APPENDIX A

Fourth Quarter 2010 Meteorological Data

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TOA5	Met 1	CR3000	2397	CR3000.Std.07	CPU:Energ	47662	HrlyData													
TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/1/2010 0:00	17122	1_60	2010	274	0	3.281312	130.624	7.387693	1.023	4.071	11.59	9.63	13.36	16.58	3.21825	0	28.54	56.64
10/1/2010 1:00	17123	1_60	2010	274	100	1.040577	124.8999	41.22477	0.055	1.02	0.105	1.114	11.01	13.54	2.534108	0	35.2	52.38
10/1/2010 2:00	17124	1_60	2010	274	200	1.273396	147.1567	22.69738	0.008	0.546	0.286	1.721	11.22	13.58	2.357074	0	34.09	52.61
10/1/2010 3:00	17125	1_60	2010	274	300	1.897545	99.25362	22.64824	-0.026	3.177	-0.06	2.993	10.23	12.72	2.491416	0	37.88	51.11
10/1/2010 4:00	17126	1_60	2010	274	400	1.345502	131.2975	20.08388	0.003	0.487	0.056	0.684	8.91	11.37	2.465177	0	41.92	48.48
10/1/2010 5:00	17127	1_60	2010	274	500	1.568644	143.0506	15.28486	-0.011	0.215	0.129	1.055	8.29	11.12	2.830548	0	44.45	47.73
10/1/2010 6:00	17128	1_60	2010	274	600	1.255762	113.1921	19.47494	0	0.111	0.001	0.092	8.92	11.6	2.683794	0	43.18	48.75
10/1/2010 7:00	17129	1_60	2010	274	700	1.081423	141.5935	24.36618	0.022	0.961	0.088	0.938	9.15	11.62	2.470607	0	43.29	49.51
10/1/2010 8:00	17130	1_60	2010	274	800	0.5500576	214.6767	24.61868	0.223	2.413	0.028	0.421	11.69	11.9	0.207494	0	40.53	54.38
10/1/2010 9:00	17131	1_60	2010	274	900	0.3019371	272.3504	41.83124	2.199	11.2	1.697	10.97	14.19	13.9	-0.2962651	0	32.51	59.84
10/1/2010 10:00	17132	1_60	2010	274	1000	0.5315116	344.2805	46.67484	1.492	19.84	0.577	18.81	17.82	17.43	-0.3894096	0	24.55	66.9
10/1/2010 11:00	17133	1_60	2010	274	1100	1.207746	308.3585	44.45538	-1.527	21.63	-2.673	21.98	20.03	19.52	-0.5080945	0	22.4	69.71
10/1/2010 12:00	17134	1_60	2010	274	1200	0.7179078	284.3235	60.04822	-5.368	29.73	-5.497	29.65	22.86	22.36	-0.503428	0	18.07	75.33
10/1/2010 13:00	17135	1_60	2010	274	1300	0.8250014	77.7906	66.894	-2.242	34.08	-2.869	33.89	26.21	25.66	-0.558368	0	14.91	81.6
10/1/2010 14:00	17136	1_60	2010	274	1400	1.471484	33.01908	54.52367	4.728	27.34	-0.148	28.77	29.52	28.88	-0.6380503	0	9.88	86.7
10/1/2010 15:00	17137	1_60	2010	274	1500	2.007375	23.8971	53.48348	5.288	30.39	0.606	31.83	30.76	30.02	-0.7445704	0	8.21	89
10/1/2010 16:00	17138	1_60	2010	274	1600	4.01825	6.808464	23.72794	11.23	29.97	-6.02	32.32	30.85	30.24	-0.6144546	0	8.51	88.1
10/1/2010 17:00	17139	1_60	2010	274	1700	4.704987	5.727719	18.41029	10.93	25.52	-11.57	29.23	29.79	29.45	-0.347985	0	8.11	86.1
10/1/2010 18:00	17140	1_60	2010	274	1800	5.427719	350.6815	14.77963	12.63	27.76	-8.01	29.52	27.88	28.16	0.2843937	0	8.11	82.7
10/1/2010 19:00	17141	1_60	2010	274	1900	2.899403	298.7588	11.34065	2.373	12.8	0.083	12.62	23.75	25.63	1.879758	0	9.57	75.33
10/1/2010 20:00	17142	1_60	2010	274	2000	1.015122	284.9568	35.2399	-0.006	2.723	0.157	2.885	19.8	23.41	3.609177	0	12.74	68.56
10/1/2010 21:00	17143	1_60	2010	274	2100	1.540856	152.2928	22.94149	0.11	2.751	0.263	3.186	18.04	21.53	3.49101	0	14.94	65.86
10/1/2010 22:00	17144	1_60	2010	274	2200	1.917426	147.0056	18.09652	-0.015	1.82	0.183	3.105	15.4	19.34	3.933632	0	18.25	60.66
10/1/2010 23:00	17145	1_60	2010	274	2300	2.611794	115.4067	14.68854	0.366	2.666	4.862	10.39	13.22	17.1	3.877625	0	21.44	56.64
10/2/2010 0:00	17146	1_60	2010	275	0	2.961	128.9678	14.33026	1.867	7.599	8.95	11.07	12.55	15.15	2.601063	0	24.41	55.18
10/2/2010 1:00	17147	1_60	2010	275	100	3.927999	129.1444	6.856802	2.967	6.243	16.54	10.3	13.02	15.72	2.698235	0	25.28	55.87
10/2/2010 2:00	17148	1_60	2010	275	200	3.969372	128.2666	6.871974	5.155	9.67	16.83	11.15	11.79	14.11	2.320209	0	26.87	53.87
10/2/2010 3:00	17149	1_60	2010	275	300	3.057537	137.1835	16.23712	3.001	9.82	11.69	12.33	11.77	13.87	2.104422	0	26.91	53.71
10/2/2010 4:00	17150	1_60	2010	275	400	1.790256	86.36077	28.1963	3.64	9.42	8.09	13.44	9.94	11.64	1.698377	0	30.73	50.38
10/2/2010 5:00	17151	1_60	2010	275	500	1.797562	112.1673	35.81083	-0.009	0.752	0.309	2.067	7.626	9.81	2.1837	0	36.54	46.28
10/2/2010 6:00	17152	1_60	2010	275	600	2.34183	120.7888	10.55924	0.068	1.389	0.334	2.336	6.739	10.09	3.355814	0	38.34	44.79
10/2/2010 7:00	17153	1_60	2010	275	700	1.728052	138.4135	16.1694	-0.012	0.977	0.003	1.097	6.974	9.86	2.890888	0	38.73	45.21
10/2/2010 8:00	17154	1_60	2010	275	800	1.013731	285.9796	48.28753	0.794	6.549	1.278	7.565	10.9	10.86	-0.04051857	0	31.97	53.19
10/2/2010 9:00	17155	1_60	2010	275	900	1.171877	321.5612	25.52661	3.678	16.23	1.316	16.9	14.5	14.11	-0.3898402	0	24.66	59.79
10/2/2010 10:00	17156	1_60	2010	275	1000	1.206183	282.1338	32.29289	4.971	31.44	6.651	30.89	17.57	16.98	-0.5861353	0	19.14	65.53
10/2/2010 11:00	17157	1_60	2010	275	1100	1.139566	287.0391	45.92459	5.936	30.07	6.574	31.65	20.5	19.82	-0.6729251	0	15.8	70.97
10/2/2010 12:00	17158	1_60	2010	275	1200	1.393092	298.2561	44.1048	3.879	29.71	2.87	28.73	23.61	22.8	-0.8156766	0	13.38	76.46
10/2/2010 13:00	17159	1_60	2010	275	1300	1.681912	301.7914	28.59935	0.253	33.26	-3.655	33.57	26.55	25.79	-0.7585124	0	11.3	81.3
10/2/2010 14:00	17160	1_60	2010	275	1400	1.680491	259.9312	40.28352	1.356	28.83	3.878	30.41	28.99	28.09	-0.8994371	0	9.54	85.4
10/2/2010 15:00	17161	1_60	2010	275	1500	2.821738	278.2472	51.38335	1.766	33.76	4.623	35.24	30.01	29.08	-0.9213583	0	8.7	86.9
10/2/2010 16:00	17162	1_60	2010	275	1600	3.163491	301.2686	16.56247	-0.184	25.61	-1.6	27.41	30.05	29.3	-0.7430074	0	8.79	86.5
10/2/2010 17:00	17163	1_60	2010	275	1700	2.120414	322.8359	24.86886	2.204	17.06	-1.535	18.38	29.34	29.02	-0.3147544	0	8.99	85.9
10/2/2010 18:00	17164	1_60	2010	275	1800	2.783133	329.9145	22.94639	6.048	12.44	-0.099	12.24	26.8	27.53	0.7261031	0	10.35	81.2
10/2/2010 19:00	17165	1_60	2010	275	1900	1.566689	251.6155	32.27684	1.214	12.22	2.359	11.35	22.37	24.87	2.500143	0	12.7	72.92
10/2/2010 20:00	17166	1_60	2010	275	2000	1.840184	176.1287	40.12341	0.096	2.039	0.399	2.625	20.11	24.2	4.088647	0	14.73	69.29
10/2/2010 21:00	17167	1_60	2010	275	2100	1.231184	165.4323	14.19177	-0.019	1.577	0.65	2.639	17.94	22.41	4.464786	0	17.81	65.36
10/2/2010 22:00	17168	1_60	2010	275	2200	0.9304429	125.1574	27.63251	-0.006	0.317	-0.005	1.053	15.73	19.44	3.715078	0	21.44	61.01
10/2/2010 23:00	17169	1_60	2010	275	2300	1.801604	129.2102	22.87152	0.568	4.418	1.976	6.664	14.01	17.75	3.74047	0	24.67	57.61
10/3/2010 0:00	17170	1_60	2010	276	0	1.568164	138.6416	31.14517	0.353	3.308	0.98	4.094	13.47	16.31	2.84059	0	25.62	57.06
10/3/2010 1:00	17171	1_60	2010	276	100	2.238521	118.7433	20.62775	0.508	3.498	2.326	5.592	12.27	14.86	2.584958	0	29.07	54.67
10/3/2010 2:00	17172	1_60	2010	276	200	2.743489	123.5131	32.02426	0.981	5.748	4.962	9.72	11.61	13.88	2.264037	0	30.13	53.45
10/3/2010 3:00	17173	1_60	2010	276	300	2.012444	134.9334	57.67346	-0.184	7.058	0.613	7.804	8.93	11.27	2.343601	0	37.7	48.47
10/3/2010 4:00	17174	1_60	2010	276	400	1.151055	158.9799	43.44889	-0.109	5.344	0.783	6.641	9.95	12.3	2.345565	0	33.92	50.49
10/3/2010 5:00	17175	1_60	2010	276	500	1.132455	162.6023	32.00985	-0.025	0.489	0.188	1.097	8.98	11	2.023114	0	36.87	48.7
10/3/2010 6:00	17176	1_60	2010	276	600	1.825821	111.0834	34.36623	0.068	1.222	0.568	2.858	6.948	9.52	2.56711	0	44.35	44.94
10/3/2010 7:00	17177	1_60	2010	276	700	2.207508	109.3455	14.34397	0.325	2.221	0.142	1.855	7.745	9.71	1.963104	0	44.01	46.49
10/3/2010 8:00	17178	1_60	2010	276	800	1.117921	28.44585	21.20712	0.693	5.987	0.102	5.717	11.79	11.57	-0.222541	0	35.01	55.09
10/3/2010 9:00	17179	1_60	2010	276	900	1.516566	286.8593	16.98806	1.452	19.21	2.671	20.36	14.74	14.23	-0.5014747	0	29.06	59.71
10/3/2010 10:00	17180	1_60	2010	276	1000	1.322634	308.2198	34.29309	0.898	24.7	-1.442	26.37	17.74	17.2	-0.5452489	0	23.76	65.68
10/3/2010 11:00	17181	1_60	2010	276	1100	1.290322	302.7224	35.72947	1.111	29.52	-1.517	30.9	20.83	20.19	-0.6330698	0	20.69	71.43
10/3/2010 12:00	17182	1_60	2010	276	1200	1.305537	325.1874	54.01232	-1.24	31.95	-5.574	30.64	23.83	23.12	-0.7063865	0	20.37	76.82
10/3/2010 13:00	17183	1_60	2010	276	1300	2.246536	328.1173	34.58184	2.214	34.82	-4.199	34.48	26.08	25.18	-0.901278	0	19.81	80.3
10/3/2010 14:00	17184	1_60	2010	276	1400	2.032862	328.5161	43.2993	1.399	34.62	-3.751	35.79	27.13	26.34	-0.786725	0	17.99	82.1
10/3/2010 15:00	17185	1_60	2010	276	1500	3.199569	217.1639	33.4095	2.352	33.51	16.41	37.73	28.52	27.34	-1.181697	0	14.67	83.6
10/3/2010 16:00	17186	1_60	2010	276	1600	6.378555	225.4941	14.53825	2.854	37.78	37.15	40.6	28.42	27.25	-1.171779	0	17.4	83.1
10/3/2010 17:00	17187	1_60	2010	276	1700	8.930268	178.4007	11.5856	7.892	49.35	67.66	51.48	25.3	24.79	-0.5101777	0	22.66	77.44
10/3/2010 18:00	17188	1_60	2010	276	1800	8.046739	159.306	9.755024	9.87	43.94	58.59	46.19	22.15	22.08	-0.06983691	0	28.26	71.88
10/3/2010 19:00	17189	1_60	2010	276	1900	6.363662	174.6488	32.4492	3.698	39.5	40.36	48.18	20.81	20.86	0.04823336	0	31.62	69.48
10/3/2010 20:00	17190	1_60	2010	276	2000	3.641191	333.4785	25.18669	8	20.37	-0.913	20.36	19.76	19.89	0.1295056	0	37.22	67.71
10/3/2010 21:00	17191	1_60	2010	276	2100	1.958812	47.46104	49.34726	1.447	8.1	1.868	10.1	17.33	17.91	0.584385	0	47.79	63.42
10/3/2010 22:00	17192	1_60	2010	276	2200	2.353294	136.8779	36.12685	0.046	8.63	4.284	10.55	15.55	16.59	1.039506	0	53.35	60.04
10/3/2010 23:00	17193	1_60	2010	276	2300	6.003347	263.8541	19.59756	1.458	33.91	20.04	38.61	17.11	17.36	0.2550134	0	51.35	62.82

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TOA5	Met 1	CR3000	2397	CR3000.Std.07	CPU:Energ								
TIMESTAMP	RECORD	HRLY_ARI	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg	
TS	RN					inHg	W/m²	in	m/s	Deg		Volts	
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg	
10/1/2010 0:00	17122	1_60	2010	274	0	24.72	0.043	7.361	4.915	145.3	2311	13.23	
10/1/2010 1:00	17123	1_60	2010	274	100	24.73	0.035	7.355	2.219	59.1	24	13.27	
10/1/2010 2:00	17124	1_60	2010	274	200	24.74	0.062	7.35	2.082	90	129	13.3	
10/1/2010 3:00	17125	1_60	2010	274	300	24.74	0.072	7.344	3.413	92.7	248	13.32	
10/1/2010 4:00	17126	1_60	2010	274	400	24.75	0.067	7.338	3.413	101.6	300	13.34	
10/1/2010 5:00	17127	1_60	2010	274	500	24.77	0.065	7.335	2.594	134.6	435	13.36	
10/1/2010 6:00	17128	1_60	2010	274	600	24.78	0.127	7.332	2.321	117.6	512	13.37	
10/1/2010 7:00	17129	1_60	2010	274	700	24.79	40.52	7.329	1.673	158.3	613	13.37	
10/1/2010 8:00	17130	1_60	2010	274	800	24.8	137.3	7.326	1.092	199.6	719	13.33	
10/1/2010 9:00	17131	1_60	2010	274	900	24.81	300.1	7.324	1.434	203.9	834	13.28	
10/1/2010 10:00	17132	1_60	2010	274	1000	24.81	468.1	7.323	1.809	18.83	939	13.18	
10/1/2010 11:00	17133	1_60	2010	274	1100	24.8	489.6	7.32	2.799	309.3	1039	13.11	
10/1/2010 12:00	17134	1_60	2010	274	1200	24.78	577.4	7.318	1.911	316	1100	13.05	
10/1/2010 13:00	17135	1_60	2010	274	1300	24.75	809	7.315	2.15	126.9	1226	13	
10/1/2010 14:00	17136	1_60	2010	274	1400	24.73	706.5	7.311	3.482	56.03	1332	12.94	
10/1/2010 15:00	17137	1_60	2010	274	1500	24.71	712.1	7.301	5.7	51.54	1450	12.91	
10/1/2010 16:00	17138	1_60	2010	274	1600	24.71	468.7	7.284	8.36	2.322	1515	12.9	
10/1/2010 17:00	17139	1_60	2010	274	1700	24.71	267.8	7.259	9.39	8.31	1601	12.91	
10/1/2010 18:00	17140	1_60	2010	274	1800	24.71	60.18	7.234	8.98	337.9	1740	12.94	
10/1/2010 19:00	17141	1_60	2010	274	1900	24.73	0.385	7.209	7.236	329.5	1805	12.99	
10/1/2010 20:00	17142	1_60	2010	274	2000	24.74	0.021	7.196	2.799	303.3	1907	13.06	
10/1/2010 21:00	17143	1_60	2010	274	2100	24.75	0.031	7.185	3.14	89.3	2033	13.12	
10/1/2010 22:00	17144	1_60	2010	274	2200	24.76	0.024	7.172	3.857	127.7	2137	13.18	
10/1/2010 23:00	17145	1_60	2010	274	2300	24.76	0.042	7.161	5.7	139.5	2259	13.22	
10/2/2010 0:00	17146	1_60	2010	275	0	24.77	0.019	7.153	5.188	139.1	2300	13.25	
10/2/2010 1:00	17147	1_60	2010	275	100	24.77	0.059	7.148	5.222	116.1	59	13.28	
10/2/2010 2:00	17148	1_60	2010	275	200	24.77	0.068	7.141	5.837	131.4	146	13.29	
10/2/2010 3:00	17149	1_60	2010	275	300	24.78	0.069	7.136	5.837	119.7	216	13.3	
10/2/2010 4:00	17150	1_60	2010	275	400	24.79	0.061	7.133	4.745	144	309	13.32	
10/2/2010 5:00	17151	1_60	2010	275	500	24.8	0.049	7.131	2.799	104.2	457	13.35	
10/2/2010 6:00	17152	1_60	2010	275	600	24.8	0.074	7.127	3.379	104.7	507	13.39	
10/2/2010 7:00	17153	1_60	2010	275	700	24.81	34.47	7.123	3.516	91.5	605	13.41	
10/2/2010 8:00	17154	1_60	2010	275	800	24.82	207	7.121	2.116	92.9	710	13.36	
10/2/2010 9:00	17155	1_60	2010	275	900	24.81	402.6	7.117	2.321	320.7	810	13.26	
10/2/2010 10:00	17156	1_60	2010	275	1000	24.81	576	7.114	3.106	273.6	956	13.17	
10/2/2010 11:00	17157	1_60	2010	275	1100	24.79	703.9	7.112	3.243	289.6	1038	13.09	
10/2/2010 12:00	17158	1_60	2010	275	1200	24.76	772.1	7.107	3.55	286.8	1125	13.03	
10/2/2010 13:00	17159	1_60	2010	275	1300	24.74	780.4	7.101	3.55	305.4	1214	12.98	
10/2/2010 14:00	17160	1_60	2010	275	1400	24.71	721.6	7.093	3.891	317.7	1301	12.94	
10/2/2010 15:00	17161	1_60	2010	275	1500	24.69	602	7.079	6.827	265.6	1437	12.92	
10/2/2010 16:00	17162	1_60	2010	275	1600	24.67	435.1	7.054	6.11	293.9	1503	12.91	
10/2/2010 17:00	17163	1_60	2010	275	1700	24.66	236.2	7.036	4.71	350.3	1644	12.92	
10/2/2010 18:00	17164	1_60	2010	275	1800	24.67	51.68	7.016	5.12	337.6	1729	12.95	
10/2/2010 19:00	17165	1_60	2010	275	1900	24.68	0.28	6.998	3.209	328.9	1803	13	
10/2/2010 20:00	17166	1_60	2010	275	2000	24.69	0.027	6.985	2.97	111.7	1942	13.07	
10/2/2010 21:00	17167	1_60	2010	275	2100	24.69	0.026	6.973	3.243	158.7	2012	13.12	
10/2/2010 22:00	17168	1_60	2010	275	2200	24.71	0.017	6.961	2.253	112.1	2112	13.17	
10/2/2010 23:00	17169	1_60	2010	275	2300	24.71	0.04	6.952	4.164	128	2254	13.21	
10/3/2010 0:00	17170	1_60	2010	276	0	24.72	0.022	6.946	4.779	112.9	2355	13.24	
10/3/2010 1:00	17171	1_60	2010	276	100	24.73	0.044	6.94	4.335	114.6	1	13.27	
10/3/2010 2:00	17172	1_60	2010	276	200	24.73	0.062	6.935	4.847	34.25	156	13.29	
10/3/2010 3:00	17173	1_60	2010	276	300	24.73	0.058	6.929	3.994	34.83	200	13.32	
10/3/2010 4:00	17174	1_60	2010	276	400	24.74	0.067	6.924	2.628	273.7	335	13.35	
10/3/2010 5:00	17175	1_60	2010	276	500	24.75	0.064	6.92	2.833	154.4	427	13.36	
10/3/2010 6:00	17176	1_60	2010	276	600	24.77	0.091	6.917	2.935	105.3	523	13.38	
10/3/2010 7:00	17177	1_60	2010	276	700	24.77	30.02	6.913	4.301	95.3	634	13.39	
10/3/2010 8:00	17178	1_60	2010	276	800	24.79	194.6	6.91	2.799	70.65	709	13.35	
10/3/2010 9:00	17179	1_60	2010	276	900	24.78	389.6	6.907	2.935	302.2	802	13.25	
10/3/2010 10:00	17180	1_60	2010	276	1000	24.77	563.1	6.905	2.697	281.1	921	13.16	
10/3/2010 11:00	17181	1_60	2010	276	1100	24.74	687	6.904	3.004	298	1053	13.08	
10/3/2010 12:00	17182	1_60	2010	276	1200	24.71	758.2	6.902	3.55	336.9	1126	13.02	
10/3/2010 13:00	17183	1_60	2010	276	1300	24.67	772.2	6.893	6.281	343	1231	12.97	
10/3/2010 14:00	17184	1_60	2010	276	1400	24.64	716.5	6.887	5.871	268.7	1358	12.94	
10/3/2010 15:00	17185	1_60	2010	276	1500	24.62	607.1	6.869	6.588	247.7	1404	12.93	
10/3/2010 16:00	17186	1_60	2010	276	1600	24.62	488.1	6.852	11.4	233.1	1551	12.93	
10/3/2010 17:00	17187	1_60	2010	276	1700	24.65	206.5	6.826	14.81	199.4	1604	12.94	
10/3/2010 18:00	17188	1_60	2010	276	1800	24.67	31.63	6.797	12.94	174.9	1740	13	
10/3/2010 19:00	17189	1_60	2010	276	1900	24.69	0.182	6.768	12.94	159	1805	13.04	
10/3/2010 20:00	17190	1_60	2010	276	2000	24.7	0.018	6.751	7.612	12.89	1940	13.08	
10/3/2010 21:00	17191	1_60	2010	276	2100	24.7	0.035	6.74	4.881	19.68	2029	13.11	
10/3/2010 22:00	17192	1_60	2010	276	2200	24.72	0.037	6.732	4.096	154.8	2103	13.15	
10/3/2010 23:00	17193	1_60	2010	276	2300	24.73	0.037	6.722	10.85	258.3	2211	13.17	

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
10/4/2010 0:00	17194	1_60	2010	277	0	3.059554	266.1186	33.99074	1.814	18.94	8.16	25.01	16.23	16.37	0.1410384	0	57.66	61.27
10/4/2010 1:00	17195	1_60	2010	277	100	3.099462	111.579	13.83602	3.753	11.97	7.675	14.99	15.29	15.94	0.6429656	0	63.95	59.84
10/4/2010 2:00	17196	1_60	2010	277	200	3.589643	121.0534	15.15524	6.395	19.76	10.75	19.71	14.98	15.82	0.8379377	0	59.1	59.13
10/4/2010 3:00	17197	1_60	2010	277	300	2.508449	160.9512	19.2643	3.582	9.92	6.912	11.16	14.49	15.28	0.7847841	0	58.82	58.24
10/4/2010 4:00	17198	1_60	2010	277	400	1.408142	279.1147	63.82756	-0.3	3.255	-0.121	4.175	12.53	13.59	1.054524	0	70.01	55.02
10/4/2010 5:00	17199	1_60	2010	277	500	1.171822	180.3443	59.46387	0.158	3.123	0.46	4.377	11.54	13.11	1.573385	0	74.08	52.93
10/4/2010 6:00	17200	1_60	2010	277	600	1.464989	124.9469	27.22831	0.23	3.437	0.075	3.351	10.04	12.02	1.980145	0	75.89	50.51
10/4/2010 7:00	17201	1_60	2010	277	700	1.316721	133.2348	32.60694	0.052	1.884	0.08	2.191	9.09	11.04	1.9497	0	78.42	48.99
10/4/2010 8:00	17202	1_60	2010	277	800	0.4003581	162.9739	50.41486	2.842	9.49	2.257	7.296	13.27	12.98	-0.2890302	0	62.06	58.29
10/4/2010 9:00	17203	1_60	2010	277	900	1.183427	320.4606	22.14768	4.204	21.36	1.351	19.29	15.78	15.27	-0.5069833	0	54.82	62.48
10/4/2010 10:00	17204	1_60	2010	277	1000	1.644538	293.8283	30.37139	2.388	24.51	2.831	23.85	17.65	17.05	-0.5924968	0	46.84	64.9
10/4/2010 11:00	17205	1_60	2010	277	1100	1.904918	341.9821	39.97359	7.492	31.62	2.282	30.5	20.4	19.56	-0.8396938	0	37.7	70.07
10/4/2010 12:00	17206	1_60	2010	277	1200	4.563506	230.0229	37.16494	0.349	40.53	20.08	45.17	23.49	22.27	-1.222464	0	28.2	74.45
10/4/2010 13:00	17207	1_60	2010	277	1300	5.630843	216.7999	23.5985	1.697	45.95	33.42	51.37	24.83	23.39	-1.439671	0	23.64	76.6
10/4/2010 14:00	17208	1_60	2010	277	1400	5.068808	207.8122	21.72832	7.274	44.05	37.08	47.96	25.49	24.04	-1.449227	0	21.43	77.69
10/4/2010 15:00	17209	1_60	2010	277	1500	6.252973	226.8112	18.95656	0.83	44.98	33.17	48.09	25.41	24.12	-1.290419	0	21.09	77.67
10/4/2010 16:00	17210	1_60	2010	277	1600	6.184904	211.4732	18.63444	-0.651	38.45	34.74	41.68	24.58	23.73	-0.8507977	0	21.5	76.17
10/4/2010 17:00	17211	1_60	2010	277	1700	11.54624	187.9186	12.37578	10.09	65.94	97.2	70.05	20.55	20.29	-0.2605819	0	28.88	68.94
10/4/2010 18:00	17212	1_60	2010	277	1800	7.421159	201.7394	13.76392	5.814	40.15	54.78	41.72	21.01	21.06	0.04604306	0	23.62	69.91
10/4/2010 19:00	17213	1_60	2010	277	1900	4.461283	286.7988	21.72648	1.454	23.74	8.3	27	17.42	17.68	0.2609066	0	42.46	63.55
10/4/2010 20:00	17214	1_60	2010	277	2000	2.319544	189.1264	28.64596	0.062	3.036	5.444	9.99	14.56	15.94	1.386532	0	50.93	58.36
10/4/2010 21:00	17215	1_60	2010	277	2100	2.566575	136.1119	26.71741	0.981	4.599	2.809	5.795	13.57	14.96	1.396119	0	53.04	56.79
10/4/2010 22:00	17216	1_60	2010	277	2200	1.666693	121.6819	37.35739	0.067	4.733	-0.053	6.29	12.49	14.45	1.955778	0	56.03	54.89
10/4/2010 23:00	17217	1_60	2010	277	2300	2.120418	326.2513	38.64648	0.17	5.341	0.911	6.55	11.3	13.26	1.96138	0	60.38	52.48
10/5/2010 0:00	17218	1_60	2010	278	0	1.679952	109.0708	30.42728	0.136	1.739	0.258	2.103	11.26	13.27	2.011607	0	60.84	52.4
10/5/2010 1:00	17219	1_60	2010	278	100	2.293954	124.2479	14.10915	0.664	3.892	4.642	8.13	12.71	13.61	0.9010779	0	57.43	55.02
10/5/2010 2:00	17220	1_60	2010	278	200	1.818847	134.9591	43.00758	1.856	5.898	0.75	4.907	12.62	13.38	0.7616812	0	61.12	54.86
10/5/2010 3:00	17221	1_60	2010	278	300	1.661412	323.4798	30.91521	0.197	3.282	0.67	5.094	12.36	12.93	0.5783992	0	61.92	54.32
10/5/2010 4:00	17222	1_60	2010	278	400	2.307066	141.297	25.46467	3.743	11.44	6.606	14.54	12.11	13.01	0.8941799	0.03	73.58	54.09
10/5/2010 5:00	17223	1_60	2010	278	500	2.025035	148.3607	50.80075	0.293	10.64	3.393	10.39	11.33	11.99	0.6583823	0	85.5	52.46
10/5/2010 6:00	17224	1_60	2010	278	600	1.868437	9.551174	37.19244	0.339	5.698	0.033	5.126	12.17	13.13	0.9585168	0	80.3	54.12
10/5/2010 7:00	17225	1_60	2010	278	700	1.92366	291.7562	19.36139	0.408	3.29	0.406	3.227	10.47	11.47	1.000763	0	81.8	51.24
10/5/2010 8:00	17226	1_60	2010	278	800	1.24302	154.1971	52.01699	0.443	5.179	0.799	3.725	11.72	11.85	0.1315813	0	77.65	54.13
10/5/2010 9:00	17227	1_60	2010	278	900	0.6755545	296.9935	44.60444	1.049	18.51	1.193	15.9	14.98	14.58	-0.4019268	0	59.19	61.42
10/5/2010 10:00	17228	1_60	2010	278	1000	0.7865739	34.42432	47.56166	1.048	24.04	-2.142	22.95	17.32	16.9	-0.4184339	0	48.79	66.02
10/5/2010 11:00	17229	1_60	2010	278	1100	1.266885	135.4427	59.55732	-1.481	26.58	-0.538	28.75	19.52	18.96	-0.5600944	0	42	68.36
10/5/2010 12:00	17230	1_60	2010	278	1200	1.952247	315.7576	24.23589	3.59	22.28	1.338	23.29	20.8	20.32	-0.4830346	0	36.35	70.06
10/5/2010 13:00	17231	1_60	2010	278	1300	3.575517	254.3111	25.12373	1.013	29.3	13.3	34.49	21.81	21.16	-0.6517571	0	32.19	71.57
10/5/2010 14:00	17232	1_60	2010	278	1400	2.830667	243.6564	30.50905	-0.066	29.16	7.883	29.14	22.08	21.56	-0.5167388	0	31.29	72.01
10/5/2010 15:00	17233	1_60	2010	278	1500	3.202953	89.23495	49.52053	7.919	23.84	8.41	25.92	20.84	20.51	-0.3332475	0	42.54	70
10/5/2010 16:00	17234	1_60	2010	278	1600	1.884125	43.06467	37.30373	3.695	16.85	-1.546	17.2	21.31	20.82	-0.4860086	0	35.81	71.05
10/5/2010 17:00	17235	1_60	2010	278	1700	2.5943	25.69837	13.35326	5.931	14.11	-3.198	14.83	21.09	20.88	-0.2141908	0	37.91	70.27
10/5/2010 18:00	17236	1_60	2010	278	1800	3.712502	227.1088	37.56979	0.678	17.55	15.26	21.16	20.29	20.39	0.1035948	0	37.47	68.66
10/5/2010 19:00	17237	1_60	2010	278	1900	5.619067	255.3653	21.50583	2.556	33.5	25.64	37.47	18.53	18.59	0.06572422	0	44.55	65.44
10/5/2010 20:00	17238	1_60	2010	278	2000	2.95537	257.8201	24.26048	1.991	20.06	10.73	20.41	17.58	17.71	0.1285336	0	50.86	63.74
10/5/2010 21:00	17239	1_60	2010	278	2100	2.193341	295.0854	23.50797	-0.402	12.75	-0.655	14.52	16.91	17.18	0.2712345	0	55.67	62.56
10/5/2010 22:00	17240	1_60	2010	278	2200	2.612356	211.385	39.49595	0.564	14.81	11.32	19.09	15.25	15.67	0.4214217	0.03	69.87	59.71
10/5/2010 23:00	17241	1_60	2010	278	2300	2.326264	339.195	28.64566	5.407	13.94	0.293	13.6	13.37	13.63	0.257862	0.02	86.7	56.27
10/6/2010 0:00	17242	1_60	2010	279	0	2.04637	292.6899	24.05467	0.664	7.766	0.656	7.541	12.44	12.63	0.1814498	0	93	54.51
10/6/2010 1:00	17243	1_60	2010	279	100	1.266185	115.9653	26.00244	-0.013	0.419	0.087	0.934	11.78	12.51	0.7364223	0	93.6	53.33
10/6/2010 2:00	17244	1_60	2010	279	200	1.586253	349.4081	24.32749	0.121	3.896	0.07	4.507	12.18	12.62	0.447352	0	93.9	53.97
10/6/2010 3:00	17245	1_60	2010	279	300	1.029518	181.3384	38.84899	-0.058	1.01	-0.187	1.774	12.14	12.52	0.3734717	0	93.8	53.97
10/6/2010 4:00	17246	1_60	2010	279	400	1.920563	4.680714	30.45088	0.874	6.455	1.751	8.51	12.22	12.44	0.2210269	0.01	94.6	53.98
10/6/2010 5:00	17247	1_60	2010	279	500	3.568342	246.1101	22.49273	1.363	27.01	16.11	30.08	12.77	13.18	0.4153183	0	81.7	55.09
10/6/2010 6:00	17248	1_60	2010	279	600	2.83796	308.0901	30.10799	2.757	20.13	7.039	25.63	11.64	11.98	0.3363434	0.03	83.6	53.13
10/6/2010 7:00	17249	1_60	2010	279	700	2.136542	84.58493	24.31379	1.678	7.175	3.705	9.79	11.25	11.58	0.337185	0.01	86.5	52.39
10/6/2010 8:00	17250	1_60	2010	279	800	2.151219	145.3407	40.42242	4.496	18.42	5.593	18.55	11.57	11.5	-0.07137078	0	87.6	53.06
10/6/2010 9:00	17251	1_60	2010	279	900	1.994004	139.0748	26.4861	2.59	18.16	6.57	18.74	13.07	12.58	-0.4889012	0	77.6	56.11
10/6/2010 10:00	17252	1_60	2010	279	1000	1.510253	94.59585	44.3338	2.758	19.97	2.171	20.01	14.28	13.87	-0.4184057	0	68.78	58.86
10/6/2010 11:00	17253	1_60	2010	279	1100	2.37459	334.6337	25.30541	3.689	27.55	-2.514	27.44	16.08	15.4	-0.6793748	0	64.41	62.03
10/6/2010 12:00	17254	1_60	2010	279	1200	1.577754	310.8661	38.9966	3.396	32.71	-0.653	32.45	17.95	17.33	-0.6231231	0	56.43	65.94
10/6/2010 13:00	17255	1_60	2010	279	1300	2.481169	310.5725	25.85139	0.808	29.24	-1.875	29.37	19.82	19.05	-0.7677598	0	52.5	68.21
10/6/2010 14:00	17256	1_60	2010	279	1400	6.336439	167.4746	46.43906	4.936	53.42	36.65	59.2	24.28	23.48	-0.794915	0	26.97	75.53
10/6/2010 15:00	17257	1_60	2010	279	1500	9.257798	159.8871	12.93802	12.15	53.66	66.08	57.88	23.33	23.12	-0.2056166	0	24.55	73.97
10/6/2010 16:00	17258	1_60	2010	279	1600	6.216347	251.8485	42.91894	0.338	36.58	25.13	43.63	14.94	15.62	0.673101	0.08	62.43	59.41
10/6/2010 17:00	17259	1_60	2010	279	1700	2.232602	266.7689	33.37638	0.955	4.959	2.083	7.45	12.65	13.05	0.3977811	0.04	87.4	54.9
10/6/2010 18:00	17260	1_60	2010	279	1800	1.680584	164.0773	62.33932	1.173	4.87	4.157	10.52	12.89	13.01	0.1194199	0.1	89.3	55.35
10/6/2010 19:00	17261	1_60	2010	279	1900	2.367484	134.6409	18.95512	1.665	7.105	5.473	8.84	12.6	12.91	0.3097306	0.05	90.7	54.71
10/6/2010 20:00	17262	1_60	2010	279	2000	1.285768	248.593	44.79404	0.539	5.886	2.044	6.847	12.39	12.85	0.4557461	0	87.7	54.46
10/6/2010 21:00	17263	1_60	2010	279	2100	1.726631	283.4769	14.55891	0.028	3.471	-0.022	3.191	11.28	11.65	0.3726582	0	94.1	52.55
10/6/2010 22:00	17264	1_60	2010	279	2200	0.978627	155.8155	21.56581	-0.006	0.548	0.033	0.41	10.52	11.41	0.8949002	0	94.2	51.14
10/6/2010 23:00	17265	1_60	2010	279	2300	1.049135	132.355	10.88148	0.001	0.063	0.001	0.062	10.3	11.17	0.8663872	0	93.6	50.74

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/4/2010 0:00	17194	1_60	2010	277	0	24.73	0.061	6.716	10.34	251.8	2300	13.17
10/4/2010 1:00	17195	1_60	2010	277	100	24.74	0.051	6.715	6.144	197.4	1	13.19
10/4/2010 2:00	17196	1_60	2010	277	200	24.72	0.06	6.712	7.748	86.6	155	13.21
10/4/2010 3:00	17197	1_60	2010	277	300	24.72	0.054	6.707	7.1	96.2	200	13.22
10/4/2010 4:00	17198	1_60	2010	277	400	24.72	0.05	6.704	3.755	314.5	311	13.24
10/4/2010 5:00	17199	1_60	2010	277	500	24.73	0.066	6.702	2.867	82.5	424	13.27
10/4/2010 6:00	17200	1_60	2010	277	600	24.73	0.117	6.698	3.243	43.7	513	13.3
10/4/2010 7:00	17201	1_60	2010	277	700	24.73	28.68	6.696	2.355	87.7	629	13.33
10/4/2010 8:00	17202	1_60	2010	277	800	24.74	204.9	6.684	1.092	328.2	759	13.26
10/4/2010 9:00	17203	1_60	2010	277	900	24.74	405.8	6.676	2.697	288.5	859	13.18
10/4/2010 10:00	17204	1_60	2010	277	1000	24.74	465.8	6.676	3.55	324	959	13.13
10/4/2010 11:00	17205	1_60	2010	277	1100	24.71	687	6.676	4.335	45.17	1048	13.08
10/4/2010 12:00	17206	1_60	2010	277	1200	24.69	736	6.674	11.74	257.1	1127	13.03
10/4/2010 13:00	17207	1_60	2010	277	1300	24.66	761.3	6.667	11.61	227.7	1224	13
10/4/2010 14:00	17208	1_60	2010	277	1400	24.63	718.1	6.652	9.42	217.4	1322	12.98
10/4/2010 15:00	17209	1_60	2010	277	1500	24.62	630.9	6.628	14.13	245.7	1433	12.97
10/4/2010 16:00	17210	1_60	2010	277	1600	24.63	345.6	6.603	11.71	179.7	1559	12.97
10/4/2010 17:00	17211	1_60	2010	277	1700	24.62	123.2	6.575	19.39	202.8	1606	13.01
10/4/2010 18:00	17212	1_60	2010	277	1800	24.64	36.28	6.538	14.54	220.4	1721	13.06
10/4/2010 19:00	17213	1_60	2010	277	1900	24.65	0.165	6.518	14.34	257.5	1801	13.1
10/4/2010 20:00	17214	1_60	2010	277	2000	24.68	0.031	6.512	5.257	179.2	1954	13.15
10/4/2010 21:00	17215	1_60	2010	277	2100	24.67	0.045	6.506	4.096	109.1	2028	13.2
10/4/2010 22:00	17216	1_60	2010	277	2200	24.67	0.026	6.499	2.526	2.601	2112	13.24
10/4/2010 23:00	17217	1_60	2010	277	2300	24.68	0.059	6.494	3.686	13.01	2225	13.27
10/5/2010 0:00	17218	1_60	2010	278	0	24.68	0.071	6.489	3.174	111.7	2332	13.29
10/5/2010 1:00	17219	1_60	2010	278	100	24.7	0.045	6.485	3.584	172	33	13.28
10/5/2010 2:00	17220	1_60	2010	278	200	24.69	0.052	6.482	4.062	73.06	116	13.26
10/5/2010 3:00	17221	1_60	2010	278	300	24.7	0.057	6.481	3.55	334.2	212	13.26
10/5/2010 4:00	17222	1_60	2010	278	400	24.71	0.056 AQ		5.018	196.3	321	13.26
10/5/2010 5:00	17223	1_60	2010	278	500	24.71	0.079	6.482	4.13	140.2	410	13.28
10/5/2010 6:00	17224	1_60	2010	278	600	24.72	0.099	6.482	3.072	236.1	554	13.28
10/5/2010 7:00	17225	1_60	2010	278	700	24.74	14.32	6.482	3.584	290.5	600	13.29
10/5/2010 8:00	17226	1_60	2010	278	800	24.75	167.9	6.482	3.004	269.1	701	13.29
10/5/2010 9:00	17227	1_60	2010	278	900	24.76	393.4	6.482	1.877	335.1	833	13.22
10/5/2010 10:00	17228	1_60	2010	278	1000	24.75	552.4	6.482	2.765	85.3	957	13.14
10/5/2010 11:00	17229	1_60	2010	278	1100	24.74	423	6.482	3.447	349.9	1054	13.09
10/5/2010 12:00	17230	1_60	2010	278	1200	24.73	353.3	6.482	4.233	348.1	1145	13.07
10/5/2010 13:00	17231	1_60	2010	278	1300	24.71	375.5	6.481	6.519	203.5	1246	13.05
10/5/2010 14:00	17232	1_60	2010	278	1400	24.69	298.5	6.474	6.315	265	1350	13.04
10/5/2010 15:00	17233	1_60	2010	278	1500	24.69	226.1	6.465	6.588	266.5	1403	13.04
10/5/2010 16:00	17234	1_60	2010	278	1600	24.68	328	6.459	6.451	32.87	1550	13.06
10/5/2010 17:00	17235	1_60	2010	278	1700	24.69	102	6.45	5.461	13.05	1626	13.05
10/5/2010 18:00	17236	1_60	2010	278	1800	24.71	19.83	6.442	8.23	254.7	1753	13.07
10/5/2010 19:00	17237	1_60	2010	278	1900	24.73	0.081	6.43	10.65	252.2	1827	13.09
10/5/2010 20:00	17238	1_60	2010	278	2000	24.76	0.057	6.421	6.281	255.6	1924	13.12
10/5/2010 21:00	17239	1_60	2010	278	2100	24.77	0.051	6.416	4.608	343.3	2010	13.14
10/5/2010 22:00	17240	1_60	2010	278	2200	24.82	0.053 AQ		7.578	219	2136	13.16
10/5/2010 23:00	17241	1_60	2010	278	2300	24.8	0.059	6.414	5.803	32.02	2211	13.2
10/6/2010 0:00	17242	1_60	2010	279	0	24.79	0.055	6.414	5.222	297.2	2310	13.23
10/6/2010 1:00	17243	1_60	2010	279	100	24.82	0.064	6.414	2.185	169.4	3	13.25
10/6/2010 2:00	17244	1_60	2010	279	200	24.82	0.071	6.414	3.686	352.9	126	13.26
10/6/2010 3:00	17245	1_60	2010	279	300	24.83	0.071	6.414	2.219	169.9	211	13.26
10/6/2010 4:00	17246	1_60	2010	279	400	24.84	0.069	6.414	5.188	259	355	13.26
10/6/2010 5:00	17247	1_60	2010	279	500	24.86	0.062 AQ		10.21	226.6	457	13.25
10/6/2010 6:00	17248	1_60	2010	279	600	24.87	0.065 AQ		9.08	271.2	512	13.26
10/6/2010 7:00	17249	1_60	2010	279	700	24.86	2.386 AQ		5.53	112.9	657	13.28
10/6/2010 8:00	17250	1_60	2010	279	800	24.87	136.9 AQ		10.48	54.56	703	13.28
10/6/2010 9:00	17251	1_60	2010	279	900	24.87	325.9	6.434	4.642	121.8	840	13.21
10/6/2010 10:00	17252	1_60	2010	279	1000	24.85	407.4	6.434	4.233	97.4	907	13.2
10/6/2010 11:00	17253	1_60	2010	279	1100	24.82	676.8	6.434	4.779	319.6	1016	13.15
10/6/2010 12:00	17254	1_60	2010	279	1200	24.78	665.7	6.434	4.198	316.5	1151	13.1
10/6/2010 13:00	17255	1_60	2010	279	1300	24.72	618.4	6.434	4.881	337.7	1229	13.07
10/6/2010 14:00	17256	1_60	2010	279	1400	24.69	580.6	6.434	15.36	157.6	1338	13.03
10/6/2010 15:00	17257	1_60	2010	279	1500	24.75	172.2	6.428	22.77	152.3	1456	13.02
10/6/2010 16:00	17258	1_60	2010	279	1600	24.77	3.946 AQ		17	243.3	1529	13.09
10/6/2010 17:00	17259	1_60	2010	279	1700	24.76	21.25 AQ		5.188	155.7	1656	13.15
10/6/2010 18:00	17260	1_60	2010	279	1800	24.75	59.36 AQ		6.383	162.5	1730	13.21
10/6/2010 19:00	17261	1_60	2010	279	1900	24.75	0.161 AQ		4.608	111.4	1832	13.24
10/6/2010 20:00	17262	1_60	2010	279	2000	24.76	0.064 AQ		3.004	141.7	1916	13.25
10/6/2010 21:00	17263	1_60	2010	279	2100	24.76	0.069	6.549	3.447	306.4	2010	13.27
10/6/2010 22:00	17264	1_60	2010	279	2200	24.77	0.092	6.549	2.253	115.5	2148	13.29
10/6/2010 23:00	17265	1_60	2010	279	2300	24.77	0.11	6.548	1.57	87.8	2236	13.3

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
10/7/2010 0:00	17266	1_60	2010	280	0	1.35593	132.8729	6.712986	0	0.028	0.002	0.071	9.86	10.83	0.9757202	0	94.4	49.96
10/7/2010 1:00	17267	1_60	2010	280	100	0.7444703	118.3051	38.62278	-0.01	0.223	0.084	1.029	9.44	10.5	1.061788	0	93.6	49.22
10/7/2010 2:00	17268	1_60	2010	280	200	0.833679	192.5542	6.426925	0	0.011	0	0.043	9.17	10.26	1.090347	0	94.1	48.62
10/7/2010 3:00	17269	1_60	2010	280	300	0.6091629	65.97795	47.68577	-0.003	1.518	-0.054	1.154	8.67	9.48	0.815125	0	94.3	47.87
10/7/2010 4:00	17270	1_60	2010	280	400	0.812341	218.3414	62.44279	0.007	1.562	-0.068	1.645	7.767	8.95	1.185317	0	95.3	46.16
10/7/2010 5:00	17271	1_60	2010	280	500	1.12546	130.9612	45.21601	-0.097	4.1	-0.506	4.961	7.948	8.9	0.9563736	0.01	96.4	46.44
10/7/2010 6:00	17272	1_60	2010	280	600	2.082845	125.3777	18.28584	0.116	1.82	1.749	4.637	7.824	8.87	1.046754	0	96.4	46.3
10/7/2010 7:00	17273	1_60	2010	280	700	1.275758	87.59136	42.16201	0.74	4.215	0.398	3.292	7.447	8.38	0.9343885	0	96.3	46.07
10/7/2010 8:00	17274	1_60	2010	280	800	1.025334	184.6312	52.23697	0.07	3.819	-0.194	3.616	9.03	9.21	0.1832246	0	94.6	49.3
10/7/2010 9:00	17275	1_60	2010	280	900	0.7163985	325.4994	36.18634	1.316	6.909	0.58	5	11.26	11.03	-0.2320615	0	89.1	53.59
10/7/2010 10:00	17276	1_60	2010	280	1000	0.6076583	258.5014	41.48784	-0.083	11.77	0.99	12.39	12.85	12.56	-0.2966897	0	79.61	56.8
10/7/2010 11:00	17277	1_60	2010	280	1100	1.100142	292.8708	40.86446	0.295	22.47	0.481	20.44	15.71	15.23	-0.483729	0	67.57	62.12
10/7/2010 12:00	17278	1_60	2010	280	1200	4.019097	235.0301	34.07994	-2.65	44.29	16.23	48.12	20.89	20.29	-0.6015127	0	47.69	69.78
10/7/2010 13:00	17279	1_60	2010	280	1300	7.674946	197.9227	26.64836	0.868	56.46	48.32	60.38	24.22	23.49	-0.7271804	0	28.41	75.54
10/7/2010 14:00	17280	1_60	2010	280	1400	5.947403	175.4806	21.83123	3.155	49.42	37.87	56.36	23.38	22.98	-0.4053135	0	29.47	74.07
10/7/2010 15:00	17281	1_60	2010	280	1500	5.555174	191.0579	22.38364	0.39	45.29	33.48	52.53	21.13	21.33	0.2004212	0.01	35.53	70.29
10/7/2010 16:00	17282	1_60	2010	280	1600	3.476133	199.2438	21.73847	1.582	30.24	20.75	32.4	21.81	21.7	-0.1131787	0	35.9	71.46
10/7/2010 17:00	17283	1_60	2010	280	1700	4.577098	169.0589	19.5369	3.657	32.48	28.83	34.9	22.75	22.62	-0.1351113	0	31.45	72.99
10/7/2010 18:00	17284	1_60	2010	280	1800	4.625278	134.9088	12.17091	9.05	21.22	24.13	22.98	19.57	19.83	0.2648348	0	44.57	67.52
10/7/2010 19:00	17285	1_60	2010	280	1900	4.174595	111.124	7.905603	7.643	14.21	10.31	14.04	16.6	17.3	0.6972612	0	55.28	62.05
10/7/2010 20:00	17286	1_60	2010	280	2000	3.563511	116.6397	13.78404	3.678	15.38	7.756	17.17	16.04	17.02	0.9817522	0	55.27	61.09
10/7/2010 21:00	17287	1_60	2010	280	2100	1.801321	158.8745	46.87305	1.523	14.25	6.089	15.35	16.24	18.08	1.840149	0	44.5	61.56
10/7/2010 22:00	17288	1_60	2010	280	2200	2.25882	144.8224	33.03526	2.23	19.7	8.42	23.87	15.86	17.6	1.736331	0	37.56	60.86
10/7/2010 23:00	17289	1_60	2010	280	2300	3.429191	163.2335	16.38225	1.753	14.75	18	18.99	14.68	16.69	2.00829	0	37.45	58.94
10/8/2010 0:00	17290	1_60	2010	281	0	5.01394	181.4492	11.51684	4.016	18.68	36.04	20.45	14.83	15.96	1.13294	0	36.32	59.03
10/8/2010 1:00	17291	1_60	2010	281	100	4.619595	239.6669	8.418525	2.263	13.83	22.54	14.99	13.66	14.69	1.02961	0	43.14	56.81
10/8/2010 2:00	17292	1_60	2010	281	200	3.848353	252.424	10.12575	1.743	14.96	14.48	16.93	13.73	14.58	0.855462	0	41.39	57.02
10/8/2010 3:00	17293	1_60	2010	281	300	2.619788	241.2495	13.60586	-0.069	4.695	6.736	9.62	11.04	13.15	2.106701	0	50.71	52.38
10/8/2010 4:00	17294	1_60	2010	281	400	1.386323	127.9742	37.8142	-0.601	12.79	1.784	13.8	9.36	11.11	1.748502	0	58.23	49.12
10/8/2010 5:00	17295	1_60	2010	281	500	0.7837822	138.8951	41.25719	0.486	8.6	1.04	7.52	10.1	11.6	1.500918	0	47.98	50.55
10/8/2010 6:00	17296	1_60	2010	281	600	1.302494	94.88316	31.12439	0.932	14.92	1.657	14.25	8.37	10.35	1.983742	0	54.25	47.6
10/8/2010 7:00	17297	1_60	2010	281	700	1.507292	141.8736	41.12644	-0.477	5.818	0.435	6.577	8.07	9.76	1.685672	0	55.55	47.34
10/8/2010 8:00	17298	1_60	2010	281	800	1.588991	97.54193	15.59305	1.353	9.19	1.249	8.24	9.41	9.12	-0.2815164	0	59.24	50.21
10/8/2010 9:00	17299	1_60	2010	281	900	1.720998	340.8261	33.41071	2.745	23.06	1.714	24.52	13.21	12.75	-0.4594471	0	36.7	57.05
10/8/2010 10:00	17300	1_60	2010	281	1000	2.677979	225.0925	35.01969	4.598	30.4	16.86	33	14.59	13.78	-0.8164875	0	32.19	59.34
10/8/2010 11:00	17301	1_60	2010	281	1100	3.620308	264.0826	25.92008	-1.736	31.92	5.671	36.03	15.26	14.29	-0.9690636	0	31.1	60.13
10/8/2010 12:00	17302	1_60	2010	281	1200	4.875202	264.1738	21.01406	3.331	41.33	16.19	43.87	16.61	15.46	-1.147628	0	26.08	62.09
10/8/2010 13:00	17303	1_60	2010	281	1300	6.129672	250.9136	18.36284	1.278	42.05	24.04	45.92	17.44	16.25	-1.18862	0	23.82	63.37
10/8/2010 14:00	17304	1_60	2010	281	1400	5.839967	250.8322	24.06008	5.644	48.87	26.25	52.21	18.3	17.15	-1.148203	0	22.08	64.79
10/8/2010 15:00	17305	1_60	2010	281	1500	6.200019	285.6888	13.68429	2.61	39.67	9.61	45.27	18.6	17.61	-0.9989245	0	20.06	65.38
10/8/2010 16:00	17306	1_60	2010	281	1600	5.359321	271.8752	13.82802	1.774	32.93	13.03	37.06	18.46	17.54	-0.9201561	0	19.36	65.29
10/8/2010 17:00	17307	1_60	2010	281	1700	5.412876	267.963	10.6968	0.151	27.97	12.76	29.03	17.69	17.18	-0.5070246	0	20.78	64.06
10/8/2010 18:00	17308	1_60	2010	281	1800	3.217921	261.2857	40.40104	2.857	17.13	11.43	18.59	15.04	15.45	0.4088927	0	27.08	59.58
10/8/2010 19:00	17309	1_60	2010	281	1900	1.203768	295.5086	45.34992	0.524	10.23	0.864	10.92	12.89	14.05	1.154125	0	32.74	55.45
10/8/2010 20:00	17310	1_60	2010	281	2000	1.252548	202.3197	21.72948	0.078	2.265	1.233	4.224	11.16	13	1.848205	0	38.64	52.49
10/8/2010 21:00	17311	1_60	2010	281	2100	1.396813	208.0545	9.457578	-0.02	0.449	0.146	1.001	9.08	12.41	3.335398	0	46.97	49.14
10/8/2010 22:00	17312	1_60	2010	281	2200	1.445893	162.1815	29.98908	-0.017	0.649	0.074	1.023	7.334	10.97	3.638255	0	56.06	45.53
10/8/2010 23:00	17313	1_60	2010	281	2300	1.456205	133.8766	39.44193	-0.161	6.308	-0.042	4.955	6.867	9.44	2.568119	0	56.83	45.12
10/9/2010 0:00	17314	1_60	2010	282	0	1.356478	125.3044	23.04233	-0.003	0.148	-0.001	0.079	6.056	8.16	2.103918	0	60.98	43.39
10/9/2010 1:00	17315	1_60	2010	282	100	2.491189	125.6722	10.82643	0.601	3.91	2.566	5.035	5.182	7.266	2.083858	0	64.44	41.84
10/9/2010 2:00	17316	1_60	2010	282	200	1.757884	121.8981	18.04836	0.586	3.852	1.621	4.91	4.504	5.972	1.467496	0	67.72	40.64
10/9/2010 3:00	17317	1_60	2010	282	300	2.421072	125.1353	10.89211	0.777	5.054	2.914	6.604	3.83	5.83	1.999893	0	71.06	39.29
10/9/2010 4:00	17318	1_60	2010	282	400	2.46112	139.0614	14.71339	0.808	7.474	6.606	9.74	3.287	5.283	1.995873	0	72.57	38.55
10/9/2010 5:00	17319	1_60	2010	282	500	2.380368	130.0845	14.29091	1.636	5.928	6.598	8.54	3.861	5.129	1.26822	0	68.9	39.4
10/9/2010 6:00	17320	1_60	2010	282	600	1.095794	104.8271	28.08349	0.11	2.253	1.84	5.704	2.507	3.797	1.290522	0	75.4	36.96
10/9/2010 7:00	17321	1_60	2010	282	700	0.8807551	338.4274	21.90184	0.024	0.504	0.065	0.635	1.259	2.126	0.8667412	0	82.5	34.94
10/9/2010 8:00	17322	1_60	2010	282	800	1.263382	122.5277	15.97697	2.207	11.5	2.751	11.81	5.095	4.708	-0.3871431	0	68.52	42.06
10/9/2010 9:00	17323	1_60	2010	282	900	1.62113	108.3053	27.01271	7.777	23.49	7.709	23.56	9.19	8.59	-0.5953649	0	47.44	49.74
10/9/2010 10:00	17324	1_60	2010	282	1000	0.9970044	74.95737	45.46399	-0.337	28.29	-0.117	27.73	11.2	10.67	-0.5249754	0	37.73	54.47
10/9/2010 11:00	17325	1_60	2010	282	1100	1.399917	292.4684	40.78347	1.288	30.71	2.035	29.34	13.35	12.68	-0.6659749	0	33.82	58.07
10/9/2010 12:00	17326	1_60	2010	282	1200	2.805154	282.7021	21.77935	-3.254	32.99	-2.031	35.36	15.38	14.42	-0.9616903	0	31.56	60.46
10/9/2010 13:00	17327	1_60	2010	282	1300	2.408926	331.5882	42.41319	2.747	35.99	-2.187	35.83	16.67	15.82	-0.8503877	0	27.24	63.19
10/9/2010 14:00	17328	1_60	2010	282	1400	1.881679	171.2674	59.33332	-0.48	35.17	3.67	36.61	17.78	16.76	-1.019532	0	23.56	64.73
10/9/2010 15:00	17329	1_60	2010	282	1500	2.691401	269.9203	33.33323	3.386	24.29	9.22	27.4	18.11	17.43	-0.6864542	0	22.6	65.2
10/9/2010 16:00	17330	1_60	2010	282	1600	3.335124	301.6178	15.78556	4.462	21.71	2.883	23.59	17.59	17.22	-0.369849	0	24.46	63.9
10/9/2010 17:00	17331	1_60	2010	282	1700	4.753362	304.4309	10.94604	4.516	23.27	2.225	25.03	17	16.76	-0.2387862	0	25.54	62.8
10/9/2010 18:00	17332	1_60	2010	282	1800	3.62754	301.0341	18.28026	4.512	18.67	2.82	19.7	15.02	15.33	0.305524	0	29.28	59.46
10/9/2010 19:00	17333	1_60	2010	282	1900	3.199935	300.044	19.17743	5.089	26.33	4.061	29.07	13.32	14.05	0.7268628	0	34.91	56.23
10/9/2010 20:00	17334	1_60	2010	282	2000	1.511711	271.8065	41.05709	2.307	13.53	3.365	13.77	12.13	12.93	0.792795	0	40.83	54.04
10/9/2010 21:00	17335	1_60	2010	282	2100	1.591236	143.8606	25.06255	-0.997	9.71	2.599	10.68	9.64	12.16	2.51867	0	50.27	50.06
10/9/2010 22:00	17336	1_60	2010	282	2200	1.552469	132.0376	33.07159	0.25	4.145	4.465	10.32	10.18	12.1	1.922692	0	48.84	50.75
10/9/2010 23:00	17337	1_60	2010	282	2300	2.173741	150.7654	15.70157	-0.167	5.288	2.225	7.452	8.01	10.9	2.886588	0	56.39	47.04

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/7/2010 0:00	17266	1_60	2010	280	0	24.77	0.104	6.548	1.98	111.9	2309	13.31
10/7/2010 1:00	17267	1_60	2010	280	100	24.77	0.092	6.547	1.638	100.1	59	13.32
10/7/2010 2:00	17268	1_60	2010	280	200	24.77	0.085	6.547	1.741	250	153	13.33
10/7/2010 3:00	17269	1_60	2010	280	300	24.76	0.071	6.547	2.219	17.76	204	13.35
10/7/2010 4:00	17270	1_60	2010	280	400	24.76	0.061	6.546	2.321	21.94	342	13.36
10/7/2010 5:00	17271	1_60	2010	280	500	24.77	0.063 AQ		3.345	32.98	439	13.36
10/7/2010 6:00	17272	1_60	2010	280	600	24.77	0.062	6.546	3.413	152.2	526	12.84
10/7/2010 7:00	17273	1_60	2010	280	700	24.78	15.92	6.546	3.14	17.49	650	12.24
10/7/2010 8:00	17274	1_60	2010	280	800	24.78	167.1	6.546	2.731	31.55	716	12.41
10/7/2010 9:00	17275	1_60	2010	280	900	24.78	238.1	6.546	1.741	336.6	824	13.31
10/7/2010 10:00	17276	1_60	2010	280	1000	24.76	347.3	6.546	1.707	272.8	911	13.26
10/7/2010 11:00	17277	1_60	2010	280	1100	24.74	539	6.546	2.833	292.2	1035	13.19
10/7/2010 12:00	17278	1_60	2010	280	1200	24.71	720.5 AQ		14.23	217.9	1156	13.12
10/7/2010 13:00	17279	1_60	2010	280	1300	24.68	762.1 AQ		15.6	171.3	1213	13.05
10/7/2010 14:00	17280	1_60	2010	280	1400	24.65	375.1	6.573	14.92	165	1311	13.02
10/7/2010 15:00	17281	1_60	2010	280	1500	24.64	215.3	6.566	14.61	174.9	1404	13.05
10/7/2010 16:00	17282	1_60	2010	280	1600	24.62	238.1	6.56	7.441	204.2	1502	13.08
10/7/2010 17:00	17283	1_60	2010	280	1700	24.61	191.9	6.55	8.81	177.6	1606	13.06
10/7/2010 18:00	17284	1_60	2010	280	1800	24.61	51.26	6.537	9.35	122.6	1705	13.07
10/7/2010 19:00	17285	1_60	2010	280	1900	24.62	0.123	6.526	6.451	104.5	1811	13.12
10/7/2010 20:00	17286	1_60	2010	280	2000	24.63	0.023	6.518	6.11	129.4	1946	13.16
10/7/2010 21:00	17287	1_60	2010	280	2100	24.65	0.05	6.512	4.506	144.8	2005	13.18
10/7/2010 22:00	17288	1_60	2010	280	2200	24.65	0.064	6.506	6.212	120.8	2146	13.21
10/7/2010 23:00	17289	1_60	2010	280	2300	24.66	0.057	6.501	6.349	151.6	2208	13.22
10/8/2010 0:00	17290	1_60	2010	281	0	24.67	0.03	6.494	8.53	167.9	2328	13.24
10/8/2010 1:00	17291	1_60	2010	281	100	24.67	0.044	6.488	7.339	234.1	47	13.25
10/8/2010 2:00	17292	1_60	2010	281	200	24.69	0.038	6.483	6.383	255.2	121	13.25
10/8/2010 3:00	17293	1_60	2010	281	300	24.7	0.042	6.48	4.198	288.2	207	13.27
10/8/2010 4:00	17294	1_60	2010	281	400	24.71	0.066	6.476	3.721	238	300	13.32
10/8/2010 5:00	17295	1_60	2010	281	500	24.7	0.066	6.474	2.355	282.3	455	13.35
10/8/2010 6:00	17296	1_60	2010	281	600	24.72	0.07	6.472	3.106	69.91	541	13.37
10/8/2010 7:00	17297	1_60	2010	281	700	24.73	26.88	6.471	2.901	212.5	632	13.39
10/8/2010 8:00	17298	1_60	2010	281	800	24.75	196.5	6.468	3.311	87.4	720	13.37
10/8/2010 9:00	17299	1_60	2010	281	900	24.76	389.4	6.464	4.574	256.3	840	13.29
10/8/2010 10:00	17300	1_60	2010	281	1000	24.76	559.6	6.46	6.417	200.4	926	13.21
10/8/2010 11:00	17301	1_60	2010	281	1100	24.76	685.6	6.453	7.919	251.2	1055	13.17
10/8/2010 12:00	17302	1_60	2010	281	1200	24.76	752.1	6.444	9.86	303.9	1156	13.13
10/8/2010 13:00	17303	1_60	2010	281	1300	24.74	764.1	6.428	11.71	270.1	1246	13.11
10/8/2010 14:00	17304	1_60	2010	281	1400	24.73	706.2	6.412	14.75	251.7	1323	13.1
10/8/2010 15:00	17305	1_60	2010	281	1500	24.73	586.4	6.388	11.26	288.2	1404	13.09
10/8/2010 16:00	17306	1_60	2010	281	1600	24.73	421.5	6.371	9.52	270.4	1513	13.08
10/8/2010 17:00	17307	1_60	2010	281	1700	24.73	224.7	6.354	8.67	261	1622	13.1
10/8/2010 18:00	17308	1_60	2010	281	1800	24.75	34.53	6.344	7.851	256	1704	13.13
10/8/2010 19:00	17309	1_60	2010	281	1900	24.77	0.088	6.337	3.038	171.3	1849	13.2
10/8/2010 20:00	17310	1_60	2010	281	2000	24.79	0.022	6.331	2.526	188.6	1903	13.26
10/8/2010 21:00	17311	1_60	2010	281	2100	24.8	0.059	6.327	2.219	193.1	2000	13.31
10/8/2010 22:00	17312	1_60	2010	281	2200	24.8	0.06	6.322	2.731	123	2118	13.36
10/8/2010 23:00	17313	1_60	2010	281	2300	24.8	0.033	6.317	2.662	125.4	2217	13.39
10/9/2010 0:00	17314	1_60	2010	282	0	24.8	0.02	6.314	2.594	144	2357	13.42
10/9/2010 1:00	17315	1_60	2010	282	100	24.81	0.055	6.311	3.652	130.8	29	13.44
10/9/2010 2:00	17316	1_60	2010	282	200	24.83	0.061	6.308	4.028	131.4	104	13.46
10/9/2010 3:00	17317	1_60	2010	282	300	24.82	0.063	6.306	4.198	137.2	240	13.48
10/9/2010 4:00	17318	1_60	2010	282	400	24.83	0.062	6.305	4.54	133	342	13.49
10/9/2010 5:00	17319	1_60	2010	282	500	24.83	0.058	6.304	4.198	126.3	440	13.5
10/9/2010 6:00	17320	1_60	2010	282	600	24.83	0.079	6.304	3.209	145.2	503	13.51
10/9/2010 7:00	17321	1_60	2010	282	700	24.85	28.55	6.303	2.048	108.1	655	13.54
10/9/2010 8:00	17322	1_60	2010	282	800	24.86	186.4	6.301	2.321	102.7	745	13.5
10/9/2010 9:00	17323	1_60	2010	282	900	24.86	386.4	6.295	3.209	103.5	825	13.4
10/9/2010 10:00	17324	1_60	2010	282	1000	24.84	557.3	6.29	3.106	73.23	924	13.3
10/9/2010 11:00	17325	1_60	2010	282	1100	24.83	682.9	6.287	3.959	259.2	1059	13.21
10/9/2010 12:00	17326	1_60	2010	282	1200	24.82	753.5	6.282	6.349	282.3	1141	13.14
10/9/2010 13:00	17327	1_60	2010	282	1300	24.79	761	6.272	6.793	312.5	1242	13.09
10/9/2010 14:00	17328	1_60	2010	282	1400	24.76	683.1	6.264	5.769	208	1343	13.08
10/9/2010 15:00	17329	1_60	2010	282	1500	24.76	381.4	6.253	6.315	265.4	1425	13.06
10/9/2010 16:00	17330	1_60	2010	282	1600	24.76	187.3	6.243	6.588	326.5	1559	13.09
10/9/2010 17:00	17331	1_60	2010	282	1700	24.77	129.9	6.228	7.68	293.3	1633	13.12
10/9/2010 18:00	17332	1_60	2010	282	1800	24.77	30.47	6.214	7.475	313.1	1722	13.15
10/9/2010 19:00	17333	1_60	2010	282	1900	24.78	0.07	6.204	7.817	316.3	1823	13.2
10/9/2010 20:00	17334	1_60	2010	282	2000	24.79	0.019	6.198	5.973	328.7	1919	13.25
10/9/2010 21:00	17335	1_60	2010	282	2100	24.81	0.057	6.194	3.277	170.9	2053	13.29
10/9/2010 22:00	17336	1_60	2010	282	2200	24.8	0.064	6.192	4.096	174.7	2102	13.33
10/9/2010 23:00	17337	1_60	2010	282	2300	24.81	0.065	6.189	3.447	148.9	2229	13.35

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/10/2010 0:00	17338	1_60	2010	283	0	1.943433	164.5346	15.6179	0.152	2.583	2.679	5.432	7.642	10.8	3.15477	0	57.94	46.2
10/10/2010 1:00	17339	1_60	2010	283	100	0.9120356	117.5588	46.05421	0.023	0.965	0.018	0.63	6.188	8.84	2.65003	0	63.38	43.93
10/10/2010 2:00	17340	1_60	2010	283	200	1.500236	124.9276	16.93127	-0.065	0.882	-0.11	1.328	4.494	7.152	2.65783	0	71.22	40.75
10/10/2010 3:00	17341	1_60	2010	283	300	0.8728133	145.1005	25.987	0.088	1.228	0.08	1.192	4.523	8.03	3.502496	0	72.49	40.4
10/10/2010 4:00	17342	1_60	2010	283	400	1.555162	130.4502	29.34582	0.283	3.216	0.138	2.651	4.089	7.693	3.603625	0	72.67	40.07
10/10/2010 5:00	17343	1_60	2010	283	500	1.568218	271.6096	53.59925	0.065	5.85	0.249	6.373	4.011	6.267	2.256799	0	74.63	39.51
10/10/2010 6:00	17344	1_60	2010	283	600	1.627014	119.1875	26.2318	0.572	4.311	0.927	5.085	3.047	5.284	2.237016	0	78.64	37.97
10/10/2010 7:00	17345	1_60	2010	283	700	1.29038	108.1633	34.65169	0.038	1.175	-0.008	1.319	3.875	5.249	1.374525	0	77.91	39.34
10/10/2010 8:00	17346	1_60	2010	283	800	0.9766633	96.97903	26.17194	0.135	2.908	-0.193	3.472	7.168	7.244	0.07602964	0	68.48	45.8
10/10/2010 9:00	17347	1_60	2010	283	900	0.8546082	301.1965	29.24012	2.521	14	3.181	14.88	10.33	9.97	-0.3608417	0	52.21	52.41
10/10/2010 10:00	17348	1_60	2010	283	1000	3.127765	303.0554	30.06728	4.439	26.28	0.716	26.27	14.38	13.61	-0.7660004	0	39.78	58.88
10/10/2010 11:00	17349	1_60	2010	283	1100	2.70614	308.6865	35.026	1.14	37.54	-1.324	39.03	16.09	15.32	-0.7678035	0	35.03	62.04
10/10/2010 12:00	17350	1_60	2010	283	1200	2.83146	300.7518	51.55951	4.672	41.43	1.064	44.95	17.81	16.98	-0.8287787	0	31.73	65.01
10/10/2010 13:00	17351	1_60	2010	283	1300	3.710496	325.7804	34.07284	9.14	41.11	0.332	40.8	19.43	18.45	-0.9854872	0	28.18	67.6
10/10/2010 14:00	17352	1_60	2010	283	1400	4.319553	337.08	30.16962	6.618	44.24	-7.413	47.56	20.21	19.3	-0.9166563	0	25.14	68.79
10/10/2010 15:00	17353	1_60	2010	283	1500	5.694093	351.8998	26.59154	14.29	42.81	-8.51	49.18	20.75	19.84	-0.9095955	0	23.67	69.52
10/10/2010 16:00	17354	1_60	2010	283	1600	5.222306	353.8723	20.71428	8.74	34.97	-14.9	39.31	20.02	19.41	-0.6082069	0	24.48	68.3
10/10/2010 17:00	17355	1_60	2010	283	1700	4.182917	0.785088	23.37036	11.82	33.83	-5.201	36.91	19.46	19.14	-0.3179327	0	23.91	67.48
10/10/2010 18:00	17356	1_60	2010	283	1800	4.747389	5.572172	18.51784	12.42	25.78	-7.616	27.9	17.77	18.03	0.2568957	0	26.43	64.23
10/10/2010 19:00	17357	1_60	2010	283	1900	4.742349	0.085504	15.5546	12.8	24.21	-8.62	26.5	16.81	17.21	0.3925417	0	29.95	62.45
10/10/2010 20:00	17358	1_60	2010	283	2000	3.904947	341.9042	15.06432	7.122	18.31	-4.161	20.22	15.45	16.16	0.7107641	0	33.7	60.13
10/10/2010 21:00	17359	1_60	2010	283	2100	1.246972	201.7822	30.04586	-0.585	6.826	0.21	6.936	12.28	14.17	1.885074	0	42.96	54.78
10/10/2010 22:00	17360	1_60	2010	283	2200	1.53918	201.0729	20.65044	0.54	5.068	2.583	7.808	10.67	13.48	2.806178	0	50.35	51.66
10/10/2010 23:00	17361	1_60	2010	283	2300	1.529721	187.3111	41.66008	-0.079	1.17	0.96	3.298	9.34	12.72	3.38122	0	55.22	49.59
10/11/2010 0:00	17362	1_60	2010	284	0	1.175715	149.6251	16.4733	-0.012	0.344	-0.01	0.337	8.09	12.37	4.281586	0	59.95	47.25
10/11/2010 1:00	17363	1_60	2010	284	100	2.503922	122.5601	6.657779	0.162	2.108	0.488	2.508	6.499	9.01	2.510436	0	67.43	44.1
10/11/2010 2:00	17364	1_60	2010	284	200	2.553957	125.0695	17.62669	0.154	2.196	0.901	3.424	5.76	7.97	2.209993	0	70.33	42.83
10/11/2010 3:00	17365	1_60	2010	284	300	3.351317	118.361	7.016826	1.802	5.636	6.452	8.49	6.531	8.17	1.634753	0	66.8	44
10/11/2010 4:00	17366	1_60	2010	284	400	3.061039	118.0834	7.075035	1.292	5.967	2.434	7.918	5.09	6.885	1.795098	0	71.11	41.59
10/11/2010 5:00	17367	1_60	2010	284	500	1.985528	117.8118	35.49567	2.377	9.97	6.146	13.02	4.538	6.12	1.581659	0	71.41	40.93
10/11/2010 6:00	17368	1_60	2010	284	600	1.607844	117.5152	24.39526	0.394	3.848	0.435	3.215	3.728	5.877	2.148656	0	77.56	38.94
10/11/2010 7:00	17369	1_60	2010	284	700	1.478968	157.5043	25.76168	0.712	9.54	2.65	9.38	4.897	6.41	1.513442	0	71.4	41.67
10/11/2010 8:00	17370	1_60	2010	284	800	0.8309743	76.99707	37.11229	1.76	10.43	1.766	9.15	7.372	7.146	-0.2264208	0	60.53	47.25
10/11/2010 9:00	17371	1_60	2010	284	900	1.016317	277.2702	62.04817	0.41	24.11	0.795	23.06	11.18	10.71	-0.4719374	BA	46.82	54.27
10/11/2010 10:00	17372	1_60	2010	284	1000	1.636377	283.9059	39.25595	5.883	26.42	6.346	28.81	13	12.34	-0.6607236	0	42.16	56.82
10/11/2010 11:00	17373	1_60	2010	284	1100	0.9587476	280.2743	61.01878	3.03	33.72	5.234	34.16	15.72	14.96	-0.7591706	0	32.33	62.64
10/11/2010 12:00	17374	1_60	2010	284	1200	1.550673	271.483	44.01523	7.702	36.94	10.39	36.54	18.51	17.64	-0.8655022	0	27.37	66.99
10/11/2010 13:00	17375	1_60	2010	284	1300	2.527995	276.3812	37.55903	-1.764	39.12	1.461	41.1	20.16	19.13	-1.033087	0	24.83	69.19
10/11/2010 14:00	17376	1_60	2010	284	1400	3.129591	248.8549	33.74149	0.34	41.83	8.26	45.33	21.22	20.13	-1.090899	0	23.68	70.46
10/11/2010 15:00	17377	1_60	2010	284	1500	4.02067	340.7806	32.06166	6.052	36.19	-4.489	38.24	21.74	20.87	-0.8618501	0	23.77	71.68
10/11/2010 16:00	17378	1_60	2010	284	1600	6.352708	314.1745	11.25116	4.851	32.03	-7.036	36.94	21.86	20.99	-0.872443	0	24.66	71.3
10/11/2010 17:00	17379	1_60	2010	284	1700	4.424497	324.8819	17.57303	2.852	29.02	-7.619	31.68	21.09	20.65	-0.4310211	0	24.82	70.33
10/11/2010 18:00	17380	1_60	2010	284	1800	5.367473	312.1609	9.199643	4.714	22.9	-2.754	25.08	19.42	19.66	0.2411057	0	27.37	67.26
10/11/2010 19:00	17381	1_60	2010	284	1900	2.815253	313.8126	13.17157	1.865	10.93	-0.05	9.65	16.54	18.1	1.55495	0	32.44	62.35
10/11/2010 20:00	17382	1_60	2010	284	2000	2.845124	291.8289	8.095549	0.917	7.667	0.985	6.332	13.25	15.27	2.022985	0	42.5	56.42
10/11/2010 21:00	17383	1_60	2010	284	2100	1.707605	200.8584	39.08109	0.283	7.523	1.206	8.1	11.63	13.43	1.791453	0	49.07	53.32
10/11/2010 22:00	17384	1_60	2010	284	2200	1.654694	145.9083	19.99539	-0.007	2.096	0.903	3.305	10.26	13.19	2.93842	0	53.72	51.01
10/11/2010 23:00	17385	1_60	2010	284	2300	2.082329	127.5307	16.18886	-0.005	0.62	0.093	0.938	8.87	12.01	3.132981	0	59.1	48.41
10/12/2010 0:00	17386	1_60	2010	285	0	2.412601	129.7322	12.00615	0.422	4.339	1.666	5.141	9.22	12.5	3.276153	0	57.62	49.33
10/12/2010 1:00	17387	1_60	2010	285	100	2.957213	117.8434	7.158404	1.145	5.844	2.082	5.669	8.83	10.47	1.646129	0	58.29	48.29
10/12/2010 2:00	17388	1_60	2010	285	200	2.294632	119.3249	20.28587	0.7	7.852	2.855	8.71	8.19	9.63	1.43637	0	59.69	47.29
10/12/2010 3:00	17389	1_60	2010	285	300	1.831734	125.8663	24.92072	0.344	2.977	1.577	4.943	6.627	8.51	1.885035	0	66.77	44.26
10/12/2010 4:00	17390	1_60	2010	285	400	1.959111	110.928	15.73333	0.253	2.507	0.899	3.38	6.358	8.15	1.792079	0	67.12	43.73
10/12/2010 5:00	17391	1_60	2010	285	500	1.721251	99.88197	20.2141	-0.121	3.31	-0.247	2.94	5.348	6.907	1.559009	0	70.59	42
10/12/2010 6:00	17392	1_60	2010	285	600	0.7415462	196.459	44.48383	-0.004	0.495	0.004	0.592	4.011	5.293	1.282668	0	76.56	39.6
10/12/2010 7:00	17393	1_60	2010	285	700	1.198134	155.4037	41.10417	-0.023	1.386	0.107	1.432	3.85	4.925	1.075052	0	77.43	39.43
10/12/2010 8:00	17394	1_60	2010	285	800	0.997288	143.3169	27.36351	1.008	6.686	1.588	7.259	8.31	7.949	-0.357245	0	60.9	48.28
10/12/2010 9:00	17395	1_60	2010	285	900	0.5222393	320.7423	49.94882	1.413	19	0.519	18.09	12.48	12.12	-0.3589753	0	42.94	57.42
10/12/2010 10:00	17396	1_60	2010	285	1000	1.122215	298.4551	54.41541	3.828	28.46	2.396	26.52	14.91	14.33	-0.5826486	0	38.01	60.97
10/12/2010 11:00	17397	1_60	2010	285	1100	1.591037	286.5761	31.88432	1.908	32.82	1.802	31.33	17.4	16.68	-0.7222103	0	34.09	64.98
10/12/2010 12:00	17398	1_60	2010	285	1200	2.091741	295.1366	29.27332	6.456	31.95	5.795	32.19	19.88	18.99	-0.8875501	0	30.66	68.81
10/12/2010 13:00	17399	1_60	2010	285	1300	2.931133	297.6244	24.3278	1.309	35.47	0.803	38.13	21.45	20.44	-1.015046	0	26.96	71.37
10/12/2010 14:00	17400	1_60	2010	285	1400	3.620092	295.8929	29.0982	0.608	34.16	0.028	37.64	22.48	21.49	-0.9926124	0	22.35	72.79
10/12/2010 15:00	17401	1_60	2010	285	1500	3.864193	284.0429	24.4285	7.41	33.41	12.47	37.13	23.41	22.38	-1.033926	0	19.13	74.45
10/12/2010 16:00	17402	1_60	2010	285	1600	3.090196	338.3147	27.51439	5.598	27.93	-3.36	28.54	23.19	22.54	-0.6449383	0	17.75	74.47
10/12/2010 17:00	17403	1_60	2010	285	1700	4.079684	338.8908	20.52335	6.299	26.88	-7.063	28.3	22.27	22	-0.2707548	0	19.11	72.56
10/12/2010 18:00	17404	1_60	2010	285	1800	5.352723	348.3821	15.28775	13.21	28.48	-8.38	30.6	20.04	20.25	0.2192077	0	21.61	68.36
10/12/2010 19:00	17405	1_60	2010	285	1900	3.238167	285.3238	13.71526	3.867	15.76	6.726	17.92	16.48	17.97	1.4864	0	25.34	62.23
10/12/2010 20:00	17406	1_60	2010	285	2000	1.319506	243.6688	21.11284	0.44	4.945	0.98	4.126	14.44	16.81	2.375895	0	27.95	58.45
10/12/2010 21:00	17407	1_60	2010	285	2100	1.258407	257.8378	17.56045	-0.118	1.677	-0.023	1.107	14.61	16.55	1.93296	0	26.23	58.58
10/12/2010 22:00	17408	1_60	2010	285	2200	0.6421021	204.2955	40.39218	0.07	1.438	0.08	0.975	10.62	14.6	3.978518	0	34.11	52.3
10/12/2010 23:00	17409	1_60	2010	285	2300	2.029138	118.8135	10.95082	0.277	4.824	0.672	5.345	9.42	13.6	4.178563	0	40.51	49.72

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/10/2010 0:00	17338	1_60	2010	283	0	24.8	0.041	6.187	3.243	149.9	2308	13.38
10/10/2010 1:00	17339	1_60	2010	283	100	24.8	0.019	6.185	2.458	119.5	59	13.4
10/10/2010 2:00	17340	1_60	2010	283	200	24.8	0.046	6.183	2.526	126.4	100	13.43
10/10/2010 3:00	17341	1_60	2010	283	300	24.78	0.063	6.181	2.253	103.5	259	13.46
10/10/2010 4:00	17342	1_60	2010	283	400	24.78	0.063	6.18	2.662	51.94	340	13.47
10/10/2010 5:00	17343	1_60	2010	283	500	24.79	0.061	6.179	3.209	91.5	412	13.48
10/10/2010 6:00	17344	1_60	2010	283	600	24.79	0.069	6.178	3.072	88.1	530	13.49
10/10/2010 7:00	17345	1_60	2010	283	700	24.79	29.42	6.178	2.935	79.88	617	13.49
10/10/2010 8:00	17346	1_60	2010	283	800	24.8	135.5	6.176	2.116	34.21	754	13.45
10/10/2010 9:00	17347	1_60	2010	283	900	24.8	323.7	6.176	2.526	239.2	837	13.36
10/10/2010 10:00	17348	1_60	2010	283	1000	24.77	546	6.173	6.417	321.3	932	13.26
10/10/2010 11:00	17349	1_60	2010	283	1100	24.75	673.2	6.167	7.885	303.4	1003	13.17
10/10/2010 12:00	17350	1_60	2010	283	1200	24.72	755.2	6.164	7.339	3.521	1148	13.11
10/10/2010 13:00	17351	1_60	2010	283	1300	24.69	727.9	6.155	9.56	318.3	1219	13.07
10/10/2010 14:00	17352	1_60	2010	283	1400	24.66	678.7	6.144	10.62	344	1309	13.05
10/10/2010 15:00	17353	1_60	2010	283	1500	24.65	611.7	6.124	13.55	339.6	1408	13.04
10/10/2010 16:00	17354	1_60	2010	283	1600	24.65	363	6.11	9.76	8.11	1527	13.04
10/10/2010 17:00	17355	1_60	2010	283	1700	24.64	199.2	6.093	8.87	351	1652	13.06
10/10/2010 18:00	17356	1_60	2010	283	1800	24.64	13.9	6.075	9.69	325.4	1700	13.09
10/10/2010 19:00	17357	1_60	2010	283	1900	24.65	0.082	6.059	7.543	349.5	1843	13.14
10/10/2010 20:00	17358	1_60	2010	283	2000	24.66	0.017	6.047	7.748	22.28	1910	13.18
10/10/2010 21:00	17359	1_60	2010	283	2100	24.67	0.039	6.04	2.935	302.2	2030	13.22
10/10/2010 22:00	17360	1_60	2010	283	2200	24.67	0.035	6.035	2.97	245.5	2134	13.27
10/10/2010 23:00	17361	1_60	2010	283	2300	24.67	0.062	6.031	2.935	227.3	2221	13.31
10/11/2010 0:00	17362	1_60	2010	284	0	24.67	0.063	6.027	1.843	112.4	2352	13.35
10/11/2010 1:00	17363	1_60	2010	284	100	24.66	0.041	6.023	4.096	119.2	49	13.38
10/11/2010 2:00	17364	1_60	2010	284	200	24.66	0.015	6.019	4.915	111.8	159	13.41
10/11/2010 3:00	17365	1_60	2010	284	300	24.66	0.039	6.016	5.325	118.6	205	13.43
10/11/2010 4:00	17366	1_60	2010	284	400	24.67	0.043	6.013	6.281	119.8	357	13.44
10/11/2010 5:00	17367	1_60	2010	284	500	24.68	0.054	6.011	7.1	133.6	404	13.45
10/11/2010 6:00	17368	1_60	2010	284	600	24.69	0.069	6.009	3.004	61.15	532	13.48
10/11/2010 7:00	17369	1_60	2010	284	700	24.71	23.29	6.009	3.755	125.5	603	13.49
10/11/2010 8:00	17370	1_60	2010	284	800	24.71	187.6	6.006	1.843	56.13	734	13.44
10/11/2010 9:00	17371	1_60	2010	284	900	24.71	378.3	5.998	2.833	294.9	823	13.3
10/11/2010 10:00	17372	1_60	2010	284	1000	24.71	547.3	5.994	3.823	306.3	909	13.22
10/11/2010 11:00	17373	1_60	2010	284	1100	24.7	671	5.991	3.174	253.2	1050	13.17
10/11/2010 12:00	17374	1_60	2010	284	1200	24.68	740.5	5.99	3.994	306	1159	13.1
10/11/2010 13:00	17375	1_60	2010	284	1300	24.66	740.9	5.984	6.11	296.2	1254	13.05
10/11/2010 14:00	17376	1_60	2010	284	1400	24.64	674.5	5.976	7.031	257	1343	13.03
10/11/2010 15:00	17377	1_60	2010	284	1500	24.64	544.5	5.955	10	292.5	1456	13.02
10/11/2010 16:00	17378	1_60	2010	284	1600	24.65	407	5.931	9.73	296.5	1518	13.02
10/11/2010 17:00	17379	1_60	2010	284	1700	24.66	207.9	5.914	9.93	319.7	1624	13.03
10/11/2010 18:00	17380	1_60	2010	284	1800	24.67	24.59	5.893	8.84	312.3	1716	13.06
10/11/2010 19:00	17381	1_60	2010	284	1900	24.68	0.051	5.88	5.973	5.157	1816	13.11
10/11/2010 20:00	17382	1_60	2010	284	2000	24.69	0.034	5.874	4.676	305.2	1952	13.18
10/11/2010 21:00	17383	1_60	2010	284	2100	24.7	0.041	5.866	3.823	301.6	2000	13.24
10/11/2010 22:00	17384	1_60	2010	284	2200	24.71	0.024	5.861	2.97	114.2	2145	13.28
10/11/2010 23:00	17385	1_60	2010	284	2300	24.71	0.057	5.857	3.413	116	2246	13.32
10/12/2010 0:00	17386	1_60	2010	285	0	24.72	0.069	5.854	4.71	116.3	2348	13.34
10/12/2010 1:00	17387	1_60	2010	285	100	24.73	0.071	5.85	4.676	113.2	29	13.36
10/12/2010 2:00	17388	1_60	2010	285	200	24.74	0.073	5.848	4.13	129.5	115	13.37
10/12/2010 3:00	17389	1_60	2010	285	300	24.74	0.062	5.845	4.403	123.6	251	13.39
10/12/2010 4:00	17390	1_60	2010	285	400	24.75	0.05	5.845	3.004	124.3	315	13.41
10/12/2010 5:00	17391	1_60	2010	285	500	24.76	0.026	5.843	3.174	67.84	414	13.42
10/12/2010 6:00	17392	1_60	2010	285	600	24.78	0.033	5.842	1.809	84.9	547	13.44
10/12/2010 7:00	17393	1_60	2010	285	700	24.81	21.44	5.841	2.287	223.5	606	13.47
10/12/2010 8:00	17394	1_60	2010	285	800	24.82	178.8	5.838	1.911	90	718	13.43
10/12/2010 9:00	17395	1_60	2010	285	900	24.83	366.9	5.836	1.673	80.3	813	13.32
10/12/2010 10:00	17396	1_60	2010	285	1000	24.83	536.7	5.834	2.765	252	955	13.21
10/12/2010 11:00	17397	1_60	2010	285	1100	24.81	660.5	5.831	4.369	307	1053	13.13
10/12/2010 12:00	17398	1_60	2010	285	1200	24.79	732.9	5.828	6.588	310.7	1144	13.08
10/12/2010 13:00	17399	1_60	2010	285	1300	24.77	740.6	5.82	6.963	291.4	1251	13.03
10/12/2010 14:00	17400	1_60	2010	285	1400	24.76	684.6	5.807	7.475	286.4	1332	13.01
10/12/2010 15:00	17401	1_60	2010	285	1500	24.76	563.2	5.788	7.953	281	1447	13
10/12/2010 16:00	17402	1_60	2010	285	1600	24.75	394.7	5.769	10.62	341	1556	13
10/12/2010 17:00	17403	1_60	2010	285	1700	24.76	176	5.749	7.953	347.2	1658	13.01
10/12/2010 18:00	17404	1_60	2010	285	1800	24.78	21.45	5.726	8.81	352.3	1724	13.05
10/12/2010 19:00	17405	1_60	2010	285	1900	24.8	0.047	5.702	6.519	307	1813	13.11
10/12/2010 20:00	17406	1_60	2010	285	2000	24.82	0.03	5.691	3.106	287.9	1906	13.17
10/12/2010 21:00	17407	1_60	2010	285	2100	24.84	0.036	5.685	2.185	226.8	2005	13.23
10/12/2010 22:00	17408	1_60	2010	285	2200	24.85	0.024	5.679	1.673	196.9	2114	13.27
10/12/2010 23:00	17409	1_60	2010	285	2300	24.86	0.044	5.674	3.277	131.2	2248	13.31

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
10/13/2010 0:00	17410	1_60	2010	286	0	2.458027	125.5142	5.576068	0.208	1.996	0.856	2.744	8.77	11.55	2.780348	0	46.94	48.4
10/13/2010 1:00	17411	1_60	2010	286	100	3.179343	127.8726	6.65216	1.191	4.518	7.097	8.39	8.52	10.84	2.318168	0	47.31	47.8
10/13/2010 2:00	17412	1_60	2010	286	200	1.253231	117.7846	16.0605	0.536	2.821	0.694	3.085	6.686	8.68	1.996114	0	53.38	44.61
10/13/2010 3:00	17413	1_60	2010	286	300	2.37928	119.9048	9.604559	0.579	2.818	2.918	4.991	5.848	8.59	2.744068	0	57.85	43.17
10/13/2010 4:00	17414	1_60	2010	286	400	2.348255	128.7631	7.927585	0.435	2.391	3.659	6.076	5.161	7.58	2.418415	0	60.68	41.95
10/13/2010 5:00	17415	1_60	2010	286	500	1.768698	131.553	18.52627	1.222	6.001	2.765	6.555	4.075	6.768	2.692412	0	65.86	39.98
10/13/2010 6:00	17416	1_60	2010	286	600	1.041005	127.4801	17.11025	0.006	0.163	-0.001	0.243	3.383	5.176	1.792826	0	69.84	38.37
10/13/2010 7:00	17417	1_60	2010	286	700	0.9173071	152.2334	25.50417	0.009	3.3	0.327	3.468	3.191	5.557	2.366408	0	69.44	38.36
10/13/2010 8:00	17418	1_60	2010	286	800	1.191395	330.6605	31.55549	0.562	6.391	-0.888	5.163	7.249	7.304	0.05493011	0	55.73	46.34
10/13/2010 9:00	17419	1_60	2010	286	900	0.6502392	7.661005	58.42812	5.451	23.37	3.449	21.89	10.37	9.97	-0.4092705	0	42.47	53.35
10/13/2010 10:00	17420	1_60	2010	286	1000	1.293336	320.1111	35.94697	6.013	29.73	4.006	27.27	12.45	11.91	-0.5434732	0	37.17	56.32
10/13/2010 11:00	17421	1_60	2010	286	1100	1.696507	292.3462	32.37528	1.44	31.66	1.232	32.11	15.16	14.43	-0.7295331	0	31.3	60.78
10/13/2010 12:00	17422	1_60	2010	286	1200	1.577436	286.4756	34.18902	0.413	33.39	0.743	32.5	17.95	17.19	-0.7633368	0	26.15	65.85
10/13/2010 13:00	17423	1_60	2010	286	1300	1.851898	318.6271	41.31032	1.462	36.18	-1.355	35.38	20.6	19.78	-0.8227058	0	20.97	70.59
10/13/2010 14:00	17424	1_60	2010	286	1400	2.028396	297.9845	58.54818	3.992	33.94	2.172	33.38	21.82	20.9	-0.9166834	0	16.4	72.11
10/13/2010 15:00	17425	1_60	2010	286	1500	1.360405	302.4435	53.2463	1.036	38.68	1.493	38.26	22.11	21.46	-0.6506081	0	13.85	73.5
10/13/2010 16:00	17426	1_60	2010	286	1600	1.343427	321.4549	43.01413	-1.843	26.08	-3.004	25.26	22.37	21.79	-0.5710169	0	12.77	73.64
10/13/2010 17:00	17427	1_60	2010	286	1700	1.230158	91.42139	32.32184	2.625	15.6	0.84	15.03	22.17	21.74	-0.4235594	0	13.63	72.76
10/13/2010 18:00	17428	1_60	2010	286	1800	3.176253	232.7955	23.36582	0.639	5.826	10.92	10.59	16.98	19.12	2.14138	0	19.52	63.44
10/13/2010 19:00	17429	1_60	2010	286	1900	1.924806	269.6794	25.27747	0.653	10.25	-0.145	9.51	16.9	18.27	1.375419	0	19.66	62.68
10/13/2010 20:00	17430	1_60	2010	286	2000	1.284093	250.7184	38.09033	1.706	8.13	3.062	10.65	14.33	16.46	2.132461	0	27.33	58.57
10/13/2010 21:00	17431	1_60	2010	286	2100	1.008269	211.9126	31.92588	0.215	2.678	0.28	2.626	10.79	15.05	4.259722	0	36.43	52.49
10/13/2010 22:00	17432	1_60	2010	286	2200	2.979211	126.0423	4.824598	0.726	3.769	3.14	6.974	9.86	13.45	3.587694	0	40.29	50.25
10/13/2010 23:00	17433	1_60	2010	286	2300	3.233351	121.4112	4.546657	1.221	4.624	4.201	6.539	9.44	11.77	2.334149	0	41.05	49.39
10/14/2010 0:00	17434	1_60	2010	287	0	3.697336	121.6415	4.004889	2.628	5.774	8.49	6.889	8.37	10.53	2.157677	0	43.16	47.51
10/14/2010 1:00	17435	1_60	2010	287	100	1.862186	117.6933	25.35794	0.979	5.058	2.381	5.502	6.957	8.52	1.565677	0	46.37	45.1
10/14/2010 2:00	17436	1_60	2010	287	200	1.505068	138.7531	23.37655	0.04	1.221	0.218	1.511	5.279	8.18	2.904905	0	53.79	41.9
10/14/2010 3:00	17437	1_60	2010	287	300	1.744208	141.3604	15.37713	-0.212	4.009	1.138	4.291	5.032	7.983	2.95062	0	54.97	41.73
10/14/2010 4:00	17438	1_60	2010	287	400	1.338307	128.3165	17.51825	-0.043	1.13	-0.025	1.105	4.434	6.773	2.339165	0	57.39	40.43
10/14/2010 5:00	17439	1_60	2010	287	500	1.381036	128.9649	12.15037	0.021	0.391	0.012	0.287	2.915	5.064	2.148907	0	62.5	37.91
10/14/2010 6:00	17440	1_60	2010	287	600	0.9114366	142.3397	32.18238	0	0.055	0.001	0.03	2.395	4.312	1.917596	0	65.03	36.8
10/14/2010 7:00	17441	1_60	2010	287	700	1.504144	137.0542	20.90193	-0.014	0.728	0.009	0.412	1.485	3.88	2.395935	0	68.01	35.23
10/14/2010 8:00	17442	1_60	2010	287	800	0.8291888	178.5999	43.45312	1.176	8.15	1.55	7.877	5.924	5.978	0.05473325	0	52.82	44.4
10/14/2010 9:00	17443	1_60	2010	287	900	0.5746611	197.6646	41.86594	9.03	23.22	9.68	22.38	10.7	10.17	-0.5276157	0	34.74	54.02
10/14/2010 10:00	17444	1_60	2010	287	1000	1.246431	293.7062	44.21731	5.008	29.27	4.904	29.31	12.85	12.22	-0.6338746	0	31.27	57.19
10/14/2010 11:00	17445	1_60	2010	287	1100	1.183798	302.0387	49.29139	-2.068	29.93	-3.672	29.49	14.94	14.29	-0.6520343	0	27.42	60.97
10/14/2010 12:00	17446	1_60	2010	287	1200	1.280791	287.2947	44.93706	-0.329	35.35	-0.888	34.75	17.85	17.15	-0.6940577	0	23.32	66.24
10/14/2010 13:00	17447	1_60	2010	287	1300	1.683165	321.217	37.43098	0.771	30.6	-3.283	29.6	20.81	19.93	-0.8795263	0	19.59	71.02
10/14/2010 14:00	17448	1_60	2010	287	1400	2.32581	337.5497	39.92244	2.196	34.57	-2.95	36.04	22.58	21.78	-0.8006344	0	15.01	73.63
10/14/2010 15:00	17449	1_60	2010	287	1500	2.550977	11.2369	34.96956	3.447	29.46	-7.546	29.62	23.3	22.56	-0.7331716	0	12.79	74.94
10/14/2010 16:00	17450	1_60	2010	287	1600	2.163278	272.7498	47.15924	0.806	31.94	3.038	32.06	23.88	23.22	-0.6630503	0	11.78	75.91
10/14/2010 17:00	17451	1_60	2010	287	1700	2.910908	239.9349	19.99587	2.786	18.65	12.38	20.13	23.44	23.03	-0.409927	0	10.3	74.9
10/14/2010 18:00	17452	1_60	2010	287	1800	3.353743	249.3	7.19336	0.994	6.974	8.95	8.34	18.11	19.74	1.62234	0	15.6	65.41
10/14/2010 19:00	17453	1_60	2010	287	1900	1.136694	298.3104	54.55258	-1.594	12.27	-1.523	11.39	17.75	19.21	1.465453	0	15.4	63.84
10/14/2010 20:00	17454	1_60	2010	287	2000	1.959182	149.0713	18.99895	0.651	3.685	0.937	4.085	13.28	17.02	3.738705	0	20.71	56.97
10/14/2010 21:00	17455	1_60	2010	287	2100	1.543483	131.7305	16.77508	-0.001	0.305	-0.004	0.136	10.39	14.65	4.264512	0	26.17	51.68
10/14/2010 22:00	17456	1_60	2010	287	2200	1.549028	126.2733	12.32948	0.033	2.619	0.218	2.482	9.69	14.18	4.483195	0	28.08	50.16
10/14/2010 23:00	17457	1_60	2010	287	2300	1.107368	127.7782	45.25726	0.075	1.032	0.158	1.375	8.72	11.52	2.799651	0	30.79	48.34
10/15/2010 0:00	17458	1_60	2010	288	0	1.37324	159.2627	19.36525	0.329	3.391	1.572	4.743	7.923	10.21	2.28937	0	32.74	46.8
10/15/2010 1:00	17459	1_60	2010	288	100	1.709564	132.8605	13.06203	0.171	2.752	0.79	2.996	6.007	8.81	2.802716	0	39.69	43.67
10/15/2010 2:00	17460	1_60	2010	288	200	0.6362153	130.4589	43.55435	-0.016	2.057	-0.07	2.098	5.039	7.985	2.946422	0	43.12	41.62
10/15/2010 3:00	17461	1_60	2010	288	300	1.621266	125.5683	14.73588	0.002	0.242	0.016	0.242	3.469	5.89	2.420782	0	49.66	38.62
10/15/2010 4:00	17462	1_60	2010	288	400	1.50841	126.0155	26.99461	-0.039	0.684	0.031	0.806	3.327	6.806	3.479469	0	52.18	38.06
10/15/2010 5:00	17463	1_60	2010	288	500	1.290351	34.86609	25.99311	0.945	7.47	-0.067	7.576	3.859	6.037	2.1782	0	50.52	39.63
10/15/2010 6:00	17464	1_60	2010	288	600	0.5194191	150.0044	40.27725	-0.002	0.139	0.066	0.728	2.529	4.07	1.54121	0	55.6	36.88
10/15/2010 7:00	17465	1_60	2010	288	700	1.543027	116.9854	11.20119	-0.007	0.344	0.006	0.182	1.088	3.609	2.521419	0	60.34	34.65
10/15/2010 8:00	17466	1_60	2010	288	800	0.7118776	73.25185	19.8566	0.567	3.56	0.439	2.827	5.565	5.94	0.3757602	0	44.91	43.74
10/15/2010 9:00	17467	1_60	2010	288	900	0.9785157	311.5353	32.90346	2.184	18.75	1.697	20.42	10.02	9.65	-0.3720607	0	32.32	52.07
10/15/2010 10:00	17468	1_60	2010	288	1000	1.091494	297.0121	43.38972	2.972	30.32	2.1	28.17	12.51	11.92	-0.5970731	0	27.11	56.83
10/15/2010 11:00	17469	1_60	2010	288	1100	1.48201	306.306	38.85999	0.192	29.87	-1.5	28.82	15.09	14.43	-0.659377	0	23.62	60.87
10/15/2010 12:00	17470	1_60	2010	288	1200	1.820211	295.0136	32.70719	2.577	33.6	2.973	34.05	17.99	17.15	-0.8312678	0	19.32	65.66
10/15/2010 13:00	17471	1_60	2010	288	1300	1.651736	303.6648	35.61853	3.619	33.22	1.416	31.53	21.16	20.37	-0.7874147	0	15.23	71.57
10/15/2010 14:00	17472	1_60	2010	288	1400	1.918315	225.1441	39.98632	0.342	33.55	6.688	35	23.45	22.37	-1.071934	0	14.5	75.02
10/15/2010 15:00	17473	1_60	2010	288	1500	2.685969	265.9367	32.95623	6.521	30.28	11.46	31.85	24.1	23.09	-1.01279	0	14.32	76.12
10/15/2010 16:00	17474	1_60	2010	288	1600	2.7327	317.183	27.46712	1.535	23.97	-3.547	25.24	23.93	23.26	-0.6657866	0	14.27	75.91
10/15/2010 17:00	17475	1_60	2010	288	1700	2.283795	287.8861	29.91755	0.939	16.97	1.331	17.14	23.25	22.86	-0.3919166	0	15.35	74.62
10/15/2010 18:00	17476	1_60	2010	288	1800	2.130826	277.7188	12.28143	-0.341	7.161	0.344	6.966	19.19	20.61	1.424796	0	20.84	67.33
10/15/2010 19:00	17477	1_60	2010	288	1900	1.898835	259.6457	24.05615	1.085	9.03	1.765	9.5	16.52	19.32	2.804846	0	24.32	62.38
10/15/2010 20:00	17478	1_60	2010	288	2000	1.705197	173.7163	20.78253	-0.127	3.256	0.772	4.526	13.14	16.6	3.461565	0	29.9	56.35
10/15/2010 21:00	17479	1_60	2010	288	2100	1.267429	169.6344	30.12152	0.001	0.175	0.006	0.096	11.05	16.67	5.616121	0	33.71	52.82
10/15/2010 22:00	17480	1_60	2010	288	2200	0.6725961	191.6433	62.78463	-0.008	1.526	-0.05	1.126	11.08	14.86	3.777304	0	34.81	52.29
10/15/2010 23:00	17481	1_60	2010	288	2300	1.645992	118.8984	14.51672	0.051	1.141	0.119	1.072	9.08	12.99	3.908849	0	38.75	49.5

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/13/2010 0:00	17410	1_60	2010	286	0	24.87	0.054	5.67	3.482	121.8	2306	13.34
10/13/2010 1:00	17411	1_60	2010	286	100	24.87	0.063	5.666	4.574	123.2	6	13.36
10/13/2010 2:00	17412	1_60	2010	286	200	24.88	0.037	5.664	3.106	114.8	115	13.39
10/13/2010 3:00	17413	1_60	2010	286	300	24.88	0.013	5.663	3.823	137.4	224	13.42
10/13/2010 4:00	17414	1_60	2010	286	400	24.89	0.035	5.66	4.028	122.5	335	13.44
10/13/2010 5:00	17415	1_60	2010	286	500	24.9	0.053	5.659	4.164	115.3	412	13.45
10/13/2010 6:00	17416	1_60	2010	286	600	24.91	0.06	5.658	2.15	96.6	545	13.48
10/13/2010 7:00	17417	1_60	2010	286	700	24.93	20.09	5.657	1.98	147.1	652	13.5
10/13/2010 8:00	17418	1_60	2010	286	800	24.94	179	5.655	2.014	269.1	719	13.46
10/13/2010 9:00	17419	1_60	2010	286	900	24.95	370.5	5.654	2.321	310	856	13.35
10/13/2010 10:00	17420	1_60	2010	286	1000	24.94	539.7	5.652	3.14	315.8	912	13.25
10/13/2010 11:00	17421	1_60	2010	286	1100	24.94	663.5	5.649	4.164	321.8	1011	13.18
10/13/2010 12:00	17422	1_60	2010	286	1200	24.91	736	5.646	3.516	250.4	1158	13.11
10/13/2010 13:00	17423	1_60	2010	286	1300	24.89	742.2	5.642	4.437	314.2	1255	13.06
10/13/2010 14:00	17424	1_60	2010	286	1400	24.87	685.5	5.633	5.598	323.7	1336	13.02
10/13/2010 15:00	17425	1_60	2010	286	1500	24.86	564.7	5.619	4.198	266.6	1415	13
10/13/2010 16:00	17426	1_60	2010	286	1600	24.86	393.6	5.605	4.574	298.5	1508	13
10/13/2010 17:00	17427	1_60	2010	286	1700	24.85	200.1	5.591	2.731	27.81	1601	13
10/13/2010 18:00	17428	1_60	2010	286	1800	24.86	19.28	5.579	4.779	12.75	1759	13.05
10/13/2010 19:00	17429	1_60	2010	286	1900	24.88	0.039	5.566	4.676	36.92	1800	13.13
10/13/2010 20:00	17430	1_60	2010	286	2000	24.89	0.027	5.557	3.345	311.1	1913	13.19
10/13/2010 21:00	17431	1_60	2010	286	2100	24.9	0.038	5.549	1.911	241.3	2039	13.24
10/13/2010 22:00	17432	1_60	2010	286	2200	24.92	0.053	5.541	4.915	125.4	2155	13.3
10/13/2010 23:00	17433	1_60	2010	286	2300	24.92	0.049	5.535	5.052	124	2201	13.33
10/14/2010 0:00	17434	1_60	2010	287	0	24.92	0.055	5.529	4.881	120.6	2305	13.35
10/14/2010 1:00	17435	1_60	2010	287	100	24.92	0.06	5.526	4.369	116.8	5	13.38
10/14/2010 2:00	17436	1_60	2010	287	200	24.93	0.016	5.523	2.492	132.4	159	13.41
10/14/2010 3:00	17437	1_60	2010	287	300	24.92	0.023	5.52	3.345	143.9	231	13.44
10/14/2010 4:00	17438	1_60	2010	287	400	24.93	0.057	5.518	2.219	137.6	326	13.46
10/14/2010 5:00	17439	1_60	2010	287	500	24.94	0.055	5.517	3.004	110.5	422	13.49
10/14/2010 6:00	17440	1_60	2010	287	600	24.94	0.048	5.516	1.946	120.6	539	13.51
10/14/2010 7:00	17441	1_60	2010	287	700	24.95	19.18	5.515	2.765	119.3	615	13.53
10/14/2010 8:00	17442	1_60	2010	287	800	24.97	179.5	5.513	2.082	129.4	700	13.49
10/14/2010 9:00	17443	1_60	2010	287	900	24.97	371.9	5.511	1.877	247.8	844	13.37
10/14/2010 10:00	17444	1_60	2010	287	1000	24.95	540.5	5.51	3.379	275.2	936	13.26
10/14/2010 11:00	17445	1_60	2010	287	1100	24.94	664.6	5.505	2.97	280.5	1051	13.18
10/14/2010 12:00	17446	1_60	2010	287	1200	24.91	735.2	5.502	3.925	280.6	1152	13.11
10/14/2010 13:00	17447	1_60	2010	287	1300	24.87	739.5	5.496	4.028	311.2	1253	13.06
10/14/2010 14:00	17448	1_60	2010	287	1400	24.85	678.6	5.487	5.222	269.9	1324	13.01
10/14/2010 15:00	17449	1_60	2010	287	1500	24.83	557.9	5.471	6.315	8.19	1423	13
10/14/2010 16:00	17450	1_60	2010	287	1600	24.82	391.6	5.454	6.451	292	1556	12.99
10/14/2010 17:00	17451	1_60	2010	287	1700	24.8	197.1	5.436	5.359	214.2	1617	13
10/14/2010 18:00	17452	1_60	2010	287	1800	24.8	16.97	5.421	4.54	261.6	1718	13.04
10/14/2010 19:00	17453	1_60	2010	287	1900	24.81	0.039	5.41	3.379	242.7	1807	13.12
10/14/2010 20:00	17454	1_60	2010	287	2000	24.82	0.032	5.401	3.584	82.6	1919	13.18
10/14/2010 21:00	17455	1_60	2010	287	2100	24.82	0.023	5.392	2.185	116.2	2023	13.25
10/14/2010 22:00	17456	1_60	2010	287	2200	24.83	0.042	5.385	2.867	116.9	2145	13.3
10/14/2010 23:00	17457	1_60	2010	287	2300	24.83	0.045	5.381	2.321	128.3	2232	13.34
10/15/2010 0:00	17458	1_60	2010	288	0	24.83	0.056	5.377	3.209	118.7	2357	13.38
10/15/2010 1:00	17459	1_60	2010	288	100	24.83	0.041	5.375	3.174	137.1	41	13.4
10/15/2010 2:00	17460	1_60	2010	288	200	24.84	0.012	5.372	2.219	110.8	104	13.44
10/15/2010 3:00	17461	1_60	2010	288	300	24.82	0.053	5.369	3.174	100.4	244	13.46
10/15/2010 4:00	17462	1_60	2010	288	400	24.82	0.055	5.367	3.174	101.4	317	13.49
10/15/2010 5:00	17463	1_60	2010	288	500	24.83	0.053	5.366	2.662	48.9	407	13.5
10/15/2010 6:00	17464	1_60	2010	288	600	24.83	0.051	5.364	1.638	202.8	512	13.51
10/15/2010 7:00	17465	1_60	2010	288	700	24.83	18.43	5.364	2.662	98.7	619	13.53
10/15/2010 8:00	17466	1_60	2010	288	800	24.85	175.2	5.363	1.673	92.3	724	13.5
10/15/2010 9:00	17467	1_60	2010	288	900	24.84	365.9	5.362	2.287	277.7	850	13.38
10/15/2010 10:00	17468	1_60	2010	288	1000	24.83	535.4	5.361	2.799	258.2	939	13.27
10/15/2010 11:00	17469	1_60	2010	288	1100	24.8	657.6	5.359	3.209	303.9	1058	13.18
10/15/2010 12:00	17470	1_60	2010	288	1200	24.78	726.3	5.356	3.584	298.2	1105	13.12
10/15/2010 13:00	17471	1_60	2010	288	1300	24.74	730.6	5.351	3.652	307.4	1258	13.06
10/15/2010 14:00	17472	1_60	2010	288	1400	24.72	668.7	5.341	4.813	252.7	1357	13.01
10/15/2010 15:00	17473	1_60	2010	288	1500	24.7	549.1	5.328	5.734	270.5	1442	12.99
10/15/2010 16:00	17474	1_60	2010	288	1600	24.69	379.7	5.312	5.803	329.9	1506	12.98
10/15/2010 17:00	17475	1_60	2010	288	1700	24.69	187.3	5.3	4.335	290.6	1600	12.99
10/15/2010 18:00	17476	1_60	2010	288	1800	24.7	14.64	5.288	4.608	290.4	1743	13.03
10/15/2010 19:00	17477	1_60	2010	288	1900	24.71	0.032	5.273	4.233	265.4	1838	13.11
10/15/2010 20:00	17478	1_60	2010	288	2000	24.72	0.034	5.261	2.458	218.6	1914	13.18
10/15/2010 21:00	17479	1_60	2010	288	2100	24.73	0.029	5.253	2.697	143.7	2008	13.24
10/15/2010 22:00	17480	1_60	2010	288	2200	24.74	0.042	5.245	2.253	170.7	2137	13.29
10/15/2010 23:00	17481	1_60	2010	288	2300	24.74	0.05	5.239	2.765	119	2259	13.32

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/16/2010 0:00	17482	1_60	2010	289	0	3.132463	132.2882	5.913849	0.603	3.134	7.637	6.424	8.22	11.64	3.426025	0	42.43	47.44
10/16/2010 1:00	17483	1_60	2010	289	100	2.062894	133.6158	23.13994	0.448	3.825	3.766	6.401	7.65	9.98	2.334252	0	44.63	46.46
10/16/2010 2:00	17484	1_60	2010	289	200	1.124177	123.653	31.80125	-0.043	2.3	0.049	2.577	6.736	9.03	2.289941	0	48.33	44.37
10/16/2010 3:00	17485	1_60	2010	289	300	1.321925	127.2387	19.52498	0.126	3.718	0.379	4.265	5.788	7.76	1.972533	0	51.01	43.05
10/16/2010 4:00	17486	1_60	2010	289	400	0.8268495	160.9816	36.24773	0	0.022	0.002	0.049	4.53	5.792	1.262247	0	55.9	40.69
10/16/2010 5:00	17487	1_60	2010	289	500	2.362817	100.6728	8.94643	0.178	2.362	0.147	3.067	3.94	5.355	1.414948	0	57.71	39.43
10/16/2010 6:00	17488	1_60	2010	289	600	2.48428	109.6763	10.27061	0.03	1.817	0.104	2.12	2.32	4.301	1.981025	0	62.93	36.63
10/16/2010 7:00	17489	1_60	2010	289	700	1.690063	115.4119	10.99722	0	0.164	-0.005	0.204	2.34	5.047	2.706363	0	63.82	36.68
10/16/2010 8:00	17490	1_60	2010	289	800	0.3626952	176.1699	55.41218	0.892	5.171	0.417	3.88	6.136	6.08	-0.05601176	0	49.23	45.73
10/16/2010 9:00	17491	1_60	2010	289	900	0.8975623	305.6649	39.09172	-1.626	18.28	-2.656	17.8	10.08	9.67	-0.4121218	0	37.83	52.5
10/16/2010 10:00	17492	1_60	2010	289	1000	1.04556	303.0816	36.18877	-2.379	25.63	-3.84	26.1	12.78	12.26	-0.5114571	0	30.8	57.26
10/16/2010 11:00	17493	1_60	2010	289	1100	1.630344	305.3113	30.43342	3.715	32.09	3.138	31.97	15.52	14.85	-0.6725342	0	26.64	61.59
10/16/2010 12:00	17494	1_60	2010	289	1200	1.948155	301.7047	24.41665	1.557	30.95	-0.436	31.98	18.73	17.9	-0.833261	0	21.76	66.86
10/16/2010 13:00	17495	1_60	2010	289	1300	1.800301	306.1369	33.94817	0.482	28.99	-0.915	32.5	21.93	21.19	-0.7393395	0	15.82	72.95
10/16/2010 14:00	17496	1_60	2010	289	1400	1.478821	233.8819	51.6582	4.315	38.26	6.248	37.69	23.73	22.92	-0.8039721	0	11.71	75.97
10/16/2010 15:00	17497	1_60	2010	289	1500	2.905021	276.1605	35.32973	2.723	29.52	6.349	33.04	24.56	23.63	-0.9308991	0	10.65	76.96
10/16/2010 16:00	17498	1_60	2010	289	1600	3.230963	281.6129	16.25177	1.225	23.92	3.806	27.05	24.51	23.78	-0.7382227	0	10.94	76.61
10/16/2010 17:00	17499	1_60	2010	289	1700	3.973504	263.4391	13.94412	2.532	21.23	12	22.54	23.51	23.15	-0.3571329	0	12.79	74.77
10/16/2010 18:00	17500	1_60	2010	289	1800	2.939358	277.1565	12.98255	1.171	9.81	4.238	12.38	19.17	20.6	1.432995	0	16.67	67.12
10/16/2010 19:00	17501	1_60	2010	289	1900	1.854689	255.0499	22.35622	-0.147	5.604	1.732	6.585	16.87	19.04	2.167819	0	20.11	62.74
10/16/2010 20:00	17502	1_60	2010	289	2000	1.523107	162.1174	17.29075	-0.035	0.964	0.157	1.507	13.02	17	3.98637	0	26.1	56.29
10/16/2010 21:00	17503	1_60	2010	289	2100	1.848459	161.3217	17.86072	0.02	0.725	0.736	2.754	10.79	15.25	4.459178	0	30.64	52.28
10/16/2010 22:00	17504	1_60	2010	289	2200	1.630144	148.0243	40.31295	0.097	4.282	2.958	7.657	10.82	14.28	3.462403	0	30.96	51.82
10/16/2010 23:00	17505	1_60	2010	289	2300	1.025906	84.58578	30.72993	-0.107	2.161	-0.034	2.716	9.97	12.6	2.633674	0	31.79	50.77
10/17/2010 0:00	17506	1_60	2010	290	0	0.7441587	211.6939	29.04838	0.122	2.157	0.254	2.684	8.99	11.52	2.524949	0	35.52	48.33
10/17/2010 1:00	17507	1_60	2010	290	100	1.049117	226.1459	30.95599	-0.004	0.469	0.045	0.743	7.24	9.05	1.811905	0	39.05	45.81
10/17/2010 2:00	17508	1_60	2010	290	200	1.673489	124.9307	12.17279	0.002	0.266	0.031	0.818	5.086	8.86	3.777168	0	46.13	41.69
10/17/2010 3:00	17509	1_60	2010	290	300	2.057325	110.8253	9.508403	-0.042	1.294	0.189	1.764	4.662	7.682	3.01983	0	48.16	40.95
10/17/2010 4:00	17510	1_60	2010	290	400	1.843408	125.9396	18.23359	0.105	1.325	0.114	1.478	3.457	5.377	1.919557	0	53.15	38.63
10/17/2010 5:00	17511	1_60	2010	290	500	1.275734	260.3025	26.12646	0.09	1.677	0.11	1.293	3.553	5.304	1.750701	0	52.76	38.86
10/17/2010 6:00	17512	1_60	2010	290	600	1.344228	115.1233	25.17818	0.522	2.659	0.013	0.224	2.884	4.814	1.930196	0	55.92	37.47
10/17/2010 7:00	17513	1_60	2010	290	700	1.488152	119.7611	22.6787	-0.003	0.115	0.002	0.189	2.559	5.441	2.88239	0	56.12	37.37
10/17/2010 8:00	17514	1_60	2010	290	800	0.4495896	93.01191	30.14216	0.207	1.607	0.317	1.951	6.174	7.374	1.199853	0	45.37	44.98
10/17/2010 9:00	17515	1_60	2010	290	900	0.8877198	321.4615	32.58104	2.81	18.16	1.715	16.42	11.22	10.87	-0.3477143	0	30.8	54.61
10/17/2010 10:00	17516	1_60	2010	290	1000	1.470202	298.9327	55.44554	1.1	26.11	0.962	27.04	13.78	13.2	-0.5780075	0	26.92	58.64
10/17/2010 11:00	17517	1_60	2010	290	1100	1.698922	310.8301	45.87789	-0.027	25.36	-0.138	27	15.18	14.66	-0.5184627	0	25.17	60.44
10/17/2010 12:00	17518	1_60	2010	290	1200	2.105679	290.7635	27.70518	7.572	26.32	7.165	27.97	15.91	15.15	-0.7634237	0	24.31	61.58
10/17/2010 13:00	17519	1_60	2010	290	1300	1.470117	324.2172	49.59468	2.653	31.37	0.733	32.24	19.63	18.91	-0.7242722	0	19.61	69.06
10/17/2010 14:00	17520	1_60	2010	290	1400	2.862068	188.048	29.3203	0.404	30.84	15.25	33.56	22.38	21.23	-1.155872	0	18.26	72.54
10/17/2010 15:00	17521	1_60	2010	290	1500	3.12114	8.106874	42.72842	5.505	23.5	-0.847	25.7	21.24	20.89	-0.358313	0	20.67	70.84
10/17/2010 16:00	17522	1_60	2010	290	1600	1.96804	106.7861	42.78459	3.576	18.42	7.481	19.12	21.1	20.69	-0.4128986	0	21.89	70.48
10/17/2010 17:00	17523	1_60	2010	290	1700	1.043283	187.6467	38.16817	-0.497	7.933	0.257	9.19	20.6	20.49	-0.1049835	0	22.96	69.68
10/17/2010 18:00	17524	1_60	2010	290	1800	2.005929	117.5878	17.159	-0.032	1.795	2.293	5.22	17.84	19.53	1.69574	0	27.62	64.77
10/17/2010 19:00	17525	1_60	2010	290	1900	2.093678	123.1872	29.1206	0.165	3.741	1.421	6.915	14.02	16.47	2.444062	0	34.1	57.88
10/17/2010 20:00	17526	1_60	2010	290	2000	1.13268	99.29481	29.08681	0.054	1.025	0.199	1.194	12.93	14.75	1.81626	0	36.65	55.67
10/17/2010 21:00	17527	1_60	2010	290	2100	1.731475	123.7466	14.88131	-0.095	1.797	0.261	2.477	11.75	14.65	2.908224	0	40.07	53.77
10/17/2010 22:00	17528	1_60	2010	290	2200	3.448095	128.683	9.016286	1.297	4.778	11.74	9.22	10.78	13.84	3.062901	0	43.46	52.05
10/17/2010 23:00	17529	1_60	2010	290	2300	1.606906	108.1263	47.45562	0.515	6.558	2.039	7.354	9.32	11.61	2.289452	0	48.2	49.33
10/18/2010 0:00	17530	1_60	2010	291	0	1.989798	127.9211	40.19323	0.699	5.154	5.987	11.13	6.939	9.51	2.56687	0	55.9	44.89
10/18/2010 1:00	17531	1_60	2010	291	100	3.153572	107.494	13.27804	3.983	11.16	6.511	13.12	8.51	9.28	0.7744101	0	52.23	47.46
10/18/2010 2:00	17532	1_60	2010	291	200	2.273956	123.3073	34.17056	2.33	8.61	4.556	9.89	9.81	10.63	0.8256082	0	48.12	49.85
10/18/2010 3:00	17533	1_60	2010	291	300	1.648496	301.2537	42.48784	0.172	2.913	0.195	2.827	8.43	9.38	0.9509761	0	53.42	47.38
10/18/2010 4:00	17534	1_60	2010	291	400	2.011134	102.7743	30.17571	0.107	4.478	0.538	4.975	8.81	9.68	0.8731458	0	53.41	47.96
10/18/2010 5:00	17535	1_60	2010	291	500	1.536479	107.15	80.21848	0.077	16.1	1.124	17.08	9.87	10.97	1.097285	0	53.94	49.81
10/18/2010 6:00	17536	1_60	2010	291	600	3.173938	70.33225	54.49346	2.095	21.58	2.554	24.23	10.48	10.97	0.4863365	0	60.9	51.07
10/18/2010 7:00	17537	1_60	2010	291	700	3.939057	125.9975	8.035032	6.718	11.73	16.63	13.2	9.37	9.71	0.3339566	0	67.09	49.04
10/18/2010 8:00	17538	1_60	2010	291	800	1.777041	83.95729	15.68341	1.209	5.129	2.436	7.297	10.49	10.69	0.2073907	0	59.16	51.22
10/18/2010 9:00	17539	1_60	2010	291	900	1.958877	310.7948	41.00398	1.696	14.04	-0.107	13.92	11.89	11.61	-0.2791554	0	55.43	54
10/18/2010 10:00	17540	1_60	2010	291	1000	2.662157	305.4506	14.71833	3.675	17.32	1.832	18.35	12.39	11.92	-0.474459	0	54.36	54.68
10/18/2010 11:00	17541	1_60	2010	291	1100	1.911774	322.5662	49.76522	9.43	32.28	6.398	33.61	15.47	14.58	-0.8903648	0	42	61.48
10/18/2010 12:00	17542	1_60	2010	291	1200	2.736661	317.6033	27.27752	1.348	32.71	-3.756	32.96	16.71	16	-0.7077992	0	39.43	63.07
10/18/2010 13:00	17543	1_60	2010	291	1300	4.662861	318.1436	11.85577	8.03	31.86	0.981	35.29	17.87	17	-0.8743769	0	37.8	64.39
10/18/2010 14:00	17544	1_60	2010	291	1400	6.136959	305.1431	12.00824	6.431	31.44	0.464	35.06	14.67	14.1	-0.5686035	0	58.37	58.55
10/18/2010 15:00	17545	1_60	2010	291	1500	2.234395	277.0644	15.4821	0.565	10.43	1.293	11.49	13.08	12.89	-0.1954122	0.01	75.42	55.81
10/18/2010 16:00	17546	1_60	2010	291	1600	0.9880146	305.558	38.01461	-0.39	8.57	-0.143	7.855	14.3	14.35	0.04934921	0.09	61.94	58.37
10/18/2010 17:00	17547	1_60	2010	291	1700	1.524762	274.2668	24.58759	0.523	4.243	-0.402	4.559	12.7	12.8	0.091776	0	81.5	55.22
10/18/2010 18:00	17548	1_60	2010	291	1800	2.316215	131.9389	18.48634	1.896	4.949	1.879	5.332	12.08	13.08	0.9974183	0	81.6	54.05
10/18/2010 19:00	17549	1_60	2010	291	1900	2.027747	109.8858	15.81344	2.13	8.13	1.803	9.36	11.4	12.51	1.112196	0	76.91	52.94
10/18/2010 20:00	17550	1_60	2010	291	2000	1.142239	131.246	52.53847	-0.947	6.491	-0.81	6.864	9.99	10.82	0.8253872	0	83.4	50.22
10/18/2010 21:00	17551	1_60	2010	291	2100	1.736588	139.3391	15.08121	-0.054	1.25	0.035	0.561	8.6	11.1	2.499279	0	82.8	48.01
10/18/2010 22:00	17552	1_60	2010	291	2200	1.722255	137.3845	8.400409	0.013	0.577	0.023	0.328	7.744	9.62	1.875195	0	85.8	46.09
10/18/2010 23:00	17553	1_60	2010	291	2300	1.500781	123.3469	21.65732	0.111	1.101	0.206	1.15	7.742	9.34	1.602632	0	86.9	46.54

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg inHg	SolarRad_Avg W/m²	EvapLevel_Avg in	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/16/2010 0:00	17482	1_60	2010	289	0	24.74	0.058	5.235	4.062	128.9	2349	13.36
10/16/2010 1:00	17483	1_60	2010	289	100	24.75	0.055	5.232	3.618	132.9	17	13.38
10/16/2010 2:00	17484	1_60	2010	289	200	24.75	0.022	5.229	2.662	116.1	154	13.41
10/16/2010 3:00	17485	1_60	2010	289	300	24.76	0.014	5.228	2.867	114.3	233	13.42
10/16/2010 4:00	17486	1_60	2010	289	400	24.76	0.045	5.227	1.604	202.7	303	13.45
10/16/2010 5:00	17487	1_60	2010	289	500	24.77	0.062	5.225	3.379	91.2	458	13.47
10/16/2010 6:00	17488	1_60	2010	289	600	24.77	0.063	5.223	3.447	101	536	13.49
10/16/2010 7:00	17489	1_60	2010	289	700	24.78	16.7	5.223	2.594	104.1	609	13.51
10/16/2010 8:00	17490	1_60	2010	289	800	24.79	170.8	5.221	1.297	188.9	701	13.48
10/16/2010 9:00	17491	1_60	2010	289	900	24.79	361.1	5.217	2.492	309.7	843	13.36
10/16/2010 10:00	17492	1_60	2010	289	1000	24.78	531.8	5.216	2.935	295.1	952	13.26
10/16/2010 11:00	17493	1_60	2010	289	1100	24.76	655.7	5.214	3.516	328.1	1045	13.17
10/16/2010 12:00	17494	1_60	2010	289	1200	24.73	727.1	5.209	3.959	305.5	1140	13.11
10/16/2010 13:00	17495	1_60	2010	289	1300	24.7	734.9	5.204	4.062	277.8	1246	13.05
10/16/2010 14:00	17496	1_60	2010	289	1400	24.68	675.2	5.194	4.198	286.6	1305	13
10/16/2010 15:00	17497	1_60	2010	289	1500	24.67	547.3	5.18	6.349	289.4	1450	12.98
10/16/2010 16:00	17498	1_60	2010	289	1600	24.66	372.7	5.16	5.666	282.1	1515	12.98
10/16/2010 17:00	17499	1_60	2010	289	1700	24.66	177.1	5.138	7.782	251.3	1634	12.99
10/16/2010 18:00	17500	1_60	2010	289	1800	24.68	12.9	5.121	5.393	248.4	1702	13.04
10/16/2010 19:00	17501	1_60	2010	289	1900	24.69	0.027	5.11	3.345	254.4	1820	13.11
10/16/2010 20:00	17502	1_60	2010	289	2000	24.69	0.035	5.103	3.413	130.7	1957	13.18
10/16/2010 21:00	17503	1_60	2010	289	2100	24.7	0.034	5.095	3.379	151.3	2008	13.25
10/16/2010 22:00	17504	1_60	2010	289	2200	24.71	0.033	5.089	3.379	141	2142	13.3
10/16/2010 23:00	17505	1_60	2010	289	2300	24.71	0.059	5.085	2.116	166	2202	13.32
10/17/2010 0:00	17506	1_60	2010	290	0	24.71	0.053	5.083	1.638	124.5	2326	13.36
10/17/2010 1:00	17507	1_60	2010	290	100	24.71	0.055	5.081	1.707	290.8	15	13.38
10/17/2010 2:00	17508	1_60	2010	290	200	24.71	0.012	5.078	2.662	106.4	118	13.42
10/17/2010 3:00	17509	1_60	2010	290	300	24.71	0.023	5.075	3.174	94.8	244	13.45
10/17/2010 4:00	17510	1_60	2010	290	400	24.71	0.048	5.073	3.652	85.4	303	13.47
10/17/2010 5:00	17511	1_60	2010	290	500	24.72	0.062	5.072	2.697	319.5	446	13.49
10/17/2010 6:00	17512	1_60	2010	290	600	24.72	0.057	5.071	2.253	35.81	501	13.5
10/17/2010 7:00	17513	1_60	2010	290	700	24.72	15.6	5.07	2.526	106	635	13.51
10/17/2010 8:00	17514	1_60	2010	290	800	24.74	168.9	5.069	1.502	82	700	13.48
10/17/2010 9:00	17515	1_60	2010	290	900	24.75	356.9	5.066	2.287	328.3	850	13.36
10/17/2010 10:00	17516	1_60	2010	290	1000	24.73	482.9	5.063	3.55	302.2	947	13.25
10/17/2010 11:00	17517	1_60	2010	290	1100	24.72	346.9	5.059	7.987	289.7	1049	13.18
10/17/2010 12:00	17518	1_60	2010	290	1200	24.69	508.5	5.056	5.905	327.2	1102	13.15
10/17/2010 13:00	17519	1_60	2010	290	1300	24.65	621.6	5.053	5.359	256.1	1242	13.1
10/17/2010 14:00	17520	1_60	2010	290	1400	24.63	630.6	5.047	8.6	204.5	1342	13.04
10/17/2010 15:00	17521	1_60	2010	290	1500	24.62	174.8	5.036	9.25	241.7	1455	13.02
10/17/2010 16:00	17522	1_60	2010	290	1600	24.61	215.6	5.026	8.29	238.7	1501	13.04
10/17/2010 17:00	17523	1_60	2010	290	1700	24.6	104.2	5.019	5.598	266.1	1635	13.06
10/17/2010 18:00	17524	1_60	2010	290	1800	24.6	17.04	5.013	3.311	210.6	1754	13.09
10/17/2010 19:00	17525	1_60	2010	290	1900	24.61	0.032	5.005	3.243	156.2	1812	13.15
10/17/2010 20:00	17526	1_60	2010	290	2000	24.61	0.037	4.998	2.935	54.52	1935	13.21
10/17/2010 21:00	17527	1_60	2010	290	2100	24.62	0.011	4.991	3.038	139.4	2045	13.26
10/17/2010 22:00	17528	1_60	2010	290	2200	24.62	0.057	4.987	4.642	114.6	2159	13.29
10/17/2010 23:00	17529	1_60	2010	290	2300	24.63	0.061	4.983	3.891	133.1	2210	13.31
10/18/2010 0:00	17530	1_60	2010	291	0	24.63	0.057	4.979	4.301	40.83	2359	13.35
10/18/2010 1:00	17531	1_60	2010	291	100	24.62	0.059	4.974	5.564	103.6	48	13.37
10/18/2010 2:00	17532	1_60	2010	291	200	24.62	0.021	4.97	4.267	119.8	103	13.36
10/18/2010 3:00	17533	1_60	2010	291	300	24.64	0.079	4.969	3.516	346.1	215	13.34
10/18/2010 4:00	17534	1_60	2010	291	400	24.66	0.062	4.963	3.004	90.1	342	13.34
10/18/2010 5:00	17535	1_60	2010	291	500	24.66	0.033	4.961	4.676	284.5	455	13.33
10/18/2010 6:00	17536	1_60	2010	291	600	24.66	0.038	4.962	6.315	135.7	559	13.33
10/18/2010 7:00	17537	1_60	2010	291	700	24.66	5.391	4.961	6.007	135.7	600	13.32
10/18/2010 8:00	17538	1_60	2010	291	800	24.67	78.47	4.961	4.881	117.7	700	13.32
10/18/2010 9:00	17539	1_60	2010	291	900	24.68	170.9	4.959	4.676	321.3	842	13.29
10/18/2010 10:00	17540	1_60	2010	291	1000	24.67	280.9	4.956	4.608	301.3	926	13.26
10/18/2010 11:00	17541	1_60	2010	291	1100	24.66	721.6	4.954	4.335	295.1	1018	13.19
10/18/2010 12:00	17542	1_60	2010	291	1200	24.64	451.6	4.95	5.222	291.4	1154	13.12
10/18/2010 13:00	17543	1_60	2010	291	1300	24.62	446.5	4.942	9.56	289.5	1248	13.1
10/18/2010 14:00	17544	1_60	2010	291	1400	24.62	180.4	4.928	9.49	290.2	1313	13.11
10/18/2010 15:00	17545	1_60	2010	291	1500	24.62	189 AQ		5.393	266.4	1400	13.17
10/18/2010 16:00	17546	1_60	2010	291	1600	24.62	96.5 AQ		6.519	274.8	1549	13.18
10/18/2010 17:00	17547	1_60	2010	291	1700	24.63	99	4.971	3.618	340.4	1611	13.18
10/18/2010 18:00	17548	1_60	2010	291	1800	24.64	14.93	4.97	4.54	57.24	1759	13.22
10/18/2010 19:00	17549	1_60	2010	291	1900	24.66	0.038	4.968	4.949	60.12	1801	13.26
10/18/2010 20:00	17550	1_60	2010	291	2000	24.66	0.067	4.967	2.765	108.6	1934	13.28
10/18/2010 21:00	17551	1_60	2010	291	2100	24.66	0.075	4.967	2.799	135.2	2040	13.31
10/18/2010 22:00	17552	1_60	2010	291	2200	24.68	0.069	4.967	3.038	132.2	2139	13.35
10/18/2010 23:00	17553	1_60	2010	291	2300	24.67	0.07	4.967	3.413	124.7	2255	13.36

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/19/2010 0:00	17554	1_60	2010	292	0	3.278885	119.8651	7.814748	4.733	10.21	8.35	11.48	8.52	9.18	0.6581901	0	86.8	47.4
10/19/2010 1:00	17555	1_60	2010	292	100	3.188654	125.3902	5.957355	4.574	8.53	8.89	8.79	8.91	9.44	0.5289569	0	82.6	48.2
10/19/2010 2:00	17556	1_60	2010	292	200	3.878867	122.6832	5.751614	7.956	12.01	15.47	11.96	8.86	9.36	0.4978219	0	79.62	48.12
10/19/2010 3:00	17557	1_60	2010	292	300	2.068084	132.4687	10.68081	0.749	2.769	2.95	5.375	7.469	8.34	0.8751203	0	81.6	45.82
10/19/2010 4:00	17558	1_60	2010	292	400	1.665251	115.9608	19.1692	0.884	5.398	1.007	5.463	7.116	7.779	0.6627148	0	85.5	44.93
10/19/2010 5:00	17559	1_60	2010	292	500	1.105915	139.0283	35.19017	-0.16	4.907	0.497	4.517	6.56	7.488	0.9275553	0	88.1	44.12
10/19/2010 6:00	17560	1_60	2010	292	600	1.04388	129.2649	20.52107	0.003	0.085	0.003	0.048	4.95	6.2	1.250707	0	91.4	41.36
10/19/2010 7:00	17561	1_60	2010	292	700	1.085583	123.8251	13.92237	-0.001	0.069	0.003	0.05	4.022	5.572	1.550348	0	91.5	39.76
10/19/2010 8:00	17562	1_60	2010	292	800	0.2862067	300.1048	37.6838	0.356	2.763	0.183	1.722	5.662	5.924	0.26186	0	84	44.4
10/19/2010 9:00	17563	1_60	2010	292	900	0.510521	92.66571	57.18163	2.809	16.47	2.786	15.19	9.66	9.26	-0.398881	0	67.82	52.25
10/19/2010 10:00	17564	1_60	2010	292	1000	0.7177088	321.5341	60.10763	-0.103	27.34	-0.307	23.6	11.7	11.28	-0.4280091	0	58.4	55.56
10/19/2010 11:00	17565	1_60	2010	292	1100	1.072466	282.952	62.12673	4.55	27.78	5.125	25.13	13.78	13.18	-0.5934826	0	54.01	59.07
10/19/2010 12:00	17566	1_60	2010	292	1200	1.082253	306.2567	46.54705	1.421	26.76	0.072	24.69	15.9	15.27	-0.6219437	0	47.09	62.91
10/19/2010 13:00	17567	1_60	2010	292	1300	1.630055	273.3325	44.69616	2.734	34.49	3.729	35.17	17.9	17.08	-0.8222963	0	36.41	65.99
10/19/2010 14:00	17568	1_60	2010	292	1400	1.719859	151.1934	65.42553	0.815	32.51	4.471	32.98	19.3	18.35	-0.9501401	0	29.67	67.37
10/19/2010 15:00	17569	1_60	2010	292	1500	1.413428	225.2686	56.30524	6.792	31.57	11.77	30.72	20.08	19.24	-0.8465348	0	28.31	69.41
10/19/2010 16:00	17570	1_60	2010	292	1600	2.611788	263.9471	20.00842	1.608	25.07	6.485	26.34	20.19	19.42	-0.7725943	0	28.25	69.14
10/19/2010 17:00	17571	1_60	2010	292	1700	2.172323	253.7265	11.62484	1.884	15.49	7.209	16.55	19.51	19.04	-0.4715785	0	29.71	67.97
10/19/2010 18:00	17572	1_60	2010	292	1800	1.084782	276.3994	26.29641	0.413	3.415	0.242	2.387	15.08	17.34	2.258725	0	38.86	60.08
10/19/2010 19:00	17573	1_60	2010	292	1900	2.267956	270.409	36.09531	-0.788	10.63	0.455	11.82	14.43	16.56	2.129885	0	42.85	58.28
10/19/2010 20:00	17574	1_60	2010	292	2000	3.45383	302.3426	9.148604	0.715	10.5	-0.373	10.74	14.82	16.54	1.725162	0	38.52	59.03
10/19/2010 21:00	17575	1_60	2010	292	2100	1.116927	184.3871	39.53354	0.923	9.63	2.321	11.06	11.59	14.23	2.640033	0	43.72	53.61
10/19/2010 22:00	17576	1_60	2010	292	2200	2.489772	140.157	7.587043	0.052	3.463	3.119	6.481	8.63	12.22	3.589368	0	50.82	48.14
10/19/2010 23:00	17577	1_60	2010	292	2300	2.619263	133.5003	9.000337	0.419	3.439	3.119	6.227	7.962	11.16	3.195065	0	54.77	46.8
10/20/2010 0:00	17578	1_60	2010	293	0	3.419939	126.6504	5.33382	1.377	4.273	7.946	7.291	7.551	9.95	2.395321	0	62.89	46.13
10/20/2010 1:00	17579	1_60	2010	293	100	3.506988	129.0373	4.692787	1.075	4.293	9.43	6.733	6.291	8.98	2.692548	0	68.39	43.71
10/20/2010 2:00	17580	1_60	2010	293	200	1.736249	123.0287	24.56634	1.682	6.645	3.795	8.42	6.122	7.543	1.420548	0	69.44	43.4
10/20/2010 3:00	17581	1_60	2010	293	300	1.489403	121.4721	25.36027	0.188	1.999	0.333	2.462	5.513	7.033	1.519194	0	71.93	42.18
10/20/2010 4:00	17582	1_60	2010	293	400	1.57873	100.4563	28.70512	0.076	1.503	0.108	0.872	3.944	5.362	1.418268	0	76.11	39.57
10/20/2010 5:00	17583	1_60	2010	293	500	2.149146	101.7993	12.93357	0.015	0.811	0.004	0.134	1.947	3.965	2.01791	0	82.2	36.03
10/20/2010 6:00	17584	1_60	2010	293	600	2.183815	108.1423	9.594697	0.449	2.522	0.213	1.855	3.023	4.589	1.565669	0	79.3	37.7
10/20/2010 7:00	17585	1_60	2010	293	700	2.02228	117.6783	15.97076	0.234	3.741	0.294	3.714	2.161	3.655	1.494465	0	80.3	36.42
10/20/2010 8:00	17586	1_60	2010	293	800	0.4718349	117.3016	26.5734	0.824	5.28	0.544	3.385	5.645	6.107	0.4625557	0	68	44.11
10/20/2010 9:00	17587	1_60	2010	293	900	0.6941829	37.24543	48.1985	1.765	21.58	0.474	17.99	9.41	9.07	-0.3372332	0	51.62	51.63
10/20/2010 10:00	17588	1_60	2010	293	1000	1.173388	320.1916	32.04411	2.754	27.29	-0.449	26.16	11.81	11.3	-0.5088727	0	45.63	55.27
10/20/2010 11:00	17589	1_60	2010	293	1100	1.396989	324.7407	44.67738	4.149	31.75	1.132	30.64	14.21	13.59	-0.6183507	0	39.22	59.41
10/20/2010 12:00	17590	1_60	2010	293	1200	1.447987	313.4503	34.15644	-0.941	28.8	-3.597	28.83	16.8	16.1	-0.6997147	0	32.79	63.96
10/20/2010 13:00	17591	1_60	2010	293	1300	2.024328	299.7813	26.71382	4.048	29.11	2.487	29	19.75	18.92	-0.8270196	0	27.72	68.61
10/20/2010 14:00	17592	1_60	2010	293	1400	2.420382	294.6595	28.6236	0.276	27.42	-0.181	27.35	22.24	21.36	-0.8794341	0	22.14	72.68
10/20/2010 15:00	17593	1_60	2010	293	1500	2.154292	307.3323	42.51133	5.384	30.13	3.997	30.72	23.44	22.76	-0.6763307	0	16.91	75.3
10/20/2010 16:00	17594	1_60	2010	293	1600	4.050479	284.7423	11.08086	2.533	27.83	5.069	30.33	23.78	23	-0.7849718	0	15.58	75.07
10/20/2010 17:00	17595	1_60	2010	293	1700	2.601629	306.7597	34.15326	1.662	11.76	1.546	12.32	22.27	22.21	-0.0616987	0	17.88	72.48
10/20/2010 18:00	17596	1_60	2010	293	1800	2.57536	176.7204	16.59022	0.745	5.823	10.5	11.65	19.62	20.67	1.053599	0	22.55	67.59
10/20/2010 19:00	17597	1_60	2010	293	1900	2.731847	266.1151	35.76839	0.33	8.96	4.26	11.44	17.65	19.32	1.669279	0	27.71	64.22
10/20/2010 20:00	17598	1_60	2010	293	2000	8.451245	212.2506	9.38958	3.425	48.63	58.02	51.11	16.06	16.34	0.2781342	0	39.85	61.11
10/20/2010 21:00	17599	1_60	2010	293	2100	11.09986	212.6964	8.908851	0.262	60.61	74.08	61.27	14.18	14.27	0.08832894	0	51.88	57.65
10/20/2010 22:00	17600	1_60	2010	293	2200	9.121215	219.1072	11.18551	7.61	61.27	64.46	59.31	13.01	13.03	0.02393767	0	61.75	55.52
10/20/2010 23:00	17601	1_60	2010	293	2300	6.063968	226.993	32.12374	3.027	52.48	33.84	59.47	12.16	12.15	-0.001591975	0	64.68	53.94
10/21/2010 0:00	17602	1_60	2010	294	0	1.253542	39.2461	56.99098	1.661	12.35	0.081	12.77	11.79	11.98	0.1952398	0	65.73	53.37
10/21/2010 1:00	17603	1_60	2010	294	100	2.435945	81.67211	32.72975	5.408	21.15	8.65	22.76	11.3	11.56	0.2637907	0.01	68.59	52.52
10/21/2010 2:00	17604	1_60	2010	294	200	3.502583	123.7525	7.556077	6.275	11.5	11.94	12.63	9.4	9.76	0.3561651	0.01	84.6	49.19
10/21/2010 3:00	17605	1_60	2010	294	300	3.587536	149.6661	14.91823	7.043	13.1	19.75	15.47	8.83	9.22	0.3928176	0	87.5	48.04
10/21/2010 4:00	17606	1_60	2010	294	400	2.878798	150.6138	25.73199	3.848	14.3	13.52	17.35	9.37	9.73	0.3665931	0	81.8	48.98
10/21/2010 5:00	17607	1_60	2010	294	500	2.93998	311.2195	14.30104	1.953	8.2	2.171	7.761	8.58	8.83	0.247408	0	86.6	47.69
10/21/2010 6:00	17608	1_60	2010	294	600	2.804096	301.0559	24.97617	1.177	8.9	-0.064	8.54	8.69	9.12	0.4249318	0	85.1	47.78
10/21/2010 7:00	17609	1_60	2010	294	700	2.154402	129.033	20.74152	1.62	5.719	3.353	8.31	8	8.6	0.5945036	0	87.8	46.6
10/21/2010 8:00	17610	1_60	2010	294	800	1.830536	130.1281	17.87506	1.418	5.283	1.382	4.444	8.2	8.37	0.1663635	0	88.1	46.92
10/21/2010 9:00	17611	1_60	2010	294	900	1.59667	92.41654	12.20945	3.425	9.31	2.932	8.39	10.64	10.37	-0.2637779	0	75.85	51.61
10/21/2010 10:00	17612	1_60	2010	294	1000	0.8587053	12.76865	36.62007	1.753	14.92	0.947	12.04	12.54	12.26	-0.2840542	0	59.2	55.93
10/21/2010 11:00	17613	1_60	2010	294	1100	1.606683	292.2906	25.63219	0.769	25.95	0.979	24.27	13.63	13.1	-0.5277745	0	55.75	57.63
10/21/2010 12:00	17614	1_60	2010	294	1200	1.801666	288.162	29.33692	3.577	29.4	1.774	26.86	15.17	14.57	-0.6050113	0	48.55	60.21
10/21/2010 13:00	17615	1_60	2010	294	1300	2.044302	315.7797	25.07763	0.435	25.97	-3.083	25.7	16.17	15.58	-0.5868716	0	43.42	61.93
10/21/2010 14:00	17616	1_60	2010	294	1400	1.510846	279.7853	38.9479	0.404	26.48	2.43	25.91	16.33	15.94	-0.3906915	0	40.02	61.96
10/21/2010 15:00	17617	1_60	2010	294	1500	1.352046	60.66347	42.77743	1.878	12.89	-0.539	11.62	16.47	16.18	-0.2946948	0	39.68	62.13
10/21/2010 16:00	17618	1_60	2010	294	1600	1.428449	241.0255	21.52194	1.043	9.57	1.739	8.45	16.5	16.35	-0.1507786	0	40.31	62
10/21/2010 17:00	17619	1_60	2010	294	1700	4.703047	172.2159	20.03793	6.246	31.24	25.83	34.03	14.65	14.57	-0.08129194	0	46.54	58.55
10/21/2010 18:00	17620	1_60	2010	294	1800	4.023453	111.7794	8.489944	9.32	15.22	13.04	16.1	10.14	10.44	0.3011849	0.12	79.73	50.51
10/21/2010 19:00	17621	1_60	2010	294	1900	2.405968	132.6132	31.53587	3.319	7.973	5.797	10.07	8.98	9.02	0.03936997	0.06	92.1	48.26
10/21/2010 20:00	17622	1_60	2010	294	2000	3.054951	112.8465	33.56335	4.692	12.93	8.69	15.38	8.93	9.02	0.09032937	0	92.7	48.1
10/21/2010 21:00	17623	1_60	2010	294	2100	2.80028	137.1337	8.737157	4.254	9.51	9.97	11.72	8.91	9.16	0.2494094	0	90.9	48.2
10/21/2010 22:00	17624	1_60	2010	294	2200	1.714283	152.9042	15.46172	0.157	2.05	1.87	4.861	7.936	8.7	0.7661487	0	89.9	46.66
10/21/2010 23:00	17625	1_60	2010	294	2300	1.168945	144.255	20.30845	-0.004	0.109	-0.001	0.134	7.144	8.4	1.25231	0	90.8	45.1

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/19/2010 0:00	17554	1_60	2010	292	0	24.68	0.06	4.967	5.325	124.3	2325	13.36
10/19/2010 1:00	17555	1_60	2010	292	100	24.68	0.068	4.967	4.506	127.1	4	13.35
10/19/2010 2:00	17556	1_60	2010	292	200	24.69	0.084	4.967	5.257	122.1	135	13.34
10/19/2010 3:00	17557	1_60	2010	292	300	24.69	0.071	4.967	3.652	129.8	205	13.35
10/19/2010 4:00	17558	1_60	2010	292	400	24.69	0.061	4.967	3.277	127.6	324	13.37
10/19/2010 5:00	17559	1_60	2010	292	500	24.7	0.061	4.967	2.935	149.7	421	13.37
10/19/2010 6:00	17560	1_60	2010	292	600	24.7	0.033	4.967	1.911	64.45	504	13.4
10/19/2010 7:00	17561	1_60	2010	292	700	24.71	16.09	4.967	2.048	118.5	632	13.44
10/19/2010 8:00	17562	1_60	2010	292	800	24.73	164.2	4.967	1.263	314	720	13.42
10/19/2010 9:00	17563	1_60	2010	292	900	24.74	325.8	4.967	2.321	53.16	844	13.34
10/19/2010 10:00	17564	1_60	2010	292	1000	24.73	502	4.967	2.048	282.8	924	13.26
10/19/2010 11:00	17565	1_60	2010	292	1100	24.72	615.3	4.967	2.935	298.4	1053	13.19
10/19/2010 12:00	17566	1_60	2010	292	1200	24.7	686.7	4.967	3.14	278.1	1159	13.13
10/19/2010 13:00	17567	1_60	2010	292	1300	24.68	706.3	4.967	4.983	301.4	1258	13.08
10/19/2010 14:00	17568	1_60	2010	292	1400	24.65	644.2	4.966	4.983	166.1	1346	13.01
10/19/2010 15:00	17569	1_60	2010	292	1500	24.65	524	4.96	3.857	259.3	1455	12.99
10/19/2010 16:00	17570	1_60	2010	292	1600	24.64	355.1	4.946	4.574	247.6	1520	13.02
10/19/2010 17:00	17571	1_60	2010	292	1700	24.63	167.2	4.934	4.369	249.7	1604	13.04
10/19/2010 18:00	17572	1_60	2010	292	1800	24.64	7.07	4.927	2.082	256.9	1710	13.09
10/19/2010 19:00	17573	1_60	2010	292	1900	24.65	0.033	4.92	4.949	292.1	1855	13.17
10/19/2010 20:00	17574	1_60	2010	292	2000	24.67	0.038	4.913	6.076	288.2	1924	13.21
10/19/2010 21:00	17575	1_60	2010	292	2100	24.67	0.041	4.907	3.618	295.8	2000	13.25
10/19/2010 22:00	17576	1_60	2010	292	2200	24.69	0.042	4.903	3.584	149	2141	13.3
10/19/2010 23:00	17577	1_60	2010	292	2300	24.68	0.05	4.899	3.925	104	2252	13.34
10/20/2010 0:00	17578	1_60	2010	293	0	24.69	0.065	4.896	4.642	123.4	2340	13.37
10/20/2010 1:00	17579	1_60	2010	293	100	24.69	0.047	4.894	4.642	126.6	29	13.39
10/20/2010 2:00	17580	1_60	2010	293	200	24.7	0.022	4.893	4.983	131.4	103	13.42
10/20/2010 3:00	17581	1_60	2010	293	300	24.7	0.018	4.891	3.379	86.3	252	13.43
10/20/2010 4:00	17582	1_60	2010	293	400	24.7	0.045	4.89	2.833	102.2	300	13.46
10/20/2010 5:00	17583	1_60	2010	293	500	24.71	0.061	4.889	3.447	88	437	13.48
10/20/2010 6:00	17584	1_60	2010	293	600	24.72	0.049	4.888	3.243	84.4	531	13.51
10/20/2010 7:00	17585	1_60	2010	293	700	24.72	12.33	4.887	3.686	100	608	13.52
10/20/2010 8:00	17586	1_60	2010	293	800	24.74	153	4.887	1.399	118.8	728	13.49
10/20/2010 9:00	17587	1_60	2010	293	900	24.74	337.9	4.884	1.673	87.3	848	13.38
10/20/2010 10:00	17588	1_60	2010	293	1000	24.73	505	4.882	2.628	336.9	918	13.28
10/20/2010 11:00	17589	1_60	2010	293	1100	24.71	627.7	4.878	3.789	290.6	1059	13.2
10/20/2010 12:00	17590	1_60	2010	293	1200	24.68	696.6	4.874	3.652	318.4	1143	13.13
10/20/2010 13:00	17591	1_60	2010	293	1300	24.63	700.4	4.867	4.028	286.5	1244	13.08
10/20/2010 14:00	17592	1_60	2010	293	1400	24.6	632.2	4.858	4.949	296	1354	13.03
10/20/2010 15:00	17593	1_60	2010	293	1500	24.58	498.5	4.846	5.564	286.1	1451	13
10/20/2010 16:00	17594	1_60	2010	293	1600	24.57	378	4.831	5.973	293.1	1546	13
10/20/2010 17:00	17595	1_60	2010	293	1700	24.57	112.3	4.818	5.359	282.4	1603	13.01
10/20/2010 18:00	17596	1_60	2010	293	1800	24.58	6.108	4.81	4.403	189.8	1730	13.05
10/20/2010 19:00	17597	1_60	2010	293	1900	24.59	0.017	4.801	5.393	259	1854	13.1
10/20/2010 20:00	17598	1_60	2010	293	2000	24.62	0.039	4.794	16.11	204.4	1956	13.15
10/20/2010 21:00	17599	1_60	2010	293	2100	24.65	0.035	4.782	17.31	214.6	2005	13.18
10/20/2010 22:00	17600	1_60	2010	293	2200	24.69	0.054	4.768	16.11	230.8	2152	13.21
10/20/2010 23:00	17601	1_60	2010	293	2300	24.71	0.039	4.757	14.88	237	2200	13.24
10/21/2010 0:00	17602	1_60	2010	294	0	24.72	0.035	4.753	4.164	45.16	2301	13.26
10/21/2010 1:00	17603	1_60	2010	294	100	24.71	0.047 AQ		6.861	121	47	13.27
10/21/2010 2:00	17604	1_60	2010	294	200	24.69	0.07	4.756	5.734	112.7	118	13.3
10/21/2010 3:00	17605	1_60	2010	294	300	24.65	0.083	4.756	6.212	149	208	13.32
10/21/2010 4:00	17606	1_60	2010	294	400	24.64	0.095	4.756	5.7	168.7	329	13.33
10/21/2010 5:00	17607	1_60	2010	294	500	24.62	0.095	4.756	5.734	262.5	459	13.33
10/21/2010 6:00	17608	1_60	2010	294	600	24.61	0.093	4.756	6.144	287.3	502	13.34
10/21/2010 7:00	17609	1_60	2010	294	700	24.62	4.836	4.756	4.062	87.6	659	13.35
10/21/2010 8:00	17610	1_60	2010	294	800	24.62	79.28	4.756	4.54	86.8	703	13.34
10/21/2010 9:00	17611	1_60	2010	294	900	24.62	207.4	4.756	2.765	109	830	13.32
10/21/2010 10:00	17612	1_60	2010	294	1000	24.61	257.3	4.756	2.901	291.2	956	13.28
10/21/2010 11:00	17613	1_60	2010	294	1100	24.6	414.9	4.756	3.106	309.7	1020	13.23
10/21/2010 12:00	17614	1_60	2010	294	1200	24.57	475.3	4.755	3.925	280	1145	13.18
10/21/2010 13:00	17615	1_60	2010	294	1300	24.54	385.1	4.752	4.574	287.7	1238	13.14
10/21/2010 14:00	17616	1_60	2010	294	1400	24.51	225	4.747	3.857	273.9	1333	13.13
10/21/2010 15:00	17617	1_60	2010	294	1500	24.5	161.4	4.742	2.799	55.59	1444	13.13
10/21/2010 16:00	17618	1_60	2010	294	1600	24.49	77.76	4.736	3.038	215.8	1536	13.14
10/21/2010 17:00	17619	1_60	2010	294	1700	24.51	24.28	4.731	12.32	84.1	1656	13.16
10/21/2010 18:00	17620	1_60	2010	294	1800	24.55	0.864 AQ		8.91	86.8	1700	13.21
10/21/2010 19:00	17621	1_60	2010	294	1900	24.55	0.05 AQ		5.393	111.6	1804	13.28
10/21/2010 20:00	17622	1_60	2010	294	2000	24.55	0.08 AQ		6.963	112.9	1948	13.31
10/21/2010 21:00	17623	1_60	2010	294	2100	24.55	0.084	4.851	5.188	135.4	2025	13.33
10/21/2010 22:00	17624	1_60	2010	294	2200	24.55	0.083	4.85	2.765	166.4	2133	13.34
10/21/2010 23:00	17625	1_60	2010	294	2300	24.54	0.071	4.85	2.082	146.7	2224	13.37

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/22/2010 0:00	17626	1_60	2010	295	0	0.8114058	205.6019	46.02939	-0.002	0.085	-0.006	0.127	7.235	7.916	0.6810397	0	92.9	45.12
10/22/2010 1:00	17627	1_60	2010	295	100	0.7330931	124.1762	21.06277	0	0.038	-0.016	0.418	7.158	7.497	0.3389006	0	94.5	45.05
10/22/2010 2:00	17628	1_60	2010	295	200	1.436105	127.6394	11.48655	0.01	0.924	0.042	0.645	7.217	7.644	0.4268494	0	95.3	45.06
10/22/2010 3:00	17629	1_60	2010	295	300	0.7963868	62.29521	33.7304	-0.019	0.496	-0.016	0.346	7.593	7.906	0.3125317	0	94.2	45.73
10/22/2010 4:00	17630	1_60	2010	295	400	1.370188	161.4052	10.96391	-0.014	0.311	0.099	0.638	7.489	7.883	0.3937811	0	94.3	45.56
10/22/2010 5:00	17631	1_60	2010	295	500	1.916841	106.3968	11.1072	1.627	5.753	2.282	6.208	7.809	7.829	0.02080062	0	94.7	46.15
10/22/2010 6:00	17632	1_60	2010	295	600	2.96977	133.8997	23.74616	6.547	19.48	12.9	19.9	7.855	8.05	0.1907472	0.01	91.8	46.16
10/22/2010 7:00	17633	1_60	2010	295	700	1.278144	114.6609	51.13756	1.384	13.19	2.166	10.84	8.11	8.31	0.197473	0.01	89	46.81
10/22/2010 8:00	17634	1_60	2010	295	800	1.989336	104.3307	20.83239	1.696	6.494	1.777	6.339	7.984	8.09	0.1106812	0.02	91.9	46.46
10/22/2010 9:00	17635	1_60	2010	295	900	2.46106	101.9896	10.48832	2.725	8.78	2.468	7.204	8.8	8.89	0.09137092	0	87	47.99
10/22/2010 10:00	17636	1_60	2010	295	1000	1.160929	114.0005	52.76249	1.451	21.43	2.01	18.22	9.32	9.23	-0.08285876	0	83.7	49
10/22/2010 11:00	17637	1_60	2010	295	1100	0.9327174	133.2499	68.79257	2.961	11.61	2.665	9.19	9.84	9.75	-0.09371728	0	80.6	50.08
10/22/2010 12:00	17638	1_60	2010	295	1200	1.756893	174.349	43.17142	1.444	27.24	7.915	28.31	10.62	10.31	-0.3027363	0	76.66	51.41
10/22/2010 13:00	17639	1_60	2010	295	1300	1.772256	169.5737	36.08552	2.331	25.29	10.26	27.51	10.93	10.77	-0.1559313	0	72.78	51.81
10/22/2010 14:00	17640	1_60	2010	295	1400	3.661359	202.2276	28.22107	4.209	35.76	23.05	37.77	12.3	11.78	-0.5265554	0	65.71	54.23
10/22/2010 15:00	17641	1_60	2010	295	1500	2.752595	277.8044	39.48893	1.3	16.67	1.583	17.79	9.86	9.77	-0.08533661	0.06	84.9	49.95
10/22/2010 16:00	17642	1_60	2010	295	1600	1.727566	107.2896	37.00165	-0.799	17.63	1.518	17.16	9.93	9.85	-0.07795535	0	83.7	50.17
10/22/2010 17:00	17643	1_60	2010	295	1700	3.265843	250.9712	22.90292	-0.35	24.11	8.1	24.49	9.81	10.07	0.2582334	0	80	49.89
10/22/2010 18:00	17644	1_60	2010	295	1800	1.998703	245.042	28.11094	-1.33	21.9	3.518	21.03	9.43	9.67	0.2426011	0.01	79.99	49.12
10/22/2010 19:00	17645	1_60	2010	295	1900	1.514094	289.7013	31.06928	-0.599	13.26	-1.493	12.12	9.03	9.29	0.255655	0.01	78.9	48.43
10/22/2010 20:00	17646	1_60	2010	295	2000	2.858115	226.7225	15.00385	0.61	16.08	11.5	18.07	8.5	8.83	0.3309321	0	83.4	47.43
10/22/2010 21:00	17647	1_60	2010	295	2100	1.139141	103.3561	28.32629	1.449	11.34	0.709	11.12	8.38	8.53	0.1532541	0	86.3	47.28
10/22/2010 22:00	17648	1_60	2010	295	2200	1.487724	298.7378	33.25141	0.942	9.97	2.4	10.8	8.52	8.78	0.2620466	0.01	85.8	47.45
10/22/2010 23:00	17649	1_60	2010	295	2300	1.305339	294.524	32.429	2.212	12.53	2.796	11.9	8.02	8.25	0.2264026	0.02	87.5	46.58
10/23/2010 0:00	17650	1_60	2010	296	0	0.8787087	74.84212	43.24403	-0.011	0.55	-0.021	0.461	7.919	8.12	0.2031496	0	89.9	46.44
10/23/2010 1:00	17651	1_60	2010	296	100	0.7374451	26.80612	54.76642	-0.011	0.62	-0.006	1.467	7.905	8.15	0.2442834	0.01	90.9	46.33
10/23/2010 2:00	17652	1_60	2010	296	200	0.8825159	322.028	57.7475	0.045	1.037	-0.008	0.819	7.817	8.06	0.2445058	0.03	91.5	46.15
10/23/2010 3:00	17653	1_60	2010	296	300	1.352522	343.0417	45.95763	0.024	1.314	-0.207	1.844	7.576	7.695	0.1188926	0.02	93.7	45.81
10/23/2010 4:00	17654	1_60	2010	296	400	0.9418728	161.0775	38.69267	-0.07	1.245	0.018	0.93	7.294	7.67	0.3758031	0	94.1	45.27
10/23/2010 5:00	17655	1_60	2010	296	500	0.8811446	96.45979	44.74651	-0.005	0.319	0.014	0.377	7.206	7.493	0.2872474	0	93.9	45.13
10/23/2010 6:00	17656	1_60	2010	296	600	1.091043	292.1505	37.10757	0.032	0.866	0.027	0.882	6.931	7.003	0.07184197	0	95.6	44.7
10/23/2010 7:00	17657	1_60	2010	296	700	1.441902	132.9622	18.96482	0.064	0.645	0.65	1.85	6.732	6.902	0.1699372	0	96.4	44.3
10/23/2010 8:00	17658	1_60	2010	296	800	1.385807	177.5214	48.14845	0.025	2.257	0.3	2.482	7.299	7.293	-0.00605358	0	96.7	45.13
10/23/2010 9:00	17659	1_60	2010	296	900	0.8468447	149.5696	31.75868	0.378	2.962	0.246	1.436	8.37	8.2	-0.1693711	0	94	47.09
10/23/2010 10:00	17660	1_60	2010	296	1000	0.8184854	0.23175	43.50093	1.205	14.58	-0.366	11.32	9.56	9.27	-0.293138	0	85.3	50.54
10/23/2010 11:00	17661	1_60	2010	296	1100	0.7716974	353.8257	44.13832	4.904	15.34	3.465	12.34	10.39	10.08	-0.3118882	0	79.44	52.02
10/23/2010 12:00	17662	1_60	2010	296	1200	1.138484	85.3131	33.71362	1.128	23.48	-0.499	20.12	11.43	11.05	-0.387694	0	72.94	53.51
10/23/2010 13:00	17663	1_60	2010	296	1300	3.103846	20.41593	37.24961	6.047	23.56	-1.224	25.65	11.09	11.05	-0.03549568	0.2	74.95	52.46
10/23/2010 14:00	17664	1_60	2010	296	1400	1.910578	115.6503	43.96271	2.89	13.33	5.492	14.89	8.33	8.53	0.1998133	0.12	82.2	47.24
10/23/2010 15:00	17665	1_60	2010	296	1500	4.38097	102.7662	9.566714	11.9	22.54	12.85	23.68	11.54	11.09	-0.4519908	0	76.43	53.02
10/23/2010 16:00	17666	1_60	2010	296	1600	3.641308	116.5916	19.45757	10.28	26.1	14.41	27.07	12.46	12.37	-0.09305806	0	67.2	54.63
10/23/2010 17:00	17667	1_60	2010	296	1700	3.234668	108.9193	16.85746	7.864	22.23	10.64	23.12	11.3	11.42	0.1196562	0	69.41	52.53
10/23/2010 18:00	17668	1_60	2010	296	1800	1.782637	175.5261	35.86304	1.841	17.64	6.76	21.4	10.89	11.28	0.3967817	0	68.37	51.8
10/23/2010 19:00	17669	1_60	2010	296	1900	3.738951	212.3285	34.72408	0.052	30.81	15.71	34.51	9.32	9.6	0.2801405	0.01	79.55	48.97
10/23/2010 20:00	17670	1_60	2010	296	2000	1.135358	82.65002	54.11595	0.303	6.218	-0.383	6.97	9.48	9.78	0.2946031	0	80.6	49.2
10/23/2010 21:00	17671	1_60	2010	296	2100	3.828559	299.8888	22.9865	4.458	22.27	9.01	27.29	7.853	8.14	0.2847259	0.1	86.3	46.25
10/23/2010 22:00	17672	1_60	2010	296	2200	2.614256	185.3188	22.81818	0.629	4.365	4.077	8.66	6.698	7.473	0.7742221	0	90	44.38
10/23/2010 23:00	17673	1_60	2010	296	2300	2.532258	124.9011	23.02085	3.107	9.77	8.38	11.87	6.337	6.721	0.384341	0	92.2	43.57
10/24/2010 0:00	17674	1_60	2010	297	0	2.202557	141.3884	24.98746	3.404	12.68	7.521	14.13	7.074	7.383	0.3087419	0	91.2	44.85
10/24/2010 1:00	17675	1_60	2010	297	100	1.534824	109.9171	20.3567	1.548	6.512	2.159	6.459	7.356	7.67	0.3145799	0.01	90.7	45.42
10/24/2010 2:00	17676	1_60	2010	297	200	2.460264	138.2227	12.67954	3.827	11.16	8.69	12.64	7.238	7.607	0.3690572	0	89.8	45.22
10/24/2010 3:00	17677	1_60	2010	297	300	1.94267	297.2589	20.1227	0.095	4.308	-0.253	3.943	6.095	6.34	0.2451362	0	93.9	43.36
10/24/2010 4:00	17678	1_60	2010	297	400	0.7715505	212.9528	36.05087	0	0.077	0.002	0.083	5.78	6.147	0.3670586	0	95.9	42.5
10/24/2010 5:00	17679	1_60	2010	297	500	1.203081	121.4133	23.64367	0.023	1.307	0.035	0.416	5.458	5.942	0.4843754	0	95.7	42.07
10/24/2010 6:00	17680	1_60	2010	297	600	1.285783	131.9869	20.65829	-0.011	1.003	0.019	0.804	5.417	5.789	0.3718335	0	95.9	41.89
10/24/2010 7:00	17681	1_60	2010	297	700	1.061003	215.7652	28.28248	0.059	0.668	0.004	0.178	5.255	6.139	0.8843287	0	95.2	41.56
10/24/2010 8:00	17682	1_60	2010	297	800	1.213518	108.1534	21.05869	0.105	2.146	0.278	2.339	6.248	6.257	0.009571396	0	93.1	43.91
10/24/2010 9:00	17683	1_60	2010	297	900	0.6513195	309.2316	50.50366	1.191	11.45	0.537	8.74	8.7	8.41	-0.2944879	0	84.9	49.71
10/24/2010 10:00	17684	1_60	2010	297	1000	0.7633924	282.0483	42.1302	4.458	18.24	5.525	16.7	10.63	10.26	-0.3682098	0	76.35	53.07
10/24/2010 11:00	17685	1_60	2010	297	1100	2.092026	310.3034	33.19114	3.012	20.55	-0.081	20	11.74	11.33	-0.4077379	0	72.85	53.94
10/24/2010 12:00	17686	1_60	2010	297	1200	3.66758	219.9923	24.17041	4.095	31.27	23.93	32.87	13.37	12.68	-0.6865898	0	59.53	56.51
10/24/2010 13:00	17687	1_60	2010	297	1300	4.172704	210.534	24.53479	5.398	41.12	29.21	43.49	14.88	13.95	-0.9387456	0	53.56	59.11
10/24/2010 14:00	17688	1_60	2010	297	1400	6.367751	220.2574	11.94213	0.592	38.65	36.71	40.14	14.54	13.87	-0.6714786	0	54.43	58.3
10/24/2010 15:00	17689	1_60	2010	297	1500	6.102138	206.2004	12.45706	1.498	35.27	40.07	36.97	13.97	13.72	-0.2492638	0	55.89	57.23
10/24/2010 16:00	17690	1_60	2010	297	1600	6.741282	190.5325	13.43051	3.536	41.97	50.35	44.76	14.07	13.82	-0.2418183	0	55.57	57.31
10/24/2010 17:00	17691	1_60	2010	297	1700	6.402774	184.6361	15.71362	2.536	44.86	47.11	48.68	13.54	13.5	-0.03792699	0	56.38	56.45
10/24/2010 18:00	17692	1_60	2010	297	1800	7.272534	195.7594	13.35504	3.686	43.07	53.39	46.66	12.82	13.03	0.2106289	0	57.64	55.21
10/24/2010 19:00	17693	1_60	2010	297	1900	5.208788	192.0068	16.331	1.803	36.91	34.99	40.75	12.98	13.23	0.253762	0	55.76	55.48
10/24/2010 20:00	17694	1_60	2010	297	2000	3.761284	192.4632	26.62684	-0.207	44.16	21.4	47.15	13.14	13.38	0.2343595	0	55.23	55.79
10/24/2010 21:00	17695	1_60	2010	297	2100	2.579729	168.9204	38.90623	0.988	40.48	13.22	42.32	13.3	13.51	0.2109722	0	55.13	56.02
10/24/2010 22:00	17696	1_60	2010	297	2200	4.098435	192.2532	30.70005	4.739	44.35	29.61	47.48	13.48	13.71	0.2248711	0	55.03	56.4
10/24/2010 23:00	17697	1_60	2010	297	2300	2.925731	161.2199	57.75671	5.729	41.44	16.22	45.01	13.32	13.62	0.2971662	0	55.79	56.12

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/22/2010 0:00	17626	1_60	2010	295	0	24.52	0.071	4.85	1.98	198.6	2300	13.37
10/22/2010 1:00	17627	1_60	2010	295	100	24.52	0.074	4.849	1.502	146.7	30	13.37
10/22/2010 2:00	17628	1_60	2010	295	200	24.52	0.065	4.849	1.98	109.4	155	13.37
10/22/2010 3:00	17629	1_60	2010	295	300	24.5	0.065	4.849	1.399	106.2	200	13.36
10/22/2010 4:00	17630	1_60	2010	295	400	24.5	0.068	4.849	2.048	190.9	322	13.37
10/22/2010 5:00	17631	1_60	2010	295	500	24.49	0.074	4.849	3.823	125.3	459	13.36
10/22/2010 6:00	17632	1_60	2010	295	600	24.5	0.083	4.85	7.066	119.9	524	13.36
10/22/2010 7:00	17633	1_60	2010	295	700	24.49	0.957 AQ		3.55	91.4	652	13.36
10/22/2010 8:00	17634	1_60	2010	295	800	24.5	28.13 AQ		4.13	117.1	723	13.32
10/22/2010 9:00	17635	1_60	2010	295	900	24.5	60.74	4.872	3.823	88.1	819	13.35
10/22/2010 10:00	17636	1_60	2010	295	1000	24.49	101.3	4.872	3.072	117.2	911	13.33
10/22/2010 11:00	17637	1_60	2010	295	1100	24.5	83.1	4.872	2.253	250.6	1025	13.31
10/22/2010 12:00	17638	1_60	2010	295	1200	24.48	240.4 AQ		6.417	255.6	1133	13.29
10/22/2010 13:00	17639	1_60	2010	295	1300	24.45	97.6	4.879	5.632	175.4	1209	13.27
10/22/2010 14:00	17640	1_60	2010	295	1400	24.44	390.7 AQ		9.32	222.2	1332	13.26
10/22/2010 15:00	17641	1_60	2010	295	1500	24.44	66.28 AQ		8.09	297.5	1408	13.25
10/22/2010 16:00	17642	1_60	2010	295	1600	24.44	120.4 AQ		7.236	244.3	1559	13.28
10/22/2010 17:00	17643	1_60	2010	295	1700	24.44	30.29	4.925	6.758	245	1641	13.26
10/22/2010 18:00	17644	1_60	2010	295	1800	24.45	1.114 AQ		5.7	265.4	1706	13.31
10/22/2010 19:00	17645	1_60	2010	295	1900	24.47	0.084 AQ		3.755	287.7	1832	13.32
10/22/2010 20:00	17646	1_60	2010	295	2000	24.47	0.076 AQ		6.246	235.4	1929	13.34
10/22/2010 21:00	17647	1_60	2010	295	2100	24.47	0.085	4.934	2.697	128.6	2026	13.34
10/22/2010 22:00	17648	1_60	2010	295	2200	24.49	0.09 AQ		4.71	270.5	2150	13.34
10/22/2010 23:00	17649	1_60	2010	295	2300	24.48	0.096 AQ		4.164	254.7	2209	13.35
10/23/2010 0:00	17650	1_60	2010	296	0	24.49	0.088	4.962	2.185	85.7	2310	13.36
10/23/2010 1:00	17651	1_60	2010	296	100	24.49	0.086 AQ		1.98	40.58	46	13.35
10/23/2010 2:00	17652	1_60	2010	296	200	24.5	0.084 AQ		1.843	326.6	149	13.35
10/23/2010 3:00	17653	1_60	2010	296	300	24.49	0.093 AQ		2.697	353.1	209	13.36
10/23/2010 4:00	17654	1_60	2010	296	400	24.49	0.092	5.003	1.911	190	347	13.37
10/23/2010 5:00	17655	1_60	2010	296	500	24.51	0.07	5.003	1.57	54.04	432	13.37
10/23/2010 6:00	17656	1_60	2010	296	600	24.53	0.078 AQ		2.458	289.6	517	13.37
10/23/2010 7:00	17657	1_60	2010	296	700	24.53	5.57 AQ		2.662	162.8	617	13.38
10/23/2010 8:00	17658	1_60	2010	296	800	24.55	41.52	5.023	2.389	200.2	717	13.38
10/23/2010 9:00	17659	1_60	2010	296	900	24.56	114.8	5.023	1.775	109	856	13.36
10/23/2010 10:00	17660	1_60	2010	296	1000	24.57	292.4 AQ		2.219	100.4	901	13.32
10/23/2010 11:00	17661	1_60	2010	296	1100	24.57	287.9	5.027	2.423	62.17	1054	13.28
10/23/2010 12:00	17662	1_60	2010	296	1200	24.55	342.9	5.027	2.97	82.7	1140	13.25
10/23/2010 13:00	17663	1_60	2010	296	1300	24.55	101.4 AQ		10.14	263.6	1259	13.23
10/23/2010 14:00	17664	1_60	2010	296	1400	24.53	204.9 AQ		10.07	265.7	1300	13.29
10/23/2010 15:00	17665	1_60	2010	296	1500	24.52	483.3	5.324	6.929	95.8	1444	13.28
10/23/2010 16:00	17666	1_60	2010	296	1600	24.53	170.4	5.324	7.168	85.1	1554	13.25
10/23/2010 17:00	17667	1_60	2010	296	1700	24.53	47.06	5.323	6.793	104.5	1654	13.25
10/23/2010 18:00	17668	1_60	2010	296	1800	24.55	2.819	5.322	7.168	133.9	1707	13.28
10/23/2010 19:00	17669	1_60	2010	296	1900	24.57	0.053 AQ		9.05	217	1830	13.3
10/23/2010 20:00	17670	1_60	2010	296	2000	24.6	0.071	5.331	4.54	281.6	1959	13.32
10/23/2010 21:00	17671	1_60	2010	296	2100	24.6	0.073 AQ		12.6	283.1	2004	13.33
10/23/2010 22:00	17672	1_60	2010	296	2200	24.61	0.069	5.414	4.437	324.5	2106	13.36
10/23/2010 23:00	17673	1_60	2010	296	2300	24.61	0.059	5.414	4.915	137.5	2246	13.39
10/24/2010 0:00	17674	1_60	2010	297	0	24.63	0.04	5.414	4.949	143.8	2323	13.4
10/24/2010 1:00	17675	1_60	2010	297	100	24.62	0.061 AQ		4.062	113.7	42	13.38
10/24/2010 2:00	17676	1_60	2010	297	200	24.61	0.067 AQ		4.983	142	129	13.38
10/24/2010 3:00	17677	1_60	2010	297	300	24.61	0.066	5.42	4.062	305.7	225	13.39
10/24/2010 4:00	17678	1_60	2010	297	400	24.61	0.052	5.42	1.502	166.8	323	13.4
10/24/2010 5:00	17679	1_60	2010	297	500	24.61	0.042	5.42	2.833	107	441	13.42
10/24/2010 6:00	17680	1_60	2010	297	600	24.61	0.037	5.42	2.321	97	507	13.42
10/24/2010 7:00	17681	1_60	2010	297	700	24.62	4.846	5.42	3.823	85.6	658	13.43
10/24/2010 8:00	17682	1_60	2010	297	800	24.64	114.3	5.42	3.413	92.5	700	13.43
10/24/2010 9:00	17683	1_60	2010	297	900	24.63	318.2	5.42	1.638	319.6	835	13.37
10/24/2010 10:00	17684	1_60	2010	297	1000	24.61	395.3	5.42	2.253	327.2	914	13.29
10/24/2010 11:00	17685	1_60	2010	297	1100	24.6	334.7	5.42	4.915	311.7	1022	13.24
10/24/2010 12:00	17686	1_60	2010	297	1200	24.59	510.7	5.42	7.1	221.7	1108	13.22
10/24/2010 13:00	17687	1_60	2010	297	1300	24.55	639.3	5.419	9.35	227.8	1259	13.18
10/24/2010 14:00	17688	1_60	2010	297	1400	24.53	415.7	5.419	10.44	223.5	1319	13.15
10/24/2010 15:00	17689	1_60	2010	297	1500	24.51	180.3	5.419	11.03	169.3	1458	13.17
10/24/2010 16:00	17690	1_60	2010	297	1600	24.51	208.7	5.418	12.15	172.6	1537	13.19
10/24/2010 17:00	17691	1_60	2010	297	1700	24.5	83.3	5.418	13.48	156.7	1650	13.2
10/24/2010 18:00	17692	1_60	2010	297	1800	24.49	5.761	5.416	14.44	179.7	1729	13.22
10/24/2010 19:00	17693	1_60	2010	297	1900	24.48	0.059	5.411	10.34	180.3	1808	13.24
10/24/2010 20:00	17694	1_60	2010	297	2000	24.46	0.057	5.407	11.81	174.9	1920	13.25
10/24/2010 21:00	17695	1_60	2010	297	2100	24.42	0.062	5.404	9.25	156.5	2017	13.25
10/24/2010 22:00	17696	1_60	2010	297	2200	24.39	0.063	5.402	10.72	171.7	2129	13.25
10/24/2010 23:00	17697	1_60	2010	297	2300	24.36	0.061	5.399	17.58	159.6	2257	13.25

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/25/2010 0:00	17698	1_60	2010	298	0	4.165592	195.9471	52.4775	8.2	56.26	32.67	63.34	13.45	13.66	0.2087125	0	56.93	56.36
10/25/2010 1:00	17699	1_60	2010	298	100	7.699804	195.7832	23.28568	7.841	66.45	58.57	74.35	13.01	13.29	0.2776181	0	61.22	55.68
10/25/2010 2:00	17700	1_60	2010	298	200	9.375574	199.2184	19.05491	6.353	73.99	69.64	82.8	12.57	12.82	0.2454212	0	63.71	54.89
10/25/2010 3:00	17701	1_60	2010	298	300	11.63388	203.4298	14.2747	5.924	74.7	86.3	80.7	12.51	12.67	0.1561867	0	63.96	54.68
10/25/2010 4:00	17702	1_60	2010	298	400	13.79011	202.1438	12.54408	1.219	84.4	99.6	90.1	12.13	12.29	0.1676309	0	65.33	54.02
10/25/2010 5:00	17703	1_60	2010	298	500	14.96372	208.6725	11.04896	8.31	81.3	114	85.6	11.74	11.96	0.2238414	0	66.9	53.43
10/25/2010 6:00	17704	1_60	2010	298	600	13.86724	212.3247	9.610455	7.609	76.57	103.2	76.91	11.6	11.82	0.2244457	0	66.2	53.16
10/25/2010 7:00	17705	1_60	2010	298	700	12.07018	211.6305	12.11102	5.92	72.13	86.8	76.71	11.4	11.63	0.2363535	0.01	66.35	52.81
10/25/2010 8:00	17706	1_60	2010	298	800	8.056902	248.8917	16.24267	1.258	53.26	29.01	62.11	9.66	9.94	0.2803123	0.09	77.01	49.78
10/25/2010 9:00	17707	1_60	2010	298	900	4.093544	313.4344	13.31119	5.796	20.72	-2.355	22.35	6.947	7.068	0.1216972	0.09	87	44.58
10/25/2010 10:00	17708	1_60	2010	298	1000	4.859165	247.6353	9.496638	3.308	25.58	22.8	28.53	6.271	6.553	0.2820025	0	84	43.54
10/25/2010 11:00	17709	1_60	2010	298	1100	6.482468	289.6624	22.009	4.846	34.44	6.858	41.2	6.881	7.061	0.1796243	0	68.46	44.67
10/25/2010 12:00	17710	1_60	2010	298	1200	5.155308	353.3197	18.25549	12.42	37.53	-11.39	41.2	6.211	5.816	-0.3946121	0	71.3	43.52
10/25/2010 13:00	17711	1_60	2010	298	1300	6.189345	310.5166	23.66895	7.407	42.57	-3.599	50.43	8.74	8.05	-0.6936799	0	46.17	48.03
10/25/2010 14:00	17712	1_60	2010	298	1400	9.687178	295.3835	12.62397	8.06	49.8	7.403	55.85	8.62	8.08	-0.5391372	0	34.4	47.45
10/25/2010 15:00	17713	1_60	2010	298	1500	9.302734	289.8127	12.22093	7.123	45.26	14.01	53.7	9.03	8.4	-0.6285269	0	32.42	48.2
10/25/2010 16:00	17714	1_60	2010	298	1600	8.369817	293.0588	10.21452	7.781	42.21	11.81	48.6	8.88	8.39	-0.4872635	0	31.5	48.04
10/25/2010 17:00	17715	1_60	2010	298	1700	7.162834	294.7961	8.212195	4.708	35.21	4.536	39.08	7.793	7.651	-0.1419562	0	32.09	46.25
10/25/2010 18:00	17716	1_60	2010	298	1800	4.358624	301.4808	6.584554	3.015	15.81	3.399	16.49	4.796	5.479	0.6828849	0	47.08	41.02
10/25/2010 19:00	17717	1_60	2010	298	1900	4.005588	289.9141	6.219132	0.983	4.568	1.342	4.615	3.069	4.838	1.768875	0	56.71	37.92
10/25/2010 20:00	17718	1_60	2010	298	2000	5.067763	259.4003	5.276406	2.127	13.05	18.31	14.67	3.532	4.671	1.138962	0	51.24	38.57
10/25/2010 21:00	17719	1_60	2010	298	2100	2.846309	290.0463	27.23203	2.565	15.07	5.615	14.39	3.271	4.147	0.8750886	0	49.75	38.31
10/25/2010 22:00	17720	1_60	2010	298	2200	1.917581	115.8791	45.21542	2.48	13.98	2.183	15.35	1.442	2.887	1.445519	0	60.37	35.07
10/25/2010 23:00	17721	1_60	2010	298	2300	1.439314	141.3605	45.18353	-1.87	13.95	-2.519	16.8	1.397	3.447	2.050627	0	60.52	35.02
10/26/2010 0:00	17722	1_60	2010	299	0	2.804216	153.0247	38.31441	2.27	10.5	5.943	13.01	0.13	1.825	1.694562	0	69.3	32.7
10/26/2010 1:00	17723	1_60	2010	299	100	3.043227	109.5738	12.05032	3.321	13.63	6.204	15.91	-0.215	0.371	0.5857964	0	74.86	32.02
10/26/2010 2:00	17724	1_60	2010	299	200	2.437087	97.79473	13.37265	1.816	8.31	1.766	8.5	-0.98	0.214	1.19437	0	77.58	30.56
10/26/2010 3:00	17725	1_60	2010	299	300	1.258205	73.03941	37.43072	0.23	3.524	0.037	3.495	-0.635	0.687	1.322354	0	74.99	30.88
10/26/2010 4:00	17726	1_60	2010	299	400	2.265536	153.1987	50.71608	1.109	7.061	3.692	10.76	-1.627	-0.224	1.40219	0	77.95	29.69
10/26/2010 5:00	17727	1_60	2010	299	500	0.9256048	171.1889	33.0617	-0.113	1.201	-0.039	0.78	-2.969	-1.611	1.357689	0	86.5	27.09
10/26/2010 6:00	17728	1_60	2010	299	600	1.041941	115.8201	43.27699	0.168	2.75	0.23	3.009	-3.292	-1.685	1.607721	0	87.8	26.46
10/26/2010 7:00	17729	1_60	2010	299	700	1.860176	127.8829	31.71472	0.223	2.761	-0.108	2.412	-3.794	-2.705	1.089802	0	89.7	25.54
10/26/2010 8:00	17730	1_60	2010	299	800	1.11621	116.1231	26.38109	0.373	3.973	-0.051	3.729	-2.303	-2.046	0.2568573	0	86	28.84
10/26/2010 9:00	17731	1_60	2010	299	900	1.09306	99.46036	27.10716	0.697	19.01	0.094	17.59	2.454	2.059	-0.3950765	0	57.88	38.37
10/26/2010 10:00	17732	1_60	2010	299	1000	1.677763	336.7695	41.51156	3.761	22.35	2.456	21.56	4.691	4.149	-0.5419141	0	47.72	42.34
10/26/2010 11:00	17733	1_60	2010	299	1100	2.374365	342.8225	43.73108	1.737	32.63	-1.928	32.36	6.321	5.723	-0.5979795	0	39.96	44.45
10/26/2010 12:00	17734	1_60	2010	299	1200	1.578009	336.4974	35.93573	4.624	21.25	0.538	21.63	6.215	5.935	-0.2802404	0	37.64	44.1
10/26/2010 13:00	17735	1_60	2010	299	1300	2.141459	345.5695	16.12752	2.603	16.26	-3.721	16.35	6.965	6.566	-0.39961	0	35.72	45.2
10/26/2010 14:00	17736	1_60	2010	299	1400	4.330306	300.5254	22.44026	4.409	39.54	8.12	44.9	8.88	7.996	-0.8816099	0	30.87	48.44
10/26/2010 15:00	17737	1_60	2010	299	1500	7.804553	261.7247	14.81483	2.772	45.76	26.65	51.69	9.13	8.3	-0.8264387	0	28.27	48.43
10/26/2010 16:00	17738	1_60	2010	299	1600	6.15408	281.7653	14.78772	4.355	34.34	10.37	37.97	8.91	8.21	-0.6977476	0	26.39	48.2
10/26/2010 17:00	17739	1_60	2010	299	1700	6.127873	276.2691	10.85606	2.368	30.72	12.85	34.59	7.67	7.56	-0.1103741	0	25.66	46.1
10/26/2010 18:00	17740	1_60	2010	299	1800	5.616078	258.3459	7.040409	2.435	22.34	20.95	25.69	5.725	6.289	0.5635536	0	28.85	42.66
10/26/2010 19:00	17741	1_60	2010	299	1900	3.267761	249.2334	16.12709	1.285	6.548	12.24	10.43	4.163	5.154	0.9902316	0	39.19	39.73
10/26/2010 20:00	17742	1_60	2010	299	2000	1.393519	264.5746	44.30431	0.362	6.898	0.654	7.056	4.214	5.427	1.212703	0	38.27	39.75
10/26/2010 21:00	17743	1_60	2010	299	2100	1.906053	257.6124	18.58327	-1.7	9.12	0.677	9.56	3.393	4.776	1.383301	0	41.3	38.46
10/26/2010 22:00	17744	1_60	2010	299	2200	1.60656	214.3316	48.66249	-0.244	4.672	2.495	7.717	1.164	3.167	2.003292	0	52.88	34.84
10/26/2010 23:00	17745	1_60	2010	299	2300	1.943862	139.3665	10.69197	-0.065	1.231	0.253	1.425	-1.399	2.03	3.429378	0	68.89	30.17
10/27/2010 0:00	17746	1_60	2010	300	0	0.9324327	122.0494	31.14832	-0.074	1.141	-0.057	1.315	-2.057	0.446	2.502599	0	74.16	28.63
10/27/2010 1:00	17747	1_60	2010	300	100	0.9175271	119.0822	56.54725	-0.19	6.472	0.069	5.516	-2.895	0.105	3.000469	0	76.76	27.42
10/27/2010 2:00	17748	1_60	2010	300	200	1.484053	100.0454	44.09869	0.06	2.988	0.469	4.379	-3.597	-1.471	2.12605	0	82.1	25.94
10/27/2010 3:00	17749	1_60	2010	300	300	1.598482	128.3347	13.55473	-0.025	0.752	0.043	0.445	-3.784	-1.528	2.256231	0	83.5	25.49
10/27/2010 4:00	17750	1_60	2010	300	400	1.622011	146.0551	36.10287	-0.061	1.917	0.301	1.901	-2.772	-1.034	1.738726	0	78.44	27.3
10/27/2010 5:00	17751	1_60	2010	300	500	2.574133	106.5227	21.48062	1.244	6.826	1.509	7.977	-3.023	-2.084	0.9387315	0	82.5	26.93
10/27/2010 6:00	17752	1_60	2010	300	600	1.580853	320.5532	47.37136	-0.212	3.038	-0.325	3.198	-3.485	-2.207	1.277357	0	85.8	25.95
10/27/2010 7:00	17753	1_60	2010	300	700	2.426897	109.1178	19.55863	0.519	3.319	0.597	3.496	-3.719	-2.588	1.131649	0	86.6	25.7
10/27/2010 8:00	17754	1_60	2010	300	800	2.163708	134.1332	26.33576	1.437	7.926	4.933	9.88	-0.394	-0.298	0.09594677	0	72.94	32.03
10/27/2010 9:00	17755	1_60	2010	300	900	1.281474	29.74022	59.47509	1.328	21.78	-0.618	20.36	2.893	2.525	-0.3673192	0	50.37	39.25
10/27/2010 10:00	17756	1_60	2010	300	1000	3.398164	324.3652	21.98978	6.318	28.43	-0.493	30.18	4.296	3.654	-0.6422754	0	40.34	40.68
10/27/2010 11:00	17757	1_60	2010	300	1100	2.188451	339.0854	33.98015	-1.366	30.23	-7.879	30.13	4.877	4.241	-0.6358489	0	34.94	42.41
10/27/2010 12:00	17758	1_60	2010	300	1200	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 13:00	17759	1_60	2010	300	1300	3.515409	300.6798	22.20157	2.651	33.1	0.228	36.24	7.554	6.591	-0.9628942	0	22.85	46.25
10/27/2010 14:00	17760	1_60	2010	300	1400	2.938474	277.6173	28.97921	-0.614	33.49	3.571	36.78	8.32	7.447	-0.870952	0	20.47	47.52
10/27/2010 15:00	17761	1_60	2010	300	1500	1.978333	232.0867	39.68549	3.994	31.4	12.95	32.76	8.93	8.15	-0.7752305	0	19.78	49.33
10/27/2010 16:00	17762	1_60	2010	300	1600	2.692404	247.2662	32.78159	6.37	25.72	14.28	26.86	9.33	8.57	-0.7628708	0	20.85	49.59
10/27/2010 17:00	17763	1_60	2010	300	1700	2.290481	233.3529	13.76188	2.302	14.37	7.533	15.22	8.16	8.03	-0.1330655	0	26.1	47.5
10/27/2010 18:00	17764	1_60	2010	300	1800	1.003739	176.8745	15.50245	-0.002	0.048	0.003	0.035	2.641	6.135	3.493997	0	50.24	37.36
10/27/2010 19:00	17765	1_60	2010	300	1900	2.069499	140.7162	9.852035	-0.184	2.29	0.975	3.467	1.108	3.589	2.481241	0	55.28	34.58
10/27/2010 20:00	17766	1_60	2010	300	2000	2.187257	141.0193	22.14136	0.68	7.671	8.05	12.34	3.074	5	1.926541	0	35.39	37.94
10/27/2010 21:00	17767	1_60	2010	300	2100	2.232313	123.3571	12.02354	0.075	1.101	0.319	1.736	-0.596	2.019	2.615475	0	54.1	31.79
10/27/2010 22:00	17768	1_60	2010	300	2200	1.615785	139.7976	23.45048	-0.008	1.708	1.069	3.658	-1.827	1.16	2.9872	0	62.24	29.26
10/27/2010 23:00	17769	1_60	2010	300	2300	2.113382	136.0054	10.74489	0.008	0.612	1.609	5.134	-3.007	0.637	3.644287	0	69.48	27.2

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/25/2010 0:00	17698	1_60	2010	298	0	24.32	0.048	5.395	13.35	180.4	2352	13.25
10/25/2010 1:00	17699	1_60	2010	298	100	24.31	0.007	AQ	20.21	231.2	31	13.26
10/25/2010 2:00	17700	1_60	2010	298	200	24.26	0.006	AQ	20.82	199.9	154	13.27
10/25/2010 3:00	17701	1_60	2010	298	300	24.23	0.036	AQ	21.3	221.5	250	13.27
10/25/2010 4:00	17702	1_60	2010	298	400	24.18	0.023	AQ	23.93	208.8	328	13.27
10/25/2010 5:00	17703	1_60	2010	298	500	24.19	0.011	5.396	25.63	202.7	433	13.28
10/25/2010 6:00	17704	1_60	2010	298	600	24.18	0.031	AQ	20.86	204.7	507	13.29
10/25/2010 7:00	17705	1_60	2010	298	700	24.17	2.663	AQ	19.93	206.9	643	13.29
10/25/2010 8:00	17706	1_60	2010	298	800	24.24	18.97	AQ	17.58	302.1	745	13.31
10/25/2010 9:00	17707	1_60	2010	298	900	24.28	22.77	AQ	8.84	310.4	806	13.34
10/25/2010 10:00	17708	1_60	2010	298	1000	24.3	56.19	AQ	9.73	244.4	956	13.38
10/25/2010 11:00	17709	1_60	2010	298	1100	24.32	174.1	AQ	12.49	308.1	1039	13.38
10/25/2010 12:00	17710	1_60	2010	298	1200	24.34	425.5	5.485	12.29	19.38	1104	13.38
10/25/2010 13:00	17711	1_60	2010	298	1300	24.33	607.3	5.485	16.42	323.5	1250	13.34
10/25/2010 14:00	17712	1_60	2010	298	1400	24.32	484.3	5.481	17.34	314.8	1303	13.32
10/25/2010 15:00	17713	1_60	2010	298	1500	24.35	463.4	5.472	16.08	288.8	1420	13.3
10/25/2010 16:00	17714	1_60	2010	298	1600	24.36	320.2	5.462	13.48	301.6	1510	13.3
10/25/2010 17:00	17715	1_60	2010	298	1700	24.38	140.5	5.459	11.61	286.5	1606	13.27
10/25/2010 18:00	17716	1_60	2010	298	1800	24.4	4.542	5.456	7.885	296.7	1700	13.37
10/25/2010 19:00	17717	1_60	2010	298	1900	24.43	0.006	5.454	5.12	300.5	1825	13.44
10/25/2010 20:00	17718	1_60	2010	298	2000	24.44	0.032	5.451	7.236	269.3	1953	13.49
10/25/2010 21:00	17719	1_60	2010	298	2100	24.45	0.049	5.448	6.929	282.2	2009	13.51
10/25/2010 22:00	17720	1_60	2010	298	2200	24.46	0.047	5.447	5.837	98.6	2124	13.53
10/25/2010 23:00	17721	1_60	2010	298	2300	24.46	0.025	5.446	3.106	324.7	2219	13.56
10/26/2010 0:00	17722	1_60	2010	299	0	24.45	0.051	5.446	5.564	110.1	2341	13.58
10/26/2010 1:00	17723	1_60	2010	299	100	24.46	0.057	5.446	5.393	100.9	17	13.6
10/26/2010 2:00	17724	1_60	2010	299	200	24.45	0.049	5.447	3.516	83.7	129	13.61
10/26/2010 3:00	17725	1_60	2010	299	300	24.44	0.026	5.448	2.765	82.4	240	13.63
10/26/2010 4:00	17726	1_60	2010	299	400	24.45	0.029	5.448	3.891	92.7	350	13.64
10/26/2010 5:00	17727	1_60	2010	299	500	24.45	0.033	5.448	2.287	214.6	400	13.66
10/26/2010 6:00	17728	1_60	2010	299	600	24.46	0.062	5.448	2.628	105.3	559	13.68
10/26/2010 7:00	17729	1_60	2010	299	700	24.47	5.392	5.448	3.038	96.8	605	13.69
10/26/2010 8:00	17730	1_60	2010	299	800	24.47	115	5.448	2.867	62.62	752	13.68
10/26/2010 9:00	17731	1_60	2010	299	900	24.48	325.4	5.448	2.389	86.9	835	13.6
10/26/2010 10:00	17732	1_60	2010	299	1000	24.47	512.6	5.448	5.7	276.4	1000	13.48
10/26/2010 11:00	17733	1_60	2010	299	1100	24.46	479.5	5.448	7.885	262.4	1000	13.38
10/26/2010 12:00	17734	1_60	2010	299	1200	24.44	234.1	5.443	4.983	327.1	1112	13.36
10/26/2010 13:00	17735	1_60	2010	299	1300	24.42	327.6	5.437	4.233	348.1	1201	13.35
10/26/2010 14:00	17736	1_60	2010	299	1400	24.41	650.4	5.426	12.22	271.4	1353	13.31
10/26/2010 15:00	17737	1_60	2010	299	1500	24.43	496.4	5.414	13.28	263	1440	13.28
10/26/2010 16:00	17738	1_60	2010	299	1600	24.43	354.2	5.409	12.08	290.2	1551	13.28
10/26/2010 17:00	17739	1_60	2010	299	1700	24.43	129	5.4	11.64	272	1613	13.3
10/26/2010 18:00	17740	1_60	2010	299	1800	24.45	4.447	5.397	9.63	251	1725	13.35
10/26/2010 19:00	17741	1_60	2010	299	1900	24.48	0.018	5.393	4.506	237.8	1822	13.41
10/26/2010 20:00	17742	1_60	2010	299	2000	24.49	0.005	5.392	3.823	253.9	1918	13.45
10/26/2010 21:00	17743	1_60	2010	299	2100	24.5	0.028	5.389	3.618	243.5	2032	13.49
10/26/2010 22:00	17744	1_60	2010	299	2200	24.51	0.039	5.388	3.584	203.6	2139	13.53
10/26/2010 23:00	17745	1_60	2010	299	2300	24.53	0.037	5.387	2.867	139.9	2217	13.57
10/27/2010 0:00	17746	1_60	2010	300	0	24.54	0.029	5.388	1.843	91.3	2313	13.62
10/27/2010 1:00	17747	1_60	2010	300	100	24.56	0.017	5.389	2.526	101.3	15	13.65
10/27/2010 2:00	17748	1_60	2010	300	200	24.58	0.046	5.39	3.072	25.76	126	13.67
10/27/2010 3:00	17749	1_60	2010	300	300	24.59	0.061	5.39	2.389	100.5	233	13.69
10/27/2010 4:00	17750	1_60	2010	300	400	24.62	0.045	5.39	3.209	117.4	325	13.69
10/27/2010 5:00	17751	1_60	2010	300	500	24.65	0.06	5.39	4.642	107.3	438	13.68
10/27/2010 6:00	17752	1_60	2010	300	600	24.7	0.062	5.39	3.686	292.5	504	13.69
10/27/2010 7:00	17753	1_60	2010	300	700	24.72	4.919	5.39	4.369	77.27	654	13.69
10/27/2010 8:00	17754	1_60	2010	300	800	24.77	132.7	5.391	4.642	125.2	704	13.67
10/27/2010 9:00	17755	1_60	2010	300	900	24.8	325.4	5.39	3.618	333.2	856	13.56
10/27/2010 10:00	17756	1_60	2010	300	1000	24.82	493.2	5.383	7.236	344.1	947	13.46
10/27/2010 11:00	17757	1_60	2010	300	1100	24.84	612.8	5.379	6.281	312.6	1043	13.39
10/27/2010 12:00	17758	1_60	2010	300	1200	AZ	AZ	AZ	AZ	AZ	AZ	13.25
10/27/2010 13:00	17759	1_60	2010	300	1300	24.84	685.4	5.361	8.98	283.6	1209	13.22
10/27/2010 14:00	17760	1_60	2010	300	1400	24.84	618.8	5.36	6.861	293.6	1309	13.25
10/27/2010 15:00	17761	1_60	2010	300	1500	24.85	495.9	5.357	5.939	302	1400	13.24
10/27/2010 16:00	17762	1_60	2010	300	1600	24.86	326.5	5.351	4.813	207.2	1503	13.21
10/27/2010 17:00	17763	1_60	2010	300	1700	24.87	129.3	5.347	4.028	267.7	1600	13.25
10/27/2010 18:00	17764	1_60	2010	300	1800	24.89	3.518	5.342	1.604	210.4	1700	13.34
10/27/2010 19:00	17765	1_60	2010	300	1900	24.91	0.016	5.339	3.106	145.4	1853	13.45
10/27/2010 20:00	17766	1_60	2010	300	2000	24.92	0.055	5.336	4.301	169	1916	13.51
10/27/2010 21:00	17767	1_60	2010	300	2100	24.94	0.042	5.333	3.891	105.9	2051	13.55
10/27/2010 22:00	17768	1_60	2010	300	2200	24.97	0.056	5.334	3.686	133.3	2104	13.6
10/27/2010 23:00	17769	1_60	2010	300	2300	24.99	0.036	5.334	3.618	154.2	2221	13.64

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/28/2010 0:00	17770	1_60	2010	301	0	4.259003	128.0183	6.45641	5.424	12.76	15.69	15.83	-1.293	0.568	1.861054	0	61.16	29.92
10/28/2010 1:00	17771	1_60	2010	301	100	3.875088	120.2451	8.237363	7.171	14.8	15.47	16.5	-1.052	-0.304	0.7476716	0	59.54	30.5
10/28/2010 2:00	17772	1_60	2010	301	200	1.481639	83.5046	29.26203	-0.034	10.44	-0.107	10.94	-1.621	-0.75	0.8708079	0	60.45	29.57
10/28/2010 3:00	17773	1_60	2010	301	300	1.909557	51.02158	14.09713	-0.133	1.985	-0.251	1.775	-3.604	-2.413	1.191749	0	71.55	26.09
10/28/2010 4:00	17774	1_60	2010	301	400	2.368653	124.5845	8.182812	0.273	2.479	0.814	2.528	-4.783	-2.886	1.896361	0	77.71	23.83
10/28/2010 5:00	17775	1_60	2010	301	500	1.409671	126.4646	24.41792	0.069	1.438	0.347	1.553	-4.896	-2.653	2.242323	0	76.31	23.94
10/28/2010 6:00	17776	1_60	2010	301	600	1.362995	114.1121	10.84514	0	0.032	-0.001	0.02	-5.151	-2.741	2.409687	0	78.81	23.2
10/28/2010 7:00	17777	1_60	2010	301	700	1.180549	311.042	43.082	-0.002	0.195	-0.022	0.456	-4.874	-3.475	1.399353	0	78.09	23.68
10/28/2010 8:00	17778	1_60	2010	301	800	0.6146023	218.0759	36.39814	1.821	7.93	0.952	5.542	-3.422	-3.255	0.1675106	0	70.3	28.31
10/28/2010 9:00	17779	1_60	2010	301	900	1.200951	315.5839	16.77325	0.423	16.01	-0.952	13.95	-0.082	-0.465	-0.3835285	0	56.69	33.72
10/28/2010 10:00	17780	1_60	2010	301	1000	1.197707	311.9967	36.25995	1.412	24.71	1.716	22.14	2.049	1.557	-0.4924422	0	43.18	37.75
10/28/2010 11:00	17781	1_60	2010	301	1100	1.12665	324.0941	53.1051	-2.58	28.4	-3.715	25.71	4.256	3.724	-0.5319422	0	35.74	41.98
10/28/2010 12:00	17782	1_60	2010	301	1200	1.248992	300.6827	45.67903	2.668	28.22	2.633	27.4	7.163	6.533	-0.6292615	0	29.13	46.93
10/28/2010 13:00	17783	1_60	2010	301	1300	1.014183	288.6829	54.32345	-3.085	30.13	-0.739	26.33	9.69	9.01	-0.6765748	0	23.7	51.86
10/28/2010 14:00	17784	1_60	2010	301	1400	1.257354	315.4951	51.64536	5.528	32.72	4.126	30.5	11.84	11.25	-0.5899401	0	21.14	54.96
10/28/2010 15:00	17785	1_60	2010	301	1500	1.032729	166.1744	58.99625	4.954	25.98	5.77	22.86	13.39	12.7	-0.6887225	0	19.33	57.7
10/28/2010 16:00	17786	1_60	2010	301	1600	1.374712	163.7547	28.24139	4.954	19.15	9.8	19.85	14.21	13.58	-0.6330178	0	19.77	58.48
10/28/2010 17:00	17787	1_60	2010	301	1700	2.949556	159.0785	11.80588	3.019	9.55	16.21	11.91	12.36	12.4	0.04601961	0	25.91	54.53
10/28/2010 18:00	17788	1_60	2010	301	1800	3.367594	146.2306	16.67435	0.224	5.039	16.25	13.97	7.137	10.1	2.960307	0	39.09	45.41
10/28/2010 19:00	17789	1_60	2010	301	1900	2.300181	105.6856	5.159341	0.215	1.822	0.269	1.794	5.739	9.12	3.381491	0	43.58	42.55
10/28/2010 20:00	17790	1_60	2010	301	2000	0.9233709	172.3176	29.50683	-0.001	0.042	0.002	0.06	5.303	8.3	3.001535	0	43.25	42.31
10/28/2010 21:00	17791	1_60	2010	301	2100	1.255816	122.5696	28.40963	-0.004	2.117	0.06	1.19	2.335	5.192	2.85659	0	58.91	36.84
10/28/2010 22:00	17792	1_60	2010	301	2200	2.086988	116.1755	16.38538	-0.066	9.34	0.398	8.94	3.034	5.179	2.145254	0	56.74	37.7
10/28/2010 23:00	17793	1_60	2010	301	2300	2.057446	93.49229	10.56215	0.374	2.994	0.146	2.953	1.047	2.932	1.884953	0	65.75	34.59
10/29/2010 0:00	17794	1_60	2010	302	0	1.524394	155.1818	30.19221	0.027	0.573	0.006	0.287	0.526	2.387	1.860363	0	67.87	33.51
10/29/2010 1:00	17795	1_60	2010	302	100	1.765962	91.37641	20.72211	-0.047	2.149	-0.116	1.163	0.836	2.367	1.530692	0	67.21	33.89
10/29/2010 2:00	17796	1_60	2010	302	200	1.953364	102.6345	21.60719	0.014	0.639	0.108	1.004	-0.264	1.951	2.215313	0	73.46	31.88
10/29/2010 3:00	17797	1_60	2010	302	300	0.5773069	337.0055	42.87508	0.002	3.552	-0.067	3.258	-0.224	2.202	2.426314	0	72.31	32.17
10/29/2010 4:00	17798	1_60	2010	302	400	1.389023	100.5257	26.68258	-0.001	0.064	0.006	0.121	-1.762	-0.353	1.408865	0	83.7	29.22
10/29/2010 5:00	17799	1_60	2010	302	500	0.8799526	170.1247	33.05947	0	0.024	0.002	0.055	-0.952	0.324	1.276835	0	78.54	30.62
10/29/2010 6:00	17800	1_60	2010	302	600	0.6820685	156.6234	37.10801	0	0.014	0	0.025	-0.784	1.117	1.900904	0	75.86	31.02
10/29/2010 7:00	17801	1_60	2010	302	700	0.5875452	122.897	29.12414	0	0.125	-0.003	0.198	-1.328	1.046	2.374302	0	79.66	29.89
10/29/2010 8:00	17802	1_60	2010	302	800	0.9446651	138.4469	48.40299	0.353	3.65	0.615	3.882	0.241	0.553	0.312771	0	74.79	33.66
10/29/2010 9:00	17803	1_60	2010	302	900	1.320414	310.9207	18.33901	1.417	12.07	0.705	11.19	4.502	4.09	-0.4125417	0	53.84	41.64
10/29/2010 10:00	17804	1_60	2010	302	1000	1.29325	296.3366	26.35789	2.694	23.76	2.171	23.47	6.701	6.133	-0.5677931	0	45.02	45.9
10/29/2010 11:00	17805	1_60	2010	302	1100	1.559206	307.5671	29.50569	3.795	28.06	1.752	27.76	8.94	8.34	-0.6067449	0	39.59	49.74
10/29/2010 12:00	17806	1_60	2010	302	1200	1.427766	295.6171	22.16258	1.629	20.56	1.443	19.32	10.88	10.35	-0.5319493	0	34.54	52.71
10/29/2010 13:00	17807	1_60	2010	302	1300	1.053325	270.9565	38.55452	3.086	26.56	5.006	24.87	13.12	12.52	-0.5996485	0	28.65	57.23
10/29/2010 14:00	17808	1_60	2010	302	1400	1.323287	296.3938	35.51272	2.305	26.23	3.049	25.71	15.73	15.08	-0.6493129	0	25.92	61.81
10/29/2010 15:00	17809	1_60	2010	302	1500	1.868904	271.7094	32.59393	2.943	23.43	6.587	26.83	18.34	17.84	-0.501853	0	24.31	65.89
10/29/2010 16:00	17810	1_60	2010	302	1600	3.411787	180.7471	24.44754	3.086	29.08	21.99	31.35	20.18	19.64	-0.5377666	0	22.83	68.47
10/29/2010 17:00	17811	1_60	2010	302	1700	2.707543	214.7733	29.88354	-1.795	26.1	10.04	29.52	18.95	19.09	0.1424352	0	24.32	66.48
10/29/2010 18:00	17812	1_60	2010	302	1800	1.486841	234.7039	36.57855	0.09	3.283	0.215	4.571	14.49	16.74	2.258054	0	34.21	58.99
10/29/2010 19:00	17813	1_60	2010	302	1900	1.710331	126.2924	22.10954	-0.045	3.757	0.322	3.179	11.68	13.72	2.046723	0	44.17	53.3
10/29/2010 20:00	17814	1_60	2010	302	2000	1.069798	166.5887	32.18184	-0.001	0.048	0.002	0.047	9.86	13.01	3.146595	0	50.05	50.39
10/29/2010 21:00	17815	1_60	2010	302	2100	1.434623	123.9244	26.99332	0.154	1.998	0.189	2.122	8.36	11.59	3.230245	0	55.95	47.66
10/29/2010 22:00	17816	1_60	2010	302	2200	1.52954	124.8959	23.43211	-0.129	2.037	0.313	2.948	7.531	10.22	2.694049	0	60.41	45.92
10/29/2010 23:00	17817	1_60	2010	302	2300	1.370453	121.7914	15.86398	0	0.054	0.002	0.101	6.519	9.17	2.653176	0	64.27	44.15
10/30/2010 0:00	17818	1_60	2010	303	0	1.162466	334.9509	44.46609	0.155	3.165	0.04	2.213	5.931	9.26	3.329064	0	63.71	43.3
10/30/2010 1:00	17819	1_60	2010	303	100	1.07185	230.7829	40.38438	-0.034	0.538	0.032	0.422	4.356	5.981	1.624839	0	72.54	40.05
10/30/2010 2:00	17820	1_60	2010	303	200	1.516995	127.087	21.12194	0.003	0.204	0.008	0.144	4.23	6.625	2.394969	0	71.81	40.08
10/30/2010 3:00	17821	1_60	2010	303	300	0.8003672	145.8653	44.14347	-0.103	3.893	-0.08	3.289	4.172	6.674	2.502202	0	72.62	39.76
10/30/2010 4:00	17822	1_60	2010	303	400	1.457318	123.2442	31.76833	-0.05	2.239	0.006	0.894	2.896	5.498	2.601908	0	76.2	37.67
10/30/2010 5:00	17823	1_60	2010	303	500	1.260828	291.2452	36.16709	0.171	2.348	-0.113	1.995	1.781	4.373	2.591382	0	80.4	35.64
10/30/2010 6:00	17824	1_60	2010	303	600	2.30678	106.8492	12.66433	0.013	1.419	0.093	1.376	1.196	3.432	2.235563	0	83.7	34.48
10/30/2010 7:00	17825	1_60	2010	303	700	1.422305	108.5804	36.5462	0.138	1.439	-0.006	0.167	1.17	3.514	2.344311	0	80.8	34.87
10/30/2010 8:00	17826	1_60	2010	303	800	1.933219	106.4067	17.29272	0.695	4.841	1.311	5.849	3.962	4.368	0.4060605	0	75.19	39.79
10/30/2010 9:00	17827	1_60	2010	303	900	2.198154	306.5004	34.19984	4.028	15.29	4.147	17.2	6.307	5.895	-0.4115509	0	66.85	44.43
10/30/2010 10:00	17828	1_60	2010	303	1000	0.9909723	314.8777	31.04888	2.447	20.31	1.543	19.05	8.77	8.31	-0.4586502	0	53.69	49.98
10/30/2010 11:00	17829	1_60	2010	303	1100	1.57539	296.8219	37.0389	1.496	25.63	0.689	24.46	12.29	11.61	-0.680455	0	40.71	55.58
10/30/2010 12:00	17830	1_60	2010	303	1200	2.611654	46.40243	40.37658	4.602	38.71	10.44	44.3	17.44	16.77	-0.674673	0	29	64.69
10/30/2010 13:00	17831	1_60	2010	303	1300	6.794513	198.2818	23.3544	1.653	57.11	43.34	61.82	21.7	20.82	-0.8776742	0	14.19	71.11
10/30/2010 14:00	17832	1_60	2010	303	1400	9.127062	219.0932	16.95985	3.887	64.29	58.55	69.66	21.84	21.03	-0.8052415	0	11.07	71.17
10/30/2010 15:00	17833	1_60	2010	303	1500	8.1206	213.2768	18.11154	1.056	56.57	50.22	59.8	21.67	20.96	-0.7117493	0	12.81	71
10/30/2010 16:00	17834	1_60	2010	303	1600	9.92543	215.7533	18.85553	6.367	65.63	67.35	70.68	20.76	20.55	-0.2078059	0	13.61	69.47
10/30/2010 17:00	17835	1_60	2010	303	1700	8.506248	206.8009	20.39993	1.029	57.49	56.15	63.31	19.49	19.66	0.1711924	0	14.58	67.24
10/30/2010 18:00	17836	1_60	2010	303	1800	5.157356	222.859	31.52678	1.306	46.85	26.63	52.78	18.63	18.96	0.3263792	0	17.08	65.74
10/30/2010 19:00	17837	1_60	2010	303	1900	11.21482	233.8716	19.02551	7.522	73.48	65.12	82.5	16.8	16.95	0.1431189	0	23.85	62.44
10/30/2010 20:00	17838	1_60	2010	303	2000	8.402977	278.373	14.36094	7.136	43.97	24.76	50.64	12.51	12.63	0.1232572	0	47.27	54.76
10/30/2010 21:00	17839	1_60	2010	303	2100	4.277862	279.1317	12.68305	3.981	21.23	9.52	22.88	10.52	11.24	0.7187309	0	52.95	51.25
10/30/2010 22:00	17840	1_60	2010	303	2200	3.480053	251.322	28.04011	2.755	15.34	12.27	17.53	9.81	10.72	0.9097843	0	54.41	50.1
10/30/2010 23:00	17841	1_60	2010	303	2300	1.871037	173.3895	30.71156	0.077	10.28	4.679	11.2	7.226	8.77	1.539478	0	60.76	45.59

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/28/2010 0:00	17770	1_60	2010	301	0	24.99	0.042	5.334	7.27	120.7	2337	13.66
10/28/2010 1:00	17771	1_60	2010	301	100	24.99	0.053	5.334	6.554	115.1	28	13.65
10/28/2010 2:00	17772	1_60	2010	301	200	24.99	0.048	5.334	3.959	107.3	104	13.65
10/28/2010 3:00	17773	1_60	2010	301	300	24.99	0.041	5.334	2.697	94.5	244	13.67
10/28/2010 4:00	17774	1_60	2010	301	400	24.99	0.062	5.334	3.686	113.5	352	13.7
10/28/2010 5:00	17775	1_60	2010	301	500	25.01	0.059	5.334	3.311	129.4	411	13.72
10/28/2010 6:00	17776	1_60	2010	301	600	25.02	0.049	5.334	2.185	132.1	555	13.74
10/28/2010 7:00	17777	1_60	2010	301	700	25.03	6.727	5.334	2.15	274.4	609	13.75
10/28/2010 8:00	17778	1_60	2010	301	800	25.06	136.7	5.334	1.638	91.6	700	13.72
10/28/2010 9:00	17779	1_60	2010	301	900	25.05	322.7	5.334	2.355	324.3	821	13.61
10/28/2010 10:00	17780	1_60	2010	301	1000	25.04	487.8	5.332	2.697	301.2	908	13.5
10/28/2010 11:00	17781	1_60	2010	301	1100	25.02	590.7	5.328	2.765	333.8	1049	13.42
10/28/2010 12:00	17782	1_60	2010	301	1200	24.99	635.8	5.324	3.004	336.2	1103	13.33
10/28/2010 13:00	17783	1_60	2010	301	1300	24.96	654.9	5.319	2.833	250.7	1205	13.26
10/28/2010 14:00	17784	1_60	2010	301	1400	24.94	585.7	5.31	3.209	315.9	1328	13.2
10/28/2010 15:00	17785	1_60	2010	301	1500	24.92	467	5.305	2.423	174.2	1449	13.17
10/28/2010 16:00	17786	1_60	2010	301	1600	24.91	288	5.302	3.004	155.1	1547	13.15
10/28/2010 17:00	17787	1_60	2010	301	1700	24.9	106.7	5.3	4.096	166.5	1650	13.17
10/28/2010 18:00	17788	1_60	2010	301	1800	24.91	5.168	5.296	4.335	172.3	1725	13.25
10/28/2010 19:00	17789	1_60	2010	301	1900	24.91	0.043	5.292	3.516	110.4	1837	13.34
10/28/2010 20:00	17790	1_60	2010	301	2000	24.92	0.057	5.289	2.116	126.1	1906	13.4
10/28/2010 21:00	17791	1_60	2010	301	2100	24.92	0.019	5.285	3.174	122.6	2049	13.46
10/28/2010 22:00	17792	1_60	2010	301	2200	24.92	0.052	5.283	4.574	85.2	2104	13.49
10/28/2010 23:00	17793	1_60	2010	301	2300	24.92	0.061	5.281	3.038	85.2	2224	13.52
10/29/2010 0:00	17794	1_60	2010	302	0	24.91	0.051	5.28	2.697	105	2338	13.55
10/29/2010 1:00	17795	1_60	2010	302	100	24.9	0.059	5.28	3.14	98.9	56	13.57
10/29/2010 2:00	17796	1_60	2010	302	200	24.9	0.058	5.279	3.209	98.4	126	13.58
10/29/2010 3:00	17797	1_60	2010	302	300	24.89	0.063	5.279	1.741	75.11	230	13.58
10/29/2010 4:00	17798	1_60	2010	302	400	24.89	0.065 AQ		2.185	133.3	342	13.59
10/29/2010 5:00	17799	1_60	2010	302	500	24.89	0.065	5.283	2.014	223.9	415	13.61
10/29/2010 6:00	17800	1_60	2010	302	600	24.88	0.066	5.283	1.877	144	547	13.61
10/29/2010 7:00	17801	1_60	2010	302	700	24.89	5.36	5.283	1.707	63.65	628	13.62
10/29/2010 8:00	17802	1_60	2010	302	800	24.9	131.4	5.283	2.253	76.22	715	13.61
10/29/2010 9:00	17803	1_60	2010	302	900	24.89	304.5	5.283	2.765	314.6	845	13.51
10/29/2010 10:00	17804	1_60	2010	302	1000	24.88	474.3	5.282	3.277	299.7	956	13.4
10/29/2010 11:00	17805	1_60	2010	302	1100	24.85	576	5.275	3.482	287.6	1006	13.31
10/29/2010 12:00	17806	1_60	2010	302	1200	24.83	424	5.271	2.833	283.3	1102	13.25
10/29/2010 13:00	17807	1_60	2010	302	1300	24.79	488.6	5.269	3.004	263.1	1210	13.21
10/29/2010 14:00	17808	1_60	2010	302	1400	24.76	576	5.266	3.072	242.7	1336	13.15
10/29/2010 15:00	17809	1_60	2010	302	1500	24.74	365.2	5.261	6.178	171.5	1456	13.11
10/29/2010 16:00	17810	1_60	2010	302	1600	24.73	274.8	5.256	7.305	167.2	1515	13.09
10/29/2010 17:00	17811	1_60	2010	302	1700	24.72	85.6	5.249	9.08	227.9	1610	13.09
10/29/2010 18:00	17812	1_60	2010	302	1800	24.72	4.692	5.243	2.526	219.2	1753	13.13
10/29/2010 19:00	17813	1_60	2010	302	1900	24.72	0.045	5.236	3.243	104.5	1808	13.21
10/29/2010 20:00	17814	1_60	2010	302	2000	24.72	0.035	5.231	1.809	117.3	1918	13.26
10/29/2010 21:00	17815	1_60	2010	302	2100	24.71	0.051	5.228	4.096	101	2038	13.31
10/29/2010 22:00	17816	1_60	2010	302	2200	24.72	0.071	5.225	2.355	98.1	2126	13.35
10/29/2010 23:00	17817	1_60	2010	302	2300	24.7	0.078	5.223	2.253	119.1	2258	13.38
10/30/2010 0:00	17818	1_60	2010	303	0	24.69	0.065	5.221	2.389	14.56	2339	13.41
10/30/2010 1:00	17819	1_60	2010	303	100	24.69	0.042	5.219	2.253	246	3	13.44
10/30/2010 2:00	17820	1_60	2010	303	200	24.69	0.028	5.218	2.628	119.4	137	13.46
10/30/2010 3:00	17821	1_60	2010	303	300	24.68	0.049	5.216	2.662	79.07	230	13.48
10/30/2010 4:00	17822	1_60	2010	303	400	24.67	0.057	5.216	3.482	96.9	326	13.49
10/30/2010 5:00	17823	1_60	2010	303	500	24.68	0.063	5.215	3.447	325.9	431	13.51
10/30/2010 6:00	17824	1_60	2010	303	600	24.67	0.061	5.215	3.959	116.6	527	13.54
10/30/2010 7:00	17825	1_60	2010	303	700	24.69	8.61	5.215	2.355	67.09	602	13.56
10/30/2010 8:00	17826	1_60	2010	303	800	24.67	125.8	5.214	3.106	138.1	736	13.53
10/30/2010 9:00	17827	1_60	2010	303	900	24.66	267.5	5.213	5.086	310.8	834	13.45
10/30/2010 10:00	17828	1_60	2010	303	1000	24.63	472.3	5.212	2.799	315.5	922	13.36
10/30/2010 11:00	17829	1_60	2010	303	1100	24.61	588.5	5.209	3.447	282.2	1027	13.26
10/30/2010 12:00	17830	1_60	2010	303	1200	24.54	658.8	5.206	14.17	160.9	1149	13.17
10/30/2010 13:00	17831	1_60	2010	303	1300	24.51	658.8	5.196	15.09	195.7	1219	13.1
10/30/2010 14:00	17832	1_60	2010	303	1400	24.48	595.3	5.181	21.3	247.1	1333	13.06
10/30/2010 15:00	17833	1_60	2010	303	1500	24.46	465.9	5.164	15.84	180.6	1455	13.05
10/30/2010 16:00	17834	1_60	2010	303	1600	24.45	223.4	5.139	17.54	234.6	1518	13.05
10/30/2010 17:00	17835	1_60	2010	303	1700	24.44	34.09	5.117	18.57	175.7	1602	13.08
10/30/2010 18:00	17836	1_60	2010	303	1800	24.45	1.425	5.103	18.71	247.5	1744	13.11
10/30/2010 19:00	17837	1_60	2010	303	1900	24.52	0.024	5.087	21.74	252.2	1832	13.13
10/30/2010 20:00	17838	1_60	2010	303	2000	24.57	0.038	5.071	16.83	236	1903	13.17
10/30/2010 21:00	17839	1_60	2010	303	2100	24.6	0.043	5.063	8.67	244.9	2005	13.24
10/30/2010 22:00	17840	1_60	2010	303	2200	24.62	0.028	5.059	6.212	242.3	2124	13.29
10/30/2010 23:00	17841	1_60	2010	303	2300	24.63	0.069	5.056	4.676	230.8	2253	13.34

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
10/31/2010 0:00	17842	1_60	2010	304	0	2.369668	216.4887	38.69685	1.185	9.33	8.99	12.27	6.548	8.06	1.512639	0	61.45	44.08
10/31/2010 1:00	17843	1_60	2010	304	100	1.408821	6.697235	46.96423	0.515	7.474	-0.569	7.363	6.377	7.768	1.39113	0	60.43	43.82
10/31/2010 2:00	17844	1_60	2010	304	200	2.193397	146.1281	39.84125	1.143	5.841	2.604	7.047	3.861	6.644	2.783653	0	68.08	39.82
10/31/2010 3:00	17845	1_60	2010	304	300	1.312056	171.5261	33.44477	-0.093	1.412	0.467	2.77	3.037	5.98	2.943489	0	70.72	38.09
10/31/2010 4:00	17846	1_60	2010	304	400	1.424722	119.531	45.22951	0.302	5.282	0.253	5.158	1.719	4.515	2.796238	0	76.92	35.51
10/31/2010 5:00	17847	1_60	2010	304	500	1.731724	340.6024	53.17371	0.069	1.668	-0.047	2.084	0.04	1.858	1.818295	0	83.6	32.56
10/31/2010 6:00	17848	1_60	2010	304	600	2.740325	116.799	13.16447	0.57	3.373	1.515	4.522	-0.291	1.916	2.206821	0	85.1	31.83
10/31/2010 7:00	17849	1_60	2010	304	700	2.152383	105.9755	41.58978	0.174	1.631	-0.013	1.093	-0.333	1.106	1.438559	0	84	31.98
10/31/2010 8:00	17850	1_60	2010	304	800	2.25848	124.4862	15.71909	1.425	8.59	2.483	8.99	1.666	2.275	0.6088711	0	78.47	35.6
10/31/2010 9:00	17851	1_60	2010	304	900	3.118289	122.664	12.75461	7.037	19.96	11.93	21.16	7.313	6.725	-0.5871919	0	50.64	45.78
10/31/2010 10:00	17852	1_60	2010	304	1000	1.896952	301.8816	50.63737	8.17	23.98	8.23	24.11	8.42	7.821	-0.6029255	0	47.57	48.74
10/31/2010 11:00	17853	1_60	2010	304	1100	2.028337	307.1146	27.00375	2.249	27.87	0.14	27.65	10.09	9.36	-0.7270024	0	42.69	51.54
10/31/2010 12:00	17854	1_60	2010	304	1200	2.354937	317.8643	29.40906	7.877	27.93	3.48	27.51	12.54	11.71	-0.8337564	0	36.88	55.79
10/31/2010 13:00	17855	1_60	2010	304	1300	2.159325	308.3153	59.87467	4.694	36.65	3.161	36.15	14.07	13.26	-0.8107404	0	30.69	58.64
10/31/2010 14:00	17856	1_60	2010	304	1400	2.309052	299.7994	38.44926	0.155	33.23	1.602	34.46	14.83	14.04	-0.7981653	0	24.7	59.59
10/31/2010 15:00	17857	1_60	2010	304	1500	1.838613	46.46609	30.34307	2.183	32.19	-3.191	30.63	15.18	14.61	-0.573081	0	23.93	60.63
10/31/2010 16:00	17858	1_60	2010	304	1600	1.443209	22.98177	38.87773	3.578	24.03	-1.346	21.52	15.24	14.81	-0.4288199	0	23.91	60.89
10/31/2010 17:00	17859	1_60	2010	304	1700	1.813211	280.9919	14.61768	2.292	11.48	2.672	11.12	13.85	14.13	0.2868044	0	26.16	58.1
10/31/2010 18:00	17860	1_60	2010	304	1800	2.714329	275.4964	19.47639	0.795	6.414	1.136	6.717	9.67	11.68	2.01005	0	37.33	49.82
10/31/2010 19:00	17861	1_60	2010	304	1900	2.427618	271.281	24.06176	0.132	8.82	0.506	7.61	9.04	10.99	1.953206	0	42.73	48.91
10/31/2010 20:00	17862	1_60	2010	304	2000	1.399234	223.9915	36.73655	-0.066	9.57	1.916	9.22	8.26	9.96	1.7023	0	47.65	47.38
10/31/2010 21:00	17863	1_60	2010	304	2100	1.444022	157.2162	22.82944	0.083	1.446	0.26	2.189	4.719	7.724	3.005559	0	62.61	41.29
10/31/2010 22:00	17864	1_60	2010	304	2200	1.200892	150.3031	25.02809	-0.549	3.884	-0.189	2.027	4.156	7.163	3.006949	0	67.24	40.17
10/31/2010 23:00	17865	1_60	2010	304	2300	0.9177843	169.938	26.18191	-0.017	1.119	0.002	0.066	4.189	7.628	3.438364	0	67.91	40.4
11/1/2010 0:00	17866	1_60	2010	305	0	1.721698	108.7439	22.23499	-0.043	1.702	0.007	0.371	2.218	5.299	3.080739	0	74.62	36.95
11/1/2010 1:00	17867	1_60	2010	305	100	2.652408	111.7214	6.077506	-0.023	2.512	0.076	1.675	1.821	3.142	1.321578	0	78.12	35.59
11/1/2010 2:00	17868	1_60	2010	305	200	1.298764	137.5032	19.1153	-0.018	0.371	-0.009	0.22	1.779	3.484	1.705573	0	77.85	35.59
11/1/2010 3:00	17869	1_60	2010	305	300	0.5852978	133.1207	45.11343	-0.001	0.064	0.007	0.206	1.48	3.226	1.74522	0	79.15	35.07
11/1/2010 4:00	17870	1_60	2010	305	400	1.095653	129.6786	43.31995	-0.014	0.378	-0.014	0.213	-0.033	1.545	1.577991	0	82.2	32.63
11/1/2010 5:00	17871	1_60	2010	305	500	0.4669418	161.1826	31.21856	0.142	1.677	0.066	0.853	1.072	2.527	1.45566	0	81.4	34.03
11/1/2010 6:00	17872	1_60	2010	305	600	1.155442	148.2941	30.91712	0.115	2.526	0.225	2.264	-0.715	1.249	1.964035	0	83.4	31.48
11/1/2010 7:00	17873	1_60	2010	305	700	1.655404	120.4603	29.37267	0.197	2.835	0.08	2.273	-1.367	0.13	1.496831	0	85.3	30
11/1/2010 8:00	17874	1_60	2010	305	800	1.372948	93.57523	37.7002	0.453	4.686	0.432	3.982	-0.413	-0.176	0.2374274	0	81.9	32.4
11/1/2010 9:00	17875	1_60	2010	305	900	0.6654003	111.6929	27.94431	5.431	17.37	5.204	14.53	4.148	3.839	-0.3090619	0	61.9	41.91
11/1/2010 10:00	17876	1_60	2010	305	1000	1.223787	299.342	34.45073	0.363	22.41	-0.166	18.46	7.817	7.307	-0.5095835	0	48.41	48.29
11/1/2010 11:00	17877	1_60	2010	305	1100	3.504567	297.7376	14.65835	0.953	28.45	0.428	29.6	11.36	10.52	-0.8404688	0	37.83	53.05
11/1/2010 12:00	17878	1_60	2010	305	1200	3.733887	304.2267	25.72861	3.358	33.46	-0.24	36.88	13.29	12.45	-0.8473756	0	29.28	56.54
11/1/2010 13:00	17879	1_60	2010	305	1300	3.76276	331.8702	37.75244	5.023	36.52	-3.825	37.46	14.28	13.41	-0.8719811	0	26.1	58.41
11/1/2010 14:00	17880	1_60	2010	305	1400	4.375234	320.3416	23.22775	5.75	36.94	-1.614	39.77	14.97	14.11	-0.860473	0	24.49	59.27
11/1/2010 15:00	17881	1_60	2010	305	1500	3.727888	325.3851	31.84636	3.397	35.95	-5.24	40.27	15.26	14.61	-0.6440756	0	22.54	60.01
11/1/2010 16:00	17882	1_60	2010	305	1600	4.487981	319.1746	17.35667	8.46	29.07	-0.484	31.6	15.42	14.9	-0.5194066	0	21.84	60.2
11/1/2010 17:00	17883	1_60	2010	305	1700	4.715046	343.2905	22.49064	11.43	27.57	-3.821	30.16	14.29	14.3	0.003804682	0	23.58	58.14
11/1/2010 18:00	17884	1_60	2010	305	1800	4.03829	347.0954	13.64421	8.64	18.28	-4.552	18.9	12.18	12.94	0.755528	0	27.3	54.27
11/1/2010 19:00	17885	1_60	2010	305	1900	3.653793	338.5767	16.10476	6.896	24.94	-3.835	25.98	11.3	11.99	0.6945202	0	30.61	52.62
11/1/2010 20:00	17886	1_60	2010	305	2000	2.119734	263.6511	30.87679	4.476	20.01	6.385	21.61	9.51	10.69	1.183797	0	35.67	49.54
11/1/2010 21:00	17887	1_60	2010	305	2100	2.036557	132.3744	21.01564	0.54	8.19	1.432	8.81	6.713	9.13	2.418594	0	43.73	44.88
11/1/2010 22:00	17888	1_60	2010	305	2200	2.383975	137.0751	10.22312	-0.179	2.912	0.56	3.182	2.893	6.041	3.148034	0	60.09	37.78
11/1/2010 23:00	17889	1_60	2010	305	2300	2.218968	132.3125	7.74784	0.19	2.343	1.038	3.887	1.983	5.921	3.937737	0	64.63	35.95
11/2/2010 0:00	17890	1_60	2010	306	0	2.34735	125.919	12.72507	0.169	1.618	0.677	2.5	1.766	4.717	2.951044	0	65.05	35.68
11/2/2010 1:00	17891	1_60	2010	306	100	0.7520961	168.9651	46.81163	-0.009	0.257	0	0.094	0.526	2.539	2.012659	0	70.12	33.48
11/2/2010 2:00	17892	1_60	2010	306	200	1.260973	150.4162	24.2828	-0.004	0.207	0.015	0.229	0.199	1.728	1.529176	0	72.63	32.82
11/2/2010 3:00	17893	1_60	2010	306	300	2.838526	88.33609	11.54782	3.417	8.47	1.525	8.29	0.493	1.942	1.448672	0	73.15	33.25
11/2/2010 4:00	17894	1_60	2010	306	400	1.582705	155.554	25.29138	0.195	2.039	0.175	1.635	-0.576	1.121	1.696921	0	76.76	31.56
11/2/2010 5:00	17895	1_60	2010	306	500	1.26236	125.2298	45.09863	0.252	2.995	0.123	2.168	0.062	1.199	1.137054	0	74.18	32.51
11/2/2010 6:00	17896	1_60	2010	306	600	1.0606	148.2452	19.24796	-0.048	0.8	0.006	0.151	-0.455	0.847	1.302182	0	75.23	31.69
11/2/2010 7:00	17897	1_60	2010	306	700	0.9929892	236.5311	25.80041	0	0.015	0	0.029	-1.107	0.34	1.446366	0	79.14	30.45
11/2/2010 8:00	17898	1_60	2010	306	800	0.8244859	136.0717	23.96939	0.142	3.544	0.2	2.326	0.45	0.816	0.3661349	0	72.18	34.18
11/2/2010 9:00	17899	1_60	2010	306	900	0.7349727	289.4849	38.58106	-1.763	16.15	0.329	12.39	4.594	4.28	-0.3138915	0	52.07	42.98
11/2/2010 10:00	17900	1_60	2010	306	1000	1.12506	297.7511	43.07717	3.143	23.54	1.871	20.55	6.999	6.508	-0.4907428	0	45.29	46.69
11/2/2010 11:00	17901	1_60	2010	306	1100	1.467273	313.7193	33.68261	0.531	29.79	-2.446	26.08	9.57	9.01	-0.5654936	0	38.14	51.11
11/2/2010 12:00	17902	1_60	2010	306	1200	2.526117	306.5895	20.42393	3.095	28.86	0.499	28.92	12.46	11.67	-0.793608	0	32.48	55.33
11/2/2010 13:00	17903	1_60	2010	306	1300	2.117594	307.843	24.69042	0.017	29.77	-1.331	29.17	14.84	14.18	-0.6665901	0	29.31	59.76
11/2/2010 14:00	17904	1_60	2010	306	1400	1.86077	291.7612	35.74339	4.82	29.78	4.029	28.22	18.06	17.39	-0.6660547	0	26.05	65.57
11/2/2010 15:00	17905	1_60	2010	306	1500	4.349799	311.8847	15.98097	6.066	30.28	0.121	34.51	20.32	19.57	-0.7457154	0	25.34	68.78
11/2/2010 16:00	17906	1_60	2010	306	1600	3.980471	314.7582	14.05452	6.735	26.72	-0.258	28	20.62	20.11	-0.5094081	0	25.33	69.6
11/2/2010 17:00	17907	1_60	2010	306	1700	3.90427	335.0005	12.32628	6.535	20.63	-4.892	22.04	19.44	19.53	0.0949069	0	27.62	67.51
11/2/2010 18:00	17908	1_60	2010	306	1800	4.507463	345.1083	11.58472	11.86	20.47	-2.042	19.48	17.01	17.63	0.6164088	0	32.13	62.89
11/2/2010 19:00	17909	1_60	2010	306	1900	2.467315	288.5058	24.95817	6.473	25.78	5.839	22.53	14.72	15.95	1.226681	0	36.96	58.98
11/2/2010 20:00	17910	1_60	2010	306	2000	1.823999	280.4985	32.18449	-0.573	11.29	0.31	11.62	13.65	15.61	1.961036	0	39.67	57.06
11/2/2010 21:00	17911	1_60	2010	306	2100	2.225909	151.1158	11.43714	-0.235	3.476	0.862	3.763	10.88	13.24	2.36138	0	47.98	52.27
11/2/2010 22:00	17912	1_60	2010	306	2200	1.807411	145.4639	23.41588	-0.02	8.65	2.046	10.24	9.92	11.87	1.953026	0	51.03	50.65
11/2/2010 23:00	17913	1_60	2010	306	2300	2.594394	130.7273	9.992248	-0.397	8.48	1.479	8.96	7.687	9.99	2.307246	0	59.35	46.41

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
10/31/2010 0:00	17842	1_60	2010	304	0	24.64	0.069	5.054	4.983	244.7	2346	13.39
10/31/2010 1:00	17843	1_60	2010	304	100	24.66	0.061	5.053	3.345	87.4	4	13.42
10/31/2010 2:00	17844	1_60	2010	304	200	24.66	0.028	5.052	3.891	55	149	13.45
10/31/2010 3:00	17845	1_60	2010	304	300	24.66	0.036	5.05	3.447	222.9	212	13.48
10/31/2010 4:00	17846	1_60	2010	304	400	24.69	0.065	5.049	3.004	159.1	300	13.51
10/31/2010 5:00	17847	1_60	2010	304	500	24.7	0.059	5.049	2.799	34.99	431	13.54
10/31/2010 6:00	17848	1_60	2010	304	600	24.7	0.059	5.047	3.925	106.5	516	13.57
10/31/2010 7:00	17849	1_60	2010	304	700	24.73	4.609 AQ		3.686	92.5	628	13.59
10/31/2010 8:00	17850	1_60	2010	304	800	24.73	121.9	5.051	4.745	116.8	759	13.58
10/31/2010 9:00	17851	1_60	2010	304	900	24.73	299.6	5.048	5.154	119.6	800	13.48
10/31/2010 10:00	17852	1_60	2010	304	1000	24.73	465.9	5.043	3.959	275	924	13.37
10/31/2010 11:00	17853	1_60	2010	304	1100	24.73	574.3	5.04	4.506	308.7	1051	13.29
10/31/2010 12:00	17854	1_60	2010	304	1200	24.71	655.5	5.036	4.642	317.8	1121	13.22
10/31/2010 13:00	17855	1_60	2010	304	1300	24.7	649	5.031	6.827	267.2	1251	13.17
10/31/2010 14:00	17856	1_60	2010	304	1400	24.68	582.4	5.023	5.393	221.2	1303	13.13
10/31/2010 15:00	17857	1_60	2010	304	1500	24.67	468.2	5.009	4.471	45.63	1404	13.12
10/31/2010 16:00	17858	1_60	2010	304	1600	24.67	303.7	5.003	4.096	51.95	1516	13.11
10/31/2010 17:00	17859	1_60	2010	304	1700	24.67	102.9	4.998	2.901	279.7	1653	13.13
10/31/2010 18:00	17860	1_60	2010	304	1800	24.7	2.977	4.99	4.335	294.7	1752	13.2
10/31/2010 19:00	17861	1_60	2010	304	1900	24.73	0.033	4.984	4.779	297.1	1818	13.29
10/31/2010 20:00	17862	1_60	2010	304	2000	24.74	0.063	4.98	3.14	247.3	1908	13.34
10/31/2010 21:00	17863	1_60	2010	304	2100	24.77	0.066	4.976	2.56	234.3	2019	13.39
10/31/2010 22:00	17864	1_60	2010	304	2200	24.78	0.033	4.972	2.185	103.4	2150	13.44
10/31/2010 23:00	17865	1_60	2010	304	2300	24.8	0.033	4.97	2.014	128.4	2214	13.48
11/1/2010 0:00	17866	1_60	2010	305	0	24.8	0.057	4.968	3.721	113.1	2342	13.5
11/1/2010 1:00	17867	1_60	2010	305	100	24.81	0.065	4.966	3.516	112.3	36	13.52
11/1/2010 2:00	17868	1_60	2010	305	200	24.82	0.066	4.965	2.799	129.6	101	13.54
11/1/2010 3:00	17869	1_60	2010	305	300	24.82	0.066	4.965	1.365	112	229	13.55
11/1/2010 4:00	17870	1_60	2010	305	400	24.84	0.065	4.966	1.946	67.45	309	13.57
11/1/2010 5:00	17871	1_60	2010	305	500	24.87	0.066	4.969	2.014	46.04	459	13.59
11/1/2010 6:00	17872	1_60	2010	305	600	24.88	0.066	4.969	2.628	84.6	559	13.6
11/1/2010 7:00	17873	1_60	2010	305	700	24.9	4.081	4.969	3.209	76.68	613	13.62
11/1/2010 8:00	17874	1_60	2010	305	800	24.93	119.2	4.969	3.277	321	701	13.6
11/1/2010 9:00	17875	1_60	2010	305	900	24.93	300.4	4.968	1.536	140.4	802	13.52
11/1/2010 10:00	17876	1_60	2010	305	1000	24.93	465	4.964	3.379	309.4	952	13.4
11/1/2010 11:00	17877	1_60	2010	305	1100	24.92	582.2	4.957	6.383	306.8	1056	13.3
11/1/2010 12:00	17878	1_60	2010	305	1200	24.91	646.3	4.951	8.67	310.5	1154	13.23
11/1/2010 13:00	17879	1_60	2010	305	1300	24.9	644.3 IL		9.25	347.9	1256	13.14
11/1/2010 14:00	17880	1_60	2010	305	1400	24.89	583.2 IL		8.23	333.8	1318	13.14
11/1/2010 15:00	17881	1_60	2010	305	1500	24.89	463.6 IL		9.08	335.7	1445	13.14
11/1/2010 16:00	17882	1_60	2010	305	1600	24.89	299.8 IL		9.08	331.2	1508	13.14
11/1/2010 17:00	17883	1_60	2010	305	1700	24.9	103.5 IL		8.43	345.4	1605	13.16
11/1/2010 18:00	17884	1_60	2010	305	1800	24.93	2.744 IL		8.81	2.703	1744	13.21
11/1/2010 19:00	17885	1_60	2010	305	1900	24.95	0.043 IL		7.68	329.4	1849	13.27
11/1/2010 20:00	17886	1_60	2010	305	2000	24.97	0.033 IL		6.076	314.1	1910	13.31
11/1/2010 21:00	17887	1_60	2010	305	2100	24.98	0.062 IL		3.14	130.6	2023	13.35
11/1/2010 22:00	17888	1_60	2010	305	2200	24.99	0.052 IL		3.482	151.9	2155	13.42
11/1/2010 23:00	17889	1_60	2010	305	2300	24.99	0.026 IL		3.516	140	2220	13.48
11/2/2010 0:00	17890	1_60	2010	306	0	25	0.06 IL		3.618	106.1	2348	13.51
11/2/2010 1:00	17891	1_60	2010	306	100	25	0.062 IL		2.628	130.9	1	13.54
11/2/2010 2:00	17892	1_60	2010	306	200	25	0.053 IL		2.423	137.4	136	13.57
11/2/2010 3:00	17893	1_60	2010	306	300	25	0.068 IL		4.54	76.93	247	13.58
11/2/2010 4:00	17894	1_60	2010	306	400	25.01	0.063 IL		2.901	107.4	315	13.59
11/2/2010 5:00	17895	1_60	2010	306	500	25.01	0.067 IL		2.15	81.5	459	13.6
11/2/2010 6:00	17896	1_60	2010	306	600	25.01	0.066 IL		2.15	82.1	500	13.61
11/2/2010 7:00	17897	1_60	2010	306	700	25.02	3.704 IL		1.775	287.2	650	13.61
11/2/2010 8:00	17898	1_60	2010	306	800	25.04	113.7 IL		1.434	123.5	749	13.6
11/2/2010 9:00	17899	1_60	2010	306	900	25.03	290.7 IL		2.219	309.5	859	13.5
11/2/2010 10:00	17900	1_60	2010	306	1000	25.02	450.2 IL		2.56	244.1	935	13.39
11/2/2010 11:00	17901	1_60	2010	306	1100	25	564.9 IL		3.413	319.1	1056	13.3
11/2/2010 12:00	17902	1_60	2010	306	1200	24.97	627 IL		5.188	290.2	1150	13.22
11/2/2010 13:00	17903	1_60	2010	306	1300	24.94	626.4 IL		4.335	279.3	1208	13.17
11/2/2010 14:00	17904	1_60	2010	306	1400	24.91	564.8 IL		5.495	304.2	1359	13.11
11/2/2010 15:00	17905	1_60	2010	306	1500	24.9	445.9 IL		7.373	313	1450	13.07
11/2/2010 16:00	17906	1_60	2010	306	1600	24.89	285.6 IL		7.441	305.3	1543	13.06
11/2/2010 17:00	17907	1_60	2010	306	1700	24.89	96.2 IL		7.441	350.2	1642	13.07
11/2/2010 18:00	17908	1_60	2010	306	1800	24.91	2.497 IL		7.373	342	1721	13.11
11/2/2010 19:00	17909	1_60	2010	306	1900	24.93	0.032 IL		5.769	345.8	1804	13.16
11/2/2010 20:00	17910	1_60	2010	306	2000	24.94	0.036 IL		4.028	289	1916	13.22
11/2/2010 21:00	17911	1_60	2010	306	2100	24.94	0.052 IL		3.106	126.1	2028	13.26
11/2/2010 22:00	17912	1_60	2010	306	2200	24.95	0.038 IL		4.096	115.8	2147	13.3
11/2/2010 23:00	17913	1_60	2010	306	2300	24.96	0.068 IL		3.823	117.3	2211	13.34

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/3/2010 0:00	17914	1_60	2010	307	0	3.566177	119.8201	7.679494	2.919	8.51	7.137	10.48	7.452	10.56	3.108301	0	60.75	45.94
11/3/2010 1:00	17915	1_60	2010	307	100	3.185143	112.583	7.288381	1.569	5.276	2.989	6.869	4.861	7.863	3.00204	0	70.49	41.08
11/3/2010 2:00	17916	1_60	2010	307	200	2.891768	110.3061	9.415888	0.446	3.331	0.221	2.629	4.447	6.818	2.370756	0	72.29	40.31
11/3/2010 3:00	17917	1_60	2010	307	300	1.074659	176.9024	58.9433	-0.168	3.572	-0.176	3.344	3.496	5.324	1.828045	0	73.77	38.88
11/3/2010 4:00	17918	1_60	2010	307	400	1.60023	127.382	24.21957	0.063	0.855	0.189	1.401	2.162	3.786	1.624524	0	80.4	36.29
11/3/2010 5:00	17919	1_60	2010	307	500	1.643984	126.4246	14.78369	0.009	1.607	0.002	1.916	2.209	5.319	3.109153	0	78.93	36.6
11/3/2010 6:00	17920	1_60	2010	307	600	0.8435716	161.6753	44.69139	-0.033	0.535	-0.012	0.273	1.493	4.488	2.995561	0	82.8	34.96
11/3/2010 7:00	17921	1_60	2010	307	700	0.5420356	227.7196	42.63952	0.004	0.156	0.001	0.033	0.934	2.597	1.662599	0	84.7	34.13
11/3/2010 8:00	17922	1_60	2010	307	800	1.504591	107.7218	15.65567	0.203	2.496	0.149	2.208	2.971	3.941	0.9700442	0	76.87	38.57
11/3/2010 9:00	17923	1_60	2010	307	900	0.7595787	118.1522	49.81607	2.505	11.98	3.429	11.51	8.06	7.715	-0.3465738	0	55.2	49.05
11/3/2010 10:00	17924	1_60	2010	307	1000	1.61649	298.5005	22.19037	-3.807	21.8	-2.913	21.31	10.17	9.63	-0.542362	0	49.53	51.93
11/3/2010 11:00	17925	1_60	2010	307	1100	1.256473	310.377	36.61041	1.371	29.21	0.116	26.7	12.27	11.72	-0.5525579	0	43.83	56.06
11/3/2010 12:00	17926	1_60	2010	307	1200	1.595247	302.8885	30.20571	2.22	29.08	1.444	29.71	15	14.31	-0.6983055	0	36.5	60.6
11/3/2010 13:00	17927	1_60	2010	307	1300	1.788238	286.9143	34.52536	4.021	28.54	4.689	27.55	17.47	16.75	-0.7169811	0	30.51	64.84
11/3/2010 14:00	17928	1_60	2010	307	1400	1.599056	259.9425	42.81485	0.247	31.19	5.722	30.53	19.78	18.96	-0.821111	0	25.67	68.78
11/3/2010 15:00	17929	1_60	2010	307	1500	1.897722	231.6393	33.91325	0.023	26.45	6.558	28.38	20.89	20.11	-0.7741475	0	22.08	70.74
11/3/2010 16:00	17930	1_60	2010	307	1600	2.260928	247.8844	18.03117	2.574	20.72	9.22	21.7	21	20.36	-0.6389268	0	21.16	70.89
11/3/2010 17:00	17931	1_60	2010	307	1700	1.94022	258.2953	8.460614	0.743	6.894	2.613	6.779	17.92	18.37	0.4459	0	26.16	65.56
11/3/2010 18:00	17932	1_60	2010	307	1800	2.131138	271.6732	22.7035	0.975	7.189	4.899	10.25	14.37	16.64	2.264678	0	32.58	58.14
11/3/2010 19:00	17933	1_60	2010	307	1900	2.024191	267.1161	13.4576	-0.143	3.596	0.432	3.232	13.86	15.74	1.876184	0	36.55	57.35
11/3/2010 20:00	17934	1_60	2010	307	2000	1.001641	254.2649	28.37301	0.255	2.189	0.309	1.632	10.54	14.3	3.7524	0	43.76	51.91
11/3/2010 21:00	17935	1_60	2010	307	2100	1.348656	108.2088	26.31242	0.014	0.649	0.111	1.21	7.354	12.77	5.414427	0	52.41	46.36
11/3/2010 22:00	17936	1_60	2010	307	2200	2.537747	129.6902	6.887641	1.399	5.964	3.506	8.86	6.431	10.23	3.799586	0	57.38	44.24
11/3/2010 23:00	17937	1_60	2010	307	2300	3.258811	118.0411	9.902227	1.485	4.809	4.978	8.78	7.634	10.12	2.483971	0	52.81	46.31
11/4/2010 0:00	17938	1_60	2010	308	0	2.533828	37.54632	41.69865	1.518	6.018	0.124	3.959	4.841	6.977	2.136233	0	63.21	41.12
11/4/2010 1:00	17939	1_60	2010	308	100	1.18351	157.1866	37.43371	-0.015	1.732	0.179	1.745	4.198	6.282	2.083764	0	66.28	39.84
11/4/2010 2:00	17940	1_60	2010	308	200	1.681284	138.388	9.154317	-0.058	1.326	0.01	0.441	3.671	7.178	3.507142	0	67.66	39.45
11/4/2010 3:00	17941	1_60	2010	308	300	2.949486	103.2528	7.87046	1.02	4.795	0.696	4.448	1.582	3.049	1.466632	0	78.23	35.24
11/4/2010 4:00	17942	1_60	2010	308	400	1.335127	234.3999	44.22904	-0.079	1.575	0.32	1.953	0.801	2.524	1.723338	0	79.64	33.95
11/4/2010 5:00	17943	1_60	2010	308	500	0.7804835	207.2587	31.16339	0.076	0.935	0.152	1.15	1.188	3.542	2.353777	0	80.2	34.4
11/4/2010 6:00	17944	1_60	2010	308	600	1.150828	118.4652	19.00109	-0.001	0.149	0.002	0.174	0.65	2.223	1.57306	0	79.54	33.75
11/4/2010 7:00	17945	1_60	2010	308	700	1.48548	130.2053	10.27985	-0.003	0.278	0.002	0.228	-0.516	1.826	2.341712	0	84.1	31.64
11/4/2010 8:00	17946	1_60	2010	308	800	0.4708719	161.3456	25.12902	0.27	2.409	0.226	2.245	1.272	2.736	1.463679	0	76.4	36.17
11/4/2010 9:00	17947	1_60	2010	308	900	0.8248275	234.4296	31.4888	2.429	17.49	4.17	15.41	6.544	6.179	-0.3653539	0	56.59	45.79
11/4/2010 10:00	17948	1_60	2010	308	1000	1.057844	291.3016	41.96045	-1.562	24.36	-1.304	21.66	8.78	8.31	-0.4676732	0	45.77	49.99
11/4/2010 11:00	17949	1_60	2010	308	1100	1.297859	286.534	45.34783	3.88	29.24	4.899	29.09	10.9	10.34	-0.5597553	0	39.75	53.52
11/4/2010 12:00	17950	1_60	2010	308	1200	1.334525	301.1176	33.38612	-2.309	31.91	-4.467	30.46	13.05	12.47	-0.5747616	0	35.78	57.39
11/4/2010 13:00	17951	1_60	2010	308	1300	1.462464	284.8432	29.67554	1.996	33.47	2.421	31.69	15.76	15.04	-0.7214823	0	30.75	62.04
11/4/2010 14:00	17952	1_60	2010	308	1400	1.803484	296.6371	35.78447	5.367	30.25	4.038	29.42	18.05	17.31	-0.7417187	0	24.75	65.51
11/4/2010 15:00	17953	1_60	2010	308	1500	1.738064	287.2184	47.98447	2.786	26.46	2.897	25.67	18.93	18.29	-0.639535	0	21.47	67.25
11/4/2010 16:00	17954	1_60	2010	308	1600	1.752059	249.9999	28.77373	3.248	20.22	6.994	21.23	19.21	18.59	-0.6178474	0	20.27	67.87
11/4/2010 17:00	17955	1_60	2010	308	1700	1.694442	226.3613	7.941379	0.582	6.191	1.96	6.179	16.16	16.82	0.6622177	0	25.27	62.46
11/4/2010 18:00	17956	1_60	2010	308	1800	1.302036	161.1989	20.61761	-0.008	0.399	0.006	0.209	10.61	14.11	3.501519	0	38.23	51.64
11/4/2010 19:00	17957	1_60	2010	308	1900	1.196086	156.2944	30.48695	0.084	2.128	0.31	2.668	9.17	13.59	4.4167	0	42.84	49.03
11/4/2010 20:00	17958	1_60	2010	308	2000	1.476753	122.6839	15.02346	-0.009	2.465	0.058	1.598	7.592	11.11	3.519933	0	48.88	46.53
11/4/2010 21:00	17959	1_60	2010	308	2100	1.900906	119.6644	10.44792	0.012	0.404	0.056	0.664	6.459	9.54	3.080814	0	54.65	44.09
11/4/2010 22:00	17960	1_60	2010	308	2200	1.513439	137.8712	34.55006	0.173	2.212	-0.095	1.577	6.456	9.16	2.703146	0	54.77	44.27
11/4/2010 23:00	17961	1_60	2010	308	2300	2.853559	131.9785	13.80026	1.134	6.802	5.86	8.67	5.467	8.56	3.089615	0	57.01	42.54
11/5/2010 0:00	17962	1_60	2010	309	0	2.144655	128.6212	22.26727	3.128	10.3	5.97	12.18	4.942	7.155	2.213013	0	56.29	41.6
11/5/2010 1:00	17963	1_60	2010	309	100	0.9612484	185.4783	19.02938	-0.003	0.223	0.031	0.548	1.285	2.733	1.447871	0	73.01	34.84
11/5/2010 2:00	17964	1_60	2010	309	200	1.166188	145.7973	26.61069	0.102	1.437	0.014	0.696	1.375	3.016	1.64094	0	71.8	34.99
11/5/2010 3:00	17965	1_60	2010	309	300	1.247461	110.8537	18.08571	0.001	0.092	0.012	0.303	0.903	4.002	3.098834	0	73.45	34.09
11/5/2010 4:00	17966	1_60	2010	309	400	1.649235	114.6023	9.396147	-0.003	0.121	0	0.104	0.171	3.145	2.974025	0	76.84	32.72
11/5/2010 5:00	17967	1_60	2010	309	500	1.100941	175.3165	38.04227	-0.01	0.313	0.411	2.326	0.368	2.567	2.198665	0	76.1	33.13
11/5/2010 6:00	17968	1_60	2010	309	600	1.448305	304.5078	22.38742	0.345	2.469	0.079	1.277	-0.794	0.755	1.549647	0	80.5	31
11/5/2010 7:00	17969	1_60	2010	309	700	1.602597	106.3875	19.91158	0.002	0.089	0.005	0.204	-1.092	0.932	2.023541	0	80.2	30.69
11/5/2010 8:00	17970	1_60	2010	309	800	1.227028	110.6416	16.9339	0.097	1.728	0.085	1.331	1.303	2.52	1.217532	0	72.1	35.54
11/5/2010 9:00	17971	1_60	2010	309	900	0.6823265	42.57362	37.69566	1.141	16.27	2.385	17.45	6.272	6.021	-0.2512772	0	50.24	45.95
11/5/2010 10:00	17972	1_60	2010	309	1000	1.749073	297.985	24.80102	1.503	24.2	0.04	22.1	8.77	8.22	-0.5487365	0	43.04	49.34
11/5/2010 11:00	17973	1_60	2010	309	1100	1.259091	277.3219	38.00183	-0.22	26.96	1.565	25.06	10.55	9.97	-0.5764116	0	36.01	52.93
11/5/2010 12:00	17974	1_60	2010	309	1200	1.212865	277.8652	38.61777	3.153	27.4	3.73	27.13	13.26	12.5	-0.753117	0	31.63	57.78
11/5/2010 13:00	17975	1_60	2010	309	1300	1.507462	283.7923	36.01722	0.569	31.48	0.538	29.15	15.63	14.95	-0.6790209	0	28.51	61.89
11/5/2010 14:00	17976	1_60	2010	309	1400	1.151766	254.5358	49.97687	3.256	32.16	6.269	31.4	18.23	17.51	-0.713633	0	25.17	66.16
11/5/2010 15:00	17977	1_60	2010	309	1500	1.183145	225.0039	33.28643	3.649	26.05	7.235	25.26	19.87	19.15	-0.7166426	0	22.8	69.34
11/5/2010 16:00	17978	1_60	2010	309	1600	1.505814	246.132	27.61849	3.741	19.16	6.88	18.47	19.84	19.33	-0.5103799	0	23.23	69.2
11/5/2010 17:00	17979	1_60	2010	309	1700	1.128425	250.9194	10.1873	0.669	4.496	1.284	5.432	17.21	17.85	0.6402373	0	27.76	64.61
11/5/2010 18:00	17980	1_60	2010	309	1800	1.598338	198.5211	10.25953	0.007	0.351	0.068	0.707	12.03	15.42	3.390653	0	39.7	54.31
11/5/2010 19:00	17981	1_60	2010	309	1900	1.735836	144.4992	22.92506	0.003	0.5	0.122	0.919	9.63	12.21	2.584368	0	48.23	49.79
11/5/2010 20:00	17982	1_60	2010	309	2000	1.1805	122.1382	39.59361	-0.004	0.086	0	0.07	8.94	12.72	3.783124	0	50.84	48.33
11/5/2010 21:00	17983	1_60	2010	309	2100	0.7134117	180.2704	47.147	-0.015	0.238	0.003	0.229	8.53	11.24	2.70966	0	51.49	47.91
11/5/2010 22:00	17984	1_60	2010	309	2200	0.9612204	109.9891	22.05816	0.026	1.332	0.043	0.957	7.912	10.67	2.759693	0	53.9	46.91
11/5/2010 23:00	17985	1_60	2010	309	2300	0.8384246	142.0895	27.09194	0.118	1.739	0.126	1.38	5.433	8.45	3.018501	0	62.77	42.26

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/3/2010 0:00	17914	1_60	2010	307	0	24.95	0.08	IL	5.939	116.4	2338	13.37
11/3/2010 1:00	17915	1_60	2010	307	100	24.95	0.07	IL	4.506	117.2	46	13.4
11/3/2010 2:00	17916	1_60	2010	307	200	24.95	0.037	IL	3.959	105.2	102	13.44
11/3/2010 3:00	17917	1_60	2010	307	300	24.96	0.033	IL	2.56	82.2	221	13.46
11/3/2010 4:00	17918	1_60	2010	307	400	24.96	0.059	IL	3.516	99.8	316	13.5
11/3/2010 5:00	17919	1_60	2010	307	500	24.97	0.066	IL	3.413	98	415	13.52
11/3/2010 6:00	17920	1_60	2010	307	600	24.98	0.066	IL	2.15	138.6	500	13.54
11/3/2010 7:00	17921	1_60	2010	307	700	24.99	3.372	IL	1.229	236.8	631	13.55
11/3/2010 8:00	17922	1_60	2010	307	800	25.01	112.6	IL	2.253	126.3	722	13.54
11/3/2010 9:00	17923	1_60	2010	307	900	25.01	292.9	IL	1.843	90.9	801	13.45
11/3/2010 10:00	17924	1_60	2010	307	1000	25	455.6	IL	3.891	275.9	957	13.33
11/3/2010 11:00	17925	1_60	2010	307	1100	24.98	573.1	IL	3.14	301.2	1052	13.24
11/3/2010 12:00	17926	1_60	2010	307	1200	24.96	638.1	IL	3.994	289.1	1111	13.17
11/3/2010 13:00	17927	1_60	2010	307	1300	24.93	637.4	IL	3.823	286	1225	13.11
11/3/2010 14:00	17928	1_60	2010	307	1400	24.91	574.6	IL	3.447	264.3	1345	13.07
11/3/2010 15:00	17929	1_60	2010	307	1500	24.88	456	IL	4.983	239.7	1449	13.04
11/3/2010 16:00	17930	1_60	2010	307	1600	24.88	291.7	IL	3.959	237.9	1516	13.03
11/3/2010 17:00	17931	1_60	2010	307	1700	24.87	96.5	IL	2.833	240.3	1600	13.05
11/3/2010 18:00	17932	1_60	2010	307	1800	24.89	2.4	IL	4.198	235.2	1753	13.12
11/3/2010 19:00	17933	1_60	2010	307	1900	24.9	0.032	IL	3.209	270.1	1801	13.2
11/3/2010 20:00	17934	1_60	2010	307	2000	24.91	0.039	IL	2.594	281.4	1901	13.26
11/3/2010 21:00	17935	1_60	2010	307	2100	24.92	0.045	IL	2.56	154.3	2056	13.32
11/3/2010 22:00	17936	1_60	2010	307	2200	24.92	0.067	IL	6.144	129.2	2156	13.38
11/3/2010 23:00	17937	1_60	2010	307	2300	24.92	0.07	IL	5.427	134.3	2201	13.4
11/4/2010 0:00	17938	1_60	2010	308	0	24.93	0.061	IL	4.267	113.3	2305	13.42
11/4/2010 1:00	17939	1_60	2010	308	100	24.93	0.029	IL	2.389	112	31	13.46
11/4/2010 2:00	17940	1_60	2010	308	200	24.93	0.042	IL	2.901	132.9	121	13.48
11/4/2010 3:00	17941	1_60	2010	308	300	24.91	0.061	IL	4.267	96.8	249	13.51
11/4/2010 4:00	17942	1_60	2010	308	400	24.92	0.065	IL	3.447	136.8	309	13.53
11/4/2010 5:00	17943	1_60	2010	308	500	24.92	0.066	IL	1.809	226.1	421	13.56
11/4/2010 6:00	17944	1_60	2010	308	600	24.92	0.063	IL	2.765	116.6	559	13.57
11/4/2010 7:00	17945	1_60	2010	308	700	24.92	2.651	IL	2.935	113.6	601	13.59
11/4/2010 8:00	17946	1_60	2010	308	800	24.95	108	IL	1.297	172.6	759	13.58
11/4/2010 9:00	17947	1_60	2010	308	900	24.94	285.6	IL	1.741	251.5	826	13.48
11/4/2010 10:00	17948	1_60	2010	308	1000	24.92	442.6	IL	2.799	301.5	950	13.36
11/4/2010 11:00	17949	1_60	2010	308	1100	24.91	555.9	IL	3.209	248.4	1049	13.27
11/4/2010 12:00	17950	1_60	2010	308	1200	24.87	623	IL	3.106	347.3	1147	13.2
11/4/2010 13:00	17951	1_60	2010	308	1300	24.84	629.8	IL	3.243	269.6	1217	13.14
11/4/2010 14:00	17952	1_60	2010	308	1400	24.81	568.2	IL	4.096	284.2	1313	13.09
11/4/2010 15:00	17953	1_60	2010	308	1500	24.8	444.8	IL	3.959	278.8	1412	13.07
11/4/2010 16:00	17954	1_60	2010	308	1600	24.79	282.9	IL	3.311	290.1	1509	13.06
11/4/2010 17:00	17955	1_60	2010	308	1700	24.78	90.8	IL	2.389	244.6	1603	13.08
11/4/2010 18:00	17956	1_60	2010	308	1800	24.78	2.057	IL	2.56	121.4	1744	13.16
11/4/2010 19:00	17957	1_60	2010	308	1900	24.79	0.038	IL	2.662	161.1	1846	13.25
11/4/2010 20:00	17958	1_60	2010	308	2000	24.79	0.034	IL	2.253	138.1	1950	13.32
11/4/2010 21:00	17959	1_60	2010	308	2100	24.8	0.062	IL	3.209	126.8	2016	13.37
11/4/2010 22:00	17960	1_60	2010	308	2200	24.81	0.072	IL	2.731	84.8	2153	13.41
11/4/2010 23:00	17961	1_60	2010	308	2300	24.81	0.067	IL	5.53	124.6	2259	13.43
11/5/2010 0:00	17962	1_60	2010	309	0	24.8	0.053	IL	6.315	124.4	2302	13.45
11/5/2010 1:00	17963	1_60	2010	309	100	24.81	0.03	IL	2.389	229.4	3	13.48
11/5/2010 2:00	17964	1_60	2010	309	200	24.81	0.064	IL	2.014	119.2	159	13.52
11/5/2010 3:00	17965	1_60	2010	309	300	24.81	0.063	IL	2.628	148.3	202	13.55
11/5/2010 4:00	17966	1_60	2010	309	400	24.81	0.061	IL	3.038	109.2	328	13.57
11/5/2010 5:00	17967	1_60	2010	309	500	24.81	0.064	IL	2.526	92.6	400	13.58
11/5/2010 6:00	17968	1_60	2010	309	600	24.82	0.064	IL	2.697	340.2	547	13.59
11/5/2010 7:00	17969	1_60	2010	309	700	24.82	2.672	IL	2.321	109.4	609	13.61
11/5/2010 8:00	17970	1_60	2010	309	800	24.84	104.4	IL	2.116	89.7	716	13.57
11/5/2010 9:00	17971	1_60	2010	309	900	24.83	281.7	IL	1.638	278.5	856	13.48
11/5/2010 10:00	17972	1_60	2010	309	1000	24.83	441.1	IL	4.437	304.8	926	13.37
11/5/2010 11:00	17973	1_60	2010	309	1100	24.81	555.9	IL	2.97	273	1035	13.28
11/5/2010 12:00	17974	1_60	2010	309	1200	24.78	619.2	IL	2.799	286.4	1143	13.2
11/5/2010 13:00	17975	1_60	2010	309	1300	24.75	619.1	IL	3.277	269.2	1235	13.14
11/5/2010 14:00	17976	1_60	2010	309	1400	24.72	557.6	IL	3.106	252.5	1355	13.09
11/5/2010 15:00	17977	1_60	2010	309	1500	24.71	429.4	IL	2.765	190.9	1429	13.06
11/5/2010 16:00	17978	1_60	2010	309	1600	24.7	255.4	IL	2.697	304.8	1508	13.05
11/5/2010 17:00	17979	1_60	2010	309	1700	24.7	83.6	IL	2.253	260.4	1608	13.07
11/5/2010 18:00	17980	1_60	2010	309	1800	24.71	1.8	IL	2.731	127.5	1750	13.14
11/5/2010 19:00	17981	1_60	2010	309	1900	24.72	0.044	IL	2.731	146.4	1828	13.23
11/5/2010 20:00	17982	1_60	2010	309	2000	24.72	0.033	IL	2.219	115	1931	13.3
11/5/2010 21:00	17983	1_60	2010	309	2100	24.74	0.059	IL	1.707	250.3	2031	13.34
11/5/2010 22:00	17984	1_60	2010	309	2200	24.75	0.081	IL	2.219	95.3	2157	13.38
11/5/2010 23:00	17985	1_60	2010	309	2300	24.75	0.069	IL	2.423	91.1	2201	13.41

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
11/6/2010 0:00	17986	1_60	2010	310	0	0.8612963	230.3946	32.02087	-0.999	10.33	-0.328	10.35	6.759	8.67	1.912857	0	59.7	44.03
11/6/2010 1:00	17987	1_60	2010	310	100	0.8798697	230.4985	16.40497	0.005	0.481	0.001	0.057	4.042	5.718	1.675755	0	67.21	39.93
11/6/2010 2:00	17988	1_60	2010	310	200	1.477575	125.6187	20.35694	-0.02	0.839	-0.031	0.665	2.938	5.755	2.817207	0	70.94	37.93
11/6/2010 3:00	17989	1_60	2010	310	300	1.029431	141.0979	19.26948	0.001	0.064	0.002	0.027	2.057	5.728	3.671186	0	74.65	36.31
11/6/2010 4:00	17990	1_60	2010	310	400	0.7082905	128.3008	28.12852	-0.027	0.63	0	0.018	1.875	4.629	2.754454	0	76.11	35.8
11/6/2010 5:00	17991	1_60	2010	310	500	0.7617769	150.8657	25.08114	0	0.015	0	0.007	1.319	4.155	2.836575	0	76.7	35.36
11/6/2010 6:00	17992	1_60	2010	310	600	1.043229	175.9115	38.70741	-0.032	0.77	-0.018	0.582	0.883	3.389	2.5064	0	79.91	34.18
11/6/2010 7:00	17993	1_60	2010	310	700	0.8906775	138.8224	57.97961	-0.047	0.726	0.026	0.404	-0.032	2.949	2.981039	0	82.2	32.58
11/6/2010 8:00	17994	1_60	2010	310	800	0.7597559	243.3661	45.17793	0.001	0.203	0.008	0.204	1.57	2.678	1.107643	0	76.41	36.31
11/6/2010 9:00	17995	1_60	2010	310	900	0.8058293	313.2997	42.80601	2.92	14.18	2.189	11.03	6.04	5.77	-0.2705128	0	57.43	45.66
11/6/2010 10:00	17996	1_60	2010	310	1000	1.325078	292.2978	23.59859	0.47	25.22	-0.059	22.43	9.09	8.62	-0.4698862	0	47.58	50.13
11/6/2010 11:00	17997	1_60	2010	310	1100	1.00383	315.1967	42.62806	0.496	23.91	-0.391	21.04	11.59	11.07	-0.5218014	0	38.76	55.27
11/6/2010 12:00	17998	1_60	2010	310	1200	0.9772914	305.6293	42.57682	-4.024	30.8	-4.851	30.21	13.88	13.43	-0.4579055	0	33.82	59.24
11/6/2010 13:00	17999	1_60	2010	310	1300	0.9698687	311.8705	61.76794	3.603	30.52	2.92	27.61	16.76	16.14	-0.6183994	0	29.32	64.48
11/6/2010 14:00	18000	1_60	2010	310	1400	1.085836	312.7482	44.6678	1.966	32.07	2.044	31.94	18.84	18.31	-0.533308	0	26.78	67.73
11/6/2010 15:00	18001	1_60	2010	310	1500	1.049168	321.2738	52.62535	0.025	26.08	-2.506	24.58	20.34	19.87	-0.4777218	0	24.09	70.38
11/6/2010 16:00	18002	1_60	2010	310	1600	4.714908	221.1606	13.3516	2.968	26.59	28.97	27.82	21.34	20.99	-0.3505858	0	19.8	70.8
11/6/2010 17:00	18003	1_60	2010	310	1700	5.077776	202.6906	14.82254	-1.098	27.99	29.7	31.69	19.64	19.9	0.2618377	0	21.61	67.65
11/6/2010 18:00	18004	1_60	2010	310	1800	1.223248	219.9769	58.53184	-0.715	13.36	0.731	14.9	17.68	18.61	0.9296171	0	25.49	64.05
11/6/2010 19:00	18005	1_60	2010	310	1900	1.704303	125.4263	57.6824	-0.354	14.09	0.536	13.31	13.33	15.37	2.049809	0	34	56.42
11/6/2010 20:00	18006	1_60	2010	310	2000	1.482255	112.7316	46.34763	1.454	7.236	2.255	8.92	11.49	13.58	2.090509	0	38.79	52.69
11/6/2010 21:00	18007	1_60	2010	310	2100	1.166873	93.23396	40.75392	0.211	2.57	0.269	2.941	9.1	12	2.901227	0	44.64	49.08
11/6/2010 22:00	18008	1_60	2010	310	2200	1.781952	120.9332	15.50391	-0.011	0.728	0.048	1.122	8.13	11.31	3.177563	0	47.3	47.16
11/6/2010 23:00	18009	1_60	2010	310	2300	1.480044	110.6587	10.54995	-0.036	1.123	0.022	1.205	5.916	9.09	3.1701	0	55.4	43.13
11/7/2010 0:00	18010	1_60	2010	311	0	1.493141	137.1315	23.23568	0.076	1.898	0.374	3.32	6.006	9.23	3.222991	0	56.35	43.21
11/7/2010 1:00	18011	1_60	2010	311	100	1.356079	85.20327	26.95966	0.241	2.814	0.042	2.969	5.832	8.09	2.259581	0	57.28	43.07
11/7/2010 2:00	18012	1_60	2010	311	200	1.618114	188.3009	41.19193	0.068	1.052	0.877	3.046	4.42	6.275	1.855165	0	63.59	40.23
11/7/2010 3:00	18013	1_60	2010	311	300	1.134385	91.96662	38.28357	0.116	2.138	0.147	3.764	4.272	6.197	1.925382	0	62.38	40.42
11/7/2010 4:00	18014	1_60	2010	311	400	1.590521	112.6505	33.85373	0.103	1.314	0.21	1.648	3.193	5.289	2.095525	0	66.68	38.27
11/7/2010 5:00	18015	1_60	2010	311	500	2.03824	112.5111	14.91845	0.272	2.977	-0.033	2.532	2.245	4.982	2.736787	0	70.27	36.64
11/7/2010 6:00	18016	1_60	2010	311	600	1.718124	92.7876	56.50966	1.01	12.29	1.087	13.24	1.527	3.253	1.725601	0	72.94	35.11
11/7/2010 7:00	18017	1_60	2010	311	700	2.476936	87.14648	33.83745	3.056	11.86	4.89	13.13	1.969	3.653	1.68422	0	73.91	35.73
11/7/2010 8:00	18018	1_60	2010	311	800	2.382957	344.3081	49.35813	2.71	15.69	-1.319	16.18	4.774	5.636	0.861432	0	63.57	41.04
11/7/2010 9:00	18019	1_60	2010	311	900	1.593337	353.1675	59.12828	2.45	22.97	0.046	21.99	10.12	10.03	-0.08904623	0	41.97	51.49
11/7/2010 10:00	18020	1_60	2010	311	1000	4.032247	221.3386	25.25055	-0.5	36.25	19.94	39.43	14.36	13.75	-0.613195	0	27.4	58.54
11/7/2010 11:00	18021	1_60	2010	311	1100	4.52169	203.5867	20.85419	4.612	34.2	31.3	37.43	16.02	15.01	-1.010076	0	25.18	61.25
11/7/2010 12:00	18022	1_60	2010	311	1200	4.899997	204.1855	18.18803	4.178	35.44	34.35	38.58	17.26	16.05	-1.208021	0	23.3	63.27
11/7/2010 13:00	18023	1_60	2010	311	1300	5.695045	207.5974	21.7424	3.187	42.52	36.84	45.66	17.91	16.76	-1.144052	0	21.68	64.33
11/7/2010 14:00	18024	1_60	2010	311	1400	6.514801	204.1633	17.52663	2.094	44.84	42.5	48.96	17.87	16.82	-1.044857	0	21.26	64.05
11/7/2010 15:00	18025	1_60	2010	311	1500	6.113889	201.0748	19.71414	3.568	40.17	42.09	44.54	17.63	16.7	-0.9294445	0	21.31	63.65
11/7/2010 16:00	18026	1_60	2010	311	1600	6.400318	202.7867	15.14607	-1.049	37.86	39.95	41.73	16.96	16.38	-0.5782874	0	21.71	62.63
11/7/2010 17:00	18027	1_60	2010	311	1700	4.310601	193.9105	19.93553	3.302	30.6	29.83	34.12	15.45	15.53	0.07620172	0	24.23	60.09
11/7/2010 18:00	18028	1_60	2010	311	1800	4.080908	180.8527	13.21181	2.948	22.27	26.19	25.9	13.76	14.58	0.8177235	0	26.64	57.18
11/7/2010 19:00	18029	1_60	2010	311	1900	3.346503	142.3024	17.69056	2.955	15.14	15.27	20.08	11.07	12.4	1.332995	0	31.79	52.51
11/7/2010 20:00	18030	1_60	2010	311	2000	1.437721	86.79536	57.27051	1.744	14.85	1.486	12.67	8.89	10.7	1.810753	0	37.75	48.21
11/7/2010 21:00	18031	1_60	2010	311	2100	2.763176	88.38277	28.63754	4.905	18.79	5.216	20.4	9.16	10.23	1.078875	0	37.08	48.76
11/7/2010 22:00	18032	1_60	2010	311	2200	2.087135	83.85059	47.26272	5.952	20.71	5.435	22.24	9.24	11.11	1.869002	0	35.87	49
11/7/2010 23:00	18033	1_60	2010	311	2300	2.0429	280.6441	30.41884	0.333	7.526	-1.404	9.05	6.205	7.943	1.738089	0	46.45	43.67
11/8/2010 0:00	18034	1_60	2010	312	0	0.8880612	177.725	40.5518	0.145	2.474	0.22	1.711	7.03	8.6	1.566705	0	44.65	44.74
11/8/2010 1:00	18035	1_60	2010	312	100	1.810064	126.5844	24.7018	-0.114	5.766	0.755	6.495	5.831	8.45	2.616923	0	47.26	42.96
11/8/2010 2:00	18036	1_60	2010	312	200	1.542158	48.79609	40.00634	1.037	5.776	0.802	4.754	4.887	7.083	2.195579	0	52.73	41.12
11/8/2010 3:00	18037	1_60	2010	312	300	1.946221	236.6334	53.4118	0.335	2.904	1.211	5.388	5.893	7.529	1.635226	0	50.08	42.87
11/8/2010 4:00	18038	1_60	2010	312	400	1.477397	270.6277	52.60854	0.161	3.327	1.326	6.218	4.982	7.044	2.061411	0	53.08	41.32
11/8/2010 5:00	18039	1_60	2010	312	500	1.532896	218.8378	46.26083	0.77	7.918	2.95	9.66	4.582	6.961	2.378847	0	54.24	40.63
11/8/2010 6:00	18040	1_60	2010	312	600	1.282016	329.4637	77.15279	1.166	9.57	1.025	9.76	5.24	6.939	1.698388	0	52.23	41.5
11/8/2010 7:00	18041	1_60	2010	312	700	1.243104	152.0739	63.97161	-0.58	7.186	-0.035	7.815	5.09	7.068	1.977077	0	51.74	41.47
11/8/2010 8:00	18042	1_60	2010	312	800	1.94545	306.7607	27.18472	-0.376	9.53	-0.588	8.89	6.813	7.663	0.8504675	0	47	44.69
11/8/2010 9:00	18043	1_60	2010	312	900	1.462125	242.9978	57.34962	0.84	23.7	3.949	24.61	11.09	11.04	-0.0515173	0	33.69	52.77
11/8/2010 10:00	18044	1_60	2010	312	1000	5.865372	187.9322	26.27483	6.083	54.05	42.61	58.95	15.76	15.07	-0.684975	0	21.96	60.59
11/8/2010 11:00	18045	1_60	2010	312	1100	5.689528	203.4092	27.60596	4.242	49.11	37.14	53.31	15.87	15.16	-0.7133064	0	21.77	60.72
11/8/2010 12:00	18046	1_60	2010	312	1200	6.056512	229.7424	23.0834	3.135	50.8	33.44	54.48	15.48	15.19	-0.2825475	0	21.68	59.97
11/8/2010 13:00	18047	1_60	2010	312	1300	4.732628	206.6153	42.56981	4.475	53.84	28.25	58.66	15.76	15.48	-0.2714745	0	22.2	60.5
11/8/2010 14:00	18048	1_60	2010	312	1400	4.818981	203.6082	41.93716	7.736	58.07	36.2	60.93	15.65	15.39	-0.2594097	0	23.53	60.32
11/8/2010 15:00	18049	1_60	2010	312	1500	5.83322	177.0199	35.10096	10.53	59.1	42.44	65	15.05	14.97	-0.08658011	0	25.84	59.21
11/8/2010 16:00	18050	1_60	2010	312	1600	4.279632	191.6779	49.2027	0.971	55.69	18.25	60.35	14.52	14.5	-0.0159195	0	26.96	58.31
11/8/2010 17:00	18051	1_60	2010	312	1700	3.259494	175.8617	51.86719	0.399	45.76	14.04	51.44	14.91	14.89	-0.0213999	0	26.13	59.12
11/8/2010 18:00	18052	1_60	2010	312	1800	5.203315	191.9406	36.52361	0.446	56.07	28.79	62.67	14.49	14.79	0.2996256	0	27.34	58.26
11/8/2010 19:00	18053	1_60	2010	312	1900	5.753545	178.1773	29.36184	-1.428	63.2	31.03	68.47	14.21	14.38	0.1685989	0	30.98	57.74
11/8/2010 20:00	18054	1_60	2010	312	2000	4.822169	202.4275	30.21354	0.733	44.91	26.56	50.51	13.1	13.33	0.2274061	0	37.48	55.79
11/8/2010 21:00	18055	1_60	2010	312	2100	5.851516	262.9806	11.34663	4.295	27.95	22.28	31.36	9.99	10.35	0.3572622	0.01	62.13	50.38
11/8/2010 22:00	18056	1_60	2010	312	2200	5.057089	263.3239	11.14304	3.819	27.88	18.13	29.96	7.127	7.519	0.3917215	0.02	81.4	45.12
11/8/2010 23:00	18057	1_60	2010	312	2300	6.500703	255.8594	11.64694	5.303	33.87	28.12	37.73	5.174	5.574	0.400319	0.03	79.53	41.63

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/6/2010 0:00	17986	1_60	2010	310	0	24.76	0.045	IL	2.697	290	2350	13.44
11/6/2010 1:00	17987	1_60	2010	310	100	24.76	0.037	IL	1.741	211.1	52	13.45
11/6/2010 2:00	17988	1_60	2010	310	200	24.77	0.033	IL	2.458	105.5	122	13.48
11/6/2010 3:00	17989	1_60	2010	310	300	24.77	0.059	IL	2.219	116.3	209	13.51
11/6/2010 4:00	17990	1_60	2010	310	400	24.77	0.065	IL	1.673	110.8	329	13.53
11/6/2010 5:00	17991	1_60	2010	310	500	24.78	0.066	IL	1.365	129.1	421	13.54
11/6/2010 6:00	17992	1_60	2010	310	600	24.79	0.067	IL	2.321	142.9	502	13.56
11/6/2010 7:00	17993	1_60	2010	310	700	24.79	2.196	IL	1.843	109.5	646	13.57
11/6/2010 8:00	17994	1_60	2010	310	800	24.81	100.5	IL	1.877	249.3	733	13.56
11/6/2010 9:00	17995	1_60	2010	310	900	24.81	277.7	IL	1.98	267.2	858	13.47
11/6/2010 10:00	17996	1_60	2010	310	1000	24.8	436.4	IL	2.867	289	952	13.36
11/6/2010 11:00	17997	1_60	2010	310	1100	24.79	532.3	IL	2.526	231.1	1058	13.26
11/6/2010 12:00	17998	1_60	2010	310	1200	24.76	589	IL	3.311	293.7	1130	13.19
11/6/2010 13:00	17999	1_60	2010	310	1300	24.72	622.1	IL	2.731	310.9	1234	13.12
11/6/2010 14:00	18000	1_60	2010	310	1400	24.7	546.6	IL	3.379	234.2	1304	13.07
11/6/2010 15:00	18001	1_60	2010	310	1500	24.68	413.2	IL	3.072	306.8	1430	13.04
11/6/2010 16:00	18002	1_60	2010	310	1600	24.68	218	IL	7.748	201.7	1555	13.04
11/6/2010 17:00	18003	1_60	2010	310	1700	24.69	71.27	IL	8.98	203.5	1621	13.07
11/6/2010 18:00	18004	1_60	2010	310	1800	24.7	1.419	IL	3.755	222	1706	13.12
11/6/2010 19:00	18005	1_60	2010	310	1900	24.7	0.041	IL	3.618	110.8	1822	13.18
11/6/2010 20:00	18006	1_60	2010	310	2000	24.7	0.043	IL	3.209	109	1921	13.24
11/6/2010 21:00	18007	1_60	2010	310	2100	24.71	0.038	IL	2.97	105.9	2029	13.3
11/6/2010 22:00	18008	1_60	2010	310	2200	24.71	0.056	IL	3.209	105.6	2103	13.34
11/6/2010 23:00	18009	1_60	2010	310	2300	24.71	0.07	IL	2.662	88.1	2207	13.38
11/7/2010 0:00	18010	1_60	2010	311	0	24.71	0.067	IL	2.731	109.2	2311	13.41
11/7/2010 1:00	18011	1_60	2010	311	100	24.7	0.058	IL	2.628	68.06	33	13.43
11/7/2010 2:00	18012	1_60	2010	311	200	24.7	0.045	IL	3.14	148.8	156	13.45
11/7/2010 3:00	18013	1_60	2010	311	300	24.7	0.028	IL	3.209	311.9	253	13.46
11/7/2010 4:00	18014	1_60	2010	311	400	24.7	0.035	IL	3.652	109	351	13.48
11/7/2010 5:00	18015	1_60	2010	311	500	24.7	0.062	IL	3.686	114.8	400	13.51
11/7/2010 6:00	18016	1_60	2010	311	600	24.7	0.064	IL	3.891	25.52	522	13.53
11/7/2010 7:00	18017	1_60	2010	311	700	24.7	1.4	IL	4.608	350.3	607	13.54
11/7/2010 8:00	18018	1_60	2010	311	800	24.73	113.2	IL	6.724	334.4	718	13.52
11/7/2010 9:00	18019	1_60	2010	311	900	24.73	244.8	IL	4.71	233.8	858	13.42
11/7/2010 10:00	18020	1_60	2010	311	1000	24.73	429.4	IL	8.16	234	938	13.3
11/7/2010 11:00	18021	1_60	2010	311	1100	24.71	545.4	IL	9.01	245.3	1029	13.21
11/7/2010 12:00	18022	1_60	2010	311	1200	24.69	617.8	IL	10.48	224.7	1129	13.15
11/7/2010 13:00	18023	1_60	2010	311	1300	24.67	624.6	IL	12.32	211.3	1258	13.11
11/7/2010 14:00	18024	1_60	2010	311	1400	24.65	536.2	IL	11.84	222.3	1321	13.1
11/7/2010 15:00	18025	1_60	2010	311	1500	24.65	429.6	IL	10.44	202.3	1419	13.1
11/7/2010 16:00	18026	1_60	2010	311	1600	24.64	266.2	IL	11.16	192.2	1535	13.11
11/7/2010 17:00	18027	1_60	2010	311	1700	24.63	77.91	IL	9.8	185.2	1617	13.13
11/7/2010 18:00	18028	1_60	2010	311	1800	24.63	1.046	IL	7.953	164.4	1726	13.18
11/7/2010 19:00	18029	1_60	2010	311	1900	24.63	0.045	IL	6.997	161	1805	13.24
11/7/2010 20:00	18030	1_60	2010	311	2000	24.62	0.025	IL	3.891	113.7	1904	13.3
11/7/2010 21:00	18031	1_60	2010	311	2100	24.61	0.047	IL	5.427	105	2006	13.34
11/7/2010 22:00	18032	1_60	2010	311	2200	24.61	0.062	IL	5.905	95.1	2114	13.35
11/7/2010 23:00	18033	1_60	2010	311	2300	24.6	0.064	IL	5.359	329.5	2204	13.38
11/8/2010 0:00	18034	1_60	2010	312	0	24.59	0.072	IL	3.55	154.7	2359	13.41
11/8/2010 1:00	18035	1_60	2010	312	100	24.56	0.061	IL	3.823	132.3	15	13.43
11/8/2010 2:00	18036	1_60	2010	312	200	24.56	0.062	IL	3.857	104.2	102	13.44
11/8/2010 3:00	18037	1_60	2010	312	300	24.53	0.067	IL	4.642	36.45	238	13.44
11/8/2010 4:00	18038	1_60	2010	312	400	24.53	0.062	IL	4.676	216.5	302	13.44
11/8/2010 5:00	18039	1_60	2010	312	500	24.51	0.048	IL	3.652	160.8	433	13.46
11/8/2010 6:00	18040	1_60	2010	312	600	24.5	0.05	IL	3.413	166.3	554	13.46
11/8/2010 7:00	18041	1_60	2010	312	700	24.49	5.875	IL	3.994	200.5	602	13.47
11/8/2010 8:00	18042	1_60	2010	312	800	24.5	91.5	IL	4.028	305.8	720	13.45
11/8/2010 9:00	18043	1_60	2010	312	900	24.49	199.6	IL	8.94	229.9	853	13.38
11/8/2010 10:00	18044	1_60	2010	312	1000	24.48	472.4	IL	15.77	171.5	957	13.28
11/8/2010 11:00	18045	1_60	2010	312	1100	24.46	429.2	IL	13.99	224.7	1054	13.2
11/8/2010 12:00	18046	1_60	2010	312	1200	24.44	198.5	IL	14.64	208.6	1102	13.18
11/8/2010 13:00	18047	1_60	2010	312	1300	24.4	212.6	IL	12.05	257.7	1217	13.17
11/8/2010 14:00	18048	1_60	2010	312	1400	24.38	183.5	IL	12.36	237.1	1322	13.17
11/8/2010 15:00	18049	1_60	2010	312	1500	24.36	105.6	IL	16.96	207.6	1429	13.18
11/8/2010 16:00	18050	1_60	2010	312	1600	24.34	92.7	IL	14.54	203.8	1521	13.19
11/8/2010 17:00	18051	1_60	2010	312	1700	24.31	109	IL	11.4	169.5	1611	13.2
11/8/2010 18:00	18052	1_60	2010	312	1800	24.32	1.293	IL	13.99	160.6	1724	13.21
11/8/2010 19:00	18053	1_60	2010	312	1900	24.32	0.051	IL	16.32	184.5	1829	13.22
11/8/2010 20:00	18054	1_60	2010	312	2000	24.31	0.044	IL	14.61	178.1	1901	13.23
11/8/2010 21:00	18055	1_60	2010	312	2100	24.35	0.057	IL	10.04	269.7	2048	13.26
11/8/2010 22:00	18056	1_60	2010	312	2200	24.36	0.047	IL	11.26	254.4	2138	13.32
11/8/2010 23:00	18057	1_60	2010	312	2300	24.38	0.063	IL	13.48	247.5	2227	13.37

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/9/2010 0:00	18058	1_60	2010	313	0	1.961241	257.5877	39.36498	2.246	21.99	7.403	23.71	4.152	4.36	0.2078375	0.01	81.5	39.53
11/9/2010 1:00	18059	1_60	2010	313	100	2.468114	167.7284	27.06695	-1.343	23.5	7.546	25.98	4.081	4.46	0.3789525	0	81.1	39.57
11/9/2010 2:00	18060	1_60	2010	313	200	3.799435	119.2937	18.36291	6.175	19.03	12.48	21.92	3.759	4.05	0.2903048	0	84.1	38.99
11/9/2010 3:00	18061	1_60	2010	313	300	3.206468	91.90495	10.46438	4.819	9.87	3.331	9.2	3.609	3.985	0.3767206	0	83	38.72
11/9/2010 4:00	18062	1_60	2010	313	400	3.405412	115.1139	16.82638	5.757	10.04	8.26	10.45	3.173	3.562	0.3895051	0	84.9	37.96
11/9/2010 5:00	18063	1_60	2010	313	500	1.538871	81.103	21.81719	2.436	10.61	1.328	10.15	3.183	3.618	0.4350034	0	77.89	37.96
11/9/2010 6:00	18064	1_60	2010	313	600	2.515876	173.4827	34.52808	0.765	22.02	12.39	25.55	3.512	4.031	0.5181354	0	69.57	38.56
11/9/2010 7:00	18065	1_60	2010	313	700	4.127424	218.1279	19.79672	0.435	24.12	19.7	28.84	2.008	2.271	0.2624561	0.05	81.2	35.96
11/9/2010 8:00	18066	1_60	2010	313	800	1.992213	261.9419	51.57937	0.849	17.99	4.126	22.77	1.068	1.309	0.2408072	0	88.4	34.13
11/9/2010 9:00	18067	1_60	2010	313	900	3.555913	271.1279	20.63761	3.013	23.56	11.96	26.5	2.026	2.108	0.08225694	0	83.4	35.93
11/9/2010 10:00	18068	1_60	2010	313	1000	4.776922	245.1885	11.37188	4.536	28.32	26.36	30.5	3.373	3.125	-0.2477723	0	76.59	38.4
11/9/2010 11:00	18069	1_60	2010	313	1100	3.332059	257.3042	30.31686	1.262	26.94	7.146	31.56	4.357	3.917	-0.4401453	0	68.79	40.32
11/9/2010 12:00	18070	1_60	2010	313	1200	2.255323	131.0282	38.59297	2.461	9.04	2.311	10.92	2.597	2.448	-0.1488117	0.03	80.8	37.07
11/9/2010 13:00	18071	1_60	2010	313	1300	2.972209	129.9465	13.24167	6.659	17.83	10.17	18.17	2.919	2.563	-0.3561923	0	83.4	37.35
11/9/2010 14:00	18072	1_60	2010	313	1400	2.835985	125.7283	17.26316	6.713	24.73	12.07	27.51	4.622	3.996	-0.6253843	0	71.85	40.39
11/9/2010 15:00	18073	1_60	2010	313	1500	1.138512	15.11563	53.5683	1.107	18.07	-1.174	17.76	5.028	4.708	-0.3198531	0	57.94	41.95
11/9/2010 16:00	18074	1_60	2010	313	1600	2.604646	303.541	49.32434	8.84	30.35	9.39	32.65	5.984	5.647	-0.3367038	BA	46.51	43.44
11/9/2010 17:00	18075	1_60	2010	313	1700	4.403583	32.56877	10.60846	11.46	23.69	-6.701	24.65	4.65	4.568	-0.08200472	0	52.54	40.75
11/9/2010 18:00	18076	1_60	2010	313	1800	1.836796	151.3702	48.87886	1.655	10.64	4.743	12.64	3.082	3.628	0.546321	0	57.26	37.97
11/9/2010 19:00	18077	1_60	2010	313	1900	2.137369	142.1043	10.08937	-0.129	3.445	1.275	4.356	0.371	1.898	1.527215	0	74.41	33.22
11/9/2010 20:00	18078	1_60	2010	313	2000	2.115792	140.5552	12.20602	-0.436	5.528	1.524	6.767	-1.023	0.543	1.565714	0	80.6	30.69
11/9/2010 21:00	18079	1_60	2010	313	2100	2.617029	111.789	8.040865	0.341	2.784	0.51	2.271	-1.851	-0.575	1.276433	0	87.3	28.99
11/9/2010 22:00	18080	1_60	2010	313	2200	3.048858	115.6187	7.174875	1.479	6.668	3.33	7.383	-1.367	0.548	1.915413	0	81.2	29.91
11/9/2010 23:00	18081	1_60	2010	313	2300	2.387733	146.7157	37.07238	1.699	8.25	3.932	9.26	-2.042	-0.832	1.209936	0	84.5	28.73
11/10/2010 0:00	18082	1_60	2010	314	0	0.981644	352.66	35.20437	0.371	3.632	-0.664	3.606	-3.061	-2.221	0.8396132	0	90.6	26.89
11/10/2010 1:00	18083	1_60	2010	314	100	1.430049	124.1275	13.18018	-0.02	0.662	0.007	0.275	-3.51	-2.196	1.313224	0	89.5	26.08
11/10/2010 2:00	18084	1_60	2010	314	200	1.662226	128.3947	19.34328	0.065	2.409	0.45	2.985	-3.665	-1.93	1.734394	0	86.5	25.9
11/10/2010 3:00	18085	1_60	2010	314	300	1.114765	70.54343	40.0245	0.285	6.018	0.193	5.647	-3.273	-2.153	1.119936	0	83.9	26.53
11/10/2010 4:00	18086	1_60	2010	314	400	1.565828	79.45005	22.45833	0	0.26	0.01	0.186	-4.692	-3.275	1.417445	0	86.8	24.19
11/10/2010 5:00	18087	1_60	2010	314	500	1.953438	115.7165	11.2067	0.034	0.988	0.137	1.272	-5.558	-4.031	1.527236	0	88.1	22.35
11/10/2010 6:00	18088	1_60	2010	314	600	1.524875	101.954	19.36025	-0.079	2.285	0.001	1.989	-5.166	-3.653	1.512683	0	83.1	23.08
11/10/2010 7:00	18089	1_60	2010	314	700	1.884466	103.5966	8.970728	0.329	2.597	0.537	2.691	-5.843	-5.168	0.6750548	0	85.5	21.83
11/10/2010 8:00	18090	1_60	2010	314	800	1.430809	119.7772	11.23074	0.048	0.585	0.026	0.401	-5.255	-4.658	0.5968686	0	88	23
11/10/2010 9:00	18091	1_60	2010	314	900	0.5905624	295.9524	37.03155	1.441	10.85	1.23	9.13	-2.511	-2.717	-0.2060016	0	75.2	29.83
11/10/2010 10:00	18092	1_60	2010	314	1000	0.5871781	15.66601	57.47404	0.554	18.31	1.082	17.02	-0.81	-1.071	-0.2608268	0	63.47	33.1
11/10/2010 11:00	18093	1_60	2010	314	1100	0.97513	109.9825	39.75525	1.506	25.37	2.983	22.76	1.872	1.358	-0.5133951	0	51.68	37.82
11/10/2010 12:00	18094	1_60	2010	314	1200	2.534337	127.6204	35.76926	2.677	36.53	9.17	37.61	5.471	4.792	-0.6792439	0	38.46	42.62
11/10/2010 13:00	18095	1_60	2010	314	1300	3.013282	182.2112	27.78911	2.346	31.61	16.89	34.75	7.599	6.557	-1.04159	0	30.39	46.3
11/10/2010 14:00	18096	1_60	2010	314	1400	2.167543	217.3214	32.21387	0.719	23.92	7.614	24.75	7.119	6.576	-0.5435099	0	32.93	45.42
11/10/2010 15:00	18097	1_60	2010	314	1500	4.530192	175.7443	29.26457	1.287	28.89	26.37	37.45	5.891	5.74	-0.1509715	0	40.85	42.89
11/10/2010 16:00	18098	1_60	2010	314	1600	4.489483	263.6785	27.82946	4.051	34.59	21.04	39.18	1.614	1.495	-0.1187322	0	80	35.08
11/10/2010 17:00	18099	1_60	2010	314	1700	2.493829	336.6876	20.35547	3.368	13.82	-2.619	14.24	1.274	1.151	-0.1232449	0	83.5	34.49
11/10/2010 18:00	18100	1_60	2010	314	1800	1.473474	282.6173	23.95446	0.671	4.393	-0.53	4.027	0.381	0.559	0.1774807	0	88.4	32.97
11/10/2010 19:00	18101	1_60	2010	314	1900	1.069562	106.1009	9.42619	0.148	1.704	0.177	1.878	0.068	0.328	0.2605123	0	91.2	32.27
11/10/2010 20:00	18102	1_60	2010	314	2000	1.511447	92.31386	30.67593	0.553	4.242	0.455	3.569	-0.056	0.282	0.3380151	0	91.3	32.07
11/10/2010 21:00	18103	1_60	2010	314	2100	2.339896	301.0911	18.15829	1.761	8.09	-0.08	7.431	-0.589	-0.568	0.02080722	0	95.1	31.19
11/10/2010 22:00	18104	1_60	2010	314	2200	0.9790846	216.3427	23.32994	0.093	1.181	0.104	0.833	-0.829	-0.613	0.2166603	0	96.1	30.7
11/10/2010 23:00	18105	1_60	2010	314	2300	1.797137	98.87788	8.128652	0.159	1.096	0.107	0.776	-0.759	-0.471	0.2874963	0	95.8	30.83
11/11/2010 0:00	18106	1_60	2010	315	0	1.414028	146.2177	18.39707	0.028	2.194	0.159	1.469	-0.789	-0.18	0.6089156	0	95.1	30.75
11/11/2010 1:00	18107	1_60	2010	315	100	0.8808575	34.74478	35.17714	-0.015	0.302	-0.009	0.223	-0.527	0.007	0.5341241	0	93.8	31.25
11/11/2010 2:00	18108	1_60	2010	315	200	0.6635761	249.873	38.6891	-0.046	0.859	-0.011	0.308	-0.899	-0.37	0.5297712	0	94.7	30.63
11/11/2010 3:00	18109	1_60	2010	315	300	1.080313	326.9905	15.56114	-0.075	3.295	-0.342	3.193	-1.145	-0.589	0.5560973	0	95.6	30.09
11/11/2010 4:00	18110	1_60	2010	315	400	1.609067	308.8483	14.1844	-0.009	0.763	-0.012	0.358	-0.765	-0.508	0.2573348	0	94	30.83
11/11/2010 5:00	18111	1_60	2010	315	500	1.196106	290.2613	14.85491	-0.013	0.253	0.005	0.239	-0.906	-0.528	0.3778538	0	93.1	30.59
11/11/2010 6:00	18112	1_60	2010	315	600	1.29114	277.9862	29.31282	0.006	1.04	0.028	0.273	-0.985	-0.926	0.05950309	0.01	94.8	30.53
11/11/2010 7:00	18113	1_60	2010	315	700	1.056056	34.48284	25.48773	0	0.049	0.002	0.034	-1.164	-1.182	-0.01778544	0	97	30.18
11/11/2010 8:00	18114	1_60	2010	315	800	0.5336039	248.1852	11.6476	-0.001	0.046	0	0.028	-1.148	-1.23	-0.08191883	0	97.1	30.26
11/11/2010 9:00	18115	1_60	2010	315	900	0.6275392	93.40931	44.85263	1.62	7.708	2.727	9.75	-0.226	-0.48	-0.2535373	0	92.9	33.07
11/11/2010 10:00	18116	1_60	2010	315	1000	0.5256515	209.9198	62.58104	-2.756	22.57	-2.383	20.83	1.31	0.959	-0.3503608	0	77.62	36.56
11/11/2010 11:00	18117	1_60	2010	315	1100	1.196999	272.8129	40.08643	3.706	18.5	5.494	16.7	2.26	1.902	-0.3583064	0	74.05	37.05
11/11/2010 12:00	18118	1_60	2010	315	1200	1.051957	248.6596	54.04938	2.807	25.71	4.983	25.67	3.536	3.039	-0.4963402	0	64.15	39.77
11/11/2010 13:00	18119	1_60	2010	315	1300	1.736357	273.6942	39.7303	3.042	26.62	5.957	27.71	5.058	4.537	-0.5207151	0	53.44	42.39
11/11/2010 14:00	18120	1_60	2010	315	1400	3.869854	267.746	19.04976	3.221	30.14	12.85	32.49	5.491	4.856	-0.6351423	0	54.79	42.15
11/11/2010 15:00	18121	1_60	2010	315	1500	3.660097	309.2063	14.00916	3.903	24.19	0.458	26.7	5.268	4.853	-0.4155305	0	52.36	41.72
11/11/2010 16:00	18122	1_60	2010	315	1600	4.423122	333.0505	17.63938	8.38	25.01	-4.858	27.06	5.02	4.882	-0.1383117	0	47.47	41.36
11/11/2010 17:00	18123	1_60	2010	315	1700	5.78075	335.8487	12.13199	10.77	28.55	-7.82	31.31	4.414	4.392	-0.02218719	0	47.31	40.22
11/11/2010 18:00	18124	1_60	2010	315	1800	4.955008	321.1428	9.031988	7.676	24.63	-3.09	27.36	3.018	3.306	0.2879931	0	50.44	37.72
11/11/2010 19:00	18125	1_60	2010	315	1900	2.459637	299.8106	12.94276	1.393	12.51	1.017	13.78	1.766	2.49	0.7234579	0	55.37	35.55
11/11/2010 20:00	18126	1_60	2010	315	2000	2.829566	276.8637	8.053662	1.003	7.46	3.704	8.66	0.655	2.31	1.654553	0	57.82	33.7
11/11/2010 21:00	18127	1_60	2010	315	2100	2.176907	268.2018	20.14828	0.495	8.25	3.551	9.13	-0.237	1.08	1.316239	0	63.64	31.87
11/11/2010 22:00	18128	1_60	2010	315	2200	0.722002	284.6004	43.83033	-0.402	3.364	0.026	2.87	0.551	1.145	0.5936773	0	59	33.08
11/11/2010 23:00	18129	1_60	2010	315	2300	0.9173061	243.7676	28.67641	-0.037	4.902	0.422	4.163	0.083	1.122	1.038723	0	60.76	32.33

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/9/2010 0:00	18058	1_60	2010	313	0	24.38	0.057	IL	8.81	254.6	2301	13.42
11/9/2010 1:00	18059	1_60	2010	313	100	24.38	0.036	IL	7.339	252.5	15	13.44
11/9/2010 2:00	18060	1_60	2010	313	200	24.38	0.034	IL	6.281	120	121	13.46
11/9/2010 3:00	18061	1_60	2010	313	300	24.37	0.038	IL	5.905	81.7	222	13.46
11/9/2010 4:00	18062	1_60	2010	313	400	24.36	0.046	IL	6.212	94.4	345	13.47
11/9/2010 5:00	18063	1_60	2010	313	500	24.37	0.043	IL	5.154	88.5	404	13.48
11/9/2010 6:00	18064	1_60	2010	313	600	24.38	0.042	IL	8.57	220.5	539	13.48
11/9/2010 7:00	18065	1_60	2010	313	700	24.4	0.532	IL	8.87	249.1	631	13.49
11/9/2010 8:00	18066	1_60	2010	313	800	24.43	17.35	IL	4.983	261.6	738	13.52
11/9/2010 9:00	18067	1_60	2010	313	900	24.44	73.33	IL	7.714	243.1	846	13.53
11/9/2010 10:00	18068	1_60	2010	313	1000	24.45	278.6	IL	7.748	229.8	908	13.5
11/9/2010 11:00	18069	1_60	2010	313	1100	24.46	252.8	IL	7.134	254.2	1011	13.44
11/9/2010 12:00	18070	1_60	2010	313	1200	24.46	69.99	IL	4.71	39.24	1100	13.44
11/9/2010 13:00	18071	1_60	2010	313	1300	24.45	255.8	IL	4.915	89.4	1240	13.46
11/9/2010 14:00	18072	1_60	2010	313	1400	24.46	306.4	IL	5.427	134.8	1310	13.43
11/9/2010 15:00	18073	1_60	2010	313	1500	24.46	200.9	IL	2.901	28.71	1500	13.41
11/9/2010 16:00	18074	1_60	2010	313	1600	24.47	212.3	IL	6.383	215	1508	13.35
11/9/2010 17:00	18075	1_60	2010	313	1700	24.48	69.54	IL	7.817	41.47	1616	13.37
11/9/2010 18:00	18076	1_60	2010	313	1800	24.49	2.051	IL	3.652	1.491	1701	13.43
11/9/2010 19:00	18077	1_60	2010	313	1900	24.5	0.037	IL	3.038	152.8	1802	13.49
11/9/2010 20:00	18078	1_60	2010	313	2000	24.5	0.047	IL	3.482	162	1931	13.55
11/9/2010 21:00	18079	1_60	2010	313	2100	24.51	0.056	IL	3.618	100.2	2023	13.6
11/9/2010 22:00	18080	1_60	2010	313	2200	24.51	0.064	IL	4.403	121.9	2138	13.62
11/9/2010 23:00	18081	1_60	2010	313	2300	24.51	0.06	IL	5.188	121.8	2210	13.64
11/10/2010 0:00	18082	1_60	2010	314	0	24.51	0.052	IL	2.628	15.58	2309	13.66
11/10/2010 1:00	18083	1_60	2010	314	100	24.51	0.057	IL	2.389	129.6	37	13.68
11/10/2010 2:00	18084	1_60	2010	314	200	24.5	0.063	IL	2.833	129.6	159	13.7
11/10/2010 3:00	18085	1_60	2010	314	300	24.51	0.065	IL	3.447	142.5	210	13.71
11/10/2010 4:00	18086	1_60	2010	314	400	24.51	0.065	IL	2.526	64.43	325	13.72
11/10/2010 5:00	18087	1_60	2010	314	500	24.51	0.059	IL	3.14	78.11	426	13.74
11/10/2010 6:00	18088	1_60	2010	314	600	24.51	0.06	IL	3.277	81.6	547	13.75
11/10/2010 7:00	18089	1_60	2010	314	700	24.52	1.242	IL	3.106	83.9	603	13.75
11/10/2010 8:00	18090	1_60	2010	314	800	24.52	43.5	IL	2.321	97.9	718	13.74
11/10/2010 9:00	18091	1_60	2010	314	900	24.53	224.8	IL	2.082	273.5	856	13.69
11/10/2010 10:00	18092	1_60	2010	314	1000	24.52	371.7	IL	2.116	72.68	949	13.6
11/10/2010 11:00	18093	1_60	2010	314	1100	24.49	533	IL	2.799	116.4	1029	13.51
11/10/2010 12:00	18094	1_60	2010	314	1200	24.45	523.6	IL	7.851	143.6	1143	13.43
11/10/2010 13:00	18095	1_60	2010	314	1300	24.43	599.1	IL	6.793	175.4	1227	13.36
11/10/2010 14:00	18096	1_60	2010	314	1400	24.42	309.3	IL	5.598	221.1	1325	13.31
11/10/2010 15:00	18097	1_60	2010	314	1500	24.45	67.62	IL	13	209.1	1455	13.33
11/10/2010 16:00	18098	1_60	2010	314	1600	24.48	32.03	IL	11.61	239.2	1507	13.36
11/10/2010 17:00	18099	1_60	2010	314	1700	24.49	18.77	IL	5.632	0.117	1636	13.45
11/10/2010 18:00	18100	1_60	2010	314	1800	24.49	0.972	IL	2.97	11.58	1702	13.49
11/10/2010 19:00	18101	1_60	2010	314	1900	24.5	0.065	IL	2.389	100.9	1829	13.53
11/10/2010 20:00	18102	1_60	2010	314	2000	24.5	0.064	IL	3.618	308.9	1959	13.54
11/10/2010 21:00	18103	1_60	2010	314	2100	24.51	0.061	IL	4.233	310.6	2018	13.55
11/10/2010 22:00	18104	1_60	2010	314	2200	24.51	0.064	IL	2.56	298.3	2101	13.57
11/10/2010 23:00	18105	1_60	2010	314	2300	24.52	0.062	IL	2.697	76.04	2224	13.57
11/11/2010 0:00	18106	1_60	2010	315	0	24.53	0.064	IL	2.355	118.2	2300	13.58
11/11/2010 1:00	18107	1_60	2010	315	100	24.54	0.072	IL	1.673	27.29	41	13.57
11/11/2010 2:00	18108	1_60	2010	315	200	24.55	0.071	IL	1.707	233.3	103	13.57
11/11/2010 3:00	18109	1_60	2010	315	300	24.56	0.066	IL	1.877	348.7	223	13.59
11/11/2010 4:00	18110	1_60	2010	315	400	24.58	0.074	IL	2.56	316.2	333	13.58
11/11/2010 5:00	18111	1_60	2010	315	500	24.6	0.073	IL	2.048	312.4	407	13.58
11/11/2010 6:00	18112	1_60	2010	315	600	24.62	0.074	IL	2.253	254.8	509	13.57
11/11/2010 7:00	18113	1_60	2010	315	700	24.64	0.34	IL	1.673	67.53	622	13.57
11/11/2010 8:00	18114	1_60	2010	315	800	24.67	16.57	IL	1.195	285.5	716	13.57
11/11/2010 9:00	18115	1_60	2010	315	900	24.69	201.9	IL	2.492	163.3	854	13.55
11/11/2010 10:00	18116	1_60	2010	315	1000	24.71	335.5	IL	1.911	286.4	948	13.5
11/11/2010 11:00	18117	1_60	2010	315	1100	24.72	275.1	IL	3.004	253.4	1045	13.45
11/11/2010 12:00	18118	1_60	2010	315	1200	24.72	376.1	IL	3.482	268	1139	13.42
11/11/2010 13:00	18119	1_60	2010	315	1300	24.72	390.3	IL	3.959	286.8	1247	13.38
11/11/2010 14:00	18120	1_60	2010	315	1400	24.73	335.2	IL	7.987	245.7	1331	13.35
11/11/2010 15:00	18121	1_60	2010	315	1500	24.74	204.3	IL	7.373	338	1434	13.36
11/11/2010 16:00	18122	1_60	2010	315	1600	24.76	114.2	IL	8.26	326.5	1550	13.38
11/11/2010 17:00	18123	1_60	2010	315	1700	24.78	66.05	IL	10.65	343.2	1610	13.41
11/11/2010 18:00	18124	1_60	2010	315	1800	24.81	1.89	IL	8.91	345.9	1706	13.44
11/11/2010 19:00	18125	1_60	2010	315	1900	24.83	0.023	IL	4.915	277.4	1805	13.49
11/11/2010 20:00	18126	1_60	2010	315	2000	24.84	0.047	IL	4.71	285.7	1934	13.53
11/11/2010 21:00	18127	1_60	2010	315	2100	24.86	0.033	IL	4.779	282.7	2010	13.57
11/11/2010 22:00	18128	1_60	2010	315	2200	24.87	0.043	IL	2.185	284.5	2126	13.6
11/11/2010 23:00	18129	1_60	2010	315	2300	24.86	0.057	IL	1.946	240.3	2226	13.62

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/12/2010 0:00	18130	1_60	2010	316	0	0.7165672	185.9696	33.20182	-0.079	2.772	0.088	2.276	-2.822	-0.627	2.194939	0	74.43	27.76
11/12/2010 1:00	18131	1_60	2010	316	100	1.307697	139.738	28.18751	0.028	1.683	-0.044	1.167	-4.132	-1.098	3.033869	0	80.7	25.33
11/12/2010 2:00	18132	1_60	2010	316	200	2.12283	124.363	19.06184	0.289	4.86	0.449	5.044	-4.843	-2.691	2.151819	0	84.7	23.88
11/12/2010 3:00	18133	1_60	2010	316	300	2.033168	135.4251	13.98252	0.065	2.323	1.028	3.828	-5.067	-2.817	2.250024	0	84.8	23.45
11/12/2010 4:00	18134	1_60	2010	316	400	2.023409	131.9461	18.52246	-0.028	2.082	0.05	1.346	-5.79	-3.177	2.613296	0	86.1	22.11
11/12/2010 5:00	18135	1_60	2010	316	500	2.570242	111.1615	8.320136	0.103	3.678	0.747	3.24	-6.537	-4.901	1.635875	0	88.6	20.68
11/12/2010 6:00	18136	1_60	2010	316	600	3.142272	115.0106	6.555592	1.751	5.336	4.194	6.548	-6.232	-4.71	1.522213	0	88.3	21.21
11/12/2010 7:00	18137	1_60	2010	316	700	3.091079	114.8053	8.760801	3.832	10.26	6.756	11.9	-6.412	-5.602	0.8096896	0	88.2	20.77
11/12/2010 8:00	18138	1_60	2010	316	800	2.273379	122.0046	56.21258	1.716	8.99	7.573	11.8	-4.75	-4.494	0.2562132	0	82.4	24.53
11/12/2010 9:00	18139	1_60	2010	316	900	1.195489	313.3804	22.60463	1.766	12.01	1.067	11.15	-2.89	-3.205	-0.3150488	0	73.17	28.63
11/12/2010 10:00	18140	1_60	2010	316	1000	0.5970192	308.5322	50.48705	6.23	27.4	5.036	23.61	-0.379	-0.78	-0.4011034	0	55.69	34.35
11/12/2010 11:00	18141	1_60	2010	316	1100	0.9964632	248.1555	63.87284	3.299	27.36	3.866	26.13	1.805	1.197	-0.6079408	0	46.95	37.57
11/12/2010 12:00	18142	1_60	2010	316	1200	1.564696	308.065	48.63255	3.194	28.3	2.895	27.98	3.485	2.852	-0.6328021	0	36.97	40.03
11/12/2010 13:00	18143	1_60	2010	316	1300	1.621154	286.8634	49.63659	-0.872	33.88	0.051	33.48	4.612	3.92	-0.6927263	0	32.91	42.09
11/12/2010 14:00	18144	1_60	2010	316	1400	1.806472	289.0616	36.51693	4.496	34.01	6.244	32.75	5.828	5.189	-0.6381552	0	31.34	43.75
11/12/2010 15:00	18145	1_60	2010	316	1500	2.056868	276.8026	38.97356	5	26.02	7.511	27.38	6.77	6.133	-0.6371452	0	28.44	45.19
11/12/2010 16:00	18146	1_60	2010	316	1600	1.946506	291.1839	25.17292	1.204	21.67	1.169	22.64	6.975	6.49	-0.4850018	0	26.79	45.81
11/12/2010 17:00	18147	1_60	2010	316	1700	1.592027	221.522	11.41502	0.015	5.833	1.917	6.851	4.817	5.745	0.9287882	0	33.81	41.73
11/12/2010 18:00	18148	1_60	2010	316	1800	1.712065	270.6482	39.52256	0.103	11.94	0.245	11.12	2.41	4.017	1.606471	0	49.57	36.57
11/12/2010 19:00	18149	1_60	2010	316	1900	2.607638	276.6711	12.65847	0.439	5.534	2.282	6.411	0.99	3.081	2.090525	0	54.3	34.33
11/12/2010 20:00	18150	1_60	2010	316	2000	1.309008	244.792	21.53673	0.535	4.315	2.124	6.202	0.281	2.018	1.737324	0	57.01	33.09
11/12/2010 21:00	18151	1_60	2010	316	2100	2.533237	136.3273	6.594505	0.049	1.171	1.266	3.887	-2.628	1.194	3.821671	0	71.62	27.92
11/12/2010 22:00	18152	1_60	2010	316	2200	1.792509	149.8234	13.004	-0.153	2.702	1.308	4.745	-2.392	0.336	2.728126	0	70.31	28.31
11/12/2010 23:00	18153	1_60	2010	316	2300	1.972299	140.681	7.130171	0.221	2.256	1.409	4.257	-2.794	-0.586	2.208411	0	71.68	27.55
11/13/2010 0:00	18154	1_60	2010	317	0	1.637543	146.0284	12.60961	0.074	3.481	1.351	4.256	-2.781	-1.22	1.560849	0	71.69	27.56
11/13/2010 1:00	18155	1_60	2010	317	100	2.172715	102.0633	12.426	0.173	2.253	0.204	1.663	-5.386	-3.685	1.700567	0	84.4	22.87
11/13/2010 2:00	18156	1_60	2010	317	200	1.841799	132.8158	23.12867	1.159	5.86	1.776	5.915	-4.513	-2.551	1.962168	0	80.9	24.2
11/13/2010 3:00	18157	1_60	2010	317	300	1.714904	144.7542	18.89112	0.073	1.06	0.142	1.22	-5.818	-4.344	1.473971	0	85.6	21.94
11/13/2010 4:00	18158	1_60	2010	317	400	1.699386	313.2278	20.11419	-0.013	0.27	-0.025	0.374	-6.929	-5.482	1.446938	0	87.5	20.05
11/13/2010 5:00	18159	1_60	2010	317	500	0.9971156	134.9802	33.31101	0.004	0.469	-0.046	0.7	-6.97	-5.75	1.219885	0	88	19.98
11/13/2010 6:00	18160	1_60	2010	317	600	1.358054	101.2907	25.08956	0.054	0.84	-0.042	0.863	-7.171	-5.452	1.718882	0	87.7	19.44
11/13/2010 7:00	18161	1_60	2010	317	700	1.122875	109.6341	23.86477	0.016	0.248	0.047	0.73	-7.84	-6.348	1.492162	0	87.3	18.52
11/13/2010 8:00	18162	1_60	2010	317	800	0.9431594	193.5252	27.83307	0.189	1.71	0.057	0.681	-6.64	-6.33	0.3104835	0	84.6	21.4
11/13/2010 9:00	18163	1_60	2010	317	900	0.8354408	329.9208	28.98246	2.429	15.19	0.917	11.49	-3.761	-4.058	-0.2971947	0	72.54	27.67
11/13/2010 10:00	18164	1_60	2010	317	1000	1.119084	308.2828	34.71856	-2.304	24.7	-3.354	23.56	-0.987	-1.413	-0.4261476	0	59.27	32.56
11/13/2010 11:00	18165	1_60	2010	317	1100	1.214288	328.3464	40.36892	2.42	24.2	1.582	23.31	1.127	0.618	-0.508498	0	49.06	36.37
11/13/2010 12:00	18166	1_60	2010	317	1200	1.274962	307.174	39.49776	-0.554	31.09	-1.802	30.46	3.793	3.25	-0.5433822	0	41.56	40.91
11/13/2010 13:00	18167	1_60	2010	317	1300	1.812957	316.327	40.22225	-0.721	28.35	-5.097	27.62	5.29	4.688	-0.6025409	0	37.47	42.81
11/13/2010 14:00	18168	1_60	2010	317	1400	2.102097	287.9063	34.10204	5.439	36.57	3.093	34.08	6.521	5.74	-0.7808357	0	33.23	44.92
11/13/2010 15:00	18169	1_60	2010	317	1500	1.671873	320.2437	41.35773	0.037	24.64	-1.558	22.74	6.204	5.76	-0.4437762	0	35.12	44.21
11/13/2010 16:00	18170	1_60	2010	317	1600	1.4425	317.682	49.15944	1.29	21.64	0.292	20.56	6.401	5.977	-0.4232811	0	34.85	44.86
11/13/2010 17:00	18171	1_60	2010	317	1700	2.223462	258.0503	21.08746	0.386	5.993	2.869	6.288	3.706	4.445	0.7393703	0	46.1	39.5
11/13/2010 18:00	18172	1_60	2010	317	1800	1.970366	312.7357	38.78572	-1.291	15.78	-0.573	17.11	2.816	3.568	0.7523623	0	49.76	37.22
11/13/2010 19:00	18173	1_60	2010	317	1900	2.536463	233.4716	9.118585	0.288	8.7	6.795	12.16	2.404	3.44	1.035582	0	50.19	36.81
11/13/2010 20:00	18174	1_60	2010	317	2000	1.501432	145.5899	31.88024	0.555	5.648	1.239	6.217	0.532	2.145	1.612689	0	58.56	33.48
11/13/2010 21:00	18175	1_60	2010	317	2100	1.026271	204.3792	40.30122	-0.006	1.127	0.001	0.734	-0.587	1.92	2.506348	0	62.3	31.85
11/13/2010 22:00	18176	1_60	2010	317	2200	1.645647	138.5447	33.09015	-0.018	0.335	0.008	0.527	-2.905	0.55	3.454703	0	73.48	27.44
11/13/2010 23:00	18177	1_60	2010	317	2300	2.238119	135.0027	16.04199	0.174	2.921	2.387	5.648	-3.706	-0.719	2.986899	0	77.8	25.92
11/14/2010 0:00	18178	1_60	2010	318	0	2.469752	137.6805	11.36579	-0.032	3.114	3.465	7.334	-3.871	-1.534	2.336659	0	78.86	25.63
11/14/2010 1:00	18179	1_60	2010	318	100	2.113682	137.5535	10.06153	-0.034	1.683	0.942	3.421	-3.708	-0.761	2.947063	0	77.05	26.01
11/14/2010 2:00	18180	1_60	2010	318	200	2.675755	119.5684	29.9038	0.643	5.223	1.39	6.226	-4.836	-2.685	2.151763	0	82.4	23.79
11/14/2010 3:00	18181	1_60	2010	318	300	1.398113	247.3295	47.86194	0.248	3.969	0.799	4.916	-6.549	-5.177	1.371635	0	87.8	20.72
11/14/2010 4:00	18182	1_60	2010	318	400	1.261308	136.9588	28.25934	0.04	2.517	0.076	2.321	-6.579	-5.199	1.380249	0	88.7	20.62
11/14/2010 5:00	18183	1_60	2010	318	500	2.874499	109.3576	10.36318	1.079	5.053	2.642	6.27	-6.89	-5.557	1.333474	0	86.9	20.02
11/14/2010 6:00	18184	1_60	2010	318	600	2.23257	116.1982	30.0587	1.825	8.79	4.33	10.5	-6.993	-5.293	1.700164	0	86.4	19.81
11/14/2010 7:00	18185	1_60	2010	318	700	1.321243	163.2589	28.03251	-0.05	0.735	-0.199	2.071	-7.875	-6.308	1.567093	0	89.1	18.22
11/14/2010 8:00	18186	1_60	2010	318	800	0.8361516	92.84724	36.95435	0.002	3.198	0.249	3.196	-6.094	-5.449	0.645115	0	80.9	22.55
11/14/2010 9:00	18187	1_60	2010	318	900	1.143291	321.6429	26.82429	1.435	13.21	0.366	12.02	-3.153	-3.5	-0.3477695	0	70.42	28.28
11/14/2010 10:00	18188	1_60	2010	318	1000	0.6445209	354.078	40.8699	3.522	21.18	2.526	20.43	-0.504	-0.819	-0.3149894	0	55.52	33.62
11/14/2010 11:00	18189	1_60	2010	318	1100	1.277292	292.9225	36.79106	-0.338	23.84	-1.564	24.65	1.262	0.776	-0.4853343	0	51.34	36.11
11/14/2010 12:00	18190	1_60	2010	318	1200	0.8391364	315.7066	62.10927	-1.368	27.63	-2.581	26.21	3.255	2.788	-0.4669739	0	43.95	40.34
11/14/2010 13:00	18191	1_60	2010	318	1300	2.341593	327.4573	24.90052	7.501	27.81	2.141	28.17	5.822	5.077	-0.7449866	0	37.44	43.64
11/14/2010 14:00	18192	1_60	2010	318	1400	2.894098	316.3661	21.48289	4.489	28.23	-1.475	29.54	7.392	6.633	-0.7587963	0	32.4	45.94
11/14/2010 15:00	18193	1_60	2010	318	1500	4.12113	263.0408	15.46042	4.103	29.08	15	31.14	8.17	7.396	-0.7757745	0	32.35	47.12
11/14/2010 16:00	18194	1_60	2010	318	1600	4.693489	247.84	11.42593	4.359	26.98	24.09	27.95	7.696	7.161	-0.5358817	0	34.64	46.26
11/14/2010 17:00	18195	1_60	2010	318	1700	4.534489	243.8318	8.314491	1.522	20.1	18.78	20.25	5.691	5.832	0.1411183	0	40.5	42.75
11/14/2010 18:00	18196	1_60	2010	318	1800	3.25062	284.9095	46.85843	1.667	24.86	7.976	27.83	4.365	4.762	0.3969409	0	47.78	40.07
11/14/2010 19:00	18197	1_60	2010	318	1900	1.444375	252.3509	46.34449	-1.828	13.65	-0.725	13.15	3.426	4.028	0.6020474	0	52.01	38.46
11/14/2010 20:00	18198	1_60	2010	318	2000	1.709009	184.5018	12.56555	0.071	0.848	0.882	4.533	0.803	3.336	2.533149	0	61.02	34.11
11/14/2010 21:00	18199	1_60	2010	318	2100	1.763697	162.2238	37.96486	0.35	3.506	1.45	5.028	-1.19	1.96	3.15038	0	68.02	30.84
11/14/2010 22:00	18200	1_60	2010	318	2200	2.015313	135.9769	9.223745	-0.009	0.838	0.464	2.282	-2.581	0.288	2.869631	0	76.32	27.91
11/14/2010 23:00	18201	1_60	2010	318	2300	2.173835	116.6382	34.75123	0.293	2.733	1.253	4.337	-2.335	-0.122	2.213327	0	77.28	28.11

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/12/2010 0:00	18130	1_60	2010	316	0	24.86	0.059	IL	2.116	127.9	2358	13.64
11/12/2010 1:00	18131	1_60	2010	316	100	24.86	0.032	IL	2.458	66.06	39	13.67
11/12/2010 2:00	18132	1_60	2010	316	200	24.86	0.05	IL	4.028	116.4	137	13.71
11/12/2010 3:00	18133	1_60	2010	316	300	24.86	0.063	IL	3.857	136.8	215	13.73
11/12/2010 4:00	18134	1_60	2010	316	400	24.87	0.062	IL	3.174	95.6	332	13.74
11/12/2010 5:00	18135	1_60	2010	316	500	24.88	0.049	IL	4.13	121.3	449	13.76
11/12/2010 6:00	18136	1_60	2010	316	600	24.9	0.037	IL	4.676	120.3	514	13.77
11/12/2010 7:00	18137	1_60	2010	316	700	24.9	1.278	IL	5.427	121	645	13.78
11/12/2010 8:00	18138	1_60	2010	316	800	24.93	82.6	IL	5.154	139.7	703	13.75
11/12/2010 9:00	18139	1_60	2010	316	900	24.94	252.3	IL	2.731	340.3	824	13.68
11/12/2010 10:00	18140	1_60	2010	316	1000	24.93	413.6	IL	2.116	259.2	925	13.56
11/12/2010 11:00	18141	1_60	2010	316	1100	24.92	529.8	IL	2.901	281.3	1052	13.46
11/12/2010 12:00	18142	1_60	2010	316	1200	24.9	591	IL	4.437	285.2	1147	13.41
11/12/2010 13:00	18143	1_60	2010	316	1300	24.88	591.6	IL	3.994	255.9	1231	13.35
11/12/2010 14:00	18144	1_60	2010	316	1400	24.87	537.1	IL	4.881	297.5	1355	13.31
11/12/2010 15:00	18145	1_60	2010	316	1500	24.85	402.4	IL	6.485	267	1417	13.29
11/12/2010 16:00	18146	1_60	2010	316	1600	24.85	254.3	IL	4.506	325.5	1512	13.29
11/12/2010 17:00	18147	1_60	2010	316	1700	24.85	66.11	IL	2.97	256	1600	13.32
11/12/2010 18:00	18148	1_60	2010	316	1800	24.86	1.219	IL	3.174	231.7	1709	13.41
11/12/2010 19:00	18149	1_60	2010	316	1900	24.87	0.018	IL	4.028	278.3	1837	13.49
11/12/2010 20:00	18150	1_60	2010	316	2000	24.88	0.055	IL	3.413	263.9	1901	13.55
11/12/2010 21:00	18151	1_60	2010	316	2100	24.88	0.037	IL	3.413	145.3	2039	13.6
11/12/2010 22:00	18152	1_60	2010	316	2200	24.88	0.063	IL	2.833	170.3	2136	13.64
11/12/2010 23:00	18153	1_60	2010	316	2300	24.88	0.044	IL	2.867	138.9	2244	13.66
11/13/2010 0:00	18154	1_60	2010	317	0	24.89	0.044	IL	2.628	174.8	2317	13.68
11/13/2010 1:00	18155	1_60	2010	317	100	24.89	0.055	IL	3.379	98.6	23	13.7
11/13/2010 2:00	18156	1_60	2010	317	200	24.89	0.064	IL	4.779	108.4	150	13.72
11/13/2010 3:00	18157	1_60	2010	317	300	24.88	0.063	IL	3.277	107.9	223	13.73
11/13/2010 4:00	18158	1_60	2010	317	400	24.88	0.045	IL	2.697	313	325	13.75
11/13/2010 5:00	18159	1_60	2010	317	500	24.87	0.041	IL	1.707	108.2	417	13.78
11/13/2010 6:00	18160	1_60	2010	317	600	24.87	0.047	IL	2.867	85.6	537	13.79
11/13/2010 7:00	18161	1_60	2010	317	700	24.86	1.146	IL	2.526	98.3	617	13.79
11/13/2010 8:00	18162	1_60	2010	317	800	24.87	89	IL	1.638	148.3	700	13.79
11/13/2010 9:00	18163	1_60	2010	317	900	24.85	253.6	IL	2.458	16.72	813	13.71
11/13/2010 10:00	18164	1_60	2010	317	1000	24.84	409.3	IL	3.413	272.9	939	13.6
11/13/2010 11:00	18165	1_60	2010	317	1100	24.82	523.3	IL	4.335	317.9	1008	13.51
11/13/2010 12:00	18166	1_60	2010	317	1200	24.78	588.4	IL	3.618	302.1	1200	13.41
11/13/2010 13:00	18167	1_60	2010	317	1300	24.75	509.9	IL	4.062	291	1232	13.35
11/13/2010 14:00	18168	1_60	2010	317	1400	24.73	591.1	IL	4.915	218.7	1328	13.3
11/13/2010 15:00	18169	1_60	2010	317	1500	24.71	310.8	IL	4.881	306.6	1453	13.29
11/13/2010 16:00	18170	1_60	2010	317	1600	24.69	232.7	IL	3.243	262.9	1502	13.3
11/13/2010 17:00	18171	1_60	2010	317	1700	24.68	30.33	IL	4.028	259.3	1639	13.33
11/13/2010 18:00	18172	1_60	2010	317	1800	24.69	0.793	IL	5.325	304.9	1750	13.42
11/13/2010 19:00	18173	1_60	2010	317	1900	24.7	0.013	IL	4.847	240	1815	13.48
11/13/2010 20:00	18174	1_60	2010	317	2000	24.7	0.033	IL	3.174	205.3	1903	13.51
11/13/2010 21:00	18175	1_60	2010	317	2100	24.7	0.045	IL	1.877	239.9	2039	13.56
11/13/2010 22:00	18176	1_60	2010	317	2200	24.7	0.038	IL	2.56	103.1	2107	13.61
11/13/2010 23:00	18177	1_60	2010	317	2300	24.69	0.049	IL	3.789	117.6	2210	13.65
11/14/2010 0:00	18178	1_60	2010	318	0	24.69	0.034	IL	3.823	149.9	2327	13.68
11/14/2010 1:00	18179	1_60	2010	318	100	24.68	0.041	IL	3.174	130.1	5	13.7
11/14/2010 2:00	18180	1_60	2010	318	200	24.67	0.049	IL	4.949	108.8	126	13.71
11/14/2010 3:00	18181	1_60	2010	318	300	24.68	0.06	IL	2.765	243.7	215	13.73
11/14/2010 4:00	18182	1_60	2010	318	400	24.67	0.05	IL	2.594	96.7	357	13.76
11/14/2010 5:00	18183	1_60	2010	318	500	24.65	0.051	IL	4.847	109.9	459	13.77
11/14/2010 6:00	18184	1_60	2010	318	600	24.65	0.039	IL	4.915	116	500	13.78
11/14/2010 7:00	18185	1_60	2010	318	700	24.65	1.15	IL	2.662	112.2	650	13.79
11/14/2010 8:00	18186	1_60	2010	318	800	24.67	78.56	IL	1.911	103.2	700	13.78
11/14/2010 9:00	18187	1_60	2010	318	900	24.67	246.5	IL	2.458	40.99	849	13.7
11/14/2010 10:00	18188	1_60	2010	318	1000	24.66	358	IL	2.492	313.3	1000	13.6
11/14/2010 11:00	18189	1_60	2010	318	1100	24.64	449.8	IL	2.97	291.5	1017	13.51
11/14/2010 12:00	18190	1_60	2010	318	1200	24.59	496.2	IL	3.072	352.4	1158	13.43
11/14/2010 13:00	18191	1_60	2010	318	1300	24.56	552	IL	4.506	11.56	1202	13.36
11/14/2010 14:00	18192	1_60	2010	318	1400	24.54	484.4	IL	5.052	326.7	1312	13.31
11/14/2010 15:00	18193	1_60	2010	318	1500	24.53	373.1	IL	8.81	242.6	1443	13.28
11/14/2010 16:00	18194	1_60	2010	318	1600	24.52	230.5	IL	8.26	253.1	1515	13.29
11/14/2010 17:00	18195	1_60	2010	318	1700	24.51	60.85	IL	6.724	252	1617	13.32
11/14/2010 18:00	18196	1_60	2010	318	1800	24.52	1.046	IL	7.748	232	1701	13.39
11/14/2010 19:00	18197	1_60	2010	318	1900	24.51	0.041	IL	5.632	238.8	1800	13.44
11/14/2010 20:00	18198	1_60	2010	318	2000	24.51	0.025	IL	2.799	181.2	1920	13.49
11/14/2010 21:00	18199	1_60	2010	318	2100	24.5	0.057	IL	2.833	168.6	2020	13.55
11/14/2010 22:00	18200	1_60	2010	318	2200	24.5	0.035	IL	2.901	147.4	2112	13.6
11/14/2010 23:00	18201	1_60	2010	318	2300	24.49	0.061	IL	3.652	102.5	2234	13.63

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
11/15/2010 0:00	18202	1_60	2010	319	0	1.654717	86.7542	34.04918	1.755	10.33	1.852	9.81	-0.895	0.38	1.275363	0	74.58	30.62
11/15/2010 1:00	18203	1_60	2010	319	100	1.717293	188.2022	46.94628	-0.151	3.724	-0.264	3.62	-0.395	0.589	0.9846348	0	73.9	31.51
11/15/2010 2:00	18204	1_60	2010	319	200	1.177941	307.3968	35.87546	-0.167	3.724	0.487	4.624	-0.909	-0.494	0.4151257	0	77.79	30.63
11/15/2010 3:00	18205	1_60	2010	319	300	1.448135	151.1074	36.60802	0.157	1.458	-0.003	1.681	-0.999	-0.471	0.5275651	0	78.81	30.42
11/15/2010 4:00	18206	1_60	2010	319	400	2.852488	126.0969	11.00957	1.495	4.928	5.532	8.02	-2.039	-0.365	1.674006	0	81.8	28.78
11/15/2010 5:00	18207	1_60	2010	319	500	2.445232	118.2812	19.67172	0.974	5.218	1.807	6.383	-1.935	-0.43	1.504748	0	79.98	28.96
11/15/2010 6:00	18208	1_60	2010	319	600	2.32777	316.8841	23.55778	1.346	8.97	0.415	9.02	-2.569	-2.363	0.2051761	0	84.4	27.6
11/15/2010 7:00	18209	1_60	2010	319	700	1.029767	129.3707	57.51781	0	4.49	0.539	5.301	-2.235	-2.283	-0.04786792	0.03	90	28.2
11/15/2010 8:00	18210	1_60	2010	319	800	2.033796	135.2637	27.80403	-0.04	1.249	1.131	3.92	-2.149	-2.187	-0.03723295	0.08	96.5	28.27
11/15/2010 9:00	18211	1_60	2010	319	900	1.19313	346.9021	22.82413	0.059	1.12	0.134	2.094	-1.053	-1.178	-0.1253638	0.02	97.1	30.72
11/15/2010 10:00	18212	1_60	2010	319	1000	1.513582	290.4836	20.10012	0.19	3.208	0.68	4.822	-0.834	-1.004	-0.1696612	0.01	96.7	31.2
11/15/2010 11:00	18213	1_60	2010	319	1100	1.590184	299.0283	34.97729	0.499	2.315	0.726	5.923	-0.748	-0.902	-0.1532581	0.07	96.8	32.02
11/15/2010 12:00	18214	1_60	2010	319	1200	0.908657	212.4323	38.91928	0.962	7.734	1.554	8.7	0.54	0.229	-0.3114549	0.01	92.6	35.47
11/15/2010 13:00	18215	1_60	2010	319	1300	1.559488	155.2631	36.84388	5.254	18.79	8.31	19.52	3.176	2.602	-0.5735413	0	80.3	40.17
11/15/2010 14:00	18216	1_60	2010	319	1400	2.784533	282.6112	21.1465	3.4	20.65	5.533	21.42	4.943	4.604	-0.3391221	0	71.45	42.19
11/15/2010 15:00	18217	1_60	2010	319	1500	3.817768	312.9714	24.18876	7.219	31.96	1.824	35.02	6.69	6.439	-0.2508436	0	57.16	44.9
11/15/2010 16:00	18218	1_60	2010	319	1600	3.997369	302.551	25.26655	2.004	29.97	0.133	33.01	6.89	6.742	-0.1480439	0	50.43	45.22
11/15/2010 17:00	18219	1_60	2010	319	1700	4.817004	302.8215	12.84336	4.915	25.1	2.646	29.22	5.461	6.094	0.6332201	0	52.89	42.33
11/15/2010 18:00	18220	1_60	2010	319	1800	3.304425	317.452	26.25905	1.082	7.664	-0.976	8.03	3.18	4.818	1.638518	0	62.07	38.26
11/15/2010 19:00	18221	1_60	2010	319	1900	1.911825	127.3935	37.00016	0.073	1.924	1.614	4.786	0.415	3.779	3.363151	0	73.9	33.43
11/15/2010 20:00	18222	1_60	2010	319	2000	2.130507	132.761	16.20558	0.172	2.838	1.584	5.012	-1.075	1.497	2.572287	0	83.6	30.57
11/15/2010 21:00	18223	1_60	2010	319	2100	1.418571	123.9865	30.09608	0.113	2.488	0.057	2.282	-0.768	0.939	1.707015	0	83.3	31
11/15/2010 22:00	18224	1_60	2010	319	2200	3.043005	116.4999	6.074497	2.173	7.239	4.706	9.03	-1.292	0.013	1.304987	0	88.5	29.89
11/15/2010 23:00	18225	1_60	2010	319	2300	4.258627	128.8497	6.741272	6.166	15.59	15.28	16.04	-0.209	0.403	0.6114897	0	83.7	31.95
11/16/2010 0:00	18226	1_60	2010	320	0	2.543376	139.0414	14.37528	2.908	6.827	7.855	9.29	-1.996	-0.795	1.200774	0	86.5	28.87
11/16/2010 1:00	18227	1_60	2010	320	100	1.259518	122.8955	29.76516	0.549	4.618	1.173	4.732	-3.396	-1.811	1.584982	0	88.9	26.59
11/16/2010 2:00	18228	1_60	2010	320	200	2.613982	65.01096	20.75132	1.03	5.052	2.255	5.305	-3.27	-1.726	1.54457	0	89.3	26.54
11/16/2010 3:00	18229	1_60	2010	320	300	2.02003	23.93612	19.53045	0.303	4.42	0.148	4.482	-4.565	-3.012	1.552651	0	93.4	24.29
11/16/2010 4:00	18230	1_60	2010	320	400	2.528224	116.9564	22.54069	0.366	3.6	2.857	9.03	-4.696	-3.129	1.567016	0	93.9	23.91
11/16/2010 5:00	18231	1_60	2010	320	500	1.618287	155.7765	36.07754	1.023	6.325	2.327	6.127	-3.755	-3.133	0.6217064	0	93.3	25.43
11/16/2010 6:00	18232	1_60	2010	320	600	2.347058	104.615	21.01569	3.166	8.11	3.923	8.38	-2.134	-1.784	0.3495782	0	86.8	28.38
11/16/2010 7:00	18233	1_60	2010	320	700	1.647098	317.519	38.50456	0.871	4.329	0.303	3.046	-3.54	-3.184	0.355141	0	91.2	26.11
11/16/2010 8:00	18234	1_60	2010	320	800	1.798547	269.9443	24.52001	-0.02	1.999	0.107	2.382	-4.511	-4.163	0.34801	0	95.5	24.18
11/16/2010 9:00	18235	1_60	2010	320	900	0.8023906	121.4567	19.16363	0.443	3.125	0.289	2.315	-2.452	-2.553	-0.1011154	0	93.2	28.06
11/16/2010 10:00	18236	1_60	2010	320	1000	1.311054	89.99374	28.56226	4.125	11.63	2.524	9.94	-0.657	-0.911	-0.2541346	0	83.2	31.67
11/16/2010 11:00	18237	1_60	2010	320	1100	1.656856	305.1903	28.50643	-0.462	24.14	-0.942	23.83	1.458	0.953	-0.5048455	0	68.09	36.66
11/16/2010 12:00	18238	1_60	2010	320	1200	1.583981	341.3931	36.88271	3.937	25.27	-0.318	24.57	3.684	3.245	-0.439302	0	62.01	40.3
11/16/2010 13:00	18239	1_60	2010	320	1300	4.541624	263.2194	29.09131	-0.636	40.89	17.92	49.87	8.09	7.602	-0.4887339	0	49.51	47.16
11/16/2010 14:00	18240	1_60	2010	320	1400	4.657619	199.9792	25.52251	3.868	42.71	30.48	45.65	10.39	9.69	-0.705065	0	41.88	50.83
11/16/2010 15:00	18241	1_60	2010	320	1500	6.060154	208.7569	15.6117	2.682	39.74	40.2	43.73	11.28	10.71	-0.5685526	0	40	52.36
11/16/2010 16:00	18242	1_60	2010	320	1600	5.941291	253.7164	13.24455	3.584	29.5	25.89	32.5	11.03	11.2	0.1668817	0	38.7	52.07
11/16/2010 17:00	18243	1_60	2010	320	1700	7.495581	295.3895	9.719074	10.26	39.4	11.91	41.7	10.86	11.25	0.3927853	0	33.76	51.81
11/16/2010 18:00	18244	1_60	2010	320	1800	8.666254	312.4841	8.852395	13.19	44.2	-1.07	48.71	9.41	9.82	0.4014058	0	33.44	49.27
11/16/2010 19:00	18245	1_60	2010	320	1900	6.399727	303.4519	10.52552	8.23	34.93	1.668	38.97	7.335	7.914	0.5794618	0	38.99	45.6
11/16/2010 20:00	18246	1_60	2010	320	2000	5.120009	303.7617	12.84312	7.975	32.24	2.014	36	5.752	6.732	0.9808334	0	35.55	42.7
11/16/2010 21:00	18247	1_60	2010	320	2100	6.572987	327.5056	9.694389	13.58	33.97	-4.288	37.84	6.168	6.693	0.525466	0	29.77	43.44
11/16/2010 22:00	18248	1_60	2010	320	2200	3.592496	313.3544	13.36723	4.118	12.21	1.24	12.69	3.26	4.625	1.364524	0	39.74	38.47
11/16/2010 23:00	18249	1_60	2010	320	2300	3.353846	325.0438	18.8555	6.609	19.83	-0.207	21.05	3.144	4.162	1.017459	0	41.71	37.91
11/17/2010 0:00	18250	1_60	2010	321	0	4.129935	345.7942	11.82311	6.998	17.6	-4.386	18.9	2.943	3.936	0.9926159	0	42.46	37.74
11/17/2010 1:00	18251	1_60	2010	321	100	2.890565	343.4523	15.84731	2.776	14.01	-1.734	15.78	2.205	3.617	1.41173	0	45.36	36.32
11/17/2010 2:00	18252	1_60	2010	321	200	1.99065	134.0581	24.58731	-0.01	4.146	3.297	7.714	-1.159	1.85	3.009132	0	61.14	30.78
11/17/2010 3:00	18253	1_60	2010	321	300	2.234757	157.9115	21.79053	0.048	4.593	4.546	8.41	-1.022	1.803	2.824338	0	61.16	30.82
11/17/2010 4:00	18254	1_60	2010	321	400	1.668947	169.4275	40.72493	0.181	5.868	2.197	7.915	-1.809	1.183	2.99236	0	64.22	29.63
11/17/2010 5:00	18255	1_60	2010	321	500	2.705889	118.1778	18.97187	1.465	7.756	4.28	9.35	-3.107	-1.412	1.695601	0	73.66	26.94
11/17/2010 6:00	18256	1_60	2010	321	600	2.152983	122.3368	10.95529	0.134	2.268	0.887	3.689	-2.723	-0.775	1.948427	0	69.01	27.74
11/17/2010 7:00	18257	1_60	2010	321	700	2.533643	127.6446	11.38893	0.562	3.274	3.789	6.506	-3.43	-1.55	1.879716	0	75.23	26.11
11/17/2010 8:00	18258	1_60	2010	321	800	2.035196	118.0246	41.53676	0.972	5.792	1.942	5.78	-2.954	-2.14	0.813677	0	71.53	27.91
11/17/2010 9:00	18259	1_60	2010	321	900	0.9850854	8.561099	25.07235	1.698	9.31	0.174	8.97	0.609	0.316	-0.2925915	0	54.15	35.14
11/17/2010 10:00	18260	1_60	2010	321	1000	0.9349082	108.1675	38.03379	2.752	19.55	2.961	18.44	3.168	2.774	-0.3938113	0	43.33	40.27
11/17/2010 11:00	18261	1_60	2010	321	1100	1.089134	9.973401	51.62215	3.474	26.49	0.73	25.57	5.058	4.556	-0.5027206	0	35.52	43.58
11/17/2010 12:00	18262	1_60	2010	321	1200	1.892571	328.3271	33.25935	2.562	28.88	-2.226	29.08	6.388	5.776	-0.6121119	0	30.83	45.21
11/17/2010 13:00	18263	1_60	2010	321	1300	2.248272	327.6466	40.42464	1.637	26.83	-4.13	28.07	7.376	6.754	-0.6218127	0	30	46.5
11/17/2010 14:00	18264	1_60	2010	321	1400	1.513613	65.79319	42.21358	5.179	24.43	1.574	23.53	7.9	7.376	-0.5244257	0	26.24	47.4
11/17/2010 15:00	18265	1_60	2010	321	1500	1.738093	76.98757	46.95753	3.317	24.13	2.721	24.81	8.43	7.932	-0.4980577	0	24.85	48.21
11/17/2010 16:00	18266	1_60	2010	321	1600	1.944567	112.1967	23.99509	4.917	17.24	6.018	18.18	8.7	8.28	-0.4246312	0	25.33	48.33
11/17/2010 17:00	18267	1_60	2010	321	1700	1.609408	174.5044	17.70534	0.468	4.19	1.594	5.995	5.921	7.158	1.236911	0	34.08	43.54
11/17/2010 18:00	18268	1_60	2010	321	1800	2.25351	139.3998	16.034	-0.06	4.242	0.837	5.273	1.607	4.024	2.416062	0	51.35	35.4
11/17/2010 19:00	18269	1_60	2010	321	1900	2.563705	126.302	6.402821	0.004	0.388	0.001	0.153	-0.908	2.459	3.367228	0	64.95	30.94
11/17/2010 20:00	18270	1_60	2010	321	2000	2.530037	118.6327	25.38321	-0.191	4.115	0.333	2.979	-0.746	3.734	4.479999	0	64	30.97
11/17/2010 21:00	18271	1_60	2010	321	2100	0.9354798	192.9612	47.88627	-0.117	4.952	0.019	5.086	-0.842	1.438	2.279903	0	62.72	30.96
11/17/2010 22:00	18272	1_60	2010	321	2200	1.661659	151.3404	40.5427	0.03	1.127	2.296	6.19	-1.693	0.598	2.291019	0	67.61	29.51
11/17/2010 23:00	18273	1_60	2010	321	2300	1.074455	106.8184	22.44118	-0.007	1.09	-0.043	1.617	-2.038	-0.149	1.88953	0	68.95	28.92

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/15/2010 0:00	18202	1_60	2010	319	0	24.47	0.053	IL	3.652	172	2300	13.62
11/15/2010 1:00	18203	1_60	2010	319	100	24.46	0.055	IL	3.038	103.8	3	13.6
11/15/2010 2:00	18204	1_60	2010	319	200	24.45	0.063	IL	2.56	252.6	113	13.58
11/15/2010 3:00	18205	1_60	2010	319	300	24.45	0.063	IL	3.379	16.01	243	13.58
11/15/2010 4:00	18206	1_60	2010	319	400	24.43	0.044	IL	4.301	111.6	321	13.59
11/15/2010 5:00	18207	1_60	2010	319	500	24.43	0.065	IL	3.686	94.7	432	13.62
11/15/2010 6:00	18208	1_60	2010	319	600	24.45	0.065	IL	4.676	313.2	519	13.62
11/15/2010 7:00	18209	1_60	2010	319	700	24.46	0.126	IL	2.56	83.1	657	13.61
11/15/2010 8:00	18210	1_60	2010	319	800	24.47	5.542	IL	4.608	194.9	734	13.6
11/15/2010 9:00	18211	1_60	2010	319	900	24.49	37.63	IL	3.004	291.2	849	13.58
11/15/2010 10:00	18212	1_60	2010	319	1000	24.52	45.14	IL	3.721	294.7	947	13.56
11/15/2010 11:00	18213	1_60	2010	319	1100	24.53	62.23	IL	3.004	294	1001	13.55
11/15/2010 12:00	18214	1_60	2010	319	1200	24.52	243.5	IL	2.15	230.8	1116	13.51
11/15/2010 13:00	18215	1_60	2010	319	1300	24.52	576	IL	3.516	166.4	1209	13.45
11/15/2010 14:00	18216	1_60	2010	319	1400	24.52	474.3	IL	4.54	294.1	1336	13.39
11/15/2010 15:00	18217	1_60	2010	319	1500	24.52	407.3	IL	8.29	290	1448	13.35
11/15/2010 16:00	18218	1_60	2010	319	1600	24.54	245.9	IL	9.59	286.1	1559	13.33
11/15/2010 17:00	18219	1_60	2010	319	1700	24.56	30.12	IL	8.64	312.7	1630	13.36
11/15/2010 18:00	18220	1_60	2010	319	1800	24.58	0.903	IL	5.837	321.5	1718	13.42
11/15/2010 19:00	18221	1_60	2010	319	1900	24.58	0.024	IL	3.277	167.8	1858	13.49
11/15/2010 20:00	18222	1_60	2010	319	2000	24.61	0.051	IL	3.482	100.9	1954	13.55
11/15/2010 21:00	18223	1_60	2010	319	2100	24.62	0.044	IL	3.345	104.1	2001	13.58
11/15/2010 22:00	18224	1_60	2010	319	2200	24.63	0.058	IL	4.779	111.7	2140	13.6
11/15/2010 23:00	18225	1_60	2010	319	2300	24.62	0.057	IL	7.031	125.1	2228	13.6
11/16/2010 0:00	18226	1_60	2010	320	0	24.63	0.051	IL	4.369	137.7	2304	13.61
11/16/2010 1:00	18227	1_60	2010	320	100	24.6	0.062	IL	3.243	118.1	2	13.64
11/16/2010 2:00	18228	1_60	2010	320	200	24.61	0.043	IL	4.13	124.5	106	13.67
11/16/2010 3:00	18229	1_60	2010	320	300	24.6	0.033	IL	3.209	285.8	202	13.69
11/16/2010 4:00	18230	1_60	2010	320	400	24.59	0.052	IL	4.301	157.7	327	13.7
11/16/2010 5:00	18231	1_60	2010	320	500	24.57	0.045	IL	3.55	133.6	500	13.69
11/16/2010 6:00	18232	1_60	2010	320	600	24.56	0.039	IL	4.301	126	528	13.67
11/16/2010 7:00	18233	1_60	2010	320	700	24.55	0.529	IL	3.072	308.9	651	13.65
11/16/2010 8:00	18234	1_60	2010	320	800	24.54	31.34	IL	3.482	295.5	723	13.66
11/16/2010 9:00	18235	1_60	2010	320	900	24.54	97.8	IL	1.536	163.4	806	13.66
11/16/2010 10:00	18236	1_60	2010	320	1000	24.5	180.2	IL	2.56	78.1	922	13.61
11/16/2010 11:00	18237	1_60	2010	320	1100	24.47	523.6	IL	3.379	294.7	1029	13.52
11/16/2010 12:00	18238	1_60	2010	320	1200	24.42	538.5	IL	3.55	345.5	1145	13.43
11/16/2010 13:00	18239	1_60	2010	320	1300	24.38	551.1	IL	11.95	200.9	1242	13.36
11/16/2010 14:00	18240	1_60	2010	320	1400	24.35	498.1	IL	11.23	218.6	1302	13.3
11/16/2010 15:00	18241	1_60	2010	320	1500	24.33	379.1	IL	10.89	193.2	1445	13.26
11/16/2010 16:00	18242	1_60	2010	320	1600	24.35	98.9	IL	10.14	245.5	1510	13.26
11/16/2010 17:00	18243	1_60	2010	320	1700	24.37	23.9	IL	15.6	309.8	1657	13.27
11/16/2010 18:00	18244	1_60	2010	320	1800	24.42	0.492	IL	15.43	310.9	1731	13.29
11/16/2010 19:00	18245	1_60	2010	320	1900	24.44	0.036	IL	13.11	320.1	1811	13.33
11/16/2010 20:00	18246	1_60	2010	320	2000	24.48	0.043	IL	13.65	315.6	1949	13.39
11/16/2010 21:00	18247	1_60	2010	320	2100	24.52	0.056	IL	12.94	324.8	2013	13.42
11/16/2010 22:00	18248	1_60	2010	320	2200	24.56	0.049	IL	8.16	322	2100	13.44
11/16/2010 23:00	18249	1_60	2010	320	2300	24.6	0.013	IL	9.39	0.409	2223	13.5
11/17/2010 0:00	18250	1_60	2010	321	0	24.64	0.017	IL	8.26	332.7	2326	13.51
11/17/2010 1:00	18251	1_60	2010	321	100	24.65	0.04	IL	6.861	15.68	16	13.53
11/17/2010 2:00	18252	1_60	2010	321	200	24.67	0.043	IL	3.686	151.6	144	13.56
11/17/2010 3:00	18253	1_60	2010	321	300	24.68	0.041	IL	4.369	106.6	219	13.61
11/17/2010 4:00	18254	1_60	2010	321	400	24.7	0.055	IL	3.072	153.6	340	13.63
11/17/2010 5:00	18255	1_60	2010	321	500	24.71	0.055	IL	4.676	102	446	13.66
11/17/2010 6:00	18256	1_60	2010	321	600	24.73	0.041	IL	4.71	135.6	557	13.68
11/17/2010 7:00	18257	1_60	2010	321	700	24.73	0.72	IL	4.574	127.3	603	13.69
11/17/2010 8:00	18258	1_60	2010	321	800	24.77	68.23	IL	5.291	99.8	717	13.69
11/17/2010 9:00	18259	1_60	2010	321	900	24.8	239.8	IL	2.56	83.5	855	13.62
11/17/2010 10:00	18260	1_60	2010	321	1000	24.81	398.8	IL	2.492	69.36	911	13.52
11/17/2010 11:00	18261	1_60	2010	321	1100	24.8	514.4	IL	3.311	354.5	1051	13.42
11/17/2010 12:00	18262	1_60	2010	321	1200	24.81	576.8	IL	4.471	320.3	1158	13.35
11/17/2010 13:00	18263	1_60	2010	321	1300	24.81	556.7	IL	4.847	308.1	1204	13.3
11/17/2010 14:00	18264	1_60	2010	321	1400	24.8	446.3	IL	3.345	320.4	1301	13.27
11/17/2010 15:00	18265	1_60	2010	321	1500	24.8	365	IL	4.267	94.2	1435	13.26
11/17/2010 16:00	18266	1_60	2010	321	1600	24.8	236.3	IL	4.471	107.6	1514	13.27
11/17/2010 17:00	18267	1_60	2010	321	1700	24.81	56.25	IL	2.526	160.8	1657	13.29
11/17/2010 18:00	18268	1_60	2010	321	1800	24.82	1.071	IL	3.413	168.6	1715	13.39
11/17/2010 19:00	18269	1_60	2010	321	1900	24.83	0.019	IL	3.311	131.5	1850	13.49
11/17/2010 20:00	18270	1_60	2010	321	2000	24.84	0.048	IL	3.994	99.7	1932	13.56
11/17/2010 21:00	18271	1_60	2010	321	2100	24.85	0.044	IL	2.56	29.98	2008	13.59
11/17/2010 22:00	18272	1_60	2010	321	2200	24.87	0.039	IL	2.799	168.7	2136	13.61
11/17/2010 23:00	18273	1_60	2010	321	2300	24.87	0.061	IL	2.628	64.72	2243	13.63

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/18/2010 0:00	18274	1_60	2010	322	0	0.8251877	124.0738	18.06291	0.004	0.333	0.051	1.068	-2.786	-0.344	2.441943	0	73.79	27.25
11/18/2010 1:00	18275	1_60	2010	322	100	0.9995069	165.2194	22.15174	0.007	2.964	0.442	3.582	-2.725	-0.692	2.033023	0	69.51	27.82
11/18/2010 2:00	18276	1_60	2010	322	200	0.7146136	138.5407	24.26216	-0.002	0.247	-0.039	0.736	-4.019	-2.295	1.723462	0	77.08	25.1
11/18/2010 3:00	18277	1_60	2010	322	300	0.5290378	184.4438	53.36251	0	0.041	0.001	0.029	-5.46	-3.743	1.716899	0	83.6	22.62
11/18/2010 4:00	18278	1_60	2010	322	400	1.508554	127.3767	9.517498	-0.003	0.145	0	0.094	-5.203	-2.623	2.579875	0	79.1	23.38
11/18/2010 5:00	18279	1_60	2010	322	500	1.451957	122.3729	12.49796	-0.002	0.091	0	0.064	-5.466	-2.424	3.041361	0	79.61	22.88
11/18/2010 6:00	18280	1_60	2010	322	600	1.304544	118.746	38.9687	0.057	1.313	-0.038	0.593	-5.447	-3.244	2.202532	0	76.88	22.94
11/18/2010 7:00	18281	1_60	2010	322	700	0.9715143	146.5053	42.30833	-0.088	1.449	0.078	1.763	-6.187	-4.381	1.80623	0	79.98	21.45
11/18/2010 8:00	18282	1_60	2010	322	800	1.854975	330.2708	34.08836	0.274	2.234	0.036	2.965	-6.377	-5.511	0.8655649	0	81.3	21.77
11/18/2010 9:00	18283	1_60	2010	322	900	0.2715287	338.473	31.50954	-1.118	11.63	-1.367	11.35	-2.525	-2.76	-0.2348672	0	63.02	31.37
11/18/2010 10:00	18284	1_60	2010	322	1000	0.3873546	333.4744	48.76861	3.007	25.73	2.214	22.16	0.511	0.244	-0.267487	0	47.32	36.75
11/18/2010 11:00	18285	1_60	2010	322	1100	0.6302431	358.2894	57.73076	-1.552	30.66	-1.281	27.78	3.411	3.026	-0.3850626	0	40.07	41.31
11/18/2010 12:00	18286	1_60	2010	322	1200	0.9353346	316.7949	54.66555	3.434	23.56	1.765	22.86	6.167	5.693	-0.4741323	0	32.71	45.65
11/18/2010 13:00	18287	1_60	2010	322	1300	0.7779816	285.5089	58.08677	-0.169	30.52	-1.075	28.3	8.8	8.28	-0.5234577	0	25.64	50.68
11/18/2010 14:00	18288	1_60	2010	322	1400	0.9742492	14.6462	58.05747	-2.393	28.43	-3.906	26.15	11.26	10.87	-0.3903385	0	21.18	54.66
11/18/2010 15:00	18289	1_60	2010	322	1500	1.712608	47.96425	57.98591	4.806	23.41	3.156	26.65	13.62	13.18	-0.4363301	0	16.92	57.74
11/18/2010 16:00	18290	1_60	2010	322	1600	3.810578	207.8928	13.95358	1.914	26.67	21.91	29.14	13.64	13.5	-0.1402542	0	13.55	57.07
11/18/2010 17:00	18291	1_60	2010	322	1700	3.008275	194.9739	31.7749	0.143	22.59	15.9	26.87	11.9	12.52	0.6192016	0	13.52	53.93
11/18/2010 18:00	18292	1_60	2010	322	1800	1.543504	137.439	34.08041	-0.18	10.74	2.564	12.05	7.59	9.79	2.204535	0	21.9	46.41
11/18/2010 19:00	18293	1_60	2010	322	1900	1.649524	159.457	51.84754	-0.075	3.41	3.366	8.24	4.22	7.538	3.318268	0	30.72	40.44
11/18/2010 20:00	18294	1_60	2010	322	2000	1.057897	160.7225	20.38531	-0.014	0.47	0.019	0.402	3.136	6.506	3.370058	0	33.92	38.47
11/18/2010 21:00	18295	1_60	2010	322	2100	1.498319	146.8636	20.27672	-0.048	3.534	-0.271	4.414	3.394	6.168	2.773526	0	33.85	38.73
11/18/2010 22:00	18296	1_60	2010	322	2200	1.461789	118.2687	39.49357	-0.155	3.053	-0.065	2.166	0.049	3.652	3.603194	0	51.85	32.69
11/18/2010 23:00	18297	1_60	2010	322	2300	1.790479	127.0445	23.01597	-0.029	0.836	-0.072	1.317	-0.462	3.034	3.496199	0	54.73	32.01
11/19/2010 0:00	18298	1_60	2010	323	0	2.085434	123.6422	9.955033	-0.01	0.936	0.084	0.887	-1.045	2.724	3.768868	0	57.57	30.66
11/19/2010 1:00	18299	1_60	2010	323	100	0.9053881	185.1907	33.4866	-0.002	0.081	-0.006	0.208	-0.974	2.538	3.512017	0	54.66	30.79
11/19/2010 2:00	18300	1_60	2010	323	200	1.080885	256.5276	38.18735	-0.116	2.331	0.211	2.085	-0.871	0.542	1.413347	0	54.36	30.76
11/19/2010 3:00	18301	1_60	2010	323	300	1.232979	143.4181	16.38411	-0.005	0.166	0.011	0.363	-2.531	0.191	2.722201	0	61.35	28.05
11/19/2010 4:00	18302	1_60	2010	323	400	1.08595	100.8684	28.82296	-0.005	0.336	-0.007	0.315	-2.909	0.318	3.226826	0	63.2	27.29
11/19/2010 5:00	18303	1_60	2010	323	500	1.766539	110.3862	19.9921	0.171	2.379	0.18	2.913	-4.357	-1.632	2.72567	0	69.94	24.74
11/19/2010 6:00	18304	1_60	2010	323	600	1.19313	207.3247	61.34671	-0.121	1.812	-0.049	0.873	-4.883	-2.484	2.398847	0	72.41	23.71
11/19/2010 7:00	18305	1_60	2010	323	700	1.1293	58.2557	55.16026	0.07	1.157	-0.048	0.711	-4.663	-2.633	2.029918	0	73.66	23.8
11/19/2010 8:00	18306	1_60	2010	323	800	1.525205	110.94	26.90615	0.034	0.927	0.058	0.7	-4.14	-2.901	1.239123	0	70.65	25.55
11/19/2010 9:00	18307	1_60	2010	323	900	0.8629736	176.3129	37.02311	1.978	9.28	3.356	9.99	0.086	-0.115	-0.2009267	0	55.4	34.16
11/19/2010 10:00	18308	1_60	2010	323	1000	1.918029	293.9586	14.66342	0.215	16.33	0.676	15.23	1.793	1.319	-0.4732317	0	51.6	36.35
11/19/2010 11:00	18309	1_60	2010	323	1100	1.214347	314.0728	51.53167	1.103	23.41	0.19	22.34	4.342	3.864	-0.4784271	0	39.38	41.89
11/19/2010 12:00	18310	1_60	2010	323	1200	1.445028	331.6202	53.42589	0.672	17.52	-0.182	17.47	8.27	7.829	-0.4422773	0	31.38	48.17
11/19/2010 13:00	18311	1_60	2010	323	1300	2.321571	193.2477	59.63362	3.7	33.45	10.27	34.19	11.93	11.62	-0.3174638	0	21.99	53.89
11/19/2010 14:00	18312	1_60	2010	323	1400	3.243113	206.0377	32.61131	2.674	34.46	21.22	40.16	12.72	12.51	-0.205765	0	17.78	55.24
11/19/2010 15:00	18313	1_60	2010	323	1500	1.567655	221.1607	61.86299	-0.184	29.26	4.185	32.56	12.65	12.53	-0.1181362	0	17.45	55.33
11/19/2010 16:00	18314	1_60	2010	323	1600	1.392838	291.4384	54.91994	-1.454	14.76	0.522	17.05	12.39	12.52	0.1361298	0	17.68	54.88
11/19/2010 17:00	18315	1_60	2010	323	1700	2.018183	70.01723	50.95127	5.132	26.04	4.003	26.48	11.54	12.16	0.6235853	0	17.51	53.16
11/19/2010 18:00	18316	1_60	2010	323	1800	1.810913	132.8193	30.70748	1.73	10.49	4.072	11.48	8.08	9.64	1.553664	0	24.81	47.13
11/19/2010 19:00	18317	1_60	2010	323	1900	1.131062	301.7927	40.49958	-0.193	2.993	-0.21	2.39	7.756	9.25	1.489095	0	25.73	46.3
11/19/2010 20:00	18318	1_60	2010	323	2000	1.203146	138.0197	57.74258	-0.066	3.751	1.418	5.831	6.18	8.01	1.827653	0	31.33	43.31
11/19/2010 21:00	18319	1_60	2010	323	2100	0.8125933	208.7457	50.5848	-0.215	2.413	0.135	2.007	5.601	8.03	2.424305	0	35.11	42.3
11/19/2010 22:00	18320	1_60	2010	323	2200	1.371448	136.9032	19.16675	0.014	1.176	0.096	1.064	5.053	7.096	2.04296	0	37.85	41.49
11/19/2010 23:00	18321	1_60	2010	323	2300	1.617404	132.5707	32.76532	-0.067	3.86	-0.22	3.999	3.17	6.646	3.476092	0	47.57	38.47
11/20/2010 0:00	18322	1_60	2010	324	0	1.836625	138.8431	23.14037	0.137	5.638	0.473	5.722	2.3	4.76	2.45947	0	53.08	36.46
11/20/2010 1:00	18323	1_60	2010	324	100	1.112799	116.9818	62.92035	-0.013	8.14	-0.301	7.217	3.848	5.932	2.084319	0	43.92	39.32
11/20/2010 2:00	18324	1_60	2010	324	200	2.012695	303.4448	59.01008	3.032	13.87	4.457	15.49	3.806	5.521	1.715092	0	45.31	39.15
11/20/2010 3:00	18325	1_60	2010	324	300	2.653232	19.89702	47.3446	4.186	27.72	10.35	30.71	5.25	6.672	1.422009	0	42.47	41.29
11/20/2010 4:00	18326	1_60	2010	324	400	6.028754	196.311	34.92963	4.627	45.71	41.78	53.23	10.78	11.22	0.4397674	0	21.44	51.67
11/20/2010 5:00	18327	1_60	2010	324	500	5.6212	183.8776	30.22557	2.031	51.77	39.26	61.59	10.55	10.87	0.3284557	0	21.85	51.21
11/20/2010 6:00	18328	1_60	2010	324	600	7.014346	179.2522	10.0982	0.423	38.37	50.82	40.67	10.1	10.47	0.3695771	0	23.37	50.43
11/20/2010 7:00	18329	1_60	2010	324	700	4.798386	184.7029	37.82728	0.818	42.47	28.79	47.52	10.03	10.43	0.3949053	0	24.01	50.3
11/20/2010 8:00	18330	1_60	2010	324	800	7.202106	191.554	15.95238	3.079	47.73	51.58	51.73	10.66	10.85	0.1839464	0	23.4	51.47
11/20/2010 9:00	18331	1_60	2010	324	900	4.370212	175.775	21.96465	-0.504	37.12	24.49	41.75	11.17	11.32	0.1512141	0	21.26	52.39
11/20/2010 10:00	18332	1_60	2010	324	1000	5.234623	169.6715	20.35694	6.978	39.29	37.3	43.7	11.03	11.24	0.2081274	0	20.99	52.07
11/20/2010 11:00	18333	1_60	2010	324	1100	5.952884	192.4336	19.40052	2.786	41.64	41.9	45.72	11.93	11.86	-0.06866753	0	21.16	53.62
11/20/2010 12:00	18334	1_60	2010	324	1200	5.512427	210.0531	26.38822	6.575	43.88	39.72	50.23	12.86	12.64	-0.224763	0	19.57	55.34
11/20/2010 13:00	18335	1_60	2010	324	1300	5.695296	216.0898	24.37112	-0.145	47.68	31.29	52.49	13.33	13.09	-0.2439615	0	18.66	56.19
11/20/2010 14:00	18336	1_60	2010	324	1400	7.230749	222.3832	18.95126	0.271	53.17	41.02	61.19	13.41	13.22	-0.1862851	0	16.82	56.29
11/20/2010 15:00	18337	1_60	2010	324	1500	5.980109	206.8545	29.50846	-0.979	50.87	32.07	57.03	13.22	13.21	-0.01289847	0	17.37	55.97
11/20/2010 16:00	18338	1_60	2010	324	1600	5.611867	177.4603	30.58905	8.68	60.14	41.71	63.63	13.23	13.31	0.08663108	0	18.07	55.98
11/20/2010 17:00	18339	1_60	2010	324	1700	5.070491	179.7183	38.45901	1.843	57.16	27.96	63.17	13.18	13.44	0.2532623	0	17.3	55.94
11/20/2010 18:00	18340	1_60	2010	324	1800	3.329671	160.5103	48.84461	-1.829	45.4	11.6	50.05	12.87	13.23	0.352457	0	17.75	55.42
11/20/2010 19:00	18341	1_60	2010	324	1900	3.953822	205.1155	57.85041	-1.166	52.49	16.02	56.3	12.62	12.95	0.3294576	0	18.04	54.91
11/20/2010 20:00	18342	1_60	2010	324	2000	9.98513	209.1016	16.1653	3.819	64.76	67.46	73.3	12.36	12.61	0.255105	0	17.74	54.46
11/20/2010 21:00	18343	1_60	2010	324	2100	8.061693	200.8454	23.47398	-0.703	73.15	50.67	81.7	11.74	11.93	0.1936689	0	19.83	53.33
11/20/2010 22:00	18344	1_60	2010	324	2200	7.224551	216.6661	18.38331	5.588	54.06	49.27	57.83	10.67	10.9	0.2327789	0	25.89	51.44
11/20/2010 23:00	18345	1_60	2010	324	2300	8.407323	187.5992	17.25401	6.26	61.58	62.7	68.51	9.08	9.31	0.2265416	0	34.87	48.61

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/18/2010 0:00	18274	1_60	2010	322	0	24.87	0.061	IL	1.536	115.6	2300	13.65
11/18/2010 1:00	18275	1_60	2010	322	100	24.86	0.052	IL	2.219	60.98	50	13.67
11/18/2010 2:00	18276	1_60	2010	322	200	24.86	0.036	IL	2.014	108.7	110	13.69
11/18/2010 3:00	18277	1_60	2010	322	300	24.86	0.051	IL	1.263	103.8	258	13.71
11/18/2010 4:00	18278	1_60	2010	322	400	24.86	0.057	IL	2.014	126.5	333	13.73
11/18/2010 5:00	18279	1_60	2010	322	500	24.86	0.062	IL	2.185	124.9	440	13.75
11/18/2010 6:00	18280	1_60	2010	322	600	24.85	0.059	IL	2.97	94.7	558	13.75
11/18/2010 7:00	18281	1_60	2010	322	700	24.86	0.553	IL	2.423	97.3	600	13.76
11/18/2010 8:00	18282	1_60	2010	322	800	24.86	66.28	IL	3.072	251	704	13.76
11/18/2010 9:00	18283	1_60	2010	322	900	24.87	238.8	IL	1.058	332.1	808	13.69
11/18/2010 10:00	18284	1_60	2010	322	1000	24.85	398.2	IL	1.365	353.3	939	13.58
11/18/2010 11:00	18285	1_60	2010	322	1100	24.83	519.1	IL	2.116	6.667	1033	13.46
11/18/2010 12:00	18286	1_60	2010	322	1200	24.79	578.6	IL	2.833	322.8	1106	13.37
11/18/2010 13:00	18287	1_60	2010	322	1300	24.75	590.7	IL	2.628	253.9	1231	13.28
11/18/2010 14:00	18288	1_60	2010	322	1400	24.72	536.6	IL	2.56	324.2	1311	13.22
11/18/2010 15:00	18289	1_60	2010	322	1500	24.69	396.6	IL	7.953	231.7	1458	13.18
11/18/2010 16:00	18290	1_60	2010	322	1600	24.69	182.5	IL	8.64	216.6	1504	13.17
11/18/2010 17:00	18291	1_60	2010	322	1700	24.67	44.29	IL	8.26	150.5	1624	13.21
11/18/2010 18:00	18292	1_60	2010	322	1800	24.67	0.513	IL	4.13	164.4	1759	13.29
11/18/2010 19:00	18293	1_60	2010	322	1900	24.68	0.033	IL	3.584	160.6	1802	13.37
11/18/2010 20:00	18294	1_60	2010	322	2000	24.67	0.04	IL	3.004	103.1	1959	13.45
11/18/2010 21:00	18295	1_60	2010	322	2100	24.67	0.012	IL	2.697	105.8	2000	13.49
11/18/2010 22:00	18296	1_60	2010	322	2200	24.67	0.023	IL	3.004	96.9	2135	13.53
11/18/2010 23:00	18297	1_60	2010	322	2300	24.66	0.058	IL	3.755	91	2231	13.57
11/19/2010 0:00	18298	1_60	2010	323	0	24.65	0.039	IL	3.243	112.9	2333	13.6
11/19/2010 1:00	18299	1_60	2010	323	100	24.65	0.031	IL	1.741	107.8	0	13.62
11/19/2010 2:00	18300	1_60	2010	323	200	24.64	0.032	IL	2.458	260.1	129	13.63
11/19/2010 3:00	18301	1_60	2010	323	300	24.64	0.062	IL	2.253	110	234	13.65
11/19/2010 4:00	18302	1_60	2010	323	400	24.63	0.054	IL	2.867	94.1	346	13.67
11/19/2010 5:00	18303	1_60	2010	323	500	24.62	0.034	IL	3.721	91.7	456	13.69
11/19/2010 6:00	18304	1_60	2010	323	600	24.63	0.029	IL	2.56	83.2	501	13.71
11/19/2010 7:00	18305	1_60	2010	323	700	24.63	0.474	IL	2.458	20.16	610	13.73
11/19/2010 8:00	18306	1_60	2010	323	800	24.63	67.63	IL	2.97	96.1	721	13.73
11/19/2010 9:00	18307	1_60	2010	323	900	24.64	225	IL	1.911	293.2	855	13.66
11/19/2010 10:00	18308	1_60	2010	323	1000	24.63	348.2	IL	3.516	287.5	957	13.55
11/19/2010 11:00	18309	1_60	2010	323	1100	24.61	484.2	IL	3.277	292.7	1006	13.46
11/19/2010 12:00	18310	1_60	2010	323	1200	24.58	388.5	IL	3.959	354.5	1138	13.37
11/19/2010 13:00	18311	1_60	2010	323	1300	24.55	313.1	IL	7.646	163.7	1235	13.31
11/19/2010 14:00	18312	1_60	2010	323	1400	24.53	231.7	IL	9.22	194.9	1302	13.26
11/19/2010 15:00	18313	1_60	2010	323	1500	24.52	185.9	IL	5.086	257.7	1412	13.25
11/19/2010 16:00	18314	1_60	2010	323	1600	24.52	113.2	IL	3.174	193.3	1535	13.25
11/19/2010 17:00	18315	1_60	2010	323	1700	24.52	25.98	IL	5.564	91.9	1619	13.27
11/19/2010 18:00	18316	1_60	2010	323	1800	24.51	0.243	IL	3.994	121.9	1713	13.3
11/19/2010 19:00	18317	1_60	2010	323	1900	24.52	0.025	IL	2.355	279.7	1850	13.35
11/19/2010 20:00	18318	1_60	2010	323	2000	24.5	0.051	IL	3.652	150.2	1938	13.38
11/19/2010 21:00	18319	1_60	2010	323	2100	24.5	0.052	IL	2.15	251.3	2028	13.41
11/19/2010 22:00	18320	1_60	2010	323	2200	24.5	0.063	IL	2.97	163.7	2133	13.43
11/19/2010 23:00	18321	1_60	2010	323	2300	24.5	0.052	IL	3.345	111.6	2219	13.45
11/20/2010 0:00	18322	1_60	2010	324	0	24.48	0.021	IL	3.891	73.2	2318	13.48
11/20/2010 1:00	18323	1_60	2010	324	100	24.47	0.023	IL	2.731	76.13	42	13.49
11/20/2010 2:00	18324	1_60	2010	324	200	24.48	0.042	IL	5.7	76.09	126	13.48
11/20/2010 3:00	18325	1_60	2010	324	300	24.49	0.028	IL	9.52	164.3	249	13.48
11/20/2010 4:00	18326	1_60	2010	324	400	24.49	0.002	IL	13.52	206.4	323	13.42
11/20/2010 5:00	18327	1_60	2010	324	500	24.47	0.017	IL	15.67	159.2	455	13.36
11/20/2010 6:00	18328	1_60	2010	324	600	24.46	0.033	IL	13.72	172.2	502	13.33
11/20/2010 7:00	18329	1_60	2010	324	700	24.46	0.207	IL	13.11	183.8	655	13.33
11/20/2010 8:00	18330	1_60	2010	324	800	24.47	71.4	IL	13.99	198.3	728	13.32
11/20/2010 9:00	18331	1_60	2010	324	900	24.48	78.29	IL	11.61	178.4	809	13.3
11/20/2010 10:00	18332	1_60	2010	324	1000	24.46	68.01	IL	13.38	152.9	938	13.29
11/20/2010 11:00	18333	1_60	2010	324	1100	24.44	181.1	IL	12.46	184.5	1027	13.29
11/20/2010 12:00	18334	1_60	2010	324	1200	24.42	227.5	IL	13.89	197	1115	13.26
11/20/2010 13:00	18335	1_60	2010	324	1300	24.38	235.8	IL	12.29	152.7	1216	13.24
11/20/2010 14:00	18336	1_60	2010	324	1400	24.37	211.9	IL	15.74	218	1346	13.23
11/20/2010 15:00	18337	1_60	2010	324	1500	24.36	119.6	IL	14.13	229.1	1402	13.23
11/20/2010 16:00	18338	1_60	2010	324	1600	24.34	78.98	IL	18.02	182.1	1510	13.23
11/20/2010 17:00	18339	1_60	2010	324	1700	24.33	16	IL	13.31	252.4	1636	13.24
11/20/2010 18:00	18340	1_60	2010	324	1800	24.33	0.169	IL	12.39	103.9	1730	13.25
11/20/2010 19:00	18341	1_60	2010	324	1900	24.33	0.032	IL	12.32	221.8	1857	13.26
11/20/2010 20:00	18342	1_60	2010	324	2000	24.35	0.05	IL	17.95	174.6	1938	13.26
11/20/2010 21:00	18343	1_60	2010	324	2100	24.36	0.046	IL	20.17	210.3	2040	13.27
11/20/2010 22:00	18344	1_60	2010	324	2200	24.37	0.055	IL	15.33	228.4	2140	13.28
11/20/2010 23:00	18345	1_60	2010	324	2300	24.36	0.043	IL	16.55	192.8	2226	13.3

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/21/2010 0:00	18346	1_60	2010	325	0	6.079923	200.5363	29.68977	-4.766	68.54	30.29	74.13	8.65	8.84	0.1923897	0	38.44	47.78
11/21/2010 1:00	18347	1_60	2010	325	100	5.293297	221.9404	23.47245	0.402	46.27	28.49	51.55	8.81	9.07	0.2647152	0	35.36	48.07
11/21/2010 2:00	18348	1_60	2010	325	200	6.66968	202.2527	17.85774	2.386	49.14	46.27	54.45	8.3	8.6	0.2994092	0	40.98	47.21
11/21/2010 3:00	18349	1_60	2010	325	300	6.640843	206.4256	19.20803	-0.364	50.89	40.93	57.95	7.828	8.11	0.2826841	0	47.45	46.36
11/21/2010 4:00	18350	1_60	2010	325	400	6.168391	206.3084	20.44977	-3.029	48.3	33.94	54.86	7.715	7.939	0.2239924	0	53.48	46.1
11/21/2010 5:00	18351	1_60	2010	325	500	6.091821	193.6427	22.22789	1.306	47.04	38.5	54.41	7.284	7.473	0.1883768	0	57.7	45.33
11/21/2010 6:00	18352	1_60	2010	325	600	5.314204	172.6859	28.25287	8.46	49.84	38.04	54.6	6.946	7.088	0.1417996	0	61.24	44.65
11/21/2010 7:00	18353	1_60	2010	325	700	7.444489	201.9494	19.44401	2.882	59.87	49.48	67.56	6.838	6.952	0.1144609	0	59.34	44.46
11/21/2010 8:00	18354	1_60	2010	325	800	5.697457	216.3093	22.09155	1.039	37.77	35.74	42.8	6.361	6.442	0.08076768	0	62.4	43.61
11/21/2010 9:00	18355	1_60	2010	325	900	5.480657	209.8241	23.88441	5.306	46.45	38.55	50.81	6.567	6.51	-0.05737467	0	60.89	43.97
11/21/2010 10:00	18356	1_60	2010	325	1000	6.116955	201.6994	22.06474	-0.465	57.14	35.74	62.72	7.173	6.979	-0.1942915	0	56.53	45.13
11/21/2010 11:00	18357	1_60	2010	325	1100	6.381584	198.5699	21.75908	0.376	56.12	40.31	62.47	6.33	6.274	-0.05610854	0.01	67.67	43.67
11/21/2010 12:00	18358	1_60	2010	325	1200	7.561327	212.4663	20.11772	3.06	58.25	50.19	67.09	8.04	7.827	-0.2141382	0	56.02	46.66
11/21/2010 13:00	18359	1_60	2010	325	1300	6.544645	200.5222	28.75629	-0.143	67.91	40.39	77.74	9.52	8.98	-0.5362151	0	47.26	49.34
11/21/2010 14:00	18360	1_60	2010	325	1400	8.126497	204.284	25.44014	0.959	71.68	48.69	80.2	7.849	7.565	-0.2840483	0	59.93	46.36
11/21/2010 15:00	18361	1_60	2010	325	1500	7.081287	202.2831	29.76676	7.667	71.18	51.94	78.5	5.475	5.625	0.1507791	0.07	76.7	42.2
11/21/2010 16:00	18362	1_60	2010	325	1600	9.643437	208.344	24.26881	-1.867	83	56.41	94.4	7.888	8.12	0.2305053	0	58.19	46.5
11/21/2010 17:00	18363	1_60	2010	325	1700	6.397897	203.2042	31.85408	-0.797	64.27	34.94	72.65	7.452	7.695	0.2424302	0	57.69	45.73
11/21/2010 18:00	18364	1_60	2010	325	1800	9.387866	232.0493	20.00753	5.169	67.86	52.07	76.02	5.933	6.164	0.2310359	0.02	62.57	43.1
11/21/2010 19:00	18365	1_60	2010	325	1900	9.372543	277.9809	15.80491	19.81	55.6	37.92	63.7	0.617	0.829	0.2124516	0.1	91.4	32.69
11/21/2010 20:00	18366	1_60	2010	325	2000	6.634056	252.2786	18.96464	11.7	46.79	38.42	57.31	0.457	0.937	0.4804921	0	76.99	32.31
11/21/2010 21:00	18367	1_60	2010	325	2100	3.47516	234.835	29.70248	0.225	35.3	13.18	38.58	0.822	1.406	0.5833568	0	67.11	33.01
11/21/2010 22:00	18368	1_60	2010	325	2200	5.881208	255.4147	14.69643	5.161	35.74	25.83	41.31	0.507	1.204	0.6968759	0	66.51	32.76
11/21/2010 23:00	18369	1_60	2010	325	2300	5.871406	258.029	15.95758	5.681	31.09	23.39	35.81	-0.286	0.186	0.4724588	0	72.08	31.58
11/22/2010 0:00	18370	1_60	2010	326	0	3.87759	247.2035	15.96655	2.597	22.29	16.19	26.03	-1.404	-0.828	0.5764804	0	76.85	29.57
11/22/2010 1:00	18371	1_60	2010	326	100	1.773812	95.00865	40.4212	0.514	7.662	1.679	8.8	-2.528	-1.607	0.9213252	0	78.95	27.92
11/22/2010 2:00	18372	1_60	2010	326	200	1.274108	129.414	53.33025	0.502	20.32	0.544	20.69	-2.657	-1.699	0.9583726	0	78.39	27.36
11/22/2010 3:00	18373	1_60	2010	326	300	1.882791	282.3174	68.09348	4.009	34.7	7.552	35.82	-2.07	-1.455	0.6146737	0	74.59	28.44
11/22/2010 4:00	18374	1_60	2010	326	400	2.780686	82.10846	20.99495	2.551	10.73	1.76	11.46	-3.548	-2.502	1.045535	0	79.23	26.07
11/22/2010 5:00	18375	1_60	2010	326	500	3.111324	124.1187	8.132058	1.504	5.471	6.74	8.46	-4.367	-2.645	1.722076	0	83	24.58
11/22/2010 6:00	18376	1_60	2010	326	600	1.469007	122.0821	18.61545	0.323	8.52	1.164	8.88	-3.001	-1.976	1.025429	0	75.33	26.94
11/22/2010 7:00	18377	1_60	2010	326	700	1.322353	144.8772	38.6134	-0.181	12.77	4.37	15.48	-2.629	-2.041	0.5882065	0	75.36	27.5
11/22/2010 8:00	18378	1_60	2010	326	800	3.338968	196.2604	18.01143	4.634	22.66	23.87	25.38	-1.647	-1.182	0.4657858	0	70.36	29.34
11/22/2010 9:00	18379	1_60	2010	326	900	2.121888	267.122	29.22376	2.301	18.39	7.197	20.19	-1.621	-1.487	0.134143	0	74.51	29.68
11/22/2010 10:00	18380	1_60	2010	326	1000	6.167422	212.1805	14.17366	3.205	38.47	41.38	42.48	-0.392	-0.273	0.1191912	0	65.3	31.63
11/22/2010 11:00	18381	1_60	2010	326	1100	6.554489	210.8099	12.14112	5.497	38.05	46.3	40.81	0.473	0.475	0.002268124	0	59.16	33.3
11/22/2010 12:00	18382	1_60	2010	326	1200	6.017397	214.3802	13.86535	2.609	35.8	39.8	38.7	1.227	1.209	-0.01805827	0	52.44	34.71
11/22/2010 13:00	18383	1_60	2010	326	1300	5.121314	204.3029	18.71393	2.654	34.69	33.81	39.78	1.421	1.361	-0.06018623	0	52.9	35.03
11/22/2010 14:00	18384	1_60	2010	326	1400	4.137663	207.6673	13.20805	2.911	23.41	26.92	26.43	2.238	2.111	-0.1268649	0	48.49	36.53
11/22/2010 15:00	18385	1_60	2010	326	1500	5.129284	237.433	17.69369	3.158	27.32	27.32	31.01	2.584	2.641	0.05691805	0	43.66	37.01
11/22/2010 16:00	18386	1_60	2010	326	1600	4.387078	211.9081	15.83181	0.643	26.67	25.3	30.79	2.925	2.814	-0.1116325	0	44.86	37.88
11/22/2010 17:00	18387	1_60	2010	326	1700	5.570479	208.9809	14.7056	0.69	28.56	35.27	33.5	2.182	2.411	0.2295157	0	46.82	36.31
11/22/2010 18:00	18388	1_60	2010	326	1800	4.102554	182.9463	17.60546	3.392	24.18	27.14	29.33	1.526	2.014	0.4884009	0	47.34	35.1
11/22/2010 19:00	18389	1_60	2010	326	1900	3.164524	182.2439	19.84175	1.662	24.36	17.11	28.26	1.176	1.834	0.6586311	0	43.42	34.51
11/22/2010 20:00	18390	1_60	2010	326	2000	2.915578	171.4258	35.92308	1.146	28.27	13.57	30.62	0.825	1.45	0.6247712	0	41.6	33.87
11/22/2010 21:00	18391	1_60	2010	326	2100	2.221277	161.0009	46.04992	-1.477	28.65	5.711	32.02	0.195	0.822	0.6267151	0	42.35	32.8
11/22/2010 22:00	18392	1_60	2010	326	2200	1.238411	145.5522	50.49441	0.144	9.13	1.859	9.39	-1.354	-0.433	0.9210806	0	47.97	29.98
11/22/2010 23:00	18393	1_60	2010	326	2300	2.098622	80.57253	17.25908	0.827	7.627	-0.17	7.69	-4.677	-2.336	2.341075	0	67.14	24.07
11/23/2010 0:00	18394	1_60	2010	327	0	2.01932	100.5276	21.17682	1.73	7.996	2.015	9.33	-4.255	-2.272	1.983615	0	63.51	24.83
11/23/2010 1:00	18395	1_60	2010	327	100	1.541341	106.5441	44.4576	0.327	4.54	0.55	4.74	-5.342	-3.768	1.57326	0	69.63	22.9
11/23/2010 2:00	18396	1_60	2010	327	200	1.117833	132.1447	36.3527	-0.078	2.427	-0.045	2.284	-5.871	-3.808	2.062851	0	73.64	21.78
11/23/2010 3:00	18397	1_60	2010	327	300	1.963803	137.1388	18.88046	-0.011	2.931	1.367	5.831	-6.77	-4.278	2.491608	0	78.06	20.34
11/23/2010 4:00	18398	1_60	2010	327	400	1.901019	158.6785	43.73807	0.205	3.714	0.423	4.36	-7.056	-5.006	2.049931	0	78.46	19.77
11/23/2010 5:00	18399	1_60	2010	327	500	1.91541	114.6491	41.37547	0.122	2.741	3.713	9.16	-7.762	-5.529	2.232716	0	81.1	18.65
11/23/2010 6:00	18400	1_60	2010	327	600	1.795832	147.218	24.91333	-0.079	3.968	1.921	7.281	-7.28	-5.346	1.933712	0	80.3	19.28
11/23/2010 7:00	18401	1_60	2010	327	700	0.9450315	151.3197	46.5684	0.027	4.387	-0.328	4.787	-7.197	-5.452	1.744691	0	78.78	19.45
11/23/2010 8:00	18402	1_60	2010	327	800	1.574708	107.5255	40.74068	0.191	2.81	0.66	4.3	-6.861	-5.55	1.310856	0	78.59	20.51
11/23/2010 9:00	18403	1_60	2010	327	900	0.6490706	358.3639	35.05686	0.473	8.11	0.239	7.61	-3.094	-3.256	-0.1617869	0	63.01	29.18
11/23/2010 10:00	18404	1_60	2010	327	1000	1.047548	286.008	40.2142	-0.186	17.62	1.144	17.14	-0.798	-1.133	-0.3352622	0	52.93	32.91
11/23/2010 11:00	18405	1_60	2010	327	1100	1.798395	320.9217	63.48778	5.397	38.07	7.019	41.45	2.968	2.536	-0.4322218	0	40.61	38.82
11/23/2010 12:00	18406	1_60	2010	327	1200	2.364355	12.98122	85.80505	0.467	49.86	2.332	52.57	5.453	4.909	-0.5437996	0	29.61	43.16
11/23/2010 13:00	18407	1_60	2010	327	1300	6.109898	215.2348	44.53118	4.243	50.1	35.46	56.64	5.798	5.231	-0.5667793	0	30.18	42.8
11/23/2010 14:00	18408	1_60	2010	327	1400	6.904357	226.6788	21.28314	4.198	51.42	40.67	56.49	5.744	5.448	-0.2963274	0	29.48	42.56
11/23/2010 15:00	18409	1_60	2010	327	1500	6.696737	220.0224	16.54785	2.401	45.91	41.35	52.27	6.797	6.397	-0.400414	0	27.72	44.42
11/23/2010 16:00	18410	1_60	2010	327	1600	7.547375	220.7335	13.10962	5.746	48.1	51.58	52.52	5.796	5.77	-0.02550113	0	31.2	42.72
11/23/2010 17:00	18411	1_60	2010	327	1700	6.448199	208.1262	18.64363	1.061	51.3	39.41	56.52	5.436	5.721	0.285134	0	34.06	42.06
11/23/2010 18:00	18412	1_60	2010	327	1800	4.091184	186.3464	34.9658	1.165	49.35	22.43	51.88	5.133	5.515	0.3821422	0	36.56	41.54
11/23/2010 19:00	18413	1_60	2010	327	1900	3.178006	181.9373	61.99562	1.839	45.72	16.83	48.75	5.015	5.413	0.3983004	0	37.08	41.33
11/23/2010 20:00	18414	1_60	2010	327	2000	3.493079	221.0392	27.80276	-2.651	40.92	13.59	42.52	4.495	4.976	0.4815491	0	37.25	40.45
11/23/2010 21:00	18415	1_60	2010	327	2100	2.825383	247.4766	24.04654	-1.377	30.41	6.877	32.75	3.899	4.424	0.5252079	0	38.18	39.3
11/23/2010 22:00	18416	1_60	2010	327	2200	3.591215	213.3518	21.23055	2.429	32.68	22.2	38.31	3.84	4.317	0.4766519	0	38.56	39.21
11/23/2010 23:00	18417	1_60	2010	327	2300	5.39033	219.4829	21.10079	0.189	44.51	29.44	48.95	4.158	4.463	0.3048669	0	38.68	39.74

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/21/2010 0:00	18346	1_60	2010	325	0	24.36	0.022	IL	19.05	174.8	2323	13.33
11/21/2010 1:00	18347	1_60	2010	325	100	24.36	0.038	IL	13.65	194.8	59	13.35
11/21/2010 2:00	18348	1_60	2010	325	200	24.35	0.051	IL	12.25	191.9	134	13.35
11/21/2010 3:00	18349	1_60	2010	325	300	24.34	0.061	IL	15.84	230.5	251	13.37
11/21/2010 4:00	18350	1_60	2010	325	400	24.33	0.066	IL	13.99	194.8	351	13.37
11/21/2010 5:00	18351	1_60	2010	325	500	24.33	0.066	IL	14.47	160.9	423	13.38
11/21/2010 6:00	18352	1_60	2010	325	600	24.32	0.074	IL	13.38	170.8	546	13.38
11/21/2010 7:00	18353	1_60	2010	325	700	24.35	0.241	IL	16.83	170.6	600	13.39
11/21/2010 8:00	18354	1_60	2010	325	800	24.36	18.14	IL	11.95	207.5	727	13.39
11/21/2010 9:00	18355	1_60	2010	325	900	24.36	80.1	IL	12.97	171.7	843	13.39
11/21/2010 10:00	18356	1_60	2010	325	1000	24.35	173.2	IL	14.81	212.3	943	13.38
11/21/2010 11:00	18357	1_60	2010	325	1100	24.34	169.2	IL	17.78	159.4	1009	13.38
11/21/2010 12:00	18358	1_60	2010	325	1200	24.3	303.9	IL	14.98	213.7	1147	13.38
11/21/2010 13:00	18359	1_60	2010	325	1300	24.26	412	IL	18.84	208.4	1255	13.33
11/21/2010 14:00	18360	1_60	2010	325	1400	24.24	271.9	IL	19.93	229.4	1341	13.31
11/21/2010 15:00	18361	1_60	2010	325	1500	24.21	120.9	IL	17.51	179.2	1411	13.36
11/21/2010 16:00	18362	1_60	2010	325	1600	24.2	180.4	IL	22.94	213.1	1511	13.38
11/21/2010 17:00	18363	1_60	2010	325	1700	24.22	36.3	IL	17.24	206.8	1631	13.36
11/21/2010 18:00	18364	1_60	2010	325	1800	24.29	0.379	IL	18.67	242.8	1754	13.38
11/21/2010 19:00	18365	1_60	2010	325	1900	24.36	0.051	IL	20.75	278.8	1829	13.44
11/21/2010 20:00	18366	1_60	2010	325	2000	24.35	0.011	IL	15.16	242.7	1902	13.5
11/21/2010 21:00	18367	1_60	2010	325	2100	24.37	0.035	IL	8.23	241.9	2045	13.54
11/21/2010 22:00	18368	1_60	2010	325	2200	24.39	0.061	IL	11.57	261.7	2121	13.56
11/21/2010 23:00	18369	1_60	2010	325	2300	24.42	0.056	IL	12.15	265.2	2224	13.58
11/22/2010 0:00	18370	1_60	2010	326	0	24.44	0.047	IL	8.6	247.7	2304	13.6
11/22/2010 1:00	18371	1_60	2010	326	100	24.44	0.054	IL	3.686	220.5	1	13.63
11/22/2010 2:00	18372	1_60	2010	326	200	24.44	0.055	IL	4.881	331.6	141	13.66
11/22/2010 3:00	18373	1_60	2010	326	300	24.44	0.048	IL	7.031	217.7	252	13.68
11/22/2010 4:00	18374	1_60	2010	326	400	24.45	0.049	IL	5.564	95.8	354	13.69
11/22/2010 5:00	18375	1_60	2010	326	500	24.46	0.033	IL	4.642	110.3	406	13.7
11/22/2010 6:00	18376	1_60	2010	326	600	24.45	0.054	IL	3.004	133.8	500	13.7
11/22/2010 7:00	18377	1_60	2010	326	700	24.45	0.225	IL	3.994	182.3	623	13.69
11/22/2010 8:00	18378	1_60	2010	326	800	24.47	18.56	IL	6.724	209.4	746	13.67
11/22/2010 9:00	18379	1_60	2010	326	900	24.49	80.4	IL	5.837	202.4	803	13.65
11/22/2010 10:00	18380	1_60	2010	326	1000	24.5	152.2	IL	12.12	232.7	958	13.62
11/22/2010 11:00	18381	1_60	2010	326	1100	24.51	230.5	IL	10.89	218.2	1009	13.59
11/22/2010 12:00	18382	1_60	2010	326	1200	24.51	220.8	IL	13.21	219.9	1158	13.56
11/22/2010 13:00	18383	1_60	2010	326	1300	24.5	196	IL	10.44	223.5	1223	13.55
11/22/2010 14:00	18384	1_60	2010	326	1400	24.5	221.6	IL	7.407	212.1	1300	13.53
11/22/2010 15:00	18385	1_60	2010	326	1500	24.51	141.6	IL	9.25	260.5	1446	13.49
11/22/2010 16:00	18386	1_60	2010	326	1600	24.53	171.3	IL	9.11	198.9	1509	13.5
11/22/2010 17:00	18387	1_60	2010	326	1700	24.55	39.11	IL	9.76	197.7	1659	13.5
11/22/2010 18:00	18388	1_60	2010	326	1800	24.57	0.626	IL	9.42	193	1700	13.52
11/22/2010 19:00	18389	1_60	2010	326	1900	24.58	0.044	IL	7.066	148.7	1813	13.55
11/22/2010 20:00	18390	1_60	2010	326	2000	24.58	0.064	IL	6.656	257	1948	13.57
11/22/2010 21:00	18391	1_60	2010	326	2100	24.6	0.057	IL	6.519	146.5	2043	13.6
11/22/2010 22:00	18392	1_60	2010	326	2200	24.61	0.039	IL	4.028	124.9	2113	13.62
11/22/2010 23:00	18393	1_60	2010	326	2300	24.61	0.051	IL	3.55	67.82	2255	13.66
11/23/2010 0:00	18394	1_60	2010	327	0	24.6	0.031	IL	3.686	59.89	2304	13.7
11/23/2010 1:00	18395	1_60	2010	327	100	24.6	0.036	IL	3.55	74.81	2	13.73
11/23/2010 2:00	18396	1_60	2010	327	200	24.59	0.058	IL	2.867	140.3	158	13.75
11/23/2010 3:00	18397	1_60	2010	327	300	24.59	0.063	IL	3.959	111.4	234	13.77
11/23/2010 4:00	18398	1_60	2010	327	400	24.58	0.062	IL	4.335	81.6	314	13.79
11/23/2010 5:00	18399	1_60	2010	327	500	24.57	0.039	IL	4.779	174.9	451	13.8
11/23/2010 6:00	18400	1_60	2010	327	600	24.55	0.038	IL	4.233	36.14	516	13.81
11/23/2010 7:00	18401	1_60	2010	327	700	24.55	0.358	IL	3.004	53.98	611	13.81
11/23/2010 8:00	18402	1_60	2010	327	800	24.54	56.95	IL	3.721	163.3	732	13.8
11/23/2010 9:00	18403	1_60	2010	327	900	24.54	223	IL	2.082	108.9	803	13.73
11/23/2010 10:00	18404	1_60	2010	327	1000	24.52	379.1	IL	2.355	227.2	916	13.61
11/23/2010 11:00	18405	1_60	2010	327	1100	24.48	491.3	IL	5.086	80.6	1040	13.52
11/23/2010 12:00	18406	1_60	2010	327	1200	24.43	565.3	IL	10.44	167.1	1122	13.42
11/23/2010 13:00	18407	1_60	2010	327	1300	24.39	444.5	IL	16.69	241.4	1219	13.37
11/23/2010 14:00	18408	1_60	2010	327	1400	24.35	311.7	IL	13.72	203	1328	13.37
11/23/2010 15:00	18409	1_60	2010	327	1500	24.33	362.1	IL	12.87	209.7	1443	13.37
11/23/2010 16:00	18410	1_60	2010	327	1600	24.32	149.7	IL	13.99	209.2	1508	13.36
11/23/2010 17:00	18411	1_60	2010	327	1700	24.31	32.28	IL	14.34	220	1642	13.4
11/23/2010 18:00	18412	1_60	2010	327	1800	24.29	0.736	IL	10.68	207.2	1716	13.42
11/23/2010 19:00	18413	1_60	2010	327	1900	24.28	0.062	IL	13.69	158.7	1844	13.45
11/23/2010 20:00	18414	1_60	2010	327	2000	24.27	0.059	IL	10.48	134.6	1917	13.46
11/23/2010 21:00	18415	1_60	2010	327	2100	24.26	0.027	IL	7.339	255.8	2015	13.48
11/23/2010 22:00	18416	1_60	2010	327	2200	24.24	0.031	IL	11.09	222.4	2159	13.49
11/23/2010 23:00	18417	1_60	2010	327	2300	24.26	0.051	IL	11.95	214	2220	13.49

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/24/2010 0:00	18418	1_60	2010	328	0	5.151386	226.5783	17.78481	2.393	41.92	30.52	45.69	3.917	4.174	0.2565421	0	41.13	39.3
11/24/2010 1:00	18419	1_60	2010	328	100	6.63609	209.7904	17.23151	1.007	49.98	43.26	54.48	3.421	3.709	0.2883279	0	43.61	38.43
11/24/2010 2:00	18420	1_60	2010	328	200	8.453124	203.1529	15.36899	5.529	53.93	63.08	59.74	2.946	3.271	0.3242022	0	45.33	37.6
11/24/2010 3:00	18421	1_60	2010	328	300	6.171633	212.0697	18.30808	1.12	46.83	39.18	51.74	2.633	2.866	0.2330498	0	47.03	36.98
11/24/2010 4:00	18422	1_60	2010	328	400	7.62847	210.6569	15.22954	0.068	50.51	47.86	55.64	2.415	2.582	0.1670484	0	46.67	36.56
11/24/2010 5:00	18423	1_60	2010	328	500	7.432861	222.9009	16.84111	-1.471	49.63	40.23	55.82	2.008	2.112	0.1040297	0	49.17	35.83
11/24/2010 6:00	18424	1_60	2010	328	600	5.300288	273.3782	17.53193	4.746	29.07	16.3	34.02	-1.195	-1.131	0.06434799	0.01	88.4	29.94
11/24/2010 7:00	18425	1_60	2010	328	700	5.834803	256.0833	16.27625	7.428	34.6	30.19	37.94	-2.083	-1.925	0.1579804	0	84	28.24
11/24/2010 8:00	18426	1_60	2010	328	800	7.749723	244.1417	8.601086	5.04	40.09	43.41	40.46	-2.988	-2.911	0.07710993	0	74.37	26.86
11/24/2010 9:00	18427	1_60	2010	328	900	4.587795	245.504	22.27867	3.159	28.86	18.09	33.31	-3.401	-3.434	-0.03291465	0	74.52	26.06
11/24/2010 10:00	18428	1_60	2010	328	1000	2.049104	8.019308	29.13069	4.033	17.58	-0.926	17.67	-3.077	-3.211	-0.1347014	0	68.04	27.1
11/24/2010 11:00	18429	1_60	2010	328	1100	3.066956	4.456478	18.98483	8.4	21.94	-3.718	23.97	-3.179	-3.402	-0.2227245	0	57.22	26.91
11/24/2010 12:00	18430	1_60	2010	328	1200	3.61904	2.038135	28.04618	10.09	32.96	-1.035	36.76	-2.296	-2.801	-0.5049177	0	45.61	28.72
11/24/2010 13:00	18431	1_60	2010	328	1300	4.508808	250.6298	23.14808	6.583	35.26	23.27	38.66	-1.92	-2.399	-0.4785388	0	39.31	28.87
11/24/2010 14:00	18432	1_60	2010	328	1400	3.159432	261.423	42.55748	6.764	32.99	12.63	36.94	-1.245	-1.973	-0.7283237	0	36.87	30.32
11/24/2010 15:00	18433	1_60	2010	328	1500	3.159539	5.974522	27.65467	9.26	24.58	-1.226	25.94	-1.818	-2.228	-0.4107042	0	34.91	29.51
11/24/2010 16:00	18434	1_60	2010	328	1600	4.406741	15.45779	19.44007	11.35	29.27	-7.991	32.22	-2.669	-2.824	-0.1553857	0	28.99	27.52
11/24/2010 17:00	18435	1_60	2010	328	1700	2.623164	1.702283	39.94823	5.859	17.39	-3.731	18.8	-3.459	-3.326	0.1330981	0	29.03	26.28
11/24/2010 18:00	18436	1_60	2010	328	1800	1.157264	167.6559	47.57999	-1.203	11.66	0.859	12.45	-4.904	-4.238	0.6667003	0	32.95	23.64
11/24/2010 19:00	18437	1_60	2010	328	1900	1.395051	169.8078	29.07353	1.492	9.49	5.64	12.02	-7.22	-5.729	1.491634	0	43.04	19.64
11/24/2010 20:00	18438	1_60	2010	328	2000	2.118622	157.8536	37.65371	0.169	7.473	5.635	12.5	-8.52	-6.671	1.847372	0	46.74	17.23
11/24/2010 21:00	18439	1_60	2010	328	2100	1.697553	136.8428	13.19918	0.8	5.71	2.494	8.58	-9.87	-8.54	1.32782	0	55.21	14.72
11/24/2010 22:00	18440	1_60	2010	328	2200	1.944827	132.0733	16.24743	-0.027	4.136	1.562	7.047	-10.41	-8.88	1.532627	0	54.95	14.01
11/24/2010 23:00	18441	1_60	2010	328	2300	2.955055	120.2779	12.89162	2.072	6.789	5.276	9.22	-11.09	-9.71	1.379416	0	60.02	12.56
11/25/2010 0:00	18442	1_60	2010	329	0	3.149526	114.7757	10.50001	3.021	9.15	6.817	10.79	-12.07	-11.5	0.5724476	0	64.97	10.7
11/25/2010 1:00	18443	1_60	2010	329	100	3.772914	113.3608	7.410769	3.942	9.2	8.87	11.42	-12.26	-11.55	0.7049603	0	61.06	10.34
11/25/2010 2:00	18444	1_60	2010	329	200	2.526191	103.9532	12.3663	0.506	3.025	0.844	3.449	-14.41	-13.59	0.8206053	0	72.75	6.551
11/25/2010 3:00	18445	1_60	2010	329	300	1.419175	112.5213	48.99806	-0.3	4.901	0.004	5.046	-15.52	-14.68	0.8484825	0	79.43	4.437
11/25/2010 4:00	18446	1_60	2010	329	400	2.366203	135.9531	20.95688	1.744	6.206	7.691	9.76	-15.42	-14.17	1.245481	0	74.72	4.697
11/25/2010 5:00	18447	1_60	2010	329	500	2.721555	107.6105	11.80249	2.19	7.749	4.972	9.5	-15.41	-14.61	0.8050925	0	69.83	4.623
11/25/2010 6:00	18448	1_60	2010	329	600	1.958735	112.1308	29.26261	1.176	7.532	2.804	8.99	-15.7	-15.04	0.6643109	0	68.28	4.209
11/25/2010 7:00	18449	1_60	2010	329	700	1.001435	76.53177	41.14877	0.004	2.185	0.052	2.2	-16.93	-16.04	0.8892039	0	72.92	1.86
11/25/2010 8:00	18450	1_60	2010	329	800	2.480233	112.5963	8.514052	2.083	9.04	3.363	10.18	-16.35	-15.98	0.3635338	0	73.15	3.261
11/25/2010 9:00	18451	1_60	2010	329	900	2.43848	105.0104	20.9121	7.859	18.65	10.03	21.37	-11.96	-12.38	-0.422128	0	50.21	11.57
11/25/2010 10:00	18452	1_60	2010	329	1000	1.368832	91.92863	65.71295	-2.516	24.46	-2.816	26.22	-10.21	-10.56	-0.3558871	0	39.4	15.78
11/25/2010 11:00	18453	1_60	2010	329	1100	1.961635	301.3636	24.28327	4.724	29.18	3.747	28.71	-8.38	-8.98	-0.6020057	0	34.56	18.49
11/25/2010 12:00	18454	1_60	2010	329	1200	1.872802	292.8806	30.04708	0.771	31.88	-1.017	32.81	-6.58	-7.181	-0.6004302	0	31.52	21.7
11/25/2010 13:00	18455	1_60	2010	329	1300	1.531499	285.069	38.7887	1.475	30.44	0.977	30.22	-4.742	-5.386	-0.6446912	0	22.9	25.39
11/25/2010 14:00	18456	1_60	2010	329	1400	1.272033	292.2646	52.79675	3.61	30.59	3.653	28.94	-3.13	-3.654	-0.5248604	0	17.75	28.21
11/25/2010 15:00	18457	1_60	2010	329	1500	1.989626	296.4461	30.15487	1.333	26.16	1.494	26.13	-2.002	-2.515	-0.5127046	0	17.83	29.64
11/25/2010 16:00	18458	1_60	2010	329	1600	3.865107	311.052	11.50689	7.243	22.72	3.241	23.99	-1.545	-2.057	-0.5122743	0	21.16	29.83
11/25/2010 17:00	18459	1_60	2010	329	1700	1.724765	272.0739	10.31555	0.468	7.533	0.785	7.672	-3.529	-3.02	0.5084965	0	25.82	26.39
11/25/2010 18:00	18460	1_60	2010	329	1800	2.152496	252.8156	17.03385	-1.741	12.96	2.511	12.94	-5.211	-4.309	0.9025725	0	30.42	23.1
11/25/2010 19:00	18461	1_60	2010	329	1900	1.201478	153.2428	23.65426	-0.161	2.585	-0.006	1.72	-7.889	-5.246	2.642336	0	42.07	18.44
11/25/2010 20:00	18462	1_60	2010	329	2000	0.978911	217.2388	25.71791	-0.115	2.126	-0.042	1.724	-9.76	-6.624	3.133393	0	54.82	15.14
11/25/2010 21:00	18463	1_60	2010	329	2100	1.797965	116.5224	17.19719	0.126	1.591	0.226	1.849	-11.02	-9.13	1.887715	0	63.1	12.51
11/25/2010 22:00	18464	1_60	2010	329	2200	1.791547	100.5085	8.311678	0.02	0.741	0.031	0.682	-11.12	-9.49	1.624228	0	63.88	12.5
11/25/2010 23:00	18465	1_60	2010	329	2300	1.55075	136.303	29.29194	0.126	2.457	0.253	2.946	-11.43	-9.37	2.058486	0	65.07	12.01
11/26/2010 0:00	18466	1_60	2010	330	0	2.600018	117.1483	14.0797	0.308	5.223	0.664	5.905	-11.79	-10.68	1.11748	0	68.34	11.25
11/26/2010 1:00	18467	1_60	2010	330	100	1.795631	127.5225	16.25702	0.225	2.551	0.406	2.507	-12.12	-10.85	1.268381	0	69.02	10.59
11/26/2010 2:00	18468	1_60	2010	330	200	2.219827	94.66678	14.61371	0.215	4.268	-0.063	4.415	-12.14	-11.28	0.8612877	0	68.98	10.56
11/26/2010 3:00	18469	1_60	2010	330	300	2.029279	119.582	21.30487	0.195	2.297	0.718	3.564	-13.25	-11.9	1.347472	0	74.66	8.63
11/26/2010 4:00	18470	1_60	2010	330	400	1.524757	139.6759	30.19895	0.078	1.567	0.246	2.072	-13.4	-12.03	1.371942	0	75.09	8.29
11/26/2010 5:00	18471	1_60	2010	330	500	1.150121	158.0055	30.98696	-0.008	0.285	-0.002	0.135	-14.11	-13.03	1.078875	0	78.37	7.15
11/26/2010 6:00	18472	1_60	2010	330	600	1.323631	129.9517	31.40933	0.125	1.69	0.19	1.869	-13.65	-12.49	1.161043	0	75.8	7.84
11/26/2010 7:00	18473	1_60	2010	330	700	1.078528	151.7473	30.84141	0	0.015	0.007	0.133	-14.36	-12.92	1.442357	0	77.7	6.854
11/26/2010 8:00	18474	1_60	2010	330	800	1.242612	124.7698	21.28194	0.099	1.624	0.225	1.856	-13.73	-12.39	1.343966	0	75.72	8.36
11/26/2010 9:00	18475	1_60	2010	330	900	0.8617548	300.6223	24.71848	2.404	14.13	2.359	13.72	-9.96	-10.19	-0.2279	0	59.28	16.17
11/26/2010 10:00	18476	1_60	2010	330	1000	0.7220305	19.14902	36.39082	5.323	20.97	3.169	20.2	-7.562	-7.945	-0.3832528	0	43.59	21.41
11/26/2010 11:00	18477	1_60	2010	330	1100	0.9525158	58.81696	62.0687	4.228	27.99	4.162	26.32	-5.196	-5.638	-0.4411997	0	35.81	25.44
11/26/2010 12:00	18478	1_60	2010	330	1200	1.656798	298.758	36.21335	0.006	30.51	-2.795	31.41	-3.301	-3.885	-0.5833418	0	31.9	27.82
11/26/2010 13:00	18479	1_60	2010	330	1300	1.443889	269.7263	36.5578	3.95	30.1	7.555	29.52	-1.453	-2.085	-0.6322271	0	28.6	31.34
11/26/2010 14:00	18480	1_60	2010	330	1400	1.836111	289.8018	34.52909	2.061	26.46	2.867	24.94	0.471	-0.119	-0.5903063	0	26.54	34.11
11/26/2010 15:00	18481	1_60	2010	330	1500	1.633075	265.989	36.07502	0.642	25.38	3.514	24.42	1.627	1.015	-0.612492	0	23.53	36.12
11/26/2010 16:00	18482	1_60	2010	330	1600	1.737552	246.4521	21.86547	1.504	18.93	6.219	20.2	1.982	1.474	-0.5085406	0	23.45	36.96
11/26/2010 17:00	18483	1_60	2010	330	1700	1.309689	210.8931	8.325096	-0.473	5.244	0.368	5.382	-0.983	0.513	1.495818	0	32.61	31.32
11/26/2010 18:00	18484	1_60	2010	330	1800	1.73612	150.1242	10.50982	-0.149	1.222	0.078	1.206	-4.086	-0.708	3.37802	0	46.13	25.35
11/26/2010 19:00	18485	1_60	2010	330	1900	0.8226659	143.6762	31.05926	-0.067	0.128	-0.074	0.236	-5.048	-1.883	3.165145	0	50.98	23.47
11/26/2010 20:00	18486	1_60	2010	330	2000	0.6828421	143.929	49.47946	-0.002	0.056	-0.003	0.086	-6.302	-3.175	3.127035	0	56.52	21.49
11/26/2010 21:00	18487	1_60	2010	330	2100	0.9502185	231.4753	21.42685	-0.097	0.164	-0.096	0.178	-6.709	-4.011	2.698263	0	59.19	20.5
11/26/2010 22:00	18488	1_60	2010	330	2200	1.877255	147.107	27.2969	-0.073	2.541	0.12	2.287	-7.562	-5.747	1.814797	0	62.24	18.89
11/26/2010 23:00	18489	1_60	2010	330	2300	1.210703	116.5458	31.04456	-0.6	3.366	-0.696	4.154	-7.775	-5.487	2.288193	0	62.78	18.43

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/24/2010 0:00	18418	1_60	2010	328	0	24.26	0.063	IL	10.34	211.1	2315	13.47
11/24/2010 1:00	18419	1_60	2010	328	100	24.24	0.049	IL	13.52	211.6	45	13.47
11/24/2010 2:00	18420	1_60	2010	328	200	24.24	0.039	IL	17.92	201.5	122	13.49
11/24/2010 3:00	18421	1_60	2010	328	300	24.26	0.015	IL	12.19	194.8	210	13.5
11/24/2010 4:00	18422	1_60	2010	328	400	24.25	0.014	IL	14.95	204.7	358	13.5
11/24/2010 5:00	18423	1_60	2010	328	500	24.26	0.015	IL	13.76	197.3	421	13.5
11/24/2010 6:00	18424	1_60	2010	328	600	24.29	0.037	IL	11.57	283.1	502	13.52
11/24/2010 7:00	18425	1_60	2010	328	700	24.31	0.165	IL	11.09	248.1	639	13.56
11/24/2010 8:00	18426	1_60	2010	328	800	24.33	12.14	IL	11.78	247.8	709	13.6
11/24/2010 9:00	18427	1_60	2010	328	900	24.36	60.44	IL	8.77	238.1	821	13.62
11/24/2010 10:00	18428	1_60	2010	328	1000	24.38	88.3	IL	4.847	36.94	910	13.63
11/24/2010 11:00	18429	1_60	2010	328	1100	24.4	154.1	IL	5.871	8.73	1047	13.62
11/24/2010 12:00	18430	1_60	2010	328	1200	24.39	456.3	IL	7.168	346	1137	13.59
11/24/2010 13:00	18431	1_60	2010	328	1300	24.4	279.9	IL	10.48	248.3	1222	13.56
11/24/2010 14:00	18432	1_60	2010	328	1400	24.41	445.2	IL	6.895	195.2	1314	13.55
11/24/2010 15:00	18433	1_60	2010	328	1500	24.41	245.9	IL	8.67	31.16	1446	13.52
11/24/2010 16:00	18434	1_60	2010	328	1600	24.43	99.9	IL	8.06	25.36	1510	13.56
11/24/2010 17:00	18435	1_60	2010	328	1700	24.44	43.65	IL	7.066	16.55	1601	13.6
11/24/2010 18:00	18436	1_60	2010	328	1800	24.46	0.607	IL	3.072	178.1	1747	13.67
11/24/2010 19:00	18437	1_60	2010	328	1900	24.48	0.024	IL	2.765	194.9	1810	13.73
11/24/2010 20:00	18438	1_60	2010	328	2000	24.49	0.032	IL	3.959	29.1	1904	13.79
11/24/2010 21:00	18439	1_60	2010	328	2100	24.51	0.036	IL	4.198	132.7	2044	13.84
11/24/2010 22:00	18440	1_60	2010	328	2200	24.51	0.049	IL	2.97	155.5	2106	13.87
11/24/2010 23:00	18441	1_60	2010	328	2300	24.53	0.016	IL	4.813	127.2	2229	13.9
11/25/2010 0:00	18442	1_60	2010	329	0	24.54	0.022	IL	5.12	121.1	2349	13.92
11/25/2010 1:00	18443	1_60	2010	329	100	24.56	0.05	IL	5.871	115.6	16	13.93
11/25/2010 2:00	18444	1_60	2010	329	200	24.56	0.032	IL	3.823	91.7	128	13.95
11/25/2010 3:00	18445	1_60	2010	329	300	24.59	0.023	IL	2.731	82.6	207	13.99
11/25/2010 4:00	18446	1_60	2010	329	400	24.61	0.057	IL	3.925	121.7	348	14.02
11/25/2010 5:00	18447	1_60	2010	329	500	24.62	0.057	IL	5.018	105.3	424	14.03
11/25/2010 6:00	18448	1_60	2010	329	600	24.64	0.058	IL	4.198	78.23	515	14.03
11/25/2010 7:00	18449	1_60	2010	329	700	24.66	0.22	IL	2.458	120	658	14.05
11/25/2010 8:00	18450	1_60	2010	329	800	24.7	51.65	IL	5.018	107	752	14.06
11/25/2010 9:00	18451	1_60	2010	329	900	24.73	217.1	IL	4.506	114.2	806	13.99
11/25/2010 10:00	18452	1_60	2010	329	1000	24.73	374.6	IL	3.345	80.5	916	13.89
11/25/2010 11:00	18453	1_60	2010	329	1100	24.73	492.6	IL	4.301	293.4	1024	13.78
11/25/2010 12:00	18454	1_60	2010	329	1200	24.72	558	IL	4.028	311.6	1158	13.69
11/25/2010 13:00	18455	1_60	2010	329	1300	24.72	561.9	IL	3.857	319.5	1231	13.61
11/25/2010 14:00	18456	1_60	2010	329	1400	24.71	505	IL	4.437	307.8	1307	13.55
11/25/2010 15:00	18457	1_60	2010	329	1500	24.71	388.4	IL	4.676	294.7	1458	13.51
11/25/2010 16:00	18458	1_60	2010	329	1600	24.72	232.5	IL	6.246	306.1	1525	13.51
11/25/2010 17:00	18459	1_60	2010	329	1700	24.74	45.35	IL	3.721	255.9	1602	13.55
11/25/2010 18:00	18460	1_60	2010	329	1800	24.75	0.575	IL	4.608	233.7	1727	13.64
11/25/2010 19:00	18461	1_60	2010	329	1900	24.78	0.024	IL	2.116	118.4	1819	13.72
11/25/2010 20:00	18462	1_60	2010	329	2000	24.79	0.011	IL	2.185	93.8	1959	13.79
11/25/2010 21:00	18463	1_60	2010	329	2100	24.81	0.033	IL	3.55	95.1	2013	13.84
11/25/2010 22:00	18464	1_60	2010	329	2200	24.83	0.015	IL	3.14	102.5	2144	13.87
11/25/2010 23:00	18465	1_60	2010	329	2300	24.83	0.014	IL	3.277	96.2	2250	13.89
11/26/2010 0:00	18466	1_60	2010	330	0	24.84	0.022	IL	3.925	89.6	2313	13.91
11/26/2010 1:00	18467	1_60	2010	330	100	24.84	0.039	IL	3.516	97.5	31	13.92
11/26/2010 2:00	18468	1_60	2010	330	200	24.86	0.046	IL	3.209	94.6	143	13.93
11/26/2010 3:00	18469	1_60	2010	330	300	24.86	0.056	IL	3.277	112.3	232	13.94
11/26/2010 4:00	18470	1_60	2010	330	400	24.86	0.053	IL	2.833	102.2	300	13.95
11/26/2010 5:00	18471	1_60	2010	330	500	24.87	0.039	IL	2.014	88.2	404	13.96
11/26/2010 6:00	18472	1_60	2010	330	600	24.88	0.038	IL	2.321	105.6	546	13.97
11/26/2010 7:00	18473	1_60	2010	330	700	24.89	0.236	IL	1.707	248.4	607	13.98
11/26/2010 8:00	18474	1_60	2010	330	800	24.9	44.03	IL	2.116	97.7	739	13.97
11/26/2010 9:00	18475	1_60	2010	330	900	24.92	206.2	IL	1.57	273	811	13.9
11/26/2010 10:00	18476	1_60	2010	330	1000	24.91	361.3	IL	2.253	31.18	915	13.78
11/26/2010 11:00	18477	1_60	2010	330	1100	24.9	478.1	IL	3.413	315.1	1059	13.67
11/26/2010 12:00	18478	1_60	2010	330	1200	24.87	541.8	IL	3.925	324.5	1113	13.58
11/26/2010 13:00	18479	1_60	2010	330	1300	24.85	546.4	IL	4.267	285.8	1209	13.51
11/26/2010 14:00	18480	1_60	2010	330	1400	24.82	489.4	IL	3.55	306	1345	13.45
11/26/2010 15:00	18481	1_60	2010	330	1500	24.8	376.3	IL	3.482	245.9	1405	13.42
11/26/2010 16:00	18482	1_60	2010	330	1600	24.79	224.8	IL	2.97	222.9	1515	13.36
11/26/2010 17:00	18483	1_60	2010	330	1700	24.78	42.59	IL	2.628	238.9	1605	13.42
11/26/2010 18:00	18484	1_60	2010	330	1800	24.79	0.545	IL	3.072	132.1	1723	13.54
11/26/2010 19:00	18485	1_60	2010	330	1900	24.79	0.037	IL	1.98	116.7	1833	13.63
11/26/2010 20:00	18486	1_60	2010	330	2000	24.79	0.021	IL	1.877	84.3	1941	13.7
11/26/2010 21:00	18487	1_60	2010	330	2100	24.79	0.043	IL	2.321	117.1	2059	13.74
11/26/2010 22:00	18488	1_60	2010	330	2200	24.78	0.047	IL	3.379	111.4	2110	13.78
11/26/2010 23:00	18489	1_60	2010	330	2300	24.77	0.023	IL	2.594	104.1	2222	13.8

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/27/2010 0:00	18490	1_60	2010	331	0	1.341617	194.0472	38.46107	0.01	0.244	0.135	1.496	-8.2	-6.475	1.724212	0	64.49	17.72
11/27/2010 1:00	18491	1_60	2010	331	100	0.6230124	164.3455	34.95695	-0.01	2.809	0.047	2.509	-9.25	-7.35	1.900811	0	68.43	16.25
11/27/2010 2:00	18492	1_60	2010	331	200	1.525068	161.8563	26.93032	-0.204	2.961	0.883	4.39	-9.81	-7.973	1.840323	0	72.04	15.05
11/27/2010 3:00	18493	1_60	2010	331	300	1.516829	110.6994	50.02739	0.106	4.362	-0.054	3.433	-10.08	-8.14	1.938694	0	73.3	14.3
11/27/2010 4:00	18494	1_60	2010	331	400	1.665366	140.1292	45.17925	-0.008	0.7	0.101	1.211	-10.87	-8.12	2.757685	0	75.48	13.11
11/27/2010 5:00	18495	1_60	2010	331	500	0.9408856	76.55135	54.17937	0.001	0.078	-0.004	0.108	-11.12	-9.27	1.85476	0	77.82	12.35
11/27/2010 6:00	18496	1_60	2010	331	600	1.381968	64.08064	37.65534	0.159	1.643	0.024	1.599	-11.78	-10.1	1.673277	0	80.1	11.53
11/27/2010 7:00	18497	1_60	2010	331	700	1.1792	128.5233	21.84693	-0.009	0.228	0.1	1.062	-11.6	-9.78	1.823718	0	78.67	11.71
11/27/2010 8:00	18498	1_60	2010	331	800	0.3392573	161.8802	32.63733	0	0.029	-0.003	0.085	-11.65	-9.33	2.315571	0	77.85	12.48
11/27/2010 9:00	18499	1_60	2010	331	900	0.5488889	118.2918	35.81405	1.274	8.62	1.802	9.87	-7.408	-7.558	-0.150733	0	63.2	21.52
11/27/2010 10:00	18500	1_60	2010	331	1000	0.8067385	325.1499	41.3017	3.255	22.56	2.821	20.88	-4.591	-4.897	-0.3061746	0	49.64	26.59
11/27/2010 11:00	18501	1_60	2010	331	1100	1.35631	298.8405	34.66864	1.693	28.48	1.588	26.93	-2.347	-2.825	-0.477711	0	42.95	29.84
11/27/2010 12:00	18502	1_60	2010	331	1200	1.083845	271.8727	37.44406	0.599	30.39	3.562	31.05	0.031	-0.489	-0.5197732	0	34.41	34.48
11/27/2010 13:00	18503	1_60	2010	331	1300	1.008894	289.8689	53.13586	2.037	30.02	1.804	30.13	2.481	2.011	-0.4700463	0	29.87	38.84
11/27/2010 14:00	18504	1_60	2010	331	1400	0.6519744	87.14342	57.42778	2.725	27.58	2.716	27.68	5.236	4.739	-0.496998	0	26.99	43.41
11/27/2010 15:00	18505	1_60	2010	331	1500	0.8308887	45.39347	45.36444	7.35	21.7	6.061	20	7.112	6.715	-0.3976308	0	24.98	46.94
11/27/2010 16:00	18506	1_60	2010	331	1600	1.888277	200.5096	19.54211	0.396	11.85	5.517	13.26	7.221	6.873	-0.3474865	0	26.76	45.84
11/27/2010 17:00	18507	1_60	2010	331	1700	2.475515	125.2791	16.68562	5.572	13.07	10.5	14.31	4.657	5.278	0.6210107	0	32.68	40.95
11/27/2010 18:00	18508	1_60	2010	331	1800	2.252082	116.7986	58.16316	2.67	6.777	4.856	8.33	2.637	4.139	1.501361	0	38.6	37.14
11/27/2010 19:00	18509	1_60	2010	331	1900	1.182087	286.1449	48.70359	-0.054	4.355	0.315	4.328	1.505	3.194	1.689037	0	42.26	35.19
11/27/2010 20:00	18510	1_60	2010	331	2000	1.255364	155.1539	48.3807	0.257	5.466	-0.143	4.795	-0.236	2.66	2.896043	0	49.22	31.92
11/27/2010 21:00	18511	1_60	2010	331	2100	1.496283	127.8583	32.38565	0.256	2.193	2.141	5.429	-0.239	2.566	2.8054	0	49.89	31.9
11/27/2010 22:00	18512	1_60	2010	331	2200	1.684327	116.7064	25.31761	-0.125	4.298	-0.2	3.7	-0.267	1.725	1.992734	0	50.97	31.84
11/27/2010 23:00	18513	1_60	2010	331	2300	2.120356	112.3784	19.61907	0.05	5.402	0.815	5.625	-1.242	1.03	2.271983	0	55.9	30.14
11/28/2010 0:00	18514	1_60	2010	332	0	2.09148	116.1157	19.3619	0.825	7.628	0.772	7.327	-1.001	0.494	1.494174	0	53.62	30.53
11/28/2010 1:00	18515	1_60	2010	332	100	3.771037	164.9427	15.06723	0.889	15.87	18.23	24.15	1.742	3.058	1.315552	0	44.28	35.22
11/28/2010 2:00	18516	1_60	2010	332	200	6.214356	200.7164	11.68787	2.208	35.87	42.64	39.21	5.584	5.998	0.414777	0	26.35	42.27
11/28/2010 3:00	18517	1_60	2010	332	300	7.518973	186.0853	16.51974	2.962	49.59	55.14	54.8	5.916	6.186	0.2695425	0	24.46	42.87
11/28/2010 4:00	18518	1_60	2010	332	400	6.359387	189.6674	22.2705	2.003	48.25	43.82	55.08	5.465	5.743	0.2777017	0	26.38	42.06
11/28/2010 5:00	18519	1_60	2010	332	500	4.623539	212.7389	27.2743	3.485	45.77	28.37	51.98	4.794	5.112	0.3181078	0	23.22	40.88
11/28/2010 6:00	18520	1_60	2010	332	600	3.18153	176.1489	46.46001	7.484	44.29	22.43	48.74	5.005	5.24	0.2345334	0	22.51	41.21
11/28/2010 7:00	18521	1_60	2010	332	700	4.578539	167.4526	29.4286	-2.375	48.59	18.3	53.68	4.862	5.201	0.338772	0	23.58	41.02
11/28/2010 8:00	18522	1_60	2010	332	800	7.59268	213.2446	21.07142	2.636	54.77	51.38	61.47	4.075	4.247	0.1725418	0	28.12	39.58
11/28/2010 9:00	18523	1_60	2010	332	900	6.70103	196.5198	18.61061	1.949	42.85	46.11	48.26	2.762	2.816	0.053385	0	36.48	37.16
11/28/2010 10:00	18524	1_60	2010	332	1000	6.577775	196.1866	18.12071	3.066	44.49	46.48	49.07	2.456	2.366	-0.08950057	0	39.7	36.59
11/28/2010 11:00	18525	1_60	2010	332	1100	9.025355	190.1039	13.22973	1.493	53.07	65.01	59.53	1.921	1.742	-0.1797201	0	51.27	35.57
11/28/2010 12:00	18526	1_60	2010	332	1200	5.686337	184.4815	18.38156	2.212	43.76	40.27	52	2.086	1.718	-0.3678509	0	52.29	35.83
11/28/2010 13:00	18527	1_60	2010	332	1300	6.008077	185.8081	16.22961	1.575	41.77	41.42	45.27	1.891	1.345	-0.5457096	0	57.02	35.46
11/28/2010 14:00	18528	1_60	2010	332	1400	4.935832	212.4706	27.61126	0.873	41.57	24	47.76	1.452	0.857	-0.5948812	0	64.65	34.87
11/28/2010 15:00	18529	1_60	2010	332	1500	2.705853	303.1401	28.81046	2.33	21.14	0.493	22.89	-1.53	-1.635	-0.1046106	0.07	95.3	29.42
11/28/2010 16:00	18530	1_60	2010	332	1600	2.049074	56.99597	31.34714	0.803	14.76	4.601	18.53	-1.436	-1.476	-0.03957941	0.03	95.2	29.74
11/28/2010 17:00	18531	1_60	2010	332	1700	1.568226	80.98302	22.37225	1.467	12.25	1.899	13.68	-1.462	-1.429	0.03311216	0.01	95.9	29.5
11/28/2010 18:00	18532	1_60	2010	332	1800	1.140046	63.69962	32.5979	0.27	9.1	0.866	10.9	-2.053	-1.784	0.2687631	0	96.5	28.34
11/28/2010 19:00	18533	1_60	2010	332	1900	1.032388	113.2409	51.57495	1.444	10.27	4.346	14.48	-1.932	-1.334	0.598193	0	94.3	28.09
11/28/2010 20:00	18534	1_60	2010	332	2000	0.9421914	247.2454	38.11456	0.849	6.707	2.1	8.05	-1.911	-1.272	0.6387207	0	91.8	28.18
11/28/2010 21:00	18535	1_60	2010	332	2100	1.470515	344.9456	35.1935	1.992	15.51	0.939	12.76	-1.778	-1.413	0.3644052	0	90.5	28.56
11/28/2010 22:00	18536	1_60	2010	332	2200	0.7354892	18.8295	24.80506	0.008	0.137	0	0.111	-2.215	-2.182	0.03367706	0.05	94.6	28.43
11/28/2010 23:00	18537	1_60	2010	332	2300	1.213773	205.2382	16.43863	-0.061	0.693	-0.015	0.236	-2.366	-2.173	0.1928953	0	96.2	27.89
11/29/2010 0:00	18538	1_60	2010	333	0	1.721228	133.968	25.66072	-0.801	3.598	-0.408	2.739	-2.616	-2.34	0.2761878	0	90.6	27.34
11/29/2010 1:00	18539	1_60	2010	333	100	1.212354	171.0274	20.27747	-0.082	1.4	-0.071	0.949	-3.173	-2.737	0.4360143	0	91.6	26.42
11/29/2010 2:00	18540	1_60	2010	333	200	2.022937	222.3566	29.62173	-4.234	8.07	-1.497	5.635	-3.634	-3.349	0.2850709	0	88.1	25.54
11/29/2010 3:00	18541	1_60	2010	333	300	1.356621	208.0081	15.77737	-0.128	0.977	-0.038	0.643	-4.216	-3.803	0.4124629	0	90.5	24.57
11/29/2010 4:00	18542	1_60	2010	333	400	1.265602	207.4204	23.87079	-0.612	2.8	-0.349	2.04	-4.544	-4.133	0.411057	0	91	24.08
11/29/2010 5:00	18543	1_60	2010	333	500	1.740881	260.1184	16.40152	-1.089	3.584	-0.029	0.72	-4.967	-4.674	0.2930115	0	91.4	23.25
11/29/2010 6:00	18544	1_60	2010	333	600	1.225783	233.2805	22.04484	-0.047	0.406	-0.021	0.305	-5.597	-5.084	0.5131825	0.01	92.1	22.24
11/29/2010 7:00	18545	1_60	2010	333	700	0.5738115	127.2988	14.6067	0	0	0	0	-6.591	-5.638	0.9529732	0	94.6	20.58
11/29/2010 8:00	18546	1_60	2010	333	800	0.8922176	156.5999	17.70952	-0.09	1.246	-0.118	1.67	-7.144	-5.731	1.413067	0	94.2	19.88
11/29/2010 9:00	18547	1_60	2010	333	900	0.8800192	134.6791	48.76252	-0.601	3.313	-0.567	3.63	-7.621	-6.109	1.512122	0	90.1	19.98
11/29/2010 10:00	18548	1_60	2010	333	1000	1.365047	269.5339	61.68092	-1.616	8.3	-0.432	7.042	-4.09	-4.102	-0.01154398	0	74.55	28.12
11/29/2010 11:00	18549	1_60	2010	333	1100	5.883146	303.4665	12.67572	7.289	25.33	-0.836	32.59	-1.949	-2.037	-0.08828247	0	64.18	29.59
11/29/2010 12:00	18550	1_60	2010	333	1200	7.946072	310.695	11.79908	11.3	40.8	0.826	51.82	-1.047	-1.156	-0.1086156	0	53.12	30.72
11/29/2010 13:00	18551	1_60	2010	333	1300	8.256129	315.8476	13.05277	10.29	41.37	-5.171	48.2	-0.889	-1.019	-0.1302318	0	52.08	30.95
11/29/2010 14:00	18552	1_60	2010	333	1400	6.036002	320.5507	19.74794	11.02	38.93	-1.287	44.36	-0.541	-0.673	-0.1315588	0	49.76	31.75
11/29/2010 15:00	18553	1_60	2010	333	1500	6.041948	314.4272	12.84162	7.277	33.18	-3.082	38.64	0.173	0.018	-0.1542302	0	46.84	32.89
11/29/2010 16:00	18554	1_60	2010	333	1600	6.319449	316.3774	10.2729	9.79	32.28	-2.33	37.8	0.031	0.024	-0.007174622	0	44.6	32.65
11/29/2010 17:00	18555	1_60	2010	333	1700	5.55661	317.3124	14.06817	9.55	31.86	1.587	34.89	-1.237	-0.858	0.3782526	0	46.43	30.28
11/29/2010 18:00	18556	1_60	2010	333	1800	1.851615	306.427	21.56062	1.962	14.12	-0.317	13.43	-3.174	-2.358	0.8163409	0	52.69	26.65
11/29/2010 19:00	18557	1_60	2010	333	1900	1.460963	163.9651	51.24076	0.516	15.22	1.079	17.33	-5.029	-3.106	1.923402	0	55.3	23.74
11/29/2010 20:00	18558	1_60	2010	333	2000	1.032155	158.718	45.96903	-0.515	5.181	0.067	4.782	-4.743	-2.733	2.009721	0	52.04	24.09
11/29/2010 21:00	18559	1_60	2010	333	2100	2.175772	128.3765	11.0208	-0.163	4.177	1.723	6.171	-8.33	-5.318	3.013035	0	68.68	17.65
11/29/2010 22:00	18560	1_60	2010	333	2200	2.140067	134.3025	12.37886	-0.007	4.666	1.213	6.144	-9.13	-6.492	2.640506	0	69.69	16.33
11/29/2010 23:00	18561	1_60	2010	333	2300	1.470923	116.4077	44.4907	0.142	1.391	0.169	1.645	-9.41	-7.615	1.790744	0	76.62	15.36

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/27/2010 0:00	18490	1_60	2010	331	0	24.77	0.021	IL	2.458	106.5	2322	13.81
11/27/2010 1:00	18491	1_60	2010	331	100	24.75	0.05	IL	1.502	142.6	53	13.83
11/27/2010 2:00	18492	1_60	2010	331	200	24.75	0.062	IL	2.662	122.8	146	13.85
11/27/2010 3:00	18493	1_60	2010	331	300	24.75	0.044	IL	2.901	100.5	258	13.87
11/27/2010 4:00	18494	1_60	2010	331	400	24.72	0.02	IL	2.867	101.9	301	13.88
11/27/2010 5:00	18495	1_60	2010	331	500	24.71	0.025	IL	2.219	95	414	13.89
11/27/2010 6:00	18496	1_60	2010	331	600	24.69	0.024	IL	2.594	81.6	555	13.91
11/27/2010 7:00	18497	1_60	2010	331	700	24.68	0.232	IL	2.56	94.8	602	13.92
11/27/2010 8:00	18498	1_60	2010	331	800	24.67	43.11	IL	1.263	91.7	702	13.92
11/27/2010 9:00	18499	1_60	2010	331	900	24.65	207.4	IL	1.434	137.9	808	13.85
11/27/2010 10:00	18500	1_60	2010	331	1000	24.63	363.8	IL	2.185	331.6	943	13.72
11/27/2010 11:00	18501	1_60	2010	331	1100	24.6	481.6	IL	3.379	283.8	1050	13.6
11/27/2010 12:00	18502	1_60	2010	331	1200	24.55	543.8	IL	2.731	285.7	1116	13.51
11/27/2010 13:00	18503	1_60	2010	331	1300	24.52	549.2	IL	3.174	280.7	1235	13.42
11/27/2010 14:00	18504	1_60	2010	331	1400	24.49	485.8	IL	1.946	132.3	1314	13.35
11/27/2010 15:00	18505	1_60	2010	331	1500	24.47	383.3	IL	2.697	78.5	1439	13.3
11/27/2010 16:00	18506	1_60	2010	331	1600	24.43	182.5	IL	3.379	173.4	1540	13.29
11/27/2010 17:00	18507	1_60	2010	331	1700	24.39	28.37	IL	4.745	138.9	1639	13.34
11/27/2010 18:00	18508	1_60	2010	331	1800	24.37	0.376	IL	4.574	113.1	1705	13.42
11/27/2010 19:00	18509	1_60	2010	331	1900	24.35	0.016	IL	3.106	229.8	1828	13.48
11/27/2010 20:00	18510	1_60	2010	331	2000	24.34	0.024	IL	3.209	33.43	1910	13.53
11/27/2010 21:00	18511	1_60	2010	331	2100	24.32	0.058	IL	3.174	173.3	2031	13.56
11/27/2010 22:00	18512	1_60	2010	331	2200	24.31	0.057	IL	3.345	83.2	2106	13.57
11/27/2010 23:00	18513	1_60	2010	331	2300	24.3	0.047	IL	4.164	94.1	2248	13.58
11/28/2010 0:00	18514	1_60	2010	332	0	24.28	0.033	IL	4.813	99.8	2358	13.6
11/28/2010 1:00	18515	1_60	2010	332	100	24.25	0.03	IL	7.748	204.5	48	13.59
11/28/2010 2:00	18516	1_60	2010	332	200	24.22	0.001	IL	10.51	219.6	154	13.52
11/28/2010 3:00	18517	1_60	2010	332	300	24.2	0.026	IL	14.81	196.1	255	13.47
11/28/2010 4:00	18518	1_60	2010	332	400	24.18	0.067	IL	13.04	185.4	329	13.44
11/28/2010 5:00	18519	1_60	2010	332	500	24.17	0.057	IL	12.8	204.8	444	13.44
11/28/2010 6:00	18520	1_60	2010	332	600	24.15	0.063	IL	12.46	232.9	528	13.44
11/28/2010 7:00	18521	1_60	2010	332	700	24.14	0.119	IL	14.78	220	608	13.45
11/28/2010 8:00	18522	1_60	2010	332	800	24.15	5.743	IL	16.01	218.9	730	13.45
11/28/2010 9:00	18523	1_60	2010	332	900	24.16	43.43	IL	13.28	167.6	801	13.46
11/28/2010 10:00	18524	1_60	2010	332	1000	24.16	94.2	IL	14.2	159.4	950	13.47
11/28/2010 11:00	18525	1_60	2010	332	1100	24.15	143.9	IL	16.25	204.4	1055	13.48
11/28/2010 12:00	18526	1_60	2010	332	1200	24.14	205.3	IL	13.14	178.5	1100	13.49
11/28/2010 13:00	18527	1_60	2010	332	1300	24.13	283.1	IL	12.19	159.7	1227	13.48
11/28/2010 14:00	18528	1_60	2010	332	1400	24.14	260.9	IL	10.14	178.6	1329	13.46
11/28/2010 15:00	18529	1_60	2010	332	1500	24.16	45.49	IL	6.554	299	1421	13.5
11/28/2010 16:00	18530	1_60	2010	332	1600	24.17	40.08	IL	6.144	222.6	1510	13.53
11/28/2010 17:00	18531	1_60	2010	332	1700	24.19	12.96	IL	2.833	51.76	1610	13.55
11/28/2010 18:00	18532	1_60	2010	332	1800	24.21	0.174	IL	2.697	94.9	1703	13.56
11/28/2010 19:00	18533	1_60	2010	332	1900	24.22	0.048	IL	4.54	270.4	1816	13.58
11/28/2010 20:00	18534	1_60	2010	332	2000	24.23	0.049	IL	3.14	221.8	1950	13.59
11/28/2010 21:00	18535	1_60	2010	332	2100	24.24	0.051	IL	3.55	7.415	2004	13.59
11/28/2010 22:00	18536	1_60	2010	332	2200	24.26	0.07	IL	1.707	329.5	2100	13.59
11/28/2010 23:00	18537	1_60	2010	332	2300	24.27	0.067	IL	2.833	216	2255	13.58
11/29/2010 0:00	18538	1_60	2010	333	0	24.29	0.054	IL	3.243	97.6	2339	13.59
11/29/2010 1:00	18539	1_60	2010	333	100	24.3	0.051	IL	2.219	195.6	29	13.6
11/29/2010 2:00	18540	1_60	2010	333	200	24.33	0.046	IL	4.949	217.9	130	13.61
11/29/2010 3:00	18541	1_60	2010	333	300	24.35	0.047	IL	2.355	230.1	201	13.62
11/29/2010 4:00	18542	1_60	2010	333	400	24.36	0.056	IL	2.082	173.3	321	13.63
11/29/2010 5:00	18543	1_60	2010	333	500	24.39	0.063	IL	3.379	253	454	13.64
11/29/2010 6:00	18544	1_60	2010	333	600	24.41	0.064	IL	2.355	263.8	504	13.65
11/29/2010 7:00	18545	1_60	2010	333	700	24.44	0.081	IL	1.024	137.8	641	13.67
11/29/2010 8:00	18546	1_60	2010	333	800	24.47	8.1	IL	1.741	156.7	707	13.7
11/29/2010 9:00	18547	1_60	2010	333	900	24.51	74.69	IL	2.765	32.83	801	13.73
11/29/2010 10:00	18548	1_60	2010	333	1000	24.53	232.7	IL	5.564	291.2	956	13.68
11/29/2010 11:00	18549	1_60	2010	333	1100	24.55	464.5	IL	13.28	316.1	1058	13.6
11/29/2010 12:00	18550	1_60	2010	333	1200	24.57	558.7	IL	13.99	307.2	1109	13.55
11/29/2010 13:00	18551	1_60	2010	333	1300	24.59	511.7	IL	16.21	300.4	1224	13.53
11/29/2010 14:00	18552	1_60	2010	333	1400	24.61	423.8	IL	12.66	316.1	1302	13.52
11/29/2010 15:00	18553	1_60	2010	333	1500	24.63	371.1	IL	10.62	316.1	1406	13.52
11/29/2010 16:00	18554	1_60	2010	333	1600	24.67	220.1	IL	11.4	336.3	1511	13.52
11/29/2010 17:00	18555	1_60	2010	333	1700	24.7	41.84	IL	11.98	317.3	1621	13.55
11/29/2010 18:00	18556	1_60	2010	333	1800	24.74	0.513	IL	5.837	331.1	1704	13.61
11/29/2010 19:00	18557	1_60	2010	333	1900	24.76	0.028	IL	5.53	37.58	1808	13.68
11/29/2010 20:00	18558	1_60	2010	333	2000	24.78	0.033	IL	2.423	191.7	1901	13.73
11/29/2010 21:00	18559	1_60	2010	333	2100	24.79	0.037	IL	3.857	140.4	2013	13.76
11/29/2010 22:00	18560	1_60	2010	333	2200	24.81	0.03	IL	3.652	96.4	2115	13.81
11/29/2010 23:00	18561	1_60	2010	333	2300	24.83	0.039	IL	2.935	113.1	2224	13.83

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
11/30/2010 0:00	18562	1_60	2010	334	0	1.152794	15.5821	25.38215	0.021	3.839	0.022	4.079	-8.54	-7.385	1.152405	0	77.12	16.83
11/30/2010 1:00	18563	1_60	2010	334	100	1.677442	113.455	27.40758	-0.048	2.176	0.389	2.903	-10.19	-7.926	2.267204	0	77.49	14.56
11/30/2010 2:00	18564	1_60	2010	334	200	1.871954	85.22745	13.16793	-0.158	2.989	-0.28	4.208	-12.17	-9.63	2.5455	0	80.8	10.59
11/30/2010 3:00	18565	1_60	2010	334	300	2.372388	109.048	9.293274	0.029	1.977	0.013	2.143	-13.24	-10.49	2.743553	0	82	8.8
11/30/2010 4:00	18566	1_60	2010	334	400	2.561319	115.7488	12.72461	1.082	5.764	4.25	8.01	-12.25	-10.05	2.206005	0	79.1	10.49
11/30/2010 5:00	18567	1_60	2010	334	500	1.892518	117.4062	9.796103	0.193	1.944	0.28	1.953	-14.04	-12.09	1.948962	0	83.5	7.359
11/30/2010 6:00	18568	1_60	2010	334	600	1.838187	117.8734	16.92585	0.158	4.602	1.296	4.757	-12.95	-11.2	1.750522	0	78.28	9.32
11/30/2010 7:00	18569	1_60	2010	334	700	1.327414	127.8806	24.18154	-0.133	2.433	0.136	2.514	-14.91	-12.84	2.073256	0	82.7	5.639
11/30/2010 8:00	18570	1_60	2010	334	800	2.308949	124.8597	8.324455	-0.081	2.121	0.567	2.628	-15.46	-13.21	2.254581	0	82.4	5.229
11/30/2010 9:00	18571	1_60	2010	334	900	1.98115	107.8438	12.06608	2.439	13.01	2.105	13.24	-10.41	-10.51	-0.1007183	0	70.34	14.89
11/30/2010 10:00	18572	1_60	2010	334	1000	1.626619	152.5475	40.94613	1.66	22.74	4.142	23.26	-7.419	-7.798	-0.3792231	0	57.04	21.1
11/30/2010 11:00	18573	1_60	2010	334	1100	0.7017521	225.1367	56.54895	-2.747	30.22	1.217	28.41	-5.767	-6.065	-0.2979367	0	46	26.4
11/30/2010 12:00	18574	1_60	2010	334	1200	1.360039	288.5581	32.08224	1.355	27.72	1.651	28.79	-4.161	-4.527	-0.3660769	0	45.57	27.9
11/30/2010 13:00	18575	1_60	2010	334	1300	1.463943	295.7333	25.42624	1.236	27.57	2.061	29.21	-2.641	-2.991	-0.3509157	0	44.14	30.42
11/30/2010 14:00	18576	1_60	2010	334	1400	0.9403985	274.8288	42.81694	4.347	22.89	6.494	23.89	-0.967	-1.29	-0.3232165	0	38.44	33.82
11/30/2010 15:00	18577	1_60	2010	334	1500	1.188318	247.4625	57.18639	2.867	24.14	7.359	25.07	0.469	0.033	-0.4363068	0	36.37	35.51
11/30/2010 16:00	18578	1_60	2010	334	1600	1.269303	257.5148	25.12649	2.838	15.85	6.125	16.03	0.73	0.42	-0.3102092	0	33.21	35.51
11/30/2010 17:00	18579	1_60	2010	334	1700	1.007987	238.8078	34.27417	0.041	0.595	0.061	0.683	-2.583	-0.892	1.691473	0	42.37	28.62
11/30/2010 18:00	18580	1_60	2010	334	1800	1.299492	186.4431	38.7471	-0.003	0.1	0.016	0.465	-6.371	-1.96	4.410497	0	57.92	21.48
11/30/2010 19:00	18581	1_60	2010	334	1900	2.199857	130.4249	10.72289	-0.012	1.058	3.097	6.167	-7.121	-4.431	2.690038	0	66.73	19.56
11/30/2010 20:00	18582	1_60	2010	334	2000	1.999467	112.5815	20.23217	-0.052	1.13	0.733	3.834	-6.006	-4.423	1.582462	0	66.66	21.61
11/30/2010 21:00	18583	1_60	2010	334	2100	1.129552	148.693	25.76878	-0.005	0.066	-0.161	1.586	-5.71	-4.136	1.573564	0	71.74	21.94
11/30/2010 22:00	18584	1_60	2010	334	2200	1.542015	110.8814	12.74276	0.002	0.245	0.01	0.427	-4.833	-4.105	0.7281141	0	68.67	23.64
11/30/2010 23:00	18585	1_60	2010	334	2300	1.824508	141.6528	33.88831	-0.02	3.77	-0.085	3.227	-6.941	-5.231	1.70994	0	70.92	20.18
12/1/2010 0:00	18586	1_60	2010	335	0	0.8767986	129.3306	39.19261	-0.004	0.121	0.002	0.156	-7.586	-5.553	2.032692	0	70.28	19.18
12/1/2010 1:00	18587	1_60	2010	335	100	1.70275	116.7624	14.86995	0.062	1.213	0.143	1.22	-8.71	-6.169	2.539557	0	71.8	16.9
12/1/2010 2:00	18588	1_60	2010	335	200	1.261713	93.85133	53.45034	0.044	4.508	0.024	3.994	-8.29	-6.438	1.852874	0	74.46	17.24
12/1/2010 3:00	18589	1_60	2010	335	300	1.191511	166.6126	39.64744	-0.003	0.11	0.027	0.441	-7.615	-6.799	0.8158051	0	77.99	18.43
12/1/2010 4:00	18590	1_60	2010	335	400	1.804592	125.6005	46.26316	0.204	1.809	0.48	2.679	-6.849	-6.061	0.7879848	0	78.21	19.95
12/1/2010 5:00	18591	1_60	2010	335	500	1.923598	158.7444	34.75223	0.039	1.493	3.178	6.746	-7.441	-6.601	0.8400811	0	80.6	18.77
12/1/2010 6:00	18592	1_60	2010	335	600	1.620902	148.6568	43.15549	-0.031	0.824	0.01	0.435	-6.641	-6.063	0.5771865	0	78.53	20.26
12/1/2010 7:00	18593	1_60	2010	335	700	1.61675	118.9128	40.18026	0.17	1.754	-0.135	1.835	-6.295	-5.946	0.3492247	0	78.96	20.9
12/1/2010 8:00	18594	1_60	2010	335	800	1.437491	105.4908	15.71449	-0.001	0.314	0.007	0.219	-5.687	-5.472	0.2143018	0	77.61	21.99
12/1/2010 9:00	18595	1_60	2010	335	900	0.9392352	117.33	25.09928	0.485	5.731	0.763	4.298	-3.896	-3.895	0.000904027	0	61.86	26.09
12/1/2010 10:00	18596	1_60	2010	335	1000	0.972881	345.3523	29.35974	1.115	9.82	-0.521	8.45	-2.747	-2.914	-0.1663844	0	53.95	28.72
12/1/2010 11:00	18597	1_60	2010	335	1100	0.4724905	116.276	41.3526	-0.194	14.74	0.924	12.52	-1.663	-1.895	-0.2324273	0	47.83	31.5
12/1/2010 12:00	18598	1_60	2010	335	1200	0.8216984	82.81561	56.06269	-0.009	25.43	0.498	22.96	0.433	0.106	-0.3270451	0	38.73	36.67
12/1/2010 13:00	18599	1_60	2010	335	1300	1.450378	338.3136	41.50188	1.875	28.68	1.136	27.96	2.249	1.86	-0.3888665	0	34.01	38.99
12/1/2010 14:00	18600	1_60	2010	335	1400	1.132369	298.9471	39.28904	-0.512	26.94	-1.327	26.66	3.17	2.846	-0.3235733	0	33.61	40.2
12/1/2010 15:00	18601	1_60	2010	335	1500	1.356882	276.2461	33.1698	0.95	20.64	2.264	20.06	4.138	3.795	-0.3435731	0	34.55	41.22
12/1/2010 16:00	18602	1_60	2010	335	1600	1.073658	288.9008	47.44445	1.479	17.23	3.48	17.73	4.63	4.341	-0.2887899	0	33.29	42.58
12/1/2010 17:00	18603	1_60	2010	335	1700	0.8102125	240.0334	14.98225	0.019	0.95	0.404	2.416	1.945	3.153	1.207673	0	40.47	36.63
12/1/2010 18:00	18604	1_60	2010	335	1800	1.235544	205.8995	22.29877	-0.026	0.572	0.159	0.995	-1.241	2.232	3.473243	0	54.63	30.32
12/1/2010 19:00	18605	1_60	2010	335	1900	1.352016	145.5472	17.92865	0.006	0.709	0.066	1.048	-3.08	0.463	3.54348	0	66.69	26.87
12/1/2010 20:00	18606	1_60	2010	335	2000	1.134611	163.1658	35.86837	-0.013	0.312	0	0.111	-2.953	0.335	3.28803	0	63.95	27.5
12/1/2010 21:00	18607	1_60	2010	335	2100	0.8345556	138.7533	51.8021	-0.182	3.537	0.012	1.293	-4.323	-1.328	2.995301	0	70.81	25.05
12/1/2010 22:00	18608	1_60	2010	335	2200	1.230675	115.5491	40.92982	0.175	4.468	0.011	3.492	-4.183	-1.522	2.660286	0	70.4	24.94
12/1/2010 23:00	18609	1_60	2010	335	2300	0.7582994	298.4081	40.60577	-0.616	4.936	-0.364	3.185	-4.832	-3.359	1.4737	0	72.6	23.75
12/2/2010 0:00	18610	1_60	2010	336	0	1.249876	94.69621	28.21779	0.027	0.506	0.008	0.137	-5.982	-3.751	2.231476	0	76.4	22.04
12/2/2010 1:00	18611	1_60	2010	336	100	0.8977887	110.1873	31.06054	0.002	0.067	-0.003	0.101	-5.997	-3.726	2.271269	0	76.47	21.61
12/2/2010 2:00	18612	1_60	2010	336	200	1.842616	125.6681	12.00819	-0.019	0.815	0.029	0.639	-7.406	-4.17	3.235999	0	80.7	19.29
12/2/2010 3:00	18613	1_60	2010	336	300	1.633215	144.6566	27.11686	0.064	1.278	0.055	0.926	-6.265	-4.235	2.029848	0	76.08	21.34
12/2/2010 4:00	18614	1_60	2010	336	400	1.568021	88.59593	27.36715	-0.04	1.324	-0.146	1.495	-7.272	-6.116	1.156022	0	82	19.39
12/2/2010 5:00	18615	1_60	2010	336	500	1.307527	122.0992	26.07648	0.043	0.588	0.008	0.451	-8.26	-7.401	0.8574564	0	84.5	17.64
12/2/2010 6:00	18616	1_60	2010	336	600	1.213157	125.314	34.16954	0.024	0.42	0.008	0.406	-8.15	-6.307	1.843524	0	83.2	17.8
12/2/2010 7:00	18617	1_60	2010	336	700	0.6496094	143.2977	31.59294	0	0.01	0	0.024	-8.18	-6.19	1.991921	0	83.2	17.75
12/2/2010 8:00	18618	1_60	2010	336	800	0.5784474	222.141	39.0319	-0.076	1.566	-0.009	0.206	-7.898	-6.555	1.342537	0	80.8	18.99
12/2/2010 9:00	18619	1_60	2010	336	900	0.6196617	240.2418	57.25384	0.162	1.734	0.046	0.549	-7.075	-6.745	0.329928	0	83.5	20.02
12/2/2010 10:00	18620	1_60	2010	336	1000	0.7494243	101.0198	25.36108	1.754	7.849	2.096	7.047	-3.68	-3.927	-0.2472523	0	72.85	26.49
12/2/2010 11:00	18621	1_60	2010	336	1100	1.264266	326.6601	37.85613	2.518	14.81	0.822	13.81	-1.771	-2.012	-0.2409581	0	62.33	30.39
12/2/2010 12:00	18622	1_60	2010	336	1200	0.8635986	282.1843	39.80976	1.862	21.37	1.686	18.47	-0.507	-0.834	-0.3263696	0	55.62	33.17
12/2/2010 13:00	18623	1_60	2010	336	1300	0.9233881	289.3658	45.12542	-1.676	23.05	-1.84	19.96	1.224	0.924	-0.3009151	0	49.83	36.68
12/2/2010 14:00	18624	1_60	2010	336	1400	0.5741515	225.2735	60.28782	4.137	25.69	5.152	24.03	3.817	3.398	-0.4189026	0	42.89	41.48
12/2/2010 15:00	18625	1_60	2010	336	1500	1.424976	280.2368	23.27489	4.417	22.19	5.175	21.5	5.275	4.882	-0.3933323	0	42.06	42.99
12/2/2010 16:00	18626	1_60	2010	336	1600	1.049907	244.5036	27.2852	2.061	13.74	4.057	12.46	5.447	5.143	-0.3042696	0	41.58	43.5
12/2/2010 17:00	18627	1_60	2010	336	1700	0.9092928	215.3173	11.88608	0.104	1.434	0.022	0.324	2.929	4.498	1.569208	0	52.27	38.27
12/2/2010 18:00	18628	1_60	2010	336	1800	1.268985	93.31799	24.62622	0.12	2.615	-0.063	1.689	-0.747	2.16	2.906734	0	67.6	31.47
12/2/2010 19:00	18629	1_60	2010	336	1900	1.382058	130.4859	9.555714	0	0.022	-0.001	0.045	-1.217	2.471	3.688455	0	68.57	31
12/2/2010 20:00	18630	1_60	2010	336	2000	1.481204	142.1618	28.81929	0.017	3.828	-0.102	2.938	-1.61	1.143	2.753048	0	72.34	29.77
12/2/2010 21:00	18631	1_60	2010	336	2100	1.147614	135.9833	37.65296	0.013	0.317	0.003	0.124	-1.7	0.732	2.432259	0	75.64	29.09
12/2/2010 22:00	18632	1_60	2010	336	2200	0.7827036	193.2442	35.83363	-0.004	0.124	-0.018	0.36	-0.517	1.182	1.699054	0	72.19	31.22
12/2/2010 23:00	18633	1_60	2010	336	2300	0.7436249	249.3152	24.0375	0	0.015	0	0.033	-0.096	1.043	1.13888	0	67.42	32.36

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
11/30/2010 0:00	18562	1_60	2010	334	0	24.84	0.031	IL	2.765	40.05	2326	13.82
11/30/2010 1:00	18563	1_60	2010	334	100	24.85	0.037	IL	3.55	97	59	13.83
11/30/2010 2:00	18564	1_60	2010	334	200	24.86	0.024	IL	3.721	97.2	100	13.87
11/30/2010 3:00	18565	1_60	2010	334	300	24.87	0.024	IL	3.413	106.2	257	13.92
11/30/2010 4:00	18566	1_60	2010	334	400	24.88	0.056	IL	4.437	139.7	318	13.94
11/30/2010 5:00	18567	1_60	2010	334	500	24.89	0.041	IL	3.209	106.8	424	13.96
11/30/2010 6:00	18568	1_60	2010	334	600	24.9	0.023	IL	3.277	147	539	13.97
11/30/2010 7:00	18569	1_60	2010	334	700	24.92	0.131	IL	2.765	106.4	659	13.98
11/30/2010 8:00	18570	1_60	2010	334	800	24.94	41.53	IL	3.755	111.4	717	14
11/30/2010 9:00	18571	1_60	2010	334	900	24.95	195.6	IL	3.277	87.7	857	13.95
11/30/2010 10:00	18572	1_60	2010	334	1000	24.96	350.4	IL	3.584	103.6	900	13.84
11/30/2010 11:00	18573	1_60	2010	334	1100	24.95	467.7	IL	2.219	335.4	1057	13.71
11/30/2010 12:00	18574	1_60	2010	334	1200	24.93	532.1	IL	3.447	258.3	1139	13.6
11/30/2010 13:00	18575	1_60	2010	334	1300	24.91	536	IL	2.867	318.1	1225	13.53
11/30/2010 14:00	18576	1_60	2010	334	1400	24.9	481.9	IL	2.423	279.7	1321	13.48
11/30/2010 15:00	18577	1_60	2010	334	1500	24.89	370.3	IL	2.901	208.4	1436	13.44
11/30/2010 16:00	18578	1_60	2010	334	1600	24.89	210.7	IL	2.56	196.3	1507	13.44
11/30/2010 17:00	18579	1_60	2010	334	1700	24.89	31.62	IL	1.809	234.2	1620	13.48
11/30/2010 18:00	18580	1_60	2010	334	1800	24.89	0.342	IL	2.15	93.8	1756	13.59
11/30/2010 19:00	18581	1_60	2010	334	1900	24.89	0.016	IL	3.379	157.7	1846	13.69
11/30/2010 20:00	18582	1_60	2010	334	2000	24.9	0.03	IL	3.106	95.8	1945	13.72
11/30/2010 21:00	18583	1_60	2010	334	2100	24.9	0.028	IL	2.15	128	2048	13.72
11/30/2010 22:00	18584	1_60	2010	334	2200	24.9	0.03	IL	2.697	100.7	2140	13.71
11/30/2010 23:00	18585	1_60	2010	334	2300	24.9	0.036	IL	3.004	88.9	2201	13.73
12/1/2010 0:00	18586	1_60	2010	335	0	24.9	0.053	IL	1.536	145.8	2339	13.77
12/1/2010 1:00	18587	1_60	2010	335	100	24.89	0.027	IL	2.697	126.1	7	13.8
12/1/2010 2:00	18588	1_60	2010	335	200	24.89	0.033	IL	2.935	110.8	111	13.81
12/1/2010 3:00	18589	1_60	2010	335	300	24.88	0.026	IL	2.014	213.4	231	13.8
12/1/2010 4:00	18590	1_60	2010	335	400	24.87	0.058	IL	3.413	58.9	314	13.77
12/1/2010 5:00	18591	1_60	2010	335	500	24.86	0.061	IL	3.209	338	400	13.77
12/1/2010 6:00	18592	1_60	2010	335	600	24.85	0.054	IL	2.56	164.5	551	13.75
12/1/2010 7:00	18593	1_60	2010	335	700	24.86	0.05	IL	2.867	42.91	610	13.74
12/1/2010 8:00	18594	1_60	2010	335	800	24.86	10.47	IL	2.492	54.22	711	13.72
12/1/2010 9:00	18595	1_60	2010	335	900	24.87	126.3	IL	2.15	174.5	807	13.69
12/1/2010 10:00	18596	1_60	2010	335	1000	24.88	156.1	IL	2.253	343.7	930	13.63
12/1/2010 11:00	18597	1_60	2010	335	1100	24.86	229	IL	1.775	149.9	1033	13.58
12/1/2010 12:00	18598	1_60	2010	335	1200	24.83	477.9	IL	2.935	138.3	1144	13.5
12/1/2010 13:00	18599	1_60	2010	335	1300	24.81	556.6	IL	3.413	266.5	1234	13.41
12/1/2010 14:00	18600	1_60	2010	335	1400	24.79	466.9	IL	3.14	265.1	1308	13.36
12/1/2010 15:00	18601	1_60	2010	335	1500	24.78	356.3	IL	3.038	281.2	1421	13.34
12/1/2010 16:00	18602	1_60	2010	335	1600	24.77	206	IL	2.833	200.7	1558	13.34
12/1/2010 17:00	18603	1_60	2010	335	1700	24.77	35.32	IL	2.765	207.8	1600	13.37
12/1/2010 18:00	18604	1_60	2010	335	1800	24.77	0.755	IL	2.867	149.7	1742	13.47
12/1/2010 19:00	18605	1_60	2010	335	1900	24.77	0.033	IL	2.765	102.4	1852	13.56
12/1/2010 20:00	18606	1_60	2010	335	2000	24.79	0.037	IL	2.628	120.5	1902	13.62
12/1/2010 21:00	18607	1_60	2010	335	2100	24.78	0.051	IL	1.877	117.7	2048	13.66
12/1/2010 22:00	18608	1_60	2010	335	2200	24.79	0.019	IL	2.458	107.8	2123	13.69
12/1/2010 23:00	18609	1_60	2010	335	2300	24.79	0.029	IL	1.468	343.3	2253	13.71
12/2/2010 0:00	18610	1_60	2010	336	0	24.8	0.053	IL	2.765	54.57	2313	13.73
12/2/2010 1:00	18611	1_60	2010	336	100	24.79	0.061	IL	1.673	55.45	9	13.75
12/2/2010 2:00	18612	1_60	2010	336	200	24.8	0.05	IL	3.447	113.1	156	13.77
12/2/2010 3:00	18613	1_60	2010	336	300	24.8	0.049	IL	2.935	122.1	201	13.78
12/2/2010 4:00	18614	1_60	2010	336	400	24.81	0.047	IL	2.833	89.6	302	13.79
12/2/2010 5:00	18615	1_60	2010	336	500	24.81	0.03	IL	2.014	56.35	402	13.8
12/2/2010 6:00	18616	1_60	2010	336	600	24.82	0.04	IL	2.219	78.71	524	13.81
12/2/2010 7:00	18617	1_60	2010	336	700	24.83	0.126	IL	1.502	121.5	636	13.82
12/2/2010 8:00	18618	1_60	2010	336	800	24.83	28.39	IL	1.058	108.6	700	13.82
12/2/2010 9:00	18619	1_60	2010	336	900	24.85	90.6	IL	1.297	22.99	900	13.79
12/2/2010 10:00	18620	1_60	2010	336	1000	24.85	178.2	IL	1.775	148.5	928	13.73
12/2/2010 11:00	18621	1_60	2010	336	1100	24.85	264.8	IL	3.038	310.1	1034	13.64
12/2/2010 12:00	18622	1_60	2010	336	1200	24.82	346.7	IL	2.116	291.9	1117	13.56
12/2/2010 13:00	18623	1_60	2010	336	1300	24.79	415.4	IL	2.219	251	1246	13.49
12/2/2010 14:00	18624	1_60	2010	336	1400	24.75	473.8	IL	1.98	240.3	1301	13.4
12/2/2010 15:00	18625	1_60	2010	336	1500	24.74	350.6	IL	2.662	312.3	1404	13.35
12/2/2010 16:00	18626	1_60	2010	336	1600	24.73	172.6	IL	2.492	255.3	1512	13.34
12/2/2010 17:00	18627	1_60	2010	336	1700	24.73	28.52	IL	1.502	219.5	1648	13.37
12/2/2010 18:00	18628	1_60	2010	336	1800	24.74	0.353	IL	3.55	25.3	1703	13.46
12/2/2010 19:00	18629	1_60	2010	336	1900	24.74	0.045	IL	2.014	103.9	1858	13.54
12/2/2010 20:00	18630	1_60	2010	336	2000	24.73	0.039	IL	2.697	86.8	1938	13.59
12/2/2010 21:00	18631	1_60	2010	336	2100	24.74	0.038	IL	2.219	111.8	2046	13.61
12/2/2010 22:00	18632	1_60	2010	336	2200	24.74	0.051	IL	2.116	128	2142	13.6
12/2/2010 23:00	18633	1_60	2010	336	2300	24.73	0.053	IL	1.946	273.9	2234	13.59

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/3/2010 0:00	18634	1_60	2010	337	0	0.6114068	268.5238	54.33529	0.002	0.147	0.001	0.031	-1.174	-0.025	1.149614	0	74.05	30.02
12/3/2010 1:00	18635	1_60	2010	337	100	0.4869677	242.4373	30.66181	0	0	0	0	-3.311	-1.111	2.199879	0	80.2	26.57
12/3/2010 2:00	18636	1_60	2010	337	200	1.171701	132.2129	17.91765	0.015	0.684	0.04	0.793	-3.698	-1.577	2.12164	0	83.9	25.79
12/3/2010 3:00	18637	1_60	2010	337	300	0.9039122	212.6693	39.46622	0.567	3.927	0.893	6.8	-2.282	-0.953	1.328679	0	81	27.84
12/3/2010 4:00	18638	1_60	2010	337	400	1.549653	79.33244	36.29256	-0.009	0.642	-0.015	0.351	-3.388	-1.163	2.224658	0	82.7	26.49
12/3/2010 5:00	18639	1_60	2010	337	500	1.224267	157.1632	25.96807	-0.007	1.424	-0.076	1.51	-4.878	-3.858	1.019694	0	89.7	23.64
12/3/2010 6:00	18640	1_60	2010	337	600	1.679126	143.0386	14.70218	0.003	0.349	0.008	0.228	-4.48	-2.639	1.841286	0	89.2	24.33
12/3/2010 7:00	18641	1_60	2010	337	700	1.720587	121.4957	33.89677	0.023	0.989	0.206	1.732	-3.546	-2.062	1.484492	0	87	25.86
12/3/2010 8:00	18642	1_60	2010	337	800	1.85518	202.8923	22.72287	0.16	1.762	0.103	2.684	-2.595	-1.259	1.335898	0	87.1	27.43
12/3/2010 9:00	18643	1_60	2010	337	900	1.357931	326.8379	28.1182	0.067	3.988	0.29	4.367	-1.688	-1.3	0.3881333	0	82.6	29.28
12/3/2010 10:00	18644	1_60	2010	337	1000	0.769304	277.9426	44.98857	0.766	4.146	1.311	4.317	-0.771	-0.916	-0.1448728	0	79.54	31.33
12/3/2010 11:00	18645	1_60	2010	337	1100	1.150882	289.1998	29.20718	0.846	9.8	1.126	8.44	0.589	0.381	-0.2074188	0	69.92	33.95
12/3/2010 12:00	18646	1_60	2010	337	1200	1.583269	297.9788	31.74706	2.332	11.59	2.278	11.12	1.696	1.439	-0.2567553	0	64.35	35.68
12/3/2010 13:00	18647	1_60	2010	337	1300	0.9352807	78.30962	32.59666	2.581	10.92	2.136	10.21	3.467	3.219	-0.2480186	0	56.59	39.28
12/3/2010 14:00	18648	1_60	2010	337	1400	0.8591603	314.8529	43.53939	0.905	10.6	1.369	11.01	5.13	4.938	-0.191906	0	51.34	42.56
12/3/2010 15:00	18649	1_60	2010	337	1500	0.7734869	322.7706	36.2197	0.567	15.52	0.715	13.97	7.336	7.091	-0.245017	0	43.26	47.13
12/3/2010 16:00	18650	1_60	2010	337	1600	0.9150554	251.7903	51.49364	1.197	8.61	1.743	7.223	8.63	8.6	-0.02956108	0	40.24	48.54
12/3/2010 17:00	18651	1_60	2010	337	1700	1.043369	194.6854	36.64085	-0.117	2.599	0.466	3.28	7.136	8.23	1.092545	0	45.93	45.25
12/3/2010 18:00	18652	1_60	2010	337	1800	2.210611	108.5842	12.81253	0.239	3.105	0.223	3.431	5.571	6.927	1.355916	0	51.28	42.36
12/3/2010 19:00	18653	1_60	2010	337	1900	2.138471	114.9618	26.28812	1.191	7.689	1.269	7.923	5.457	6.951	1.494071	0	48.27	42.22
12/3/2010 20:00	18654	1_60	2010	337	2000	1.709485	137.9723	42.58588	-0.042	2.655	-0.358	3.476	2.43	5.367	2.936692	0	57.07	36.94
12/3/2010 21:00	18655	1_60	2010	337	2100	1.432905	150.2133	36.43948	0.026	1.024	-0.039	1.024	1.18	4.656	3.475981	0	61.02	34.74
12/3/2010 22:00	18656	1_60	2010	337	2200	0.9018915	97.52032	50.88002	0.016	1.8	0.309	2.898	0.756	3.591	2.834963	0	63.09	33.82
12/3/2010 23:00	18657	1_60	2010	337	2300	1.058492	131.727	17.36642	0.127	1.409	0.022	0.434	0.709	3.111	2.40151	0	65.82	33.58
12/4/2010 0:00	18658	1_60	2010	338	0	1.470341	161.4908	33.70934	0.086	3.392	-0.02	2.401	-0.627	1.79	2.416754	0	70.12	31.61
12/4/2010 1:00	18659	1_60	2010	338	100	0.9933359	142.9342	18.15805	0.002	0.259	0.001	0.127	-0.337	2.474	2.810925	0	70.3	32.09
12/4/2010 2:00	18660	1_60	2010	338	200	0.9054965	239.7783	22.85102	-0.003	0.09	0.016	0.221	-0.105	1.912	2.016709	0	71.84	32.06
12/4/2010 3:00	18661	1_60	2010	338	300	0.9467995	290.7628	57.5295	-0.254	2.149	-0.079	1.32	-0.533	0.466	0.9993932	0	74.3	31.43
12/4/2010 4:00	18662	1_60	2010	338	400	0.9450374	308.3492	52.52179	-0.002	0.295	0.02	0.38	-0.153	0.871	1.024156	0	75.59	31.95
12/4/2010 5:00	18663	1_60	2010	338	500	1.512806	129.7564	22.37315	0.181	1.519	0.254	1.357	-0.421	0.752	1.173201	0	80.2	31.5
12/4/2010 6:00	18664	1_60	2010	338	600	1.473701	145.5906	51.49131	0	1.084	0.025	0.533	-0.732	0.408	1.139489	0	80.6	31.1
12/4/2010 7:00	18665	1_60	2010	338	700	1.75855	268.2078	26.256	-0.193	3.903	-0.336	2.69	-2.628	-1.5	1.127503	0	87	27.7
12/4/2010 8:00	18666	1_60	2010	338	800	1.447874	108.0184	18.60514	0.005	0.199	0.002	0.174	-2.437	-0.674	1.762377	0	85.3	27.96
12/4/2010 9:00	18667	1_60	2010	338	900	0.8035846	1.864232	28.91411	0.024	1.174	-0.007	0.416	-1.238	-0.205	1.033531	0	80.4	30.75
12/4/2010 10:00	18668	1_60	2010	338	1000	0.8262489	174.5657	37.29979	0.679	4.043	0.483	2.453	1.171	0.97	-0.2010117	0	70.59	34.53
12/4/2010 11:00	18669	1_60	2010	338	1100	0.7906698	78.82795	39.18633	3.174	15.1	1.386	14.13	3.68	3.388	-0.2913076	0	53.51	40.41
12/4/2010 12:00	18670	1_60	2010	338	1200	1.357281	309.4028	24.7516	-0.466	19.59	-1.031	20.58	6.018	5.735	-0.2834294	0	43.99	44.57
12/4/2010 13:00	18671	1_60	2010	338	1300	0.8962261	300.7833	48.37295	2.98	22.66	2.622	21.21	7.487	7.176	-0.3111791	0	37.2	47.52
12/4/2010 14:00	18672	1_60	2010	338	1400	0.7696766	18.58563	42.64926	1.858	15.51	-0.174	12.72	8.8	8.59	-0.2082907	0	35.72	49.4
12/4/2010 15:00	18673	1_60	2010	338	1500	1.078866	300.1356	18.48001	0.405	3.439	0.187	2.559	8.68	8.58	-0.1009183	0	37.45	48.33
12/4/2010 16:00	18674	1_60	2010	338	1600	1.06973	286.7878	14.24636	0.009	0.29	0.001	0.276	7.064	7.196	0.1328548	0	48.39	45.21
12/4/2010 17:00	18675	1_60	2010	338	1700	0.9421563	289.0146	37.84652	0.009	0.367	0.009	0.283	5.645	6.352	0.7069775	0	53.4	42.58
12/4/2010 18:00	18676	1_60	2010	338	1800	0.9682149	125.9458	26.4769	0	0.017	0	0.012	3.348	6.293	2.945251	0	59.88	38.6
12/4/2010 19:00	18677	1_60	2010	338	1900	1.33114	130.8909	24.00787	0	0.028	0	0.025	2.863	5.485	2.621302	0	63.61	37.41
12/4/2010 20:00	18678	1_60	2010	338	2000	1.551185	147.7009	40.04045	0.227	3.773	0.262	3.841	2.155	4.542	2.387755	0	67.37	36.34
12/4/2010 21:00	18679	1_60	2010	338	2100	1.677991	120.5288	23.63892	0.066	0.971	0.55	2.853	1.79	3.548	1.758621	0	68.86	35.58
12/4/2010 22:00	18680	1_60	2010	338	2200	1.826296	265.301	32.26711	0.095	3.15	-0.069	3.46	1.346	2.598	1.251539	0	73.65	34.76
12/4/2010 23:00	18681	1_60	2010	338	2300	1.753402	111.6218	20.69011	-0.002	0.691	0.189	1.634	1.106	2.818	1.71174	0	76.32	34.25
12/5/2010 0:00	18682	1_60	2010	339	0	1.668666	133.9225	54.54621	0.39	3.691	0.62	5.714	1.639	2.992	1.352374	0	73.65	35.19
12/5/2010 1:00	18683	1_60	2010	339	100	4.644814	134.9282	16.11091	8.89	24.08	23.84	27.22	2.969	4.164	1.195834	0	63.79	37.51
12/5/2010 2:00	18684	1_60	2010	339	200	2.685911	323.3678	30.3363	3.48	11.39	1.827	11.53	2.248	2.59	0.3421891	0	67.24	36.49
12/5/2010 3:00	18685	1_60	2010	339	300	1.467665	233.812	40.81743	-0.023	2.608	0.637	2.735	1.449	2.35	0.9010062	0	73.41	34.8
12/5/2010 4:00	18686	1_60	2010	339	400	1.746629	120.7413	12.38056	-0.032	1.042	0.011	0.299	1.096	2.043	0.9473727	0	73.74	34.3
12/5/2010 5:00	18687	1_60	2010	339	500	1.383558	120.1416	46.16027	0.104	2.594	0.035	2.48	0.892	2.035	1.143141	0	74.8	33.86
12/5/2010 6:00	18688	1_60	2010	339	600	1.172924	263.6365	25.71844	0.139	2.759	0.001	1.939	0.239	2.055	1.815404	0	76.28	32.73
12/5/2010 7:00	18689	1_60	2010	339	700	1.7561	118.9146	12.77281	0.166	1.926	-0.071	1.769	-0.327	1.207	1.533493	0	80.6	31.77
12/5/2010 8:00	18690	1_60	2010	339	800	1.354596	310.2318	33.36181	0.17	2.25	0.061	0.874	0.039	1.162	1.122972	0	79.79	32.27
12/5/2010 9:00	18691	1_60	2010	339	900	0.7414918	237.573	41.72826	-0.109	2.642	-0.023	1.98	0.424	0.612	0.1882616	0	81.6	33.09
12/5/2010 10:00	18692	1_60	2010	339	1000	0.6527125	130.6638	31.74712	0.58	5.245	0.237	3.963	2.973	2.757	-0.2159317	0	66.5	38.36
12/5/2010 11:00	18693	1_60	2010	339	1100	0.6728211	344.9097	51.67546	2.553	13.58	1.54	11.31	5.006	4.829	-0.1770262	0	55.01	42.65
12/5/2010 12:00	18694	1_60	2010	339	1200	1.001099	305.0072	26.68787	0.395	21.43	0.481	20.3	6.477	6.125	-0.3522628	0	47.34	45.47
12/5/2010 13:00	18695	1_60	2010	339	1300	0.9700106	302.7001	42.89156	2.587	20.05	1.682	17.53	7.982	7.604	-0.3786277	0	42.02	48.12
12/5/2010 14:00	18696	1_60	2010	339	1400	0.8374576	341.1904	57.62524	3.143	19.14	1.64	16.5	10.29	9.89	-0.4042046	0	34.56	52.63
12/5/2010 15:00	18697	1_60	2010	339	1500	1.226663	270.4792	28.58233	1.992	20.12	1.966	19.52	11.47	11.11	-0.3575355	0	33.06	53.93
12/5/2010 16:00	18698	1_60	2010	339	1600	1.1256	168.2173	16.44345	0.206	5.268	1.558	5.353	11.55	11.19	-0.3585343	0	31.99	53.27
12/5/2010 17:00	18699	1_60	2010	339	1700	1.214798	212.2281	26.31021	-0.071	1.208	0.19	1.75	8.09	9.83	1.738857	0	38.36	47.18
12/5/2010 18:00	18700	1_60	2010	339	1800	1.129356	130.7338	17.16757	0.001	0.356	0.311	1.635	4.878	7.486	2.607695	0	48.02	41.36
12/5/2010 19:00	18701	1_60	2010	339	1900	1.754623	167.1551	33.12004	0.038	0.886	0.248	1.715	3.428	6.35	2.921635	0	55.96	38.81
12/5/2010 20:00	18702	1_60	2010	339	2000	2.12471	138.3405	10.70119	-0.065	1.116	0.221	1.177	3.308	6.904	3.596635	0	58.69	38.42
12/5/2010 21:00	18703	1_60	2010	339	2100	1.64908	159.971	33.51236	-0.063	1.309	-0.002	0.547	1.522	3.584	2.062112	0	66.09	35.47
12/5/2010 22:00	18704	1_60	2010	339	2200	1.641721	127.5885	18.39202	0.175	2.495	0.224	2.369	1.402	3.596	2.193775	0	66.29	35.02
12/5/2010 23:00	18705	1_60	2010	339	2300	1.30821	167.6255	29.21278	0.191	7.374	0.268	5.84	0.106	2.531	2.425332	0	72.5	32.6

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/3/2010 0:00	18634	1_60	2010	337	0	24.73	0.042	IL	1.331	241.2	2310	13.6
12/3/2010 1:00	18635	1_60	2010	337	100	24.72	0.055	IL	1.536	233.1	40	13.63
12/3/2010 2:00	18636	1_60	2010	337	200	24.7	0.064	IL	2.526	97	110	13.65
12/3/2010 3:00	18637	1_60	2010	337	300	24.71	0.063	IL	3.004	22.19	215	13.65
12/3/2010 4:00	18638	1_60	2010	337	400	24.69	0.065	IL	3.447	83.3	314	13.65
12/3/2010 5:00	18639	1_60	2010	337	500	24.69	0.063	IL	2.662	322.3	400	13.66
12/3/2010 6:00	18640	1_60	2010	337	600	24.68	0.057	IL	3.174	115.1	548	13.67
12/3/2010 7:00	18641	1_60	2010	337	700	24.69	0.062	IL	3.174	114.7	601	13.67
12/3/2010 8:00	18642	1_60	2010	337	800	24.7	9.15	IL	4.062	231.1	720	13.65
12/3/2010 9:00	18643	1_60	2010	337	900	24.72	56.54	IL	3.277	274.8	821	13.62
12/3/2010 10:00	18644	1_60	2010	337	1000	24.71	114.9	IL	2.287	219.7	940	13.59
12/3/2010 11:00	18645	1_60	2010	337	1100	24.69	175	IL	2.97	294.1	1041	13.54
12/3/2010 12:00	18646	1_60	2010	337	1200	24.68	188.7	IL	3.686	301.8	1146	13.5
12/3/2010 13:00	18647	1_60	2010	337	1300	24.66	253.3	IL	2.116	45.34	1214	13.47
12/3/2010 14:00	18648	1_60	2010	337	1400	24.65	252.5	IL	2.628	297.5	1318	13.42
12/3/2010 15:00	18649	1_60	2010	337	1500	24.66	346.9	IL	2.253	248.7	1451	13.37
12/3/2010 16:00	18650	1_60	2010	337	1600	24.66	138.1	IL	2.458	245.3	1508	13.31
12/3/2010 17:00	18651	1_60	2010	337	1700	24.67	18.34	IL	3.243	177	1647	13.32
12/3/2010 18:00	18652	1_60	2010	337	1800	24.67	0.12	IL	3.618	84.1	1757	13.36
12/3/2010 19:00	18653	1_60	2010	337	1900	24.68	0.051	IL	4.198	79.55	1802	13.39
12/3/2010 20:00	18654	1_60	2010	337	2000	24.7	0.05	IL	2.697	114.1	1906	13.44
12/3/2010 21:00	18655	1_60	2010	337	2100	24.71	0.014	IL	3.14	93.9	2041	13.49
12/3/2010 22:00	18656	1_60	2010	337	2200	24.72	0.045	IL	2.355	119.1	2121	13.53
12/3/2010 23:00	18657	1_60	2010	337	2300	24.72	0.063	IL	1.843	130.8	2218	13.55
12/4/2010 0:00	18658	1_60	2010	338	0	24.72	0.047	IL	2.526	122.4	2344	13.57
12/4/2010 1:00	18659	1_60	2010	338	100	24.72	0.049	IL	1.911	118.9	6	13.59
12/4/2010 2:00	18660	1_60	2010	338	200	24.71	0.052	IL	1.775	229.2	126	13.59
12/4/2010 3:00	18661	1_60	2010	338	300	24.72	0.066	IL	1.741	237.6	255	13.57
12/4/2010 4:00	18662	1_60	2010	338	400	24.73	0.064	IL	2.287	261.3	324	13.56
12/4/2010 5:00	18663	1_60	2010	338	500	24.75	0.062	IL	3.243	91.4	427	13.55
12/4/2010 6:00	18664	1_60	2010	338	600	24.74	0.063	IL	3.345	286.5	550	13.55
12/4/2010 7:00	18665	1_60	2010	338	700	24.76	0.078	IL	3.516	314.2	607	13.58
12/4/2010 8:00	18666	1_60	2010	338	800	24.76	10.8	IL	2.492	136.8	734	13.62
12/4/2010 9:00	18667	1_60	2010	338	900	24.78	106.3	IL	1.843	102.3	800	13.62
12/4/2010 10:00	18668	1_60	2010	338	1000	24.77	144.4	IL	1.638	270.4	901	13.57
12/4/2010 11:00	18669	1_60	2010	338	1100	24.75	365.3	IL	1.946	78.59	1013	13.51
12/4/2010 12:00	18670	1_60	2010	338	1200	24.74	392.5	IL	3.004	289.3	1158	13.41
12/4/2010 13:00	18671	1_60	2010	338	1300	24.72	446.5	IL	2.901	297.4	1200	13.34
12/4/2010 14:00	18672	1_60	2010	338	1400	24.69	273.3	IL	1.57	71.45	1313	13.28
12/4/2010 15:00	18673	1_60	2010	338	1500	24.69	125.7	IL	1.877	318	1448	13.28
12/4/2010 16:00	18674	1_60	2010	338	1600	24.69	71.24	IL	1.911	288.3	1526	13.3
12/4/2010 17:00	18675	1_60	2010	338	1700	24.7	19.29	IL	1.98	275.5	1613	13.34
12/4/2010 18:00	18676	1_60	2010	338	1800	24.71	0.208	IL	1.57	103.8	1744	13.39
12/4/2010 19:00	18677	1_60	2010	338	1900	24.72	0.058	IL	2.662	212.1	1845	13.44
12/4/2010 20:00	18678	1_60	2010	338	2000	24.73	0.043	IL	3.994	49.05	1901	13.47
12/4/2010 21:00	18679	1_60	2010	338	2100	24.72	0.016	IL	3.106	132.5	2042	13.49
12/4/2010 22:00	18680	1_60	2010	338	2200	24.74	0.018	IL	4.369	311.5	2112	13.5
12/4/2010 23:00	18681	1_60	2010	338	2300	24.75	0.031	IL	2.867	19.56	2204	13.51
12/5/2010 0:00	18682	1_60	2010	339	0	24.75	0.033	IL	5.325	242.5	2341	13.51
12/5/2010 1:00	18683	1_60	2010	339	100	24.72	0.011	IL	9.32	136.5	48	13.51
12/5/2010 2:00	18684	1_60	2010	339	200	24.73	0.037	IL	6.144	117	100	13.49
12/5/2010 3:00	18685	1_60	2010	339	300	24.72	0.03	IL	2.731	262.6	211	13.5
12/5/2010 4:00	18686	1_60	2010	339	400	24.73	0.017	IL	2.799	113.2	308	13.51
12/5/2010 5:00	18687	1_60	2010	339	500	24.73	0.03	IL	2.253	61.15	427	13.52
12/5/2010 6:00	18688	1_60	2010	339	600	24.75	0.051	IL	2.833	100.5	502	13.54
12/5/2010 7:00	18689	1_60	2010	339	700	24.75	0.07	IL	3.174	63.17	602	13.55
12/5/2010 8:00	18690	1_60	2010	339	800	24.78	14.01	IL	3.106	301.2	737	13.56
12/5/2010 9:00	18691	1_60	2010	339	900	24.8	79.21	IL	1.638	291.9	802	13.55
12/5/2010 10:00	18692	1_60	2010	339	1000	24.82	193.5	IL	1.707	229.2	900	13.52
12/5/2010 11:00	18693	1_60	2010	339	1100	24.82	283.4	IL	2.116	318.4	1056	13.45
12/5/2010 12:00	18694	1_60	2010	339	1200	24.8	391	IL	2.389	338.1	1129	13.39
12/5/2010 13:00	18695	1_60	2010	339	1300	24.78	416.1	IL	2.628	273.5	1235	13.32
12/5/2010 14:00	18696	1_60	2010	339	1400	24.77	466.3	IL	2.628	324.2	1344	13.26
12/5/2010 15:00	18697	1_60	2010	339	1500	24.77	313.3	IL	2.628	295.9	1406	13.21
12/5/2010 16:00	18698	1_60	2010	339	1600	24.77	145.8	IL	2.458	192.8	1502	13.22
12/5/2010 17:00	18699	1_60	2010	339	1700	24.78	26.89	IL	2.355	164.2	1618	13.26
12/5/2010 18:00	18700	1_60	2010	339	1800	24.8	0.232	IL	2.458	119	1745	13.34
12/5/2010 19:00	18701	1_60	2010	339	1900	24.8	0.044	IL	3.789	99.2	1842	13.41
12/5/2010 20:00	18702	1_60	2010	339	2000	24.8	0.058	IL	2.97	120.2	1900	13.46
12/5/2010 21:00	18703	1_60	2010	339	2100	24.81	0.028	IL	2.731	116.5	2045	13.49
12/5/2010 22:00	18704	1_60	2010	339	2200	24.82	0.027	IL	2.867	98.4	2143	13.52
12/5/2010 23:00	18705	1_60	2010	339	2300	24.82	0.054	IL	2.458	235.2	2218	13.55

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/6/2010 0:00	18706	1_60	2010	340	0	0.9604176	113.9155	33.71491	0.001	0.064	-0.001	0.044	-0.504	1.712	2.21659	0	73.21	31.55
12/6/2010 1:00	18707	1_60	2010	340	100	1.414853	82.88341	29.36084	-0.024	2.779	-0.269	2.817	-1.652	0.938	2.59028	0	76.92	29.74
12/6/2010 2:00	18708	1_60	2010	340	200	1.612629	113.9214	7.340083	0.01	0.523	-0.002	0.1	-1.866	1.17	3.0364	0	77.84	29.28
12/6/2010 3:00	18709	1_60	2010	340	300	1.308155	142.1237	23.70714	-0.465	5.91	-0.089	4.995	-1.864	0.641	2.505048	0	77.7	29.21
12/6/2010 4:00	18710	1_60	2010	340	400	1.800953	5.544294	24.2413	0.901	8.98	-0.342	8.08	-2.531	-0.83	1.701159	0	80.3	27.98
12/6/2010 5:00	18711	1_60	2010	340	500	1.506324	225.3482	48.00337	-0.052	2.238	-0.293	3.107	-4	-2.434	1.565738	0	87.9	25.31
12/6/2010 6:00	18712	1_60	2010	340	600	2.57432	115.6508	10.25556	0.135	1.709	0.247	1.571	-4.374	-2.687	1.686336	0	89.8	24.44
12/6/2010 7:00	18713	1_60	2010	340	700	1.501553	118.5265	19.72056	0.008	2.057	0.268	1.743	-2.719	-1.285	1.433567	0	87.2	27.38
12/6/2010 8:00	18714	1_60	2010	340	800	1.106879	186.6098	56.54697	0.054	0.808	0.073	0.822	-1.934	-0.744	1.18993	0	86.9	28.68
12/6/2010 9:00	18715	1_60	2010	340	900	1.85076	290.0074	47.04808	0.03	6.221	0.117	7.277	-1.926	-2.042	-0.1152371	0	87.4	28.74
12/6/2010 10:00	18716	1_60	2010	340	1000	2.30854	9.861551	47.0788	1.746	12.64	5.322	14.21	-0.292	-0.461	-0.169078	0	83.4	31.79
12/6/2010 11:00	18717	1_60	2010	340	1100	2.755434	260.8931	24.31385	3.646	18.12	2.145	17.83	1.433	1.175	-0.2570912	0	75.19	35.06
12/6/2010 12:00	18718	1_60	2010	340	1200	2.400846	194.8948	23.68664	2.735	20.09	8.49	21.55	3.141	2.571	-0.5692509	0	70.22	37.98
12/6/2010 13:00	18719	1_60	2010	340	1300	2.359259	116.3247	17.26897	4.721	14.83	6.546	14.68	5.852	5.548	-0.3040281	0	60.07	42.72
12/6/2010 14:00	18720	1_60	2010	340	1400	2.247253	124.4963	36.69681	1.909	13.43	1.893	15.13	5.949	5.618	-0.3310371	0	59.57	43.06
12/6/2010 15:00	18721	1_60	2010	340	1500	1.612658	274.2076	25.05061	2.44	14.26	2.187	14.72	5.554	5.199	-0.3551198	0	59.67	42.6
12/6/2010 16:00	18722	1_60	2010	340	1600	2.964014	300.3052	9.465312	2.738	15.09	1.443	15.52	5.431	5.167	-0.2639541	0	60.5	42.2
12/6/2010 17:00	18723	1_60	2010	340	1700	1.943629	181.3871	19.74409	0.436	5.33	1.979	5.957	3.698	4.588	0.8894925	0	66.21	39.28
12/6/2010 18:00	18724	1_60	2010	340	1800	1.459323	146.6523	36.42496	0.094	2.035	0.024	1.761	1.739	3.57	1.831434	0	76.24	35.35
12/6/2010 19:00	18725	1_60	2010	340	1900	0.5477796	138.4652	43.68718	-0.021	0.882	0.001	0.076	1.169	3.788	2.619718	0	79.1	34.36
12/6/2010 20:00	18726	1_60	2010	340	2000	1.595473	95.57645	29.75554	-1.176	12.37	-0.915	12.36	0.882	3.364	2.481335	0	80.1	33.84
12/6/2010 21:00	18727	1_60	2010	340	2100	0.7659812	277.8836	41.43835	-0.14	2.428	0.007	2.457	1.72	3.528	1.808001	0	75.32	35.54
12/6/2010 22:00	18728	1_60	2010	340	2200	0.891953	111.4165	31.7561	0.003	0.182	-0.002	0.105	0.129	1.64	1.510852	0	82	32.66
12/6/2010 23:00	18729	1_60	2010	340	2300	1.34189	133.3289	22.75688	0.016	1.173	0.028	0.936	-0.682	1.216	1.897966	0	86.5	31.14
12/7/2010 0:00	18730	1_60	2010	341	0	1.410687	113.918	52.65813	0.167	3.77	0.08	2.647	-1.427	0.682	2.109673	0	88.7	30.02
12/7/2010 1:00	18731	1_60	2010	341	100	1.212896	182.6121	38.67189	0.097	2.095	0.09	2.415	-2.32	0.018	2.337652	0	90.8	28.39
12/7/2010 2:00	18732	1_60	2010	341	200	2.070631	40.35351	22.05161	0.142	2.101	-0.344	2.814	-3.613	-1.872	1.740259	0	93	25.99
12/7/2010 3:00	18733	1_60	2010	341	300	1.564692	118.8463	40.86121	0.206	2.862	1.148	5.375	-3.566	-1.838	1.72801	0	94.4	25.62
12/7/2010 4:00	18734	1_60	2010	341	400	1.883104	114.7794	30.42016	0.016	0.98	0.389	2.452	-3.578	-1.964	1.613719	0	92.8	26.03
12/7/2010 5:00	18735	1_60	2010	341	500	1.714313	343.5279	36.27078	0.016	4.433	-0.057	4.417	-3.957	-2.128	1.828414	0	93.2	25.42
12/7/2010 6:00	18736	1_60	2010	341	600	1.203453	225.6691	46.20391	-0.007	0.417	0.091	0.938	-5.283	-3.436	1.846787	0	96.2	22.96
12/7/2010 7:00	18737	1_60	2010	341	700	1.963721	118.6181	29.43839	0.09	3.67	0.175	4.548	-5.672	-3.814	1.85729	0	95.2	22.26
12/7/2010 8:00	18738	1_60	2010	341	800	2.136003	112.004	39.17658	0.047	1.273	0.027	1.171	-5.061	-3.136	1.925704	0	94.2	23.53
12/7/2010 9:00	18739	1_60	2010	341	900	0.3935008	312.4216	45.27007	0.929	4.79	0.642	3.625	-3.344	-3.242	0.102259	0	86.1	28.74
12/7/2010 10:00	18740	1_60	2010	341	1000	1.013474	323.209	35.18598	1.037	15.93	0.903	14.08	-0.075	-0.359	-0.2840771	0	81.3	34.16
12/7/2010 11:00	18741	1_60	2010	341	1100	1.172362	288.3273	34.69483	0.713	25.95	0.385	23.72	2.089	1.73	-0.3598847	0	72.12	37.73
12/7/2010 12:00	18742	1_60	2010	341	1200	1.996565	298.6348	21.50311	1.816	24.86	2.557	25.52	5.714	5.163	-0.5509609	0	56.71	43.76
12/7/2010 13:00	18743	1_60	2010	341	1300	4.409697	294.3763	13.97451	3.944	28.93	3.65	32.99	7.959	7.225	-0.7340404	0	45.05	46.65
12/7/2010 14:00	18744	1_60	2010	341	1400	3.368726	283.4796	20.54742	6.006	32.27	8.76	33.86	8.9	8.24	-0.6617324	0	37.78	48.47
12/7/2010 15:00	18745	1_60	2010	341	1500	3.132558	308.1416	20.04576	4.347	27.56	0.77	29.73	9.45	8.98	-0.4760002	0	33.9	49.57
12/7/2010 16:00	18746	1_60	2010	341	1600	2.87416	322.7626	17.18484	4.474	21.99	-1.265	23.61	9.33	9.02	-0.3119948	BA	33.63	49.64
12/7/2010 17:00	18747	1_60	2010	341	1700	2.701274	329.6848	23.49566	7.39	14.51	0.016	14.25	6.713	7.424	0.7115572	0	40.6	44.84
12/7/2010 18:00	18748	1_60	2010	341	1800	1.116635	290.0244	38.91941	0.008	8.11	0.453	7.858	4.762	6.363	1.600503	0	47.01	40.84
12/7/2010 19:00	18749	1_60	2010	341	1900	1.123272	211.0289	33.01844	-1.461	10.34	0.527	11.15	4.203	5.866	1.66291	0	48.48	40.11
12/7/2010 20:00	18750	1_60	2010	341	2000	1.231269	135.6051	21.29141	-0.053	0.852	0.007	0.275	-0.444	2.322	2.765659	0	67.43	32.07
12/7/2010 21:00	18751	1_60	2010	341	2100	2.250627	132.1988	16.25607	-0.004	0.96	0.008	0.595	-2.156	1.306	3.461282	0	76.07	28.59
12/7/2010 22:00	18752	1_60	2010	341	2200	2.82495	131.2744	9.757015	1.466	7.126	4.809	8.21	-1.88	1.098	2.977704	0	74.41	29.28
12/7/2010 23:00	18753	1_60	2010	341	2300	2.127185	155.9393	23.64019	0.284	4.72	2.899	7.63	-1.823	1.097	2.920782	0	74.54	29.21
12/8/2010 0:00	18754	1_60	2010	342	0	0.8019316	219.092	50.47853	0.012	0.847	0.004	1.15	-3.111	-1.201	1.909979	0	79.17	27.1
12/8/2010 1:00	18755	1_60	2010	342	100	1.829798	140.9513	15.84763	1.467	8.09	3.404	8.93	-2.621	-0.86	1.761718	0	77	28.04
12/8/2010 2:00	18756	1_60	2010	342	200	1.54982	118.7786	46.51289	0.457	4.119	0.915	4.729	-4.906	-2.847	2.058436	0	83.5	24.08
12/8/2010 3:00	18757	1_60	2010	342	300	1.896208	104.5178	13.61483	0.059	1.791	0.039	1.699	-4.626	-3.129	1.497195	0	83.2	24.02
12/8/2010 4:00	18758	1_60	2010	342	400	1.648464	53.87907	37.91223	-0.379	5.144	-0.462	5.019	-4.973	-3.618	1.355439	0	81.5	23.48
12/8/2010 5:00	18759	1_60	2010	342	500	1.435184	100.0727	22.62124	-0.134	2.443	-0.289	2.763	-5.928	-4.113	1.814944	0	85	22.02
12/8/2010 6:00	18760	1_60	2010	342	600	1.693744	107.8767	11.16793	-0.011	0.377	-0.001	0.175	-6.177	-4.21	1.967789	0	84.3	21.52
12/8/2010 7:00	18761	1_60	2010	342	700	1.141649	159.3669	34.51079	-0.003	0.084	0	0.04	-6.707	-4.068	2.639325	0	86.8	20.54
12/8/2010 8:00	18762	1_60	2010	342	800	1.148494	113.2659	37.73712	-0.003	0.091	0.001	0.05	-6.968	-4.926	2.041773	0	87.4	20.2
12/8/2010 9:00	18763	1_60	2010	342	900	0.7966672	197.5371	20.91303	0.602	6.079	1.115	5.545	-3.095	-2.982	0.1128875	0	76.39	28.29
12/8/2010 10:00	18764	1_60	2010	342	1000	0.9402271	256.4265	25.51504	-1.701	20.07	-0.089	17.57	-0.953	-1.258	-0.3053899	0	65.89	32.69
12/8/2010 11:00	18765	1_60	2010	342	1100	2.251907	297.916	16.95348	5.124	23.62	4.333	23.78	0.882	0.313	-0.5696541	0	59.83	34.78
12/8/2010 12:00	18766	1_60	2010	342	1200	1.720485	292.2846	26.24705	-0.398	25.9	-0.186	24.84	2.286	1.756	-0.5299612	0	52.3	37.53
12/8/2010 13:00	18767	1_60	2010	342	1300	0.9793391	302.7012	43.54686	5.06	26.9	5.051	24.79	4.08	3.622	-0.4581836	0	43.47	41.46
12/8/2010 14:00	18768	1_60	2010	342	1400	0.8081366	308.1847	44.52739	-0.217	23.06	-1.529	20.97	5.798	5.483	-0.3150957	0	37.93	44.35
12/8/2010 15:00	18769	1_60	2010	342	1500	0.7340097	166.2845	45.69866	1.207	20.14	2.267	18.99	7.814	7.298	-0.5155444	0	34.65	47.45
12/8/2010 16:00	18770	1_60	2010	342	1600	0.8102644	205.2213	35.15104	0.943	9.73	0.76	9.71	7.988	7.739	-0.2497201	0	36.35	47.44
12/8/2010 17:00	18771	1_60	2010	342	1700	1.715164	286.9194	9.861506	-0.031	1.394	0.026	0.573	5.141	5.692	0.5515359	0	47.58	42.01
12/8/2010 18:00	18772	1_60	2010	342	1800	1.392788	186.6228	36.27385	0.035	0.966	0.028	0.478	2.202	4.613	2.411	0	56.88	36.55
12/8/2010 19:00	18773	1_60	2010	342	1900	1.916372	125.0002	16.28529	0.137	3.543	0.01	2.953	0.949	3.398	2.449458	0	64.51	34.26
12/8/2010 20:00	18774	1_60	2010	342	2000	1.902412	128.0577	41.22269	0.07	2.196	0.666	2.93	1.027	3.136	2.108623	0	65.33	34.35
12/8/2010 21:00	18775	1_60	2010	342	2100	1.275789	181.0829	58.96011	0.284	2.681	0.314	2.591	0.77	2.505	1.734725	0	68.7	33.67
12/8/2010 22:00	18776	1_60	2010	342	2200	2.125927	127.0715	11.86632	-0.078	1.577	0.199	1.323	-0.971	1.962	2.932907	0	75.09	30.72
12/8/2010 23:00	18777	1_60	2010	342	2300	1.756181	122.9467	30.99311	0.483	2.945	0.061	1.819	-1.057	1.467	2.523927	0	74.9	30.54

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/6/2010 0:00	18706	1_60	2010	340	0	24.82	0.054	IL	2.082	112.2	2301	13.58
12/6/2010 1:00	18707	1_60	2010	340	100	24.82	0.038	IL	2.628	10.34	29	13.61
12/6/2010 2:00	18708	1_60	2010	340	200	24.83	0.041	IL	2.355	92.2	140	13.63
12/6/2010 3:00	18709	1_60	2010	340	300	24.83	0.061	IL	3.106	91.3	249	13.64
12/6/2010 4:00	18710	1_60	2010	340	400	24.83	0.064	IL	4.267	312.2	354	13.65
12/6/2010 5:00	18711	1_60	2010	340	500	24.82	0.059	IL	3.686	316.9	402	13.67
12/6/2010 6:00	18712	1_60	2010	340	600	24.83	0.043	IL	3.311	139.7	527	13.69
12/6/2010 7:00	18713	1_60	2010	340	700	24.83	0.082	IL	2.97	110.3	607	13.67
12/6/2010 8:00	18714	1_60	2010	340	800	24.82	10.64	IL	2.662	57.61	743	13.65
12/6/2010 9:00	18715	1_60	2010	340	900	24.83	39.45	IL	4.267	336.2	841	13.62
12/6/2010 10:00	18716	1_60	2010	340	1000	24.82	139.8	IL	5.12	173.9	910	13.59
12/6/2010 11:00	18717	1_60	2010	340	1100	24.84	155.3	IL	7.373	293.5	1040	13.54
12/6/2010 12:00	18718	1_60	2010	340	1200	24.8	362.5	IL	4.471	119.5	1152	13.5
12/6/2010 13:00	18719	1_60	2010	340	1300	24.77	166.5	IL	4.574	139.8	1208	13.44
12/6/2010 14:00	18720	1_60	2010	340	1400	24.75	182	IL	3.994	108.2	1301	13.4
12/6/2010 15:00	18721	1_60	2010	340	1500	24.73	204.9	IL	3.106	316.9	1400	13.38
12/6/2010 16:00	18722	1_60	2010	340	1600	24.74	146.8	IL	4.745	307.8	1513	13.37
12/6/2010 17:00	18723	1_60	2010	340	1700	24.73	33.53	IL	3.721	281.5	1601	13.39
12/6/2010 18:00	18724	1_60	2010	340	1800	24.74	0.409	IL	3.277	41.85	1722	13.44
12/6/2010 19:00	18725	1_60	2010	340	1900	24.74	0.013	IL	1.707	211.3	1851	13.5
12/6/2010 20:00	18726	1_60	2010	340	2000	24.76	0.027	IL	3.106	94.9	1925	13.54
12/6/2010 21:00	18727	1_60	2010	340	2100	24.76	0.047	IL	1.946	249.5	2024	13.56
12/6/2010 22:00	18728	1_60	2010	340	2200	24.77	0.063	IL	2.253	81.4	2145	13.57
12/6/2010 23:00	18729	1_60	2010	340	2300	24.77	0.058	IL	2.492	105.5	2251	13.59
12/7/2010 0:00	18730	1_60	2010	341	0	24.77	0.047	IL	2.56	190	2339	13.6
12/7/2010 1:00	18731	1_60	2010	341	100	24.77	0.048	IL	2.731	94.8	4	13.63
12/7/2010 2:00	18732	1_60	2010	341	200	24.79	0.058	IL	3.584	340	118	13.65
12/7/2010 3:00	18733	1_60	2010	341	300	24.79	0.06	IL	3.447	168.2	205	13.67
12/7/2010 4:00	18734	1_60	2010	341	400	24.79	0.059	IL	3.106	71.11	330	13.68
12/7/2010 5:00	18735	1_60	2010	341	500	24.8	0.064	IL	3.277	299.9	452	13.68
12/7/2010 6:00	18736	1_60	2010	341	600	24.82	0.047	IL	3.209	328.7	502	13.7
12/7/2010 7:00	18737	1_60	2010	341	700	24.84	0.069	IL	4.198	132.5	617	13.72
12/7/2010 8:00	18738	1_60	2010	341	800	24.86	20.39	IL	3.925	101.6	716	13.73
12/7/2010 9:00	18739	1_60	2010	341	900	24.87	154.5	IL	1.638	302.1	804	13.69
12/7/2010 10:00	18740	1_60	2010	341	1000	24.89	330.9	IL	2.765	274.4	951	13.6
12/7/2010 11:00	18741	1_60	2010	341	1100	24.88	438.3	IL	3.14	297	1013	13.51
12/7/2010 12:00	18742	1_60	2010	341	1200	24.86	507.3	IL	4.403	304.2	1149	13.41
12/7/2010 13:00	18743	1_60	2010	341	1300	24.84	514.5	IL	7.68	303.3	1232	13.34
12/7/2010 14:00	18744	1_60	2010	341	1400	24.83	464.9	IL	6.451	287.3	1319	13.29
12/7/2010 15:00	18745	1_60	2010	341	1500	24.83	359.8	IL	6.519	318.8	1414	13.27
12/7/2010 16:00	18746	1_60	2010	341	1600	24.83	214.2	IL	5.734	318.3	1513	13.21
12/7/2010 17:00	18747	1_60	2010	341	1700	24.85	35.7	IL	5.769	354.5	1617	13.28
12/7/2010 18:00	18748	1_60	2010	341	1800	24.86	0.481	IL	3.174	266.4	1753	13.38
12/7/2010 19:00	18749	1_60	2010	341	1900	24.87	0.044	IL	2.867	218.7	1802	13.45
12/7/2010 20:00	18750	1_60	2010	341	2000	24.87	0.027	IL	2.697	133.6	1941	13.51
12/7/2010 21:00	18751	1_60	2010	341	2100	24.88	0.048	IL	3.516	109.6	2021	13.58
12/7/2010 22:00	18752	1_60	2010	341	2200	24.89	0.036	IL	4.506	125.3	2158	13.62
12/7/2010 23:00	18753	1_60	2010	341	2300	24.9	0.054	IL	4.574	133.4	2200	13.64
12/8/2010 0:00	18754	1_60	2010	342	0	24.9	0.062	IL	1.809	247.1	2325	13.66
12/8/2010 1:00	18755	1_60	2010	342	100	24.9	0.059	IL	3.823	145.5	33	13.68
12/8/2010 2:00	18756	1_60	2010	342	200	24.9	0.062	IL	2.935	127.1	116	13.69
12/8/2010 3:00	18757	1_60	2010	342	300	24.89	0.032	IL	3.174	90	254	13.72
12/8/2010 4:00	18758	1_60	2010	342	400	24.89	0.034	IL	2.97	59.19	321	13.73
12/8/2010 5:00	18759	1_60	2010	342	500	24.89	0.048	IL	2.492	294.8	402	13.74
12/8/2010 6:00	18760	1_60	2010	342	600	24.88	0.048	IL	2.765	114.3	532	13.76
12/8/2010 7:00	18761	1_60	2010	342	700	24.89	0.086	IL	1.877	103.8	607	13.77
12/8/2010 8:00	18762	1_60	2010	342	800	24.89	35.68	IL	2.15	116.1	744	13.78
12/8/2010 9:00	18763	1_60	2010	342	900	24.9	163.9	IL	1.57	224	835	13.73
12/8/2010 10:00	18764	1_60	2010	342	1000	24.9	313.7	IL	2.15	279.2	955	13.63
12/8/2010 11:00	18765	1_60	2010	342	1100	24.88	429.2	IL	3.721	316.9	1044	13.53
12/8/2010 12:00	18766	1_60	2010	342	1200	24.85	461.8	IL	3.447	262.3	1150	13.46
12/8/2010 13:00	18767	1_60	2010	342	1300	24.82	467.1	IL	2.833	319.3	1226	13.4
12/8/2010 14:00	18768	1_60	2010	342	1400	24.79	387.5	IL	2.355	319	1314	13.34
12/8/2010 15:00	18769	1_60	2010	342	1500	24.77	332.4	IL	2.185	189.5	1434	13.3
12/8/2010 16:00	18770	1_60	2010	342	1600	24.75	143.6	IL	1.98	93.9	1512	13.29
12/8/2010 17:00	18771	1_60	2010	342	1700	24.75	27.71	IL	3.004	282.5	1654	13.32
12/8/2010 18:00	18772	1_60	2010	342	1800	24.75	0.184	IL	2.799	284.1	1707	13.39
12/8/2010 19:00	18773	1_60	2010	342	1900	24.73	0.052	IL	3.072	125.7	1839	13.46
12/8/2010 20:00	18774	1_60	2010	342	2000	24.74	0.04	IL	2.765	161.6	1901	13.51
12/8/2010 21:00	18775	1_60	2010	342	2100	24.75	0.022	IL	2.867	194.8	2006	13.53
12/8/2010 22:00	18776	1_60	2010	342	2200	24.75	0.042	IL	3.072	150.3	2147	13.56
12/8/2010 23:00	18777	1_60	2010	342	2300	24.76	0.062	IL	3.823	96.3	2245	13.59

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/9/2010 0:00	18778	1_60	2010	343	0	1.572947	138.8192	23.60916	0.041	3.152	0.117	4.029	-0.77	0.749	1.519054	0	75.19	30.98
12/9/2010 1:00	18779	1_60	2010	343	100	1.568482	13.17635	36.31819	0.101	2.049	-0.098	1.759	-1.604	-0.319	1.285563	0	77.94	29.63
12/9/2010 2:00	18780	1_60	2010	343	200	0.8762816	166.3114	28.8163	-0.001	0.047	0	0.052	-2.279	-0.755	1.523213	0	81.5	28.34
12/9/2010 3:00	18781	1_60	2010	343	300	1.735373	118.5471	9.679533	-0.005	0.197	0.001	0.019	-2.457	-0.62	1.83754	0	81.8	28.06
12/9/2010 4:00	18782	1_60	2010	343	400	1.626957	196.2455	40.28831	-0.012	1.138	0.02	0.824	-2.53	-0.261	2.268836	0	81.7	27.8
12/9/2010 5:00	18783	1_60	2010	343	500	1.329673	149.2811	20.74413	0.012	0.312	0	0.04	-2.769	-1.128	1.64148	0	83.3	27.39
12/9/2010 6:00	18784	1_60	2010	343	600	1.068376	99.72343	25.87066	0.217	3.582	0.082	1.495	-1.628	-0.304	1.324679	0	80.9	29.45
12/9/2010 7:00	18785	1_60	2010	343	700	1.236078	340.5944	22.97056	0.651	3.886	0.126	3.094	-2.327	-1.117	1.210315	0	83.9	28.2
12/9/2010 8:00	18786	1_60	2010	343	800	0.7952223	280.1869	66.29768	0.022	0.591	0.154	1.288	-2.376	-1.766	0.6100609	0	86.8	27.81
12/9/2010 9:00	18787	1_60	2010	343	900	0.7553417	112.798	48.12997	0.129	1.849	0.303	1.737	-1.199	-1.286	-0.08724057	0	83.1	30.31
12/9/2010 10:00	18788	1_60	2010	343	1000	1.091865	275.7436	25.47387	1.139	9.57	2.781	9.77	0.487	0.213	-0.2738686	0	72.82	33.6
12/9/2010 11:00	18789	1_60	2010	343	1100	0.7672298	30.18307	56.33857	4.742	17.71	3.071	16.49	2.715	2.401	-0.3141038	0	58.42	38.37
12/9/2010 12:00	18790	1_60	2010	343	1200	0.9144865	309.1235	37.39486	3.138	16.87	2.301	15.84	4.008	3.689	-0.3184957	0	52.84	40.47
12/9/2010 13:00	18791	1_60	2010	343	1300	0.6287355	10.14001	38.66862	2.193	14.34	-0.44	13.22	4.565	4.376	-0.1894358	0	52.7	41.3
12/9/2010 14:00	18792	1_60	2010	343	1400	0.9739928	286.0833	30.4023	2.176	17.83	1.486	15.32	5.412	5.091	-0.320896	0	49.41	42.72
12/9/2010 15:00	18793	1_60	2010	343	1500	0.7218047	352.3213	27.87703	0.547	10.49	-0.875	9.87	6.008	5.764	-0.2438679	0	47.97	43.96
12/9/2010 16:00	18794	1_60	2010	343	1600	0.489158	278.158	42.25942	0.43	2.865	0.156	2.059	6.362	6.243	-0.1193003	0	47.77	44.16
12/9/2010 17:00	18795	1_60	2010	343	1700	0.6929898	249.5409	14.83159	-0.002	0.024	0	0.011	5.189	5.739	0.5503469	0	53.72	41.76
12/9/2010 18:00	18796	1_60	2010	343	1800	1.142405	119.8777	37.01681	-0.025	0.669	0.107	0.908	3.744	4.875	1.131114	0	60.73	39.1
12/9/2010 19:00	18797	1_60	2010	343	1900	1.818926	91.92058	44.04699	0.134	4.576	0.604	8.7	3.193	4.482	1.289134	0	64.73	38.07
12/9/2010 20:00	18798	1_60	2010	343	2000	2.826162	292.5443	16.12105	1.17	6.569	0.081	7.103	2.79	3.259	0.4684399	0	67.17	37.25
12/9/2010 21:00	18799	1_60	2010	343	2100	1.602784	113.7968	46.43025	0.549	4.183	0.338	3.491	2.736	3.362	0.626129	0	66.55	37.11
12/9/2010 22:00	18800	1_60	2010	343	2200	1.801543	109.4747	23.76591	0.082	3.539	0.139	2.071	2.768	3.431	0.6627302	0	68.44	37.12
12/9/2010 23:00	18801	1_60	2010	343	2300	2.502356	149.2133	24.30743	0.855	4.205	6.776	8.62	2.951	4.028	1.076759	0	66.18	37.55
12/10/2010 0:00	18802	1_60	2010	344	0	1.654919	133.4857	35.84	0.681	3.453	1.04	3.604	3.407	4.151	0.7433463	0	61.52	38.32
12/10/2010 1:00	18803	1_60	2010	344	100	1.514518	265.3824	33.29457	0.018	1.391	-0.218	2.096	2.048	2.661	0.6128912	0	70.08	36.08
12/10/2010 2:00	18804	1_60	2010	344	200	1.324593	197.9685	37.72969	0.112	2.145	0.112	1.524	1.987	2.957	0.9707164	0	69.44	35.77
12/10/2010 3:00	18805	1_60	2010	344	300	1.004743	143.5502	42.52161	0.062	2.595	-0.155	2.963	0.858	2.42	1.561368	0	74.43	33.75
12/10/2010 4:00	18806	1_60	2010	344	400	1.926278	127.1477	14.997	0.644	4.101	0.561	3.152	0.541	1.759	1.218442	0	75.99	33.33
12/10/2010 5:00	18807	1_60	2010	344	500	1.846559	123.8839	17.26898	-0.013	1.311	-0.027	0.957	-0.11	1.983	2.092722	0	77.98	32.34
12/10/2010 6:00	18808	1_60	2010	344	600	0.9537706	201.0488	39.42507	-0.051	0.979	0.025	0.509	-0.989	1.479	2.467329	0	82.4	30.59
12/10/2010 7:00	18809	1_60	2010	344	700	1.09875	282.7226	23.1896	0.462	4.072	0.296	2.982	-1.816	0.034	1.850215	0	84.1	29.18
12/10/2010 8:00	18810	1_60	2010	344	800	1.107142	358.5298	35.46864	0.204	2.785	0.014	1.397	-2.168	-0.961	1.20698	0	89.5	28.02
12/10/2010 9:00	18811	1_60	2010	344	900	1.103953	142.8737	41.90597	0.213	1.954	0.278	1.831	-0.45	-0.105	0.3448155	0	83.7	31.88
12/10/2010 10:00	18812	1_60	2010	344	1000	0.7708702	5.702037	45.06367	0.815	15.54	-0.389	12.26	2.398	2.17	-0.2279899	0	68.37	38.37
12/10/2010 11:00	18813	1_60	2010	344	1100	0.8765973	329.0516	33.3722	0.61	22.97	-1.931	22.11	4.729	4.432	-0.2977833	0	56.9	42.89
12/10/2010 12:00	18814	1_60	2010	344	1200	1.26694	302.2134	31.62738	-1.298	19.37	-1.873	18.6	6.33	5.991	-0.3386863	0	54.25	45.01
12/10/2010 13:00	18815	1_60	2010	344	1300	1.116954	338.6035	34.04707	3.209	23.86	1.908	22.04	7.991	7.581	-0.4094805	0	48.38	48.18
12/10/2010 14:00	18816	1_60	2010	344	1400	2.405852	281.9377	40.37865	5.214	30.22	12.68	32.26	10.71	10.29	-0.4268062	0	39.39	52.35
12/10/2010 15:00	18817	1_60	2010	344	1500	6.520445	249.7381	12.16632	4.064	35.25	31.83	37.76	11.81	11.29	-0.5180782	0	34.03	53.42
12/10/2010 16:00	18818	1_60	2010	344	1600	8.08624	241.3671	9.96654	6.621	43.65	47.2	47.14	11.08	10.79	-0.2991454	0	35.74	52.15
12/10/2010 17:00	18819	1_60	2010	344	1700	7.329887	240.1855	7.79611	4.371	31.72	41.34	31.52	9.69	10.02	0.3302809	0	38.35	49.71
12/10/2010 18:00	18820	1_60	2010	344	1800	3.427402	254.506	16.6456	3.177	21.07	14.62	21.87	9.01	9.56	0.5457942	0	40.5	48.51
12/10/2010 19:00	18821	1_60	2010	344	1900	1.476376	348.477	24.35031	1.582	9.49	-0.641	8.89	7.543	8.58	1.03694	0	44.35	45.96
12/10/2010 20:00	18822	1_60	2010	344	2000	1.222794	299.89	62.82328	0.422	11.37	0.703	9.63	5.907	7.289	1.382179	0	49.51	42.74
12/10/2010 21:00	18823	1_60	2010	344	2100	1.324742	289.442	41.5183	0.731	11.3	-0.39	9.05	5.465	6.883	1.417807	0	51.11	41.85
12/10/2010 22:00	18824	1_60	2010	344	2200	1.020925	209.8345	59.13681	-0.239	3.947	-0.291	4.064	4.595	6.64	2.044446	0	54.12	40.87
12/10/2010 23:00	18825	1_60	2010	344	2300	2.2963	117.7074	21.91781	0.577	5.053	0.438	4.765	3.515	5.521	2.005893	0	60.88	38.67
12/11/2010 0:00	18826	1_60	2010	345	0	2.046541	130.7036	18.10213	0.267	4.209	1.128	4.361	3.141	5.51	2.369149	0	61.96	38.08
12/11/2010 1:00	18827	1_60	2010	345	100	1.374065	210.6296	47.10995	-0.333	5.189	0.002	4.288	3.156	5.021	1.864683	0	64.25	37.83
12/11/2010 2:00	18828	1_60	2010	345	200	0.7697336	220.9364	29.23209	-0.425	5.26	0.511	4.007	5.011	6.256	1.245175	0	54.79	41.19
12/11/2010 3:00	18829	1_60	2010	345	300	1.330481	271.4969	15.78469	-0.497	6.982	0.043	7.24	4.712	5.828	1.1165	0	55.58	40.81
12/11/2010 4:00	18830	1_60	2010	345	400	1.200921	264.0635	31.43024	-0.714	8.41	-0.4	6.718	4.667	5.36	0.6927177	0	54.99	40.56
12/11/2010 5:00	18831	1_60	2010	345	500	0.9659466	214.7905	35.61774	-0.002	2.084	0.031	1.766	3.652	4.807	1.155085	0	57.73	38.98
12/11/2010 6:00	18832	1_60	2010	345	600	1.574091	149.7076	27.16743	-0.168	1.971	0.238	1.926	2.621	4.09	1.469531	0	65.59	37.05
12/11/2010 7:00	18833	1_60	2010	345	700	1.840703	158.791	19.16991	-0.055	1.904	0.486	2.633	2.142	3.363	1.221342	0	70.2	36.02
12/11/2010 8:00	18834	1_60	2010	345	800	2.255754	114.4995	21.74009	0.775	5.926	0.267	4.895	1.262	2.171	0.9085314	0	73.23	34.89
12/11/2010 9:00	18835	1_60	2010	345	900	1.708026	113.8993	17.95973	1.855	7.731	2.004	6.688	3.087	3.242	0.1552331	0	64.99	38.6
12/11/2010 10:00	18836	1_60	2010	345	1000	1.177141	106.3137	35.78627	2.843	16.75	2.268	14.45	5.779	5.418	-0.3618026	0	51.78	44.41
12/11/2010 11:00	18837	1_60	2010	345	1100	0.975984	354.1832	43.94452	-0.786	30.19	-4.036	29.18	7.15	6.76	-0.3898511	0	43.31	47.19
12/11/2010 12:00	18838	1_60	2010	345	1200	3.454147	355.5983	23.22019	9.56	31.07	-5.71	33.64	8.4	7.824	-0.5728897	0	35.22	48.05
12/11/2010 13:00	18839	1_60	2010	345	1300	3.695319	319.093	27.71069	5.411	32.23	-1.497	35.9	9.13	8.46	-0.6724043	0	31.78	49.17
12/11/2010 14:00	18840	1_60	2010	345	1400	2.127807	274.8285	24.9798	1.707	27.01	4.695	28.86	8.99	8.47	-0.5226815	0	32.33	48.89
12/11/2010 15:00	18841	1_60	2010	345	1500	2.104568	296.8805	44.98802	1.825	25.66	-0.903	27.73	9.45	8.92	-0.5289894	0	29.49	50.29
12/11/2010 16:00	18842	1_60	2010	345	1600	4.033191	358.1609	14.56064	9.95	22.41	-6.666	24.65	9.22	8.81	-0.4092036	0	28.55	49.24
12/11/2010 17:00	18843	1_60	2010	345	1700	2.88764	339.0372	19.51803	5.471	15.45	-3.21	16.06	6.975	7.419	0.4438541	0	34.66	45.21
12/11/2010 18:00	18844	1_60	2010	345	1800	2.063888	286.5561	12.10978	0.219	4.366	0.848	4.827	4.271	5.693	1.421505	0	44.03	40.06
12/11/2010 19:00	18845	1_60	2010	345	1900	1.631314	157.9358	28.43592	-0.029	2.665	0.097	2.442	1.446	3.893	2.446636	0	54.53	35.37
12/11/2010 20:00	18846	1_60	2010	345	2000	2.233593	136.088	8.22936	-0.016	1.764	0.339	2.408	-0.57	2.49	3.060358	0	65.07	31.6
12/11/2010 21:00	18847	1_60	2010	345	2100	1.994019	122.4411	13.92926	-0.01	1.683	0.074	1.285	-1.364	2.273	3.636946	0	69.56	30.04
12/11/2010 22:00	18848	1_60	2010	345	2200	1.059608	61.29184	30.54711	-0.418	6.34	-0.609	7.75	-1.914	0.476	2.390263	0	71.64	29.09
12/11/2010 23:00	18849	1_60	2010	345	2300	2.27657	112.5895	12.76364	0.601	3.903	0.327	3.5	-2.877	-0.523	2.354751	0	76.65	27.24

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/9/2010 0:00	18778	1_60	2010	343	0	24.75	0.061	IL	2.935	37.1	2334	13.6
12/9/2010 1:00	18779	1_60	2010	343	100	24.74	0.055	IL	2.731	262.4	52	13.6
12/9/2010 2:00	18780	1_60	2010	343	200	24.74	0.044	IL	2.082	111.2	158	13.62
12/9/2010 3:00	18781	1_60	2010	343	300	24.72	0.042	IL	2.97	131.7	259	13.63
12/9/2010 4:00	18782	1_60	2010	343	400	24.73	0.049	IL	2.97	131.8	300	13.64
12/9/2010 5:00	18783	1_60	2010	343	500	24.72	0.051	IL	2.458	83.7	404	13.64
12/9/2010 6:00	18784	1_60	2010	343	600	24.73	0.052	IL	2.423	109.6	517	13.63
12/9/2010 7:00	18785	1_60	2010	343	700	24.73	0.063	IL	1.946	307.2	651	13.62
12/9/2010 8:00	18786	1_60	2010	343	800	24.74	9.77	IL	2.048	190	740	13.62
12/9/2010 9:00	18787	1_60	2010	343	900	24.76	78.29	IL	1.946	57.4	830	13.6
12/9/2010 10:00	18788	1_60	2010	343	1000	24.76	174.9	IL	2.423	274.7	929	13.57
12/9/2010 11:00	18789	1_60	2010	343	1100	24.75	259.1	IL	2.458	10.72	1048	13.5
12/9/2010 12:00	18790	1_60	2010	343	1200	24.73	255.4	IL	2.048	354.4	1138	13.43
12/9/2010 13:00	18791	1_60	2010	343	1300	24.69	172.6	IL	1.946	14.44	1215	13.4
12/9/2010 14:00	18792	1_60	2010	343	1400	24.68	223.4	IL	1.98	310.8	1353	13.38
12/9/2010 15:00	18793	1_60	2010	343	1500	24.66	198.6	IL	2.116	12.94	1420	13.36
12/9/2010 16:00	18794	1_60	2010	343	1600	24.67	87	IL	2.082	301	1549	13.35
12/9/2010 17:00	18795	1_60	2010	343	1700	24.67	16.27	IL	1.331	233.9	1632	13.37
12/9/2010 18:00	18796	1_60	2010	343	1800	24.67	0.161	IL	2.731	131.2	1743	13.4
12/9/2010 19:00	18797	1_60	2010	343	1900	24.66	0.062	IL	3.721	160.6	1828	13.43
12/9/2010 20:00	18798	1_60	2010	343	2000	24.68	0.065	IL	4.847	295.2	1923	13.45
12/9/2010 21:00	18799	1_60	2010	343	2100	24.67	0.064	IL	3.413	30.03	2010	13.46
12/9/2010 22:00	18800	1_60	2010	343	2200	24.68	0.063	IL	2.901	114.6	2102	13.47
12/9/2010 23:00	18801	1_60	2010	343	2300	24.67	0.065	IL	4.745	131	2230	13.47
12/10/2010 0:00	18802	1_60	2010	344	0	24.66	0.07	IL	3.379	125	2317	13.47
12/10/2010 1:00	18803	1_60	2010	344	100	24.65	0.063	IL	3.686	321.2	8	13.47
12/10/2010 2:00	18804	1_60	2010	344	200	24.64	0.042	IL	2.526	63.42	152	13.48
12/10/2010 3:00	18805	1_60	2010	344	300	24.65	0.027	IL	2.765	236.8	216	13.5
12/10/2010 4:00	18806	1_60	2010	344	400	24.63	0.019	IL	2.935	64.45	303	13.52
12/10/2010 5:00	18807	1_60	2010	344	500	24.63	0.033	IL	2.935	92.5	432	13.54
12/10/2010 6:00	18808	1_60	2010	344	600	24.62	0.059	IL	1.843	160.5	547	13.57
12/10/2010 7:00	18809	1_60	2010	344	700	24.63	0.06	IL	2.697	22.35	613	13.6
12/10/2010 8:00	18810	1_60	2010	344	800	24.64	13.65	IL	2.628	48.94	728	13.63
12/10/2010 9:00	18811	1_60	2010	344	900	24.64	114.7	IL	2.355	151.9	831	13.62
12/10/2010 10:00	18812	1_60	2010	344	1000	24.65	262.3	IL	1.809	41.54	949	13.56
12/10/2010 11:00	18813	1_60	2010	344	1100	24.63	374.1	IL	2.082	303.5	1038	13.46
12/10/2010 12:00	18814	1_60	2010	344	1200	24.61	327.2	IL	2.935	294.8	1200	13.37
12/10/2010 13:00	18815	1_60	2010	344	1300	24.58	458.9	IL	3.174	289.9	1200	13.33
12/10/2010 14:00	18816	1_60	2010	344	1400	24.56	356	IL	7.509	232.6	1349	13.27
12/10/2010 15:00	18817	1_60	2010	344	1500	24.55	334.6	IL	10.68	241.9	1450	13.24
12/10/2010 16:00	18818	1_60	2010	344	1600	24.56	218.2	IL	12.8	233.5	1531	13.24
12/10/2010 17:00	18819	1_60	2010	344	1700	24.57	27.07	IL	11.95	232.7	1613	13.27
12/10/2010 18:00	18820	1_60	2010	344	1800	24.57	0.7	IL	7.612	233.5	1710	13.3
12/10/2010 19:00	18821	1_60	2010	344	1900	24.59	0.026	IL	3.584	300.4	1856	13.34
12/10/2010 20:00	18822	1_60	2010	344	2000	24.6	0.05	IL	4.198	288.3	1941	13.39
12/10/2010 21:00	18823	1_60	2010	344	2100	24.6	0.057	IL	3.038	329.1	2057	13.42
12/10/2010 22:00	18824	1_60	2010	344	2200	24.61	0.067	IL	2.935	227.8	2115	13.44
12/10/2010 23:00	18825	1_60	2010	344	2300	24.62	0.066	IL	3.959	94.5	2213	13.45
12/11/2010 0:00	18826	1_60	2010	345	0	24.62	0.065	IL	3.891	129.1	2347	13.47
12/11/2010 1:00	18827	1_60	2010	345	100	24.63	0.069	IL	3.004	268.1	14	13.47
12/11/2010 2:00	18828	1_60	2010	345	200	24.64	0.071	IL	1.673	183.8	126	13.47
12/11/2010 3:00	18829	1_60	2010	345	300	24.66	0.08	IL	3.413	287.8	257	13.45
12/11/2010 4:00	18830	1_60	2010	345	400	24.67	0.072	IL	3.209	312.7	307	13.45
12/11/2010 5:00	18831	1_60	2010	345	500	24.67	0.067	IL	2.765	129.9	456	13.46
12/11/2010 6:00	18832	1_60	2010	345	600	24.69	0.068	IL	2.526	165.8	515	13.47
12/11/2010 7:00	18833	1_60	2010	345	700	24.71	0.063	IL	2.765	114.4	617	13.48
12/11/2010 8:00	18834	1_60	2010	345	800	24.72	12.86	IL	3.686	81.3	707	13.49
12/11/2010 9:00	18835	1_60	2010	345	900	24.73	139	IL	3.55	128.6	808	13.5
12/11/2010 10:00	18836	1_60	2010	345	1000	24.76	291.3	IL	3.789	268.9	941	13.44
12/11/2010 11:00	18837	1_60	2010	345	1100	24.77	382.8	IL	4.676	26.63	1054	13.36
12/11/2010 12:00	18838	1_60	2010	345	1200	24.76	465.9	IL	6.588	338.1	1125	13.31
12/11/2010 13:00	18839	1_60	2010	345	1300	24.74	481	IL	8.47	325	1229	13.27
12/11/2010 14:00	18840	1_60	2010	345	1400	24.74	361.2	IL	5.222	277.6	1317	13.26
12/11/2010 15:00	18841	1_60	2010	345	1500	24.75	357.4	IL	6.281	33.55	1444	13.24
12/11/2010 16:00	18842	1_60	2010	345	1600	24.76	207.7	IL	6.485	345.8	1500	13.22
12/11/2010 17:00	18843	1_60	2010	345	1700	24.76	34.76	IL	5.461	19.6	1641	13.27
12/11/2010 18:00	18844	1_60	2010	345	1800	24.78	0.27	IL	3.243	289.6	1712	13.37
12/11/2010 19:00	18845	1_60	2010	345	1900	24.79	0.042	IL	2.97	136.3	1858	13.45
12/11/2010 20:00	18846	1_60	2010	345	2000	24.8	0.018	IL	3.243	137.6	1901	13.52
12/11/2010 21:00	18847	1_60	2010	345	2100	24.81	0.055	IL	2.867	87.2	2038	13.58
12/11/2010 22:00	18848	1_60	2010	345	2200	24.83	0.045	IL	2.492	208.2	2103	13.61
12/11/2010 23:00	18849	1_60	2010	345	2300	24.82	0.037	IL	3.482	121.1	2235	13.64

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/12/2010 0:00	18850	1_60	2010	346	0	1.71346	78.24184	33.06919	1.077	6.335	0.692	5.999	-3.497	-1.973	1.524498	0	78.88	26.19
12/12/2010 1:00	18851	1_60	2010	346	100	1.175322	126.7394	42.31525	-0.109	1.774	-0.258	2.521	-4.475	-2.751	1.724468	0	82.9	24.53
12/12/2010 2:00	18852	1_60	2010	346	200	1.707035	127.0782	35.09526	0.666	3.431	-0.02	3.513	-3.774	-2.29	1.484037	0	80.1	25.64
12/12/2010 3:00	18853	1_60	2010	346	300	1.36445	99.83124	48.11116	0.785	4.749	0.964	5.312	-2.536	-1.621	0.9146034	0	78.47	27.56
12/12/2010 4:00	18854	1_60	2010	346	400	1.319481	287.6985	26.10777	0.039	0.55	0.086	1.138	-2.137	-1.807	0.3301611	0	81.7	28.32
12/12/2010 5:00	18855	1_60	2010	346	500	1.420081	123.7501	13.99935	0.105	1.285	0.091	1.485	-2.096	-1.212	0.8842958	0	79.07	28.52
12/12/2010 6:00	18856	1_60	2010	346	600	1.096101	327.7315	49.54928	-0.057	1.665	-0.218	1.653	-3.084	-1.955	1.129762	0	78.55	26.88
12/12/2010 7:00	18857	1_60	2010	346	700	1.211153	197.1949	38.53783	-0.009	1.009	0.317	1.896	-4.328	-2.527	1.800617	0	83.7	24.79
12/12/2010 8:00	18858	1_60	2010	346	800	2.3174	122.4327	11.7862	0.087	1.272	0.417	1.961	-4.619	-2.725	1.894088	0	83.8	24.18
12/12/2010 9:00	18859	1_60	2010	346	900	0.7905529	133.4251	26.53681	0.057	3.376	0.081	2.516	-1.438	-1.133	0.3046851	0	73.85	31.12
12/12/2010 10:00	18860	1_60	2010	346	1000	0.5953391	288.8606	35.61826	-0.804	17.98	-1.267	15.26	1.705	1.392	-0.3125989	0	53.84	37.69
12/12/2010 11:00	18861	1_60	2010	346	1100	0.9032803	326.4359	37.86001	-1.582	23.12	-3.273	22.84	3.915	3.523	-0.3911718	0	46.46	41.58
12/12/2010 12:00	18862	1_60	2010	346	1200	2.161458	299.1451	19.4013	3.433	27.58	2.622	28.62	5.565	4.986	-0.578182	0	43.79	43.11
12/12/2010 13:00	18863	1_60	2010	346	1300	1.606564	277.8086	26.14873	1.017	25.23	2.646	26.3	7.011	6.433	-0.5785059	0	40.19	46.01
12/12/2010 14:00	18864	1_60	2010	346	1400	1.361348	292.3227	32.17375	-3.433	28.06	-1.823	27.52	8.93	8.48	-0.4463443	0	36.25	49.6
12/12/2010 15:00	18865	1_60	2010	346	1500	0.7981776	242.5156	56.9324	1.986	26.34	4.075	25.82	10.5	10.02	-0.4807541	0	33.73	52.71
12/12/2010 16:00	18866	1_60	2010	346	1600	1.626392	182.0134	24.31638	5.35	17.62	11.79	17.96	10.84	10.33	-0.508613	0	34.37	52.68
12/12/2010 17:00	18867	1_60	2010	346	1700	2.045461	209.9353	23.14533	0.195	5.582	6.589	10.41	7.423	8.53	1.107316	0	44.79	45.81
12/12/2010 18:00	18868	1_60	2010	346	1800	1.407991	165.076	25.12701	-0.03	0.844	0	0.818	3.612	6.694	3.082319	0	57.52	39.37
12/12/2010 19:00	18869	1_60	2010	346	1900	2.690293	150.0216	15.66871	0.004	4.449	5.157	8.98	2.103	5.533	3.430109	0	64.53	36.44
12/12/2010 20:00	18870	1_60	2010	346	2000	1.749992	131.3501	21.73506	-0.018	1.904	0.182	1.851	0.972	4.004	3.032323	0	69.14	34.41
12/12/2010 21:00	18871	1_60	2010	346	2100	1.131199	113.6238	19.11682	0.138	4.767	0.276	4.08	-0.538	2.918	3.456086	0	75.72	31.54
12/12/2010 22:00	18872	1_60	2010	346	2200	1.156581	237.6716	58.14921	0.018	1.574	-0.042	0.976	-1.989	0.271	2.259367	0	82.1	29.01
12/12/2010 23:00	18873	1_60	2010	346	2300	2.315308	109.2882	10.36921	0.457	4.33	0.511	4.352	-1.676	0.765	2.441138	0	82.1	29.43
12/13/2010 0:00	18874	1_60	2010	347	0	1.287705	133.4796	52.35066	0.15	2.063	0.34	2.645	-2.842	-0.585	2.25764	0	85.7	27.38
12/13/2010 1:00	18875	1_60	2010	347	100	1.870262	137.0805	22.10618	-0.008	2.87	0.443	2.883	-3.314	-1.095	2.219727	0	87.6	26.68
12/13/2010 2:00	18876	1_60	2010	347	200	1.728562	103.4465	18.1768	0.001	3.046	-0.007	2.467	-3.397	-1.389	2.007735	0	88	26.17
12/13/2010 3:00	18877	1_60	2010	347	300	0.9852004	32.70866	28.1518	0.223	2.051	0.142	2.153	-3.368	-1.382	1.985958	0	87.6	26.49
12/13/2010 4:00	18878	1_60	2010	347	400	0.971266	69.51408	26.90656	0.005	0.334	-0.006	0.188	-4.796	-3.082	1.714479	0	91.1	23.85
12/13/2010 5:00	18879	1_60	2010	347	500	1.048772	94.90094	19.15741	0	0.075	0.001	0.041	-4.912	-3.532	1.379746	0	92.4	23.4
12/13/2010 6:00	18880	1_60	2010	347	600	1.977941	114.9387	6.525182	-0.001	0.198	0.001	0.06	-4.707	-2.271	2.436193	0	91	24.07
12/13/2010 7:00	18881	1_60	2010	347	700	0.5588492	140.0225	13.46319	-0.001	0.03	0	0	-5.533	-1.634	3.898364	0	92.7	22.42
12/13/2010 8:00	18882	1_60	2010	347	800	0.8773968	270.3456	21.95036	-0.001	0.035	-0.001	0.016	-5.974	-4.481	1.493195	0	91.7	22.37
12/13/2010 9:00	18883	1_60	2010	347	900	0.6878431	19.91375	30.30479	0.479	3.194	0.177	2.337	-4.101	-3.837	0.26377	0	84.3	27.05
12/13/2010 10:00	18884	1_60	2010	347	1000	0.572498	344.0072	39.08017	0.039	15.61	-0.211	11.66	-0.115	-0.354	-0.2387583	0	72.75	34.81
12/13/2010 11:00	18885	1_60	2010	347	1100	0.3962031	6.167093	32.87014	-1.55	26.42	-2.301	23.67	2.971	2.69	-0.2802624	0	59.28	41.02
12/13/2010 12:00	18886	1_60	2010	347	1200	0.9300467	327.0434	39.2611	0.57	29.2	0.194	27.42	5.548	5.203	-0.3448238	0	51.96	44.8
12/13/2010 13:00	18887	1_60	2010	347	1300	1.152422	307.3812	35.45927	-3.687	30.24	-2.241	28.83	7.742	7.34	-0.4018713	0	46.98	48.08
12/13/2010 14:00	18888	1_60	2010	347	1400	1.443463	303.017	28.00676	1.731	28.82	2.249	28.53	9.22	8.76	-0.4574138	0	44.26	49.97
12/13/2010 15:00	18889	1_60	2010	347	1500	1.217134	296.9742	41.78164	2.017	24.75	2.182	22.96	10.8	10.37	-0.4298902	0	40.05	52.95
12/13/2010 16:00	18890	1_60	2010	347	1600	1.463209	291.9277	19.08703	1.06	7.971	1.564	6.357	10.11	9.94	-0.169845	0	44.13	50.97
12/13/2010 17:00	18891	1_60	2010	347	1700	1.098939	265.9992	13.2222	-0.032	0.538	-0.002	0.147	7.329	8.31	0.9786221	0	53.29	45.68
12/13/2010 18:00	18892	1_60	2010	347	1800	1.349306	167.8967	10.91525	0	0.366	0.01	0.237	4.386	7.015	2.629021	0	62	40.66
12/13/2010 19:00	18893	1_60	2010	347	1900	1.356265	139.506	20.08637	0.023	1.172	0.004	0.096	2.679	6.488	3.808784	0	68.2	37.66
12/13/2010 20:00	18894	1_60	2010	347	2000	0.8024746	162.4001	39.25074	0	0.49	0.026	0.431	2.302	5.263	2.960414	0	71.82	36.35
12/13/2010 21:00	18895	1_60	2010	347	2100	0.849467	115.2833	22.93175	-0.002	0.437	0.008	0.242	1.063	3.393	2.329877	0	75.1	34.5
12/13/2010 22:00	18896	1_60	2010	347	2200	1.255136	123.7833	10.53905	-0.004	0.417	0.038	0.723	0.975	3.728	2.753047	0	76.29	34.24
12/13/2010 23:00	18897	1_60	2010	347	2300	0.9839417	135.6983	25.43159	-0.021	0.61	0.009	0.223	0.833	3.231	2.398249	0	77.36	34.12
12/14/2010 0:00	18898	1_60	2010	348	0	1.274706	111.478	34.53979	-0.029	1.003	0.024	0.709	0.045	2.729	2.684203	0	80.7	32.52
12/14/2010 1:00	18899	1_60	2010	348	100	1.15742	299.1075	14.58914	0.082	1.104	0.036	0.613	-0.249	1.947	2.195195	0	81	31.75
12/14/2010 2:00	18900	1_60	2010	348	200	0.8413003	178.5653	31.48426	0	0.024	0.002	0.033	-1.464	0.125	1.589654	0	86.7	29.82
12/14/2010 3:00	18901	1_60	2010	348	300	1.131256	138.652	30.42346	0.146	1.756	0.348	2.017	-1.276	0.778	2.054631	0	84.6	30.36
12/14/2010 4:00	18902	1_60	2010	348	400	1.456389	103.0484	52.17937	0.028	0.688	-0.083	0.757	-3.181	-0.665	2.515728	0	89.4	26.78
12/14/2010 5:00	18903	1_60	2010	348	500	1.439177	120.1345	29.84747	0.012	0.394	0.002	0.125	-2.992	-0.903	2.089624	0	89.5	27.22
12/14/2010 6:00	18904	1_60	2010	348	600	1.807385	95.22969	30.44094	-0.119	2.013	-0.144	1.908	-4.713	-1.957	2.755324	0	90.8	24.07
12/14/2010 7:00	18905	1_60	2010	348	700	1.675034	90.92487	24.57654	0.06	1.609	-0.094	1.495	-4.63	-2.728	1.901979	0	92.5	24.01
12/14/2010 8:00	18906	1_60	2010	348	800	1.164283	128.2589	29.20033	-0.026	0.684	0.004	0.297	-3.846	-2.201	1.644401	0	90.5	25.85
12/14/2010 9:00	18907	1_60	2010	348	900	1.590783	109.7365	22.05456	0.305	5.407	0.578	4.308	-1.18	-0.634	0.5460074	0	83.2	31.14
12/14/2010 10:00	18908	1_60	2010	348	1000	1.349145	297.5031	20.58499	0.736	11.11	1.091	11.12	1.169	0.892	-0.2776462	0	76.02	35.44
12/14/2010 11:00	18909	1_60	2010	348	1100	0.9181858	294.3116	32.53739	3.735	17.57	3.127	14.63	2.38	2.076	-0.3041913	0	70.42	37.83
12/14/2010 12:00	18910	1_60	2010	348	1200	1.0203	285.5869	56.92719	-1.161	24.05	0.245	24.23	5.401	4.9	-0.5007561	0	56.12	43.95
12/14/2010 13:00	18911	1_60	2010	348	1300	1.259571	263.1654	43.41893	-1.402	19.9	1.899	18.43	7.317	6.84	-0.4775479	0	49.22	46.62
12/14/2010 14:00	18912	1_60	2010	348	1400	0.7713236	346.2335	63.3197	1.621	20.95	1.955	19.52	9.5	9.16	-0.3445961	0	41.46	50.99
12/14/2010 15:00	18913	1_60	2010	348	1500	1.893058	318.7325	39.74837	3.784	24.93	7.576	27.87	13.36	12.94	-0.4167449	0	26.48	57.09
12/14/2010 16:00	18914	1_60	2010	348	1600	3.068408	205.6791	41.34221	2.744	23.66	17.82	25.81	13.12	13.21	0.08745665	0	19.54	56.04
12/14/2010 17:00	18915	1_60	2010	348	1700	2.147125	173.9035	53.75234	3.52	23.36	11.51	25.52	12.08	12.64	0.5605048	0	18.73	53.98
12/14/2010 18:00	18916	1_60	2010	348	1800	1.436951	26.60141	57.78789	-0.594	13.31	0.589	12.76	10.14	11.43	1.295007	0	21.2	50.62
12/14/2010 19:00	18917	1_60	2010	348	1900	1.291822	317.8701	61.84217	1.009	13.91	1.378	13.08	9.16	10.7	1.547925	0	22.38	48.76
12/14/2010 20:00	18918	1_60	2010	348	2000	1.823532	268.7216	35.85898	0.087	4.877	0.588	4.13	6.165	7.81	1.645818	0	31.59	43.66
12/14/2010 21:00	18919	1_60	2010	348	2100	1.31743	109.1658	53.07829	0.812	6.032	0.525	4.453	5.462	7.299	1.837285	0	33.69	42.23
12/14/2010 22:00	18920	1_60	2010	348	2200	1.422417	169.3104	46.33237	0.39	6.092	0.901	5.58	5.289	7.428	2.138926	0	34.63	41.88
12/14/2010 23:00	18921	1_60	2010	348	2300	1.871604	93.93778	41.65337	0.875	8.85	0.159	9.43	5.45	7.103	1.652756	0	35.63	41.89

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/12/2010 0:00	18850	1_60	2010	346	0	24.84	0.052	IL	2.97	104.9	2318	13.66
12/12/2010 1:00	18851	1_60	2010	346	100	24.85	0.06	IL	3.106	110	10	13.69
12/12/2010 2:00	18852	1_60	2010	346	200	24.86	0.059	IL	4.403	86	134	13.7
12/12/2010 3:00	18853	1_60	2010	346	300	24.87	0.036	IL	2.492	237.5	219	13.68
12/12/2010 4:00	18854	1_60	2010	346	400	24.87	0.038	IL	2.15	215.3	350	13.64
12/12/2010 5:00	18855	1_60	2010	346	500	24.88	0.06	IL	2.628	91.6	438	13.62
12/12/2010 6:00	18856	1_60	2010	346	600	24.88	0.042	IL	2.799	337.7	558	13.64
12/12/2010 7:00	18857	1_60	2010	346	700	24.9	0.071	IL	2.697	331.9	600	13.67
12/12/2010 8:00	18858	1_60	2010	346	800	24.9	24.07	IL	3.038	116.5	725	13.7
12/12/2010 9:00	18859	1_60	2010	346	900	24.92	136.4	IL	2.287	138.2	800	13.67
12/12/2010 10:00	18860	1_60	2010	346	1000	24.94	307	IL	1.741	328.1	948	13.57
12/12/2010 11:00	18861	1_60	2010	346	1100	24.91	407.8	IL	2.901	281.2	1051	13.46
12/12/2010 12:00	18862	1_60	2010	346	1200	24.89	472.9	IL	3.755	303.3	1128	13.38
12/12/2010 13:00	18863	1_60	2010	346	1300	24.87	447.1	IL	3.038	254	1239	13.32
12/12/2010 14:00	18864	1_60	2010	346	1400	24.85	458.3	IL	3.038	276.1	1302	13.27
12/12/2010 15:00	18865	1_60	2010	346	1500	24.83	352	IL	2.253	326.8	1414	13.23
12/12/2010 16:00	18866	1_60	2010	346	1600	24.84	209.9	IL	3.584	194.2	1537	13.21
12/12/2010 17:00	18867	1_60	2010	346	1700	24.85	35.82	IL	3.379	190.1	1626	13.25
12/12/2010 18:00	18868	1_60	2010	346	1800	24.84	0.506	IL	2.833	163.2	1748	13.34
12/12/2010 19:00	18869	1_60	2010	346	1900	24.85	0.05	IL	3.925	99.7	1851	13.43
12/12/2010 20:00	18870	1_60	2010	346	2000	24.85	0.04	IL	3.755	105.7	1902	13.5
12/12/2010 21:00	18871	1_60	2010	346	2100	24.85	0.03	IL	2.628	105.8	2009	13.55
12/12/2010 22:00	18872	1_60	2010	346	2200	24.85	0.058	IL	2.492	231.4	2134	13.59
12/12/2010 23:00	18873	1_60	2010	346	2300	24.85	0.042	IL	3.857	91.2	2253	13.62
12/13/2010 0:00	18874	1_60	2010	347	0	24.86	0.046	IL	3.516	145.1	2308	13.64
12/13/2010 1:00	18875	1_60	2010	347	100	24.86	0.06	IL	3.891	115.6	59	13.66
12/13/2010 2:00	18876	1_60	2010	347	200	24.85	0.06	IL	4.062	106.6	100	13.67
12/13/2010 3:00	18877	1_60	2010	347	300	24.85	0.064	IL	2.116	63.22	238	13.69
12/13/2010 4:00	18878	1_60	2010	347	400	24.84	0.059	IL	2.799	47.45	342	13.7
12/13/2010 5:00	18879	1_60	2010	347	500	24.83	0.047	IL	2.15	116.7	452	13.72
12/13/2010 6:00	18880	1_60	2010	347	600	24.82	0.035	IL	2.833	113.6	521	13.72
12/13/2010 7:00	18881	1_60	2010	347	700	24.81	0.05	IL	1.161	117.9	623	13.73
12/13/2010 8:00	18882	1_60	2010	347	800	24.82	19.77	IL	1.604	269.1	731	13.74
12/13/2010 9:00	18883	1_60	2010	347	900	24.83	178.8	IL	1.877	19.59	857	13.71
12/13/2010 10:00	18884	1_60	2010	347	1000	24.83	310.9	IL	1.946	16.34	931	13.61
12/13/2010 11:00	18885	1_60	2010	347	1100	24.81	428.9	IL	1.604	353.9	1042	13.49
12/13/2010 12:00	18886	1_60	2010	347	1200	24.77	499.9	IL	2.355	342.7	1148	13.38
12/13/2010 13:00	18887	1_60	2010	347	1300	24.74	514	IL	2.935	295.4	1227	13.3
12/13/2010 14:00	18888	1_60	2010	347	1400	24.71	466.8	IL	3.174	300.2	1302	13.25
12/13/2010 15:00	18889	1_60	2010	347	1500	24.69	361.2	IL	3.038	292.4	1447	13.21
12/13/2010 16:00	18890	1_60	2010	347	1600	24.69	129.4	IL	2.799	271	1521	13.22
12/13/2010 17:00	18891	1_60	2010	347	1700	24.69	24.74	IL	2.116	260.5	1616	13.27
12/13/2010 18:00	18892	1_60	2010	347	1800	24.69	1.017	IL	2.15	167.2	1751	13.35
12/13/2010 19:00	18893	1_60	2010	347	1900	24.68	0.049	IL	2.56	140.4	1823	13.42
12/13/2010 20:00	18894	1_60	2010	347	2000	24.68	0.056	IL	2.014	189.3	1951	13.47
12/13/2010 21:00	18895	1_60	2010	347	2100	24.68	0.031	IL	1.946	106.7	2052	13.51
12/13/2010 22:00	18896	1_60	2010	347	2200	24.67	0.022	IL	2.97	114.3	2137	13.53
12/13/2010 23:00	18897	1_60	2010	347	2300	24.67	0.058	IL	2.287	103.8	2253	13.55
12/14/2010 0:00	18898	1_60	2010	348	0	24.66	0.056	IL	2.765	112.3	2304	13.57
12/14/2010 1:00	18899	1_60	2010	348	100	24.65	0.061	IL	2.048	305	14	13.58
12/14/2010 2:00	18900	1_60	2010	348	200	24.65	0.06	IL	2.082	111.6	157	13.6
12/14/2010 3:00	18901	1_60	2010	348	300	24.62	0.055	IL	2.526	168.7	220	13.62
12/14/2010 4:00	18902	1_60	2010	348	400	24.62	0.046	IL	2.662	12.11	311	13.64
12/14/2010 5:00	18903	1_60	2010	348	500	24.6	0.06	IL	3.311	107.4	458	13.66
12/14/2010 6:00	18904	1_60	2010	348	600	24.59	0.063	IL	3.618	115.9	501	13.68
12/14/2010 7:00	18905	1_60	2010	348	700	24.6	0.06	IL	2.662	114	616	13.71
12/14/2010 8:00	18906	1_60	2010	348	800	24.6	22.66	IL	3.447	107.4	748	13.71
12/14/2010 9:00	18907	1_60	2010	348	900	24.6	180.5	IL	2.935	110.8	822	13.67
12/14/2010 10:00	18908	1_60	2010	348	1000	24.6	250.8	IL	2.765	316	933	13.58
12/14/2010 11:00	18909	1_60	2010	348	1100	24.57	279.1	IL	2.014	280.6	1023	13.52
12/14/2010 12:00	18910	1_60	2010	348	1200	24.52	484	IL	2.731	245	1127	13.41
12/14/2010 13:00	18911	1_60	2010	348	1300	24.49	354.1	IL	3.209	250	1218	13.31
12/14/2010 14:00	18912	1_60	2010	348	1400	24.46	384.7	IL	2.355	25.49	1347	13.29
12/14/2010 15:00	18913	1_60	2010	348	1500	24.44	354.3	IL	6.485	213	1447	13.23
12/14/2010 16:00	18914	1_60	2010	348	1600	24.43	108.2	IL	6.793	213.8	1524	13.2
12/14/2010 17:00	18915	1_60	2010	348	1700	24.42	24.29	IL	8.29	144.3	1614	13.24
12/14/2010 18:00	18916	1_60	2010	348	1800	24.41	0.127	IL	2.662	30.5	1707	13.28
12/14/2010 19:00	18917	1_60	2010	348	1900	24.4	0.047	IL	2.867	272.8	1826	13.31
12/14/2010 20:00	18918	1_60	2010	348	2000	24.4	0.018	IL	3.823	297.6	1928	13.36
12/14/2010 21:00	18919	1_60	2010	348	2100	24.39	0.042	IL	2.97	96.1	2021	13.4
12/14/2010 22:00	18920	1_60	2010	348	2200	24.38	0.058	IL	3.038	83.1	2135	13.43
12/14/2010 23:00	18921	1_60	2010	348	2300	24.37	0.064	IL	4.028	90.3	2256	13.43

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
12/15/2010 0:00	18922	1_60	2010	349	0	1.370645	241.2254	49.8518	-0.876	20.89	1.11	22.13	6.547	8.65	2.100165	0	32.21	43.84
12/15/2010 1:00	18923	1_60	2010	349	100	2.661679	268.3431	59.01831	0.327	31.71	7.479	35.62	7.643	9.03	1.390611	0	31.5	45.76
12/15/2010 2:00	18924	1_60	2010	349	200	6.196577	197.4027	22.06162	2.752	52.23	41.71	58.22	11.24	11.56	0.3164137	0	22.86	52.45
12/15/2010 3:00	18925	1_60	2010	349	300	6.334416	198.9578	24.27718	6.345	59.9	46.57	64.93	11.23	11.48	0.2510435	0	22.24	52.41
12/15/2010 4:00	18926	1_60	2010	349	400	6.619065	188.7325	23.9489	8.53	58.41	51.87	68.02	10.54	10.8	0.2624267	0	21.97	51.19
12/15/2010 5:00	18927	1_60	2010	349	500	6.898193	191.1685	24.50138	-0.689	69.26	43.88	76.73	10.38	10.6	0.2169585	0	21.14	50.88
12/15/2010 6:00	18928	1_60	2010	349	600	4.630264	192.4697	35.32804	2.381	60.29	27.88	65.77	10	10.26	0.2572626	0	20.9	50.23
12/15/2010 7:00	18929	1_60	2010	349	700	5.591394	202.0573	21.81582	4.393	43.79	39.83	49.44	9.54	9.84	0.3003888	0	21.42	49.4
12/15/2010 8:00	18930	1_60	2010	349	800	6.948107	194.41	14.53015	6.536	46.72	54.69	52.6	9.24	9.5	0.2586747	0	21.98	48.84
12/15/2010 9:00	18931	1_60	2010	349	900	7.523996	206.7949	14.3703	2.482	50.2	51.14	54.79	9.17	9.3	0.131109	0	22.97	48.66
12/15/2010 10:00	18932	1_60	2010	349	1000	4.021287	245.752	45.33411	4.063	39.78	20.19	45.84	9.57	9.49	-0.07686651	0	23.54	49.46
12/15/2010 11:00	18933	1_60	2010	349	1100	5.700554	245.4419	16.99485	2.341	44.01	25.67	48.94	10.55	10.12	-0.4310023	0	23.79	51.18
12/15/2010 12:00	18934	1_60	2010	349	1200	4.769572	240.7238	19.24167	2.569	33.66	24.59	37.58	11.34	10.73	-0.6145059	0	24.67	52.67
12/15/2010 13:00	18935	1_60	2010	349	1300	5.537007	254.3408	15.86401	6.228	37.88	25.82	42.33	11.77	11.07	-0.6961359	0	26.63	53.44
12/15/2010 14:00	18936	1_60	2010	349	1400	6.397875	290.3338	11.75411	5.842	33.87	9.03	39.55	10.44	10.28	-0.1590632	0	32.52	50.92
12/15/2010 15:00	18937	1_60	2010	349	1500	6.648381	290.6101	10.13627	5.762	31.81	9.63	36.2	9.33	9.23	-0.1026694	0	38.08	48.9
12/15/2010 16:00	18938	1_60	2010	349	1600	5.304964	267.6425	9.305119	5.265	26.98	19.97	29.84	8.96	8.93	-0.03539367	0	35.98	48.27
12/15/2010 17:00	18939	1_60	2010	349	1700	4.33782	266.8022	9.152068	3.85	19.61	14.03	20.94	8.46	8.6	0.1419118	0	31.97	47.44
12/15/2010 18:00	18940	1_60	2010	349	1800	2.737934	280.9345	18.73584	1.623	13.43	6.057	15.52	7.215	7.564	0.3491891	0	35.54	45.21
12/15/2010 19:00	18941	1_60	2010	349	1900	1.457121	237.4979	24.26224	-1.085	9.48	1.265	9.61	6.882	7.304	0.4215371	0	37.15	44.59
12/15/2010 20:00	18942	1_60	2010	349	2000	2.368702	255.6732	20.01714	-0.083	12.03	6.106	14.6	5.769	6.495	0.7267654	0	41.14	42.72
12/15/2010 21:00	18943	1_60	2010	349	2100	1.365957	307.2995	17.64965	0.118	2.2	0.045	1.507	4.7	5.535	0.8345487	0	43.03	40.82
12/15/2010 22:00	18944	1_60	2010	349	2200	1.292722	120.8023	18.74989	-0.008	0.511	-0.011	0.343	0.469	3.239	2.77048	0	58.43	33.83
12/15/2010 23:00	18945	1_60	2010	349	2300	1.392075	154.2115	21.01875	-0.132	1.665	0.142	1.675	-0.032	2.994	3.026067	0	61.48	32.5
12/16/2010 0:00	18946	1_60	2010	350	0	1.137292	222.7468	30.48344	-0.001	1.175	0.164	1.094	-1.33	1.225	2.555091	0	66.52	30.36
12/16/2010 1:00	18947	1_60	2010	350	100	1.12955	146.3819	37.56568	0.002	1.738	0.124	2.5	-3.224	-0.231	2.993353	0	73.38	27
12/16/2010 2:00	18948	1_60	2010	350	200	1.193667	142.3169	42.60578	0.416	3.14	0.38	3.495	-3.465	-1.72	1.745039	0	78.32	26.01
12/16/2010 3:00	18949	1_60	2010	350	300	0.7750539	236.5197	56.50276	0.003	0.409	-0.03	0.958	-2.667	-1.061	1.606349	0	77	27.46
12/16/2010 4:00	18950	1_60	2010	350	400	0.8729883	222.1558	40.68193	0.001	0.03	-0.049	1.09	-2.422	-1.597	0.8251314	0	76.55	27.94
12/16/2010 5:00	18951	1_60	2010	350	500	1.211989	235.5132	29.78829	0.001	0.047	0.002	0.129	-3.955	-2.298	1.657133	0	83.4	25.3
12/16/2010 6:00	18952	1_60	2010	350	600	0.8346443	111.0046	16.46459	0	0.02	0	0.024	-2.759	-1.672	1.086882	0	80.9	27.3
12/16/2010 7:00	18953	1_60	2010	350	700	1.77192	125.8724	17.26266	0.086	1.417	0.145	1.402	-2.076	-1.326	0.7501516	0	81.3	28.49
12/16/2010 8:00	18954	1_60	2010	350	800	1.454745	104.9641	37.76246	0.166	4.235	-0.109	3.54	-1.656	-1.043	0.613579	0	81.2	29.2
12/16/2010 9:00	18955	1_60	2010	350	900	1.747966	302.076	19.66476	0.454	2.896	0.41	3.336	-1.559	-1.494	0.06482444	0	80.1	29.43
12/16/2010 10:00	18956	1_60	2010	350	1000	0.6630651	276.165	24.64706	0.365	5.953	0.256	5.313	-0.502	-0.667	-0.1651602	0	70.48	31.79
12/16/2010 11:00	18957	1_60	2010	350	1100	1.190512	285.3032	26.30744	-1.048	16.94	-0.91	17.52	1.129	0.86	-0.2685362	0	62.05	34.95
12/16/2010 12:00	18958	1_60	2010	350	1200	1.348377	281.3835	27.74117	2.72	14.92	3.973	17.26	2.61	2.309	-0.3010559	0	51.2	37.57
12/16/2010 13:00	18959	1_60	2010	350	1300	1.217645	305.0886	19.09159	1.591	13.34	0.237	15.34	3.242	2.957	-0.2856869	0	46.46	38.82
12/16/2010 14:00	18960	1_60	2010	350	1400	1.324739	315.7887	22.65341	1.461	15.44	-0.565	16.21	3.966	3.688	-0.2779575	0	42.15	40.12
12/16/2010 15:00	18961	1_60	2010	350	1500	2.034022	316.9172	13.15217	1.784	12.1	-1.504	12.75	4.541	4.268	-0.2727914	0	41.48	40.6
12/16/2010 16:00	18962	1_60	2010	350	1600	2.263375	319.1464	8.49083	1.731	8.6	-1.485	8.66	4.516	4.365	-0.1507714	0	42.76	40.53
12/16/2010 17:00	18963	1_60	2010	350	1700	1.194213	303.8896	12.95493	-0.001	0.238	0.008	0.111	3.468	3.877	0.4090592	0	47.89	38.61
12/16/2010 18:00	18964	1_60	2010	350	1800	0.8491223	266.0257	20.32258	0.087	1.075	0.18	1.804	1.635	2.933	1.297977	0	53.1	35.4
12/16/2010 19:00	18965	1_60	2010	350	1900	1.5121	291.9263	53.3627	-0.41	7.476	-0.667	6.771	0.906	2.144	1.237645	0	50.84	33.94
12/16/2010 20:00	18966	1_60	2010	350	2000	1.172821	285.2567	38.10118	0.332	6.099	0.735	5.232	1.188	2.203	1.015745	0	49.77	34.5
12/16/2010 21:00	18967	1_60	2010	350	2100	0.7823654	141.8126	43.38975	0.298	4.448	0.579	4.011	0.528	1.914	1.386311	0	53.08	33.45
12/16/2010 22:00	18968	1_60	2010	350	2200	1.631257	262.1134	10.91107	0.153	3.04	1.289	4.008	-0.001	0.966	0.9663405	0	54.04	32.31
12/16/2010 23:00	18969	1_60	2010	350	2300	1.221313	253.4577	25.63348	-0.397	9.71	1.468	9.02	-0.178	0.317	0.494645	0	53.62	31.83
12/17/2010 0:00	18970	1_60	2010	351	0	1.186526	154.168	28.17788	-0.885	6.779	-0.429	5.526	-0.63	-0.006	0.6240569	0	55.04	31.09
12/17/2010 1:00	18971	1_60	2010	351	100	1.203387	146.3913	17.37967	0.002	0.877	0.018	0.281	-1.918	-0.035	1.883507	0	62.52	28.89
12/17/2010 2:00	18972	1_60	2010	351	200	1.180669	199.1839	30.02381	-1.194	7.605	-0.096	8.12	-1.761	-0.195	1.566047	0	58.38	29.24
12/17/2010 3:00	18973	1_60	2010	351	300	0.9386605	126.9331	20.75974	-0.087	3.669	0.073	4.028	-2.697	-1.325	1.372702	0	69.05	27.5
12/17/2010 4:00	18974	1_60	2010	351	400	0.8440334	193.0783	33.3773	0.26	4.284	0.783	4.582	-2.422	-0.782	1.640096	0	66.07	27.93
12/17/2010 5:00	18975	1_60	2010	351	500	1.289215	223.0882	29.42264	-0.36	4.08	0.43	3.872	-1.756	-0.763	0.9933214	0	58.32	29.09
12/17/2010 6:00	18976	1_60	2010	351	600	1.047208	88.64548	22.88705	0.119	3.108	0.047	2.04	-2.723	-1.521	1.201824	0	64.39	27.6
12/17/2010 7:00	18977	1_60	2010	351	700	1.96303	133.5188	9.286034	0.14	2.459	1.236	3.861	-3.506	-2.144	1.362241	0	68.72	26.13
12/17/2010 8:00	18978	1_60	2010	351	800	1.411355	141.7974	42.56955	-0.103	5.946	0.57	6.023	-3.84	-2.215	1.625245	0	67.29	25.69
12/17/2010 9:00	18979	1_60	2010	351	900	1.545404	87.079	13.86227	0.405	6.31	-0.292	6.104	-2.684	-2.536	0.1478942	0	67.57	28.52
12/17/2010 10:00	18980	1_60	2010	351	1000	0.8007358	116.8628	44.58291	4.892	20.71	6.252	20.7	0.23	-0.084	-0.3142224	0	45.96	35.36
12/17/2010 11:00	18981	1_60	2010	351	1100	1.18775	25.17979	53.32579	0.682	26.46	-1.812	27.11	1.418	0.98	-0.4386584	0	39.22	36.92
12/17/2010 12:00	18982	1_60	2010	351	1200	1.399434	329.4211	42.23374	-2.268	29.86	-6.93	30.71	2.409	1.91	-0.4991176	0	36.42	38.37
12/17/2010 13:00	18983	1_60	2010	351	1300	1.661118	302.8256	47.09409	4.189	26.47	3.239	28.04	4.006	3.375	-0.630326	0	32.06	40.95
12/17/2010 14:00	18984	1_60	2010	351	1400	1.609719	318.3592	37.9677	3.263	28.73	-1.239	30.55	5.549	4.982	-0.5671389	0	27.81	43.51
12/17/2010 15:00	18985	1_60	2010	351	1500	2.41216	275.7105	28.16133	2.199	24.53	5.281	24.64	6.573	6.061	-0.5119867	0	27.71	44.48
12/17/2010 16:00	18986	1_60	2010	351	1600	3.576931	230.7726	18.46288	2.154	23.86	21.02	30.48	6.205	6.009	-0.1959367	0	29.56	43.57
12/17/2010 17:00	18987	1_60	2010	351	1700	4.640125	201.3061	11.04834	1.801	23.41	30.61	24.71	4.703	4.829	0.1262083	0	32.25	40.69
12/17/2010 18:00	18988	1_60	2010	351	1800	5.233128	212.1643	7.341105	1.629	21.8	34.43	22.49	3.941	4.201	0.2596012	0	34.31	39.3
12/17/2010 19:00	18989	1_60	2010	351	1900	5.703885	223.5401	11.08454	2.201	31.41	34.21	33.4	3.501	3.764	0.2623758	0	36.44	38.53
12/17/2010 20:00	18990	1_60	2010	351	2000	4.124804	223.958	14.26789	1.316	28.11	22.88	32.35	3.271	3.452	0.1811633	0	44.01	38.07
12/17/2010 21:00	18991	1_60	2010	351	2100	5.388184	216.2854	18.40977	2.946	32.08	33.84	34.22	3.234	3.341	0.1071231	0	48.68	37.99
12/17/2010 22:00	18992	1_60	2010	351	2200	4.054148	219.683	13.42694	1.772	24.62	23.65	26.35	1.732	1.75	0.01886684	0	64.26	35.31
12/17/2010 23:00	18993	1_60	2010	351	2300	1.72412	321.8268	25.26288	-0.144	6.673	-0.781	6.132	0.795	0.864	0.06816993	0	75.29	33.68

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/15/2010 0:00	18922	1_60	2010	349	0	24.35	0.06	IL	4.403	153	2317	13.42
12/15/2010 1:00	18923	1_60	2010	349	100	24.33	0.043	IL	9.15	219.5	45	13.41
12/15/2010 2:00	18924	1_60	2010	349	200	24.32	0.005	IL	14.34	223.9	156	13.37
12/15/2010 3:00	18925	1_60	2010	349	300	24.31	0.046	IL	15.02	230.6	211	13.32
12/15/2010 4:00	18926	1_60	2010	349	400	24.3	0.061	IL	16.28	177	355	13.31
12/15/2010 5:00	18927	1_60	2010	349	500	24.28	0.058	IL	16.52	223.3	456	13.31
12/15/2010 6:00	18928	1_60	2010	349	600	24.3	0.044	IL	10.96	197.3	517	13.31
12/15/2010 7:00	18929	1_60	2010	349	700	24.31	0.058	IL	12.87	212.6	652	13.32
12/15/2010 8:00	18930	1_60	2010	349	800	24.31	4.198	IL	14.27	179.5	708	13.33
12/15/2010 9:00	18931	1_60	2010	349	900	24.33	44.61	IL	15.56	214.8	807	13.33
12/15/2010 10:00	18932	1_60	2010	349	1000	24.34	139.1	IL	11.54	255.3	957	13.33
12/15/2010 11:00	18933	1_60	2010	349	1100	24.35	294.8	IL	10.21	234.5	1021	13.31
12/15/2010 12:00	18934	1_60	2010	349	1200	24.34	332.9	IL	8.4	254.1	1103	13.27
12/15/2010 13:00	18935	1_60	2010	349	1300	24.33	342.5	IL	10.44	252.9	1233	13.24
12/15/2010 14:00	18936	1_60	2010	349	1400	24.34	104.8	IL	10.17	288.4	1300	13.25
12/15/2010 15:00	18937	1_60	2010	349	1500	24.36	87.1	IL	10.48	285.1	1453	13.27
12/15/2010 16:00	18938	1_60	2010	349	1600	24.38	64.28	IL	9.08	280.9	1501	13.3
12/15/2010 17:00	18939	1_60	2010	349	1700	24.4	27.94	IL	7.748	282.9	1630	13.31
12/15/2010 18:00	18940	1_60	2010	349	1800	24.41	0.128	IL	5.257	259.6	1725	13.34
12/15/2010 19:00	18941	1_60	2010	349	1900	24.42	0.027	IL	3.072	239.9	1820	13.36
12/15/2010 20:00	18942	1_60	2010	349	2000	24.43	0.056	IL	4.574	225.9	1929	13.39
12/15/2010 21:00	18943	1_60	2010	349	2100	24.43	0.055	IL	2.014	284	2004	13.42
12/15/2010 22:00	18944	1_60	2010	349	2200	24.44	0.039	IL	2.321	124.1	2115	13.47
12/15/2010 23:00	18945	1_60	2010	349	2300	24.44	0.016	IL	2.867	119.6	2241	13.54
12/16/2010 0:00	18946	1_60	2010	350	0	24.45	0.049	IL	2.526	243.4	2353	13.59
12/16/2010 1:00	18947	1_60	2010	350	100	24.44	0.035	IL	2.389	133.9	28	13.63
12/16/2010 2:00	18948	1_60	2010	350	200	24.45	0.054	IL	2.901	93.5	108	13.66
12/16/2010 3:00	18949	1_60	2010	350	300	24.45	0.06	IL	1.536	257.8	242	13.66
12/16/2010 4:00	18950	1_60	2010	350	400	24.45	0.059	IL	1.673	201.1	341	13.66
12/16/2010 5:00	18951	1_60	2010	350	500	24.46	0.057	IL	2.048	96.3	409	13.66
12/16/2010 6:00	18952	1_60	2010	350	600	24.47	0.052	IL	1.843	107.8	528	13.66
12/16/2010 7:00	18953	1_60	2010	350	700	24.48	0.05	IL	3.038	98.5	629	13.64
12/16/2010 8:00	18954	1_60	2010	350	800	24.49	2.709	IL	2.765	41.45	711	13.62
12/16/2010 9:00	18955	1_60	2010	350	900	24.5	46.62	IL	3.072	347.5	817	13.61
12/16/2010 10:00	18956	1_60	2010	350	1000	24.51	109.9	IL	1.946	246.2	903	13.58
12/16/2010 11:00	18957	1_60	2010	350	1100	24.49	215.4	IL	2.594	328.9	1047	13.54
12/16/2010 12:00	18958	1_60	2010	350	1200	24.47	204.8	IL	2.662	247.6	1125	13.49
12/16/2010 13:00	18959	1_60	2010	350	1300	24.44	232.9	IL	3.106	304.4	1220	13.46
12/16/2010 14:00	18960	1_60	2010	350	1400	24.44	207.9	IL	2.867	313.2	1345	13.43
12/16/2010 15:00	18961	1_60	2010	350	1500	24.44	151.7	IL	3.789	325.3	1446	13.42
12/16/2010 16:00	18962	1_60	2010	350	1600	24.43	104.7	IL	3.55	334.4	1502	13.42
12/16/2010 17:00	18963	1_60	2010	350	1700	24.44	23.67	IL	2.048	293.7	1600	13.44
12/16/2010 18:00	18964	1_60	2010	350	1800	24.44	0.266	IL	2.048	297.6	1759	13.47
12/16/2010 19:00	18965	1_60	2010	350	1900	24.45	0.021	IL	3.243	306.8	1804	13.51
12/16/2010 20:00	18966	1_60	2010	350	2000	24.45	0.019	IL	2.935	287.2	1901	13.53
12/16/2010 21:00	18967	1_60	2010	350	2100	24.46	0.02	IL	1.946	299.7	2059	13.54
12/16/2010 22:00	18968	1_60	2010	350	2200	24.46	0.026	IL	2.97	237.4	2140	13.56
12/16/2010 23:00	18969	1_60	2010	350	2300	24.47	0.057	IL	2.731	230.8	2257	13.58
12/17/2010 0:00	18970	1_60	2010	351	0	24.48	0.06	IL	2.662	122.3	2357	13.58
12/17/2010 1:00	18971	1_60	2010	351	100	24.48	0.063	IL	2.458	136.3	0	13.6
12/17/2010 2:00	18972	1_60	2010	351	200	24.48	0.058	IL	2.389	216.7	136	13.61
12/17/2010 3:00	18973	1_60	2010	351	300	24.49	0.046	IL	1.638	103.4	204	13.62
12/17/2010 4:00	18974	1_60	2010	351	400	24.48	0.039	IL	3.106	263.6	320	13.63
12/17/2010 5:00	18975	1_60	2010	351	500	24.49	0.041	IL	3.106	239.7	453	13.63
12/17/2010 6:00	18976	1_60	2010	351	600	24.5	0.038	IL	2.048	96.3	547	13.63
12/17/2010 7:00	18977	1_60	2010	351	700	24.52	0.045	IL	3.243	130.9	635	13.65
12/17/2010 8:00	18978	1_60	2010	351	800	24.54	9.99	IL	3.106	67.58	758	13.66
12/17/2010 9:00	18979	1_60	2010	351	900	24.55	137.3	IL	3.14	73.72	801	13.62
12/17/2010 10:00	18980	1_60	2010	351	1000	24.57	305.5	IL	2.321	82.4	902	13.59
12/17/2010 11:00	18981	1_60	2010	351	1100	24.55	421	IL	3.584	349.5	1047	13.5
12/17/2010 12:00	18982	1_60	2010	351	1200	24.54	476.3	IL	3.789	322.7	1156	13.43
12/17/2010 13:00	18983	1_60	2010	351	1300	24.51	507.9	IL	3.925	307.8	1200	13.38
12/17/2010 14:00	18984	1_60	2010	351	1400	24.5	488.6	IL	5.7	340.6	1359	13.33
12/17/2010 15:00	18985	1_60	2010	351	1500	24.5	278	IL	5.052	252.9	1438	13.3
12/17/2010 16:00	18986	1_60	2010	351	1600	24.49	122.8	IL	9.18	207	1547	13.33
12/17/2010 17:00	18987	1_60	2010	351	1700	24.5	21.59	IL	7.1	175.9	1606	13.37
12/17/2010 18:00	18988	1_60	2010	351	1800	24.52	0.246	IL	7.953	199.5	1752	13.42
12/17/2010 19:00	18989	1_60	2010	351	1900	24.53	0.042	IL	9.63	224.5	1823	13.45
12/17/2010 20:00	18990	1_60	2010	351	2000	24.54	0.061	IL	8.77	227	1909	13.47
12/17/2010 21:00	18991	1_60	2010	351	2100	24.54	0.065	IL	9.35	218.5	2042	13.47
12/17/2010 22:00	18992	1_60	2010	351	2200	24.55	0.06	IL	8.64	209.9	2109	13.48
12/17/2010 23:00	18993	1_60	2010	351	2300	24.55	0.06	IL	3.072	333.8	2255	13.5

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
12/18/2010 0:00	18994	1_60	2010	352	0	1.215243	274.8383	23.43425	0.011	0.249	0.011	0.405	-0.368	-0.311	0.05678721	0	89.2	31.65
12/18/2010 1:00	18995	1_60	2010	352	100	0.8406026	162.2696	22.40348	0	0	0	0.009	-0.785	-0.668	0.1174265	0.01	94.4	30.81
12/18/2010 2:00	18996	1_60	2010	352	200	0.9064624	87.70161	14.55073	0	0.005	0	0	-0.987	-0.95	0.03687551	0.02	96.1	30.55
12/18/2010 3:00	18997	1_60	2010	352	300	0.7026899	261.059	22.33692	0	0.007	0	0.005	-1.053	-0.991	0.061719	0	96.7	30.39
12/18/2010 4:00	18998	1_60	2010	352	400	1.170745	302.7866	14.19232	-0.009	0.088	-0.003	0.036	-1.039	-1.04	-0.000458756	0	97.2	30.39
12/18/2010 5:00	18999	1_60	2010	352	500	0.8198826	241.1031	21.1207	0	0.014	0	0.01	-1.143	-1.155	-0.01186017	0.01	97.5	30.2
12/18/2010 6:00	19000	1_60	2010	352	600	0.5640808	81.60023	16.35595	0	0.011	0	0	-1.247	-1.174	0.07289325	0.01	97.7	30.01
12/18/2010 7:00	19001	1_60	2010	352	700	0.7063644	268.4737	16.77369	0	0.008	0	0	-1.155	-1.207	-0.05164852	0.02	97.8	30.17
12/18/2010 8:00	19002	1_60	2010	352	800	0.0498633	229.9834	17.09851	0	0	0	0	-0.985	-1.065	-0.08012004	0.04	97.7	30.47
12/18/2010 9:00	19003	1_60	2010	352	900	1.097069	95.55209	10.81352	-0.006	0.101	-0.001	0.025	-0.474	-0.579	-0.1047834	0.05	97.8	31.56
12/18/2010 10:00	19004	1_60	2010	352	1000	2.053539	303.309	11.93531	-0.004	0.175	-0.085	0.657	-0.204	-0.282	-0.07729797	0.04	97.6	32.11
12/18/2010 11:00	19005	1_60	2010	352	1100	1.551496	295.8504	22.59178	0	0.094	0.006	0.121	-0.232	-0.364	-0.1316501	0	97.6	32.18
12/18/2010 12:00	19006	1_60	2010	352	1200	0.7482281	302.4735	44.80564	0.131	1.456	0	0.049	0.206	0.011	-0.1941861	0.02	96.7	33.42
12/18/2010 13:00	19007	1_60	2010	352	1300	0.8852461	265.6847	40.78324	0.094	2.179	0.028	1.684	0.819	0.652	-0.166391	0	95.8	34.45
12/18/2010 14:00	19008	1_60	2010	352	1400	0.8589324	114.8391	41.96942	0.228	1.685	0.229	1.729	1.931	1.764	-0.1677876	0	93.9	36.51
12/18/2010 15:00	19009	1_60	2010	352	1500	0.7346869	285.6455	28.31236	0.082	0.873	0.031	0.447	2.09	1.998	-0.09246822	0	93.8	36.55
12/18/2010 16:00	19010	1_60	2010	352	1600	0.9579129	277.1137	57.60452	-0.008	0.402	0.045	0.473	1.596	1.57	-0.02585728	0	95.3	35.36
12/18/2010 17:00	19011	1_60	2010	352	1700	1.452656	340.9628	35.3746	0.233	2.529	0.099	2.924	1.6	1.914	0.3136241	0	96.4	35.14
12/18/2010 18:00	19012	1_60	2010	352	1800	1.221601	344.1673	62.99577	0.887	11.34	0.997	10	1.338	1.677	0.3394328	0	96.6	34.6
12/18/2010 19:00	19013	1_60	2010	352	1900	0.8298952	357.7144	58.58254	-0.259	6.742	0.199	5.769	2.023	2.667	0.6438386	0	95.1	35.63
12/18/2010 20:00	19014	1_60	2010	352	2000	1.550959	10.65458	50.13551	-0.012	5.309	0.199	5.379	2.15	2.866	0.7159827	0	93.3	36.09
12/18/2010 21:00	19015	1_60	2010	352	2100	1.436959	311.5063	45.68122	0.007	1.389	-0.054	1.082	0.897	1.251	0.3540692	0	96.6	33.86
12/18/2010 22:00	19016	1_60	2010	352	2200	0.8797528	115.3715	26.82452	-0.152	2.173	-0.111	1.338	1.324	2.265	0.9402502	0	96.6	34.55
12/18/2010 23:00	19017	1_60	2010	352	2300	1.134614	279.5016	58.57289	0.119	1.454	0.387	2.577	1.158	1.6	0.4422539	0	96.4	34.25
12/19/2010 0:00	19018	1_60	2010	353	0	1.276188	111.0422	43.99863	0.196	8.79	0.767	8.53	1.436	2.19	0.7539588	0	96	34.65
12/19/2010 1:00	19019	1_60	2010	353	100	1.4336	356.7257	58.31938	0.171	14.52	-1.92	13.94	2.42	3.482	1.06205	0	92.8	36.52
12/19/2010 2:00	19020	1_60	2010	353	200	1.404522	292.6834	48.49591	-0.984	10.47	-1.141	10.29	1.914	2.488	0.5733901	0	92.3	35.95
12/19/2010 3:00	19021	1_60	2010	353	300	1.720005	290.5956	62.87202	1.4	9.86	1.992	9.72	1.768	2.59	0.8217959	0	95.2	35.3
12/19/2010 4:00	19022	1_60	2010	353	400	1.445146	295.2148	47.40169	-0.491	6.624	-0.677	7.198	2.335	3	0.664461	0	93.7	36.4
12/19/2010 5:00	19023	1_60	2010	353	500	1.487353	346.145	51.79745	0.992	7.884	-0.541	9.12	2.635	3.112	0.4767142	0.01	93.6	36.93
12/19/2010 6:00	19024	1_60	2010	353	600	1.318563	86.37537	47.21192	1.935	16.88	2.803	16.15	4.101	4.888	0.7860744	0.03	92	39.27
12/19/2010 7:00	19025	1_60	2010	353	700	2.016422	198.7996	60.65112	4.005	29.17	11.05	31.54	5.518	5.961	0.4428917	0.06	85.5	42.14
12/19/2010 8:00	19026	1_60	2010	353	800	2.494625	167.6891	55.58255	-0.707	38.97	11.18	42.49	5.827	6.202	0.3749541	0.01	83	42.69
12/19/2010 9:00	19027	1_60	2010	353	900	1.64414	323.9964	80.32889	0.897	32.76	1.357	32.72	6.257	6.529	0.2723103	0.01	81.8	43.43
12/19/2010 10:00	19028	1_60	2010	353	1000	2.207599	204.5935	76.05392	4.565	39.8	11.73	40.85	6.817	7.064	0.2464607	0	79.6	44.46
12/19/2010 11:00	19029	1_60	2010	353	1100	5.26326	201.5007	23.46278	2.544	50.59	35.52	54.82	7.413	7.593	0.1801239	0	77.85	45.52
12/19/2010 12:00	19030	1_60	2010	353	1200	7.112111	191.8551	15.03054	4.921	48.48	54.56	53.06	7.774	7.917	0.1426391	0	76.76	46.12
12/19/2010 13:00	19031	1_60	2010	353	1300	6.577549	191.1744	15.75129	0.916	42.3	44.96	46.06	8.17	8.24	0.07071394	0	75.39	46.82
12/19/2010 14:00	19032	1_60	2010	353	1400	5.815348	187.9565	25.11986	-1.519	55.5	32.49	61.51	8.62	8.7	0.07684956	0.01	72.66	47.65
12/19/2010 15:00	19033	1_60	2010	353	1500	7.365917	190.2486	20.22023	1.073	60.69	49.93	68.31	9	9.08	0.08302102	0	72.66	48.36
12/19/2010 16:00	19034	1_60	2010	353	1600	7.496536	189.6063	16.77847	4.304	58.86	55.42	63.99	9.16	9.28	0.1222653	0	72.6	48.64
12/19/2010 17:00	19035	1_60	2010	353	1700	6.270247	196.3279	25.36331	3.577	58.09	41.57	64.43	9.46	9.69	0.2371425	0	70.96	49.19
12/19/2010 18:00	19036	1_60	2010	353	1800	7.561816	190.6473	23.84151	3.605	63.31	54.76	70.3	9.69	9.91	0.2221154	0	69.25	49.62
12/19/2010 19:00	19037	1_60	2010	353	1900	5.388183	190.5586	29.29634	0.032	60.24	31.94	63.52	9.79	9.99	0.2009281	0	68.47	49.76
12/19/2010 20:00	19038	1_60	2010	353	2000	7.31056	192.7065	27.40806	1.394	75.89	46.13	84	9.83	10.02	0.1905321	0	67.2	49.86
12/19/2010 21:00	19039	1_60	2010	353	2100	8.590842	197.164	21.58256	2.19	75.25	58.58	85.3	9.69	9.91	0.2173073	0	65.63	49.63
12/19/2010 22:00	19040	1_60	2010	353	2200	8.638213	201.168	16.86961	4.791	67.54	61.75	72.95	9.3	9.52	0.2265897	0	66.86	48.94
12/19/2010 23:00	19041	1_60	2010	353	2300	8.83864	192.7557	19.89741	7.67	79.56	67.21	86.7	9.32	9.55	0.2274987	0	64.33	48.98
12/20/2010 0:00	19042	1_60	2010	354	0	8.141259	198.7917	22.32821	4.738	67.75	58.14	75.83	9.4	9.6	0.2024568	0	62.04	49.09
12/20/2010 1:00	19043	1_60	2010	354	100	8.816722	196.3787	22.88882	4.24	81.3	61.52	88.7	9.36	9.6	0.2401875	0	60.98	49.04
12/20/2010 2:00	19044	1_60	2010	354	200	8.964157	201.1477	19.17016	4.683	74.49	62.63	80.4	9.48	9.7	0.2210168	0	60.09	49.25
12/20/2010 3:00	19045	1_60	2010	354	300	9.300606	203.8692	15.92708	5.875	66.66	68.54	73.21	9.29	9.53	0.2326669	0	61.36	48.95
12/20/2010 4:00	19046	1_60	2010	354	400	9.175918	206.4698	15.61326	5.394	62.73	65.86	68.5	9.19	9.41	0.2268899	0	62.47	48.73
12/20/2010 5:00	19047	1_60	2010	354	500	9.638245	208.4327	14.01913	3.712	62.19	68.72	68.32	8.95	9.16	0.216845	0	64.71	48.34
12/20/2010 6:00	19048	1_60	2010	354	600	9.852849	207.291	15.01018	-1.743	70.83	61.91	77.48	8.45	8.62	0.1677497	0	68.38	47.43
12/20/2010 7:00	19049	1_60	2010	354	700	9.592834	208.1058	15.49967	3.088	74.11	66.87	80.8	8.61	8.75	0.1461277	0	67.43	47.66
12/20/2010 8:00	19050	1_60	2010	354	800	7.776264	207.5076	21.09586	1.722	61.77	49.9	68.71	7.944	8.2	0.2532269	0	72.61	46.64
12/20/2010 9:00	19051	1_60	2010	354	900	8.822853	191.7424	19.99043	0.848	74.08	60.37	83.8	8.65	8.77	0.1164788	0	66.59	47.74
12/20/2010 10:00	19052	1_60	2010	354	1000	8.003466	201.5585	18.16359	3.818	66.05	57.69	71.12	9.19	9.21	0.02585527	0	64.09	48.65
12/20/2010 11:00	19053	1_60	2010	354	1100	8.57461	192.3524	18.09953	3.07	64.38	62.83	72.54	9.28	9.27	-0.01756423	0	64.13	48.8
12/20/2010 12:00	19054	1_60	2010	354	1200	7.332632	201.685	20.64866	4.873	64.91	52.78	71.99	9.21	9.18	-0.02964241	0	65.11	48.66
12/20/2010 13:00	19055	1_60	2010	354	1300	6.795805	203.1703	22.9193	1.047	70.45	42.78	77.67	9.71	9.63	-0.08446214	0	63.05	49.56
12/20/2010 14:00	19056	1_60	2010	354	1400	6.506359	193.7078	24.49221	1.9	63.98	42.96	70.74	9.81	9.77	-0.04317639	0	62.38	49.74
12/20/2010 15:00	19057	1_60	2010	354	1500	5.716558	195.8771	25.08386	3.845	59.68	38.66	63.98	10.09	10.1	0.008113765	0	60.46	50.27
12/20/2010 16:00	19058	1_60	2010	354	1600	7.695612	186.3735	22.34446	-0.709	72.97	49.18	78.16	10.47	10.57	0.1013027	0	56.55	50.95
12/20/2010 17:00	19059	1_60	2010	354	1700	8.969824	185.9981	18.89367	2.369	68.86	63.42	79.15	10.67	10.86	0.1922616	0	54.2	51.36
12/20/2010 18:00	19060	1_60	2010	354	1800	8.38215	195.0545	18.74416	3.511	71.8	58.85	80.9	10.64	10.87	0.2317317	0	53.63	51.33
12/20/2010 19:00	19061	1_60	2010	354	1900	9.531732	190.1439	20.22064	4.161	76.59	70.63	87.7	10.61	10.83	0.2151129	0	53.03	51.28
12/20/2010 20:00	19062	1_60	2010	354	2000	10.85114	185.202	15.63087	-0.415	86.4	73.98	95.1	10.13	10.29	0.1599397	0	54.93	50.39
12/20/2010 21:00	19063	1_60	2010	354	2100	8.535044	182.2205	21.27545	2.873	68.23	60.14	77.58	9.75	9.9	0.152266	0	57.52	49.68
12/20/2010 22:00	19064	1_60	2010	354	2200	10.24596	196.5532	17.22068	2.856	68.03	72.07	73.93	9.55	9.73	0.1744806	0	57.57	49.35
12/20/2010 23:00	19065	1_60	2010	354	2300	10.49828	198.7255	16.12816	6.047	73.67	78.57	82.6	9.56	9.74	0.182626	0	54.34	49.36

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/18/2010 0:00	18994	1_60	2010	352	0	24.55	0.038	IL	2.15	315.7	2300	13.52
12/18/2010 1:00	18995	1_60	2010	352	100	24.54	0.025	IL	1.434	223.7	4	13.54
12/18/2010 2:00	18996	1_60	2010	352	200	24.53	0.03	IL	1.707	90.5	118	13.55
12/18/2010 3:00	18997	1_60	2010	352	300	24.52	0.033	IL	1.434	223.8	248	13.55
12/18/2010 4:00	18998	1_60	2010	352	400	24.51	0.036	IL	2.253	313	316	13.55
12/18/2010 5:00	18999	1_60	2010	352	500	24.5	0.046	IL	1.843	253.2	412	13.56
12/18/2010 6:00	19000	1_60	2010	352	600	24.5	0.049	IL	1.263	103.5	538	13.56
12/18/2010 7:00	19001	1_60	2010	352	700	24.5	0.046	IL	1.229	267.1	628	13.56
12/18/2010 8:00	19002	1_60	2010	352	800	24.49	1.268	IL	0.512	269.3	700	13.56
12/18/2010 9:00	19003	1_60	2010	352	900	24.5	11	IL	2.287	72.75	820	13.55
12/18/2010 10:00	19004	1_60	2010	352	1000	24.5	21.42	IL	3.584	311.1	926	13.55
12/18/2010 11:00	19005	1_60	2010	352	1100	24.49	33.63	IL	2.833	306.1	1040	13.54
12/18/2010 12:00	19006	1_60	2010	352	1200	24.48	69.63	IL	2.389	24.92	1127	13.53
12/18/2010 13:00	19007	1_60	2010	352	1300	24.48	103.5	IL	2.321	242.2	1209	13.52
12/18/2010 14:00	19008	1_60	2010	352	1400	24.48	127	IL	1.741	128.2	1325	13.51
12/18/2010 15:00	19009	1_60	2010	352	1500	24.48	78.46	IL	1.741	15.25	1452	13.49
12/18/2010 16:00	19010	1_60	2010	352	1600	24.48	37.93	IL	2.56	240.7	1545	13.48
12/18/2010 17:00	19011	1_60	2010	352	1700	24.49	10.31	IL	2.628	277.9	1610	13.48
12/18/2010 18:00	19012	1_60	2010	352	1800	24.48	0.144	IL	2.97	61.83	1735	13.49
12/18/2010 19:00	19013	1_60	2010	352	1900	24.49	0.067	IL	2.628	222.8	1807	13.49
12/18/2010 20:00	19014	1_60	2010	352	2000	24.49	0.068	IL	4.335	288.2	1953	13.49
12/18/2010 21:00	19015	1_60	2010	352	2100	24.49	0.066	IL	3.482	309.3	2012	13.49
12/18/2010 22:00	19016	1_60	2010	352	2200	24.48	0.064	IL	2.116	150.7	2108	13.5
12/18/2010 23:00	19017	1_60	2010	352	2300	24.5	0.061	IL	2.526	214.1	2236	13.5
12/19/2010 0:00	19018	1_60	2010	353	0	24.47	0.057	IL	2.662	222.3	2314	13.51
12/19/2010 1:00	19019	1_60	2010	353	100	24.47	0.061	IL	4.369	33.35	9	13.51
12/19/2010 2:00	19020	1_60	2010	353	200	24.47	0.07	IL	3.789	233.2	138	13.5
12/19/2010 3:00	19021	1_60	2010	353	300	24.45	0.064	IL	4.301	288	227	13.5
12/19/2010 4:00	19022	1_60	2010	353	400	24.44	0.066	IL	3.209	334.6	333	13.5
12/19/2010 5:00	19023	1_60	2010	353	500	24.43	0.069	IL	3.379	300.1	409	13.49
12/19/2010 6:00	19024	1_60	2010	353	600	24.43	0.067	IL	3.891	209.7	537	13.48
12/19/2010 7:00	19025	1_60	2010	353	700	24.41	0.078	IL	9.11	231.6	635	13.46
12/19/2010 8:00	19026	1_60	2010	353	800	24.4	1.725	IL	9.11	166.1	719	13.45
12/19/2010 9:00	19027	1_60	2010	353	900	24.41	20.3	IL	5.939	66.09	821	13.43
12/19/2010 10:00	19028	1_60	2010	353	1000	24.41	66.04	IL	10.96	170.5	918	13.42
12/19/2010 11:00	19029	1_60	2010	353	1100	24.42	121.2	IL	13.41	191.3	1033	13.39
12/19/2010 12:00	19030	1_60	2010	353	1200	24.4	96.3	IL	13.62	177.9	1120	13.37
12/19/2010 13:00	19031	1_60	2010	353	1300	24.37	107.6	IL	12.73	160	1251	13.35
12/19/2010 14:00	19032	1_60	2010	353	1400	24.35	74.6	IL	14.54	187.3	1316	13.34
12/19/2010 15:00	19033	1_60	2010	353	1500	24.33	105.4	IL	15.22	195.6	1451	13.34
12/19/2010 16:00	19034	1_60	2010	353	1600	24.32	44.02	IL	16.73	181.3	1513	13.33
12/19/2010 17:00	19035	1_60	2010	353	1700	24.33	10.33	IL	15.46	170	1640	13.33
12/19/2010 18:00	19036	1_60	2010	353	1800	24.32	0.156	IL	18.57	151.9	1752	13.33
12/19/2010 19:00	19037	1_60	2010	353	1900	24.32	0.066	IL	13.11	246.1	1835	13.32
12/19/2010 20:00	19038	1_60	2010	353	2000	24.31	0.063	IL	17.13	239.4	1951	13.32
12/19/2010 21:00	19039	1_60	2010	353	2100	24.31	0.063	IL	19.52	217.6	2037	13.32
12/19/2010 22:00	19040	1_60	2010	353	2200	24.31	0.065	IL	18.6	210.6	2105	13.32
12/19/2010 23:00	19041	1_60	2010	353	2300	24.3	0.063	IL	20.92	208.4	2214	13.33
12/20/2010 0:00	19042	1_60	2010	354	0	24.3	0.064	IL	18.43	163	2351	13.33
12/20/2010 1:00	19043	1_60	2010	354	100	24.28	0.065	IL	20.55	212.2	44	13.33
12/20/2010 2:00	19044	1_60	2010	354	200	24.3	0.066	IL	18.02	150.4	102	13.33
12/20/2010 3:00	19045	1_60	2010	354	300	24.31	0.062	IL	19.66	211.1	207	13.33
12/20/2010 4:00	19046	1_60	2010	354	400	24.31	0.056	IL	16.42	215.9	331	13.33
12/20/2010 5:00	19047	1_60	2010	354	500	24.31	0.056	IL	18.33	206.6	405	13.33
12/20/2010 6:00	19048	1_60	2010	354	600	24.3	0.038	IL	19.8	211.4	527	13.34
12/20/2010 7:00	19049	1_60	2010	354	700	24.32	0.036	IL	19.11	198.8	634	13.34
12/20/2010 8:00	19050	1_60	2010	354	800	24.33	3.206	IL	18.5	220.3	759	13.36
12/20/2010 9:00	19051	1_60	2010	354	900	24.34	38.2	IL	19.32	184.7	837	13.36
12/20/2010 10:00	19052	1_60	2010	354	1000	24.36	94	IL	17.54	219.4	925	13.34
12/20/2010 11:00	19053	1_60	2010	354	1100	24.37	102.4	IL	18.88	218.6	1035	13.33
12/20/2010 12:00	19054	1_60	2010	354	1200	24.37	96.9	IL	15.26	205.2	1124	13.32
12/20/2010 13:00	19055	1_60	2010	354	1300	24.36	135	IL	16.55	214	1257	13.31
12/20/2010 14:00	19056	1_60	2010	354	1400	24.35	102.2	IL	17.27	176.4	1322	13.31
12/20/2010 15:00	19057	1_60	2010	354	1500	24.36	71.5	IL	14.81	233.3	1442	13.3
12/20/2010 16:00	19058	1_60	2010	354	1600	24.37	43.28	IL	17.03	180.8	1541	13.3
12/20/2010 17:00	19059	1_60	2010	354	1700	24.36	13.48	IL	18.47	165.1	1618	13.3
12/20/2010 18:00	19060	1_60	2010	354	1800	24.37	0.159	IL	18.77	176.4	1742	13.3
12/20/2010 19:00	19061	1_60	2010	354	1900	24.37	0.063	IL	23.83	188.7	1846	13.3
12/20/2010 20:00	19062	1_60	2010	354	2000	24.39	0.059	IL	20.92	177.5	1928	13.3
12/20/2010 21:00	19063	1_60	2010	354	2100	24.4	0.059	IL	25.84	181.2	2001	13.31
12/20/2010 22:00	19064	1_60	2010	354	2200	24.39	0.059	IL	21.74	211.3	2135	13.31
12/20/2010 23:00	19065	1_60	2010	354	2300	24.41	0.064	IL	22.08	176.3	2211	13.32

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
12/21/2010 0:00	19066	1_60	2010	355	0	7.46169	187.6608	20.60564	6.033	59.61	57.28	67.25	9.22	9.42	0.2002832	0	54.21	48.78
12/21/2010 1:00	19067	1_60	2010	355	100	6.416526	177.8695	17.83372	2.4	51.69	44.91	56.98	8.56	8.73	0.175333	0	55.27	47.56
12/21/2010 2:00	19068	1_60	2010	355	200	7.260489	183.1805	22.72308	2.636	67.1	49.44	73.42	9.13	9.33	0.1995685	0	47.28	48.59
12/21/2010 3:00	19069	1_60	2010	355	300	9.333614	188.3792	16.47332	3.328	65.07	69.34	71.28	8.83	9	0.1703449	0	48.16	48.05
12/21/2010 4:00	19070	1_60	2010	355	400	9.249305	189.2317	16.55898	7.946	65.61	74.2	72.3	8.44	8.59	0.1514463	0	51.11	47.35
12/21/2010 5:00	19071	1_60	2010	355	500	7.784844	194.5496	15.50823	0.262	59.75	51.14	66.01	7.189	7.309	0.1194491	0	62.31	45.08
12/21/2010 6:00	19072	1_60	2010	355	600	3.821778	183.4148	60.76039	0.884	58.78	19.44	64.62	7.817	7.974	0.1574007	0	56.74	46.18
12/21/2010 7:00	19073	1_60	2010	355	700	4.73374	209.5511	53.88894	4.943	60.44	28.27	65.25	8.66	8.82	0.1605222	0	51.09	47.71
12/21/2010 8:00	19074	1_60	2010	355	800	4.963219	208.1031	40.37608	-1.404	63.24	25.62	69.03	9	9.16	0.1679741	0	47.9	48.32
12/21/2010 9:00	19075	1_60	2010	355	900	6.060813	210.4357	23.95352	3.961	54.9	39.73	60.11	9.3	9.46	0.1534864	0	45.69	48.9
12/21/2010 10:00	19076	1_60	2010	355	1000	4.45419	188.044	58.78485	-0.23	66.34	21.02	73.99	8.63	8.65	0.02559649	0	51.72	47.73
12/21/2010 11:00	19077	1_60	2010	355	1100	2.807513	204.9969	76.21397	3.116	55	8.83	56.94	8.52	8.46	-0.05969774	0	54.24	47.53
12/21/2010 12:00	19078	1_60	2010	355	1200	4.344647	206.0425	45.30636	2.234	49.83	25.67	54.04	8.73	8.56	-0.1789044	0	54.5	47.88
12/21/2010 13:00	19079	1_60	2010	355	1300	5.067299	197.7025	32.31265	5.139	52.82	34.64	57.89	9.31	9.1	-0.209293	0	50.6	48.83
12/21/2010 14:00	19080	1_60	2010	355	1400	4.316402	191.527	45.6778	4.547	51.81	28.48	57.07	10.14	9.9	-0.2346904	0	45.09	50.39
12/21/2010 15:00	19081	1_60	2010	355	1500	3.899237	195.2531	45.77322	1.831	54.09	20.08	60.72	9.86	9.79	-0.07019661	0	46.46	49.89
12/21/2010 16:00	19082	1_60	2010	355	1600	5.8621	170.266	20.17264	7.605	46.72	43.2	52.25	9.77	9.8	0.03272162	0	47.54	49.69
12/21/2010 17:00	19083	1_60	2010	355	1700	5.080617	170.1327	28.50506	6.296	52.44	34.31	57.87	9.02	9.2	0.1755367	0	54.4	48.47
12/21/2010 18:00	19084	1_60	2010	355	1800	3.638229	191.2114	44.10366	0.035	47.29	17.53	50.64	7.833	8.05	0.2197297	0	65.51	46.33
12/21/2010 19:00	19085	1_60	2010	355	1900	2.678581	173.4825	39.31902	-0.826	32.35	9.63	34.43	6.643	7.008	0.3648898	0.03	75.33	44.25
12/21/2010 20:00	19086	1_60	2010	355	2000	2.768518	163.6288	36.61741	1.876	30.73	14.52	34.9	5.872	6.258	0.3864653	0.02	79.21	42.84
12/21/2010 21:00	19087	1_60	2010	355	2100	3.200167	128.9008	26.6426	7.449	25.36	16.27	29.71	5.337	5.701	0.3642863	0.03	82.7	41.95
12/21/2010 22:00	19088	1_60	2010	355	2200	2.115317	70.56789	33.02195	2.618	11.9	0.669	11.56	4.717	5.237	0.5202026	0	86.5	40.73
12/21/2010 23:00	19089	1_60	2010	355	2300	1.267372	312.0658	27.06676	0.154	3.957	-0.017	2.953	4.547	5.246	0.6991336	0	86.9	40.43
12/22/2010 0:00	19090	1_60	2010	356	0	1.113032	357.3575	43.20486	0.789	8.27	-0.708	9.76	4.534	4.937	0.4034052	0.02	89.5	40.31
12/22/2010 1:00	19091	1_60	2010	356	100	1.198247	94.48061	57.72481	0.96	10.08	0.379	9.57	4.498	4.845	0.3464914	0.02	89.7	40.29
12/22/2010 2:00	19092	1_60	2010	356	200	1.177401	187.6954	27.2304	-0.122	2.956	0.344	3.857	4.122	4.736	0.6140524	0	90	39.66
12/22/2010 3:00	19093	1_60	2010	356	300	1.281109	335.9479	46.0878	0.2	1.704	0.242	2.33	3.797	4.53	0.732928	0	91.1	39.1
12/22/2010 4:00	19094	1_60	2010	356	400	1.366639	119.1645	40.92695	0.013	3.478	0.26	4.664	4.012	4.904	0.8922811	0	91.1	39.31
12/22/2010 5:00	19095	1_60	2010	356	500	2.256242	144.5098	12.42381	0.055	1.46	3.45	6.125	3.668	4.868	1.200127	0	91.3	38.88
12/22/2010 6:00	19096	1_60	2010	356	600	2.212598	250.1601	31.00102	0.154	5.016	2.883	8.67	3.203	4.116	0.9134943	0	92.2	38.06
12/22/2010 7:00	19097	1_60	2010	356	700	1.138805	223.0021	46.25814	0.002	0.392	0.334	1.795	3.242	3.571	0.3291652	0	95.9	38.03
12/22/2010 8:00	19098	1_60	2010	356	800	1.888954	155.9771	48.64425	0.32	4.134	1.36	5.339	3.048	4.114	1.066312	0	95.1	37.64
12/22/2010 9:00	19099	1_60	2010	356	900	1.239207	162.6408	45.34161	0.013	0.509	0.674	3.123	3.797	4.135	0.3382167	0	94.7	38.75
12/22/2010 10:00	19100	1_60	2010	356	1000	0.6345946	47.81253	51.98279	0.032	0.688	-0.08	1.193	4.694	4.97	0.2759572	0	92	40.69
12/22/2010 11:00	19101	1_60	2010	356	1100	1.677989	305.9169	19.45245	0.043	2.983	0.032	3.497	4.749	4.646	-0.1036051	0	92.8	40.82
12/22/2010 12:00	19102	1_60	2010	356	1200	1.491454	285.2891	20.79352	0.14	2.928	0.357	3.901	4.481	4.371	-0.1098704	0	94	40.34
12/22/2010 13:00	19103	1_60	2010	356	1300	1.095962	239.0704	28.60814	0.351	3.519	0.929	4.332	5.104	4.924	-0.1802458	0	93	41.35
12/22/2010 14:00	19104	1_60	2010	356	1400	1.643027	100.3267	25.47467	0.894	3.881	0.467	3.569	5.773	5.683	-0.08979023	0	89.4	42.57
12/22/2010 15:00	19105	1_60	2010	356	1500	3.361578	280.1767	50.03071	4.666	14.43	5.609	17.35	6.461	6.377	-0.08399199	0	89	43.78
12/22/2010 16:00	19106	1_60	2010	356	1600	1.651649	308.672	28.69037	0.042	4.057	0.062	4.095	5.862	5.83	-0.03188251	0.01	91.2	42.83
12/22/2010 17:00	19107	1_60	2010	356	1700	2.787154	283.5952	20.13824	3.311	13.94	3.414	13.55	5.416	5.444	0.02745548	0.01	93.9	41.92
12/22/2010 18:00	19108	1_60	2010	356	1800	1.936063	308.5848	45.35804	1.703	13.69	2.101	13.34	5.222	5.477	0.2551897	0.02	95.5	41.56
12/22/2010 19:00	19109	1_60	2010	356	1900	1.670108	270.3726	50.49476	0.037	17.14	2.448	18.87	6.161	6.905	0.7440969	0.02	91.4	43.09
12/22/2010 20:00	19110	1_60	2010	356	2000	1.213037	326.569	77.03384	-0.564	16.99	-0.616	16.99	6.179	6.833	0.6544289	0	89.2	43.2
12/22/2010 21:00	19111	1_60	2010	356	2100	4.201859	167.4919	25.5388	4.969	36.04	27.6	39.62	7.732	8.5	0.7682524	0	77.12	46.13
12/22/2010 22:00	19112	1_60	2010	356	2200	4.136095	149.5534	22.43869	2.137	36.22	19.55	40.2	8.16	8.89	0.7256491	0	69.9	47.03
12/22/2010 23:00	19113	1_60	2010	356	2300	2.526366	148.8809	26.626	1.424	18.87	10.59	22.05	7.569	8.42	0.8476177	0	71.06	46.1
12/23/2010 0:00	19114	1_60	2010	357	0	1.536141	283.2463	62.12605	0.501	7.741	1.837	9.61	6.382	7.441	1.059684	0	77.97	43.88
12/23/2010 1:00	19115	1_60	2010	357	100	2.419364	257.8155	52.73379	0.145	18.09	8.88	23.08	6.137	6.951	0.8135471	0.01	82.8	43.17
12/23/2010 2:00	19116	1_60	2010	357	200	4.581702	218.5932	11.42776	0.695	21.49	25.99	24.83	5.995	6.484	0.4889896	0.03	83.6	43.07
12/23/2010 3:00	19117	1_60	2010	357	300	2.014006	311.2939	26.25222	1.559	10.05	4.176	11.69	5.126	5.789	0.6633286	0	85.6	41.45
12/23/2010 4:00	19118	1_60	2010	357	400	1.729852	200.2976	39.6464	0.299	3.385	1.141	4.209	4.532	5.429	0.8970832	0	89.2	40.46
12/23/2010 5:00	19119	1_60	2010	357	500	1.088432	137.548	16.68223	0.001	0.134	0.188	1.364	4.193	4.821	0.6275319	0	92.3	39.74
12/23/2010 6:00	19120	1_60	2010	357	600	0.9277403	101.5088	31.67982	-0.044	1.407	-0.086	1.638	4.085	4.787	0.702597	0	92.6	39.62
12/23/2010 7:00	19121	1_60	2010	357	700	1.135446	166.0575	17.32281	0.051	0.78	-0.014	0.353	3.728	4.558	0.8294762	0	95	38.93
12/23/2010 8:00	19122	1_60	2010	357	800	1.216879	236.7966	50.09827	0.004	1.347	0.346	2.161	3.139	3.803	0.6645849	0	96	37.87
12/23/2010 9:00	19123	1_60	2010	357	900	1.110638	214.6965	12.7952	0.002	0.105	0.01	0.164	3.73	3.964	0.2335791	0	96.3	38.77
12/23/2010 10:00	19124	1_60	2010	357	1000	0.9619841	128.2394	18.13842	-0.009	1.271	0.123	1.047	4.75	4.726	-0.02479538	0	95.7	40.55
12/23/2010 11:00	19125	1_60	2010	357	1100	1.135787	96.26279	25.4363	0.426	2.301	0.27	1.736	5.263	5.158	-0.1055733	0	93.5	41.66
12/23/2010 12:00	19126	1_60	2010	357	1200	1.484764	317.1345	17.88922	0.963	4.239	-0.25	2.904	5.348	5.272	-0.07575691	0.05	93.3	41.87
12/23/2010 13:00	19127	1_60	2010	357	1300	2.121494	317.4373	17.01446	2.322	12.05	0.478	11.12	5.983	5.728	-0.2549487	0	92.2	42.99
12/23/2010 14:00	19128	1_60	2010	357	1400	1.136578	350.2195	22.63001	3.241	13.41	0.776	11.28	6.875	6.62	-0.2541866	0	81.6	45.3
12/23/2010 15:00	19129	1_60	2010	357	1500	1.041972	4.177282	16.46896	1.036	4.578	0.206	3.532	7.319	7.165	-0.1548727	0	78.71	45.81
12/23/2010 16:00	19130	1_60	2010	357	1600	1.679898	273.1008	13.78156	1.414	8.54	1.111	8.8	7.193	7.084	-0.1091124	0	82	45.45
12/23/2010 17:00	19131	1_60	2010	357	1700	2.73049	301.2827	6.144033	1.937	9.25	1.039	7.905	6.406	6.43	0.02459607	0	89.6	43.7
12/23/2010 18:00	19132	1_60	2010	357	1800	1.514428	280.8236	8.769711	0.094	0.97	0.11	0.723	5.798	6.082	0.2842271	0	90.8	42.65
12/23/2010 19:00	19133	1_60	2010	357	1900	1.361055	270.1727	20.00635	0.19	4.44	1.25	5.005	5.627	6.088	0.4608493	0	91	42.25
12/23/2010 20:00	19134	1_60	2010	357	2000	0.9736545	231.3172	24.93656	-0.197	3.478	0.366	3.395	5.28	5.904	0.6243092	0	86.1	41.75
12/23/2010 21:00	19135	1_60	2010	357	2100	1.524164	319.4937	29.06466	0.102	4.661	0.326	3.54	3.428	5.154	1.725984	0	87.6	38.66
12/23/2010 22:00	19136	1_60	2010	357	2200	1.753534	205.7668	20.09036	-0.362	4.802	0.646	6.705	2.17	4.55	2.380164	0	91.9	36.26
12/23/2010 23:00	19137	1_60	2010	357	2300	1.432514	100.7605	28.96815	0.47	8.81	0.529	8.16	1.592	3.337	1.745742	0	92.2	35.37

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/21/2010 0:00	19066	1_60	2010	355	0	24.41	0.063	IL	16.76	167.1	2319	13.32
12/21/2010 1:00	19067	1_60	2010	355	100	24.42	0.055	IL	16.21	205.8	42	13.33
12/21/2010 2:00	19068	1_60	2010	355	200	24.42	0.062	IL	17.24	187.4	159	13.34
12/21/2010 3:00	19069	1_60	2010	355	300	24.44	0.062	IL	18.5	166.7	210	13.34
12/21/2010 4:00	19070	1_60	2010	355	400	24.45	0.055	IL	18.06	203.3	327	13.34
12/21/2010 5:00	19071	1_60	2010	355	500	24.44	0.033	IL	15.97	190.7	405	13.35
12/21/2010 6:00	19072	1_60	2010	355	600	24.46	0.032	IL	14.54	176.2	501	13.37
12/21/2010 7:00	19073	1_60	2010	355	700	24.47	0.047	IL	15.16	207.4	608	13.36
12/21/2010 8:00	19074	1_60	2010	355	800	24.48	2.393	IL	16.66	212.5	707	13.35
12/21/2010 9:00	19075	1_60	2010	355	900	24.5	21.75	IL	16.93	160.9	848	13.34
12/21/2010 10:00	19076	1_60	2010	355	1000	24.54	63	IL	16.38	187.3	902	13.34
12/21/2010 11:00	19077	1_60	2010	355	1100	24.55	90.4	IL	9.52	278.8	1037	13.33
12/21/2010 12:00	19078	1_60	2010	355	1200	24.54	149.7	IL	13.79	212.2	1145	13.29
12/21/2010 13:00	19079	1_60	2010	355	1300	24.53	182.4	IL	14.78	204.1	1210	13.32
12/21/2010 14:00	19080	1_60	2010	355	1400	24.53	191.1	IL	15.77	220.5	1312	13.3
12/21/2010 15:00	19081	1_60	2010	355	1500	24.55	78.75	IL	11.47	229.3	1415	13.29
12/21/2010 16:00	19082	1_60	2010	355	1600	24.56	40.32	IL	12.42	149.6	1525	13.3
12/21/2010 17:00	19083	1_60	2010	355	1700	24.59	8.9	IL	14.88	168.9	1627	13.31
12/21/2010 18:00	19084	1_60	2010	355	1800	24.61	0.082	IL	13.52	167.2	1740	13.35
12/21/2010 19:00	19085	1_60	2010	355	1900	24.63	0.022	IL	7.851	139.7	1822	13.38
12/21/2010 20:00	19086	1_60	2010	355	2000	24.63	0.055	IL	8.64	195.4	1907	13.4
12/21/2010 21:00	19087	1_60	2010	355	2100	24.63	0.07	IL	9.45	144.5	2017	13.42
12/21/2010 22:00	19088	1_60	2010	355	2200	24.64	0.09	IL	4.369	103.8	2114	13.43
12/21/2010 23:00	19089	1_60	2010	355	2300	24.65	0.097	IL	2.389	2.763	2253	13.44
12/22/2010 0:00	19090	1_60	2010	356	0	24.66	0.097	IL	3.243	350.2	2311	13.44
12/22/2010 1:00	19091	1_60	2010	356	100	24.66	0.099	IL	4.335	80.7	38	13.44
12/22/2010 2:00	19092	1_60	2010	356	200	24.65	0.099	IL	2.901	106.4	124	13.44
12/22/2010 3:00	19093	1_60	2010	356	300	24.66	0.1	IL	3.209	58.96	226	13.45
12/22/2010 4:00	19094	1_60	2010	356	400	24.64	0.103	IL	3.072	78.1	356	13.45
12/22/2010 5:00	19095	1_60	2010	356	500	24.63	0.098	IL	3.447	172.5	419	13.45
12/22/2010 6:00	19096	1_60	2010	356	600	24.64	0.093	IL	3.891	129.2	509	13.46
12/22/2010 7:00	19097	1_60	2010	356	700	24.64	0.093	IL	2.799	291.6	600	13.46
12/22/2010 8:00	19098	1_60	2010	356	800	24.64	4.755	IL	3.413	205.3	729	13.47
12/22/2010 9:00	19099	1_60	2010	356	900	24.65	46.2	IL	3.311	158.5	804	13.47
12/22/2010 10:00	19100	1_60	2010	356	1000	24.65	46.33	IL	2.423	17.06	932	13.44
12/22/2010 11:00	19101	1_60	2010	356	1100	24.65	51.29	IL	2.799	307.3	1032	13.42
12/22/2010 12:00	19102	1_60	2010	356	1200	24.62	48.65	IL	3.004	294.7	1117	13.42
12/22/2010 13:00	19103	1_60	2010	356	1300	24.59	96.3	IL	2.799	242.9	1225	13.41
12/22/2010 14:00	19104	1_60	2010	356	1400	24.56	66.88	IL	3.823	65.43	1352	13.4
12/22/2010 15:00	19105	1_60	2010	356	1500	24.56	107.3	IL	8.43	327.7	1428	13.39
12/22/2010 16:00	19106	1_60	2010	356	1600	24.54	31.51	IL	3.379	302.6	1500	13.38
12/22/2010 17:00	19107	1_60	2010	356	1700	24.55	8.07	IL	6.588	330.7	1634	13.39
12/22/2010 18:00	19108	1_60	2010	356	1800	24.55	0.324	IL	3.311	253.5	1733	13.4
12/22/2010 19:00	19109	1_60	2010	356	1900	24.53	0.074	IL	6.724	222.6	1819	13.41
12/22/2010 20:00	19110	1_60	2010	356	2000	24.54	0.069	IL	2.628	293.3	1916	13.41
12/22/2010 21:00	19111	1_60	2010	356	2100	24.55	0.07	IL	9.86	190.1	2054	13.4
12/22/2010 22:00	19112	1_60	2010	356	2200	24.53	0.066	IL	12.32	175	2106	13.38
12/22/2010 23:00	19113	1_60	2010	356	2300	24.53	0.061	IL	7.339	173.1	2204	13.38
12/23/2010 0:00	19114	1_60	2010	357	0	24.52	0.056	IL	5.632	149.7	2310	13.38
12/23/2010 1:00	19115	1_60	2010	357	100	24.52	0.06	IL	7.646	201.7	48	13.39
12/23/2010 2:00	19116	1_60	2010	357	200	24.53	0.055	IL	8.09	211.2	114	13.4
12/23/2010 3:00	19117	1_60	2010	357	300	24.53	0.068	IL	5.973	221	206	13.42
12/23/2010 4:00	19118	1_60	2010	357	400	24.53	0.081	IL	3.004	185.5	330	13.42
12/23/2010 5:00	19119	1_60	2010	357	500	24.51	0.09	IL	2.185	182.5	458	13.43
12/23/2010 6:00	19120	1_60	2010	357	600	24.52	0.088	IL	2.423	178	507	13.43
12/23/2010 7:00	19121	1_60	2010	357	700	24.5	0.083	IL	3.038	70.3	649	13.44
12/23/2010 8:00	19122	1_60	2010	357	800	24.52	1.624	IL	3.072	198.6	710	13.45
12/23/2010 9:00	19123	1_60	2010	357	900	24.54	23.39	IL	2.219	60.39	806	13.45
12/23/2010 10:00	19124	1_60	2010	357	1000	24.55	51.28	IL	2.014	139.2	930	13.41
12/23/2010 11:00	19125	1_60	2010	357	1100	24.56	64.63	IL	2.423	42.76	1014	13.4
12/23/2010 12:00	19126	1_60	2010	357	1200	24.55	51.69	IL	2.867	1.593	1159	13.41
12/23/2010 13:00	19127	1_60	2010	357	1300	24.55	196.6	IL	3.447	351	1208	13.4
12/23/2010 14:00	19128	1_60	2010	357	1400	24.55	268.1	IL	2.321	328.2	1340	13.36
12/23/2010 15:00	19129	1_60	2010	357	1500	24.56	120.9	IL	2.321	30.24	1416	13.34
12/23/2010 16:00	19130	1_60	2010	357	1600	24.57	77.52	IL	4.608	303.4	1554	13.34
12/23/2010 17:00	19131	1_60	2010	357	1700	24.59	22.47	IL	4.779	300.5	1600	13.35
12/23/2010 18:00	19132	1_60	2010	357	1800	24.6	0.301	IL	2.219	298.1	1724	13.37
12/23/2010 19:00	19133	1_60	2010	357	1900	24.63	0.061	IL	2.662	242.4	1853	13.38
12/23/2010 20:00	19134	1_60	2010	357	2000	24.64	0.065	IL	3.038	276.7	1959	13.4
12/23/2010 21:00	19135	1_60	2010	357	2100	24.65	0.066	IL	3.55	274.5	2000	13.45
12/23/2010 22:00	19136	1_60	2010	357	2200	24.67	0.064	IL	2.799	241.9	2133	13.49
12/23/2010 23:00	19137	1_60	2010	357	2300	24.7	0.048	IL	2.594	116.2	2255	13.52

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/24/2010 0:00	19138	1_60	2010	358	0	1.625781	128.1671	34.64902	0.14	5.247	0.255	3.972	1.383	3.218	1.835202	0	92.3	34.95
12/24/2010 1:00	19139	1_60	2010	358	100	1.482968	120.1699	12.79876	-0.05	0.685	-0.066	1.184	1.263	3.257	1.993681	0	93.4	34.58
12/24/2010 2:00	19140	1_60	2010	358	200	1.536793	217.8864	26.24628	0.103	1.714	0.386	2.615	1.76	3.682	1.921604	0	88.3	35.64
12/24/2010 3:00	19141	1_60	2010	358	300	1.235712	148.8306	29.83892	0.054	2.095	0.169	2.255	0.273	2.905	2.632492	0	90.3	33.06
12/24/2010 4:00	19142	1_60	2010	358	400	0.9986207	289.8914	39.20815	-0.099	1.729	0.088	3.058	-0.079	2.012	2.091015	0	90.2	32.41
12/24/2010 5:00	19143	1_60	2010	358	500	1.69234	130.0843	13.39751	-0.001	0.157	0.097	0.832	-1.074	1.502	2.576635	0	92.9	30.49
12/24/2010 6:00	19144	1_60	2010	358	600	0.4995971	63.36508	34.04726	-0.004	0.12	0.028	0.826	-1.654	0.411	2.065368	0	93.2	29.29
12/24/2010 7:00	19145	1_60	2010	358	700	1.207402	131.1825	19.18044	0	0.073	0.023	0.296	-2.414	-0.342	2.072833	0	93.7	28.13
12/24/2010 8:00	19146	1_60	2010	358	800	1.420117	124.7585	15.99927	-0.005	1.482	0.046	1.065	-2.081	0.143	2.223978	0	93.9	28.85
12/24/2010 9:00	19147	1_60	2010	358	900	1.036712	31.28369	50.01973	1.052	6.087	1.039	5.702	-1.73	-1.383	0.3470884	0	94.7	29.85
12/24/2010 10:00	19148	1_60	2010	358	1000	1.245943	118.6142	16.78495	1.871	6.723	1.588	6.78	-0.48	-0.73	-0.2500876	0	97.3	31.83
12/24/2010 11:00	19149	1_60	2010	358	1100	1.210705	98.96281	24.16356	4.164	14.49	3.709	14.24	1.619	1.337	-0.2823305	0	95.5	35.99
12/24/2010 12:00	19150	1_60	2010	358	1200	1.062824	74.98029	41.37926	2.253	21.64	2.866	20.93	2.977	2.422	-0.5551336	0	83.8	39.42
12/24/2010 13:00	19151	1_60	2010	358	1300	0.8836526	6.833965	55.20554	-1.19	24.94	-2.188	23.46	4.937	3.69	-1.247225	0	73.93	42.98
12/24/2010 14:00	19152	1_60	2010	358	1400	1.070416	176.238	52.73125	6.294	23.73	9.76	25.79	7.088	6.168	-0.9199304	0	60.62	46.24
12/24/2010 15:00	19153	1_60	2010	358	1500	1.699041	237.2359	36.322	0.027	23.24	5.436	24.69	7.675	7.1	-0.5752684	0	55.46	46.97
12/24/2010 16:00	19154	1_60	2010	358	1600	1.466362	255.8779	31.61689	3.435	15.8	7.649	17.68	7.736	7.287	-0.4487244	0	55.03	47.29
12/24/2010 17:00	19155	1_60	2010	358	1700	1.38695	243.358	10.7957	-0.542	4.873	0.077	3.158	4.662	5.919	1.257506	0	65.53	41.52
12/24/2010 18:00	19156	1_60	2010	358	1800	0.9012596	238.0061	9.575459	-0.015	0.528	-0.01	0.355	2.139	4.879	2.740399	0	77.2	36.64
12/24/2010 19:00	19157	1_60	2010	358	1900	1.089017	160.2614	22.10723	-0.005	0.232	0.012	0.291	0.38	2.61	2.230282	0	85.3	33.39
12/24/2010 20:00	19158	1_60	2010	358	2000	0.8100033	132.3991	32.09212	0.112	3.145	0.032	2.871	-0.266	1.974	2.240223	0	87.6	32.22
12/24/2010 21:00	19159	1_60	2010	358	2100	1.73926	133.3924	17.13046	-0.004	1.252	0.238	1.93	-0.829	1.649	2.478014	0	92.3	30.87
12/24/2010 22:00	19160	1_60	2010	358	2200	1.051758	152.2423	29.5208	-0.07	1.22	0.048	0.593	-0.78	1.682	2.462273	0	91.4	30.98
12/24/2010 23:00	19161	1_60	2010	358	2300	0.8368289	149.6175	44.23869	-0.054	0.971	0.095	0.999	-0.142	1.528	1.669787	0	89.1	32.09
12/25/2010 0:00	19162	1_60	2010	359	0	1.146362	302.9702	28.36331	0.008	0.216	0.009	0.252	-1.914	-0.459	1.454927	0	91.9	29.24
12/25/2010 1:00	19163	1_60	2010	359	100	0.9669918	136.0306	36.10674	-0.002	0.072	0.004	0.114	-2.342	-0.614	1.728511	0	95.3	28.07
12/25/2010 2:00	19164	1_60	2010	359	200	0.812144	147.3719	27.10278	0.002	0.15	0.039	0.654	-2.351	-0.623	1.728317	0	94.8	28.53
12/25/2010 3:00	19165	1_60	2010	359	300	1.221342	123.0372	13.36243	0.004	0.179	-0.001	0.094	-3.027	-0.236	2.790884	0	94.3	27.15
12/25/2010 4:00	19166	1_60	2010	359	400	0.8279875	105.3966	31.85729	0.083	1.272	0.142	2.055	-3.18	-1.393	1.786666	0	94.6	26.68
12/25/2010 5:00	19167	1_60	2010	359	500	0.6819262	320.3526	22.47001	0.174	1.692	0.03	0.423	-3.958	-2.934	1.023445	0	95	25.38
12/25/2010 6:00	19168	1_60	2010	359	600	1.187976	44.34689	25.27165	0.012	0.219	0	0.028	-4.709	-3.406	1.303553	0	95.8	23.91
12/25/2010 7:00	19169	1_60	2010	359	700	1.279992	150.3421	33.70979	-0.005	0.189	0.001	0.148	-5.035	-3.177	1.858251	0	96.2	23.33
12/25/2010 8:00	19170	1_60	2010	359	800	1.336619	117.5537	15.65838	0.004	0.15	0	0.03	-4.916	-2.977	1.939014	0	95.1	23.65
12/25/2010 9:00	19171	1_60	2010	359	900	0.6907707	118.0304	17.65165	0.508	2.929	0.181	1.347	-2.317	-1.644	0.6722546	0	91.6	29.64
12/25/2010 10:00	19172	1_60	2010	359	1000	1.378184	302.7507	27.52569	1.625	13.54	2.01	12.77	-0.616	-0.927	-0.3113433	0	87.9	32.66
12/25/2010 11:00	19173	1_60	2010	359	1100	1.830137	285.4754	9.894133	1.204	12.02	2.937	12.21	-1.576	-1.941	-0.3647707	0	92.8	29.73
12/25/2010 12:00	19174	1_60	2010	359	1200	1.97435	309.2727	16.88097	3.708	20.65	2.094	20.34	0.668	0.168	-0.5007294	0	86.5	34
12/25/2010 13:00	19175	1_60	2010	359	1300	1.363792	304.1488	24.44537	0.75	20.43	-0.216	19.38	1.675	1.299	-0.3758493	0	83	35.85
12/25/2010 14:00	19176	1_60	2010	359	1400	1.417982	302.679	24.45909	2.789	25.26	2.248	25.41	3.561	3.139	-0.4214413	0	75.39	39.56
12/25/2010 15:00	19177	1_60	2010	359	1500	1.65876	277.4049	19.87338	-0.649	22.19	1.635	23.43	5.316	4.812	-0.5040409	0	67.38	42.52
12/25/2010 16:00	19178	1_60	2010	359	1600	1.614274	244.7004	23.90344	-1.247	17.27	4.425	18.6	5.851	5.347	-0.5036945	0	60.87	43.9
12/25/2010 17:00	19179	1_60	2010	359	1700	1.269335	236.9114	11.25884	1.06	6.361	2.962	8.02	3.145	4.381	1.235706	0	70.88	38.77
12/25/2010 18:00	19180	1_60	2010	359	1800	0.8339323	161.7192	24.12957	-0.005	0.202	0.008	0.187	-0.287	2.67	2.956504	0	86.4	31.95
12/25/2010 19:00	19181	1_60	2010	359	1900	0.8430236	207.4197	8.954672	0	0.093	0.008	0.168	-0.244	2.518	2.761961	0	88.9	31.62
12/25/2010 20:00	19182	1_60	2010	359	2000	1.398742	280.0328	37.72221	0.002	0.173	0.001	0.088	-0.766	1.302	2.067682	0	87.4	31.21
12/25/2010 21:00	19183	1_60	2010	359	2100	0.8684357	161.9675	29.7723	-0.357	2.183	-0.256	1.921	-1.146	0.481	1.626825	0	91.4	30.16
12/25/2010 22:00	19184	1_60	2010	359	2200	0.6869142	118.5399	19.67558	0	0.005	0	0.007	-1.866	0.053	1.918985	0	91.2	29.22
12/25/2010 23:00	19185	1_60	2010	359	2300	0.6832351	292.551	25.86194	-0.029	0.546	-0.002	0.043	-2.74	-0.707	2.033104	0	93.5	27.58
12/26/2010 0:00	19186	1_60	2010	360	0	1.074998	120.1412	9.122203	-0.002	0.092	0	0.026	-2.956	-0.794	2.162174	0	94.8	27.16
12/26/2010 1:00	19187	1_60	2010	360	100	0.6559877	136.7383	20.67831	0	0	0	0.011	-3.179	-0.683	2.495678	0	95	26.61
12/26/2010 2:00	19188	1_60	2010	360	200	1.183283	140.3625	45.47968	0	0.126	-0.003	0.085	-3.58	-1.64	1.940556	0	94.9	25.96
12/26/2010 3:00	19189	1_60	2010	360	300	1.14318	104.0258	15.72475	-0.155	2.182	-0.158	1.567	-4.162	-1.961	2.200661	0	94	24.87
12/26/2010 4:00	19190	1_60	2010	360	400	1.693373	7.030802	27.71732	0.097	2.373	0.146	2.524	-4.231	-2.717	1.513991	0	93	24.67
12/26/2010 5:00	19191	1_60	2010	360	500	1.156568	311.6831	23.96168	0.038	1.154	0.155	1.141	-4.635	-3.414	1.220969	0	95.6	24.12
12/26/2010 6:00	19192	1_60	2010	360	600	1.182436	120.3513	8.38505	-0.017	0.85	0.049	0.727	-4.634	-3.514	1.120788	0	96.8	23.89
12/26/2010 7:00	19193	1_60	2010	360	700	2.223442	107.7219	11.94853	0.281	1.813	0.057	1.639	-5.304	-4.353	0.9508828	0	95.7	22.85
12/26/2010 8:00	19194	1_60	2010	360	800	1.999414	89.23866	26.88999	1.309	4.572	1.147	3.99	-4.457	-3.581	0.8760815	0	94.7	24.24
12/26/2010 9:00	19195	1_60	2010	360	900	1.596924	288.8758	22.30417	0.458	6.637	0.917	7.439	-4.789	-4.82	-0.03104164	0	94.5	24.07
12/26/2010 10:00	19196	1_60	2010	360	1000	1.569474	266.6037	30.69609	1.25	12.06	3.14	13.48	-2.913	-3.188	-0.2755382	0	96.4	27.19
12/26/2010 11:00	19197	1_60	2010	360	1100	1.078609	337.4661	50.93518	1.785	17.89	0.836	16.72	-1.104	-1.46	-0.3560498	0	93.4	31.63
12/26/2010 12:00	19198	1_60	2010	360	1200	2.107271	280.5926	23.9302	2.362	11.71	4.292	12.81	-1.047	-1.364	-0.316701	0	93.2	30.7
12/26/2010 13:00	19199	1_60	2010	360	1300	1.839582	299.7813	31.15825	1.416	9.14	0.913	10.44	-0.515	-0.794	-0.278207	0	92.1	31.61
12/26/2010 14:00	19200	1_60	2010	360	1400	1.324228	44.10802	46.9936	2.465	8.26	3.006	9.52	-0.461	-0.716	-0.2553717	0	92.5	31.63
12/26/2010 15:00	19201	1_60	2010	360	1500	1.213948	4.673031	39.49369	1.489	6.005	1.071	6.516	0.18	-0.057	-0.2366244	0	89.3	33.07
12/26/2010 16:00	19202	1_60	2010	360	1600	1.803595	283.8176	29.05939	1.907	8.77	1.382	7.277	0.714	0.574	-0.1394299	0	87.7	34.45
12/26/2010 17:00	19203	1_60	2010	360	1700	1.550698	240.3051	37.61975	0.081	7.52	1.508	8.75	1.045	0.96	-0.08478929	0	90.4	34.59
12/26/2010 18:00	19204	1_60	2010	360	1800	1.159452	151.6208	46.41324	0.111	2.784	0.487	3.129	0.713	1.555	0.8412504	0	91.3	33.88
12/26/2010 19:00	19205	1_60	2010	360	1900	1.406253	140.8136	47.20691	0.239	3.066	-0.086	3.084	0.564	1.915	1.35036	0	92.3	33.61
12/26/2010 20:00	19206	1_60	2010	360	2000	1.78897	357.533	46.47026	0.667	4.576	0.344	4.751	0.897	1.893	0.9958597	0	90.9	34.09
12/26/2010 21:00	19207	1_60	2010	360	2100	1.723696	289.6573	14.83532	-0.042	0.975	-0.031	1.133	-0.32	0.796	1.116283	0	91.3	31.99
12/26/2010 22:00	19208	1_60	2010	360	2200	1.393956	122.2943	18.9553	0	0.045	0	0.079	-0.513	0.28	0.7930105	0	96.1	31.21
12/26/2010 23:00	19209	1_60	2010	360	2300	1.009838	144.2863	26.18732	-0.164	2.648	-0.161	2.286	0.619	1.519	0.899237	0	91.8	33.31

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/24/2010 0:00	19138	1_60	2010	358	0	24.71	0.044	IL	2.321	48.41	2325	13.54
12/24/2010 1:00	19139	1_60	2010	358	100	24.72	0.042	IL	2.697	119.9	29	13.55
12/24/2010 2:00	19140	1_60	2010	358	200	24.74	0.037	IL	2.799	119.4	108	13.56
12/24/2010 3:00	19141	1_60	2010	358	300	24.75	0.049	IL	2.185	118.4	219	13.57
12/24/2010 4:00	19142	1_60	2010	358	400	24.75	0.06	IL	2.014	100.3	350	13.59
12/24/2010 5:00	19143	1_60	2010	358	500	24.76	0.058	IL	2.731	116.3	421	13.61
12/24/2010 6:00	19144	1_60	2010	358	600	24.78	0.064	IL	1.536	125.2	505	13.62
12/24/2010 7:00	19145	1_60	2010	358	700	24.79	0.066	IL	2.492	126	657	13.64
12/24/2010 8:00	19146	1_60	2010	358	800	24.8	16.28	IL	2.526	131.8	701	13.65
12/24/2010 9:00	19147	1_60	2010	358	900	24.82	100	IL	2.185	52.01	818	13.63
12/24/2010 10:00	19148	1_60	2010	358	1000	24.84	204.6	IL	2.082	95.3	908	13.59
12/24/2010 11:00	19149	1_60	2010	358	1100	24.84	267.3	IL	2.56	96.6	1002	13.53
12/24/2010 12:00	19150	1_60	2010	358	1200	24.83	415.3	IL	2.56	81.1	1109	13.47
12/24/2010 13:00	19151	1_60	2010	358	1300	24.81	457.5	IL	3.004	188.8	1251	13.38
12/24/2010 14:00	19152	1_60	2010	358	1400	24.8	467	IL	3.413	162.6	1309	13.32
12/24/2010 15:00	19153	1_60	2010	358	1500	24.8	380.6	IL	3.447	226.3	1415	13.28
12/24/2010 16:00	19154	1_60	2010	358	1600	24.8	204.1	IL	3.038	251.8	1524	13.27
12/24/2010 17:00	19155	1_60	2010	358	1700	24.8	43.75	IL	2.15	251.2	1600	13.31
12/24/2010 18:00	19156	1_60	2010	358	1800	24.8	0.606	IL	1.399	232.7	1717	13.4
12/24/2010 19:00	19157	1_60	2010	358	1900	24.81	0.052	IL	2.048	137.7	1854	13.48
12/24/2010 20:00	19158	1_60	2010	358	2000	24.82	0.015	IL	1.911	46.57	1925	13.54
12/24/2010 21:00	19159	1_60	2010	358	2100	24.82	0.027	IL	2.867	120.6	2040	13.58
12/24/2010 22:00	19160	1_60	2010	358	2200	24.83	0.063	IL	2.15	113.2	2147	13.6
12/24/2010 23:00	19161	1_60	2010	358	2300	24.84	0.066	IL	2.116	148.3	2200	13.61
12/25/2010 0:00	19162	1_60	2010	359	0	24.84	0.065	IL	2.014	303	2311	13.62
12/25/2010 1:00	19163	1_60	2010	359	100	24.85	0.062	IL	1.809	67.28	29	13.64
12/25/2010 2:00	19164	1_60	2010	359	200	24.86	0.066	IL	1.741	136.7	154	13.65
12/25/2010 3:00	19165	1_60	2010	359	300	24.86	0.061	IL	2.116	151	211	13.66
12/25/2010 4:00	19166	1_60	2010	359	400	24.85	0.059	IL	1.98	89.3	317	13.67
12/25/2010 5:00	19167	1_60	2010	359	500	24.84	0.057	IL	1.775	342.8	452	13.68
12/25/2010 6:00	19168	1_60	2010	359	600	24.84	0.063	IL	1.911	55.85	532	13.7
12/25/2010 7:00	19169	1_60	2010	359	700	24.85	0.064	IL	2.15	103.7	637	13.71
12/25/2010 8:00	19170	1_60	2010	359	800	24.85	16.47	IL	2.731	78.35	723	13.72
12/25/2010 9:00	19171	1_60	2010	359	900	24.86	156.1	IL	1.331	63.26	849	13.68
12/25/2010 10:00	19172	1_60	2010	359	1000	24.88	314.1	IL	2.56	299	930	13.59
12/25/2010 11:00	19173	1_60	2010	359	1100	24.88	202	IL	2.492	269.1	1029	13.55
12/25/2010 12:00	19174	1_60	2010	359	1200	24.86	371.1	IL	3.413	276	1148	13.51
12/25/2010 13:00	19175	1_60	2010	359	1300	24.83	296.3	IL	3.004	302	1201	13.46
12/25/2010 14:00	19176	1_60	2010	359	1400	24.8	434.2	IL	2.901	289.1	1318	13.42
12/25/2010 15:00	19177	1_60	2010	359	1500	24.79	362.5	IL	3.721	288	1425	13.36
12/25/2010 16:00	19178	1_60	2010	359	1600	24.79	222	IL	2.833	230.7	1519	13.34
12/25/2010 17:00	19179	1_60	2010	359	1700	24.78	47.03	IL	2.321	221	1603	13.36
12/25/2010 18:00	19180	1_60	2010	359	1800	24.79	0.537	IL	2.492	143.5	1756	13.45
12/25/2010 19:00	19181	1_60	2010	359	1900	24.78	0.035	IL	2.219	143.6	1801	13.53
12/25/2010 20:00	19182	1_60	2010	359	2000	24.78	0.026	IL	2.526	93	1947	13.57
12/25/2010 21:00	19183	1_60	2010	359	2100	24.77	0.059	IL	2.185	106.9	2007	13.61
12/25/2010 22:00	19184	1_60	2010	359	2200	24.77	0.064	IL	1.297	95.2	2111	13.63
12/25/2010 23:00	19185	1_60	2010	359	2300	24.76	0.058	IL	1.604	290.7	2229	13.65
12/26/2010 0:00	19186	1_60	2010	360	0	24.74	0.054	IL	1.946	133.7	2330	13.66
12/26/2010 1:00	19187	1_60	2010	360	100	24.73	0.052	IL	1.399	103.6	17	13.67
12/26/2010 2:00	19188	1_60	2010	360	200	24.72	0.052	IL	2.082	93.3	130	13.68
12/26/2010 3:00	19189	1_60	2010	360	300	24.69	0.061	IL	2.628	112.8	207	13.69
12/26/2010 4:00	19190	1_60	2010	360	400	24.67	0.056	IL	3.55	302.2	343	13.7
12/26/2010 5:00	19191	1_60	2010	360	500	24.67	0.061	IL	1.98	233.4	425	13.71
12/26/2010 6:00	19192	1_60	2010	360	600	24.67	0.064	IL	2.662	119	558	13.71
12/26/2010 7:00	19193	1_60	2010	360	700	24.67	0.063	IL	3.686	87.4	641	13.71
12/26/2010 8:00	19194	1_60	2010	360	800	24.66	10.13	IL	3.652	67.31	742	13.71
12/26/2010 9:00	19195	1_60	2010	360	900	24.66	95.3	IL	3.038	256.5	842	13.69
12/26/2010 10:00	19196	1_60	2010	360	1000	24.66	177	IL	4.198	299.2	918	13.66
12/26/2010 11:00	19197	1_60	2010	360	1100	24.65	359.2	IL	3.755	308.9	1053	13.59
12/26/2010 12:00	19198	1_60	2010	360	1200	24.62	142	IL	4.369	291.4	1131	13.54
12/26/2010 13:00	19199	1_60	2010	360	1300	24.6	105	IL	6.383	310.5	1242	13.54
12/26/2010 14:00	19200	1_60	2010	360	1400	24.59	80.3	IL	2.731	330.2	1341	13.53
12/26/2010 15:00	19201	1_60	2010	360	1500	24.6	70.77	IL	3.14	95.7	1451	13.53
12/26/2010 16:00	19202	1_60	2010	360	1600	24.61	61.07	IL	3.925	247.7	1551	13.51
12/26/2010 17:00	19203	1_60	2010	360	1700	24.61	17.15	IL	3.209	228.4	1612	13.51
12/26/2010 18:00	19204	1_60	2010	360	1800	24.62	0.327	IL	3.14	43.94	1724	13.52
12/26/2010 19:00	19205	1_60	2010	360	1900	24.63	0.04	IL	3.174	32.62	1823	13.53
12/26/2010 20:00	19206	1_60	2010	360	2000	24.64	0.045	IL	3.857	83.3	1908	13.53
12/26/2010 21:00	19207	1_60	2010	360	2100	24.65	0.029	IL	2.765	294.3	2021	13.55
12/26/2010 22:00	19208	1_60	2010	360	2200	24.66	0.049	IL	1.877	105.3	2135	13.57
12/26/2010 23:00	19209	1_60	2010	360	2300	24.67	0.049	IL	1.775	118.7	2203	13.56

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	WSpd_m/s	WDir_Deg	ST	VertWS_EPS_Avg	VertWS_EPS_Std	VertWS_CFT_Avg	VertWS_CFT_Std	Temp2m_Avg	Temp10m_Avg	DeltaT_Avg	Precip_Tot	RH_Avg	RHTemp_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC		in		DegF
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg	Tot	Avg	Avg
12/27/2010 0:00	19210	1_60	2010	361	0	0.9232509	302.3932	45.34801	0.08	1.159	0.053	0.936	-0.367	0.577	0.9442157	0	93.3	31.65
12/27/2010 1:00	19211	1_60	2010	361	100	1.296769	119.6737	36.46749	-0.062	2.459	-0.159	1.933	-1.862	-0.177	1.684581	0	94.7	29.42
12/27/2010 2:00	19212	1_60	2010	361	200	0.8831108	122.9575	16.61168	0	0.015	0	0	-2.365	-0.766	1.599732	0	95.8	28.02
12/27/2010 3:00	19213	1_60	2010	361	300	0.4820481	214.6903	39.80801	-0.217	3.853	-0.1	1.617	-1.193	-0.311	0.8821229	0	95.2	30.17
12/27/2010 4:00	19214	1_60	2010	361	400	0.8150483	161.2213	37.77763	0.004	0.105	0	0.044	-2.333	-0.816	1.516928	0	96.3	28.3
12/27/2010 5:00	19215	1_60	2010	361	500	0.6852759	139.0452	33.35298	0	0.021	0.001	0.032	-2.759	-1.321	1.438688	0	97	27.49
12/27/2010 6:00	19216	1_60	2010	361	600	0.8704057	111.2803	17.96706	-0.063	1.446	-0.007	0.157	-2.934	-2.106	0.8278706	0	97.7	26.77
12/27/2010 7:00	19217	1_60	2010	361	700	0.9171324	127.6473	55.07953	-0.567	6.14	0	0	-2.907	-1.981	0.925864	0	98.5	26.87
12/27/2010 8:00	19218	1_60	2010	361	800	1.090901	200.0175	52.54634	0.972	8.02	0	0.005	-2.223	-1.285	0.937902	0	98.7	28.16
12/27/2010 9:00	19219	1_60	2010	361	900	1.009402	121.6065	52.84727	0.101	1.943	0	0.015	-3.015	-2.724	0.2913597	0	98	27.07
12/27/2010 10:00	19220	1_60	2010	361	1000	1.422673	95.0787	30.38745	3.486	18.34	3.206	18.85	0.786	0.269	-0.5173179	0	86.1	35.25
12/27/2010 11:00	19221	1_60	2010	361	1100	1.658021	255.2885	35.8813	-0.421	20.03	3.017	21.99	1.234	0.874	-0.3595757	0	70.96	37.87
12/27/2010 12:00	19222	1_60	2010	361	1200	2.343194	280.5574	16.70727	-1.385	26.01	1.255	27.36	1.726	1.484	-0.2424286	0	62.33	38.21
12/27/2010 13:00	19223	1_60	2010	361	1300	1.928722	282.6782	23.23436	0.926	26.36	2.55	28.65	3.702	3.565	-0.1374382	0	51.46	40.68
12/27/2010 14:00	19224	1_60	2010	361	1400	2.377974	297.6991	30.46285	6.787	26.01	5.82	27.65	5.291	4.616	-0.6748728	0	43.12	42.51
12/27/2010 15:00	19225	1_60	2010	361	1500	3.261827	270.5865	18.73939	3.889	26.16	11.4	28.7	5.692	4.954	-0.7384241	0	44.31	42.67
12/27/2010 16:00	19226	1_60	2010	361	1600	3.026367	260.6458	14.83514	2.466	18.76	12.49	20.06	4.75	4.527	-0.2231913	0	46.71	41.09
12/27/2010 17:00	19227	1_60	2010	361	1700	3.471352	242.0948	19.58672	2.937	16.41	17.47	17	3.173	3.368	0.1949947	0	57.26	38.07
12/27/2010 18:00	19228	1_60	2010	361	1800	1.726058	266.2848	22.88759	-0.284	16.74	2.909	17.8	2.058	2.52	0.4625633	0	63.07	36.02
12/27/2010 19:00	19229	1_60	2010	361	1900	1.183883	191.2757	40.88226	-1.249	6.662	-0.055	5.968	0.476	1.589	1.113013	0	70.1	33.32
12/27/2010 20:00	19230	1_60	2010	361	2000	1.231071	178.8656	26.28461	0.16	3.596	0.808	4.482	-0.377	1.674	2.051098	0	74.06	31.71
12/27/2010 21:00	19231	1_60	2010	361	2100	0.7458673	204.4972	39.25012	0.071	1.193	0.031	1.704	-1.242	0.695	1.937107	0	76.94	30.35
12/27/2010 22:00	19232	1_60	2010	361	2200	0.6476545	221.7656	30.61275	-0.024	0.898	0.136	1.492	-1.158	1.185	2.3433	0	77.36	30.15
12/27/2010 23:00	19233	1_60	2010	361	2300	0.649232	155.4853	18.02745	-0.074	1.582	0.019	0.781	-2.152	0.534	2.68605	0	82.8	28.59
12/28/2010 0:00	19234	1_60	2010	362	0	0.8841919	159.8004	16.82591	-0.013	0.247	-0.001	0.036	-2.538	0.018	2.556165	0	82.5	28.02
12/28/2010 1:00	19235	1_60	2010	362	100	0.5085552	234.3049	31.47853	-0.103	1.377	-0.104	1.798	-3.167	-0.481	2.685712	0	79.83	27.08
12/28/2010 2:00	19236	1_60	2010	362	200	0.6278875	104.0577	35.81757	-0.018	1.289	-0.045	0.826	-4.396	-2.166	2.229573	0	87.1	24.27
12/28/2010 3:00	19237	1_60	2010	362	300	0.7150346	322.1813	40.6471	-0.024	3.727	0.03	3.089	-4.343	-2.016	2.327756	0	86.7	24.34
12/28/2010 4:00	19238	1_60	2010	362	400	1.43693	104.2473	23.9841	0.001	0.067	-0.005	0.114	-5.798	-3.086	2.712178	0	88	22.35
12/28/2010 5:00	19239	1_60	2010	362	500	1.315188	132.3759	14.4292	0.028	0.836	0.021	0.492	-5.818	-3.606	2.211547	0	90.1	22.13
12/28/2010 6:00	19240	1_60	2010	362	600	1.15951	95.61478	37.08814	-0.043	0.941	-0.184	1.988	-6.195	-3.962	2.232974	0	89.5	21.49
12/28/2010 7:00	19241	1_60	2010	362	700	0.9292755	119.7687	34.90923	-0.1	1.821	-0.086	1.851	-7.206	-5.823	1.382282	0	92.2	19.46
12/28/2010 8:00	19242	1_60	2010	362	800	1.178082	355.1273	25.08226	0.038	0.614	-0.037	0.749	-7.627	-6.133	1.493885	0	92	18.81
12/28/2010 9:00	19243	1_60	2010	362	900	1.529506	116.4692	13.01625	1.05	5.717	1.578	7.399	-5.282	-5.214	0.06727865	0	88.1	23.77
12/28/2010 10:00	19244	1_60	2010	362	1000	1.438717	123.5227	17.86208	3.067	16.95	5.223	18.65	-2.002	-2.373	-0.3708385	0	74.73	29.96
12/28/2010 11:00	19245	1_60	2010	362	1100	0.9552451	60.28114	49.00228	1.292	23.71	-0.629	23.05	-0.217	-0.595	-0.3775192	0	62.81	34.1
12/28/2010 12:00	19246	1_60	2010	362	1200	0.9382647	61.03338	48.99785	2.493	27.28	1.776	26.15	1.329	0.879	-0.4498139	0	56.59	36.91
12/28/2010 13:00	19247	1_60	2010	362	1300	2.431253	322.6577	23.25724	1.614	27.6	-2.485	28.54	2.452	1.85	-0.6023286	0	55.8	37.68
12/28/2010 14:00	19248	1_60	2010	362	1400	1.791569	298.7983	29.23725	-0.384	24.66	-1.472	26.78	3.253	2.766	-0.4871402	0	50.66	39
12/28/2010 15:00	19249	1_60	2010	362	1500	2.257683	288.3985	19.63394	1.219	22.38	1.975	24.62	4.019	3.469	-0.5491651	0	50.76	39.95
12/28/2010 16:00	19250	1_60	2010	362	1600	1.60807	223.2723	16.7991	2.901	15.65	8.58	16.85	3.858	3.46	-0.3982019	0	51.52	39.82
12/28/2010 17:00	19251	1_60	2010	362	1700	1.048466	202.8874	10.5813	0.15	2.867	0.695	3.964	2.229	2.896	0.6670807	0	59.17	36.76
12/28/2010 18:00	19252	1_60	2010	362	1800	2.240525	147.0525	14.34733	0.077	1.976	1.492	4.235	-1.093	1.403	2.496063	0	72.73	30.64
12/28/2010 19:00	19253	1_60	2010	362	1900	2.216895	110.263	22.8969	0.096	4.599	0.226	4.091	-2.711	-1.004	1.707288	0	82	27.51
12/28/2010 20:00	19254	1_60	2010	362	2000	1.454762	116.5676	35.30766	0.167	6.797	0.73	6.992	-1.9	0.257	2.157071	0	75.64	28.98
12/28/2010 21:00	19255	1_60	2010	362	2100	1.034921	127.5056	41.21598	0.162	6.021	0.076	5.366	-1.472	0.521	1.993415	0	73.9	29.57
12/28/2010 22:00	19256	1_60	2010	362	2200	1.213922	120.1079	15.78517	-0.004	0.372	0.014	0.41	-2.481	-0.477	2.00387	0	76.14	28.24
12/28/2010 23:00	19257	1_60	2010	362	2300	1.598779	141.4435	41.05223	-0.248	5.124	-0.208	4.529	-3.709	-1.479	2.229692	0	82.2	25.91
12/29/2010 0:00	19258	1_60	2010	363	0	1.889387	116.3834	15.0824	0.014	2.709	0.895	3.984	-4.324	-2.813	1.511562	0	86.9	24.52
12/29/2010 1:00	19259	1_60	2010	363	100	2.425166	118.5192	22.40808	3.861	10.94	7.875	12.89	-3.356	-2.485	0.8710129	0	84.5	26.25
12/29/2010 2:00	19260	1_60	2010	363	200	1.191306	47.01688	48.9309	0.333	10.69	0.34	10.36	-3.017	-2.289	0.7282566	0	82.6	26.96
12/29/2010 3:00	19261	1_60	2010	363	300	1.419968	322.2268	43.7114	0.537	3.642	0.632	3.42	-3.702	-3.215	0.4870442	0	88.6	25.55
12/29/2010 4:00	19262	1_60	2010	363	400	0.7860629	132.8114	48.30956	0.006	0.16	0	0.046	-3.117	-2.969	0.1473417	0	89.1	26.55
12/29/2010 5:00	19263	1_60	2010	363	500	1.900081	303.586	46.24772	1.45	8.3	0.53	9.63	-2.9	-2.851	0.04902064	0.01	89.5	26.96
12/29/2010 6:00	19264	1_60	2010	363	600	1.177088	182.4148	34.76254	-0.041	1.656	0.48	2.382	-3.147	-3.196	-0.04920999	0.05	95.3	26.48
12/29/2010 7:00	19265	1_60	2010	363	700	0.5427098	192.0296	25.64038	-0.093	1.389	-0.199	2.537	-2.413	-2.117	0.2965023	0.1	96.8	27.78
12/29/2010 8:00	19266	1_60	2010	363	800	0.6436664	183.1021	27.76435	0.046	1.035	0.053	2.239	-1.684	-1.583	0.1009056	0.07	97.2	29.11
12/29/2010 9:00	19267	1_60	2010	363	900	3.433489	86.36235	11.88616	-0.064	2.875	3.831	5.864	-0.73	-0.721	0.008498495	0.05	97.6	30.83
12/29/2010 10:00	19268	1_60	2010	363	1000	3.923277	83.56299	8.482096	0.202	3.057	8.02	7.611	-0.386	-0.409	-0.02288346	0.06	98	31.72
12/29/2010 11:00	19269	1_60	2010	363	1100	3.374124	74.98561	25.79583	0.895	9.01	13.68	15.95	0.029	0.048	0.01942073	0.02	97.7	32.84
12/29/2010 12:00	19270	1_60	2010	363	1200	2.042329	81.10851	50.16639	4.899	11.52	5.434	22.88	0.517	0.54	0.02282422	0.02	93.8	33.42
12/29/2010 13:00	19271	1_60	2010	363	1300	4.092718	113.9232	20.17363	7.557	34.31	13.65	41.19	0.621	0.694	0.0728862	0	90.4	33.42
12/29/2010 14:00	19272	1_60	2010	363	1400	2.950192	99.17728	33.6973	6.521	25.85	7.758	28.56	0.723	0.775	0.05217478	0.01	90.5	33.69
12/29/2010 15:00	19273	1_60	2010	363	1500	3.341525	84.16929	11.86217	9.09	15.27	5.384	14.71	0.355	0.378	0.02287208	0.02	93.9	33.12
12/29/2010 16:00	19274	1_60	2010	363	1600	4.826006	89.82495	11.73083	13.38	22.58	9.68	26.09	0.304	0.376	0.0725597	0.02	95.9	32.73
12/29/2010 17:00	19275	1_60	2010	363	1700	5.197516	84.38554	11.69134	15.32	25.95	9.8	28.2	0.43	0.558	0.1285786	0.01	95.4	32.78
12/29/2010 18:00	19276	1_60	2010	363	1800	5.27652	134.0533	26.18952	9.9	38.88	27.21	44.87	1.296	1.717	0.4209026	0.01	85.9	34.57
12/29/2010 19:00	19277	1_60	2010	363	1900	5.554164	167.5757	23.60892	7.366	51.87	38.38	57.41	1.755	2.159	0.4047805	0	80.2	35.53
12/29/2010 20:00	19278	1_60	2010	363	2000	7.145015	176.6619	14.35784	1.334	48.34	48.63	53.17	1.464	1.857	0.3928446	0.01	82.9	34.99
12/29/2010 21:00	19279	1_60	2010	363	2100	7.467731	191.0283	18.75199	2.876	57.95	54.27	64.05	2.039	2.495	0.4556788	0	76.41	36.04
12/29/2010 22:00	19280	1_60	2010	363	2200	7.82777	196.8168	18.09608	3.428	63.38	56.02	72.19	1.894	2.257	0.3628219	0	77.28	35.73
12/29/2010 23:00	19281	1_60	2010	363	2300	10.01075	190.43	15.26139	2.552	65.43	74.44	73.29	1.943	2.338	0.3950515	0	74.45	35.84

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/27/2010 0:00	19210	1_60	2010	361	0	24.67	0.044	IL	2.935	293.4	2308	13.56
12/27/2010 1:00	19211	1_60	2010	361	100	24.67	0.059	IL	2.355	31.78	39	13.59
12/27/2010 2:00	19212	1_60	2010	361	200	24.68	0.061	IL	1.502	157	146	13.62
12/27/2010 3:00	19213	1_60	2010	361	300	24.69	0.066	IL	1.741	75.3	259	13.62
12/27/2010 4:00	19214	1_60	2010	361	400	24.69	0.066	IL	2.628	92.1	304	13.63
12/27/2010 5:00	19215	1_60	2010	361	500	24.69	0.065	IL	1.399	148.1	418	13.64
12/27/2010 6:00	19216	1_60	2010	361	600	24.7	0.071	IL	2.014	41.64	557	13.64
12/27/2010 7:00	19217	1_60	2010	361	700	24.7	0.068	IL	2.765	14.87	636	13.64
12/27/2010 8:00	19218	1_60	2010	361	800	24.7	7.279	IL	2.662	48.05	705	13.64
12/27/2010 9:00	19219	1_60	2010	361	900	24.71	89.6	IL	2.935	138.4	852	13.63
12/27/2010 10:00	19220	1_60	2010	361	1000	24.72	346.1	IL	3.004	133.1	900	13.59
12/27/2010 11:00	19221	1_60	2010	361	1100	24.71	429.3	IL	3.55	276.8	1055	13.49
12/27/2010 12:00	19222	1_60	2010	361	1200	24.69	498.3	IL	3.891	312.7	1149	13.43
12/27/2010 13:00	19223	1_60	2010	361	1300	24.67	479.2	IL	3.891	301.9	1205	13.38
12/27/2010 14:00	19224	1_60	2010	361	1400	24.66	481.1	IL	4.71	310.4	1332	13.34
12/27/2010 15:00	19225	1_60	2010	361	1500	24.65	367.1	IL	5.564	251.5	1445	13.32
12/27/2010 16:00	19226	1_60	2010	361	1600	24.65	142.5	IL	6.178	249.7	1538	13.34
12/27/2010 17:00	19227	1_60	2010	361	1700	24.66	38	IL	5.905	240.4	1625	13.4
12/27/2010 18:00	19228	1_60	2010	361	1800	24.67	0.744	IL	4.403	241.7	1724	13.45
12/27/2010 19:00	19229	1_60	2010	361	1900	24.67	0.054	IL	2.594	135.8	1856	13.51
12/27/2010 20:00	19230	1_60	2010	361	2000	24.68	0.015	IL	2.492	139.7	1902	13.56
12/27/2010 21:00	19231	1_60	2010	361	2100	24.68	0.038	IL	1.911	241.9	2055	13.59
12/27/2010 22:00	19232	1_60	2010	361	2200	24.68	0.053	IL	1.877	249.6	2100	13.61
12/27/2010 23:00	19233	1_60	2010	361	2300	24.68	0.062	IL	1.911	79.71	2203	13.62
12/28/2010 0:00	19234	1_60	2010	362	0	24.67	0.061	IL	1.604	128.8	2305	13.64
12/28/2010 1:00	19235	1_60	2010	362	100	24.67	0.049	IL	1.673	221	34	13.67
12/28/2010 2:00	19236	1_60	2010	362	200	24.67	0.053	IL	1.741	101.5	110	13.7
12/28/2010 3:00	19237	1_60	2010	362	300	24.68	0.064	IL	1.638	264.4	202	13.72
12/28/2010 4:00	19238	1_60	2010	362	400	24.66	0.06	IL	2.116	113.4	359	13.74
12/28/2010 5:00	19239	1_60	2010	362	500	24.65	0.045	IL	2.116	114.4	400	13.75
12/28/2010 6:00	19240	1_60	2010	362	600	24.65	0.051	IL	2.253	97.3	552	13.76
12/28/2010 7:00	19241	1_60	2010	362	700	24.65	0.035	IL	1.98	106	628	13.78
12/28/2010 8:00	19242	1_60	2010	362	800	24.67	9.31	IL	2.082	8.53	715	13.8
12/28/2010 9:00	19243	1_60	2010	362	900	24.67	147.8	IL	2.355	81.2	832	13.77
12/28/2010 10:00	19244	1_60	2010	362	1000	24.67	294.8	IL	2.799	110.6	948	13.69
12/28/2010 11:00	19245	1_60	2010	362	1100	24.65	418	IL	2.492	42.02	1011	13.55
12/28/2010 12:00	19246	1_60	2010	362	1200	24.61	498.7	IL	3.14	131.4	1127	13.48
12/28/2010 13:00	19247	1_60	2010	362	1300	24.57	485.5	IL	4.847	313.3	1238	13.42
12/28/2010 14:00	19248	1_60	2010	362	1400	24.55	425.4	IL	3.925	311.7	1300	13.39
12/28/2010 15:00	19249	1_60	2010	362	1500	24.53	347.1	IL	4.13	303.9	1404	13.37
12/28/2010 16:00	19250	1_60	2010	362	1600	24.53	171.3	IL	3.038	206.7	1525	13.37
12/28/2010 17:00	19251	1_60	2010	362	1700	24.52	44.69	IL	1.877	177.4	1600	13.41
12/28/2010 18:00	19252	1_60	2010	362	1800	24.51	0.903	IL	3.618	145.7	1713	13.49
12/28/2010 19:00	19253	1_60	2010	362	1900	24.51	0.018	IL	3.721	83.2	1836	13.56
12/28/2010 20:00	19254	1_60	2010	362	2000	24.49	0.054	IL	3.072	201.2	1927	13.62
12/28/2010 21:00	19255	1_60	2010	362	2100	24.49	0.052	IL	2.355	133.4	2049	13.64
12/28/2010 22:00	19256	1_60	2010	362	2200	24.47	0.041	IL	2.731	125.2	2142	13.66
12/28/2010 23:00	19257	1_60	2010	362	2300	24.46	0.026	IL	3.072	86.6	2254	13.68
12/29/2010 0:00	19258	1_60	2010	363	0	24.44	0.044	IL	3.482	156.7	2359	13.69
12/29/2010 1:00	19259	1_60	2010	363	100	24.4	0.034	IL	4.745	128.7	39	13.69
12/29/2010 2:00	19260	1_60	2010	363	200	24.38	0.048	IL	3.447	108.1	117	13.67
12/29/2010 3:00	19261	1_60	2010	363	300	24.35	0.055	IL	2.97	270.7	230	13.66
12/29/2010 4:00	19262	1_60	2010	363	400	24.31	0.064	IL	2.219	29.81	317	13.65
12/29/2010 5:00	19263	1_60	2010	363	500	24.28	0.066	IL	4.267	276.5	434	13.63
12/29/2010 6:00	19264	1_60	2010	363	600	24.25	0.064	IL	3.038	257.3	501	13.62
12/29/2010 7:00	19265	1_60	2010	363	700	24.23	0.063	IL	1.331	197.2	603	13.61
12/29/2010 8:00	19266	1_60	2010	363	800	24.21	0.331	IL	1.98	116.8	744	13.59
12/29/2010 9:00	19267	1_60	2010	363	900	24.2	4.232	IL	5.7	84.8	829	13.58
12/29/2010 10:00	19268	1_60	2010	363	1000	24.19	10.94	IL	5.598	84	931	13.57
12/29/2010 11:00	19269	1_60	2010	363	1100	24.16	29.58	IL	6.11	80.9	1022	13.56
12/29/2010 12:00	19270	1_60	2010	363	1200	24.12	39.59	IL	6.69	152.2	1159	13.55
12/29/2010 13:00	19271	1_60	2010	363	1300	24.09	85.4	IL	9.15	124.1	1200	13.51
12/29/2010 14:00	19272	1_60	2010	363	1400	24.06	123.1	IL	7.168	138.1	1307	13.51
12/29/2010 15:00	19273	1_60	2010	363	1500	24.04	86.5	IL	5.53	77.14	1416	13.53
12/29/2010 16:00	19274	1_60	2010	363	1600	24.02	44.64	IL	8.67	80.8	1547	13.54
12/29/2010 17:00	19275	1_60	2010	363	1700	24.01	8.75	IL	8.7	92.5	1627	13.55
12/29/2010 18:00	19276	1_60	2010	363	1800	23.99	0.16	IL	12.36	166.4	1756	13.55
12/29/2010 19:00	19277	1_60	2010	363	1900	23.99	0.016	IL	14.81	161.4	1836	13.55
12/29/2010 20:00	19278	1_60	2010	363	2000	23.98	0.026	IL	16.08	157.7	1933	13.55
12/29/2010 21:00	19279	1_60	2010	363	2100	23.96	0.04	IL	16.15	182	2019	13.54
12/29/2010 22:00	19280	1_60	2010	363	2200	23.96	0.046	IL	17.89	186	2131	13.53
12/29/2010 23:00	19281	1_60	2010	363	2300	23.96	0.052	IL	19.66	173.9	2201	13.53

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARF Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd_m/s m/s WVc	WDir_Deg Deg WVc	ST Deg WVc	VertWS_EPS_Avg cm/s Avg	VertWS_EPS_Std cm/s Std	VertWS_CFT_Avg cm/s Avg	VertWS_CFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp10m_Avg DegC Avg	DeltaT_Avg Avg	Precip_Tot in Tot	RH_Avg Avg	RHTemp_Avg DegF Avg
12/30/2010 0:00	19282	1_60	2010	364	0	10.053	198.272	10.10188	4.6	52.59	77.13	53.74	1.631	1.963	0.3321046	0	76.07	35.21
12/30/2010 1:00	19283	1_60	2010	364	100	12.09724	202.0707	10.23107	6.225	63.38	95.6	65.52	1.612	1.903	0.2906951	0	74.25	35.16
12/30/2010 2:00	19284	1_60	2010	364	200	9.972593	203.6278	11.05331	-0.586	53.38	69.28	56.31	1.642	1.935	0.2926911	0	71.72	35.2
12/30/2010 3:00	19285	1_60	2010	364	300	6.700212	182.1166	18.93089	1.443	48.86	44.74	57.11	1.84	2.191	0.3511407	0	68.03	35.61
12/30/2010 4:00	19286	1_60	2010	364	400	5.143401	162.6466	14.89638	6.036	33.29	37.15	36.69	0.897	1.159	0.262463	0	80.2	33.78
12/30/2010 5:00	19287	1_60	2010	364	500	3.999793	124.4238	18.46422	4.525	25.61	13.47	28.57	0.718	0.961	0.243053	0	80.1	33.53
12/30/2010 6:00	19288	1_60	2010	364	600	2.642848	94.23615	26.47633	2.828	21.01	3.704	21.76	0.309	0.504	0.1945653	0	85.2	32.78
12/30/2010 7:00	19289	1_60	2010	364	700	3.091645	151.4437	23.31409	1.774	26.56	15.6	31.01	0.622	1.007	0.384712	0	78.52	33.34
12/30/2010 8:00	19290	1_60	2010	364	800	4.478851	222.0464	18.2188	1.76	27.92	24.7	32.55	0.02	0.356	0.336067	0	74.24	32.48
12/30/2010 9:00	19291	1_60	2010	364	900	4.693173	292.7307	11.78476	4.23	23.59	8.28	28.47	-2.658	-2.522	0.1354763	0	81	27.54
12/30/2010 10:00	19292	1_60	2010	364	1000	3.509839	302.7838	17.80504	1.904	21.12	0.051	23.5	-3.018	-3.048	-0.03033454	0	79.66	26.9
12/30/2010 11:00	19293	1_60	2010	364	1100	4.318449	285.6454	19.61688	4.801	33.11	11.82	36.79	-3.52	-3.637	-0.1165423	0	80.2	26.01
12/30/2010 12:00	19294	1_60	2010	364	1200	5.52131	271.4297	13.6277	-0.155	37.05	12.73	43.04	-4.346	-4.493	-0.147459	0	81.3	24.4
12/30/2010 13:00	19295	1_60	2010	364	1300	6.724026	261.5373	11.60068	3.01	40.38	23.48	44.91	-4.401	-4.66	-0.2589589	0.01	75.81	24.26
12/30/2010 14:00	19296	1_60	2010	364	1400	7.653943	250.6851	9.797297	2.174	41.55	33.35	46.49	-4.294	-4.577	-0.2837728	0	65.74	24.65
12/30/2010 15:00	19297	1_60	2010	364	1500	9.152485	241.7823	8.693036	2.996	44.93	49.86	47.1	-4.313	-4.649	-0.3361782	0	64.33	24.58
12/30/2010 16:00	19298	1_60	2010	364	1600	9.057761	245.5249	8.787289	6.908	46.97	51.29	48.19	-5.493	-5.555	-0.06181128	0	65.18	22.45
12/30/2010 17:00	19299	1_60	2010	364	1700	7.320001	244.2298	9.203461	2.498	37.23	37.57	40.51	-6.26	-6.178	0.08161876	0	68.35	21.02
12/30/2010 18:00	19300	1_60	2010	364	1800	7.210571	245.8883	9.235897	3.707	36.87	37.21	38.25	-6.904	-6.711	0.1926887	0	68.85	19.88
12/30/2010 19:00	19301	1_60	2010	364	1900	5.411401	243.5475	8.332573	3.114	28.04	27.41	29.1	-7.375	-7.177	0.1977716	0	69.91	19.02
12/30/2010 20:00	19302	1_60	2010	364	2000	4.30721	236.8114	9.73518	1.71	23.34	22.46	25.45	-7.622	-7.486	0.1353028	0	72.88	18.53
12/30/2010 21:00	19303	1_60	2010	364	2100	3.642074	246.0661	10.60781	2.991	20.25	18.94	21.7	-7.877	-7.739	0.1377585	0	75.9	18.07
12/30/2010 22:00	19304	1_60	2010	364	2200	2.071801	319.9986	19.49798	0.997	13.07	1.839	15.34	-8.02	-7.978	0.04437916	0	81.9	17.84
12/30/2010 23:00	19305	1_60	2010	364	2300	0.7129022	34.82769	22.29264	0.125	3.611	0.03	3.88	-8.38	-8.41	-0.02367076	0.01	91.1	17.18
12/31/2010 0:00	19306	1_60	2010	365	0	0.6039593	319.3248	31.72923	-0.001	0.134	-0.015	0.28	-8.36	-8.36	0.004970165	0.01	92.4	17.25
12/31/2010 1:00	19307	1_60	2010	365	100	1.269982	289.1881	18.87839	-0.138	1.997	0.198	2.081	-8.73	-8.4	0.3265554	0	89.5	16.56
12/31/2010 2:00	19308	1_60	2010	365	200	2.453464	273.2374	18.5999	-1.734	8.13	2.616	10.38	-8.93	-8.72	0.2031588	0	86.2	16.17
12/31/2010 3:00	19309	1_60	2010	365	300	2.683694	254.9513	8.489477	-0.261	4.501	4.809	8.44	-9.09	-9.01	0.07660915	0.01	87.8	15.84
12/31/2010 4:00	19310	1_60	2010	365	400	1.050961	254.386	14.89986	0.022	0.607	0.088	1.108	-9.3	-9.24	0.05945159	0.01	90.7	15.48
12/31/2010 5:00	19311	1_60	2010	365	500	1.486981	244.8192	15.52662	-0.148	1.592	0.092	3.039	-9.85	-9.54	0.3164406	0	91.3	14.54
12/31/2010 6:00	19312	1_60	2010	365	600	2.198857	272.5245	21.42319	-0.759	3.808	1.487	6.038	-10.1	-9.52	0.5803313	0	83.2	13.96
12/31/2010 7:00	19313	1_60	2010	365	700	1.362254	307.5588	28.83649	-0.638	4.517	-0.649	6.646	-10.15	-9.79	0.3598839	0	76.25	13.91
12/31/2010 8:00	19314	1_60	2010	365	800	1.098782	254.9554	18.23083	-0.067	0.957	-0.373	2.966	-10.75	-10.44	0.3160966	0	80.7	12.93
12/31/2010 9:00	19315	1_60	2010	365	900	1.01515	226.5163	14.03631	0.395	2.983	2.97	7.13	-10.4	-10.54	-0.1419026	0	85	14.05
12/31/2010 10:00	19316	1_60	2010	365	1000	1.851613	275.7176	29.00516	0.251	11.24	0.288	15.39	-10.28	-10.51	-0.2263529	0	79.22	14.67
12/31/2010 11:00	19317	1_60	2010	365	1100	3.795045	345.5077	17.2203	9.37	24.73	-5.242	27.72	-9.99	-10.21	-0.2172554	0	67.84	14.98
12/31/2010 12:00	19318	1_60	2010	365	1200	3.964148	346.2621	16.41701	9.48	26.41	-5.089	29.96	-9.34	-9.63	-0.2828457	0	54.46	16.73
12/31/2010 13:00	19319	1_60	2010	365	1300	4.217421	349.959	17.70255	9.36	27.79	-7.931	32.21	-9.42	-9.68	-0.2572391	0	52.12	16.39
12/31/2010 14:00	19320	1_60	2010	365	1400	3.444319	351.2087	18.35028	7.65	24.3	-6.998	27.51	-9.29	-9.54	-0.2514938	0	52.9	16.71
12/31/2010 15:00	19321	1_60	2010	365	1500	3.601913	358.5133	15.05964	8.99	20.07	-7.593	22.61	-9.73	-9.86	-0.1357026	0	54.62	15.43
12/31/2010 16:00	19322	1_60	2010	365	1600	2.151729	352.683	13.89167	3.318	12.99	-3.285	15.08	-10.16	-10.17	-0.007129326	0	53.82	14.88
12/31/2010 17:00	19323	1_60	2010	365	1700	1.412042	237.6052	16.8797	0.167	1.808	1.263	3.59	-12.04	-10.83	1.212115	0	59.41	11.64
12/31/2010 18:00	19324	1_60	2010	365	1800	1.837531	156.3607	38.16582	0.253	2.474	1.319	5.003	-16.31	-13.7	2.609095	0	73.3	3.447
12/31/2010 19:00	19325	1_60	2010	365	1900	2.362226	141.1756	8.248802	-0.001	0.8	1.25	3.028	-18.29	-14.43	3.862468	0	77.17	-0.011
12/31/2010 20:00	19326	1_60	2010	365	2000	1.11815	220.0286	29.3794	-0.005	0.115	0.096	0.852	-18.03	-14.07	3.967193	0	78.7	0.042
12/31/2010 21:00	19327	1_60	2010	365	2100	1.661039	131.8369	38.06353	-0.084	3.304	0.614	3.552	-19.98	-16.43	3.548697	0	80.1	-3.019
12/31/2010 22:00	19328	1_60	2010	365	2200	1.943321	110.3988	35.05608	-0.025	4.27	0.003	4.562	-20.04	-16.97	3.073355	0	81.1	-3.318
12/31/2010 23:00	19329	1_60	2010	365	2300	1.63241	99.84616	27.01939	0.336	2.088	0.327	2.009	-20.51	-17.89	2.611698	0	79.67	-4.314

Appendix A1 - Site 1 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARF	Year	Day_of_Year	HOUR	BPinHg	SolarRad_Avg	EvapLevel_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN					inHg	W/m²	in	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Smp	Avg	Avg	Smp	Smp	Smp	Avg
12/30/2010 0:00	19282	1_60	2010	364	0	23.95	0.053	IL	16.21	195.9	2325	13.53
12/30/2010 1:00	19283	1_60	2010	364	100	23.92	0.059	IL	19.49	199.1	39	13.53
12/30/2010 2:00	19284	1_60	2010	364	200	23.91	0.063	IL	16.28	180.6	156	13.53
12/30/2010 3:00	19285	1_60	2010	364	300	23.9	0.063	IL	14.3	180.4	205	13.53
12/30/2010 4:00	19286	1_60	2010	364	400	23.87	0.054	IL	10.07	156.8	352	13.53
12/30/2010 5:00	19287	1_60	2010	364	500	23.85	0.052	IL	9.45	201.2	409	13.54
12/30/2010 6:00	19288	1_60	2010	364	600	23.84	0.049	IL	6.042	121.3	502	13.54
12/30/2010 7:00	19289	1_60	2010	364	700	23.83	0.03	IL	8.67	192.3	657	13.55
12/30/2010 8:00	19290	1_60	2010	364	800	23.82	5.66	IL	9.28	160	708	13.55
12/30/2010 9:00	19291	1_60	2010	364	900	23.81	30.31	IL	7.543	254.1	805	13.58
12/30/2010 10:00	19292	1_60	2010	364	1000	23.83	64.29	IL	6.144	304.9	957	13.61
12/30/2010 11:00	19293	1_60	2010	364	1100	23.84	123	IL	8.87	271.9	1029	13.62
12/30/2010 12:00	19294	1_60	2010	364	1200	23.84	145.6	IL	11.13	254.3	1137	13.62
12/30/2010 13:00	19295	1_60	2010	364	1300	23.84	278.6	IL	11.2	260.7	1244	13.63
12/30/2010 14:00	19296	1_60	2010	364	1400	23.86	294.3	IL	13.65	246.7	1359	13.63
12/30/2010 15:00	19297	1_60	2010	364	1500	23.89	359	IL	14.71	255.9	1413	13.63
12/30/2010 16:00	19298	1_60	2010	364	1600	23.93	142.5	IL	14.2	245.7	1552	13.65
12/30/2010 17:00	19299	1_60	2010	364	1700	23.94	27.27	IL	12.15	245.8	1634	13.69
12/30/2010 18:00	19300	1_60	2010	364	1800	23.97	0.74	IL	12.66	238.6	1718	13.72
12/30/2010 19:00	19301	1_60	2010	364	1900	24	0.041	IL	10.79	238.5	1801	13.75
12/30/2010 20:00	19302	1_60	2010	364	2000	24.01	0.042	IL	8.19	228.5	1944	13.77
12/30/2010 21:00	19303	1_60	2010	364	2100	24.03	0.047	IL	6.656	234.1	2013	13.77
12/30/2010 22:00	19304	1_60	2010	364	2200	24.05	0.036	IL	5.257	245.9	2100	13.78
12/30/2010 23:00	19305	1_60	2010	364	2300	24.06	0.042	IL	2.56	18.99	2257	13.78
12/31/2010 0:00	19306	1_60	2010	365	0	24.08	0.053	IL	1.741	21.86	2300	13.77
12/31/2010 1:00	19307	1_60	2010	365	100	24.09	0.039	IL	2.97	273.3	47	13.77
12/31/2010 2:00	19308	1_60	2010	365	200	24.12	0.021	IL	4.506	267	114	13.78
12/31/2010 3:00	19309	1_60	2010	365	300	24.14	0.022	IL	4.233	246.5	205	13.79
12/31/2010 4:00	19310	1_60	2010	365	400	24.16	0.032	IL	3.004	254.2	300	13.79
12/31/2010 5:00	19311	1_60	2010	365	500	24.18	0.023	IL	2.765	230.5	439	13.79
12/31/2010 6:00	19312	1_60	2010	365	600	24.21	0.023	IL	3.482	272	535	13.81
12/31/2010 7:00	19313	1_60	2010	365	700	24.23	0.044	IL	3.14	299.3	607	13.82
12/31/2010 8:00	19314	1_60	2010	365	800	24.26	5.076	IL	1.98	264.7	739	13.83
12/31/2010 9:00	19315	1_60	2010	365	900	24.3	39.03	IL	1.775	244.6	846	13.83
12/31/2010 10:00	19316	1_60	2010	365	1000	24.33	86	IL	6.281	351.4	959	13.8
12/31/2010 11:00	19317	1_60	2010	365	1100	24.35	134.7	IL	7.236	350.1	1009	13.78
12/31/2010 12:00	19318	1_60	2010	365	1200	24.35	234.3	IL	7.851	349.8	1151	13.75
12/31/2010 13:00	19319	1_60	2010	365	1300	24.36	351.6	IL	7.782	338.2	1216	13.72
12/31/2010 14:00	19320	1_60	2010	365	1400	24.37	329.1	IL	6.861	347.7	1337	13.71
12/31/2010 15:00	19321	1_60	2010	365	1500	24.4	190.1	IL	5.769	4.242	1443	13.72
12/31/2010 16:00	19322	1_60	2010	365	1600	24.42	133.8	IL	5.734	339.3	1500	13.76
12/31/2010 17:00	19323	1_60	2010	365	1700	24.44	46.18	IL	2.287	220.2	1647	13.79
12/31/2010 18:00	19324	1_60	2010	365	1800	24.46	1.523	IL	2.901	131.1	1750	13.88
12/31/2010 19:00	19325	1_60	2010	365	1900	24.48	0.02	IL	3.174	144.8	1811	13.97
12/31/2010 20:00	19326	1_60	2010	365	2000	24.51	0.012	IL	2.526	151.1	1902	14.04
12/31/2010 21:00	19327	1_60	2010	365	2100	24.53	0.025	IL	3.686	101.7	2058	14.09
12/31/2010 22:00	19328	1_60	2010	365	2200	24.55	0.028	IL	3.755	95.1	2130	14.12
12/31/2010 23:00	19329	1_60	2010	365	2300	24.57	0.017	IL	4.437	94.2	2205	14.13

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TOA5	CR3000	CR3000	2421	CR3000.Std.07	CPU:En	10892	HrlyData										
TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
10/1/2010 0:00	21801	2_60	2010	274	0	0.827622	172.3563	41.96431	0.92	6.245	0.453	4.09	15.53	19.69	4.160783
10/1/2010 1:00	21802	2_60	2010	274	100	1.225722	277.1732	50.25917	3.455	12.73	3.686	8.81	13.94	18.1	4.155049
10/1/2010 2:00	21803	2_60	2010	274	200	0.9706078	65.7406	45.77907	1.118	5.828	0.019	2.478	13.73	17.04	3.311543
10/1/2010 3:00	21804	2_60	2010	274	300	0.7128438	253.1526	39.49078	1.072	6.201	0.661	3.944	12.74	16.95	4.210304
10/1/2010 4:00	21805	2_60	2010	274	400	0.8429213	261.4915	21.02583	1.109	6.622	0.879	4.086	12.47	15.72	3.250892
10/1/2010 5:00	21806	2_60	2010	274	500	0.9015172	243.3757	29.30647	-0.804	5.171	-0.008	1.688	11.78	14.15	2.366756
10/1/2010 6:00	21807	2_60	2010	274	600	0.458041	314.6443	45.00824	0.207	2.538	-0.226	0.228	11.08	13.94	2.860279
10/1/2010 7:00	21808	2_60	2010	274	700	0.4180757	131.6315	14.59717	-0.408	1.869	-0.266	0.183	10.59	13.88	3.294746
10/1/2010 8:00	21809	2_60	2010	274	800	0.332971	316.3952	24.40246	0.172	2.625	-0.23	0.128	12.98	13.67	0.6889352
10/1/2010 9:00	21810	2_60	2010	274	900	0.4789169	284.0342	38.30252	2.772	14.75	1.968	10.93	14.53	14.05	-0.4834735
10/1/2010 10:00	21811	2_60	2010	274	1000	0.7313606	4.191004	36.78954	6.964	37.85	5.894	33.56	17.86	17.2	-0.6572843
10/1/2010 11:00	21812	2_60	2010	274	1100	1.087769	327.639	36.39472	16.04	55.38	13.3	51.85	20.43	19.58	-0.8444439
10/1/2010 12:00	21813	2_60	2010	274	1200	0.6294743	54.82961	44.49208	22.66	39.78	19.23	39.42	22.99	22.08	-0.9085339
10/1/2010 13:00	21814	2_60	2010	274	1300	0.7200139	92.96024	57.10456	22.06	52.48	21.23	49.98	26.14	25.13	-1.011348
10/1/2010 14:00	21815	2_60	2010	274	1400	1.789918	334.8437	52.23396	0.793	48.42	-4.012	46.4	29.02	28.05	-0.9656209
10/1/2010 15:00	21816	2_60	2010	274	1500	1.910324	320.2716	46.23964	-8.28	57.59	-11.31	58.16	30.23	29.17	-1.055447
10/1/2010 16:00	21817	2_60	2010	274	1600	3.87062	5.936602	28.2169	18.45	52.49	3.561	55.25	30.54	29.48	-1.053816
10/1/2010 17:00	21818	2_60	2010	274	1700	5.586784	3.407543	10.81884	31.61	32.7	12.03	38.9	29.46	28.84	-0.6271661
10/1/2010 18:00	21819	2_60	2010	274	1800	2.510726	317.6514	30.18184	16.95	29.09	11.32	29.36	25.2	27.18	1.977166
10/1/2010 19:00	21820	2_60	2010	274	1900	2.814079	279.382	14.51244	8.86	20.74	12.72	17.72	22.51	26.34	3.825484
10/1/2010 20:00	21821	2_60	2010	274	2000	1.427335	276.9032	30.25648	6.493	10.51	5.697	8.99	20.27	25.19	4.920344
10/1/2010 21:00	21822	2_60	2010	274	2100	0.7627935	152.0894	42.94592	0.447	5.42	0.121	2.469	17.6	23.49	5.898624
10/1/2010 22:00	21823	2_60	2010	274	2200	1.0897	204.9236	16.94224	4.855	10.58	6.333	13.72	15.78	22.89	7.10498
10/1/2010 23:00	21824	2_60	2010	274	2300	1.216645	206.9621	27.94876	2.671	14.15	3.006	14.95	16.4	21.49	5.086764
10/2/2010 0:00	21825	2_60	2010	275	0	1.429269	224.4471	40.02261	0.595	18.59	1.889	20.5	15.03	19.25	4.217471
10/2/2010 1:00	21826	2_60	2010	275	100	2.572254	173.6119	50.2911	5.629	20.57	15.83	29.47	13.67	17.87	4.192576
10/2/2010 2:00	21827	2_60	2010	275	200	2.04185	138.5182	32.45795	0.657	26.95	6.031	27.95	12.9	16.87	3.972134
10/2/2010 3:00	21828	2_60	2010	275	300	2.422778	155.5143	44.1293	-1.461	29.1	5.54	31.93	12.83	15.53	2.700605
10/2/2010 4:00	21829	2_60	2010	275	400	1.522342	241.5632	24.32817	0.411	10.94	4.18	9.44	10.61	13.25	2.638317
10/2/2010 5:00	21830	2_60	2010	275	500	1.522907	264.9778	15.65027	0.317	11.46	3.414	9.31	9.82	12.6	2.787876
10/2/2010 6:00	21831	2_60	2010	275	600	0.4411146	171.8665	26.4981	0.346	3.591	0.034	2.078	9.92	13.19	3.270126
10/2/2010 7:00	21832	2_60	2010	275	700	0.5432327	234.1779	32.89899	-0.043	1.705	-0.189	0.444	10.24	13.09	2.849377
10/2/2010 8:00	21833	2_60	2010	275	800	1.395882	288.9121	13.6073	2.442	10.54	1.576	5.686	12.41	12.21	-0.2044663
10/2/2010 9:00	21834	2_60	2010	275	900	1.541486	311.7537	14.53285	9.97	30.42	7.411	27.99	14.37	13.64	-0.7273074
10/2/2010 10:00	21835	2_60	2010	275	1000	0.7757621	315.4609	43.42531	2.17	42.69	2.593	39.25	17.44	16.64	-0.7939491
10/2/2010 11:00	21836	2_60	2010	275	1100	1.039187	325.3933	39.17048	4.102	53.12	0.68	50.13	20.41	19.45	-0.9689
10/2/2010 12:00	21837	2_60	2010	275	1200	1.144627	329.0516	32.58577	9.5	58.97	6.145	55.24	23.38	22.45	-0.9259042
10/2/2010 13:00	21838	2_60	2010	275	1300	1.290093	307.4305	36.58349	7.136	49.67	5.809	47.08	26.16	25.1	-1.062309
10/2/2010 14:00	21839	2_60	2010	275	1400	1.306278	287.2266	33.40846	-0.171	48.42	1.248	45.72	28.27	27.3	-0.974498
10/2/2010 15:00	21840	2_60	2010	275	1500	2.572221	297.0517	34.94373	16.22	44.39	18.93	43.84	29.5	28.35	-1.152722
10/2/2010 16:00	21841	2_60	2010	275	1600	3.33674	272.5881	12.46305	5.158	37.07	15.96	37.05	29.57	28.47	-1.09923
10/2/2010 17:00	21842	2_60	2010	275	1700	1.815035	255.9113	16.29937	6.813	19.71	11.18	21.57	28.16	28.22	0.05703194
10/2/2010 18:00	21843	2_60	2010	275	1800	2.055987	281.2371	12.83241	4.176	15.4	7.573	11.35	22.93	27.14	4.208238
10/2/2010 19:00	21844	2_60	2010	275	1900	1.771767	262.8573	18.69767	6.342	15.01	9.01	14.46	21.24	26.31	5.068265
10/2/2010 20:00	21845	2_60	2010	275	2000	1.162119	236.6359	16.09488	5.126	8.07	4.935	9.69	19.12	25.42	6.30688
10/2/2010 21:00	21846	2_60	2010	275	2100	1.278806	205.692	12.60365	0.835	6.318	1.561	5.204	18.43	23.77	5.34315
10/2/2010 22:00	21847	2_60	2010	275	2200	1.015924	250.3927	35.85493	1.906	9.52	1.177	6.53	17.26	22.36	5.105245
10/2/2010 23:00	21848	2_60	2010	275	2300	0.7886454	208.5857	26.36057	1.371	7.143	1.134	5.81	16.61	21.54	4.928358
10/3/2010 0:00	21849	2_60	2010	276	0	0.6202	278.6502	35.63368	0.284	8.03	-0.356	5.279	15.36	19.08	3.710989
10/3/2010 1:00	21850	2_60	2010	276	100	0.9305549	251.0097	28.64982	2.751	9.11	0.918	5.763	13.64	18.43	4.786451
10/3/2010 2:00	21851	2_60	2010	276	200	1.259658	226.0208	19.7317	4.465	8.49	0.396	2.911	13.17	17.5	4.331347
10/3/2010 3:00	21852	2_60	2010	276	300	1.5825	335.3776	30.42086	3.417	11.98	2.273	8.12	11.72	15.06	3.343549
10/3/2010 4:00	21853	2_60	2010	276	400	0.6509192	138.5774	29.31334	0.935	4.497	-0.15	1.251	11.6	14.87	3.271312
10/3/2010 5:00	21854	2_60	2010	276	500	0.5016454	16.86714	54.53085	0.29	3.863	-0.15	0.979	10.44	14.25	3.812824
10/3/2010 6:00	21855	2_60	2010	276	600	0.5350952	225.4988	21.44504	0.094	5.993	0.328	3.56	10.53	13.21	2.681794
10/3/2010 7:00	21856	2_60	2010	276	700	0.5807484	240.8893	34.81486	1.369	6.319	0.361	3.794	10.18	13.91	3.721973
10/3/2010 8:00	21857	2_60	2010	276	800	1.047487	282.7134	31.15163	2.68	14.23	2.703	8.69	12.58	12.73	0.1548127
10/3/2010 9:00	21858	2_60	2010	276	900	1.185474	298.3523	17.4981	4.04	26.62	2.601	22.2	14.54	13.87	-0.6716098
10/3/2010 10:00	21859	2_60	2010	276	1000	1.124036	313.0067	27.58561	8.5	46.07	6.835	42.08	17.78	17	-0.7751296
10/3/2010 11:00	21860	2_60	2010	276	1100	1.00204	324.6935	49.63749	-4.346	51.85	-5.213	48.91	20.84	20.02	-0.8291587
10/3/2010 12:00	21861	2_60	2010	276	1200	1.348945	0.4432807	44.57655	-0.557	52.75	-5.238	51.97	23.57	22.71	-0.8593622
10/3/2010 13:00	21862	2_60	2010	276	1300	2.162112	355.0503	35.6307	10.25	57.57	3.247	58.12	25.83	24.62	-1.210153
10/3/2010 14:00	21863	2_60	2010	276	1400	2.482223	325.9594	33.01198	-0.715	50.35	-1.853	53.22	27.05	25.78	-1.272859
10/3/2010 15:00	21864	2_60	2010	276	1500	3.378793	235.137	28.89486	22.79	61.39	40.24	65.03	27.79	26.5	-1.285914
10/3/2010 16:00	21865	2_60	2010	276	1600	5.606181	232.1817	18.45699	12.08	66.2	47.25	75.76	27.49	26.2	-1.288601
10/3/2010 17:00	21866	2_60	2010	276	1700	9.438814	168.8371	13.77545	23.52	87.7	79.95	98.3	24.57	23.88	-0.6928165
10/3/2010 18:00	21867	2_60	2010	276	1800	9.90428	157.2755	8.310997	17.52	66.85	71.67	81	21.7	21.51	-0.1979947
10/3/2010 19:00	21868	2_60	2010	276	1900	9.847763	162.9317	6.878847	28.74	54.71	90.7	65.41	20.78	20.75	-0.02955371
10/3/2010 20:00	21869	2_60	2010	276	2000	3.714493	301.1575	53.79239	22.6	27.79	20.01	32.19	19.34	19.57	0.2290943
10/3/2010 21:00	21870	2_60	2010	276	2100	1.597264	103.2511	42.99015	1.575	13.24	1.173	12.08	16.63	18.11	1.482843
10/3/2010 22:00	21871	2_60	2010	276	2200	2.196587	159.613	43.79958	4.941	23.52	11.92	28.96	16.94	18.36	1.422469
10/3/2010 23:00	21872	2_60	2010	276	2300	6.401206	251.07	10.05224	23.89	55.28	63.05	65.96	17.13	17.29	0.166675

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TOA5	CR3000	CR3000	2421	CR3000.Std.07	CPU:En									
TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg	
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts	
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg	
10/1/2010 0:00	21801	2_60	2010	274	0	21.79	60.51	24.65	0.007	1.809	72.47	2313	13.25	
10/1/2010 1:00	21802	2_60	2010	274	100	25.79	58.1	24.66	0.02	3.482	297	10	13.28	
10/1/2010 2:00	21803	2_60	2010	274	200	27.09	57.21	24.67	0.028	1.911	89.4	128	13.31	
10/1/2010 3:00	21804	2_60	2010	274	300	29.99	55.22	24.67	0.033	1.98	275.7	236	13.33	
10/1/2010 4:00	21805	2_60	2010	274	400	30.6	55.27	24.68	0.035	2.492	291.3	337	13.35	
10/1/2010 5:00	21806	2_60	2010	274	500	33.63	53.56	24.69	0.034	2.321	290	422	13.36	
10/1/2010 6:00	21807	2_60	2010	274	600	36.73	52.56	24.71	0.091	1.775	300.4	544	13.38	
10/1/2010 7:00	21808	2_60	2010	274	700	40.53	51.92	24.72	33.35	1.399	149.2	611	13.39	
10/1/2010 8:00	21809	2_60	2010	274	800	34.96	56.89	24.74	99.2	1.092	13.94	754	13.36	
10/1/2010 9:00	21810	2_60	2010	274	900	31.78	60.39	24.74	215.3	1.775	288.3	829	13.32	
10/1/2010 10:00	21811	2_60	2010	274	1000	24.73	66.33	24.73	399.5	1.946	342.2	952	13.24	
10/1/2010 11:00	21812	2_60	2010	274	1100	21.77	70.52	24.73	482.1	2.935	332.4	1034	13.16	
10/1/2010 12:00	21813	2_60	2010	274	1200	19.23	74.9	24.71	399.3	2.901	346.4	1101	13.09	
10/1/2010 13:00	21814	2_60	2010	274	1300	15.57	81.4	24.68	620.3	2.423	310.4	1259	13.04	
10/1/2010 14:00	21815	2_60	2010	274	1400	10.92	85.8	24.66	519.5	4.71	325.5	1338	12.97	
10/1/2010 15:00	21816	2_60	2010	274	1500	8.69	88.3	24.64	556.4	5.905	340.4	1459	12.94	
10/1/2010 16:00	21817	2_60	2010	274	1600	8.72	87.9	24.64	370.8	8.19	9.47	1533	12.92	
10/1/2010 17:00	21818	2_60	2010	274	1700	8.36	85.6	24.65	208.9	8.94	7.029	1608	12.93	
10/1/2010 18:00	21819	2_60	2010	274	1800	10.54	78.19	24.65	32.41	6.349	348.5	1752	12.97	
10/1/2010 19:00	21820	2_60	2010	274	1900	10.86	73.16	24.66	0.238	4.71	267.4	1845	13.05	
10/1/2010 20:00	21821	2_60	2010	274	2000	13.07	68.92	24.67	0	2.628	319.8	1939	13.11	
10/1/2010 21:00	21822	2_60	2010	274	2100	15.92	64.38	24.68	0	1.809	210.6	2057	13.18	
10/1/2010 22:00	21823	2_60	2010	274	2200	19	60.59	24.69	0.002	2.765	225.8	2143	13.23	
10/1/2010 23:00	21824	2_60	2010	274	2300	17.33	62.04	24.69	0.004	5.939	136	2256	13.26	
10/2/2010 0:00	21825	2_60	2010	275	0	19.52	59.59	24.7	0.011	7.305	129.2	2359	13.28	
10/2/2010 1:00	21826	2_60	2010	275	100	22.25	57.57	24.7	0.026	7.168	131	0	13.3	
10/2/2010 2:00	21827	2_60	2010	275	200	23.69	55.97	24.7	0.028	5.803	132.5	127	13.32	
10/2/2010 3:00	21828	2_60	2010	275	300	24.52	55.65	24.71	0.025	6.519	142.3	223	13.34	
10/2/2010 4:00	21829	2_60	2010	275	400	29.69	51.7	24.71	0.03	3.174	269.9	351	13.36	
10/2/2010 5:00	21830	2_60	2010	275	500	31.66	50.32	24.73	0.019	2.697	243.1	431	13.38	
10/2/2010 6:00	21831	2_60	2010	275	600	31.27	50.41	24.73	0.057	1.331	195.2	531	13.41	
10/2/2010 7:00	21832	2_60	2010	275	700	31.72	51.15	24.74	29.11	1.229	220.4	639	13.42	
10/2/2010 8:00	21833	2_60	2010	275	800	26.39	56.47	24.75	171.5	2.423	298.5	742	13.38	
10/2/2010 9:00	21834	2_60	2010	275	900	23.73	59.69	24.74	327.8	2.833	315.4	845	13.31	
10/2/2010 10:00	21835	2_60	2010	275	1000	19.08	65.46	24.73	464.5	2.423	344.7	939	13.23	
10/2/2010 11:00	21836	2_60	2010	275	1100	16.59	70.69	24.72	519.8	2.662	351.6	1031	13.15	
10/2/2010 12:00	21837	2_60	2010	275	1200	13.74	75.94	24.69	617.2	3.038	322.4	1124	13.08	
10/2/2010 13:00	21838	2_60	2010	275	1300	11.33	81.1	24.67	620.1	3.482	323.5	1259	13.02	
10/2/2010 14:00	21839	2_60	2010	275	1400	9.59	85.1	24.64	571.6	3.55	295	1321	12.97	
10/2/2010 15:00	21840	2_60	2010	275	1500	8.79	86.7	24.62	476.5	5.734	261	1441	12.94	
10/2/2010 16:00	21841	2_60	2010	275	1600	8.74	86.7	24.6	342.9	5.803	287.5	1528	12.94	
10/2/2010 17:00	21842	2_60	2010	275	1700	10.26	83.8	24.6	185.9	3.652	224	1613	12.95	
10/2/2010 18:00	21843	2_60	2010	275	1800	14.22	73.96	24.6	26.95	3.516	302.2	1738	12.99	
10/2/2010 19:00	21844	2_60	2010	275	1900	14.28	70.85	24.61	0.166	3.345	268.4	1850	13.07	
10/2/2010 20:00	21845	2_60	2010	275	2000	16.92	66.85	24.63	0	2.15	210.4	1957	13.13	
10/2/2010 21:00	21846	2_60	2010	275	2100	18.34	65.23	24.63	0	2.321	174	2005	13.18	
10/2/2010 22:00	21847	2_60	2010	275	2200	20.12	63.32	24.64	0.002	2.15	213.8	2106	13.21	
10/2/2010 23:00	21848	2_60	2010	275	2300	20.8	62.28	24.64	0.005	2.389	122.8	2247	13.24	
10/3/2010 0:00	21849	2_60	2010	276	0	22.49	60.48	24.65	0.015	1.843	66.48	2355	13.27	
10/3/2010 1:00	21850	2_60	2010	276	100	25.68	57.3	24.66	0.023	2.116	233.3	23	13.29	
10/3/2010 2:00	21851	2_60	2010	276	200	26.56	56.55	24.66	0.027	2.867	303.8	151	13.32	
10/3/2010 3:00	21852	2_60	2010	276	300	30.03	53.65	24.66	0.027	3.516	294.2	212	13.34	
10/3/2010 4:00	21853	2_60	2010	276	400	30.53	53.4	24.67	0.025	1.809	344.2	319	13.36	
10/3/2010 5:00	21854	2_60	2010	276	500	34.63	51.06	24.69	0.023	1.468	64.52	403	13.38	
10/3/2010 6:00	21855	2_60	2010	276	600	34.89	51.4	24.7	0.07	1.331	276.2	524	13.4	
10/3/2010 7:00	21856	2_60	2010	276	700	38.84	51.1	24.7	25.05	2.116	145.1	604	13.4	
10/3/2010 8:00	21857	2_60	2010	276	800	31.99	56.52	24.72	160.9	3.004	303.9	725	13.37	
10/3/2010 9:00	21858	2_60	2010	276	900	28.69	60.32	24.71	316.6	2.492	307.1	848	13.3	
10/3/2010 10:00	21859	2_60	2010	276	1000	24	66.02	24.7	453.2	2.97	306.6	956	13.22	
10/3/2010 11:00	21860	2_60	2010	276	1100	21.27	71.5	24.67	549.2	2.867	305.7	1058	13.14	
10/3/2010 12:00	21861	2_60	2010	276	1200	20.72	76.14	24.64	605.2	3.925	4.229	1133	13.07	
10/3/2010 13:00	21862	2_60	2010	276	1300	20.17	79.69	24.6	612.4	5.154	331.5	1248	13.01	
10/3/2010 14:00	21863	2_60	2010	276	1400	17.36	81.8	24.57	566.7	5.427	323.3	1333	12.98	
10/3/2010 15:00	21864	2_60	2010	276	1500	15.32	82.9	24.56	452.8	7.441	259.4	1447	12.96	
10/3/2010 16:00	21865	2_60	2010	276	1600	18.12	82	24.55	390.1	10.48	253.8	1515	12.95	
10/3/2010 17:00	21866	2_60	2010	276	1700	23.56	76.54	24.59	166.1	14.3	178.5	1610	12.97	
10/3/2010 18:00	21867	2_60	2010	276	1800	29.06	71.35	24.6	25.64	15.22	160.6	1749	13.03	
10/3/2010 19:00	21868	2_60	2010	276	1900	30.82	69.67	24.61	0.104	14.37	163.3	1800	13.09	
10/3/2010 20:00	21869	2_60	2010	276	2000	37.57	67.34	24.63	0	9.05	12.41	1938	13.11	
10/3/2010 21:00	21870	2_60	2010	276	2100	49.81	62.3	24.63	0	3.482	158.7	2059	13.15	
10/3/2010 22:00	21871	2_60	2010	276	2200	45.97	62.61	24.65	0.004	8.16	255.2	2156	13.19	
10/3/2010 23:00	21872	2_60	2010	276	2300	50.62	63.24	24.66	0.013	12.36	238.7	2213	13.21	

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/4/2010 0:00	21873	2_60	2010	277	0	4.490652	251.1329	52.09146	18.36	39.28	40.32	54.39	16.01	16.08	0.06767761
10/4/2010 1:00	21874	2_60	2010	277	100	3.674397	171.3165	18.21312	12.32	35.47	33.24	41.7	15.72	16.47	0.7445872
10/4/2010 2:00	21875	2_60	2010	277	200	4.21696	123.238	19.93464	8.58	32.33	22.57	36.91	15.53	15.88	0.3506954
10/4/2010 3:00	21876	2_60	2010	277	300	3.542089	159.1729	18.79189	1.377	22.6	13.62	28.64	14.6	15.51	0.9149424
10/4/2010 4:00	21877	2_60	2010	277	400	1.41929	267.0959	42.97699	5.032	13.7	7.027	15.97	12.36	14.28	1.918334
10/4/2010 5:00	21878	2_60	2010	277	500	1.054175	215.1641	27.47542	0.387	4.529	0.76	4.272	11.53	13.81	2.284212
10/4/2010 6:00	21879	2_60	2010	277	600	0.9109011	242.7019	48.60873	0.093	5.032	0.302	3.051	11.04	13.83	2.796841
10/4/2010 7:00	21880	2_60	2010	277	700	0.6552979	260.1777	18.07699	-0.263	2.891	-0.251	0.575	11.29	13.14	1.846535
10/4/2010 8:00	21881	2_60	2010	277	800	0.8264518	289.1761	22.02351	6.628	15.45	2.487	10.53	13.64	13.16	-0.4812248
10/4/2010 9:00	21882	2_60	2010	277	900	1.020526	318.9309	22.14948	6.328	38.34	4.734	33.93	15.69	14.94	-0.7434591
10/4/2010 10:00	21883	2_60	2010	277	1000	1.454785	302.8848	20.31732	1.663	41.28	0.201	37.75	17.24	16.32	-0.9160365
10/4/2010 11:00	21884	2_60	2010	277	1100	2.573192	322.7427	22.65142	10.15	49.9	1.699	51.52	20.1	18.96	-1.142225
10/4/2010 12:00	21885	2_60	2010	277	1200	2.94419	179.2744	51.80942	18.24	71.65	30.19	76.59	22.57	21.38	-1.19135
10/4/2010 13:00	21886	2_60	2010	277	1300	4.452397	221.9449	36.65023	7.213	91.3	31.29	97	23.34	22.13	-1.213517
10/4/2010 14:00	21887	2_60	2010	277	1400	4.58594	225.2996	34.54249	8.02	91.5	32.22	97.3	24.11	22.8	-1.316293
10/4/2010 15:00	21888	2_60	2010	277	1500	4.249898	202.1427	44.39491	0.143	91.2	22.26	97.2	24.23	23	-1.22366
10/4/2010 16:00	21889	2_60	2010	277	1600	5.349073	197.9809	34.15895	-0.038	96.2	28.32	105.9	23.62	22.79	-0.832554
10/4/2010 17:00	21890	2_60	2010	277	1700	11.95227	179.7876	11.26549	37.1	106.4	124	127.6	19.98	19.51	-0.4695055
10/4/2010 18:00	21891	2_60	2010	277	1800	7.200978	190.6095	19.30148	12.53	61.64	60.77	75.96	20.65	20.56	-0.08230394
10/4/2010 19:00	21892	2_60	2010	277	1900	5.484005	272.3205	19.68114	28.35	40.21	53.56	52.55	16.83	17.25	0.4201737
10/4/2010 20:00	21893	2_60	2010	277	2000	2.147973	187.0865	29.15374	4.233	13.53	9.07	19.11	14.41	16.76	2.34692
10/4/2010 21:00	21894	2_60	2010	277	2100	1.170514	168.9873	35.6441	-0.999	12.26	-0.539	9.76	14.31	16.29	1.987543
10/4/2010 22:00	21895	2_60	2010	277	2200	1.533343	150.9226	17.48709	2.468	12.33	4.991	15.02	13.04	15.98	2.943118
10/4/2010 23:00	21896	2_60	2010	277	2300	0.8071936	13.9935	44.86005	2.172	11.66	0.604	9.02	11.26	14.52	3.260432
10/5/2010 0:00	21897	2_60	2010	278	0	1.856388	91.15231	19.11382	-0.904	7.769	-1.539	6.46	12.71	14.35	1.640727
10/5/2010 1:00	21898	2_60	2010	278	100	2.225309	127.3898	18.84431	3.639	15.87	8.38	19.16	13.91	15.32	1.414504
10/5/2010 2:00	21899	2_60	2010	278	200	1.583869	233.9293	51.72178	7.079	21.58	9.52	25.53	13.25	14.58	1.328366
10/5/2010 3:00	21900	2_60	2010	278	300	1.239777	279.627	28.5597	1.372	11.6	0.652	9.07	12.41	13.43	1.011163
10/5/2010 4:00	21901	2_60	2010	278	400	2.560078	185.3422	26.18433	2.274	35.69	12.24	39.15	13.08	14	0.925957
10/5/2010 5:00	21902	2_60	2010	278	500	5.336595	128.7852	8.887794	7.004	29.53	27.11	35.38	12.56	13.29	0.7261096
10/5/2010 6:00	21903	2_60	2010	278	600	2.454921	262.1307	45.30709	13.99	31.81	18.5	35.3	12.64	13.77	1.123126
10/5/2010 7:00	21904	2_60	2010	278	700	1.611745	268.1476	33.9126	7.195	13.92	4.719	11.06	10.86	12.25	1.397569
10/5/2010 8:00	21905	2_60	2010	278	800	0.9122405	293.4581	47.77135	-0.707	11.16	0.646	8.39	12.64	12.85	0.2146926
10/5/2010 9:00	21906	2_60	2010	278	900	0.7310194	352.4482	37.16776	2.205	31.1	0.577	25.66	15.2	14.62	-0.576488
10/5/2010 10:00	21907	2_60	2010	278	1000	1.107054	46.50969	45.87324	4.515	45.64	-0.135	44.88	17.44	16.71	-0.7328023
10/5/2010 11:00	21908	2_60	2010	278	1100	1.319732	318.0925	39.64237	11.18	49.01	10.21	48.52	19.28	18.48	-0.7983142
10/5/2010 12:00	21909	2_60	2010	278	1200	2.408321	310.1932	19.70935	9.08	37.11	6.735	37.82	20.48	19.65	-0.8392791
10/5/2010 13:00	21910	2_60	2010	278	1300	3.856874	252.4962	20.34705	6.143	51.85	21.82	56.02	21.38	20.46	-0.9132671
10/5/2010 14:00	21911	2_60	2010	278	1400	2.174402	260.7987	49.5481	6.502	43.22	13.56	42.88	21.57	20.88	-0.6849741
10/5/2010 15:00	21912	2_60	2010	278	1500	3.648508	68.0971	40.7656	3.873	33.31	2.482	36.88	20.44	20.01	-0.4306807
10/5/2010 16:00	21913	2_60	2010	278	1600	1.923266	37.49509	35.96758	13.09	37.34	9.74	34.72	21.17	20.35	-0.8188552
10/5/2010 17:00	21914	2_60	2010	278	1700	2.511459	32.51192	22.60232	11.11	21.55	2.052	20.46	20.69	20.24	-0.450118
10/5/2010 18:00	21915	2_60	2010	278	1800	3.814396	202.5164	18.99341	11.33	29.76	37.59	45.05	19.91	20.01	0.103212
10/5/2010 19:00	21916	2_60	2010	278	1900	8.376608	236.9851	6.414369	24.59	45.88	87.3	55.06	18.31	18.27	-0.04494599
10/5/2010 20:00	21917	2_60	2010	278	2000	6.078675	220.3881	10.27155	22.62	40.8	73.27	50.51	17.52	17.53	0.01103375
10/5/2010 21:00	21918	2_60	2010	278	2100	2.802781	287.9189	45.88499	13.84	38.54	17.21	46.45	16.43	16.76	0.3322366
10/5/2010 22:00	21919	2_60	2010	278	2200	4.316399	191.3719	21.58343	13.81	39.71	45.25	56.47	14.97	15.69	0.7237264
10/5/2010 23:00	21920	2_60	2010	278	2300	2.793839	300.2095	39.74131	10.99	36.57	16.38	45.71	13.29	13.52	0.2316162
10/6/2010 0:00	21921	2_60	2010	279	0	1.519528	271.8503	20.08073	2.528	12.72	2.186	7.986	12.45	12.77	0.3228953
10/6/2010 1:00	21922	2_60	2010	279	100	1.129701	265.6265	24.69159	1.628	6.795	1.786	7.72	11.88	13.02	1.130238
10/6/2010 2:00	21923	2_60	2010	279	200	1.127596	69.30988	34.4142	5.678	14.78	2.348	10.84	12.03	12.45	0.4204062
10/6/2010 3:00	21924	2_60	2010	279	300	0.5635968	192.5939	28.21131	3.507	11.67	3.457	11.84	12.34	12.99	0.648744
10/6/2010 4:00	21925	2_60	2010	279	400	1.775919	8.058965	26.11428	6.727	23.96	3.402	23.07	12.17	12.47	0.3073425
10/6/2010 5:00	21926	2_60	2010	279	500	6.078188	230.2313	10.78885	10.82	53.41	53.64	62.19	12.96	13.17	0.2111447
10/6/2010 6:00	21927	2_60	2010	279	600	4.968045	207.4064	52.27333	11.64	64.23	44.14	82	12.01	12.23	0.2237946
10/6/2010 7:00	21928	2_60	2010	279	700	2.510187	104.1546	50.6062	4.646	18.15	4.205	20.42	11	11.37	0.3755959
10/6/2010 8:00	21929	2_60	2010	279	800	2.653544	124.8779	33.0112	0.992	26.49	3.444	30.36	11.29	11.03	-0.2660502
10/6/2010 9:00	21930	2_60	2010	279	900	2.216359	117.7753	19.39297	-2.836	30.32	-0.695	33.33	12.87	12.12	-0.748828
10/6/2010 10:00	21931	2_60	2010	279	1000	2.357157	92.28205	21.32517	-3.893	35.99	-6.704	37.49	14.56	13.73	-0.8326741
10/6/2010 11:00	21932	2_60	2010	279	1100	2.224121	8.684212	34.36596	7.867	51.95	-0.632	55.01	16.23	15.3	-0.9283953
10/6/2010 12:00	21933	2_60	2010	279	1200	1.42159	39.99744	53.05386	5.355	54.99	0.402	57.04	18.14	17.22	-0.9205783
10/6/2010 13:00	21934	2_60	2010	279	1300	2.683671	313.4397	28.71243	15.81	45.93	11.25	47.42	19.72	18.67	-1.048805
10/6/2010 14:00	21935	2_60	2010	279	1400	6.590074	150.3301	22.63295	2.731	80.5	31.79	93.5	23.96	22.87	-1.093863
10/6/2010 15:00	21936	2_60	2010	279	1500	8.328226	150.982	20.7608	12.95	99.7	53.76	117.8	22.74	22.47	-0.2694676
10/6/2010 16:00	21937	2_60	2010	279	1600	5.756101	264.8198	46.7887	17.77	71.14	43.78	83.1	AQ	AQ	AQ
10/6/2010 17:00	21938	2_60	2010	279	1700	2.08127	263.4148	37.81009	7.179	19.26	7.228	17.8	12.63	13.09	0.4534329
10/6/2010 18:00	21939	2_60	2010	279	1800	1.897833	173.6317	30.11904	1.442	11.2	6.502	13.77	12.77	13.41	0.6404657
10/6/2010 19:00	21940	2_60	2010	279	1900	3.519425	143.8645	23.52437	10.93	25.68	24.3	31.65	12.81	13.65	0.8367836
10/6/2010 20:00	21941	2_60	2010	279	2000	1.006784	32.62218	52.74453	-3.62	26.12	-4.193	24.18	12.52	13.35	0.8226819
10/6/2010 21:00	21942	2_60	2010	279	2100	1.747416	263.9634	30.25476	9.68	14.35	6.714	11.32	10.98	12.14	1.153198
10/6/2010 22:00	21943	2_60	2010	279	2200	0.8065438	117.3344	31.4804	-0.118	2.19	0.086	2.524	10.55	12.12	1.569989
10/6/2010 23:00	21944	2_60	2010	279	2300	0.1544252	145.3996	10.38624	-0.259	0.099	-0.221	0.132	10.73	11.9	1.168624

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/4/2010 0:00	21873	2_60	2010	277	0	57.6	61.2	24.67	0.012	9.66	248.2	2308	13.21
10/4/2010 1:00	21874	2_60	2010	277	100	58.74	60.55	24.67	0.017	8.84	179.6	20	13.22
10/4/2010 2:00	21875	2_60	2010	277	200	54.2	60.37	24.66	0.014	7.953	130.5	142	13.24
10/4/2010 3:00	21876	2_60	2010	277	300	56.92	58.61	24.65	0.024	6.758	181.2	220	13.25
10/4/2010 4:00	21877	2_60	2010	277	400	64.42	54.94	24.65	0.036	2.731	223	317	13.27
10/4/2010 5:00	21878	2_60	2010	277	500	72.6	53.25	24.66	0.042	2.799	171.4	405	13.31
10/4/2010 6:00	21879	2_60	2010	277	600	71.71	52.4	24.67	0.069	1.809	275.2	559	13.33
10/4/2010 7:00	21880	2_60	2010	277	700	70.03	52.98	24.67	25.28	1.809	292.7	601	13.35
10/4/2010 8:00	21881	2_60	2010	277	800	62.4	58.96	24.67	167.5	1.843	309.6	723	13.32
10/4/2010 9:00	21882	2_60	2010	277	900	54.95	62.58	24.68	311.8	2.765	328.3	830	13.23
10/4/2010 10:00	21883	2_60	2010	277	1000	47.91	64.83	24.67	399.5	3.243	327.4	937	13.2
10/4/2010 11:00	21884	2_60	2010	277	1100	38.63	69.29	24.64	555.2	5.598	332.8	1044	13.14
10/4/2010 12:00	21885	2_60	2010	277	1200	29.55	73.43	24.62	489.5	9.76	215.7	1157	13.08
10/4/2010 13:00	21886	2_60	2010	277	1300	25.59	74.53	24.6	481.5	12.05	211.8	1230	13.05
10/4/2010 14:00	21887	2_60	2010	277	1400	22.41	76.04	24.56	557.1	11.47	235	1308	13.03
10/4/2010 15:00	21888	2_60	2010	277	1500	22.41	76.25	24.55	417.6	10.24	234.5	1450	13.01
10/4/2010 16:00	21889	2_60	2010	277	1600	22.68	74.93	24.57	242.6	15.12	162.8	1559	13.01
10/4/2010 17:00	21890	2_60	2010	277	1700	29.87	68.22	24.55	98.6	19.49	177.2	1615	13.05
10/4/2010 18:00	21891	2_60	2010	277	1800	24.11	69.47	24.58	25.65	14.64	243.2	1756	13.1
10/4/2010 19:00	21892	2_60	2010	277	1900	44.82	62.76	24.58	0.092	12.83	262.2	1803	13.14
10/4/2010 20:00	21893	2_60	2010	277	2000	52.11	58.33	24.61	0.01	5.086	170.2	1951	13.2
10/4/2010 21:00	21894	2_60	2010	277	2100	50.99	58.37	24.6	0.019	3.209	34.15	2018	13.24
10/4/2010 22:00	21895	2_60	2010	277	2200	54.85	56.17	24.6	0.022	2.765	112.6	2132	13.28
10/4/2010 23:00	21896	2_60	2010	277	2300	61.01	52.81	24.61	0.027	2.594	35.91	2227	13.31
10/5/2010 0:00	21897	2_60	2010	278	0	57.47	55.21	24.61	0.031	3.516	76.55	2345	13.33
10/5/2010 1:00	21898	2_60	2010	278	100	53.71	57.42	24.62	0.045	4.164	142.4	54	13.3
10/5/2010 2:00	21899	2_60	2010	278	200	58.54	56.4	24.62	0.043	3.857	128	100	13.29
10/5/2010 3:00	21900	2_60	2010	278	300	62.35	54.65	24.63	0.04	2.935	354.3	218	13.29
10/5/2010 4:00	21901	2_60	2010	278	400	69.06	55.88	24.64	0.04	6.417	176.6	333	13.3
10/5/2010 5:00	21902	2_60	2010	278	500	75.74	54.86	24.63	0.035	7.339	102.8	423	13.31
10/5/2010 6:00	21903	2_60	2010	278	600	74.82	55.33	24.65	0.067	7.236	163	501	13.3
10/5/2010 7:00	21904	2_60	2010	278	700	79.01	51.99	24.67	8.53	3.959	316.6	626	13.31
10/5/2010 8:00	21905	2_60	2010	278	800	68.2	56.09	24.68	135.2	2.389	259.1	702	13.33
10/5/2010 9:00	21906	2_60	2010	278	900	56.35	61.73	24.69	318.3	1.741	257.9	805	13.28
10/5/2010 10:00	21907	2_60	2010	278	1000	48.84	65.43	24.68	436.9	3.721	352.2	929	13.21
10/5/2010 11:00	21908	2_60	2010	278	1100	42.22	68.45	24.67	415.3	3.55	334.7	1059	13.15
10/5/2010 12:00	21909	2_60	2010	278	1200	37.83	69.64	24.66	236.2	5.086	271.9	1159	13.11
10/5/2010 13:00	21910	2_60	2010	278	1300	32.34	71.02	24.64	264.6	9.63	225.5	1241	13.09
10/5/2010 14:00	21911	2_60	2010	278	1400	31.71	71.6	24.63	197.2	6.588	263.8	1324	13.08
10/5/2010 15:00	21912	2_60	2010	278	1500	43.3	69.36	24.62	203	6.793	245.2	1401	13.08
10/5/2010 16:00	21913	2_60	2010	278	1600	37.28	71.02	24.61	273.1	5.734	17.11	1555	13.09
10/5/2010 17:00	21914	2_60	2010	278	1700	39.27	69.73	24.62	77.08	4.983	11.8	1630	13.08
10/5/2010 18:00	21915	2_60	2010	278	1800	39.42	68.19	24.64	15.06	9.45	208.2	1756	13.11
10/5/2010 19:00	21916	2_60	2010	278	1900	45.27	65.28	24.66	0.033	12.49	220.7	1822	13.13
10/5/2010 20:00	21917	2_60	2010	278	2000	50.83	63.85	24.68	0.001	10.48	206.3	1939	13.16
10/5/2010 21:00	21918	2_60	2010	278	2100	58.42	61.98	24.71	0.007	7.236	212.8	2006	13.18
10/5/2010 22:00	21919	2_60	2010	278	2200	70.96	59.38	24.74	0.028	11.2	203.6	2153	13.21
10/5/2010 23:00	21920	2_60	2010	278	2300	85.6	56.28	24.73	0.028	11.47	230.6	2205	13.25
10/6/2010 0:00	21921	2_60	2010	279	0	90.9	54.74	24.72	0.033	2.765	273.5	2307	13.27
10/6/2010 1:00	21922	2_60	2010	279	100	91.6	53.74	24.75	0.034	2.833	193.5	3	13.29
10/6/2010 2:00	21923	2_60	2010	279	200	93	53.97	24.75	0.034	2.833	12.66	122	13.3
10/6/2010 3:00	21924	2_60	2010	279	300	91.4	54.51	24.76	0.034	1.877	229.4	252	13.3
10/6/2010 4:00	21925	2_60	2010	279	400	93.2	54.18	24.77	0.032	4.164	244.7	353	13.29
10/6/2010 5:00	21926	2_60	2010	279	500	78.41	55.62	24.79	0.036	9.73	208.3	441	13.29
10/6/2010 6:00	21927	2_60	2010	279	600	76.93	54.1	24.8	0.028	12.15	219.2	511	13.3
10/6/2010 7:00	21928	2_60	2010	279	700	87.5	52.18	24.78	1.706	8.43	86.1	700	13.32
10/6/2010 8:00	21929	2_60	2010	279	800	87	52.84	24.8	108.3	9.22	74.2	701	13.33
10/6/2010 9:00	21930	2_60	2010	279	900	76.35	56.19	24.8	245.9	4.745	123.2	835	13.3
10/6/2010 10:00	21931	2_60	2010	279	1000	67.68	59.19	24.78	354.7	5.359	71.1	915	13.26
10/6/2010 11:00	21932	2_60	2010	279	1100	61.87	62.38	24.75	539.9	4.676	27.53	1030	13.21
10/6/2010 12:00	21933	2_60	2010	279	1200	54.63	66.14	24.71	517.8	4.164	351.3	1112	13.15
10/6/2010 13:00	21934	2_60	2010	279	1300	52	68.47	24.66	546.2	5.018	308.1	1228	13.1
10/6/2010 14:00	21935	2_60	2010	279	1400	26.02	75.38	24.62	476.2	13.59	160.6	1346	13.06
10/6/2010 15:00	21936	2_60	2010	279	1500	25.99	73.35	24.67	139.8	22.05	139	1454	13.05
10/6/2010 16:00	21937	2_60	2010	279	1600	59.6	60.03	24.7	3.484	15.77	238.2	1523	13.13
10/6/2010 17:00	21938	2_60	2010	279	1700	84.6	55.07	24.68	16.34	4.676	309.8	1612	13.22
10/6/2010 18:00	21939	2_60	2010	279	1800	86.3	55.32	24.67	42.75	4.642	183.8	1728	13.26
10/6/2010 19:00	21940	2_60	2010	279	1900	80.9	55.45	24.68	0.094	6.588	111.1	1840	13.28
10/6/2010 20:00	21941	2_60	2010	279	2000	81.5	54.91	24.69	0.015	3.55	28.52	1912	13.3
10/6/2010 21:00	21942	2_60	2010	279	2100	91	52.16	24.69	0.026	4.164	297.5	2010	13.31
10/6/2010 22:00	21943	2_60	2010	279	2200	90	51.3	24.69	0.031	1.809	135.1	2114	13.33
10/6/2010 23:00	21944	2_60	2010	279	2300	89.7	51.6	24.7	0.032	0.956	176.2	2258	13.34

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/7/2010 0:00	21945	2_60	2010	280	0	0.3814968	185.1568	21.51634	-0.291	0.216	-0.252	0.168	10.17	12.21	2.04638
10/7/2010 1:00	21946	2_60	2010	280	100	0.7291423	208.8708	27.26428	0.751	4.997	0.577	3.865	10.34	12.3	1.959374
10/7/2010 2:00	21947	2_60	2010	280	200	0.8206496	271.1461	20.44062	-0.115	4.396	0.073	2.344	10.01	11.28	1.274841
10/7/2010 3:00	21948	2_60	2010	280	300	0.6467976	269.775	23.42415	-0.081	3.685	0.143	1.785	9.44	10.94	1.502011
10/7/2010 4:00	21949	2_60	2010	280	400	1.133253	264.2966	19.30251	0.139	5.83	1.552	5.058	9	10.39	1.389204
10/7/2010 5:00	21950	2_60	2010	280	500	0.9753309	214.443	66.16969	1.546	8.86	2.49	9.63	8.67	10.25	1.585092
10/7/2010 6:00	21951	2_60	2010	280	600	1.3746	113.5584	36.65648	0.294	6.305	3.26	11.57	8.72	10.45	1.739078
10/7/2010 7:00	21952	2_60	2010	280	700	1.516481	279.6775	26.78942	2.455	9.22	3.95	9.45	8.01	9.92	1.907198
10/7/2010 8:00	21953	2_60	2010	280	800	0.8308045	258.1689	31.96755	1.562	9.26	1.45	8.79	9.76	10.55	0.7926741
10/7/2010 9:00	21954	2_60	2010	280	900	0.7506729	320.098	35.95549	1.882	20.8	0.314	18.27	11.78	11.34	-0.4336217
10/7/2010 10:00	21955	2_60	2010	280	1000	0.726779	282.0117	55.28372	3.259	25.87	4.827	23.76	13.28	12.69	-0.5900592
10/7/2010 11:00	21956	2_60	2010	280	1100	1.309407	310.5846	35.91747	-0.246	39.09	-2.004	38.81	16.15	15.37	-0.7761226
10/7/2010 12:00	21957	2_60	2010	280	1200	3.753967	223.7301	51.81239	-5.137	92.4	4.386	98.7	20.94	20.11	-0.8249277
10/7/2010 13:00	21958	2_60	2010	280	1300	5.319757	170.3894	51.82177	6.818	132.5	30.4	143.9	23.85	22.91	-0.9408213
10/7/2010 14:00	21959	2_60	2010	280	1400	6.038081	161.6088	26.77512	3.395	99.3	31.67	110.3	23.3	22.55	-0.7491006
10/7/2010 15:00	21960	2_60	2010	280	1500	4.100939	166.5355	50.86167	1.863	107.2	21.3	114.2	21.07	20.89	-0.1726325
10/7/2010 16:00	21961	2_60	2010	280	1600	2.358552	257.3881	68.60527	-8.09	83.8	-3.938	90.5	21.9	21.46	-0.4377974
10/7/2010 17:00	21962	2_60	2010	280	1700	5.079968	152.4584	26.50164	1.077	69.77	20.84	78.9	22.46	22.1	-0.3592081
10/7/2010 18:00	21963	2_60	2010	280	1800	6.647223	138.6903	9.383538	10.06	40.61	40.86	48.13	19.62	19.94	0.3247572
10/7/2010 19:00	21964	2_60	2010	280	1900	4.654036	138.2481	12.79619	5.14	31.33	25.38	36.25	18.34	19.69	1.348838
10/7/2010 20:00	21965	2_60	2010	280	2000	3.48921	130.25	17.19748	14.69	25.84	31.41	30.79	16.51	19.33	2.822018
10/7/2010 21:00	21966	2_60	2010	280	2100	2.262636	190.6269	41.53244	2.277	30.95	12.12	34.43	17.09	19.41	2.322199
10/7/2010 22:00	21967	2_60	2010	280	2200	3.801725	125.0362	41.75249	-5.678	55.46	3.345	59.6	17.45	18.63	1.179629
10/7/2010 23:00	21968	2_60	2010	280	2300	3.711902	140.1633	14.97834	4.253	43.63	20.14	49.57	15.52	17.5	1.985729
10/8/2010 0:00	21969	2_60	2010	281	0	5.439479	166.3505	10.20785	4.767	44.95	34.13	51.87	15.79	16.65	0.8532324
10/8/2010 1:00	21970	2_60	2010	281	100	4.838931	235.3374	14.81773	9.6	37.53	41.14	44.9	14.25	15.53	1.276272
10/8/2010 2:00	21971	2_60	2010	281	200	3.913012	256.9995	10.8867	5.288	37.69	26.66	43.09	13.85	14.65	0.7996103
10/8/2010 3:00	21972	2_60	2010	281	300	2.834622	255.1143	10.74871	7.01	17.44	22.38	22.54	10.41	13.62	3.205014
10/8/2010 4:00	21973	2_60	2010	281	400	4.750241	237.3867	7.306134	12.95	28.19	45.1	32.96	10.89	13.09	2.204592
10/8/2010 5:00	21974	2_60	2010	281	500	5.453184	228.1428	8.427671	20.72	29.09	66.3	35.64	11	12.54	1.548196
10/8/2010 6:00	21975	2_60	2010	281	600	5.101692	214.3988	8.445279	15.32	29.47	58.5	36.15	10.78	12	1.219312
10/8/2010 7:00	21976	2_60	2010	281	700	1.451716	166.5028	32.9295	5.903	24.54	11.91	30.46	9.47	10.92	1.446076
10/8/2010 8:00	21977	2_60	2010	281	800	0.976209	299.7225	45.18645	5.464	19.57	8.12	22.03	10.66	11.37	0.7069724
10/8/2010 9:00	21978	2_60	2010	281	900	2.557375	32.00908	26.11429	7.008	43.8	8.55	47.03	13.22	12.38	-0.8342684
10/8/2010 10:00	21979	2_60	2010	281	1000	3.377937	233.0674	22.43174	11.95	51.47	27.82	55.8	14.19	13.01	-1.179738
10/8/2010 11:00	21980	2_60	2010	281	1100	3.263622	228.095	24.17039	-1.046	58.96	17.03	65.8	14.84	13.67	-1.164332
10/8/2010 12:00	21981	2_60	2010	281	1200	4.386003	252.8104	26.44184	3.111	71.55	21.07	78.76	16.02	14.72	-1.302531
10/8/2010 13:00	21982	2_60	2010	281	1300	5.476386	254.1372	20.69974	18.33	67.48	45.91	77.11	16.94	15.45	-1.491447
10/8/2010 14:00	21983	2_60	2010	281	1400	5.702889	260.5901	16.51938	4.62	66.19	31.76	77.08	17.53	15.99	-1.545793
10/8/2010 15:00	21984	2_60	2010	281	1500	6.142027	257.2001	16.11731	9.96	65.23	42.64	74.37	17.99	16.51	-1.478211
10/8/2010 16:00	21985	2_60	2010	281	1600	5.766236	258.1644	19.97216	10.16	60.94	36.02	70.05	17.84	16.66	-1.182124
10/8/2010 17:00	21986	2_60	2010	281	1700	6.362663	260.3076	9.222594	4.993	46.54	42.08	53.17	16.92	16.26	-0.6621007
10/8/2010 18:00	21987	2_60	2010	281	1800	5.062344	248.8231	8.572272	18.8	30.88	48.6	34.96	14.43	15.46	1.032142
10/8/2010 19:00	21988	2_60	2010	281	1900	1.693094	186.7545	42.93173	5.543	25.51	6.183	26.37	11.81	14.24	2.428696
10/8/2010 20:00	21989	2_60	2010	281	2000	1.673071	183.1025	15.70568	6.189	15.05	10.56	16.93	9.71	13.36	3.653841
10/8/2010 21:00	21990	2_60	2010	281	2100	1.64929	215.6142	11.20151	3.764	7.711	5.641	10.13	8.62	13.11	4.484773
10/8/2010 22:00	21991	2_60	2010	281	2200	1.144941	237.8667	12.31054	1.748	5.782	0.539	3.208	8.05	12.67	4.618324
10/8/2010 23:00	21992	2_60	2010	281	2300	1.328384	198.0155	21.833	1.071	10.5	2.678	11.45	8.34	11.74	3.396043
10/9/2010 0:00	21993	2_60	2010	282	0	0.9551641	242.8044	21.43256	1.387	4.56	0.89	4.651	7.631	11.22	3.593618
10/9/2010 1:00	21994	2_60	2010	282	100	0.3571763	227.3907	53.48841	0.659	4.608	0.022	1.993	6.46	10.26	3.798966
10/9/2010 2:00	21995	2_60	2010	282	200	0.7822806	280.7505	32.05401	1.864	8.56	0.046	5.107	5.774	9.01	3.236537
10/9/2010 3:00	21996	2_60	2010	282	300	1.655862	128.497	44.8196	2.241	16.3	6.038	18.06	5.745	8.38	2.637781
10/9/2010 4:00	21997	2_60	2010	282	400	1.345532	166.961	54.98221	2.396	21.98	2.78	21.07	4.333	7.042	2.709355
10/9/2010 5:00	21998	2_60	2010	282	500	0.9055852	209.1179	25.39503	1.311	13.21	1.804	13	4.25	6.415	2.164327
10/9/2010 6:00	21999	2_60	2010	282	600	0.7196971	268.1527	25.55976	1.652	6.445	1.705	7.031	3.417	5.939	2.521996
10/9/2010 7:00	22000	2_60	2010	282	700	1.759078	286.0528	13.47998	6.018	9.08	1.348	4.465	2.813	4.485	1.672511
10/9/2010 8:00	22001	2_60	2010	282	800	0.5245414	203.2337	30.42631	1.77	10.38	0.943	8.86	6.099	5.752	-0.3468822
10/9/2010 9:00	22002	2_60	2010	282	900	0.7235398	46.39969	44.20595	4.094	33.11	3.288	32.55	8.84	8.16	-0.6765466
10/9/2010 10:00	22003	2_60	2010	282	1000	0.8135946	287.722	50.43105	12.1	50.7	14	46.68	10.96	10.04	-0.9135703
10/9/2010 11:00	22004	2_60	2010	282	1100	1.425433	335.2065	43.5206	3.874	54.51	-0.309	54.86	13.2	12.19	-1.0139
10/9/2010 12:00	22005	2_60	2010	282	1200	2.812607	289.9862	21.83197	4.812	51.47	4.055	51.31	15	13.76	-1.235795
10/9/2010 13:00	22006	2_60	2010	282	1300	2.684034	329.1257	33.1747	14.32	52.27	6.969	56.12	16.22	15.05	-1.17101
10/9/2010 14:00	22007	2_60	2010	282	1400	2.142342	301.6213	61.06053	13.83	53.83	12.29	56.37	17.29	16.02	-1.274073
10/9/2010 15:00	22008	2_60	2010	282	1500	2.861754	285.2057	38.08331	-0.148	55.93	5.851	59.13	17.57	16.57	-1.002689
10/9/2010 16:00	22009	2_60	2010	282	1600	3.37549	296.2824	15.9416	13.76	28.01	10.26	28.77	17.16	16.52	-0.6328959
10/9/2010 17:00	22010	2_60	2010	282	1700	4.783691	298.482	8.75815	30.74	27.33	26.66	28.39	16.61	16.19	-0.4181066
10/9/2010 18:00	22011	2_60	2010	282	1800	4.30736	290.6255	8.157329	15.72	27.29	16.2	23.61	13.77	15.18	1.406556
10/9/2010 19:00	22012	2_60	2010	282	1900	2.771899	288.8395	21.43086	6.217	26.68	9.35	27.17	12.71	14.12	1.406888
10/9/2010 20:00	22013	2_60	2010	282	2000	3.299985	278.0985	11.06415	0.1	21.97	11.95	23.13	11.92	13.89	1.964039
10/9/2010 21:00	22014	2_60	2010	282	2100	1.253345	177.8488	28.93297	1.58	10.77	1.677	10.73	9.75	13.02	3.27176
10/9/2010 22:00	22015	2_60	2010	282	2200	0.8839949	192.092	48.54367	0.516	14.91	1.874	13.53	8.99	12.8	3.811953
10/9/2010 23:00	22016	2_60	2010	282	2300	1.75726	132.7366	16.55311	1.575	11.48	3.127	10.79	8.64	12.48	3.83861

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/7/2010 0:00	21945	2_60	2010	280	0	90.7	50.62	24.7	0.034	1.161	216.2	2332	13.35
10/7/2010 1:00	21946	2_60	2010	280	100	89.9	50.96	24.7	0.032	1.638	209.1	20	13.36
10/7/2010 2:00	21947	2_60	2010	280	200	89.3	50.46	24.69	0.042	1.638	233.1	157	13.36
10/7/2010 3:00	21948	2_60	2010	280	300	91.7	49.36	24.68	0.049	1.741	268.3	253	13.38
10/7/2010 4:00	21949	2_60	2010	280	400	92.8	48.6	24.69	0.05	2.15	251.5	334	13.39
10/7/2010 5:00	21950	2_60	2010	280	500	94	48.04	24.69	0.054	4.847	20.05	448	13.39
10/7/2010 6:00	21951	2_60	2010	280	600	94.4	47.97	24.69	0.078	4.403	191.3	505	12.91
10/7/2010 7:00	21952	2_60	2010	280	700	94	47.23	24.7	14.02	3.311	268.4	634	12.36
10/7/2010 8:00	21953	2_60	2010	280	800	89.9	51.92	24.71	125.6	2.389	270.8	708	12.53
10/7/2010 9:00	21954	2_60	2010	280	900	83.9	55.06	24.7	228.2	1.946	328.5	817	13.37
10/7/2010 10:00	21955	2_60	2010	280	1000	79.27	57.4	24.69	297.5	2.253	276.1	931	13.31
10/7/2010 11:00	21956	2_60	2010	280	1100	65.06	62.85	24.66	441.4	4.062	329.7	1057	13.24
10/7/2010 12:00	21957	2_60	2010	280	1200	43.85	70.18	24.63	560.2	15.6	175.4	1153	13.16
10/7/2010 13:00	21958	2_60	2010	280	1300	27.6	75.49	24.6	618.6	17.37	159.5	1215	13.08
10/7/2010 14:00	21959	2_60	2010	280	1400	29	74.31	24.58	361.7	16.38	151.5	1306	13.04
10/7/2010 15:00	21960	2_60	2010	280	1500	34.56	70.43	24.57	169.5	13.93	141.8	1403	13.07
10/7/2010 16:00	21961	2_60	2010	280	1600	33.19	72.13	24.55	199.4	9.08	241	1539	13.09
10/7/2010 17:00	21962	2_60	2010	280	1700	31.22	72.93	24.54	157.6	10.55	135.5	1607	13.08
10/7/2010 18:00	21963	2_60	2010	280	1800	42.39	67.73	24.53	28.85	9.76	139	1731	13.09
10/7/2010 19:00	21964	2_60	2010	280	1900	43.28	65.43	24.55	0.055	7.646	135.9	1800	13.14
10/7/2010 20:00	21965	2_60	2010	280	2000	46.8	62.36	24.55	0.009	5.803	140.4	1952	13.18
10/7/2010 21:00	21966	2_60	2010	280	2100	35.85	63.31	24.57	0.012	4.54	135.4	2000	13.21
10/7/2010 22:00	21967	2_60	2010	280	2200	28.6	63.86	24.58	0.016	7.168	203.3	2110	13.22
10/7/2010 23:00	21968	2_60	2010	280	2300	33.78	60.49	24.59	0.024	7.236	157.1	2253	13.24
10/8/2010 0:00	21969	2_60	2010	281	0	31.65	60.84	24.6	0.026	9.01	167.5	2317	13.25
10/8/2010 1:00	21970	2_60	2010	281	100	38.39	58.12	24.6	0.031	7.817	255.3	44	13.26
10/8/2010 2:00	21971	2_60	2010	281	200	39.89	57.47	24.61	0.036	7.68	242.1	103	13.27
10/8/2010 3:00	21972	2_60	2010	281	300	54.55	51.4	24.62	0.035	5.291	248.2	258	13.31
10/8/2010 4:00	21973	2_60	2010	281	400	47.69	52.01	24.63	0.028	7.782	248.1	339	13.35
10/8/2010 5:00	21974	2_60	2010	281	500	41.08	52.3	24.62	0.03	8.64	230.2	448	13.36
10/8/2010 6:00	21975	2_60	2010	281	600	43.4	51.89	24.64	0.034	7.714	204.9	509	13.37
10/8/2010 7:00	21976	2_60	2010	281	700	47.68	49.73	24.66	21.57	4.881	214.6	601	13.39
10/8/2010 8:00	21977	2_60	2010	281	800	45.16	53.06	24.67	163.2	3.345	262	752	13.39
10/8/2010 9:00	21978	2_60	2010	281	900	35.49	57.04	24.68	317	6.007	168.5	847	13.33
10/8/2010 10:00	21979	2_60	2010	281	1000	32.69	58.43	24.69	451.4	6.997	165.4	903	13.28
10/8/2010 11:00	21980	2_60	2010	281	1100	31.36	59.51	24.69	552.1	8.16	196.9	1014	13.23
10/8/2010 12:00	21981	2_60	2010	281	1200	26.89	61.5	24.68	604.6	9.76	239.8	1140	13.19
10/8/2010 13:00	21982	2_60	2010	281	1300	24.62	63.01	24.66	606.5	10.41	255.6	1215	13.15
10/8/2010 14:00	21983	2_60	2010	281	1400	22.75	64.17	24.65	559.6	12.36	276.3	1340	13.13
10/8/2010 15:00	21984	2_60	2010	281	1500	21.19	64.93	24.65	465.3	11.03	264.1	1411	13.11
10/8/2010 16:00	21985	2_60	2010	281	1600	20.18	64.79	24.65	332.4	10.04	295.6	1502	13.11
10/8/2010 17:00	21986	2_60	2010	281	1700	21.63	63.25	24.66	175.9	9.28	266.6	1604	13.12
10/8/2010 18:00	21987	2_60	2010	281	1800	28.39	58.57	24.68	8.27	8.02	250.5	1708	13.17
10/8/2010 19:00	21988	2_60	2010	281	1900	37.5	53.8	24.69	0.047	4.983	305.3	1803	13.24
10/8/2010 20:00	21989	2_60	2010	281	2000	45.99	49.96	24.71	0.005	3.174	174.1	1923	13.31
10/8/2010 21:00	21990	2_60	2010	281	2100	50.9	47.87	24.72	0.007	2.97	177.7	2004	13.37
10/8/2010 22:00	21991	2_60	2010	281	2200	52.43	46.99	24.73	0.015	2.116	235.7	2100	13.41
10/8/2010 23:00	21992	2_60	2010	281	2300	51.65	46.97	24.73	0.029	2.492	147	2219	13.43
10/9/2010 0:00	21993	2_60	2010	282	0	54.24	45.95	24.73	0.036	2.014	217.6	2327	13.45
10/9/2010 1:00	21994	2_60	2010	282	100	57.8	44.51	24.74	0.042	1.126	99.2	48	13.47
10/9/2010 2:00	21995	2_60	2010	282	200	61.65	42.98	24.75	0.053	1.877	295	113	13.49
10/9/2010 3:00	21996	2_60	2010	282	300	61.13	42.76	24.74	0.04	4.813	133.8	239	13.51
10/9/2010 4:00	21997	2_60	2010	282	400	67.68	40.37	24.75	0.028	4.164	137.6	359	13.52
10/9/2010 5:00	21998	2_60	2010	282	500	66.68	40.37	24.75	0.024	3.857	137.7	401	13.54
10/9/2010 6:00	21999	2_60	2010	282	600	70.72	38.83	24.75	0.032	1.809	312.7	600	13.55
10/9/2010 7:00	22000	2_60	2010	282	700	74.76	37.62	24.77	22.63	3.106	297.7	606	13.57
10/9/2010 8:00	22001	2_60	2010	282	800	58.61	45.88	24.78	152.6	1.502	12.66	759	13.54
10/9/2010 9:00	22002	2_60	2010	282	900	45.59	50.45	24.78	314.5	2.116	55.44	851	13.46
10/9/2010 10:00	22003	2_60	2010	282	1000	39.1	53.83	24.76	448.9	2.492	34.27	959	13.37
10/9/2010 11:00	22004	2_60	2010	282	1100	34.32	57.43	24.76	547.9	3.652	291.1	1046	13.28
10/9/2010 12:00	22005	2_60	2010	282	1200	31.4	60.26	24.74	599	7.373	306.7	1148	13.18
10/9/2010 13:00	22006	2_60	2010	282	1300	27.8	62.38	24.71	602.1	6.724	353.1	1258	13.15
10/9/2010 14:00	22007	2_60	2010	282	1400	24.36	64.42	24.69	538.5	5.222	339.9	1300	13.11
10/9/2010 15:00	22008	2_60	2010	282	1500	22.83	64.74	24.69	305	6.281	270.3	1430	13.09
10/9/2010 16:00	22009	2_60	2010	282	1600	24.81	63.69	24.69	148.3	6.622	302	1552	13.12
10/9/2010 17:00	22010	2_60	2010	282	1700	26.07	62.62	24.69	95.7	7.782	294.5	1624	13.15
10/9/2010 18:00	22011	2_60	2010	282	1800	32.68	57.42	24.7	9.09	7.441	312	1705	13.19
10/9/2010 19:00	22012	2_60	2010	282	1900	36.87	55.35	24.71	0.021	6.281	304.5	1802	13.26
10/9/2010 20:00	22013	2_60	2010	282	2000	42.58	53.86	24.72	0.003	6.007	265	1933	13.31
10/9/2010 21:00	22014	2_60	2010	282	2100	52.96	49.99	24.74	0.004	2.97	122.9	2048	13.35
10/9/2010 22:00	22015	2_60	2010	282	2200	54.73	48.9	24.73	0.007	3.038	170.8	2150	13.39
10/9/2010 23:00	22016	2_60	2010	282	2300	55.01	47.98	24.73	0.015	3.038	117.8	2248	13.41

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
10/10/2010 0:00	22017	2_60	2010	283	0	1.703037	123.0126	16.46543	1.693	7.9	2.93	8.52	8.06	11.88	3.816471
10/10/2010 1:00	22018	2_60	2010	283	100	0.7941647	189.5626	42.82274	0.383	6.682	0.212	4.306	7.043	11.06	4.019984
10/10/2010 2:00	22019	2_60	2010	283	200	0.6101007	217.6045	20.35929	-0.016	1.545	-0.206	0.624	7.026	10.24	3.212408
10/10/2010 3:00	22020	2_60	2010	283	300	1.047493	236.1458	23.2993	0.871	3.583	0.043	1.688	5.976	10.34	4.361942
10/10/2010 4:00	22021	2_60	2010	283	400	0.5810869	201.4709	55.96957	-0.225	0.575	-0.186	0.583	6.31	9.62	3.307153
10/10/2010 5:00	22022	2_60	2010	283	500	0.9794276	268.6303	38.48098	2.11	10.73	0.855	6.142	5.515	8.5	2.984625
10/10/2010 6:00	22023	2_60	2010	283	600	0.8564073	49.36479	33.37209	1.432	5.197	0.241	3.281	5.441	8.22	2.77381
10/10/2010 7:00	22024	2_60	2010	283	700	0.4759018	291.8473	38.50842	-0.021	1.844	-0.238	0.123	5.701	8.11	2.408437
10/10/2010 8:00	22025	2_60	2010	283	800	0.3401105	89.82145	21.62434	0.166	4.45	-0.144	1.174	8.21	8.7	0.4904522
10/10/2010 9:00	22026	2_60	2010	283	900	1.002863	292.8586	19.23785	6.217	20.46	4.726	15.15	10.43	9.87	-0.5683237
10/10/2010 10:00	22027	2_60	2010	283	1000	3.252077	313.0942	21.20356	21.06	47.55	15.58	50.52	14.31	13.2	-1.112942
10/10/2010 11:00	22028	2_60	2010	283	1100	4.015917	344.7213	23.28506	13.37	59.27	-2.739	67.93	16.01	14.7	-1.302832
10/10/2010 12:00	22029	2_60	2010	283	1200	3.181304	325.096	30.38472	24.51	55.67	15.8	59.51	17.27	16.05	-1.218768
10/10/2010 13:00	22030	2_60	2010	283	1300	4.611593	326.881	25.97973	30.12	59.58	20.68	67.69	18.75	17.45	-1.299642
10/10/2010 14:00	22031	2_60	2010	283	1400	5.575177	343.5351	20.60356	30.21	61.3	13.13	71.09	19.82	18.33	-1.486515
10/10/2010 15:00	22032	2_60	2010	283	1500	7.259488	343.6901	18.78335	45.27	58.37	28.38	70.74	20.52	18.89	-1.631778
10/10/2010 16:00	22033	2_60	2010	283	1600	6.073499	354.065	19.46759	37.64	49.56	21.28	59.6	19.93	18.74	-1.187148
10/10/2010 17:00	22034	2_60	2010	283	1700	5.427018	359.5681	16.42472	26.81	41.99	8.85	49.48	19.17	18.53	-0.6390237
10/10/2010 18:00	22035	2_60	2010	283	1800	6.278264	7.240169	13.53708	33.78	34.3	13.35	41.95	17.19	17.82	0.6279342
10/10/2010 19:00	22036	2_60	2010	283	1900	1.76895	11.84376	46.14586	16.71	31.37	9.46	29.04	14.34	16.14	1.797647
10/10/2010 20:00	22037	2_60	2010	283	2000	1.052893	240.3792	54.14516	2.464	25.28	3.97	22.47	12.85	15.43	2.582688
10/10/2010 21:00	22038	2_60	2010	283	2100	1.080601	256.1811	32.10133	-0.933	20.07	-0.483	18.41	11.27	14.93	3.660788
10/10/2010 22:00	22039	2_60	2010	283	2200	2.017757	238.3485	19.40864	7.279	13.09	13.19	15.91	10.86	14.91	4.054416
10/10/2010 23:00	22040	2_60	2010	283	2300	2.0334	265.5225	9.834513	2.223	11.94	7.565	10.96	10.18	14.67	4.488585
10/11/2010 0:00	22041	2_60	2010	284	0	0.8616682	257.9685	26.80671	2.484	8.99	3.561	10.16	9.98	13.27	3.284884
10/11/2010 1:00	22042	2_60	2010	284	100	0.3909959	261.8589	50.39194	0.049	2.748	-0.145	1.04	8.64	13.22	4.580311
10/11/2010 2:00	22043	2_60	2010	284	200	1.17987	206.1696	15.16612	0.675	7.34	0.472	5.995	7.864	12.5	4.637267
10/11/2010 3:00	22044	2_60	2010	284	300	1.227658	209.4848	23.23176	3.323	12.6	3.929	11.7	7.274	11.28	4.007741
10/11/2010 4:00	22045	2_60	2010	284	400	1.216395	199.7725	14.8334	1.476	9.22	1.594	8.25	6.944	10.86	3.917974
10/11/2010 5:00	22046	2_60	2010	284	500	1.956973	254.4313	44.07816	5.748	15.91	4.955	12.44	5.925	8.62	2.692582
10/11/2010 6:00	22047	2_60	2010	284	600	0.8657902	18.01816	46.83012	2.061	5.794	-0.103	1.769	5.184	8.61	3.427985
10/11/2010 7:00	22048	2_60	2010	284	700	0.4603445	198.1019	19.25789	-0.139	9.7	0.183	7.637	5.145	8.05	2.907315
10/11/2010 8:00	22049	2_60	2010	284	800	0.4891296	246.2191	30.77029	3.9	14.42	2.445	12	8.41	8.04	-0.3735904
10/11/2010 9:00	22050	2_60	2010	284	900	1.086914	307.7651	31.94042	4.67	31.43	4.983	26.51	10.81	10.13	-0.6840087
10/11/2010 10:00	22051	2_60	2010	284	1000	1.08464	307.3211	32.32605	2.078	50.31	1.046	43.73	12.92	12.06	-0.8613803
10/11/2010 11:00	22052	2_60	2010	284	1100	0.8808649	308.3334	42.30925	5.251	43.63	4.193	36.6	15.62	14.62	-0.9959199
10/11/2010 12:00	22053	2_60	2010	284	1200	1.698156	301.3127	49.16644	8.33	52.87	7.235	51.92	18	16.96	-1.039998
10/11/2010 13:00	22054	2_60	2010	284	1300	2.342847	286.6212	45.12581	8.81	58.3	8.97	58.43	19.49	18.34	-1.14405
10/11/2010 14:00	22055	2_60	2010	284	1400	2.308773	279.9185	47.84489	15.39	64.87	17.21	63.48	20.57	19.35	-1.216473
10/11/2010 15:00	22056	2_60	2010	284	1500	3.860492	315.2752	32.83857	10.87	60.75	5.019	65.59	21.44	20.12	-1.322695
10/11/2010 16:00	22057	2_60	2010	284	1600	6.367155	316.1509	10.00411	36.25	48.26	27.65	57.31	21.68	20.28	-1.398443
10/11/2010 17:00	22058	2_60	2010	284	1700	4.910912	318.5458	13.4222	30.79	36.04	23.37	42.63	20.58	19.97	-0.6068538
10/11/2010 18:00	22059	2_60	2010	284	1800	4.498015	301.7592	9.49514	24.21	24.46	18.41	26.39	16.97	18.79	1.823349
10/11/2010 19:00	22060	2_60	2010	284	1900	1.467382	265.5631	31.48731	9.36	17.91	7.26	16.12	14.85	17.69	2.83306
10/11/2010 20:00	22061	2_60	2010	284	2000	1.403901	280.9697	28.08089	4.324	11.85	2.846	8.39	13.32	16.59	3.27063
10/11/2010 21:00	22062	2_60	2010	284	2100	0.9682748	309.3464	41.68031	1.96	14.46	0.407	9.88	12.71	14.65	1.933776
10/11/2010 22:00	22063	2_60	2010	284	2200	1.082442	202.42	23.02534	2.407	8.5	2.848	9.17	11.87	15.44	3.568815
10/11/2010 23:00	22064	2_60	2010	284	2300	1.034891	217.4518	15.21107	2.134	5.362	1.867	6.598	10.27	15.43	5.166336
10/12/2010 0:00	22065	2_60	2010	285	0	0.7514408	161.3363	33.03486	1.475	8.9	1.523	8.85	11.36	14.65	3.287624
10/12/2010 1:00	22066	2_60	2010	285	100	0.6200328	184.4319	31.52092	0.559	11.85	-0.076	10.6	10.29	13.88	3.593961
10/12/2010 2:00	22067	2_60	2010	285	200	1.139565	175.9787	36.45912	1.176	13.44	2.519	12.28	8.98	12.53	3.543498
10/12/2010 3:00	22068	2_60	2010	285	300	0.3965994	222.077	44.42113	0.082	2.789	-0.209	1.134	8.51	11.91	3.402514
10/12/2010 4:00	22069	2_60	2010	285	400	0.8005109	159.9319	27.20025	-0.065	3.739	0.24	3.237	7.825	11.4	3.576546
10/12/2010 5:00	22070	2_60	2010	285	500	0.7902201	242.0693	33.82537	0.955	5.659	0.01	1.916	7.635	10.61	2.978371
10/12/2010 6:00	22071	2_60	2010	285	600	1.435132	296.8594	21.90633	4.253	11.07	1.137	5.596	6.205	8.81	2.60941
10/12/2010 7:00	22072	2_60	2010	285	700	1.418463	244.5764	45.79087	1.982	11.43	4.441	11.69	5.904	8.55	2.648838
10/12/2010 8:00	22073	2_60	2010	285	800	0.8108913	79.44556	27.95628	-0.37	6.089	-0.18	3.022	9.04	9.53	0.4940608
10/12/2010 9:00	22074	2_60	2010	285	900	0.4243332	329.1637	50.20893	6.095	34.27	5.114	29.12	12.44	11.8	-0.6363884
10/12/2010 10:00	22075	2_60	2010	285	1000	0.851795	307.7015	48.37688	-1.169	38.46	-1.329	33.05	14.88	14.14	-0.7489073
10/12/2010 11:00	22076	2_60	2010	285	1100	1.602786	311.2773	30.62971	9.38	48.54	7.792	46.26	17.35	16.36	-0.9860876
10/12/2010 12:00	22077	2_60	2010	285	1200	1.556758	272.9286	31.82414	8.34	54.39	10.78	53.08	19.45	18.31	-1.134964
10/12/2010 13:00	22078	2_60	2010	285	1300	2.52253	301.3346	34.77647	10.53	58.94	10.68	60.21	20.88	19.64	-1.242905
10/12/2010 14:00	22079	2_60	2010	285	1400	3.600742	295.8481	23.47881	9.36	50.23	11.26	53.57	21.98	20.59	-1.390803
10/12/2010 15:00	22080	2_60	2010	285	1500	3.787681	276.5181	18.24936	7.995	49.36	15.25	52.53	22.64	21.33	-1.314936
10/12/2010 16:00	22081	2_60	2010	285	1600	3.993186	286.8517	20.20379	12.92	47.98	17.22	49.61	22.81	21.73	-1.084403
10/12/2010 17:00	22082	2_60	2010	285	1700	3.598147	298.1013	15.73074	13.97	32.4	18.36	27.44	21.58	21.26	-0.3263481
10/12/2010 18:00	22083	2_60	2010	285	1800	3.688093	311.7182	20.95204	23.85	30.13	24.88	28.38	18.16	19.67	1.503469
10/12/2010 19:00	22084	2_60	2010	285	1900	2.865396	277.2875	14.65482	3.306	19.4	10.57	18.3	15.93	18.82	2.890834
10/12/2010 20:00	22085	2_60	2010	285	2000	1.405401	265.7966	12.99527	0.616	9.18	1.219	5.431	14.05	18.17	4.121643
10/12/2010 21:00	22086	2_60	2010	285	2100	2.547106	277.9558	9.289383	-2.044	16.83	4.915	9.5	12.76	18.03	5.272165
10/12/2010 22:00	22087	2_60	2010	285	2200	2.298798	291.742	10.36665	10.95	12.96	3.259	6.565	12.87	17.1	4.230671
10/12/2010 23:00	22088	2_60	2010	285	2300	1.644569	227.8522	31.21381	11.59	16.19	15.56	19	11.02	16.19	5.167192

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/10/2010 0:00	22017	2_60	2010	283	0	57.5	46.84	24.72	0.024	3.516	135.3	2315	13.43
10/10/2010 1:00	22018	2_60	2010	283	100	62.76	44.94	24.72	0.036	1.809	250.7	45	13.45
10/10/2010 2:00	22019	2_60	2010	283	200	61.77	45.16	24.72	0.04	1.707	180.6	141	13.46
10/10/2010 3:00	22020	2_60	2010	283	300	67.82	43.03	24.71	0.046	1.604	259.4	253	13.48
10/10/2010 4:00	22021	2_60	2010	283	400	65.75	43.83	24.71	0.04	1.502	214.3	359	13.49
10/10/2010 5:00	22022	2_60	2010	283	500	69.06	42.61	24.71	0.054	2.662	311.7	415	13.5
10/10/2010 6:00	22023	2_60	2010	283	600	70.16	42.32	24.71	0.035	2.287	58.87	535	13.51
10/10/2010 7:00	22024	2_60	2010	283	700	71.35	42.96	24.72	21.3	1.502	251.5	625	13.51
10/10/2010 8:00	22025	2_60	2010	283	800	64.11	47.98	24.72	103.8	1.092	87.7	728	13.47
10/10/2010 9:00	22026	2_60	2010	283	900	52.61	52.32	24.72	223.6	2.185	354.4	818	13.41
10/10/2010 10:00	22027	2_60	2010	283	1000	39.49	58.89	24.7	437.5	6.69	337.6	936	13.33
10/10/2010 11:00	22028	2_60	2010	283	1100	36.19	61.48	24.68	534.8	8.33	341.9	1013	13.24
10/10/2010 12:00	22029	2_60	2010	283	1200	33.02	64.07	24.65	505.2	7.509	331.8	1153	13.17
10/10/2010 13:00	22030	2_60	2010	283	1300	29.55	66.35	24.61	506.3	10.85	328.1	1248	13.14
10/10/2010 14:00	22031	2_60	2010	283	1400	25.94	68.12	24.58	546.5	10.44	17.59	1321	13.09
10/10/2010 15:00	22032	2_60	2010	283	1500	23.83	69.24	24.58	482.9	13.18	353.6	1455	13.07
10/10/2010 16:00	22033	2_60	2010	283	1600	24.25	68.36	24.57	305.3	11.03	323.6	1511	13.06
10/10/2010 17:00	22034	2_60	2010	283	1700	23.94	67.22	24.57	161.4	9.05	332.2	1600	13.08
10/10/2010 18:00	22035	2_60	2010	283	1800	27.26	63.44	24.57	7.242	11.33	348.3	1702	13.12
10/10/2010 19:00	22036	2_60	2010	283	1900	35.17	58.33	24.58	0.03	6.793	15.02	1803	13.19
10/10/2010 20:00	22037	2_60	2010	283	2000	42.51	55.35	24.59	0.005	2.935	316.7	1933	13.26
10/10/2010 21:00	22038	2_60	2010	283	2100	49.28	52.71	24.59	0.006	3.277	277	2029	13.31
10/10/2010 22:00	22039	2_60	2010	283	2200	51.2	52.24	24.6	0.006	3.482	229.5	2126	13.35
10/10/2010 23:00	22040	2_60	2010	283	2300	53.93	51.16	24.6	0.006	3.174	262.3	2211	13.37
10/11/2010 0:00	22041	2_60	2010	284	0	55.26	50.44	24.59	0.007	2.321	277.8	2300	13.39
10/11/2010 1:00	22042	2_60	2010	284	100	61.51	47.71	24.59	0.018	1.536	235.3	1	13.42
10/11/2010 2:00	22043	2_60	2010	284	200	63.46	46.66	24.59	0.033	3.55	130.9	158	13.44
10/11/2010 3:00	22044	2_60	2010	284	300	65.01	45.71	24.59	0.035	4.198	145.5	203	13.45
10/11/2010 4:00	22045	2_60	2010	284	400	66.6	44.99	24.59	0.047	4.096	137.9	357	13.47
10/11/2010 5:00	22046	2_60	2010	284	500	69.44	43.21	24.61	0.049	4.471	139.1	400	13.48
10/11/2010 6:00	22047	2_60	2010	284	600	72.6	41.81	24.62	0.053	2.423	83.2	504	13.51
10/11/2010 7:00	22048	2_60	2010	284	700	72.36	42.06	24.63	17.49	2.082	136	634	13.52
10/11/2010 8:00	22049	2_60	2010	284	800	56.74	49.87	24.64	153.6	1.502	340.1	759	13.49
10/11/2010 9:00	22050	2_60	2010	284	900	48.43	53.77	24.64	304.5	2.799	259.6	830	13.4
10/11/2010 10:00	22051	2_60	2010	284	1000	41.47	57.21	24.64	437.7	2.697	329.8	914	13.29
10/11/2010 11:00	22052	2_60	2010	284	1100	32.96	62.25	24.62	535.2	2.492	313.3	1055	13.24
10/11/2010 12:00	22053	2_60	2010	284	1200	28.15	65.95	24.61	586.5	4.164	262.4	1140	13.16
10/11/2010 13:00	22054	2_60	2010	284	1300	25.49	68.18	24.58	586.4	6.588	303.8	1239	13.1
10/11/2010 14:00	22055	2_60	2010	284	1400	23.75	70.31	24.57	544.5	6.281	329.6	1316	13.06
10/11/2010 15:00	22056	2_60	2010	284	1500	23.81	71.46	24.57	485.1	8.6	336.5	1443	13.03
10/11/2010 16:00	22057	2_60	2010	284	1600	24.5	71.59	24.58	344.6	10.1	318.1	1525	13.03
10/11/2010 17:00	22058	2_60	2010	284	1700	25.49	69.96	24.58	152.8	9.9	324.4	1616	13.04
10/11/2010 18:00	22059	2_60	2010	284	1800	32.69	63.18	24.6	7.412	7.475	300.1	1722	13.09
10/11/2010 19:00	22060	2_60	2010	284	1900	38.67	59.3	24.61	0.013	5.257	308.1	1800	13.17
10/11/2010 20:00	22061	2_60	2010	284	2000	44.55	56.32	24.62	0.001	3.379	295.8	1943	13.25
10/11/2010 21:00	22062	2_60	2010	284	2100	46.37	55.53	24.63	0.005	2.628	289.3	2003	13.29
10/11/2010 22:00	22063	2_60	2010	284	2200	49.78	53.9	24.64	0.012	2.185	203.5	2116	13.33
10/11/2010 23:00	22064	2_60	2010	284	2300	57.13	50.8	24.64	0.018	2.423	198.9	2255	13.36
10/12/2010 0:00	22065	2_60	2010	285	0	52.3	52.76	24.65	0.018	2.219	177.8	2345	13.37
10/12/2010 1:00	22066	2_60	2010	285	100	56.16	50.86	24.65	0.016	2.048	155.7	21	13.38
10/12/2010 2:00	22067	2_60	2010	285	200	60.78	48.6	24.67	0.02	3.072	107.7	112	13.4
10/12/2010 3:00	22068	2_60	2010	285	300	61.19	48.04	24.67	0.021	1.434	144.5	232	13.42
10/12/2010 4:00	22069	2_60	2010	285	400	64.43	46.51	24.68	0.021	2.867	132.6	317	13.44
10/12/2010 5:00	22070	2_60	2010	285	500	65.11	46.25	24.69	0.015	3.106	292	400	13.45
10/12/2010 6:00	22071	2_60	2010	285	600	68.91	43.87	24.71	0.026	3.14	290.6	559	13.47
10/12/2010 7:00	22072	2_60	2010	285	700	71.41	43.29	24.73	16.14	3.413	259.6	605	13.48
10/12/2010 8:00	22073	2_60	2010	285	800	58.21	50.25	24.74	146.3	2.492	66.09	726	13.46
10/12/2010 9:00	22074	2_60	2010	285	900	41.96	57.61	24.75	295.7	1.741	317.9	843	13.38
10/12/2010 10:00	22075	2_60	2010	285	1000	37.88	61.01	24.75	429.3	2.389	297.6	954	13.28
10/12/2010 11:00	22076	2_60	2010	285	1100	34.65	64.98	24.74	526.8	4.54	316.1	1048	13.2
10/12/2010 12:00	22077	2_60	2010	285	1200	30.82	68.62	24.72	581.4	3.994	310.4	1125	13.13
10/12/2010 13:00	22078	2_60	2010	285	1300	27.13	71.04	24.7	586.1	5.222	314.6	1241	13.07
10/12/2010 14:00	22079	2_60	2010	285	1400	22.47	72.59	24.69	542.2	7.441	324.9	1344	13.04
10/12/2010 15:00	22080	2_60	2010	285	1500	19.44	73.96	24.68	444.7	6.588	303.8	1405	13.03
10/12/2010 16:00	22081	2_60	2010	285	1600	17.81	74.38	24.68	310.7	7.748	326.7	1553	13.02
10/12/2010 17:00	22082	2_60	2010	285	1700	18.58	72.18	24.7	124.9	7.168	324.5	1650	13.03
10/12/2010 18:00	22083	2_60	2010	285	1800	25.42	65.41	24.71	7.988	7.27	347.4	1701	13.09
10/12/2010 19:00	22084	2_60	2010	285	1900	27.37	61.27	24.73	0.011	5.598	265.6	1808	13.17
10/12/2010 20:00	22085	2_60	2010	285	2000	28.6	57.96	24.75	0.001	2.799	293.5	1906	13.23
10/12/2010 21:00	22086	2_60	2010	285	2100	30.62	55.68	24.77	0.003	4.164	301.5	2043	13.29
10/12/2010 22:00	22087	2_60	2010	285	2200	31.56	55.76	24.78	0.006	3.413	294.9	2100	13.32
10/12/2010 23:00	22088	2_60	2010	285	2300	41.29	52.61	24.79	0.013	2.833	249.8	2227	13.35

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
10/13/2010 0:00	22089	2_60	2010	286	0	1.220975	158.6967	19.21939	1.83	8.05	1.242	6.368	10.86	15.37	4.513247
10/13/2010 1:00	22090	2_60	2010	286	100	1.050222	187.6922	22.69763	2.542	7.987	2.445	8.51	9.56	13.71	4.154608
10/13/2010 2:00	22091	2_60	2010	286	200	1.529342	282.4092	28.62003	10.5	15.92	6.496	13.01	8.81	11.75	2.941106
10/13/2010 3:00	22092	2_60	2010	286	300	1.006018	218.8689	25.22165	0.822	14.86	0.352	12.98	7.884	11.11	3.226866
10/13/2010 4:00	22093	2_60	2010	286	400	0.9108443	160.9599	32.67513	0.87	8.73	1.112	7.162	6.58	9.98	3.401763
10/13/2010 5:00	22094	2_60	2010	286	500	0.7787489	223.3681	28.78304	0.888	6.216	0.486	3.74	6.767	9.22	2.453859
10/13/2010 6:00	22095	2_60	2010	286	600	0.8975573	266.0056	25.47456	2.258	7.944	0.856	5.363	5.451	8.58	3.124573
10/13/2010 7:00	22096	2_60	2010	286	700	0.1590609	221.9592	9.152122	-0.008	1.731	-0.282	0.071	5.899	8.34	2.446022
10/13/2010 8:00	22097	2_60	2010	286	800	0.8265669	305.7393	15.67852	4.595	11.22	1.888	7.631	7.673	7.81	0.1368337
10/13/2010 9:00	22098	2_60	2010	286	900	0.541837	296.4359	37.50985	8.06	33.79	6.382	27.03	9.78	9.08	-0.6945475
10/13/2010 10:00	22099	2_60	2010	286	1000	1.203366	304.9706	24.36717	-5.194	43.21	-4.096	39.95	12.22	11.41	-0.8169092
10/13/2010 11:00	22100	2_60	2010	286	1100	1.367462	311.3854	26.99724	1.249	48.53	-0.757	45.81	14.54	13.62	-0.9153621
10/13/2010 12:00	22101	2_60	2010	286	1200	1.306592	309.437	39.13077	-1.792	48.38	-2.683	45.67	17.4	16.39	-1.001235
10/13/2010 13:00	22102	2_60	2010	286	1300	1.535822	327.5995	52.54221	5.685	65.6	1.979	65.2	19.86	18.88	-0.9738722
10/13/2010 14:00	22103	2_60	2010	286	1400	2.583661	313.2649	37.15467	16.2	51.55	12.31	51.91	21.35	20.16	-1.189627
10/13/2010 15:00	22104	2_60	2010	286	1500	2.397489	342.4881	25.37873	8.64	51.25	0.794	53.18	21.84	20.84	-1.002061
10/13/2010 16:00	22105	2_60	2010	286	1600	2.102802	336.0112	23.66954	8.15	38.34	1.937	39.28	22.18	21.25	-0.9239371
10/13/2010 17:00	22106	2_60	2010	286	1700	1.638767	188.0775	41.14421	10.07	20.04	14.22	21.39	20.1	20.89	0.7856175
10/13/2010 18:00	22107	2_60	2010	286	1800	3.975521	231.9339	7.52578	12.08	12.76	36.58	21.96	16.64	20.19	3.552152
10/13/2010 19:00	22108	2_60	2010	286	1900	3.013803	256.0674	37.26618	14.03	24.06	27.27	31.06	15.52	18.73	3.212615
10/13/2010 20:00	22109	2_60	2010	286	2000	2.152646	274.8419	13.60128	3.056	14.35	7.903	11.72	13.66	18.13	4.467266
10/13/2010 21:00	22110	2_60	2010	286	2100	1.779537	271.7772	10.72493	1.669	10.56	8.89	10.17	12.26	17.54	5.276059
10/13/2010 22:00	22111	2_60	2010	286	2200	1.144519	199.6772	16.48323	4.412	7.802	5.213	9.94	10.71	16.43	5.717507
10/13/2010 23:00	22112	2_60	2010	286	2300	1.016288	166.0618	22.68315	1.793	9.34	1.593	6.663	10.31	14.92	4.610368
10/14/2010 0:00	22113	2_60	2010	287	0	1.132454	153.7023	24.69054	1.49	14.1	2.061	10.74	9.05	13.22	4.178502
10/14/2010 1:00	22114	2_60	2010	287	100	1.019303	262.3097	19.39626	1.23	9.29	1.195	5.738	8.91	11.36	2.444998
10/14/2010 2:00	22115	2_60	2010	287	200	0.5086405	231.7728	19.80948	0.316	5.814	0.4	4.27	8.05	10.68	2.622425
10/14/2010 3:00	22116	2_60	2010	287	300	0.4449292	221.6453	25.6431	0.382	2.774	-0.127	1.061	7.094	10.45	3.355434
10/14/2010 4:00	22117	2_60	2010	287	400	0.4437298	214.3127	24.70721	-0.213	0.927	-0.264	0.254	6.523	9.96	3.44077
10/14/2010 5:00	22118	2_60	2010	287	500	0.531538	220.8418	43.11174	-0.348	2.137	-0.261	0.316	5.887	8.72	2.832843
10/14/2010 6:00	22119	2_60	2010	287	600	0.2668924	321.3593	21.13992	-0.131	2.177	-0.284	0.455	5.954	7.94	1.986008
10/14/2010 7:00	22120	2_60	2010	287	700	0.2180829	309.4908	8.171198	-0.274	0.127	-0.262	0.101	5.092	7.525	2.43272
10/14/2010 8:00	22121	2_60	2010	287	800	0.2847562	338.1841	35.12876	1.562	8.11	0.488	4.008	7.503	7.735	0.2314298
10/14/2010 9:00	22122	2_60	2010	287	900	0.4838681	336.963	36.05534	2.101	36.75	3.549	30.48	10.58	10.03	-0.5506665
10/14/2010 10:00	22123	2_60	2010	287	1000	0.9033068	337.918	42.32523	7.909	48.47	6.346	43.52	12.85	12.12	-0.7288805
10/14/2010 11:00	22124	2_60	2010	287	1100	0.9257501	300.7653	42.04282	1.016	51.01	0.833	46.4	15.17	14.24	-0.9257473
10/14/2010 12:00	22125	2_60	2010	287	1200	1.056422	306.3716	46.35726	16.82	52.22	13.33	47.99	17.99	16.97	-1.022668
10/14/2010 13:00	22126	2_60	2010	287	1300	1.454872	301.7869	39.4254	-2.24	51.47	-3.379	48.32	20.09	19.14	-0.9523158
10/14/2010 14:00	22127	2_60	2010	287	1400	1.964738	317.748	40.42228	11.78	61.33	8.44	61.11	22.03	20.94	-1.084172
10/14/2010 15:00	22128	2_60	2010	287	1500	1.819674	331.222	62.5966	2.087	56.23	0.897	56.32	22.99	22.05	-0.9425294
10/14/2010 16:00	22129	2_60	2010	287	1600	1.619023	11.37736	44.82764	-3.512	40.86	-5.749	39.06	23.28	22.43	-0.8487039
10/14/2010 17:00	22130	2_60	2010	287	1700	3.191146	256.2033	14.82119	11.92	19.55	25.01	24	21.48	22.26	0.7748471
10/14/2010 18:00	22131	2_60	2010	287	1800	4.715051	247.4773	5.667606	17.71	15.73	46.68	21.98	17.2	21.3	4.09916
10/14/2010 19:00	22132	2_60	2010	287	1900	3.189188	277.0743	40.96629	15.66	31.96	29.06	43.63	16.71	19.4	2.696176
10/14/2010 20:00	22133	2_60	2010	287	2000	1.700006	203.1729	26.14878	5.94	16.34	12.7	19.52	14.9	18.53	3.630174
10/14/2010 21:00	22134	2_60	2010	287	2100	0.7670053	254.1796	23.80554	1.447	7.314	2.224	8.8	13.96	18.12	4.168734
10/14/2010 22:00	22135	2_60	2010	287	2200	0.841843	232.5097	34.32248	0.895	5.512	0.79	5.02	11.56	16.9	5.343269
10/14/2010 23:00	22136	2_60	2010	287	2300	0.7758741	257.4464	27.13895	1.372	6.551	0.431	3.388	10.42	15.27	4.846309
10/15/2010 0:00	22137	2_60	2010	288	0	0.4230512	147.2902	30.98737	1.768	10.52	0.407	7.072	8.73	13.79	5.057436
10/15/2010 1:00	22138	2_60	2010	288	100	0.773829	243.5245	17.79495	-1.405	5.344	-0.075	1.297	8.08	11.6	3.522958
10/15/2010 2:00	22139	2_60	2010	288	200	0.4095134	259.0905	30.24713	-0.494	3.684	-0.25	0.833	8.27	11.4	3.122788
10/15/2010 3:00	22140	2_60	2010	288	300	0.8480119	168.6353	23.40663	-0.126	5.71	1.324	4.98	7.315	10.01	2.694106
10/15/2010 4:00	22141	2_60	2010	288	400	0.359822	118.2511	35.58333	-1.491	13.52	-1.699	11.87	6.721	9.97	3.244654
10/15/2010 5:00	22142	2_60	2010	288	500	1.939845	288.9797	12.02806	7.263	13.57	5.847	10.12	5.642	7.536	1.89467
10/15/2010 6:00	22143	2_60	2010	288	600	1.393544	269.3586	11.75751	-2.088	7.073	2.358	5.926	5.425	7.09	1.664923
10/15/2010 7:00	22144	2_60	2010	288	700	0.71688	131.4473	18.30828	-0.219	0.6	-0.244	0.136	4.645	7.642	2.997073
10/15/2010 8:00	22145	2_60	2010	288	800	0.4794864	327.0488	24.87504	0.928	7.334	0.556	5.015	7.751	8	0.2491723
10/15/2010 9:00	22146	2_60	2010	288	900	1.175886	307.1359	29.15326	16.23	37.66	13.71	34.85	10.08	9.34	-0.7431439
10/15/2010 10:00	22147	2_60	2010	288	1000	0.8254818	314.2599	36.08546	2.743	43.59	1.791	39.74	12.44	11.68	-0.7579409
10/15/2010 11:00	22148	2_60	2010	288	1100	1.174239	320.3542	35.11823	5.377	50.13	3.205	46.91	15.14	14.24	-0.9000078
10/15/2010 12:00	22149	2_60	2010	288	1200	1.544298	309.2042	26.48003	2.589	50.79	0.949	49.3	17.75	16.75	-0.9989589
10/15/2010 13:00	22150	2_60	2010	288	1300	1.492844	306.8329	32.57364	3.533	44.61	1.143	42.68	20.5	19.49	-1.019016
10/15/2010 14:00	22151	2_60	2010	288	1400	1.80474	335.2724	28.74071	14.67	58.87	8.4	59.91	22.69	21.65	-1.043639
10/15/2010 15:00	22152	2_60	2010	288	1500	2.306922	298.8745	25.93738	7.324	48.35	6.807	47.57	23.31	22.21	-1.097763
10/15/2010 16:00	22153	2_60	2010	288	1600	3.025394	313.4854	24.22943	8.92	40.65	6.474	41.46	23.52	22.55	-0.9615451
10/15/2010 17:00	22154	2_60	2010	288	1700	2.405001	268.2485	12.21757	2.165	18.25	11.74	17.83	21.34	22.07	0.729355
10/15/2010 18:00	22155	2_60	2010	288	1800	2.903714	274.3742	9.6861	-3.605	14.72	11.89	14.76	17.19	21.18	3.990929
10/15/2010 19:00	22156	2_60	2010	288	1900	1.962717	269.7805	18.13606	6.867	13.21	9.29	13.25	15.22	20.29	5.068101
10/15/2010 20:00	22157	2_60	2010	288	2000	1.503341	251.8367	10.50524	6.017	6.352	1.864	5.156	13.21	19.79	6.583389
10/15/2010 21:00	22158	2_60	2010	288	2100	0.9503248	224.6171	27.52181	1.771	5.735	0.583	3.405	12.8	18.57	5.769835
10/15/2010 22:00	22159	2_60	2010	288	2200	0.5111151	261.818	26.52718	0.942	5.646	0.023	2.515	12.26	17.25	4.988682
10/15/2010 23:00	22160	2_60	2010	288	2300	0.5170001	213.5745	33.16702	0.27	2.397	-0.213	0.218	11.11	15.73	4.61925

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/13/2010 0:00	22089	2_60	2010	286	0	43.48	51.9	24.79	0.009	2.116	134.4	2325	13.37
10/13/2010 1:00	22090	2_60	2010	286	100	47.19	49.49	24.8	0.006	2.185	211.7	9	13.39
10/13/2010 2:00	22091	2_60	2010	286	200	48.99	48.27	24.81	0.01	3.618	293.3	129	13.42
10/13/2010 3:00	22092	2_60	2010	286	300	52.23	46.64	24.81	0.009	3.789	130.9	213	13.44
10/13/2010 4:00	22093	2_60	2010	286	400	56.66	44.51	24.81	0.03	3.243	123.9	332	13.46
10/13/2010 5:00	22094	2_60	2010	286	500	55.9	44.73	24.83	0.026	3.277	97.8	458	13.49
10/13/2010 6:00	22095	2_60	2010	286	600	61.39	42.44	24.84	0.044	2.355	133.4	501	13.5
10/13/2010 7:00	22096	2_60	2010	286	700	61.12	42.97	24.85	14.74	1.297	157.3	638	13.52
10/13/2010 8:00	22097	2_60	2010	286	800	54.73	47.65	24.87	146.5	2.048	329.4	740	13.49
10/13/2010 9:00	22098	2_60	2010	286	900	44.58	52.27	24.88	298.6	1.468	255.6	836	13.42
10/13/2010 10:00	22099	2_60	2010	286	1000	37.23	56.38	24.87	432	3.072	300.7	943	13.33
10/13/2010 11:00	22100	2_60	2010	286	1100	32.06	60.1	24.86	529.6	4.437	340.4	1042	13.25
10/13/2010 12:00	22101	2_60	2010	286	1200	27.25	65.01	24.84	583.5	3.243	342.1	1157	13.17
10/13/2010 13:00	22102	2_60	2010	286	1300	22.29	69.41	24.82	586.1	3.994	31.43	1254	13.1
10/13/2010 14:00	22103	2_60	2010	286	1400	16.75	71.79	24.8	539	6.451	288.8	1320	13.05
10/13/2010 15:00	22104	2_60	2010	286	1500	13.65	72.67	24.79	445.1	5.325	337.3	1414	13.03
10/13/2010 16:00	22105	2_60	2010	286	1600	12.45	73.34	24.78	310	4.198	31.42	1512	13.02
10/13/2010 17:00	22106	2_60	2010	286	1700	16.18	69.68	24.78	141.4	3.004	203.9	1627	13.03
10/13/2010 18:00	22107	2_60	2010	286	1800	20.63	62.27	24.79	6.746	6.519	241.5	1758	13.1
10/13/2010 19:00	22108	2_60	2010	286	1900	21.14	60.68	24.81	0.006	6.758	240.2	1803	13.18
10/13/2010 20:00	22109	2_60	2010	286	2000	31.11	57.37	24.82	0.002	3.618	272.1	1902	13.24
10/13/2010 21:00	22110	2_60	2010	286	2100	35.51	54.7	24.83	0.005	2.492	270.8	2038	13.3
10/13/2010 22:00	22111	2_60	2010	286	2200	40.1	51.79	24.84	0.011	2.492	223.2	2112	13.34
10/13/2010 23:00	22112	2_60	2010	286	2300	41.18	51.1	24.84	0.015	2.867	127.7	2213	13.37
10/14/2010 0:00	22113	2_60	2010	287	0	45.06	48.87	24.84	0.009	4.335	123.7	2317	13.4
10/14/2010 1:00	22114	2_60	2010	287	100	44.28	48.56	24.85	0.01	2.116	271.7	42	13.43
10/14/2010 2:00	22115	2_60	2010	287	200	46.75	46.8	24.85	0.012	1.809	243.2	125	13.45
10/14/2010 3:00	22116	2_60	2010	287	300	50.44	45.05	24.85	0.01	1.399	169.8	219	13.47
10/14/2010 4:00	22117	2_60	2010	287	400	52.66	43.95	24.86	0.011	1.024	220.1	337	13.49
10/14/2010 5:00	22118	2_60	2010	287	500	53.7	43.08	24.86	0.018	1.57	272.9	411	13.5
10/14/2010 6:00	22119	2_60	2010	287	600	52.76	43.16	24.87	0.038	1.161	301.1	553	13.52
10/14/2010 7:00	22120	2_60	2010	287	700	55.94	41.89	24.88	13.61	0.922	32.57	656	13.53
10/14/2010 8:00	22121	2_60	2010	287	800	45.4	48.13	24.89	147.3	1.229	303.5	735	13.51
10/14/2010 9:00	22122	2_60	2010	287	900	34.05	54.08	24.89	300.3	1.877	323	847	13.42
10/14/2010 10:00	22123	2_60	2010	287	1000	30.14	57.63	24.88	433.4	3.106	328.1	948	13.33
10/14/2010 11:00	22124	2_60	2010	287	1100	26.95	61.31	24.86	531.3	2.97	316.2	1036	13.24
10/14/2010 12:00	22125	2_60	2010	287	1200	23	66.56	24.84	583.6	3.174	300.5	1142	13.16
10/14/2010 13:00	22126	2_60	2010	287	1300	20.33	70.13	24.8	585.2	4.198	296.4	1251	13.09
10/14/2010 14:00	22127	2_60	2010	287	1400	16.07	73.26	24.78	535.9	6.144	322.6	1344	13.04
10/14/2010 15:00	22128	2_60	2010	287	1500	13.03	75.12	24.76	440.6	5.905	8.28	1455	13.01
10/14/2010 16:00	22129	2_60	2010	287	1600	11.91	75.8	24.75	308.6	4.028	266.5	1554	13
10/14/2010 17:00	22130	2_60	2010	287	1700	11.76	72.23	24.73	137.4	5.666	250.1	1635	13.01
10/14/2010 18:00	22131	2_60	2010	287	1800	17.45	63.46	24.73	6.065	6.485	240.2	1757	13.09
10/14/2010 19:00	22132	2_60	2010	287	1900	16.37	62.88	24.74	0.003	6.69	246.2	1812	13.17
10/14/2010 20:00	22133	2_60	2010	287	2000	18.78	59.37	24.75	0	3.925	208.5	1922	13.23
10/14/2010 21:00	22134	2_60	2010	287	2100	20.91	57.73	24.75	0.001	2.901	213.5	2013	13.28
10/14/2010 22:00	22135	2_60	2010	287	2200	25.76	53.64	24.76	0.007	2.082	218	2118	13.32
10/14/2010 23:00	22136	2_60	2010	287	2300	28.43	51.17	24.75	0.014	1.843	228.9	2204	13.36
10/15/2010 0:00	22137	2_60	2010	288	0	31.62	48.63	24.76	0.018	1.434	117.4	2309	13.4
10/15/2010 1:00	22138	2_60	2010	288	100	34.1	46.9	24.76	0.015	1.604	273.3	22	13.43
10/15/2010 2:00	22139	2_60	2010	288	200	33.5	47.5	24.76	0.008	1.877	274	159	13.46
10/15/2010 3:00	22140	2_60	2010	288	300	37.86	45.54	24.75	0.008	2.662	272.3	206	13.48
10/15/2010 4:00	22141	2_60	2010	288	400	40.57	44.67	24.75	0.008	1.707	109.2	323	13.49
10/15/2010 5:00	22142	2_60	2010	288	500	44.25	42.57	24.76	0.011	3.345	305.1	425	13.51
10/15/2010 6:00	22143	2_60	2010	288	600	46.76	42.09	24.76	0.012	2.935	269.3	506	13.52
10/15/2010 7:00	22144	2_60	2010	288	700	50.62	40.87	24.76	12.89	1.536	145.1	605	13.54
10/15/2010 8:00	22145	2_60	2010	288	800	39.47	47.98	24.77	144	1.536	318.8	757	13.51
10/15/2010 9:00	22146	2_60	2010	288	900	31.67	52.44	24.77	295.6	3.004	294.1	814	13.43
10/15/2010 10:00	22147	2_60	2010	288	1000	27.16	56.79	24.75	429	2.628	336.6	939	13.34
10/15/2010 11:00	22148	2_60	2010	288	1100	23.8	61.33	24.73	525.3	3.038	328.7	1026	13.25
10/15/2010 12:00	22149	2_60	2010	288	1200	20.07	65.53	24.7	576.2	3.482	302.9	1111	13.17
10/15/2010 13:00	22150	2_60	2010	288	1300	16.11	70.76	24.67	577.7	3.447	290.4	1205	13.1
10/15/2010 14:00	22151	2_60	2010	288	1400	15.09	74.3	24.65	528	4.062	350.8	1341	13.04
10/15/2010 15:00	22152	2_60	2010	288	1500	14.58	75.56	24.63	432.6	4.745	295.6	1424	13.01
10/15/2010 16:00	22153	2_60	2010	288	1600	14.57	75.64	24.62	298.5	6.349	318.9	1519	13
10/15/2010 17:00	22154	2_60	2010	288	1700	17.86	71.9	24.62	127.9	4.13	272.5	1636	13.01
10/15/2010 18:00	22155	2_60	2010	288	1800	25.1	63.55	24.64	5.935	4.369	261.5	1722	13.09
10/15/2010 19:00	22156	2_60	2010	288	1900	27.69	59.93	24.65	0.001	4.028	277.3	1848	13.17
10/15/2010 20:00	22157	2_60	2010	288	2000	31.83	55.87	24.65	0	2.594	243.9	1900	13.24
10/15/2010 21:00	22158	2_60	2010	288	2100	31.52	55.58	24.66	0.003	1.946	188.3	2050	13.3
10/15/2010 22:00	22159	2_60	2010	288	2200	32.61	54.43	24.66	0.006	1.536	260.8	2116	13.33
10/15/2010 23:00	22160	2_60	2010	288	2300	35.49	52.43	24.67	0.012	1.365	209.5	2202	13.36

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/16/2010 0:00	22161	2_60	2010	289	0	0.7396964	158.9329	31.54453	1.508	9.49	1.104	8.49	9.53	14.52	4.997063
10/16/2010 1:00	22162	2_60	2010	289	100	0.4470596	230.7343	32.34181	1.232	7.272	0.681	4.854	9.7	13.05	3.356329
10/16/2010 2:00	22163	2_60	2010	289	200	1.544217	172.6658	25.9742	4.639	19.08	8.53	21.54	8.95	11.98	3.033128
10/16/2010 3:00	22164	2_60	2010	289	300	0.9849998	220.08	45.76751	4.337	12.07	3.322	10.99	7.465	10.98	3.517346
10/16/2010 4:00	22165	2_60	2010	289	400	1.19236	280.0053	44.33827	1.567	8.82	1.483	7.39	6.957	9.58	2.620376
10/16/2010 5:00	22166	2_60	2010	289	500	0.7961534	184.3577	40.77649	0.237	12.93	1.014	12.09	5.976	9.54	3.568253
10/16/2010 6:00	22167	2_60	2010	289	600	0.4868236	237.4429	28.22528	0.5	4.46	0.183	2.486	5.228	9.18	3.947843
10/16/2010 7:00	22168	2_60	2010	289	700	0.9531724	289.7713	19.39717	-0.604	6.493	0.021	1.434	5.962	8.2	2.238163
10/16/2010 8:00	22169	2_60	2010	289	800	1.099574	284.8436	29.26126	-2.499	11.02	0.188	4.772	7.568	7.953	0.3846132
10/16/2010 9:00	22170	2_60	2010	289	900	1.516114	296.3292	17.17224	5.66	25.54	3.041	23.51	10.22	9.5	-0.7179127
10/16/2010 10:00	22171	2_60	2010	289	1000	0.9043036	340.787	31.26911	6.995	46.73	2.696	42.6	12.87	12.08	-0.7870356
10/16/2010 11:00	22172	2_60	2010	289	1100	1.191733	316.4463	30.14656	3.597	41.54	1.563	37.45	15.46	14.6	-0.859356
10/16/2010 12:00	22173	2_60	2010	289	1200	1.705526	309.8328	21.95251	12.56	48.62	10.26	46.58	18.58	17.52	-1.061255
10/16/2010 13:00	22174	2_60	2010	289	1300	1.906308	309.3851	25.55664	11.3	49.61	9.53	49.51	21.65	20.61	-1.036464
10/16/2010 14:00	22175	2_60	2010	289	1400	1.932082	267.6769	37.89794	13.2	56.07	16.55	54.94	23.3	22.16	-1.136071
10/16/2010 15:00	22176	2_60	2010	289	1500	2.760895	291.028	30.99119	10.47	47.04	11.33	48.28	23.93	22.72	-1.208847
10/16/2010 16:00	22177	2_60	2010	289	1600	2.752675	297.3796	22.89548	10.13	39.66	10.71	42.99	23.9	22.96	-0.9369249
10/16/2010 17:00	22178	2_60	2010	289	1700	4.549504	260.9429	12.31778	12.35	32.29	34.43	38.54	22.4	22.31	-0.0954452
10/16/2010 18:00	22179	2_60	2010	289	1800	4.516379	255.087	9.153557	13.07	24.14	36.16	28.07	18.53	21.2	2.666311
10/16/2010 19:00	22180	2_60	2010	289	1900	2.682188	260.655	17.00154	4.676	17.4	15.81	19.03	16.53	20.23	3.700931
10/16/2010 20:00	22181	2_60	2010	289	2000	0.9329765	232.2619	21.73384	2.021	7.593	0.638	4.144	14.02	19.05	5.026442
10/16/2010 21:00	22182	2_60	2010	289	2100	1.336681	193.4595	25.46018	2.702	6.027	3.288	8.01	13.39	18.12	4.727914
10/16/2010 22:00	22183	2_60	2010	289	2200	1.107171	217.9896	38.20566	0.659	14.59	-0.133	11.44	12.25	16.77	4.524195
10/16/2010 23:00	22184	2_60	2010	289	2300	1.071271	262.3261	16.89486	2.471	7.597	0.442	3.756	11.78	15.04	3.255743
10/17/2010 0:00	22185	2_60	2010	290	0	0.6694936	311.1258	40.54203	0.257	11.39	1.014	9.01	10.4	13.67	3.26908
10/17/2010 1:00	22186	2_60	2010	290	100	0.7951884	213.3264	32.22788	2.172	8.54	0.995	5.645	8.91	11.96	3.04304
10/17/2010 2:00	22187	2_60	2010	290	200	1.075081	132.7778	15.80819	0.931	4.488	0.319	2.957	7.92	11.97	4.044722
10/17/2010 3:00	22188	2_60	2010	290	300	1.30637	191.8396	35.1368	-0.335	20.76	2.375	19.06	8.29	11.77	3.484653
10/17/2010 4:00	22189	2_60	2010	290	400	0.844199	261.1846	13.84011	0.185	6.152	0.471	2.726	7.821	9.92	2.098101
10/17/2010 5:00	22190	2_60	2010	290	500	1.055856	273.6902	17.03177	4.326	12	2.155	8.71	6.547	9.03	2.484324
10/17/2010 6:00	22191	2_60	2010	290	600	0.6026797	247.3951	38.27372	-0.543	3.533	-0.231	0.269	5.585	8.04	2.459271
10/17/2010 7:00	22192	2_60	2010	290	700	0.7605432	16.95436	34.84875	-0.045	2.117	-0.234	0.67	5.631	8.1	2.467972
10/17/2010 8:00	22193	2_60	2010	290	800	0.2961632	289.76	32.0962	5.719	15.24	3.553	11.67	8.31	8.89	0.5740475
10/17/2010 9:00	22194	2_60	2010	290	900	1.033581	304.3184	23.21848	2.381	34.06	2.643	28.95	11.25	10.61	-0.6378838
10/17/2010 10:00	22195	2_60	2010	290	1000	1.003972	349.9865	37.92236	3.315	49.66	2.178	48.14	13.97	13.22	-0.7525994
10/17/2010 11:00	22196	2_60	2010	290	1100	1.569106	304.353	56.44625	-2.781	35.51	-2.453	32.23	15.3	14.52	-0.7766314
10/17/2010 12:00	22197	2_60	2010	290	1200	1.952167	294.6707	48.85207	18.4	44.54	16.34	41.76	15.78	14.76	-1.012486
10/17/2010 13:00	22198	2_60	2010	290	1300	1.359414	326.0945	44.27651	15.09	50.49	13.51	49.86	19.27	18.38	-0.8941998
10/17/2010 14:00	22199	2_60	2010	290	1400	2.47295	235.4452	46.348	6.784	48.6	18.14	50.55	21.17	20.13	-1.035325
10/17/2010 15:00	22200	2_60	2010	290	1500	3.618975	21.72438	36.47852	27.98	42.48	23.37	46.41	21.34	20.53	-0.8112299
10/17/2010 16:00	22201	2_60	2010	290	1600	2.714877	9.696862	28.62711	4.266	28.94	10.42	31.53	20.76	20.08	-0.6833044
10/17/2010 17:00	22202	2_60	2010	290	1700	1.275559	216.5486	37.28411	-0.257	14.26	2.284	13.06	19.66	19.94	0.2870292
10/17/2010 18:00	22203	2_60	2010	290	1800	2.035934	132.1697	29.38865	5.352	11.76	8.38	16.39	16.63	19.49	2.854136
10/17/2010 19:00	22204	2_60	2010	290	1900	2.108531	194.3087	47.74549	4.538	13.85	10.81	16.52	14.58	18.29	3.703277
10/17/2010 20:00	22205	2_60	2010	290	2000	1.215253	264.3834	25.24248	3.58	15.05	4.566	14.37	14.12	17.57	3.452646
10/17/2010 21:00	22206	2_60	2010	290	2100	0.9044179	127.4714	49.92068	4.753	10.66	4.186	10.87	12.86	16.66	3.800586
10/17/2010 22:00	22207	2_60	2010	290	2200	2.003172	184.459	32.41652	4.938	21.92	6.246	20.85	12.16	15.37	3.205181
10/17/2010 23:00	22208	2_60	2010	290	2300	1.944966	290.4423	41.58116	9.85	13.1	5.958	10.91	9.65	13.61	3.967014
10/18/2010 0:00	22209	2_60	2010	291	0	2.307573	273.8545	16.29597	10.43	12.86	8.93	13.38	9.48	12.37	2.886719
10/18/2010 1:00	22210	2_60	2010	291	100	1.389231	167.3571	53.36029	1.339	18.07	4.835	19.39	9.65	13.2	3.544404
10/18/2010 2:00	22211	2_60	2010	291	200	0.8298361	201.6852	46.09653	3.086	16.01	2.177	13.48	10.38	13.41	3.029044
10/18/2010 3:00	22212	2_60	2010	291	300	1.647162	258.9953	22.39751	6.531	14.79	5.096	13.15	9.33	10.77	1.449756
10/18/2010 4:00	22213	2_60	2010	291	400	0.7206123	80.32937	35.28166	0.606	5.117	-0.084	2.347	9.59	11.21	1.616919
10/18/2010 5:00	22214	2_60	2010	291	500	2.542243	182.372	56.74356	9.62	33.46	15.77	37.88	10.87	12.48	1.606335
10/18/2010 6:00	22215	2_60	2010	291	600	3.26114	166.8024	44.75753	4.851	34.78	9.28	40.34	10.29	11.36	1.066787
10/18/2010 7:00	22216	2_60	2010	291	700	3.612427	132.1699	12.05296	1.203	25.83	12.86	28.97	10.16	10.69	0.5337026
10/18/2010 8:00	22217	2_60	2010	291	800	1.961918	33.82015	32.36336	4.386	17.84	0.437	14.99	10.68	11.1	0.419419
10/18/2010 9:00	22218	2_60	2010	291	900	1.269956	295.1805	34.70477	5.287	22.3	4.117	17.49	11.89	11.35	-0.5414865
10/18/2010 10:00	22219	2_60	2010	291	1000	2.512976	303.4736	12.2313	11.55	28.5	6.965	27.54	12.08	11.31	-0.7733402
10/18/2010 11:00	22220	2_60	2010	291	1100	1.569048	300.8344	49.65985	15.02	57.34	14.55	55.72	14.97	13.79	-1.178917
10/18/2010 12:00	22221	2_60	2010	291	1200	2.618415	300.0052	18.01178	13.14	40.78	10.22	40.25	16.21	15.13	-1.076997
10/18/2010 13:00	22222	2_60	2010	291	1300	4.260169	318.8333	16.01781	21.51	50.78	13.23	55.82	17.91	16.51	-1.394544
10/18/2010 14:00	22223	2_60	2010	291	1400	6.185424	294.5046	10.92706	20.38	40.72	19.3	41.87	15.15	14.01	-1.143319
10/18/2010 15:00	22224	2_60	2010	291	1500	2.71443	298.6656	12.05956	14.38	25.29	9.94	25.23	13.91	13.2	-0.7154387
10/18/2010 16:00	22225	2_60	2010	291	1600	1.963402	313.8431	19.43449	10.41	21.35	5.51	17.92	14.76	14.32	-0.4429818
10/18/2010 17:00	22226	2_60	2010	291	1700	1.596871	299.4438	9.846756	6.469	14.61	3.631	10.74	12.94	12.81	-0.1271332
10/18/2010 18:00	22227	2_60	2010	291	1800	2.056359	118.1563	10.0209	0.551	7.837	1.756	7.644	12.35	13.11	0.7604266
10/18/2010 19:00	22228	2_60	2010	291	1900	2.627151	126.3612	30.76317	3.704	22.49	10.47	24.58	11.2	12.1	0.9046029
10/18/2010 20:00	22229	2_60	2010	291	2000	1.451322	95.49347	18.10711	-0.56	11.1	-0.676	9.76	10.8	11.93	1.121934
10/18/2010 21:00	22230	2_60	2010	291	2100	0.7871158	152.1583	27.22945	0.17	7.036	0.428	3.485	9.28	11.62	2.34031
10/18/2010 22:00	22231	2_60	2010	291	2200	0.6169623	138.8488	24.09534	-0.584	4.121	-0.193	0.566	9.17	11.16	1.991191
10/18/2010 23:00	22232	2_60	2010	291	2300	0.942335	158.7011	15.61782	0.587	7.201	1.824	7.278	9.48	10.98	1.505422

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/16/2010 0:00	22161	2_60	2010	289	0	39.5	49.82	24.67	0.016	2.116	133	2358	13.38
10/16/2010 1:00	22162	2_60	2010	289	100	39.39	49.75	24.68	0.013	1.399	221.3	7	13.41
10/16/2010 2:00	22163	2_60	2010	289	200	41.53	48.62	24.68	0.016	5.598	141.1	139	13.43
10/16/2010 3:00	22164	2_60	2010	289	300	45.43	46.55	24.68	0.009	2.253	132.4	250	13.44
10/16/2010 4:00	22165	2_60	2010	289	400	48.41	45.1	24.69	0.008	2.15	268.6	347	13.47
10/16/2010 5:00	22166	2_60	2010	289	500	52.16	43.35	24.7	0.013	2.116	101.6	404	13.49
10/16/2010 6:00	22167	2_60	2010	289	600	55.12	42	24.7	0.019	1.536	262.1	509	13.51
10/16/2010 7:00	22168	2_60	2010	289	700	52.1	43.39	24.7	11.48	2.048	286.4	638	13.52
10/16/2010 8:00	22169	2_60	2010	289	800	45.75	47.62	24.72	140.1	2.901	274.3	738	13.5
10/16/2010 9:00	22170	2_60	2010	289	900	37.9	52.17	24.72	291.6	2.799	304.2	832	13.42
10/16/2010 10:00	22171	2_60	2010	289	1000	31.03	57.19	24.71	426.5	2.594	330.2	957	13.33
10/16/2010 11:00	22172	2_60	2010	289	1100	26.68	61.9	24.69	524.3	2.97	300.5	1056	13.25
10/16/2010 12:00	22173	2_60	2010	289	1200	21.82	67.16	24.66	577.7	3.447	317.7	1132	13.16
10/16/2010 13:00	22174	2_60	2010	289	1300	15.76	72.54	24.62	581.8	4.13	289.4	1246	13.09
10/16/2010 14:00	22175	2_60	2010	289	1400	11.27	75.65	24.61	533.9	5.325	296.2	1353	13.03
10/16/2010 15:00	22176	2_60	2010	289	1500	10.47	76.88	24.6	432.1	6.793	308.8	1427	13.01
10/16/2010 16:00	22177	2_60	2010	289	1600	10.91	76.55	24.59	295.5	5.291	291.7	1512	13
10/16/2010 17:00	22178	2_60	2010	289	1700	13.11	73.62	24.6	122.2	8.67	255.5	1637	13.01
10/16/2010 18:00	22179	2_60	2010	289	1800	18.2	66.06	24.61	6.322	6.758	258.2	1717	13.08
10/16/2010 19:00	22180	2_60	2010	289	1900	21.31	62.34	24.62	0	4.437	294.1	1803	13.16
10/16/2010 20:00	22181	2_60	2010	289	2000	26.04	57.56	24.62	0	2.594	298.6	1900	13.22
10/16/2010 21:00	22182	2_60	2010	289	2100	26.81	56.5	24.63	0	2.287	219.1	2034	13.28
10/16/2010 22:00	22183	2_60	2010	289	2200	28.55	54.58	24.64	0.002	2.56	112.8	2142	13.32
10/16/2010 23:00	22184	2_60	2010	289	2300	29.37	53.77	24.64	0.008	2.389	297	2300	13.35
10/17/2010 0:00	22185	2_60	2010	290	0	31.99	51.41	24.63	0.01	2.423	296.5	2300	13.38
10/17/2010 1:00	22186	2_60	2010	290	100	35.94	48.77	24.64	0.008	2.15	318.5	23	13.4
10/17/2010 2:00	22187	2_60	2010	290	200	39.69	46.68	24.64	0.004	1.877	99	103	13.44
10/17/2010 3:00	22188	2_60	2010	290	300	38.05	47.41	24.63	0.007	4.13	150.2	226	13.45
10/17/2010 4:00	22189	2_60	2010	290	400	39.43	46.57	24.64	0.007	1.707	271.2	314	13.46
10/17/2010 5:00	22190	2_60	2010	290	500	43.71	44.33	24.64	0.008	3.823	293.1	446	13.48
10/17/2010 6:00	22191	2_60	2010	290	600	47.34	42.63	24.64	0.017	2.15	290.5	500	13.5
10/17/2010 7:00	22192	2_60	2010	290	700	47.73	42.57	24.65	11.05	1.843	45.9	631	13.51
10/17/2010 8:00	22193	2_60	2010	290	800	38.94	48.97	24.67	137.6	1.195	232.5	719	13.49
10/17/2010 9:00	22194	2_60	2010	290	900	29.56	54.71	24.67	286.6	2.833	297.9	810	13.41
10/17/2010 10:00	22195	2_60	2010	290	1000	25.67	59.5	24.66	425.3	4.164	331.2	957	13.31
10/17/2010 11:00	22196	2_60	2010	290	1100	25.12	60.82	24.64	275.8	7.27	309.6	1051	13.23
10/17/2010 12:00	22197	2_60	2010	290	1200	24.45	61.58	24.61	409.2	6.69	303	1107	13.19
10/17/2010 13:00	22198	2_60	2010	290	1300	20.19	68.31	24.58	484.1	3.447	346.5	1228	13.13
10/17/2010 14:00	22199	2_60	2010	290	1400	19.4	70.98	24.56	403.8	6.212	206.9	1332	13.08
10/17/2010 15:00	22200	2_60	2010	290	1500	20.4	70.92	24.55	163.5	9.45	265.2	1459	13.06
10/17/2010 16:00	22201	2_60	2010	290	1600	22.49	69.98	24.54	187.6	9.01	260.8	1501	13.08
10/17/2010 17:00	22202	2_60	2010	290	1700	25.13	68.18	24.53	67.37	5.803	265.3	1634	13.1
10/17/2010 18:00	22203	2_60	2010	290	1800	30.36	62.52	24.53	12.95	4.54	170.4	1753	13.14
10/17/2010 19:00	22204	2_60	2010	290	1900	33.43	58.79	24.54	0	4.369	172.9	1815	13.2
10/17/2010 20:00	22205	2_60	2010	290	2000	35.4	57.73	24.54	0.001	2.765	226.3	1928	13.26
10/17/2010 21:00	22206	2_60	2010	290	2100	38.43	55.81	24.55	0.006	2.594	141.5	2009	13.3
10/17/2010 22:00	22207	2_60	2010	290	2200	40.32	54.64	24.55	0.009	5.12	137.4	2126	13.33
10/17/2010 23:00	22208	2_60	2010	290	2300	48.49	50.09	24.56	0.012	4.403	303	2249	13.36
10/18/2010 0:00	22209	2_60	2010	291	0	50.18	49.44	24.56	0.005	4.608	300	2301	13.38
10/18/2010 1:00	22210	2_60	2010	291	100	49.34	49.9	24.55	0.003	3.379	188.1	9	13.39
10/18/2010 2:00	22211	2_60	2010	291	200	48.99	50.95	24.55	0.009	2.287	305.7	128	13.38
10/18/2010 3:00	22212	2_60	2010	291	300	52.02	49.25	24.56	0.009	3.994	301.8	223	13.38
10/18/2010 4:00	22213	2_60	2010	291	400	50.76	49.59	24.58	0.01	3.857	76.01	317	13.37
10/18/2010 5:00	22214	2_60	2010	291	500	54.42	51.84	24.58	0.018	6.997	94.5	449	13.36
10/18/2010 6:00	22215	2_60	2010	291	600	68.03	50.87	24.58	0.012	7.509	123.9	554	13.36
10/18/2010 7:00	22216	2_60	2010	291	700	66.38	50.61	24.59	3.868	5.973	126.6	601	13.36
10/18/2010 8:00	22217	2_60	2010	291	800	60.88	51.82	24.6	68.5	4.403	305.7	722	13.36
10/18/2010 9:00	22218	2_60	2010	291	900	52.99	54.62	24.6	157.5	4.437	301.6	851	13.33
10/18/2010 10:00	22219	2_60	2010	291	1000	54.98	54.53	24.6	256.8	3.994	302.7	924	13.3
10/18/2010 11:00	22220	2_60	2010	291	1100	43.3	60.71	24.58	476	3.755	348	1052	13.24
10/18/2010 12:00	22221	2_60	2010	291	1200	41.07	62.19	24.57	305.1	6.042	330.2	1143	13.18
10/18/2010 13:00	22222	2_60	2010	291	1300	37.45	64.91	24.55	496.9	10.65	300.5	1249	13.15
10/18/2010 14:00	22223	2_60	2010	291	1400	53.77	59.76	24.55	161.9	9.22	294.7	1313	13.14
10/18/2010 15:00	22224	2_60	2010	291	1500	61.01	57.63	24.54	144.9	6.315	295.9	1401	13.18
10/18/2010 16:00	22225	2_60	2010	291	1600	54.2	59.35	24.55	76.58	5.803	290.5	1551	13.2
10/18/2010 17:00	22226	2_60	2010	291	1700	75.23	55.78	24.56	84.9	3.482	272.3	1605	13.23
10/18/2010 18:00	22227	2_60	2010	291	1800	76.28	54.72	24.57	10.51	4.403	110.7	1754	13.25
10/18/2010 19:00	22228	2_60	2010	291	1900	75.76	52.56	24.59	0.007	5.427	126.1	1806	13.29
10/18/2010 20:00	22229	2_60	2010	291	2000	76.33	51.79	24.59	0.004	3.106	102.8	1910	13.32
10/18/2010 21:00	22230	2_60	2010	291	2100	79.13	49.16	24.59	0.008	2.355	169.9	2030	13.35
10/18/2010 22:00	22231	2_60	2010	291	2200	80.2	48.61	24.61	0.006	1.673	158.2	2103	13.38
10/18/2010 23:00	22232	2_60	2010	291	2300	81.9	49.51	24.6	0.011	4.13	125.8	2259	13.38

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/19/2010 0:00	22233	2_60	2010	292	0	2.332097	131.0856	17.34653	7.233	13.66	12.01	16.15	9.25	10.53	1.273011
10/19/2010 1:00	22234	2_60	2010	292	100	2.108556	137.5962	24.77721	8.74	16.88	14.4	18.82	9.47	10.45	0.9789881
10/19/2010 2:00	22235	2_60	2010	292	200	3.057644	117.4949	6.677767	-0.839	13.46	4.793	14.13	9.62	10.48	0.8651078
10/19/2010 3:00	22236	2_60	2010	292	300	0.9731223	133.571	24.85158	-0.502	1.327	-0.263	0.115	7.571	9.27	1.698922
10/19/2010 4:00	22237	2_60	2010	292	400	0.4386695	175.1276	16.28254	-0.258	0.446	-0.189	0.575	7.743	9.36	1.619614
10/19/2010 5:00	22238	2_60	2010	292	500	0.8236129	278.1526	31.14578	-0.535	7.054	0.028	2.705	7.391	8.83	1.441702
10/19/2010 6:00	22239	2_60	2010	292	600	0.7852069	254.0027	35.64761	0.42	5.457	-0.167	0.876	6.43	7.837	1.407076
10/19/2010 7:00	22240	2_60	2010	292	700	0.6191181	276.5005	32.48678	0.505	5.974	-0.278	2.047	6.415	7.985	1.570571
10/19/2010 8:00	22241	2_60	2010	292	800	1.508378	289.2224	12.12018	0.833	14.43	2.394	8.36	7.284	7.218	-0.0653129
10/19/2010 9:00	22242	2_60	2010	292	900	0.5081004	40.79091	46.85333	7.002	30.13	7.006	25.68	10.15	9.45	-0.6978832
10/19/2010 10:00	22243	2_60	2010	292	1000	0.7805426	194.067	45.68111	-8.98	42.75	-5.234	38.12	11.94	11.08	-0.8604568
10/19/2010 11:00	22244	2_60	2010	292	1100	0.8619802	295.0595	53.74207	2.884	52.08	2.81	47.48	13.81	12.87	-0.9427478
10/19/2010 12:00	22245	2_60	2010	292	1200	1.124349	351.6766	45.68516	20.94	57.14	16.62	55.76	15.89	14.92	-0.9608943
10/19/2010 13:00	22246	2_60	2010	292	1300	1.552462	318.1265	49.29027	8.77	58.19	7.741	57.38	17.75	16.62	-1.13846
10/19/2010 14:00	22247	2_60	2010	292	1400	1.719179	339.888	37.30669	2.101	55.62	-2.15	55.28	18.75	17.76	-0.991545
10/19/2010 15:00	22248	2_60	2010	292	1500	1.762781	314.6978	31.95506	7.574	51.95	4.818	51.7	19.36	18.36	-1.002738
10/19/2010 16:00	22249	2_60	2010	292	1600	2.395407	267.6671	17.15129	2.056	37.22	11.75	37.78	19.7	18.69	-1.004024
10/19/2010 17:00	22250	2_60	2010	292	1700	2.08316	260.8973	6.922231	3.113	11.37	9.94	12.33	17.36	18.35	0.9951279
10/19/2010 18:00	22251	2_60	2010	292	1800	0.9485613	262.5131	15.89364	0.707	5.11	1.267	3.795	12.8	17.67	4.873567
10/19/2010 19:00	22252	2_60	2010	292	1900	1.682369	269.2169	13.53316	1.769	11.01	6.894	10.78	12.43	16.88	4.453501
10/19/2010 20:00	22253	2_60	2010	292	2000	2.502249	273.7719	13.52874	1.089	19.71	10.89	22.13	12.8	16.23	3.437402
10/19/2010 21:00	22254	2_60	2010	292	2100	2.097461	269.55	10.80972	2.822	14.12	7.12	10.8	11.54	15.83	4.28778
10/19/2010 22:00	22255	2_60	2010	292	2200	1.052754	195.2805	13.76855	2.493	6.885	3.161	8.25	10.23	14.86	4.632799
10/19/2010 23:00	22256	2_60	2010	292	2300	2.397602	142.1146	13.42858	0.83	17.37	5.477	19.79	10.77	13.58	2.810267
10/20/2010 0:00	22257	2_60	2010	293	0	2.42648	103.8639	16.35306	-3.316	18.27	1.175	23.46	9.31	11.83	2.524029
10/20/2010 1:00	22258	2_60	2010	293	100	0.8871834	138.8672	23.88983	-0.04	6.854	-0.049	6.527	7.146	10.91	3.769334
10/20/2010 2:00	22259	2_60	2010	293	200	0.7701017	171.3619	27.05244	1.296	15.56	1.768	14.87	7.32	10.29	2.965381
10/20/2010 3:00	22260	2_60	2010	293	300	1.055569	163.7948	19.86577	-0.432	13.53	0.233	12.05	6.484	9.75	3.261837
10/20/2010 4:00	22261	2_60	2010	293	400	1.236844	254.4759	13.81484	0.627	9.56	2.657	6.665	5.22	8.15	2.928961
10/20/2010 5:00	22262	2_60	2010	293	500	1.634382	265.2896	10.93753	1.024	10.31	2.699	7.662	6.027	7.676	1.649343
10/20/2010 6:00	22263	2_60	2010	293	600	0.7028828	177.0915	37.52499	-1.441	9.47	-0.426	8.22	4.801	7.868	3.067369
10/20/2010 7:00	22264	2_60	2010	293	700	0.6934155	261.8707	38.62759	1.564	14.29	0.513	11.42	4.355	7.528	3.172761
10/20/2010 8:00	22265	2_60	2010	293	800	0.7403532	293.3127	18.8501	4.341	12.28	1.338	7.909	6.934	6.939	0.005055216
10/20/2010 9:00	22266	2_60	2010	293	900	0.7732882	328.4743	30.78811	7.732	30.41	4.676	26.13	9.41	8.74	-0.6705732
10/20/2010 10:00	22267	2_60	2010	293	1000	1.096159	318.307	43.60938	4.987	49.95	3.052	46.54	12.12	11.28	-0.8414941
10/20/2010 11:00	22268	2_60	2010	293	1100	1.354036	344.1365	36.93616	13.64	48.93	9.65	48.28	14.57	13.64	-0.9303179
10/20/2010 12:00	22269	2_60	2010	293	1200	1.248848	322.7419	37.77546	20.03	51.68	17.21	48.44	17.35	16.26	-1.08882
10/20/2010 13:00	22270	2_60	2010	293	1300	1.58236	305.8444	34.0621	1.744	52.05	-0.539	48.8	19.3	18.35	-0.9556194
10/20/2010 14:00	22271	2_60	2010	293	1400	1.32693	297.2651	38.45738	4.013	49.61	3.691	47.72	21.7	20.77	-0.9338612
10/20/2010 15:00	22272	2_60	2010	293	1500	1.611086	306.6937	53.50751	9.44	55.31	8.37	54.81	23.03	22.04	-0.9980124
10/20/2010 16:00	22273	2_60	2010	293	1600	3.330799	283.1699	11.62027	6.54	34.04	13.75	31.71	23.12	22.08	-1.043531
10/20/2010 17:00	22274	2_60	2010	293	1700	2.225888	265.5906	44.53295	2.814	15.7	7.947	16.73	21.24	21.42	0.1791494
10/20/2010 18:00	22275	2_60	2010	293	1800	4.480608	193.7725	9.769583	19.23	17.67	53.73	22.74	19.35	21.05	1.695793
10/20/2010 19:00	22276	2_60	2010	293	1900	4.356852	260.8507	19.14235	24.88	28.2	43.78	41.14	17.32	19.29	1.975612
10/20/2010 20:00	22277	2_60	2010	293	2000	12.54105	204.528	6.495782	48.25	68.53	164.7	81	15.74	15.83	0.09346735
10/20/2010 21:00	22278	2_60	2010	293	2100	14.19045	201.1438	7.442068	46.02	80.5	176.8	96.6	13.91	13.84	-0.07408221
10/20/2010 22:00	22279	2_60	2010	293	2200	14.13165	201.3434	8.842729	60.57	81.7	192.1	95.7	12.79	12.63	-0.1666585
10/20/2010 23:00	22280	2_60	2010	293	2300	10.26649	204.8082	13.57202	52.98	69.78	148.2	86.5	12.03	11.81	-0.217394
10/21/2010 0:00	22281	2_60	2010	294	0	3.296078	1.14375	44.27129	7.251	46.56	15.15	58.08	11.66	11.58	-0.08443239
10/21/2010 1:00	22282	2_60	2010	294	100	2.851149	138.6037	41.43224	16.42	43.29	26.89	49.97	10.96	11.06	0.09817176
10/21/2010 2:00	22283	2_60	2010	294	200	3.673551	113.9592	9.913348	-3.479	16.19	0.908	17.31	9.14	9.46	0.3195063
10/21/2010 3:00	22284	2_60	2010	294	300	4.108871	135.2694	11.15858	1.086	26.23	14.17	29.51	9.17	9.48	0.310428
10/21/2010 4:00	22285	2_60	2010	294	400	4.179991	152.7738	15.95892	4.965	34.57	22.27	40.05	9.62	9.99	0.3704606
10/21/2010 5:00	22286	2_60	2010	294	500	3.159028	305.4027	32.20474	13.82	22.77	8.02	19.56	8.82	9.32	0.4993368
10/21/2010 6:00	22287	2_60	2010	294	600	2.047285	327.9922	59.61242	10.83	19.33	7.775	18.99	8.82	9.28	0.458677
10/21/2010 7:00	22288	2_60	2010	294	700	1.424244	126.6263	25.37437	0.846	10.41	1.736	8.35	8.07	9.26	1.196233
10/21/2010 8:00	22289	2_60	2010	294	800	1.507463	147.5056	13.99525	-0.499	9.64	0.378	8.09	9.11	10.06	0.9460608
10/21/2010 9:00	22290	2_60	2010	294	900	0.7307907	50.04216	12.08959	4.775	15.93	2.84	12.67	10.89	10.68	-0.2121985
10/21/2010 10:00	22291	2_60	2010	294	1000	0.8937231	335.188	20.47476	6.617	28.05	4.593	22.55	12.35	11.83	-0.5224047
10/21/2010 11:00	22292	2_60	2010	294	1100	1.290861	320.4928	28.87195	5.746	41.03	3	38.39	13.47	12.76	-0.7074692
10/21/2010 12:00	22293	2_60	2010	294	1200	2.199346	304.0446	16.97937	10.06	44.35	5.912	42.78	14.98	14.05	-0.9309528
10/21/2010 13:00	22294	2_60	2010	294	1300	2.518664	302.8724	26.07146	16.73	50.11	15.27	51.2	16.07	15.1	-0.9715655
10/21/2010 14:00	22295	2_60	2010	294	1400	1.705783	282.228	32.78596	1.237	37.01	4.122	34.68	16.06	15.37	-0.6885528
10/21/2010 15:00	22296	2_60	2010	294	1500	1.618428	30.432	33.49849	4.87	30.47	-1.827	30.73	16.3	15.74	-0.557434
10/21/2010 16:00	22297	2_60	2010	294	1600	1.570272	269.4277	22.38354	5.08	16.32	4.346	14.44	16.25	15.77	-0.4721729
10/21/2010 17:00	22298	2_60	2010	294	1700	8.695543	190.0036	33.6109	29.54	48.31	99	66.69	14	13.74	-0.2613548
10/21/2010 18:00	22299	2_60	2010	294	1800	3.439041	100.3899	17.35809	6.706	33.33	6.9	36.86	10.56	10.88	0.3235617
10/21/2010 19:00	22300	2_60	2010	294	1900	1.192076	156.135	21.14964	0.923	6.711	1.853	7.092	9.19	9.27	0.08065037
10/21/2010 20:00	22301	2_60	2010	294	2000	2.890368	140.2845	33.71402	6.216	18.85	10.13	22.05	8.91	8.87	-0.03603051
10/21/2010 21:00	22302	2_60	2010	294	2100	3.060153	133.0034	9.474712	2.125	22.54	10.56	24.85	8.94	9.08	0.1338422
10/21/2010 22:00	22303	2_60	2010	294	2200	2.047193	141.9217	12.25869	0.96	10.07	3.756	11.57	7.515	9.19	1.677653
10/21/2010 23:00	22304	2_60	2010	294	2300	1.218843	172.8861	36.27361	1.977	6.266	3.038	8.98	6.973	8.6	1.631995

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/19/2010 0:00	22233	2_60	2010	292	0	83.4	48.92	24.61	0.012	4.335	123.4	2303	13.38
10/19/2010 1:00	22234	2_60	2010	292	100	83	49.47	24.61	0.012	3.789	127.2	45	13.37
10/19/2010 2:00	22235	2_60	2010	292	200	79.46	49.8	24.61	0.012	4.471	122.2	127	13.36
10/19/2010 3:00	22236	2_60	2010	292	300	86.6	46.12	24.61	0.011	1.843	118.8	207	13.38
10/19/2010 4:00	22237	2_60	2010	292	400	87.5	46.25	24.62	0.018	1.195	138.2	314	13.41
10/19/2010 5:00	22238	2_60	2010	292	500	86.7	45.77	24.62	0.018	1.843	285.5	457	13.41
10/19/2010 6:00	22239	2_60	2010	292	600	88.5	43.93	24.63	0.019	2.048	279.4	501	13.44
10/19/2010 7:00	22240	2_60	2010	292	700	87.9	44.09	24.64	10.11	1.604	293.9	647	13.46
10/19/2010 8:00	22241	2_60	2010	292	800	80.7	47.01	24.66	127.6	2.833	286.6	728	13.46
10/19/2010 9:00	22242	2_60	2010	292	900	63.75	52.91	24.67	276.2	1.638	33.74	856	13.4
10/19/2010 10:00	22243	2_60	2010	292	1000	55.85	55.62	24.66	388.5	2.56	306.9	957	13.33
10/19/2010 11:00	22244	2_60	2010	292	1100	51.26	58.86	24.65	493.6	2.799	326.2	1031	13.26
10/19/2010 12:00	22245	2_60	2010	292	1200	45.28	62.55	24.63	548.4	3.072	288.7	1141	13.18
10/19/2010 13:00	22246	2_60	2010	292	1300	36.42	65.49	24.6	558.6	6.246	325.9	1257	13.12
10/19/2010 14:00	22247	2_60	2010	292	1400	29.16	67.39	24.58	512	4.164	304.3	1301	13.07
10/19/2010 15:00	22248	2_60	2010	292	1500	28.06	68.65	24.58	414.8	4.198	344.7	1411	13.02
10/19/2010 16:00	22249	2_60	2010	292	1600	27.52	69.21	24.56	279.6	4.335	295.7	1538	13.04
10/19/2010 17:00	22250	2_60	2010	292	1700	33.62	64.54	24.56	108.2	3.857	264.2	1600	13.06
10/19/2010 18:00	22251	2_60	2010	292	1800	48.74	55.18	24.57	4.249	1.741	212.2	1733	13.15
10/19/2010 19:00	22252	2_60	2010	292	1900	48.84	54.89	24.58	0.004	3.345	309.8	1842	13.24
10/19/2010 20:00	22253	2_60	2010	292	2000	45.31	55.65	24.59	0.005	4.437	287.8	1946	13.29
10/19/2010 21:00	22254	2_60	2010	292	2100	42.7	53.53	24.6	0.008	3.277	276.6	2020	13.32
10/19/2010 22:00	22255	2_60	2010	292	2200	45.64	50.77	24.61	0.005	2.697	180.6	2151	13.36
10/19/2010 23:00	22256	2_60	2010	292	2300	45.73	51.78	24.61	0.004	4.437	131.5	2223	13.38
10/20/2010 0:00	22257	2_60	2010	293	0	56.32	49.47	24.61	0.009	4.54	121.1	2308	13.39
10/20/2010 1:00	22258	2_60	2010	293	100	66.19	45.56	24.62	0.015	2.458	85.1	23	13.42
10/20/2010 2:00	22259	2_60	2010	293	200	67.11	45.49	24.63	0.021	3.038	148.6	158	13.45
10/20/2010 3:00	22260	2_60	2010	293	300	69.19	44.25	24.63	0.039	3.345	117.4	206	13.47
10/20/2010 4:00	22261	2_60	2010	293	400	73.37	41.87	24.63	0.049	2.116	274.6	351	13.49
10/20/2010 5:00	22262	2_60	2010	293	500	69.91	43.37	24.64	0.042	2.731	246	417	13.51
10/20/2010 6:00	22263	2_60	2010	293	600	73.96	41.24	24.64	0.051	2.423	169.7	515	13.52
10/20/2010 7:00	22264	2_60	2010	293	700	75.57	40.39	24.65	8.53	1.843	304.4	649	13.53
10/20/2010 8:00	22265	2_60	2010	293	800	63.02	46.9	24.67	124.1	2.355	305.3	703	13.51
10/20/2010 9:00	22266	2_60	2010	293	900	51.82	51.43	24.67	272.9	2.014	319.6	830	13.44
10/20/2010 10:00	22267	2_60	2010	293	1000	43.84	55.96	24.65	404.8	3.14	302	941	13.35
10/20/2010 11:00	22268	2_60	2010	293	1100	37.45	59.96	24.63	501.1	3.379	347	1022	13.26
10/20/2010 12:00	22269	2_60	2010	293	1200	30.79	64.81	24.6	552.3	2.901	317.2	1125	13.18
10/20/2010 13:00	22270	2_60	2010	293	1300	26.64	68.62	24.56	554.6	3.209	310	1200	13.11
10/20/2010 14:00	22271	2_60	2010	293	1400	21.18	73.16	24.53	487.5	3.413	324.4	1355	13.05
10/20/2010 15:00	22272	2_60	2010	293	1500	16.83	74.97	24.51	397.8	4.164	5.85	1414	13.02
10/20/2010 16:00	22273	2_60	2010	293	1600	15.81	75.12	24.5	274.7	5.291	292.8	1509	13.01
10/20/2010 17:00	22274	2_60	2010	293	1700	19.28	71.2	24.5	83	4.881	170.1	1658	13.03
10/20/2010 18:00	22275	2_60	2010	293	1800	23.1	67.25	24.51	4.442	7.441	187	1715	13.09
10/20/2010 19:00	22276	2_60	2010	293	1900	28.14	63.64	24.52	0	11.06	201.7	1858	13.14
10/20/2010 20:00	22277	2_60	2010	293	2000	42.05	60.71	24.55	0.001	16.9	205.7	1937	13.19
10/20/2010 21:00	22278	2_60	2010	293	2100	52.66	57.36	24.57	0.004	19.25	194.7	2015	13.23
10/20/2010 22:00	22279	2_60	2010	293	2200	62.25	55.33	24.61	0.014	21.23	196.1	2133	13.26
10/20/2010 23:00	22280	2_60	2010	293	2300	65.17	53.92	24.64	0.017	18.53	194.2	2211	13.28
10/21/2010 0:00	22281	2_60	2010	294	0	64.62	53.3	24.65	0.015	10.04	228.4	2304	13.3
10/21/2010 1:00	22282	2_60	2010	294	100	68.89	52.17	24.64	0.022	8.47	134.5	34	13.31
10/21/2010 2:00	22283	2_60	2010	294	200	85.4	48.85	24.62	0.015	6.861	112.9	119	13.34
10/21/2010 3:00	22284	2_60	2010	294	300	82.2	48.8	24.58	0.009	6.997	120.5	213	13.36
10/21/2010 4:00	22285	2_60	2010	294	400	77.66	49.61	24.57	0.012	7.475	146.6	327	13.37
10/21/2010 5:00	22286	2_60	2010	294	500	82.8	48.28	24.55	0.009	5.291	295.9	448	13.37
10/21/2010 6:00	22287	2_60	2010	294	600	82.1	48.24	24.54	0.011	5.018	323.6	515	13.38
10/21/2010 7:00	22288	2_60	2010	294	700	85.6	46.9	24.55	3.882	3.482	186.2	634	13.39
10/21/2010 8:00	22289	2_60	2010	294	800	79.11	48.84	24.55	62.74	2.833	104.9	713	13.4
10/21/2010 9:00	22290	2_60	2010	294	900	74.93	52.57	24.55	169.1	1.775	34.66	820	13.38
10/21/2010 10:00	22291	2_60	2010	294	1000	62.27	55.46	24.54	191.6	2.423	9.96	905	13.33
10/21/2010 11:00	22292	2_60	2010	294	1100	55.8	57.61	24.52	322	2.867	320.7	1023	13.27
10/21/2010 12:00	22293	2_60	2010	294	1200	47.98	60.19	24.5	417.8	5.564	319.7	1150	13.22
10/21/2010 13:00	22294	2_60	2010	294	1300	43.35	61.75	24.46	310.3	5.325	250.9	1253	13.17
10/21/2010 14:00	22295	2_60	2010	294	1400	40.34	61.82	24.44	179.7	4.301	272	1318	13.16
10/21/2010 15:00	22296	2_60	2010	294	1500	40.7	61.96	24.43	128.6	3.652	44.58	1434	13.17
10/21/2010 16:00	22297	2_60	2010	294	1600	41.24	61.68	24.42	68.94	3.277	342.4	1516	13.18
10/21/2010 17:00	22298	2_60	2010	294	1700	47.89	57.54	24.45	21.68	15.63	168.2	1641	13.2
10/21/2010 18:00	22299	2_60	2010	294	1800	73.92	51.47	24.48	0.82	8.09	60.25	1702	13.25
10/21/2010 19:00	22300	2_60	2010	294	1900	88.6	48.84	24.48	0.009	3.072	117.1	1807	13.31
10/21/2010 20:00	22301	2_60	2010	294	2000	91.9	48.31	24.48	0.012	6.963	121	1955	13.34
10/21/2010 21:00	22302	2_60	2010	294	2100	87.2	48.38	24.47	0.012	5.291	125.3	2000	13.36
10/21/2010 22:00	22303	2_60	2010	294	2200	88.7	46.01	24.47	0.016	3.789	147.7	2106	13.38
10/21/2010 23:00	22304	2_60	2010	294	2300	90	44.86	24.46	0.018	2.15	200.4	2221	13.41

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/22/2010 0:00	22305	2_60	2010	295	0	0.6324034	246.7487	43.86857	0.066	2.664	-0.239	1.6	7.41	8.64	1.225132
10/22/2010 1:00	22306	2_60	2010	295	100	0.8928118	291.0418	26.16858	1.005	4.308	-0.212	0.521	7.338	7.876	0.5379351
10/22/2010 2:00	22307	2_60	2010	295	200	1.055575	121.6054	17.24584	-0.443	1.557	-0.289	0.628	7.658	8.31	0.6532442
10/22/2010 3:00	22308	2_60	2010	295	300	0.7334924	348.1655	18.86966	1.44	5.013	0.279	2.757	7.502	7.923	0.4205229
10/22/2010 4:00	22309	2_60	2010	295	400	0.7952437	190.0015	23.66522	-0.263	0.815	-0.129	0.655	7.459	8.24	0.7820066
10/22/2010 5:00	22310	2_60	2010	295	500	0.6271439	126.9929	31.4949	-0.502	2.629	-0.341	2.062	7.904	8.03	0.1286481
10/22/2010 6:00	22311	2_60	2010	295	600	3.390113	150.6519	34.99747	7.236	41.2	19.79	47.56	8.34	8.53	0.1904458
10/22/2010 7:00	22312	2_60	2010	295	700	2.992739	208.6544	52.65246	6.266	37.69	22.39	42.67	8.52	8.63	0.1046646
10/22/2010 8:00	22313	2_60	2010	295	800	2.711855	157.4171	28.03694	16.28	33.28	27.96	37.84	8.37	8.53	0.1603204
10/22/2010 9:00	22314	2_60	2010	295	900	2.264454	97.8884	41.93029	9.3	27.41	10.44	31.91	8.76	8.71	-0.05023814
10/22/2010 10:00	22315	2_60	2010	295	1000	1.52906	359.9434	39.28244	8.48	44.18	3.961	42.52	9.54	9.3	-0.2454433
10/22/2010 11:00	22316	2_60	2010	295	1100	1.599256	59.23951	34.64382	7.292	21.8	3.325	19.93	9.65	9.35	-0.3002133
10/22/2010 12:00	22317	2_60	2010	295	1200	2.842704	172.3658	47.31875	4.603	67.8	18.4	73.6	10.26	9.69	-0.5649681
10/22/2010 13:00	22318	2_60	2010	295	1300	2.623392	144.4181	38.78647	-10.88	56.17	-2.781	61.91	10.75	10.35	-0.3936073
10/22/2010 14:00	22319	2_60	2010	295	1400	4.23144	181.6139	21.92887	5.736	81.2	28.89	88.3	11.85	10.99	-0.8548344
10/22/2010 15:00	22320	2_60	2010	295	1500	4.371247	255.6114	26.68836	7.09	45.01	17.62	46.84	10.06	9.8	-0.2622393
10/22/2010 16:00	22321	2_60	2010	295	1600	1.777999	201.3234	39.16006	8.14	35.45	17.22	36.69	9.89	9.68	-0.2050669
10/22/2010 17:00	22322	2_60	2010	295	1700	4.18877	245.7785	20.69302	0.888	62.85	21.79	70.5	9.9	9.82	-0.07776149
10/22/2010 18:00	22323	2_60	2010	295	1800	5.685965	236.4587	13.96597	15.86	62.22	51.28	70.06	9.35	9.45	0.09572399
10/22/2010 19:00	22324	2_60	2010	295	1900	5.520226	236.8086	6.659359	20.25	31.33	60.19	37.17	8.79	9.09	0.2934954
10/22/2010 20:00	22325	2_60	2010	295	2000	4.717805	228.046	6.817739	14.2	20.17	50.03	25.01	8.42	8.74	0.3150216
10/22/2010 21:00	22326	2_60	2010	295	2100	2.643566	239.5359	45.87217	12.47	30.76	27.37	35.1	8.64	8.82	0.1770286
10/22/2010 22:00	22327	2_60	2010	295	2200	1.161667	41.60409	45.93798	5.211	33.53	2.387	31.54	8.23	8.31	0.08349848
10/22/2010 23:00	22328	2_60	2010	295	2300	3.381306	229.7311	36.04253	3.573	44.76	19.81	53.29	8.18	8.38	0.1998013
10/23/2010 0:00	22329	2_60	2010	296	0	1.608754	358.6102	53.14885	16.94	35.03	16.91	35.51	8.02	8.29	0.2763044
10/23/2010 1:00	22330	2_60	2010	296	100	1.05514	41.63257	42.67065	2.168	24.01	-0.989	23.01	7.85	7.994	0.1438906
10/23/2010 2:00	22331	2_60	2010	296	200	1.374233	287.8445	51.99315	12.36	33.41	14.82	36.49	7.819	7.997	0.1783418
10/23/2010 3:00	22332	2_60	2010	296	300	0.7712721	29.05677	46.57182	0.223	8.08	-0.388	6.494	7.376	7.406	0.02994311
10/23/2010 4:00	22333	2_60	2010	296	400	0.6845728	114.3955	40.85847	-0.055	2.368	-0.135	1.608	7.255	7.505	0.250742
10/23/2010 5:00	22334	2_60	2010	296	500	0.2786405	154.6066	24.85803	-0.176	3.644	-0.05	3.162	6.966	7.646	0.6806186
10/23/2010 6:00	22335	2_60	2010	296	600	1.262781	272.3389	43.49218	5.268	8.88	2.548	7.341	6.966	7.216	0.2497038
10/23/2010 7:00	22336	2_60	2010	296	700	0.7974668	118.3533	23.95994	0.386	3.175	0.153	2.715	6.715	6.979	0.2635063
10/23/2010 8:00	22337	2_60	2010	296	800	0.7661769	173.1407	36.72337	1.329	7.456	2.52	8.44	7.295	7.247	-0.04766193
10/23/2010 9:00	22338	2_60	2010	296	900	0.8626606	129.0777	48.96688	1.766	13.29	2.331	14.27	8.52	8.25	-0.2632859
10/23/2010 10:00	22339	2_60	2010	296	1000	1.65731	78.79799	19.64657	-0.537	20.36	-2.977	22.39	9.81	9.17	-0.6401516
10/23/2010 11:00	22340	2_60	2010	296	1100	0.8469877	356.7789	30.96787	4.323	34.52	1.196	34.35	10.24	9.73	-0.5095036
10/23/2010 12:00	22341	2_60	2010	296	1200	1.418804	80.87566	34.21695	2.041	28.87	-1.174	29.36	11.25	10.55	-0.7026678
10/23/2010 13:00	22342	2_60	2010	296	1300	3.370174	30.94607	26.46699	15.67	28.47	4.019	30.24 AQ		11.04 AQ	
10/23/2010 14:00	22343	2_60	2010	296	1400	2.557144	140.5351	38.8406	0.935	23.67	8.34	29.25	8.36	9.03	0.6699198
10/23/2010 15:00	22344	2_60	2010	296	1500	2.680514	133.7622	26.843	4.689	36.07	13.41	39.47	12.16	11.4	-0.7550133
10/23/2010 16:00	22345	2_60	2010	296	1600	7.175786	177.3163	4.925031	21.57	28.68	75.12	38.14	12.15	11.96	-0.1899964
10/23/2010 17:00	22346	2_60	2010	296	1700	9.721104	189.2775	5.099724	35.51	35.87	120.5	41.58	11.08	11.31	0.2317178
10/23/2010 18:00	22347	2_60	2010	296	1800	4.380154	181.5234	47.55959	35.03	40.41	69.92	55.38	10.63	10.9	0.2652186
10/23/2010 19:00	22348	2_60	2010	296	1900	7.57163	219.6073	12.4182	25.2	35.6	90.2	50.71	9.23	9.76	0.5258877
10/23/2010 20:00	22349	2_60	2010	296	2000	4.325908	189.0698	35.09226	24.15	35.58	58.45	51.65	9.31	9.73	0.4256312
10/23/2010 21:00	22350	2_60	2010	296	2100	5.000816	257.2287	45.79305	20.63	40.4	51.2	58.12	7.794	8.14	0.3485567
10/23/2010 22:00	22351	2_60	2010	296	2200	1.424721	128.5431	35.72121	-1.226	10.61	-0.414	10.09	6.36	7.792	1.432074
10/23/2010 23:00	22352	2_60	2010	296	2300	3.463552	111.7077	28.63324	0.868	17.7	5.53	22	6.951	8.06	1.107957
10/24/2010 0:00	22353	2_60	2010	297	0	3.945204	130.0008	8.320363	7.664	16.7	23.3	20.55	7.312	8.17	0.8591276
10/24/2010 1:00	22354	2_60	2010	297	100	2.65863	142.8636	38.75008	12.35	20.51	23.35	23.22	7.579	8.48	0.8961866
10/24/2010 2:00	22355	2_60	2010	297	200	1.278348	164.3553	37.7515	1.988	18.58	6.32	18.73	7.332	7.62	0.2885873
10/24/2010 3:00	22356	2_60	2010	297	300	1.999811	287.5414	32.03496	8.81	14.64	8.9	13.41	6.217	6.701	0.4835035
10/24/2010 4:00	22357	2_60	2010	297	400	0.6419349	263.0318	41.57494	0.403	4.57	0.677	4.858	5.896	6.472	0.5757701
10/24/2010 5:00	22358	2_60	2010	297	500	0.783332	205.5883	16.71659	-0.335	3.744	0.994	5.014	5.611	6.927	1.315515
10/24/2010 6:00	22359	2_60	2010	297	600	0.6550786	180.9732	45.78864	0.126	2.262	0.48	3.09	5.485	6.675	1.18989
10/24/2010 7:00	22360	2_60	2010	297	700	0.3535631	193.7448	10.77722	-0.323	1.306	-0.188	0.977	5.454	6.848	1.394119
10/24/2010 8:00	22361	2_60	2010	297	800	1.122501	7.252259	36.23263	0.988	7.509	-1.571	7.385	6.386	6.958	0.5718862
10/24/2010 9:00	22362	2_60	2010	297	900	0.8078769	337.5333	22.6025	4.723	19.42	2.308	17.01	8.74	8.33	-0.409202
10/24/2010 10:00	22363	2_60	2010	297	1000	0.9026825	285.6583	25.601	3.516	24.46	3.299	21.8	10.15	9.57	-0.5711048
10/24/2010 11:00	22364	2_60	2010	297	1100	2.240564	241.5228	37.14168	-5.852	48.94	1.931	50.83	12.05	11.4	-0.6505397
10/24/2010 12:00	22365	2_60	2010	297	1200	2.681304	206.9233	50.27419	-9.05	76.95	2.533	82.2	12.7	11.97	-0.7274071
10/24/2010 13:00	22366	2_60	2010	297	1300	6.095165	197.4209	24.28401	8.75	80.6	49.21	94.1	13.99	12.9	-1.096751
10/24/2010 14:00	22367	2_60	2010	297	1400	5.782712	206.9489	34.47043	17.32	82.6	55.65	90.9	14.04	13.09	-0.9501013
10/24/2010 15:00	22368	2_60	2010	297	1500	6.349754	193.7466	22.29949	15.78	88.9	58.34	98.8	13.76	13.15	-0.6138852
10/24/2010 16:00	22369	2_60	2010	297	1600	8.589904	186.3178	11.27429	11.79	76.1	71.33	91.7	13.77	13.19	-0.5792882
10/24/2010 17:00	22370	2_60	2010	297	1700	8.272809	180.3584	12.18757	5.641	75.41	58.41	89.8	13.3	13	-0.3012531
10/24/2010 18:00	22371	2_60	2010	297	1800	6.469153	188.6325	21.80723	12.72	110.4	53.55	124.3	12.8	12.73	-0.07178716
10/24/2010 19:00	22372	2_60	2010	297	1900	5.645265	185.3877	22.35558	2.755	98.6	34.52	108.9	13.01	12.95	-0.05961233
10/24/2010 20:00	22373	2_60	2010	297	2000	4.090818	171.1297	52.45629	-2.374	102.1	16.42	110.8	13.01	12.97	-0.04037958
10/24/2010 21:00	22374	2_60	2010	297	2100	4.721362	161.6299	23.88454	-1.686	92.3	20.4	100.3	13.14	13.08	-0.05884233
10/24/2010 22:00	22375	2_60	2010	297	2200	7.619272	184.3625	16.26293	7.183	84.8	55.19	97.9	13.34	13.35	0.006699691
10/24/2010 23:00	22376	2_60	2010	297	2300	6.268286	180.3483	30.89192	5.879	100.7	43.22	113.8	13.43	13.47	0.03633838

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/22/2010 0:00	22305	2_60	2010	295	0	90.1	45.67	24.45	0.03	2.458	299.3	2358	13.42
10/22/2010 1:00	22306	2_60	2010	295	100	92.5	45.53	24.44	0.024	2.492	310.6	10	13.41
10/22/2010 2:00	22307	2_60	2010	295	200	92.4	46.06	24.44	0.028	1.775	153.2	112	13.41
10/22/2010 3:00	22308	2_60	2010	295	300	93.1	45.93	24.43	0.016	1.638	336.4	233	13.4
10/22/2010 4:00	22309	2_60	2010	295	400	93	45.56	24.42	0.037	1.502	193.8	311	13.41
10/22/2010 5:00	22310	2_60	2010	295	500	92.6	46.69	24.42	0.023	1.57	116.5	412	13.4
10/22/2010 6:00	22311	2_60	2010	295	600	87.1	47.23	24.42	0.022	6.588	186.5	549	13.39
10/22/2010 7:00	22312	2_60	2010	295	700	82.8	47.72	24.41	0.773	6.929	192.4	612	13.4
10/22/2010 8:00	22313	2_60	2010	295	800	83.9	47.34	24.42	22.51	6.349	166.1	737	13.4
10/22/2010 9:00	22314	2_60	2010	295	900	85.5	48.1	24.43	61.18	5.086	184.7	849	13.4
10/22/2010 10:00	22315	2_60	2010	295	1000	77.59	49.54	24.42	71.76	4.506	287.8	921	13.37
10/22/2010 11:00	22316	2_60	2010	295	1100	79.22	49.73	24.42	56.12	2.867	45.71	1029	13.35
10/22/2010 12:00	22317	2_60	2010	295	1200	75.78	50.86	24.4	200.7	7.066	146.2	1158	13.34
10/22/2010 13:00	22318	2_60	2010	295	1300	71.82	51.66	24.38	95.8	7.202	126.7	1237	13.32
10/22/2010 14:00	22319	2_60	2010	295	1400	66.12	53.64	24.36	340.9	9.11	200.8	1351	13.3
10/22/2010 15:00	22320	2_60	2010	295	1500	78.54	50.53	24.37	71.31	9.76	290.3	1413	13.29
10/22/2010 16:00	22321	2_60	2010	295	1600	79.85	50.15	24.37	77.63	4.574	194.2	1534	13.33
10/22/2010 17:00	22322	2_60	2010	295	1700	77.27	50.17	24.36	31.17	9.25	253	1613	13.35
10/22/2010 18:00	22323	2_60	2010	295	1800	77.24	49.21	24.37	0.764	9.56	221.8	1755	13.37
10/22/2010 19:00	22324	2_60	2010	295	1900	78.24	48.19	24.39	0.004	9.39	228.2	1810	13.38
10/22/2010 20:00	22325	2_60	2010	295	2000	82.1	47.47	24.39	0.008	7.202	243.1	1912	13.39
10/22/2010 21:00	22326	2_60	2010	295	2100	80.5	47.88	24.4	0.006	6.656	223.7	2010	13.4
10/22/2010 22:00	22327	2_60	2010	295	2200	85.9	47.13	24.42	0.01	3.686	261.3	2151	13.39
10/22/2010 23:00	22328	2_60	2010	295	2300	81.9	47.04	24.41	0.009	8.19	243.5	2212	13.4
10/23/2010 0:00	22329	2_60	2010	296	0	84.7	46.73	24.41	0.022	4.437	292.7	2345	13.41
10/23/2010 1:00	22330	2_60	2010	296	100	86.5	46.39	24.42	0.026	3.072	22.63	0	13.41
10/23/2010 2:00	22331	2_60	2010	296	200	87.4	46.42	24.42	0.012	5.222	238.4	121	13.4
10/23/2010 3:00	22332	2_60	2010	296	300	92.8	45.63	24.42	0.013	2.697	348.5	248	13.41
10/23/2010 4:00	22333	2_60	2010	296	400	92.7	45.34	24.42	0.011	1.707	78.44	323	13.41
10/23/2010 5:00	22334	2_60	2010	296	500	92.5	44.85	24.43	0.011	1.195	217.3	455	13.42
10/23/2010 6:00	22335	2_60	2010	296	600	94.1	44.99	24.45	0.017	2.423	318.7	537	13.42
10/23/2010 7:00	22336	2_60	2010	296	700	95.8	44.4	24.46	4.78	1.946	190.5	625	13.42
10/23/2010 8:00	22337	2_60	2010	296	800	95.8	45.26	24.48	33.22	1.604	218.7	730	13.42
10/23/2010 9:00	22338	2_60	2010	296	900	90.4	47.62	24.49	88.8	2.731	86.4	854	13.4
10/23/2010 10:00	22339	2_60	2010	296	1000	82.7	50.43	24.49	232.9	3.379	54.54	942	13.37
10/23/2010 11:00	22340	2_60	2010	296	1100	78.67	51.41	24.49	194.8	2.935	328.8	1044	13.33
10/23/2010 12:00	22341	2_60	2010	296	1200	75.16	53	24.48	257.2	3.174	79.88	1155	13.3
10/23/2010 13:00	22342	2_60	2010	296	1300	71.95	53.42	24.48	138.6	13.62	272.3	1259	13.27
10/23/2010 14:00	22343	2_60	2010	296	1400	81.4	47.49	24.45	159.5	14.51	267.3	1300	13.32
10/23/2010 15:00	22344	2_60	2010	296	1500	69.88	54.61	24.44	389	5.871	105.2	1433	13.3
10/23/2010 16:00	22345	2_60	2010	296	1600	64.25	54.24	24.45	143.8	11.3	184	1556	13.25
10/23/2010 17:00	22346	2_60	2010	296	1700	66.53	52.28	24.44	33.39	12.7	198.4	1646	13.28
10/23/2010 18:00	22347	2_60	2010	296	1800	68.31	51.43	24.47	2.182	11.67	196.7	1704	13.32
10/23/2010 19:00	22348	2_60	2010	296	1900	79.41	49.01	24.49	0.017	11.64	227.9	1818	13.35
10/23/2010 20:00	22349	2_60	2010	296	2000	79.07	49.07	24.52	0.02	9.73	195.8	1901	13.37
10/23/2010 21:00	22350	2_60	2010	296	2100	83.7	46.44	24.53	0.017	14.3	268.9	2004	13.39
10/23/2010 22:00	22351	2_60	2010	296	2200	89.7	43.88	24.53	0.017	3.959	110.6	2158	13.42
10/23/2010 23:00	22352	2_60	2010	296	2300	86.7	44.9	24.54	0.02	7.236	105.6	2249	13.44
10/24/2010 0:00	22353	2_60	2010	297	0	87.7	45.47	24.55	0.02	6.281	130.5	2314	13.44
10/24/2010 1:00	22354	2_60	2010	297	100	87.9	45.99	24.55	0.017	4.335	134	7	13.42
10/24/2010 2:00	22355	2_60	2010	297	200	88.2	45.53	24.53	0.012	3.652	152.9	129	13.42
10/24/2010 3:00	22356	2_60	2010	297	300	92.5	43.69	24.54	0.012	4.915	300.2	226	13.43
10/24/2010 4:00	22357	2_60	2010	297	400	94.1	42.99	24.53	0.015	1.843	300.5	300	13.44
10/24/2010 5:00	22358	2_60	2010	297	500	94	42.42	24.53	0.025	1.707	194.7	412	13.46
10/24/2010 6:00	22359	2_60	2010	297	600	94.2	42.17	24.54	0.041	1.365	153.5	533	13.46
10/24/2010 7:00	22360	2_60	2010	297	700	93.9	42.18	24.54	3.737	1.536	104.6	659	13.47
10/24/2010 8:00	22361	2_60	2010	297	800	90.4	44.51	24.56	89.4	3.004	79.64	712	13.47
10/24/2010 9:00	22362	2_60	2010	297	900	80.6	49.53	24.55	207.2	2.116	304.5	850	13.43
10/24/2010 10:00	22363	2_60	2010	297	1000	78.01	51.74	24.53	248	2.014	294.2	957	13.37
10/24/2010 11:00	22364	2_60	2010	297	1100	63.82	54.49	24.53	274.3	6.417	200.8	1056	13.31
10/24/2010 12:00	22365	2_60	2010	297	1200	57.85	55.71	24.51	411.7	7.031	222	1132	13.27
10/24/2010 13:00	22366	2_60	2010	297	1300	53.75	57.62	24.47	490.5	11.2	188.4	1248	13.22
10/24/2010 14:00	22367	2_60	2010	297	1400	53.71	57.67	24.46	343.2	11.84	205	1353	13.2
10/24/2010 15:00	22368	2_60	2010	297	1500	55.04	57.04	24.44	149.7	11.26	187.8	1459	13.21
10/24/2010 16:00	22369	2_60	2010	297	1600	54.72	57.04	24.43	158.1	13.45	179.5	1529	13.23
10/24/2010 17:00	22370	2_60	2010	297	1700	55.83	56.24	24.42	69.83	13.69	174.8	1634	13.24
10/24/2010 18:00	22371	2_60	2010	297	1800	56.18	55.36	24.42	4.685	13.96	180.7	1725	13.27
10/24/2010 19:00	22372	2_60	2010	297	1900	54.32	55.71	24.4	0.006	12.08	183.2	1825	13.28
10/24/2010 20:00	22373	2_60	2010	297	2000	55	55.69	24.39	0.01	11.98	171.6	1914	13.29
10/24/2010 21:00	22374	2_60	2010	297	2100	55.25	55.95	24.34	0.014	11.74	160.6	2040	13.29
10/24/2010 22:00	22375	2_60	2010	297	2200	54.95	56.32	24.31	0.013	16.11	181.7	2140	13.29
10/24/2010 23:00	22376	2_60	2010	297	2300	54.33	56.53	24.28	0.013	13.86	191	2259	13.29

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/25/2010 0:00	22377	2_60	2010	298	0	9.563225	167.3876	19.06714	20.57	129.5	77.5	150.5	13.4	13.37	-0.03057111
10/25/2010 1:00	22378	2_60	2010	298	100	11.24179	181.3715	16.27006	12.26	139.9	86.4	160.3	13.08	13.03	-0.04781624
10/25/2010 2:00	22379	2_60	2010	298	200	11.28971	179.7374	19.44585	24.44	150	98.3	173.2	12.6	12.52	-0.08067229
10/25/2010 3:00	22380	2_60	2010	298	300	11.64275	185.0497	21.58544	14.79	191.5	88.1	217.6	12.51	12.37	-0.1377188
10/25/2010 4:00	22381	2_60	2010	298	400	13.12479	185.1209	20.97192	41.58	174.7	133.8	203.4	12.04	11.94	-0.1040703
10/25/2010 5:00	22382	2_60	2010	298	500	9.8204	194.4028	28.25791	22.69	196.1	85.3	217.2	11.72	11.67	-0.05803153
10/25/2010 6:00	22383	2_60	2010	298	600	9.615685	205.8402	27.06616	30.15	179.7	93.4	194.4	11.64	11.56	-0.07921229
10/25/2010 7:00	22384	2_60	2010	298	700	8.456494	215.6114	33.20371	2.841	194.4	54.28	210.3	11.58	11.46	-0.1176411
10/25/2010 8:00	22385	2_60	2010	298	800	9.21345	240.0217	29.02976	19.51	147.7	54.44	158.2	9.92	9.92	0.005426426
10/25/2010 9:00	22386	2_60	2010	298	900	4.310975	310.7783	18.2996	29	34.18	24.61	38.69	6.839	6.777	-0.06146883
10/25/2010 10:00	22387	2_60	2010	298	1000	6.305801	248.8283	7.879895	23.11	40.53	64.83	55.11	6.35	6.376	0.025555
10/25/2010 11:00	22388	2_60	2010	298	1100	8.107635	273.2616	20.16817	35.38	53.39	65.62	66.03	6.937	6.847	-0.09005187
10/25/2010 12:00	22389	2_60	2010	298	1200	4.859797	338.9266	18.54388	29.26	43.71	16.55	50.86	6.07	5.287	-0.7824381
10/25/2010 13:00	22390	2_60	2010	298	1300	6.789665	311.6399	20.75195	42.85	70.22	39.79	78.29	8.27	7.206	-1.059973
10/25/2010 14:00	22391	2_60	2010	298	1400	9.741399	286.0846	10.90187	33.37	71.54	50.64	73.61	8.45	7.269	-1.180298
10/25/2010 15:00	22392	2_60	2010	298	1500	9.432181	289.9758	11.2046	47.46	68.59	53.27	74.05	8.56	7.468	-1.096125
10/25/2010 16:00	22393	2_60	2010	298	1600	8.730081	280.8577	9.303339	13.09	62.12	36.4	66.11	8.47	7.485	-0.9883463
10/25/2010 17:00	22394	2_60	2010	298	1700	6.862237	284.3146	7.694799	25.84	44.89	36.91	46.05	7.077	6.989	-0.08806081
10/25/2010 18:00	22395	2_60	2010	298	1800	7.784514	268.2675	5.918297	2.17	42.17	54.78	52.03	5.541	5.944	0.403014
10/25/2010 19:00	22396	2_60	2010	298	1900	6.044139	270.864	5.476544	-10.86	27.07	31.87	34.31	4.466	5.356	0.8896232
10/25/2010 20:00	22397	2_60	2010	298	2000	7.022139	264.7511	5.316712	3.098	32.64	57.67	35.11	4.439	5.292	0.8525576
10/25/2010 21:00	22398	2_60	2010	298	2100	5.418276	261.2411	6.277531	12.98	29.65	47.96	30.44	3.824	4.785	0.9612216
10/25/2010 22:00	22399	2_60	2010	298	2200	2.851959	169.2104	33.73309	11.43	33.05	25.5	41.31	2.94	4.18	1.239421
10/25/2010 23:00	22400	2_60	2010	298	2300	1.037192	316.4745	44.8673	6.811	17.9	4.131	15.21	2.303	3.753	1.450616
10/26/2010 0:00	22401	2_60	2010	299	0	1.732772	136.878	19.54543	-1.19	11.31	1.825	11.26	0.464	3.635	3.171124
10/26/2010 1:00	22402	2_60	2010	299	100	1.722958	152.0164	37.38839	8.37	25.34	16.57	32.61	1.206	3.007	1.801329
10/26/2010 2:00	22403	2_60	2010	299	200	2.923577	215.3067	49.41595	11.82	27.77	32.51	40.8	0.609	2.237	1.627638
10/26/2010 3:00	22404	2_60	2010	299	300	1.97031	258.132	33.86372	15.73	28.66	25.18	34.67	0.088	1.974	1.885752
10/26/2010 4:00	22405	2_60	2010	299	400	1.653409	221.6526	56.3597	4.195	9.5	7.563	11.62	-1.744	0.949	2.692877
10/26/2010 5:00	22406	2_60	2010	299	500	0.5769646	237.3599	26.61079	0.329	4.691	0.476	4.338	-2.078	-0.061	2.016763
10/26/2010 6:00	22407	2_60	2010	299	600	0.7721774	262.312	14.77542	-0.307	0.529	-0.195	0.812	-1.968	0.23	2.198013
10/26/2010 7:00	22408	2_60	2010	299	700	1.330539	217.3772	31.28106	3.563	10.68	7.071	14.61	-2.381	-0.131	2.250039
10/26/2010 8:00	22409	2_60	2010	299	800	1.17919	170.2317	24.42505	2.12	8.58	1.843	9.09	-1.529	-0.283	1.245867
10/26/2010 9:00	22410	2_60	2010	299	900	1.160984	29.34969	47.56536	8.13	31.97	5.191	31.54	2.245	1.625	-0.6200032
10/26/2010 10:00	22411	2_60	2010	299	1000	1.327668	27.48343	35.73453	11.99	41.94	7.459	43.2	4.653	3.851	-0.8017235
10/26/2010 11:00	22412	2_60	2010	299	1100	3.913817	269.2607	52.58643	6.735	60.56	17.28	68.85	6.568	5.531	-1.037724
10/26/2010 12:00	22413	2_60	2010	299	1200	3.156924	344.7953	20.40066	17.99	47.76	6.663	52.87	6.711	5.713	-0.9981896
10/26/2010 13:00	22414	2_60	2010	299	1300	2.879248	331.0812	40.67698	22.41	63.24	19.59	70.79	7.717	6.594	-1.12267
10/26/2010 14:00	22415	2_60	2010	299	1400	5.626973	256.8917	37.16053	28.73	79.74	56.43	92.2	8.85	7.434	-1.419906
10/26/2010 15:00	22416	2_60	2010	299	1500	8.186466	246.5375	12.85773	16.87	75.51	70.57	89.5	8.39	7.209	-1.183885
10/26/2010 16:00	22417	2_60	2010	299	1600	6.334107	266.2741	16.6354	11.62	65.3	36.64	74.91	8.41	7.418	-0.9952554
10/26/2010 17:00	22418	2_60	2010	299	1700	6.017082	276.4681	13.82894	17.65	50.15	33.59	54.33	6.991	6.988	-0.003003991
10/26/2010 18:00	22419	2_60	2010	299	1800	5.254807	253.267	7.000893	11.39	31.94	41.27	36.86	5.419	6.249	0.8302813
10/26/2010 19:00	22420	2_60	2010	299	1900	4.172847	236.4058	6.970119	13.87	21.82	42.88	25.93	4.672	6.112	1.439974
10/26/2010 20:00	22421	2_60	2010	299	2000	3.265356	234.6157	14.83348	24.34	24.29	48.88	27.88	4.203	5.711	1.507656
10/26/2010 21:00	22422	2_60	2010	299	2100	2.127754	247.2874	33.8626	21.09	27.66	35.73	39.43	2.924	4.49	1.565576
10/26/2010 22:00	22423	2_60	2010	299	2200	1.567428	243.3831	38.44915	2.876	17.94	4.074	19.39	1.272	3.669	2.397284
10/26/2010 23:00	22424	2_60	2010	299	2300	0.9590318	168.3419	47.25247	1.301	13.65	1.895	14.32	0.222	3.447	3.224431
10/27/2010 0:00	22425	2_60	2010	300	0	0.8394226	233.2517	24.22882	0.705	6.12	0.942	6.211	-0.402	3.574	3.975852
10/27/2010 1:00	22426	2_60	2010	300	100	0.4926566	264.8262	43.94205	0.315	9.51	0.196	10.01	-0.266	2.297	2.562573
10/27/2010 2:00	22427	2_60	2010	300	200	1.042492	274.4515	42.76615	1.176	5.688	2.136	7.173	-1.623	1.373	2.995538
10/27/2010 3:00	22428	2_60	2010	300	300	0.5422364	250.9365	40.10019	-0.038	4.681	0.18	4.252	-1.526	1.436	2.961953
10/27/2010 4:00	22429	2_60	2010	300	400	0.9506997	189.5191	38.30424	-0.07	4.504	1.941	7.487	-1.454	1.173	2.626562
10/27/2010 5:00	22430	2_60	2010	300	500	1.837905	301.4075	28.31648	9.03	22.68	13.15	29.99	-1.77	1.325	3.09459
10/27/2010 6:00	22431	2_60	2010	300	600	1.765199	311.5588	50.23468	8.89	27.56	8.55	29.28	-2.719	0.11	2.829351
10/27/2010 7:00	22432	2_60	2010	300	700	1.099374	103.4431	47.36979	0.787	8.38	0.571	7.606	-1.717	0.385	2.102421
10/27/2010 8:00	22433	2_60	2010	300	800	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 9:00	22434	2_60	2010	300	900	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 10:00	22435	2_60	2010	300	1000	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 11:00	22436	2_60	2010	300	1100	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 12:00	22437	2_60	2010	300	1200	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 13:00	22438	2_60	2010	300	1300	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 14:00	22439	2_60	2010	300	1400	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 15:00	22440	2_60	2010	300	1500	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 16:00	22441	2_60	2010	300	1600	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ	AZ
10/27/2010 17:00	22442	2_60	2010	300	1700	2.027149	206.9371	8.221522	1.768	6.629	9.73	12.88	5.603	7.24	1.637811
10/27/2010 18:00	22443	2_60	2010	300	1800	1.916584	201.6331	5.80915	0.71	3.319	8.15	11.17	3.018	6.572	3.554048
10/27/2010 19:00	22444	2_60	2010	300	1900	2.266238	147.9608	14.48175	0.416	9.04	4.683	12.31	2.289	6.059	3.769478
10/27/2010 20:00	22445	2_60	2010	300	2000	2.466953	142.1696	14.732	1.907	14.22	8.07	17.37	2.863	5.286	2.423163
10/27/2010 21:00	22446	2_60	2010	300	2100	1.371559	190.0841	26.03258	0.88	5.502	3.499	8.39	0.984	4.365	3.380869
10/27/2010 22:00	22447	2_60	2010	300	2200	1.253683	187.5514	36.79973	1.955	8.75	5.459	11.78	0.141	3.926	3.785064
10/27/2010 23:00	22448	2_60	2010	300	2300	1.952535	157.6508	16.24602	3.642	8.92	8.78	13.75	-0.108	3.72	3.827416

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/25/2010 0:00	22377	2_60	2010	298	0	56.58	56.48	24.24	0.015	21.09	181	2340	13.29
10/25/2010 1:00	22378	2_60	2010	298	100	59.76	55.93	24.24	0.016	21.71	183.7	40	13.3
10/25/2010 2:00	22379	2_60	2010	298	200	62.64	55.03	24.2	0.018	23.62	169.9	158	13.31
10/25/2010 3:00	22380	2_60	2010	298	300	62.88	54.84	24.16	0.019	26.01	186.7	232	13.3
10/25/2010 4:00	22381	2_60	2010	298	400	65.04	54.02	24.13	0.019	25.6	194.8	322	13.31
10/25/2010 5:00	22382	2_60	2010	298	500	65.99	53.5	24.11	0.022	22.9	179.9	419	13.32
10/25/2010 6:00	22383	2_60	2010	298	600	65.13	53.31	24.1	0.023	22.22	197.4	528	13.33
10/25/2010 7:00	22384	2_60	2010	298	700	64.16	53.21	24.1	2.121	25.09	178.6	657	13.33
10/25/2010 8:00	22385	2_60	2010	298	800	73.66	50.43	24.17	17.12	21.23	222.8	721	13.35
10/25/2010 9:00	22386	2_60	2010	298	900	87.2	44.62	24.2	17.45	11.67	305.4	803	13.39
10/25/2010 10:00	22387	2_60	2010	298	1000	80.1	43.76	24.22	44.42	12.42	237.2	957	13.42
10/25/2010 11:00	22388	2_60	2010	298	1100	65.05	44.85	24.25	142.3	12.42	328.2	1055	13.43
10/25/2010 12:00	22389	2_60	2010	298	1200	71.23	43.5	24.26	345.9	9.9	354.3	1108	13.42
10/25/2010 13:00	22390	2_60	2010	298	1300	44.92	47.46	24.26	435.6	17	303.1	1246	13.38
10/25/2010 14:00	22391	2_60	2010	298	1400	33.13	47.62	24.25	398.9	16.28	316.6	1302	13.35
10/25/2010 15:00	22392	2_60	2010	298	1500	31.77	47.89	24.27	326.1	14.85	307.6	1424	13.34
10/25/2010 16:00	22393	2_60	2010	298	1600	30.93	47.89	24.29	259	14.1	275.4	1527	13.34
10/25/2010 17:00	22394	2_60	2010	298	1700	33.38	45.61	24.3	82.3	11.23	293.1	1620	13.32
10/25/2010 18:00	22395	2_60	2010	298	1800	39.41	42.4	24.33	3.203	10.65	263.2	1735	13.41
10/25/2010 19:00	22396	2_60	2010	298	1900	46.7	40.47	24.35	0.005	8.84	275.6	1828	13.47
10/25/2010 20:00	22397	2_60	2010	298	2000	42.51	40.4	24.36	0.006	9.59	259.1	1942	13.51
10/25/2010 21:00	22398	2_60	2010	298	2100	46.81	39.35	24.37	0.009	8.7	270.1	2002	13.52
10/25/2010 22:00	22399	2_60	2010	298	2200	51.79	37.93	24.38	0.031	8.02	253.1	2103	13.55
10/25/2010 23:00	22400	2_60	2010	298	2300	54.07	36.51	24.39	0.044	2.458	327.4	2231	13.59
10/26/2010 0:00	22401	2_60	2010	299	0	65.18	33.4	24.37	0.04	5.325	123.3	2352	13.62
10/26/2010 1:00	22402	2_60	2010	299	100	59.18	34.6	24.38	0.037	3.959	187.8	43	13.64
10/26/2010 2:00	22403	2_60	2010	299	200	64.68	33.46	24.37	0.042	7.646	181.1	114	13.65
10/26/2010 3:00	22404	2_60	2010	299	300	66.4	32.61	24.36	0.024	4.13	212.7	233	13.66
10/26/2010 4:00	22405	2_60	2010	299	400	77.05	29.47	24.37	0.007	4.096	2.448	342	13.68
10/26/2010 5:00	22406	2_60	2010	299	500	80.5	28.59	24.37	0.006	1.638	220	400	13.71
10/26/2010 6:00	22407	2_60	2010	299	600	78.21	29.01	24.38	0.009	1.843	213.3	559	13.72
10/26/2010 7:00	22408	2_60	2010	299	700	81.4	28.01	24.39	3.458	2.56	232.2	608	13.73
10/26/2010 8:00	22409	2_60	2010	299	800	80.9	30.38	24.39	84	2.833	56.59	758	13.72
10/26/2010 9:00	22410	2_60	2010	299	900	57.66	37.94	24.4	264.7	2.526	0.162	829	13.66
10/26/2010 10:00	22411	2_60	2010	299	1000	46.38	41.94	24.39	390.8	3.14	352.3	943	13.57
10/26/2010 11:00	22412	2_60	2010	299	1100	36.78	44.74	24.38	461.9	8.84	248.1	1057	13.47
10/26/2010 12:00	22413	2_60	2010	299	1200	36.47	44.89	24.36	454	7.987	278.4	1100	13.4
10/26/2010 13:00	22414	2_60	2010	299	1300	32.76	47.16	24.35	622.5	10.48	201.1	1254	13.34
10/26/2010 14:00	22415	2_60	2010	299	1400	29.99	48.57	24.34	589.2	13.31	250.5	1338	13.28
10/26/2010 15:00	22416	2_60	2010	299	1500	28.25	47.37	24.35	364.6	13.11	232.1	1404	13.27
10/26/2010 16:00	22417	2_60	2010	299	1600	25.6	47.87	24.35	274.3	10.75	251.6	1537	13.3
10/26/2010 17:00	22418	2_60	2010	299	1700	25.61	45.36	24.35	77.74	10.27	258.9	1613	13.32
10/26/2010 18:00	22419	2_60	2010	299	1800	29.17	42.25	24.37	3.181	7.817	257.2	1717	13.4
10/26/2010 19:00	22420	2_60	2010	299	1900	35.84	40.74	24.4	0.001	6.144	244.1	1830	13.46
10/26/2010 20:00	22421	2_60	2010	299	2000	38.46	40.12	24.41	0.003	6.724	250.9	1918	13.48
10/26/2010 21:00	22422	2_60	2010	299	2100	43.93	37.51	24.42	0.01	5.052	221.6	2055	13.53
10/26/2010 22:00	22423	2_60	2010	299	2200	52.4	34.71	24.43	0.024	3.345	236.5	2100	13.59
10/26/2010 23:00	22424	2_60	2010	299	2300	57.6	32.95	24.45	0.032	2.253	80.3	2209	13.62
10/27/2010 0:00	22425	2_60	2010	300	0	59.96	31.67	24.46	0.031	1.638	198.7	2301	13.65
10/27/2010 1:00	22426	2_60	2010	300	100	56.76	32.23	24.48	0.014	2.321	302	12	13.68
10/27/2010 2:00	22427	2_60	2010	300	200	65.91	29.87	24.5	0.009	2.458	244.3	113	13.69
10/27/2010 3:00	22428	2_60	2010	300	300	66.42	29.67	24.51	0.004	1.638	198.2	213	13.71
10/27/2010 4:00	22429	2_60	2010	300	400	68.23	29.85	24.54	0.006	2.56	200.7	359	13.71
10/27/2010 5:00	22430	2_60	2010	300	500	68.51	29.32	24.57	0.011	4.471	248.8	415	13.71
10/27/2010 6:00	22431	2_60	2010	300	600	77.36	27.54	24.62	0.005	4.301	288.4	506	13.72
10/27/2010 7:00	22432	2_60	2010	300	700	71.59	29.38	24.65	3.229	4.13	33.85	659	13.72
10/27/2010 8:00	22433	2_60	2010	300	800	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.68
10/27/2010 9:00	22434	2_60	2010	300	900	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.54
10/27/2010 10:00	22435	2_60	2010	300	1000	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.51
10/27/2010 11:00	22436	2_60	2010	300	1100	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.41
10/27/2010 12:00	22437	2_60	2010	300	1200	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.35
10/27/2010 13:00	22438	2_60	2010	300	1300	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.33
10/27/2010 14:00	22439	2_60	2010	300	1400	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.32
10/27/2010 15:00	22440	2_60	2010	300	1500	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.27
10/27/2010 16:00	22441	2_60	2010	300	1600	AZ	AZ	AZ	AZ	AZ	AZ	AZ	13.25
10/27/2010 17:00	22442	2_60	2010	300	1700	35.29	43	24.79	92.1	3.379	198.4	1611	13.29
10/27/2010 18:00	22443	2_60	2010	300	1800	45.31	37.76	24.81	3.295	2.526	192.7	1731	13.41
10/27/2010 19:00	22444	2_60	2010	300	1900	47.37	36.16	24.83	0	4.574	103.1	1849	13.51
10/27/2010 20:00	22445	2_60	2010	300	2000	34.18	37.52	24.84	0	4.915	125.2	1916	13.56
10/27/2010 21:00	22446	2_60	2010	300	2100	42.02	34.38	24.86	0	2.423	149	2003	13.6
10/27/2010 22:00	22447	2_60	2010	300	2200	46.96	32.7	24.89	0	3.106	167.3	2113	13.64
10/27/2010 23:00	22448	2_60	2010	300	2300	49.43	32.21	24.91	0	4.267	129.7	2259	13.66

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
10/28/2010 0:00	22449	2_60	2010	301	0	4.447395	130.9166	3.667686	2.239	9.31	14.3	14.17	-0.059	3.428	3.48737
10/28/2010 1:00	22450	2_60	2010	301	100	2.131648	148.7725	49.37438	0.811	25.99	7.391	28.45	-1.152	1.979	3.130611
10/28/2010 2:00	22451	2_60	2010	301	200	1.775239	308.9406	54.35815	5.626	21.11	2.22	19.06	-2.415	-0.379	2.035876
10/28/2010 3:00	22452	2_60	2010	301	300	1.048262	270.952	25.1379	1.91	10.13	0.558	7.596	-2.952	-2.275	0.6771641
10/28/2010 4:00	22453	2_60	2010	301	400	0.6971664	154.1872	22.10998	0.022	2.192	0.083	3.3	-3.712	-0.654	3.057633
10/28/2010 5:00	22454	2_60	2010	301	500	0.59161	231.8453	11.77489	-0.29	0.029	-0.269	0.091	-3.658	-0.206	3.452573
10/28/2010 6:00	22455	2_60	2010	301	600	0.8950871	208.3171	24.33203	0.937	4.899	0.681	4.343	-2.659	-0.203	2.45543
10/28/2010 7:00	22456	2_60	2010	301	700	0.8428642	297.7016	21.43055	-0.348	2.462	-0.23	1.659	-2.821	-1.217	1.603864
10/28/2010 8:00	22457	2_60	2010	301	800	0.6552169	202.1907	52.53874	0.81	5.578	0.239	3.107	-2.072	-1.518	0.553835
10/28/2010 9:00	22458	2_60	2010	301	900	1.492021	306.1825	15.65074	9.36	22.07	6.304	19.3	-0.096	-0.729	-0.6322829
10/28/2010 10:00	22459	2_60	2010	301	1000	1.064189	301.7288	32.48121	14.48	42.28	11.57	39.98	2.018	1.277	-0.7401507
10/28/2010 11:00	22460	2_60	2010	301	1100	0.7237092	352.1111	49.22175	2.376	47.9	0.399	46.29	4.427	3.763	-0.6644936
10/28/2010 12:00	22461	2_60	2010	301	1200	1.036425	318.9308	36.06253	5.39	46.08	2.927	44.03	7.02	6.195	-0.8249002
10/28/2010 13:00	22462	2_60	2010	301	1300	0.9406549	355.9137	62.8346	-5.856	51.83	-5.866	50.39	9.45	8.6	-0.8545998
10/28/2010 14:00	22463	2_60	2010	301	1400	0.89941	68.47282	31.11349	9.3	48.71	9.6	49.68	11.54	10.61	-0.9280075
10/28/2010 15:00	22464	2_60	2010	301	1500	0.7124192	335.8669	47.23367	-14.24	46.12	-13.32	45.56	12.72	11.94	-0.7812817
10/28/2010 16:00	22465	2_60	2010	301	1600	1.752422	134.8555	16.30519	5.746	28.44	9.83	30.29	13.68	12.75	-0.9306319
10/28/2010 17:00	22466	2_60	2010	301	1700	3.028628	145.9299	7.127626	5.253	13.97	12.84	16.34	10.37	12.22	1.84786
10/28/2010 18:00	22467	2_60	2010	301	1800	3.689822	156.736	4.682398	2.522	5.877	16.02	10.46	8.06	11.62	3.562254
10/28/2010 19:00	22468	2_60	2010	301	1900	2.692881	162.7667	7.941528	9.3	13.57	19.29	18.85	7.784	10.88	3.093045
10/28/2010 20:00	22469	2_60	2010	301	2000	1.57514	226.8649	18.35007	2.645	13.23	7.049	17.11	8.12	9.92	1.800521
10/28/2010 21:00	22470	2_60	2010	301	2100	0.8832821	195.3208	35.93029	0.778	7.281	1.45	6.663	5.297	9.44	4.143702
10/28/2010 22:00	22471	2_60	2010	301	2200	0.5087874	236.6525	23.74124	-0.439	6.161	-0.495	4.238	4.386	7.985	3.598553
10/28/2010 23:00	22472	2_60	2010	301	2300	0.5445995	205.5606	15.91496	0.177	3.391	0	2.17	3.791	6.961	3.169374
10/29/2010 0:00	22473	2_60	2010	302	0	0.6694667	174.3983	44.04885	0.059	2.971	-0.119	1.551	2.543	5.634	3.091734
10/29/2010 1:00	22474	2_60	2010	302	100	0.6478212	237.8417	35.49303	-0.494	2.048	-0.241	0.508	2.446	5.315	2.869039
10/29/2010 2:00	22475	2_60	2010	302	200	0.7564209	116.6655	15.50067	-0.019	1.743	0.001	1.406	1.867	5.283	3.415429
10/29/2010 3:00	22476	2_60	2010	302	300	1.267137	277.6229	17.9648	2.263	10.4	1.154	6.295	1.763	4.05	2.286291
10/29/2010 4:00	22477	2_60	2010	302	400	0.8147602	247.8893	30.09019	0.536	4.35	0.681	3.544	1.097	2.984	1.887454
10/29/2010 5:00	22478	2_60	2010	302	500	0.5468724	281.7432	28.62247	0.277	3.726	0.034	1.881	0.559	2.796	2.23653
10/29/2010 6:00	22479	2_60	2010	302	600	0.3277361	172.8003	47.19376	-0.4	1.346	-0.223	0.134	0.251	3.085	2.833265
10/29/2010 7:00	22480	2_60	2010	302	700	0.788474	255.5847	31.607	-0.651	3.569	-0.229	0.739	0.367	2.51	2.143197
10/29/2010 8:00	22481	2_60	2010	302	800	0.3135437	195.1847	16.97465	0.091	2.635	-0.269	0.139	1.902	2.699	0.797453
10/29/2010 9:00	22482	2_60	2010	302	900	1.018481	307.7992	28.14057	3.807	26.14	1.931	23.09	4.839	4.285	-0.554114
10/29/2010 10:00	22483	2_60	2010	302	1000	0.9797652	305.8823	29.68361	11.06	38.49	8.91	34.8	6.756	6.026	-0.7291908
10/29/2010 11:00	22484	2_60	2010	302	1100	1.424889	303.6225	24.23417	3.513	40.56	1.284	37.41	9.18	8.26	-0.9174517
10/29/2010 12:00	22485	2_60	2010	302	1200	1.483144	311.0237	22.92624	7.313	36.46	4.668	33.64	10.72	9.98	-0.7338081
10/29/2010 13:00	22486	2_60	2010	302	1300	0.8227803	318.7557	30.11951	8.37	41.77	6.548	38.63	12.92	12.17	-0.7428106
10/29/2010 14:00	22487	2_60	2010	302	1400	1.022916	325.8219	45.28777	5.417	47.51	2.939	44.58	15.65	14.98	-0.6734259
10/29/2010 15:00	22488	2_60	2010	302	1500	2.369217	187.6418	45.70749	-5.819	59.45	-0.777	62.29	18.46	17.87	-0.5855908
10/29/2010 16:00	22489	2_60	2010	302	1600	2.550035	137.4951	62.57025	-2.386	69.65	3.637	72.04	19.55	18.96	-0.592787
10/29/2010 17:00	22490	2_60	2010	302	1700	2.290226	122.1834	41.66967	0.983	51.82	5.037	56.33	18.14	18.56	0.4248164
10/29/2010 18:00	22491	2_60	2010	302	1800	1.163799	197.4543	28.98171	-0.281	9.31	1.654	7.143	13	16.98	3.985234
10/29/2010 19:00	22492	2_60	2010	302	1900	1.773613	213.4953	16.28782	4.38	11.11	12.02	15.49	11.78	16.03	4.243851
10/29/2010 20:00	22493	2_60	2010	302	2000	1.14679	226.4658	19.39366	1.398	7.268	2.196	7.756	11.83	15.16	3.329919
10/29/2010 21:00	22494	2_60	2010	302	2100	0.7533466	235.4772	30.92842	0.528	3.725	-0.018	1.682	9.95	14.55	4.600593
10/29/2010 22:00	22495	2_60	2010	302	2200	0.6907967	249.105	33.58315	0.116	2.144	-0.135	1.249	9.78	13.87	4.086379
10/29/2010 23:00	22496	2_60	2010	302	2300	0.2648464	184.28	6.384732	-0.166	0.911	-0.24	0.15	9.34	12.7	3.362553
10/30/2010 0:00	22497	2_60	2010	303	0	1.730489	270.8854	22.06875	9.02	9.54	1.724	5.036	7.501	11.13	3.627608
10/30/2010 1:00	22498	2_60	2010	303	100	1.423845	266.0542	15.32311	-0.17	8.17	0.817	3.98	6.215	9.25	3.038249
10/30/2010 2:00	22499	2_60	2010	303	200	0.8205073	243.7197	18.73458	-0.024	3.09	0.018	2.125	6.588	9.7	3.114905
10/30/2010 3:00	22500	2_60	2010	303	300	0.3194019	252.2122	28.35707	-0.43	1.93	-0.302	0.153	5.806	9.78	3.970192
10/30/2010 4:00	22501	2_60	2010	303	400	0.5224637	202.0085	30.57537	-0.088	1.594	-0.273	0.16	5.298	9.19	3.89325
10/30/2010 5:00	22502	2_60	2010	303	500	1.817389	294.4399	28.60377	7.203	11.39	3.155	8.71	3.464	6.326	2.861969
10/30/2010 6:00	22503	2_60	2010	303	600	1.168921	79.70579	32.11191	0.069	5.135	0.058	2.148	2.798	5.957	3.159025
10/30/2010 7:00	22504	2_60	2010	303	700	1.229602	230.179	30.47201	1.605	8.75	1.059	5.796	2.344	5.223	2.878319
10/30/2010 8:00	22505	2_60	2010	303	800	0.4980624	88.48997	34.65766	-0.202	0.336	-0.161	0.161	4.965	6.437	1.471751
10/30/2010 9:00	22506	2_60	2010	303	900	1.849481	302.9073	17.39846	7.567	16.74	5.12	13.57	6.95	6.642	-0.3079703
10/30/2010 10:00	22507	2_60	2010	303	1000	0.9122934	315.812	30.62895	10.04	32.94	6.224	27.2	9.03	8.37	-0.6612145
10/30/2010 11:00	22508	2_60	2010	303	1100	1.672669	313.9069	31.54495	11.48	43.02	8.64	40.93	12.18	11.32	-0.8592691
10/30/2010 12:00	22509	2_60	2010	303	1200	2.229498	326.945	64.6524	5.773	108.1	7.506	111.1	17.6	16.8	-0.8034025
10/30/2010 13:00	22510	2_60	2010	303	1300	5.927429	175.5664	52.45725	1.218	138.1	25.54	149.9	20.74	19.9	-0.8414671
10/30/2010 14:00	22511	2_60	2010	303	1400	4.896799	210.6466	60.17017	-8.21	152.1	13.44	158.2	21.13	20.35	-0.7755446
10/30/2010 15:00	22512	2_60	2010	303	1500	4.095902	225.0043	60.96214	-14.48	152.9	-4.02	160	20.88	20.19	-0.6918194
10/30/2010 16:00	22513	2_60	2010	303	1600	5.064176	182.5414	71.05009	4.687	166	18.99	175	20.42	20.05	-0.3745253
10/30/2010 17:00	22514	2_60	2010	303	1700	4.350171	219.7213	80.64004	1.747	157.2	12.16	163.6	19.36	19.26	-0.1040165
10/30/2010 18:00	22515	2_60	2010	303	1800	4.272674	262.9779	39.98831	-4.352	92.3	8.12	95.6	18.66	18.73	0.06708904
10/30/2010 19:00	22516	2_60	2010	303	1900	9.298119	236.9691	42.40162	1.938	151.5	48.22	168.1	16.62	16.54	-0.07478327
10/30/2010 20:00	22517	2_60	2010	303	2000	7.286992	274.0508	15.42261	17.34	70.92	43.14	85.3	12.14	12.22	0.07158334
10/30/2010 21:00	22518	2_60	2010	303	2100	4.26813	281.0885	13.54237	13.28	40.48	20.12	40.8	10.43	11.09	0.6520113
10/30/2010 22:00	22519	2_60	2010	303	2200	4.062311	258.7668	11.04444	-1.585	25.69	16.39	28.29	9.52	10.94	1.414169
10/30/2010 23:00	22520	2_60	2010	303	2300	3.696178	211.2887	7.682016	12.17	16.91	43.08	23.14	7.864	10.81	2.941128

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/28/2010 0:00	22449	2_60	2010	301	0	49.51	32.38	24.91	0	6.212	125.7	2325	13.67
10/28/2010 1:00	22450	2_60	2010	301	100	54.64	30.36	24.91	0	5.325	129.1	42	13.68
10/28/2010 2:00	22451	2_60	2010	301	200	64.8	28.16	24.91	0	3.686	297.7	145	13.7
10/28/2010 3:00	22452	2_60	2010	301	300	68.49	26.96	24.91	0	3.004	296.9	200	13.73
10/28/2010 4:00	22453	2_60	2010	301	400	70.83	25.93	24.91	0	1.604	165.9	329	13.75
10/28/2010 5:00	22454	2_60	2010	301	500	70.08	25.96	24.93	0	1.399	209.6	458	13.76
10/28/2010 6:00	22455	2_60	2010	301	600	63.76	27.73	24.93	0	2.15	266.9	557	13.77
10/28/2010 7:00	22456	2_60	2010	301	700	64.93	27.38	24.95	4.101	2.048	253.3	600	13.77
10/28/2010 8:00	22457	2_60	2010	301	800	66.2	29.92	24.97	134.9	1.331	308.3	756	13.76
10/28/2010 9:00	22458	2_60	2010	301	900	57.57	33.73	24.97	322.7	2.526	311.5	825	13.69
10/28/2010 10:00	22459	2_60	2010	301	1000	44.9	37.83	24.96	488.8	3.004	296.7	937	13.6
10/28/2010 11:00	22460	2_60	2010	301	1100	37.12	42.07	24.94	596.6	3.55	341.2	1058	13.5
10/28/2010 12:00	22461	2_60	2010	301	1200	29.85	46.57	24.91	635	3.072	347.6	1104	13.4
10/28/2010 13:00	22462	2_60	2010	301	1300	23.76	50.83	24.89	648.4	2.765	298.9	1214	13.31
10/28/2010 14:00	22463	2_60	2010	301	1400	21.29	54.56	24.86	580	2.355	123.8	1317	13.24
10/28/2010 15:00	22464	2_60	2010	301	1500	19.69	57.14	24.84	458.8	3.209	8.15	1415	13.19
10/28/2010 16:00	22465	2_60	2010	301	1600	20.92	57.52	24.83	276.1	3.14	123	1519	13.17
10/28/2010 17:00	22466	2_60	2010	301	1700	31.4	51.36	24.82	87.2	3.925	149.8	1643	13.2
10/28/2010 18:00	22467	2_60	2010	301	1800	34.17	46.77	24.83	4.887	4.335	164.3	1739	13.3
10/28/2010 19:00	22468	2_60	2010	301	1900	33.81	46.45	24.84	0	4.198	178.7	1859	13.38
10/28/2010 20:00	22469	2_60	2010	301	2000	33.69	47.03	24.84	0	4.369	178	1900	13.42
10/28/2010 21:00	22470	2_60	2010	301	2100	45.73	42.19	24.84	0	2.287	225	2005	13.46
10/28/2010 22:00	22471	2_60	2010	301	2200	48.99	40.46	24.84	0	2.014	292.6	2103	13.5
10/28/2010 23:00	22472	2_60	2010	301	2300	49.58	39.55	24.84	0	1.468	249.2	2204	13.53
10/29/2010 0:00	22473	2_60	2010	302	0	56.33	37.11	24.83	0	1.741	333	2337	13.56
10/29/2010 1:00	22474	2_60	2010	302	100	56.89	37	24.82	0	1.775	270.3	28	13.58
10/29/2010 2:00	22475	2_60	2010	302	200	61.05	35.87	24.82	0	2.219	94.7	128	13.59
10/29/2010 3:00	22476	2_60	2010	302	300	62.21	35.62	24.81	0	3.721	297.1	246	13.6
10/29/2010 4:00	22477	2_60	2010	302	400	66.37	34.26	24.8	0	2.526	267.7	300	13.61
10/29/2010 5:00	22478	2_60	2010	302	500	68.43	33.52	24.81	0	2.526	295.7	401	13.62
10/29/2010 6:00	22479	2_60	2010	302	600	69.47	32.94	24.8	0	0.887	308.3	502	13.64
10/29/2010 7:00	22480	2_60	2010	302	700	68.21	33.28	24.81	5.086	1.775	290.3	613	13.64
10/29/2010 8:00	22481	2_60	2010	302	800	62.97	36.96	24.82	130.8	1.229	240.9	754	13.64
10/29/2010 9:00	22482	2_60	2010	302	900	48.71	43.04	24.81	309.2	2.355	307.5	854	13.57
10/29/2010 10:00	22483	2_60	2010	302	1000	45.03	46.27	24.8	478.8	3.004	311.6	959	13.48
10/29/2010 11:00	22484	2_60	2010	302	1100	39.59	50.42	24.77	600.9	3.516	317.2	1038	13.38
10/29/2010 12:00	22485	2_60	2010	302	1200	36.49	52.72	24.75	451.2	2.867	311.6	1135	13.31
10/29/2010 13:00	22486	2_60	2010	302	1300	28.66	57.03	24.71	477.1	2.935	305.3	1214	13.25
10/29/2010 14:00	22487	2_60	2010	302	1400	24.64	62.29	24.68	608.8	3.413	349.7	1352	13.18
10/29/2010 15:00	22488	2_60	2010	302	1500	24.06	66	24.67	333.1	8.16	168.1	1452	13.13
10/29/2010 16:00	22489	2_60	2010	302	1600	23.18	67.98	24.66	267.8	6.076	129.9	1538	13.12
10/29/2010 17:00	22490	2_60	2010	302	1700	26.42	65.27	24.65	73.15	6.588	138.1	1625	13.13
10/29/2010 18:00	22491	2_60	2010	302	1800	40.92	55.97	24.65	4.544	3.038	198.8	1759	13.19
10/29/2010 19:00	22492	2_60	2010	302	1900	43.91	53.62	24.64	0	3.174	198	1814	13.26
10/29/2010 20:00	22493	2_60	2010	302	2000	42.81	54	24.64	0	2.185	244.6	1943	13.31
10/29/2010 21:00	22494	2_60	2010	302	2100	50.18	50.61	24.64	0	1.707	222.4	2028	13.34
10/29/2010 22:00	22495	2_60	2010	302	2200	50.25	50.11	24.64	0	1.468	219.8	2105	13.37
10/29/2010 23:00	22496	2_60	2010	302	2300	51.14	49.18	24.62	0	1.57	143.3	2259	13.39
10/30/2010 0:00	22497	2_60	2010	303	0	57.95	45.94	24.62	0	3.379	297	2353	13.42
10/30/2010 1:00	22498	2_60	2010	303	100	64.19	43.57	24.62	0	2.799	286.8	5	13.45
10/30/2010 2:00	22499	2_60	2010	303	200	61.79	44.3	24.61	0	2.082	239.5	102	13.47
10/30/2010 3:00	22500	2_60	2010	303	300	64.17	43.15	24.6	0	1.126	263.1	259	13.49
10/30/2010 4:00	22501	2_60	2010	303	400	66.46	42.07	24.59	0	1.434	119.6	340	13.5
10/30/2010 5:00	22502	2_60	2010	303	500	74.11	38.81	24.61	0	4.335	305.4	432	13.52
10/30/2010 6:00	22503	2_60	2010	303	600	75.82	37.66	24.59	0	2.048	315.5	555	13.55
10/30/2010 7:00	22504	2_60	2010	303	700	77.78	36.73	24.61	7.131	2.901	293.1	619	13.58
10/30/2010 8:00	22505	2_60	2010	303	800	69.59	42.31	24.59	128.3	1.809	101.7	739	13.56
10/30/2010 9:00	22506	2_60	2010	303	900	62.77	45.97	24.58	259.4	3.925	306.1	829	13.5
10/30/2010 10:00	22507	2_60	2010	303	1000	51.39	50.56	24.55	471.6	2.867	294.8	957	13.43
10/30/2010 11:00	22508	2_60	2010	303	1100	41.41	55.42	24.53	589.1	3.516	326.4	1008	13.33
10/30/2010 12:00	22509	2_60	2010	303	1200	26.2	64.56	24.46	655.8	13.24	160.3	1158	13.23
10/30/2010 13:00	22510	2_60	2010	303	1300	14.69	69.91	24.43	654.9	21.13	170.9	1245	13.14
10/30/2010 14:00	22511	2_60	2010	303	1400	11.27	70.77	24.4	616.3	17.78	224.3	1326	13.1
10/30/2010 15:00	22512	2_60	2010	303	1500	13.03	70.29	24.38	464.2	16.01	276.4	1425	13.07
10/30/2010 16:00	22513	2_60	2010	303	1600	13.8	69.31	24.38	207.8	16.79	243.3	1533	13.07
10/30/2010 17:00	22514	2_60	2010	303	1700	14.71	67.2	24.36	34.59	17.75	104.7	1602	13.11
10/30/2010 18:00	22515	2_60	2010	303	1800	17	65.98	24.38	1.323	15.33	266.1	1742	13.14
10/30/2010 19:00	22516	2_60	2010	303	1900	24.23	62.33	24.45	0.001	24.1	227.2	1840	13.17
10/30/2010 20:00	22517	2_60	2010	303	2000	48.56	54.35	24.5	0.005	19.25	264.2	1903	13.22
10/30/2010 21:00	22518	2_60	2010	303	2100	54.03	51.19	24.53	0	7.748	296	2053	13.29
10/30/2010 22:00	22519	2_60	2010	303	2200	54.19	49.7	24.55	0	7.714	250.1	2108	13.34
10/30/2010 23:00	22520	2_60	2010	303	2300	57.47	46.8	24.56	0	5.12	207.5	2231	13.39

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
10/31/2010 0:00	22521	2_60	2010	304	0	4.7222	228.7236	8.439892	14.99	24.99	49.13	31.2	8.78	10.72	1.939937
10/31/2010 1:00	22522	2_60	2010	304	100	2.776165	232.0005	45.91758	9.3	26.34	22.89	38	7.122	9.08	1.956683
10/31/2010 2:00	22523	2_60	2010	304	200	1.195177	176.1134	50.73729	1.086	10.18	1.885	12.18	5.2	8.45	3.245796
10/31/2010 3:00	22524	2_60	2010	304	300	0.8155546	218.8764	38.87408	-0.025	2.791	0.194	3.727	3.736	7.789	4.053836
10/31/2010 4:00	22525	2_60	2010	304	400	1.297511	217.552	24.34151	3.033	10.48	5.225	13.85	4.024	7.556	3.532159
10/31/2010 5:00	22526	2_60	2010	304	500	2.342277	272.8031	15.31918	3.77	19.5	3.714	9.91	2.688	5.163	2.4753
10/31/2010 6:00	22527	2_60	2010	304	600	0.8178918	160.5733	26.34134	0.154	3.935	0.262	3.026	2.043	5.538	3.495404
10/31/2010 7:00	22528	2_60	2010	304	700	1.16218	285.0436	18.29191	-0.003	5.925	-0.039	2.49	2.067	4.619	2.552117
10/31/2010 8:00	22529	2_60	2010	304	800	0.9914532	124.842	39.42553	-1.13	6.174	-0.851	5.286	3.607	5.181	1.573649
10/31/2010 9:00	22530	2_60	2010	304	900	2.868639	116.0438	23.01483	2.861	22.44	10.81	25.16	7.11	6.283	-0.826157
10/31/2010 10:00	22531	2_60	2010	304	1000	1.377387	322.4133	29.89485	10.99	48.75	6.662	47.2	8.4	7.629	-0.7697668
10/31/2010 11:00	22532	2_60	2010	304	1100	2.086422	305.6	18.10499	6.96	44.84	2.817	44.23	9.85	8.94	-0.9144286
10/31/2010 12:00	22533	2_60	2010	304	1200	1.560084	295.2056	30.23053	0.999	44.6	-0.447	44.37	11.78	10.77	-1.005513
10/31/2010 13:00	22534	2_60	2010	304	1300	2.857887	274.7094	29.44813	19.89	52.93	27.21	55.06	13.82	12.7	-1.121202
10/31/2010 14:00	22535	2_60	2010	304	1400	2.062532	330.1547	40.11539	13.13	51.23	12.09	52.57	14.43	13.38	-1.056773
10/31/2010 15:00	22536	2_60	2010	304	1500	2.069215	30.79342	32.79917	10.67	45.55	4.572	48.56	14.96	13.97	-0.987425
10/31/2010 16:00	22537	2_60	2010	304	1600	1.134729	243.0174	39.23781	10.13	30.12	11.95	28.99	15.04	14.29	-0.7561669
10/31/2010 17:00	22538	2_60	2010	304	1700	1.617455	254.8818	14.23258	2.28	8.64	5.065	9.57	10.76	13.61	2.848954
10/31/2010 18:00	22539	2_60	2010	304	1800	4.493494	265.167	14.91287	21.3	22.88	45.14	32.67	10.29	12.97	2.685232
10/31/2010 19:00	22540	2_60	2010	304	1900	2.670172	251.6778	17.2603	5.349	17.09	14.98	20.22	8.91	11.49	2.587847
10/31/2010 20:00	22541	2_60	2010	304	2000	1.574479	250.3172	26.78306	5	14.07	8.92	14.77	7.537	10.71	3.177125
10/31/2010 21:00	22542	2_60	2010	304	2100	1.291939	236.6828	18.84668	0.973	3.955	2.816	6.252	6.147	10.04	3.894273
10/31/2010 22:00	22543	2_60	2010	304	2200	1.871021	270.0471	8.890924	-0.39	9.71	6.664	8.9	5.145	9.97	4.821221
10/31/2010 23:00	22544	2_60	2010	304	2300	1.697766	275.652	11.40676	1.101	10.64	6.469	10.74	4.618	9.27	4.651595
11/1/2010 0:00	22545	2_60	2010	305	0	1.210367	313.1031	21.62477	3.992	8.13	4.009	8.49	5.298	8.46	3.158525
11/1/2010 1:00	22546	2_60	2010	305	100	0.1571835	227.3094	28.61874	-0.248	0.459	-0.281	0.07	4.07	8.01	3.943882
11/1/2010 2:00	22547	2_60	2010	305	200	0.4790312	297.6954	15.21177	-0.301	0.354	-0.29	0.054	3.968	6.504	2.535684
11/1/2010 3:00	22548	2_60	2010	305	300	0.4177315	287.8779	42.95019	-0.291	0.092	-0.296	0.038	2.396	5.397	3.001868
11/1/2010 4:00	22549	2_60	2010	305	400	0.6760927	245.8268	34.36471	0.005	2.638	0.011	2.355	2.458	4.554	2.095331
11/1/2010 5:00	22550	2_60	2010	305	500	0.3910821	153.4578	32.47694	-0.304	2.531	-0.215	2.155	1.805	4	2.195771
11/1/2010 6:00	22551	2_60	2010	305	600	0.4229122	223.8381	20.50224	-0.049	2.301	0.057	2.772	1.107	3.368	2.26059
11/1/2010 7:00	22552	2_60	2010	305	700	1.455609	266.5294	44.35654	2.182	7.617	2.717	9.31	-0.377	3.106	3.483158
11/1/2010 8:00	22553	2_60	2010	305	800	1.224137	304.7803	30.92646	5.718	12.21	4.518	9.96	0.854	1.245	0.390596
11/1/2010 9:00	22554	2_60	2010	305	900	0.3633194	267.4999	50.30332	-1.765	13.44	-0.497	10.19	4.433	3.788	-0.6447188
11/1/2010 10:00	22555	2_60	2010	305	1000	1.41775	300.8834	26.19771	6.876	31.61	5.238	28.7	8.16	7.387	-0.7698961
11/1/2010 11:00	22556	2_60	2010	305	1100	3.255342	306.864	14.68528	13.8	39.72	7.768	42.9	11.18	10.06	-1.118939
11/1/2010 12:00	22557	2_60	2010	305	1200	3.910845	323.0093	25.58414	32.55	57.78	26.2	62.46	13.03	11.76	-1.277243
11/1/2010 13:00	22558	2_60	2010	305	1300	3.936188	331.3492	36.91936	20.72	57.62	11.81	64.59	13.79	12.63	-1.157754
11/1/2010 14:00	22559	2_60	2010	305	1400	4.463461	323.881	26.49518	32.94	56.55	24.66	62.09	14.8	13.38	-1.427872
11/1/2010 15:00	22560	2_60	2010	305	1500	3.859589	327.7031	24.48557	31.52	53.15	24.15	59.19	14.98	13.93	-1.055347
11/1/2010 16:00	22561	2_60	2010	305	1600	4.670529	321.8225	14.43975	28.57	40.69	21.19	47.23	15.07	14.17	-0.8935874
11/1/2010 17:00	22562	2_60	2010	305	1700	5.144128	343.8076	15.22841	34.16	28.44	21.53	33.74	13.37	13.8	0.4253867
11/1/2010 18:00	22563	2_60	2010	305	1800	1.879887	316.8026	51.12509	15.45	34.96	13.85	34.69	9.34	11.9	2.562008
11/1/2010 19:00	22564	2_60	2010	305	1900	1.539661	279.4735	31.96854	6.601	22.24	6.229	21	8.34	11.19	2.851446
11/1/2010 20:00	22565	2_60	2010	305	2000	2.615994	272.1536	12.99508	1.109	20.2	10.62	20.22	8.29	11.32	3.038938
11/1/2010 21:00	22566	2_60	2010	305	2100	1.173246	262.4428	21.7207	4.314	9.97	2.326	6.982	6.001	10.6	4.59795
11/1/2010 22:00	22567	2_60	2010	305	2200	2.061393	173.0649	10.61535	4.666	9	8.11	13.23	5.687	10.05	4.365247
11/1/2010 23:00	22568	2_60	2010	305	2300	2.144024	155.9021	22.08668	7.937	14.74	14.99	18.82	6.317	9.12	2.801421
11/2/2010 0:00	22569	2_60	2010	306	0	0.8849822	216.6701	26.99258	1.744	4.54	0.203	2.637	4.809	8.67	3.862575
11/2/2010 1:00	22570	2_60	2010	306	100	1.994754	290.7875	19.02579	6.002	17.39	5.154	12.7	4.391	6.734	2.342596
11/2/2010 2:00	22571	2_60	2010	306	200	1.016347	124.132	57.41408	0.456	9.74	0.445	6.934	2.362	5.654	3.291873
11/2/2010 3:00	22572	2_60	2010	306	300	0.7168265	223.0903	38.1772	0.887	9.38	0.3	6.14	2.257	5.235	2.977929
11/2/2010 4:00	22573	2_60	2010	306	400	1.121504	302.8281	31.45711	7.34	18.14	4.483	16.44	2.221	4.296	2.074732
11/2/2010 5:00	22574	2_60	2010	306	500	0.7450427	233.2614	28.09744	-0.048	6.681	-0.058	2.567	1.121	3.372	2.251405
11/2/2010 6:00	22575	2_60	2010	306	600	0.5496061	229.0711	31.75624	-0.455	3.287	-0.15	1.083	0.278	3.084	2.805952
11/2/2010 7:00	22576	2_60	2010	306	700	0.2023538	10.56107	36.14956	0	2.023	-0.22	0.871	0.577	2.582	2.004413
11/2/2010 8:00	22577	2_60	2010	306	800	0.2640204	291.8233	24.86223	-0.259	3.977	-0.17	0.892	1.886	2.489	0.6024358
11/2/2010 9:00	22578	2_60	2010	306	900	0.6660528	306.4286	22.67922	2.652	22.97	1.843	16.29	4.671	4.154	-0.517149
11/2/2010 10:00	22579	2_60	2010	306	1000	1.094795	315.0876	24.11466	-1.785	32.99	-2.651	29.79	6.861	6.138	-0.7228993
11/2/2010 11:00	22580	2_60	2010	306	1100	1.329457	310.9987	24.00623	6.655	44.86	4.222	40.61	9.68	8.87	-0.8056622
11/2/2010 12:00	22581	2_60	2010	306	1200	2.226028	311.5016	16.62525	8.93	40.98	4.589	41.58	12.43	11.41	-1.019439
11/2/2010 13:00	22582	2_60	2010	306	1300	1.743446	314.2573	24.87711	9.4	41.97	7.345	40.29	14.74	13.94	-0.8080753
11/2/2010 14:00	22583	2_60	2010	306	1400	1.775354	306.1482	28.8546	8.71	48.23	6.944	45.9	17.89	17.05	-0.8398896
11/2/2010 15:00	22584	2_60	2010	306	1500	3.9367	305.8118	13.71557	24.74	44.22	19.72	49.08	19.9	18.78	-1.122359
11/2/2010 16:00	22585	2_60	2010	306	1600	2.944161	289.5179	22.69927	18.85	35.27	21.54	36.45	19.93	19.13	-0.8043642
11/2/2010 17:00	22586	2_60	2010	306	1700	2.41575	296.4668	17.737	12.44	21.26	11.8	19	16.16	18.14	1.979059
11/2/2010 18:00	22587	2_60	2010	306	1800	1.626389	264.9452	30.27997	6.514	25.03	7.751	23.08	13.42	16.96	3.543183
11/2/2010 19:00	22588	2_60	2010	306	1900	2.359574	241.5204	29.88548	1.698	41.52	12.74	45.27	14.15	16.61	2.456889
11/2/2010 20:00	22589	2_60	2010	306	2000	2.039035	298.3976	31.16832	6.292	33.86	4.776	32.39	13.85	16.12	2.263332
11/2/2010 21:00	22590	2_60	2010	306	2100	1.407227	138.6411	32.11726	1.111	18.95	2.139	16.44	10.65	14.61	3.960383
11/2/2010 22:00	22591	2_60	2010	306	2200	1.178311	134.4829	25.91155	-1.174	14.88	-0.937	12.13	9.4	13.96	4.565803
11/2/2010 23:00	22592	2_60	2010	306	2300	1.443155	155.2838	27.67274	1.286	17.32	2.616	16.54	8.84	13.53	4.684479

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
10/31/2010 0:00	22521	2_60	2010	304	0	49.78	48.21	24.56	0	6.793	247.1	2348	13.42
10/31/2010 1:00	22522	2_60	2010	304	100	52.85	45.63	24.58	0	7.851	228.8	6	13.43
10/31/2010 2:00	22523	2_60	2010	304	200	61.69	42.05	24.59	0	3.106	117.8	156	13.47
10/31/2010 3:00	22524	2_60	2010	304	300	68.32	39.4	24.59	0	1.98	83.7	200	13.51
10/31/2010 4:00	22525	2_60	2010	304	400	68.13	39.68	24.61	0	2.628	309.9	359	13.54
10/31/2010 5:00	22526	2_60	2010	304	500	74.66	37.36	24.62	0	5.427	293.4	404	13.55
10/31/2010 6:00	22527	2_60	2010	304	600	76.77	36.27	24.63	0	1.843	209.6	503	13.58
10/31/2010 7:00	22528	2_60	2010	304	700	76.49	36.27	24.65	3.163	2.458	299.1	647	13.6
10/31/2010 8:00	22529	2_60	2010	304	800	72.16	39.81	24.65	118.2	2.765	133.1	759	13.6
10/31/2010 9:00	22530	2_60	2010	304	900	51.87	45.74	24.65	296.6	4.881	130.5	810	13.53
10/31/2010 10:00	22531	2_60	2010	304	1000	46.76	49.18	24.65	459.5	3.243	295.4	925	13.44
10/31/2010 11:00	22532	2_60	2010	304	1100	43.56	51.32	24.65	571.9	3.925	315	1034	13.36
10/31/2010 12:00	22533	2_60	2010	304	1200	38.49	54.96	24.64	647.8	3.379	317.2	1141	13.28
10/31/2010 13:00	22534	2_60	2010	304	1300	27.77	58.19	24.63	645.5	6.383	280.5	1259	13.21
10/31/2010 14:00	22535	2_60	2010	304	1400	24.63	59.46	24.6	577.6	6.11	274.8	1300	13.17
10/31/2010 15:00	22536	2_60	2010	304	1500	24.22	60.18	24.6	462.5	5.734	352.4	1418	13.14
10/31/2010 16:00	22537	2_60	2010	304	1600	24.01	60.93	24.59	307.8	3.174	151.3	1501	13.13
10/31/2010 17:00	22538	2_60	2010	304	1700	36.25	52.3	24.6	60.58	3.004	288.2	1651	13.16
10/31/2010 18:00	22539	2_60	2010	304	1800	36.97	50.92	24.63	2.786	7.441	253.1	1743	13.27
10/31/2010 19:00	22540	2_60	2010	304	1900	43.69	48.67	24.66	0	4.949	307.8	1804	13.33
10/31/2010 20:00	22541	2_60	2010	304	2000	50.03	46.2	24.67	0	3.174	233.3	1911	13.39
10/31/2010 21:00	22542	2_60	2010	304	2100	59.12	43.43	24.69	0	2.287	212	2033	13.44
10/31/2010 22:00	22543	2_60	2010	304	2200	66.72	41.77	24.7	0	2.697	273.2	2144	13.48
10/31/2010 23:00	22544	2_60	2010	304	2300	68.98	40.7	24.72	0	2.662	295.3	2200	13.51
11/1/2010 0:00	22545	2_60	2010	305	0	63.9	42	24.72	0	2.389	249.4	2314	13.52
11/1/2010 1:00	22546	2_60	2010	305	100	68.1	40.02	24.73	0	1.058	315.9	58	13.54
11/1/2010 2:00	22547	2_60	2010	305	200	68.97	39.52	24.74	0	1.195	345.9	122	13.56
11/1/2010 3:00	22548	2_60	2010	305	300	74.68	36.75	24.75	0.001	1.229	273.9	200	13.57
11/1/2010 4:00	22549	2_60	2010	305	400	73.62	37.1	24.76	0	1.365	240.7	303	13.59
11/1/2010 5:00	22550	2_60	2010	305	500	76.5	35.9	24.79	0	1.161	133.6	447	13.61
11/1/2010 6:00	22551	2_60	2010	305	600	79.79	34.33	24.8	0	1.331	211.2	542	13.62
11/1/2010 7:00	22552	2_60	2010	305	700	83.5	32.03	24.82	3	2.97	307.4	635	13.64
11/1/2010 8:00	22553	2_60	2010	305	800	76.86	35.44	24.85	115.3	3.686	299.1	708	13.65
11/1/2010 9:00	22554	2_60	2010	305	900	60.93	43.16	24.85	300.1	1.297	25.35	802	13.58
11/1/2010 10:00	22555	2_60	2010	305	1000	48.22	48.73	24.85	463.7	3.755	310.2	947	13.48
11/1/2010 11:00	22556	2_60	2010	305	1100	36.33	53.38	24.85	582.6	6.724	316.1	1051	13.38
11/1/2010 12:00	22557	2_60	2010	305	1200	29.37	56.36	24.83	642.5	8.26	304.6	1157	13.28
11/1/2010 13:00	22558	2_60	2010	305	1300	26.55	57.8	24.82	640.8	8.81	336.5	1240	13.22
11/1/2010 14:00	22559	2_60	2010	305	1400	24.65	59.37	24.82	578.6	8.23	314.7	1339	13.17
11/1/2010 15:00	22560	2_60	2010	305	1500	22.72	60	24.81	459	7.782	347.3	1407	13.13
11/1/2010 16:00	22561	2_60	2010	305	1600	21.96	60.04	24.82	295.8	8.19	317.1	1515	13.15
11/1/2010 17:00	22562	2_60	2010	305	1700	25.18	56.77	24.83	64.02	8.81	335.6	1625	13.17
11/1/2010 18:00	22563	2_60	2010	305	1800	34.38	49.44	24.85	2.588	5.905	346.3	1705	13.27
11/1/2010 19:00	22564	2_60	2010	305	1900	38.58	47.47	24.88	0	6.349	337.2	1829	13.36
11/1/2010 20:00	22565	2_60	2010	305	2000	40.23	47.56	24.89	0	5.564	253.3	1902	13.41
11/1/2010 21:00	22566	2_60	2010	305	2100	49.41	43.33	24.9	0	3.209	312.1	2007	13.45
11/1/2010 22:00	22567	2_60	2010	305	2200	50.96	42.6	24.91	0	4.028	137.5	2159	13.48
11/1/2010 23:00	22568	2_60	2010	305	2300	48.5	43.46	24.91	0	3.959	139.5	2205	13.5
11/2/2010 0:00	22569	2_60	2010	306	0	52.74	41.49	24.92	0	1.775	206	2335	13.52
11/2/2010 1:00	22570	2_60	2010	306	100	54.34	40.59	24.92	0	4.676	298.7	32	13.54
11/2/2010 2:00	22571	2_60	2010	306	200	64.32	36.85	24.93	0	2.458	97.5	150	13.56
11/2/2010 3:00	22572	2_60	2010	306	300	64.63	36.74	24.92	0	2.253	140.4	214	13.58
11/2/2010 4:00	22573	2_60	2010	306	400	64.56	36.44	24.93	0	2.901	320.4	340	13.6
11/2/2010 5:00	22574	2_60	2010	306	500	69.74	34.54	24.93	0	1.946	306	409	13.62
11/2/2010 6:00	22575	2_60	2010	306	600	73.75	33.09	24.93	0	1.331	272.3	513	13.63
11/2/2010 7:00	22576	2_60	2010	306	700	71.74	33.73	24.95	2.594	0.819	184.3	656	13.64
11/2/2010 8:00	22577	2_60	2010	306	800	65.61	37.36	24.96	108.9	1.161	327.8	737	13.64
11/2/2010 9:00	22578	2_60	2010	306	900	51.33	43.33	24.96	290.1	1.809	310.6	844	13.57
11/2/2010 10:00	22579	2_60	2010	306	1000	45.82	46.47	24.94	448.8	2.594	322.7	921	13.47
11/2/2010 11:00	22580	2_60	2010	306	1100	38.53	51.33	24.92	565.1	2.697	293.5	1050	13.38
11/2/2010 12:00	22581	2_60	2010	306	1200	33.03	55.66	24.89	624.2	3.994	321.9	1159	13.28
11/2/2010 13:00	22582	2_60	2010	306	1300	29.33	60.21	24.87	619.5	4.233	315	1200	13.21
11/2/2010 14:00	22583	2_60	2010	306	1400	25.96	66	24.84	559.7	4.574	295	1353	13.13
11/2/2010 15:00	22584	2_60	2010	306	1500	25.34	68.94	24.82	441	6.997	300.7	1459	13.09
11/2/2010 16:00	22585	2_60	2010	306	1600	25.56	69.43	24.82	281.3	6.758	301.9	1504	13.07
11/2/2010 17:00	22586	2_60	2010	306	1700	33.84	62.59	24.82	57.02	4.813	299	1602	13.09
11/2/2010 18:00	22587	2_60	2010	306	1800	43.06	56.58	24.84	2.366	3.516	323.8	1702	13.18
11/2/2010 19:00	22588	2_60	2010	306	1900	40.13	57.83	24.86	0	5.393	233.4	1852	13.25
11/2/2010 20:00	22589	2_60	2010	306	2000	39.86	57.62	24.86	0	5.222	351.6	1933	13.28
11/2/2010 21:00	22590	2_60	2010	306	2100	50.46	51.75	24.87	0	2.799	135.5	2016	13.32
11/2/2010 22:00	22591	2_60	2010	306	2200	55.04	49.45	24.88	0	3.038	87.9	2133	13.36
11/2/2010 23:00	22592	2_60	2010	306	2300	56.53	48.64	24.88	0	3.072	106.5	2215	13.39

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/3/2010 0:00	22593	2_60	2010	307	0	1.539747	118.4051	16.35879	-0.026	9.79	0.552	6.448	8.11	13.03	4.920952
11/3/2010 1:00	22594	2_60	2010	307	100	1.566231	152.3983	21.29673	2.787	11.81	4.014	10.22	8.17	12.28	4.102355
11/3/2010 2:00	22595	2_60	2010	307	200	1.141127	171.231	47.96112	3.889	9.7	3.737	10.02	7.62	11.88	4.262778
11/3/2010 3:00	22596	2_60	2010	307	300	2.480611	278.972	21.11653	9.78	21.09	10.91	17.41	6.192	8.89	2.696873
11/3/2010 4:00	22597	2_60	2010	307	400	0.7801127	209.7828	31.04583	0.944	9.51	0.363	4.475	5.418	8.57	3.146947
11/3/2010 5:00	22598	2_60	2010	307	500	0.2379097	243.8334	17.88741	-0.288	1.29	-0.25	0.115	5.302	8.31	3.009317
11/3/2010 6:00	22599	2_60	2010	307	600	0.744533	268.2594	14.22757	0.871	5.935	-0.18	0.895	4.625	7.491	2.865263
11/3/2010 7:00	22600	2_60	2010	307	700	1.113289	261.0045	20.95682	1.05	9.4	0.544	5.307	3.837	5.889	2.052263
11/3/2010 8:00	22601	2_60	2010	307	800	0.6590345	243.9064	44.70852	0.19	2.562	-0.283	0.242	4.985	6.621	1.635709
11/3/2010 9:00	22602	2_60	2010	307	900	0.3904871	56.85354	30.77375	3.606	21.76	4.714	20.09	8.38	7.863	-0.5130849
11/3/2010 10:00	22603	2_60	2010	307	1000	1.00093	320.8505	29.26155	10.21	40.38	6.885	37.21	10.66	9.98	-0.6834657
11/3/2010 11:00	22604	2_60	2010	307	1100	1.034008	324.8217	43.16176	9.92	42.54	8.57	37.78	12.81	12.06	-0.7527397
11/3/2010 12:00	22605	2_60	2010	307	1200	1.728422	311.2477	20.02951	9.28	41.11	5.512	40.21	15.08	14.26	-0.8140717
11/3/2010 13:00	22606	2_60	2010	307	1300	1.998188	297.6045	25.57004	9.01	47.02	7.306	44.96	17.46	16.54	-0.9159148
11/3/2010 14:00	22607	2_60	2010	307	1400	1.442187	243.5614	32.74396	9.58	45.07	14.89	43.12	19.29	18.3	-0.9866711
11/3/2010 15:00	22608	2_60	2010	307	1500	1.960558	230.9888	19.12076	5.756	36.25	16.42	36.85	20.33	19.4	-0.9274705
11/3/2010 16:00	22609	2_60	2010	307	1600	2.131618	251.7655	10.67252	2.792	21.73	10.94	22.63	19.34	19.41	0.07062984
11/3/2010 17:00	22610	2_60	2010	307	1700	2.072281	271.2542	6.082057	-0.334	9.76	9.2	10.63	14.43	19.06	4.629733
11/3/2010 18:00	22611	2_60	2010	307	1800	3.266465	265.0583	18.9768	14.77	19.24	26.79	28.05	13.64	18.01	4.364432
11/3/2010 19:00	22612	2_60	2010	307	1900	2.383953	270.7154	25.32341	10.57	20.46	19.43	28.61	13.35	16.56	3.205402
11/3/2010 20:00	22613	2_60	2010	307	2000	1.219268	264.5229	22.71406	1.75	10.91	1.98	9.67	11.39	15.54	4.157647
11/3/2010 21:00	22614	2_60	2010	307	2100	0.8405303	99.93024	34.57999	-0.15	2.504	-0.263	0.768	9.68	14.15	4.473119
11/3/2010 22:00	22615	2_60	2010	307	2200	1.202488	175.6498	28.37795	0.147	9.56	2.013	11.35	8.86	13.27	4.414993
11/3/2010 23:00	22616	2_60	2010	307	2300	3.098387	161.7908	12.32609	10.91	18.89	24.39	23.33	8.77	12.92	4.14807
11/4/2010 0:00	22617	2_60	2010	308	0	2.382533	267.6165	23.41992	12.19	23.11	13.48	23.4	6.562	9.39	2.83172
11/4/2010 1:00	22618	2_60	2010	308	100	1.62259	252.6103	35.69266	3.294	16.06	6.746	18.1	5.575	8.33	2.753153
11/4/2010 2:00	22619	2_60	2010	308	200	0.8019916	181.5583	21.26205	0.749	4.809	1.382	6.692	4.585	9.38	4.790303
11/4/2010 3:00	22620	2_60	2010	308	300	1.343793	178.676	34.87339	4.006	10.36	1.961	7.612	5.115	8.61	3.493596
11/4/2010 4:00	22621	2_60	2010	308	400	1.418633	238.7632	48.90414	3.039	12.62	2.015	5.993	3.863	6.753	2.89004
11/4/2010 5:00	22622	2_60	2010	308	500	0.5789832	117.1707	26.93024	0.692	4.538	0.056	1.953	2.727	6.498	3.771766
11/4/2010 6:00	22623	2_60	2010	308	600	0.9936446	273.565	22.01795	-0.208	5.547	-0.042	1.387	2.759	4.963	2.203719
11/4/2010 7:00	22624	2_60	2010	308	700	0.7974932	264.6784	8.621882	-0.524	1.391	-0.239	0.13	2.919	5.192	2.272309
11/4/2010 8:00	22625	2_60	2010	308	800	0.381013	274.3145	24.32393	-0.193	1.125	-0.268	0.17	3.794	4.985	1.190701
11/4/2010 9:00	22626	2_60	2010	308	900	0.3977661	342.5054	30.90444	0.793	21.72	1.446	16.73	6.669	6.121	-0.5476465
11/4/2010 10:00	22627	2_60	2010	308	1000	0.6423611	310.9951	41.83558	-3.886	41.22	-4.306	36.42	8.86	8.13	-0.7278216
11/4/2010 11:00	22628	2_60	2010	308	1100	0.8668709	321.3849	44.77584	6.783	49.51	4.824	46.77	11.05	10.25	-0.7917944
11/4/2010 12:00	22629	2_60	2010	308	1200	1.145854	315.1608	30.20118	-2.397	52.44	-5.465	47.62	13.06	12.25	-0.813959
11/4/2010 13:00	22630	2_60	2010	308	1300	1.043623	309.7775	52.58661	11.13	54.97	7.713	51.33	15.22	14.48	-0.7399247
11/4/2010 14:00	22631	2_60	2010	308	1400	1.329204	254.0198	35.4178	4.689	49.05	9.33	47.67	17.18	16.33	-0.8487303
11/4/2010 15:00	22632	2_60	2010	308	1500	1.714029	269.0129	34.50974	6.041	41.15	9.2	38.41	18.51	17.59	-0.9131047
11/4/2010 16:00	22633	2_60	2010	308	1600	1.903943	220.3673	6.868176	-0.381	9.45	2.824	10.68	17.5	17.6	0.1010379
11/4/2010 17:00	22634	2_60	2010	308	1700	1.471881	227.0959	11.23496	1.921	4.585	6.438	10.05	12.09	16.98	4.888656
11/4/2010 18:00	22635	2_60	2010	308	1800	1.824648	207.2354	10.97589	1.824	5.321	6.332	10.91	11.04	16.27	5.230625
11/4/2010 19:00	22636	2_60	2010	308	1900	1.164711	208.8504	24.4303	2.187	8.48	3.687	10.34	10.36	15.41	5.05077
11/4/2010 20:00	22637	2_60	2010	308	2000	0.9906332	229.6726	16.97851	1.956	6.639	2.796	8.53	10.01	14.68	4.666735
11/4/2010 21:00	22638	2_60	2010	308	2100	1.084608	190.7316	28.76462	0.975	4.07	0.772	4.245	9.02	13.89	4.867389
11/4/2010 22:00	22639	2_60	2010	308	2200	0.5651338	239.459	42.82072	0.559	4.107	0.354	3.23	8	11.93	3.934586
11/4/2010 23:00	22640	2_60	2010	308	2300	0.5579903	204.938	29.69081	-0.047	2.792	0.187	2.849	7.317	10.79	3.47129
11/5/2010 0:00	22641	2_60	2010	309	0	0.9806756	273.5403	30.44376	0.871	4.184	-0.122	1.38	6.614	9.37	2.755395
11/5/2010 1:00	22642	2_60	2010	309	100	1.242424	288.5768	29.39173	-1.142	9.79	1.297	5.376	5.129	7.61	2.480956
11/5/2010 2:00	22643	2_60	2010	309	200	1.360799	217.9259	31.20975	-1.947	7.352	1.366	4.901	3.941	6.885	2.943404
11/5/2010 3:00	22644	2_60	2010	309	300	0.5550044	221.3532	21.15048	-0.201	1.109	-0.262	0.381	4.207	7.541	3.33408
11/5/2010 4:00	22645	2_60	2010	309	400	0.5837598	202.5464	17.48321	0.036	2.732	0.083	2.836	3.355	7.368	4.013245
11/5/2010 5:00	22646	2_60	2010	309	500	1.054516	288.9637	15.46649	1.39	9.37	0.458	3.968	3.407	5.97	2.563368
11/5/2010 6:00	22647	2_60	2010	309	600	1.765943	278.6748	25.58835	5.582	12.75	5.052	9.96	1.667	3.985	2.317775
11/5/2010 7:00	22648	2_60	2010	309	700	0.3620411	181.4126	30.77938	0.409	3.416	-0.051	1.712	1.245	4.015	2.76961
11/5/2010 8:00	22649	2_60	2010	309	800	0.6855947	95.01215	47.25698	0.03	2.598	-0.264	0.36	3.276	4.474	1.198538
11/5/2010 9:00	22650	2_60	2010	309	900	0.693019	320.6432	23.01385	1.922	19.61	1.253	15.22	6.87	6.258	-0.6117133
11/5/2010 10:00	22651	2_60	2010	309	1000	1.141983	313.2001	26.17781	3.132	36.07	1.539	34.09	8.72	8.04	-0.673336
11/5/2010 11:00	22652	2_60	2010	309	1100	1.030853	311.095	36.02951	6.51	49.82	4.724	45.7	10.78	10.09	-0.6891257
11/5/2010 12:00	22653	2_60	2010	309	1200	1.386323	336.0858	26.36258	10.98	49.26	6.761	46.91	13.28	12.54	-0.7460272
11/5/2010 13:00	22654	2_60	2010	309	1300	1.198959	315.5726	30.05093	3.188	47.02	2.007	43.2	15.36	14.55	-0.8143518
11/5/2010 14:00	22655	2_60	2010	309	1400	0.9389505	62.36275	58.62356	5.887	45.74	6.11	45.08	17.68	16.74	-0.9379322
11/5/2010 15:00	22656	2_60	2010	309	1500	1.116354	179.2707	39.89875	20.74	39.72	24.81	39.14	19.33	18.37	-0.9573768
11/5/2010 16:00	22657	2_60	2010	309	1600	1.816803	218.6497	10.03976	2.761	14.78	8.88	17.59	18.06	18.43	0.3731044
11/5/2010 17:00	22658	2_60	2010	309	1700	1.874114	223.4821	17.50443	5.467	9.51	17.65	16.69	13.84	17.92	4.087646
11/5/2010 18:00	22659	2_60	2010	309	1800	1.33959	219.644	11.3221	1.048	3.837	1.924	5.353	11.5	17.23	5.735269
11/5/2010 19:00	22660	2_60	2010	309	1900	1.660669	193.9211	13.02358	1.876	5.002	5.416	8.76	11.86	16.47	4.608437
11/5/2010 20:00	22661	2_60	2010	309	2000	1.261986	223.2513	20.15598	0.603	3.682	2.388	6.175	11.36	15.71	4.348337
11/5/2010 21:00	22662	2_60	2010	309	2100	0.6768067	267.4502	34.08875	0.206	3.017	-0.202	0.477	9.39	14.34	4.955101
11/5/2010 22:00	22663	2_60	2010	309	2200	0.4099702	246.7026	38.88037	0.081	3.174	0.008	2.668	8.91	12.75	3.840362
11/5/2010 23:00	22664	2_60	2010	309	2300	0.6451483	219.7658	27.99945	0.506	3.327	-0.105	1.247	7.389	11.81	4.417804

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/3/2010 0:00	22593	2_60	2010	307	0	59.43	47.1	24.88	0	3.311	119	2337	13.42
11/3/2010 1:00	22594	2_60	2010	307	100	59.11	47.07	24.88	0	3.447	130.6	5	13.44
11/3/2010 2:00	22595	2_60	2010	307	200	60.25	46.24	24.88	0	2.014	188.6	127	13.45
11/3/2010 3:00	22596	2_60	2010	307	300	65.43	43.61	24.88	0	4.881	303.3	212	13.47
11/3/2010 4:00	22597	2_60	2010	307	400	68.16	42.35	24.88	0	1.843	230.9	351	13.49
11/3/2010 5:00	22598	2_60	2010	307	500	68.19	42.16	24.89	0	1.092	296.4	403	13.51
11/3/2010 6:00	22599	2_60	2010	307	600	70.43	40.97	24.9	0	1.946	314	547	13.53
11/3/2010 7:00	22600	2_60	2010	307	700	72.84	39.6	24.92	2.471	2.014	246.5	618	13.54
11/3/2010 8:00	22601	2_60	2010	307	800	70.88	41.95	24.93	107.3	1.468	28.5	758	13.55
11/3/2010 9:00	22602	2_60	2010	307	900	52.93	50.31	24.93	292.4	1.468	42.26	800	13.49
11/3/2010 10:00	22603	2_60	2010	307	1000	46.93	53.73	24.93	454.7	3.072	330.8	959	13.4
11/3/2010 11:00	22604	2_60	2010	307	1100	42.41	57.11	24.91	572.9	2.731	351.3	1033	13.31
11/3/2010 12:00	22605	2_60	2010	307	1200	36.91	60.84	24.88	634.4	3.584	309.8	1124	13.22
11/3/2010 13:00	22606	2_60	2010	307	1300	30.18	65.12	24.85	632.6	4.13	301.3	1246	13.15
11/3/2010 14:00	22607	2_60	2010	307	1400	25.36	68.49	24.83	569.5	3.277	259.4	1356	13.1
11/3/2010 15:00	22608	2_60	2010	307	1500	21.24	70.07	24.81	450.5	3.413	227.3	1443	13.06
11/3/2010 16:00	22609	2_60	2010	307	1600	24.91	67.82	24.8	286.6	3.243	233.3	1518	13.05
11/3/2010 17:00	22610	2_60	2010	307	1700	35.11	58.56	24.8	54.71	2.833	272.7	1610	13.1
11/3/2010 18:00	22611	2_60	2010	307	1800	35.33	56.94	24.82	2.27	6.144	243.4	1750	13.2
11/3/2010 19:00	22612	2_60	2010	307	1900	37.83	56.66	24.83	0	5.018	261.7	1801	13.26
11/3/2010 20:00	22613	2_60	2010	307	2000	41.49	53.09	24.84	0	3.652	261.6	1920	13.32
11/3/2010 21:00	22614	2_60	2010	307	2100	47.06	49.72	24.84	0	1.775	353.6	2003	13.36
11/3/2010 22:00	22615	2_60	2010	307	2200	49.78	48.18	24.85	0	5.495	131.4	2157	13.4
11/3/2010 23:00	22616	2_60	2010	307	2300	50.07	48.2	24.84	0	5.086	123	2204	13.43
11/4/2010 0:00	22617	2_60	2010	308	0	57.45	44.74	24.85	0	6.11	302	2324	13.44
11/4/2010 1:00	22618	2_60	2010	308	100	61.99	42.5	24.85	0	4.403	269.1	6	13.48
11/4/2010 2:00	22619	2_60	2010	308	200	67.95	40.44	24.85	0	1.775	208.5	157	13.5
11/4/2010 3:00	22620	2_60	2010	308	300	64.2	41.53	24.84	0	3.038	149.2	228	13.52
11/4/2010 4:00	22621	2_60	2010	308	400	68.58	39.32	24.84	0	3.482	291.5	335	13.54
11/4/2010 5:00	22622	2_60	2010	308	500	72.37	37.55	24.85	0	2.185	116.7	404	13.56
11/4/2010 6:00	22623	2_60	2010	308	600	72.52	37.36	24.85	0	2.048	300.1	518	13.58
11/4/2010 7:00	22624	2_60	2010	308	700	71.23	37.9	24.85	2.184	1.126	263.4	634	13.59
11/4/2010 8:00	22625	2_60	2010	308	800	67.35	40.95	24.87	102.3	0.99	254.6	700	13.59
11/4/2010 9:00	22626	2_60	2010	308	900	52.86	47.37	24.86	284.8	1.365	312.6	842	13.53
11/4/2010 10:00	22627	2_60	2010	308	1000	45.2	50.68	24.85	440.9	2.014	310.6	950	13.43
11/4/2010 11:00	22628	2_60	2010	308	1100	39.49	54.22	24.83	552.4	2.901	307.9	1053	13.34
11/4/2010 12:00	22629	2_60	2010	308	1200	35.43	57.52	24.8	619.2	4.813	345.6	1127	13.26
11/4/2010 13:00	22630	2_60	2010	308	1300	31	61.75	24.76	621.9	3.004	318.8	1234	13.18
11/4/2010 14:00	22631	2_60	2010	308	1400	26.89	64.75	24.74	560.1	3.106	300	1318	13.12
11/4/2010 15:00	22632	2_60	2010	308	1500	20.53	67.34	24.73	440.2	3.994	261.7	1437	13.09
11/4/2010 16:00	22633	2_60	2010	308	1600	24.49	64.46	24.72	277.8	2.867	229.4	1506	13.08
11/4/2010 17:00	22634	2_60	2010	308	1700	36.67	54.31	24.71	49.79	2.731	220.4	1619	13.13
11/4/2010 18:00	22635	2_60	2010	308	1800	38.91	52	24.71	1.932	2.628	216.4	1702	13.24
11/4/2010 19:00	22636	2_60	2010	308	1900	41.02	50.94	24.71	0	2.321	205.1	1822	13.31
11/4/2010 20:00	22637	2_60	2010	308	2000	45.16	50.45	24.71	0	2.219	239.5	1927	13.36
11/4/2010 21:00	22638	2_60	2010	308	2100	49.14	48.49	24.72	0	1.946	161.4	2011	13.4
11/4/2010 22:00	22639	2_60	2010	308	2200	52.15	47.03	24.73	0	1.877	184	2130	13.42
11/4/2010 23:00	22640	2_60	2010	308	2300	53.95	45.79	24.73	0	1.57	113.7	2237	13.45
11/5/2010 0:00	22641	2_60	2010	309	0	55.24	44.53	24.73	0	2.116	113.2	2302	13.47
11/5/2010 1:00	22642	2_60	2010	309	100	60.59	41.64	24.73	0	2.833	274.9	42	13.5
11/5/2010 2:00	22643	2_60	2010	309	200	64.16	39.63	24.73	0	2.697	272.3	109	13.53
11/5/2010 3:00	22644	2_60	2010	309	300	61.86	40.26	24.73	0	1.434	83.5	206	13.54
11/5/2010 4:00	22645	2_60	2010	309	400	66.49	38.46	24.73	0	1.707	158.3	325	13.56
11/5/2010 5:00	22646	2_60	2010	309	500	65.32	38.44	24.73	0	2.321	292.3	458	13.57
11/5/2010 6:00	22647	2_60	2010	309	600	70.38	35.56	24.74	0	3.482	297.4	508	13.59
11/5/2010 7:00	22648	2_60	2010	309	700	73.69	34.6	24.75	2.116	1.263	300.3	600	13.61
11/5/2010 8:00	22649	2_60	2010	309	800	66.05	38.76	24.76	98	1.604	127.4	744	13.61
11/5/2010 9:00	22650	2_60	2010	309	900	48.05	47.26	24.75	280.7	1.741	291.1	841	13.54
11/5/2010 10:00	22651	2_60	2010	309	1000	41.24	50.04	24.75	439.3	2.765	322.1	948	13.44
11/5/2010 11:00	22652	2_60	2010	309	1100	36.46	53.49	24.73	555.1	2.935	345.2	1014	13.35
11/5/2010 12:00	22653	2_60	2010	309	1200	32.53	57.65	24.7	615.2	2.867	323	1142	13.26
11/5/2010 13:00	22654	2_60	2010	309	1300	28.99	61.73	24.67	613.5	3.413	315.7	1221	13.18
11/5/2010 14:00	22655	2_60	2010	309	1400	25.88	65.66	24.65	551.7	2.697	350.5	1316	13.12
11/5/2010 15:00	22656	2_60	2010	309	1500	23.73	68.48	24.63	422.3	2.56	206.4	1451	13.08
11/5/2010 16:00	22657	2_60	2010	309	1600	27.29	65.56	24.63	247.9	2.799	225	1527	13.07
11/5/2010 17:00	22658	2_60	2010	309	1700	37.56	57.53	24.62	45.54	3.311	189.2	1620	13.12
11/5/2010 18:00	22659	2_60	2010	309	1800	44.28	52.91	24.64	1.687	2.389	215.6	1739	13.22
11/5/2010 19:00	22660	2_60	2010	309	1900	42.87	53.39	24.64	0	2.492	188.2	1826	13.3
11/5/2010 20:00	22661	2_60	2010	309	2000	43.72	52.84	24.65	0	2.389	194.2	1914	13.34
11/5/2010 21:00	22662	2_60	2010	309	2100	50.11	49.49	24.66	0	1.604	226	2000	13.37
11/5/2010 22:00	22663	2_60	2010	309	2200	50.91	48.85	24.67	0	1.536	268.8	2110	13.4
11/5/2010 23:00	22664	2_60	2010	309	2300	56.57	45.93	24.67	0	1.434	237.8	2218	13.43

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/6/2010 0:00	22665	2_60	2010	310	0	0.2972437	268.0797	33.99286	-0.309	1.274	-0.274	0.084	7.012	10.53	3.515368
11/6/2010 1:00	22666	2_60	2010	310	100	1.01368	258.5306	45.80787	0.389	5.745	0.16	2.348	5.805	8.92	3.111721
11/6/2010 2:00	22667	2_60	2010	310	200	0.3865871	260.14	20.07306	0.104	2.137	-0.281	0.149	5.191	9.04	3.853474
11/6/2010 3:00	22668	2_60	2010	310	300	0.1694141	114.2479	18.22226	-0.245	0.543	-0.261	0.105	4.885	8.01	3.129384
11/6/2010 4:00	22669	2_60	2010	310	400	0.4343179	264.3344	18.49992	-0.387	1.007	-0.249	0.287	4.607	7.34	2.732487
11/6/2010 5:00	22670	2_60	2010	310	500	0.6074606	211.5501	34.0438	-0.28	4.439	0.255	3.533	4.2	6.715	2.514984
11/6/2010 6:00	22671	2_60	2010	310	600	0.2588147	156.0375	26.8085	-0.289	0.036	-0.282	0.07	3.61	6.141	2.531268
11/6/2010 7:00	22672	2_60	2010	310	700	0.3965405	164.2806	18.61521	-0.232	0.451	-0.232	0.182	2.868	5.867	2.999576
11/6/2010 8:00	22673	2_60	2010	310	800	0.9300174	282.2266	35.76457	0.015	9.15	0.896	5.973	3.412	4.811	1.399226
11/6/2010 9:00	22674	2_60	2010	310	900	0.7287725	292.8687	28.09909	4.357	18.44	3.138	13.29	6.823	6.243	-0.5798467
11/6/2010 10:00	22675	2_60	2010	310	1000	1.209737	316.9422	22.83826	4.814	35.81	2.594	33.67	9.04	8.31	-0.7323439
11/6/2010 11:00	22676	2_60	2010	310	1100	0.6356175	313.8315	48.12794	9.87	48.36	10.12	44.8	11.71	10.95	-0.7580426
11/6/2010 12:00	22677	2_60	2010	310	1200	0.6001477	57.78962	45.31277	4.948	47.43	5.299	45.1	14.22	13.43	-0.7983107
11/6/2010 13:00	22678	2_60	2010	310	1300	0.6686144	41.28609	41.83754	-7.734	44.7	-8.04	44.2	16.66	15.92	-0.7409791
11/6/2010 14:00	22679	2_60	2010	310	1400	0.6608762	3.858653	52.22703	-10.23	45.91	-10.04	42.13	18.94	18.07	-0.8750288
11/6/2010 15:00	22680	2_60	2010	310	1500	1.642945	271.2872	39.76485	5.13	46.82	9.08	46.43	20.4	19.64	-0.7676408
11/6/2010 16:00	22681	2_60	2010	310	1600	2.56412	219.6686	44.07315	-7.091	66.67	3.574	66.87	20.89	20.42	-0.4773759
11/6/2010 17:00	22682	2_60	2010	310	1700	2.250463	243.303	52.9964	-12.97	72.74	-4.825	71.94	19.28	19.46	0.1810485
11/6/2010 18:00	22683	2_60	2010	310	1800	1.648064	238.6922	80.55728	2.652	40.44	6.444	38.85	15.89	18.01	2.117911
11/6/2010 19:00	22684	2_60	2010	310	1900	2.29967	218.1267	31.11999	7.383	40.62	20.26	43.11	15.14	17.28	2.133013
11/6/2010 20:00	22685	2_60	2010	310	2000	1.289498	281.9858	49.17457	2.91	17.36	3.968	19.19	12.19	15.69	3.498246
11/6/2010 21:00	22686	2_60	2010	310	2100	0.8949167	286.3907	28.65887	1.363	7.726	0.324	5.696	10.74	14.83	4.098688
11/6/2010 22:00	22687	2_60	2010	310	2200	0.8985003	194.8759	48.81478	0.354	4.278	1.06	5.131	10.2	13.98	3.779545
11/6/2010 23:00	22688	2_60	2010	310	2300	0.8888583	221.0077	20.08219	0.219	2.467	0.297	2.888	9	13.22	4.219759
11/7/2010 0:00	22689	2_60	2010	311	0	0.5057691	237.4105	25.69526	-0.027	1.49	-0.207	0.557	8.47	12.48	4.011685
11/7/2010 1:00	22690	2_60	2010	311	100	0.7110818	274.6678	54.45885	0.42	4.316	0.316	2.995	7.707	10.87	3.161148
11/7/2010 2:00	22691	2_60	2010	311	200	0.7714095	329.2513	31.43591	2.054	6.173	0.19	2.374	6.964	9.61	2.646429
11/7/2010 3:00	22692	2_60	2010	311	300	1.112399	267.6299	54.0281	3.155	11.56	1.459	5.71	5.243	8.4	3.15911
11/7/2010 4:00	22693	2_60	2010	311	400	1.380341	268.2876	35.87989	-0.151	9.68	5.281	12.09	4.55	7.563	3.012868
11/7/2010 5:00	22694	2_60	2010	311	500	0.6620134	303.2109	47.72501	0.818	6.923	1.908	8.32	4.596	7.963	3.366747
11/7/2010 6:00	22695	2_60	2010	311	600	2.224771	262.946	30.88769	10.11	33.6	17.98	35.17	3.783	7.293	3.509383
11/7/2010 7:00	22696	2_60	2010	311	700	2.804556	232.1193	29.05127	10.16	48.07	21.83	52.95	5.341	7.623	2.282383
11/7/2010 8:00	22697	2_60	2010	311	800	8.408597	187.0431	9.133806	12.9	59.88	73.47	73.3	11.49	11.67	0.1814658
11/7/2010 9:00	22698	2_60	2010	311	900	8.671259	185.3943	7.669878	18.78	58.69	81.7	70.89	12.36	11.9	-0.4625514
11/7/2010 10:00	22699	2_60	2010	311	1000	4.96712	184.698	22.20054	9.38	70	39.35	78.47	14.22	13.19	-1.033054
11/7/2010 11:00	22700	2_60	2010	311	1100	2.743978	193.0047	41.71701	-7.115	76.3	6.313	80.1	15.24	14.28	-0.9571518
11/7/2010 12:00	22701	2_60	2010	311	1200	4.02809	205.6539	44.38551	4.957	80.6	27.98	88.7	16.31	15.13	-1.186529
11/7/2010 13:00	22702	2_60	2010	311	1300	5.132328	208.8594	36.29514	-3.968	102.1	25.97	112.3	16.57	15.53	-1.043169
11/7/2010 14:00	22703	2_60	2010	311	1400	5.439559	191.5342	34.13779	15.25	98.8	46.87	110.3	16.77	15.69	-1.077206
11/7/2010 15:00	22704	2_60	2010	311	1500	4.532039	199.425	37.31802	2.511	94.7	26.09	102.1	16.74	15.77	-0.9688201
11/7/2010 16:00	22705	2_60	2010	311	1600	4.740335	185.5327	36.93192	4.255	95.4	29.71	107	16.29	15.64	-0.6540065
11/7/2010 17:00	22706	2_60	2010	311	1700	4.718011	175.6065	28.44928	6.839	84.5	31.67	92.5	15	15.08	0.0882029
11/7/2010 18:00	22707	2_60	2010	311	1800	4.013474	158.8316	28.61363	-3.398	65.72	13.28	70.84	13.99	14.49	0.5075783
11/7/2010 19:00	22708	2_60	2010	311	1900	4.741899	162.9984	8.408156	7.124	28.96	30.93	34.44	12.23	13.88	1.654606
11/7/2010 20:00	22709	2_60	2010	311	2000	4.668823	159.105	11.2583	0.13	35.15	20.1	42.04	12.12	13.73	1.613909
11/7/2010 21:00	22710	2_60	2010	311	2100	5.770904	153.4637	7.586333	10.47	35.72	38.4	44	12.51	13.57	1.068344
11/7/2010 22:00	22711	2_60	2010	311	2200	5.587346	153.6738	9.526623	9.69	39.97	35.77	46.41	12.93	13.76	0.8256321
11/7/2010 23:00	22712	2_60	2010	311	2300	2.115005	242.4791	57.70791	8.58	27.74	10.34	31.1	7.759	9.83	2.07236
11/8/2010 0:00	22713	2_60	2010	312	0	1.162976	210.7161	52.31588	2.693	18.82	5.365	18.36	6.926	10.72	3.794145
11/8/2010 1:00	22714	2_60	2010	312	100	0.9465477	181.0255	37.84915	1.472	6.818	1.464	6.342	6.412	10.19	3.781252
11/8/2010 2:00	22715	2_60	2010	312	200	1.226379	286.4257	48.05608	3.424	15.73	4.129	15.15	7.627	9.38	1.755858
11/8/2010 3:00	22716	2_60	2010	312	300	1.363078	249.9729	47.97163	1.271	11.4	0.318	8.88	6.668	8.93	2.261313
11/8/2010 4:00	22717	2_60	2010	312	400	1.079465	247.0479	45.28741	1.865	9.28	2.708	9.08	5.955	9.17	3.212834
11/8/2010 5:00	22718	2_60	2010	312	500	1.16468	261.6829	46.65775	3.139	18.62	2.93	16.93	6.035	9.16	3.126328
11/8/2010 6:00	22719	2_60	2010	312	600	1.549676	273.3824	71.52599	8.38	40.7	9.97	39.9	6.824	9.54	2.715549
11/8/2010 7:00	22720	2_60	2010	312	700	2.735834	217.1596	34.54913	7.602	49.66	21.37	53.55	8.41	11.6	3.194847
11/8/2010 8:00	22721	2_60	2010	312	800	3.201923	218.8557	39.57166	6.771	58.84	21.89	65.15	11.39	12.21	0.8241183
11/8/2010 9:00	22722	2_60	2010	312	900	1.886203	273.5624	58.30298	14.13	56.84	18.17	60.07	12.49	12.19	-0.2928288
11/8/2010 10:00	22723	2_60	2010	312	1000	6.333734	162.1991	25.34887	-0.856	106	28.15	121.2	15.51	14.49	-1.019141
11/8/2010 11:00	22724	2_60	2010	312	1100	3.948102	137.0898	52.34655	16.03	94.3	27.17	98.1	15.46	14.58	-0.8806049
11/8/2010 12:00	22725	2_60	2010	312	1200	4.341519	12.63311	50.63949	16.77	99.1	3.814	105.2	15.37	14.8	-0.5683229
11/8/2010 13:00	22726	2_60	2010	312	1300	3.869996	81.38335	58.19774	26.06	102.8	31.76	108.8	15.63	15.05	-0.5732618
11/8/2010 14:00	22727	2_60	2010	312	1400	4.026875	133.6491	67.20238	-24.23	149.6	-16.02	157.1	15.4	14.91	-0.4884363
11/8/2010 15:00	22728	2_60	2010	312	1500	5.361683	135.7596	53.34737	-10.39	123.6	3.787	135.2	14.89	14.55	-0.3367214
11/8/2010 16:00	22729	2_60	2010	312	1600	3.529435	54.83774	78.46481	-2.338	98.3	0.191	104.9	14.35	14.09	-0.2606334
11/8/2010 17:00	22730	2_60	2010	312	1700	3.547662	118.8475	62.89819	-5.179	108.1	1.338	114.6	14.54	14.43	-0.1032153
11/8/2010 18:00	22731	2_60	2010	312	1800	4.875196	148.034	61.58526	-25.69	144.3	-10.49	151.5	14.49	14.47	-0.01888335
11/8/2010 19:00	22732	2_60	2010	312	1900	5.868437	139.3563	39.10758	-1.088	111.9	19.45	124.1	14.01	13.94	-0.07017311
11/8/2010 20:00	22733	2_60	2010	312	2000	3.565016	199.2659	69.8125	1.031	92.5	12.11	97.7	13.12	13.03	-0.09624474
11/8/2010 21:00	22734	2_60	2010	312	2100	5.933094	261.4995	14.20305	-1.712	52.31	25.77	60.71	10.07	10.25	0.184929
11/8/2010 22:00	22735	2_60	2010	312	2200	5.268122	269.5109	13.50359	-3.207	46.88	17.62	56.21	7.327	7.415	0.08732995
11/8/2010 23:00	22736	2_60	2010	312	2300	6.406129	251.2473	11.67998	11.69	61.93	46.65	73.4	5.162	5.235	0.0724721

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/6/2010 0:00	22665	2_60	2010	310	0	58.12	45.25	24.68	0	1.092	296	2348	13.46
11/6/2010 1:00	22666	2_60	2010	310	100	62.45	43.03	24.68	0	2.97	290	26	13.48
11/6/2010 2:00	22667	2_60	2010	310	200	64.33	42.09	24.69	0	1.092	250.7	127	13.51
11/6/2010 3:00	22668	2_60	2010	310	300	64.77	41.47	24.69	0	0.819	83.6	209	13.52
11/6/2010 4:00	22669	2_60	2010	310	400	65.96	40.8	24.69	0	1.297	287.5	328	13.54
11/6/2010 5:00	22670	2_60	2010	310	500	67.88	39.95	24.7	0	2.219	263.8	413	13.55
11/6/2010 6:00	22671	2_60	2010	310	600	69.46	39.02	24.71	0	1.024	162.1	532	13.56
11/6/2010 7:00	22672	2_60	2010	310	700	72.78	37.76	24.72	1.801	1.263	100.4	658	13.58
11/6/2010 8:00	22673	2_60	2010	310	800	71.34	39.2	24.73	93.8	3.174	271.3	730	13.58
11/6/2010 9:00	22674	2_60	2010	310	900	53.55	47.14	24.73	276.7	2.355	324.1	858	13.52
11/6/2010 10:00	22675	2_60	2010	310	1000	47.34	50.41	24.73	425	2.492	351.5	952	13.43
11/6/2010 11:00	22676	2_60	2010	310	1100	39.44	55.19	24.72	531.4	2.458	349	1034	13.34
11/6/2010 12:00	22677	2_60	2010	310	1200	33.53	59.74	24.68	570.6	1.98	343.8	1106	13.25
11/6/2010 13:00	22678	2_60	2010	310	1300	29.66	64.1	24.65	617.5	2.048	58.84	1230	13.17
11/6/2010 14:00	22679	2_60	2010	310	1400	25.76	68.6	24.62	545.5	2.287	328.7	1341	13.1
11/6/2010 15:00	22680	2_60	2010	310	1500	23.52	70.61	24.61	404.8	6.144	138.4	1454	13.06
11/6/2010 16:00	22681	2_60	2010	310	1600	20.03	70.61	24.61	206.5	8.67	201.7	1545	13.06
11/6/2010 17:00	22682	2_60	2010	310	1700	22.77	67.2	24.61	46.26	7.612	245.5	1602	13.1
11/6/2010 18:00	22683	2_60	2010	310	1800	29.72	61.08	24.63	1.319	4.779	207.9	1720	13.16
11/6/2010 19:00	22684	2_60	2010	310	1900	30.08	59.91	24.62	0	5.598	200.3	1809	13.23
11/6/2010 20:00	22685	2_60	2010	310	2000	36.31	54.5	24.62	0	4.813	227.6	1900	13.28
11/6/2010 21:00	22686	2_60	2010	310	2100	39.94	52.18	24.64	0	2.116	228	2003	13.33
11/6/2010 22:00	22687	2_60	2010	310	2200	41.79	50.95	24.64	0	2.15	190.4	2128	13.37
11/6/2010 23:00	22688	2_60	2010	310	2300	46.11	48.96	24.63	0	1.877	194.1	2206	13.4
11/7/2010 0:00	22689	2_60	2010	311	0	48.98	47.77	24.63	0	1.468	221.9	2320	13.42
11/7/2010 1:00	22690	2_60	2010	311	100	52.05	46.33	24.63	0	2.321	210.2	33	13.44
11/7/2010 2:00	22691	2_60	2010	311	200	54.85	44.89	24.63	0	2.355	317.1	133	13.46
11/7/2010 3:00	22692	2_60	2010	311	300	61.07	42.05	24.63	0	4.574	290	257	13.48
11/7/2010 4:00	22693	2_60	2010	311	400	63.32	40.68	24.62	0	3.857	274.4	301	13.51
11/7/2010 5:00	22694	2_60	2010	311	500	62.67	40.85	24.62	0	3.345	247.2	454	13.53
11/7/2010 6:00	22695	2_60	2010	311	600	66.42	39.07	24.62	0	4.676	223.5	550	13.55
11/7/2010 7:00	22696	2_60	2010	311	700	60.13	41.85	24.63	1.309	8.09	166.8	648	13.55
11/7/2010 8:00	22697	2_60	2010	311	800	33.91	53.09	24.65	111.3	12.8	187.8	758	13.48
11/7/2010 9:00	22698	2_60	2010	311	900	30.92	54.6	24.65	240.6	13.52	190.2	807	13.39
11/7/2010 10:00	22699	2_60	2010	311	1000	27.39	58.07	24.65	425.3	10.51	184.6	901	13.32
11/7/2010 11:00	22700	2_60	2010	311	1100	25.4	60.46	24.64	542	8.57	210.6	1019	13.26
11/7/2010 12:00	22701	2_60	2010	311	1200	24.03	62.18	24.61	620.7	13.18	230.9	1132	13.2
11/7/2010 13:00	22702	2_60	2010	311	1300	22.96	62.45	24.59	616.6	11.37	213.1	1246	13.16
11/7/2010 14:00	22703	2_60	2010	311	1400	22.04	62.76	24.58	532.8	12.73	182.5	1340	13.13
11/7/2010 15:00	22704	2_60	2010	311	1500	21.86	62.76	24.57	423.4	11.5	146.3	1417	13.13
11/7/2010 16:00	22705	2_60	2010	311	1600	22.08	62	24.56	260.5	12.29	155.8	1549	13.13
11/7/2010 17:00	22706	2_60	2010	311	1700	24.8	59.41	24.56	28.69	12.08	148.1	1604	13.17
11/7/2010 18:00	22707	2_60	2010	311	1800	26.36	57.66	24.56	0.956	9.9	156	1708	13.23
11/7/2010 19:00	22708	2_60	2010	311	1900	30.05	54.48	24.56	0	7.68	158.6	1853	13.28
11/7/2010 20:00	22709	2_60	2010	311	2000	29.91	54.3	24.54	0	8.5	153.8	1913	13.31
11/7/2010 21:00	22710	2_60	2010	311	2100	28.72	54.88	24.54	0	8.5	150.5	2033	13.33
11/7/2010 22:00	22711	2_60	2010	311	2200	27.09	55.7	24.53	0	9.05	163.4	2124	13.33
11/7/2010 23:00	22712	2_60	2010	311	2300	41.47	46.8	24.52	0.001	6.69	297.2	2209	13.35
11/8/2010 0:00	22713	2_60	2010	312	0	44.34	44.97	24.51	0	2.935	300.3	2352	13.41
11/8/2010 1:00	22714	2_60	2010	312	100	46.21	44.02	24.49	0	2.697	84.8	23	13.45
11/8/2010 2:00	22715	2_60	2010	312	200	43.84	46.02	24.48	0	3.277	313	137	13.45
11/8/2010 3:00	22716	2_60	2010	312	300	47.75	44.52	24.46	0	3.789	52.17	251	13.45
11/8/2010 4:00	22717	2_60	2010	312	400	50.77	43.04	24.45	0	3.004	250	300	13.46
11/8/2010 5:00	22718	2_60	2010	312	500	49.53	43.1	24.44	0	3.482	315.4	458	13.48
11/8/2010 6:00	22719	2_60	2010	312	600	45.4	44.73	24.43	0	4.676	134.5	537	13.48
11/8/2010 7:00	22720	2_60	2010	312	700	40.05	47.18	24.41	5.911	8.23	162.6	634	13.48
11/8/2010 8:00	22721	2_60	2010	312	800	30.07	53.32	24.43	82.4	8.33	230.2	725	13.42
11/8/2010 9:00	22722	2_60	2010	312	900	28.27	55.85	24.42	353.7	8.81	145.6	848	13.37
11/8/2010 10:00	22723	2_60	2010	312	1000	21.64	60.33	24.41	525.9	14.92	160.4	912	13.28
11/8/2010 11:00	22724	2_60	2010	312	1100	21.97	60.37	24.38	430.3	11.4	158	1035	13.23
11/8/2010 12:00	22725	2_60	2010	312	1200	21.71	60.05	24.35	228.2	10.99	32.29	1157	13.21
11/8/2010 13:00	22726	2_60	2010	312	1300	22.21	60.54	24.32	256.1	11.06	156	1239	13.21
11/8/2010 14:00	22727	2_60	2010	312	1400	23.65	60.09	24.3	214.9	13.07	152.3	1355	13.2
11/8/2010 15:00	22728	2_60	2010	312	1500	26.01	59.13	24.28	114	21.71	163	1429	13.21
11/8/2010 16:00	22729	2_60	2010	312	1600	27.1	58.22	24.27	93.8	13.96	257	1508	13.23
11/8/2010 17:00	22730	2_60	2010	312	1700	26.68	58.56	24.23	59.25	12.87	124.9	1645	13.24
11/8/2010 18:00	22731	2_60	2010	312	1800	27.22	58.46	24.25	1.25	16.32	173.5	1733	13.26
11/8/2010 19:00	22732	2_60	2010	312	1900	31.28	57.56	24.25	0	16.25	164.1	1855	13.27
11/8/2010 20:00	22733	2_60	2010	312	2000	36.42	55.96	24.24	0	11.4	216.1	1933	13.27
11/8/2010 21:00	22734	2_60	2010	312	2100	60.48	50.69	24.28	0.012	10.75	253.9	2031	13.3
11/8/2010 22:00	22735	2_60	2010	312	2200	78.99	45.59	24.29	0.002	10.85	263.9	2136	13.36
11/8/2010 23:00	22736	2_60	2010	312	2300	77.82	41.73	24.31	0.002	12.7	245.9	2233	13.42

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
11/9/2010 0:00	22737	2_60	2010	313	0	2.370209	233.9371	48.7727	7.79	61.14	16.58	65.44	4.076	4.092	0.0162963
11/9/2010 1:00	22738	2_60	2010	313	100	2.829787	185.238	49.14149	-2.573	48.2	9.74	52.64	4.236	4.275	0.03832112
11/9/2010 2:00	22739	2_60	2010	313	200	5.673335	167.7943	9.815326	22.19	34.5	58.77	43.14	3.82	4.114	0.2932962
11/9/2010 3:00	22740	2_60	2010	313	300	3.306239	100.5133	19.85806	10.38	32.99	13.67	42.31	3.613	3.986	0.3732212
11/9/2010 4:00	22741	2_60	2010	313	400	2.520568	135.4231	41.04793	1.727	27.5	8.01	31.63	3.441	4.138	0.6968833
11/9/2010 5:00	22742	2_60	2010	313	500	3.241342	191.8355	50.44811	11.05	44.58	32.53	52.92	3.713	4.339	0.6254273
11/9/2010 6:00	22743	2_60	2010	313	600	3.888201	197.725	33.6724	8.87	60.14	31.65	67.72	3.848	4.047	0.1986535
11/9/2010 7:00	22744	2_60	2010	313	700	5.513458	218.0276	27.60177	10.47	55.12	42.18	64.31	2.175	2.319	0.1438568
11/9/2010 8:00	22745	2_60	2010	313	800	7.156229	233.5006	10.37006	33.29	47.87	86.5	62.61	1.377	1.658	0.2812226
11/9/2010 9:00	22746	2_60	2010	313	900	6.528906	237.3432	8.539429	22.16	46.48	66.88	57.46	2.166	2.017	-0.148229
11/9/2010 10:00	22747	2_60	2010	313	1000	5.696403	241.1822	9.648108	21.01	46.71	57.67	53.3	3.373	2.575	-0.7976871
11/9/2010 11:00	22748	2_60	2010	313	1100	4.34516	264.1808	22.54535	4.361	46.51	20.77	54.33	4.776	3.612	-1.16449
11/9/2010 12:00	22749	2_60	2010	313	1200	1.99617	77.25314	34.8164	3.208	18.64	-2.356	18.83	2.628	2.203	-0.4244902
11/9/2010 13:00	22750	2_60	2010	313	1300	2.071461	125.035	12.6203	-1.472	15.41	-1.012	17.7	2.999	2.458	-0.5410253
11/9/2010 14:00	22751	2_60	2010	313	1400	2.652294	118.6061	13.77478	-0.373	22.27	4.553	25.13	3.98	3.26	-0.7198662
11/9/2010 15:00	22752	2_60	2010	313	1500	1.806469	53.4914	29.55057	12.25	33.2	4.821	34.44	4.732	4.062	-0.6706527
11/9/2010 16:00	22753	2_60	2010	313	1600	4.414796	248.3052	36.80083	16.99	60.08	38.64	68.36	6.253	5.257	-0.9966482
11/9/2010 17:00	22754	2_60	2010	313	1700	3.579014	39.43375	22.68077	21.54	28.5	8.59	33.03	4.675	4.334	-0.340922
11/9/2010 18:00	22755	2_60	2010	313	1800	1.732576	151.2441	33.41265	1.697	12.31	7.093	15.35	2.248	3.328	1.079696
11/9/2010 19:00	22756	2_60	2010	313	1900	1.952733	122.003	11.9361	2.651	7.707	6.828	11.81	0.514	3.225	2.711919
11/9/2010 20:00	22757	2_60	2010	313	2000	2.897396	155.985	8.696107	8.03	9.97	22.95	15.37	0.22	2.702	2.482188
11/9/2010 21:00	22758	2_60	2010	313	2100	2.377517	159.8286	7.744788	5.649	11.05	13.86	17.37	0.035	2.534	2.498861
11/9/2010 22:00	22759	2_60	2010	313	2200	1.685125	169.8703	48.52479	0.428	25.51	8.31	29.58	0.52	2.159	1.638855
11/9/2010 23:00	22760	2_60	2010	313	2300	1.799448	71.76144	47.58647	5.537	15.7	3.889	16.47	-0.641	1.361	2.002123
11/10/2010 0:00	22761	2_60	2010	314	0	1.820304	288.7097	28.38021	1.585	14.2	0.307	10.47	-1.894	0.036	1.930432
11/10/2010 1:00	22762	2_60	2010	314	100	0.3938979	80.87197	36.34093	-0.272	7.52	-0.116	8.1	-1.68	-0.042	1.63854
11/10/2010 2:00	22763	2_60	2010	314	200	1.139679	130.796	30.3348	-1.597	17.12	-0.805	18.1	-1.836	-0.269	1.567141
11/10/2010 3:00	22764	2_60	2010	314	300	2.988593	140.9096	25.88906	6.444	19.67	8.02	24.22	-2.221	-0.876	1.345625
11/10/2010 4:00	22765	2_60	2010	314	400	0.9242126	239.8819	37.98693	1.631	10.9	2.547	10.38	-3.743	-2.12	1.623193
11/10/2010 5:00	22766	2_60	2010	314	500	0.4926277	165.3729	50.95814	-1.359	13.59	-0.941	13.22	-3.965	-2.085	1.879654
11/10/2010 6:00	22767	2_60	2010	314	600	0.5278425	217.2828	40.49435	2.448	12.44	2.545	12.72	-4.444	-2.776	1.667792
11/10/2010 7:00	22768	2_60	2010	314	700	0.6777418	291.8615	31.15137	0.186	3.455	-0.298	1.394	-4.65	-3.502	1.147741
11/10/2010 8:00	22769	2_60	2010	314	800	1.475719	195.0264	28.54505	3.43	12.27	7.331	15.97	-3.429	-2.941	0.4878572
11/10/2010 9:00	22770	2_60	2010	314	900	1.246942	328.2426	33.60122	4.682	12.02	2.785	11.46	-2.329	-2.645	-0.3160659
11/10/2010 10:00	22771	2_60	2010	314	1000	0.917187	282.8203	22.89906	10.77	31.72	10.38	29.19	-1.056	-1.718	-0.6613404
11/10/2010 11:00	22772	2_60	2010	314	1100	0.6160464	27.1834	50.31575	5.453	37.45	4.084	39.46	1.551	0.84	-0.7115498
11/10/2010 12:00	22773	2_60	2010	314	1200	2.423799	135.184	51.55052	-0.234	64.41	2.153	67.42	5.045	4.321	-0.7241399
11/10/2010 13:00	22774	2_60	2010	314	1300	3.375347	177.0602	33.01192	5.05	54.9	21.14	63.67	6.884	5.745	-1.139637
11/10/2010 14:00	22775	2_60	2010	314	1400	1.78426	176.2457	58.82334	1.283	39.77	8.42	42.17	6.733	5.922	-0.8103535
11/10/2010 15:00	22776	2_60	2010	314	1500	4.2635	243.2136	47.11804	11.18	50.7	37.75	66.69	5.649	5.253	-0.3956934
11/10/2010 16:00	22777	2_60	2010	314	1600	7.504899	226.4321	9.524233	26.19	58.89	86.8	70.84	1.574	1.399	-0.1751677
11/10/2010 17:00	22778	2_60	2010	314	1700	2.857368	325.4418	17.5277	9.04	22.21	6.742	28.92	1.066	0.754	-0.3115142
11/10/2010 18:00	22779	2_60	2010	314	1800	0.7246765	270.3481	29.89376	0.036	2.881	-0.298	2.871	0.472	0.386	-0.08677719
11/10/2010 19:00	22780	2_60	2010	314	1900	1.012953	108.9856	18.93297	-0.025	2.432	0.489	3.398	-0.175	0.616	0.7912716
11/10/2010 20:00	22781	2_60	2010	314	2000	0.9319854	195.164	34.28518	-0.175	1.799	0.384	3.391	-0.167	0.42	0.5867553
11/10/2010 21:00	22782	2_60	2010	314	2100	2.498031	294.8641	20.29062	10.53	12.98	8.74	12.69	-0.675	-0.728	-0.052806
11/10/2010 22:00	22783	2_60	2010	314	2200	0.9260396	248.8027	21.41591	-0.327	6.611	0.696	6.654	-0.403	-0.149	0.2540412
11/10/2010 23:00	22784	2_60	2010	314	2300	0.9638968	75.93179	20.46674	-0.304	4.441	0.182	5.078	-0.445	0.403	0.8479236
11/11/2010 0:00	22785	2_60	2010	315	0	0.5612064	148.7248	11.33782	-0.229	0.127	-0.162	0.474	-0.58	0.553	1.132138
11/11/2010 1:00	22786	2_60	2010	315	100	0.7996546	37.09229	21.80615	0.382	2.893	-0.091	1.298	-0.167	0.628	0.7955722
11/11/2010 2:00	22787	2_60	2010	315	200	0.9879885	281.644	16.33262	-0.366	2.674	-0.126	1.143	-0.417	0.143	0.5595359
11/11/2010 3:00	22788	2_60	2010	315	300	1.730018	313.2117	19.26149	8.76	15.1	5.51	14.29	-0.965	-0.195	0.7698975
11/11/2010 4:00	22789	2_60	2010	315	400	0.8419815	318.9029	38.05383	2.022	11	1.37	10.24	-0.625	-0.592	0.033336
11/11/2010 5:00	22790	2_60	2010	315	500	0.4908336	234.3815	43.70217	0.134	2.802	0.296	3.253	-0.701	-0.635	0.06624664
11/11/2010 6:00	22791	2_60	2010	315	600	1.588187	275.5856	12.36045	-2.945	8.4	1.214	7.735	-0.837	-0.704	0.1330364
11/11/2010 7:00	22792	2_60	2010	315	700	0.6668798	339.1833	18.76398	-0.038	3.816	0.127	2.45	-1.044	-1.068	-0.02399432
11/11/2010 8:00	22793	2_60	2010	315	800	0.4977444	297.99	8.251425	-0.274	0.133	-0.262	0.104	-1.115	-1.41	-0.2946691
11/11/2010 9:00	22794	2_60	2010	315	900	0.5253112	8.605171	20.66581	1.582	11.18	2.059	11.55	-0.702	-1.097	-0.3950122
11/11/2010 10:00	22795	2_60	2010	315	1000	1.212582	239.0892	34.18495	6.541	29.61	8.65	31.15	1.036	0.41	-0.6262657
11/11/2010 11:00	22796	2_60	2010	315	1100	1.361317	294.5903	20.24048	1.698	31.26	0.99	33.07	2.1	1.464	-0.6357948
11/11/2010 12:00	22797	2_60	2010	315	1200	1.34721	283.3426	22.01902	-3.324	40.46	-2.306	40.88	3.382	2.548	-0.8345255
11/11/2010 13:00	22798	2_60	2010	315	1300	1.923405	284.2299	30.91584	5.051	46.03	6.151	48.52	4.638	3.817	-0.8206623
11/11/2010 14:00	22799	2_60	2010	315	1400	4.088425	273.8572	18.64	1.707	38.92	18.38	45.92	5.076	4.078	-0.9978062
11/11/2010 15:00	22800	2_60	2010	315	1500	3.797186	301.3009	18.45935	17.75	34.38	17.46	39.76	4.977	4.215	-0.762518
11/11/2010 16:00	22801	2_60	2010	315	1600	4.189142	331.9562	12.06653	27	27.28	18.59	32.97	4.764	4.351	-0.4128717
11/11/2010 17:00	22802	2_60	2010	315	1700	5.863492	335.7161	9.345188	32.14	30.03	19.15	38.48	4.1	3.936	-0.1645186
11/11/2010 18:00	22803	2_60	2010	315	1800	3.759074	303.5385	14.59163	18.99	28.18	17.97	26.99	2.375	2.998	0.6231654
11/11/2010 19:00	22804	2_60	2010	315	1900	3.341164	295.4995	8.871474	16.97	21.67	15.54	23.3	2.119	2.95	0.8312441
11/11/2010 20:00	22805	2_60	2010	315	2000	2.392988	300.8345	9.323688	7.207	12.2	5.591	11.93	0.83	2.464	1.63408
11/11/2010 21:00	22806	2_60	2010	315	2100	2.026006	279.7353	14.91969	4.143	17.53	7.384	18.31	-0.201	1.957	2.158241
11/11/2010 22:00	22807	2_60	2010	315	2200	1.287878	274.0093	15.75546	0.03	7.013	1.562	7.002	-1.224	1.542	2.765198
11/11/2010 23:00	22808	2_60	2010	315	2300	1.413711	273.8083	8.072699	-0.177	5.287	1.996	6.048	-1.462	1.213	2.675553

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	RH_Avg Avg	RHTemp_Avg DegF Avg	BPinHg inHg Smp	SolarRad_Avg W/m² Avg	GustSpeed m/s Smp	GustDir Deg Smp	GustTime Smp	BatteryV_Avg Volts Avg
11/9/2010 0:00	22737	2_60	2010	313	0	78.78	39.57	24.31	0.001	8.23	233.1	2302	13.47
11/9/2010 1:00	22738	2_60	2010	313	100	77.01	39.96	24.31	0.001	7.407	192.1	28	13.49
11/9/2010 2:00	22739	2_60	2010	313	200	79.31	39.23	24.31	0.002	10.34	163.7	147	13.51
11/9/2010 3:00	22740	2_60	2010	313	300	78.35	38.91	24.29	0.001	6.588	149.8	200	13.51
11/9/2010 4:00	22741	2_60	2010	313	400	76.04	38.61	24.28	0.001	5.871	195	358	13.52
11/9/2010 5:00	22742	2_60	2010	313	500	66.68	39.07	24.29	0.001	10.34	185.3	409	13.52
11/9/2010 6:00	22743	2_60	2010	313	600	63.08	39.26	24.3	0.001	10.72	178	559	13.52
11/9/2010 7:00	22744	2_60	2010	313	700	78.11	36.37	24.32	0.453	11.26	179.5	600	13.53
11/9/2010 8:00	22745	2_60	2010	313	800	80	34.94	24.35	21.67	12.83	230.1	712	13.57
11/9/2010 9:00	22746	2_60	2010	313	900	78.13	36.34	24.36	172.1	10	225.4	801	13.58
11/9/2010 10:00	22747	2_60	2010	313	1000	72.99	38.38	24.37	403.6	9.18	245.7	914	13.55
11/9/2010 11:00	22748	2_60	2010	313	1100	64.86	41.38	24.38	572.5	8.5	259.7	1048	13.48
11/9/2010 12:00	22749	2_60	2010	313	1200	78.18	37.32	24.39	94.6	5.461	49.14	1108	13.45
11/9/2010 13:00	22750	2_60	2010	313	1300	72.14	37.76	24.38	173	3.277	104.7	1253	13.49
11/9/2010 14:00	22751	2_60	2010	313	1400	69.61	39.52	24.38	180.2	4.164	122.3	1304	13.48
11/9/2010 15:00	22752	2_60	2010	313	1500	61.52	41.39	24.38	261	3.959	65.62	1459	13.47
11/9/2010 16:00	22753	2_60	2010	313	1600	40.09	44.01	24.39	363.8	7.885	227.9	1523	13.4
11/9/2010 17:00	22754	2_60	2010	313	1700	51.19	41.02	24.41	59.89	7.919	33.12	1627	13.39
11/9/2010 18:00	22755	2_60	2010	313	1800	63.6	36.6	24.42	2.295	3.277	170.6	1743	13.46
11/9/2010 19:00	22756	2_60	2010	313	1900	70.71	33.35	24.43	0	3.14	134.8	1808	13.54
11/9/2010 20:00	22757	2_60	2010	313	2000	71.87	32.68	24.43	0	4.062	141.4	1927	13.6
11/9/2010 21:00	22758	2_60	2010	313	2100	71.1	32.55	24.43	0	3.379	177	2033	13.63
11/9/2010 22:00	22759	2_60	2010	313	2200	65.14	33.14	24.43	0	3.447	162.7	2120	13.65
11/9/2010 23:00	22760	2_60	2010	313	2300	68.6	31.57	24.43	0	3.994	304.7	2245	13.66
11/10/2010 0:00	22761	2_60	2010	314	0	79.37	29.06	24.44	0	3.413	301.8	2300	13.69
11/10/2010 1:00	22762	2_60	2010	314	100	75.56	29.4	24.44	0	1.604	167.5	54	13.71
11/10/2010 2:00	22763	2_60	2010	314	200	75.15	29.23	24.43	0	3.345	102.9	155	13.72
11/10/2010 3:00	22764	2_60	2010	314	300	76.1	28.5	24.43	0	6.007	103.2	207	13.73
11/10/2010 4:00	22765	2_60	2010	314	400	82	25.84	24.43	0	2.116	156.7	304	13.74
11/10/2010 5:00	22766	2_60	2010	314	500	83.8	25.41	24.43	0	2.355	186.8	443	13.76
11/10/2010 6:00	22767	2_60	2010	314	600	84.4	24.32	24.43	0	1.809	185.1	534	13.78
11/10/2010 7:00	22768	2_60	2010	314	700	83.4	23.81	24.44	1.158	2.014	292.2	658	13.79
11/10/2010 8:00	22769	2_60	2010	314	800	78.68	26.14	24.44	42.13	4.062	154.5	750	13.77
11/10/2010 9:00	22770	2_60	2010	314	900	74.49	29.51	24.45	229.9	3.311	294.4	859	13.74
11/10/2010 10:00	22771	2_60	2010	314	1000	64.81	32.41	24.44	382.6	2.901	291	900	13.68
11/10/2010 11:00	22772	2_60	2010	314	1100	50.49	37.14	24.42	498.8	2.15	180.4	1000	13.59
11/10/2010 12:00	22773	2_60	2010	314	1200	37.79	41.92	24.38	502.6	8.06	153	1134	13.49
11/10/2010 13:00	22774	2_60	2010	314	1300	30.42	45.35	24.35	594.4	7.851	141.1	1202	13.41
11/10/2010 14:00	22775	2_60	2010	314	1400	32.51	45.01	24.35	290.2	6.758	180.2	1300	13.35
11/10/2010 15:00	22776	2_60	2010	314	1500	41.03	42.71	24.38	73.36	12.12	243.5	1454	13.34
11/10/2010 16:00	22777	2_60	2010	314	1600	77.08	35.06	24.4	34.93	15.02	199.4	1509	13.46
11/10/2010 17:00	22778	2_60	2010	314	1700	83.2	34.21	24.41	22.76	5.666	262.3	1601	13.52
11/10/2010 18:00	22779	2_60	2010	314	1800	86.8	33.23	24.42	1.073	2.185	2.58	1708	13.55
11/10/2010 19:00	22780	2_60	2010	314	1900	91	32.12	24.42	0	2.185	133	1832	13.57
11/10/2010 20:00	22781	2_60	2010	314	2000	90.3	32.01	24.42	0	1.775	178.8	1938	13.59
11/10/2010 21:00	22782	2_60	2010	314	2100	94.3	31.25	24.43	0.001	4.369	307.8	2018	13.6
11/10/2010 22:00	22783	2_60	2010	314	2200	94	31.47	24.44	0	2.833	291	2101	13.61
11/10/2010 23:00	22784	2_60	2010	314	2300	91.2	31.61	24.44	0	1.843	190.9	2201	13.61
11/11/2010 0:00	22785	2_60	2010	315	0	91.2	31.25	24.45	0	1.365	132.9	2301	13.62
11/11/2010 1:00	22786	2_60	2010	315	100	89	32.19	24.46	0	2.048	300.5	55	13.62
11/11/2010 2:00	22787	2_60	2010	315	200	91.3	31.56	24.47	0	1.707	299.8	158	13.61
11/11/2010 3:00	22788	2_60	2010	315	300	90.9	30.69	24.49	0	2.935	293.2	215	13.62
11/11/2010 4:00	22789	2_60	2010	315	400	90.2	31.23	24.5	0	1.946	330.7	333	13.62
11/11/2010 5:00	22790	2_60	2010	315	500	91.3	31.09	24.52	0	1.536	252.6	421	13.61
11/11/2010 6:00	22791	2_60	2010	315	600	92.5	30.84	24.54	0	2.765	290.4	540	13.61
11/11/2010 7:00	22792	2_60	2010	315	700	93.7	30.53	24.56	0.287	2.253	297.8	600	13.61
11/11/2010 8:00	22793	2_60	2010	315	800	95.2	30.52	24.59	17.86	1.229	311.8	700	13.61
11/11/2010 9:00	22794	2_60	2010	315	900	92.6	31.86	24.61	120	1.468	182.6	859	13.6
11/11/2010 10:00	22795	2_60	2010	315	1000	78.46	35.33	24.63	260.8	4.096	298	929	13.58
11/11/2010 11:00	22796	2_60	2010	315	1100	72.17	36.99	24.64	295	3.106	297.6	1040	13.53
11/11/2010 12:00	22797	2_60	2010	315	1200	61.45	39.91	24.64	477.9	3.891	259.1	1139	13.48
11/11/2010 13:00	22798	2_60	2010	315	1300	52.98	41.73	24.64	408.5	4.608	289.2	1251	13.42
11/11/2010 14:00	22799	2_60	2010	315	1400	55.64	41.78	24.65	329.9	7.373	266.2	1326	13.4
11/11/2010 15:00	22800	2_60	2010	315	1500	53.87	41.47	24.66	186.9	7.339	323.6	1437	13.4
11/11/2010 16:00	22801	2_60	2010	315	1600	49.06	41.05	24.68	107.6	7.885	342	1517	13.42
11/11/2010 17:00	22802	2_60	2010	315	1700	48.85	39.79	24.7	43.83	9.49	327	1626	13.45
11/11/2010 18:00	22803	2_60	2010	315	1800	53.4	36.71	24.73	2.003	7.509	347.8	1704	13.5
11/11/2010 19:00	22804	2_60	2010	315	1900	53.7	36.17	24.75	0	6.895	299.7	1814	13.54
11/11/2010 20:00	22805	2_60	2010	315	2000	57.44	33.95	24.76	0	4.403	297.2	1940	13.58
11/11/2010 21:00	22806	2_60	2010	315	2100	63.13	32.16	24.78	0	4.608	303.9	2014	13.62
11/11/2010 22:00	22807	2_60	2010	315	2200	67.84	30.61	24.79	0	2.423	296.3	2129	13.66
11/11/2010 23:00	22808	2_60	2010	315	2300	68.25	30.13	24.78	0	2.389	298.8	2218	13.69

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/12/2010 0:00	22809	2_60	2010	316	0	1.603328	269.3058	21.07728	3.733	8.83	6.339	9.58	-2.171	0.876	3.04693
11/12/2010 1:00	22810	2_60	2010	316	100	0.6867931	243.1094	20.59813	-0.242	0.751	-0.191	1.143	-3.139	0.253	3.391683
11/12/2010 2:00	22811	2_60	2010	316	200	1.301014	203.5991	45.09661	1.126	12.87	1.541	15.02	-3.203	-0.056	3.146729
11/12/2010 3:00	22812	2_60	2010	316	300	1.310228	155.9419	24.15029	3.082	9.18	7.475	13.11	-3.602	-0.825	2.776881
11/12/2010 4:00	22813	2_60	2010	316	400	1.005142	160.4171	34.15158	1.195	4.693	2.423	6.672	-3.901	-1.032	2.868408
11/12/2010 5:00	22814	2_60	2010	316	500	0.3663352	243.8571	35.66194	0.096	4.374	-0.434	4.368	-4.532	-1.681	2.851015
11/12/2010 6:00	22815	2_60	2010	316	600	1.349626	145.067	16.26526	0.688	13.09	3.152	14	-4.849	-1.794	3.05424
11/12/2010 7:00	22816	2_60	2010	316	700	1.487732	236.6036	41.34746	1.481	12.01	5.264	14.97	-4.917	-2.562	2.354802
11/12/2010 8:00	22817	2_60	2010	316	800	1.328608	226.3299	34.81989	3.34	13	5.805	14.37	-4.454	-3.276	1.178663
11/12/2010 9:00	22818	2_60	2010	316	900	1.253341	300.5974	16.01653	4.257	15.86	3.722	14.27	-3.234	-3.635	-0.4006523
11/12/2010 10:00	22819	2_60	2010	316	1000	0.5488347	330.548	40.50028	-0.023	32.74	-1.781	33.61	-0.717	-1.345	-0.6281457
11/12/2010 11:00	22820	2_60	2010	316	1100	0.6980524	296.3103	49.18303	27.31	44.82	28.17	46.15	1.539	0.862	-0.6771514
11/12/2010 12:00	22821	2_60	2010	316	1200	1.78477	324.2318	39.73406	12.2	47.1	8.55	49.7	3.276	2.367	-0.9090497
11/12/2010 13:00	22822	2_60	2010	316	1300	1.433935	264.9464	43.70176	17.55	53.89	21.31	54.59	4.33	3.461	-0.8693975
11/12/2010 14:00	22823	2_60	2010	316	1400	1.810369	250.658	52.73389	16.09	51.89	22.06	54.41	5.313	4.461	-0.852261
11/12/2010 15:00	22824	2_60	2010	316	1500	1.829628	352.4599	41.31891	5.906	42.58	4.079	45	6.149	5.271	-0.8773199
11/12/2010 16:00	22825	2_60	2010	316	1600	2.253446	211.4883	18.03209	4.235	23.92	19.05	27.28	5.61	5.449	-0.1612096
11/12/2010 17:00	22826	2_60	2010	316	1700	1.423296	230.7639	12.61414	1.441	5.405	6.602	9.7	1.524	5.422	3.897726
11/12/2010 18:00	22827	2_60	2010	316	1800	4.334231	251.9036	22.29871	24.47	25.6	50.96	36.97	1.88	4.399	2.518611
11/12/2010 19:00	22828	2_60	2010	316	1900	3.000733	271.048	16.47643	6.753	21.74	21.18	24.22	1.21	3.66	2.450771
11/12/2010 20:00	22829	2_60	2010	316	2000	2.273673	253.5747	24.12009	12.64	17.35	24.76	21.8	-0.181	3.297	3.477779
11/12/2010 21:00	22830	2_60	2010	316	2100	1.027604	165.2988	18.56829	0.844	5.646	1.767	5.761	-1.018	2.56	3.577622
11/12/2010 22:00	22831	2_60	2010	316	2200	1.681056	157.4452	14.25392	2.287	12.11	6.444	13.62	-0.686	1.9	2.586017
11/12/2010 23:00	22832	2_60	2010	316	2300	2.502819	140.1657	12.67081	4.8	14.29	13.24	15.88	-1.138	1.293	2.430849
11/13/2010 0:00	22833	2_60	2010	317	0	1.493499	141.9167	19.99211	1.437	14.22	3.885	15.08	-1.918	0.868	2.786304
11/13/2010 1:00	22834	2_60	2010	317	100	1.29837	179.6944	34.87333	1.884	11.67	5.309	11.63	-3.184	-0.074	3.109735
11/13/2010 2:00	22835	2_60	2010	317	200	0.8045513	234.8934	37.75932	2.598	19.67	3.884	17.18	-3.437	-1.009	2.428907
11/13/2010 3:00	22836	2_60	2010	317	300	0.5967365	269.4823	28.93635	1.041	5.077	0.878	4.276	-3.349	-1.448	1.901632
11/13/2010 4:00	22837	2_60	2010	317	400	2.465309	285.2541	6.943283	7.069	21.86	12.43	17.08	-5.454	-3.488	1.965634
11/13/2010 5:00	22838	2_60	2010	317	500	0.5249722	4.471355	33.07843	0.193	3.615	-0.235	0.477	-5.202	-3.685	1.517888
11/13/2010 6:00	22839	2_60	2010	317	600	0.6780837	33.07253	25.31144	0.301	4.183	-0.446	2.242	-5.386	-3.28	2.105871
11/13/2010 7:00	22840	2_60	2010	317	700	0.7124177	263.6431	29.55586	1.136	5.698	0.285	3.385	-5.178	-3.528	1.650075
11/13/2010 8:00	22841	2_60	2010	317	800	0.5590159	296.7159	66.3714	-0.522	8.8	-0.093	6.553	-5.272	-3.925	1.346348
11/13/2010 9:00	22842	2_60	2010	317	900	0.7153769	288.7015	17.36997	0.955	15.68	1.4	11.82	-3.936	-4.559	-0.6222862
11/13/2010 10:00	22843	2_60	2010	317	1000	0.7745385	306.782	25.52191	5.121	34.29	4.454	31.65	-1.184	-1.9	-0.7163137
11/13/2010 11:00	22844	2_60	2010	317	1100	0.8568294	321.6549	39.0955	0.68	39.85	-0.385	39.86	0.837	0.079	-0.75798
11/13/2010 12:00	22845	2_60	2010	317	1200	1.052213	308.6058	49.46749	-2.622	47.3	-3.334	47.93	3.365	2.58	-0.7847269
11/13/2010 13:00	22846	2_60	2010	317	1300	1.276098	263.9147	65.16189	14.01	39.63	14.97	39.62	4.771	3.996	-0.7752941
11/13/2010 14:00	22847	2_60	2010	317	1400	1.831135	291.6338	31.32687	0.129	46.22	1.753	47.92	5.601	4.788	-0.8129768
11/13/2010 15:00	22848	2_60	2010	317	1500	1.199753	256.4427	22.25434	8.69	35.35	9.58	34.99	5.487	5.036	-0.450157
11/13/2010 16:00	22849	2_60	2010	317	1600	1.143773	251.4387	24.36838	2.28	14.96	5.558	14.41	5.111	5.076	-0.03493892
11/13/2010 17:00	22850	2_60	2010	317	1700	2.663382	245.9643	13.88518	10.98	15.22	23.94	23.91	1.752	4.74	2.987915
11/13/2010 18:00	22851	2_60	2010	317	1800	4.368072	244.2588	28.05332	22.71	25.61	54.2	37.35	2.566	3.68	1.11363
11/13/2010 19:00	22852	2_60	2010	317	1900	1.190427	316.1644	47.96345	1.327	20.9	1.466	19.93	2.039	3.1	1.060989
11/13/2010 20:00	22853	2_60	2010	317	2000	1.200093	272.6933	23.31023	3.003	12.6	7.128	14.53	0.372	2.9	2.527917
11/13/2010 21:00	22854	2_60	2010	317	2100	1.296323	262.7166	10.7272	-0.445	8.22	4.983	9.14	-0.471	2.624	3.095007
11/13/2010 22:00	22855	2_60	2010	317	2200	1.513867	255.5515	22.11266	2.084	10.39	8.25	11.38	-0.993	2.463	3.455373
11/13/2010 23:00	22856	2_60	2010	317	2300	1.241878	189.6925	19.69665	3.781	7.863	5.727	11.29	-1.901	1.523	3.423904
11/14/2010 0:00	22857	2_60	2010	318	0	2.725733	147.2244	11.98554	7.709	11.52	18.73	18.12	-2.127	0.809	2.935827
11/14/2010 1:00	22858	2_60	2010	318	100	1.030908	200.4157	19.7376	3.417	8.13	6.061	11.48	-2.699	0.751	3.449924
11/14/2010 2:00	22859	2_60	2010	318	200	1.216815	203.6767	39.01016	4.39	8.64	9.23	13.17	-3.046	0.001	3.046825
11/14/2010 3:00	22860	2_60	2010	318	300	2.087361	286.8579	25.4768	4.183	17.78	3.761	12.19	-4.071	-2.351	1.720086
11/14/2010 4:00	22861	2_60	2010	318	400	0.7973499	109.1003	40.30486	1.414	8.7	2.044	7.717	-4.511	-2.466	2.045176
11/14/2010 5:00	22862	2_60	2010	318	500	1.018881	137.0902	43.44146	2.516	8.51	1.603	6.857	-5.303	-2.345	2.958907
11/14/2010 6:00	22863	2_60	2010	318	600	1.849734	239.1556	39.17833	1.694	15.81	5.014	12.27	-5.158	-2.857	2.300876
11/14/2010 7:00	22864	2_60	2010	318	700	1.154638	289.2928	16.72208	2.952	9.53	3.445	8.91	-6.353	-5.032	1.321232
11/14/2010 8:00	22865	2_60	2010	318	800	0.3436643	246.0636	47.53334	0.283	3.289	-0.197	1.623	-5.297	-4.094	1.202849
11/14/2010 9:00	22866	2_60	2010	318	900	1.464771	297.3261	15.2025	-0.48	18.64	2.102	15.35	-3.204	-3.679	-0.4750715
11/14/2010 10:00	22867	2_60	2010	318	1000	0.4533762	347.5746	44.59115	6.232	41.65	5.812	39.49	-0.795	-1.346	-0.5507914
11/14/2010 11:00	22868	2_60	2010	318	1100	0.8721908	316.4631	33.87389	8.12	46.81	5.817	43.64	1.231	0.587	-0.6444039
11/14/2010 12:00	22869	2_60	2010	318	1200	0.7776126	325.6129	52.90671	12.39	51.22	12	49.2	3.611	2.858	-0.7526018
11/14/2010 13:00	22870	2_60	2010	318	1300	2.319899	311.8041	21.05223	12.16	45	8.18	47.37	5.197	4.38	-0.8169827
11/14/2010 14:00	22871	2_60	2010	318	1400	2.574639	311.296	23.9774	12.2	44.51	6.793	48.44	6.942	5.96	-0.9825476
11/14/2010 15:00	22872	2_60	2010	318	1500	4.526508	268.279	17.36116	6.93	40.74	26.87	45.72	7.534	6.477	-1.057774
11/14/2010 16:00	22873	2_60	2010	318	1600	5.365374	245.7431	10.16051	15.45	31.36	48.88	37.38	6.832	6.217	-0.6153665
11/14/2010 17:00	22874	2_60	2010	318	1700	6.034869	238.8793	6.750356	17.37	30.17	60.13	35.44	5.093	5.584	0.4908206
11/14/2010 18:00	22875	2_60	2010	318	1800	5.635877	236.062	42.43935	26.45	31.13	71.93	41.41	3.819	4.479	0.6606754
11/14/2010 19:00	22876	2_60	2010	318	1900	2.297844	240.3195	62.4679	22.43	31.12	35.78	40.17	2.629	3.807	1.178301
11/14/2010 20:00	22877	2_60	2010	318	2000	1.286308	188.179	20.75655	2.614	8.34	5.15	11.47	0.167	3.496	3.329536
11/14/2010 21:00	22878	2_60	2010	318	2100	1.787471	195.847	12.23607	2.837	7.005	6.122	9.86	0.044	3.068	3.023547
11/14/2010 22:00	22879	2_60	2010	318	2200	1.898488	202.3541	8.660647	6.729	10.54	13.42	18.45	-0.664	2.742	3.406392
11/14/2010 23:00	22880	2_60	2010	318	2300	2.279838	158.2512	39.62309	13.57	24.64	22.12	30.71	-0.022	2.222	2.243552

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	RH_Avg Avg	RHTemp_Avg DegF Avg	BPinHg inHg Smp	SolarRad_Avg W/m² Avg	GustSpeed m/s Smp	GustDir Deg Smp	GustTime Smp	BatteryV_Avg Volts Avg
11/12/2010 0:00	22809	2_60	2010	316	0	71.94	28.76	24.79	0	2.697	293.1	2330	13.71
11/12/2010 1:00	22810	2_60	2010	316	100	77.17	26.9	24.78	0	1.229	229.9	44	13.73
11/12/2010 2:00	22811	2_60	2010	316	200	75.74	26.81	24.79	0	3.686	58.01	139	13.75
11/12/2010 3:00	22812	2_60	2010	316	300	76.6	26.06	24.79	0	2.321	124.4	240	13.76
11/12/2010 4:00	22813	2_60	2010	316	400	76.76	25.47	24.79	0	2.458	150.1	327	13.77
11/12/2010 5:00	22814	2_60	2010	316	500	77.75	24.56	24.8	0	1.161	232.9	419	13.78
11/12/2010 6:00	22815	2_60	2010	316	600	78.82	23.83	24.82	0	3.721	142.7	530	13.8
11/12/2010 7:00	22816	2_60	2010	316	700	78.27	23.74	24.82	1.208	4.847	128.9	659	13.81
11/12/2010 8:00	22817	2_60	2010	316	800	76.56	25.26	24.84	75.14	4.506	127.8	700	13.8
11/12/2010 9:00	22818	2_60	2010	316	900	74.87	28.29	24.86	250.9	2.082	267.8	800	13.76
11/12/2010 10:00	22819	2_60	2010	316	1000	57.34	33.12	24.85	411.2	2.458	319.3	901	13.68
11/12/2010 11:00	22820	2_60	2010	316	1100	47.26	37.19	24.84	529.2	2.355	353.6	1000	13.56
11/12/2010 12:00	22821	2_60	2010	316	1200	36.8	39.68	24.82	588.4	4.335	315.3	1113	13.49
11/12/2010 13:00	22822	2_60	2010	316	1300	32.99	42.01	24.8	587.9	4.062	252.6	1233	13.41
11/12/2010 14:00	22823	2_60	2010	316	1400	31.28	43.4	24.79	533.8	4.54	232.5	1352	13.35
11/12/2010 15:00	22824	2_60	2010	316	1500	29.38	44.4	24.77	394.4	5.052	297.4	1426	13.32
11/12/2010 16:00	22825	2_60	2010	316	1600	32.8	43.28	24.77	246.4	3.618	203.5	1506	13.31
11/12/2010 17:00	22826	2_60	2010	316	1700	50.2	35.28	24.77	15.41	2.662	271.1	1600	13.39
11/12/2010 18:00	22827	2_60	2010	316	1800	53.01	35.81	24.78	1.139	7.27	243.8	1741	13.5
11/12/2010 19:00	22828	2_60	2010	316	1900	54.08	34.75	24.79	0	4.54	270.8	1832	13.56
11/12/2010 20:00	22829	2_60	2010	316	2000	58.87	32.52	24.8	0	3.994	244	1932	13.61
11/12/2010 21:00	22830	2_60	2010	316	2100	63.55	30.65	24.8	0	2.116	173.5	2039	13.65
11/12/2010 22:00	22831	2_60	2010	316	2200	60.26	31.29	24.8	0	3.857	129.1	2148	13.67
11/12/2010 23:00	22832	2_60	2010	316	2300	62.19	30.45	24.81	0	4.062	127.6	2244	13.69
11/13/2010 0:00	22833	2_60	2010	317	0	66.48	29.08	24.81	0	3.311	107.8	2346	13.7
11/13/2010 1:00	22834	2_60	2010	317	100	73.37	26.75	24.81	0	3.345	131.3	53	13.72
11/13/2010 2:00	22835	2_60	2010	317	200	73.82	26.36	24.81	0	1.673	227.1	136	13.74
11/13/2010 3:00	22836	2_60	2010	317	300	72.63	26.42	24.8	0	1.399	251.6	219	13.76
11/13/2010 4:00	22837	2_60	2010	317	400	82	22.76	24.8	0	4.949	299.3	314	13.77
11/13/2010 5:00	22838	2_60	2010	317	500	80.7	23	24.79	0	1.707	290.4	400	13.8
11/13/2010 6:00	22839	2_60	2010	317	600	81.1	22.65	24.79	0	1.468	88.4	503	13.81
11/13/2010 7:00	22840	2_60	2010	317	700	79.17	23.27	24.78	1.063	1.399	268.6	637	13.82
11/13/2010 8:00	22841	2_60	2010	317	800	80.4	23.58	24.78	69.72	1.911	288.2	756	13.82
11/13/2010 9:00	22842	2_60	2010	317	900	71.41	27.77	24.77	249.2	2.56	305.4	802	13.78
11/13/2010 10:00	22843	2_60	2010	317	1000	57.83	32.56	24.76	407.3	2.731	293.2	948	13.7
11/13/2010 11:00	22844	2_60	2010	317	1100	51.33	35.72	24.74	522.7	2.492	305.1	1002	13.6
11/13/2010 12:00	22845	2_60	2010	317	1200	43.65	40.18	24.7	568.9	3.379	300.9	1151	13.49
11/13/2010 13:00	22846	2_60	2010	317	1300	41.23	41.77	24.68	359.8	3.516	20.71	1233	13.42
11/13/2010 14:00	22847	2_60	2010	317	1400	35.65	43.64	24.65	466.7	4.198	336.4	1356	13.38
11/13/2010 15:00	22848	2_60	2010	317	1500	37.91	43.16	24.63	207.6	3.106	325	1404	13.34
11/13/2010 16:00	22849	2_60	2010	317	1600	40.72	42.98	24.61	189.2	2.731	219	1551	13.37
11/13/2010 17:00	22850	2_60	2010	317	1700	56.33	35.61	24.6	15.48	6.007	239.8	1659	13.42
11/13/2010 18:00	22851	2_60	2010	317	1800	50.31	37.03	24.61	0.721	7.305	242.5	1720	13.5
11/13/2010 19:00	22852	2_60	2010	317	1900	52.06	35.92	24.62	0	2.97	225.5	1857	13.55
11/13/2010 20:00	22853	2_60	2010	317	2000	59.06	33.37	24.62	0	3.174	242	1909	13.59
11/13/2010 21:00	22854	2_60	2010	317	2100	62.67	31.7	24.62	0	3.038	246.8	2059	13.63
11/13/2010 22:00	22855	2_60	2010	317	2200	65.16	30.79	24.62	0	3.618	257.9	2101	13.66
11/13/2010 23:00	22856	2_60	2010	317	2300	69.56	29.13	24.61	0	2.219	222.4	2238	13.68
11/14/2010 0:00	22857	2_60	2010	318	0	70.59	28.6	24.61	0	5.086	127.8	2324	13.71
11/14/2010 1:00	22858	2_60	2010	318	100	72.34	27.76	24.6	0	2.355	199.8	57	13.72
11/14/2010 2:00	22859	2_60	2010	318	200	73.61	27.28	24.59	0	2.219	196.5	100	13.74
11/14/2010 3:00	22860	2_60	2010	318	300	77.31	25.31	24.6	0	4.062	293.5	224	13.75
11/14/2010 4:00	22861	2_60	2010	318	400	79.79	24.26	24.59	0	3.243	293.8	300	13.77
11/14/2010 5:00	22862	2_60	2010	318	500	81.2	23.06	24.57	0	2.867	69.33	438	13.79
11/14/2010 6:00	22863	2_60	2010	318	600	78.87	23.49	24.58	0	3.345	290.6	555	13.8
11/14/2010 7:00	22864	2_60	2010	318	700	84	20.98	24.57	1.107	2.697	288.3	604	13.81
11/14/2010 8:00	22865	2_60	2010	318	800	79.77	23.9	24.58	73.59	1.195	301.9	734	13.82
11/14/2010 9:00	22866	2_60	2010	318	900	69.73	28.41	24.59	244.1	3.038	294.4	810	13.77
11/14/2010 10:00	22867	2_60	2010	318	1000	56.89	33.41	24.58	363.8	1.741	337.1	918	13.69
11/14/2010 11:00	22868	2_60	2010	318	1100	51.78	36.31	24.56	463.3	3.072	346.6	1018	13.59
11/14/2010 12:00	22869	2_60	2010	318	1200	44.17	40.77	24.51	515.3	3.243	311.8	1159	13.49
11/14/2010 13:00	22870	2_60	2010	318	1300	39.39	42.98	24.48	561.5	5.052	348.9	1215	13.41
11/14/2010 14:00	22871	2_60	2010	318	1400	32.69	46.17	24.46	535.5	5.734	288.9	1353	13.33
11/14/2010 15:00	22872	2_60	2010	318	1500	33.31	46.57	24.46	367.1	7.817	278.5	1420	13.3
11/14/2010 16:00	22873	2_60	2010	318	1600	37.02	44.98	24.44	224.3	7.885	238.6	1559	13.32
11/14/2010 17:00	22874	2_60	2010	318	1700	42.79	41.63	24.43	14.89	7.953	241.1	1614	13.38
11/14/2010 18:00	22875	2_60	2010	318	1800	49.81	39.37	24.44	0.958	9.42	235.4	1736	13.45
11/14/2010 19:00	22876	2_60	2010	318	1900	55.33	37.23	24.43	0	5.837	234.2	1822	13.51
11/14/2010 20:00	22877	2_60	2010	318	2000	65.11	32.86	24.43	0	2.253	202.6	1957	13.56
11/14/2010 21:00	22878	2_60	2010	318	2100	65.83	32.6	24.43	0	3.209	192.3	2022	13.61
11/14/2010 22:00	22879	2_60	2010	318	2200	69.89	31.32	24.42	0	4.233	192.6	2156	13.64
11/14/2010 23:00	22880	2_60	2010	318	2300	67.99	32.34	24.41	0	4.164	178.9	2231	13.66

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/15/2010 0:00	22881	2_60	2010	319	0	0.8542081	306.7213	49.85431	1.257	8.02	0.154	5.606	0.127	1.911	1.783346
11/15/2010 1:00	22882	2_60	2010	319	100	1.296325	98.32613	23.75968	2.246	10.99	1.152	9.14	0.542	2.108	1.566396
11/15/2010 2:00	22883	2_60	2010	319	200	1.063591	291.1746	20.47629	1.289	8.28	1.42	6.663	-0.105	0.957	1.062072
11/15/2010 3:00	22884	2_60	2010	319	300	1.299765	249.2233	30.46077	4.153	10.28	2.261	7.675	-0.071	1.182	1.253109
11/15/2010 4:00	22885	2_60	2010	319	400	2.673855	124.2132	26.33653	3.46	20.56	11.78	24.83	-0.893	0.812	1.705668
11/15/2010 5:00	22886	2_60	2010	319	500	1.597774	205.3873	44.07793	4.71	9.34	6.909	13.65	-1.282	0.732	2.013752
11/15/2010 6:00	22887	2_60	2010	319	600	3.168597	303.8643	23.21386	15.88	21.83	13.71	22.76	-2.425	-1.603	0.822712
11/15/2010 7:00	22888	2_60	2010	319	700	0.614543	207.1223	40.15304	-2.76	15.68	-2.347	13.35	-1.867	-1.946	-0.07941221
11/15/2010 8:00	22889	2_60	2010	319	800	2.263001	114.4163	27.63942	1.774	5.587	3.481	10.02	-1.854	-1.633	0.2205398
11/15/2010 9:00	22890	2_60	2010	319	900	1.07892	36.10738	32.38169	2.499	7.632	0.204	4.101	-1.123	-1.403	-0.2796587
11/15/2010 10:00	22891	2_60	2010	319	1000	1.465224	302.6561	39.49335	7.043	10.69	1.474	6.224	-0.896	-1.269	-0.3730368
11/15/2010 11:00	22892	2_60	2010	319	1100	1.579348	294.5567	27.6035	2.409	9.09	1.51	6.299	-0.675	-0.987	-0.3115435
11/15/2010 12:00	22893	2_60	2010	319	1200	0.9170189	251.9558	29.21266	1.492	9.77	1.697	9.27	0.004	-0.399	-0.4034074
11/15/2010 13:00	22894	2_60	2010	319	1300	1.125061	140.3752	41.1493	2.223	26.85	2.334	26.02	2.473	1.873	-0.6008474
11/15/2010 14:00	22895	2_60	2010	319	1400	2.923989	287.3992	13.29114	8.88	26.69	9.44	26.89	4.732	4.229	-0.5033039
11/15/2010 15:00	22896	2_60	2010	319	1500	3.717538	304.8998	15.81388	19.62	37.33	14.97	41.42	6.473	5.856	-0.616918
11/15/2010 16:00	22897	2_60	2010	319	1600	4.114903	295.6924	15.21023	19.98	36.63	19.45	40.7	6.332	6.089	-0.2426896
11/15/2010 17:00	22898	2_60	2010	319	1700	5.416404	306.7112	11.31094	29.55	31.26	24.21	37.33	4.174	5.765	1.590668
11/15/2010 18:00	22899	2_60	2010	319	1800	3.584758	309.395	27.83524	23.87	18.87	20.31	20.13	1.62	5.147	3.527324
11/15/2010 19:00	22900	2_60	2010	319	1900	1.02422	146.8475	41.93805	0.964	11.13	0.93	10.4	0.187	4.349	4.161725
11/15/2010 20:00	22901	2_60	2010	319	2000	1.980089	191.2795	13.77976	7.066	15.51	16.4	20.88	0.402	4.166	3.763617
11/15/2010 21:00	22902	2_60	2010	319	2100	0.8909618	231.3306	25.15953	1.567	6.493	1.619	5.625	0.424	3.037	2.613225
11/15/2010 22:00	22903	2_60	2010	319	2200	0.8260496	154.6776	29.17901	1.298	6.344	1.923	7.288	0.525	3.189	2.664165
11/15/2010 23:00	22904	2_60	2010	319	2300	3.116011	146.1916	35.1528	4.384	28.48	15.79	34.7	-0.353	1.979	2.331856
11/16/2010 0:00	22905	2_60	2010	320	0	0.7428839	147.4148	51.57551	1.107	12.09	0.627	11.03	-1.884	0.711	2.594331
11/16/2010 1:00	22906	2_60	2010	320	100	1.229653	223.0532	27.55691	2.357	6.062	3.78	8.33	-2.513	0.28	2.792882
11/16/2010 2:00	22907	2_60	2010	320	200	2.178526	290.5814	33.86444	14.39	16.5	13.58	18.12	-3.361	-0.838	2.523066
11/16/2010 3:00	22908	2_60	2010	320	300	1.552465	235.7015	28.76435	7.999	15.91	8.47	14.89	-3.624	-2.315	1.309775
11/16/2010 4:00	22909	2_60	2010	320	400	1.314223	189.6772	30.08907	0.35	7.12	0.319	6.402	-3.828	-1	2.827824
11/16/2010 5:00	22910	2_60	2010	320	500	1.2274	183.6567	34.89529	-2.963	20.78	-1.51	20.64	-2.968	-1.919	1.048835
11/16/2010 6:00	22911	2_60	2010	320	600	0.8212984	287.4568	60.23817	5.218	14.65	3.551	12.02	-1.903	-1.244	0.6586881
11/16/2010 7:00	22912	2_60	2010	320	700	1.874084	283.4594	6.24142	3.385	14.49	5.581	8.82	-3.324	-2.506	0.8177942
11/16/2010 8:00	22913	2_60	2010	320	800	1.879034	280.7523	17.18424	8.7	12.65	6.545	11.26	-3.88	-3.135	0.7458384
11/16/2010 9:00	22914	2_60	2010	320	900	0.5926112	126.7683	48.17262	-0.212	6.439	-0.158	4.945	-1.992	-1.988	0.004139855
11/16/2010 10:00	22915	2_60	2010	320	1000	0.9883567	59.10513	39.05398	4.322	25.11	1.473	23.36	-0.508	-0.928	-0.4192065
11/16/2010 11:00	22916	2_60	2010	320	1100	1.313676	309.1418	32.47252	5.098	40.37	3.265	39.27	1.494	0.774	-0.7203754
11/16/2010 12:00	22917	2_60	2010	320	1200	1.7524	334.2868	28.68745	11.79	42.35	5.15	43.17	3.597	2.899	-0.6985403
11/16/2010 13:00	22918	2_60	2010	320	1300	3.031317	170.8085	66.79816	21.49	102.3	28.19	108.1	8.18	7.46	-0.7161524
11/16/2010 14:00	22919	2_60	2010	320	1400	4.304171	190.4828	39.55586	15.56	96	40.59	104.2	9.67	8.92	-0.7486532
11/16/2010 15:00	22920	2_60	2010	320	1500	6.679342	198.8615	31.15737	20.74	90.8	69.2	107.5	10.66	9.91	-0.7496411
11/16/2010 16:00	22921	2_60	2010	320	1600	6.163043	249.5792	13.90972	7.747	60.19	43.43	74.48	10.97	10.98	0.0108793
11/16/2010 17:00	22922	2_60	2010	320	1700	8.250961	285.1165	9.030471	28.65	58.93	45.89	60.27	10.98	11.38	0.3924405
11/16/2010 18:00	22923	2_60	2010	320	1800	8.22879	299.4026	7.834265	47.88	48.24	50.95	56.36	9.12	9.72	0.5970163
11/16/2010 19:00	22924	2_60	2010	320	1900	6.143388	291.5953	11.00922	28.41	45.71	29.12	51.35	7.2	8.11	0.9055365
11/16/2010 20:00	22925	2_60	2010	320	2000	4.237466	289.2557	11.69892	20.95	32.93	23.57	33.92	5.053	7.132	2.079688
11/16/2010 21:00	22926	2_60	2010	320	2100	5.823689	310.3106	15.8965	40.63	40.09	38.39	44.62	4.702	6.172	1.469764
11/16/2010 22:00	22927	2_60	2010	320	2200	3.133319	295.6982	21.64786	13.05	24.71	13.69	25.72	2.533	5.254	2.720849
11/16/2010 23:00	22928	2_60	2010	320	2300	3.189744	303.0273	20.09941	15.02	26.99	13.15	28.85	1.649	3.904	2.254851
11/17/2010 0:00	22929	2_60	2010	321	0	2.834341	310.1837	18.00566	17.85	28.26	12.71	30.25	1.472	3.382	1.909853
11/17/2010 1:00	22930	2_60	2010	321	100	1.570639	282.7864	24.93467	6.137	19.76	5.592	20.29	0.226	2.937	2.711382
11/17/2010 2:00	22931	2_60	2010	321	200	1.254965	150.9034	20.4015	1.163	11.57	2.349	10.95	-0.912	2.575	3.487466
11/17/2010 3:00	22932	2_60	2010	321	300	1.338794	159.7393	29.52803	1.488	13.54	3.933	15.13	-0.792	2.828	3.61971
11/17/2010 4:00	22933	2_60	2010	321	400	2.063839	265.6596	13.35245	1.687	14.49	12.01	16.13	-0.641	2.717	3.357436
11/17/2010 5:00	22934	2_60	2010	321	500	3.285375	127.1544	13.58753	4.36	12.27	14.19	17.71	-1.495	2.121	3.615776
11/17/2010 6:00	22935	2_60	2010	321	600	1.454502	171.0924	29.03268	0.717	10.8	2.859	12.37	-1.561	1.678	3.238582
11/17/2010 7:00	22936	2_60	2010	321	700	3.853138	143.5666	39.53783	10.26	22.49	26.22	25.58	-0.977	0.955	1.931702
11/17/2010 8:00	22937	2_60	2010	321	800	1.138601	330.9252	34.99674	4	17.21	0.95	16.81	-1.673	0.098	1.770954
11/17/2010 9:00	22938	2_60	2010	321	900	0.6613594	291.2644	36.98928	6.695	18.19	4.185	14.94	0.501	0.098	-0.4028948
11/17/2010 10:00	22939	2_60	2010	321	1000	0.5090983	77.38848	40.8525	0.874	32.19	3.234	30.57	2.982	2.334	-0.6477101
11/17/2010 11:00	22940	2_60	2010	321	1100	1.258237	33.55389	30.94277	0.874	40.34	-2.666	42.82	4.913	4.303	-0.6102843
11/17/2010 12:00	22941	2_60	2010	321	1200	1.818108	323.9346	36.97557	8.3	48.83	4.224	51.36	5.983	5.201	-0.7827224
11/17/2010 13:00	22942	2_60	2010	321	1300	1.967299	307.6047	34.6472	7.059	48.75	4.124	50.59	6.976	6.161	-0.8148726
11/17/2010 14:00	22943	2_60	2010	321	1400	1.571092	264.2511	34.37418	10.44	46.86	12.91	47.55	7.659	6.874	-0.7848253
11/17/2010 15:00	22944	2_60	2010	321	1500	2.220906	102.8303	26.40078	-3.664	40.78	-4.242	44.98	8.32	7.337	-0.9791827
11/17/2010 16:00	22945	2_60	2010	321	1600	1.806841	129.5267	17.63335	-1.941	21.72	0.616	23.92	6.942	7.374	0.4324019
11/17/2010 17:00	22946	2_60	2010	321	1700	1.62875	162.0498	17.95481	2.56	10.35	6.369	11.17	3.281	6.493	3.211435
11/17/2010 18:00	22947	2_60	2010	321	1800	2.04117	189.272	9.401488	3.448	13.15	11.37	15.52	3.286	5.662	2.376521
11/17/2010 19:00	22948	2_60	2010	321	1900	2.985532	158.4834	9.2726	11.71	14.05	25.19	17.62	2.868	5.68	2.812768
11/17/2010 20:00	22949	2_60	2010	321	2000	2.118393	175.121	36.99085	10.06	24.87	21.33	36.81	2.451	5.028	2.576785
11/17/2010 21:00	22950	2_60	2010	321	2100	0.9435284	279.8375	34.28479	2.455	10.4	1.921	6.666	2.011	4.079	2.067699
11/17/2010 22:00	22951	2_60	2010	321	2200	1.53938	121.0849	25.6791	2.065	14.87	2.947	14.68	0	2.854	2.85387
11/17/2010 23:00	22952	2_60	2010	321	2300	0.6995618	220.4879	21.35357	0.286	4.097	0.622	3.674	-0.943	2.681	3.623466

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/15/2010 0:00	22881	2_60	2010	319	0	68.83	32.78	24.4	0	2.526	59.22	2359	13.64
11/15/2010 1:00	22882	2_60	2010	319	100	68.66	33.25	24.38	0	2.901	71.14	4	13.63
11/15/2010 2:00	22883	2_60	2010	319	200	72.84	32.19	24.37	0	2.765	250.5	121	13.61
11/15/2010 3:00	22884	2_60	2010	319	300	74.31	32.35	24.37	0.001	2.116	247.2	240	13.61
11/15/2010 4:00	22885	2_60	2010	319	400	76.8	30.86	24.35	0.001	5.7	128.6	348	13.62
11/15/2010 5:00	22886	2_60	2010	319	500	78.13	30.23	24.35	0	4.745	130.7	400	13.65
11/15/2010 6:00	22887	2_60	2010	319	600	84.5	28.04	24.37	0	6.827	304	522	13.66
11/15/2010 7:00	22888	2_60	2010	319	700	87.1	29.05	24.37	0.05	1.843	272	600	13.65
11/15/2010 8:00	22889	2_60	2010	319	800	95.3	28.94	24.39	4.677	4.267	188.3	736	13.64
11/15/2010 9:00	22890	2_60	2010	319	900	95.4	30.91	24.41	29.49	4.13	25.25	807	13.63
11/15/2010 10:00	22891	2_60	2010	319	1000	94	31.49	24.44	37.57	3.925	297.2	949	13.6
11/15/2010 11:00	22892	2_60	2010	319	1100	94.9	32.28	24.45	63.72	3.072	320.3	1034	13.6
11/15/2010 12:00	22893	2_60	2010	319	1200	89.7	34.46	24.44	224	2.355	349.8	1100	13.57
11/15/2010 13:00	22894	2_60	2010	319	1300	77.59	39.68	24.44	484.9	3.755	315.4	1247	13.5
11/15/2010 14:00	22895	2_60	2010	319	1400	68.56	42.52	24.44	429.5	5.666	295.4	1339	13.43
11/15/2010 15:00	22896	2_60	2010	319	1500	55.59	45.42	24.45	399.9	8.94	300.4	1441	13.38
11/15/2010 16:00	22897	2_60	2010	319	1600	50.7	45.13	24.47	235	8.47	315.4	1533	13.35
11/15/2010 17:00	22898	2_60	2010	319	1700	57.31	40.27	24.48	16.35	9.25	284.7	1616	13.4
11/15/2010 18:00	22899	2_60	2010	319	1800	67.16	35.47	24.5	0.83	7.1	342.6	1710	13.49
11/15/2010 19:00	22900	2_60	2010	319	1900	77	32.91	24.51	0	2.389	180.4	1857	13.57
11/15/2010 20:00	22901	2_60	2010	319	2000	76.59	33.28	24.53	0	4.233	189.7	1929	13.61
11/15/2010 21:00	22902	2_60	2010	319	2100	76.44	33.18	24.54	0	1.911	213.6	2049	13.63
11/15/2010 22:00	22903	2_60	2010	319	2200	77.79	33.24	24.55	0	1.57	204.6	2110	13.63
11/15/2010 23:00	22904	2_60	2010	319	2300	80.7	31.96	24.54	0	6.997	121.6	2229	13.63
11/16/2010 0:00	22905	2_60	2010	320	0	84.6	29.22	24.54	0	3.209	99.7	2328	13.66
11/16/2010 1:00	22906	2_60	2010	320	100	86.9	28.04	24.52	0	2.185	270	9	13.69
11/16/2010 2:00	22907	2_60	2010	320	200	87.8	26.67	24.53	0	5.257	303.2	148	13.72
11/16/2010 3:00	22908	2_60	2010	320	300	90.9	25.82	24.52	0	4.54	298.6	203	13.74
11/16/2010 4:00	22909	2_60	2010	320	400	91.3	25.59	24.51	0	3.14	105.5	335	13.75
11/16/2010 5:00	22910	2_60	2010	320	500	91	26.89	24.49	0	3.482	161.9	437	13.73
11/16/2010 6:00	22911	2_60	2010	320	600	89	28.96	24.48	0	2.492	291	544	13.7
11/16/2010 7:00	22912	2_60	2010	320	700	90	26.55	24.47	0.476	3.482	308.9	650	13.69
11/16/2010 8:00	22913	2_60	2010	320	800	93.4	25.33	24.46	31.94	3.584	308.2	727	13.71
11/16/2010 9:00	22914	2_60	2010	320	900	88.5	29.22	24.45	102.3	1.468	10.26	826	13.7
11/16/2010 10:00	22915	2_60	2010	320	1000	79.61	32.49	24.42	246.1	2.458	16.34	948	13.65
11/16/2010 11:00	22916	2_60	2010	320	1100	66.3	37.28	24.39	521	3.106	349.8	1048	13.57
11/16/2010 12:00	22917	2_60	2010	320	1200	61.22	40.35	24.34	541.7	3.891	354.4	1159	13.48
11/16/2010 13:00	22918	2_60	2010	320	1300	46.39	47.55	24.3	550.5	16.52	201.1	1240	13.39
11/16/2010 14:00	22919	2_60	2010	320	1400	41.39	50.21	24.28	486.2	11.43	167.4	1334	13.33
11/16/2010 15:00	22920	2_60	2010	320	1500	39.41	51.68	24.26	369.8	13.24	221.9	1429	13.29
11/16/2010 16:00	22921	2_60	2010	320	1600	37.11	52.14	24.28	98.9	11.91	234.8	1518	13.29
11/16/2010 17:00	22922	2_60	2010	320	1700	32.35	52.21	24.3	24.88	15.87	308.4	1650	13.31
11/16/2010 18:00	22923	2_60	2010	320	1800	33.48	48.97	24.35	0.415	15.56	295.1	1702	13.34
11/16/2010 19:00	22924	2_60	2010	320	1900	39.07	45.53	24.36	0	11.64	303.5	1812	13.38
11/16/2010 20:00	22925	2_60	2010	320	2000	37	41.67	24.4	0	10	310.8	1958	13.44
11/16/2010 21:00	22926	2_60	2010	320	2100	33.75	41.05	24.45	0	11.16	312.1	2005	13.49
11/16/2010 22:00	22927	2_60	2010	320	2200	40.92	37.29	24.48	0	7.168	318.7	2125	13.53
11/16/2010 23:00	22928	2_60	2010	320	2300	46.43	35.44	24.52	0	5.871	300	2254	13.58
11/17/2010 0:00	22929	2_60	2010	321	0	47.83	35.07	24.56	0	9.45	350.6	2324	13.61
11/17/2010 1:00	22930	2_60	2010	321	100	53.91	33.02	24.58	0	5.939	339.6	31	13.64
11/17/2010 2:00	22931	2_60	2010	321	200	60.74	30.93	24.59	0	3.038	109.8	142	13.66
11/17/2010 3:00	22932	2_60	2010	321	300	59.78	31.24	24.6	0	3.243	250.4	255	13.68
11/17/2010 4:00	22933	2_60	2010	321	400	58.58	31.48	24.62	0	3.174	239.6	339	13.69
11/17/2010 5:00	22934	2_60	2010	321	500	63.65	29.82	24.63	0	5.427	135.2	411	13.7
11/17/2010 6:00	22935	2_60	2010	321	600	62.73	29.79	24.65	0	4.881	131.1	559	13.71
11/17/2010 7:00	22936	2_60	2010	321	700	59.93	30.82	24.65	0.656	6.963	142.6	623	13.71
11/17/2010 8:00	22937	2_60	2010	321	800	62.59	30.1	24.69	59.87	2.833	61.28	719	13.71
11/17/2010 9:00	22938	2_60	2010	321	900	55.02	35.7	24.71	237.8	1.604	302.5	800	13.68
11/17/2010 10:00	22939	2_60	2010	321	1000	42.66	40.38	24.73	395.8	1.638	116.6	936	13.6
11/17/2010 11:00	22940	2_60	2010	321	1100	35.14	42.95	24.72	511.6	4.028	352.9	1048	13.51
11/17/2010 12:00	22941	2_60	2010	321	1200	32.13	44.39	24.73	570.8	4.574	315.5	1145	13.42
11/17/2010 13:00	22942	2_60	2010	321	1300	30.39	46.28	24.73	550.1	5.734	330.8	1204	13.35
11/17/2010 14:00	22943	2_60	2010	321	1400	26.09	47.55	24.72	444.9	3.959	309.6	1303	13.31
11/17/2010 15:00	22944	2_60	2010	321	1500	25.68	47.75	24.72	357.1	4.71	112.8	1448	13.29
11/17/2010 16:00	22945	2_60	2010	321	1600	30.99	45.56	24.72	198.6	4.198	124.1	1552	13.29
11/17/2010 17:00	22946	2_60	2010	321	1700	42.66	38.68	24.73	13.23	2.935	148.7	1615	13.37
11/17/2010 18:00	22947	2_60	2010	321	1800	39.49	38.37	24.74	0.96	3.174	182.9	1745	13.48
11/17/2010 19:00	22948	2_60	2010	321	1900	39.4	37.71	24.75	0	4.506	140.1	1837	13.53
11/17/2010 20:00	22949	2_60	2010	321	2000	42.41	36.85	24.76	0	5.393	178.4	1913	13.57
11/17/2010 21:00	22950	2_60	2010	321	2100	44.08	36.11	24.77	0	2.321	261	2048	13.6
11/17/2010 22:00	22951	2_60	2010	321	2200	54.77	32.56	24.79	0	3.55	127	2138	13.62
11/17/2010 23:00	22952	2_60	2010	321	2300	59.59	30.83	24.79	0	1.741	200.1	2250	13.65

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/18/2010 0:00	22953	2_60	2010	322	0	0.6393142	232.6112	32.89493	0.207	2.345	-0.246	0.117	-1.035	2.118	3.152224
11/18/2010 1:00	22954	2_60	2010	322	100	0.5507138	218.0777	24.12182	0.344	2.333	-0.266	0.105	-1.776	1.249	3.025774
11/18/2010 2:00	22955	2_60	2010	322	200	1.01307	290.1049	13.58421	2.951	7.68	0.522	3.808	-1.803	0.121	1.924412
11/18/2010 3:00	22956	2_60	2010	322	300	0.4005484	169.8383	46.7106	-0.891	3.229	-0.248	1.018	-2.811	-0.828	1.983292
11/18/2010 4:00	22957	2_60	2010	322	400	0.1335186	182.9379	8.585927	-0.281	0.18	-0.28	0.077	-3.495	-0.47	3.025023
11/18/2010 5:00	22958	2_60	2010	322	500	0.4492796	134.7634	12.47143	-0.305	2.129	-0.284	1.104	-3.855	-0.447	3.407793
11/18/2010 6:00	22959	2_60	2010	322	600	0.7053311	300.6096	36.25204	1.996	4.999	0.278	3.154	-4.379	-0.489	3.889926
11/18/2010 7:00	22960	2_60	2010	322	700	0.9408843	279.5455	29.33188	2.355	6.595	1.325	4.709	-4.69	-1.352	3.337443
11/18/2010 8:00	22961	2_60	2010	322	800	1.759771	288.7265	10.55416	3.388	12.58	1.426	5.225	-4.839	-3.396	1.442524
11/18/2010 9:00	22962	2_60	2010	322	900	0.6949536	293.0543	22.09204	2.806	15.11	2.146	12.6	-1.769	-2.169	-0.4001177
11/18/2010 10:00	22963	2_60	2010	322	1000	0.6400831	321.4092	39.42436	4.822	33.15	4.55	31.4	0.694	0.129	-0.5646136
11/18/2010 11:00	22964	2_60	2010	322	1100	0.6500962	27.4987	45.75489	5.938	41.7	2.457	42.62	3.471	2.908	-0.5638292
11/18/2010 12:00	22965	2_60	2010	322	1200	0.5754874	341.8041	46.35938	-3.033	48.43	-2.926	48.73	6.286	5.625	-0.6603454
11/18/2010 13:00	22966	2_60	2010	322	1300	0.7266385	48.81024	35.37136	9.83	38.25	8.88	39.39	8.72	7.916	-0.8046558
11/18/2010 14:00	22967	2_60	2010	322	1400	1.206353	26.08011	37.98533	6.809	39.57	1.185	41.36	10.99	10.35	-0.6380913
11/18/2010 15:00	22968	2_60	2010	322	1500	2.048758	314.5156	37.1598	8.07	45.4	9.44	49.88	13.24	12.64	-0.6027271
11/18/2010 16:00	22969	2_60	2010	322	1600	3.630548	194.7225	29.96931	4.875	60.25	25.22	67.65	13.17	12.99	-0.1798117
11/18/2010 17:00	22970	2_60	2010	322	1700	2.721807	160.999	25.33773	-3.794	41.93	6.691	44.4	11.04	12.49	1.450459
11/18/2010 18:00	22971	2_60	2010	322	1800	1.633957	197.8862	43.6461	4.738	32.01	9.73	31.1	6.4	11.08	4.679068
11/18/2010 19:00	22972	2_60	2010	322	1900	2.129794	214.1105	25.11114	11.01	14.62	16.42	18.25	4.592	10.13	5.542953
11/18/2010 20:00	22973	2_60	2010	322	2000	1.11226	214.1654	19.36838	0.989	7.097	1.096	5.079	4.411	8.71	4.29803
11/18/2010 21:00	22974	2_60	2010	322	2100	0.6219651	147.8702	17.3245	0.832	3.579	0.382	3.35	4.139	8.1	3.960834
11/18/2010 22:00	22975	2_60	2010	322	2200	1.090157	205.1608	20.37627	4.34	9.07	4.74	10.57	2.556	7.612	5.055548
11/18/2010 23:00	22976	2_60	2010	322	2300	0.8723608	237.6805	20.60259	2.59	6.054	0.57	3.515	1.794	6.343	4.548936
11/19/2010 0:00	22977	2_60	2010	323	0	0.6727059	222.2021	19.97774	0.918	4.43	0.791	4.15	1.823	6.181	4.35775
11/19/2010 1:00	22978	2_60	2010	323	100	0.5038936	279.4703	22.57254	0.596	3.081	-0.189	0.149	1.482	5.001	3.519069
11/19/2010 2:00	22979	2_60	2010	323	200	0.3757225	71.33083	39.04578	0.775	4.779	0.283	3.321	-0.328	3.664	3.992111
11/19/2010 3:00	22980	2_60	2010	323	300	0.4233066	130.3407	42.92353	0.012	1.905	-0.027	1.523	-1.035	2.469	3.504184
11/19/2010 4:00	22981	2_60	2010	323	400	0.5146987	69.10043	42.62313	-0.25	0.28	-0.258	0.106	-1.309	2.225	3.534264
11/19/2010 5:00	22982	2_60	2010	323	500	0.4892725	248.4208	34.75224	0.491	2.832	-0.253	0.111	-1.27	2.598	3.867705
11/19/2010 6:00	22983	2_60	2010	323	600	1.381829	273.5616	10.34944	9.4	14.17	4.899	10.72	-2.07	1.415	3.485753
11/19/2010 7:00	22984	2_60	2010	323	700	0.9992805	258.437	49.44604	3.006	8.08	1.052	4.647	-2.981	-0.466	2.514264
11/19/2010 8:00	22985	2_60	2010	323	800	0.520815	206.8075	47.12983	0.557	3.066	-0.243	0.725	-1.928	0.502	2.429831
11/19/2010 9:00	22986	2_60	2010	323	900	0.5697124	285.1561	18.78295	2.228	10.43	1.802	8.11	1.132	1.253	0.1208287
11/19/2010 10:00	22987	2_60	2010	323	1000	1.520239	303.9063	21.07992	7.207	20.92	5.219	17.71	2.656	2.08	-0.5755333
11/19/2010 11:00	22988	2_60	2010	323	1100	1.1256	322.1089	45.32187	3.464	30.39	1.212	27.3	4.492	3.855	-0.6368589
11/19/2010 12:00	22989	2_60	2010	323	1200	1.036142	331.5231	59.25306	4.716	26.64	2.477	23.74	8.07	7.53	-0.5394531
11/19/2010 13:00	22990	2_60	2010	323	1300	4.761978	186.638	41.25875	10.37	62.56	37.53	70.31	12	11.61	-0.3895799
11/19/2010 14:00	22991	2_60	2010	323	1400	5.316025	182.0821	20.53244	-3.585	81.9	25.18	89.6	12.35	11.98	-0.3755787
11/19/2010 15:00	22992	2_60	2010	323	1500	2.74872	249.008	44.04777	11.69	63.31	17.25	65.74	12.41	12.11	-0.2999825
11/19/2010 16:00	22993	2_60	2010	323	1600	1.85966	350.4261	43.40231	7.01	34.86	2.209	34.44	11.91	12.07	0.1560169
11/19/2010 17:00	22994	2_60	2010	323	1700	1.756439	87.86623	52.00505	3.08	40.85	1.69	42.79	9.78	11.43	1.652064
11/19/2010 18:00	22995	2_60	2010	323	1800	2.850493	165.3582	17.28887	5.637	32.63	17.1	35.31	8.25	11.57	3.318422
11/19/2010 19:00	22996	2_60	2010	323	1900	2.200656	177.2809	44.23465	4.105	22.45	9.98	24.68	7.569	10.84	3.275541
11/19/2010 20:00	22997	2_60	2010	323	2000	0.9725422	236.0722	38.21876	2.21	14.62	1.433	11	6.058	9.01	2.947447
11/19/2010 21:00	22998	2_60	2010	323	2100	1.046977	244.2427	34.84032	3.915	13.08	2.789	11.37	6.017	9.11	3.089423
11/19/2010 22:00	22999	2_60	2010	323	2200	0.924727	231.9627	46.62315	0.844	4.78	0.069	2.807	5.499	9.05	3.549567
11/19/2010 23:00	23000	2_60	2010	323	2300	1.58671	252.3299	53.80356	7.309	13.68	4.456	11.7	5.039	8.49	3.446873
11/20/2010 0:00	23001	2_60	2010	324	0	0.7383003	193.2883	43.55429	-0.016	13.25	0.195	13.73	4.287	7.252	2.964933
11/20/2010 1:00	23002	2_60	2010	324	100	1.141498	345.9779	42.05166	3.427	24.23	0.042	21.75	5.518	7.899	2.381181
11/20/2010 2:00	23003	2_60	2010	324	200	2.07007	163.3573	56.4218	5.438	38.77	11.87	42.43	5.745	8.99	3.243569
11/20/2010 3:00	23004	2_60	2010	324	300	5.163304	168.4083	34.47395	10.32	56.68	36.85	65.91	8.76	10.95	2.186725
11/20/2010 4:00	23005	2_60	2010	324	400	5.717832	172.0294	43.85888	-10.05	108.1	16.04	117.7	10.94	11.03	0.09444346
11/20/2010 5:00	23006	2_60	2010	324	500	8.102601	170.4354	16.94124	10.73	101.2	57.5	117.2	10.51	10.62	0.1089116
11/20/2010 6:00	23007	2_60	2010	324	600	6.956173	175.7431	13.37657	10.02	69.21	51.71	83.2	10.01	10.23	0.2172774
11/20/2010 7:00	23008	2_60	2010	324	700	7.439082	181.0049	11.25098	23.97	71.83	74.76	83.7	9.89	10.2	0.3139251
11/20/2010 8:00	23009	2_60	2010	324	800	6.946015	175.0521	28.9722	0.867	97.3	43.9	116.2	10.5	10.56	0.05689241
11/20/2010 9:00	23010	2_60	2010	324	900	4.724022	156.3838	30.51406	-1.913	82.3	17.48	91.1	11.04	10.95	-0.0894365
11/20/2010 10:00	23011	2_60	2010	324	1000	4.329711	153.9009	32.21423	5.02	76.25	24.31	83.4	10.91	10.87	-0.04265249
11/20/2010 11:00	23012	2_60	2010	324	1100	6.106142	170.317	23.71217	-4.551	93.8	24.95	104.2	11.89	11.55	-0.3402137
11/20/2010 12:00	23013	2_60	2010	324	1200	3.050946	292.3338	74.72045	-0.36	110.4	4.723	112.6	12.63	12.18	-0.4514901
11/20/2010 13:00	23014	2_60	2010	324	1300	3.123473	92.68066	69.85687	17.74	87	21.3	90.9	13.2	12.7	-0.4989428
11/20/2010 14:00	23015	2_60	2010	324	1400	4.918694	307.5621	67.51689	33.67	135.4	41.17	143.2	13.18	12.8	-0.3806443
11/20/2010 15:00	23016	2_60	2010	324	1500	5.376188	204.4114	52.6792	-4.81	159.8	15.41	172.1	13.1	12.85	-0.2492176
11/20/2010 16:00	23017	2_60	2010	324	1600	5.978149	152.3022	35.02386	1.685	127.9	26.54	139	13.08	12.93	-0.1488879
11/20/2010 17:00	23018	2_60	2010	324	1700	5.377635	140.5809	41.19533	-5.326	148.5	14.72	160.9	13.1	13.09	-0.0127833
11/20/2010 18:00	23019	2_60	2010	324	1800	4.015634	97.97414	60.38416	-3.105	94.7	-1.549	101.3	12.63	12.83	0.1942746
11/20/2010 19:00	23020	2_60	2010	324	1900	4.244271	53.96918	48.78742	6.881	123.2	-3.424	129	12.24	12.53	0.2843356
11/20/2010 20:00	23021	2_60	2010	324	2000	5.102233	270.6867	78.2683	-12.64	197.3	-1.883	200	12.31	12.23	-0.08013209
11/20/2010 21:00	23022	2_60	2010	324	2100	3.984462	134.3158	80.5539	-13.94	149.1	-5.853	158.1	11.55	11.46	-0.08646196
11/20/2010 22:00	23023	2_60	2010	324	2200	4.826328	265.1812	49.61511	-6.258	148.1	5.263	153	10.62	10.55	-0.07173493
11/20/2010 23:00	23024	2_60	2010	324	2300	6.0958	186.2643	40.61441	-6.097	138.7	22.5	149.7	8.99	8.93	-0.0597875

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/18/2010 0:00	22953	2_60	2010	322	0	59.58	30.64	24.79	0	1.331	184.3	2315	13.67
11/18/2010 1:00	22954	2_60	2010	322	100	62.26	29.44	24.78	0	1.434	180.5	38	13.69
11/18/2010 2:00	22955	2_60	2010	322	200	62.11	29.36	24.78	0	2.082	304.2	144	13.71
11/18/2010 3:00	22956	2_60	2010	322	300	66.74	27.46	24.78	0	1.536	272.9	202	13.73
11/18/2010 4:00	22957	2_60	2010	322	400	68.32	26.58	24.78	0	0.819	169.9	347	13.75
11/18/2010 5:00	22958	2_60	2010	322	500	71.61	25.41	24.78	0	1.604	141.9	447	13.77
11/18/2010 6:00	22959	2_60	2010	322	600	72.06	25.02	24.77	0	1.877	309.2	559	13.78
11/18/2010 7:00	22960	2_60	2010	322	700	74.24	24.1	24.78	0.48	2.458	272.5	659	13.79
11/18/2010 8:00	22961	2_60	2010	322	800	74.63	24.24	24.78	57.7	3.55	294.3	731	13.8
11/18/2010 9:00	22962	2_60	2010	322	900	57.98	31.58	24.79	236.5	1.946	294.8	803	13.75
11/18/2010 10:00	22963	2_60	2010	322	1000	46.08	36.21	24.77	394.2	1.741	323.6	929	13.66
11/18/2010 11:00	22964	2_60	2010	322	1100	39.08	40.53	24.75	514.6	1.98	354.4	1041	13.56
11/18/2010 12:00	22965	2_60	2010	322	1200	32.14	45.56	24.71	566.4	2.082	308.6	1131	13.45
11/18/2010 13:00	22966	2_60	2010	322	1300	26.2	49.99	24.67	579.4	2.833	94.7	1259	13.34
11/18/2010 14:00	22967	2_60	2010	322	1400	22.36	53.84	24.64	528.8	3.243	17.49	1314	13.26
11/18/2010 15:00	22968	2_60	2010	322	1500	17.7	57.57	24.62	397.7	7.885	258	1446	13.21
11/18/2010 16:00	22969	2_60	2010	322	1600	13.85	56.38	24.61	164.1	10.1	182.5	1513	13.2
11/18/2010 17:00	22970	2_60	2010	322	1700	15.78	52.57	24.6	31.65	7.1	134.8	1611	13.26
11/18/2010 18:00	22971	2_60	2010	322	1800	25.93	44.14	24.6	0.472	4.028	180.2	1700	13.35
11/18/2010 19:00	22972	2_60	2010	322	1900	29.35	40.69	24.6	0	3.857	191.7	1818	13.44
11/18/2010 20:00	22973	2_60	2010	322	2000	30.65	40.57	24.59	0	2.765	249.8	1903	13.5
11/18/2010 21:00	22974	2_60	2010	322	2100	31.42	40.28	24.59	0	1.877	205.3	2055	13.53
11/18/2010 22:00	22975	2_60	2010	322	2200	38.14	37.28	24.59	0	2.185	184.4	2119	13.56
11/18/2010 23:00	22976	2_60	2010	322	2300	41.17	35.98	24.59	0.001	1.98	219.1	2207	13.58
11/19/2010 0:00	22977	2_60	2010	323	0	39.89	35.92	24.58	0	1.98	251.8	2338	13.61
11/19/2010 1:00	22978	2_60	2010	323	100	39.99	35.5	24.57	0	1.126	336	34	13.62
11/19/2010 2:00	22979	2_60	2010	323	200	47.92	32.49	24.56	0	1.195	17.33	119	13.65
11/19/2010 3:00	22980	2_60	2010	323	300	52.86	30.72	24.56	0	1.57	169.5	207	13.68
11/19/2010 4:00	22981	2_60	2010	323	400	52.21	30.64	24.55	0	1.297	143.2	330	13.71
11/19/2010 5:00	22982	2_60	2010	323	500	51.53	30.52	24.55	0	1.297	238.4	405	13.72
11/19/2010 6:00	22983	2_60	2010	323	600	55.43	29.19	24.55	0	4.915	293.9	550	13.72
11/19/2010 7:00	22984	2_60	2010	323	700	61.79	27.15	24.55	0.411	3.755	297.1	600	13.74
11/19/2010 8:00	22985	2_60	2010	323	800	58.29	29.63	24.55	60.87	1.638	194	728	13.75
11/19/2010 9:00	22986	2_60	2010	323	900	49.44	36.41	24.56	216.4	2.185	260.6	845	13.7
11/19/2010 10:00	22987	2_60	2010	323	1000	42.64	38.68	24.55	352.9	2.833	310.8	959	13.61
11/19/2010 11:00	22988	2_60	2010	323	1100	38.99	42.01	24.52	478.3	3.243	309.8	1001	13.52
11/19/2010 12:00	22989	2_60	2010	323	1200	30.74	47.99	24.5	383	2.97	21.13	1101	13.42
11/19/2010 13:00	22990	2_60	2010	323	1300	20.06	54.06	24.47	316.8	11.4	170.3	1250	13.36
11/19/2010 14:00	22991	2_60	2010	323	1400	18.12	54.62	24.45	234.8	11.5	200.1	1308	13.32
11/19/2010 15:00	22992	2_60	2010	323	1500	17.72	54.9	24.44	189.4	8.16	183.8	1404	13.3
11/19/2010 16:00	22993	2_60	2010	323	1600	19.21	54.05	24.44	115.2	4.028	315.9	1509	13.3
11/19/2010 17:00	22994	2_60	2010	323	1700	23.59	50.18	24.44	26.63	5.12	103.3	1620	13.33
11/19/2010 18:00	22995	2_60	2010	323	1800	25.25	47.39	24.44	0.204	8.19	172.7	1715	13.37
11/19/2010 19:00	22996	2_60	2010	323	1900	28.13	46.15	24.44	0	5.598	138.9	1801	13.41
11/19/2010 20:00	22997	2_60	2010	323	2000	33.53	43.27	24.43	0	2.185	299.9	1905	13.44
11/19/2010 21:00	22998	2_60	2010	323	2100	34.6	43.24	24.43	0	2.799	278.8	2009	13.46
11/19/2010 22:00	22999	2_60	2010	323	2200	38.04	42.36	24.42	0	2.867	171.8	2158	13.48
11/19/2010 23:00	23000	2_60	2010	323	2300	38.68	41.71	24.42	0	3.891	308.4	2251	13.49
11/20/2010 0:00	23001	2_60	2010	324	0	42.04	40.15	24.4	0.001	2.423	253.1	2301	13.5
11/20/2010 1:00	23002	2_60	2010	324	100	36.01	42.16	24.4	0	3.243	19.36	53	13.51
11/20/2010 2:00	23003	2_60	2010	324	200	36.05	42.99	24.4	0	7.441	181.5	122	13.5
11/20/2010 3:00	23004	2_60	2010	324	300	27.89	48.33	24.41	0	13.59	170.2	251	13.48
11/20/2010 4:00	23005	2_60	2010	324	400	20.52	52.09	24.41	0	14.13	169.3	354	13.42
11/20/2010 5:00	23006	2_60	2010	324	500	21.74	51.3	24.4	0	16.42	167.8	436	13.39
11/20/2010 6:00	23007	2_60	2010	324	600	23.19	50.41	24.38	0	12.83	183.1	552	13.37
11/20/2010 7:00	23008	2_60	2010	324	700	24.27	50.17	24.38	0.156	14.1	186.7	653	13.37
11/20/2010 8:00	23009	2_60	2010	324	800	23.21	51.42	24.39	57.15	14.44	145.5	749	13.37
11/20/2010 9:00	23010	2_60	2010	324	900	20.91	52.29	24.4	74.21	12.94	153.1	814	13.35
11/20/2010 10:00	23011	2_60	2010	324	1000	20.93	52.01	24.39	69.26	12.19	156.7	959	13.35
11/20/2010 11:00	23012	2_60	2010	324	1100	20.71	53.73	24.36	206.9	13.04	177.6	1025	13.34
11/20/2010 12:00	23013	2_60	2010	324	1200	19.29	55.26	24.34	270.4	10.07	174.1	1102	13.31
11/20/2010 13:00	23014	2_60	2010	324	1300	19.02	56.32	24.29	243	9.83	118.9	1228	13.28
11/20/2010 14:00	23015	2_60	2010	324	1400	16.96	56.18	24.29	217.2	13.48	256.9	1353	13.27
11/20/2010 15:00	23016	2_60	2010	324	1500	17.13	55.97	24.28	130.7	21.09	247.6	1419	13.27
11/20/2010 16:00	23017	2_60	2010	324	1600	18.18	55.9	24.26	81.3	17.95	198.7	1559	13.28
11/20/2010 17:00	23018	2_60	2010	324	1700	17.32	55.96	24.25	16.04	17.65	149	1603	13.29
11/20/2010 18:00	23019	2_60	2010	324	1800	18.3	55.16	24.25	0.11	12.87	125.9	1723	13.3
11/20/2010 19:00	23020	2_60	2010	324	1900	18.99	54.41	24.25	0	10.68	190	1833	13.31
11/20/2010 20:00	23021	2_60	2010	324	2000	17.65	54.53	24.27	0	19.22	229.7	1909	13.31
11/20/2010 21:00	23022	2_60	2010	324	2100	19.96	53.13	24.27	0	17.07	164.1	2039	13.32
11/20/2010 22:00	23023	2_60	2010	324	2200	26.05	51.51	24.29	0	18.53	250.5	2132	13.33
11/20/2010 23:00	23024	2_60	2010	324	2300	35.29	48.58	24.29	0.001	17.34	156	2252	13.35

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
11/21/2010 0:00	23025	2_60	2010	325	0	6.051356	148.0349	46.62598	5.197	132.2	25.48	141.8	8.51	8.49	-0.02138861
11/21/2010 1:00	23026	2_60	2010	325	100	4.810593	264.4014	54.33111	-6.965	131.2	7.132	137.7	8.74	8.68	-0.05886005
11/21/2010 2:00	23027	2_60	2010	325	200	3.087488	258.0908	78.78693	-3.96	119.8	4.357	124.3	8.27	8.23	-0.03096519
11/21/2010 3:00	23028	2_60	2010	325	300	3.744641	328.3645	74.27703	-24.11	152.6	-21.09	155.1	7.765	7.706	-0.05885779
11/21/2010 4:00	23029	2_60	2010	325	400	3.331401	135.4054	65.63656	6.594	133.4	13.56	140.6	7.665	7.566	-0.09838893
11/21/2010 5:00	23030	2_60	2010	325	500	4.06493	113.681	72.00333	7.864	136.9	15.36	143.5	7.12	7.037	-0.08304483
11/21/2010 6:00	23031	2_60	2010	325	600	4.147787	125.473	48.61065	8.51	114.5	18.49	120.9	6.831	6.708	-0.1234688
11/21/2010 7:00	23032	2_60	2010	325	700	5.412993	169.6288	46.81022	-0.289	154	25.12	166.2	6.708	6.564	-0.1439074
11/21/2010 8:00	23033	2_60	2010	325	800	3.575431	236.3494	60.82856	-16.09	134.3	-4.464	138.5	6.348	6.147	-0.2016839
11/21/2010 9:00	23034	2_60	2010	325	900	3.636757	147.7295	66.43996	18.37	112.3	27.02	121.1	6.335	6.071	-0.2641564
11/21/2010 10:00	23035	2_60	2010	325	1000	3.550915	169.2354	75.99835	3.05	121	15.32	128	7.043	6.57	-0.4735196
11/21/2010 11:00	23036	2_60	2010	325	1100	3.776385	164.6229	80.62521	3.722	150.9	13.87	153.4	6.052	5.759	-0.2925039
11/21/2010 12:00	23037	2_60	2010	325	1200	4.159727	190.0318	77.92816	4.894	159.6	13.31	165.3	7.631	7.264	-0.3668666
11/21/2010 13:00	23038	2_60	2010	325	1300	4.329942	232.847	80.71716	16.32	150.9	26.64	159.6	8.88	8.29	-0.5924965
11/21/2010 14:00	23039	2_60	2010	325	1400	5.441177	167.1974	73.31361	-9.88	193.1	6.883	206	7.423	7.016	-0.4069598
11/21/2010 15:00	23040	2_60	2010	325	1500	5.24616	54.14093	73.79089	-2.517	167.5	-4.176	180	5.418	5.294	-0.1241131
11/21/2010 16:00	23041	2_60	2010	325	1600	5.648003	290.6055	84.55389	13.4	213.5	21.14	216.6	7.819	7.684	-0.1351567
11/21/2010 17:00	23042	2_60	2010	325	1700	5.297562	237.4318	69.35526	-20.63	199.7	-11.7	203.3	7.318	7.196	-0.1219772
11/21/2010 18:00	23043	2_60	2010	325	1800	6.930919	253.9272	60.8614	-30.23	169.3	-12.47	180.9	6.033	5.966	-0.06638802
11/21/2010 19:00	23044	2_60	2010	325	1900	8.730166	281.4868	15.61564	24.56	94.9	38.96	105.7	0.682	0.718	0.03626511
11/21/2010 20:00	23045	2_60	2010	325	2000	6.032893	258.4526	26.7009	1.551	111.8	22.41	121	0.719	0.783	0.06354212
11/21/2010 21:00	23046	2_60	2010	325	2100	4.51801	214.4797	41.36209	-7.692	111.9	15.89	117.2	1.074	1.185	0.1104383
11/21/2010 22:00	23047	2_60	2010	325	2200	5.043921	264.6225	23.64526	7.29	76.48	22.84	82.8	0.925	1.285	0.3597209
11/21/2010 23:00	23048	2_60	2010	325	2300	6.88101	244.2971	18.54191	21.99	71.6	61.53	84.7	-0.08	0.216	0.2959204
11/22/2010 0:00	23049	2_60	2010	326	0	4.642061	220.8628	19.34215	8.99	69.77	36.78	78.84	-1.105	-0.851	0.2541802
11/22/2010 1:00	23050	2_60	2010	326	100	3.252134	202.8371	33.93094	12.03	48.9	28.38	53.88	-1.627	-1.051	0.5756304
11/22/2010 2:00	23051	2_60	2010	326	200	5.103111	209.4156	33.54693	3.941	84.1	34.12	94.6	-1.49	-1.089	0.4013684
11/22/2010 3:00	23052	2_60	2010	326	300	7.15484	209.6372	16.55652	14.67	90.6	65.65	105.2	-1.139	-0.855	0.284135
11/22/2010 4:00	23053	2_60	2010	326	400	3.921227	176.3069	17.61965	15.11	49.1	37.35	55.39	-1.923	-1.012	0.9110749
11/22/2010 5:00	23054	2_60	2010	326	500	2.272418	155.5335	40.5549	8.94	21.62	19.93	28.48	-3.598	-2	1.597209
11/22/2010 6:00	23055	2_60	2010	326	600	4.303746	183.7918	17.22507	10.04	25.52	37.82	32.67	-2.396	-1.573	0.8231264
11/22/2010 7:00	23056	2_60	2010	326	700	6.606627	182.6517	6.060548	17.17	30.93	64.29	37.66	-1.87	-1.327	0.5429858
11/22/2010 8:00	23057	2_60	2010	326	800	7.08533	192.8657	7.331439	8.6	42.02	60.04	51.99	-1.294	-0.931	0.3634987
11/22/2010 9:00	23058	2_60	2010	326	900	4.981978	194.7857	23.71988	10.1	61.84	40.91	69.89	-0.773	-0.678	0.0945793
11/22/2010 10:00	23059	2_60	2010	326	1000	5.401506	201.4565	23.46601	5.85	88.9	40.56	101	-0.341	-0.436	-0.09543014
11/22/2010 11:00	23060	2_60	2010	326	1100	5.40796	199.9819	23.78295	-2.218	95.6	30.04	105.2	0.244	0.079	-0.1653484
11/22/2010 12:00	23061	2_60	2010	326	1200	4.581501	205.9404	37.20979	5.969	97.2	33.05	104.6	0.865	0.736	-0.128755
11/22/2010 13:00	23062	2_60	2010	326	1300	4.846791	188.3857	28.08849	5.65	83.9	33	94.2	1.092	0.862	-0.2304161
11/22/2010 14:00	23063	2_60	2010	326	1400	3.16489	220.7533	36.87129	-3.087	71.13	12.95	77.27	1.759	1.579	-0.1808363
11/22/2010 15:00	23064	2_60	2010	326	1500	4.746391	231.3008	23.54266	-1.931	64.66	23.51	71.79	2.237	2.164	-0.07274427
11/22/2010 16:00	23065	2_60	2010	326	1600	3.585863	214.9111	38.15462	-4.21	68.68	13.61	75.55	2.24	2.227	-0.01392443
11/22/2010 17:00	23066	2_60	2010	326	1700	3.611551	205.7407	46.59067	-3.435	80.6	17.02	89.5	2.152	2.132	-0.01954318
11/22/2010 18:00	23067	2_60	2010	326	1800	3.512286	155.8103	39.18187	-5.957	67.84	6.689	72.85	1.71	1.86	0.149712
11/22/2010 19:00	23068	2_60	2010	326	1900	3.328556	147.3575	34.07376	-3.886	62.73	7.181	67.53	1.328	1.575	0.2467313
11/22/2010 20:00	23069	2_60	2010	326	2000	3.229519	116.6223	35.27779	1.661	67.38	7.227	73.84	0.827	1.067	0.2402302
11/22/2010 21:00	23070	2_60	2010	326	2100	2.322651	96.05231	56.11462	-6.435	78.46	-6.645	82.6	0.385	0.688	0.3030732
11/22/2010 22:00	23071	2_60	2010	326	2200	2.721767	148.7517	40.60411	10.11	39.66	19.49	44.89	-1.597	0.116	1.712894
11/22/2010 23:00	23072	2_60	2010	326	2300	4.774529	159.586	7.375916	12.31	27.71	38.48	34.6	-1.857	0.221	2.077981
11/23/2010 0:00	23073	2_60	2010	327	0	2.615013	169.0223	44.65778	8.58	30.58	19.49	35.66	-2.328	-0.229	2.098676
11/23/2010 1:00	23074	2_60	2010	327	100	1.691499	284.9516	32.16125	3.077	11.87	3.023	10.95	-3.851	-1.964	1.886343
11/23/2010 2:00	23075	2_60	2010	327	200	1.050165	186.2481	32.27071	1.632	7.773	0.99	6.492	-5.003	-2.426	2.577156
11/23/2010 3:00	23076	2_60	2010	327	300	1.063702	165.7763	29.105	1.672	6.289	1.848	7.043	-5.2	-2.145	3.055318
11/23/2010 4:00	23077	2_60	2010	327	400	0.8975339	248.3343	26.17727	0.755	7.157	-0.144	3.397	-5.316	-2.607	2.70847
11/23/2010 5:00	23078	2_60	2010	327	500	1.290579	232.077	29.25253	1.242	12.44	1.666	12.33	-6.079	-3.41	2.6693
11/23/2010 6:00	23079	2_60	2010	327	600	1.618204	233.8069	51.15769	3.048	9.73	3.042	10.37	-5.744	-3.69	2.054272
11/23/2010 7:00	23080	2_60	2010	327	700	0.7251877	240.9489	33.90413	1.549	4.531	0.105	2.096	-6.2	-3.772	2.427949
11/23/2010 8:00	23081	2_60	2010	327	800	0.9272597	78.59867	57.42091	0.456	12.93	0.148	12.66	-5.977	-3.801	2.175363
11/23/2010 9:00	23082	2_60	2010	327	900	0.5481797	265.7871	46.17936	0.807	13.5	0.889	12.6	-2.407	-2.594	-0.1874418
11/23/2010 10:00	23083	2_60	2010	327	1000	1.561255	310.7448	25.04174	2.354	23.26	-0.786	24.01	-0.56	-1.165	-0.6055447
11/23/2010 11:00	23084	2_60	2010	327	1100	2.907215	56.64037	63.55064	-6.927	66.15	-11.5	73.74	3.259	2.717	-0.5412033
11/23/2010 12:00	23085	2_60	2010	327	1200	3.66998	81.98043	52.3633	23.43	84.1	22.66	91.6	5.17	4.439	-0.7308658
11/23/2010 13:00	23086	2_60	2010	327	1300	4.334297	286.5527	61.64553	15.02	117.7	21.39	127	5.257	4.709	-0.5482869
11/23/2010 14:00	23087	2_60	2010	327	1400	4.646533	211.3147	54.82066	8.38	109.7	32.91	120	5.234	4.918	-0.3156815
11/23/2010 15:00	23088	2_60	2010	327	1500	4.659242	204.9465	53.70727	0.474	127.3	24.91	135.5	6.233	5.79	-0.4428679
11/23/2010 16:00	23089	2_60	2010	327	1600	3.492452	225.3068	71.15393	-0.443	120.4	12.21	125.1	5.659	5.403	-0.2562672
11/23/2010 17:00	23090	2_60	2010	327	1700	4.553884	169.7413	42.70996	7.603	120.9	30.01	131.4	5.538	5.503	-0.03453148
11/23/2010 18:00	23091	2_60	2010	327	1800	4.10674	124.7533	62.0288	-10.89	122.8	-2.038	130.5	5.213	5.226	0.01253957
11/23/2010 19:00	23092	2_60	2010	327	1900	3.804712	91.79156	58.42898	-4.361	99.3	-4.52	107.2	5.028	5.077	0.04833421
11/23/2010 20:00	23093	2_60	2010	327	2000	3.317262	302.8958	62.39004	-6.59	121	-4.154	124.3	4.652	4.682	0.03086814
11/23/2010 21:00	23094	2_60	2010	327	2100	3.365502	283.5814	46.65249	-6.102	91.7	-1.002	93.7	4.096	4.209	0.1135943
11/23/2010 22:00	23095	2_60	2010	327	2200	2.500487	190.0703	72.66231	-0.894	91.9	6.84	96.1	4.057	4.061	0.00374513
11/23/2010 23:00	23096	2_60	2010	327	2300	3.816664	258.2795	63.90825	-18.44	118	-8.74	120.9	4.127	4.078	-0.04903622

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/21/2010 0:00	23025	2_60	2010	325	0	38.85	47.67	24.27	0	17.61	156.6	2304	13.38
11/21/2010 1:00	23026	2_60	2010	325	100	35.42	48.08	24.29	0	18.26	219.1	33	13.4
11/21/2010 2:00	23027	2_60	2010	325	200	40.98	47.26	24.27	0	13.11	262.3	104	13.4
11/21/2010 3:00	23028	2_60	2010	325	300	47.46	46.34	24.26	0	15.12	237.5	257	13.42
11/21/2010 4:00	23029	2_60	2010	325	400	52.55	46.11	24.25	0	13.11	140.3	356	13.42
11/21/2010 5:00	23030	2_60	2010	325	500	57.8	45.2	24.25	0	15.33	147.4	422	13.43
11/21/2010 6:00	23031	2_60	2010	325	600	61.07	44.6	24.25	0	15.5	128.9	556	13.44
11/21/2010 7:00	23032	2_60	2010	325	700	59.14	44.4	24.27	0.171	17.37	167.6	602	13.44
11/21/2010 8:00	23033	2_60	2010	325	800	61.18	43.75	24.28	16.43	13.82	230.8	708	13.44
11/21/2010 9:00	23034	2_60	2010	325	900	61.1	43.73	24.29	50.71	12.53	206.3	840	13.44
11/21/2010 10:00	23035	2_60	2010	325	1000	56.53	45.17	24.27	200.4	15.36	139.6	945	13.43
11/21/2010 11:00	23036	2_60	2010	325	1100	67.3	43.33	24.27	132.6	15.91	142.5	1006	13.43
11/21/2010 12:00	23037	2_60	2010	325	1200	54.83	46.15	24.23	215.8	12.39	173	1155	13.43
11/21/2010 13:00	23038	2_60	2010	325	1300	48.06	48.53	24.18	369.4	14.95	140.4	1253	13.39
11/21/2010 14:00	23039	2_60	2010	325	1400	60.16	45.86	24.16	210.2	18.64	139.1	1302	13.37
11/21/2010 15:00	23040	2_60	2010	325	1500	74.07	42.26	24.12	101.3	25.63	162.5	1416	13.42
11/21/2010 16:00	23041	2_60	2010	325	1600	56.15	46.59	24.13	152	22.02	262.4	1542	13.43
11/21/2010 17:00	23042	2_60	2010	325	1700	57.42	45.59	24.13	22.24	17.78	197.3	1621	13.42
11/21/2010 18:00	23043	2_60	2010	325	1800	60.68	43.4	24.21	0.366	22.08	229.9	1735	13.44
11/21/2010 19:00	23044	2_60	2010	325	1900	88.9	33.09	24.28	0.075	19.01	246.8	1806	13.5
11/21/2010 20:00	23045	2_60	2010	325	2000	69.09	32.92	24.27	0.002	18.84	256.2	1906	13.57
11/21/2010 21:00	23046	2_60	2010	325	2100	59.48	33.89	24.29	0.001	13.24	246.1	2020	13.6
11/21/2010 22:00	23047	2_60	2010	325	2200	57.94	33.66	24.32	0.001	12.42	217.7	2137	13.62
11/21/2010 23:00	23048	2_60	2010	325	2300	65.93	32.24	24.34	0.001	14.17	235.7	2218	13.64
11/22/2010 0:00	23049	2_60	2010	326	0	69.52	30.47	24.36	0	12.63	245.2	2318	13.66
11/22/2010 1:00	23050	2_60	2010	326	100	72.89	29.64	24.36	0	8.5	173	9	13.68
11/22/2010 2:00	23051	2_60	2010	326	200	70.72	29.66	24.36	0	11.98	183.3	129	13.7
11/22/2010 3:00	23052	2_60	2010	326	300	67.11	30.5	24.36	0	14.3	214.9	215	13.7
11/22/2010 4:00	23053	2_60	2010	326	400	68.87	29.04	24.37	0	6.758	200.1	310	13.71
11/22/2010 5:00	23054	2_60	2010	326	500	75.74	25.97	24.38	0	5.734	183.3	413	13.73
11/22/2010 6:00	23055	2_60	2010	326	600	72.84	27.95	24.37	0	7.578	177.1	557	13.74
11/22/2010 7:00	23056	2_60	2010	326	700	69.08	29.07	24.37	0.155	9.45	179	643	13.73
11/22/2010 8:00	23057	2_60	2010	326	800	64.59	30.15	24.39	18.17	11.33	190.4	729	13.71
11/22/2010 9:00	23058	2_60	2010	326	900	62.7	31.09	24.41	81.6	10.17	182.2	839	13.69
11/22/2010 10:00	23059	2_60	2010	326	1000	60.1	31.89	24.42	148.3	11.95	232.6	921	13.67
11/22/2010 11:00	23060	2_60	2010	326	1100	56.67	32.95	24.43	209	10.65	201.8	1032	13.65
11/22/2010 12:00	23061	2_60	2010	326	1200	50.5	34.14	24.43	172.6	13.14	184.7	1157	13.63
11/22/2010 13:00	23062	2_60	2010	326	1300	53.25	34.5	24.42	229.3	12.46	201	1214	13.62
11/22/2010 14:00	23063	2_60	2010	326	1400	47.05	35.79	24.42	161.3	7.031	203.5	1310	13.6
11/22/2010 15:00	23064	2_60	2010	326	1500	44.07	36.61	24.44	129.1	10.1	226.1	1448	13.58
11/22/2010 16:00	23065	2_60	2010	326	1600	45.5	36.6	24.45	71.39	8.98	226.2	1504	13.57
11/22/2010 17:00	23066	2_60	2010	326	1700	45.59	36.38	24.48	35.29	8.77	232.5	1622	13.57
11/22/2010 18:00	23067	2_60	2010	326	1800	43.92	35.55	24.49	0.544	9.35	224	1704	13.58
11/22/2010 19:00	23068	2_60	2010	326	1900	40.78	34.87	24.5	0	8.06	130.5	1845	13.6
11/22/2010 20:00	23069	2_60	2010	326	2000	40.25	33.98	24.51	0	7.612	80.2	1959	13.63
11/22/2010 21:00	23070	2_60	2010	326	2100	40.03	33.14	24.52	0	9.86	131	2041	13.65
11/22/2010 22:00	23071	2_60	2010	326	2200	48.45	29.78	24.53	0	6.519	157.6	2123	13.66
11/22/2010 23:00	23072	2_60	2010	326	2300	51.77	29.04	24.53	0	8.02	158.6	2243	13.7
11/23/2010 0:00	23073	2_60	2010	327	0	52.82	28.48	24.52	0	6.417	164.6	2302	13.7
11/23/2010 1:00	23074	2_60	2010	327	100	60.8	25.68	24.52	0	3.311	330.5	43	13.74
11/23/2010 2:00	23075	2_60	2010	327	200	69.35	23.48	24.51	0	2.662	265.3	104	13.77
11/23/2010 3:00	23076	2_60	2010	327	300	70.18	23.15	24.51	0	2.628	164.7	245	13.79
11/23/2010 4:00	23077	2_60	2010	327	400	69.25	23.1	24.5	0	2.321	258.9	341	13.81
11/23/2010 5:00	23078	2_60	2010	327	500	73.54	21.68	24.49	0	2.799	11.95	430	13.82
11/23/2010 6:00	23079	2_60	2010	327	600	72.51	22.09	24.47	0	3.277	11.99	526	13.83
11/23/2010 7:00	23080	2_60	2010	327	700	74.33	21.33	24.47	0.293	2.116	296.7	600	13.83
11/23/2010 8:00	23081	2_60	2010	327	800	74.15	22.06	24.46	49.2	2.594	183	746	13.84
11/23/2010 9:00	23082	2_60	2010	327	900	60.05	30.71	24.46	218.4	1.638	260.4	818	13.79
11/23/2010 10:00	23083	2_60	2010	327	1000	50.87	33.19	24.44	363.7	3.311	298.5	942	13.7
11/23/2010 11:00	23084	2_60	2010	327	1100	37.55	38.88	24.4	488.1	8.77	126.3	1029	13.6
11/23/2010 12:00	23085	2_60	2010	327	1200	30.32	42.06	24.36	554.1	11.16	109.8	1130	13.5
11/23/2010 13:00	23086	2_60	2010	327	1300	29.77	42.33	24.31	418.3	13.62	250	1229	13.43
11/23/2010 14:00	23087	2_60	2010	327	1400	28.59	41.94	24.27	216.7	12.94	173.4	1320	13.43
11/23/2010 15:00	23088	2_60	2010	327	1500	27.19	43.81	24.25	301.3	13.38	218.4	1418	13.43
11/23/2010 16:00	23089	2_60	2010	327	1600	29.09	42.75	24.24	135	15.6	185.3	1522	13.42
11/23/2010 17:00	23090	2_60	2010	327	1700	32.55	42.35	24.22	30.65	16.18	147.6	1611	13.45
11/23/2010 18:00	23091	2_60	2010	327	1800	35.45	41.78	24.21	0.64	13.48	113.7	1717	13.47
11/23/2010 19:00	23092	2_60	2010	327	1900	36.81	41.47	24.2	0	12.46	204.2	1806	13.49
11/23/2010 20:00	23093	2_60	2010	327	2000	36.52	40.79	24.18	0	9.08	242.3	1933	13.51
11/23/2010 21:00	23094	2_60	2010	327	2100	36.7	39.79	24.17	0	9.22	246.5	2029	13.52
11/23/2010 22:00	23095	2_60	2010	327	2200	37.2	39.67	24.16	0	7.68	235.1	2142	13.53
11/23/2010 23:00	23096	2_60	2010	327	2300	37.94	39.79	24.18	0	11.5	130.6	2209	13.53

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
11/24/2010 0:00	23097	2_60	2010	328	0	4.682365	252.6125	29.06762	-10.54	96.4	7.243	102.9	4.007	3.945	-0.06206105
11/24/2010 1:00	23098	2_60	2010	328	100	4.556901	197.2807	51.31161	-19.34	126.4	-3.848	132.8	3.509	3.432	-0.07743867
11/24/2010 2:00	23099	2_60	2010	328	200	4.288727	172.8409	69.6215	16.29	129.2	31.67	135.7	2.93	2.93	3.79E-05
11/24/2010 3:00	23100	2_60	2010	328	300	3.877961	190.1352	68.87108	-8.66	126.6	6.584	132.5	2.613	2.52	-0.09265482
11/24/2010 4:00	23101	2_60	2010	328	400	3.397228	172.567	62.17612	-15.42	127.4	-1.978	131	2.345	2.188	-0.1571808
11/24/2010 5:00	23102	2_60	2010	328	500	4.740446	220.7094	51.75015	-15.02	135.5	5.459	141.5	1.939	1.762	-0.1771006
11/24/2010 6:00	23103	2_60	2010	328	600	6.090872	258.2039	14.46062	13.38	55.46	42.22	68.19	-1.071	-1.153	-0.08175285
11/24/2010 7:00	23104	2_60	2010	328	700	7.009821	254.1264	10.13661	17.26	60.71	55.01	70.53	-2.074	-2.086	-0.01160188
11/24/2010 8:00	23105	2_60	2010	328	800	7.813577	238.3444	10.61431	15.42	67.49	66.66	82.1	-3.001	-3.105	-0.104528
11/24/2010 9:00	23106	2_60	2010	328	900	4.896478	236.0809	14.00419	13.58	50.66	45.39	58.1	-3.46	-3.726	-0.2656019
11/24/2010 10:00	23107	2_60	2010	328	1000	2.416541	325.2239	38.47491	10.2	23.33	12.88	28.67	-3.25	-3.649	-0.3988509
11/24/2010 11:00	23108	2_60	2010	328	1100	3.433124	9.629338	13.36875	18.01	27.58	4.407	29.31	-3.393	-3.982	-0.5894012
11/24/2010 12:00	23109	2_60	2010	328	1200	3.202666	338.4688	42.41812	18.75	61.85	16.36	68.27	-2.671	-3.404	-0.733487
11/24/2010 13:00	23110	2_60	2010	328	1300	7.705126	236.3665	11.20944	17.31	63.34	71.55	75.15	-2.462	-3.215	-0.7530366
11/24/2010 14:00	23111	2_60	2010	328	1400	4.953043	259.0812	16.69432	22.19	55.62	46.25	65.53	-1.856	-2.794	-0.9375369
11/24/2010 15:00	23112	2_60	2010	328	1500	3.118302	353.322	36.48306	17.86	43.76	6.923	47.03	-2.02	-2.72	-0.7000009
11/24/2010 16:00	23113	2_60	2010	328	1600	4.545345	19.80152	15.61574	24.61	29.24	6.759	35.27	-2.857	-3.376	-0.5191645
11/24/2010 17:00	23114	2_60	2010	328	1700	3.017459	3.921932	25.3654	19.5	26.03	7.627	27.44	-4.027	-3.786	0.2407411
11/24/2010 18:00	23115	2_60	2010	328	1800	1.507779	131.0414	40.75181	3.007	16.81	4.058	17.78	-6.415	-4.834	1.581158
11/24/2010 19:00	23116	2_60	2010	328	1900	1.909532	91.71183	31.68246	7.86	20.46	4.541	18.78	-7.398	-5.487	1.911047
11/24/2010 20:00	23117	2_60	2010	328	2000	1.754788	118.7929	20.94246	1.343	11.31	1.015	10.85	-8.53	-5.883	2.645416
11/24/2010 21:00	23118	2_60	2010	328	2100	2.839513	134.5596	18.4207	6.763	15.53	15.05	19.27	-8.93	-6.676	2.251151
11/24/2010 22:00	23119	2_60	2010	328	2200	1.61723	126.5607	25.13889	2.272	13.39	3.465	14.37	-9.51	-6.772	2.736833
11/24/2010 23:00	23120	2_60	2010	328	2300	2.09547	149.6213	16.6566	0.746	13.57	4.862	14.37	-9.91	-7.691	2.21716
11/25/2010 0:00	23121	2_60	2010	329	0	0.7957576	185.0114	37.46331	1.92	7.856	0.109	2.851	-11.13	-8.87	2.255771
11/25/2010 1:00	23122	2_60	2010	329	100	1.054655	216.6712	31.52336	2.069	11.55	2.701	9.5	-11.91	-9.73	2.180514
11/25/2010 2:00	23123	2_60	2010	329	200	0.761457	258.576	18.84712	1.422	5.98	-0.147	1.882	-11.88	-10.25	1.626219
11/25/2010 3:00	23124	2_60	2010	329	300	1.207638	283.8595	46.02759	2.383	15.28	0.957	11.85	-13.2	-11.72	1.476494
11/25/2010 4:00	23125	2_60	2010	329	400	2.182138	149.4331	26.69471	3.995	21.55	9.61	24.16	-13.92	-12.13	1.796305
11/25/2010 5:00	23126	2_60	2010	329	500	1.714427	135.018	40.8419	9.86	22.88	11.92	27.04	-14.19	-12.87	1.315367
11/25/2010 6:00	23127	2_60	2010	329	600	1.134104	229.283	44.35321	1.852	12.69	0.879	9.71	-15.27	-13.16	2.110148
11/25/2010 7:00	23128	2_60	2010	329	700	1.994429	306.1054	10.66314	10.45	9.77	2.092	6.594	-16.44	-15.15	1.288184
11/25/2010 8:00	23129	2_60	2010	329	800	0.5728139	123.1477	29.90696	0.253	3.915	-0.092	1.956	-15.39	-14.15	1.236785
11/25/2010 9:00	23130	2_60	2010	329	900	1.003771	325.3948	37.95113	5.391	18.79	4.606	15.84	-12.14	-12.6	-0.4667263
11/25/2010 10:00	23131	2_60	2010	329	1000	1.296437	288.9358	22.3708	2.645	34.75	2.94	31.8	-10.39	-11.13	-0.7365295
11/25/2010 11:00	23132	2_60	2010	329	1100	2.139074	313.9588	18.66781	9.79	42.63	4.869	43.32	-8.54	-9.4	-0.8609583
11/25/2010 12:00	23133	2_60	2010	329	1200	1.838676	306.4275	24.74483	7.142	42.01	3.561	41.08	-6.86	-7.744	-0.8842329
11/25/2010 13:00	23134	2_60	2010	329	1300	1.373835	283.0676	30.3416	10.36	49.89	9.98	47.14	-5.182	-5.965	-0.7825518
11/25/2010 14:00	23135	2_60	2010	329	1400	1.08811	311.5222	50.00463	7.938	46.17	7.382	44.03	-3.477	-4.286	-0.8089378
11/25/2010 15:00	23136	2_60	2010	329	1500	1.643826	268.8542	31.07452	8.45	38.76	13.34	37.1	-2.423	-3.254	-0.8315618
11/25/2010 16:00	23137	2_60	2010	329	1600	2.355252	266.2219	16.60732	8.22	21.97	17.11	21.51	-3.267	-3.279	-0.01211781
11/25/2010 17:00	23138	2_60	2010	329	1700	3.433292	258.811	6.123204	10.63	17.46	28.76	20.43	-5.336	-3.436	1.900136
11/25/2010 18:00	23139	2_60	2010	329	1800	3.511395	234.7118	38.69111	16.97	19.03	38.07	25.09	-6.173	-4.061	2.111609
11/25/2010 19:00	23140	2_60	2010	329	1900	1.095819	170.7951	30.39331	2.216	8.25	0.444	5.563	-7.943	-4.818	3.12442
11/25/2010 20:00	23141	2_60	2010	329	2000	0.7638996	231.4017	22.35327	1.318	6.347	-0.241	0.165	-8.72	-5.32	3.39664
11/25/2010 21:00	23142	2_60	2010	329	2100	0.6392046	226.4461	36.23459	0.957	5.105	-0.233	0.141	-8.7	-6.009	2.687603
11/25/2010 22:00	23143	2_60	2010	329	2200	0.3735856	264.178	33.56382	0.169	4.179	-0.149	1.662	-9.48	-6.505	2.973526
11/25/2010 23:00	23144	2_60	2010	329	2300	0.5644194	234.3813	24.88736	1.363	4.837	-0.234	0.414	-9.64	-7.084	2.557034
11/26/2010 0:00	23145	2_60	2010	330	0	0.8143057	283.963	15.00816	1.325	7.984	-0.03	2.074	-10.2	-7.912	2.291307
11/26/2010 1:00	23146	2_60	2010	330	100	0.5419185	122.3901	35.74379	-0.374	3.51	-0.263	0.103	-10.23	-7.948	2.27998
11/26/2010 2:00	23147	2_60	2010	330	200	0.6068055	293.343	29.60506	1.416	8.07	0.302	3.526	-10.47	-8.68	1.793499
11/26/2010 3:00	23148	2_60	2010	330	300	0.9045327	113.6742	26.49654	0.012	1.685	-0.188	0.146	-10.81	-9.28	1.534316
11/26/2010 4:00	23149	2_60	2010	330	400	0.832336	282.2505	27.86246	2.444	6.177	-0.231	0.713	-11.58	-9.52	2.052575
11/26/2010 5:00	23150	2_60	2010	330	500	0.7074659	353.6335	32.73506	2.083	6.055	-0.257	0.163	-11.79	-10.06	1.729552
11/26/2010 6:00	23151	2_60	2010	330	600	0.5379382	293.5651	28.77826	0.349	3.62	-0.275	0.101	-12.36	-10.78	1.579151
11/26/2010 7:00	23152	2_60	2010	330	700	1.172479	271.2656	16.34071	2.741	10.15	3.027	8.9	-12.57	-10.48	2.092083
11/26/2010 8:00	23153	2_60	2010	330	800	0.2887109	243.0209	27.22405	0.23	3.053	-0.137	1.312	-11.75	-10.55	1.199786
11/26/2010 9:00	23154	2_60	2010	330	900	0.632462	298.1924	22.94472	-0.792	14.81	0.05	11.85	-9.78	-10.15	-0.3709237
11/26/2010 10:00	23155	2_60	2010	330	1000	0.5626011	3.58533	46.26216	-1.857	35.14	-4.32	32.66	-7.658	-8.24	-0.5851242
11/26/2010 11:00	23156	2_60	2010	330	1100	0.5150707	112.2253	51.12226	4.281	49.13	6.815	49.95	-5.305	-6.112	-0.8072581
11/26/2010 12:00	23157	2_60	2010	330	1200	1.096105	313.872	45.24111	1.601	43.09	-0.059	40.15	-3.51	-4.356	-0.846633
11/26/2010 13:00	23158	2_60	2010	330	1300	1.109586	297.3456	34.89986	8.59	45.91	6.659	43.12	-1.973	-2.742	-0.7685425
11/26/2010 14:00	23159	2_60	2010	330	1400	1.432913	278.0997	28.2581	6.318	44.31	6.872	41.26	-0.109	-0.932	-0.8231958
11/26/2010 15:00	23160	2_60	2010	330	1500	1.456322	262.7073	26.7002	13.09	38.96	17.49	39.09	1.09	0.287	-0.8030487
11/26/2010 16:00	23161	2_60	2010	330	1600	1.456634	241.2023	11.0022	2.489	13.66	3.935	16.01	-0.34	0.339	0.6783221
11/26/2010 17:00	23162	2_60	2010	330	1700	1.084989	210.1472	12.6233	1.206	3.613	1.149	4.677	-3.272	0.46	3.73295
11/26/2010 18:00	23163	2_60	2010	330	1800	1.104981	179.4709	13.49138	1.064	6.02	1.803	6.402	-3.302	0.215	3.517567
11/26/2010 19:00	23164	2_60	2010	330	1900	1.122812	228.7884	25.03014	2.224	6.159	1.869	5.747	-2.889	-0.227	2.66269
11/26/2010 20:00	23165	2_60	2010	330	2000	1.093146	220.3122	18.93612	2.866	5.865	2.952	7.382	-4.008	-0.469	3.539063
11/26/2010 21:00	23166	2_60	2010	330	2100	1.083362	269.2176	20.33591	4.737	10.2	1.965	6.597	-4.233	-1.575	2.658261
11/26/2010 22:00	23167	2_60	2010	330	2200	0.5916162	244.9599	16.86216	1.293	5.044	0.037	2.069	-5.296	-2.552	2.74405
11/26/2010 23:00	23168	2_60	2010	330	2300	0.2543501	217.3105	21.09807	0.109	4.785	-0.146	2.17	-6.239	-3.192	3.047762

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/24/2010 0:00	23097	2_60	2010	328	0	40.06	39.56	24.18	0	12.49	269.1	2356	13.52
11/24/2010 1:00	23098	2_60	2010	328	100	42.16	38.7	24.16	0	12.83	264.4	33	13.52
11/24/2010 2:00	23099	2_60	2010	328	200	44.34	37.67	24.17	0	13.18	251.8	139	13.54
11/24/2010 3:00	23100	2_60	2010	328	300	45.86	37.05	24.17	0	12.97	233.3	222	13.55
11/24/2010 4:00	23101	2_60	2010	328	400	45.5	36.55	24.17	0	15.6	187	333	13.55
11/24/2010 5:00	23102	2_60	2010	328	500	47.52	35.84	24.18	0.001	13.11	214.1	417	13.56
11/24/2010 6:00	23103	2_60	2010	328	600	81.5	30.33	24.21	0.006	12.39	272.2	508	13.57
11/24/2010 7:00	23104	2_60	2010	328	700	76.19	28.51	24.24	0.098	11.54	254.6	651	13.62
11/24/2010 8:00	23105	2_60	2010	328	800	70.4	26.94	24.26	14.71	12.56	222.2	711	13.65
11/24/2010 9:00	23106	2_60	2010	328	900	70.45	26.08	24.28	63.5	9.56	241.6	831	13.67
11/24/2010 10:00	23107	2_60	2010	328	1000	69.44	26.67	24.3	80.5	5.769	243	906	13.68
11/24/2010 11:00	23108	2_60	2010	328	1100	58.24	26.48	24.32	143.1	6.042	354.3	1040	13.67
11/24/2010 12:00	23109	2_60	2010	328	1200	45.14	28.17	24.31	434.2	8.57	249.9	1158	13.66
11/24/2010 13:00	23110	2_60	2010	328	1300	38.41	27.85	24.32	282.8	11.26	234.9	1216	13.63
11/24/2010 14:00	23111	2_60	2010	328	1400	37.25	29.3	24.33	432.5	9.18	252.6	1310	13.62
11/24/2010 15:00	23112	2_60	2010	328	1500	35.25	29.43	24.33	257.4	7.509	349.5	1424	13.57
11/24/2010 16:00	23113	2_60	2010	328	1600	29.72	27.26	24.35	102.1	7.031	26.57	1515	13.6
11/24/2010 17:00	23114	2_60	2010	328	1700	32.17	25.28	24.36	24.74	6.758	10.19	1608	13.66
11/24/2010 18:00	23115	2_60	2010	328	1800	44.24	20.85	24.38	0.535	3.994	70.4	1759	13.73
11/24/2010 19:00	23116	2_60	2010	328	1900	41.94	19.13	24.4	0	4.335	25.11	1809	13.8
11/24/2010 20:00	23117	2_60	2010	328	2000	45.66	17.13	24.41	0	3.277	75.04	1903	13.85
11/24/2010 21:00	23118	2_60	2010	328	2100	45.54	16.38	24.43	0	5.427	125.8	2043	13.89
11/24/2010 22:00	23119	2_60	2010	328	2200	46.28	15.5	24.43	0	3.789	125.9	2104	13.91
11/24/2010 23:00	23120	2_60	2010	328	2300	46.82	14.55	24.45	0	5.018	123.6	2227	13.93
11/25/2010 0:00	23121	2_60	2010	329	0	52.48	12.79	24.46	0	2.389	138.8	2347	13.95
11/25/2010 1:00	23122	2_60	2010	329	100	57.25	11.21	24.47	0	2.321	173.2	23	13.98
11/25/2010 2:00	23123	2_60	2010	329	200	55.12	11.12	24.47	0	2.458	265.7	100	14
11/25/2010 3:00	23124	2_60	2010	329	300	62.62	9.06	24.51	0	3.652	288.6	226	14.02
11/25/2010 4:00	23125	2_60	2010	329	400	65.93	7.534	24.52	0	6.144	135.9	305	14.03
11/25/2010 5:00	23126	2_60	2010	329	500	67.14	6.69	24.54	0	5.257	136.1	430	14.05
11/25/2010 6:00	23127	2_60	2010	329	600	69.07	5.23	24.56	0	3.823	131.7	527	14.07
11/25/2010 7:00	23128	2_60	2010	329	700	74.65	2.481	24.58	0.161	3.482	303.2	607	14.09
11/25/2010 8:00	23129	2_60	2010	329	800	68.83	5.22	24.62	41.16	2.185	116.6	757	14.1
11/25/2010 9:00	23130	2_60	2010	329	900	53.41	12.46	24.65	214.3	2.492	297.1	843	14.06
11/25/2010 10:00	23131	2_60	2010	329	1000	43.2	15.58	24.65	370	3.311	340.3	950	13.97
11/25/2010 11:00	23132	2_60	2010	329	1100	35.06	18.32	24.65	488.2	3.857	319.2	1057	13.86
11/25/2010 12:00	23133	2_60	2010	329	1200	28.72	21.47	24.64	551.9	3.789	320.7	1101	13.76
11/25/2010 13:00	23134	2_60	2010	329	1300	21.65	25.14	24.64	555.5	3.277	293.2	1217	13.66
11/25/2010 14:00	23135	2_60	2010	329	1400	17.69	28.23	24.62	497.3	3.038	236.2	1349	13.57
11/25/2010 15:00	23136	2_60	2010	329	1500	18.09	29.93	24.63	382.5	4.198	263.9	1454	13.52
11/25/2010 16:00	23137	2_60	2010	329	1600	26.16	27.48	24.64	177.3	3.584	234.4	1512	13.52
11/25/2010 17:00	23138	2_60	2010	329	1700	35.48	22.98	24.66	11.85	4.71	236.7	1655	13.62
11/25/2010 18:00	23139	2_60	2010	329	1800	34.68	21.53	24.67	0.51	5.53	237.6	1706	13.71
11/25/2010 19:00	23140	2_60	2010	329	1900	43.3	18.19	24.7	0	2.56	79.13	1802	13.79
11/25/2010 20:00	23141	2_60	2010	329	2000	48.43	16.65	24.71	0	1.638	294.6	1908	13.84
11/25/2010 21:00	23142	2_60	2010	329	2100	47.42	16.93	24.73	0	1.741	50.99	2016	13.88
11/25/2010 22:00	23143	2_60	2010	329	2200	52.54	15.35	24.74	0	1.024	338.7	2100	13.9
11/25/2010 23:00	23144	2_60	2010	329	2300	52.53	15.13	24.75	0	1.263	243.4	2253	13.92
11/26/2010 0:00	23145	2_60	2010	330	0	56.48	14.25	24.76	0	1.946	303.3	2322	13.93
11/26/2010 1:00	23146	2_60	2010	330	100	55.27	14.29	24.76	0	1.263	150.3	18	13.94
11/26/2010 2:00	23147	2_60	2010	330	200	57.04	13.71	24.78	0	1.536	297.3	125	13.95
11/26/2010 3:00	23148	2_60	2010	330	300	59.9	12.94	24.78	0	2.048	94.5	233	13.96
11/26/2010 4:00	23149	2_60	2010	330	400	64.42	11.67	24.78	0	1.707	303.3	326	13.97
11/26/2010 5:00	23150	2_60	2010	330	500	64.33	11.52	24.79	0	1.741	296	430	13.97
11/26/2010 6:00	23151	2_60	2010	330	600	69.73	9.96	24.79	0	1.468	294.9	557	13.99
11/26/2010 7:00	23152	2_60	2010	330	700	68.74	10.02	24.81	0.184	2.662	291.7	631	14
11/26/2010 8:00	23153	2_60	2010	330	800	67.09	11.66	24.82	35.83	1.161	294.5	754	14
11/26/2010 9:00	23154	2_60	2010	330	900	55.23	17.21	24.83	203.1	1.843	2.685	855	13.95
11/26/2010 10:00	23155	2_60	2010	330	1000	45.4	20.81	24.83	356.6	1.946	29.86	952	13.87
11/26/2010 11:00	23156	2_60	2010	330	1100	37.8	25.05	24.82	473.6	1.843	146.6	1051	13.76
11/26/2010 12:00	23157	2_60	2010	330	1200	33.14	28.08	24.79	536.1	3.925	322.9	1139	13.65
11/26/2010 13:00	23158	2_60	2010	330	1300	29.34	30.73	24.76	539.9	3.14	331.6	1231	13.56
11/26/2010 14:00	23159	2_60	2010	330	1400	26.44	34.16	24.74	482.8	3.584	280.2	1334	13.48
11/26/2010 15:00	23160	2_60	2010	330	1500	24.95	36.26	24.72	371	2.935	211.5	1448	13.43
11/26/2010 16:00	23161	2_60	2010	330	1600	31.39	32.73	24.71	169.1	2.697	269.8	1503	13.4
11/26/2010 17:00	23162	2_60	2010	330	1700	43.68	26.85	24.7	11.31	2.014	216.5	1621	13.51
11/26/2010 18:00	23163	2_60	2010	330	1800	43.03	26.34	24.7	0.485	2.048	167.4	1737	13.64
11/26/2010 19:00	23164	2_60	2010	330	1900	40.56	27.3	24.71	0	2.423	203.5	1810	13.7
11/26/2010 20:00	23165	2_60	2010	330	2000	45.88	25.34	24.71	0	2.355	202.8	1941	13.73
11/26/2010 21:00	23166	2_60	2010	330	2100	44.77	24.97	24.71	0	2.014	310	2011	13.76
11/26/2010 22:00	23167	2_60	2010	330	2200	48.61	22.96	24.7	0	1.673	262.3	2133	13.79
11/26/2010 23:00	23168	2_60	2010	330	2300	51.78	21.49	24.69	0	0.99	246	2216	13.81

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
11/27/2010 0:00	23169	2_60	2010	331	0	0.5493497	271.3194	17.78543	0.151	4.462	-0.21	1.083	-6.607	-4.039	2.567967
11/27/2010 1:00	23170	2_60	2010	331	100	0.9105603	87.83916	28.65547	1.932	7.599	0.608	6.065	-7.581	-5.04	2.541058
11/27/2010 2:00	23171	2_60	2010	331	200	0.5488943	116.3909	17.96396	0.008	3.458	-0.35	1.365	-8.34	-5.35	2.993732
11/27/2010 3:00	23172	2_60	2010	331	300	0.2445071	189.3673	9.118444	-0.069	1.122	-0.199	0.147	-8.36	-5.727	2.628938
11/27/2010 4:00	23173	2_60	2010	331	400	0.407268	246.7644	25.0733	0.355	2.227	-0.259	0.104	-8.77	-6.131	2.633828
11/27/2010 5:00	23174	2_60	2010	331	500	1.260941	291.6142	17.9162	4.144	8.08	1.026	5.344	-8.7	-6.754	1.945711
11/27/2010 6:00	23175	2_60	2010	331	600	1.323458	310.6889	25.22361	0.31	8.78	1.202	5.324	-9.83	-8.32	1.506269
11/27/2010 7:00	23176	2_60	2010	331	700	0.6213906	89.28875	20.06159	0.186	2.189	-0.272	0.175	-10.01	-7.75	2.260307
11/27/2010 8:00	23177	2_60	2010	331	800	0.5396186	290.4427	15.56572	0.441	2.764	-0.283	0.085	-10.44	-8.05	2.393094
11/27/2010 9:00	23178	2_60	2010	331	900	0.5070451	125.0184	23.33037	4.058	13.49	3.049	11.78	-6.58	-6.905	-0.3249005
11/27/2010 10:00	23179	2_60	2010	331	1000	0.4190432	5.105863	49.97084	1.835	34.08	2.604	30.9	-4.405	-4.988	-0.5827419
11/27/2010 11:00	23180	2_60	2010	331	1100	0.7308784	308.7842	43.88651	-4.187	43.54	-5.937	41.22	-2.229	-2.938	-0.7080817
11/27/2010 12:00	23181	2_60	2010	331	1200	0.7997133	322.4232	40.87227	-3.431	48.38	-5.394	45.34	0.03	-0.649	-0.6794674
11/27/2010 13:00	23182	2_60	2010	331	1300	0.5506846	301.9776	50.68011	-6.782	47	-6.815	44.4	2.53	1.867	-0.6628053
11/27/2010 14:00	23183	2_60	2010	331	1400	0.5112604	83.47392	41.91264	-8.97	37.31	-7.288	36.54	4.799	4.027	-0.771535
11/27/2010 15:00	23184	2_60	2010	331	1500	1.193836	79.99281	41.02179	3.528	29.44	0.783	29.12	6.772	5.985	-0.7870778
11/27/2010 16:00	23185	2_60	2010	331	1600	1.791914	196.886	31.34672	5.594	19.75	12.82	22.18	4.602	6.15	1.548189
11/27/2010 17:00	23186	2_60	2010	331	1700	1.277579	129.3606	55.47149	0.634	25.71	0.365	24.91	2.765	6.177	3.41167
11/27/2010 18:00	23187	2_60	2010	331	1800	1.433285	280.4967	46.6521	8.39	21.15	8.29	19.51	1.789	4.889	3.099586
11/27/2010 19:00	23188	2_60	2010	331	1900	1.234177	239.5509	24.65286	2.421	8.47	2.102	6.239	0.974	4.489	3.514242
11/27/2010 20:00	23189	2_60	2010	331	2000	1.660813	245.8124	24.68272	7.116	11.78	5.086	9.54	0.995	5.178	4.182761
11/27/2010 21:00	23190	2_60	2010	331	2100	0.8246292	206.2798	37.42934	1.631	13.66	1.187	12.23	0.778	4.478	3.700196
11/27/2010 22:00	23191	2_60	2010	331	2200	1.870099	78.74306	25.80817	3.78	16.37	0.484	16.7	1.202	3.807	2.604754
11/27/2010 23:00	23192	2_60	2010	331	2300	1.529282	175.4926	29.21494	3.428	17.52	4.376	18.84	0.851	3.843	2.991605
11/28/2010 0:00	23193	2_60	2010	332	0	2.080564	179.7902	30.39314	11.59	24.27	23.15	31.21	2.431	4.797	2.365487
11/28/2010 1:00	23194	2_60	2010	332	100	3.151983	196.877	17.65043	4.405	42.95	22.61	49.36	3.781	5.837	2.056312
11/28/2010 2:00	23195	2_60	2010	332	200	4.505074	192.2834	23.75348	-8.77	84.4	15.7	91	5.871	5.966	0.09460473
11/28/2010 3:00	23196	2_60	2010	332	300	7.500306	162.9006	21.8446	-1.211	109.3	37.1	125.1	5.961	5.954	-0.007698477
11/28/2010 4:00	23197	2_60	2010	332	400	5.618876	162.6702	30.30242	8.71	88.8	38.09	98	5.359	5.407	0.04736427
11/28/2010 5:00	23198	2_60	2010	332	500	3.653537	256.4614	69.75636	19.66	96.6	26.43	103.2	4.571	4.779	0.2078469
11/28/2010 6:00	23199	2_60	2010	332	600	3.3097	84.39358	41.87309	2.96	85.6	1.476	90.9	4.752	4.81	0.05864765
11/28/2010 7:00	23200	2_60	2010	332	700	3.916562	123.3625	49.02166	6.183	89.7	16.28	96.6	4.766	4.822	0.05586194
11/28/2010 8:00	23201	2_60	2010	332	800	3.756082	239.268	68.5356	1.507	146.2	10.29	150.9	4.069	3.961	-0.1079164
11/28/2010 9:00	23202	2_60	2010	332	900	2.980089	193.6944	60.79984	8.05	111.8	22.35	116	2.56	2.356	-0.2046393
11/28/2010 10:00	23203	2_60	2010	332	1000	6.134057	173.9307	31.14067	7.541	98	41.3	113.2	2.116	1.804	-0.3120554
11/28/2010 11:00	23204	2_60	2010	332	1100	9.007283	181.0171	13.90533	8.16	105.4	64.89	124.4	1.533	1.119	-0.4139939
11/28/2010 12:00	23205	2_60	2010	332	1200	7.740289	186.641	12.69585	25.39	74.9	82	85.8	1.681	1.014	-0.6661368
11/28/2010 13:00	23206	2_60	2010	332	1300	7.831637	184.5779	11.40115	19.35	66.98	74.53	78.87	1.12	0.413	-0.7066007
11/28/2010 14:00	23207	2_60	2010	332	1400	6.065982	190.1598	31.72823	0.737	85.1	35.81	98.6	0.93	0.371	-0.5593881
11/28/2010 15:00	23208	2_60	2010	332	1500	3.331087	308.4492	46.43681	8.09	75.09	6.853	78.24	-1.089	-1.277	-0.1883655
11/28/2010 16:00	23209	2_60	2010	332	1600	1.917037	27.9559	38.00573	4.617	29.47	4.522	31.69	-1.444	-1.649	-0.2047757
11/28/2010 17:00	23210	2_60	2010	332	1700	1.647976	50.3254	58.03709	-0.976	32.89	-3.718	29.67	-1.681	-1.791	-0.1097468
11/28/2010 18:00	23211	2_60	2010	332	1800	3.069657	207.6511	49.47504	17.1	35.23	37.42	44.6	-1.704	-1.258	0.4462785
11/28/2010 19:00	23212	2_60	2010	332	1900	4.414224	225.6131	16.67875	12.9	46.91	44.94	54.72	-1.035	-0.88	0.155318
11/28/2010 20:00	23213	2_60	2010	332	2000	3.136361	247.0542	30.10332	11.46	44.4	30.29	53.29	-1.326	-0.916	0.4107461
11/28/2010 21:00	23214	2_60	2010	332	2100	3.313645	251.1274	47.65268	18.1	32.24	38.19	43.57	-1.406	-1.19	0.2161405
11/28/2010 22:00	23215	2_60	2010	332	2200	1.064758	12.22373	16.10211	2.416	15.23	0.038	13.75	-2.348	-2.48	-0.1323472
11/28/2010 23:00	23216	2_60	2010	332	2300	1.018536	148.9988	37.34889	-0.309	6	-0.204	2.785	-2.348	-2.332	0.01592262
11/29/2010 0:00	23217	2_60	2010	333	0	0.9533976	56.04992	42.54392	0.303	14.5	0.77	12.71	-2.538	-2.489	0.04921139
11/29/2010 1:00	23218	2_60	2010	333	100	1.237927	176.4066	31.73611	-0.752	5.197	-0.287	2.813	-3.107	-2.699	0.4075997
11/29/2010 2:00	23219	2_60	2010	333	200	1.58074	203.8678	44.9483	-0.723	14.42	2.874	14.59	-3.302	-3.309	-0.006937305
11/29/2010 3:00	23220	2_60	2010	333	300	1.062029	225.0313	16.85367	-0.442	4.041	0.053	2.303	-4.018	-3.91	0.1083451
11/29/2010 4:00	23221	2_60	2010	333	400	1.489183	244.217	18.54604	-2.334	5.063	-0.194	1.047	-4.386	-4.079	0.3075197
11/29/2010 5:00	23222	2_60	2010	333	500	0.8146492	259.567	22.78263	-1.356	3.389	-0.257	0.172	-5.034	-4.582	0.4517086
11/29/2010 6:00	23223	2_60	2010	333	600	0.6046721	94.38156	18.74178	-1.172	3.304	-0.145	0.817	-5.649	-5.335	0.3133877
11/29/2010 7:00	23224	2_60	2010	333	700	0.8959406	92.64549	22.70411	-0.303	0.668	-0.195	0.144	-6.447	-5.616	0.8308924
11/29/2010 8:00	23225	2_60	2010	333	800	0.5588446	271.653	43.22047	-0.259	0.389	-0.201	0.174	-6.82	-5.382	1.437437
11/29/2010 9:00	23226	2_60	2010	333	900	1.055284	278.8697	23.00383	0.876	9.74	1.251	8.37	-6.225	-4.713	1.511437
11/29/2010 10:00	23227	2_60	2010	333	1000	2.563746	287.1487	15.06327	1.592	17.46	2.302	20.27	-3.624	-3.437	0.1867415
11/29/2010 11:00	23228	2_60	2010	333	1100	6.088082	310.9496	9.791977	28.57	35.16	22.47	44.28	-2.352	-2.483	-0.1312122
11/29/2010 12:00	23229	2_60	2010	333	1200	9.022161	317.5638	8.843668	53.71	50.73	43.88	65.73	-1.515	-1.688	-0.1724909
11/29/2010 13:00	23230	2_60	2010	333	1300	8.670498	319.0492	9.430096	51.43	45.63	43.6	56.62	-1.44	-1.631	-0.1917987
11/29/2010 14:00	23231	2_60	2010	333	1400	6.668836	327.5066	13.72747	39.55	50.62	26.7	61.8	-1.145	-1.325	-0.1803799
11/29/2010 15:00	23232	2_60	2010	333	1500	6.423248	318.1877	10.124	41.09	38.18	34.51	46.51	-0.627	-0.71	-0.08367611
11/29/2010 16:00	23233	2_60	2010	333	1600	6.592583	313.3838	8.771686	45.39	35.71	41.78	42.22	-1.131	-0.692	0.4390886
11/29/2010 17:00	23234	2_60	2010	333	1700	5.860301	318.1055	12.17578	43.61	34.2	38.85	40.05	-2.883	-1.453	1.42933
11/29/2010 18:00	23235	2_60	2010	333	1800	2.56349	327.6227	15.40965	14.38	24.93	5.694	24.92	-3.808	-2.123	1.685815
11/29/2010 19:00	23236	2_60	2010	333	1900	1.132597	183.9611	41.5979	6.682	16.2	5.202	14.05	-6.199	-2.748	3.450613
11/29/2010 20:00	23237	2_60	2010	333	2000	1.103386	213.111	28.85591	3.251	14.49	3.599	13.75	-7.19	-2.814	4.376037
11/29/2010 21:00	23238	2_60	2010	333	2100	1.601587	168.1782	21.48273	3.702	12.15	6.587	14.74	-7.316	-2.942	4.37469
11/29/2010 22:00	23239	2_60	2010	333	2200	1.423583	148.7294	25.66351	1.774	12.73	1.651	10.92	-7.113	-3.868	3.245011
11/29/2010 23:00	23240	2_60	2010	333	2300	1.197305	229.9999	35.41006	6.124	20.45	7.614	19.39	-5.843	-4.174	1.669143

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/27/2010 0:00	23169	2_60	2010	331	0	54.6	20.71	24.68	0	1.775	299	2330	13.83
11/27/2010 1:00	23170	2_60	2010	331	100	59.75	19.01	24.67	0	1.98	60.2	11	13.85
11/27/2010 2:00	23171	2_60	2010	331	200	63.89	17.67	24.67	0	1.604	120.9	110	13.87
11/27/2010 3:00	23172	2_60	2010	331	300	64.06	17.58	24.66	0	1.092	193.5	205	13.89
11/27/2010 4:00	23173	2_60	2010	331	400	64.96	17.16	24.64	0	1.229	246.4	340	13.9
11/27/2010 5:00	23174	2_60	2010	331	500	66.29	16.75	24.63	0	3.516	296.4	454	13.91
11/27/2010 6:00	23175	2_60	2010	331	600	71.86	14.87	24.61	0	3.106	266.7	509	13.92
11/27/2010 7:00	23176	2_60	2010	331	700	72.02	14.7	24.6	0.165	1.741	69.16	600	13.93
11/27/2010 8:00	23177	2_60	2010	331	800	74.77	14.03	24.59	34.62	1.058	314.9	748	13.95
11/27/2010 9:00	23178	2_60	2010	331	900	59.64	22.66	24.57	204.7	1.468	150.7	817	13.91
11/27/2010 10:00	23179	2_60	2010	331	1000	48.96	27.18	24.54	359.8	1.195	308.1	939	13.81
11/27/2010 11:00	23180	2_60	2010	331	1100	42.93	30.59	24.52	477.4	2.287	316.4	1026	13.69
11/27/2010 12:00	23181	2_60	2010	331	1200	37.52	34.49	24.47	538.9	2.423	346.7	1101	13.58
11/27/2010 13:00	23182	2_60	2010	331	1300	30.49	39.4	24.44	544	1.98	296.8	1235	13.47
11/27/2010 14:00	23183	2_60	2010	331	1400	26.95	43.29	24.41	487.7	1.946	4.894	1300	13.38
11/27/2010 15:00	23184	2_60	2010	331	1500	26.05	45.88	24.39	377.2	3.209	88	1426	13.32
11/27/2010 16:00	23185	2_60	2010	331	1600	33.89	41.12	24.35	156.6	3.959	165.3	1542	13.32
11/27/2010 17:00	23186	2_60	2010	331	1700	38.81	37.68	24.31	26.17	3.413	131.9	1625	13.41
11/27/2010 18:00	23187	2_60	2010	331	1800	41.62	35.54	24.29	0.32	3.413	296.1	1750	13.51
11/27/2010 19:00	23188	2_60	2010	331	1900	42.92	34.38	24.27	0	3.277	302.5	1822	13.56
11/27/2010 20:00	23189	2_60	2010	331	2000	43.26	34.42	24.26	0	3.004	292	1919	13.6
11/27/2010 21:00	23190	2_60	2010	331	2100	43.73	33.94	24.24	0	2.526	76.71	2057	13.61
11/27/2010 22:00	23191	2_60	2010	331	2200	41.94	34.67	24.23	0	3.789	71.53	2143	13.61
11/27/2010 23:00	23192	2_60	2010	331	2300	43.63	33.93	24.22	0	2.799	165.9	2241	13.61
11/28/2010 0:00	23193	2_60	2010	332	0	36.24	36.89	24.2	0	5.222	210.6	2323	13.61
11/28/2010 1:00	23194	2_60	2010	332	100	32.28	39.07	24.17	0	7.475	183.6	54	13.59
11/28/2010 2:00	23195	2_60	2010	332	200	24.77	42.94	24.15	0	9.93	182.9	130	13.54
11/28/2010 3:00	23196	2_60	2010	332	300	24.19	43.06	24.13	0	15.12	168.4	255	13.5
11/28/2010 4:00	23197	2_60	2010	332	400	25.88	42.03	24.11	0.001	13.65	163.1	303	13.48
11/28/2010 5:00	23198	2_60	2010	332	500	23.5	40.62	24.08	0	15.26	126.8	446	13.49
11/28/2010 6:00	23199	2_60	2010	332	600	23.04	40.89	24.07	0	11.4	121.1	549	13.5
11/28/2010 7:00	23200	2_60	2010	332	700	23.62	40.96	24.05	0.065	11.78	125.8	641	13.5
11/28/2010 8:00	23201	2_60	2010	332	800	27.32	39.74	24.08	6.36	13.48	258.6	735	13.5
11/28/2010 9:00	23202	2_60	2010	332	900	37	37	24.08	43.38	11.16	141.5	842	13.51
11/28/2010 10:00	23203	2_60	2010	332	1000	41.11	36.16	24.08	94.4	14.23	163.3	936	13.53
11/28/2010 11:00	23204	2_60	2010	332	1100	52.14	35.05	24.07	137.4	16.9	174.7	1043	13.54
11/28/2010 12:00	23205	2_60	2010	332	1200	53.2	35.28	24.07	188	13.14	174	1105	13.54
11/28/2010 13:00	23206	2_60	2010	332	1300	59.76	34.3	24.05	197.5	11.91	183.8	1253	13.54
11/28/2010 14:00	23207	2_60	2010	332	1400	62.9	33.97	24.06	192	12.56	177.9	1312	13.54
11/28/2010 15:00	23208	2_60	2010	332	1500	86	30.31	24.08	56.25	8.5	314.2	1431	13.56
11/28/2010 16:00	23209	2_60	2010	332	1600	90.8	29.78	24.09	49.91	5.564	167.3	1507	13.59
11/28/2010 17:00	23210	2_60	2010	332	1700	94.9	29.22	24.11	15.14	3.618	36.88	1621	13.6
11/28/2010 18:00	23211	2_60	2010	332	1800	89.9	28.98	24.13	0.136	8.26	219.4	1758	13.62
11/28/2010 19:00	23212	2_60	2010	332	1900	79.01	30.47	24.14	0.002	9.32	219.6	1807	13.63
11/28/2010 20:00	23213	2_60	2010	332	2000	78.03	29.95	24.14	0.002	8.36	230.1	1958	13.64
11/28/2010 21:00	23214	2_60	2010	332	2100	78.74	29.91	24.16	0.002	8.16	236.5	2003	13.64
11/28/2010 22:00	23215	2_60	2010	332	2200	91.9	28.33	24.18	0.004	3.106	337.6	2104	13.64
11/28/2010 23:00	23216	2_60	2010	332	2300	93.8	27.97	24.19	0.005	2.185	174.6	2219	13.63
11/29/2010 0:00	23217	2_60	2010	333	0	84.8	27.67	24.21	0.004	2.389	87.8	2349	13.64
11/29/2010 1:00	23218	2_60	2010	333	100	84.7	26.76	24.22	0.004	2.697	164.7	58	13.64
11/29/2010 2:00	23219	2_60	2010	333	200	78.58	26.43	24.24	0.003	4.71	234	117	13.66
11/29/2010 3:00	23220	2_60	2010	333	300	84.8	25.2	24.27	0.002	2.423	242.3	211	13.66
11/29/2010 4:00	23221	2_60	2010	333	400	88.2	24.42	24.28	0.002	2.423	269.5	328	13.68
11/29/2010 5:00	23222	2_60	2010	333	500	89.3	23.35	24.31	0.001	2.526	273.2	402	13.69
11/29/2010 6:00	23223	2_60	2010	333	600	93.1	22.37	24.33	0.001	1.502	67.9	529	13.7
11/29/2010 7:00	23224	2_60	2010	333	700	92.8	20.86	24.36	0.019	1.843	69.17	605	13.73
11/29/2010 8:00	23225	2_60	2010	333	800	89.8	20.26	24.39	7.835	1.468	208.2	746	13.76
11/29/2010 9:00	23226	2_60	2010	333	900	78.18	22.66	24.43	62.2	3.243	261.2	820	13.79
11/29/2010 10:00	23227	2_60	2010	333	1000	64.5	28.26	24.46	144.4	6.144	319.4	948	13.75
11/29/2010 11:00	23228	2_60	2010	333	1100	61.54	29.48	24.47	384	10.79	336.9	1047	13.68
11/29/2010 12:00	23229	2_60	2010	333	1200	53.87	30.13	24.5	416.1	15.7	319.3	1101	13.61
11/29/2010 13:00	23230	2_60	2010	333	1300	53.61	30.43	24.51	447.7	13.62	314	1202	13.57
11/29/2010 14:00	23231	2_60	2010	333	1400	51.85	30.98	24.53	431.4	12.39	341	1355	13.54
11/29/2010 15:00	23232	2_60	2010	333	1500	50.87	32.02	24.56	363.6	10.07	324.1	1445	13.52
11/29/2010 16:00	23233	2_60	2010	333	1600	49.9	31.16	24.59	162.1	10.1	306.5	1510	13.51
11/29/2010 17:00	23234	2_60	2010	333	1700	54.07	27.51	24.62	15	11.74	314	1616	13.59
11/29/2010 18:00	23235	2_60	2010	333	1800	53.73	25.73	24.66	0.458	5.393	328.4	1700	13.67
11/29/2010 19:00	23236	2_60	2010	333	1900	62.48	21.34	24.68	0	2.97	323.1	1805	13.75
11/29/2010 20:00	23237	2_60	2010	333	2000	66.04	19.43	24.7	0	2.901	148	1952	13.81
11/29/2010 21:00	23238	2_60	2010	333	2100	63.27	19.75	24.71	0	3.345	179.9	2043	13.84
11/29/2010 22:00	23239	2_60	2010	333	2200	63.14	19.62	24.73	0	2.833	161	2138	13.86
11/29/2010 23:00	23240	2_60	2010	333	2300	63.67	21.81	24.75	0	3.243	288.8	2259	13.85

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
11/30/2010 0:00	23241	2_60	2010	334	0	2.665385	284.5378	6.558082	9.99	19	6.93	12.29	-6.653	-5.521	1.132055
11/30/2010 1:00	23242	2_60	2010	334	100	1.030597	165.9719	52.91386	1.301	7.99	0.22	4.743	-8.89	-5.379	3.509496
11/30/2010 2:00	23243	2_60	2010	334	200	1.292683	249.5076	36.38889	3.52	14.19	2.79	9.62	-9.1	-6.636	2.467934
11/30/2010 3:00	23244	2_60	2010	334	300	0.5915276	148.854	35.47107	-1.452	10.26	-1.231	6.457	-9.84	-6.533	3.303885
11/30/2010 4:00	23245	2_60	2010	334	400	0.9899489	170.5696	23.93558	-1.01	9.64	0.169	6.736	-10.5	-7.452	3.044611
11/30/2010 5:00	23246	2_60	2010	334	500	1.576188	143.2707	30.85615	5.838	27.75	9.28	30.81	-11.2	-8.27	2.937472
11/30/2010 6:00	23247	2_60	2010	334	600	0.6519119	184.2467	33.58037	0.667	9.51	-0.465	7.334	-12.11	-8.99	3.122958
11/30/2010 7:00	23248	2_60	2010	334	700	0.8890308	266.3598	14.47771	0.645	6.689	0.922	4.582	-12.04	-10.02	2.011801
11/30/2010 8:00	23249	2_60	2010	334	800	1.096048	241.7909	30.10911	-0.974	8.78	0.487	4.216	-12.6	-10.31	2.288383
11/30/2010 9:00	23250	2_60	2010	334	900	0.7157503	25.74475	23.15736	1.018	4.44	-0.327	1.517	-9.91	-9.56	0.3439323
11/30/2010 10:00	23251	2_60	2010	334	1000	0.9537116	280.5486	16.24492	4.502	19.32	4.705	15.99	-7.992	-8.54	-0.5509773
11/30/2010 11:00	23252	2_60	2010	334	1100	0.6275109	294.8895	34.51193	5.385	29.5	5.666	25.9	-6.425	-7.022	-0.597015
11/30/2010 12:00	23253	2_60	2010	334	1200	1.072009	294.5977	22.37751	4.057	28.55	3.921	25.54	-4.888	-5.441	-0.5533861
11/30/2010 13:00	23254	2_60	2010	334	1300	0.9702366	269.5203	21.10835	0.192	26.1	2.149	22.94	-3.429	-3.987	-0.5579593
11/30/2010 14:00	23255	2_60	2010	334	1400	0.6815274	308.29	33.74443	-2.07	29.27	-2.022	25.51	-1.465	-2.014	-0.5486921
11/30/2010 15:00	23256	2_60	2010	334	1500	1.024879	242.6944	23.73611	5.498	21.47	8.09	19.61	-0.503	-1.008	-0.5049658
11/30/2010 16:00	23257	2_60	2010	334	1600	1.213436	199.039	7.934483	1.475	5.192	1.854	6.784	-1.818	-0.334	1.483386
11/30/2010 17:00	23258	2_60	2010	334	1700	0.8089654	225.7728	19.07279	0.268	3.245	0.33	2.999	-3.882	-0.811	3.071554
11/30/2010 18:00	23259	2_60	2010	334	1800	1.521121	192.7305	9.89496	2.368	5.618	3.933	7.687	-5.123	-1.051	4.071773
11/30/2010 19:00	23260	2_60	2010	334	1900	1.334975	186.7468	14.50984	1.902	4.614	4.417	7.998	-5.139	-1.454	3.68513
11/30/2010 20:00	23261	2_60	2010	334	2000	0.7965004	187.557	16.38429	1.184	5.589	0.555	4.503	-3.948	-1.353	2.594992
11/30/2010 21:00	23262	2_60	2010	334	2100	0.7696813	243.0852	40.38694	0.542	5.476	0.098	1.751	-4.136	-2.119	2.016689
11/30/2010 22:00	23263	2_60	2010	334	2200	0.7288294	196.3632	25.69821	1.474	4.986	1.142	4.714	-3.992	-1.713	2.278749
11/30/2010 23:00	23264	2_60	2010	334	2300	0.9628944	276.1354	18.58644	3.337	5.008	0.28	3.065	-5.057	-2.887	2.170575
12/1/2010 0:00	23265	2_60	2010	335	0	0.874806	250.0468	16.71856	0.544	7.108	0.367	3.158	-5.925	-3.381	2.544178
12/1/2010 1:00	23266	2_60	2010	335	100	0.6656857	148.9144	31.63132	0.055	2.901	-0.177	0.315	-7.077	-3.717	3.359771
12/1/2010 2:00	23267	2_60	2010	335	200	0.7801133	267.0287	38.56886	1.187	5.19	1.82	6.646	-6.793	-4.017	2.776045
12/1/2010 3:00	23268	2_60	2010	335	300	1.325892	280.733	22.48418	1.186	8.6	0.692	3.715	-5.884	-4.819	1.065254
12/1/2010 4:00	23269	2_60	2010	335	400	1.538297	330.8176	30.70841	5.707	9.73	0.851	5.199	-6.156	-4.375	1.781052
12/1/2010 5:00	23270	2_60	2010	335	500	1.354096	241.7099	18.66411	4.362	8.56	1.337	6.373	-6.767	-6.084	0.6829452
12/1/2010 6:00	23271	2_60	2010	335	600	1.050167	121.4193	15.21893	-0.32	3.294	-0.721	2.899	-6.014	-5.375	0.6389486
12/1/2010 7:00	23272	2_60	2010	335	700	1.188462	143.9947	36.1228	0.666	5.556	0.742	6.068	-5.754	-4.926	0.8278259
12/1/2010 8:00	23273	2_60	2010	335	800	1.01238	64.83928	20.18863	0.223	2.058	-0.244	0.191	-5.372	-4.711	0.6607135
12/1/2010 9:00	23274	2_60	2010	335	900	0.7111961	125.2214	32.71793	1.292	7.097	0.187	3.96	-3.87	-3.859	0.01150232
12/1/2010 10:00	23275	2_60	2010	335	1000	0.9422755	306.2475	20.45481	7.53	14.15	3.431	10.18	-2.83	-3.217	-0.3874933
12/1/2010 11:00	23276	2_60	2010	335	1100	0.3755498	334.0596	33.71284	0.877	28.04	-0.063	23.38	-1.994	-2.404	-0.4093873
12/1/2010 12:00	23277	2_60	2010	335	1200	0.6658546	337.4514	54.83014	-3.011	28.97	-3.337	26.04	0.071	-0.385	-0.4555286
12/1/2010 13:00	23278	2_60	2010	335	1300	0.8715076	303.7636	36.3484	5.751	35.75	4.597	33.11	1.918	1.425	-0.4928968
12/1/2010 14:00	23279	2_60	2010	335	1400	0.6366126	287.0344	39.23459	2.77	34.92	3.276	32.56	3.017	2.509	-0.508599
12/1/2010 15:00	23280	2_60	2010	335	1500	1.066721	283.4198	20.81294	2.416	33.78	3.667	32	3.955	3.386	-0.5688999
12/1/2010 16:00	23281	2_60	2010	335	1600	0.7639883	224.3569	28.68044	1.375	5.974	2.306	7.577	2.343	3.472	1.129896
12/1/2010 17:00	23282	2_60	2010	335	1700	1.184283	189.996	18.35604	1.465	3.682	1.1	4.502	-0.078	3.526	3.60382
12/1/2010 18:00	23283	2_60	2010	335	1800	0.9500955	218.773	27.58142	2.296	6.018	0.733	3.622	-1.45	2.953	4.40318
12/1/2010 19:00	23284	2_60	2010	335	1900	1.361691	171.588	18.69299	2.329	5.401	2.274	6.888	-1.459	2.753	4.211745
12/1/2010 20:00	23285	2_60	2010	335	2000	0.9274574	175.8921	16.49534	0.409	2.691	0.373	3.277	-1.448	2.607	4.055552
12/1/2010 21:00	23286	2_60	2010	335	2100	0.8363469	211.6156	28.41844	2.441	6.147	1.649	5.915	-1.602	2.075	3.677891
12/1/2010 22:00	23287	2_60	2010	335	2200	0.4073527	279.9303	29.34855	2.18	7.001	0.894	5.321	-2.105	0.913	3.017941
12/1/2010 23:00	23288	2_60	2010	335	2300	1.837471	273.8492	18.28324	0.701	13.11	3.504	9.27	-2.87	-0.598	2.271483
12/2/2010 0:00	23289	2_60	2010	336	0	1.171937	263.0523	18.83656	4.97	8.77	1.776	6.021	-4.777	-0.698	4.07858
12/2/2010 1:00	23290	2_60	2010	336	100	1.191196	267.0533	15.08142	0.264	6.151	-0.161	0.511	-4.429	-1.27	3.159284
12/2/2010 2:00	23291	2_60	2010	336	200	0.9005232	188.6755	29.78376	0.533	2.632	-0.112	0.551	-4.904	-1.212	3.692268
12/2/2010 3:00	23292	2_60	2010	336	300	0.9018555	219.8263	43.04508	1.798	16.24	1.988	15.67	-5.219	-1.501	3.718278
12/2/2010 4:00	23293	2_60	2010	336	400	1.856935	294.9745	12.17166	6.308	13.92	2.389	6.664	-5.628	-3.034	2.593995
12/2/2010 5:00	23294	2_60	2010	336	500	1.226528	346.6776	25.17655	1.27	10.61	1.144	6.184	-6.2	-4.778	1.422041
12/2/2010 6:00	23295	2_60	2010	336	600	0.2255079	8.013212	31.97027	-0.292	0.032	-0.299	0.009	-6.455	-4.297	2.158087
12/2/2010 7:00	23296	2_60	2010	336	700	0.8321173	275.3446	12.1908	-0.908	4.716	-0.286	0.092	-6.472	-3.842	2.630544
12/2/2010 8:00	23297	2_60	2010	336	800	1.127937	283.505	10.77689	0.764	7.35	0.412	3.419	-6.347	-4.752	1.595338
12/2/2010 9:00	23298	2_60	2010	336	900	0.2600071	266.2775	17.61432	-0.14	0.696	-0.248	0.113	-5.209	-4.792	0.4172356
12/2/2010 10:00	23299	2_60	2010	336	1000	0.3730195	80.44019	27.15762	1.916	11.91	1.575	8.92	-3.315	-3.692	-0.3765838
12/2/2010 11:00	23300	2_60	2010	336	1100	0.8096126	339.7311	25.91619	7.998	24.48	5.03	20.96	-1.551	-1.942	-0.3914042
12/2/2010 12:00	23301	2_60	2010	336	1200	0.7878533	314.5363	34.54316	6.699	34.52	4.748	29.46	-0.468	-0.974	-0.5068758
12/2/2010 13:00	23302	2_60	2010	336	1300	0.4310179	352.2802	42.78695	1.478	35.49	0.346	32.28	1.14	0.703	-0.4368475
12/2/2010 14:00	23303	2_60	2010	336	1400	0.4554524	341.5674	39.04044	-8.98	33.81	-7.923	30.41	3.284	2.737	-0.5469927
12/2/2010 15:00	23304	2_60	2010	336	1500	0.9971442	288.0372	31.46135	-0.2	29.48	0.995	27.56	4.786	4.293	-0.4927582
12/2/2010 16:00	23305	2_60	2010	336	1600	0.7707276	227.1909	14.23959	0.291	2.407	-0.055	1.732	2.854	4.36	1.506776
12/2/2010 17:00	23306	2_60	2010	336	1700	0.4413731	194.5626	26.02794	-0.174	1.011	-0.237	0.482	0.462	4.57	4.108057
12/2/2010 18:00	23307	2_60	2010	336	1800	0.4047332	245.1763	16.2667	0.898	3.989	0.009	1.873	-0.494	4.254	4.747547
12/2/2010 19:00	23308	2_60	2010	336	1900	0.5240027	142.2436	16.37321	-0.206	0.636	-0.253	0.111	-0.265	3.716	3.98125
12/2/2010 20:00	23309	2_60	2010	336	2000	0.3284746	211.202	21.5999	0.225	3.838	-0.157	1.16	-0.42	3.938	4.357921
12/2/2010 21:00	23310	2_60	2010	336	2100	0.6138032	270.8804	27.12319	1.529	4.737	0.155	2.611	0.411	3.567	3.156091
12/2/2010 22:00	23311	2_60	2010	336	2200	0.4549118	238.4811	41.91361	0.905	3.659	-0.118	1.519	0.92	3.168	2.24754
12/2/2010 23:00	23312	2_60	2010	336	2300	0.6307272	248.8535	45.44953	0.783	3.345	-0.292	0.057	-0.025	2.729	2.753664

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
11/30/2010 0:00	23241	2_60	2010	334	0	66.16	20.48	24.76	0	4.198	296.6	2307	13.82
11/30/2010 1:00	23242	2_60	2010	334	100	71.37	16.47	24.76	0.001	2.833	129.8	29	13.84
11/30/2010 2:00	23243	2_60	2010	334	200	69.28	16.21	24.77	0	3.243	312	122	13.89
11/30/2010 3:00	23244	2_60	2010	334	300	71.91	14.73	24.78	0	1.57	82.8	251	13.92
11/30/2010 4:00	23245	2_60	2010	334	400	73.05	13.92	24.8	0	2.185	147.2	307	13.94
11/30/2010 5:00	23246	2_60	2010	334	500	76.18	12.31	24.81	0	5.53	134.7	449	13.96
11/30/2010 6:00	23247	2_60	2010	334	600	77.82	10.86	24.81	0	2.116	145.8	500	13.98
11/30/2010 7:00	23248	2_60	2010	334	700	79.11	10.82	24.84	0.088	2.185	290.4	658	14
11/30/2010 8:00	23249	2_60	2010	334	800	78.08	10.23	24.85	28.42	2.253	273.5	702	14.01
11/30/2010 9:00	23250	2_60	2010	334	900	67.24	17.13	24.87	191.9	1.57	309.5	851	13.98
11/30/2010 10:00	23251	2_60	2010	334	1000	54.45	21.6	24.88	346.3	2.048	297.2	943	13.89
11/30/2010 11:00	23252	2_60	2010	334	1100	49.37	24.71	24.87	462.7	2.219	308.4	1005	13.79
11/30/2010 12:00	23253	2_60	2010	334	1200	46.54	27.83	24.85	526.2	2.389	291.7	1135	13.67
11/30/2010 13:00	23254	2_60	2010	334	1300	44.33	30.24	24.84	529.7	2.389	316.2	1200	13.58
11/30/2010 14:00	23255	2_60	2010	334	1400	40.08	34	24.82	474.5	2.458	4.629	1329	13.5
11/30/2010 15:00	23256	2_60	2010	334	1500	37.2	34.92	24.81	364.2	1.946	234.2	1447	13.44
11/30/2010 16:00	23257	2_60	2010	334	1600	43.08	29.98	24.81	155.5	2.082	191.8	1553	13.45
11/30/2010 17:00	23258	2_60	2010	334	1700	49.63	25.63	24.8	14.07	2.048	225.5	1603	13.56
11/30/2010 18:00	23259	2_60	2010	334	1800	57.45	22.99	24.81	0.29	2.287	198.1	1757	13.67
11/30/2010 19:00	23260	2_60	2010	334	1900	60.26	22.98	24.81	0	2.185	199.8	1802	13.74
11/30/2010 20:00	23261	2_60	2010	334	2000	54.88	25.46	24.82	0	1.809	201.5	1906	13.75
11/30/2010 21:00	23262	2_60	2010	334	2100	62.82	24.95	24.82	0	1.877	275.5	2018	13.74
11/30/2010 22:00	23263	2_60	2010	334	2200	57.03	25.43	24.82	0	1.911	189	2144	13.74
11/30/2010 23:00	23264	2_60	2010	334	2300	54.25	23.38	24.82	0	2.287	301.1	2258	13.76
12/1/2010 0:00	23265	2_60	2010	335	0	58.37	21.92	24.82	0	2.492	248.6	2307	13.79
12/1/2010 1:00	23266	2_60	2010	335	100	64.52	19.66	24.8	0	1.468	267.5	35	13.82
12/1/2010 2:00	23267	2_60	2010	335	200	65.13	20.28	24.81	0	2.15	219.4	148	13.84
12/1/2010 3:00	23268	2_60	2010	335	300	68.4	21.8	24.8	0	2.321	274.5	232	13.82
12/1/2010 4:00	23269	2_60	2010	335	400	70.85	21.44	24.79	0.001	2.799	344.5	325	13.79
12/1/2010 5:00	23270	2_60	2010	335	500	74.1	20.24	24.78	0.001	2.662	346.6	410	13.8
12/1/2010 6:00	23271	2_60	2010	335	600	72.53	21.48	24.77	0	2.15	44.06	510	13.79
12/1/2010 7:00	23272	2_60	2010	335	700	73.81	22.02	24.78	0.002	2.731	58.79	625	13.77
12/1/2010 8:00	23273	2_60	2010	335	800	77.19	22.75	24.78	10.79	1.673	69.76	743	13.76
12/1/2010 9:00	23274	2_60	2010	335	900	59.74	26.23	24.79	121.8	1.707	112.7	821	13.74
12/1/2010 10:00	23275	2_60	2010	335	1000	54.74	28.5	24.8	145.3	2.082	303.1	937	13.69
12/1/2010 11:00	23276	2_60	2010	335	1100	51.96	30.91	24.78	239	1.741	353.4	1059	13.64
12/1/2010 12:00	23277	2_60	2010	335	1200	41.54	35.41	24.75	452.3	2.458	22.62	1133	13.57
12/1/2010 13:00	23278	2_60	2010	335	1300	30.17	39.79	24.73	563.9	2.731	353.3	1255	13.47
12/1/2010 14:00	23279	2_60	2010	335	1400	30.9	41.49	24.71	458.7	2.219	257.9	1334	13.39
12/1/2010 15:00	23280	2_60	2010	335	1500	31.08	42.7	24.69	350.9	2.423	252.3	1446	13.35
12/1/2010 16:00	23281	2_60	2010	335	1600	40.5	37.73	24.69	153.5	2.423	198.8	1557	13.35
12/1/2010 17:00	23282	2_60	2010	335	1700	51.28	32.37	24.69	14.78	2.219	192.2	1600	13.45
12/1/2010 18:00	23283	2_60	2010	335	1800	57.48	29.55	24.69	0.689	2.048	198.5	1748	13.56
12/1/2010 19:00	23284	2_60	2010	335	1900	56.64	29.72	24.7	0	2.389	196.4	1825	13.63
12/1/2010 20:00	23285	2_60	2010	335	2000	57.25	29.58	24.71	0	1.843	203.8	1959	13.67
12/1/2010 21:00	23286	2_60	2010	335	2100	56.31	29.53	24.7	0	1.843	215.4	2000	13.69
12/1/2010 22:00	23287	2_60	2010	335	2200	56.81	29.14	24.71	0	1.809	312.4	2100	13.7
12/1/2010 23:00	23288	2_60	2010	335	2300	59.69	27.49	24.71	0	3.516	278.2	2224	13.73
12/2/2010 0:00	23289	2_60	2010	336	0	70.18	24.08	24.72	0	1.877	307	2318	13.75
12/2/2010 1:00	23290	2_60	2010	336	100	67.53	24.63	24.71	0	1.638	259	36	13.77
12/2/2010 2:00	23291	2_60	2010	336	200	69.45	23.73	24.72	0	1.946	80.5	154	13.78
12/2/2010 3:00	23292	2_60	2010	336	300	69.92	23.42	24.72	0	3.004	136.1	225	13.79
12/2/2010 4:00	23293	2_60	2010	336	400	72.95	22.33	24.73	0	3.277	293.8	355	13.8
12/2/2010 5:00	23294	2_60	2010	336	500	75.49	21.33	24.73	0	2.833	291.4	410	13.81
12/2/2010 6:00	23295	2_60	2010	336	600	75.23	21.15	24.73	0	0.819	15.15	528	13.83
12/2/2010 7:00	23296	2_60	2010	336	700	75.34	21.2	24.75	0.059	1.434	242.1	605	13.84
12/2/2010 8:00	23297	2_60	2010	336	800	75.67	21.33	24.75	20.95	1.911	275.8	721	13.84
12/2/2010 9:00	23298	2_60	2010	336	900	77.21	23.45	24.76	90.8	1.092	245.1	816	13.82
12/2/2010 10:00	23299	2_60	2010	336	1000	69.48	27.8	24.77	175.8	1.638	15.92	910	13.76
12/2/2010 11:00	23300	2_60	2010	336	1100	60.32	31.13	24.76	255.1	2.15	349.5	1033	13.67
12/2/2010 12:00	23301	2_60	2010	336	1200	56.58	33.5	24.73	365.6	2.321	323.1	1106	13.6
12/2/2010 13:00	23302	2_60	2010	336	1300	51.72	36.9	24.71	348.7	1.946	3.538	1230	13.52
12/2/2010 14:00	23303	2_60	2010	336	1400	45.06	41.45	24.67	460.3	1.98	323.8	1302	13.44
12/2/2010 15:00	23304	2_60	2010	336	1500	41.52	43.78	24.66	339.8	2.628	273.8	1417	13.37
12/2/2010 16:00	23305	2_60	2010	336	1600	53.41	38.37	24.65	130.7	1.399	206.5	1504	13.36
12/2/2010 17:00	23306	2_60	2010	336	1700	63.59	33.72	24.65	10.92	1.502	203.4	1646	13.46
12/2/2010 18:00	23307	2_60	2010	336	1800	68.91	31.5	24.66	0.305	1.229	221.7	1740	13.55
12/2/2010 19:00	23308	2_60	2010	336	1900	66.84	31.91	24.66	0	1.229	46.72	1852	13.61
12/2/2010 20:00	23309	2_60	2010	336	2000	66.54	32.05	24.65	0	1.604	202.4	1925	13.65
12/2/2010 21:00	23310	2_60	2010	336	2100	67.26	33.28	24.66	0	1.502	211.3	2041	13.64
12/2/2010 22:00	23311	2_60	2010	336	2200	66.05	34.16	24.66	0	1.57	253.1	2108	13.63
12/2/2010 23:00	23312	2_60	2010	336	2300	68.83	32.46	24.65	0.002	1.399	27.44	2225	13.62

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
12/3/2010 0:00	23313	2_60	2010	337	0	0.5119694	295.2883	45.76405	0.783	3.699	-0.149	0.988	-1.07	1.784	2.854456
12/3/2010 1:00	23314	2_60	2010	337	100	1.00056	269.9399	16.94778	-0.709	6.419	0.402	2.6	-1.46	1.042	2.501949
12/3/2010 2:00	23315	2_60	2010	337	200	0.53043	160.7919	41.23917	0.476	4.588	0.236	3.372	-1.313	1.074	2.387705
12/3/2010 3:00	23316	2_60	2010	337	300	1.447307	278.9045	31.6817	4.071	9.43	1.865	5.953	-1.371	0.631	2.001645
12/3/2010 4:00	23317	2_60	2010	337	400	1.275384	304.6613	37.31341	4.686	7.518	0.61	4.326	-2.411	1.061	3.47255
12/3/2010 5:00	23318	2_60	2010	337	500	0.85359	285.4115	25.04918	2.114	8.33	0.292	2.985	-3.239	-1.474	1.76454
12/3/2010 6:00	23319	2_60	2010	337	600	0.9284018	212.2693	44.22223	0.346	5.143	0.745	5.044	-2.666	-0.359	2.307324
12/3/2010 7:00	23320	2_60	2010	337	700	0.7686224	81.57909	73.4492	0.381	5.99	-0.22	2.811	-1.696	0.31	2.005548
12/3/2010 8:00	23321	2_60	2010	337	800	1.446344	251.9246	48.70807	0.968	11.92	2.889	10.59	-0.677	1.155	1.831217
12/3/2010 9:00	23322	2_60	2010	337	900	1.287023	257.1799	44.70006	5.194	9.56	4.189	8.99	-0.264	0.32	0.5843884
12/3/2010 10:00	23323	2_60	2010	337	1000	0.8123702	332.9833	59.98719	2.373	10.33	0.591	6.72	-0.263	-0.136	0.1261979
12/3/2010 11:00	23324	2_60	2010	337	1100	1.025533	295.0184	50.99157	2.685	14.97	2.285	10.62	1.025	0.618	-0.407388
12/3/2010 12:00	23325	2_60	2010	337	1200	1.329233	305.8142	50.63898	7.409	20.67	5.133	15.54	2.005	1.588	-0.4175942
12/3/2010 13:00	23326	2_60	2010	337	1300	0.6285347	73.68775	47.70923	2.657	13.18	0.829	8.64	3.952	3.604	-0.3479087
12/3/2010 14:00	23327	2_60	2010	337	1400	0.8420107	334.5726	42.40679	3.382	18.38	2.257	13.43	5.732	5.367	-0.3650537
12/3/2010 15:00	23328	2_60	2010	337	1500	0.6422183	347.4327	40.47202	3.931	26.04	3.216	19.62	7.774	7.325	-0.4487007
12/3/2010 16:00	23329	2_60	2010	337	1600	1.188065	164.8489	32.38524	9.21	18.24	5.961	18.05	8.65	8.96	0.311404
12/3/2010 17:00	23330	2_60	2010	337	1700	0.9242969	261.562	65.18524	1.431	27.28	1.796	24.42	7.651	9.23	1.577252
12/3/2010 18:00	23331	2_60	2010	337	1800	1.18892	82.54361	24.60455	-0.297	12.98	-0.684	9.98	7.912	9.75	1.836546
12/3/2010 19:00	23332	2_60	2010	337	1900	1.299763	223.4146	42.82804	-0.561	11.18	2.66	9.1	5.828	9.21	3.377645
12/3/2010 20:00	23333	2_60	2010	337	2000	1.076363	199.6741	22.79477	2.703	11.57	4.003	11.28	4.118	8.18	4.065506
12/3/2010 21:00	23334	2_60	2010	337	2100	1.077558	240.4028	25.3653	3.598	9.58	2.968	7.011	2.837	7.703	4.865479
12/3/2010 22:00	23335	2_60	2010	337	2200	0.5398454	268.2485	29.01465	0.644	4.236	-0.159	1.129	3.34	6.307	2.966612
12/3/2010 23:00	23336	2_60	2010	337	2300	1.069596	253.1938	28.81035	2.43	9.3	1.839	6.467	2.467	5.535	3.067941
12/4/2010 0:00	23337	2_60	2010	338	0	1.152476	274.5235	18.48734	2.369	9.22	3.274	8.62	1.352	4.518	3.166546
12/4/2010 1:00	23338	2_60	2010	338	100	0.3427258	231.8103	14.27011	0.062	1.535	-0.221	0.132	1.414	4.407	2.992278
12/4/2010 2:00	23339	2_60	2010	338	200	0.7305924	286.0005	21.61971	1.223	4.415	-0.109	1.429	1.396	3.662	2.265691
12/4/2010 3:00	23340	2_60	2010	338	300	0.7444176	284.8466	18.69916	-0.938	5.107	-0.28	0.196	1.099	2.463	1.363906
12/4/2010 4:00	23341	2_60	2010	338	400	0.8527848	286.8085	20.80445	0.557	4.867	-0.252	0.294	1.13	2.034	0.9037137
12/4/2010 5:00	23342	2_60	2010	338	500	1.531186	142.0175	46.10511	3.853	7.578	1.543	8	0.689	2.268	1.579139
12/4/2010 6:00	23343	2_60	2010	338	600	0.9700371	278.5363	10.79898	2.242	11.89	2.503	9.19	0.765	2.329	1.564491
12/4/2010 7:00	23344	2_60	2010	338	700	1.214459	262.0775	25.23209	1.307	9.46	0.615	4.775	-0.919	0.36	1.27962
12/4/2010 8:00	23345	2_60	2010	338	800	0.5099794	249.2431	23.05612	-0.14	3.549	-0.099	1.5	-1.169	1.437	2.606554
12/4/2010 9:00	23346	2_60	2010	338	900	0.8140244	291.602	14.01716	1.708	7.478	-0.175	1.159	0.209	1.017	0.8085708
12/4/2010 10:00	23347	2_60	2010	338	1000	0.7313908	218.9543	45.6625	1.388	6.413	0.209	2.928	1.219	0.921	-0.2979705
12/4/2010 11:00	23348	2_60	2010	338	1100	0.7687364	53.8049	24.00513	2.598	31.81	0.159	27.99	3.859	3.496	-0.3627478
12/4/2010 12:00	23349	2_60	2010	338	1200	1.060632	326.0976	28.21197	11.82	28.59	8.61	25.84	6.386	5.854	-0.5315723
12/4/2010 13:00	23350	2_60	2010	338	1300	0.6958358	300.1179	39.39683	6.226	38.59	5.444	33.2	7.501	6.984	-0.517766
12/4/2010 14:00	23351	2_60	2010	338	1400	0.5812861	356.9723	43.57157	-1.57	26.78	-1.598	22.03	9.06	8.61	-0.4565374
12/4/2010 15:00	23352	2_60	2010	338	1500	0.8384228	332.3524	24.14683	2.538	12.29	0.257	7.677	8.93	8.68	-0.2570134
12/4/2010 16:00	23353	2_60	2010	338	1600	0.5990732	288.136	15.39715	-1.194	4.632	-0.264	0.105	7.275	7.75	0.4751125
12/4/2010 17:00	23354	2_60	2010	338	1700	0.4428269	164.3369	32.27973	0.054	2.921	-0.238	0.125	5.647	7.403	1.756014
12/4/2010 18:00	23355	2_60	2010	338	1800	0.3226163	141.8363	14.97913	-0.154	1.173	-0.241	0.125	3.89	7.61	3.719483
12/4/2010 19:00	23356	2_60	2010	338	1900	0.7621958	187.0276	35.53273	1.601	5.975	1.211	5.785	4.312	7.521	3.208444
12/4/2010 20:00	23357	2_60	2010	338	2000	0.552274	259.2985	44.25232	1.593	7.793	0.285	4.16	3.474	6.981	3.50659
12/4/2010 21:00	23358	2_60	2010	338	2100	0.8373175	219.6033	47.10388	0.421	3.849	-0.269	0.481	3.535	6.833	3.297647
12/4/2010 22:00	23359	2_60	2010	338	2200	1.992676	253.2815	31.05226	8.28	18.66	8.87	18.32	2.88	5.054	2.173829
12/4/2010 23:00	23360	2_60	2010	338	2300	0.9878438	270.6391	38.52913	1.513	10.37	1.013	8.3	2.504	4.907	2.403391
12/5/2010 0:00	23361	2_60	2010	339	0	1.013813	167.4789	70.0568	0.928	7.574	0.739	7.729	3.267	5.314	2.046494
12/5/2010 1:00	23362	2_60	2010	339	100	5.06708	133.0303	35.57662	6.397	33.17	29.02	42.52	3.996	5.853	1.856455
12/5/2010 2:00	23363	2_60	2010	339	200	2.9523	295.4113	10.06525	19.12	22.65	13.05	22.56	2.272	3.529	1.257043
12/5/2010 3:00	23364	2_60	2010	339	300	0.6451157	199.6233	35.33963	0.252	8.85	0	5.109	2.335	3.754	1.418746
12/5/2010 4:00	23365	2_60	2010	339	400	0.4059852	111.0343	35.04626	-0.227	1.183	-0.241	0.121	1.756	4.105	2.348773
12/5/2010 5:00	23366	2_60	2010	339	500	0.4227097	159.1986	47.15632	0.28	2.459	-0.189	0.638	1.709	4.106	2.397376
12/5/2010 6:00	23367	2_60	2010	339	600	0.6375811	259.9298	14.84964	0.075	2.184	-0.266	0.101	0.971	4.067	3.096369
12/5/2010 7:00	23368	2_60	2010	339	700	0.5092393	99.97684	36.11514	0.854	3.971	-0.179	0.163	1.921	3.704	1.783241
12/5/2010 8:00	23369	2_60	2010	339	800	1.590778	308.5729	14.20526	9.18	12.88	3.585	10.5	1.038	2.645	1.606724
12/5/2010 9:00	23370	2_60	2010	339	900	0.5357485	294.471	18.23132	0.396	4.135	-0.132	1.557	1.637	1.797	0.160172
12/5/2010 10:00	23371	2_60	2010	339	1000	0.4903533	193.8268	31.93387	3.732	12.22	1.994	10.01	3.318	3.051	-0.2673029
12/5/2010 11:00	23372	2_60	2010	339	1100	0.5947134	338.6982	29.2025	0.954	24.24	2.351	20.02	5.168	4.73	-0.4379952
12/5/2010 12:00	23373	2_60	2010	339	1200	0.8055742	306.4153	34.78408	-1.444	34.25	-1.142	28.85	6.464	5.868	-0.5959873
12/5/2010 13:00	23374	2_60	2010	339	1300	0.7607452	310.7508	41.47517	6.057	41.84	5.036	37.01	7.952	7.363	-0.5890265
12/5/2010 14:00	23375	2_60	2010	339	1400	0.7387576	338.1524	42.19938	9.63	38.96	6.547	35.6	10.16	9.67	-0.4912656
12/5/2010 15:00	23376	2_60	2010	339	1500	1.590067	240.6016	29.64973	8.62	26.67	14.41	25.84	11.03	10.44	-0.5964751
12/5/2010 16:00	23377	2_60	2010	339	1600	2.078794	182.6038	7.087284	6.616	8.68	13.42	13.88	9.01	11.08	2.068664
12/5/2010 17:00	23378	2_60	2010	339	1700	1.835313	206.435	26.20496	7.313	10.84	11.12	16.3	7.209	10.22	3.014276
12/5/2010 18:00	23379	2_60	2010	339	1800	0.4756726	284.0984	27.02653	1.064	4.886	0.033	1.815	5.477	9.35	3.868497
12/5/2010 19:00	23380	2_60	2010	339	1900	1.077698	209.577	13.92546	1.696	4.538	0.314	2.672	4.358	9.08	4.717682
12/5/2010 20:00	23381	2_60	2010	339	2000	1.139026	200.0699	18.40261	2.923	9.02	1.901	9.19	4.475	8.66	4.184168
12/5/2010 21:00	23382	2_60	2010	339	2100	0.7075551	226.2323	37.6447	2.656	7.503	0.911	5.236	3.844	7.224	3.380779
12/5/2010 22:00	23383	2_60	2010	339	2200	0.6950644	166.1972	19.63403	0.463	3.804	-0.065	1.38	2.955	6.776	3.820269
12/5/2010 23:00	23384	2_60	2010	339	2300	0.9056977	283.0901	12.98064	2.086	9.1	0.854	4.274	1.581	4.76	3.179336

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/3/2010 0:00	23313	2_60	2010	337	0	70.17	30.74	24.65	0.001	1.911	325.6	2352	13.65
12/3/2010 1:00	23314	2_60	2010	337	100	72.08	30	24.64	0	2.321	268.8	38	13.68
12/3/2010 2:00	23315	2_60	2010	337	200	73.95	30.07	24.62	0	2.014	217.3	121	13.68
12/3/2010 3:00	23316	2_60	2010	337	300	74.28	29.94	24.62	0	3.243	312.8	220	13.67
12/3/2010 4:00	23317	2_60	2010	337	400	77.63	28.17	24.61	0	2.56	304.9	358	13.68
12/3/2010 5:00	23318	2_60	2010	337	500	83.2	26.73	24.6	0	2.662	306.5	409	13.68
12/3/2010 6:00	23319	2_60	2010	337	600	80.8	27.6	24.6	0	2.423	147.5	550	13.69
12/3/2010 7:00	23320	2_60	2010	337	700	78.14	29.4	24.61	0.003	2.219	16.99	602	13.69
12/3/2010 8:00	23321	2_60	2010	337	800	76.01	31.21	24.62	9.41	3.379	206.5	724	13.66
12/3/2010 9:00	23322	2_60	2010	337	900	76.85	32.04	24.64	55.56	2.389	249.6	824	13.63
12/3/2010 10:00	23323	2_60	2010	337	1000	77.99	32.38	24.63	115.6	2.867	350.9	952	13.6
12/3/2010 11:00	23324	2_60	2010	337	1100	69.54	34.88	24.61	177.3	3.038	311.7	1007	13.57
12/3/2010 12:00	23325	2_60	2010	337	1200	64.04	36.63	24.6	189	3.038	343.8	1116	13.53
12/3/2010 13:00	23326	2_60	2010	337	1300	56.39	40.36	24.58	248.5	1.809	169.5	1203	13.5
12/3/2010 14:00	23327	2_60	2010	337	1400	49.75	43.9	24.57	253.5	2.628	21.1	1305	13.45
12/3/2010 15:00	23328	2_60	2010	337	1500	41.13	48.61	24.58	330	2.116	30.34	1425	13.4
12/3/2010 16:00	23329	2_60	2010	337	1600	40.31	48.5	24.58	133.3	3.311	134.1	1540	13.34
12/3/2010 17:00	23330	2_60	2010	337	1700	41.62	45.96	24.59	19.08	3.721	289.2	1621	13.36
12/3/2010 18:00	23331	2_60	2010	337	1800	35.61	46.52	24.59	0.06	2.765	98.3	1756	13.39
12/3/2010 19:00	23332	2_60	2010	337	1900	41.07	43.04	24.61	0.001	2.935	107.4	1801	13.42
12/3/2010 20:00	23333	2_60	2010	337	2000	45.57	40.05	24.62	0	2.355	215	1919	13.47
12/3/2010 21:00	23334	2_60	2010	337	2100	50.74	37.71	24.63	0	2.014	258.8	2012	13.52
12/3/2010 22:00	23335	2_60	2010	337	2200	50.59	38.5	24.64	0	1.502	338.4	2139	13.55
12/3/2010 23:00	23336	2_60	2010	337	2300	55.99	36.98	24.64	0	2.253	253	2229	13.57
12/4/2010 0:00	23337	2_60	2010	338	0	59.4	35.32	24.64	0	2.731	261.5	2307	13.59
12/4/2010 1:00	23338	2_60	2010	338	100	61.5	35.07	24.64	0	1.331	202.5	45	13.6
12/4/2010 2:00	23339	2_60	2010	338	200	63.04	34.81	24.63	0	1.946	302	156	13.6
12/4/2010 3:00	23340	2_60	2010	338	300	65.97	34.39	24.64	0.001	1.775	291.7	224	13.6
12/4/2010 4:00	23341	2_60	2010	338	400	66.41	34.3	24.65	0.001	1.877	235.3	322	13.58
12/4/2010 5:00	23342	2_60	2010	338	500	70.13	33.57	24.66	0.002	3.345	70.17	437	13.58
12/4/2010 6:00	23343	2_60	2010	338	600	68.2	33.88	24.66	0.001	2.901	294.7	553	13.58
12/4/2010 7:00	23344	2_60	2010	338	700	76.72	30.79	24.68	0.018	2.765	270.9	611	13.61
12/4/2010 8:00	23345	2_60	2010	338	800	74.79	30.54	24.68	9.76	1.946	228.1	700	13.64
12/4/2010 9:00	23346	2_60	2010	338	900	69.08	33.52	24.7	107	2.492	320	858	13.65
12/4/2010 10:00	23347	2_60	2010	338	1000	66.99	34.94	24.69	142.2	2.287	313.1	900	13.61
12/4/2010 11:00	23348	2_60	2010	338	1100	53.65	40.55	24.68	374.4	1.946	77.23	1016	13.55
12/4/2010 12:00	23349	2_60	2010	338	1200	42.78	45.59	24.66	394.6	2.662	310.3	1140	13.45
12/4/2010 13:00	23350	2_60	2010	338	1300	39.1	47.69	24.63	436.7	2.697	292.4	1202	13.38
12/4/2010 14:00	23351	2_60	2010	338	1400	33.68	50.19	24.62	308.1	1.707	346.9	1303	13.32
12/4/2010 15:00	23352	2_60	2010	338	1500	35.46	49.14	24.61	142.8	1.707	297.1	1422	13.31
12/4/2010 16:00	23353	2_60	2010	338	1600	46.37	45.89	24.61	73.54	1.297	323.4	1500	13.33
12/4/2010 17:00	23354	2_60	2010	338	1700	54.27	42.77	24.62	19.21	1.468	274.7	1614	13.37
12/4/2010 18:00	23355	2_60	2010	338	1800	57.49	39.36	24.63	0.156	1.024	137	1700	13.44
12/4/2010 19:00	23356	2_60	2010	338	1900	55.13	40.2	24.64	0	3.243	251.7	1844	13.48
12/4/2010 20:00	23357	2_60	2010	338	2000	58.34	38.86	24.65	0	1.843	309.9	1900	13.5
12/4/2010 21:00	23358	2_60	2010	338	2100	57.13	39.06	24.64	0	1.843	153.2	2042	13.52
12/4/2010 22:00	23359	2_60	2010	338	2200	63.39	37.61	24.66	0.001	6.417	317.5	2110	13.53
12/4/2010 23:00	23360	2_60	2010	338	2300	65.44	37.07	24.68	0.001	2.867	237.2	2209	13.53
12/5/2010 0:00	23361	2_60	2010	339	0	62.17	38.37	24.67	0.001	3.482	256.8	2343	13.53
12/5/2010 1:00	23362	2_60	2010	339	100	56.29	39.49	24.64	0.001	11.61	126.2	45	13.53
12/5/2010 2:00	23363	2_60	2010	339	200	66.05	36.6	24.65	0.001	5.905	295.2	105	13.52
12/5/2010 3:00	23364	2_60	2010	339	300	64.95	36.59	24.64	0.001	1.877	272.4	203	13.53
12/5/2010 4:00	23365	2_60	2010	339	400	66.18	35.75	24.65	0.001	0.956	171.6	347	13.54
12/5/2010 5:00	23366	2_60	2010	339	500	65.76	35.75	24.66	0.001	1.331	166.6	440	13.55
12/5/2010 6:00	23367	2_60	2010	339	600	69.28	33.95	24.67	0.001	1.365	323.2	555	13.58
12/5/2010 7:00	23368	2_60	2010	339	700	65.31	35.96	24.67	0.007	1.229	324.4	603	13.58
12/5/2010 8:00	23369	2_60	2010	339	800	70.54	34.5	24.7	14.19	3.55	307.6	733	13.58
12/5/2010 9:00	23370	2_60	2010	339	900	71.57	35.52	24.72	79.57	1.502	270.1	800	13.58
12/5/2010 10:00	23371	2_60	2010	339	1000	61.52	38.96	24.74	189.2	1.229	257.7	904	13.55
12/5/2010 11:00	23372	2_60	2010	339	1100	51.94	42.97	24.73	291.6	1.911	334.6	1058	13.49
12/5/2010 12:00	23373	2_60	2010	339	1200	46.8	45.69	24.71	395.6	2.458	343.8	1116	13.43
12/5/2010 13:00	23374	2_60	2010	339	1300	43.87	48.46	24.7	412.1	2.628	332.8	1209	13.36
12/5/2010 14:00	23375	2_60	2010	339	1400	35.01	53.06	24.69	457	1.98	262.2	1339	13.29
12/5/2010 15:00	23376	2_60	2010	339	1500	34.59	53.83	24.69	305.2	3.072	220.4	1436	13.23
12/5/2010 16:00	23377	2_60	2010	339	1600	37.11	49.02	24.69	115.9	3.516	190.8	1529	13.25
12/5/2010 17:00	23378	2_60	2010	339	1700	40.52	45.65	24.7	24.28	3.345	187.8	1628	13.33
12/5/2010 18:00	23379	2_60	2010	339	1800	44.6	42.66	24.72	0.182	1.502	236.4	1701	13.41
12/5/2010 19:00	23380	2_60	2010	339	1900	52.35	40.11	24.73	0	1.911	202.1	1822	13.47
12/5/2010 20:00	23381	2_60	2010	339	2000	53.29	40.26	24.73	0	2.048	161	1917	13.5
12/5/2010 21:00	23382	2_60	2010	339	2100	54.33	39.53	24.74	0	2.082	248.5	2013	13.52
12/5/2010 22:00	23383	2_60	2010	339	2200	57.57	37.83	24.74	0	1.604	203.6	2153	13.55
12/5/2010 23:00	23384	2_60	2010	339	2300	62.62	35.64	24.74	0	3.482	297.9	2212	13.57

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
12/6/2010 0:00	23385	2_60	2010	340	0	0.5098103	263.5339	24.83991	1.079	5.246	-0.006	1.949	0.687	4.003	3.315591
12/6/2010 1:00	23386	2_60	2010	340	100	1.568998	271.743	13.11712	0.243	10.84	2.027	6.921	0.859	2.815	1.955434
12/6/2010 2:00	23387	2_60	2010	340	200	0.4507287	256.1546	20.96277	0.291	2.56	-0.134	1.361	0.412	3.514	3.102076
12/6/2010 3:00	23388	2_60	2010	340	300	0.6684732	198.2052	32.47426	0.636	9.54	0.041	9.25	-0.326	3.198	3.524687
12/6/2010 4:00	23389	2_60	2010	340	400	1.999385	275.011	12.90856	10.87	14.53	6.179	10.01	-1.238	1.286	2.524197
12/6/2010 5:00	23390	2_60	2010	340	500	0.8846486	311.8858	37.99407	2.127	8	0.395	2.848	-2.245	-0.784	1.461137
12/6/2010 6:00	23391	2_60	2010	340	600	0.4520084	118.0383	42.25616	-0.099	4.483	-0.05	1.508	-2.279	0.67	2.949508
12/6/2010 7:00	23392	2_60	2010	340	700	0.2357182	74.16211	26.63201	-0.221	0.311	-0.211	0.137	-0.624	1.101	1.724954
12/6/2010 8:00	23393	2_60	2010	340	800	0.3638561	91.60127	26.83588	-0.124	1.296	-0.202	0.14	-0.044	1.387	1.431021
12/6/2010 9:00	23394	2_60	2010	340	900	2.001776	292.3609	31.72059	5.171	13.5	1.184	7.023	-1.424	-0.823	0.6012163
12/6/2010 10:00	23395	2_60	2010	340	1000	1.537787	107.8912	53.8489	5.051	15.01	1.834	12.29	0.313	0.542	0.2281956
12/6/2010 11:00	23396	2_60	2010	340	1100	3.063911	21.11139	28.79123	15.65	30.59	10.64	29.2	2.102	1.782	-0.3202221
12/6/2010 12:00	23397	2_60	2010	340	1200	1.84217	189.1488	23.57564	1.121	32.42	4.162	32.89	3	2.32	-0.6794308
12/6/2010 13:00	23398	2_60	2010	340	1300	1.670486	125.5338	47.52108	1.908	16.71	2.186	16.51	5.962	5.47	-0.4923527
12/6/2010 14:00	23399	2_60	2010	340	1400	2.388387	123.4788	34.43184	5.693	20.52	6.361	19.58	6.23	5.652	-0.5784346
12/6/2010 15:00	23400	2_60	2010	340	1500	1.494298	235.0691	44.3434	3.102	16.22	3.759	12.92	5.575	5.047	-0.5288171
12/6/2010 16:00	23401	2_60	2010	340	1600	2.467911	300.5992	12.00626	13.29	16.14	7.809	14.28	4.913	4.567	-0.3462242
12/6/2010 17:00	23402	2_60	2010	340	1700	1.528229	174.2631	38.50528	1.546	10.4	1.598	6.829	2.903	4.834	1.930883
12/6/2010 18:00	23403	2_60	2010	340	1800	1.075934	172.9967	43.81085	0.754	9.02	0.399	8	2.846	4.966	2.119964
12/6/2010 19:00	23404	2_60	2010	340	1900	1.323828	282.9526	34.74675	1.705	12.24	4.216	13.84	2.683	5.444	2.761184
12/6/2010 20:00	23405	2_60	2010	340	2000	2.110831	322.8799	42.91113	9.49	22.31	16.8	30.4	3.496	5.842	2.345693
12/6/2010 21:00	23406	2_60	2010	340	2100	0.6848584	279.4072	44.8971	2.223	12.66	0.493	7.439	2.183	5.237	3.053926
12/6/2010 22:00	23407	2_60	2010	340	2200	0.927656	286.9363	34.66434	4.534	9.68	1.721	6.024	1.04	3.926	2.885784
12/6/2010 23:00	23408	2_60	2010	340	2300	0.5007344	165.5804	21.36499	-0.26	4.133	-0.267	1.083	0.841	3.608	2.767015
12/7/2010 0:00	23409	2_60	2010	341	0	0.7513008	133.6231	44.7814	1.038	3.769	-0.11	1.536	0.134	3.478	3.344396
12/7/2010 1:00	23410	2_60	2010	341	100	1.023534	294.2224	42.19084	2.222	7.625	0.631	4.145	0.139	2.361	2.222339
12/7/2010 2:00	23411	2_60	2010	341	200	1.925117	288.1422	35.88199	2.812	14.77	5.955	14.47	-1.438	0.111	1.549028
12/7/2010 3:00	23412	2_60	2010	341	300	1.142465	244.2984	36.10999	2.285	9.99	2.967	10.31	-2.15	0.689	2.839113
12/7/2010 4:00	23413	2_60	2010	341	400	0.6130323	236.7304	25.62346	0.566	3.185	-0.222	0.556	-1.912	0.919	2.83075
12/7/2010 5:00	23414	2_60	2010	341	500	1.613815	306.5299	44.61364	6.462	13.57	3.137	12.01	-2.366	-0.025	2.340481
12/7/2010 6:00	23415	2_60	2010	341	600	1.127028	264.396	59.0746	2.502	7.597	0.707	4.585	-3.793	-2.507	1.286711
12/7/2010 7:00	23416	2_60	2010	341	700	1.01515	225.166	22.79265	1.653	6.578	0.331	3.799	-3.461	-1.258	2.203094
12/7/2010 8:00	23417	2_60	2010	341	800	0.8693203	195.9406	26.53862	1.02	7.724	0.376	5.855	-3.519	-0.863	2.655751
12/7/2010 9:00	23418	2_60	2010	341	900	0.6340524	281.3934	25.59241	1.015	6.653	0.142	3.998	-1.59	-1.272	0.3175153
12/7/2010 10:00	23419	2_60	2010	341	1000	0.6857089	12.18924	24.94271	2.686	22.49	0.903	17.56	0.547	0.215	-0.3327187
12/7/2010 11:00	23420	2_60	2010	341	1100	0.8042353	298.8891	41.94555	-0.969	30.79	-0.196	26.22	2.425	1.824	-0.6011664
12/7/2010 12:00	23421	2_60	2010	341	1200	2.150081	305.9163	21.57356	8.38	38.98	5.5	39.02	5.586	4.828	-0.7579067
12/7/2010 13:00	23422	2_60	2010	341	1300	4.55804	296.0531	8.893843	18.95	40.88	14.3	45.62	7.454	6.429	-1.025274
12/7/2010 14:00	23423	2_60	2010	341	1400	3.658769	292.8436	14.82298	11.69	43.29	11.33	47.88	8.23	7.351	-0.8761559
12/7/2010 15:00	23424	2_60	2010	341	1500	2.711145	299.0633	27.37094	8.04	42.14	8.84	46.63	8.93	8.12	-0.8111729
12/7/2010 16:00	23425	2_60	2010	341	1600	2.698321	294.6144	19.66551	20.07	25.72	19.97	25.18	7.24	7.824	0.5832326
12/7/2010 17:00	23426	2_60	2010	341	1700	1.886916	264.7587	29.46618	10.09	19.16	12.88	17.32	3.891	6.967	3.076093
12/7/2010 18:00	23427	2_60	2010	341	1800	1.920737	289.2271	16.76054	8.24	20.62	9.12	17.76	2.314	6.461	4.147336
12/7/2010 19:00	23428	2_60	2010	341	1900	0.7640441	256.778	43.40758	3.597	16.09	2.363	11.92	0.888	5.538	4.649642
12/7/2010 20:00	23429	2_60	2010	341	2000	1.140902	259.8751	23.36485	0.912	8.85	1.654	5.001	0.26	4.868	4.607865
12/7/2010 21:00	23430	2_60	2010	341	2100	1.272476	239.8435	15.91957	2.748	7.577	2.905	6.694	-0.891	4.504	5.395129
12/7/2010 22:00	23431	2_60	2010	341	2200	1.169662	183.9054	31.74349	5.856	15.53	6.168	15.59	-0.207	3.398	3.604905
12/7/2010 23:00	23432	2_60	2010	341	2300	1.663621	181.5867	15.25636	5.887	15.53	9.6	16.82	-0.241	3.164	3.405446
12/8/2010 0:00	23433	2_60	2010	342	0	1.780895	297.1612	23.75984	6.785	14.37	2.306	8.48	-1.439	1.154	2.593415
12/8/2010 1:00	23434	2_60	2010	342	100	1.073722	135.6388	38.31958	-2.574	13.63	-0.69	12.17	-2.193	0.576	2.768367
12/8/2010 2:00	23435	2_60	2010	342	200	1.006788	252.6652	34.53114	-2.388	14.51	0.828	10.07	-2.806	-0.612	2.193809
12/8/2010 3:00	23436	2_60	2010	342	300	2.087196	126.6329	25.06777	3.35	14.08	7.554	18.23	-3.554	-0.77	2.784262
12/8/2010 4:00	23437	2_60	2010	342	400	1.681974	234.5712	31.27879	4.685	15.82	8.2	17.64	-4.333	-1.93	2.403598
12/8/2010 5:00	23438	2_60	2010	342	500	0.9816699	267.6934	25.23458	1.67	9.54	0.895	4.992	-3.908	-3.165	0.7428588
12/8/2010 6:00	23439	2_60	2010	342	600	0.2184251	239.9643	7.274852	-0.146	2.615	-0.265	0.096	-4.362	-2.481	1.881371
12/8/2010 7:00	23440	2_60	2010	342	700	0.43622	259.3406	19.61635	-0.303	2.464	-0.276	0.1	-4.616	-2.392	2.223965
12/8/2010 8:00	23441	2_60	2010	342	800	0.470381	276.8481	18.00107	-0.092	1.181	-0.269	0.091	-4.741	-2.546	2.194402
12/8/2010 9:00	23442	2_60	2010	342	900	0.3214505	270.3105	14.36504	1.305	6.487	0.046	2.897	-2.428	-2.579	-0.1503399
12/8/2010 10:00	23443	2_60	2010	342	1000	0.431245	290.2625	38.1181	3.764	27.93	2.882	22.47	-0.767	-1.297	-0.5297841
12/8/2010 11:00	23444	2_60	2010	342	1100	1.625397	305.567	17.99486	10.96	34.92	7.732	33.05	0.979	0.217	-0.7626294
12/8/2010 12:00	23445	2_60	2010	342	1200	1.363164	303.1938	23.02672	2.207	36	1.17	32.98	2.017	1.296	-0.7206677
12/8/2010 13:00	23446	2_60	2010	342	1300	0.4670285	320.5773	63.80697	22.15	46.82	22.38	44.44	3.914	3.217	-0.6970829
12/8/2010 14:00	23447	2_60	2010	342	1400	0.4111075	64.48334	38.60569	-6.359	27.98	-6.11	25	5.892	5.253	-0.6386561
12/8/2010 15:00	23448	2_60	2010	342	1500	0.765437	195.1473	38.0086	8.78	31.28	10.04	28.3	7.234	6.601	-0.6327757
12/8/2010 16:00	23449	2_60	2010	342	1600	0.8923275	233.2567	19.60114	1.167	7.587	1.443	7.139	6.615	7.022	0.406563
12/8/2010 17:00	23450	2_60	2010	342	1700	1.437544	246.7034	17.86586	6.511	11.41	4.23	9.49	4.192	6.285	2.093199
12/8/2010 18:00	23451	2_60	2010	342	1800	0.6834608	237.9651	23.77226	0.566	6.581	0.537	3.758	2.38	5.38	2.999648
12/8/2010 19:00	23452	2_60	2010	342	1900	0.5792966	118.7031	32.06296	0.008	4.22	-0.002	2.951	2.001	5.244	3.242165
12/8/2010 20:00	23453	2_60	2010	342	2000	0.7537476	299.6912	26.92482	1.7	6.409	-0.002	2.985	1.979	4.965	2.985633
12/8/2010 21:00	23454	2_60	2010	342	2100	0.776728	216.3823	11.87176	0.883	3.48	0.612	3.621	1.336	4.669	3.332527
12/8/2010 22:00	23455	2_60	2010	342	2200	0.8422154	138.9211	54.44696	1.445	10.06	1.084	8.12	0.627	3.759	3.131355
12/8/2010 23:00	23456	2_60	2010	342	2300	0.9783411	205.9168	32.20027	2.358	6.734	0.982	5.099	0.772	4.537	3.765159

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/6/2010 0:00	23385	2_60	2010	340	0	65.91	34.1	24.74	0	1.536	238.6	2338	13.61
12/6/2010 1:00	23386	2_60	2010	340	100	65.48	34.03	24.74	0	2.833	273.9	22	13.64
12/6/2010 2:00	23387	2_60	2010	340	200	66.35	33.33	24.75	0	1.229	227.4	106	13.65
12/6/2010 3:00	23388	2_60	2010	340	300	69.22	32.21	24.75	0	2.423	83.6	240	13.66
12/6/2010 4:00	23389	2_60	2010	340	400	73.57	30.56	24.75	0	4.745	297	344	13.67
12/6/2010 5:00	23390	2_60	2010	340	500	79.97	28.46	24.74	0	3.789	296.5	400	13.69
12/6/2010 6:00	23391	2_60	2010	340	600	80.2	28.47	24.75	0	1.126	171	526	13.71
12/6/2010 7:00	23392	2_60	2010	340	700	75.88	31.14	24.75	0.019	1.058	103	605	13.69
12/6/2010 8:00	23393	2_60	2010	340	800	74.34	32.35	24.74	11.12	1.126	69.15	741	13.66
12/6/2010 9:00	23394	2_60	2010	340	900	84	29.98	24.76	39.57	3.721	274.3	812	13.63
12/6/2010 10:00	23395	2_60	2010	340	1000	81.1	32.93	24.74	117.3	4.096	339.3	940	13.61
12/6/2010 11:00	23396	2_60	2010	340	1100	71.77	36.46	24.76	185.9	7.68	334.9	1049	13.57
12/6/2010 12:00	23397	2_60	2010	340	1200	67.45	38.04	24.72	344.1	3.823	98.1	1148	13.54
12/6/2010 13:00	23398	2_60	2010	340	1300	59.2	43.24	24.69	164.6	4.301	77.27	1203	13.47
12/6/2010 14:00	23399	2_60	2010	340	1400	58.52	43.73	24.67	176.6	3.994	110.6	1308	13.44
12/6/2010 15:00	23400	2_60	2010	340	1500	59.24	42.87	24.65	181.9	4.062	302.7	1406	13.42
12/6/2010 16:00	23401	2_60	2010	340	1600	61.27	41.92	24.66	119.2	4.574	295.5	1511	13.41
12/6/2010 17:00	23402	2_60	2010	340	1700	70.44	37.96	24.65	16.63	3.413	140.5	1633	13.45
12/6/2010 18:00	23403	2_60	2010	340	1800	73.61	37.48	24.66	0.343	2.901	43.3	1729	13.5
12/6/2010 19:00	23404	2_60	2010	340	1900	72.22	37.23	24.66	0.001	4.574	262.9	1857	13.54
12/6/2010 20:00	23405	2_60	2010	340	2000	68.88	38.71	24.68	0	6.11	248.2	1913	13.57
12/6/2010 21:00	23406	2_60	2010	340	2100	71.85	36.78	24.68	0.001	2.116	202.9	2059	13.58
12/6/2010 22:00	23407	2_60	2010	340	2200	78.14	34.41	24.69	0	1.843	197.9	2100	13.6
12/6/2010 23:00	23408	2_60	2010	340	2300	79.99	34.11	24.7	0.001	1.502	228.5	2200	13.62
12/7/2010 0:00	23409	2_60	2010	341	0	82	32.84	24.69	0.001	1.843	347.3	2328	13.63
12/7/2010 1:00	23410	2_60	2010	341	100	81.1	32.99	24.69	0	3.823	311.1	58	13.65
12/7/2010 2:00	23411	2_60	2010	341	200	88.1	29.83	24.71	0	3.857	267.6	115	13.67
12/7/2010 3:00	23412	2_60	2010	341	300	88.9	28.69	24.71	0	3.174	200.7	202	13.69
12/7/2010 4:00	23413	2_60	2010	341	400	88.8	29.07	24.71	0	1.638	354.4	334	13.7
12/7/2010 5:00	23414	2_60	2010	341	500	89.8	28.41	24.72	0	3.721	301.2	449	13.7
12/7/2010 6:00	23415	2_60	2010	341	600	93.9	25.64	24.74	0	2.662	335.5	501	13.72
12/7/2010 7:00	23416	2_60	2010	341	700	92.8	26.18	24.76	0.018	2.082	225.8	627	13.74
12/7/2010 8:00	23417	2_60	2010	341	800	91.9	26.6	24.78	19.32	2.935	313.8	759	13.75
12/7/2010 9:00	23418	2_60	2010	341	900	86.8	31.02	24.79	180.3	2.867	309.7	800	13.72
12/7/2010 10:00	23419	2_60	2010	341	1000	80.4	35.51	24.81	323.6	2.15	12.3	941	13.66
12/7/2010 11:00	23420	2_60	2010	341	1100	72.26	39.14	24.8	434.7	2.594	309.2	1016	13.58
12/7/2010 12:00	23421	2_60	2010	341	1200	55.09	43.9	24.78	502.3	5.769	313	1156	13.47
12/7/2010 13:00	23422	2_60	2010	341	1300	44.24	46.48	24.77	508.8	7.373	290	1240	13.38
12/7/2010 14:00	23423	2_60	2010	341	1400	38.18	48.06	24.75	458	6.588	316.1	1319	13.33
12/7/2010 15:00	23424	2_60	2010	341	1500	34.04	49.57	24.75	355.4	6.11	312.3	1427	13.29
12/7/2010 16:00	23425	2_60	2010	341	1600	38.4	46.85	24.75	147.3	5.222	295.1	1546	13.25
12/7/2010 17:00	23426	2_60	2010	341	1700	50.51	39.69	24.77	10.99	4.13	292.8	1600	13.38
12/7/2010 18:00	23427	2_60	2010	341	1800	57.78	36.54	24.78	0.416	3.277	303.8	1738	13.48
12/7/2010 19:00	23428	2_60	2010	341	1900	63.29	34.21	24.79	0	2.389	317.1	1834	13.55
12/7/2010 20:00	23429	2_60	2010	341	2000	66.16	32.95	24.8	0	2.15	271.6	1957	13.61
12/7/2010 21:00	23430	2_60	2010	341	2100	71.34	30.71	24.8	0	2.287	220.2	2044	13.64
12/7/2010 22:00	23431	2_60	2010	341	2200	66.07	32.31	24.81	0	2.389	142.8	2116	13.67
12/7/2010 23:00	23432	2_60	2010	341	2300	66.62	32.19	24.82	0	4.164	144.1	2219	13.68
12/8/2010 0:00	23433	2_60	2010	342	0	71.02	30.17	24.82	0	3.686	311.4	2307	13.69
12/8/2010 1:00	23434	2_60	2010	342	100	74.54	28.77	24.82	0	3.891	121.2	24	13.71
12/8/2010 2:00	23435	2_60	2010	342	200	77.43	27.43	24.82	0	1.911	294.6	132	13.72
12/8/2010 3:00	23436	2_60	2010	342	300	77.62	26.2	24.81	0	6.212	128.4	256	13.74
12/8/2010 4:00	23437	2_60	2010	342	400	78.29	24.95	24.81	0	6.315	138.8	302	13.75
12/8/2010 5:00	23438	2_60	2010	342	500	77.49	25.23	24.8	0	2.526	271.7	402	13.77
12/8/2010 6:00	23439	2_60	2010	342	600	79.35	24.99	24.8	0	1.058	228.5	505	13.79
12/8/2010 7:00	23440	2_60	2010	342	700	79.69	24.46	24.81	0.017	1.092	260.4	630	13.8
12/8/2010 8:00	23441	2_60	2010	342	800	80.5	24.22	24.81	28.17	1.126	231.4	718	13.8
12/8/2010 9:00	23442	2_60	2010	342	900	69.89	30.04	24.82	162.5	1.058	268.8	834	13.77
12/8/2010 10:00	23443	2_60	2010	342	1000	63.31	33.57	24.81	308.9	1.434	256	939	13.69
12/8/2010 11:00	23444	2_60	2010	342	1100	58.36	35.75	24.8	426.6	3.209	301.4	1049	13.6
12/8/2010 12:00	23445	2_60	2010	342	1200	53.35	37.67	24.77	453.7	2.901	303.9	1150	13.51
12/8/2010 13:00	23446	2_60	2010	342	1300	44.65	41.79	24.74	453.2	1.775	346.8	1209	13.44
12/8/2010 14:00	23447	2_60	2010	342	1400	37.76	44.65	24.71	375.8	1.502	342.8	1348	13.36
12/8/2010 15:00	23448	2_60	2010	342	1500	36.13	47.29	24.69	331.5	2.082	217.7	1444	13.32
12/8/2010 16:00	23449	2_60	2010	342	1600	43.25	44.7	24.67	127.1	1.843	224.1	1505	13.32
12/8/2010 17:00	23450	2_60	2010	342	1700	51.18	40.27	24.67	24.17	3.379	322.2	1634	13.39
12/8/2010 18:00	23451	2_60	2010	342	1800	58.18	36.86	24.67	0.132	2.15	248	1705	13.46
12/8/2010 19:00	23452	2_60	2010	342	1900	58.98	36.22	24.66	0	1.536	213.5	1833	13.52
12/8/2010 20:00	23453	2_60	2010	342	2000	60.9	36.3	24.66	0	1.911	8.21	1947	13.55
12/8/2010 21:00	23454	2_60	2010	342	2100	63.94	34.99	24.67	0.001	1.877	223.5	2050	13.57
12/8/2010 22:00	23455	2_60	2010	342	2200	66.58	33.65	24.67	0.001	2.253	169.7	2141	13.59
12/8/2010 23:00	23456	2_60	2010	342	2300	65.87	33.77	24.68	0	2.116	194.8	2232	13.61

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
12/9/2010 0:00	23457	2_60	2010	343	0	0.85592	205.9211	25.69248	-0.442	4.977	0.07	1.794	0.638	3.909	3.271439
12/9/2010 1:00	23458	2_60	2010	343	100	1.702731	293.2004	19.04667	4.811	12.46	0.922	4.225	0.075	2.511	2.435739
12/9/2010 2:00	23459	2_60	2010	343	200	0.6385748	230.8889	31.30913	0.362	7.001	0.712	4.354	-1.207	0.891	2.098091
12/9/2010 3:00	23460	2_60	2010	343	300	0.6531911	84.07121	23.27103	-0.338	1.201	-0.277	0.117	-0.312	1.137	1.449278
12/9/2010 4:00	23461	2_60	2010	343	400	0.8202187	277.0591	50.78341	0.974	4.093	-0.264	0.304	-1.241	1.375	2.616008
12/9/2010 5:00	23462	2_60	2010	343	500	0.2308812	264.9872	31.97739	0.113	2.112	-0.279	0.077	-0.491	1.088	1.578169
12/9/2010 6:00	23463	2_60	2010	343	600	0.8035246	61.33253	25.2149	0.543	5.097	0.306	3.372	-0.453	1.283	1.735778
12/9/2010 7:00	23464	2_60	2010	343	700	1.398975	297.0337	13.69444	5.651	8.51	0.06	1.872	-1.268	0.331	1.599605
12/9/2010 8:00	23465	2_60	2010	343	800	0.804122	256.8754	29.55753	1.664	5.633	-0.039	1.421	-1.338	-0.439	0.8994809
12/9/2010 9:00	23466	2_60	2010	343	900	0.750137	306.3491	32.61142	1.359	5.494	-0.011	1.994	-0.245	0.106	0.35065
12/9/2010 10:00	23467	2_60	2010	343	1000	1.093914	262.1295	16.39206	-2.496	13.33	0.607	9.41	0.813	0.352	-0.4606762
12/9/2010 11:00	23468	2_60	2010	343	1100	0.7124166	329.8235	34.77928	5.526	28.94	2.73	22.78	2.852	2.359	-0.493387
12/9/2010 12:00	23469	2_60	2010	343	1200	0.7494776	328.6405	29.17209	1.259	28.52	-0.345	23.92	3.997	3.514	-0.4821391
12/9/2010 13:00	23470	2_60	2010	343	1300	0.6345661	5.329076	42.16677	12.99	24.74	7.023	20.15	4.761	4.255	-0.5057344
12/9/2010 14:00	23471	2_60	2010	343	1400	0.7158591	318.6264	34.52794	8.47	25.04	5.5	19.51	5.366	4.881	-0.485108
12/9/2010 15:00	23472	2_60	2010	343	1500	0.8746366	314.868	26.26274	10.64	26.16	6.382	21.32	6.123	5.643	-0.4796519
12/9/2010 16:00	23473	2_60	2010	343	1600	0.467113	320.7507	40.32977	1.011	7.242	-0.408	3.454	6.134	5.827	-0.3074847
12/9/2010 17:00	23474	2_60	2010	343	1700	0.1889563	195.1695	7.572628	-0.274	0.1	-0.238	0.121	4.939	5.661	0.7226209
12/9/2010 18:00	23475	2_60	2010	343	1800	0.6453741	87.22274	29.43024	-0.006	2.255	-0.174	0.746	3.616	5.568	1.951744
12/9/2010 19:00	23476	2_60	2010	343	1900	1.208203	153.8453	46.18966	5.141	14.42	2.289	10.84	3.911	5.476	1.564858
12/9/2010 20:00	23477	2_60	2010	343	2000	2.355393	281.1515	38.92065	10.96	22.04	7.949	21.21	2.913	3.631	0.7171468
12/9/2010 21:00	23478	2_60	2010	343	2100	1.251129	133.2749	19.80707	3.131	11.28	3.188	9.57	3.43	4.73	1.300752
12/9/2010 22:00	23479	2_60	2010	343	2200	0.926176	186.2872	37.12527	2.857	9.44	1.815	8.77	3.257	5.302	2.044698
12/9/2010 23:00	23480	2_60	2010	343	2300	2.381903	159.3762	34.62141	2.283	17.46	10.06	20.2	4.045	5.235	1.190095
12/10/2010 0:00	23481	2_60	2010	344	0	1.478093	109.0113	36.74486	2.531	10.72	3.56	10.87	3.678	5.208	1.530116
12/10/2010 1:00	23482	2_60	2010	344	100	1.410537	305.7772	40.00381	7.144	12.59	2.636	10.59	2.64	3.227	0.5869134
12/10/2010 2:00	23483	2_60	2010	344	200	0.8326519	236.9742	42.7808	-0.419	4.86	-0.303	1.106	2.336	3.517	1.180644
12/10/2010 3:00	23484	2_60	2010	344	300	0.7554273	250.3416	39.80116	0.374	3.854	0.024	1.344	1.391	3.604	2.213199
12/10/2010 4:00	23485	2_60	2010	344	400	0.8579308	114.1144	34.90391	0.237	4.188	-0.157	1.883	1.536	3.566	2.029349
12/10/2010 5:00	23486	2_60	2010	344	500	0.6041037	116.9173	30.29643	-0.247	5.223	-0.263	0.329	0.765	4.053	3.288321
12/10/2010 6:00	23487	2_60	2010	344	600	0.4699005	197.625	27.61569	0.119	2.273	-0.17	1.683	0.902	3.57	2.667973
12/10/2010 7:00	23488	2_60	2010	344	700	1.372385	272.9113	24.84632	1.035	10.43	0.689	5.505	-0.384	2.046	2.43029
12/10/2010 8:00	23489	2_60	2010	344	800	1.142325	271.016	31.55144	2.057	9.71	2.669	8.78	-0.813	1.452	2.265314
12/10/2010 9:00	23490	2_60	2010	344	900	0.8277017	245.3477	27.75182	2.139	5.636	-0.05	2.15	0.81	1.443	0.6338091
12/10/2010 10:00	23491	2_60	2010	344	1000	0.8127385	349.3161	48.60817	6.086	18.5	3.325	14.62	3.154	2.711	-0.4432279
12/10/2010 11:00	23492	2_60	2010	344	1100	0.8616341	301.2129	28.8093	13.05	33.15	10.62	27.61	4.737	4.081	-0.6559198
12/10/2010 12:00	23493	2_60	2010	344	1200	1.06018	309.8156	35.19915	5.747	36.26	4.544	34.55	6.207	5.62	-0.5877175
12/10/2010 13:00	23494	2_60	2010	344	1300	1.080542	347.2791	35.01724	2.042	35.72	-1.047	33.17	7.674	7.063	-0.6116421
12/10/2010 14:00	23495	2_60	2010	344	1400	4.515685	240.7094	46.46579	10.29	48.54	41.51	63.48	10.46	9.83	-0.6276516
12/10/2010 15:00	23496	2_60	2010	344	1500	7.514945	230.7459	11.87503	25.21	69.1	80.5	81.1	11.41	10.7	-0.709749
12/10/2010 16:00	23497	2_60	2010	344	1600	9.457325	223.538	9.883019	21.84	73.96	97.6	88.6	10.5	10.2	-0.3019977
12/10/2010 17:00	23498	2_60	2010	344	1700	8.613552	221.9771	6.739174	20.74	44.49	96.2	54.28	9.58	10.07	0.4941923
12/10/2010 18:00	23499	2_60	2010	344	1800	6.738668	220.0023	8.597137	21.36	44.86	78.77	54.86	9.14	9.69	0.5507826
12/10/2010 19:00	23500	2_60	2010	344	1900	4.27299	210.3621	58.68196	21.41	36.27	53.14	60.09	7.722	8.65	0.927517
12/10/2010 20:00	23501	2_60	2010	344	2000	0.9223102	62.61282	42.86487	-4.465	17.33	-4.004	14.11	5.845	7.869	2.024084
12/10/2010 21:00	23502	2_60	2010	344	2100	1.053804	53.25569	24.10327	0.015	15.09	-2.87	11.71	4.78	7.322	2.542452
12/10/2010 22:00	23503	2_60	2010	344	2200	1.073944	213.6177	37.29713	3.496	14.17	2.419	10.42	5.25	7.393	2.142684
12/10/2010 23:00	23504	2_60	2010	344	2300	0.8288399	79.2537	40.74333	-0.082	14.06	-1.03	12.45	4.953	7.519	2.565374
12/11/2010 0:00	23505	2_60	2010	345	0	0.5379428	119.2578	36.098	0.427	4.421	-0.032	2.279	4.193	7.362	3.169136
12/11/2010 1:00	23506	2_60	2010	345	100	1.292028	242.0183	25.52719	2.25	14.15	4.396	10.47	4.442	6.517	2.075331
12/11/2010 2:00	23507	2_60	2010	345	200	0.8121161	269.5767	31.25718	3.221	8.11	0.259	5.044	4.425	6.434	2.008842
12/11/2010 3:00	23508	2_60	2010	345	300	1.259031	283.9218	26.70142	2.818	11.26	2.961	8.93	4.124	5.886	1.761198
12/11/2010 4:00	23509	2_60	2010	345	400	1.790891	297.2233	16.52313	2.261	15.73	-0.359	13.56	4.147	5.415	1.267862
12/11/2010 5:00	23510	2_60	2010	345	500	1.010084	238.0534	33.48591	3.727	7.138	1.057	5.741	2.677	4.896	2.218656
12/11/2010 6:00	23511	2_60	2010	345	600	0.7885081	161.275	30.46206	0.996	5.945	0.412	4.131	3.019	4.563	1.543583
12/11/2010 7:00	23512	2_60	2010	345	700	0.8975905	151.3602	37.50116	0.227	4.672	0.678	4.456	2.944	4.581	1.637193
12/11/2010 8:00	23513	2_60	2010	345	800	1.412508	147.1918	35.6217	1.206	8.1	0.465	7.308	2.009	4.358	2.349229
12/11/2010 9:00	23514	2_60	2010	345	900	1.506407	132.2743	33.53179	1.124	15.14	3.388	15.49	3.617	4.368	0.7501507
12/11/2010 10:00	23515	2_60	2010	345	1000	0.790924	325.8479	30.33428	8.26	26.16	6.55	22.08	5.895	5.35	-0.5447717
12/11/2010 11:00	23516	2_60	2010	345	1100	1.312136	109.2206	44.73998	6.092	47.1	4.814	47.98	7.218	6.351	-0.8669898
12/11/2010 12:00	23517	2_60	2010	345	1200	3.476582	349.9511	21.65951	17.56	47.77	4.865	52.97	8.01	7.066	-0.94308
12/11/2010 13:00	23518	2_60	2010	345	1300	4.43809	321.9167	19.21719	23.02	51.67	14.36	57.7	8.89	7.683	-1.206607
12/11/2010 14:00	23519	2_60	2010	345	1400	2.527338	292.5321	20.97102	9.11	38.15	5.921	38.79	8.57	7.789	-0.7846986
12/11/2010 15:00	23520	2_60	2010	345	1500	1.647299	250.8657	40.72633	11.33	36.77	15.9	35.78	8.98	8.17	-0.8175001
12/11/2010 16:00	23521	2_60	2010	345	1600	3.176435	344.441	29.26323	28.55	36.75	19.27	38.5	8.05	7.968	-0.08651511
12/11/2010 17:00	23522	2_60	2010	345	1700	1.458825	296.8491	23.74437	3.262	15.82	0.895	12.47	4.571	6.619	2.048486
12/11/2010 18:00	23523	2_60	2010	345	1800	2.214849	277.8372	14.82452	5.169	18.03	9.8	15.38	3.187	6.494	3.307174
12/11/2010 19:00	23524	2_60	2010	345	1900	1.700408	245.8509	10.61294	6.667	9.7	8.66	11.55	1.889	6.191	4.301279
12/11/2010 20:00	23525	2_60	2010	345	2000	1.311914	191.8968	12.37077	3.072	8.96	3.753	9.45	1.871	5.675	3.803496
12/11/2010 21:00	23526	2_60	2010	345	2100	0.8301446	182.2984	17.78233	1.394	6.331	1.398	5.337	1.883	5.28	3.397024
12/11/2010 22:00	23527	2_60	2010	345	2200	2.178327	280.2531	30.04892	13.36	18.78	12.74	16.61	0.774	2.871	2.096983
12/11/2010 23:00	23528	2_60	2010	345	2300	0.7353747	289.4078	33.36885	1.383	5.231	-0.269	0.172	-0.313	2.635	2.947807

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/9/2010 0:00	23457	2_60	2010	343	0	66.49	33.61	24.67	0.001	2.116	293.7	2312	13.61
12/9/2010 1:00	23458	2_60	2010	343	100	67.89	32.75	24.66	0	3.209	299	49	13.62
12/9/2010 2:00	23459	2_60	2010	343	200	75	30.28	24.66	0	2.185	257.4	101	13.64
12/9/2010 3:00	23460	2_60	2010	343	300	70.68	31.8	24.65	0	1.638	91.9	256	13.65
12/9/2010 4:00	23461	2_60	2010	343	400	72.23	30.54	24.65	0	2.15	39.74	313	13.66
12/9/2010 5:00	23462	2_60	2010	343	500	72.44	31.55	24.64	0	1.024	336	411	13.67
12/9/2010 6:00	23463	2_60	2010	343	600	73.03	31.68	24.65	0.001	1.843	296.3	558	13.65
12/9/2010 7:00	23464	2_60	2010	343	700	76.84	30.13	24.65	0.001	2.185	316	601	13.65
12/9/2010 8:00	23465	2_60	2010	343	800	78.73	29.92	24.66	9.91	2.15	212.3	735	13.65
12/9/2010 9:00	23466	2_60	2010	343	900	77.05	32.21	24.68	80.4	2.458	34.24	832	13.63
12/9/2010 10:00	23467	2_60	2010	343	1000	68.73	34.31	24.68	184.3	2.765	261.3	926	13.6
12/9/2010 11:00	23468	2_60	2010	343	1100	56.95	38.52	24.67	263.4	2.014	300.5	1053	13.54
12/9/2010 12:00	23469	2_60	2010	343	1200	52.39	40.59	24.65	251.2	1.98	341.1	1105	13.48
12/9/2010 13:00	23470	2_60	2010	343	1300	50.8	41.46	24.61	167.7	1.911	9.58	1247	13.44
12/9/2010 14:00	23471	2_60	2010	343	1400	49.64	42.76	24.6	226.7	2.185	340.2	1344	13.42
12/9/2010 15:00	23472	2_60	2010	343	1500	47.25	44.17	24.59	195.6	1.98	338.8	1438	13.4
12/9/2010 16:00	23473	2_60	2010	343	1600	48.76	43.91	24.59	87.6	1.399	36.65	1522	13.4
12/9/2010 17:00	23474	2_60	2010	343	1700	55.87	41.51	24.59	16.17	1.195	199.7	1643	13.41
12/9/2010 18:00	23475	2_60	2010	343	1800	59.67	38.97	24.58	0.097	1.946	66.13	1759	13.45
12/9/2010 19:00	23476	2_60	2010	343	1900	58.18	39.47	24.58	0	2.935	122.5	1840	13.48
12/9/2010 20:00	23477	2_60	2010	343	2000	65	37.56	24.6	0.001	5.188	312.5	1926	13.49
12/9/2010 21:00	23478	2_60	2010	343	2100	61.11	38.55	24.59	0.001	2.97	182.9	2013	13.5
12/9/2010 22:00	23479	2_60	2010	343	2200	63.15	38.26	24.6	0.001	1.946	233.4	2134	13.5
12/9/2010 23:00	23480	2_60	2010	343	2300	58.07	39.54	24.59	0	6.724	122.2	2229	13.51
12/10/2010 0:00	23481	2_60	2010	344	0	57.49	39.12	24.58	0.001	3.891	120.3	2300	13.5
12/10/2010 1:00	23482	2_60	2010	344	100	63.62	37.25	24.58	0.001	3.891	304.6	17	13.5
12/10/2010 2:00	23483	2_60	2010	344	200	64.75	36.61	24.57	0.001	2.253	301.1	138	13.52
12/10/2010 3:00	23484	2_60	2010	344	300	69.39	34.97	24.57	0.001	1.911	269	219	13.54
12/10/2010 4:00	23485	2_60	2010	344	400	69.88	35.17	24.56	0.001	1.843	72.42	313	13.56
12/10/2010 5:00	23486	2_60	2010	344	500	74.38	34	24.55	0.001	2.014	129.6	408	13.58
12/10/2010 6:00	23487	2_60	2010	344	600	76.14	34.21	24.55	0	1.604	212.6	554	13.6
12/10/2010 7:00	23488	2_60	2010	344	700	78.74	32.03	24.55	0.003	3.004	310.4	626	13.63
12/10/2010 8:00	23489	2_60	2010	344	800	81.9	31.08	24.56	13.44	2.321	240.3	702	13.65
12/10/2010 9:00	23490	2_60	2010	344	900	78.81	34.11	24.56	113.3	1.638	248.2	851	13.65
12/10/2010 10:00	23491	2_60	2010	344	1000	64.94	39.61	24.57	257.7	2.287	6.178	950	13.6
12/10/2010 11:00	23492	2_60	2010	344	1100	58.05	42.57	24.55	362.9	2.219	301.4	1009	13.52
12/10/2010 12:00	23493	2_60	2010	344	1200	54.64	44.77	24.53	309.9	3.174	2.801	1108	13.43
12/10/2010 13:00	23494	2_60	2010	344	1300	50.39	47.4	24.5	457.1	2.662	333	1207	13.38
12/10/2010 14:00	23495	2_60	2010	344	1400	39.31	51.76	24.47	348	10.62	229.7	1344	13.32
12/10/2010 15:00	23496	2_60	2010	344	1500	33.45	52.87	24.47	323.7	12.36	242.7	1455	13.29
12/10/2010 16:00	23497	2_60	2010	344	1600	36.1	51.23	24.48	170.8	14.27	216.9	1529	13.28
12/10/2010 17:00	23498	2_60	2010	344	1700	38.28	49.65	24.49	20.6	11.81	222.3	1634	13.32
12/10/2010 18:00	23499	2_60	2010	344	1800	40.07	48.86	24.49	0.737	10	219.5	1742	13.36
12/10/2010 19:00	23500	2_60	2010	344	1900	43.32	46.46	24.51	0.001	10.04	212.4	1804	13.38
12/10/2010 20:00	23501	2_60	2010	344	2000	47.98	43.13	24.52	0	3.311	184.5	1900	13.43
12/10/2010 21:00	23502	2_60	2010	344	2100	52.41	41.15	24.52	0	2.867	32.04	2054	13.47
12/10/2010 22:00	23503	2_60	2010	344	2200	52.51	41.71	24.53	0	2.56	186.7	2136	13.5
12/10/2010 23:00	23504	2_60	2010	344	2300	52.83	41.55	24.54	0.001	2.833	41.01	2217	13.49
12/11/2010 0:00	23505	2_60	2010	345	0	56.64	40.19	24.54	0	2.15	149.4	2316	13.51
12/11/2010 1:00	23506	2_60	2010	345	100	57.34	40.39	24.55	0.001	3.618	272.4	10	13.51
12/11/2010 2:00	23507	2_60	2010	345	200	57.44	40.26	24.56	0	3.072	344.2	145	13.5
12/11/2010 3:00	23508	2_60	2010	345	300	58.86	39.8	24.58	0	3.891	304.3	258	13.5
12/11/2010 4:00	23509	2_60	2010	345	400	57.07	39.86	24.59	0.001	3.447	302.5	307	13.5
12/11/2010 5:00	23510	2_60	2010	345	500	63.23	37.27	24.59	0.001	2.287	154.4	459	13.51
12/11/2010 6:00	23511	2_60	2010	345	600	62.71	37.85	24.61	0.001	2.15	142.7	500	13.52
12/11/2010 7:00	23512	2_60	2010	345	700	64.24	37.71	24.63	0.002	2.287	199.8	659	13.53
12/11/2010 8:00	23513	2_60	2010	345	800	66.71	36.17	24.64	10.77	2.458	74.66	711	13.53
12/11/2010 9:00	23514	2_60	2010	345	900	60.11	39.66	24.65	148.4	4.267	140	817	13.55
12/11/2010 10:00	23515	2_60	2010	345	1000	49.37	45.03	24.68	289.3	3.243	39.02	932	13.51
12/11/2010 11:00	23516	2_60	2010	345	1100	43.24	46.58	24.69	402.7	6.042	4.879	1056	13.43
12/11/2010 12:00	23517	2_60	2010	345	1200	36.8	47.36	24.68	446	7.168	352.6	1135	13.37
12/11/2010 13:00	23518	2_60	2010	345	1300	32.57	48.96	24.67	519.1	9.39	321.4	1218	13.32
12/11/2010 14:00	23519	2_60	2010	345	1400	32.45	48.87	24.66	379.4	4.983	303.9	1304	13.29
12/11/2010 15:00	23520	2_60	2010	345	1500	30.33	49.99	24.67	349.5	4.369	18.38	1459	13.26
12/11/2010 16:00	23521	2_60	2010	345	1600	31.31	47.49	24.68	144.7	6.963	349.9	1537	13.25
12/11/2010 17:00	23522	2_60	2010	345	1700	42.3	40.78	24.68	11.13	3.174	8.18	1637	13.32
12/11/2010 18:00	23523	2_60	2010	345	1800	48.15	38.4	24.7	0.209	4.54	296.2	1747	13.46
12/11/2010 19:00	23524	2_60	2010	345	1900	54.59	35.99	24.71	0	3.14	261.2	1804	13.53
12/11/2010 20:00	23525	2_60	2010	345	2000	56.25	35.56	24.72	0	3.038	170.6	1939	13.58
12/11/2010 21:00	23526	2_60	2010	345	2100	54.91	36.13	24.73	0	2.15	175.8	2014	13.6
12/11/2010 22:00	23527	2_60	2010	345	2200	59.66	33.93	24.75	0	4.574	306.3	2129	13.62
12/11/2010 23:00	23528	2_60	2010	345	2300	64.34	32.16	24.74	0	1.98	92.8	2221	13.64

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
12/12/2010 0:00	23529	2_60	2010	346	0	1.882503	284.6155	11.46827	4.927	13.76	3.753	9.59	-0.442	1.75	2.191869
12/12/2010 1:00	23530	2_60	2010	346	100	1.138427	267.574	34.12933	1.506	12.25	2.318	7.619	-2.221	0.831	3.051476
12/12/2010 2:00	23531	2_60	2010	346	200	1.294446	117.1671	51.99292	-0.197	16.52	0.668	15.62	-2.203	0.882	3.085384
12/12/2010 3:00	23532	2_60	2010	346	300	0.6152481	215.713	34.73423	-0.082	4.091	-0.013	2.093	-0.782	0.335	1.117226
12/12/2010 4:00	23533	2_60	2010	346	400	1.945368	270.0673	21.24278	1.694	13.55	4.074	10.21	-0.877	-0.364	0.5137241
12/12/2010 5:00	23534	2_60	2010	346	500	0.9924844	118.2741	41.9698	1.929	10.18	0.098	6.359	-1.541	0.634	2.174559
12/12/2010 6:00	23535	2_60	2010	346	600	1.939594	286.7822	22.04132	10.54	11.15	4.413	8.86	-2.64	-0.405	2.235325
12/12/2010 7:00	23536	2_60	2010	346	700	1.14176	266.4261	43.1467	3.65	11.66	3.225	9.13	-2.712	-1.281	1.431288
12/12/2010 8:00	23537	2_60	2010	346	800	0.6673632	107.9011	25.36159	-0.021	2.77	-0.113	1.468	-2.839	-0.937	1.901809
12/12/2010 9:00	23538	2_60	2010	346	900	0.7723498	69.35167	20.67617	0.258	2.805	-0.23	1.265	-0.578	-0.005	0.5727872
12/12/2010 10:00	23539	2_60	2010	346	1000	0.398335	6.69047	45.59599	2.782	29.19	3.502	23.82	1.917	1.478	-0.4394884
12/12/2010 11:00	23540	2_60	2010	346	1100	0.6522584	345.4248	41.00102	13.79	40.37	13.18	35.16	4.087	3.506	-0.5808588
12/12/2010 12:00	23541	2_60	2010	346	1200	1.59126	310.217	28.40541	6.877	42.1	3.893	40.3	5.434	4.69	-0.7448714
12/12/2010 13:00	23542	2_60	2010	346	1300	1.33219	280.0477	30.11076	5.855	35.75	6.839	34.24	6.637	5.974	-0.6629032
12/12/2010 14:00	23543	2_60	2010	346	1400	1.284976	274.3486	30.8239	0.935	40.26	2.639	36.81	8.84	8.14	-0.6995206
12/12/2010 15:00	23544	2_60	2010	346	1500	1.548736	203.0583	21.57952	2.457	33.36	10.99	33.69	9.87	9.05	-0.8292069
12/12/2010 16:00	23545	2_60	2010	346	1600	2.04621	176.7449	10.58891	5.923	9.84	10.79	12.37	7.652	9.34	1.692735
12/12/2010 17:00	23546	2_60	2010	346	1700	2.22449	163.7411	7.230914	3.404	8.06	5.71	9.79	5.21	9.28	4.066278
12/12/2010 18:00	23547	2_60	2010	346	1800	1.565124	192.3697	13.86472	5.166	14.22	8.96	17.03	3.8	7.884	4.083527
12/12/2010 19:00	23548	2_60	2010	346	1900	1.077983	165.0633	23.95359	1.892	6.525	1.617	5.508	2.892	7.637	4.745019
12/12/2010 20:00	23549	2_60	2010	346	2000	0.6832308	176.834	27.03331	2.911	13.13	1.891	10.74	3.153	7.176	4.023168
12/12/2010 21:00	23550	2_60	2010	346	2100	0.857058	236.7502	21.99346	3.63	8.36	0.87	4.228	2.515	6.331	3.815455
12/12/2010 22:00	23551	2_60	2010	346	2200	0.9935361	257.1542	27.69889	1.822	8.4	0.404	3.274	1.891	3.895	2.004271
12/12/2010 23:00	23552	2_60	2010	346	2300	0.8026442	118.3542	32.5891	0.517	3.653	0.185	2.74	0.159	3.452	3.293305
12/13/2010 0:00	23553	2_60	2010	347	0	1.448417	261.5123	19.02045	6.16	13.04	4.119	9.02	-0.045	2.858	2.902974
12/13/2010 1:00	23554	2_60	2010	347	100	0.8036724	154.683	36.26664	0.642	3.596	-0.146	1.145	-0.718	1.749	2.466895
12/13/2010 2:00	23555	2_60	2010	347	200	0.4807645	258.0306	35.54258	0.667	3.955	-0.003	2.232	-0.728	1.813	2.540727
12/13/2010 3:00	23556	2_60	2010	347	300	1.670143	280.2216	12.19517	5.829	10.26	2.876	7.237	-1.225	0.253	1.477606
12/13/2010 4:00	23557	2_60	2010	347	400	1.641627	269.6904	20.64285	2.536	9.64	1.48	4.89	-1.904	-0.168	1.73595
12/13/2010 5:00	23558	2_60	2010	347	500	0.7642139	257.0601	16.53712	1.002	5.024	-0.247	0.281	-2.619	-0.749	1.869374
12/13/2010 6:00	23559	2_60	2010	347	600	0.2511938	230.7506	9.855816	0.352	2.567	-0.241	0.374	-3.287	-0.21	3.077069
12/13/2010 7:00	23560	2_60	2010	347	700	0.2991504	258.1605	17.61673	-0.282	1.779	-0.243	0.117	-2.622	-0.348	2.273541
12/13/2010 8:00	23561	2_60	2010	347	800	0.783584	288.5663	11.33379	0.057	4.507	-0.183	1.266	-3.583	-1.272	2.311658
12/13/2010 9:00	23562	2_60	2010	347	900	0.7083771	270.2169	26.06206	1.602	7.026	-0.029	1.537	-2.445	-1.664	0.7816266
12/13/2010 10:00	23563	2_60	2010	347	1000	0.5929807	307	23.81559	1.623	19.48	1.352	13.59	0.095	-0.389	-0.4835703
12/13/2010 11:00	23564	2_60	2010	347	1100	0.4126128	34.73019	36.92903	-2.799	37.18	-2.396	34.05	2.806	2.338	-0.468103
12/13/2010 12:00	23565	2_60	2010	347	1200	0.6103314	27.55698	46.23244	-3.804	42.88	-4.428	39.07	5.819	5.239	-0.5793251
12/13/2010 13:00	23566	2_60	2010	347	1300	0.8279312	333.9819	54.58895	2.409	49	0.946	44.18	8.07	7.403	-0.6636047
12/13/2010 14:00	23567	2_60	2010	347	1400	1.119597	320.4014	36.32805	4.94	45.84	2.448	41.29	9.3	8.68	-0.6259453
12/13/2010 15:00	23568	2_60	2010	347	1500	0.738928	263.3344	54.01488	-5.018	38.93	-1.578	34.17	10.62	10.02	-0.5963269
12/13/2010 16:00	23569	2_60	2010	347	1600	0.8422698	275.4829	20.21165	3.276	11.85	2.102	10.42	9.78	9.87	0.09514788
12/13/2010 17:00	23570	2_60	2010	347	1700	0.9419823	287.3082	22.57133	1.822	5.223	-0.135	1.549	6.533	8.54	2.008962
12/13/2010 18:00	23571	2_60	2010	347	1800	0.6725415	216.5602	22.05438	0.423	2.974	0.055	1.843	4.722	8.38	3.660649
12/13/2010 19:00	23572	2_60	2010	347	1900	0.6436365	163.3379	24.37466	-0.142	3.382	-0.251	0.245	3.822	8.34	4.517952
12/13/2010 20:00	23573	2_60	2010	347	2000	0.5537247	251.8418	29.85837	0.817	3.935	-0.19	0.833	3.79	7.835	4.044937
12/13/2010 21:00	23574	2_60	2010	347	2100	0.897624	252.407	16.1445	1.654	5.094	-0.004	1.638	3.653	6.637	2.983801
12/13/2010 22:00	23575	2_60	2010	347	2200	0.3631191	224.008	12.07332	-0.359	0.793	-0.249	0.117	3.272	6.317	3.045187
12/13/2010 23:00	23576	2_60	2010	347	2300	0.3677853	232.7809	32.79141	-0.163	2.781	-0.276	0.107	2.562	5.809	3.247508
12/14/2010 0:00	23577	2_60	2010	348	0	0.6060902	75.24686	33.0919	0.364	3.939	-0.2	0.238	2.094	5.043	2.9491
12/14/2010 1:00	23578	2_60	2010	348	100	1.182173	289.7815	15.05574	-1.445	8.63	0.621	3.723	1.586	3.378	1.791337
12/14/2010 2:00	23579	2_60	2010	348	200	1.220714	259.4769	20.68172	0.859	9.17	2.258	5.744	0.136	2.819	2.683252
12/14/2010 3:00	23580	2_60	2010	348	300	0.8428952	19.49554	27.62692	1.051	4.295	-0.062	1.847	0.09	2.844	2.753986
12/14/2010 4:00	23581	2_60	2010	348	400	1.922977	292.7407	37.85241	8.78	14.26	7.526	13.72	-1.388	1.773	3.160457
12/14/2010 5:00	23582	2_60	2010	348	500	1.015949	232.496	30.04674	2.334	9.32	1.042	7.81	-1.472	1.94	3.412617
12/14/2010 6:00	23583	2_60	2010	348	600	1.321264	288.6273	40.95103	1.543	5.255	-0.008	1.949	-1.948	1.705	3.653419
12/14/2010 7:00	23584	2_60	2010	348	700	0.9319849	290.4718	15.73319	1.67	6.739	0.539	3.124	-2.956	-0.112	2.843878
12/14/2010 8:00	23585	2_60	2010	348	800	0.6199774	153.7344	33.8723	-0.19	2.177	-0.236	0.339	-2.903	0.047	2.9503
12/14/2010 9:00	23586	2_60	2010	348	900	0.5113985	123.7208	32.58257	0.196	2.766	-0.171	1.012	-0.427	0.775	1.20187
12/14/2010 10:00	23587	2_60	2010	348	1000	0.8439437	318.3064	26.46389	5.845	16.27	3.077	10.04	1.785	1.376	-0.4085337
12/14/2010 11:00	23588	2_60	2010	348	1100	0.8476707	319.0693	51.71704	2.088	24.89	1.338	21.75	2.539	2.047	-0.4919056
12/14/2010 12:00	23589	2_60	2010	348	1200	0.7959278	340.1243	45.85946	-5.986	40.89	-7.667	37.4	5.564	4.884	-0.6800182
12/14/2010 13:00	23590	2_60	2010	348	1300	1.023314	288.8162	43.45971	1.716	32.39	2.838	28.19	7.323	6.764	-0.5585921
12/14/2010 14:00	23591	2_60	2010	348	1400	0.9336016	352.8696	69.82404	-1.425	31.01	-2.058	27.15	9.34	8.79	-0.5478013
12/14/2010 15:00	23592	2_60	2010	348	1500	1.435473	14.14953	73.8836	6.715	69.31	5.33	69.35	13.11	12.63	-0.4856336
12/14/2010 16:00	23593	2_60	2010	348	1600	2.126444	178.8748	62.3173	2.409	65.05	7.59	65.92	13.02	12.88	-0.1380431
12/14/2010 17:00	23594	2_60	2010	348	1700	4.279901	175.7599	35.48421	3.935	52.9	26.69	58.94	12.24	12.73	0.4938357
12/14/2010 18:00	23595	2_60	2010	348	1800	2.524866	179.7575	58.6047	2.559	57.91	13.51	59.7	10.94	12.2	1.259131
12/14/2010 19:00	23596	2_60	2010	348	1900	3.253138	243.3749	37.00698	1.763	52.67	14.83	60.33	9.89	11.48	1.592042
12/14/2010 20:00	23597	2_60	2010	348	2000	1.529511	268.0564	38.48696	5.986	27.14	5.961	24.57	6.908	9.67	2.759566
12/14/2010 21:00	23598	2_60	2010	348	2100	3.178651	203.5526	22.26924	14.59	45.99	28.7	54.45	8.81	11.22	2.413283
12/14/2010 22:00	23599	2_60	2010	348	2200	1.09192	237.9676	36.24909	2.862	21.04	4.472	18.52	7.198	9.56	2.364489
12/14/2010 23:00	23600	2_60	2010	348	2300	1.891236	157.3802	59.9152	-0.498	44.73	4.914	44.17	8.3	10.54	2.246057

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/12/2010 0:00	23529	2_60	2010	346	0	64.77	31.75	24.76	0	3.652	302.7	2352	13.66
12/12/2010 1:00	23530	2_60	2010	346	100	72.99	28.61	24.77	0	2.731	270.8	16	13.68
12/12/2010 2:00	23531	2_60	2010	346	200	72.62	28.82	24.77	0	3.994	124.1	154	13.7
12/12/2010 3:00	23532	2_60	2010	346	300	70.36	30.72	24.79	0	1.98	207.6	258	13.69
12/12/2010 4:00	23533	2_60	2010	346	400	71.11	30.95	24.79	0.001	3.447	292.2	326	13.66
12/12/2010 5:00	23534	2_60	2010	346	500	71.97	29.78	24.79	0.001	2.185	67.71	419	13.65
12/12/2010 6:00	23535	2_60	2010	346	600	75.47	27.78	24.8	0	3.959	294.4	557	13.68
12/12/2010 7:00	23536	2_60	2010	346	700	76.35	27.43	24.82	0.004	3.755	298.4	600	13.71
12/12/2010 8:00	23537	2_60	2010	346	800	75.7	27.38	24.82	18.2	2.116	70.23	727	13.73
12/12/2010 9:00	23538	2_60	2010	346	900	70.57	32.68	24.84	135.4	1.673	64.26	835	13.71
12/12/2010 10:00	23539	2_60	2010	346	1000	54.25	38.34	24.86	300.8	1.468	310.9	902	13.64
12/12/2010 11:00	23540	2_60	2010	346	1100	45.78	41.88	24.84	407.7	3.14	305.8	1059	13.54
12/12/2010 12:00	23541	2_60	2010	346	1200	43.94	43.7	24.82	471.1	3.55	302.6	1115	13.44
12/12/2010 13:00	23542	2_60	2010	346	1300	40.87	45.74	24.79	437.6	2.935	350.2	1202	13.37
12/12/2010 14:00	23543	2_60	2010	346	1400	36.65	50.2	24.77	450.9	3.413	301.4	1319	13.3
12/12/2010 15:00	23544	2_60	2010	346	1500	36.89	51.1	24.75	345.3	3.686	183.7	1432	13.25
12/12/2010 16:00	23545	2_60	2010	346	1600	45.27	46.69	24.76	144.4	3.482	171.9	1548	13.25
12/12/2010 17:00	23546	2_60	2010	346	1700	54.92	41.69	24.77	11.07	3.277	158.6	1616	13.35
12/12/2010 18:00	23547	2_60	2010	346	1800	59.28	39.34	24.77	0.442	2.901	193.3	1707	13.44
12/12/2010 19:00	23548	2_60	2010	346	1900	64.13	37.49	24.77	0	2.56	167.5	1830	13.51
12/12/2010 20:00	23549	2_60	2010	346	2000	61.92	38.42	24.77	0	2.014	157.4	1902	13.55
12/12/2010 21:00	23550	2_60	2010	346	2100	66.3	37.26	24.77	0	2.423	298.2	2054	13.58
12/12/2010 22:00	23551	2_60	2010	346	2200	69.15	35.98	24.77	0	2.116	307.4	2105	13.6
12/12/2010 23:00	23552	2_60	2010	346	2300	76	33.07	24.77	0	1.877	83.4	2211	13.63
12/13/2010 0:00	23553	2_60	2010	347	0	77.25	32.37	24.78	0	3.482	294.5	2335	13.65
12/13/2010 1:00	23554	2_60	2010	347	100	80.2	31.18	24.78	0	1.707	64.4	51	13.67
12/13/2010 2:00	23555	2_60	2010	347	200	80	31.17	24.77	0	1.229	248.9	135	13.68
12/13/2010 3:00	23556	2_60	2010	347	300	80.8	30.28	24.77	0	2.935	259.3	257	13.69
12/13/2010 4:00	23557	2_60	2010	347	400	83.6	29	24.76	0	2.799	304.3	348	13.7
12/13/2010 5:00	23558	2_60	2010	347	500	85.6	27.8	24.75	0	1.741	307.9	400	13.72
12/13/2010 6:00	23559	2_60	2010	347	600	87.8	26.62	24.74	0	1.331	191.5	508	13.74
12/13/2010 7:00	23560	2_60	2010	347	700	85.4	28.02	24.73	0.005	1.161	256.9	659	13.74
12/13/2010 8:00	23561	2_60	2010	347	800	87.4	26.28	24.74	11.92	2.048	290.2	757	13.75
12/13/2010 9:00	23562	2_60	2010	347	900	81.5	30.29	24.75	156.2	2.355	297	806	13.74
12/13/2010 10:00	23563	2_60	2010	347	1000	72.94	35.27	24.75	305.1	1.604	313.6	949	13.67
12/13/2010 11:00	23564	2_60	2010	347	1100	63.91	40.01	24.73	424.8	1.57	334	1021	13.57
12/13/2010 12:00	23565	2_60	2010	347	1200	53.13	45.18	24.69	494.3	2.662	68.08	1127	13.46
12/13/2010 13:00	23566	2_60	2010	347	1300	46.36	49.02	24.66	510.2	2.048	339.5	1250	13.35
12/13/2010 14:00	23567	2_60	2010	347	1400	43.37	50.92	24.63	458.7	3.413	326.3	1314	13.27
12/13/2010 15:00	23568	2_60	2010	347	1500	39.14	53.86	24.61	358.9	2.219	203.4	1457	13.22
12/13/2010 16:00	23569	2_60	2010	347	1600	46.28	50.6	24.61	120.2	1.707	289.6	1520	13.24
12/13/2010 17:00	23570	2_60	2010	347	1700	57.68	44.48	24.61	24.57	1.604	255.9	1609	13.32
12/13/2010 18:00	23571	2_60	2010	347	1800	63.99	40.89	24.61	1.051	1.843	200.7	1759	13.41
12/13/2010 19:00	23572	2_60	2010	347	1900	66.65	39.23	24.61	0	1.434	170.3	1822	13.47
12/13/2010 20:00	23573	2_60	2010	347	2000	66.06	39.32	24.6	0.001	1.911	307.9	1947	13.51
12/13/2010 21:00	23574	2_60	2010	347	2100	65.85	39.19	24.6	0	1.843	260.6	2014	13.54
12/13/2010 22:00	23575	2_60	2010	347	2200	67.75	38.46	24.59	0.001	1.229	215.7	2100	13.56
12/13/2010 23:00	23576	2_60	2010	347	2300	70.77	37.2	24.59	0.001	0.922	54.28	2257	13.57
12/14/2010 0:00	23577	2_60	2010	348	0	72.01	36.39	24.58	0.001	1.331	352.2	2346	13.59
12/14/2010 1:00	23578	2_60	2010	348	100	74.32	35.44	24.58	0	2.867	290.5	47	13.6
12/14/2010 2:00	23579	2_60	2010	348	200	79.54	32.85	24.57	0	2.458	287.9	103	13.62
12/14/2010 3:00	23580	2_60	2010	348	300	79.18	32.74	24.54	0	1.775	235.9	255	13.64
12/14/2010 4:00	23581	2_60	2010	348	400	84.4	30.1	24.54	0	4.676	303.9	326	13.66
12/14/2010 5:00	23582	2_60	2010	348	500	83.3	30.1	24.53	0	1.911	71.81	452	13.68
12/14/2010 6:00	23583	2_60	2010	348	600	86	28.96	24.51	0	2.219	256.6	557	13.7
12/14/2010 7:00	23584	2_60	2010	348	700	88.2	27.21	24.52	0	2.116	272.2	600	13.72
12/14/2010 8:00	23585	2_60	2010	348	800	87.9	27.46	24.52	12.17	1.297	186.9	724	13.73
12/14/2010 9:00	23586	2_60	2010	348	900	79.82	32.93	24.52	167.4	1.638	47.37	819	13.71
12/14/2010 10:00	23587	2_60	2010	348	1000	72.61	37.54	24.52	259.1	2.423	332.1	929	13.63
12/14/2010 11:00	23588	2_60	2010	348	1100	71.91	38.11	24.49	298.5	1.843	292.2	1026	13.53
12/14/2010 12:00	23589	2_60	2010	348	1200	57.67	44.28	24.44	486.6	2.628	20.59	1144	13.46
12/14/2010 13:00	23590	2_60	2010	348	1300	49.48	46.83	24.4	339.7	2.526	324.3	1222	13.38
12/14/2010 14:00	23591	2_60	2010	348	1400	41.47	50.36	24.38	347.1	2.867	15.77	1357	13.34
12/14/2010 15:00	23592	2_60	2010	348	1500	24.78	57.01	24.36	332.4	5.734	227.4	1454	13.27
12/14/2010 16:00	23593	2_60	2010	348	1600	18.85	56.03	24.35	106.3	6.622	193.8	1523	13.25
12/14/2010 17:00	23594	2_60	2010	348	1700	17.94	54.45	24.34	24.95	9.11	180.4	1636	13.28
12/14/2010 18:00	23595	2_60	2010	348	1800	18.83	52.04	24.34	0.084	10.14	158.3	1759	13.31
12/14/2010 19:00	23596	2_60	2010	348	1900	20.81	50.29	24.33	0	12.15	174.1	1801	13.34
12/14/2010 20:00	23597	2_60	2010	348	2000	28.37	44.77	24.32	0	4.096	301.4	1938	13.39
12/14/2010 21:00	23598	2_60	2010	348	2100	23.65	48.49	24.31	0	8.43	167.2	2006	13.42
12/14/2010 22:00	23599	2_60	2010	348	2200	28.49	45.29	24.31	0	3.004	294.6	2103	13.43
12/14/2010 23:00	23600	2_60	2010	348	2300	27.09	46.97	24.29	0	6.622	160.1	2255	13.43

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
12/15/2010 0:00	23601	2_60	2010	349	0	3.978963	157.5217	21.50594	11.05	69.1	28.96	75.45	11.65	12.05	0.391725
12/15/2010 1:00	23602	2_60	2010	349	100	2.585818	324.3833	66.89079	-7.07	90.3	-9.04	93.5	10	11.1	1.096434
12/15/2010 2:00	23603	2_60	2010	349	200	4.859523	169.0974	50.59745	-15.26	137.7	4.727	144.7	11.51	11.44	-0.06697592
12/15/2010 3:00	23604	2_60	2010	349	300	6.006536	159.4348	39.14259	-12.47	147	13.05	157.9	11.31	11.23	-0.07627376
12/15/2010 4:00	23605	2_60	2010	349	400	5.465449	166.3739	42.73351	-8.65	132.7	16.23	142.7	10.58	10.52	-0.06081299
12/15/2010 5:00	23606	2_60	2010	349	500	5.743032	151.8043	36.25452	-0.157	145.3	20.45	158.1	10.36	10.29	-0.06726751
12/15/2010 6:00	23607	2_60	2010	349	600	4.873025	149.9861	49.48068	-11.82	127	6.232	137.3	9.94	9.93	-0.01385399
12/15/2010 7:00	23608	2_60	2010	349	700	5.828936	172.3822	29.57638	10.99	118.2	40.51	129.9	9.63	9.6	-0.02849933
12/15/2010 8:00	23609	2_60	2010	349	800	6.241141	184.7379	31.41364	-0.102	128.4	34.81	139.6	9.28	9.22	-0.05993104
12/15/2010 9:00	23610	2_60	2010	349	900	8.108947	192.5241	17.34958	24.26	122.4	79.32	137.6	9.09	8.99	-0.1066192
12/15/2010 10:00	23611	2_60	2010	349	1000	8.866957	212.0347	18.39157	6.785	119.5	69.32	138.4	9.32	9.04	-0.2809402
12/15/2010 11:00	23612	2_60	2010	349	1100	8.124586	217.8536	16.24749	15.82	109.7	73.28	125.6	9.97	9.37	-0.605902
12/15/2010 12:00	23613	2_60	2010	349	1200	4.956341	228.0141	21.15133	5.515	84.4	34.06	90.9	10.47	9.81	-0.6561403
12/15/2010 13:00	23614	2_60	2010	349	1300	5.065481	261.0074	18.36322	10.43	64.87	31.19	70.95	11.3	10.37	-0.9312094
12/15/2010 14:00	23615	2_60	2010	349	1400	5.779987	272.7252	16.77728	18.04	54.66	35.41	61.35	10.24	9.81	-0.4258495
12/15/2010 15:00	23616	2_60	2010	349	1500	5.930419	291.5894	12.12463	22.23	49.47	23.75	53.07	9.2	8.84	-0.3574495
12/15/2010 16:00	23617	2_60	2010	349	1600	6.207859	257.808	10.10074	8.68	47.58	42.4	56.06	8.69	8.4	-0.295159
12/15/2010 17:00	23618	2_60	2010	349	1700	4.875897	246.0356	8.799277	16.44	37.53	43.55	43.52	8.04	8.02	-0.01974657
12/15/2010 18:00	23619	2_60	2010	349	1800	4.467577	240.6631	11.71009	17.98	27.26	46.47	31.58	7.136	7.373	0.2366534
12/15/2010 19:00	23620	2_60	2010	349	1900	1.879857	245.4401	40.37666	17	23.54	27.83	31.85	6.063	6.593	0.5299987
12/15/2010 20:00	23621	2_60	2010	349	2000	2.265508	278.6335	20.83409	14.65	20.24	24.51	30.74	5.137	5.968	0.8315829
12/15/2010 21:00	23622	2_60	2010	349	2100	0.9042481	309.5809	24.41782	3.472	8.7	0.636	4.684	4.043	5.503	1.460507
12/15/2010 22:00	23623	2_60	2010	349	2200	0.4442984	173.0478	18.35121	0.019	2.567	-0.064	1.805	1.848	5.123	3.274982
12/15/2010 23:00	23624	2_60	2010	349	2300	1.279025	192.643	19.08892	4.537	9.71	8.51	13.4	1.135	4.337	3.202251
12/16/2010 0:00	23625	2_60	2010	350	0	1.393572	271.7813	17.75552	3.043	10.23	3.595	7.843	0.505	3.231	2.726557
12/16/2010 1:00	23626	2_60	2010	350	100	0.9797133	231.0997	31.26967	1.447	5.303	0.216	2.94	-0.166	2.234	2.399434
12/16/2010 2:00	23627	2_60	2010	350	200	0.601029	288.9592	57.11171	1.479	6.894	0.376	3.898	-0.443	1.316	1.759437
12/16/2010 3:00	23628	2_60	2010	350	300	0.4195253	329.7838	48.46947	-0.164	4.155	-0.326	2.759	-0.396	0.352	0.7482231
12/16/2010 4:00	23629	2_60	2010	350	400	0.8010231	95.95412	37.72155	0.79	6.792	-0.042	4.463	-1.08	0.28	1.360458
12/16/2010 5:00	23630	2_60	2010	350	500	0.8331021	270.335	25.2747	0.688	8.19	0.456	4.317	-1.816	-0.223	1.59243
12/16/2010 6:00	23631	2_60	2010	350	600	0.4345767	205.1177	29.80913	0.087	2.413	-0.214	0.302	-1.24	-0.004	1.235866
12/16/2010 7:00	23632	2_60	2010	350	700	0.8705115	135.4381	27.00464	0.666	3.81	-0.271	1.02	-1.164	0.525	1.688861
12/16/2010 8:00	23633	2_60	2010	350	800	0.7765028	150.4621	39.50095	0.637	6.554	-0.167	5.005	-1.034	0.484	1.517508
12/16/2010 9:00	23634	2_60	2010	350	900	1.131735	267.4489	33.84282	3.118	8.13	0.531	5.152	-1.334	-0.692	0.6421686
12/16/2010 10:00	23635	2_60	2010	350	1000	0.4985711	287.8199	21.03386	2.153	11.85	1.661	8.05	-0.356	-0.693	-0.3375654
12/16/2010 11:00	23636	2_60	2010	350	1100	1.139453	281.2436	16.34518	5.27	18.46	3.74	15.5	1.165	0.651	-0.5136707
12/16/2010 12:00	23637	2_60	2010	350	1200	1.026046	293.7442	23.93208	11.1	22.97	7.498	19.83	2.237	1.729	-0.5080083
12/16/2010 13:00	23638	2_60	2010	350	1300	1.572517	310.0615	20.82353	3.432	30.32	0.004	28.77	2.983	2.413	-0.5696303
12/16/2010 14:00	23639	2_60	2010	350	1400	1.548082	305.0518	16.26371	2.088	22.33	-0.214	19.1	3.632	3.074	-0.5580223
12/16/2010 15:00	23640	2_60	2010	350	1500	1.972534	308.9634	11.7802	8.99	19.88	4.621	17.85	4.173	3.618	-0.5554143
12/16/2010 16:00	23641	2_60	2010	350	1600	2.718124	324.9372	10.63738	12.86	15.99	4.879	15.42	4.31	3.908	-0.4027665
12/16/2010 17:00	23642	2_60	2010	350	1700	0.851717	275.6735	10.009	-0.713	5.302	-0.169	0.991	3.13	3.637	0.5063913
12/16/2010 18:00	23643	2_60	2010	350	1800	0.9588615	287.2716	15.59085	1.53	9.31	1.716	6.13	1.208	3.179	1.970664
12/16/2010 19:00	23644	2_60	2010	350	1900	2.347202	294.8806	15.62895	9.71	14.09	5.362	10.93	1.116	2.652	1.535441
12/16/2010 20:00	23645	2_60	2010	350	2000	1.291627	268.4972	21.974	-0.648	14.6	-0.054	13.12	1.335	2.511	1.175793
12/16/2010 21:00	23646	2_60	2010	350	2100	1.389789	282.4877	13.59364	-0.216	11.04	1.352	8.94	0.733	2.345	1.612211
12/16/2010 22:00	23647	2_60	2010	350	2200	2.545741	260.6829	12.1083	5.934	15.84	13.08	16.79	0.199	1.703	1.504892
12/16/2010 23:00	23648	2_60	2010	350	2300	3.241997	251.9288	9.117074	12.91	21.24	28.29	26.31	0.402	1.443	1.040956
12/17/2010 0:00	23649	2_60	2010	351	0	1.427423	224.4471	35.36357	9.02	16.71	13.1	20.98	-0.306	0.871	1.176931
12/17/2010 1:00	23650	2_60	2010	351	100	0.6368429	210.9756	17.40346	1.782	7.008	0.143	2.685	-1.318	0.743	2.061146
12/17/2010 2:00	23651	2_60	2010	351	200	0.3785664	317.0334	23.2767	0.351	5.061	-0.57	2.567	-1.307	0.164	1.471193
12/17/2010 3:00	23652	2_60	2010	351	300	0.3244097	33.2432	16.35888	0.38	2.394	-0.263	0.143	-1.767	-0.61	1.157128
12/17/2010 4:00	23653	2_60	2010	351	400	0.2075013	61.92613	21.27908	-0.482	1.439	-0.276	0.08	-1.614	-0.482	1.132074
12/17/2010 5:00	23654	2_60	2010	351	500	0.4124153	39.10747	36.64703	0.686	7.922	0.701	6.447	-1.874	-0.801	1.073085
12/17/2010 6:00	23655	2_60	2010	351	600	1.038326	79.24194	33.15445	1.111	9.83	0.146	7.069	-2.39	-1.17	1.220643
12/17/2010 7:00	23656	2_60	2010	351	700	0.5072768	144.8891	23.67926	0.042	7.09	0.399	4.465	-2.908	-1.401	1.506894
12/17/2010 8:00	23657	2_60	2010	351	800	0.7198992	157.2508	23.38302	2.607	10.41	1.495	8.2	-3.053	-1.558	1.494319
12/17/2010 9:00	23658	2_60	2010	351	900	0.2734356	300.1007	24.09341	2.187	10.57	1.464	7.742	-2.608	-2.141	0.4668542
12/17/2010 10:00	23659	2_60	2010	351	1000	0.699591	119.4165	47.45276	4.816	27.32	3.671	26.71	0.038	-0.602	-0.6403269
12/17/2010 11:00	23660	2_60	2010	351	1100	0.7351728	337.3717	42.92332	-13.49	35.37	-12.95	33.29	0.96	0.417	-0.5424463
12/17/2010 12:00	23661	2_60	2010	351	1200	1.263726	280.7161	51.04841	8.97	56.73	8.43	53.07	2.303	1.545	-0.7581636
12/17/2010 13:00	23662	2_60	2010	351	1300	1.584352	296.416	37.77238	7.778	43.69	6.692	41.27	3.524	2.678	-0.8461246
12/17/2010 14:00	23663	2_60	2010	351	1400	2.089751	288.4718	34.55561	0.397	42.7	2.011	43.47	5.09	4.372	-0.7181097
12/17/2010 15:00	23664	2_60	2010	351	1500	2.56338	268.5528	29.42155	-4.107	48.4	3.778	50.47	6.159	5.435	-0.7235322
12/17/2010 16:00	23665	2_60	2010	351	1600	4.335431	196.8446	27.12437	7.331	62.16	31.07	71.55	5.788	5.414	-0.3744507
12/17/2010 17:00	23666	2_60	2010	351	1700	5.497193	198.9213	9.177114	14.04	44.73	54.54	52.09	4.429	4.436	0.007730546
12/17/2010 18:00	23667	2_60	2010	351	1800	5.488367	219.7776	15.00251	4.218	59.73	41.27	68.38	4.002	4.058	0.056393
12/17/2010 19:00	23668	2_60	2010	351	1900	7.08899	200.2876	14.41863	18.91	78.29	70.99	90.2	3.47	3.52	0.05077811
12/17/2010 20:00	23669	2_60	2010	351	2000	8.538738	194.4355	6.736124	14.4	48.74	83	58.98	3.234	3.249	0.01457202
12/17/2010 21:00	23670	2_60	2010	351	2100	6.061941	191.9266	20.41968	4.986	68.62	44.71	79.38	3.136	3.028	-0.1083078
12/17/2010 22:00	23671	2_60	2010	351	2200	4.376673	205.1936	31.48907	2.31	68.1	28.22	77.4	1.488	1.346	-0.1412991
12/17/2010 23:00	23672	2_60	2010	351	2300	1.133821	64.65815	53.95492	3.851	38.78	1.602	37.19	0.6	0.508	-0.09167358

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/15/2010 0:00	23601	2_60	2010	349	0	19.7	53.34	24.27	0	8.81	145.3	2348	13.41
12/15/2010 1:00	23602	2_60	2010	349	100	24.05	50.38	24.24	0.001	7.714	302.7	33	13.38
12/15/2010 2:00	23603	2_60	2010	349	200	21.95	53.04	24.24	0	15.53	147.8	131	13.36
12/15/2010 3:00	23604	2_60	2010	349	300	21.7	52.7	24.23	0.001	16.86	144.2	220	13.34
12/15/2010 4:00	23605	2_60	2010	349	400	21.53	51.38	24.23	0.001	16.32	182	300	13.34
12/15/2010 5:00	23606	2_60	2010	349	500	20.89	50.98	24.2	0.001	15.19	149.3	435	13.35
12/15/2010 6:00	23607	2_60	2010	349	600	20.78	50.25	24.21	0	12.9	180.1	546	13.36
12/15/2010 7:00	23608	2_60	2010	349	700	21.02	49.68	24.23	0	13.69	170.3	639	13.37
12/15/2010 8:00	23609	2_60	2010	349	800	21.63	49.04	24.23	4.273	15.74	182.6	746	13.37
12/15/2010 9:00	23610	2_60	2010	349	900	22.89	48.68	24.24	46.95	16.45	182.5	800	13.38
12/15/2010 10:00	23611	2_60	2010	349	1000	23.69	49.06	24.25	145.4	15.67	221.9	938	13.37
12/15/2010 11:00	23612	2_60	2010	349	1100	24.36	50.19	24.27	307.9	14.85	203.5	1000	13.36
12/15/2010 12:00	23613	2_60	2010	349	1200	25.54	51.24	24.27	317.7	9.97	220.6	1107	13.33
12/15/2010 13:00	23614	2_60	2010	349	1300	26.9	53.07	24.26	383.9	11.4	277.9	1236	13.3
12/15/2010 14:00	23615	2_60	2010	349	1400	32.53	50.82	24.27	114.5	9.76	310.2	1353	13.3
12/15/2010 15:00	23616	2_60	2010	349	1500	38.06	48.95	24.28	91.3	9.83	302.6	1413	13.32
12/15/2010 16:00	23617	2_60	2010	349	1600	36.96	47.97	24.3	72.58	10.27	262.4	1502	13.34
12/15/2010 17:00	23618	2_60	2010	349	1700	35.24	46.79	24.32	24.73	8.7	234.3	1616	13.37
12/15/2010 18:00	23619	2_60	2010	349	1800	36.29	45.19	24.33	0.097	6.827	238.1	1723	13.39
12/15/2010 19:00	23620	2_60	2010	349	1900	39.88	43.32	24.34	0	4.437	236.3	1856	13.41
12/15/2010 20:00	23621	2_60	2010	349	2000	43.36	41.6	24.35	0	5.12	232.7	1926	13.45
12/15/2010 21:00	23622	2_60	2010	349	2100	47.64	39.76	24.36	0	2.526	326.5	2011	13.48
12/15/2010 22:00	23623	2_60	2010	349	2200	54.66	36.1	24.36	0	1.536	203.2	2126	13.53
12/15/2010 23:00	23624	2_60	2010	349	2300	58.05	34.51	24.37	0	2.458	213.7	2216	13.59
12/16/2010 0:00	23625	2_60	2010	350	0	60.11	33.49	24.37	0	2.697	291.6	2347	13.62
12/16/2010 1:00	23626	2_60	2010	350	100	62.73	32.31	24.37	0	1.877	203.7	21	13.65
12/16/2010 2:00	23627	2_60	2010	350	200	65.34	31.65	24.37	0	1.98	273.4	158	13.66
12/16/2010 3:00	23628	2_60	2010	350	300	66.32	31.52	24.38	0	1.195	273.7	200	13.67
12/16/2010 4:00	23629	2_60	2010	350	400	70.35	30.23	24.38	0	1.741	125.2	304	13.67
12/16/2010 5:00	23630	2_60	2010	350	500	73.17	29.27	24.38	0	1.775	271.1	454	13.68
12/16/2010 6:00	23631	2_60	2010	350	600	73.09	30.16	24.39	0	1.263	267.4	500	13.67
12/16/2010 7:00	23632	2_60	2010	350	700	77.22	30.32	24.4	0.001	2.321	54.75	634	13.65
12/16/2010 8:00	23633	2_60	2010	350	800	75.44	30.62	24.41	2.703	2.321	2.713	724	13.64
12/16/2010 9:00	23634	2_60	2010	350	900	79.37	30.01	24.42	43.28	3.072	331.3	824	13.64
12/16/2010 10:00	23635	2_60	2010	350	1000	70.53	32.04	24.43	105.7	2.185	310	959	13.62
12/16/2010 11:00	23636	2_60	2010	350	1100	60.91	35.09	24.41	183.4	2.492	345.8	1056	13.59
12/16/2010 12:00	23637	2_60	2010	350	1200	51.85	37.08	24.39	191.6	2.628	301.7	1153	13.55
12/16/2010 13:00	23638	2_60	2010	350	1300	46.65	38.48	24.36	241.7	3.072	312.3	1206	13.52
12/16/2010 14:00	23639	2_60	2010	350	1400	42.42	39.64	24.36	203.5	3.243	316.4	1317	13.48
12/16/2010 15:00	23640	2_60	2010	350	1500	42.44	40.24	24.36	157.8	3.482	315.2	1459	13.47
12/16/2010 16:00	23641	2_60	2010	350	1600	43.21	40.29	24.36	106	4.062	336.6	1515	13.47
12/16/2010 17:00	23642	2_60	2010	350	1700	49.12	38.1	24.36	23.84	2.185	271.7	1604	13.48
12/16/2010 18:00	23643	2_60	2010	350	1800	53.71	34.61	24.36	0.214	2.594	297.3	1754	13.53
12/16/2010 19:00	23644	2_60	2010	350	1900	50.01	34.23	24.37	0	4.267	304	1804	13.58
12/16/2010 20:00	23645	2_60	2010	350	2000	49.16	34.79	24.37	0	3.413	300.4	1900	13.59
12/16/2010 21:00	23646	2_60	2010	350	2100	51.93	33.77	24.38	0	3.755	292.7	2052	13.59
12/16/2010 22:00	23647	2_60	2010	350	2200	51.44	32.82	24.38	0	3.994	255.9	2123	13.61
12/16/2010 23:00	23648	2_60	2010	350	2300	49.45	33.09	24.4	0	4.745	243.6	2238	13.62
12/17/2010 0:00	23649	2_60	2010	351	0	52.26	31.98	24.4	0	4.028	239.6	2300	13.62
12/17/2010 1:00	23650	2_60	2010	351	100	57.91	30.1	24.4	0.001	2.253	295.5	52	13.64
12/17/2010 2:00	23651	2_60	2010	351	200	58.08	30.16	24.4	0	1.775	354.3	152	13.66
12/17/2010 3:00	23652	2_60	2010	351	300	60.55	29.37	24.41	0	1.502	37.81	217	13.66
12/17/2010 4:00	23653	2_60	2010	351	400	58.68	29.7	24.4	0	0.785	50.66	317	13.66
12/17/2010 5:00	23654	2_60	2010	351	500	60.9	28.92	24.41	0	2.014	244.6	451	13.67
12/17/2010 6:00	23655	2_60	2010	351	600	62.64	28.22	24.42	0	2.082	219.9	502	13.68
12/17/2010 7:00	23656	2_60	2010	351	700	61.5	27.21	24.44	0	1.843	145.6	608	13.69
12/17/2010 8:00	23657	2_60	2010	351	800	61.01	26.94	24.46	9.71	1.98	299.9	732	13.72
12/17/2010 9:00	23658	2_60	2010	351	900	59.88	29.68	24.48	139.2	1.024	239.5	853	13.68
12/17/2010 10:00	23659	2_60	2010	351	1000	43.58	35.01	24.49	298.7	2.116	134.7	926	13.66
12/17/2010 11:00	23660	2_60	2010	351	1100	40.83	36.07	24.47	413.8	2.219	26.68	1002	13.59
12/17/2010 12:00	23661	2_60	2010	351	1200	37.94	37.96	24.45	470.7	3.447	331.4	1123	13.51
12/17/2010 13:00	23662	2_60	2010	351	1300	33.7	40.49	24.43	495.4	3.413	306.7	1259	13.44
12/17/2010 14:00	23663	2_60	2010	351	1400	29.2	42.79	24.43	401.9	5.222	254.9	1341	13.38
12/17/2010 15:00	23664	2_60	2010	351	1500	29	44.26	24.42	271.5	6.895	237.8	1422	13.35
12/17/2010 16:00	23665	2_60	2010	351	1600	30.15	42.95	24.42	122.4	10.48	156.3	1533	13.38
12/17/2010 17:00	23666	2_60	2010	351	1700	32.95	40.31	24.43	22.44	9.42	189.1	1617	13.43
12/17/2010 18:00	23667	2_60	2010	351	1800	33.76	39.54	24.44	0.195	8.06	219.2	1715	13.47
12/17/2010 19:00	23668	2_60	2010	351	1900	37.39	38.6	24.45	0	13.48	183.5	1846	13.5
12/17/2010 20:00	23669	2_60	2010	351	2000	45.55	38.14	24.45	0.002	13.89	198.5	1901	13.51
12/17/2010 21:00	23670	2_60	2010	351	2100	49.65	37.95	24.47	0.001	11.06	183.5	2032	13.52
12/17/2010 22:00	23671	2_60	2010	351	2200	65.64	35	24.47	0.003	9.52	192	2101	13.53
12/17/2010 23:00	23672	2_60	2010	351	2300	76.15	33.54	24.48	0.003	3.857	135.3	2201	13.55

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
12/18/2010 0:00	23673	2_60	2010	352	0	0.6659511	255.2551	32.13802	-0.061	6.089	-0.475	3.517	-0.663	-0.642	0.02127072
12/18/2010 1:00	23674	2_60	2010	352	100	0.7437876	158.934	15.91674	-0.268	0.279	-0.271	0.099	-0.886	-0.701	0.1848502
12/18/2010 2:00	23675	2_60	2010	352	200	0.221469	78.64415	20.72542	-0.208	0.828	-0.256	0.497	-1.109	-0.967	0.1416639
12/18/2010 3:00	23676	2_60	2010	352	300	0.3988755	319.6546	39.02651	-0.27	0.201	-0.218	0.138	-1.271	-1.223	0.04875946
12/18/2010 4:00	23677	2_60	2010	352	400	0.7866632	294.7866	22.43925	-0.2	1.207	-0.264	0.114	-1.116	-1.226	-0.1095194
12/18/2010 5:00	23678	2_60	2010	352	500	0.4942487	235.1062	32.94848	-0.277	0.069	-0.261	0.1	-1.306	-1.225	0.0807394
12/18/2010 6:00	23679	2_60	2010	352	600	0.8129706	83.28645	18.43068	-0.293	0.3	-0.242	0.118	-1.251	-1.022	0.2291662
12/18/2010 7:00	23680	2_60	2010	352	700	0.2266172	324.3906	8.906183	-0.279	0.066	-0.261	0.1	-1.16	-1.303	-0.143181
12/18/2010 8:00	23681	2_60	2010	352	800	0	0	0	-0.292	0.03	-0.281	0.071	-1.08	-1.227	-0.1472469
12/18/2010 9:00	23682	2_60	2010	352	900	0.814277	307.5438	27.86893	-0.165	2.373	-0.143	1.436	-0.555	-0.756	-0.2009857
12/18/2010 10:00	23683	2_60	2010	352	1000	1.344536	306.2709	22.65172	-0.109	1.104	-0.192	0.432	-0.201	-0.393	-0.1917813
12/18/2010 11:00	23684	2_60	2010	352	1100	0.80893	308.2587	43.31668	3.387	6.581	-0.255	0.117	-0.326	-0.558	-0.2328175
12/18/2010 12:00	23685	2_60	2010	352	1200	0.7219188	30.29288	55.12623	1.848	5.734	-0.249	0.138	0.133	-0.082	-0.2151285
12/18/2010 13:00	23686	2_60	2010	352	1300	0.7703005	294.3414	48.96259	0.486	9.93	0.258	6.067	0.915	0.568	-0.347154
12/18/2010 14:00	23687	2_60	2010	352	1400	0.6518889	226.6799	53.9168	0.417	5.047	-0.226	0.74	1.805	1.333	-0.4723441
12/18/2010 15:00	23688	2_60	2010	352	1500	0.6937303	257.8646	37.03765	0.487	3.508	-0.079	2.064	2.512	2.196	-0.3161981
12/18/2010 16:00	23689	2_60	2010	352	1600	0.9650066	26.47243	51.89506	0.002	13.81	-1.855	12.59	1.728	1.971	0.242392
12/18/2010 17:00	23690	2_60	2010	352	1700	1.573115	10.02639	65.23705	3.394	39.54	0.69	38.16	1.949	2.477	0.5280805
12/18/2010 18:00	23691	2_60	2010	352	1800	1.755901	7.592299	57.37899	6.672	35.78	3.749	35.5	2.025	2.672	0.6462619
12/18/2010 19:00	23692	2_60	2010	352	1900	1.133765	341.5831	60.52804	4.261	29.13	2.794	26.95	2.563	3.524	0.9608069
12/18/2010 20:00	23693	2_60	2010	352	2000	2.003649	300.3217	45.56029	9.8	46.31	10.18	45.67	2.794	3.992	1.197446
12/18/2010 21:00	23694	2_60	2010	352	2100	1.134531	317.7171	60.71224	6.292	17.9	4.161	15.7	1.387	2.419	1.031628
12/18/2010 22:00	23695	2_60	2010	352	2200	0.7672865	285.4682	37.32884	3.853	14.86	1.814	12.49	2.314	3.548	1.233882
12/18/2010 23:00	23696	2_60	2010	352	2300	0.8880885	282.7677	56.73653	3.696	23.37	3.957	21.83	1.699	2.804	1.105406
12/19/2010 0:00	23697	2_60	2010	353	0	1.322436	141.5297	65.47974	9.63	39.05	14.02	43.4	2.268	3.862	1.594387
12/19/2010 1:00	23698	2_60	2010	353	100	3.932316	222.3223	33.49913	16.38	75.63	42.34	82.2	5.164	5.901	0.7366164
12/19/2010 2:00	23699	2_60	2010	353	200	4.307441	242.2653	36.28794	22.22	76.54	47.37	85.8	4.719	5.551	0.8317198
12/19/2010 3:00	23700	2_60	2010	353	300	3.312569	252.5108	51.73649	11.67	57.05	25.37	63.73	4.483	5.396	0.9129903
12/19/2010 4:00	23701	2_60	2010	353	400	2.118709	317.2109	68.62444	14.98	44.94	18.2	47.56	3.699	5.015	1.315995
12/19/2010 5:00	23702	2_60	2010	353	500	2.955256	252.0225	57.49586	10.36	54.75	22.47	59.5	4.412	5.543	1.130722
12/19/2010 6:00	23703	2_60	2010	353	600	3.087152	181.3514	55.78606	-1.221	68.4	12.12	77.12	4.993	5.545	0.5521708
12/19/2010 7:00	23704	2_60	2010	353	700	4.242475	167.9847	33.92379	0.739	101.8	21.1	110.5	5.943	5.97	0.02724676
12/19/2010 8:00	23705	2_60	2010	353	800	4.743069	148.156	31.88393	-12.53	92.3	4.337	102	6.092	6.14	0.04771242
12/19/2010 9:00	23706	2_60	2010	353	900	4.865981	152.4113	28.8426	-0.435	92.1	20.06	102.3	6.498	6.572	0.07407353
12/19/2010 10:00	23707	2_60	2010	353	1000	7.558408	175.8047	19.52072	16.02	111.8	60.88	128.2	7.02	7.029	0.009962794
12/19/2010 11:00	23708	2_60	2010	353	1100	8.174885	182.7351	20.36644	4.012	105.1	56.26	124.8	7.475	7.384	-0.091246
12/19/2010 12:00	23709	2_60	2010	353	1200	3.222011	206.4578	69.63259	-13.02	117.9	-0.425	123.5	7.734	7.552	-0.1814375
12/19/2010 13:00	23710	2_60	2010	353	1300	3.356827	236.5934	60.13128	14.78	116.7	26.78	121.6	7.999	7.813	-0.1860103
12/19/2010 14:00	23711	2_60	2010	353	1400	5.683606	155.9501	42.16096	1.849	137.1	27.02	151.5	8.5	8.31	-0.1885177
12/19/2010 15:00	23712	2_60	2010	353	1500	5.208848	181.355	38.36475	-0.511	125.4	25.44	134.4	8.93	8.7	-0.224864
12/19/2010 16:00	23713	2_60	2010	353	1600	3.568799	252.9596	76.48769	1.144	131.9	5.914	139.7	8.98	8.81	-0.1741033
12/19/2010 17:00	23714	2_60	2010	353	1700	4.116211	134.0883	62.71316	-20.9	141.9	-12.59	148.9	9.51	9.35	-0.1507441
12/19/2010 18:00	23715	2_60	2010	353	1800	6.640872	162.7577	38.67548	-15.64	159	12.92	173.8	9.63	9.51	-0.1161892
12/19/2010 19:00	23716	2_60	2010	353	1900	4.134812	128.9837	63.59666	4.537	129.6	16.28	140.5	9.74	9.6	-0.1398173
12/19/2010 20:00	23717	2_60	2010	353	2000	5.091318	139.5409	56.86366	12.03	155.7	31.08	168.4	9.75	9.62	-0.1305139
12/19/2010 21:00	23718	2_60	2010	353	2100	5.920071	167.8965	51.13496	-0.613	174.7	27.02	189.1	9.67	9.55	-0.1257361
12/19/2010 22:00	23719	2_60	2010	353	2200	5.630161	178.9884	57.23817	-13.01	158.3	10.47	170.6	9.41	9.27	-0.1459583
12/19/2010 23:00	23720	2_60	2010	353	2300	8.25805	164.7073	36.44814	1.914	176.2	42.79	196.7	9.35	9.26	-0.09599193
12/20/2010 0:00	23721	2_60	2010	354	0	6.986307	158.8105	39.27868	-20.75	182.7	8.22	196.4	9.46	9.31	-0.1477885
12/20/2010 1:00	23722	2_60	2010	354	100	7.443892	163.5427	35.8457	2.242	190.1	39.7	205.1	9.45	9.35	-0.09837753
12/20/2010 2:00	23723	2_60	2010	354	200	7.108359	171.672	47.95266	1.211	185.5	35.98	201.6	9.52	9.4	-0.1115007
12/20/2010 3:00	23724	2_60	2010	354	300	6.542249	175.5729	46.13318	46.78	167.7	85.7	180.4	9.32	9.23	-0.08795232
12/20/2010 4:00	23725	2_60	2010	354	400	5.458022	180.7023	52.05458	6.788	173	31.55	180.8	9.23	9.1	-0.1357075
12/20/2010 5:00	23726	2_60	2010	354	500	4.607931	193.2367	72.30663	1.179	173.5	19.87	182	8.97	8.83	-0.1386699
12/20/2010 6:00	23727	2_60	2010	354	600	6.910235	184.1599	35.93768	3.416	175.2	43.55	189.9	8.42	8.27	-0.1422973
12/20/2010 7:00	23728	2_60	2010	354	700	8.365049	174.5724	27.55458	7.468	174.5	52.99	192.4	8.45	8.32	-0.1267195
12/20/2010 8:00	23729	2_60	2010	354	800	6.70658	170.2044	36.50703	1.197	169.2	33.26	182.5	7.999	7.928	-0.07141628
12/20/2010 9:00	23730	2_60	2010	354	900	9.267319	172.2433	23.48652	20.47	169.4	72.53	186.1	8.59	8.46	-0.1348838
12/20/2010 10:00	23731	2_60	2010	354	1000	6.393906	172.5764	36.10336	14.75	152.2	48.4	166.3	9.11	8.87	-0.24462
12/20/2010 11:00	23732	2_60	2010	354	1100	7.152043	171.909	35.03709	-22.57	168	9.47	183.1	9.14	8.86	-0.2796609
12/20/2010 12:00	23733	2_60	2010	354	1200	5.676177	164.3124	47.69799	12.82	173.9	39.52	184.2	8.97	8.69	-0.2850798
12/20/2010 13:00	23734	2_60	2010	354	1300	6.891582	160.6231	32.47596	1.668	148.4	34.5	164.6	9.41	9.08	-0.3311197
12/20/2010 14:00	23735	2_60	2010	354	1400	6.536551	164.3488	44.22216	10.95	156.2	43.5	173.8	9.55	9.26	-0.2891354
12/20/2010 15:00	23736	2_60	2010	354	1500	6.155473	157.9595	48.93398	13.59	148.1	44.07	164.7	9.91	9.67	-0.2480777
12/20/2010 16:00	23737	2_60	2010	354	1600	8.04245	166.2018	30.1634	5.653	162.9	44.77	178.1	10.36	10.18	-0.1767669
12/20/2010 17:00	23738	2_60	2010	354	1700	9.830645	170.2234	19.36326	11.32	145.4	66.72	166.5	10.59	10.51	-0.07809213
12/20/2010 18:00	23739	2_60	2010	354	1800	7.317426	174.6018	37.40392	-4.569	166.4	29.12	180.5	10.63	10.54	-0.08940885
12/20/2010 19:00	23740	2_60	2010	354	1900	9.831982	172.6737	26.09914	10.1	171.7	64.97	196.4	10.6	10.53	-0.07438775
12/20/2010 20:00	23741	2_60	2010	354	2000	10.82906	173.2896	20.37577	16.74	155.5	81.4	180	10.04	9.96	-0.08277786
12/20/2010 21:00	23742	2_60	2010	354	2100	8.659143	165.5968	21.37136	15.62	121.3	64.17	138.1	9.56	9.48	-0.0810576
12/20/2010 22:00	23743	2_60	2010	354	2200	9.584794	176.1547	21.51756	18.75	152.5	78.17	173	9.43	9.35	-0.08076727
12/20/2010 23:00	23744	2_60	2010	354	2300	8.049929	184.5619	42.10076	23.44	164.6	71.71	182.2	9.44	9.34	-0.1049929

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/18/2010 0:00	23673	2_60	2010	352	0	89.5	31.29	24.47	0.004	1.399	353.3	2300	13.57
12/18/2010 1:00	23674	2_60	2010	352	100	93.5	30.78	24.46	0.004	1.741	165.4	11	13.58
12/18/2010 2:00	23675	2_60	2010	352	200	94.6	30.5	24.45	0.005	1.263	29.05	132	13.59
12/18/2010 3:00	23676	2_60	2010	352	300	95.5	30.09	24.44	0.002	1.024	308	259	13.6
12/18/2010 4:00	23677	2_60	2010	352	400	95.7	30.38	24.43	0.003	1.911	322.6	304	13.6
12/18/2010 5:00	23678	2_60	2010	352	500	95.9	30.12	24.42	0.005	1.365	243.8	419	13.6
12/18/2010 6:00	23679	2_60	2010	352	600	96.2	30.08	24.42	0.003	1.809	69.13	536	13.61
12/18/2010 7:00	23680	2_60	2010	352	700	96.1	30.33	24.42	0.004	0.922	294.2	645	13.6
12/18/2010 8:00	23681	2_60	2010	352	800	96.2	30.52	24.42	1.078	0	0	0	13.6
12/18/2010 9:00	23682	2_60	2010	352	900	96.2	31.54	24.42	10.47	2.731	41.82	812	13.6
12/18/2010 10:00	23683	2_60	2010	352	1000	95.8	32.57	24.42	20.22	2.901	348.7	931	13.59
12/18/2010 11:00	23684	2_60	2010	352	1100	95.4	32.65	24.42	34.83	2.253	246	1045	13.58
12/18/2010 12:00	23685	2_60	2010	352	1200	94.4	33.76	24.4	76.51	1.946	2.61	1124	13.57
12/18/2010 13:00	23686	2_60	2010	352	1300	91.8	35.3	24.4	142.7	2.185	250.1	1228	13.55
12/18/2010 14:00	23687	2_60	2010	352	1400	90.2	36.61	24.4	119.3	1.741	258.5	1346	13.54
12/18/2010 15:00	23688	2_60	2010	352	1500	89.9	37.43	24.4	66.81	1.707	227	1431	13.53
12/18/2010 16:00	23689	2_60	2010	352	1600	94	35.89	24.4	40.82	2.321	35.38	1529	13.53
12/18/2010 17:00	23690	2_60	2010	352	1700	92.3	35.9	24.41	9.54	4.676	158.1	1603	13.53
12/18/2010 18:00	23691	2_60	2010	352	1800	92.4	35.93	24.41	0.067	4.779	194.1	1704	13.54
12/18/2010 19:00	23692	2_60	2010	352	1900	90.6	36.72	24.41	0.005	5.598	219.6	1852	13.54
12/18/2010 20:00	23693	2_60	2010	352	2000	88.1	37.45	24.41	0.006	5.973	191.7	1927	13.53
12/18/2010 21:00	23694	2_60	2010	352	2100	93.4	34.9	24.41	0.011	3.14	292.5	2004	13.53
12/18/2010 22:00	23695	2_60	2010	352	2200	91.7	36.38	24.41	0.005	2.355	2.226	2154	13.54
12/18/2010 23:00	23696	2_60	2010	352	2300	92.7	35.45	24.42	0.006	4.198	250.7	2257	13.54
12/19/2010 0:00	23697	2_60	2010	353	0	91.9	36.16	24.39	0.005	5.257	148.3	2326	13.55
12/19/2010 1:00	23698	2_60	2010	353	100	81.6	41.55	24.39	0.001	10.75	211.6	39	13.53
12/19/2010 2:00	23699	2_60	2010	353	200	82.1	40.98	24.38	0.007	12.56	225.4	144	13.51
12/19/2010 3:00	23700	2_60	2010	353	300	82.9	40.6	24.38	0.005	8.6	216.3	242	13.5
12/19/2010 4:00	23701	2_60	2010	353	400	86.9	39.04	24.36	0.008	9.59	173.9	353	13.5
12/19/2010 5:00	23702	2_60	2010	353	500	85.2	40.51	24.35	0.004	9.22	205.4	402	13.5
12/19/2010 6:00	23703	2_60	2010	353	600	86	41.18	24.35	0.003	10.62	164	559	13.5
12/19/2010 7:00	23704	2_60	2010	353	700	81.4	43.04	24.34	0.002	10.79	186.6	648	13.49
12/19/2010 8:00	23705	2_60	2010	353	800	79.52	43.37	24.32	1.391	13.21	154.4	704	13.48
12/19/2010 9:00	23706	2_60	2010	353	900	78.36	44.05	24.33	20	15.16	162	855	13.47
12/19/2010 10:00	23707	2_60	2010	353	1000	76.35	44.96	24.34	76.47	15.97	184.8	943	13.46
12/19/2010 11:00	23708	2_60	2010	353	1100	74.73	45.73	24.34	107.8	15.77	179.3	1009	13.43
12/19/2010 12:00	23709	2_60	2010	353	1200	74.22	46.23	24.32	49.5	12.9	249.3	1143	13.41
12/19/2010 13:00	23710	2_60	2010	353	1300	73.82	46.69	24.29	55.11	10.31	215.4	1208	13.4
12/19/2010 14:00	23711	2_60	2010	353	1400	71.77	47.58	24.28	65.92	17.85	152.3	1354	13.39
12/19/2010 15:00	23712	2_60	2010	353	1500	70.84	48.37	24.27	77.53	14.98	155.9	1444	13.38
12/19/2010 16:00	23713	2_60	2010	353	1600	72.06	48.48	24.24	22.72	11.81	150.6	1512	13.38
12/19/2010 17:00	23714	2_60	2010	353	1700	69.27	49.37	24.25	7.988	10.96	225.9	1627	13.38
12/19/2010 18:00	23715	2_60	2010	353	1800	68.7	49.64	24.24	0.073	17.85	162.9	1741	13.37
12/19/2010 19:00	23716	2_60	2010	353	1900	67.79	49.8	24.24	0.002	13.79	148.9	1849	13.36
12/19/2010 20:00	23717	2_60	2010	353	2000	66.68	49.86	24.24	0.003	15.5	126.9	1935	13.36
12/19/2010 21:00	23718	2_60	2010	353	2100	64.88	49.73	24.24	0.003	21.74	185.7	2023	13.36
12/19/2010 22:00	23719	2_60	2010	353	2200	65.29	49.26	24.24	0.002	15.87	246	2131	13.37
12/19/2010 23:00	23720	2_60	2010	353	2300	63.16	49.17	24.23	0.003	21.74	167.2	2240	13.37
12/20/2010 0:00	23721	2_60	2010	354	0	60.55	49.34	24.22	0.002	20	164.1	2359	13.37
12/20/2010 1:00	23722	2_60	2010	354	100	59.42	49.34	24.22	0.003	24.71	177.7	59	13.37
12/20/2010 2:00	23723	2_60	2010	354	200	58.88	49.44	24.23	0.002	19.87	176	124	13.37
12/20/2010 3:00	23724	2_60	2010	354	300	60.32	49.09	24.22	0.002	19.56	153.2	205	13.37
12/20/2010 4:00	23725	2_60	2010	354	400	61.25	48.92	24.23	0.001	17.89	165.1	343	13.37
12/20/2010 5:00	23726	2_60	2010	354	500	63.61	48.49	24.23	0.003	16.76	245.2	402	13.37
12/20/2010 6:00	23727	2_60	2010	354	600	67.77	47.48	24.23	0.001	19.05	163.8	552	13.39
12/20/2010 7:00	23728	2_60	2010	354	700	67.45	47.55	24.24	0.003	22.12	170.1	601	13.39
12/20/2010 8:00	23729	2_60	2010	354	800	70.9	46.86	24.25	3.333	18.26	165	716	13.41
12/20/2010 9:00	23730	2_60	2010	354	900	66	47.77	24.26	39.41	23.96	159.4	804	13.41
12/20/2010 10:00	23731	2_60	2010	354	1000	62.98	48.69	24.28	88.8	15.63	153.2	925	13.39
12/20/2010 11:00	23732	2_60	2010	354	1100	63.07	48.74	24.28	87.2	20.24	157.9	1055	13.37
12/20/2010 12:00	23733	2_60	2010	354	1200	64.82	48.45	24.29	88.5	19.52	176.7	1120	13.37
12/20/2010 13:00	23734	2_60	2010	354	1300	63.04	49.22	24.28	134.7	18.5	178.7	1231	13.36
12/20/2010 14:00	23735	2_60	2010	354	1400	62.26	49.49	24.27	99.9	21.78	150.7	1340	13.36
12/20/2010 15:00	23736	2_60	2010	354	1500	59.92	50.13	24.28	72.37	19.32	154	1409	13.35
12/20/2010 16:00	23737	2_60	2010	354	1600	55.82	50.95	24.28	45.24	18.6	161	1534	13.35
12/20/2010 17:00	23738	2_60	2010	354	1700	53.61	51.38	24.28	12.55	20.72	178.9	1644	13.34
12/20/2010 18:00	23739	2_60	2010	354	1800	52.85	51.46	24.29	0.091	21.37	149.3	1738	13.34
12/20/2010 19:00	23740	2_60	2010	354	1900	52.04	51.44	24.29	0.003	22.22	168.6	1835	13.34
12/20/2010 20:00	23741	2_60	2010	354	2000	54.37	50.41	24.31	0.003	24.34	166.7	1953	13.35
12/20/2010 21:00	23742	2_60	2010	354	2100	57.45	49.53	24.32	0.003	18.91	189.1	2020	13.35
12/20/2010 22:00	23743	2_60	2010	354	2200	57.41	49.3	24.31	0.003	19.69	176.5	2116	13.36
12/20/2010 23:00	23744	2_60	2010	354	2300	54.3	49.29	24.33	0.002	19.59	166.8	2220	13.37

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID Smp	Year Smp	Day_of_Year Smp	HOUR Smp	WSpd30m_m/s m/s WVc	WDir30m_Deg Deg WVc	ST30m Deg WVc	VertWS30mEPS_Avg cm/s Avg	VertWS30mEPS_Std cm/s Std	VertWS30mCFT_Avg cm/s Avg	VertWS30mCFT_Std cm/s Std	Temp2m_Avg DegC Avg	Temp30m_Avg DegC Avg	DeltaT_Avg Avg
12/21/2010 0:00	23745	2_60	2010	355	0	9.414797	169.4464	23.438	-0.483	142.6	48.75	162	9.02	8.95	-0.06701837
12/21/2010 1:00	23746	2_60	2010	355	100	7.896742	159.1351	16.06288	18.05	96.7	60.09	111.1	8.22	8.19	-0.02942797
12/21/2010 2:00	23747	2_60	2010	355	200	9.022124	169.3838	20.05986	15.54	131.3	67.49	151.1	9.01	8.98	-0.0241967
12/21/2010 3:00	23748	2_60	2010	355	300	11.35554	176.4212	12.58013	17.93	111.7	92.4	132	8.61	8.58	-0.03498582
12/21/2010 4:00	23749	2_60	2010	355	400	12.0014	174.3703	11.61885	13.15	113	87.7	136.8	8.23	8.17	-0.06815976
12/21/2010 5:00	23750	2_60	2010	355	500	9.391772	176.0021	12.99057	18.77	106.5	79.72	122.6	6.876	6.783	-0.09289789
12/21/2010 6:00	23751	2_60	2010	355	600	6.899618	164.0777	38.76053	10.61	144.4	46.47	160.3	7.77	7.69	-0.0799504
12/21/2010 7:00	23752	2_60	2010	355	700	5.352064	135.4221	57.28143	9.19	138.4	26.31	151.4	8.52	8.39	-0.1279409
12/21/2010 8:00	23753	2_60	2010	355	800	4.392205	140.9754	60.92467	-5.824	124.9	10.05	137.1	8.86	8.75	-0.1138392
12/21/2010 9:00	23754	2_60	2010	355	900	4.127189	184.1842	56.66161	21.71	136.3	41.89	142.2	9.2	9.07	-0.1263581
12/21/2010 10:00	23755	2_60	2010	355	1000	6.747453	170.7698	29.75522	13.77	128.1	51.35	141.1	8.34	8.13	-0.2096698
12/21/2010 11:00	23756	2_60	2010	355	1100	4.796676	149.2565	46.6603	-6.941	119.4	12.76	128.8	8.2	7.912	-0.2917755
12/21/2010 12:00	23757	2_60	2010	355	1200	4.818841	181.1224	51.41998	4.265	121.7	27.8	130.9	8.38	8.01	-0.3734341
12/21/2010 13:00	23758	2_60	2010	355	1300	8.456524	174.953	17.97855	21.17	118.4	72.84	135.2	9.02	8.57	-0.4426621
12/21/2010 14:00	23759	2_60	2010	355	1400	7.299551	170.0544	30.10606	30.06	120.8	72.45	135.5	9.74	9.3	-0.4463641
12/21/2010 15:00	23760	2_60	2010	355	1500	5.308567	148.478	50.2784	-0.773	115.9	20.39	128	9.59	9.29	-0.3027199
12/21/2010 16:00	23761	2_60	2010	355	1600	6.79937	165.209	16.15473	10.99	76.2	48.79	89.3	9.54	9.35	-0.1865005
12/21/2010 17:00	23762	2_60	2010	355	1700	6.422832	165.2945	17.78247	6.127	89.7	40.21	103.3	8.8	8.77	-0.02566569
12/21/2010 18:00	23763	2_60	2010	355	1800	4.48875	148.9811	34.04311	-5.6	110.5	13.26	119.9	7.686	7.659	-0.02654065
12/21/2010 19:00	23764	2_60	2010	355	1900	3.950068	143.1893	39.21702	-7.747	91.6	5.782	100.1	6.686	6.757	0.07087807
12/21/2010 20:00	23765	2_60	2010	355	2000	3.629503	148.1381	39.98766	3.755	87.8	19.06	93.8	5.986	6.017	0.03062782
12/21/2010 21:00	23766	2_60	2010	355	2100	4.984018	167.828	17.09666	6.111	61.16	32.04	69.63	5.652	5.798	0.1457462
12/21/2010 22:00	23767	2_60	2010	355	2200	3.173372	128.8637	35.17659	23.59	35.24	30.93	41.79	5.111	5.558	0.4462552
12/21/2010 23:00	23768	2_60	2010	355	2300	1.252293	332.4264	33.74721	7.341	13.43	3.169	11.43	4.151	4.896	0.7454345
12/22/2010 0:00	23769	2_60	2010	356	0	0.9283674	22.97168	70.61404	2.307	16.94	0.26	15.53	4.31	4.633	0.3234106
12/22/2010 1:00	23770	2_60	2010	356	100	0.9318361	156.2037	54.40263	-0.468	12.68	0.478	10.19	4.099	4.657	0.5579114
12/22/2010 2:00	23771	2_60	2010	356	200	1.346985	155.4315	41.02318	-6.244	23.85	-5.603	22.59	4.271	5.037	0.7654555
12/22/2010 3:00	23772	2_60	2010	356	300	1.928153	182.8525	40.81657	4.659	17.28	5.65	17.42	4.179	5.595	1.415911
12/22/2010 4:00	23773	2_60	2010	356	400	1.375796	162.624	39.07719	1.839	16.37	-0.799	15.23	4.156	5.237	1.080988
12/22/2010 5:00	23774	2_60	2010	356	500	1.758828	127.2806	30.64802	1.286	14.67	1.131	14.2	3.669	5.253	1.583407
12/22/2010 6:00	23775	2_60	2010	356	600	1.945853	104.8506	31.35256	10.2	25.22	11.19	24	3.756	5.227	1.470622
12/22/2010 7:00	23776	2_60	2010	356	700	0.9275694	248.6625	49.71863	5.336	20.54	4.901	19.87	3.596	3.891	0.294581
12/22/2010 8:00	23777	2_60	2010	356	800	1.28847	191.4803	39.37493	5.088	11.29	3.995	11.64	3.177	4.717	1.540256
12/22/2010 9:00	23778	2_60	2010	356	900	1.444603	155.7453	47.61226	5.687	21.49	7.684	23.96	4.177	4.681	0.5046837
12/22/2010 10:00	23779	2_60	2010	356	1000	1.055829	53.19204	34.5813	5.895	11.83	4.392	11.9	4.989	5.118	0.1294033
12/22/2010 11:00	23780	2_60	2010	356	1100	1.915328	307.6607	25.38829	5.788	12.51	2.284	11.86	4.895	4.788	-0.107147
12/22/2010 12:00	23781	2_60	2010	356	1200	1.28085	280.5183	13.22699	-0.719	7.184	0.897	5.684	4.489	4.229	-0.2606839
12/22/2010 13:00	23782	2_60	2010	356	1300	1.35179	257.3377	23.84327	-0.762	11.92	1.077	8.82	5.41	4.995	-0.4155071
12/22/2010 14:00	23783	2_60	2010	356	1400	1.096246	149.6919	28.87565	-1.01	6.376	-0.523	4.516	6.136	6.232	0.09656882
12/22/2010 15:00	23784	2_60	2010	356	1500	3.398382	228.4801	31.98433	8.33	22.42	11.99	23.57	7.288	7.149	-0.1380444
12/22/2010 16:00	23785	2_60	2010	356	1600	1.465199	297.9865	22.15102	3.947	9.54	0.943	6.255	6.039	5.87	-0.1687162
12/22/2010 17:00	23786	2_60	2010	356	1700	1.646448	290.5876	48.72207	7.508	17.41	5.232	15.37	5.355	5.137	-0.2181385
12/22/2010 18:00	23787	2_60	2010	356	1800	1.232151	319.9128	51.10784	3.502	26.58	1.493	24.29	5.456	6.157	0.7008181
12/22/2010 19:00	23788	2_60	2010	356	1900	1.612084	248.0902	59.90158	-0.131	65.71	3.216	65.03	6.855	7.823	0.9678009
12/22/2010 20:00	23789	2_60	2010	356	2000	1.878839	314.003	56.61198	10.38	32.95	10.27	33.69	6.013	6.892	0.8789092
12/22/2010 21:00	23790	2_60	2010	356	2100	5.742493	143.3902	39.09053	7.172	75.32	30.3	86.7	8.36	8.71	0.3421886
12/22/2010 22:00	23791	2_60	2010	356	2200	3.208524	118.9891	42.73536	-4.004	68.07	-0.587	71.9	8.37	8.61	0.2395638
12/22/2010 23:00	23792	2_60	2010	356	2300	1.653838	121.4951	35.75689	-0.762	31.77	0.623	32.13	6.883	8.24	1.357901
12/23/2010 0:00	23793	2_60	2010	357	0	1.578581	185.3346	49.54417	5.336	28.14	9.71	30.89	6.492	8.34	1.844776
12/23/2010 1:00	23794	2_60	2010	357	100	1.801721	278.3419	48.15144	-0.65	45.17	-0.823	43.36	6.449	7.074	0.6249424
12/23/2010 2:00	23795	2_60	2010	357	200	2.694565	215.2644	44.00577	-8.03	79.93	2.544	84.4	6.548	6.498	-0.05032536
12/23/2010 3:00	23796	2_60	2010	357	300	2.150305	259.2922	41.61964	8.61	43.75	11.77	43.44	5.27	5.805	0.5350024
12/23/2010 4:00	23797	2_60	2010	357	400	1.597607	194.6782	10.92829	2.13	5.301	5.352	9.67	4.315	5.429	1.114145
12/23/2010 5:00	23798	2_60	2010	357	500	0.6585681	125.1498	37.75564	1.732	8.59	0.633	7.476	4.165	4.862	0.6969704
12/23/2010 6:00	23799	2_60	2010	357	600	0.775254	207.7432	32.27039	0.034	3.406	-0.246	0.15	4.058	5.087	1.028847
12/23/2010 7:00	23800	2_60	2010	357	700	0.6176116	191.7934	19.04306	0.458	2.456	-0.292	0.05	3.789	4.995	1.206015
12/23/2010 8:00	23801	2_60	2010	357	800	0.5264239	251.0565	28.41651	0.867	7.308	0.538	4.301	3.754	4.82	1.066816
12/23/2010 9:00	23802	2_60	2010	357	900	0.4217442	298.3252	28.85109	0.286	4.824	-0.306	1.811	3.867	4.132	0.265182
12/23/2010 10:00	23803	2_60	2010	357	1000	0.9677571	118.8959	25.39717	0.436	2.435	0.999	4.188	4.963	4.864	-0.09988113
12/23/2010 11:00	23804	2_60	2010	357	1100	0.9964395	71.90151	26.73919	1.037	4.512	-0.075	1.79	5.17	4.927	-0.2434468
12/23/2010 12:00	23805	2_60	2010	357	1200	1.690932	299.4227	22.30554	13.14	17.86	9.81	17.33	5.313	5.01	-0.3029623
12/23/2010 13:00	23806	2_60	2010	357	1300	1.902466	308.3109	13.98465	7.332	23.29	4.833	22.19	5.644	5.112	-0.5315009
12/23/2010 14:00	23807	2_60	2010	357	1400	1.125912	9.776972	23.50566	-1.529	28.53	-5.077	28.41	6.676	6.213	-0.46273
12/23/2010 15:00	23808	2_60	2010	357	1500	1.032246	349.63	18.99386	-0.321	18.88	-1.669	16.69	7.081	6.714	-0.367777
12/23/2010 16:00	23809	2_60	2010	357	1600	1.503	314.6224	18.54251	6.441	15.42	3.041	11.4	7.016	6.694	-0.3221018
12/23/2010 17:00	23810	2_60	2010	357	1700	2.847017	303.0533	8.01489	12.64	11.59	4.853	9.6	6.258	6.205	-0.05293018
12/23/2010 18:00	23811	2_60	2010	357	1800	1.822083	282.5938	13.01805	5.529	11.36	1.191	4.114	5.761	6.268	0.5072268
12/23/2010 19:00	23812	2_60	2010	357	1900	1.653526	280.0898	13.41909	4.768	10.77	0.771	6.727	5.601	6.265	0.6632807
12/23/2010 20:00	23813	2_60	2010	357	2000	1.482317	262.6561	19.11282	2.523	13.56	3.585	11.54	4.843	6.239	1.396021
12/23/2010 21:00	23814	2_60	2010	357	2100	1.301498	243.342	24.49186	3.811	11.17	4.028	9.85	3.801	5.986	2.185411
12/23/2010 22:00	23815	2_60	2010	357	2200	0.9332303	278.2144	25.75946	2.44	6.296	0.555	2.96	2.648	5.478	2.829913
12/23/2010 23:00	23816	2_60	2010	357	2300	0.8426322	257.4352	46.40435	1.615	18.32	3.105	17.28	2.182	4.982	2.799797

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/21/2010 0:00	23745	2_60	2010	355	0	54.73	48.56	24.33	0.004	19.9	162.8	2308	13.37
12/21/2010 1:00	23746	2_60	2010	355	100	56.5	47.12	24.33	0.002	16.52	166.1	46	13.38
12/21/2010 2:00	23747	2_60	2010	355	200	47.01	48.51	24.35	0.001	20.14	173.5	153	13.39
12/21/2010 3:00	23748	2_60	2010	355	300	48.45	47.83	24.36	0.003	18.94	179.5	257	13.38
12/21/2010 4:00	23749	2_60	2010	355	400	51.4	47.16	24.37	0.003	20.41	182.7	329	13.39
12/21/2010 5:00	23750	2_60	2010	355	500	63.39	44.69	24.35	0.002	17.85	153.9	411	13.4
12/21/2010 6:00	23751	2_60	2010	355	600	56.05	46.26	24.37	0.001	17.89	164.9	520	13.42
12/21/2010 7:00	23752	2_60	2010	355	700	50.89	47.62	24.38	0.001	16.04	170.7	601	13.41
12/21/2010 8:00	23753	2_60	2010	355	800	47.79	48.23	24.39	2.277	12.56	142.3	742	13.4
12/21/2010 9:00	23754	2_60	2010	355	900	45.28	48.87	24.42	21.88	15.74	155.6	854	13.39
12/21/2010 10:00	23755	2_60	2010	355	1000	52.46	47.34	24.44	65.31	16.83	178.4	922	13.39
12/21/2010 11:00	23756	2_60	2010	355	1100	55.2	47.07	24.46	94.1	16.35	135.7	1005	13.39
12/21/2010 12:00	23757	2_60	2010	355	1200	55.21	47.4	24.45	150.7	13.62	146.9	1111	13.35
12/21/2010 13:00	23758	2_60	2010	355	1300	50.93	48.47	24.44	193.4	16.15	167.9	1249	13.37
12/21/2010 14:00	23759	2_60	2010	355	1400	46.07	49.82	24.45	190.3	16.42	173.3	1305	13.36
12/21/2010 15:00	23760	2_60	2010	355	1500	47.14	49.57	24.46	99.2	13.28	163.5	1401	13.35
12/21/2010 16:00	23761	2_60	2010	355	1600	48.07	49.47	24.48	47.94	13.21	177.2	1502	13.35
12/21/2010 17:00	23762	2_60	2010	355	1700	54.82	48.23	24.51	9.99	13.31	184.7	1613	13.36
12/21/2010 18:00	23763	2_60	2010	355	1800	65.16	46.23	24.52	0.06	13.24	174.3	1748	13.4
12/21/2010 19:00	23764	2_60	2010	355	1900	72.88	44.44	24.54	0	13.18	141.4	1810	13.43
12/21/2010 20:00	23765	2_60	2010	355	2000	76.28	43.12	24.55	0	8.94	139.5	1902	13.46
12/21/2010 21:00	23766	2_60	2010	355	2100	77.14	42.58	24.55	0.001	10.58	172.6	2021	13.47
12/21/2010 22:00	23767	2_60	2010	355	2200	80.3	41.63	24.56	0.001	7.407	179.6	2106	13.48
12/21/2010 23:00	23768	2_60	2010	355	2300	87.2	39.81	24.57	0.001	2.662	316.8	2212	13.49
12/22/2010 0:00	23769	2_60	2010	356	0	88.5	40	24.59	0.002	2.56	18.34	2344	13.49
12/22/2010 1:00	23770	2_60	2010	356	100	90.3	39.72	24.58	0.003	2.287	202.4	9	13.49
12/22/2010 2:00	23771	2_60	2010	356	200	88	40.01	24.56	0.002	3.209	87.3	138	13.5
12/22/2010 3:00	23772	2_60	2010	356	300	89	39.81	24.57	0.001	3.857	155.7	218	13.5
12/22/2010 4:00	23773	2_60	2010	356	400	89.7	39.8	24.56	0.002	4.13	105.5	356	13.5
12/22/2010 5:00	23774	2_60	2010	356	500	90.1	38.97	24.55	0.003	3.686	69.1	400	13.5
12/22/2010 6:00	23775	2_60	2010	356	600	88	39.1	24.56	0.002	5.871	326.9	544	13.51
12/22/2010 7:00	23776	2_60	2010	356	700	93.5	38.65	24.56	0.003	3.072	324.4	634	13.51
12/22/2010 8:00	23777	2_60	2010	356	800	89.8	38.12	24.56	4.494	4.13	69.93	750	13.51
12/22/2010 9:00	23778	2_60	2010	356	900	87.2	39.67	24.57	47.48	3.789	111.7	805	13.52
12/22/2010 10:00	23779	2_60	2010	356	1000	85.9	41.46	24.57	44.6	2.799	143.2	903	13.49
12/22/2010 11:00	23780	2_60	2010	356	1100	89.4	41.28	24.57	47.65	3.55	318.4	1021	13.47
12/22/2010 12:00	23781	2_60	2010	356	1200	92.3	40.58	24.54	45.7	3.038	260.6	1153	13.46
12/22/2010 13:00	23782	2_60	2010	356	1300	87.6	42.15	24.51	98.1	3.072	278.7	1226	13.45
12/22/2010 14:00	23783	2_60	2010	356	1400	83	43.5	24.48	53.09	2.526	62.36	1349	13.43
12/22/2010 15:00	23784	2_60	2010	356	1500	82.2	45.54	24.48	119.7	7.612	326.9	1432	13.42
12/22/2010 16:00	23785	2_60	2010	356	1600	88	43.47	24.46	34.13	3.106	308.7	1509	13.41
12/22/2010 17:00	23786	2_60	2010	356	1700	93	42.02	24.47	8.68	3.891	305.1	1628	13.42
12/22/2010 18:00	23787	2_60	2010	356	1800	92.9	42.06	24.47	0.236	3.994	152.1	1711	13.44
12/22/2010 19:00	23788	2_60	2010	356	1900	84.9	44.4	24.45	0.002	7.373	198.8	1806	13.45
12/22/2010 20:00	23789	2_60	2010	356	2000	89.4	42.97	24.46	0.002	7.168	146.3	1953	13.45
12/22/2010 21:00	23790	2_60	2010	356	2100	70.79	47.32	24.47	0.001	12.53	182.1	2058	13.44
12/22/2010 22:00	23791	2_60	2010	356	2200	67.24	47.46	24.45	0.001	9.08	155.1	2108	13.42
12/22/2010 23:00	23792	2_60	2010	356	2300	74.71	44.86	24.45	0.002	5.393	133.7	2204	13.42
12/23/2010 0:00	23793	2_60	2010	357	0	77.99	44.01	24.44	0.001	6.178	132.6	2305	13.43
12/23/2010 1:00	23794	2_60	2010	357	100	80.5	43.75	24.44	0.002	6.11	235.6	56	13.44
12/23/2010 2:00	23795	2_60	2010	357	200	77.31	44.14	24.45	0.001	9.15	259.7	105	13.45
12/23/2010 3:00	23796	2_60	2010	357	300	82.2	41.95	24.45	0.001	5.632	238.8	215	13.46
12/23/2010 4:00	23797	2_60	2010	357	400	90.5	40.06	24.44	0.003	2.594	185.5	308	13.48
12/23/2010 5:00	23798	2_60	2010	357	500	91.3	39.9	24.43	0.004	2.662	31.98	405	13.48
12/23/2010 6:00	23799	2_60	2010	357	600	92.5	39.68	24.44	0.004	1.673	180.2	522	13.49
12/23/2010 7:00	23800	2_60	2010	357	700	93.4	39.21	24.42	0.006	2.321	57.39	655	13.49
12/23/2010 8:00	23801	2_60	2010	357	800	92.5	39.1	24.44	1.519	1.263	277.2	731	13.5
12/23/2010 9:00	23802	2_60	2010	357	900	93.8	39.22	24.45	22.38	1.946	34.11	802	13.49
12/23/2010 10:00	23803	2_60	2010	357	1000	91.5	41.23	24.47	48.05	2.185	179.6	923	13.45
12/23/2010 11:00	23804	2_60	2010	357	1100	92.8	41.77	24.48	57.59	2.423	48.13	1030	13.45
12/23/2010 12:00	23805	2_60	2010	357	1200	92.1	42.05	24.47	59.74	4.676	353.4	1155	13.45
12/23/2010 13:00	23806	2_60	2010	357	1300	91.8	42.71	24.47	167.7	4.676	1.474	1200	13.44
12/23/2010 14:00	23807	2_60	2010	357	1400	81.3	45.11	24.46	280.3	2.628	3.11	1354	13.4
12/23/2010 15:00	23808	2_60	2010	357	1500	78.84	45.62	24.48	130.2	2.594	353.1	1400	13.37
12/23/2010 16:00	23809	2_60	2010	357	1600	81.3	45.3	24.49	67.69	3.789	297.6	1551	13.37
12/23/2010 17:00	23810	2_60	2010	357	1700	89.4	43.64	24.51	18.54	4.437	307.2	1627	13.39
12/23/2010 18:00	23811	2_60	2010	357	1800	88.3	42.63	24.52	0.229	2.901	294.9	1741	13.41
12/23/2010 19:00	23812	2_60	2010	357	1900	87.9	42.35	24.55	0	2.731	300.4	1825	13.43
12/23/2010 20:00	23813	2_60	2010	357	2000	85.6	41.21	24.56	0	3.584	298.2	1947	13.45
12/23/2010 21:00	23814	2_60	2010	357	2100	85.1	39.24	24.57	0	3.106	308.1	2001	13.49
12/23/2010 22:00	23815	2_60	2010	357	2200	88.1	37.26	24.59	0	1.98	271.3	2143	13.53
12/23/2010 23:00	23816	2_60	2010	357	2300	88.8	36.37	24.61	0	2.458	237.8	2252	13.56

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
12/24/2010 0:00	23817	2_60	2010	358	0	0.839932	227.5925	25.22858	2.427	8.72	1.543	6.711	2.194	4.915	2.721125
12/24/2010 1:00	23818	2_60	2010	358	100	0.7902979	221.5842	26.94974	2.329	6.104	2.296	6.955	2.582	4.761	2.178668
12/24/2010 2:00	23819	2_60	2010	358	200	0.6499548	258.5387	27.37016	3.833	13.19	3.277	13.28	1.405	4.373	2.968117
12/24/2010 3:00	23820	2_60	2010	358	300	0.9202362	244.8584	23.34239	-0.095	8.71	0.397	3.063	0.607	3.982	3.375669
12/24/2010 4:00	23821	2_60	2010	358	400	1.122697	262.098	13.07494	1.779	6.224	1.189	4.331	-0.063	3.481	3.543979
12/24/2010 5:00	23822	2_60	2010	358	500	0.3297836	223.5481	34.34576	0.139	1.836	-0.227	0.204	0.011	3.006	2.995203
12/24/2010 6:00	23823	2_60	2010	358	600	0.8102361	271.3096	27.41254	4.4	8.13	0.993	3.561	-0.27	2.364	2.633434
12/24/2010 7:00	23824	2_60	2010	358	700	0.3659944	89.64424	7.548276	-0.327	0.961	-0.261	0.104	-0.65	1.759	2.40916
12/24/2010 8:00	23825	2_60	2010	358	800	0.6827781	346.1198	22.85361	2.463	6.569	0.313	3.788	-0.854	1.533	2.387896
12/24/2010 9:00	23826	2_60	2010	358	900	2.196908	279.5559	34.55374	8.98	17.31	8.26	15.02	-1.779	-1.334	0.4446442
12/24/2010 10:00	23827	2_60	2010	358	1000	0.5214419	347.7403	29.78836	1.835	13.23	1.981	11.5	-0.132	-0.164	-0.03159456
12/24/2010 11:00	23828	2_60	2010	358	1100	0.8243169	58.52289	47.09704	5.444	33.12	2.351	33.75	1.717	1.29	-0.4268825
12/24/2010 12:00	23829	2_60	2010	358	1200	1.076108	338.0355	38.77175	1.081	31.77	-2.716	32.22	2.761	2.19	-0.5702378
12/24/2010 13:00	23830	2_60	2010	358	1300	0.5455325	159.7268	38.20979	-3.097	35.71	0.961	35.08	4.739	3.822	-0.9169967
12/24/2010 14:00	23831	2_60	2010	358	1400	1.287448	179.1667	16.7613	3.201	31.07	7.992	34.06	5.964	5.343	-0.6204275
12/24/2010 15:00	23832	2_60	2010	358	1500	1.712292	191.894	14.44664	4.154	19.33	15.45	21.07	5.834	5.954	0.1202549
12/24/2010 16:00	23833	2_60	2010	358	1600	1.28271	191.582	6.115655	3.171	6.8	6.425	10.64	4.901	6.03	1.128937
12/24/2010 17:00	23834	2_60	2010	358	1700	1.028182	231.081	18.86646	1.776	4.42	2.692	5.648	2.544	5.601	3.056728
12/24/2010 18:00	23835	2_60	2010	358	1800	0.696035	235.7044	16.39735	1.426	4.176	1.821	5.446	1.352	5.4	4.048424
12/24/2010 19:00	23836	2_60	2010	358	1900	0.9063224	208.1651	12.92833	0.815	2.92	0.93	3.728	1.556	4.68	3.124625
12/24/2010 20:00	23837	2_60	2010	358	2000	1.010315	211.1863	12.30573	1.231	3.242	1.664	4.51	1.113	4.391	3.27807
12/24/2010 21:00	23838	2_60	2010	358	2100	0.9326058	176.1641	16.0571	1.119	5.293	1.221	4.14	1.244	4.249	3.004919
12/24/2010 22:00	23839	2_60	2010	358	2200	1.484628	166.8897	19.74871	3.116	13.95	7.645	14.47	1.331	3.595	2.26362
12/24/2010 23:00	23840	2_60	2010	358	2300	2.614999	133.1617	19.83725	6.036	12.55	11.15	15.03	0.489	3.638	3.14888
12/25/2010 0:00	23841	2_60	2010	359	0	1.920621	284.0893	10.85084	3.828	12.13	4.498	9.67	0.041	1.248	1.207526
12/25/2010 1:00	23842	2_60	2010	359	100	0.883732	264.2768	28.94279	0.823	7.046	0.774	4.425	-0.836	1.041	1.876209
12/25/2010 2:00	23843	2_60	2010	359	200	0.3635189	256.3055	11.55133	-0.65	2.43	-0.124	1.13	-0.829	0.98	1.808649
12/25/2010 3:00	23844	2_60	2010	359	300	0.465688	158.1902	18.63666	0.219	2.823	-0.24	0.321	-1.15	0.994	2.144127
12/25/2010 4:00	23845	2_60	2010	359	400	0.5260511	282.5562	31.85983	1.648	6.499	0.485	4.463	-1.288	0.436	1.723963
12/25/2010 5:00	23846	2_60	2010	359	500	1.77848	279.7445	9.71829	-2.725	14.22	4.377	11.78	-2.096	-1.209	0.8868594
12/25/2010 6:00	23847	2_60	2010	359	600	0.6340208	253.3546	22.39853	-0.084	4.427	0.356	3.796	-3.123	-1.307	1.815378
12/25/2010 7:00	23848	2_60	2010	359	700	0.5208178	114.5027	9.177308	-0.18	0.996	-0.253	0.298	-2.856	-1.117	1.739795
12/25/2010 8:00	23849	2_60	2010	359	800	0.1605676	120.8595	17.52424	-0.244	0.137	-0.21	0.137	-2.537	-1.035	1.501795
12/25/2010 9:00	23850	2_60	2010	359	900	0.009358217	285.1239	1.826218	0.614	4.43	0.287	3.187	-1.125	-0.849	0.2766154
12/25/2010 10:00	23851	2_60	2010	359	1000	0.8625474	305.7428	12.34044	5.015	14.99	3.581	13.51	-0.165	-0.533	-0.3683653
12/25/2010 11:00	23852	2_60	2010	359	1100	0.8880365	311.5914	14.04092	6.259	14.53	4.199	13.5	-0.195	-0.472	-0.2761879
12/25/2010 12:00	23853	2_60	2010	359	1200	1.026586	311.1859	23.41426	8.45	26.97	6.829	25.58	1.03	0.519	-0.5114634
12/25/2010 13:00	23854	2_60	2010	359	1300	1.201544	303.5027	20.15271	5.353	32.59	3.995	31.67	1.941	1.398	-0.5427403
12/25/2010 14:00	23855	2_60	2010	359	1400	1.088196	298.4068	26.80669	5.159	35.15	4.286	33.59	3.616	3.022	-0.5937888
12/25/2010 15:00	23856	2_60	2010	359	1500	1.486818	269.078	26.60173	12.27	41.04	16.53	42.92	5.024	4.367	-0.6573491
12/25/2010 16:00	23857	2_60	2010	359	1600	1.65744	222.3898	5.720329	1.728	8.25	6.305	12.18	3.567	4.273	0.7064286
12/25/2010 17:00	23858	2_60	2010	359	1700	1.406144	217.1254	5.937579	1.227	2.974	5.732	7.553	1.34	4.434	3.093654
12/25/2010 18:00	23859	2_60	2010	359	1800	1.330685	188.1716	6.410261	1.64	4.69	3.14	6.928	1.199	4.163	2.964164
12/25/2010 19:00	23860	2_60	2010	359	1900	0.9546719	208.1648	19.79184	1.406	5.309	2.314	5.973	1.408	3.827	2.41955
12/25/2010 20:00	23861	2_60	2010	359	2000	0.4770408	244.4462	25.56089	1.616	5.949	0.569	4.89	0.96	3.345	2.384634
12/25/2010 21:00	23862	2_60	2010	359	2100	0.5987838	227.5785	27.35972	1.024	4.282	0.014	1.952	0.037	2.632	2.594854
12/25/2010 22:00	23863	2_60	2010	359	2200	0.5160324	268.7678	21.64781	0.298	2.568	-0.223	0.436	-0.832	2.309	3.141183
12/25/2010 23:00	23864	2_60	2010	359	2300	1.077049	277.0843	5.824317	-2.613	6.476	0.277	2.223	-0.207	1.392	1.599122
12/26/2010 0:00	23865	2_60	2010	360	0	0.3338811	258.5537	22.30713	0.995	4.637	0.854	4.159	-1.577	1.209	2.786036
12/26/2010 1:00	23866	2_60	2010	360	100	0.06132618	276.3765	1.931923	-0.268	0.163	-0.238	0.138	-1.201	0.742	1.942518
12/26/2010 2:00	23867	2_60	2010	360	200	0.3782555	205.4109	22.67344	-0.197	0.761	-0.25	0.151	-1.858	0.447	2.305633
12/26/2010 3:00	23868	2_60	2010	360	300	0.3540764	157.552	17.11467	1.31	5.379	0.68	4.101	-2.141	0.449	2.589861
12/26/2010 4:00	23869	2_60	2010	360	400	2.366742	295.603	16.7444	11.36	19.41	10.22	14.96	-3.083	-1.608	1.474734
12/26/2010 5:00	23870	2_60	2010	360	500	0.949164	267.4196	20.2757	-0.029	5.111	0.307	4.11	-3.383	-2.245	1.137299
12/26/2010 6:00	23871	2_60	2010	360	600	0.3849366	138.1677	20.64629	-0.023	3.782	-0.121	3.485	-3.879	-1.85	2.029821
12/26/2010 7:00	23872	2_60	2010	360	700	0.8167244	89.68487	15.48304	-0.108	1.421	-0.2	0.655	-3.31	-1.383	1.926814
12/26/2010 8:00	23873	2_60	2010	360	800	1.108414	257.2987	30.55436	3.265	6.533	2.226	5.942	-3.624	-1.662	1.962236
12/26/2010 9:00	23874	2_60	2010	360	900	1.323457	241.3507	55.7727	2.153	8.7	2.162	8.25	-3.674	-2.76	0.9139859
12/26/2010 10:00	23875	2_60	2010	360	1000	1.217021	277.2429	33.18142	6.313	16.63	6.553	17.04	-2.887	-3.408	-0.5202284
12/26/2010 11:00	23876	2_60	2010	360	1100	1.085465	23.67223	29.5218	9.96	32.17	7.978	32.94	-0.328	-0.866	-0.5382223
12/26/2010 12:00	23877	2_60	2010	360	1200	1.725683	280.5055	33.24109	6.254	15.73	5.659	14.88	-0.76	-1.148	-0.3875985
12/26/2010 13:00	23878	2_60	2010	360	1300	1.355857	257.3287	32.63932	4.1	12.96	3.598	11.56	-0.311	-0.727	-0.416025
12/26/2010 14:00	23879	2_60	2010	360	1400	1.723835	279.0688	34.96366	2.079	12.17	2.712	12.4	-0.329	-0.667	-0.3374714
12/26/2010 15:00	23880	2_60	2010	360	1500	1.430296	348.9139	55.25246	8.76	31.25	6.703	34.61	0.548	0.35	-0.1975995
12/26/2010 16:00	23881	2_60	2010	360	1600	1.508373	284.1324	58.1066	-2.744	32.99	-2.941	33.98	1.404	1.525	0.1214803
12/26/2010 17:00	23882	2_60	2010	360	1700	1.488439	100.7729	27.74538	5.227	14.18	2.823	14.97	1.134	1.52	0.3859238
12/26/2010 18:00	23883	2_60	2010	360	1800	0.847928	153.647	56.01735	1.862	10.74	1.898	9.76	1.204	2.218	1.014678
12/26/2010 19:00	23884	2_60	2010	360	1900	0.9565293	198.5016	50.65801	1.215	13.52	3.117	13.07	1.392	2.934	1.542365
12/26/2010 20:00	23885	2_60	2010	360	2000	1.470824	340.494	45.47687	8.3	26.1	7.903	25.6	1.188	2.86	1.67252
12/26/2010 21:00	23886	2_60	2010	360	2100	0.7367402	291.5527	54.13944	3.14	11.5	3.312	10.28	0.47	1.86	1.390104
12/26/2010 22:00	23887	2_60	2010	360	2200	1.027295	95.54423	20.88246	0.173	3.978	-0.377	1.605	0.421	1.81	1.388849
12/26/2010 23:00	23888	2_60	2010	360	2300	0.9320984	168.9313	51.86637	1.674	9.06	1.543	7.905	1.21	2.421	1.211441

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/24/2010 0:00	23817	2_60	2010	358	0	89.5	36.27	24.63	0	2.014	208.6	2339	13.58
12/24/2010 1:00	23818	2_60	2010	358	100	86.1	37.21	24.64	0	2.321	238.3	41	13.58
12/24/2010 2:00	23819	2_60	2010	358	200	87.4	35.1	24.65	0	1.98	247.2	133	13.59
12/24/2010 3:00	23820	2_60	2010	358	300	88.1	33.58	24.66	0	1.604	274.7	254	13.61
12/24/2010 4:00	23821	2_60	2010	358	400	89	32.32	24.67	0	2.116	270.6	320	13.63
12/24/2010 5:00	23822	2_60	2010	358	500	89.3	32.27	24.67	0	1.024	204.9	427	13.65
12/24/2010 6:00	23823	2_60	2010	358	600	89.4	31.9	24.69	0	2.355	293.8	520	13.66
12/24/2010 7:00	23824	2_60	2010	358	700	90.5	31.4	24.7	0	1.707	100.9	653	13.67
12/24/2010 8:00	23825	2_60	2010	358	800	91	30.82	24.71	5.31	3.482	311.9	759	13.67
12/24/2010 9:00	23826	2_60	2010	358	900	94.2	29.75	24.74	80.7	4.574	298.9	810	13.68
12/24/2010 10:00	23827	2_60	2010	358	1000	93.4	34.03	24.76	233.1	1.365	99	958	13.64
12/24/2010 11:00	23828	2_60	2010	358	1100	86.8	37.5	24.76	325.6	2.355	40.04	1059	13.57
12/24/2010 12:00	23829	2_60	2010	358	1200	81.5	39.62	24.74	409.4	2.867	15.08	1130	13.49
12/24/2010 13:00	23830	2_60	2010	358	1300	70.49	42.98	24.72	423	1.843	124.1	1259	13.42
12/24/2010 14:00	23831	2_60	2010	358	1400	66.44	44.25	24.71	319.3	2.697	196.1	1351	13.35
12/24/2010 15:00	23832	2_60	2010	358	1500	66.56	43.43	24.71	190.9	2.662	209	1430	13.35
12/24/2010 16:00	23833	2_60	2010	358	1600	68.33	41.8	24.71	131.6	2.082	189.5	1515	13.36
12/24/2010 17:00	23834	2_60	2010	358	1700	79.99	36.69	24.71	13.12	1.877	223	1654	13.43
12/24/2010 18:00	23835	2_60	2010	358	1800	83	34.72	24.72	0.5	1.707	208.3	1732	13.51
12/24/2010 19:00	23836	2_60	2010	358	1900	82.4	34.99	24.72	0	1.604	206.3	1811	13.57
12/24/2010 20:00	23837	2_60	2010	358	2000	83.9	34.24	24.74	0	1.809	185.7	1936	13.6
12/24/2010 21:00	23838	2_60	2010	358	2100	84.5	34.58	24.74	0	1.809	173.7	2021	13.62
12/24/2010 22:00	23839	2_60	2010	358	2200	82	34.92	24.75	0	3.618	131.3	2158	13.62
12/24/2010 23:00	23840	2_60	2010	358	2300	84	33.43	24.76	0	3.959	137.3	2205	13.63
12/25/2010 0:00	23841	2_60	2010	359	0	86.8	32.43	24.76	0	3.55	295.9	2300	13.64
12/25/2010 1:00	23842	2_60	2010	359	100	89.1	30.93	24.77	0	1.775	272.9	0	13.66
12/25/2010 2:00	23843	2_60	2010	359	200	89.8	31.02	24.77	0	1.126	274.7	100	13.67
12/25/2010 3:00	23844	2_60	2010	359	300	91.1	30.24	24.77	0	1.297	97.6	228	13.68
12/25/2010 4:00	23845	2_60	2010	359	400	91.3	30.21	24.76	0	2.116	294.3	359	13.69
12/25/2010 5:00	23846	2_60	2010	359	500	93.5	28.64	24.75	0	2.731	272	452	13.7
12/25/2010 6:00	23847	2_60	2010	359	600	94.6	26.85	24.76	0	2.082	268.6	504	13.71
12/25/2010 7:00	23848	2_60	2010	359	700	94.7	27.35	24.76	0	1.57	98.8	653	13.73
12/25/2010 8:00	23849	2_60	2010	359	800	94.1	27.8	24.77	10.02	0.819	103.2	702	13.73
12/25/2010 9:00	23850	2_60	2010	359	900	89.5	31.7	24.78	169.4	0.375	305.1	853	13.72
12/25/2010 10:00	23851	2_60	2010	359	1000	87.3	33.69	24.8	202.8	1.741	309.9	927	13.65
12/25/2010 11:00	23852	2_60	2010	359	1100	89.5	33.1	24.79	248.5	1.673	316.3	1046	13.6
12/25/2010 12:00	23853	2_60	2010	359	1200	84.6	35.15	24.77	311.7	2.389	314.4	1153	13.55
12/25/2010 13:00	23854	2_60	2010	359	1300	80.7	36.85	24.74	303	2.526	301.2	1206	13.5
12/25/2010 14:00	23855	2_60	2010	359	1400	71.93	40.63	24.72	396.2	2.526	326.9	1351	13.45
12/25/2010 15:00	23856	2_60	2010	359	1500	65.82	42.95	24.71	353.8	3.277	244.4	1435	13.38
12/25/2010 16:00	23857	2_60	2010	359	1600	71.59	39.42	24.7	165.2	2.765	222.7	1500	13.36
12/25/2010 17:00	23858	2_60	2010	359	1700	82.1	34.73	24.7	13.02	1.911	213.1	1652	13.44
12/25/2010 18:00	23859	2_60	2010	359	1800	82.8	34.43	24.7	0.452	2.389	174.1	1745	13.53
12/25/2010 19:00	23860	2_60	2010	359	1900	81.6	34.77	24.7	0	1.809	186.4	1821	13.58
12/25/2010 20:00	23861	2_60	2010	359	2000	82.5	34.32	24.69	0	1.536	197.5	1940	13.61
12/25/2010 21:00	23862	2_60	2010	359	2100	85.2	32.72	24.69	0	1.229	238	2050	13.64
12/25/2010 22:00	23863	2_60	2010	359	2200	88.9	30.86	24.68	0	1.195	261.1	2103	13.66
12/25/2010 23:00	23864	2_60	2010	359	2300	87.5	31.95	24.68	0	1.638	274.4	2232	13.67
12/26/2010 0:00	23865	2_60	2010	360	0	91	29.68	24.66	0	1.638	242.5	2301	13.68
12/26/2010 1:00	23866	2_60	2010	360	100	91.1	30.36	24.64	0	0.717	269.1	41	13.69
12/26/2010 2:00	23867	2_60	2010	360	200	91.7	29.29	24.63	0	1.434	136.1	159	13.7
12/26/2010 3:00	23868	2_60	2010	360	300	92.1	28.66	24.61	0	1.877	324.5	257	13.71
12/26/2010 4:00	23869	2_60	2010	360	400	94.1	26.91	24.58	0	4.71	300	342	13.71
12/26/2010 5:00	23870	2_60	2010	360	500	93.5	26.2	24.59	0	1.98	323.4	400	13.73
12/26/2010 6:00	23871	2_60	2010	360	600	93.2	25.59	24.59	0	1.195	143.4	526	13.74
12/26/2010 7:00	23872	2_60	2010	360	700	93.5	26.68	24.58	0	1.843	75.37	643	13.75
12/26/2010 8:00	23873	2_60	2010	360	800	93.4	26.01	24.58	7.672	2.833	302.3	739	13.74
12/26/2010 9:00	23874	2_60	2010	360	900	92.6	26.35	24.58	115.9	3.379	321.3	858	13.73
12/26/2010 10:00	23875	2_60	2010	360	1000	93.5	27.96	24.58	247	3.311	318.3	900	13.7
12/26/2010 11:00	23876	2_60	2010	360	1100	81.9	34.28	24.56	397.7	4.198	310.8	1055	13.64
12/26/2010 12:00	23877	2_60	2010	360	1200	89.7	31.71	24.53	134.6	3.721	304.2	1128	13.58
12/26/2010 13:00	23878	2_60	2010	360	1300	92.2	32.02	24.52	104.9	6.724	322.2	1245	13.58
12/26/2010 14:00	23879	2_60	2010	360	1400	92.5	31.79	24.51	82.2	3.721	14.6	1320	13.57
12/26/2010 15:00	23880	2_60	2010	360	1500	89.5	33.36	24.51	65.63	4.369	314.7	1430	13.57
12/26/2010 16:00	23881	2_60	2010	360	1600	86.8	34.82	24.53	59.21	5.12	242.5	1555	13.56
12/26/2010 17:00	23882	2_60	2010	360	1700	89.6	34.5	24.53	16.26	4.164	347.5	1600	13.56
12/26/2010 18:00	23883	2_60	2010	360	1800	89.9	34.47	24.54	0.282	2.423	189.1	1722	13.57
12/26/2010 19:00	23884	2_60	2010	360	1900	87	34.87	24.55	0.001	2.628	169.6	1830	13.57
12/26/2010 20:00	23885	2_60	2010	360	2000	87.2	34.51	24.56	0.001	4.54	213.3	1938	13.57
12/26/2010 21:00	23886	2_60	2010	360	2100	87	33.33	24.57	0	3.004	237.3	2002	13.6
12/26/2010 22:00	23887	2_60	2010	360	2200	90.7	32.96	24.58	0.001	1.775	76.41	2122	13.61
12/26/2010 23:00	23888	2_60	2010	360	2300	86.1	34.55	24.59	0.001	1.98	160.8	2208	13.59

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
12/27/2010 0:00	23889	2_60	2010	361	0	1.424978	295.4813	17.77794	5.729	10.26	2.782	7.229	-0.147	1.158	1.305494
12/27/2010 1:00	23890	2_60	2010	361	100	0.588064	208.4654	37.05407	-0.159	1.046	-0.094	0.868	-1.132	1.117	2.248644
12/27/2010 2:00	23891	2_60	2010	361	200	1.029686	285.0403	18.09475	2.735	6.023	0.526	3.688	-1.452	0.558	2.009652
12/27/2010 3:00	23892	2_60	2010	361	300	0.1532302	322.4083	8.931888	-0.29	0.293	-0.256	0.12	-0.27	0.125	0.3949326
12/27/2010 4:00	23893	2_60	2010	361	400	0.3438928	232.8247	13.44559	-0.267	1.33	-0.28	0.073	-1.369	0.016	1.384059
12/27/2010 5:00	23894	2_60	2010	361	500	0.2001064	277.8196	13.1768	-0.485	3.104	-0.322	0.839	-1.707	-0.157	1.55086
12/27/2010 6:00	23895	2_60	2010	361	600	0.2163481	68.5948	12.50953	-0.154	1.104	-0.229	0.127	-2.597	-0.882	1.714748
12/27/2010 7:00	23896	2_60	2010	361	700	0.7111902	168.2971	52.81064	-0.189	8.17	-0.277	0.078	-1.724	-0.69	1.033693
12/27/2010 8:00	23897	2_60	2010	361	800	0.8475019	247.1431	44.72561	2.69	15.63	-0.266	0.094	-1.63	-0.249	1.380942
12/27/2010 9:00	23898	2_60	2010	361	900	1.631425	353.731	26.2823	2.809	11.37	-0.233	0.124	-1.663	-0.085	1.577772
12/27/2010 10:00	23899	2_60	2010	361	1000	1.805222	84.13913	16.13248	5.717	21.29	3.435	24.59	0.82	0.588	-0.2318565
12/27/2010 11:00	23900	2_60	2010	361	1100	0.9935062	243.5958	30.99999	0.08	36.11	2.871	36.07	1.273	1.493	0.2199411
12/27/2010 12:00	23901	2_60	2010	361	1200	2.40653	286.7375	18.62161	9.33	39.1	13.81	39.53	2.983	2.251	-0.7319544
12/27/2010 13:00	23902	2_60	2010	361	1300	1.65603	292.433	31.29734	5.79	42.69	7.149	43.59	3.66	3.039	-0.6211483
12/27/2010 14:00	23903	2_60	2010	361	1400	2.893188	292.0807	22.72937	8.21	45.5	9.01	49.14	4.779	3.934	-0.8452631
12/27/2010 15:00	23904	2_60	2010	361	1500	3.70553	272.0092	11.89654	3.78	36.35	16.14	40.16	5.064	4.165	-0.8982607
12/27/2010 16:00	23905	2_60	2010	361	1600	4.009831	245.4328	9.525162	14.13	27.15	38.72	33.74	4.144	3.749	-0.3947293
12/27/2010 17:00	23906	2_60	2010	361	1700	5.316927	240.0837	4.934932	15.96	24.26	53.63	29.55	3.179	3.305	0.125535
12/27/2010 18:00	23907	2_60	2010	361	1800	2.601142	204.8127	19.96714	16.2	25.77	33.27	36.33	1.497	2.603	1.105901
12/27/2010 19:00	23908	2_60	2010	361	1900	1.283721	215.8466	24.70902	8.24	13.92	12.35	17.14	-0.455	2.118	2.573358
12/27/2010 20:00	23909	2_60	2010	361	2000	0.9796804	246.4141	15.75419	2.14	7.572	2.612	6.615	-1.452	2.098	3.549653
12/27/2010 21:00	23910	2_60	2010	361	2100	1.473753	273.4259	9.309322	-1.946	8.88	5.081	6.809	-1.611	1.836	3.447133
12/27/2010 22:00	23911	2_60	2010	361	2200	1.111973	246.911	14.92869	2.13	7.125	3.562	7.386	-0.742	1.609	2.350561
12/27/2010 23:00	23912	2_60	2010	361	2300	0.5431734	242.3842	12.81173	2.538	5.429	2.002	5.618	-1.686	1.31	2.995294
12/28/2010 0:00	23913	2_60	2010	362	0	0.4943083	255.8344	17.96993	1.086	4.096	0.405	3.19	-2.232	0.988	3.219279
12/28/2010 1:00	23914	2_60	2010	362	100	1.381676	272.7643	10.32778	0.119	8.96	6.085	7.548	-2.527	0.431	2.957536
12/28/2010 2:00	23915	2_60	2010	362	200	0.7470579	262.0841	24.91088	2.259	6.364	1.817	6.783	-2.427	-0.621	1.8066
12/28/2010 3:00	23916	2_60	2010	362	300	0.7383019	282.8622	37.57951	1.863	7.571	0.315	4.785	-3.095	-1.527	1.567637
12/28/2010 4:00	23917	2_60	2010	362	400	0.6360145	92.49557	27.08076	0.504	3.234	0.021	1.681	-4.12	-1.792	2.328202
12/28/2010 5:00	23918	2_60	2010	362	500	0.6470516	160.4927	23.77308	0.208	4.126	0.865	4.332	-4.52	-1.828	2.692154
12/28/2010 6:00	23919	2_60	2010	362	600	0.9581764	302.8632	18.70981	4.169	7.987	0.885	4.727	-4.31	-2.773	1.537215
12/28/2010 7:00	23920	2_60	2010	362	700	0.5149888	300.3243	51.22218	0.458	2.861	-0.229	0.886	-4.67	-3.305	1.364394
12/28/2010 8:00	23921	2_60	2010	362	800	2.081412	287.5366	28.71546	10.43	12.97	8.39	10.91	-5.983	-4.701	1.282827
12/28/2010 9:00	23922	2_60	2010	362	900	0.9225054	122.2671	22.73631	0.046	3.886	-0.236	2.901	-4.395	-4.172	0.223323
12/28/2010 10:00	23923	2_60	2010	362	1000	0.9246702	88.64077	30.16371	2.131	22.57	1.088	21.98	-1.93	-2.513	-0.5828362
12/28/2010 11:00	23924	2_60	2010	362	1100	0.7279194	87.14775	55.85063	12	37.05	13.13	38.5	-0.196	-0.82	-0.6240101
12/28/2010 12:00	23925	2_60	2010	362	1200	0.7600614	148.8781	55.35424	-0.819	39.14	-0.042	38.94	1.036	0.318	-0.718684
12/28/2010 13:00	23926	2_60	2010	362	1300	1.91934	321.7753	27.86165	11.88	47.97	7.427	49.47	2.121	1.404	-0.717131
12/28/2010 14:00	23927	2_60	2010	362	1400	1.248281	315.2509	48.66509	3.924	41.44	2.235	42.76	2.747	2.145	-0.6014652
12/28/2010 15:00	23928	2_60	2010	362	1500	1.942693	266.7292	30.03055	5.062	33.99	10.35	38.68	3.247	2.599	-0.6481707
12/28/2010 16:00	23929	2_60	2010	362	1600	1.839775	203.4239	8.268915	2.193	13.95	11.86	16.34	2.853	2.611	-0.242626
12/28/2010 17:00	23930	2_60	2010	362	1700	1.743082	199.5956	5.204096	3.288	5.03	13.56	10.63	1.176	2.913	1.737075
12/28/2010 18:00	23931	2_60	2010	362	1800	2.122749	163.4227	11.47687	6.43	8.94	14.72	12.54	-0.222	2.453	2.675869
12/28/2010 19:00	23932	2_60	2010	362	1900	2.161237	129.8091	34.50286	6.826	19.24	14.75	23.1	0.275	2.314	2.038745
12/28/2010 20:00	23933	2_60	2010	362	2000	1.213948	200.2539	49.01025	2.036	26.19	7.435	29.8	0.455	1.437	0.9820821
12/28/2010 21:00	23934	2_60	2010	362	2100	1.697474	222.6524	28.16026	7.679	17.08	16.17	20.86	-0.537	1.121	1.657649
12/28/2010 22:00	23935	2_60	2010	362	2200	0.5424062	173.8214	22.8287	-0.903	8.39	-0.29	6.24	-1.137	0.69	1.827104
12/28/2010 23:00	23936	2_60	2010	362	2300	0.6582329	155.4412	53.9284	1.622	10.67	2.196	10.55	-2.436	0.203	2.638457
12/29/2010 0:00	23937	2_60	2010	363	0	0.9241576	152.9757	40.81581	2.486	14.31	1.794	14.69	-2.139	-0.273	1.866191
12/29/2010 1:00	23938	2_60	2010	363	100	3.225447	137.2616	16.7989	2.196	25.58	14.02	32.67	-1.532	-0.53	1.002224
12/29/2010 2:00	23939	2_60	2010	363	200	0.7736274	233.6106	45.20663	1.473	6.909	1.234	4.879	-2.497	-0.756	1.740918
12/29/2010 3:00	23940	2_60	2010	363	300	1.914734	281.8814	18.84685	2.042	11.86	4.482	9.31	-3.216	-2.851	0.3647841
12/29/2010 4:00	23941	2_60	2010	363	400	0.9122689	274.3398	38.94111	2.323	9.36	2.484	10.31	-2.475	-2.088	0.3870487
12/29/2010 5:00	23942	2_60	2010	363	500	1.26125	292.4604	57.869	4.809	21.5	3.006	24	-2.769	-2.761	0.007817738
12/29/2010 6:00	23943	2_60	2010	363	600	0.8340734	198.7724	17.31771	1.173	5.796	2.344	7.993	-2.831	-2.679	0.1511667
12/29/2010 7:00	23944	2_60	2010	363	700	0.3163009	271.609	35.82697	-0.922	3.279	-0.315	0.635	-2.046	-2.091	-0.04485063
12/29/2010 8:00	23945	2_60	2010	363	800	0.4110786	252.474	25.22897	-0.027	2.779	-0.319	0.954	-1.814	-1.844	-0.02964086
12/29/2010 9:00	23946	2_60	2010	363	900	0.6193473	8.742465	28.79034	-0.745	4.139	-0.667	3.875	-1.323	-1.435	-0.1121244
12/29/2010 10:00	23947	2_60	2010	363	1000	2.335678	71.87257	31.53713	0.803	9.3	-2.706	7.771	-0.644	-0.77	-0.1267221
12/29/2010 11:00	23948	2_60	2010	363	1100	3.797297	89.8089	37.08184	0.346	49.27	-1.722	47.88	0.338	0.31	-0.02792615
12/29/2010 12:00	23949	2_60	2010	363	1200	4.043508	137.9603	31.32969	5.076	87.6	15.63	98.3	1.047	0.917	-0.1300082
12/29/2010 13:00	23950	2_60	2010	363	1300	5.24015	151.2033	24.11684	-2.034	83.8	17.99	96.7	1.113	1.055	-0.05804345
12/29/2010 14:00	23951	2_60	2010	363	1400	3.409458	138.8529	36.08358	5.165	70.67	17.94	76.67	1.409	1.289	-0.1203653
12/29/2010 15:00	23952	2_60	2010	363	1500	4.157261	89.68594	19.15296	-2.458	39.8	-3.756	46.78	0.358	0.521	0.1632012
12/29/2010 16:00	23953	2_60	2010	363	1600	5.653204	93.87167	12.32288	-3.742	35.16	-3.823	46.51	0.375	0.569	0.1941409
12/29/2010 17:00	23954	2_60	2010	363	1700	6.026709	100.3311	22.71298	-9.56	63.58	-6.474	75.6	0.823	1.074	0.2514015
12/29/2010 18:00	23955	2_60	2010	363	1800	6.046108	146.1665	22.75037	-2.482	88.5	22.2	102	2.093	2.114	0.02134942
12/29/2010 19:00	23956	2_60	2010	363	1900	8.194345	166.1178	15.20938	-0.009	99.4	42.3	117.8	2.161	2.181	0.01995217
12/29/2010 20:00	23957	2_60	2010	363	2000	9.465705	170.0924	10.75083	3.239	90.8	56.03	111.7	1.81	1.827	0.01667425
12/29/2010 21:00	23958	2_60	2010	363	2100	9.504653	176.9398	15.17191	9.9	114.4	67.49	135.3	2.338	2.394	0.05623661
12/29/2010 22:00	23959	2_60	2010	363	2200	8.767449	179.9437	19.70378	10.49	135.8	62.99	155.9	2.144	2.067	-0.07731833
12/29/2010 23:00	23960	2_60	2010	363	2300	10.24155	186.2413	13.85985	27.83	108.9	101.4	126.3	2.075	2.055	-0.02032156

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP TS	RECORD RN	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg DegF	BPinHg inHg	SolarRad_Avg W/m²	GustSpeed m/s	GustDir Deg	GustTime	BatteryV_Avg Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/27/2010 0:00	23889	2_60	2010	361	0	90.2	32.24	24.59	0	2.901	298.9	2333	13.59
12/27/2010 1:00	23890	2_60	2010	361	100	91	30.41	24.58	0	1.502	195.4	6	13.63
12/27/2010 2:00	23891	2_60	2010	361	200	92.2	29.79	24.6	0	2.458	293.9	111	13.66
12/27/2010 3:00	23892	2_60	2010	361	300	93.1	31.9	24.61	0	1.058	4.277	201	13.65
12/27/2010 4:00	23893	2_60	2010	361	400	94.6	30.06	24.6	0	1.263	292.8	322	13.66
12/27/2010 5:00	23894	2_60	2010	361	500	94.3	29.4	24.61	0	0.99	272.9	440	13.67
12/27/2010 6:00	23895	2_60	2010	361	600	95.5	27.85	24.61	0	1.092	102.6	548	13.68
12/27/2010 7:00	23896	2_60	2010	361	700	96.7	29.1	24.61	0	1.946	85.2	605	13.68
12/27/2010 8:00	23897	2_60	2010	361	800	96.2	29.31	24.61	6.38	3.584	340.6	712	13.66
12/27/2010 9:00	23898	2_60	2010	361	900	92.6	29.73	24.63	58.83	2.662	78.7	850	13.66
12/27/2010 10:00	23899	2_60	2010	361	1000	82.3	34.85	24.63	318.6	3.004	130.9	947	13.64
12/27/2010 11:00	23900	2_60	2010	361	1100	65.33	38.16	24.63	427.7	3.209	281.3	1059	13.58
12/27/2010 12:00	23901	2_60	2010	361	1200	55.77	39.13	24.61	477.1	4.813	283	1128	13.5
12/27/2010 13:00	23902	2_60	2010	361	1300	49.49	40.26	24.59	423.1	3.959	292.1	1203	13.45
12/27/2010 14:00	23903	2_60	2010	361	1400	44.1	42.24	24.57	467.3	5.564	307.4	1353	13.4
12/27/2010 15:00	23904	2_60	2010	361	1500	46.28	42.34	24.57	364.9	6.076	290.9	1408	13.37
12/27/2010 16:00	23905	2_60	2010	361	1600	51	40.09	24.57	136	6.69	239.2	1555	13.38
12/27/2010 17:00	23906	2_60	2010	361	1700	55.41	38.09	24.57	34.04	6.997	241.6	1646	13.45
12/27/2010 18:00	23907	2_60	2010	361	1800	63.71	35.27	24.58	0.691	5.973	236.8	1706	13.51
12/27/2010 19:00	23908	2_60	2010	361	1900	73.61	31.77	24.59	0	2.935	266.6	1811	13.57
12/27/2010 20:00	23909	2_60	2010	361	2000	78.15	29.89	24.59	0	2.048	257.8	1946	13.62
12/27/2010 21:00	23910	2_60	2010	361	2100	79.91	29.44	24.6	0	2.219	270.1	2041	13.66
12/27/2010 22:00	23911	2_60	2010	361	2200	74.83	31.14	24.6	0	2.014	261.3	2120	13.67
12/27/2010 23:00	23912	2_60	2010	361	2300	79.55	29.32	24.59	0	1.536	219	2244	13.67
12/28/2010 0:00	23913	2_60	2010	362	0	79.21	28.49	24.58	0	1.297	233	2343	13.69
12/28/2010 1:00	23914	2_60	2010	362	100	77.71	27.88	24.58	0	2.116	255.4	51	13.71
12/28/2010 2:00	23915	2_60	2010	362	200	76.1	28.07	24.58	0	2.389	323.1	153	13.73
12/28/2010 3:00	23916	2_60	2010	362	300	79.15	26.93	24.59	0	1.673	304.9	201	13.75
12/28/2010 4:00	23917	2_60	2010	362	400	84.2	25.1	24.58	0	1.843	42.14	351	13.76
12/28/2010 5:00	23918	2_60	2010	362	500	84.4	24.43	24.57	0	1.638	208.8	449	13.78
12/28/2010 6:00	23919	2_60	2010	362	600	84.1	24.72	24.56	0	1.707	257.9	545	13.79
12/28/2010 7:00	23920	2_60	2010	362	700	87.3	23.97	24.56	0	1.843	299.5	659	13.8
12/28/2010 8:00	23921	2_60	2010	362	800	89.6	21.68	24.58	5.093	4.062	292.2	711	13.81
12/28/2010 9:00	23922	2_60	2010	362	900	85.6	25.42	24.59	136.4	2.219	70.43	841	13.81
12/28/2010 10:00	23923	2_60	2010	362	1000	71.21	30.66	24.58	285.8	1.946	33.98	913	13.75
12/28/2010 11:00	23924	2_60	2010	362	1100	58.98	34.17	24.57	412.2	2.423	311.1	1033	13.62
12/28/2010 12:00	23925	2_60	2010	362	1200	57.31	36.19	24.53	491.6	2.56	298.2	1153	13.56
12/28/2010 13:00	23926	2_60	2010	362	1300	55.94	37.56	24.49	477.2	4.608	299.4	1234	13.48
12/28/2010 14:00	23927	2_60	2010	362	1400	50.66	39.1	24.46	416.7	3.482	303.1	1357	13.43
12/28/2010 15:00	23928	2_60	2010	362	1500	51.04	39.54	24.45	326.3	3.516	220.5	1455	13.4
12/28/2010 16:00	23929	2_60	2010	362	1600	56.13	37.87	24.44	147.2	3.14	230.1	1507	13.4
12/28/2010 17:00	23930	2_60	2010	362	1700	64.51	34.67	24.43	38.06	2.56	202.3	1622	13.47
12/28/2010 18:00	23931	2_60	2010	362	1800	68.82	32.02	24.43	0.833	3.379	142.1	1759	13.55
12/28/2010 19:00	23932	2_60	2010	362	1900	65.99	32.76	24.42	0	4.779	143.1	1810	13.6
12/28/2010 20:00	23933	2_60	2010	362	2000	63.93	33.17	24.41	0	3.755	219.7	1957	13.64
12/28/2010 21:00	23934	2_60	2010	362	2100	69	31.33	24.4	0	3.516	215.7	2003	13.66
12/28/2010 22:00	23935	2_60	2010	362	2200	70.46	30.55	24.38	0	2.116	188.2	2115	13.68
12/28/2010 23:00	23936	2_60	2010	362	2300	77.5	28.13	24.37	0	2.082	245.2	2233	13.7
12/29/2010 0:00	23937	2_60	2010	363	0	77.55	28.53	24.35	0	2.56	75.97	2316	13.72
12/29/2010 1:00	23938	2_60	2010	363	100	72.95	29.7	24.32	0	5.495	118.5	19	13.71
12/29/2010 2:00	23939	2_60	2010	363	200	79.39	28.01	24.29	0	1.57	204.5	102	13.69
12/29/2010 3:00	23940	2_60	2010	363	300	85.2	26.51	24.27	0	3.106	312.2	206	13.69
12/29/2010 4:00	23941	2_60	2010	363	400	83.4	27.87	24.22	0	3.072	261.1	302	13.68
12/29/2010 5:00	23942	2_60	2010	363	500	85.6	27.39	24.2	0.001	3.857	341.5	426	13.66
12/29/2010 6:00	23943	2_60	2010	363	600	93.8	27.16	24.17	0.002	2.662	246.3	500	13.66
12/29/2010 7:00	23944	2_60	2010	363	700	95.1	28.65	24.15	0.002	1.297	227.8	600	13.65
12/29/2010 8:00	23945	2_60	2010	363	800	95.6	29.08	24.13	0.243	1.468	184.4	704	13.63
12/29/2010 9:00	23946	2_60	2010	363	900	95.8	30.08	24.11	3.485	2.765	83.7	853	13.62
12/29/2010 10:00	23947	2_60	2010	363	1000	95.9	31.4	24.11	8.39	4.574	69.58	957	13.61
12/29/2010 11:00	23948	2_60	2010	363	1100	94	32.9	24.08	21.2	8.87	108.2	1037	13.6
12/29/2010 12:00	23949	2_60	2010	363	1200	82	34.27	24.04	27.79	11.5	154.2	1115	13.58
12/29/2010 13:00	23950	2_60	2010	363	1300	80.9	34.25	24	55.04	12.94	143.5	1210	13.57
12/29/2010 14:00	23951	2_60	2010	363	1400	79.1	34.78	23.97	127.6	10.31	139.6	1353	13.53
12/29/2010 15:00	23952	2_60	2010	363	1500	92.1	33.06	23.95	87.9	7.202	113.6	1402	13.56
12/29/2010 16:00	23953	2_60	2010	363	1600	93.5	32.9	23.93	45.55	9.39	118.4	1517	13.58
12/29/2010 17:00	23954	2_60	2010	363	1700	90.3	33.43	23.93	9.25	12.01	132.1	1652	13.59
12/29/2010 18:00	23955	2_60	2010	363	1800	76.85	35.76	23.91	0.104	11.71	137.6	1705	13.59
12/29/2010 19:00	23956	2_60	2010	363	1900	74.37	36.24	23.9	0.002	14.81	166.1	1809	13.58
12/29/2010 20:00	23957	2_60	2010	363	2000	77	35.72	23.89	0.002	15.56	177.8	1938	13.58
12/29/2010 21:00	23958	2_60	2010	363	2100	70.27	36.8	23.88	0.001	19.08	189.5	2057	13.58
12/29/2010 22:00	23959	2_60	2010	363	2200	72.16	36.27	23.88	0.002	19.05	170.2	2108	13.58
12/29/2010 23:00	23960	2_60	2010	363	2300	71.06	36.13	23.88	0.002	18.4	156.6	2207	13.58

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	WSpd30m_m/s	WDir30m_Deg	ST30m	VertWS30mEPS_Avg	VertWS30mEPS_Std	VertWS30mCFT_Avg	VertWS30mCFT_Std	Temp2m_Avg	Temp30m_Avg	DeltaT_Avg
TS	RN					m/s	Deg	Deg	cm/s	cm/s	cm/s	cm/s	DegC	DegC	
		Smp	Smp	Smp	Smp	WVc	WVc	WVc	Avg	Std	Avg	Std	Avg	Avg	Avg
12/30/2010 0:00	23961	2_60	2010	364	0	11.40856	185.8946	11.43275	26.35	92.5	113.8	114.3	1.784	1.819	0.03455966
12/30/2010 1:00	23962	2_60	2010	364	100	9.342129	195.1479	21.98315	22.37	149.8	84.7	172.5	1.834	1.767	-0.06712083
12/30/2010 2:00	23963	2_60	2010	364	200	8.494987	190.1929	17.61383	1.722	117.1	54.57	134.9	1.685	1.69	0.005029547
12/30/2010 3:00	23964	2_60	2010	364	300	4.987887	158.1769	37.72439	11.89	104	35.81	114.9	1.669	1.703	0.03325814
12/30/2010 4:00	23965	2_60	2010	364	400	5.737849	148.592	15.10579	0.968	60.17	25.45	72.24	0.968	0.956	-0.01142101
12/30/2010 5:00	23966	2_60	2010	364	500	4.172132	107.5065	17.83243	-5.33	34.51	-0.261	40.96	0.806	0.883	0.07683662
12/30/2010 6:00	23967	2_60	2010	364	600	3.132581	91.66084	21.26031	1.984	27.51	-0.03	31.46	0.268	0.653	0.3846936
12/30/2010 7:00	23968	2_60	2010	364	700	3.578414	136.821	33.90449	-0.92	64.26	11.19	70.75	1.036	1.208	0.1721775
12/30/2010 8:00	23969	2_60	2010	364	800	3.289728	173.4527	45.90726	-5.68	81.4	7.868	88.8	1.103	1.027	-0.07560737
12/30/2010 9:00	23970	2_60	2010	364	900	4.252659	225.5546	41.55501	25.61	46.71	53.21	60.53	-1.343	-1.258	0.08496967
12/30/2010 10:00	23971	2_60	2010	364	1000	2.984978	296.7882	45.436	21.21	39.18	21.25	44.27	-3.118	-3.249	-0.1304131
12/30/2010 11:00	23972	2_60	2010	364	1100	4.382933	247.7316	31.70204	17.41	48.3	42.04	55.79	-3.477	-3.698	-0.2206077
12/30/2010 12:00	23973	2_60	2010	364	1200	5.725989	259.9043	15.20197	13.43	55.87	41.65	67.16	-4.501	-4.737	-0.2356251
12/30/2010 13:00	23974	2_60	2010	364	1300	7.08536	258.6595	13.9636	11.28	71.2	49.02	85.6	-4.949	-5.17	-0.2209767
12/30/2010 14:00	23975	2_60	2010	364	1400	7.246368	259.275	11.68773	15.73	65.39	55	82.7	-5.122	-5.33	-0.2073962
12/30/2010 15:00	23976	2_60	2010	364	1500	10.51503	230.3969	8.167765	29.6	72.77	115.2	89	-5.23	-5.391	-0.1601489
12/30/2010 16:00	23977	2_60	2010	364	1600	10.49005	235.9323	8.382633	35.9	76.35	117.1	92.7	-5.881	-5.999	-0.1188481
12/30/2010 17:00	23978	2_60	2010	364	1700	9.240798	237.062	8.868856	43.91	64.58	116.4	75.55	-6.37	-6.467	-0.09649959
12/30/2010 18:00	23979	2_60	2010	364	1800	8.908154	236.2038	7.829419	27.36	61.23	94.9	72.78	-7	-6.944	0.05656748
12/30/2010 19:00	23980	2_60	2010	364	1900	7.56961	230.6785	7.398888	23.85	43.32	86.7	51.23	-7.52	-7.409	0.1117779
12/30/2010 20:00	23981	2_60	2010	364	2000	6.618763	227.0299	6.542659	20.31	36.22	77.29	44.13	-7.714	-7.715	-0.000780877
12/30/2010 21:00	23982	2_60	2010	364	2100	6.482582	222.4515	7.250037	20.61	33.72	79.07	40.81	-7.827	-7.856	-0.02892126
12/30/2010 22:00	23983	2_60	2010	364	2200	4.899057	232.9821	10.52643	20.98	32.26	60.55	39.95	-7.852	-7.929	-0.07702378
12/30/2010 23:00	23984	2_60	2010	364	2300	1.968858	314.4308	30.14754	15.59	27.09	18.97	35.52	-8.44	-8.55	-0.1088063
12/31/2010 1:00	23986	2_60	2010	365	100	4.225238	257.6376	16.43913	17.38	28.28	43.99	38.54	-8.54	-8.53	0.000162607
12/31/2010 2:00	23987	2_60	2010	365	200	5.250326	246.1808	6.865224	15.77	28.84	48.64	36.03	-8.76	-8.82	-0.0662757
12/31/2010 3:00	23988	2_60	2010	365	300	3.422251	254.8585	11.91236	10.72	21.34	28.71	28.01	-9.06	-9.16	-0.09933651
12/31/2010 4:00	23989	2_60	2010	365	400	1.52423	321.1108	21.45715	5.888	10.94	1.374	8.82	-9.5	-9.57	-0.06738482
12/31/2010 5:00	23990	2_60	2010	365	500	1.63646	256.5819	16.64544	-0.212	8.02	1.572	7.39	-9.76	-9.68	0.08765373
12/31/2010 6:00	23991	2_60	2010	365	600	2.375731	267.1853	12.79659	0.639	12.61	12.99	18.19	-9.98	-9.75	0.2326041
12/31/2010 7:00	23992	2_60	2010	365	700	1.413656	283.0616	22.44436	1.891	12.95	3.482	15.82	-10.33	-10.14	0.1836997
12/31/2010 8:00	23993	2_60	2010	365	800	0.8841328	246.6953	23.56934	1.079	5.081	0.816	5.986	-10.97	-10.66	0.3070949
12/31/2010 9:00	23994	2_60	2010	365	900	0.3033865	201.513	7.877748	-0.166	1.878	-0.204	0.663	-10.8	-11.03	-0.231927
12/31/2010 10:00	23995	2_60	2010	365	1000	1.111237	292.0919	25.22339	-0.652	14.87	-0.414	16.1	-10.79	-11.11	-0.3232404
12/31/2010 11:00	23996	2_60	2010	365	1100	2.439554	315.1112	22.97968	14.96	32.16	11.91	33.72	-10.71	-11.04	-0.3323318
12/31/2010 12:00	23997	2_60	2010	365	1200	2.774718	297.8647	46.02373	18.76	32.22	14.99	36.72	-10.22	-10.52	-0.3041724
12/31/2010 13:00	23998	2_60	2010	365	1300	3.905129	341.748	16.22921	23.34	33.57	11.77	40.22	-10.16	-10.34	-0.1810899
12/31/2010 14:00	23999	2_60	2010	365	1400	2.665126	314.2566	20.55875	13.11	27.55	7.889	30.36	-10.05	-10.28	-0.2273469
12/31/2010 15:00	24000	2_60	2010	365	1500	4.067057	2.719168	10.90339	24.48	23.12	10.02	28.57	-10.39	-10.45	-0.06245601
12/31/2010 16:00	24001	2_60	2010	365	1600	2.214597	333.5681	21.30475	15.89	15.97	9.12	16.89	-11.43	-10.77	0.6578075
12/31/2010 17:00	24002	2_60	2010	365	1700	1.37036	200.6517	10.18069	2.568	5.082	6.939	11.2	-12.78	-11.31	1.470594
12/31/2010 18:00	24003	2_60	2010	365	1800	1.717358	212.4976	6.332076	3.677	5.84	13.22	10.94	-14.85	-11.63	3.217856
12/31/2010 19:00	24004	2_60	2010	365	1900	1.570096	216.5739	7.243472	4.357	6.162	11.53	10.35	-15	-12	3.001749
12/31/2010 20:00	24005	2_60	2010	365	2000	1.367289	228.5042	16.03391	3.236	8.88	4.28	8.44	-15.17	-12.67	2.498317
12/31/2010 21:00	24006	2_60	2010	365	2100	0.7007793	170.8887	37.68243	1.145	4.299	0.254	2.825	-16.19	-13.53	2.657394
12/31/2010 22:00	24007	2_60	2010	365	2200	0.4603761	197.476	38.46152	0.698	3.825	0.598	3.799	-16.81	-14.05	2.760747
12/31/2010 23:00	24008	2_60	2010	365	2300	0.7801165	268.2446	17.72276	0.857	6.702	1.598	5.427	-17.32	-14.85	2.474005

Appendix A2 - Site 2 Fourth Quarter 2010 Met Data

TIMESTAMP	RECORD	HRLY_ARR_ID	Year	Day_of_Year	HOUR	RH_Avg	RHTemp_Avg	BPinHg	SolarRad_Avg	GustSpeed	GustDir	GustTime	BatteryV_Avg
TS	RN						DegF	inHg	W/m²	m/s	Deg		Volts
		Smp	Smp	Smp	Smp	Avg	Avg	Smp	Avg	Smp	Smp	Smp	Avg
12/30/2010 0:00	23961	2_60	2010	364	0	72.16	35.56	23.87	0.002	17.03	176.6	2317	13.58
12/30/2010 1:00	23962	2_60	2010	364	100	70.32	35.54	23.84	0.003	19.9	233.7	32	13.27
12/30/2010 2:00	23963	2_60	2010	364	200	68.65	35.47	23.84	0.013	17.37	219.9	107	12.31
12/30/2010 3:00	23964	2_60	2010	364	300	66.41	35.65	23.81	0.005	13.48	156.9	207	12.3
12/30/2010 4:00	23965	2_60	2010	364	400	78.27	33.82	23.79	0.004	11.26	165.8	321	13.18
12/30/2010 5:00	23966	2_60	2010	364	500	77.82	33.75	23.77	0	7.134	136.9	402	13.61
12/30/2010 6:00	23967	2_60	2010	364	600	83	32.88	23.76	0.001	6.144	108.5	501	13.6
12/30/2010 7:00	23968	2_60	2010	364	700	73	34.18	23.75	0.001	9.39	167.1	645	13.6
12/30/2010 8:00	23969	2_60	2010	364	800	65.85	34.35	23.73	5.896	9.86	175.1	707	13.6
12/30/2010 9:00	23970	2_60	2010	364	900	75.3	30.11	23.73	29.2	8.94	218.2	834	13.61
12/30/2010 10:00	23971	2_60	2010	364	1000	81.6	26.93	23.74	67.78	6.007	342.8	955	13.63
12/30/2010 11:00	23972	2_60	2010	364	1100	78.86	26.3	23.75	130.5	8.81	251.4	1023	13.65
12/30/2010 12:00	23973	2_60	2010	364	1200	79.81	24.35	23.75	141.3	10.07	265.9	1157	13.66
12/30/2010 13:00	23974	2_60	2010	364	1300	73.19	23.57	23.76	264.7	13.93	269.1	1253	13.68
12/30/2010 14:00	23975	2_60	2010	364	1400	68.03	23.35	23.77	258.1	13.52	240.4	1358	13.69
12/30/2010 15:00	23976	2_60	2010	364	1500	68.52	22.62	23.8	253.1	15.02	228.3	1442	13.13
12/30/2010 16:00	23977	2_60	2010	364	1600	66.12	21.61	23.84	132.3	15.63	231.6	1521	12.42
12/30/2010 17:00	23978	2_60	2010	364	1700	66.9	20.79	23.86	30.15	14.23	237.8	1621	12.27
12/30/2010 18:00	23979	2_60	2010	364	1800	66.62	19.75	23.89	0.775	13.86	231.1	1713	12.83
12/30/2010 19:00	23980	2_60	2010	364	1900	67.9	18.85	23.91	0	11.57	235.6	1810	13.83
12/30/2010 20:00	23981	2_60	2010	364	2000	70.85	18.44	23.92	0.001	9.56	227.6	1940	13.83
12/30/2010 21:00	23982	2_60	2010	364	2100	72.78	18.23	23.94	0	8.94	234.7	2013	13.83
12/30/2010 22:00	23983	2_60	2010	364	2200	75.94	18.17	23.96	0.001	8.12	219.6	2104	13.83
12/30/2010 23:00	23984	2_60	2010	364	2300	86.7	17.15	23.97	0.001	6.11	246.8	2259	13.82
12/31/2010 1:00	23986	2_60	2010	365	100	80.1	16.94	24.01	0.001	7.646	239.8	43	13.82
12/31/2010 2:00	23987	2_60	2010	365	200	77.55	16.53	24.03	0.001	7.953	245.5	114	13.83
12/31/2010 3:00	23988	2_60	2010	365	300	79.5	15.99	24.06	0	5.803	246.9	213	13.84
12/31/2010 4:00	23989	2_60	2010	365	400	87.9	15.25	24.08	0.001	3.755	327.1	319	13.84
12/31/2010 5:00	23990	2_60	2010	365	500	87.5	14.71	24.1	0.001	3.55	278.9	454	13.84
12/31/2010 6:00	23991	2_60	2010	365	600	74.84	14.28	24.12	0.001	3.994	276.9	508	13.86
12/31/2010 7:00	23992	2_60	2010	365	700	73.89	13.76	24.15	0	3.755	296.6	621	13.87
12/31/2010 8:00	23993	2_60	2010	365	800	80.4	12.7	24.18	8.81	1.911	314.7	739	13.88
12/31/2010 9:00	23994	2_60	2010	365	900	81.6	14.07	24.21	61.81	1.229	246.9	859	13.88
12/31/2010 10:00	23995	2_60	2010	365	1000	77.57	14.72	24.25	116.1	2.389	324.4	950	13.85
12/31/2010 11:00	23996	2_60	2010	365	1100	71.99	14.3	24.27	173.7	5.734	350.7	1031	13.82
12/31/2010 12:00	23997	2_60	2010	365	1200	57.41	15.76	24.27	275.6	7.543	333.4	1145	13.79
12/31/2010 13:00	23998	2_60	2010	365	1300	51.43	15.19	24.27	313.5	8.29	346.4	1225	13.76
12/31/2010 14:00	23999	2_60	2010	365	1400	50.67	16.39	24.29	318.1	6.451	336.3	1341	13.74
12/31/2010 15:00	24000	2_60	2010	365	1500	55.9	14.17	24.31	189	5.734	9.31	1406	13.76
12/31/2010 16:00	24001	2_60	2010	365	1600	56.65	12.79	24.33	116.9	4.676	332.9	1508	13.81
12/31/2010 17:00	24002	2_60	2010	365	1700	65.36	9.86	24.35	28.23	2.355	206	1650	13.87
12/31/2010 18:00	24003	2_60	2010	365	1800	70.01	6.04	24.37	1.425	2.458	218.8	1705	13.95
12/31/2010 19:00	24004	2_60	2010	365	1900	70.72	5.805	24.39	0	2.423	212.3	1810	14.02
12/31/2010 20:00	24005	2_60	2010	365	2000	70.68	5.43	24.42	0	2.56	299.3	1952	14.06
12/31/2010 21:00	24006	2_60	2010	365	2100	73.58	3.552	24.44	0	1.946	145.5	2014	14.09
12/31/2010 22:00	24007	2_60	2010	365	2200	76.46	2.319	24.46	0	1.331	185.3	2133	14.11
12/31/2010 23:00	24008	2_60	2010	365	2300	76.96	1.534	24.48	0	1.707	261.1	2230	14.13