

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
6/1/05 0:00	0.03561	20	0.4	1.3	225	4.5	0.015	0	0.008	0.008	11.6	18.33	89	
6/1/05 1:00	0.04045	20.1	0.5	1.8	112.5	4.9	0.015	0	0.007	0.006	13	18.33	91	
6/1/05 2:00	0.04187	20.7	0.4	3.6	112.5	4.9	0.014	0	0.006	0.006	12.9	18.33	89	
6/1/05 3:00	0.02926	20.6	0.6	1.3	112.5	4.5	0.021	0	0.004	0.004	14.4	18.89	87	
6/1/05 4:00	0.03125	19.6	0.8	0.4	225	2.2	0.02	0	0.005	0.005	15.3	18.89	87	
6/1/05 5:00	0.03027	19.3	1	0.9	225	2.7	0.018	0.001	0.007	0.008	14.8	18.33	92	
6/1/05 6:00	0.03045	18.9	0.5	2.2	0	6.3	0.02	0.003	0.011	0.014	17.3	18.89	94	
6/1/05 7:00	0.02919	18.9	0.5	3.1	22.5	7.2	0.006	0.006	0.014	0.02	21.2	19.44	93	
6/1/05 8:00	0.0304	18.9	0.4	5.4	22.5	9.4	0.029	0.005	0.011	0.015	19.7	19.44	92	
6/1/05 9:00	0.03398	19.1	0.4	4.5	22.5	9.4	0.028	0.004	0.013	0.017	19.1	20.00	89	
6/1/05 10:00	0.03628	20.4	3.5	4.9	22.5	9.8	0.035	0.005	0.013	0.018	18.2	21.67	81	
6/1/05 11:00	0.04147	23.1	2.3	2.7	0	10.7	0.042	0.003	0.007	0.01	19.1	22.22	76	
6/1/05 12:00	0.04225	25.4	1.9	1.8	225	5.4	0.044	0.002	0.007	0.009	24.3	23.89	71	
6/1/05 13:00	0.04218	27.4	3.9	1.8	225	5.8	0.046	0.002	0.008	0.01	27.1	25.00	65	
6/1/05 14:00	0.04693	27.4	6	2.2	202.5	8	0.052	0.001	0.006	0.006	26.4	25.00	63	
6/1/05 15:00	0.048	25.9	2.8	4	112.5	9.4	0.05	0.001	0.008	0.01	24.9	25.56	63	
6/1/05 16:00	0.05399	25.8	2.2	3.1	112.5	8	0.054	0.001	0.007	0.008	23.5	25.56	58	
6/1/05 17:00	0.05597	25.1	1.9	2.2	112.5	6.7	0.053	0.001	0.006	0.007	17.6	25.56	52	
6/1/05 18:00	0.05652	24.3	1	2.7	112.5	7.2	0.053	0.001	0.007	0.008	24.2	24.44	58	
6/1/05 19:00	0.05689	23.2	1.4	2.7	112.5	5.8	0.048	0	0.011	0.012	24.6	22.78	63	
6/1/05 20:00	0.0541	21.6	1.3	1.3	270	3.6	0.031	0.002	0.019	0.022	25	21.11	74	
6/1/05 21:00	0.04727	20.7	0.4	1.8	270	4.9	0.017	0.008	0.023	0.032	22.3	20.00	80	
6/1/05 22:00	0.04765	20.6	0.2	4	112.5	7.2	0.008	0.004	0.024	0.028	21.6	18.89	88	
6/1/05 23:00	0.03237	20.3	0.6	3.1	112.5	7.6	0.003	0.011	0.022	0.033	22.6	17.78	91	
6/2/05 0:00	0.02589	19.9	0.2	2.2	112.5	4.5	0	0.009	0.017	0.026	22.7	16.67	93	
6/2/05 1:00	0.04359	19.9	0.2	2.7	112.5	4.9	0	0.013	0.012	0.025	19.7	16.11	94	
6/2/05 2:00	0.04424	19.9	0.1	2.2	135	4.9	0	0.012	0.009	0.021	20.5	15.56	94	
6/2/05 3:00	0.04806	19.9	0.2	1.8	225	4	0	0.011	0.007	0.018	22	15.00	94	
6/2/05 4:00	0.04834	19.8	0.2	1.8	135	4	0	0.018	0.005	0.024	21.5	14.44	95	
6/2/05 5:00	0.04516	19.6	0.2	2.2	112.5	5.4	0	0.044	0.004	0.048	17.4	14.44	95	
6/2/05 6:00	0.04508	19.6	0.5	2.7	157.5	5.4	0	0.067	0.006	0.073	20.9	16.67	94	
6/2/05 7:00	0.05319	20.3	1.1	3.1	202.5	6.3	0.007	0.047	0.019	0.066	29.8	21.11	80	
6/2/05 8:00	0.03727	21.7	1.9	2.7	202.5	6.7	0.038	0.003	0.012	0.016	24.4	24.44	66	
6/2/05 9:00	0.03946	23.3	2.8	3.6	202.5	6.7	0.048	0.002	0.008	0.009	25.56	25.56	61	
6/2/05 10:00	0.04564	26.7	4.9	3.1	202.5	8	0.053	0.001	0.006	0.007	26.67	26.67	57	
6/2/05 11:00	0.04941	29.8	4.7	2.7	202.5	6.7	0.055	0.001	0.006	0.006	21.6	27.78	52	
6/2/05 12:00	0.04779	32.8	2.5	2.2	157.5	6.7	0.057	0.001	0.005	0.006	17.1	28.89	50	
6/2/05 13:00	0.05537	31.9	2.9	3.6	202.5	7.2	0.057	0	0.005	0.005	17.9	29.44	47	
6/2/05 14:00	0.05206	32	2.5	3.1	202.5	7.2	0.056	0.001	0.005	0.006	17.7	30.00	45	
6/2/05 15:00	0.05887	30.2	3.2	3.6	202.5	8.5	0.058	0.001	0.005	0.006	17.8	30.00	44	
6/2/05 16:00	0.05862	29.3	1.1	3.6	202.5	9.4	0.058	0.001	0.005	0.006	17.4	30.00	42	
6/2/05 17:00	0.05846	28.4	1.3	3.1	135	9.4	0.058	0	0.005	0.006	19	29.44	41	
6/2/05 18:00	0.06266	27.3	1	3.6	202.5	7.6	0.056	0	0.006	0.006	20.3	28.89	46	
6/2/05 19:00	0.06146	26.2	1.2	3.1	180	8	0.05	0	0.008	0.008	20.9	27.22	56	
6/2/05 20:00	0.05372	25	1.1	3.6	112.5	9.4	0.037	0	0.012	0.012	18.9	26.11	59	
6/2/05 21:00	0.04601	24.3	0.4	4.5	112.5	12.1	0.041	0	0.007	0.007	18.7	26.11	61	
6/2/05 22:00	0.04634	23.9	0.3	4.9	157.5	12.1	0.035	0	0.009	0.009	16.6	25.00	63	
6/2/05 23:00	0.04676	24.2	0.7	8	202.5	13	0.034	0	0.008	0.008	19.3	23.89	68	
6/3/05 0:00	0.04299	23.2	0.6	5.4	202.5	11.6	0.029	0	0.01	0.011	18.3	23.33	73	
6/3/05 1:00	0.04311	22.8	0.9	4.9	202.5	11.2	0.029	0	0.008	0.008	19.8	22.78	75	
6/3/05 2:00	0.04208	22.2	0.3	4.5	180	10.7	0.026	0	0.01	0.01	18.7	22.22	76	
6/3/05 3:00	0.03955	21.8	0.5	4.5	157.5	11.2	0.031	0	0.006	0.006	16.6	22.22	75	
6/3/05 4:00	0.03975	21.3	0.4	4.5	180	9.8	0.032	0	0.006	0.006	17	22.22	75	
6/3/05 5:00	0.0419	21.1	0.3	4.9	180	10.7	0.03	0	0.008	0.009	17.1	21.67	76	
6/3/05 6:00	0.03979	20.9	0.2	4.9	157.5	10.7	0.031	0.001	0.011	0.013	17.6	22.78	73	
6/3/05 7:00	0.03827	21.5	1.6	5.4	202.5	12.1	0.034	0.002	0.01	0.012	20.7	25.00	66	
6/3/05 8:00	0.04154	23.1	1.5	7.2	202.5	15.2	0.047	0.001	0.008	0.009	20.8	26.67	63	
6/3/05 9:00	0.04947	24.6	2.9	6.7	202.5	14.8	0.053	0.001	0.007	0.008	21.7	27.78	62	
6/3/05 10:00	0.05364	25.7	1.6	7.6	202.5	15.6	0.059	0.001	0.008	0.009	26.5	28.89	60	
6/3/05 11:00	0.05993	26.7	2.4	9.8	202.5	14.8	0.06	0	0.008	0.009	26.7	28.89	57	
6/3/05 12:00	0.06073	27.1	1.4	9.8	202.5	18.3	0.057	0	0.005	0.006	27.2	30.56	52	
6/3/05 13:00	0.05731	28.3	2.8	5.4	180	14.3	0.053	0	0.005	0.005	26.3	30.00	55	
6/3/05 14:00	0.05047	29.3	3.8	4.5	0	10.3	0.055	0.001	0.005	0.006	28.4	30.56	54	
6/3/05 15:00	0.05509	29.1	1.8	4	202.5	9.8	0.054	0.001	0.009	0.01	28	30.00	54	
6/3/05 16:00	0.05703	28.4	1.3	5.8	202.5	11.2	0.051	0.001	0.012	0.013	30.8	29.44	54	
6/3/05 17:00	0.05205	27.3	1.2	6.7	202.5	11.2	0.054	0	0.01	0.01	26.7	29.44	55	
6/3/05 18:00	0.05533	27.1	0.9	4.5	202.5	11.2	0.058	0	0.006	0.007	30	29.44	53	
6/3/05 19:00	0.06217	26.8	0.7	6.3	202.5	13.9	0.058	0	0.007	0.007	26.4	28.33	54	
6/3/05 20:00	0.05919	26.1	0.8	8.5	202.5	14.8	0.048	0	0.012	0.012	23.3	27.22	58	
6/3/05 21:00	0.05342	25.3	0.5	10.3	202.5	16.1	0.046	0	0.013	0.013	22.5	26.67	59	
6/3/05 22:00	0.05588	24.8	0.5	11.2	202.5	17	0.045	0	0.013	0.013	19.8	26.11	61	
6/3/05 23:00	0.05496	24.6	0	13.4	202.5	20.1	0.047	0	0.007	0.007	19.5	26.11	63	
6/4/05 0:00	0.05137	24.2	0.2	13.9	202.5	19.7	0.048	0	0.004	0.004	19.1	25.56	65	
6/4/05 1:00	0.04947	23.9	0.3	11.6	180	18.8	0.049	0	0.004	0.004	17.8	25.56	67	
6/4/05 2:00	0.04948	23.6	0.4	9.8	202.5	14.8	0.044	0	0.009	0.009	19.8	25.00	69	
6/4/05 3:00	0.0483	23.2	0.5	9.4	202.5	14.8	0.046	0	0.005	0.005	20.9	24.44	72	
6/4/05 4:00	0.04768	22.7	0.7	10.7	202.5	17	0.043	0	0.005	0.005	19.7	23.89	75	
6/4/05 5:00	0.04652	22.3	0.2	11.2	202.5	16.5	0.042	0	0.005	0.005	21.4	23.89	78	
6/4/05 6:00	0.04378	22.1	0.2	11.2	202.5	17	0.036	0	0.008	0.008	19.5	24.44	79	
6/4/05 7:00	0.03541	22.2	0.2	5.4	202.5	13.4	0.03	0.001	0.009	0.01	23.89	23.89	82	
6/4/05 8:00	0.02957	22.4	1.5	1.8	180	6.7	0.031	0.002	0.009	0.011	26.67	23.89	73	
6/4/05 9:00	0.02721	24.4	3.5	4.5	180	9.4	0.036	0.001	0.005	0.006	28.33	23.89	65	
6/4/05 10:00	0.03219	26.1	1.8	6.3	180	13.4	0.038	0.001	0.004	0.005	29.44	23.89	59	
6/4/05 11:00	0.03471	27.6	3.1	8	202.5	14.3	0.04	0.001	0.005	0.006	30.56	23.89	56	
6/4/05 12:00	0.03498	28.8	2.2	8.9	202.5	13.9	0.04	0.001	0.004	0.005	31.11	23.89	54	
6/4/05 13:00	0.03568	28.2	1.8	10.3	202.5	15.2	0.041	0.003	0.005	0.008	31.67	23.89	52	

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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,AM} (°C)	
6/1/05 0:00	208	0	20	17.6	16.1	78	1.54	290	983.75	18.3	19.9	1.6
6/1/05 1:00	228	0	19.4	17.7	16.7	84	2.06	290	983.41	18.2	19.2	1
6/1/05 2:00	74	0.44704	18.9	17.6	16.7	87	3.09	360	983.75	18.1	18.4	0.3
6/1/05 3:00	156	0.89408	18.9	17.6	16.7	87	2.57	360	983.75	18.1	18.4	0.3
6/1/05 4:00	197	0.89408	18.9	17.6	16.7	87	2.06	330	983.75	18.2	18.3	0.1
6/1/05 5:00	100	1.34112	18.9	18.2	17.8	93	3.09	40	984.08	18.1	18.1	0
6/1/05 6:00	154	0.89408	19.4	18.7	18.3	93	3.60	30	984.42	18.1	18.1	0
6/1/05 7:00	43	1.78816	20	18.9	18.3	90	4.63	50	984.76	18.1	18	0
6/1/05 8:00	46	2.2352	20.6	19.5	18.9	90	2.06	50	985.44	18.1	18	-0.1
6/1/05 9:00	62	2.2352	20.6	19.1	18.3	87	4.63	50	985.44	18.2	18	-0.2
6/1/05 10:00	77	2.2352	22.2	19.7	18.3	79	4.12	60	985.44	19.8	19.2	-0.6
6/1/05 11:00	74	1.78816	22.8	19.6	17.8	74	3.09		985.10	21.1	20.5	-0.6
6/1/05 12:00	93	1.78816	24.4	20.5	18.3	69	3.09	110	984.42	22.7	21.8	-0.9
6/1/05 13:00	111	2.68224	25.6	20.6	17.8	62	5.66	100	984.08	23.9	23	-0.9
6/1/05 14:00	149	2.68224	25.6	20.6	17.8	62	4.12	120	983.75	24.7	23.9	-0.8
6/1/05 15:00	165	2.2352	25.6	19.9	16.7	58	5.14	130	983.41	25.3	24.6	-0.7
6/1/05 16:00	136	2.2352	25.6	18.7	14.4	50	4.12	130	983.41	24.7	24.2	-0.5
6/1/05 17:00	117	1.78816	25	19.1	15.6	56	4.63	110	983.41	24.2	23.9	-0.2
6/1/05 18:00	113	1.78816	23.3	18.8	16.1	64	2.57	120	983.75	22.7	22.9	0.2
6/1/05 19:00	104	0.89408	21.7	18.6	16.7	73	2.57	110	983.75	20.8	21.7	0.9
6/1/05 20:00	108	0.89408	18	16.7	81	2.57	120	984.08	19.7	21	1.3	
6/1/05 21:00	112	0.44704	20.6	18.2	16.7	78	1.54	150	984.08	19	20.1	1.1
6/1/05 22:00	177	0.44704	18.9	17.6	16.7	87	2.06	150	984.08	18.9	20	1.1
6/1/05 23:00	205	0	20	18.3	17.2	84	0.00	0	983.75	17.9	19.5	1.6
6/2/05 0:00	210	0	18.3	17.3	16.7	90	0.00	0	983.41	17.2	19.2	2
6/2/05 1:00	178	0	17.8	16.8	16.1	90	0.00	0	983.07	16.1	18.5	2.4
6/2/05 2:00	130	0	16.7	16.3	16.1	96	1.54	330	983.41	15.7	18.4	2.7
6/2/05 3:00	208	0	15.6	15.2	15	96	0.00	0	983.07	16.3	18.3	2
6/2/05 4:00	201	0	16.1	15.5	15	93	0.00	0	983.41	15.8	18.2	2.5
6/2/05 5:00	189	0	16.7	16.3	16.1	96	0.00	0	983.75	16.3	17.5	1.3
6/2/05 6:00	163	0	18.9	17.9	17.2	90	2.06	120	984.08	18.6	19	0.3
6/2/05 7:00	114	0.89408	22.2	19.1	17.2	73	4.12	150	984.08	20.7	20.3	-0.5
6/2/05 8:00	186	1.34112	23.9	19.6	17.2	66	3.09	170	984.08	21.9	21.1	-0.8
6/2/05 9:00	188	1.78816	25	20	17.2	62	3.60	190	983.75	23.8	22.9	-0.9
6/2/05 10:00	174	1.78816	26.7	20.6	17.2	56	4.12	170	983.41	25.4	24.4	-1
6/2/05 11:00	182	1.78816	27.8	20.9	17.2	53	3.60	170	982.73	26.5	25.5	-1
6/2/05 12:00	172	1.78816	28.9	21	16.7	48	3.60	190	982.05	27.4	26.4	-1
6/2/05 13:00	181	1.78816	30	21	16.1	43	5.14	200	981.38	28.2	27.3	-0.9
6/2/05 14:00	168	2.2352	30	20.7	15.6	42	6.14	170	980.70	28.7	27.9	-0.9
6/2/05 15:00	163	2.2352	30.6	20.9	15.6	40	6.69	170	980.36	28.9	28.3	-0.6
6/2/05 16:00	158	2.68224	30	21.3	16.6	45	5.66	130	980.02	28.9	28.5	-0.4
6/2/05 17:00	170	2.2352	28.9	21.2	17.2	49	6.69	130	980.36	27.7	27.9	0.1
6/2/05 18:00	168	2.2352	27.8	21.5	18.3	56	5.14	130	980.02	26.4	26.7	0.3
6/2/05 19:00	157	2.2352	25	20.6	18.3	66	3.09	120	980.02	24.6	25.4	0.8
6/2/05 20:00	161	1.78816	25.6	20.5	17.8	62	4.12	180	980.02	24	24.7	0.7
6/2/05 21:00	172	2.2352	25	20.3	17.8	64	4.63	150	980.02	23.3	24.1	0.8
6/2/05 22:00	171	1.34112	22.8	19.9	18.3	76	3.60	130	980.02	22.4	23.2	0.8
6/2/05 23:00	167	1.34112	21.7	19.5	18.3	81	2.57	130	980.02	21.6	22.3	0.8
6/3/05 0:00	138	1.34112	21.1	19.3	18.3	84	3.09	130	979.68	21	21.6	0.6
6/3/05 1:00	138	1.34112	21.7	19.5	18.3	81	4.12	140	979.68	20.5	21.1	0.6
6/3/05 2:00	134	0.89408	22.2	19.4	17.8	76	4.12	150	980.02	20.2	20.7	0.6
6/3/05 3:00	155	1.34112	22.2	19.4	17.8	76	4.12	150	980.02	20.4	20.8	0.5
6/3/05 4:00	160	1.34112	21.7	19.2	17.8	79	3.60	150	979.68	20.1	20.5	0.4
6/3/05 5:00	167	1.34112	21.7	19.2	17.8	79	4.12	150	980.02	20.4	20.7	0.3
6/3/05 6:00	195	1.78816	23.3	19.8	17.8	71	4.63	160	979.68	21.7	21.6	0
6/3/05 7:00	179	2.68224	25.6	20.8	18.3	64	7.20	170	980.36	23.9	23.5	-0.4
6/3/05 8:00	187	2.68224	26.7	21.5	18.9	62	7.72	180	980.36	25.2	24.9	-0.4
6/3/05 9:00	188	3.12928	28.3	22.7	20	61	7.20	180	980.70	26.4	25.9	-0.6
6/3/05 10:00	189	3.12928	29.4	23	20	57	8.75	180	979.34	27.3	26.8	-0.6
6/3/05 11:00	198	2.68224	29.4	22.4	18.9	53	11.32	200	979.34	26.5	26.6	0.1
6/3/05 12:00	212	2.68224	31.1	22.8	18.9	48	10.29	210	978.67	26.8	26.8	-0.1
6/3/05 13:00	229	2.2352	29.4	22.6	19.4	55	6.17	210	978.67	27	26.6	-0.4
6/3/05 14:00	211	1.34112	30.6	23	19.4	51	5.14	200	977.99	28.4	27.6	-0.8
6/3/05 15:00	195	1.78816	30.6	23	19.4	51	5.66	180	977.31	27.3	27.1	-0.2
6/3/05 16:00	185	2.2352	30	22.5	18.9	51	6.69	180	977.31	26.8	26.8	0
6/3/05 17:00	183	2.2352	30	22.5	18.9	51	8.75	170	976.63	26.7	26.8	0.1
6/3/05 18:00	176	2.68224	29.4	22	18.3	51	7.20	170	976.30	27.1	27.3	0.2
6/3/05 19:00	186	2.68224	28.3	21.7	18.3	55	6.69	170	976.97	26.3	27	0.6
6/3/05 20:00	189	2.2352	27.2	21	17.8	57	7.20	180	977.31	25.8	26.3	0.6
6/3/05 21:00	193	2.2352	26.7	20.9	17.8	58	7.20	180	977.31	25.6	26.1	0.4
6/3/05 22:00	199	2.68224	26.7	21.2	18.3	60	8.75	180	977.31	25.1	25.6	0.5
6/3/05 23:00	198	2.68224	26.1	21	18.3	62	10.29	180	977.31	24.7	25.1	0.4
6/4/05 0:00	206	2.2352	26.1	21	18.3	62	9.77	180	977.31	24.3	24.7	0.4
6/4/05 1:00	198	1.34112	25.6	21.2	18.9	67	6.69	180	977.65	24.4	24.7	0.3
6/4/05 2:00	191	1.78816	25	21	18.9	69	4.12	160	977.31	24.2	24.5	0.4
6/4/05 3:00	191	2.2352	23.9	20.6	18.9	74	5.14	170	977.31	23.7	24.1	0.4
6/4/05 4:00	192	2.2352	23.9	20.9	19.4	76	6.69	170	977.65	22.9	23.3	0.4
6/4/05 5:00	197	2.2352	23.9	21.3	20	79	5.66	170	977.99	22.9	23.2	0.3
6/4/05 6:00	232	1.34112	24.4	21.9	20.6	79	4.12	170	979.00	22.9	23.2	0.3
6/4/05 7:00	223	0.89408	24.4	22.2	21.1	82	4.12	180	979.68	24.2	23.8	-0.4
6/4/05 8:00	202	1.34112	26.1	22.7	21.1	74	5.14	170	979.68	24.9	24.3	-0.5
6/4/05 9:00	198	1.78816	27.8	23.2	21.1	67	5.14	190	979.68	26.5	25.8	-0.7
6/4/05 10:00	199	3.12928	29.4	23.4	20.6	59	6.69	180	979.34	27.6	26.9	-0.7
6/4/05 11:00	192	3.12928	29.4	23	20	57	9.26	190	979.00	28.6	27.9	-0.7
6/4/05 12:00	199	3.12928	30	23.2	20	55	9.26	180	979.00	29.1	28.4	-0.7
6/4/05 13:00	194	2.68224	30.6	23.3	20	53	8.23	190	978.67	29.6	28.9	-0.7
6/4/05 14:00	182	3.12928	31.1	23.8	20.6	54	8.75	180	977.99	30.1	29.5	-0.6
6/4/05 15:00	185	3.12928	31.1	24.5	21.7	57	8.23	170	977.65	30.3	29.9	-0.4
6/4/05 16:00	182	3.12928	31.1	23.8	20.6	54	8.75	170	977.31	30	29.8	-0.2
6/4/05 17:00	182	3.12928	30	23.8	21.1	59	7.20	170	977.31	28.6	28.9	0.2
6/4/05 18:00	194	2.68224	28.9	23.5	21.1	63	7.20	190	977.99	28	28.4	0.3
6/4/05 19:00	206	1.78816	27.2	23.4	21.7	72	5.66	190	979.00	26.6	27.2	0.6
6/4/05 20:00	178	3.12928	26.1	23.1	21.7	77	9.77	160	977.31	26.6	27.2	0.6
6/4/05 21:00	182	5.36448	27.2	21.7	18.9	61	16.98	180	977.65	27.1	27.5	0.4
6/4/05 22:00	197	4.4704	25.6	17.5	12.							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
6/1/05 0:00	87.3	0.3	0.3	0	0.9	0.1	71.3	11.6	-0.1	0	0	977.32
6/1/05 1:00	88.8	0.6	1.3	0.7	3	0.3	281.7	9.8	-0.3	0	0	976.79
6/1/05 2:00	89.5	1.1	1.9	0.8	3.8	0.4	216.5	13.7	-0.2	0	0	976.92
6/1/05 3:00	89.3	1.2	2	0.8	3.9	0.4	19.8	10.8	-0.1	0	0	977.11
6/1/05 4:00	92.8	1.8	2.7	0.9	4.6	0.5	24.3	11.8	0	0	0	977.06
6/1/05 5:00	95.4	1.5	2.2	0.7	4.4	0.4	37.8	12.6	2.7	0.01	0.02	977.23
6/1/05 6:00	96	1.3	2	0.7	4.2	0.4	57.5	11.7	14.4	0.05	0.02	977.92
6/1/05 7:00	96.6	2.2	2.9	0.8	6	0.7	36.5	13.1	48.8	0.18	0	978.3
6/1/05 8:00	96.2	2.4	3.3	0.9	6.2	0.8	41.8	13.6	75.4	0.27	0	978.65
6/1/05 9:00	94.3	2.1	2.9	0.8	5.4	0.6	57.3	12.6	193.6	0.77	0	978.64
6/1/05 10:00	87.4	1.9	2.7	0.7	4.8	0.6	61	13.8	415.2	1.49	0	978.57
6/1/05 11:00	82.8	1.9	2.7	0.8	4.2	0.6	74.1	14	453.8	1.63	0	978.59
6/1/05 12:00	79.3	2.3	3.2	0.9	5.8	0.8	84.8	17.9	691.2	2.49	0	978.12
6/1/05 13:00	73.4	2.4	3.4	1	6.6	0.9	93.8	17.6	795.3	2.86	0	977.63
6/1/05 14:00	68.8	2	2.8	0.8	6.2	0.8	110.2	18.1	687.3	2.47	0	977.27
6/1/05 15:00	63.8	2	2.9	0.9	5.6	0.7	115.4	15.4	634	2.28	0	976.95
6/1/05 16:00	66.8	2.3	3.3	1	7	0.8	141.4	15.7	420	1.51	0	976.82
6/1/05 17:00	63.6	1.8	2.7	0.8	5	0.6	129.8	13.9	305.1	1.1	0	976.77
6/1/05 18:00	68.7	1.1	2	0.9	3.5	0.4	110.9	10.3	130.3	0.47	0	976.98
6/1/05 19:00	79.2	0.1	1.2	1	2.4	0.3	103.2	11	12.3	0.04	0	977.07
6/1/05 20:00	84.3	0.5	1.9	1.4	3.3	0.3	110.2	7.7	-0.1	0	0	977.3
6/1/05 21:00	87.8	0.5	1.7	1.2	3.8	0.4	106.8	10.7	0	0	0	977.32
6/1/05 22:00	86.8	0.5	1.8	1.3	3.8	0.4	124.2	10.1	0	0	0	977.29
6/1/05 23:00	89.3	0.1	0.8	0.7	2	0.2	144.5	8.7	-0.1	0	0	977.28
6/2/05 0:00	93.8	0	1.1	1.1	2	0.2	176.8	7.2	-0.1	0	0	976.87
6/2/05 1:00	95	0	0.6	0.6	1.1	0.1	173	2.9	0	0	0	976.58
6/2/05 2:00	96.3	0	0.7	0.7	1.4	0.1	210.5	2	0	0	0	976.57
6/2/05 3:00	97	0	0.5	0.5	1.2	0.1	169.2	2.2	-0.1	0	0	976.5
6/2/05 4:00	96.8	0.1	0.8	0.7	1.8	0.1	132.1	5.9	0.1	0	0	976.52
6/2/05 5:00	97	0	1	1	1.9	0.2	136.5	6.5	32.1	0.12	0	976.81
6/2/05 6:00	96.2	0.3	1.2	0.9	3.7	0.3	121.7	11.1	186	0.67	0	977.04
6/2/05 7:00	82.8	1.6	2.2	0.7	4.2	0.6	141.2	14.8	376.5	1.36	0	977.18
6/2/05 8:00	77.8	2	2.8	0.8	4.7	0.6	187.7	13.5	560.1	2.02	0	977.31
6/2/05 9:00	71.4	2.3	3.1	0.8	6.9	0.9	147.6	16.7	733.5	2.64	0	977.03
6/2/05 10:00	62.7	2.5	3.4	0.9	6.2	0.9	165.5	20.4	860	3.1	0	976.79
6/2/05 11:00	59.8	2.4	3.2	0.8	6.8	1	153.1	20.4	930.5	3.35	0	976.27
6/2/05 12:00	55.5	2.7	3.6	0.9	6.6	0.8	150.7	16.6	948.6	3.41	0	975.85
6/2/05 13:00	53.4	2.6	3.8	1	6.8	1	142.5	19.5	893.2	3.22	0	974.91
6/2/05 14:00	50.5	2.8	3.7	1	7.7	1	138.9	16.5	824	2.97	0	974.22
6/2/05 15:00	47.9	2.8	4	1.2	7.7	1.1	138.6	14.7	675.3	2.43	0	973.8
6/2/05 16:00	46.3	2.3	3.3	1	6.5	0.9	144.3	15.2	496.4	1.79	0	973.73
6/2/05 17:00	49.6	1.8	2.6	0.8	6.5	0.7	151.8	12.6	216.5	0.78	0	973.71
6/2/05 18:00	58.3	2.2	3.4	1.2	6.1	0.8	129.3	12.5	133.5	0.48	0	973.28
6/2/05 19:00	64.6	1.7	2.8	1.1	5.1	0.6	123.9	10.7	11.2	0.04	0	973.42
6/2/05 20:00	68.3	1.8	2.6	0.9	4.8	0.6	161	12.3	0	0	0	973.49
6/2/05 21:00	71.8	1.3	2.2	0.9	4.3	0.5	151.4	12.6	0	0	0	973.44
6/2/05 22:00	75.8	1.5	2.5	1.1	4.4	0.4	135.3	9.8	0	0	0	973.45
6/2/05 23:00	80.6	1.6	2.8	1.1	4.4	0.4	124.8	8.5	0	0	0	973.35
6/3/05 0:00	84.3	1.6	2.8	1.2	4.5	0.4	122.7	8.3	0	0	0	973.22
6/3/05 1:00	86.8	1.6	2.7	1.1	4.6	0.4	119.4	8.6	0	0	0	973.18
6/3/05 2:00	87.7	1.5	2.5	1	4.2	0.4	120.5	8.7	0	0	0	973.39
6/3/05 3:00	86	1.7	2.7	1	5.6	0.5	131.6	11.1	0	0	0	973.3
6/3/05 4:00	86.4	1.7	2.7	1	4.8	0.6	141.7	11	0.2	0	0	973.03
6/3/05 5:00	84.5	2.2	3.1	0.9	5.7	0.7	157.9	12.9	27.2	0.1	0	973.1
6/3/05 6:00	80.2	2.6	3.6	0.9	7.4	0.9	164.1	14	169.5	0.61	0	972.97
6/3/05 7:00	72.8	3.8	5.2	1.4	9.6	1.2	175.7	13.1	414.3	1.49	0	973.11
6/3/05 8:00	69.7	3.9	5.4	1.4	10.9	1.3	152.1	13.4	426.3	1.53	0	973.49
6/3/05 9:00	68.1	4.3	5.8	1.5	10.5	1.4	180.4	13.4	617.9	2.22	0	973.55
6/3/05 10:00	66.6	4.4	5.8	1.4	11.1	1.5	178	14.6	656.3	2.36	0	972.78
6/3/05 11:00	67.3	4.2	5.7	1.5	11.4	1.4	183.5	12.7	146.6	0.53	0	972.54
6/3/05 12:00	65.9	4.8	6.7	1.9	12.9	1.4	186.5	11.1	353.8	1.27	0	972.41
6/3/05 13:00	69.9	2.9	4	1.1	7.1	0.9	199.5	12.2	449.7	1.62	0	972.46
6/3/05 14:00	63.9	2	2.6	0.7	4.7	0.7	170.8	16.3	670.3	2.41	0	971.66
6/3/05 15:00	71.1	1.6	2.4	0.8	4.4	0.6	168.3	13.1	395.3	1.42	0.03	971.27
6/3/05 16:00	74.9	0.9	1.7	0.8	4	0.3	175.3	11.8	184.7	0.66	0	970.63
6/3/05 17:00	73.8	0.8	1.5	0.6	5.1	0.4	138.3	14.7	150.4	0.54	0	969.98
6/3/05 18:00	65	2	2.9	0.9	6.3	0.8	156	14.1	145.5	0.52	0	969.41
6/3/05 19:00	61.8	2.5	3.5	1	6.7	0.9	170.3	14.1	13	0.05	0	969.93
6/3/05 20:00	64.2	2.9	3.9	1.1	8.8	0.9	181.1	12.8	0	0	0	970.22
6/3/05 21:00	64.3	3.7	5	1.3	9.3	1.2	152.3	12	0	0	0	970.36
6/3/05 22:00	66.4	4	5.5	1.5	9.7	1.3	183.2	11.9	0	0	0	970.27
6/3/05 23:00	68.5	4.5	6.1	1.7	11.6	1.3	157.4	11.8	0	0	0	970.28
6/4/05 0:00	71.4	4.4	6.2	1.8	11	1.2	166.2	11.7	0	0	0	970.69
6/4/05 1:00	72.1	3.7	5.2	1.5	9.7	1.1	165.5	10.8	0	0	0	971
6/4/05 2:00	73.4	3.3	4.6	1.3	7.8	0.9	153.8	11.4	0	0	0	970.64
6/4/05 3:00	75.7	3.4	4.7	1.3	8.6	1	150.1	12.1	0	0	0	970.38
6/4/05 4:00	79.6	2.9	4	1.1	7.7	0.8	146.3	12.2	0.2	0	0	970.77
6/4/05 5:00	81.3	2.2	3.2	1	8.1	0.7	195.8	11.5	11.4	0.04	0	971.67
6/4/05 6:00	83.6	0.7	1.5	0.8	4.2	0.4	171.7	12.7	24.7	0.09	0	972.6
6/4/05 7:00	80.8	2.4	3.2	0.9	7.6	0.8	167.7	14.3	314.2	1.13	0	972.61
6/4/05 8:00	80	3.5	4.8	1.3	8.5	1	153.9	13	450.1	1.62	0	972.63
6/4/05 9:00	73.3	4.6	6.3	1.7	11.3	1.4	163.1	12.2	704.8	2.54	0	972.54
6/4/05 10:00	66.9	4.9	6.5	1.6	12.1	1.3	155.8	13.1	770	2.77	0	972.54
6/4/05 11:00	62.2	5	6.7	1.7	12.8	1.6	157.5	13.5	878.4	3.16	0	972.31
6/4/05 12:00	61.2	4.5	6.1	1.6	10	1.3	158.3	13.1	806.5	2.9	0	972.2
6/4/05 13:00	60.1	4.5	6	1.5	11.3	1.4	152.3	14.5	814.6	2.93	0	971.83
6/4/05 14:00	58.7	4.4	5.9	1.5	10.4	1.4	181.3	13.5	723.6	2.6	0	971.29
6/4/05 15:00	56.4	4	5.4	1.4	10	1.4	182.8	13.2	541.7	1.95	0	971.1
6/4/05 16:00	57.8	4.4	5.8	1.5	11.5	1.4	148.4	13.5	392.9	1.41	0	970.72
6/4/05 17:00	62.6	3.5	4.8	1.3	8.8	1.2	175.9	12.6	100.8	0.36	0	970.28
6/4/05 18:00	64.3	4	5.5	1.5	11.3	1.4	185.7	14.5	4.8	0.02	0	970.37
6/4/05 19:00	68.4	3.5	5	1.5	9.4	1.1	162.7	13.1	0.3	0	0	972.16
6/4/05 20:00	56.3	4.2	5.6	1.5	14	1.5	165.7	14	0	0	0	969.67
6/4/05 21:00	63.3	4.1	5.7	1.5	10.7	1.6	177.5	14.3	0	0	0	970.42
6/4/05 22:00	50.1	5.3	7.4	2	14.9	1.5	186.3	11.4	0	0	0	971.77
6/4/05 23:00	53.3	4	5.7	1.8	11	1.1	199	11.4	0	0	0	972.18
6/5/05 0:00	60.8	0.8	1.5	0.7	4.5	0.5	233.3	23.1	0	0	0	973.48
6/5/05 1:00	69.2	1	1.8	0.8	5.3	0.3	164.7	15.7	-0.1	0	0	974.89
6/5/05 2:00	64.5	2.2	3.2	1.1	6	0.6	149.7	11.4	0	0	0	975.79
6/5/05 3:00	70.4	2.1	3.1	1	6.7	0.8	156.8					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127								T _a (°C)	RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)			
6/5/05 15:00	0.04285	28.4	2.6	2.7	180	6.7	0.042	0	0.005	0.005		28.33	60	
6/5/05 16:00	0.04131	28	2.8	2.7	180	6.7	0.036	0.001	0.008	0.009		28.89	59	
6/5/05 17:00	0.02531	26.6	1.2	3.6	202.5	6.7	0.035	0.001	0.008	0.009		28.89	60	
6/5/05 18:00	0.02878	26.6	1.3	2.2	202.5	6.3	0.03	0.001	0.012	0.013		27.78	63	
6/5/05 19:00	0.03012	25.8	0.6	1.3	202.5	4	0.018	0.007	0.025	0.031		26.67	66	
6/5/05 20:00	0.034	24.9	0.8	1.3	135	4.5	0.009	0.012	0.027	0.038		25.00	74	
6/5/05 21:00	0.0354	24.5	0.2	1.8	112.5	5.4	0.003	0.022	0.026	0.048		23.89	80	
6/5/05 22:00	0.03805	24.8	0.5	3.1	202.5	8.5	0.001	0.021	0.024	0.045		23.89	82	
6/5/05 23:00	0.03856	24.7	0.4	3.1	157.5	8	0.002	0.006	0.021	0.026		23.33	85	
6/6/05 0:00	0.03992	24.9	0.5	4.9	180	11.6	0.022	0	0.009	0.01		24.44	79	
6/6/05 1:00	0.03876	24.5	0.9	7.6	202.5	12.5	0.03	0	0.005	0.005		25.56	75	
6/6/05 2:00	0.03091	23.7	0.3	8.5	202.5	13	0.028	0	0.007	0.007		25.00	76	
6/6/05 3:00	0.02688	23.4	0.5	8.5	202.5	12.5	0.028	0	0.005	0.005		24.44	78	
6/6/05 4:00	0.02738	23.2	0.5	10.3	202.5	14.3	0.026	0	0.007	0.007		23.89	78	
6/6/05 5:00	0.02725	22.7	0.4	7.6	202.5	13.4	0.015	0.005	0.017	0.022		23.33	79	
6/6/05 6:00	0.02504	22.5	0.5	3.6	180	7.2	0.01	0.011	0.022	0.033		23.33	78	
6/6/05 7:00	0.03003	22.8	1.6	6.7	202.5	11.6	0.02	0.005	0.017	0.022		25.56	66	
6/6/05 8:00	0.02779						0.032	0.003	0.011	0.013		26.67	59	
6/6/05 9:00	0.03285						0.041	0.001	0.007	0.008		28.33	51	
6/6/05 10:00	0.04037						0.047	0.002	0.009	0.01		30.00	48	
6/6/05 11:00	0.04153	28.1	2.4	4.9	202.5	7.6	0.049	0.002	0.011	0.013		30.56	49	
6/6/05 12:00	0.04357	30.1	2.2	4.5	202.5	9.9	0.052	0.002	0.01	0.012		30.56	48	
6/6/05 13:00	0.04694	30.4	4.1	3.6	180	6.9	0.055	0.001	0.009	0.01		31.67	46	
6/6/05 14:00	0.04748	32.3	3.1	3.6	202.5	4.9	0.053	0.004	0.011	0.015		31.67	46	
6/6/05 15:00	0.04375	30.9	2.1	4	202.5	8	0.053	0.005	0.009	0.013		32.78	44	
6/6/05 16:00	0.04687	30.6	1.9	2.7	202.5	7.2	0.047	0.007	0.013	0.019		32.22	46	
6/6/05 17:00	0.04661	29.7	2	3.6	202.5	8.5	0.048	0.025	0.007	0.032		32.22	48	
6/6/05 18:00	0.03711	28.6	1.1	4.5	202.5	8.9	0.041	0.049	0.009	0.058		30.56	50	
6/6/05 19:00	0.03736	27.7	0.7	4.9	202.5	8.9	0.041	0.053	0.01	0.063		28.89	58	
6/6/05 20:00	0.04534	26.7	1.3	4.5	202.5	8.9	0.038	0.04	0.011	0.051		27.78	65	
6/6/05 21:00	0.04887						0.04	0.017	0.01	0.026		27.22	68	
6/6/05 22:00	0.04848						0.043	0	0.007	0.005		26.11	69	
6/6/05 23:00	0.04681						0.04	0	0.007	0.003		25.00	71	
6/7/05 0:00	0.04174						0.039	0	0.005	0.002		23.89	72	
6/7/05 1:00	0.03836						0.033	0	0.006	0.005		23.33	73	
6/7/05 2:00	0.03571						0.027	0	0.006	0.006		22.22	79	
6/7/05 3:00	0.0312						0.022	0	0.006	0.006		22.22	84	
6/7/05 4:00	0.02017						0.019	0	0.006	0.006		22.22	86	
6/7/05 5:00	0.02115						0.015	0.001	0.01	0.011		22.78	86	
6/7/05 6:00	0.0193						0.014	0.002	0.011	0.013		23.89	83	
6/7/05 7:00	0.01773						0.016	0.003	0.011	0.014		25.00	79	
6/7/05 8:00	0.01536						0.024	0.003	0.009	0.011		26.67	74	
6/7/05 9:00	0.02038						0.028	0.002	0.009	0.011		28.33	68	
6/7/05 10:00	0.02257						0.031	0.001	0.006	0.007		29.44	65	
6/7/05 11:00	0.02627						0.032	0.001	0.005	0.006		30.56	60	
6/7/05 12:00	0.03039						0.03	0.003	0.008	0.011		30.56	60	
6/7/05 13:00	0.02451						0.034	0.004	0.01	0.014		31.67	53	
6/7/05 14:00	0.03171						0.038	0.004	0.007	0.011		32.78	49	
6/7/05 15:00	0.03569											32.78	48	
6/7/05 16:00	0.02959													
6/7/05 17:00	0.02743	29.5	1.1	8.9	202.5	13.4								
6/7/05 18:00	0.02676	28.9	0.7	7.6	180	13.4								
6/7/05 19:00	0.02761	28.2	0.9	7.6	202.5	12.1								
6/7/05 20:00	0.04332	27.3	0.8	8	202.5	12.5								
6/7/05 21:00	0.02848	26.8	0.2	8	202.5	12.5								
6/7/05 22:00	0.04069	26.2	1.4	6.3	202.5	13.4								
6/7/05 23:00	0.0317	25.1	0.5	6.7	202.5	13.9								
6/8/05 0:00	0.02769	24.6	0.6	6.7	202.5	12.1								
6/8/05 1:00	0.02496	24.1	0.6	7.2	202.5	12.1								
6/8/05 2:00	0.01841	23.5	0.7	8.9	202.5	13.4								
6/8/05 3:00	0.01726	23.1	0.5	10.7	202.5	14.8								
6/8/05 4:00	0.01958	22.7	0.5	9.8	202.5	14.3								
6/8/05 5:00	0.02304	22.3	0.3	11.6	202.5	14.3								
6/8/05 6:00	0.02026	21.8	0.5	9.4	202.5	14.3								
6/8/05 7:00	0.01475	21.8	0.7	8.5	202.5	12.5								
6/8/05 8:00	0.01868	23.4	2.3	5.8	180	11.6								
6/8/05 9:00	0.02518	25.4	2.3	4.5	180	13								
6/8/05 10:00	0.02857	27.5	1.9	4.5	180	11.6								
6/8/05 11:00	0.03357	29.4	2.3	4.5	180	12.1								
6/8/05 12:00	0.03486	30.7	2.2	5.8	180	12.1	0.042	0.003	0.015	0.018	10.5	33.33	54	
6/8/05 13:00	0.03776	30.8	1.6	4.5	180	11.2	0.043	0.003	0.014	0.017	22.2	33.89	52	
6/8/05 14:00	0.03559	31.6	2	6.7	180	12.5	0.04	0.003	0.013	0.016	22.1	33.89	52	
6/8/05 15:00	0.03306	31.7	1.2	5.8	202.5	12.1	0.037	0.002	0.012	0.015	20.6	33.33	53	
6/8/05 16:00	0.02487	30.9	1.2	7.2	202.5	12.5	0.039	0.002	0.011	0.013	15.6	33.33	54	
6/8/05 17:00	0.02411	30.4	1	7.2	202.5	12.1	0.045	0.002	0.01	0.012	17.5	32.78	54	
6/8/05 18:00	0.03195	29.5	1	8.9	202.5	12.5	0.041	0.001	0.012	0.013	19.6	31.67	58	
6/8/05 19:00	0.04032	28.7	1.1	8.9	202.5	14.8	0.044	0.001	0.008	0.009	20.1	30.00	64	
6/8/05 20:00	0.03448	27.7	0.8	8.9	202.5	16.5	0.041	0.001	0.008	0.009	18.4	29.44	65	
6/8/05 21:00	0.02881	27.2	0.4	10.7	202.5	15.6	0.038	0.001	0.007	0.008	17.9	28.89	66	
6/8/05 22:00	0.02125	26.8	0.4	9.4	202.5	14.8	0.033	0.001	0.006	0.007	18	28.33	68	
6/8/05 23:00	0.03145	26.6	0.2	7.2	202.5	14.8	0.026	0	0.006	0.007	14.8	27.78	71	
6/9/05 0:00	0.02647	26.3	0.6	8	202.5	13	0.021	0.001	0.005	0.006	15	27.22	70	
6/9/05 1:00	0.01761	25.9	1	7.6	202.5	13.9	0.027	0.001	0.006	0.007	7.3	24.44	69	
6/9/05 2:00	0.02932	23.7	3.8	3.6	90	13.4	0.041	0.001	0.005	0.006	6.3	22.22	70	
6/9/05 3:00	0.04686	20.9	0.6	7.2	22.5	15.6	0.04	0.001	0.004	0.005	7.9	20.56	82	
6/9/05 4:00	0.04328	19.8	2.2	4.5	202.5	12.1	0.036	0.003	0.006	0.008	7.7	19.44	89	
6/9/05 5:00	0.04054	18.7	0.9	9.8	22.5	18.8	0.033	0.002	0.007	0.009	9.4	20.00	88	
6/9/05 6:00	0.04281	19.3	0.8	5.8	247.5	17	0.027	0.004	0.012	0.016	10.1	20.00	86	
6/9/05 7:00	0.04095	20	0.6	4.5	225	16.1	0.018	0.007	0.016	0.024	5.7	20.00	86	
6/9/05 8:00	0.03054	20.4	0.4	4.5	22.5	14.3	0.024	0.005	0.01	0.016	5.4	20.56	83	
6/9/05 9:00	0.03469	20.9	1.4	5.8	22.5	14.3	0.026	0.002	0.012	0.014	6.3	21.67	76	
6/9/05 10:00	0.03595	21.4	0.8	4	225	8.9	0.017	0.003	0.019	0.022	18.1	22.22	77	
6/9/05 11:00	0.04022	22	0.4	3.6	202.5	8.9	0.017	0.006	0.026	0.031	11.6	22.78	75	
6/9/05 12:00	0.03412	21.8	2.3	6.7	112.5	14.3	0.028	0.006	0.015	0.021	16	25.56	74	
6/9/05 13:00	0.03541	25.3	3	8.5	202.5	16.5	0.029	0.005	0.015	0.02		28.89	66	
6/9/05 14:00	0.03262	27.2	2											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
6/5/05 15:00	222	0.89408	28.3	22.3	19.4	59	4.12	220	985.10	27.6	27	-0.6
6/5/05 16:00	198	1.34112	27.8	22.2	19.4	60	5.14	200	985.10	27.6	27.1	-0.5
6/5/05 17:00	199	1.34112	28.3	22.7	20	61	4.12	190	984.42	27.3	27	-0.3
6/5/05 18:00	181	0.89408	27.8	22.5	20	63	2.57	160	984.42	26.4	26.4	0
6/5/05 19:00	154	0.89408	26.7	22.6	20.6	69	2.57	110	984.42	25	25.7	0.7
6/5/05 20:00	126	0.89408	25	22.1	20.6	77	2.06	130	985.10	24.2	25.3	1.1
6/5/05 21:00	102	0	25	22.1	20.6	77	1.54	120	985.78	24.3	25	0.6
6/5/05 22:00	85	0.44704	25	22.1	20.6	77	2.57	150	985.78	24.2	24.9	0.7
6/5/05 23:00	141	0	23.9	21.7	20.6	82	2.06	140	985.78	23.2	24.2	0.9
6/6/05 0:00	175	0.89408	25.6	22.2	20.6	74	3.60	150	985.44	22.8	23.5	0.7
6/6/05 1:00	189	1.34112	25	22.1	20.6	77	4.63	170	985.78	23.4	23.8	0.4
6/6/05 2:00	191	1.34112	25	22.1	20.6	77	5.14	180	985.44	23.6	23.9	0.4
6/6/05 3:00	175	1.34112	23.3	21.5	20.6	85	4.12	140	985.10	23.2	23.6	0.5
6/6/05 4:00	188	1.34112	23.9	21.3	20	79	4.12	170	985.10	22.6	23.1	0.5
6/6/05 5:00	156	0.44704	23.3	21.1	20	82	3.09	170	985.44	22.2	22.8	0.6
6/6/05 6:00	162	0.44704	24.4	21.5	20	77	6.17	180	986.12	22.6	22.7	0.1
6/6/05 7:00	193	1.34112	26.1	20.7	17.8	60	6.17	180	986.45	23.8	23.7	-0.2
6/6/05 8:00	203	1.34112	27.2	21.1	17.8	57	3.60	180	986.45	24.6	24.4	-0.2
6/6/05 9:00	200	1.34112	28.9	21.3	17.2	49	4.12	180	986.45	26	25.5	-0.5
6/6/05 10:00	196	1.78816	29.4	21.4	17.2	48	6.17	210	986.79	26.9	26.3	-0.5
6/6/05 11:00	201	1.78816	30	21.6	17.2	46	6.17	210	986.79	28.1	27.4	-0.7
6/6/05 12:00	207	1.34112	31.1	22.5	18.3	46	6.17	170	986.12	29.1	28.1	-1
6/6/05 13:00	190	1.78816	31.7	22.4	17.8	43	3.60	220	985.10	30.1	29.1	-1.1
6/6/05 14:00	206	1.78816	32.2	22.8	18.3	44	4.12	220	984.42	30.8	29.8	-1
6/6/05 15:00	201	1.34112	32.2	23.2	18.9	45	4.12	190	983.75	30.9	30.1	-0.8
6/6/05 16:00	193	1.78816	32.2	23.4	19.4	47	6.69	190	983.07	30.8	30.2	-0.6
6/6/05 17:00	200	1.34112	31.1	23.1	19.4	50	5.14	170	982.73	30	29.8	-0.2
6/6/05 18:00	202	1.34112	30	23.2	20	55	5.14	180	982.73	28.7	28.9	0.2
6/6/05 19:00	183	1.78816	28.9	23.2	20.6	61	3.60	160	982.73	26.8	27.5	0.7
6/6/05 20:00	168	1.34112	27.2	22.7	20.6	67	3.09	150	983.41	25.7	26.5	0.8
6/6/05 21:00	173	1.78816	26.1	22.4	20.6	72	4.63	160	984.42	25	25.7	0.7
6/6/05 22:00	172	2.2352	25	21.3	19.4	71	5.66	150	984.42	24.3	24.8	0.6
6/6/05 23:00	168	2.2352	23.9	20.6	18.9	74	4.63	150	984.42	23.6	24	0.4
6/7/05 0:00	171	1.78816	23.3	19.8	17.8	71	4.12	160	984.42	22.7	23.1	0.4
6/7/05 1:00	173	0.89408	22.8	19.6	17.8	74	3.09	160	983.75	22	22.4	0.4
6/7/05 2:00	174	0.44704	22.8	20.3	18.9	79	3.09	190	983.75	21.6	21.9	0.4
6/7/05 3:00	182	0.89408	22.2	20.4	19.4	84	4.12	160	983.75	21.1	21.5	0.4
6/7/05 4:00	176	1.34112	22.2	20.4	19.4	84	5.14	150	983.07	21	21.2	0.3
6/7/05 5:00	172	1.34112	22.8	21	20	84	5.66	170	982.73	21.4	21.5	0.1
6/7/05 6:00	180	1.34112	23.3	21.1	20	82	6.17	180	982.73	22.2	22.1	-0.1
6/7/05 7:00	193	1.78816	25.6	22.6	21.1	76	7.20	190	983.07	24.1	23.7	-0.4
6/7/05 8:00	196	2.2352	27.2	23.4	21.7	72	5.14	180	983.41	25.9	25.2	-0.7
6/7/05 9:00	198	1.34112	28.9	23.9	21.7	65	5.14	200	983.07	27.7	26.8	-0.9
6/7/05 10:00	212	1.34112	29.4	24.4	22.2	65	4.63	210	983.07	27.7	27.4	-0.4
6/7/05 11:00	213	1.34112	30.6	24	21.1	57	7.20	190	983.07	27.5	27.3	-0.2
6/7/05 12:00	203	1.34112	31.1	23.8	20.6	54	7.20	200	982.73	27.7	27.5	-0.2
6/7/05 13:00	193	2.2352	32.2	23.8	20	49	5.66	210	982.05	30.1	29.2	-0.9
6/7/05 14:00	193	2.2352	33.3	24.4	20.6	47	7.20	190	981.38	31	30.4	-0.7
6/7/05 15:00	199	1.78816	31.1	24.5	21.7	57	9.26	150	980.36	31.3	30.7	-0.6
6/7/05 16:00			31.7	24.3	21.1	53	7.20	190	979.68	31.2	30.8	-0.4
6/7/05 17:00			31.7	23.3	19.4	48	7.72	180	979.68	30.3	30.2	-0.1
6/7/05 18:00			30.6	22.7	18.9	50	7.72	180	980.02	29	29.3	0.3
6/7/05 19:00			28.9	22.2	18.9	55	4.63	160	980.36	27.5	28.1	0.6
6/7/05 20:00			27.8	22.2	19.4	60	4.12	160	980.70	26.1	27	0.9
6/7/05 21:00			27.2	23.4	21.7	72	5.14	160	981.71	25.6	26.4	0.8
6/7/05 22:00			27.2	23.7	22.2	74	6.17	170	982.05	24.7	25.3	0.6
6/7/05 23:00			26.7	23.6	21.7	76	5.66	170	982.05	24.7	25.1	0.5
6/8/05 0:00			26.1	23.4	22.2	79	6.17	180	981.38	24.8	25.2	0.4
6/8/05 1:00			25	23.1	22.2	85	5.66	170	981.04	24.4	24.7	0.3
6/8/05 2:00			25	23.1	22.2	85	4.63	180	980.36	24	24.3	0.3
6/8/05 3:00			24.4	22.2	21.1	82	5.14	180	980.70	23.5	23.8	0.3
6/8/05 4:00			23.9	21.7	20.6	82	4.63	170	980.70	23.2	23.5	0.3
6/8/05 5:00			23.9	21.3	20	79	5.66	180	981.38	22.9	23.1	0.2
6/8/05 6:00			24.4	21.9	20.6	79	6.69	180	981.38	23.5	23.4	-0.1
6/8/05 7:00			26.7	23.3	21.7	74	6.17	200	981.71	24.9	24.5	-0.4
6/8/05 8:00			28.9	24.2	22.2	67	7.20	190	981.38	26.7	26.2	-0.6
6/8/05 9:00			30.6	24.7	22.2	61	6.17	200	981.38	28.2	27.5	-0.7
6/8/05 10:00			31.7	25	22.2	57	8.23	200	981.38	29.2	28.5	-0.7
6/8/05 11:00			33.3	25.8	22.8	54	6.69	200	981.04	30.2	29.5	-0.6
6/8/05 12:00	211	1.78816	32.8	25.6	22.8	56	6.69	200	980.70	31.3	30.6	-0.8
6/8/05 13:00	203	2.2352	32.8	25.6	22.8	56	6.69	190	980.36	31.9	31.3	-0.7
6/8/05 14:00	204	2.2352	34.4	25.7	22.2	49	8.44	180	980.02	32.5	31.7	-0.7
6/8/05 15:00	197	2.2352	33.9	25.5	22.2	50	8.75	200	980.02	32.4	31.9	-0.6
6/8/05 16:00	190	2.2352	33.3	25.4	22.2	52	7.72	170	980.02	32	31.6	-0.4
6/8/05 17:00	195	2.68224	32.2	24.8	21.7	54	8.23	190	979.68	31.1	31	-0.1
6/8/05 18:00	185	2.68224	31.1	24.8	22.2	59	7.20	180	979.68	30	30.1	0.2
6/8/05 19:00	187	2.68224	30	24.5	22.2	63	8.23	180	979.34	28.8	29.1	0.4
6/8/05 20:00	185	2.2352	29.4	24.4	22.2	65	6.17	170	980.36	28	28.5	0.4
6/8/05 21:00	181	1.78816	28.9	23.9	21.7	65	5.14	170	981.38	27.5	28	0.5
6/8/05 22:00	179	1.78816	28.3	24.1	22.2	70	4.63	170	982.05	26.8	27.4	0.6
6/8/05 23:00	176	0.89408	27.8	23.6	21.7	69	3.60	160	982.05	26.2	26.8	0.6
6/9/05 0:00	144	1.78816	26.7	23.3	21.7	74	6.17	30	983.41	23.7	24.1	0.3
6/9/05 1:00	68	3.12928	22.8	19	16.7	69	9.77	50	984.42	21.2	21.3	0.1
6/9/05 2:00	68	3.57632	22.2	18.8	16.7	71	5.66	50	985.10	19.1	19.4	0.2
6/9/05 3:00	72	3.12928	19.4	18.7	18.3	93	4.63	340	985.78	18.7	18.9	0.2
6/9/05 4:00	54	3.57632	20	18.6	17.8	87	6.17	50	985.78	18.4	18.5	0.1
6/9/05 5:00	76	1.78816	20.6	18.5	17.2	81	5.14	70	986.45	18.4	18.6	0.2
6/9/05 6:00	67	1.34112	21.1	18.4	16.7	76	4.63	90	986.45	18.6	18.8	0.2
6/9/05 7:00	41	1.78816	21.7	18.9	17.2	76	3.60	30	987.13	19.9	19.2	0.2
6/9/05 8:00	63	2.2352	22.6	19.3	17.2	71	6.17	90	986.79	19	19.3	0.3
6/9/05 9:00	139	1.78816	23.3	19.4	17.2	69	3.60	140	986.12	19.6	20.1	0.4
6/9/05 10:00	222	0.89408	23.9	19.6	17.2	66	3.60	200	985.78	20.3	20.6	0.3
6/9/05 11:00	155	2.68224	23.9	21	19.4	76	6.17	150	983.41	20.9	21.3	0.4
6/9/05 12:00	152	1.78816	29.4	24.1	21.7	63	5.66	180	982.05	22.8	22.8	0
6/9/05 13:00	197	1.78816	30	24.2	21.7	61	7.72	180	981.71	24.9	24.6	-0.3
6/9/05 14:00	187	2.2352	31.1	24.5	21.7	57	7.72					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
6/5/05 15:00	65.9	2.3	3.3	1	6.2	0.6	179.4	10.8	455.3	1.64	0	978.39
6/5/05 16:00	65.5	2.4	3.4	1.1	5.7	0.6	171.2	12.4	442	1.59	0	978.25
6/5/05 17:00	67	1.9	2.9	1	4.8	0.6	173.1	12.2	286.8	1.03	0	977.89
6/5/05 18:00	71.1	1.3	2.2	0.8	4.7	0.5	154	11.9	129.4	0.47	0	977.95
6/5/05 19:00	75.3	0.3	1.4	1.1	2.5	0.2	167.1	8.7	14.3	0.05	0	977.93
6/5/05 20:00	78.8	0.5	1.8	1.3	3.4	0.3	141.8	7.7	-0.1	0	0	978.17
6/5/05 21:00	77.9	1.3	2.3	1	3.6	0.3	147.8	8.6	0	0	0	978.93
6/5/05 22:00	79.3	0.9	2	1.2	3.2	0.3	136.3	8.2	0	0	0	978.99
6/5/05 23:00	83.2	0.5	1.7	1.2	3.1	0.3	110.9	7.5	0	0	0	979.16
6/6/05 0:00	87.2	1.2	2.3	1.1	3.8	0.4	127.1	8.3	0	0	0	978.81
6/6/05 1:00	83.7	1.9	2.7	0.8	5.4	0.6	160	12.6	0	0	0	978.87
6/6/05 2:00	82.3	1.7	2.5	0.8	6.2	0.6	166.8	13.8	0	0	0	978.44
6/6/05 3:00	83.5	1.6	2.5	0.9	5.2	0.6	159.7	12.6	0	0	0	978.3
6/6/05 4:00	85.4	2.2	3.2	1.1	7	0.7	179.8	12	0.1	0	0	978.3
6/6/05 5:00	83.9	1.7	2.8	1.1	4.7	0.5	180.4	9.1	24.3	0.09	0	978.6
6/6/05 6:00	83.4	1.8	2.8	1	6.4	0.5	168.2	10	151.3	0.54	0	978.55
6/6/05 7:00	75.6	3.2	4.6	1.4	7.3	0.9	164.8	11.1	299.4	1.08	0	979.27
6/6/05 8:00	68.9	2.8	4	1.2	7.1	0.8	167.7	10.8	340.8	1.23	0	979.6
6/6/05 9:00	62.3	2.1	3.1	1	5.2	0.6	166.8	12.3	520.6	1.87	0	979.54
6/6/05 10:00	60.3	1.3	1.9	0.6	4.5	0.5	157.6	15.2	438.9	1.58	0	979.7
6/6/05 11:00	58.9	2.8	3.9	1.1	6.8	0.8	156.6	14.2	733.4	2.64	0	979.97
6/6/05 12:00	55.9	3.3	4.5	1.2	7.6	1	175	16.2	939.8	3.38	0	979.57
6/6/05 13:00	53.8	2.7	3.7	1.1	6.9	0.9	165.2	16	907.3	3.27	0	978.86
6/6/05 14:00	51.4	2.2	3	0.8	5.9	0.8	161.8	19.8	826.6	2.98	0	977.94
6/6/05 15:00	50.5	2.4	3.5	1	6.9	0.9	164.7	15.9	697.4	2.51	0	977.21
6/6/05 16:00	51.4	2.3	3.2	0.9	6.1	0.8	153.2	16.4	524	1.89	0	976.6
6/6/05 17:00	53.1	2.2	3.4	1.1	6	0.7	193.3	12.6	337.1	1.21	0	976.23
6/6/05 18:00	59	1.9	2.9	1.1	4.9	0.6	166.6	10.9	151.6	0.55	0	976.14
6/6/05 19:00	65.5	1.5	2.5	1	5.3	0.5	150	10.7	16.4	0.06	0	975.94
6/6/05 20:00	70.3	1.2	2.1	0.9	4.1	0.5	158	12	0	0	0	976.16
6/6/05 21:00	75.8	1.4	2.4	0.9	4.1	0.5	157.8	11.8	0	0	0	977.15
6/6/05 22:00	79.5	1.8	2.8	1	6.1	0.6	145.1	11.2	0	0	0	977.53
6/6/05 23:00	78.9	2	2.9	0.9	6.1	0.7	150.3	12.6	0	0	0	977.47
6/7/05 0:00	79.7	2.3	3.3	1	6.1	0.8	152.5	13.5	0	0	0	977.64
6/7/05 1:00	79.8	1.7	2.6	0.9	5	0.6	156.1	12.3	0	0	0	977.18
6/7/05 2:00	81.2	1.6	2.5	0.9	4.9	0.6	167.4	13.6	0	0	0	976.88
6/7/05 3:00	85.1	1.4	2.3	0.9	5.3	0.5	154.2	11.8	0	0	0	976.63
6/7/05 4:00	89.1	2	2.9	0.9	5.5	0.7	173	12.7	0.6	0	0	975.98
6/7/05 5:00	91.1	1.9	2.7	0.9	5.7	0.7	164.8	14	49.6	0.18	0	975.74
6/7/05 6:00	89.9	2.2	3.1	0.9	6.8	0.8	164.6	15.2	119	0.43	0	975.28
6/7/05 7:00	84.4	3.4	4.6	1.3	8.9	0.9	182.2	12.4	322.3	1.16	0	975.55
6/7/05 8:00	79.5	3.5	4.8	1.4	9.4	1	161.6	14	528.5	1.9	0	976.05
6/7/05 9:00	73.8	3.2	4.4	1.2	8.8	0.9	193.1	14.2	644.8	2.32	0	976.21
6/7/05 10:00	73	3	4.3	1.3	8.5	0.8	183	11.9	412.8	1.49	0	976.35
6/7/05 11:00	71.8	2.9	4.1	1.3	7.2	0.8	177.6	11.3	307.8	1.11	0	976.59
6/7/05 12:00	71.8	2.8	4	1.2	8.1	0.9	163	11.7	321.1	1.16	0	976.19
6/7/05 13:00	62.8	3.6	4.9	1.3	8	1.1	152	13.3	854.2	3.08	0	975.65
6/7/05 14:00	55.5	3.4	4.7	1.2	9.2	1.1	183.3	15.1	689.2	2.48	0	975.03
6/7/05 15:00	53.1	3.8	5.2	1.4	9.8	1.2	159.3	14.1	631.6	2.27	0	974.26
6/7/05 16:00	53.2	4	5.7	1.7	11.1	1.3	193.1	13.4	534.1	1.92	0	973.25
6/7/05 17:00	55	3.8	5.4	1.6	10	1.1	166.2	12.1	340.3	1.23	0	973.03
6/7/05 18:00	56.4	3	4.3	1.3	9.2	1	160.6	11.9	148.3	0.53	0	973.43
6/7/05 19:00	59.8	2.2	3.2	1	6.1	0.7	175.7	12	17.6	0.06	0	973.57
6/7/05 20:00	65.7	1.2	2.1	0.9	3.9	0.5	160.4	13.2	0	0	0	973.93
6/7/05 21:00	69.8	1.3	2.3	0.9	4.6	0.5	154.8	12.3	0	0	0	974.76
6/7/05 22:00	74.7	1.8	2.8	1	5.1	0.6	148.3	11.9	0	0	0	975.22
6/7/05 23:00	82.2	1.7	2.5	0.9	5.1	0.6	162	12.9	0	0	0	975.27
6/8/05 0:00	83.8	2.2	3.1	0.9	6	0.7	170.3	12.9	0	0	0	974.84
6/8/05 1:00	86.1	2.5	3.6	1.1	5.9	0.7	179.4	11.9	0	0	0	974.29
6/8/05 2:00	88.3	3.1	4.5	1.4	8.2	0.9	161.7	10.5	0	0	0	973.67
6/8/05 3:00	89.7	3.2	4.6	1.4	7.9	0.8	156.4	10.4	0	0	0	973.5
6/8/05 4:00	89.5	2.6	3.9	1.3	6.4	0.7	161.3	11	0.3	0	0	973.62
6/8/05 5:00	89.8	2.4	3.4	1	6.5	0.8	181	12.2	32.8	0.12	0	974
6/8/05 6:00	86.4	3	4.2	1.2	7.3	0.9	158.1	12.1	173.9	0.63	0	974.25
6/8/05 7:00	82.4	3.6	5.2	1.6	8.3	1.1	170.1	11.4	363.4	1.31	0	974.31
6/8/05 8:00	77.2	4.5	6.4	1.9	10.6	1.3	176.5	11.2	547.3	1.97	0	974.35
6/8/05 9:00	73.1	4.8	6.8	2	11	1.3	181.3	10.8	695.3	2.5	0	974.33
6/8/05 10:00	69.9	4.4	6.2	1.8	10.1	1.2	175.8	12.6	740.4	2.67	0	974.37
6/8/05 11:00	67.3	3.9	5.5	1.7	9.8	1.1	179.2	11.3	731.4	2.63	0	974.34
6/8/05 12:00	63.2	4.4	6.3	1.8	10.9	1.2	176.2	11.6	905.4	3.26	0	973.81
6/8/05 13:00	60.3	4.1	5.7	1.6	10.8	1.2	171	13.4	739.8	2.66	0	973.64
6/8/05 14:00	58.2	3.8	5.3	1.5	9.1	1.1	165.2	13.8	768.1	2.77	0	973.54
6/8/05 15:00	58.3	3.8	5.2	1.4	9.5	1.1	193.9	12.6	669.5	2.41	0	973.36
6/8/05 16:00	58.5	3.9	5.4	1.5	8.9	1.1	185.6	13.3	464.5	1.67	0	973.12
6/8/05 17:00	61.3	3.6	4.9	1.3	8.3	1.2	150.5	12.9	288.2	1.04	0	972.93
6/8/05 18:00	64.4	3.5	4.9	1.3	9.2	1.1	151.4	12.5	129.6	0.47	0	972.93
6/8/05 19:00	68.1	3.5	5	1.4	8.9	1.1	153	12.1	13.8	0.05	0	972.69
6/8/05 20:00	70.9	3.3	4.6	1.3	7.9	1.1	153.7	11.8	0	0	0	973.4
6/8/05 21:00	72.1	2.4	3.4	1.1	6.7	0.8	151.3	11.8	0	0	0	974.71
6/8/05 22:00	73.8	1.5	2.5	1	5.1	0.5	176.8	10.8	0	0	0	975.45
6/8/05 23:00	76.4	1.4	2.2	0.9	4	0.5	153.1	12.7	0	0	0	975.47
6/9/05 0:00	74.4	3.7	5	1.4	11.8	1.2	51.2	13.3	0	0	0	976.73
6/9/05 1:00	73.1	4.1	5.4	1.4	12.6	1.3	48.8	14.9	0	0	0	978.04
6/9/05 2:00	86.9	3.8	5.2	1.4	10.9	1.2	42	13.4	0	0	0.01	978.47
6/9/05 3:00	90.8	3.5	4.8	1.3	11.3	1.1	35.5	13.8	0	0	0.03	978.91
6/9/05 4:00	93.6	3.4	4.7	1.3	10.1	1.1	61.3	13.5	0	0	0.03	979.08
6/9/05 5:00	92.5	3	4.3	1.3	8.2	1.1	66.8	13.6	2.3	0.01	0.01	979.47
6/9/05 6:00	90.3	2.9	4.1	1.2	7.5	0.9	64.5	13.4	13.3	0.05	0	979.96
6/9/05 7:00	98	2.8	3.9	1.2	9.8	1	65.3	14.4	12.9	0.05	0	980.54
6/9/05 8:00	86.6	2.6	3.9	1.3	7.8	1.1	92.5	15.3	25.1	0.09	0.02	979.59
6/9/05 9:00	83.8	3.5	4.9	1.5	8.9	1	141.7	11.2	16.8	0.06	0.01	978.99
6/9/05 10:00	83.3	3.3	4.7	1.3	9.5	0.9	185.2	13.7	27.9	0.1	0	978.58
6/9/05 11:00	82.8	2.7	4	1.3	7.5	0.8	136.1	12.6	81.3	0.29	0	977.07
6/9/05 12:00	83.2	2.1	2.8	0.8	5.2	0.6	161.8	13.7	192.6	0.69	0	976.26
6/9/05 13:00	82.5	1.9	2.7	0.9	4.8	0.5	179.1	11.8	355.1	1.28	0	975.54
6/9/05 14:00	75.4	1.7	2.4	0.7	4.5	0.6	143.3	15.5	531.8	1.91	0	975.39
6/9/05 15:00	68.6	1.9	2.8	0.8	5.6	0.7	161.1	14.3	482.3	1.74	0	975.18
6/9/05 16:00	64.5	2.7	3.8	1.1	7	0.8	153	13.5	386.6	1.39	0	974.59
6/9/05 17:00	61.8	2.7	3.8	1.1	7.3	0.8	155.1	12.4	333	1.2	0	974.27
6/9/05 18:00	63.											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
6/10/05 6:00	0.04905	20.1	2.2	1.3	225	5.4						20.00	90		
6/10/05 7:00	0.04896	22.2	3	4.9	112.5	12.5						21.67	85		
6/10/05 8:00	0.03657	21.1	3.3	7.2	202.5	16.1						23.89	79		
6/10/05 9:00	0.02611	22	2.8	8.9	202.5	14.3									
6/10/05 10:00	0.02695	24.7	5.2	8	202.5	13.4	0.028	0.006	0.089	0.095		28.89	63		
6/10/05 11:00	0.02858	27.7	2.9	8.5	180	15.6	0.029	0.005	0.049	0.054		29.44	62		
6/10/05 12:00	0.02771	28.3	2.6	5.8	180	12.5	0.03	0.005	0.049	0.054		31.11	55		
6/10/05 13:00	0.02432	28.9	2.5	6.3	202.5	13	0.03	0.005	0.044	0.048		31.11	51		
6/10/05 14:00	0.0253	30	1.9	8	202.5	13	0.031	0.005	0.037	0.041		32.22	47		
6/10/05 15:00	0.02438	29.1	1.6	7.6	202.5	13	0.029	0.005	0.031	0.036		32.22	46		
6/10/05 16:00	0.02882	29.7	1.4	5.4	202.5	10.7	0.031	0.003	0.027	0.03		31.67	49		
6/10/05 17:00	0.02961	29.2	2.4	7.6	202.5	14.3	0.03	0.003	0.026	0.028		31.11	48		
6/10/05 18:00	0.02652	28.3	0.9	7.2	202.5	13.4	0.029	0.003	0.026	0.028		29.44	53		
6/10/05 19:00	0.03409	27.7	0.6	4	202.5	9.8	0.022	0.002	0.03	0.033		28.89	56		
6/10/05 20:00	0.02817	27.2	0.6	5.4	202.5	8.9	0.013	0.005	0.037	0.042		27.22	63		
6/10/05 21:00	0.01787	26.7	0.5	4	202.5	9.4	0.005	0.009	0.041	0.05		26.11	70		
6/10/05 22:00	0.03201	26.3	0.5	4.9	202.5	10.7	0.021	0.002	0.031	0.033		26.67	66		
6/10/05 23:00	0.03638	25.9	0.8	4.9	157.5	13	0.029	0.002	0.023	0.025		26.67	66		
6/11/05 0:00	0.03622	25.4	0.5	5.8	180	13.4	0.032	0.001	0.021	0.022		26.67	68		
6/11/05 1:00	0.03884	24.9	0.8	7.2	202.5	14.8	0.033	0.001	0.02	0.021		26.11	70		
6/11/05 2:00	0.03791	24.4	0.5	6.3	180	13	0.03	0.001	0.02	0.021		25.56	73		
6/11/05 3:00	0.03544	23.7	1.1	5.4	202.5	11.6	0.033	0.001	0.021	0.022		23.33	75		
6/11/05 4:00	0.02918	22.8	1.2	0.9	112.5	5.8	0.028	0.002	0.024	0.026		22.22	80		
6/11/05 5:00	0.03036	23.1	0.6	3.6	135	10.3	0.023	0.001	0.023	0.024		24.44	78		
6/11/05 6:00	0.02889	22.8	2.3	7.6	202.5	19.2	0.037	0.001	0.02	0.021		21.11	86		
6/11/05 7:00	0.03883	18.8	4.4	4.5	22.5	17.4	0.053	0.003	0.037	0.04		17.78	91		
6/11/05 8:00	0.04402	17.3	0.7	2.7	270	8.5	0.047	0.006	0.047	0.053		17.78	93		
6/11/05 9:00	0.05442	18.2	3.5	2.7	225	7.2	0.045	0.001	0.03	0.031		20.00	87		
6/11/05 10:00	0.05291	23.1	5	2.7	112.5	7.6	0.047	0.002	0.022	0.024		22.22	79		
6/11/05 11:00	0.04493	25.7	9.4	4.9	112.5	10.3	0.046	0.002	0.02	0.022		26.11	67		
6/11/05 12:00	0.05064	32.4	4.1	1.8	112.5	7.2	0.053	0.001	0.015	0.016		28.33	60		
6/11/05 13:00	0.05412	30.9	7.9	3.1	202.5	8.5	0.051	0.002	0.015	0.017		29.44	58		
6/11/05 14:00	0.0477	29.4	5.6	4.5	202.5	8.5	0.047	0.001	0.012	0.013		30.56	55		
6/11/05 15:00	0.04918	28.4	2.1	4.9	202.5	9.4	0.045	0.001	0.011	0.012		30.56	54		
6/11/05 16:00	0.04659	28.6	1.9	4.9	202.5	9.4	0.043	0.002	0.014	0.016		30.56	54		
6/11/05 17:00	0.03937	28.9	1.6	4	202.5	8.9	0.045	0.001	0.013	0.014		30.56	55		
6/11/05 18:00	0.05077	28.6	1.4	2.7	202.5	7.6	0.039	0.002	0.015	0.017		29.44	58		
6/11/05 19:00	0.04819	28	0.9	2.7	202.5	5.8	0.024	0.005	0.027	0.031		28.33	65		
6/11/05 20:00	0.0424	27.2	1.4	3.1	202.5	8.9	0.029	0.001	0.018	0.018		27.22	69		
6/11/05 21:00	0.04777	25.6	1.1	3.6	112.5	8	0.035	0.001	0.018	0.019		26.67	73		
6/11/05 22:00	0.04304	25	0.5	4	112.5	8.9	0.026	0.001	0.022	0.023		25.56	77		
6/11/05 23:00	0.04176	24.4	0.7	4.5	135	10.3	0.028	0.001	0.02	0.021		25.00	77		
6/12/05 0:00	0.03704	23.7	0.8	4.5	157.5	11.6	0.029	0.001	0.015	0.016		25.00	78		
6/12/05 1:00	0.03375	23.1	0.6	4	180	9.8	0.026	0.001	0.015	0.016		24.44	81		
6/12/05 2:00	0.03149	22.8	0.4	4.9	180	11.2	0.022	0.001	0.015	0.016		23.89	84		
6/12/05 3:00	0.03157	22.9	0.4	6.7	202.5	11.6	0.02	0.001	0.015	0.016		23.33	86		
6/12/05 4:00	0.03141	23.3	0.8	8	202.5	12.1	0.013	0.002	0.017	0.019		22.78	89		
6/12/05 5:00	0.02754	22.8	1	8.5	202.5	11.2	0.007	0.003	0.017	0.02		22.22	92		
6/12/05 6:00	0.02239	22.1	0.6	6.3	202.5	9.8	0.012	0.002	0.017	0.019		23.33	88		
6/12/05 7:00	0.0153	22.1	1.1	3.1	202.5	10.3	0.017	0.002	0.014	0.017		25.00	81		
6/12/05 8:00	0.01423	23.5	3.8	1.8	180	5.4	0.026	0.002	0.013	0.015		27.22	73		
6/12/05 9:00	0.02424	27.7	6.7	1.3	202.5	4.9	0.036	0.001	0.01	0.012		28.89	67		
6/12/05 10:00	0.03447	28.4	3.6	4.5	202.5	8.5	0.042	0.001	0.01	0.011		30.00	61		
6/12/05 11:00	0.04215	29	2.9	6.3	202.5	11.6	0.043	0.001	0.007	0.008		31.67	57		
6/12/05 12:00	0.04213	30.7	3.1	7.2	202.5	12.1	0.041	0.001	0.011	0.011		32.22	53		
6/12/05 13:00	0.04129	32.1	3.7	6.7	202.5	13.4	0.046	0.001	0.007	0.008		31.67	50		
6/12/05 14:00	0.04794	30.9	3.1	8.9	202.5	15.6	0.046	0.001	0.007	0.008		32.22	49		
6/12/05 15:00	0.04876	30.6	2	5.8	202.5	14.3	0.043	0.001	0.009	0.01		31.11	51		
6/12/05 16:00	0.04438	29.9	1.6	6.3	202.5	13	0.039	0.001	0.012	0.013		28.89	59		
6/12/05 17:00	0.03862	28	6.9	4.9	202.5	13	0.041	0.002	0.011	0.012		23.33	80		
6/12/05 18:00	0.0379	22.1	3.4	2.7	202.5	8	0.04	0.002	0.012	0.014		20.56	90		
6/12/05 19:00	0.03931	18.9	2.4	3.6	225	7.6	0.041	0.002	0.013	0.015		19.44	90		
6/12/05 20:00	0.04484	17.5	0.5	6.3	45	13.4	0.041	0.002	0.014	0.016		19.44	89		
6/12/05 21:00	0.04535	18.1	1.7	6.3	45	26.4	0.047	0.002	0.015	0.017		18.33	91		
6/12/05 22:00	0.04978	16.6	1.6	3.6	225	11.6	0.047	0.006	0.021	0.027		17.78	94		
6/12/05 23:00	0.05478	17.2	1.6	3.1	202.5	12.5	0.049	0	0.017	0.016		18.33	93		
6/13/05 0:00	0.05206	16.7	0.6	5.4	112.5	17	0.042	0	0.017	0.016		18.33	93		
6/13/05 1:00	0.04982	16.7	0.2	6.7	112.5	11.6	0.042	0.006	0.02	0.026		18.33	93		
6/13/05 2:00	0.04918	16.9	0.5	6.7	112.5	13.4	0.042	0.022	0.021	0.043		18.33	92		
6/13/05 3:00	0.04945	17.4	0.4	5.8	112.5	11.6	0.037	0.039	0.017	0.056		18.33	92		
6/13/05 4:00	0.04216	17.4	0.7	4.9	157.5	13.9	0.03	0	0.015	0.009		18.89	91		
6/13/05 5:00	0.04596	17.9	0.9	4.5	202.5	9.8	0.042	0.002	0.018	0.02		18.33	93		
6/13/05 6:00	0.04133	18.2	1.2	3.1	180	8.9	0.014	0.005	0.02	0.025		19.44	92		
6/13/05 7:00	0.03393	19.8	2.7	6.3	202.5	11.2	0.011	0.004	0.024	0.027		22.22	87		
6/13/05 8:00	0.02159	21.7	2.1	8.5	180	13.9	0.013	0.003	0.016	0.019		24.44	81		
6/13/05 9:00	0.02247	23.1	1.1	4.9	180	12.5	0.017	0.004	0.013	0.017		26.67	75		
6/13/05 10:00	0.02353	24.6	1.3	4.5	180	12.5	0.024	0.003	0.011	0.014		27.78	71		
6/13/05 11:00	0.023	26.3	4.3	2.7	0	8	0.035	0	0.005	0.005		29.44	67		
6/13/05 12:00	0.02837	30.7	3.3	2.7	0	8	0.04	0.001	0.005	0.006		31.11	60		
6/13/05 13:00	0.03347	32.1	2.9	3.1	0	8.9	0.041	0	0.005	0.005		31.11	60		
6/13/05 14:00	0.03933	31.6	3.6	3.1	0	8	0.045	0	0.005	0.005		30.56	62		
6/13/05 15:00	0.0417	31.9	3.1	2.7	292.5	6.7	0.046	0.001	0.006	0.006		30.56	60		
6/13/05 16:00	0.04265	32.3	2.9	2.7	292.5	5.8	0.043	0.001	0.007	0.008		29.44	64		
6/13/05 17:00	0.04259	28.7	3.5	2.2	292.5	6.3	0.037	0.001	0.009	0.01		28.33	67		
6/13/05 18:00	0.04478	26.8	0.6	1.3	292.5	5.4	0.039	0.001	0.008	0.009		27.22	63		
6/13/05 19:00	0.05406	26.6	1.4	2.2	292.5	6.3	0.027	0.001	0.017	0.019		26.11	64		
6/13/05 20:00	0.0422	25.4	1.6	2.2	180	7.2	0.017	0.001	0.024	0.024		25.00	80		
6/13/05 21:00	0.03162	23.6	1.1	4	180	8	0.03	0	0.011	0.012		24.44	79		
6/13/05 22:00	0.03118	22.													

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
6/10/05 6:00	165	1.34112	20.6	19.5	18.9	90	5.14	160	982.05	19.3	19.4	0.1
6/10/05 7:00	176	1.78816	22.2	20.1	18.9	82	4.63	180	982.73	19.9	20	0.1
6/10/05 8:00	189	1.78816	24.4	21.9	20.6	79	5.66	170	982.39	21.3	21.3	0
6/10/05 9:00			27.8	23.2	21.1	67	10.29	180	982.05	23.4	23.4	0
6/10/05 10:00	208	2.2352	29.4	23.7	21.1	61	7.72	200	982.73	25.3	25.3	-0.5
6/10/05 11:00	205	1.34112	29.4	23.7	21.1	61	6.17	200	983.07	27.6	26.7	-0.9
6/10/05 12:00	201	1.78816	30.6	23.4	20	53	6.17	180	982.73	29	28.2	-0.8
6/10/05 13:00	191	2.2352	31.7	23.3	19.4	48	7.72	160	981.38	28.6	29	-0.6
6/10/05 14:00	191	2.68224	32.2	23.2	18.9	45	7.20	190	981.04	29.4	29	-0.4
6/10/05 15:00	193	2.2352	32.8	23.6	19.4	45	8.23	180	980.70	30.1	29.7	-0.5
6/10/05 16:00	187	2.68224	31.1	22.8	18.9	48	7.20	170	980.36	29.6	29.5	-0.2
6/10/05 17:00	196	2.2352	30.6	22.7	18.9	50	6.17	180	980.36	28.8	28.9	0.2
6/10/05 18:00	171	2.2352	30	22.5	18.9	51	4.63	170	980.02	27.6	28.1	0.5
6/10/05 19:00	189	0.89408	27.8	22.2	19.4	60	1.54	140	981.04	26.1	27.2	1.1
6/10/05 20:00	157	0.89408	25.6	21.9	20	71	2.57	140	981.38	24.3	26.5	2.2
6/10/05 21:00	167	0.89408	25	21.7	20	74	2.57	140	981.71	25	26.2	1.1
6/10/05 22:00	163	2.2352	26.1	22	20	69	4.12	160	981.38	23.9	24.8	0.9
6/10/05 23:00	174	1.78816	26.1	22	20	69	4.63	160	981.04	23.9	24.6	0.7
6/11/05 0:00	175	2.2352	25.6	22.2	20.6	74	4.63	150	980.36	23.4	24.1	0.8
6/11/05 1:00	180	1.78816	25.6	22.2	20.6	74	5.14	160	980.70	23.7	24.2	0.5
6/11/05 2:00	208	1.78816	25	22.1	20.6	77	1.54	150	981.04	20.8	20.9	0.1
6/11/05 3:00	90	1.78816	22.8	20.3	18.9	79	3.09	350	981.04	19.1	19.4	0.3
6/11/05 4:00	144	1.34112	23.3	21.8	21.1	88	4.12	140	980.36	19.6	20	0.4
6/11/05 5:00	185	1.34112	24.4	22.2	21.1	82	4.63	170	981.38	21.4	21.8	0.3
6/11/05 6:00	276	4.02336	18.9	17.9	17.2	90	7.20	310	984.08	18.9	19	0.2
6/11/05 7:00	315	3.57632	18.3	17.6	17.2	93	3.60	310	985.44	16.6	16.9	0.3
6/11/05 8:00	121	1.34112	18.9	17.9	17.2	90	2.06	50	984.08	17.6	17.9	0.3
6/11/05 9:00	118	2.2352	20.6	19.1	18.3	87	6.69	120	983.75	18.9	18.4	-0.5
6/11/05 10:00	144	2.68224	24.4	20.8	18.9	72	7.20	140	982.39	21.5	20.6	-1
6/11/05 11:00	146	1.78816	27.2	22.4	20	65	4.12	150	982.73	24.7	23.5	-1.2
6/11/05 12:00	178	1.78816	28.9	22.5	19.4	57	4.63	180	982.39	26.4	25.4	-1
6/11/05 13:00	198	1.78816	29.4	22.7	19.4	55	6.69	200	982.05	28.2	27.3	-0.9
6/11/05 14:00	195	1.78816	30.6	23.4	20	53	4.63	200	981.71	28.7	28	-0.7
6/11/05 15:00	192	1.78816	30	23.2	20	55	6.17	160	981.38	28.8	28.4	-0.4
6/11/05 16:00	198	1.34112	30.6	23	19.4	51	5.66	190	981.04	28.4	28.3	0
6/11/05 17:00	180	1.78816	30.6	23.3	20	53	4.12	180	980.70	28.5	28.5	0
6/11/05 18:00	169	1.34112	30	23.2	20	55	4.12	170	980.70	28.3	28.4	0.1
6/11/05 19:00	155	0.89408	27.8	23.2	21.1	67	3.60	150	981.04	26.2	27.5	1.2
6/11/05 20:00	164	1.34112	26.7	23.3	21.7	74	4.12	140	981.71	25.5	26.5	1
6/11/05 21:00	158	0.89408	25.6	22.6	21.1	76	3.09	140	982.39	24.6	25.3	0.7
6/11/05 22:00	155	1.34112	25	22.4	21.1	79	3.60	140	982.39	24.1	24.7	0.6
6/11/05 23:00	166	1.78816	24.4	22.2	21.1	82	4.63	150	982.39	23.4	24	0.6
6/12/05 0:00	169	1.34112	23.9	21.7	20.6	82	3.60	140	981.71	23	23.5	0.5
6/12/05 1:00	177	1.34112	23.9	22	21.1	84	4.12	160	981.38	22.5	23	0.4
6/12/05 2:00	189	0.89408	23.9	22	21.1	84	4.12	170	981.71	22.3	22.7	0.5
6/12/05 3:00	191	0.44704	23.9	22	21.1	84	3.09	170	982.05	22.3	22.8	0.5
6/12/05 4:00	156	0	23.3	21.8	21.1	88	3.09	150	982.73	21.9	22.5	0.6
6/12/05 5:00	169	0.44704	23.3	21.8	21.1	88	4.12	160	982.73	21.7	22.1	0.3
6/12/05 6:00	233	0.89408	24.4	22.2	21.1	82	3.60	230	982.39	22.9	23	0.1
6/12/05 7:00	230	0.89408	25.6	22.9	21.7	79	2.57	190	982.73	24	23.6	-0.4
6/12/05 8:00	205	1.34112	27.8	23.2	21.1	67	5.14	190	982.39	25.7	24.9	-0.8
6/12/05 9:00	192	1.78816	29.4	24.1	21.7	63	5.66	190	982.05	27	26.1	-0.9
6/12/05 10:00	188	2.68224	30.6	24	21.1	57	6.69	190	982.05	28.2	27.5	-0.7
6/12/05 11:00	201	2.2352	30.6	24	21.1	57	5.66	190	981.71	26.3	26.8	-0.6
6/12/05 12:00	193	2.68224	31.1	23.5	20	52	8.23	180	980.36	30.2	29.6	-0.6
6/12/05 13:00	187	3.12928	32.8	23.9	20	47	7.72	180	979.34	30.5	30.1	-0.4
6/12/05 14:00	181	2.68224	32.8	23.6	19.4	45	7.72	180	979.34	31.2	30.7	-0.5
6/12/05 15:00	174	2.68224	31.1	23.5	20	52	9.77	160	978.67	30.6	30.4	-0.1
6/12/05 16:00	232	2.68224	29.4	23.7	21.1	61	4.12	270	979.00	23.5	23.4	-0.1
6/12/05 17:00	217	3.57632	22.2	21.1	20.6	91	5.66	340	980.02	20.3	20.5	0.2
6/12/05 18:00	94	3.57632	20	18.9	18.3	90	5.14	20	980.70	18.3	18.7	0.3
6/12/05 19:00	49	3.57632	20	18.6	17.8	87	5.66	30	980.70	18.4	18.7	0.3
6/12/05 20:00	131	3.12928	20	18.6	17.8	87	6.17	340	983.07	17.9	18.2	0.3
6/12/05 21:00	118	2.2352	18.3	18	17.8	97	5.14	20	985.10	17.2	17.4	0.2
6/12/05 22:00	124	2.2352	17.8	17.8	17.8	100	6.69	60	982.39	17.2	17.3	0.1
6/12/05 23:00	131	2.2352	18.3	18	17.8	97	5.66	170	981.38	17.2	17.3	0.1
6/13/05 0:00	174	1.78816	18.3	18	17.8	97	4.63	150	980.70	17.3	17.5	0.2
6/13/05 1:00	155	1.34112	18.3	18	17.8	97	4.12	130	980.70	17.3	17.5	0.1
6/13/05 2:00	157	0.89408	18.9	17.8	17.2	90	4.12	140	980.36	17.4	17.5	0.1
6/13/05 3:00	166	1.34112	18.9	17.8	17.2	90	2.57	160	980.36	17.7	17.8	0.1
6/13/05 4:00	178	0.89408	18.9	18.2	17.8	93	2.57	360	981.38	17.8	17.9	0.1
6/13/05 5:00	92	0.44704	19.4	18.4	17.8	96	2.06	100	981.04	17.7	17.8	0.1
6/13/05 6:00	142	0.89408	21.7	20.2	19.4	87	3.09	150	980.70	18.8	18.6	-0.2
6/13/05 7:00	191	1.34112	23.9	21.3	20	79	6.17	180	980.36	20.6	20.4	-0.2
6/13/05 8:00	208	1.34112	25.6	22.6	21.1	76	6.69	200	980.36	22	21.8	-0.1
6/13/05 9:00	216	1.34112	27.8	23.2	21.1	67	6.69	200	980.36	24.3	24.1	-0.2
6/13/05 10:00	228	1.34112	27.8	23.6	21.7	69	4.63	230	981.04	25.5	25.3	-0.2
6/13/05 11:00	230	1.34112	30	24.2	21.7	61	5.66	240	980.36	27.4	26.9	-0.5
6/13/05 12:00	225	1.34112	31.1	24.5	21.7	57	4.63	230	980.36	28.3	27.9	-0.5
6/13/05 13:00	257	1.78816	32.2	24.1	20.6	50	5.14	240	980.02	28.8	28.4	-0.4
6/13/05 14:00	289	2.2352	31.1	25.2	22.8	61	4.12	310	980.02	29.4	28.8	-0.6
6/13/05 15:00	284	2.2352	31.7	25.4	22.8	59	4.63	300	979.68	29.7	29.1	-0.5
6/13/05 16:00	297	1.78816	28.9	24.2	22.2	67	3.60	320	979.34	29.1	29.1	-0.1
6/13/05 17:00	294	1.34112	27.8	23.9	22.2	72	2.57	280	979.34	26.8	27.5	0.7
6/13/05 18:00	264	0.89408	28.3	22.7	20	61	2.06	240	980.36	25.6	26.5	0.9
6/13/05 19:00	225	0.44704	27.2	21.7	18.9	61	3.60	210	980.36	23.8	25.4	1.6
6/13/05 20:00	212	0.44704	24.4	21.9	20.6	79	4.12	210	981.71	22.7	24.1	1.4
6/13/05 21:00	224	0.44704	23.9	21	19.4	76	4.12	270	983.07	22.6	23.9	1.3
6/13/05 22:00	270	0.89408	22.8	20.3	18.9	79	1.54	300	983.75	22.2	23.7	1.4
6/13/05 23:00	255	0.44704	21.7	19.9	18.9	84	2.06	300	984.42	20.9	22.2	1.2
6/14/05 0:00	266	0.44704	21.1	19	17.8	82	0.00	0	984.76	18.7	20.6	1.9
6/14/05 1:00	242	0	19.4	18	17.2	87	2.06	300	984.76	17.7	20	2.3
6/14/05 2:00	217	0.44704	18.9	16.9	15.6	81	2.06	320	985.10	17.5	19.6	2.1
6/14/05 3:00	273	0.44										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
6/10/05 6:00	93.6	2.3	3.4	1.2	6.8	0.7	117.3	12.9	69.3	0.25	0	974.39
6/10/05 7:00	91.6	2.8	4	1.2	8	0.8	174.7	12	91.1	0.33	0	975.52
6/10/05 8:00	87.4	4.6	6.2	1.6	12.6	1.5	168.4	12.7	181.8	0.65	0	975.01
6/10/05 9:00	85.3	3.9	5.7	1.8	9.8	1.1	172.4	11.9	221.9	0.8	0	975.29
6/10/05 10:00	80.8	1.5	2.1	0.6	4.8	0.7	233.8	17.8	432.6	1.56	0	976.73
6/10/05 11:00	73.6	1.3	1.8	0.5	4.3	0.6	192.8	22.3	765.1	2.75	0	976.71
6/10/05 12:00	66.3	2.3	3.3	0.9	7.8	0.9	161.2	18.7	724.3	2.61	0	976.46
6/10/05 13:00	58.9	3.3	4.4	1.2	8.1	1	153.4	13.6	783.5	2.82	0	975.44
6/10/05 14:00	57.1	3.5	4.7	1.3	8.6	1	186.7	12.4	590.4	2.13	0	974.54
6/10/05 15:00	54.6	3.8	5.3	1.5	9.5	1.1	163.5	12.9	676.1	2.43	0	974.34
6/10/05 16:00	56.5	3.3	4.7	1.4	8.6	1	162.1	12.1	447.3	1.61	0	974.01
6/10/05 17:00	59.8	2.2	3.3	1	8	0.8	158.9	11.5	193.8	0.7	0	973.87
6/10/05 18:00	61.8	1.1	2.1	0.9	4.5	0.5	166.8	13.8	82.5	0.3	0	973.7
6/10/05 19:00	66.9	0.4	1.3	0.9	3.7	0.3	190.8	10.5	15.3	0.05	0	974.37
6/10/05 20:00	75.6	0.2	1.6	1.3	2.4	0.2	105.8	7.2	0	0	0	974.83
6/10/05 21:00	72.4	1	2.2	1.2	3.8	0.4	132.3	9.2	0	0	0	974.87
6/10/05 22:00	77.3	1.2	2.3	1.2	4.7	0.4	121.9	10.6	0	0	0	974.61
6/10/05 23:00	78.2	1.3	2.4	1.1	4	0.4	138.2	10	0	0	0	974.63
6/11/05 0:00	81.3	1	2.1	1.1	3.5	0.4	125.6	10.9	0	0	0	974.02
6/11/05 1:00	81.2	1.4	2.4	1	4.7	0.5	151.8	13.9	0	0	0	974.26
6/11/05 2:00	79.8	1.9	2.9	1	8	0.9	189.3	19.2	0	0	0	975.07
6/11/05 3:00	89.8	1.4	2.4	1.1	4.5	0.4	66.3	10.8	0	0	0.02	974.42
6/11/05 4:00	91.5	1.6	2.8	1.2	5.4	0.5	102.1	9.4	0.1	0	0.01	973.86
6/11/05 5:00	90	1.4	2.4	1	5.3	0.5	144	11.7	49.3	0.18	0	974.15
6/11/05 6:00	92	3.8	5.4	1.6	12.8	1.5	248.7	15.8	12	0.04	0.28	977.01
6/11/05 7:00	95.2	2.1	3.1	1	8.3	1	266	18.2	4.3	0.02	0.07	977.83
6/11/05 8:00	94.3	1.4	2.3	0.9	5.5	0.6	224.2	15.3	93.6	0.34	0.01	977.21
6/11/05 9:00	93.3	2.5	3.7	1.2	6.9	0.8	102.8	13.1	363.1	1.31	0	976.23
6/11/05 10:00	86.7	3.1	4.2	1.2	8.3	0.9	125.3	14.1	720.3	2.59	0	975.9
6/11/05 11:00	75.4	2	2.7	0.8	6.4	0.7	147.5	16.4	820.5	2.95	0	976.24
6/11/05 12:00	71.2	2.3	3.1	0.8	5.9	0.7	172.7	16	849.3	3.06	0	976.05
6/11/05 13:00	64.9	3	4.1	1.1	7.3	0.9	160.7	12.8	899.9	3.24	0.01	975.46
6/11/05 14:00	62.3	3.3	4.6	1.3	9	1	165.1	12.7	782.9	2.82	0	975.33
6/11/05 15:00	60.9	3.1	4.5	1.4	8.3	1	168	13	570.2	2.05	0	975.13
6/11/05 16:00	62.8	2.3	3.4	1.1	7.7	0.7	175.3	12.2	310.2	1.12	0	974.77
6/11/05 17:00	65.1	1.3	2	0.8	4.2	0.5	155.6	12.7	205.5	0.74	0	974.52
6/11/05 18:00	65.8	0.6	1.4	0.8	3	0.3	160.2	11.5	139.3	0.5	0	974.45
6/11/05 19:00	74.8	0.1	1.2	1.1	2.6	0.2	133.6	5.6	13.1	0.05	0	974.52
6/11/05 20:00	76.3	1	2.2	1.2	3.7	0.4	133	9.5	0	0	0	974.87
6/11/05 21:00	82.3	1.3	2.1	1.1	4.3	0.4	136.4	9.8	0	0	0	975.49
6/11/05 22:00	84	1.4	2.6	1.2	4.8	0.5	135.8	10.6	0	0	0	975.69
6/11/05 23:00	85.8	1.3	2.4	1.1	4.2	0.4	136.3	9.6	0	0	0	975.71
6/12/05 0:00	87.7	1.4	2.4	1	4.1	0.5	139	10.9	0	0	0	975.23
6/12/05 1:00	89	1.7	2.7	1	5	0.5	149	10.4	0	0	0	974.93
6/12/05 2:00	90.4	1.6	2.5	0.9	4.2	0.5	154.9	11.6	0	0	0	975.05
6/12/05 3:00	90.3	1.1	2	0.8	3.7	0.4	162.1	12.7	0	0	0	975.25
6/12/05 4:00	92	0.8	1.7	1	3.1	0.3	155.3	10.4	0.3	0	0	975.6
6/12/05 5:00	93.8	1.2	2.2	1	7.7	0.5	153.5	12.7	24.9	0.09	0	975.92
6/12/05 6:00	88.8	1.6	2.5	0.9	7.4	0.5	166.7	13.3	111	0.4	0	975.86
6/12/05 7:00	85.4	1.4	2.1	0.7	3.5	0.4	171.1	13.2	259.3	0.93	0	975.95
6/12/05 8:00	79.3	1.8	2.6	0.7	4.6	0.6	159.4	15.8	533.2	1.92	0	976
6/12/05 9:00	74.6	2.5	3.4	0.9	7	0.8	148	16.7	627.8	2.26	0	975.65
6/12/05 10:00	70.7	3.2	4.3	1.1	7.8	1.1	178.8	14.1	666.7	2.4	0	975.3
6/12/05 11:00	65.2	3.9	5.4	1.5	9.1	1.2	161.8	13.8	784.8	2.63	0	975.19
6/12/05 12:00	61	3.8	5.2	1.4	9.9	1.3	174.8	13.3	819.3	2.95	0	974.2
6/12/05 13:00	55.8	4	5.4	1.4	9.9	1.3	175.3	14.6	693.6	2.5	0	973.16
6/12/05 14:00	52.5	4	5.4	1.4	10.9	1.4	170.8	13.9	775.3	2.79	0	972.69
6/12/05 15:00	54.8	2.7	3.6	1	8.7	1	166.6	16.1	390.8	1.41	0	972.37
6/12/05 16:00	77.1	2.3	3.4	1.1	7.8	1	177.3	21.8	115.3	0.41	0	973.17
6/12/05 17:00	91.8	2.9	4.3	1.4	10.3	1.2	203.6	18.3	12.6	0.05	0.52	973.89
6/12/05 18:00	93.3	3.8	5.4	1.6	9.9	1.2	40.1	12.3	28	0.1	0.02	974.06
6/12/05 19:00	90.8	3	4.1	1.1	9.6	1	39.8	13.3	6	0.02	0	974.37
6/12/05 20:00	92.8	2.6	3.8	1.2	12.6	1.1	148.2	17.8	0	0	0.65	976.37
6/12/05 21:00	96	1.5	2.4	0.9	5	0.6	66.3	16.5	0	0	0.22	978.22
6/12/05 22:00	96.5	2.1	3.2	1.1	8.3	0.7	94.9	11.9	0	0	0.14	977.72
6/12/05 23:00	96.7	2.6	3.9	1.3	8.8	0.8	89	13.1	0	0	0.01	973.12
6/13/05 0:00	96	2.3	3.3	1	6.7	0.9	164.3	15.5	0	0	0	974.1
6/13/05 1:00	96	2	3.2	1.1	5.7	0.6	124.2	12.2	0	0	0	973.77
6/13/05 2:00	96.3	2.7	4	1.3	7.1	0.9	133.4	12	0	0	0	973.33
6/13/05 3:00	96	2.2	3.2	1.1	5.8	0.7	126.9	17.1	0	0	0	973.78
6/13/05 4:00	96	1	1.8	0.8	4.4	0.5	71.4	18.5	0.1	0	0	974.71
6/13/05 5:00	96.4	0.9	1.8	0.9	3.1	0.3	87.6	10.5	24.1	0.09	0	974.33
6/13/05 6:00	95.6	1.1	1.7	0.7	4.1	0.4	90.4	15.1	146.8	0.53	0	974.05
6/13/05 7:00	91.9	1.4	2	0.6	4.4	0.6	163.6	16.7	212.8	0.77	0	973.8
6/13/05 8:00	89.4	1.3	2.1	0.7	4.1	0.5	198.3	12.5	242.3	0.87	0	973.91
6/13/05 9:00	84.6	2.4	3.5	1.1	6.2	0.7	180.8	11.2	327.7	1.18	0	973.85
6/13/05 10:00	82.6	2.2	3.3	1	6	0.7	193.8	11.2	342.9	1.23	0	974.22
6/13/05 11:00	75.3	2.7	3.8	1.1	7.4	0.8	196.8	14.1	734.1	2.64	0	974.15
6/13/05 12:00	70.1	2.6	3.5	0.9	7.5	0.9	226.2	17.8	811.2	2.92	0	974.15
6/13/05 13:00	66.8	2.3	3.2	0.9	6.6	1	234.4	17.9	810.9	2.92	0	974.11
6/13/05 14:00	64.8	2.4	3.3	0.9	6.2	1	224.6	16.6	825.8	2.97	0	974.03
6/13/05 15:00	63	2.2	3.2	0.9	5.6	0.8	229.8	15.5	677.1	2.44	0	973.96
6/13/05 16:00	60.3	1.5	2.3	0.8	6.2	0.7	238.8	15.6	384.4	1.38	0	973.45
6/13/05 17:00	58.8	0.3	1.4	1	2.8	0.4	260.8	13	76.6	0.28	0	973.08
6/13/05 18:00	60.7	0.9	2	1.1	4.1	0.5	256.9	14	23.6	0.08	0	973.32
6/13/05 19:00	71.8	0.3	1.5	1.2	2	0.2	194.3	5.5	15.8	0.06	0	973.79
6/13/05 20:00	78.8	0.7	1.7	1.1	2.4	0.1	203.9	4.5	0	0	0	974.46
6/13/05 21:00	80.9	0.9	2.1	1.1	4	0.4	227.8	12.5	0	0	0	975.16
6/13/05 22:00	72.6	0.2	1.4	1.1	3.1	0.4	279.4	16.4	0	0	0	977.02
6/13/05 23:00	66.8	0.2	1	0.8	3.3	0.4	279.9	17.2	0	0	0	977.55
6/14/05 0:00	74.8	0	0.7	0.7	1.6	0.2	258.6	14.5	0	0	0	977.86
6/14/05 1:00	80.3	0	0.7	0.7	2	0.2	248.5	13.2	0	0	0	978.05
6/14/05 2:00	81	0.1	0.9	0.9	2.1	0.2	243	12.3	0	0	0	978.44
6/14/05 3:00	82.4	0	0.7	0.7	1.5	0.2	291.2	11.6	0	0	0	978.99
6/14/05 4:00	82.9	0	0.9	0.9	1.8	0.2	263.7	11.6	0.7	0	0	979.87
6/14/05 5:00	85.5	0.1	1	0.9	2.5	0.3	270.6	13.6	40.2	0.14	0	980.7
6/14/05 6:00	79.7	0.8	1.6	0.8	4.5	0.5	293.3	17.6	202.7	0.73	0	981.29
6/14/05 7:00	72.6	1.8	2.8	0.9	5.7	0.8	312.1	14.8	400.8	1.44	0	981.78
6/14/05 8:00	67	1.7	2.6	0.9	5.6	0.7	259.5	17.1	604.			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
6/14/05 21:00	0.04055	23.9	0.7	0.9	0	2.7	0	0.038	0.022	0.06	10.2	20.56	85	
6/14/05 22:00	0.04455	23.6	0.4	0.9	0	2.2	0	0.025	0.019	0.044	10.2	19.44	90	
6/14/05 23:00	0.0393	23.4	0.3	1.3	0	3.1	0	0.017	0.022	0.039	12.4	18.89	92	
6/15/05 0:00	0.0245	22.9	0.6	1.8	0	5.4	0	0.022	0.016	0.038	12.2	18.33	92	
6/15/05 1:00	0.02221	22.4	1.1	0.9	0	4.9	0.002	0.005	0.017	0.021	11.9	18.33	93	
6/15/05 2:00	0.02919	22.7	0.7	1.3	22.5	4	0.005	0.001	0.013	0.014	12.3	18.33	93	
6/15/05 3:00	0.03335	21.5	1.2	0.4	45	1.8	0.001	0.004	0.012	0.017	11.3	17.78	93	
6/15/05 4:00	0.04434	21.7	0.5	0.4	157.5	2.2	0	0.007	0.011	0.018	13.4	17.22	94	
6/15/05 5:00	0.04837	21.7	0.3	0.4	225	1.8	0	0.035	0.008	0.043	14.1	16.67	94	
6/15/05 6:00	0.05321	22.3	2.3	4	292.5	7.2	0.002	0.043	0.009	0.053	16.9	20.00	85	
6/15/05 7:00	0.04862	23.6	1.7	3.1	292.5	6.7	0.023	0.008	0.012	0.02	12.5	23.89	68	
6/15/05 8:00	0.04267	25.4	2.9	1.8	292.5	4	0.04	0.001	0.007	0.008	14.3	26.11	57	
6/15/05 9:00	0.03486	29	4.9	0.9	0	3.6	0.049	0.001	0.007	0.008	12.8	28.33	48	
6/15/05 10:00	0.02875	33	3.4	0.4	315	2.2	0.06	0.001	0.006	0.007	10.3	30.56	37	
6/15/05 11:00	0.05047	35.9	2.4	0.9	180	3.1	0.07	0	0.006	0.007	10.9	31.11	36	
6/15/05 12:00	0.0676	36.7	3.1	1.3	337.5	4.9	0.074	0	0.006	0.006	12.6	31.67	37	
6/15/05 13:00	0.06431	37.1	3.2	1.3	270	4.9	0.06	0	0.003	0.003	11.4	32.22	33	
6/15/05 14:00	0.06473	35.7	2.1	1.8	315	7.2	0.062	0	0.003	0.003	8.5	32.22	32	
6/15/05 15:00	0.06673	35.1	2.4	1.8	292.5	5.8	0.069	0	0.004	0.005	11.6	32.78	35	
6/15/05 16:00	0.06075	34.2	1.5	1.8	292.5	5.4	0.064	0	0.004	0.004	11	32.78	33	
6/15/05 17:00	0.05934	33.3	2.1	1.3	292.5	4.9	0.064	0	0.004	0.004	11	32.22	35	
6/15/05 18:00	0.06514	31.2	2.3	1.8	337.5	5.8	0.057	0	0.01	0.011	11.7	31.67	42	
6/15/05 19:00	0.06293	29.2	1.5	2.2	180	6.3	0.036	0.001	0.021	0.022	10.3	28.89	46	
6/15/05 20:00	0.05615	28	0.9	3.1	180	6.3	0.006	0.018	0.039	0.057	15.9	26.67	61	
6/15/05 21:00	0.05006	27.8	0.4	3.6	180	6.3	0.002	0.015	0.034	0.049	16.6	24.44	73	
6/15/05 22:00	0.06331	27.6	0.2	4.9	180	6.7	0	0.018	0.03	0.048	15.2	23.33	80	
6/15/05 23:00	0.06008	27.5	0.5	5.4	202.5	6.7	0	0.023	0.024	0.047	15.7	22.78	83	
6/16/05 0:00	0.05587	27.4	0.4	5.4	202.5	8.5	0.009	0.015	0.019	0.034	15.3	22.78	83	
6/16/05 1:00	0.05146	26.1	7.5	7.6	225	16.1	0.048	0	0.003	0.003	3.7	20.00	91	
6/16/05 2:00	0.04533	18.9	2	4	135	10.7	0.044	0	0.003	0.003	5.7	20.00	92	
6/16/05 3:00	0.04795	18.6	0.7	2.7	225	6.3	0.04	0	0.004	0.004	7.7	19.44	94	
6/16/05 4:00	0.04871	18.8	0.9	3.6	22.5	7.6	0.034	0	0.007	0.007	3.5	19.44	95	
6/16/05 5:00	0.04769	19.1	1	5.4	112.5	10.7	0.029	0.001	0.014	0.015	9.5	20.00	93	
6/16/05 6:00	0.04016	19.2	0.6	7.6	112.5	11.2	0.027	0.002	0.015	0.016	6.8	20.00	92	
6/16/05 7:00	0.03907	19.2	1	4.5	112.5	9.8	0	0.001	0.012	0.013	15.5	20.00	93	
6/16/05 8:00	0.0403	21.5	4.5	3.1	112.5	13.9	0	0	0	0	9.7	22.22	86	
6/16/05 9:00	0.02835	23.8	4.2	0.4	202.5	5.4	0.031	0	0	0	11.2	23.89	78	
6/16/05 10:00	0.03131	27.3	4	0.9	202.5	3.1	0.035	0	0	0	9.4	26.67	67	
6/16/05 11:00	0.03677	29.9	4.6	1.3	202.5	4.5	0.049	0.003	0.013	0.016	11.2	27.78	62	
6/16/05 12:00	0.04115	30	2.1	3.1	202.5	5.8	0.056	0.002	0.012	0.014	13.7	28.89	60	
6/16/05 13:00	0.05037	29.9	3.7	3.6	202.5	6.3	0.066	0.001	0.008	0.009	14.4	29.44	58	
6/16/05 14:00	0.04969	30.4	2.8	3.1	202.5	6.3	0.063	0.001	0.006	0.007	12.8	30.00	57	
6/16/05 15:00	0.04484	30.7	2.4	2.7	202.5	6.3	0.062	0.001	0.006	0.007	15.8	30.00	56	
6/16/05 16:00	0.05515	31.2	2.5	1.8	180	5.4	0.059	0.001	0.007	0.008	13.9	30.56	55	
6/16/05 17:00	0.06174	29.3	2.2	2.7	202.5	8	0.059	0.001	0.007	0.007	14.2	30.00	57	
6/16/05 18:00	0.06204	28.3	1.5	2.2	112.5	7.6	0.058	0	0.008	0.009	14.2	27.78	64	
6/16/05 19:00	0.062	26.4	1.8	2.2	112.5	7.6	0.054	0	0.011	0.012	15.5	27.22	67	
6/16/05 20:00	0.05984	25.2	0.9	2.7	112.5	7.6	0.048	0.001	0.014	0.015	16.5	26.11	70	
6/16/05 21:00	0.05695	24.7	0.5	4	112.5	8.5	0.044	0	0.014	0.014	16.1	25.56	74	
6/16/05 22:00	0.04849	24.2	0.6	5.4	112.5	9.8	0.041	0	0.011	0.011	15.5	25.56	75	
6/16/05 23:00	0.04573	23.6	0.6	6.3	112.5	12.1	0.044	0	0.007	0.007	15	22.78	78	
6/17/05 0:00	0.04518	22.6	1.8	4.9	22.5	16.1	0.042	0	0.003	0.003	4.6	20.56	83	
6/17/05 1:00	0.04322	18.1	3.6	2.7	45	10.3	0.031	0	0.011	0.011	10.8	20.00	92	
6/17/05 2:00	0.04769	17.8	2.3	3.1	112.5	5.8	0.034	0	0.007	0.007	8.7	19.44	93	
6/17/05 3:00	0.04728	17.8	1.6	4.9	112.5	13	0.049	0	0.008	0.008	9.6	20.00	92	
6/17/05 4:00	0.04982	18.4	0.9	5.8	112.5	13.9	0.041	0	0.006	0.007	7.7	20.00	95	
6/17/05 5:00	0.04761	18.3	0.5	2.2	112.5	10.7	0.03	0.001	0.01	0.011	8.6	20.00	93	
6/17/05 6:00	0.03717	18.3	0.3	1.8	22.5	5.8	0.023	0.002	0.011	0.013	11	20.00	91	
6/17/05 7:00	0.04435	19.4	2.2	1.8	270	4.9	0.025	0.003	0.012	0.015	9.5	21.11	85	
6/17/05 8:00	0.03537	20.7	2.1	1.3	112.5	4.9	0.028	0.005	0.014	0.02	12.6	23.33	77	
6/17/05 9:00	0.02898	24.7	5.9	1.3	112.5	4.5	0.038	0.003	0.011	0.015	9	24.44	72	
6/17/05 10:00	0.04308	25.1	5.7	2.2	112.5	7.2	0.046	0.002	0.008	0.01	9.1	25.00	68	
6/17/05 11:00	0.04792	26.2	5.4	1.8	112.5	5.4	0.054	0.001	0.007	0.008	12.7	25.56	64	
6/17/05 12:00	0.05562	29.1	7.9	1.3	135	5.8	0.058	0.001	0.007	0.008	9.6	26.67	60	
6/17/05 13:00	0.05825	30.6	6	1.8	225	5.4	0.061	0.001	0.007	0.008	12.3	27.78	58	
6/17/05 14:00	0.06331	30.3	3.9	2.7	22.5	8	0.057	0.001	0.006	0.007	12.2	28.33	56	
6/17/05 15:00	0.05962	29.1	2.1	2.2	225	7.6	0.054	0.002	0.007	0.009	12.4	28.89	56	
6/17/05 16:00	0.05746	28.4	3.2	2.2	225	8	0.054	0.001	0.007	0.008	12.7	28.33	57	
6/17/05 17:00	0.06423	27.4	2.8	2.2	225	8	0.06	0.001	0.008	0.009	17.4	28.33	58	
6/17/05 18:00	0.06316	26.4	1.9	3.1	112.5	8.5	0.05	0	0.006	0.006	12.7	27.78	60	
6/17/05 19:00	0.052	25.7	1.6	3.6	112.5	8	0.043	0	0.009	0.009	10.8	26.11	64	
6/17/05 20:00	0.05268	23.9	1.7	2.2	157.5	7.2	0.034	0	0.015	0.016	12.1	24.44	71	
6/17/05 21:00	0.05198	22.8	0.7	3.1	202.5	6.3	0.027	0.001	0.019	0.02	12.2	23.33	75	
6/17/05 22:00	0.05581	22.3	0.4	3.1	202.5	7.2	0.016	0.003	0.022	0.025	12.9	21.67	81	
6/17/05 23:00	0.0595	21.7	0.7	3.1	157.5	7.6	0.01	0.003	0.022	0.025	13.2	20.56	87	
6/18/05 0:00	0.05663	21.3	0.5	3.1	135	9.4	0.009	0.005	0.024	0.029	15.3	20.00	90	
6/18/05 1:00	0.05152	20.8	0.7	3.6	180	8.5	0.017	0.003	0.018	0.021	14.8	20.00	90	
6/18/05 2:00	0.05107	20.3	0.4	4	202.5	8	0.024	0.001	0.009	0.01	13.9	20.00	88	
6/18/05 3:00	0.05307	20.2	0.5	3.6	180	10.3	0.019	0.002	0.009	0.011	14.5	18.89	91	
6/18/05 4:00	0.05497	20.3	0.6	3.6	180	9.8	0.005	0.005	0.013	0.018	14.9	18.33	93	
6/18/05 5:00	0.05355	19.9	0.8	4	135	9.4	0.001	0.015	0.011	0.026	16.8	17.78	94	
6/18/05 6:00	0.04454	19.2	0.9	3.1	135	8	0.015	0.007	0.012	0.02	16.9	20.56	88	
6/18/05 7:00	0.03474	19.9	3.6	1.8	135	5.4	0.034	0.002	0.007	0.009	15.2	22.78	76	
6/18/05 8:00	0.03472	24.5	5.1	1.3	112.5	5.4	0.038	0.003	0.01	0.013	14.9	24.44	68	
6/18/05 9:00	0.04168	27.6	5.7	1.8	112.5	5.8	0.041	0.003	0.012	0.016	14.5	26.11	63	
6/18/05 10:00	0.05056	30.3	3.5	2.2	112.5	6.7	0.053	0.002	0.007	0.009	15.5	27.22	56	

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
6/14/05 21:00	225	0	22.2	18.4	16.1	69	0.00	0	988.49	21.7	23.8	2.1
6/14/05 22:00	234	0	23.3	18.8	16.1	64	2.57	200	988.83	20.6	23.3	2.7
6/14/05 23:00	257	0	22.8	19.3	17.2	71	2.06	200	988.83	19.4	22.1	2.7
6/15/05 0:00	124	0	22.2	19.1	17.2	73	1.54	200	989.16	19.4	21.5	2.1
6/15/05 1:00	266	0	21.7	18.9	17.2	76	0.00	0	988.83	19.5	21.3	1.8
6/15/05 2:00	177	0	20	18.3	17.2	84	0.00	0	988.49	19.3	20.8	1.5
6/15/05 3:00	133	0	19.4	18	17.2	87	0.00	0	988.49	18.7	20.6	1.9
6/15/05 4:00	164	0	18.3	17.3	16.7	90	0.00	0	988.83	18.4	20.1	1.7
6/15/05 5:00	150	0	18.9	17.9	17.2	90	0.00	0	989.16	18.6	20.3	1.7
6/15/05 6:00	142	0	22.2	19.4	17.8	76	0.00	0	989.84	21.5	21.3	-0.2
6/15/05 7:00	256	0.44704	24.4	19.5	16.7	62	0.00	0	990.18	23.7	23.1	-0.7
6/15/05 8:00	216	0.89408	26.1	20.1	16.7	56	0.00	0	990.18	26.6	25.7	-0.8
6/15/05 9:00	114	0.44704	28.3	20.8	16.7	49	1.54	250	989.50	28.2	27.2	-1
6/15/05 10:00	161	0.89408	30	20.1	14.4	39	1.54	0	989.50	29.5	28.5	-1
6/15/05 11:00	199	0.89408	31.7	20.1	13.3	33	0.00	0	989.16	29.8	28.9	-0.9
6/15/05 12:00	255	1.34112	32.2	20.6	13.9	33	3.09	260	988.83	30.4	29.6	-0.8
6/15/05 13:00	271	1.78816	33.3	20.6	13.3	30	3.60	280	988.15	31	30.2	-0.8
6/15/05 14:00	278	1.78816	33.3	21.1	14.4	32	4.12	320	987.47	31.2	30.5	-0.7
6/15/05 15:00	291	1.78816	33.3	21.7	15.6	34	2.57	360	986.79	31.4	30.6	-0.8
6/15/05 16:00	285	1.34112	33.3	21.7	15.6	34	3.09	350	986.12	31.5	30.8	-0.7
6/15/05 17:00	274	1.34112	32.2	21.1	15	35	1.54	340	985.78	30.8	30.4	-0.3
6/15/05 18:00	229	0.44704	31.1	21.3	16.1	40	3.09	0	985.44	30	30	0
6/15/05 19:00	210	0	28.9	21	16.7	48	2.57	200	985.10	26.2	27.7	1.5
6/15/05 20:00	87	0.44704	29.4	21.1	16.7	46	1.54	200	985.78	23.9	27.1	3.1
6/15/05 21:00	153	0.44704	27.8	20.6	16.7	51	0.00	0	986.12	24.6	26.9	2.3
6/15/05 22:00	177	0	25.6	20.8	18.3	64	1.54	130	986.12	25.2	26.8	1.6
6/15/05 23:00	161	0	25	21	18.9	69	2.57	140	986.12	24.7	26.2	1.4
6/16/05 0:00	242	2.2352	26.1	20.4	17.2	58	15.43	310	987.81	21.9	22.4	0.5
6/16/05 1:00	281	4.02336	20	19.6	19.4	96	5.66	320	989.84	19	19.3	0.3
6/16/05 2:00	109	1.34112	20	19.6	19.4	96	2.06	350	989.16	18.8	19	0.2
6/16/05 3:00	133	1.34112	20	20	100	1.54	140	988.49	18.8	18.9	0.1	
6/16/05 4:00	179	0.89408	20	19.6	19.4	96	4.63	170	987.47	18.9	19	0.1
6/16/05 5:00	144	1.78816	20	19.3	18.9	93	4.12	120	986.12	19	19	0
6/16/05 6:00	118	1.78816	20	19.3	18.9	93	4.12	310	987.81	19.3	19.3	-0.1
6/16/05 7:00	165	2.2352	21.1	19.3	18.3	84	3.09	160	987.47	19.9	19.7	-0.2
6/16/05 8:00	188	0.89408	22.2	20.4	19.4	84	2.06	350	987.81	21.9	21.1	-0.7
6/16/05 9:00	215	0.44704	23.9	21	19.4	76	0.00	0	987.47	24.2	23.1	-1.1
6/16/05 10:00	176	1.34112	26.7	22.2	20	67	3.09	190	986.79	25.5	24.4	-1.1
6/16/05 11:00	172	1.34112	28.3	22.7	20	61	3.09	200	986.45	27.2	26.2	-1
6/16/05 12:00	190	1.34112	28.9	22.9	20	59	4.12	190	986.12	29.2	27.3	-0.9
6/16/05 13:00	177	1.78816	29.4	22.7	19.4	55	3.09	130	985.10	28.9	27.9	-0.9
6/16/05 14:00	181	1.78816	30	23.2	20	55	3.09	170	984.76	29.4	28.5	-0.9
6/16/05 15:00	162	1.78816	30.6	23.7	20.6	55	5.14	140	984.42	29.5	28.8	-0.8
6/16/05 16:00	165	1.78816	29.4	23.4	20.6	59	6.17	130	983.41	29.1	28.5	-0.6
6/16/05 17:00	159	2.2352	28.9	23.2	20.6	61	5.14	120	983.07	28.2	28	-0.2
6/16/05 18:00	151	2.2352	27.2	22.7	20.6	67	3.09	120	982.73	26.5	26.7	0.3
6/16/05 19:00	152	1.78816	25.6	22.6	21.1	76	2.57	130	983.07	25.3	25.8	0.5
6/16/05 20:00	142	1.34112	25	22.4	21.1	79	3.09	120	983.41	24.6	25.1	0.5
6/16/05 21:00	128	1.78816	25	22.4	21.1	79	4.63	120	982.73	24	24.3	0.4
6/16/05 22:00	139	2.2352	24.4	21.9	20.6	79	4.63	130	982.73	23.5	23.8	0.3
6/16/05 23:00	72	4.02336	21.1	18.4	16.7	76	10.29	50	982.73	21.7	22	0.3
6/17/05 0:00	192	2.2352	21.1	19	17.8	82	6.17	250	984.08	20.3	20.5	0.3
6/17/05 1:00	199	0.89408	20	19.3	18.9	93	0.00	0	983.75	19.3	19.5	0.2
6/17/05 2:00	181	1.78816	20	19.3	18.9	93	4.12	150	981.71	18.8	19	0.2
6/17/05 3:00	191	1.78816	20.6	19.5	19.0	2.57	200	982.39	19.1	19.5	0.4	
6/17/05 4:00	107	1.78816	20	19.3	18.9	93	3.60	40	983.75	18.6	18.8	0.2
6/17/05 5:00	45	1.78816	20	19.3	18.9	93	2.06	20	984.08	18.7	18.9	0.2
6/17/05 6:00	98	0.89408	21.1	19.7	18.9	87	3.60	100	982.73	19.5	19.6	0.1
6/17/05 7:00	194	0.89408	21.7	19.5	18.3	81	2.57	120	983.41	20.3	20.2	-0.1
6/17/05 8:00	174	1.34112	23.9	20.6	18.9	74	5.14	140	984.08	22.5	21.8	-0.7
6/17/05 9:00	131	1.78816	23.9	20.6	18.9	74	4.12	150	985.10	24	23.1	-0.9
6/17/05 10:00	123	1.34112	25	21.3	19.4	71	3.09	130	985.44	25	24	-1.1
6/17/05 11:00	103	1.34112	26.7	21.5	18.9	62	3.09	130	985.10	26	25	-1.1
6/17/05 12:00	99	1.78816	27.2	21.7	18.9	61	3.09	140	984.76	26.3	25.4	-0.8
6/17/05 13:00	77	2.2352	28.3	22.3	19.4	59	2.57	100	984.42	27.4	26.4	-1
6/17/05 14:00	89	2.2352	28.3	22	18.9	57	1.54	0	984.08	27.8	27	-0.7
6/17/05 15:00	94	1.78816	28.3	22.3	19.4	59	5.14	100	983.75	28.1	27.4	-0.7
6/17/05 16:00	117	2.2352	27.8	22.2	19.4	60	4.12	110	983.75	27.9	27.4	-0.5
6/17/05 17:00	123	2.2352	27.8	21.9	18.9	58	5.14	130	983.75	27.4	27.1	-0.3
6/17/05 18:00	139	2.2352	26.7	21.5	18.9	67	4.12	140	984.08	26.4	26.4	0
6/17/05 19:00	158	1.78816	25.6	21.2	18.9	67	3.60	160	984.42	24.5	25.2	0.7
6/17/05 20:00	178	0.89408	24.4	20.8	18.9	72	2.44	170	985.10	23.3	24.3	1
6/17/05 21:00	176	0.89408	23.9	20.3	18.3	71	2.57	180	985.78	22.2	23.2	1
6/17/05 22:00	161	0.44704	22.8	19.9	18.3	76	2.57	140	986.12	21.3	22.5	1.2
6/17/05 23:00	150	0	21.1	19.3	18.3	84	2.57	130	985.78	21.1	22	0.9
6/18/05 0:00	140	0.44704	21.1	19.3	18.3	84	1.54	140	985.78	20.5	21.2	0.7
6/18/05 1:00	153	0.44704	20	18.9	18.3	90	2.06	140	985.78	20.1	20.8	0.7
6/18/05 2:00	152	0.44704	20	18.9	18.3	90	2.06	120	986.12	19.8	20.4	0.6
6/18/05 3:00	122	0.44704	18.9	18.2	17.8	93	2.57	110	986.12	19.2	19.8	0.6
6/18/05 4:00	136	0	18.9	18.2	17.8	93	2.06	140	986.45	18.8	19.4	0.5
6/18/05 5:00	134	0	19.4	18.7	18.3	93	2.06	120	987.13	18.9	19.2	0.3
6/18/05 6:00	142	0.44704	21.1	19.3	18.3	84	3.60	140	987.81	20.4	20.1	-0.3
6/18/05 7:00	151	1.34112	22.8	20.3	18.9	79	3.09	120	987.81	21.8	21.1	-0.7
6/18/05 8:00	143	1.78816	24.4	20.8	18.9	72	2.57	130	988.15	23.7	22.7	-1
6/18/05 9:00	144	1.78816	26.7	21.2	18.3	60	4.12	130	988.15	25.3	24.2	-1.1
6/18/05 10:00	143	2.68224	27.8	21.3	17.8	55	4.63	120	987.81	26.8	25.8	-1
6/18/05 11:00	165	2.68224	28.9	21.9	18.3	53	5.14	130	987.81	27.7	26.7	-1
6/18/05 12:00	140	2.68224	29.4	21.4	17.2	48	6.17	120	987.47	28.3	27.4	-0.9
6/18/05 13:00	134	2.68224	30	21.3	16.7	45	5.14	130	987.13	28.6	27.8	-0.9
6/18/05 14:00	144	2.2352	30	21.9	17.8	48	2.57	140	986.79	29	28.3	-0.7
6/18/05 15:00	143	1.78816	30	21.6	17.2	46	4.12	140	986.45	29.3	28.5	-0.8
6/18/05 16:00	138	2.2352	30	21	16.1	43	4.63	120	986.12	29.1	28.6	-0.5
6/18/05 17:00	131	1.78816	29.4	21.1	16.7	46	3.60	130	986.12	28.6	28.3	-0.3
6/18/05 18:00	129	1.78816	27.8	20.9	17.2	53	3.09	120	986.45	27.4	27.5	0.1
6/18/05 19:00	147	0										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{SEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
6/14/05 21:00	70.8	0	1	1	1.4	0.1	186	2.5	0	0	0	981.57
6/14/05 22:00	72.6	0	1.4	1.3	2	0.1	187.8	3.3	0	0	0	981.98
6/14/05 23:00	82	0.1	1.4	1.3	2.3	0.1	204.9	3.7	0	0	0	982.1
6/15/05 0:00	82.7	0.9	2.1	1.3	3	0.2	203.8	4.5	0	0	0	982.11
6/15/05 1:00	81.7	1.1	2.2	1.2	3	0.2	220.4	5.1	0	0	0	982
6/15/05 2:00	84.6	1	2	1	2.7	0.1	220.2	3.7	0	0	0	981.79
6/15/05 3:00	84.5	0.6	1.7	1.1	2.9	0.2	231.2	6.8	0	0	0	981.66
6/15/05 4:00	86	0.5	1.3	0.9	2.4	0.2	239.1	9.7	0.3	0	0	981.72
6/15/05 5:00	86.2	0.1	0.9	0.9	2	0.2	215.4	12.7	42.7	0.15	0	982.13
6/15/05 6:00	82.3	0.1	0.7	0.6	1.7	0.2	233.7	18	204.6	0.74	0	982.59
6/15/05 7:00	75.5	0.4	0.9	0.4	1.7	0.2	234.1	19.2	395.8	1.43	0	982.93
6/15/05 8:00	62.8	0.3	0.7	0.4	1.7	0.3	255.7	21.4	583.7	2.1	0	983.27
6/15/05 9:00	54.4	0.6	1	0.4	2.4	0.5	94	21.2	743.8	2.68	0	982.98
6/15/05 10:00	42.5	0.6	0.9	0.3	2.5	0.4	106.3	26.1	873.8	3.15	0	982.67
6/15/05 11:00	48.3	1.1	1.6	0.5	3.8	0.7	195.5	19.7	940.1	3.38	0	982.61
6/15/05 12:00	44	1.8	2.4	0.7	5.1	0.6	200.4	15.8	959.7	3.45	0	982.37
6/15/05 13:00	46.3	1.6	2.2	0.6	4.7	0.6	215.3	18.7	923.8	3.33	0	981.87
6/15/05 14:00	42.8	1.7	2.5	0.7	4.4	0.7	212.8	17.5	842	3.03	0	981.26
6/15/05 15:00	43.8	1.4	2	0.7	4.2	0.6	201.1	16.4	702.2	2.53	0	980.53
6/15/05 16:00	41	0.9	1.5	0.6	3	0.4	201.6	15.5	525.7	1.89	0	979.85
6/15/05 17:00	43.3	0.9	1.6	0.7	2.9	0.3	189.1	9.2	339.3	1.22	0	979.33
6/15/05 18:00	48.3	0	0.8	0.8	1.4	0.2	134.9	9.2	146.6	0.53	0	978.84
6/15/05 19:00	64.8	0	1.1	1.1	1.9	0.2	183.1	7.6	13.9	0.05	0	978.67
6/15/05 20:00	74	0.1	0.7	0.6	1.9	0.2	165.6	8	0	0	0	979
6/15/05 21:00	67.8	0.1	1.3	1.2	2.7	0.2	170.6	9.4	0	0	0	979.22
6/15/05 22:00	62.3	0.1	1.3	1.2	2.1	0.2	161.8	8.5	0	0	0	979.35
6/15/05 23:00	65.3	0.4	1.7	1.4	3.4	0.2	136	6.1	0	0	0	979.14
6/16/05 0:00	77.8	3.2	4.6	1.5	22	1.6	244.2	18.9	0	0	0.55	980.1
6/16/05 1:00	93.8	2.6	3.7	1.2	8.5	1.2	286.2	17.6	0	0	0.14	982.53
6/16/05 2:00	95.4	1.6	2.5	0.9	4.6	0.5	86.2	11.7	0	0	0.2	981.86
6/16/05 3:00	96	1.2	2.2	1	4.6	0.4	101.2	11.7	0	0	0.02	980.81
6/16/05 4:00	96	1.8	2.8	1	5.7	0.6	143.8	11.7	0	0	0	980.4
6/16/05 5:00	96.1	2.3	3.4	1.1	6.7	0.7	124	11.9	19.8	0.07	0	979.63
6/16/05 6:00	96.6	2.1	3.2	1.1	5.5	0.7	101.8	12.7	47	0.17	0.01	979.96
6/16/05 7:00	96	1.5	2.2	0.8	5.3	0.5	57.2	14.4	159.4	0.57	0.02	980.48
6/16/05 8:00	89.4	1.3	2	0.7	3.7	0.5	87.1	13.8	475.4	1.71	0	980.75
6/16/05 9:00	82.4	1.5	2	0.5	4.5	0.5	171.4	18.4	726.4	2.62	0	980.6
6/16/05 10:00	77.4	2.2	3	0.8	5.5	0.7	194.7	15.1	839.3	3.02	0	980.19
6/16/05 11:00	66.8	2.1	2.9	0.7	5.8	0.7	158.4	14	913.6	3.29	0	979.77
6/16/05 12:00	63	2	2.6	0.7	5	0.7	170.8	19.7	928.7	3.34	0	979.43
6/16/05 13:00	61.2	2.1	2.9	0.8	5.7	0.8	188.7	15.4	904	3.25	0	978.84
6/16/05 14:00	61.5	1.8	2.5	0.7	5.4	0.7	155.3	19.8	813.3	2.93	0	978.3
6/16/05 15:00	58.8	1.9	2.6	0.7	5.3	0.8	169.8	16.7	649	2.34	0	977.87
6/16/05 16:00	61.3	2	3	1	5.5	0.7	136.4	13.8	476.8	1.72	0	977.26
6/16/05 17:00	63.8	1.8	2.8	1	5.5	0.7	131.9	13.4	264.5	0.95	0	976.52
6/16/05 18:00	71.8	1.3	2.3	1	4.3	0.5	128	11.6	77.3	0.28	0	976.31
6/16/05 19:00	74.6	1.5	2.5	1	5.4	0.6	133	11.9	9.7	0.03	0	976.3
6/16/05 20:00	77.3	1.5	2.6	1.2	4.8	0.5	119	10.7	0	0	0	976.36
6/16/05 21:00	80.9	1.4	2.6	1.1	5.1	0.5	103.7	11	0	0	0	976.59
6/16/05 22:00	83.2	1.7	2.7	1	5.8	0.5	85.1	13.6	0	0	0.02	976.55
6/16/05 23:00	88.9	1.7	2.7	1	6.7	0.7	217.1	19.2	0	0	0.02	976.87
6/17/05 0:00	92.8	2	3.1	1.1	6.5	0.7	200.3	11.3	0	0	0.06	976.73
6/17/05 1:00	94.3	2.6	3.9	1.2	8.9	0.7	170.3	12.1	0	0	0.17	976.74
6/17/05 2:00	94.5	2.5	3.6	1.1	8.3	0.8	116.5	14.4	0	0	0.05	975.22
6/17/05 3:00	92.3	1.4	2.3	0.9	5.5	0.5	140.8	17.8	0	0	0.02	975.46
6/17/05 4:00	94.6	0.8	1.4	0.7	3.7	0.4	76.8	12.5	0	0	0	976.93
6/17/05 5:00	96	0.7	1.6	0.8	3.6	0.4	46.3	12.9	15.7	0.06	0	977.39
6/17/05 6:00	94.3	1.2	2.1	0.9	4.9	0.5	74.7	15.2	96.7	0.35	0	976.9
6/17/05 7:00	92.6	0.7	1.4	0.7	3.1	0.3	180.6	15.5	140.2	0.5	0	977.41
6/17/05 8:00	83.5	0.6	1	0.4	2.9	0.4	164.3	21.9	479.7	1.73	0	978
6/17/05 9:00	74.5	1	1.5	0.5	3.6	0.5	96.7	25.9	605.3	2.18	0	978.44
6/17/05 10:00	70.8	1.1	1.6	0.5	4.3	0.6	113.3	21.4	743.7	2.68	0	978.65
6/17/05 11:00	66.2	1.1	1.6	0.5	3.9	0.6	157.8	21.7	829.7	2.99	0	978.55
6/17/05 12:00	65.2	1.1	1.6	0.5	3.7	0.5	93.2	27	675.8	2.43	0	978.42
6/17/05 13:00	62.4	1.6	2.4	0.8	5.1	0.7	83	20.3	930.8	3.35	0	978.09
6/17/05 14:00	61.1	2	2.8	0.9	5.8	0.8	74.3	19.5	803.8	2.89	0	977.62
6/17/05 15:00	60	1.9	2.8	1	5.6	0.8	90.2	14.2	711.5	2.56	0	977.42
6/17/05 16:00	61.7	2	2.9	1	5.5	0.7	100.2	15.2	520.8	1.88	0	977.14
6/17/05 17:00	64.3	1.7	2.6	0.9	6	0.7	105.7	13.4	336.2	1.21	0	977.08
6/17/05 18:00	66.4	1.5	2.4	0.9	4.3	0.5	118.3	11.4	162.7	0.59	0	977.26
6/17/05 19:00	72.4	0.5	1.7	1.1	2.9	0.3	141.5	9.4	21.3	0.08	0	977.64
6/17/05 20:00	78.1	0.7	1.8	1.1	3.8	0.3	151	8.9	0	0	0	978.03
6/17/05 21:00	82.5	1.4	1.5	2.1	2.8	0.2	176.1	8.2	0	0	0	978.75
6/17/05 22:00	85.8	0.2	1.4	1.3	2.3	0.2	141.2	7.7	0	0	0	979.19
6/17/05 23:00	85	0.8	1.9	1.1	3.5	0.3	148.8	8.2	0	0	0	979.11
6/18/05 0:00	87.3	0.9	1.9	1.1	3	0.3	149.4	9.5	0	0	0	978.95
6/18/05 1:00	88.3	1	1.9	0.9	3.3	0.4	166	11.2	0	0	0	978.84
6/18/05 2:00	89.6	1	1.9	0.9	3.5	0.4	156.5	11.3	0	0	0	978.97
6/18/05 3:00	92.4	0.9	2	1.1	3.6	0.3	135.8	9	0	0	0	979.25
6/18/05 4:00	94.2	0.8	1.9	1.1	3	0.3	133.4	8.5	0.3	0	0	979.49
6/18/05 5:00	94.9	0.8	1.9	1.1	2.8	0.3	111.3	9.1	39.2	0.14	0	980.05
6/18/05 6:00	91	1.2	1.9	0.7	3.7	0.4	136.3	13.2	192.8	0.69	0	980.67
6/18/05 7:00	84.5	1.9	2.8	0.9	5.2	0.7	130.1	13.7	379.3	1.37	0	980.99
6/18/05 8:00	76.4	2	2.8	0.8	5.1	0.6	128.5	14	563	2.03	0	981.41
6/18/05 9:00	68.6	2.3	3.2	0.9	5.7	0.7	125.7	15.7	720.2	2.59	0	981.42
6/18/05 10:00	62.1	2.8	4	1.2	7.5	0.9	122.3	14.3	846	3.05	0	981.28
6/18/05 11:00	58	3	4.2	1.3	7.8	1	127.8	16.3	918.8	3.31	0	981.19
6/18/05 12:00	55.5	2.7	3.9	1.2	7.4	1	125.8	16.8	936.4	3.37	0	980.89
6/18/05 13:00	53.8	2.6	3.7	1.1	6.4	0.9	117.6	15.4	906.2	3.26	0	980.63
6/18/05 14:00	52.8	2.1	3.1	1	5.7	0.8	110.6	17.4	833.3	3	0	980.33
6/18/05 15:00	52.5	2	2.9	1	6.5	0.7	126.3	16.6	702	2.53	0	980.06
6/18/05 16:00	52.4	2.1	2.9	0.9	5.8	0.8	130.6	15.2	527.9	1.9	0	979.73
6/18/05 17:00	53.6	1.5	2.3	0.8	4.5	0.6	135.5	14.1	346.1	1.25	0	979.51
6/18/05 18:00	56.3	1.1	2	0.9	4.2	0.4	141	11.7	160.6	0.58	0	979.68
6/18/05 19:00	59.8	0.7	2	1.3	3.2	0.3	135.7	9.5	21.7	0.08	0	979.97
6/18/05 20:00	60.8	1	2.2	1.2	3.8	0.3	144.6	8.9	0	0	0	980.42
6/18/05 21:00	63.5	1.1	2.3	1.2	4.1	0.4	149.3	10	0	0	0	980.82
6/18/05 22:00	64.3	1	2.2	1.2	3.4	0.4	148.1	9.1	0	0	0	981.24
6/18/05 23:00	67.4	0.8	2.1	1.3	3.4	0.3	143.8	8.7	0	0	0	981.4
6/19/05 0:												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
6/19/05 12:00	0.06306	32.8	5.7	3.1	202.5	8	0.061	0	0.004	0.004	24.6	30.00	46	
6/19/05 13:00	0.0637	33.7	6.6	2.2	202.5	7.2	0.062	0	0.004	0.004	21.7	30.56	45	
6/19/05 14:00	0.06519	34.9	3.4	2.2	112.5	6.3	0.067	0	0.005	0.005	22.6	30.56	44	
6/19/05 15:00	0.06766	31.9	5.1	2.2	112.5	8	0.069	0	0.005	0.005	21.7	30.56	42	
6/19/05 16:00	0.06953	30.9	2.3	2.2	112.5	8.9	0.069	0	0.005	0.005	25.6	30.56	44	
6/19/05 17:00	0.07204	29.6	1.6	1.3	112.5	6.3	0.079	0	0.006	0.006	26	30.00	44	
6/19/05 18:00	0.08173	28.2	1.9	2.7	112.5	7.2	0.077	0	0.007	0.007	28.4	28.89	47	
6/19/05 19:00	0.09374	27	1.7	3.1	112.5	8	0.06	0	0.008	0.009	23.7	27.22	53	
6/19/05 20:00	0.07912	25.5	1.6	2.7	112.5	7.2	0.026	0.004	0.029	0.034	28	24.44	66	
6/19/05 21:00	0.06595	24.6	0.7	2.2	112.5	6.7	0.013	0.005	0.032	0.037	28.6	21.67	78	
6/19/05 22:00	0.06351	24.3	0.5	2.2	112.5	6.7	0.004	0.007	0.033	0.041	30.6	20.56	84	
6/19/05 23:00	0.06048	24.6	0.5	2.2	157.5	5.8	0	0.011	0.025	0.036	32.8	19.44	90	
6/20/05 0:00	0.05749	24.6	0.4	2.2	135	6.7	0	0.013	0.019	0.032	29.6	18.89	91	
6/20/05 1:00	0.05861	24.6	0.3	3.1	135	7.6	0	0.012	0.014	0.026	30.6	18.33	92	
6/20/05 2:00	0.06192	24.6	0.4	3.1	180	6.7	0.001	0.006	0.011	0.018	30.2	17.78	93	
6/20/05 3:00	0.05882	24.1	1.1	2.7	157.5	6.7	0	0.003	0.011	0.014	27.5	17.22	94	
6/20/05 4:00	0.05892	23.2	1.8	3.6	202.5	7.6	0	0.007	0.01	0.017	28.2	16.67	94	
6/20/05 5:00	0.04865	22.7	0.9	4.9	202.5	7.2	0	0.021	0.008	0.029	27.7	16.67	94	
6/20/05 6:00	0.04923	22.3	1.3	4	202.5	6.3	0.003	0.023	0.011	0.034	31.6	18.89	90	
6/20/05 7:00	0.04885	23.1	3.3	3.1	202.5	5.4	0.007	0.021	0.017	0.038	31.9	22.78	78	
6/20/05 8:00	0.03533	25.6	4.3	1.3	202.5	3.6	0.032	0.008	0.02	0.028	29.7	26.67	61	
6/20/05 9:00	0.04068	26.4	6.1	1.8	202.5	4.5	0.055	0.003	0.016	0.018	29	27.78	55	
6/20/05 10:00	0.05741	29.4	7.7	0.9	202.5	4.6	0.069	0.001	0.011	0.012	31.2	28.33	50	
6/20/05 11:00	0.06664	35	7.6	1.3	202.5	3.1	0.08	0.001	0.01	0.011	29.6	29.44	44	
6/20/05 12:00	0.07193	37.9	4.2	0.9	315	2.7	0.084	0.001	0.008	0.008	26.1	30.00	41	
6/20/05 13:00	0.08796	38.7	4.1	0.9	45	4	0.097	0.001	0.01	0.011	27.3	30.56	41	
6/20/05 14:00	0.1028	37	3.4	1.3	67.5	4	0.091	0.001	0.011	0.012	28.4	30.56	38	
6/20/05 15:00	0.09443	33	4.3	1.3	202.5	4.5	0.083	0.001	0.009	0.01	27.7	31.11	35	
6/20/05 16:00	0.08704	31.1	2.5	1.8	202.5	6.3	0.077	0.001	0.01	0.012	22.9	31.11	36	
6/20/05 17:00	0.08432	30.2	2.1	1.3	202.5	5.4	0.077	0.001	0.011	0.012	24.1	30.56	39	
6/20/05 18:00	0.07721	29.4	1.4	0.9	67.5	4	0.075	0.001	0.013	0.013	29.9	30.00	45	
6/20/05 19:00	0.07669	27.5	2.2	1.3	202.5	4.9	0.067	0	0.016	0.016	34.3	27.22	56	
6/20/05 20:00	0.07583	25.9	1.2	1.8	202.5	4	0.02	0.009	0.044	0.053	35.4	23.89	70	
6/20/05 21:00	0.07339	24.9	1.3	0.9	135	3.6	0.011	0.005	0.034	0.04	35.7	22.22	79	
6/20/05 22:00	0.05915	24.1	1	0.9	112.5	3.1	0.004	0.006	0.028	0.034	34	21.11	88	
6/20/05 23:00	0.051	24	1.2	1.3	112.5	3.6	0.002	0.007	0.024	0.031	36.4	20.00	90	
6/21/05 0:00	0.04815	23.7	0.9	1.3	180	3.1	0	0.005	0.02	0.025	36.1	19.44	91	
6/21/05 1:00	0.04108	24.1	1.4	1.8	180	4	0.004	0.002	0.02	0.021	36.8	18.89	92	
6/21/05 2:00	0.06016	23.8	1.8	1.3	180	3.4	0.001	0.004	0.016	0.02	34.6	18.33	93	
6/21/05 3:00	0.05811	23.3	0.4	112.5	2.2	0.004	0.002	0.002	0.011	0.013	31.2	17.78	93	
6/21/05 4:00	0.05399	23.9	1.2	1.3	180	4.9	0.002	0.008	0.014	0.022	31.9	17.78	92	
6/21/05 5:00	0.03479	23	1.5	1.3	0	3.6	0.001	0.013	0.011	0.024	32.8	17.78	92	
6/21/05 6:00	0.02929	22.9	1.2	0.9	0	2.2	0.006	0.012	0.012	0.024	31.2	19.44	87	
6/21/05 7:00	0.05612	24.4	2.4	0.4	22.5	1.8	0.017	0.009	0.019	0.028	32.8	23.33	73	
6/21/05 8:00	0.05927	27.5	5	0.4	0	3.1	0.037	0.004	0.014	0.019	31.3	26.67	60	
6/21/05 9:00	0.04043	30.3	5.2	1.3	292.5	3.6	0.058	0	0.004	0.004	25.1	28.33	48	
6/21/05 10:00	0.05466	33.6	5.5	1.8	292.5	5.8	0.061	0	0.003	0.003	24.3	29.44	43	
6/21/05 11:00	0.06435	35.4	6	1.3	270	4.5	0.072	0	0.004	0.005	25.8	29.44	41	
6/21/05 12:00	0.07318	38	6	0.9	202.5	4.5	0.081	0.001	0.009	0.01	27	30.00	41	
6/21/05 13:00	0.08571	35.2	10.1	1.3	202.5	4.5	0.084	0	0.006	0.006	26.3	30.00	42	
6/21/05 14:00	0.08569	35.9	4.6	1.3	202.5	5.4	0.082	0	0.006	0.006	29.1	30.56	41	
6/21/05 15:00	0.08486	34.7	4.9	1.3	292.5	4.9	0.095	0	0.007	0.007	31	31.11	41	
6/21/05 16:00	0.08527	32.3	3.1	1.3	202.5	4.9	0.095	0	0.007	0.008	28.1	31.11	41	
6/21/05 17:00	0.07813	29.4	2.4	1.8	202.5	5.8	0.083	0	0.007	0.008	28.4	30.56	43	
6/21/05 18:00	0.07011	29.4	1.2	1.3	202.5	4.5	0.079	0	0.007	0.007	26.9	30.00	46	
6/21/05 19:00	0.0559	28.6	2.1	0.9	30	4	0.066	0	0.009	0.009	27.6	27.78	54	
6/21/05 20:00	0.05621	26.8	1.6	0.9	0	4	0.021	0.003	0.033	0.036	28.7	25.00	71	
6/21/05 21:00	0.05275	25.8	0.9	1.3	180	3.1	0.002	0.012	0.039	0.051	32.8	22.78	81	
6/21/05 22:00	0.05358	25.5	0.4	2.2	202.5	4.5	0.004	0.005	0.027	0.032	30.6	22.78	84	
6/21/05 23:00	0.03197	25.2	0.7	2.7	180	4	0.001	0.003	0.023	0.026	29.6	21.67	88	
6/22/05 0:00	0.05115	25.3	0.8	4	180	5.4	0.003	0.002	0.017	0.019	29.4	21.11	89	
6/22/05 1:00	0.07123	25.4	0.1	4.5	180	7.6	0.001	0.003	0.018	0.021	30.3	20.56	91	
6/22/05 2:00	0.07101	25.3	0.2	5.4	180	7.2	0.002	0.002	0.012	0.014	28.5	20.00	90	
6/22/05 3:00	0.06903	24.8	0.6	4.5	202.5	5.4	0.001	0.004	0.011	0.014	28.2	18.89	93	
6/22/05 4:00	0.06975	24.4	0.9	4	202.5	5.4	0	0.004	0.011	0.015	27.1	18.33	94	
6/22/05 5:00	0.0527	24.1	0.5	4	202.5	5.4	0.001	0.012	0.013	0.025	30	18.33	93	
6/22/05 6:00	0.05589	24	0.9	3.1	202.5	4.5	0.001	0.026	0.012	0.038	29.4	20.56	89	
6/22/05 7:00	0.04591	24.6	1.8	3.1	202.5	4.5	0.008	0.026	0.026	0.052	42.1	24.44	74	
6/22/05 8:00	0.04135	27.4	3.5	1.3	180	4	0.03	0.012	0.026	0.038	38.5	27.78	59	
6/22/05 9:00	0.03432	28.2	6.1	3.1	202.5	5.4	0.053	0.002	0.014	0.017	34.7	29.44	50	
6/22/05 10:00	0.05526	33.6	4.9	1.7	202.5	3.1	0.068	0.001	0.007	0.008	35.2	30.56	46	
6/22/05 11:00	0.06665	34.6	4.5	2.7	202.5	5.8	0.079	0	0.005	0.005	31.4	30.56	45	
6/22/05 12:00	0.06966	37	4	2.2	202.5	4.9	0.08	0.001	0.007	0.007	32.5	31.11	43	
6/22/05 13:00	0.07115	36.7	4	2.2	202.5	5.4	0.078	0.001	0.009	0.01	34.1	31.67	42	
6/22/05 14:00	0.06906	34.9	6.6	2.2	202.5	6.7	0.079	0.001	0.008	0.009	34.6	32.22	40	
6/22/05 15:00	0.0676	32.4	6.4	2.2	202.5	5.8	0.075	0.001	0.009	0.009	33.9	32.22	41	
6/22/05 16:00	0.06368	31.3	2.6	2.7	202.5	6.3	0.069	0.001	0.009	0.009	30.6	32.22	41	
6/22/05 17:00	0.05963	29.8	1.8	3.1	202.5	5.8	0.061	0.001	0.008	0.008	31.6	31.67	41	
6/22/05 18:00	0.05602	28.9	1	2.2	202.5	5.8	0.057	0	0.007	0.007	34.2	30.56	43	
6/22/05 19:00	0.06342	28.2	1.6	1.8	202.5	4.5	0.049	0	0.013	0.014	33.5	28.33	47	
6/22/05 20:00	0.06766	27	0.7	2.2	180	7.6	0.02	0.003	0.033	0.036	37.3	25.00	62	
6/22/05 21:00	0.07262	26.7	0.2	2.2	180	7.2	0.004	0.012	0.038	0.05	37.6	22.78	73	
6/22/05 22:00	0.0688	26.3	0.9	2.7	180	6.7	0	0.019	0.035	0.054	42	21.67	80	
6/22/05 23:00	0.0597	26.1	0.4	3.6	180	9.4	0.001	0.005	0.026	0.032	36.4	21.11	84	
6/23/05 0:00	0.06488	26.2	0.3	4.5	202.5	10.7	0	0.019	0.02	0.039	36.5	20.00	88	
6/23/05 1:00	0.06536	26.5	0.5	5.4	202.5	9.8	0							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
6/19/05 12:00	180	1.78816	30	21.9	17.8	48	5.14	130	990.86	28.9	27.9	-1
6/19/05 13:00	173	1.78816	30.6	21.8	17.2	45	4.63	130	990.86	29.4	28.4	-1
6/19/05 14:00	146	2.2352	30.6	21.8	17.2	45	5.14	140	990.52	29.7	28.8	-0.9
6/19/05 15:00	135	2.2352	30.6	21.5	16.7	43	5.14	110	990.18	29.8	29	-0.8
6/19/05 16:00	139	2.2352	30	21.6	17.2	46	4.63	130	990.18	29.3	28.3	-0.5
6/19/05 17:00	139	1.78816	29.4	21.8	17.8	50	4.63	110	990.18	28.6	28.3	-0.3
6/19/05 18:00	134	1.78816	27.8	21.5	18.3	56	3.60	120	990.18	27	27.2	0.2
6/19/05 19:00	146	1.34112	25	20.7	18.3	66	2.06	130	990.18	25.1	26	0.9
6/19/05 20:00	160	0.44704	23.9	20.3	18.3	71	2.06	140	991.20	24	25.5	1.4
6/19/05 21:00	216	0	25	20	17.2	62	2.57	180	991.87	23.7	25.1	1.4
6/19/05 22:00	173	0	24.4	19.8	17.2	64	2.06	180	992.21	23.1	24.6	1.4
6/19/05 23:00	195	0	21.1	19	17.8	82	1.54	130	992.21	21.8	24.3	2.5
6/20/05 0:00	199	0	20	18.6	17.8	87	0.00	0	992.21	22.6	24.4	1.8
6/20/05 1:00	91	0	19.4	17.7	16.7	84	2.06	110	992.21	20	21.7	1.6
6/20/05 2:00	180	0	20.6	18.2	16.7	78	0.00	0	992.21	19	22.1	3.1
6/20/05 3:00	210	0	19.4	17.7	16.7	84	0.00	0	992.55	18.6	20.4	1.8
6/20/05 4:00	168	0	18.9	17.9	17.2	90	0.00	0	992.89	18	20.3	2.3
6/20/05 5:00	185	0	19.4	18	17.2	87	0.00	0	993.57	18.2	20.6	2.4
6/20/05 6:00	82	0.44704	21.7	19.5	18.3	81	1.54	90	994.24	21.4	21.2	-0.2
6/20/05 7:00	103	0.44704	24.4	20.2	17.8	67	2.06	180	994.24	23.2	22.5	-0.7
6/20/05 8:00	208	0.89408	26.1	20.4	17.2	58	2.06	180	994.24	25.3	24.3	-1
6/20/05 9:00	230	0.89408	27.8	20.7	16.7	51	2.57	220	994.58	26	25	-1
6/20/05 10:00	220	0.89408	29.4	20.8	16.1	45	1.54	50	994.24	27.8	26.5	-1.2
6/20/05 11:00	103	1.34112	29.4	20.8	16.1	45	3.09	140	993.90	28.5	27.4	-1.1
6/20/05 12:00	78	1.78816	30.6	21.2	16.1	42	2.06	140	993.57	29	28	-1
6/20/05 13:00	63	2.2352	30.6	21.5	16.7	43	2.57	170	992.89	29.7	28.7	-1
6/20/05 14:00	60	2.2352	31.1	20.5	14.4	36	3.09	140	992.55	29.9	29	-0.9
6/20/05 15:00	74	1.78816	31.1	20.5	14.4	36	3.60	110	992.55	29.8	29.1	-0.7
6/20/05 16:00	63	1.78816	30.6	21.5	16.7	43	2.57	100	992.21	29.9	29.4	-0.5
6/20/05 17:00	75	1.34112	30	21.3	16.7	45	3.09	110	991.53	29.4	29.1	-0.3
6/20/05 18:00	89	0.89408	28.3	21.1	17.2	51	2.57	110	991.53	28.4	28.3	-0.1
6/20/05 19:00	158	0.44704	26.1	20.1	16.7	56	2.57	120	991.87	25	26.7	1.7
6/20/05 20:00	164	0	25.6	19.9	16.7	58	2.06	100	992.55	22.9	26.1	3.3
6/20/05 21:00	110	0.44704	24.4	19.5	16.7	62	0.00	0	993.57	21.7	25.5	3.9
6/20/05 22:00	202	0.44704	23.9	19.7	17.2	66	0.00	0	993.57	21.2	24.7	3.5
6/20/05 23:00	191	0	20.6	18.8	17.8	84	1.54	340	993.90	20.6	24.5	3.9
6/21/05 0:00	202	0.44704	21.7	19.9	18.9	84	0.00	0	992.89	19.8	23.6	3.8
6/21/05 1:00	212	0.44704	20.6	19.1	18.3	87	0.00	0	992.55	19.1	22.5	3.4
6/21/05 2:00	131	0	19.4	18.4	17.8	91	2.06	360	993.23	18.7	22.6	3.9
6/21/05 3:00	177	0	20	18.6	17.8	87	2.57	200	992.55	18.8	21.6	2.8
6/21/05 4:00	141	0.44704	19.4	18	17.2	87	0.00	0	993.23	18.4	21.8	3.4
6/21/05 5:00	165	0.44704	19.4	18.4	17.8	91	0.00	0	993.90	19.1	21.2	2.1
6/21/05 6:00	211	0	21.1	19.7	18.9	87	0.00	0	995.26	21.2	21.5	0.3
6/21/05 7:00	183	0	23.9	20.3	18.3	71	0.00	0	995.60	23.8	23.4	-0.4
6/21/05 8:00	148	0.89408	26.7	21.2	18.3	60	2.57	310	995.60	26.2	25.5	-0.6
6/21/05 9:00	279	1.34112	28.3	20.8	16.7	49	2.57	300	995.26	27.7	27	-0.7
6/21/05 10:00	206	1.34112	29.4	20.3	15	42	2.57	180	993.90	28.3	27.3	-1
6/21/05 11:00	235	1.34112	30	20.4	15	40	3.09	180	993.57	28.6	27.7	-1
6/21/05 12:00	172	1.34112	29.4	20.8	16.1	45	2.57	360	993.23	28.5	27.9	-0.7
6/21/05 13:00	222	1.78816	31.1	21.7	16.7	42	3.09	290	992.89	29.5	28.4	-1
6/21/05 14:00	184	1.34112	31.1	21.3	16.1	40	0.00	0	992.55	29.7	28.8	-0.9
6/21/05 15:00	211	1.34112	31.1	21.9	17.2	43	2.06	0	992.21	30	29.2	-0.8
6/21/05 16:00	276	1.34112	31.1	21.9	17.2	43	2.57	330	991.87	29.9	29.2	-0.7
6/21/05 17:00	289	1.78816	30.6	21.5	16.7	43	2.57	140	992.21	29.5	29	-0.5
6/21/05 18:00	295	0.89408	29.3	20.8	16.7	49	3.09	140	992.21	28.7	28.3	-0.3
6/21/05 19:00	269	0.44704	27.2	20.5	16.7	53	1.54	130	992.21	25.3	26.8	1.5
6/21/05 20:00	199	0	26.1	20.4	17.2	58	2.06	110	992.55	23.3	25.8	2.5
6/21/05 21:00	244	0	25	20	17.2	62	2.06	160	992.89	22.3	24.8	2.6
6/21/05 22:00	183	0.44704	22.8	20.3	18.9	79	1.54	300	993.23	21.1	24.9	3.8
6/21/05 23:00	173	0.44704	23.9	20	17.8	69	0.00	0	993.23	21.7	24.2	2.6
6/22/05 0:00	213	0	24.4	20.5	18.3	69	1.54	200	992.55	21.6	23.7	2.1
6/22/05 1:00	114	0.44704	22.2	19.7	18.3	79	0.00	0	992.55	21.5	23.3	1.8
6/22/05 2:00	123	0.44704	21.7	19.5	18.3	81	0.00	0	992.55	20.7	23.4	2.7
6/22/05 3:00	140	0	20.6	18.8	17.8	84	1.54	90	992.89	20	22.9	3
6/22/05 4:00	198	0	21.1	19	17.8	82	0.00	0	993.23	19.3	22.2	2.9
6/22/05 5:00	129	0.44704	21.1	19.3	18.3	84	0.00	0	993.57	19.2	21.3	2.2
6/22/05 6:00	200	0	23.3	20.5	18.9	76	1.54	120	993.90	22.7	22.9	0.3
6/22/05 7:00	84	0.44704	25.6	21.2	18.9	67	2.06	130	994.24	24.8	24.2	-0.7
6/22/05 8:00	198	0.89408	27.8	21.6	18.3	56	3.60	190	994.24	26.6	25.9	-0.8
6/22/05 9:00	204	0.89408	28.9	21.6	17.8	51	2.06	190	994.24	27.8	26.7	-1.1
6/22/05 10:00	222	0.89408	29.4	21.4	17.2	48	2.57	190	993.90	28.8	27.8	-1
6/22/05 11:00	205	1.34112	30.6	21.5	16.7	43	2.06	170	992.21	28.7	28.4	-0.3
6/22/05 12:00	212	1.34112	31.7	22.1	17.2	42	3.09	120	992.55	29.9	28.9	-1
6/22/05 13:00	193	1.34112	31.7	22.1	17.2	42	2.57	130	992.55	30.4	29.5	-1
6/22/05 14:00	203	1.34112	32.2	21.7	16.1	38	3.09	210	992.21	30.4	29.7	-0.8
6/22/05 15:00	194	1.34112	31.7	21.8	16.7	41	2.57	140	991.53	30.6	29.8	-0.7
6/22/05 16:00	206	0.89408	31.1	22.3	17.8	45	3.60	150	991.20	30.5	29.9	-0.7
6/22/05 17:00	197	0.89408	30.6	21.5	16.7	43	4.12	120	991.20	29.6	29.4	-0.3
6/22/05 18:00	187	0.89408	29.4	21.1	16.7	46	4.63	130	991.20	28.3	28.5	0.2
6/22/05 19:00	157	1.34112	26.7	20.6	17.2	56	2.57	140	990.86	26.5	27.4	0.9
6/22/05 20:00	190	0	25	20	17.2	62	2.57	130	991.20	25.4	26.7	1.3
6/22/05 21:00	218	0	26.1	20.7	17.8	60	3.09	150	991.87	24.3	25.9	1.6
6/22/05 22:00	229	0	24.4	20.2	17.8	67	2.57	160	991.53	24.4	25.5	1
6/22/05 23:00	113	0	24.4	19.8	17.2	64	2.06	160	991.53	23.9	25	1.1
6/23/05 0:00	192	0	24.4	19.8	17.2	64	2.57	170	991.20	23.6	24.6	1
6/23/05 1:00	272	0	23.3	19.8	17.8	71	1.54	150	991.20	23.2	24.3	1.1
6/23/05 2:00	244	0	22.8	19.3	17.2	71	2.06	150	990.86	22.8	23.9	1.2
6/23/05 3:00	60	0	21.7	19.2	17.8	79	2.57	170	991.20	22.2	23.4	1.2
6/23/05 4:00	41	0	22.8	19.6	17.8	74	2.06	180	991.87	22.2	23.2	1
6/23/05 5:00	39	0	22.2	19.7	18.3	79	1.54	110	991.87	21.9	22.6	0.9
6/23/05 6:00	116	0	23.3	20.5	18.9	76	2.06	120	991.87	23	23.1	0
6/23/05 7:00	185	1.34112	27.2	21.4	18.3	58	4.12	190	991.87	24.7	24.2	-0.4
6/23/05 8:00	185	1.34112	28.9	21.9	18.3	53	5.14	170	991.87	26.3	25.6	-0.7
6/23/05 9:00	184	1.78816	30.6	22.4	18.3	48	5.14	180	991.53	28.3	27.5	-0.8
6/23/05 10:00	205	1.34112	31.7	23	18.9	47	5.66	170	991.20			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
6/19/05 12:00	52.3	2.1	2.9	0.8	6.1	0.9	147.6	19	943.8	3.4	0	984.36
6/19/05 13:00	50.6	2.1	3	0.9	5.5	0.7	137.3	19.3	921.1	3.32	0	984.12
6/19/05 14:00	50.3	2	2.9	0.9	5.7	0.8	133.3	17.4	842.9	3.03	0	983.82
6/19/05 15:00	48.6	2.1	3	1	5.5	0.7	135.3	16.3	714.4	2.57	0	983.63
6/19/05 16:00	49.7	1.9	2.9	1	6.3	0.8	121.9	13.1	539.9	1.94	0	983.47
6/19/05 17:00	52.1	1.8	2.7	0.9	4.6	0.6	126.3	12	353	1.27	0	983.25
6/19/05 18:00	58.2	1.1	2.1	1	3.5	0.3	113.4	9.2	164.3	0.59	0	983.47
6/19/05 19:00	65.7	0.2	1.6	1.4	3	0.3	136.4	8.1	22.3	0.08	0	983.61
6/19/05 20:00	69.1	0.1	1.5	1.3	2.9	0.2	160.3	8	0	0	0	984.13
6/19/05 21:00	68.4	0.4	1.7	1.3	2.9	0.2	160.3	8.6	0	0	0	984.74
6/19/05 22:00	68.9	0.3	1.5	1.2	2.9	0.3	175.5	8.6	0	0	0	985.14
6/19/05 23:00	74.1	0.1	1.3	1.2	2.4	0.2	148.8	6.9	0	0	0	985.4
6/20/05 0:00	66.4	0.4	1.7	1.3	2.8	0.3	160.6	9.6	0	0	0	985.39
6/20/05 1:00	81.5	0	1	0.9	2.3	0.2	109.3	10	0	0	0	985.32
6/20/05 2:00	88.5	0.3	0.9	0.7	1.6	0.1	117.8	6	0	0	0	985.3
6/20/05 3:00	92	0.1	1	1	1.9	0.2	61.6	7.8	0	0	0	985.55
6/20/05 4:00	93.8	0.2	0.9	0.7	1.5	0.1	82.8	6.2	0.3	0	0	985.94
6/20/05 5:00	95	0.1	0.8	0.7	1.2	0.1	86.1	4.8	40	0.14	0	986.56
6/20/05 6:00	88.7	0.2	1	0.8	1.8	0.2	78.5	9.6	196	0.71	0	987.19
6/20/05 7:00	78.3	0.6	1.2	0.6	2.4	0.3	83.2	14.8	386.3	1.39	0	987.64
6/20/05 8:00	68.3	1	1.4	0.5	4	0.4	134.6	17.7	578	2.08	0	987.74
6/20/05 9:00	66.6	1.5	2.1	0.6	3.9	0.5	201.2	16.1	739.2	2.66	0	987.82
6/20/05 10:00	58.7	1.2	1.7	0.5	3.8	0.6	152.4	22.6	874.5	3.15	0	987.73
6/20/05 11:00	51.8	0.9	1.3	0.4	3.8	0.5	115.8	22.2	947	3.41	0	987.66
6/20/05 12:00	51	1	1.5	0.5	4.4	0.7	68.9	32	971.1	3.5	0	987.28
6/20/05 13:00	49.5	1.1	1.6	0.5	4.3	0.6	124	28.3	949	3.42	0	986.78
6/20/05 14:00	44.9	1.1	1.6	0.6	3.7	0.5	76.6	24.5	855.3	3.08	0	986.37
6/20/05 15:00	46.7	1.2	1.8	0.6	4.2	0.6	57.5	17.8	718.2	2.59	0	985.94
6/20/05 16:00	41.2	0.6	1.1	0.5	2.9	0.3	66.1	17.9	550.5	1.98	0	985.52
6/20/05 17:00	44.3	0.4	1.1	0.7	2.2	0.3	87.9	15.9	361	1.3	0	984.97
6/20/05 18:00	52.3	0.2	1	0.8	2.6	0.2	128.5	8.4	167.3	0.6	0	984.84
6/20/05 19:00	63.3	0.1	1.1	0.9	2	0.2	100.4	8.6	24.5	0.09	0	985.09
6/20/05 20:00	72.8	0.2	0.9	0.7	1.5	0.1	75.7	4.6	0	0	0	985.65
6/20/05 21:00	78.3	0	0.9	0.8	1.3	0.1	91.1	4.3	0	0	0	986.74
6/20/05 22:00	80	0.2	0.8	0.6	1.4	0.2	111.8	8.9	0	0	0	986.91
6/20/05 23:00	78.5	0.3	0.4	0.1	0.9	0.1	74.1	5	0	0	0	987.15
6/21/05 0:00	80	0.2	0.8	0.6	1.9	0.2	163	7.9	0	0	0	986.65
6/21/05 1:00	81.8	0.1	1.2	1	2.2	0.1	205.1	5.5	0	0	0	986.06
6/21/05 2:00	88.3	0.2	1	0.8	2	0.2	241.3	7.7	0	0	0	986.22
6/21/05 3:00	89.6	0.1	0.9	0.9	1.7	0.2	216.2	5.9	0	0	0	985.33
6/21/05 4:00	90.8	0.3	1.2	0.9	2.3	0.2	256.3	8.9	0.1	0	0	986.41
6/21/05 5:00	89	0.2	1.2	1	2.4	0.3	256.2	11	30.7	0.11	0	986.8
6/21/05 6:00	85.4	0.3	1.1	0.7	2.5	0.3	240.1	14.4	153.3	0.55	0	987.87
6/21/05 7:00	76.3	0.8	1.3	0.5	2.5	0.3	235.8	15.2	352.1	1.27	0	988.76
6/21/05 8:00	66.9	1.2	1.7	0.5	3.2	0.5	237.1	16.8	550.2	1.98	0	989.11
6/21/05 9:00	53.3	1.5	2.2	0.6	5.1	0.8	248.9	18.3	757.5	2.73	0	988.78
6/21/05 10:00	50.8	1.7	2.3	0.7	4.7	0.6	196.3	16.5	889.7	3.2	0	987.95
6/21/05 11:00	49.3	1.1	1.6	0.4	4.1	0.5	235.4	28.7	863.8	3.11	0	987.53
6/21/05 12:00	49.9	0.6	1	0.4	2.4	0.4	204.8	22.2	632.7	2.28	0	987.15
6/21/05 13:00	48.3	1.1	1.6	0.4	4.1	0.5	215.2	25.9	955.4	3.44	0	986.78
6/21/05 14:00	48.1	1.1	1.5	0.4	3.2	0.5	189.7	26.7	845.5	3.04	0	986.23
6/21/05 15:00	48	1.4	2	0.6	6.5	0.7	194	22.2	712.5	2.57	0	985.92
6/21/05 16:00	48.3	1.1	1.6	0.5	3.2	0.4	236.7	18.6	532.8	1.92	0	985.63
6/21/05 17:00	51.8	0.6	1.2	0.6	2.5	0.3	243.3	16	339.8	1.22	0	985.5
6/21/05 18:00	57.4	0.1	0.7	0.6	1.5	0.2	239.3	9.1	144.9	0.52	0	985.36
6/21/05 19:00	71.8	0.1	0.3	0.2	1.4	0.1	110.9	4.3	23.7	0.09	0	985.44
6/21/05 20:00	77.3	0.1	0.3	0.3	1.3	0.1	185.7	4.6	0	0	0	985.77
6/21/05 21:00	78.2	0	0.5	0.4	1	0.1	178	3.8	0	0	0	986.09
6/21/05 22:00	86.1	0.2	0.8	0.6	1.5	0.2	225.7	6	0	0	0	986.54
6/21/05 23:00	81.8	0	0.6	0.6	1.7	0.1	172.7	4.9	0	0	0	986.49
6/22/05 0:00	80.7	0.4	1.7	1.3	3.4	0.3	184.4	8.2	0	0	0	986.12
6/22/05 1:00	76.2	0.2	1.2	1	2.5	0.2	189.3	6.5	0	0	0	985.73
6/22/05 2:00	76.8	0	1.1	1.1	1.8	0.1	194	4.2	0	0	0	985.76
6/22/05 3:00	78.9	0	0.7	0.7	1.2	0.1	192.7	4.5	0	0	0	985.98
6/22/05 4:00	81.4	0.2	0.7	0.5	1.5	0.1	121.4	5	0.2	0	0	986.25
6/22/05 5:00	88.5	0.2	0.8	0.5	1.5	0.1	74.6	7.9	32.9	0.12	0	986.7
6/22/05 6:00	83.9	0.2	0.9	0.7	2.5	0.2	88	8.6	176.9	0.64	0	987.18
6/22/05 7:00	72.9	0.7	1.2	0.5	3.1	0.3	116.8	15.1	363.2	1.31	0	987.6
6/22/05 8:00	62.4	1.5	2	0.6	3.8	0.5	175.5	13.9	552.3	1.99	0	987.59
6/22/05 9:00	60.4	1.6	2.2	0.6	4.1	0.6	155.9	15.7	709.7	2.55	0	987.65
6/22/05 10:00	55.9	1.8	2.5	0.7	5.3	0.6	160.7	15.1	860.2	3.1	0	987.55
6/22/05 11:00	52.8	1.6	2.3	0.7	4.9	0.7	164.3	19.2	884.7	3.18	0	987.02
6/22/05 12:00	51.8	1.8	2.6	0.8	4.8	0.7	164	17.3	914.8	3.29	0	986.56
6/22/05 13:00	50.3	1.4	2	0.5	4.3	0.6	177.3	20.3	865.1	3.11	0	986.16
6/22/05 14:00	49.7	1.3	1.8	0.5	4.4	0.6	168.3	21.9	719.5	2.59	0	985.7
6/22/05 15:00	49.2	1.5	2.1	0.6	4	0.6	176.6	17	654.4	2.36	0	984.98
6/22/05 16:00	50	1.6	2.4	0.8	4.2	0.5	175.2	13.8	560.5	2.02	0	984.52
6/22/05 17:00	53	1.4	2.3	0.9	4.5	0.5	176.3	10.3	341.3	1.23	0	984.27
6/22/05 18:00	57.8	0.7	1.6	1	2.7	0.3	163.4	8.2	148.3	0.53	0	984.26
6/22/05 19:00	59.9	0.4	1.4	1.1	2.6	0.3	159.6	11.4	22.3	0.08	0	984.18
6/22/05 20:00	59.2	0.8	2	1.1	2.9	0.3	155.4	8.3	0	0	0	984.3
6/22/05 21:00	63.4	0.8	2.2	1.4	4	0.4	140.7	10.1	0	0	0	984.67
6/22/05 22:00	64.7	1.4	2.5	1.1	4.1	0.4	152	9.3	0	0	0	984.77
6/22/05 23:00	65.9	0.9	1.8	0.9	3.4	0.4	160.8	12.6	0	0	0	984.59
6/23/05 0:00	66.9	0.8	1.7	1	3.3	0.4	167.3	11.5	0	0	0	984.31
6/23/05 1:00	68.3	0.6	1.7	1.1	3.1	0.3	168.1	9.6	0	0	0	984.2
6/23/05 2:00	69.2	0.8	1.9	1.1	3.5	0.4	175	10.1	0	0	0	984.05
6/23/05 3:00	72.8	0.9	2	1.1	3.6	0.4	181.1	9.2	0	0	0	984.13
6/23/05 4:00	75.7	1.2	2.4	1.1	4.1	0.4	181.2	9.3	0.2	0	0	984.55
6/23/05 5:00	77.2	0.7	1.9	1.2	3.3	0.4	183.6	10.2	30.3	0.11	0	984.92
6/23/05 6:00	76.8	1.2	2.1	0.9	4	0.4	160.5	10	162	0.58	0	984.82
6/23/05 7:00	71.3	1.7	2.4	0.7	4.5	0.5	158.3	11.3	345.8	1.25	0	984.96
6/23/05 8:00	66.6	2.7	3.7	1	6.4	0.8	183.1	11.6	536.2	1.93	0	984.88
6/23/05 9:00	60.5	2.7	3.8	1.1	6.5	0.8	158.2	12.9	695.5	2.5	0	984.74
6/23/05 10:00	56.5	2.5	3.4	1	6.3	0.8	158.2	14.8	825.9	2.97	0	984.55
6/23/05 11:00	51.9	2.9	4	1.1	6.8	0.9	152.7	15.4	897.3	3.23	0	984.29
6/23/05 12:00	49.7	2.8	3.8	1.1	6.3	0.8	155.7	15.4	917.3	3.3	0	983.79
6/23/05 13:00	47.8	2.8	3.9	1.2	7.1	0.8	193.7	13.9	881.8	3.17	0	983.14
6/23/05 14:00	48.1	2.7	4	1.2	7.5	0.9	167.2	13.2	779.1	2.8	0	982.72
6/23												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
6/24/05 3:00	0.03772	25.1	1	11.2	202.5	14.3	0.047	0	0.006	0.006	53.4	25.00	67	
6/24/05 4:00	0.0425	24.4	0.8	10.7	202.5	14.3	0.038	0.001	0.012	0.013	54.1	24.44	69	
6/24/05 5:00	0.05947	24.2	0.9	9.8	202.5	12.5	0.03	0.001	0.021	0.022	48	23.89	71	
6/24/05 6:00	0.05739	23.8	0.4	9.8	202.5	12.5	0.038	0.001	0.014	0.015	49.1	25.00	67	
6/24/05 7:00	0.0498	24.2	1.4	9.8	202.5	13.9	0.041	0.002	0.016	0.018	53.3	26.67	61	
6/24/05 8:00	0.04759	24.7	2.5	7.6	202.5	13.4	0.052	0.001	0.013	0.014	43.9	29.44	56	
6/24/05 9:00	0.04753	28	4.3	3.6	180	9.8	0.059	0.001	0.011	0.012	44.7	30.56	52	
6/24/05 10:00	0.05161	30.7	4.5	2.7	202.5	6.3	0.065	0.001	0.009	0.01	41.7	32.22	49	
6/24/05 11:00	0.06524	32	4.6	2.7	180	7.2	0.069	0.001	0.007	0.007	39.9	32.78	46	
6/24/05 12:00	0.06872	32.6	2.7	4.5	180	8.9	0.068	0	0.005	0.006	38.9	33.33	43	
6/24/05 13:00	0.06737	33.8	4.1	4	202.5	9.8	0.067	0	0.005	0.006	35	33.89	42	
6/24/05 14:00	0.06173	33.4	4.2	3.6	202.5	9.4	0.065	0	0.006	0.006	36.3	32.78	44	
6/24/05 15:00	0.06684	32.1	2.2	4.5	202.5	9.4	0.065	0.001	0.006	0.007	35.4	33.89	41	
6/24/05 16:00	0.06719	31.9	2.4	4.9	202.5	8.9	0.066	0.001	0.007	0.007	39.1	33.33	41	
6/24/05 17:00	0.06583	31.3	1.1	4.5	202.5	8.5	0.063	0.001	0.01	0.011	42	33.33	42	
6/24/05 18:00	0.06701	30.7	1.1	4.5	202.5	7.2	0.062	0	0.008	0.009	44.6	32.22	45	
6/24/05 19:00	0.06637	29.8	1.5	3.6	202.5	8	0.055	0	0.012	0.012	45.5	30.56	49	
6/24/05 20:00	0.07031	28.9	0.8	3.1	202.5	8.5	0.045	0.001	0.02	0.021	49.3	28.89	55	
6/24/05 21:00	0.07523	28.6	0.4	3.1	180	7.2	0.023	0.005	0.034	0.04	47.6	26.67	64	
6/24/05 22:00	0.07208	28.4	0.4	3.6	180	9.8	0.003	0.015	0.043	0.058	50.7	25.00	75	
6/24/05 23:00	0.03601	28	1	4	180	10.7	0.009	0.01	0.033	0.043	53.9	24.44	76	
6/25/05 0:00	0.0566	27.2	1	4.9	202.5	10.3	0.008	0.001	0.027	0.028	54.5	24.44	76	
6/25/05 1:00	0.04913	26.6	1	6.7	202.5	10.3	0.019	0.003	0.02	0.023	48.6	23.89	76	
6/25/05 2:00	0.06954	27.6	1.1	9.4	202.5	11.2	0.011	0.004	0.022	0.026	45	23.33	80	
6/25/05 3:00	0.05934	26.4	1.4	7.6	202.5	10.3	0.009	0.001	0.018	0.019	39.5	22.22	85	
6/25/05 4:00	0.06425	26.3	0.7	10.3	202.5	13	0.007	0.002	0.015	0.018	41.3	22.22	85	
6/25/05 5:00	0.06039	26	1	9.8	180	13	0.01	0.004	0.017	0.021	46.9	22.22	84	
6/25/05 6:00	0.05492	25.1	1.5	8.9	202.5	12.1	0.024	0.003	0.018	0.021	47.9	24.44	73	
6/25/05 7:00	0.04924	24.7	1.1	7.2	202.5	10.3	0.041	0.001	0.01	0.011	46.3	27.22	63	
6/25/05 8:00	0.04829	26	1.8	5.4	202.5	9.4	0.05	0.001	0.01	0.011	42.8	28.89	58	
6/25/05 9:00	0.03551	27.8	3.7	4.5	202.5	7.2	0.054	0.002	0.013	0.015	46.2	30.56	55	
6/25/05 10:00	0.04498	30.3	4.4	2.7	202.5	6.3	0.064	0.002	0.012	0.013	47.3	31.67	52	
6/25/05 11:00	0.05623	33.4	7.4	2.7	202.5	6.3	0.075	0.001	0.01	0.011	47.3	32.78	48	
6/25/05 12:00	0.06717	36.7	4.7	2.2	202.5	5.4	0.079	0.001	0.007	0.008	42.8	33.33	45	
6/25/05 13:00	0.07292	36.6	3.9	2.7	202.5	5.8	0.077	0	0.006	0.007	41.4	33.89	43	
6/25/05 14:00	0.07372	36	5.8	2.2	202.5	5.8	0.073	0	0.007	0.007	41	33.33	45	
6/25/05 15:00	0.0709	34.6	3.7	2.2	202.5	7.2	0.07	0	0.007	0.007	43.3	33.89	42	
6/25/05 16:00	0.06785	32.9	2.8	3.1	202.5	8.5	0.069	0	0.006	0.007	42.2	34.44	39	
6/25/05 17:00	0.06205	32.3	1.2	2.7	202.5	5.4	0.068	0	0.007	0.007	40.8	33.89	39	
6/25/05 18:00	0.06634	31.7	2.5	2.7	202.5	7.2	0.064	0	0.008	0.008	41.3	31.67	45	
6/25/05 19:00	0.07436	29.7	1	2.7	135	10.3	0.059	0	0.013	0.013	44.5	30.56	48	
6/25/05 20:00	0.07366	28.6	0.9	2.7	135	7.2	0.044	0.001	0.02	0.021	47.3	28.33	58	
6/25/05 21:00	0.06977	27.9	0.4	2.7	157.5	7.2	0.021	0.004	0.034	0.038	46.2	26.11	68	
6/25/05 22:00	0.07154	27.9	1	2.7	180	8	0.004	0.019	0.042	0.061	55.1	25.00	75	
6/25/05 23:00	0.059	27.3	0.3	2.7	112.5	8	0.013	0.002	0.026	0.029	59.1	24.44	78	
6/26/05 0:00	0.0655	27.5	0.5	3.1	180	8	0.001	0.011	0.029	0.039	53.9	23.33	84	
6/26/05 1:00	0.05763	26.8	1.3	3.6	180	8.5	0	0.012	0.023	0.035	50.8	22.78	88	
6/26/05 2:00	0.05179	25.8	0.8	3.6	180	9.4	0.004	0.013	0.021	0.034	48.3	22.78	88	
6/26/05 3:00	0.04553	25.9	1.1	7.2	202.5	10.7	0.009	0.004	0.016	0.021	47.8	22.78	85	
6/26/05 4:00	0.04297	25.3	1.8	6.7	202.5	9.4	0.009	0.001	0.011	0.012	49.7	21.67	88	
6/26/05 5:00	0.05391	25.7	0.5	9.4	202.5	12.5	0.007	0.003	0.013	0.016	51.7	21.67	87	
6/26/05 6:00	0.05286	25.2	1	8.9	202.5	12.5	0.016	0.004	0.011	0.015	49.6	23.89	79	
6/26/05 7:00	0.0496	25.3	1	8.9	202.5	11.6	0.04	0.001	0.007	0.008	46.7	27.22	64	
6/26/05 8:00	0.04929	26.1	2.7	6.3	202.5	10.7	0.049	0.001	0.007	0.008	50.3	28.89	57	
6/26/05 9:00	0.04985	27.6	2.6	4.9	202.5	8.5	0.047	0.001	0.011	0.01	53	30.56	53	
6/26/05 10:00	0.05601	30.6	5.9	2.2	180	5.4	0.072	0.001	0.01	0.01	50.9	31.11	51	
6/26/05 11:00	0.06703	34.4	5.9	1.8	202.5	4.5	0.08	0	0.008	0.008	48.6	32.78	46	
6/26/05 12:00	0.07121	37.2	6.5	1.8	202.5	4.5	0.076	0	0.004	0.005	41.3	33.89	42	
6/26/05 13:00	0.07875	38.1	5.9	1.8	202.5	4.9	0.073	0	0.004	0.004	39.5	33.89	40	
6/26/05 14:00	0.07533	35.7	5.7	2.2	202.5	6.3	0.07	0	0.006	0.006	37.5	34.44	38	
6/26/05 15:00	0.06812	35.1	4.1	1.8	202.5	7.2	0.067	0	0.005	0.005	39.1	35.00	38	
6/26/05 16:00	0.07043	33.8	4.7	2.7	202.5	6.3	0.066	0.001	0.006	0.006	38.9	34.44	37	
6/26/05 17:00	0.06838	32.8	2.3	2.7	202.5	5.8	0.065	0.001	0.007	0.007	41	34.44	39	
6/26/05 18:00	0.06194	31.9	1.5	2.7	202.5	5.4	0.058	0	0.01	0.011	38.6	33.33	43	
6/26/05 19:00	0.06383	30.7	1	3.1	202.5	5.8	0.045	0.001	0.017	0.018	38.7	31.11	48	
6/26/05 20:00	0.06633	29.9	0.6	3.1	202.5	5.8	0.025	0.002	0.031	0.034	42.2	28.33	59	
6/26/05 21:00	0.06877	29.6	0.5	3.6	202.5	7.6	0.026	0.002	0.026	0.028	43.9	27.22	64	
6/26/05 22:00	0.06737	29	1.5	4	180	11.6	0.042	0	0.013	0.014	47.1	27.78	60	
6/26/05 23:00	0.05768	27.9	0.9	4.5	202.5	10.7	0.045	0	0.008	0.008	29.3	27.78	60	
6/27/05 0:00	0.05676	28	1.3	7.6	202.5	12.1	0.037	0	0.01	0.01	44.3	26.11	66	
6/27/05 1:00	0.04476	26.8	1.1	7.6	202.5	10.3	0.034	0	0.01	0.01	50.6	25.56	70	
6/27/05 2:00	0.05443	26.8	1.1	7.6	202.5	10.3	0.034	0	0.012	0.012	49.4	24.44	75	
6/27/05 3:00	0.06143	26.7	1.3	9.8	180	13	0.035	0	0.01	0.01	48.8	25.00	71	
6/27/05 4:00	0.05613	25.6	1.3	9.4	202.5	12.5	0.035	0	0.013	0.013	40.8	25.00	69	
6/27/05 5:00	0.05334	25	1.2	9.4	202.5	12.5	0.035	0	0.013	0.013	46.9	24.44	70	
6/27/05 6:00	0.05386	25.1	0.8	10.3	202.5	13	0.03	0.002	0.02	0.022	54.4	25.56	66	
6/27/05 7:00	0.0406	25.1	1.3	8.5	202.5	11.6	0.039	0.003	0.021	0.024	48.5	27.78	58	
6/27/05 8:00	0.05098	26.3	1.9	7.2	180	13	0.055	0.002	0.012	0.014	51.9	29.44	52	
6/27/05 9:00	0.06236	27.9	3.8	3.6	180	9.8	0.064	0.001	0.01	0.011	48.3	31.11	48	
6/27/05 10:00	0.06476	30	3.5	2.2	180	8	0.067	0.001	0.008	0.008	47.8	32.22	46	
6/27/05 11:00	0.06779	31.6	2.9	3.1	180	7.2	0.065	0	0.003	0.004	40.1	32.78	44	
6/27/05 12:00	0.06542	34.6	5	3.1	0	8	0.065	0	0.003	0.003	37.4	33.89	43	
6/27/05 13:00	0.06066	35.9	3.1	2.7	0	8.9	0.069	0	0.003	0.004	39.1	33.89	42	
6/27/05 14:00	0.06894	34.7	3.7	3.6	180	8.5	0.07	0	0.005	0.005	38.4	34.44	41	
6/27/05 15:00	0.06691	32.7	3	3.1	180	9.4	0.069	0	0.005	0.006	41.1	35.00	39	
6/27/05 16:00	0.06979	32.4	2.1	3.1	1									

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
6/24/05 3:00	209	0.89408	25	20.7	18.3	66	3.60	170	988.83	23.6	24.3	0.7
6/24/05 4:00	173	0.44704	23.9	20.3	18.3	71	2.06	160	989.16	23.2	23.8	0.6
6/24/05 5:00	185	0.89408	24.4	20.5	18.3	69	4.12	180	989.16	23.1	23.6	0.5
6/24/05 6:00	203	1.34112	26.1	21	18.3	62	5.66	180	989.84	23.6	23.6	0
6/24/05 7:00	197	1.78816	27.2	21.4	18.3	58	5.66	200	990.18	25.2	24.8	-0.4
6/24/05 8:00	211	1.34112	29.4	22.7	19.4	55	4.63	190	990.18	27	26.4	-0.7
6/24/05 9:00	198	1.34112	30.6	23	19.4	51	4.12	180	990.52	28.7	28	-0.8
6/24/05 10:00	215	1.34112	32.2	23.5	19.4	47	3.60	210	990.18	30.1	29.2	-0.9
6/24/05 11:00	209	1.34112	32.8	23	18.3	42	4.63	200	989.84	30.9	30	-0.9
6/24/05 12:00	214	1.34112	33.3	23.5	18.9	43	4.63	190	989.16	31.5	30.8	-0.8
6/24/05 13:00	197	1.34112	33.9	23.6	18.9	41	7.20	190	988.83	31.8	31.1	-0.7
6/24/05 14:00	197	1.78816	33.9	23	17.8	38	5.14	220	988.49	32	31.4	-0.6
6/24/05 15:00	200	1.78816	33.3	23.5	18.9	43	6.17	170	988.15	32	31.5	-0.5
6/24/05 16:00	202	1.34112	33.3	23.1	18.3	41	5.66	180	987.81	31.7	31.3	-0.4
6/24/05 17:00	193	1.34112	32.8	23	18.3	42	6.17	180	987.81	31.1	30.9	-0.2
6/24/05 18:00	180	1.78816	31.7	23	18.9	47	5.14	180	987.47	29.7	30	0.3
6/24/05 19:00	173	1.34112	30.6	22.7	18.9	50	2.57	160	987.81	27.9	29.1	1.2
6/24/05 20:00	165	0.89408	27.2	22.4	20	65	2.57	140	988.15	26	28.3	2.4
6/24/05 21:00	110	0	26.7	22.2	20	67	2.57	140	988.83	26	27.7	1.7
6/24/05 22:00	125	0	26.1	22	20	69	2.57	140	989.16	26.1	27.1	0.9
6/24/05 23:00	184	0	26.7	22.2	20	67	3.60	150	988.83	25.4	26.3	0.9
6/25/05 0:00	206	0.44704	28.1	21.7	19.4	67	3.60	150	988.83	24.7	25.4	0.8
6/25/05 1:00	192	0.44704	25.6	21.2	18.9	67	2.57	170	988.49	24	24.9	0.8
6/25/05 2:00	131	0	24.4	20.8	18.9	72	2.06	150	988.83	23.7	24.6	0.9
6/25/05 3:00	139	0	25	21	18.9	69	2.57	170	988.83	23.1	24.1	1
6/25/05 4:00	100	0.44704	22.8	20.3	18.9	79	2.57	110	989.16	23.3	24.2	1
6/25/05 5:00	152	0.44704	23.3	20.5	18.9	76	3.09	150	989.16	23.3	24.1	0.8
6/25/05 6:00	176	0.89408	25.6	21.2	18.9	67	2.06	180	990.18	24.4	24.3	-0.1
6/25/05 7:00	192	0.89408	27.8	22.2	18.9	60	4.12	180	990.86	25.8	25.2	-0.6
6/25/05 8:00	195	1.34112	28.9	22.5	19.4	57	4.12	190	990.86	26.9	26.1	-0.8
6/25/05 9:00	195	0.89408	30.6	23.4	20	53	3.09	190	990.52	28.6	27.7	-1
6/25/05 10:00	197	1.34112	31.1	23.9	20.6	54	3.60	210	990.52	29.9	28.9	-1
6/25/05 11:00	203	1.34112	32.8	23.6	19.4	45	4.63	200	990.18	30.9	29.9	-1
6/25/05 12:00	211	1.34112	33.3	23.8	19.4	44	3.09	200	989.84	31.8	30.9	-0.9
6/25/05 13:00	200	1.34112	32.8	23.6	19.4	45	4.12	180	989.16	31.9	31.3	-0.7
6/25/05 14:00	208	1.34112	33.3	23.5	18.9	43	3.60	210	988.49	31.7	31.1	-0.5
6/25/05 15:00	201	1.34112	33.9	23.3	18.3	40	3.09	160	988.15	31.1	30.6	-0.5
6/25/05 16:00	209	0.89408	33.3	22.6	17.2	38	2.57	160	987.47	31.4	30.8	-0.5
6/25/05 17:00	189	1.34112	31.7	23.3	19.4	48	3.60	170	987.47	31.2	30.8	-0.4
6/25/05 18:00	165	1.78816	30.6	22.4	18.3	48	3.09	140	987.47	30.9	30.8	-0.2
6/25/05 19:00	164	1.34112	28.9	22.5	19.4	57	2.06	140	987.81	28.7	29.3	0.6
6/25/05 20:00	168	0.44704	27.8	22.6	20	63	2.06	130	988.49	27.1	28.2	1.1
6/25/05 21:00	138	0	27.8	22.6	20	63	3.09	150	989.16	26.1	27.4	1.3
6/25/05 22:00	72	0.44704	26.1	22.4	20.6	72	2.57	150	989.50	26	27.1	1.1
6/25/05 23:00	88	0.44704	25	22.1	20.6	77	2.57	140	989.50	25.8	26.8	1
6/26/05 0:00	98	0	25	22.1	20.6	77	2.06	130	989.50	25.4	26.2	0.8
6/26/05 1:00	190	0	25.6	22.2	20.6	74	2.57	160	989.16	24.7	25.3	0.6
6/26/05 2:00	176	0	23.9	21.3	20	79	4.12	130	988.83	24.5	25.1	0.6
6/26/05 3:00	126	0.44704	25	21.3	19.4	71	3.09	180	988.83	23.5	24	0.5
6/26/05 4:00	112	0.44704	23.3	20.8	19.4	79	0.00	0	989.50	23	23.7	0.7
6/26/05 5:00	140	0	24.4	21.1	19.4	74	2.06	170	989.50	22.8	23.5	0.7
6/26/05 6:00	171	0.44704	25.6	21.5	19.4	69	2.06	170	989.84	24.3	24.2	-0.1
6/26/05 7:00	181	1.34112	27.2	22	19.4	62	4.12	170	990.52	25.6	25.1	-0.5
6/26/05 8:00	195	1.34112	28.9	22.5	19.4	57	4.63	180	990.18	27.1	26.4	-0.8
6/26/05 9:00	207	0.89408	30.6	23	19.4	51	3.60	180	990.18	28.6	27.6	-0.9
6/26/05 10:00	195	1.34112	31.7	23.3	19.4	48	2.06	170	989.84	30.3	29.3	-1
6/26/05 11:00	231	1.34112	33.3	23.5	18.9	43	2.57	170	989.84	31.5	30.5	-1
6/26/05 12:00	238	1.34112	33.9	23.6	18.9	41	4.12	210	989.16	32.2	31.3	-0.9
6/26/05 13:00	226	0.89408	33.9	23	17.8	38	4.12	200	988.49	32.6	31.8	-0.8
6/26/05 14:00	198	1.34112	33.9	23	17.8	38	3.60	180	987.81	33.1	32.3	-0.8
6/26/05 15:00	206	0.89408	34.4	23.4	18.3	38	4.12	180	987.47	33	32.3	-0.7
6/26/05 16:00	209	0.89408	34.4	23.2	17.8	37	5.14	150	987.47	32.5	32.1	-0.5
6/26/05 17:00	203	0.89408	33.3	23.1	18.3	41	4.63	180	987.13	31.9	31.6	-0.3
6/26/05 18:00	204	0.44704	32.2	22.8	18.3	44	3.60	150	987.13	30.5	30.6	0.1
6/26/05 19:00	179	0.89408	31.1	22.5	18.3	46	2.57	170	987.47	27.8	29.4	1.6
6/26/05 20:00	162	0.44704	27.8	22.5	20	63	3.09	140	987.81	27.2	28.8	1.6
6/26/05 21:00	159	0.44704	28.3	22.7	20	61	3.09	140	988.49	27.2	28.3	1.1
6/26/05 22:00	168	0.89408	28.9	22.2	18.9	55	3.60	160	988.83	26.5	27.3	0.8
6/26/05 23:00	181	0.89408	27.8	21.9	18.9	58	3.09	160	988.49	25.6	26.5	0.9
6/27/05 0:00	180	0.44704	25.6	21.5	19.4	69	2.57	150	988.83	24.5	26	1.5
6/27/05 1:00	196	0.44704	26.7	21.9	19.4	64	3.09	180	988.83	23.7	25.1	1.4
6/27/05 2:00	207	0.44704	25	21.3	19.4	71	2.57	140	988.49	24.1	25	0.9
6/27/05 3:00	194	0.89408	24.4	21.1	19.4	74	3.60	140	988.83	23.6	24.3	0.8
6/27/05 4:00	185	0.89408	24.4	21.1	19.4	74	4.12	170	988.83	23	23.7	0.7
6/27/05 5:00	208	0.44704	25	21.3	19.4	71	3.60	170	989.50	22.3	23.2	0.9
6/27/05 6:00	196	0.89408	26.7	21.6	18.9	62	4.12	180	989.84	24	24.1	0
6/27/05 7:00	207	1.34112	27.8	21.5	18.3	56	4.12	180	990.18	25.5	25.1	-0.3
6/27/05 8:00	212	1.34112	30	22.2	18.3	50	4.63	220	990.52	27.4	26.8	-0.6
6/27/05 9:00	208	1.34112	31.1	22.5	18.3	46	6.69	210	990.52	29.1	28.3	-0.8
6/27/05 10:00	222	1.34112	32.2	22.8	18.3	44	5.14	230	990.18	30.1	29.2	-0.9
6/27/05 11:00	228	1.78816	32.8	22.7	17.8	41	6.17	250	990.18	30.9	30	-0.8
6/27/05 12:00	219	1.34112	33.3	23.2	18.3	41	5.14	210	989.50	31.6	30.8	-0.8
6/27/05 13:00	231	1.78816	33.9	23.3	18.3	40	5.66	210	989.16	32.2	31.4	-0.8
6/27/05 14:00	208	1.34112	34.4	23.8	18.9	40	6.17	180	988.15	32.5	31.8	-0.7
6/27/05 15:00	208	1.34112	34.4	23.2	17.8	37	5.14	210	987.47	32.6	32	-0.6
6/27/05 16:00	222	1.34112	33.9	23.3	18.3	40	5.66	180	987.13	32.3	31.9	-0.4
6/27/05 17:00	209	1.34112	33.3	23.1	18.3	41	5.66	210	986.79	31.6	31.4	-0.2
6/27/05 18:00	197	1.34112	32.8	22.7	17.8	41	5.14	180	987.13	30.2	30.6	0.3
6/27/05 19:00	176	1.34112	31.7	22.7	18.3	45	3.09	160	987.47	28.6	29.6	1
6/27/05 20:00	124	0.44704	27.2	22.4	20	65	2.57	140	988.15	27.9	29.1	1.2
6/27/05 21:00	44	0	27.8	22.2	19.4	60	3.09	150	988.49	27.5	28.7	1.2
6/27/05 22:00	139	0.89408	28.3	22.3	19.4	59	4.63	160	988.49	26.8	27.7	0.9
6/27/05 23:00	198	0.44704	27.8	22.2	19.4	60	4.12	170	988.15	26.3	27.1	0.8
6/28/05 0:00	169	0	26.7	21.9								

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{TOT} (%)	PCPN (in)	P _{A65} (hPa)
6/24/05 3:00	72.5	2	3.3	1.2	5.4	0.5	154.4	9.6	0	0	0	981.72
6/24/05 4:00	74	1.8	3	1.1	5.1	0.5	149.8	10.2	0.2	0	0	981.94
6/24/05 5:00	74.3	2	3	1.1	5.2	0.6	180.7	11.1	30.1	0.11	0	982.24
6/24/05 6:00	74.2	2.4	3.5	1.1	6.1	0.7	163	10.9	161.7	0.58	0	982.38
6/24/05 7:00	71.2	2	2.9	0.9	5.2	0.6	166.6	11.5	342.3	1.23	0	983.09
6/24/05 8:00	66.6	2.3	3.3	1	5.6	0.7	170.4	12.3	53.3	1.92	0	983.3
6/24/05 9:00	60.6	2.7	3.8	1.2	6.3	0.8	174	13	694.8	2.5	0	983.37
6/24/05 10:00	57.2	2.7	3.9	1.2	6.5	0.8	171.5	14.1	823.6	2.96	0	983.34
6/24/05 11:00	53.9	2.8	4	1.2	7	0.9	179.6	13.4	897.1	3.23	0	983.17
6/24/05 12:00	51.1	3	4.3	1.3	7.2	0.9	175.5	13.3	915.2	3.29	0	982.72
6/24/05 13:00	50.5	3.2	4.6	1.4	8.1	1	175.2	13.3	851.1	3.06	0	982.22
6/24/05 14:00	49.8	3.2	4.5	1.3	7.3	0.9	161.8	13.7	807.8	2.91	0	981.88
6/24/05 15:00	47.7	2.9	4.2	1.2	6.7	0.8	160.8	12.4	675.8	2.43	0	981.61
6/24/05 16:00	49.5	2.5	3.7	1.1	6.5	0.8	167.9	12	501.6	1.81	0	981.29
6/24/05 17:00	52.6	2	3	1	5.2	0.6	161.7	10.5	319.7	1.15	0	980.96
6/24/05 18:00	58.2	1.1	2.1	1	4.7	0.4	162.1	9.7	138	0.5	0	980.82
6/24/05 19:00	63.3	0.1	1.4	1.2	2.6	0.2	145.8	8	19.6	0.07	0	981.05
6/24/05 20:00	68.5	0	1.3	1.3	1.9	0.2	127.7	5.4	0	0	0	981.2
6/24/05 21:00	69.2	0.8	2.2	1.4	3.9	0.3	133.9	7.6	0	0	0	981.8
6/24/05 22:00	67.7	1.2	2.4	1.1	3.7	0.4	139.8	9.4	0	0	0	982.17
6/24/05 23:00	70.8	1.1	2.2	1.1	3.9	0.4	145.1	10.3	0	0	0	982.29
6/25/05 0:00	74	1.4	2.5	1.2	4.2	0.4	141.5	9.4	0	0	0	982.06
6/25/05 1:00	75.5	0.9	1.8	1	3.5	0.4	161.7	11.5	0	0	0	981.9
6/25/05 2:00	75.7	1.1	2.2	1.2	3.7	0.3	178.5	9.9	0	0	0	981.85
6/25/05 3:00	78.5	0.7	1.9	1.2	3.2	0.3	164.8	8.9	0	0	0	981.99
6/25/05 4:00	77.7	1.2	2.5	1.2	3.9	0.4	158.8	8.6	0.2	0	0	982.02
6/25/05 5:00	76.8	1.2	2.4	1.2	4.4	0.4	156.6	10.5	28.6	0.1	0	982.26
6/25/05 6:00	75.6	0.6	1.3	0.7	2.9	0.3	169.9	15.1	145.5	0.52	0	982.87
6/25/05 7:00	71.6	1.4	1.9	0.6	4.2	0.5	173.7	14.8	329.6	1.19	0	983.62
6/25/05 8:00	68.9	2.2	3	0.9	5.3	0.6	161.6	13.2	509.8	1.84	0	983.96
6/25/05 9:00	64.1	2	2.9	0.9	4.9	0.6	159.6	14.2	676	2.43	0	983.72
6/25/05 10:00	61.1	2.1	2.9	0.8	5.1	0.7	165	14.3	804.9	2.9	0	983.75
6/25/05 11:00	57.1	2.2	3	0.9	5.2	0.7	177	15.3	883.8	3.18	0	983.55
6/25/05 12:00	53.8	1.7	2.4	0.7	4.6	0.7	182.8	18.5	865.8	3.12	0	983.27
6/25/05 13:00	50.8	1.4	2.1	0.7	4.9	0.5	162.8	16.1	693.8	2.5	0	982.81
6/25/05 14:00	52.3	1.7	2.4	0.8	4.7	0.6	125.8	15.4	502.2	1.81	0	982.31
6/25/05 15:00	56.8	1.3	2	0.7	3.4	0.4	139.1	12.4	453.3	1.63	0	981.77
6/25/05 16:00	55.2	1.4	2.3	0.9	4.1	0.5	108.2	13	468.1	1.69	0	981.26
6/25/05 17:00	56.3	0.8	1.4	0.6	2.6	0.3	114.8	10.2	326.1	1.17	0	980.82
6/25/05 18:00	56.8	0.2	1.1	0.9	2.7	0.2	132.9	10.8	161.1	0.58	0	980.77
6/25/05 19:00	58.8	0.9	1.9	1	4.3	0.5	143.2	13	19.7	0.07	0	981.02
6/25/05 20:00	61.8	0.5	1.7	1.1	2.7	0.3	157.3	9.9	0	0	0	981.61
6/25/05 21:00	67.1	0.6	2.1	1.4	3.4	0.3	139.6	7.9	0	0	0	982.22
6/25/05 22:00	68.8	1	2.2	1.2	3.3	0.4	148.3	8.5	0	0	0	982.58
6/25/05 23:00	70.1	1.2	2.4	1.1	3.7	0.4	149.1	8.5	0	0	0	982.64
6/26/05 0:00	72.3	1.5	2.7	1.2	4.1	0.4	145.6	8.8	0	0	0	982.58
6/26/05 1:00	74.9	1.6	2.7	1.1	4.5	0.5	146	10.4	0	0	0	982.25
6/26/05 2:00	74.3	1.3	2.1	0.8	4.1	0.5	162.6	13.5	0	0	0	982.05
6/26/05 3:00	80.3	1.5	2.6	1.1	4.6	0.5	144.1	11.2	0	0	0	982.1
6/26/05 4:00	81.6	1.3	2.2	1	4.4	0.4	178.9	10	0.1	0	0	982.26
6/26/05 5:00	82.4	0.6	1.7	1	3.1	0.3	164	10.8	33.3	0.12	0	982.58
6/26/05 6:00	76.4	1.4	2.1	0.8	4	0.5	169.6	12.6	163.1	0.59	0	982.84
6/26/05 7:00	71.9	1.7	2.4	0.7	4.7	0.6	166.8	15	323.8	1.17	0	983.42
6/26/05 8:00	68.1	1.9	2.7	0.8	5.1	0.6	186.6	15	512	1.84	0	983.64
6/26/05 9:00	62.6	2	2.9	0.9	5.7	0.6	162.5	14.1	670.8	2.42	0	983.38
6/26/05 10:00	59.4	1.4	2	0.6	4.2	0.7	169.1	19.2	806.2	2.9	0	983.3
6/26/05 11:00	55.3	1.6	2.2	0.6	4.1	0.6	191	19	885.7	3.19	0	983.18
6/26/05 12:00	50.8	1.7	2.4	0.7	5.4	0.6	188.6	17.3	912.3	3.28	0	982.83
6/26/05 13:00	47.5	1.9	2.6	0.8	4.7	0.6	188.8	16.3	814.6	2.93	0	982.15
6/26/05 14:00	46	1.7	2.5	0.8	5.3	0.7	171.8	16.1	794.1	2.86	0	981.61
6/26/05 15:00	46.5	2.1	2.9	0.9	5.1	0.6	174.8	14.1	692.8	2.49	0	981.2
6/26/05 16:00	47.7	1.8	2.6	0.8	4.2	0.4	193.3	11.7	502.2	1.81	0	980.87
6/26/05 17:00	52.2	1.2	2	0.8	3.9	0.3	192.4	8.8	319.5	1.15	0	980.75
6/26/05 18:00	59.5	0.2	1.3	1	2.3	0.2	184.9	6.9	139.1	0.5	0	980.76
6/26/05 19:00	67.7	0.1	1.5	1.4	2.8	0.2	163.1	6.4	20	0.07	0	980.63
6/26/05 20:00	66.7	0.6	1.9	1.3	3	0.3	139.8	7.6	0	0	0	980.81
6/26/05 21:00	63.7	1.1	2.4	1.3	4.3	0.4	142.2	8.9	0	0	0	981.55
6/26/05 22:00	66.2	1.5	2.6	1.1	4.5	0.5	146	11.1	0	0	0	981.87
6/26/05 23:00	70.1	0.8	1.9	1.1	3.4	0.3	154.4	9.8	0	0	0	981.81
6/27/05 0:00	73.4	0.3	1.6	1.3	2.7	0.2	164	7.6	0	0	0	981.8
6/27/05 1:00	77.5	0.6	1.8	1.3	3.3	0.3	172.1	8.5	0	0	0	981.79
6/27/05 2:00	75.9	1.4	2.6	1.1	4.3	0.5	187.3	10.3	0	0	0	981.47
6/27/05 3:00	78.2	1.4	2.4	0.9	4.3	0.5	142.5	11.9	0	0	0	981.66
6/27/05 4:00	79.2	0.9	2	1.1	4.4	0.4	126.7	11.8	0.1	0	0	982.05
6/27/05 5:00	82	0.4	1.5	1.1	3	0.3	150	11.2	25.6	0.09	0	982.45
6/27/05 6:00	75.6	1.3	2.1	0.9	4.2	0.5	172.2	13.9	149.2	0.54	0	982.79
6/27/05 7:00	70	2.5	3.6	1.1	5.9	0.7	160.9	11	328.9	1.18	0	983.1
6/27/05 8:00	64.3	2.7	3.9	1.3	6.7	0.8	176.6	10.6	517	1.86	0	983.41
6/27/05 9:00	59.2	2.7	3.9	1.2	6.9	0.8	186.1	11.4	681.3	2.45	0	983.5
6/27/05 10:00	56.8	2.9	4.1	1.2	7.6	0.8	197	11.8	812	2.92	0	983.52
6/27/05 11:00	53.6	3.2	4.6	1.3	7.7	1	188.3	11.9	891.2	3.21	0	983.32
6/27/05 12:00	51.8	3.1	4.3	1.2	7.1	0.9	193.4	12	912	3.28	0	982.96
6/27/05 13:00	50.3	3	4.2	1.2	8.4	0.9	193.8	11.8	879.3	3.17	0	982.49
6/27/05 14:00	48.8	2.9	4.1	1.3	7.8	0.9	180.5	13.9	802.9	2.89	0	981.81
6/27/05 15:00	48.5	2.9	4.1	1.2	7	0.9	169	13.4	663.8	2.39	0	981.17
6/27/05 16:00	49.6	2.5	3.6	1.1	6.3	0.8	167.2	12.9	495.1	1.78	0	980.77
6/27/05 17:00	52.6	1.8	2.8	1	5.5	0.5	167	11.6	317.2	1.14	0	980.32
6/27/05 18:00	56.3	1.4	2.3	0.9	4.1	0.4	158.3	10	140.4	0.51	0	980.29
6/27/05 19:00	60.3	1.1	2.3	1.2	3.5	0.3	150.9	8.7	21.2	0.08	0	980.66
6/27/05 20:00	59.3	0.8	1.8	1	3.4	0.3	166	10.3	0	0	0	981.1
6/27/05 21:00	58.3	1	1.9	0.9	4	0.4	159.8	12	0	0	0	981.55
6/27/05 22:00	62.4	1.4	2.3	1	4.6	0.5	156	11.6	0	0	0	981.77
6/27/05 23:00	63.9	1.8	2.8	1.1	4.7	0.6	175.8	11.6	0	0	0	981.41
6/28/05 0:00	67.5	1.7	2.8	1.1	4.5	0.5	148.6	10.7	0	0	0	981.02
6/28/05 1:00	73.6	1.2	2.2	1	4	0.4	166.8	10.9	0	0	0	980.97
6/28/05 2:00	78.7	1.2	2.2	0.9	4	0.4	157.3	11.5	0	0	0	980.87
6/28/05 3:00	81	1.6	2.6	1	4.4	0.5	154.5	11.8	0	0	0	980.88
6/28/05 4:00	82.2	1.6	2.5	0.9	5	0.6	165	12.9	0.1	0	0	980.91
6/28/05 5:00	80.3	1.4	2.4	1	4.7	0.5	177.4	13.2	26	0.09	0	981.4

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
6/28/05 18:00	0.06769	32.1	1	3.1	180	8	0.062	0.001	0.012	0.013	40.5	33.89	38	
6/28/05 19:00	0.06667	31.3	1.3	4.5	202.5	8	0.062	0	0.009	0.009	41.9	31.67	44	
6/28/05 20:00	0.0597	30.3	1.1	4	180	6.7	0.03	0.003	0.033	0.036	42.3	28.33	57	
6/28/05 21:00	0.05541	30	0.4	4.9	180	7.6	0.017	0.002	0.034	0.036	46.7	26.67	67	
6/28/05 22:00	0.0708	30.2	0.7	4.5	180	6.9	0.026	0.002	0.024	0.026	44.4	26.67	67	
6/28/05 23:00	0.06765	29.6	0.9	7.2	180	10.3	0.006	0.004	0.036	0.04	39.9	25.56	72	
6/29/05 0:00	0.07369	29.6	0.7	5.8	180	9.4	0.003	0.003	0.03	0.033	39.4	23.89	81	
6/29/05 1:00	0.07618	29.2	1.3	3.1	45	8.5	0.002	0.002	0.026	0.027	41	22.78	87	
6/29/05 2:00	0.07436	28.8	1	4	180	9.8	0.011	0.001	0.019	0.02	41.3	22.78	86	
6/29/05 3:00	0.07341	28.5	1.4	6.3	180	11.2	0.027	0	0.013	0.014	37.2	23.33	79	
6/29/05 4:00	0.06688	27.7	1.6	8.9	180	12.1	0.02	0.001	0.018	0.019	39.9	22.78	81	
6/29/05 5:00	0.06242	27.4	1.7	7.2	180	11.6	0.013	0.005	0.028	0.033	39.1	22.78	81	
6/29/05 6:00	0.0588	26.4	1.8	5.4	180	10.7	0.024	0.003	0.023	0.025	38.3	25.56	70	
6/29/05 7:00	0.05944	26.7	1.7	4.5	180	9.8	0.032	0.005	0.028	0.034	45.1	28.89	57	
6/29/05 8:00	0.05446	27.4	1.8	4.9	180	10.3	0.054	0.003	0.02	0.022	45.1	31.11	51	
6/29/05 9:00	0.061	29.2	4.1	2.2	180	7.6	0.064	0.001	0.012	0.013	41.5	32.78	46	
6/29/05 10:00	0.06566	31.2	2.6	3.6	180	8.5	0.07	0.001	0.007	0.007	39.2	33.33	43	
6/29/05 11:00	0.06865	32.7	3.7	3.6	180	9.8	0.068	0	0.005	0.005	36.6	34.44	39	
6/29/05 12:00	0.06533	34.7	3.5	3.1	0	8.5	0.066	0	0.005	0.005	40.6	35.00	39	
6/29/05 13:00	0.06524	34.6	3.8	4.9	180	13.9	0.065	0	0.004	0.004	35.5	35.56	35	
6/29/05 14:00	0.06673	34.6	3	4.5	180	13	0.066	0	0.005	0.005	41.9	36.11	36	
6/29/05 15:00	0.06152	33.6	2.7	5.4	202.5	12.5	0.065	0	0.005	0.006	42	36.11	35	
6/29/05 16:00	0.06534	33.4	1.7	4.5	180	13	0.066	0	0.005	0.005	41.3	36.11	34	
6/29/05 17:00	0.06765	33.2	1.7	3.6	180	10.3	0.065	0	0.005	0.005	41.7	35.56	34	
6/29/05 18:00	0.06654	32.9	0.8	2.7	0	8.5	0.06	0	0.008	0.008	36.5	34.44	38	
6/29/05 19:00	0.06501	32.2	1.3	2.2	0	7.6	0.051	0	0.012	0.012	38.5	32.22	41	
6/29/05 20:00	0.06239	31.4	0.5	3.6	180	8	0.024	0.004	0.033	0.037	37.7	30.00	52	
6/29/05 21:00	0.05539	31	0.4	5.4	180	8.9	0.008	0.009	0.038	0.047	39.7	28.33	61	
6/29/05 22:00	0.05477	30.9	0.5	7.2	180	9.4	0.007	0.002	0.031	0.033	44.3	26.67	71	
6/29/05 23:00	0.0633	30.9	0.8	7.2	180	10.3	0.003	0.005	0.03	0.035	46.5	26.11	73	
6/30/05 0:00	0.07068	30.9	0.8	8	180	11.2	0.026	0.001	0.019	0.02	47.7	26.11	70	
6/30/05 1:00	0.07262	29.9	2.3	10.3	180	13.9	0.044	0	0.009	0.009	47.4	27.78	60	
6/30/05 2:00	0.06113	28.3	1.5	11.6	202.5	14.8	0.044	0	0.008	0.008	41.5	27.22	62	
6/30/05 3:00	0.06165	27.7	0.9	10.7	202.5	13.9	0.046	0	0.008	0.008	46.8	26.67	65	
6/30/05 4:00	0.06335	27.5	0.8	10.7	180	13.9	0.032	0	0.017	0.017	59.7	25.56	70	
6/30/05 5:00	0.05885	26.8	1	8.5	180	13	0.022	0.002	0.028	0.03	65.3	25.00	70	
6/30/05 6:00	0.05285	26.1	0.8	5.4	180	9.8	0.015	0.014	0.036	0.051	63	26.67	67	
6/30/05 7:00	0.05591	27.3	2.5	2.2	180	5.8	0.034	0.006	0.031	0.037	55.5	29.44	56	
6/30/05 8:00	0.04768	29.6	3.8	2.2	0	5.4	0.049	0.004	0.023	0.026	46.5	31.67	50	
6/30/05 9:00	0.05434	30.6	1.8	1.8	180	5.4	0.061	0.002	0.017	0.019	37.4	32.78	47	
6/30/05 10:00	0.06126	32.2	3.8	2.7	180	6.3	0.064	0	0.005	0.005	34.5	34.44	43	
6/30/05 11:00	0.06084	34.6	4.9	2.2	22.5	6.7	0.055	0	0.004	0.004	35.56	35.00	41	
6/30/05 12:00	0.05731	35.7	5.6	3.1	180	8	0.059	0	0.004	0.004	35.56	35.00	37	
6/30/05 13:00	0.05796	34.5	3.1	4.5	180	10.3	0.057	0	0.004	0.004	36.11	35.00	35	
6/30/05 14:00	0.06009	34.4	5.3	5.4	202.5	12.5	0.061	0	0.003	0.002	36.67	34.44	34	
6/30/05 15:00	0.06295	33.8	3	5.4	180	12.1	0.063	0	0.003	0.002	36.11	35.00	35	
6/30/05 16:00	0.06331	33.3	1.8	4.5	180	11.2	0.06	0	0.003	0.002	36.67	33.33	33	
6/30/05 17:00	0.06166	33.4	1.3	3.1	22.5	8.5	0.062	0	0.002	0.002	36.11	33.33	33	
6/30/05 18:00	0.06507	32.9	1.1	3.6	180	8	0.06	0	0.005	0.005	35.00	35.00	34	
6/30/05 19:00	0.06464	32.4	0.7	4.5	180	9.4	0.052	0	0.01	0.009	32.78	39.9	39	
6/30/05 20:00	0.05545	31.8	0.5	6.7	180	10.7	0.033	0.001	0.02	0.02	31.11	47.7	47	
6/30/05 21:00	0.05352	31.7	0.7	6.3	180	9.4	0.01	0.004	0.034	0.038	28.33	58.89	58	
6/30/05 22:00	0.04941	31.4	0.5	5.8	180	8.9	0.002	0.012	0.034	0.047	26.67	68.89	68	
6/30/05 23:00	0.07294	31.3	0.5	7.6	180	11.2	0.02	0.011	0.025	0.036	27.78	63.33	63	
7/1/05 0:00	0.06458	31.1	0.6	8.5	180	12.5	0.049	0	0.014	0.014	28.33	59.44	44	
7/1/05 1:00	0.07078	28.7	7.1	5.8	180	15.6	0.049	0	0.003	0.002	23.33	76.67	76	
7/1/05 2:00	0.0515	21.2	4.8	8.5	22.5	19.7	0.048	0	0.002	0.002	22.22	78.89	78	
7/1/05 3:00	0.04935	19.8	0.2	5.4	247.5	16.5	0.049	0	0.002	0.002	21.67	77.78	77	
7/1/05 4:00	0.05097	19.8	0.1	4.9	247.5	15.2	0.049	0	0.004	0.003	21.67	76.67	76	
7/1/05 5:00	0.04913	19.9	0.2	4.5	225	10.7	0.041	0	0.01	0.009	22.22	75.00	75	
7/1/05 6:00	0.05138	19.9	0.2	3.1	247.5	8.9	0.042	0	0.01	0.009	21.67	77.78	77	
7/1/05 7:00	0.04811	20.6	1.5	3.6	225	12.1	0	0.006	0.005	0.005	20.00	90.00	90	
7/1/05 8:00	0.05556	17.9	2.5	5.8	292.5	15.6	0.023	0.001	0.02	0.021	19.44	94.44	94	
7/1/05 9:00	0.04938	18.1	0.8	3.6	202.5	10.3	0.029	0.001	0.015	0.016	20.00	93.33	93	
7/1/05 10:00	0.03332	18.3	3	5.4	202.5	12.5	0.032	0.005	0.018	0.023	22.22	82.22	82	
7/1/05 11:00	0.04021	25.3	14.1	0.4	270	2.2	0.051	0.002	0.009	0.011	26.11	61.11	61	
7/1/05 12:00	0.04065	33.7	6.6	0.9	157.5	3.6	0.06	0.001	0.007	0.008	27.78	49.44	49	
7/1/05 13:00	0.05726	35	4.1	0.9	270	3.6	0.066	0.001	0.006	0.007	28.33	51.11	51	
7/1/05 14:00	0.06817	34.7	4.6	1.3	247.5	4	0.069	0	0.006	0.006	29.44	52.22	52	
7/1/05 15:00	0.07076	31.6	6.1	1.3	0	5.8	0.06	0.001	0.007	0.009	30.56	41.11	41	
7/1/05 16:00	0.06482	30.5	3.3	1.8	45	6.3	0.057	0.002	0.008	0.01	30.56	41.11	41	
7/1/05 17:00	0.06237	29.4	2.2	2.2	22.5	7.6	0.044	0	0.012	0.012	30.56	44.44	44	
7/1/05 18:00	0.05769	28.2	2.1	2.7	22.5	7.2	0.04	0.003	0.016	0.019	29.44	48.89	48	
7/1/05 19:00	0.04532	27.1	1.6	3.1	22.5	7.6	0.025	0.003	0.026	0.029	14.9	27.22	57	
7/1/05 20:00	0.04233	25.4	1.5	1.3	0	7.6	0.008	0.013	0.034	0.047	17.7	24.44	71	
7/1/05 21:00	0.05245	24.5	0.7	0.9	247.5	4.9	0.004	0.009	0.032	0.041	18.8	22.78	78	
7/1/05 22:00	0.02915	23.6	1.1	0.9	247.5	5.4	0.004	0.016	0.026	0.041	19.4	21.67	87	
7/1/05 23:00	0.01801	23.2	0.5	0.9	292.5	3.6	0.001	0.01	0.024	0.034	19.6	20.56	90	
7/2/05 0:00	0.03355	22.6	1.2	0.4	292.5	2.2	0	0.017	0.017	0.034	21.1	20.00	92	
7/2/05 1:00	0.0304	22.1	0.8	0.4	292.5	2.2	0	0.011	0.015	0.026	19.3	19.44	93	
7/2/05 2:00	0.04593	22	1.1	0.9	292.5	4	0.003	0.001	0.011	0.012	20.7	19.44	92	
7/2/05 3:00	0.05009	22.3	0.9	1.8	247.5	4	0	0.004	0.01	0.014	16.4	18.89	93	
7/2/05 4:00	0.04693	22.1	1.4	2.7	247.5	4.9	0	0.004	0.011	0.015	19	18.89	94	
7/2/05 5:00	0.04216	22	0.5	3.1	112.5	5.8	0.004	0.002	0.009	0.011	19.3	18.89	92	
7/2/05 6:00	0.04784	22.4	1.2	3.6	112.5	6.7	0.008	0.008	0.013	0.021	20.1	20.00	89	
7/2/05 7:00	0.03653	23.8	2	2.7	112.5	6.3	0.016	0.003	0.007	0.01	20	22.78		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
6/28/05 18:00	196	1.34112	33.3	22.5	17.2	38	4.12	200	985.78	30.9	31.2	0.3
6/28/05 19:00	245	0.44704	32.2	22.6	17.8	42	4.12	170	986.12	28.9	30	1.1
6/28/05 20:00	211	0	30	22.2	18.3	50	2.57	190	986.45	27.5	29.1	1.6
6/28/05 21:00	207	0	28.3	22.3	19.4	59	2.57	150	986.45	27	28.2	1.2
6/28/05 22:00	141	0	26.7	22.2	20	67	2.57	140	986.79	27	27.8	0.9
6/28/05 23:00	127	0	26.1	22	20	69	2.06	170	987.13	25.8	27.1	1.3
6/29/05 0:00	199	0	25	22.1	20.6	77	3.09	150	987.13	25.7	26.8	1.1
6/29/05 1:00	206	0	27.2	22	19.4	62	4.12	160	986.79	23.9	25.3	1.5
6/29/05 2:00	166	0	26.7	21.9	19.4	64	4.12	170	987.13	24.4	25.4	1
6/29/05 3:00	209	0	26.1	21.4	18.9	65	4.12	180	987.13	23.8	24.9	1.1
6/29/05 4:00	238	0.44704	26.1	21.4	18.9	65	4.63	180	987.13	22.8	24.2	1.4
6/29/05 5:00	199	0.44704	26.1	21.4	18.9	65	4.63	180	987.47	23	24	1
6/29/05 6:00	208	0.44704	27.2	21.7	18.9	61	4.12	180	987.47	24.3	24.5	0.2
6/29/05 7:00	202	0.89408	29.4	22.4	18.9	53	4.63	190	987.47	26.3	25.9	-0.4
6/29/05 8:00	218	0.89408	31.1	22.5	18.3	46	4.12	220	987.81	28.6	28	-0.6
6/29/05 9:00	213	1.34112	32.2	23.2	18.9	45	6.17	210	987.47	30.1	29.4	-0.7
6/29/05 10:00	209	1.78816	33.9	23.6	18.9	41	5.66	200	987.47	31.2	30.5	-0.7
6/29/05 11:00	213	1.78816	34.4	23.8	18.9	40	6.17	230	986.79	32.2	31.4	-0.8
6/29/05 12:00	211	1.78816	35.6	23.8	18.3	36	7.20	190	986.12	33.1	32.2	-0.9
6/29/05 13:00	204	2.2352	35	23.3	17.8	36	5.66	210	985.78	33.8	32.9	-0.9
6/29/05 14:00	205	2.2352	36.1	23.3	17.2	33	8.75	180	985.10	34.1	33.3	-0.8
6/29/05 15:00	204	2.2352	36.1	23.6	17.8	34	6.69	190	985.10	34	33.4	-0.7
6/29/05 16:00	218	1.78816	35.6	23.5	17.8	35	7.20	190	984.76	33.6	33.2	-0.4
6/29/05 17:00	221	1.34112	35	23.3	17.8	36	5.66	200	984.42	33	32.8	-0.2
6/29/05 18:00	221	0.89408	33.9	23.6	18.9	41	3.09	190	984.42	31.5	31.8	0.3
6/29/05 19:00	213	0.44704	31.7	23.3	19.4	48	2.57	200	984.42	28.7	30.4	1.7
6/29/05 20:00	128	0	31.7	23.3	19.4	48	3.09	170	985.10	27.8	29.8	2
6/29/05 21:00	77	0.44704	28.9	22.9	20	59	2.06	140	986.12	28	29.7	1.8
6/29/05 22:00	120	0	30	23.2	20	55	3.60	170	986.12	28.2	29.4	1.3
6/29/05 23:00	66	0	28.9	23.2	20.6	61	3.09	170	985.78	27	28.3	1.3
6/30/05 0:00	217	0.44704	28.9	22.9	20	59	4.12	170	985.78	26.4	27.4	1
6/30/05 1:00	205	1.34112	28.3	22.3	19.4	59	5.66	180	985.10	25.7	26.5	0.9
6/30/05 2:00	205	0.89408	28.3	22	18.9	57	4.63	170	985.10	25.5	26.2	0.7
6/30/05 3:00	210	0.89408	27.2	21.7	18.9	61	5.14	180	985.10	24.9	25.8	0.9
6/30/05 4:00	216	0.44704	27.2	21.7	18.9	61	5.14	180	985.78	24	25.3	1.4
6/30/05 5:00	171	0.44704	26.7	21.9	19.4	64	1.54	170	986.79	24.2	25.5	1.3
6/30/05 6:00	135	0.44704	27.2	22.4	20	65	2.06	110	987.13	26.2	26.2	0.1
6/30/05 7:00	187	0.89408	29.4	23	20	57	2.57	170	987.81	27.8	27.3	-0.5
6/30/05 8:00	206	0.89408	31.7	23	19.4	48	4.12	220	987.81	29.2	28.4	-0.7
6/30/05 9:00	208	1.34112	32.6	23.6	19.4	45	5.66	210	987.81	30.9	30	-0.9
6/30/05 10:00	219	1.34112	33.3	23.8	19.4	44	5.66	240	987.81	32.4	31.3	-1
6/30/05 11:00	221	1.78816	35	24.2	19.4	40	5.14	210	986.79	33.1	32.1	-1
6/30/05 12:00	207	1.78816	35.6	24.1	18.9	37	6.69	190	985.78	34.1	33.2	-1
6/30/05 13:00	195	1.78816	35	23.9	18.9	39	7.72	190	985.10	34.5	33.6	-0.9
6/30/05 14:00	210	1.78816	35.6	23.8	18.3	36	6.69	190	984.76	34.8	34	-0.9
6/30/05 15:00	211	1.78816	36.1	23.9	18.3	35	6.69	220	984.08	34.7	33.9	-0.8
6/30/05 16:00	213	1.78816	35.6	23.5	17.8	35	6.69	250	984.08	34.4	33.8	-0.6
6/30/05 17:00	221	1.34112	35	22.7	16.7	34	5.14	240	983.75	33.8	33.6	-0.2
6/30/05 18:00	207	0.89408	34.4	22.8	17.2	36	5.14	190	982.73	32.4	32.5	0.1
6/30/05 19:00	205	0.89408	33.3	22.9	17.8	40	5.66	180	982.73	29.9	31.1	1.3
6/30/05 20:00	161	0.44704	30.6	22.7	18.9	50	2.57	110	983.75	28.9	30.5	1.6
6/30/05 21:00	155	0.44704	30	22.8	19.4	53	3.09	150	984.76	28.3	30.1	1.8
6/30/05 22:00	134	0	30	22.8	19.4	53	3.60	150	984.42	28.2	29.2	1.1
6/30/05 23:00	204	0.44704	30.6	23	19.4	51	3.60	170	984.42	27.7	28.3	0.6
7/1/05 0:00	73	3.12928	25.6	20.8	18.3	64	7.20	60	985.78	23.8	23.8	0
7/1/05 1:00	59	4.4704	21.7	19.5	18.3	81	5.66	80	986.79	20.8	21	0.2
7/1/05 2:00	79	2.68224	21.7	19.5	18.3	81	4.63	80	987.47	20.3	20.4	0.1
7/1/05 3:00	103	3.12928	21.7	19.2	17.8	79	7.20	100	987.81	20.5	20.7	0.1
7/1/05 4:00	102	2.68224	21.7	18.9	17.2	76	6.17	100	988.83	19.9	20	0.2
7/1/05 5:00	97	2.2352	21.7	18.9	17.2	76	3.60	100	989.16	19.9	20.1	0.2
7/1/05 6:00	106	1.78816	21.1	19	17.8	82	1.54	60	988.49	18.6	18.8	0.2
7/1/05 7:00	247	1.78816	20	18.9	18.3	90	0.00	0	990.18	18.9	19.3	0.4
7/1/05 8:00	189	1.34112	20	19.3	18.9	93	5.14	180	989.50	19.2	19.3	0
7/1/05 9:00	210	1.34112	20.6	19.5	18.9	90	3.09	0	990.18	19.8	19.7	-0.2
7/1/05 10:00	223	0.89408	23.9	20.7	18.9	74	0.00	0	989.50	22.6	21.6	-1
7/1/05 11:00	176	0.89408	27.2	20.7	17.2	54	2.06	0	988.49	25.4	24.3	-1.1
7/1/05 12:00	96	1.34112	28.9	22.2	18.9	55	3.60	10	987.47	26.7	25.6	-1.1
7/1/05 13:00	98	2.2352	28.9	22.5	19.4	57	3.60	350	987.13	27.8	26.5	-1.2
7/1/05 14:00	75	2.2352	30	22.5	18.9	51	3.60	350	986.79	28.7	27.7	-1.1
7/1/05 15:00	55	2.68224	30.6	21.2	16.1	42	1.54	0	986.79	29.1	28.3	-0.8
7/1/05 16:00	66	1.78816	31.1	20.2	13.9	35	4.12	70	986.12	29	28.2	-0.8
7/1/05 17:00	50	2.2352	30	20.7	15.6	42	4.12	60	985.78	28.5	28.1	-0.4
7/1/05 18:00	57	1.78816	28.3	21.7	18.3	55	3.09	60	986.12	27.3	27.3	0
7/1/05 19:00	72	0.89408	26.7	21.2	18.3	60	3.09	50	986.45	24.5	25.5	1
7/1/05 20:00	64	0.44704	25.6	21.2	18.9	67	2.06	90	986.79	22.8	24.4	1.6
7/1/05 21:00	95	0	24.4	20.8	18.9	72	1.54	80	987.13	22.4	23.7	1.2
7/1/05 22:00	205	0	23.9	20.7	18.9	74	2.06	90	987.47	21.9	23.3	1.5
7/1/05 23:00	221	0	22.2	20.1	18.9	82	2.06	120	986.79	20.8	22.5	1.8
7/2/05 0:00	205	0	22.2	20.1	18.9	82	2.06	120	986.45	20.7	22.2	1.5
7/2/05 1:00	164	0.44704	21.1	19.3	18.3	84	1.54	340	986.12	20.1	22.4	2.4
7/2/05 2:00	198	0	20	18.9	18.3	90	0.00	0	986.12	19.9	22.3	2.5
7/2/05 3:00	182	0.44704	20	18.9	18.3	90	1.54	290	986.79	19.6	21.5	1.9
7/2/05 4:00	195	0.44704	20	19.3	18.9	93	2.57	300	987.47	18.8	20.9	2.1
7/2/05 5:00	103	0.44704	20.6	19.1	18.3	87	0.00	0	987.47	18.8	20.9	2.1
7/2/05 6:00	223	0.89408	20.6	19.8	19.4	93	2.57	360	988.15	20.9	21.4	0.5
7/2/05 7:00	125	0.89408	23.3	20.8	19.4	79	0.00	0	988.15	23.2	22.9	-0.4
7/2/05 8:00	131	1.34112	26.7	20.9	17.8	58	3.60	130	987.81	24.8	24	-0.8
7/2/05 9:00	165	1.78816	28.3	21.1	17.2	51	4.12	150	987.13	26.7	25.5	-1.1
7/2/05 10:00	173	1.78816	28.9	21	16.7	48	4.63	120	986.12	27.8	26.7	-1.1
7/2/05 11:00	141	1.78816	29.4	21.4	17.2	48	2.57	140	985.78	28.3	27.4	-1
7/2/05 12:00	97	2.2352	31.1	22.2	17.8	45	4.12	100	985.44	29.3	28.2	-1.1
7/2/05 13:00	97	2.2352	31.7	22.4	17.8	43	4.63	100	985.10	29.1	28.4	-0.6
7/2/05 14:00	136	1.78816	31.7	22.7	18.3	45	2.57	0	985.10	30.3	29.3	-1
7/2/05 15:00	183	1.78816	32.2	22.6	17.8	42	3.60	120	984.42	30.6	29.8	-0.8
7/2/05 16:00	172	1.78816	31.7	22.1								

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Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
6/28/05 18:00	56.1	0.9	1.9	1	3.9	0.3	164.4	8.8	149	0.54	0	979.29
6/28/05 19:00	58.6	1.1	2.3	1.2	4	0.4	151.8	7.9	20.3	0.07	0	979.33
6/28/05 20:00	61.1	1.1	2.5	1.4	3.7	0.3	156.8	7.6	0	0	0	979.51
6/28/05 21:00	63.7	1.5	2.7	1.2	4.5	0.4	154.8	8.7	0	0	0	979.63
6/28/05 22:00	64	1.4	2.5	1.1	4.2	0.5	174.4	11	0	0	0	979.94
6/28/05 23:00	68.3	0.6	1.8	1.2	3.1	0.4	169.7	10.8	0	0	0	980.34
6/29/05 0:00	69.2	1.1	2.3	1.2	3.6	0.4	148.5	9.1	0	0	0	980.37
6/29/05 1:00	76.5	0.4	1.4	1	3.2	0.3	174.4	11	0	0	0	980.14
6/29/05 2:00	72.1	1.1	2.2	1.1	4.1	0.4	154.9	11.7	0	0	0	980.15
6/29/05 3:00	72.4	0.9	2.1	1.2	4	0.4	154.1	10.7	0	0	0	980.25
6/29/05 4:00	76	0.7	2	1.3	3.5	0.3	171.5	8.7	0.1	0	0	980.32
6/29/05 5:00	75.7	1	2.1	1.1	3.8	0.4	172	10.2	26.8	0.1	0	980.49
6/29/05 6:00	72.2	1.4	2.3	1	4.2	0.4	175.5	10.9	157.3	0.57	0	980.56
6/29/05 7:00	67	1.7	2.5	0.8	4.8	0.5	175.3	10.8	343.8	1.24	0	980.68
6/29/05 8:00	61	2.2	3.3	1.1	5.9	0.7	172	11.9	536.6	1.93	0	980.84
6/29/05 9:00	57	3.1	4.5	1.4	7.3	0.9	187.9	11.3	700.7	2.52	0	980.68
6/29/05 10:00	52.8	3.5	5	1.5	8.2	1	174.6	12.2	828.1	2.98	0	980.76
6/29/05 11:00	49.1	3.8	5.4	1.6	9.8	1.1	180.5	12.2	903.6	3.25	0	980.45
6/29/05 12:00	45.1	4.1	5.6	1.6	9.3	1.1	178.4	13.3	922.8	3.32	0	979.93
6/29/05 13:00	41.7	4.3	6	1.7	11.6	1.2	170.3	12.2	898.3	3.23	0	979.26
6/29/05 14:00	39.3	4.3	6	1.8	10.4	1.2	170.3	11.6	816	2.94	0	978.72
6/29/05 15:00	40.9	4	5.6	1.6	8.9	1.1	177.1	11.6	651.6	2.45	0	978.57
6/29/05 16:00	41.7	3.9	5.6	1.7	9.1	1	179.7	10.4	504.4	1.82	0	978.36
6/29/05 17:00	45	2.6	3.9	1.3	7.3	0.8	175.3	10.6	321.3	1.16	0	978.07
6/29/05 18:00	49.7	1.6	2.7	1.1	5	0.5	171.5	9.6	145.6	0.52	0	977.9
6/29/05 19:00	60.3	0.4	1.8	1.4	3.4	0.2	158.1	6.7	21.5	0.08	0	977.89
6/29/05 20:00	62.9	0.5	2	1.5	3.3	0.3	150.4	7.4	0	0	0	978.33
6/29/05 21:00	59	0.7	2.1	1.4	3.8	0.3	147.6	8.7	0	0	0	979.21
6/29/05 22:00	58.2	1.1	2.2	1.1	3.5	0.4	175.7	10.2	0	0	0	979.39
6/29/05 23:00	64.6	1.3	2.4	1.2	4.5	0.4	152.1	8.5	0	0	0	979.11
6/30/05 0:00	67.1	1.7	2.9	1.2	4.5	0.5	156.6	9	0	0	0	978.79
6/30/05 1:00	69.2	1.8	3	1.2	5.4	0.5	157.7	9.1	0	0	0	978.52
6/30/05 2:00	68.3	2.2	3.5	1.2	5.7	0.5	158.9	9	0	0	0	978.45
6/30/05 3:00	69.9	1.5	2.7	1.2	4.8	0.5	165	9.1	0	0	0	978.5
6/30/05 4:00	73.9	1.2	2.4	1.2	3.9	0.3	181.6	7.5	0.1	0	0	978.95
6/30/05 5:00	72.6	1.1	2.4	1.3	3.9	0.3	178.2	6.8	26.7	0.1	0	979.76
6/30/05 6:00	67.5	0.9	1.7	0.8	3.5	0.3	154.9	11.9	159	0.57	0	980.22
6/30/05 7:00	62.8	1.2	1.7	0.6	3.4	0.4	170.6	13.1	342.1	1.23	0	980.82
6/30/05 8:00	59.4	2.1	2.9	0.8	5.3	0.6	183.1	11.3	530.3	1.91	0	981.07
6/30/05 9:00	57.3	2.1	2.8	0.7	5.7	0.6	190.1	14.5	693.3	2.5	0	981.12
6/30/05 10:00	51.3	3.1	4.3	1.2	7.8	0.8	176.3	12.8	824.3	2.97	0	981.05
6/30/05 11:00	47.7	3.4	4.7	1.3	8.2	1	178.9	12.7	902.5	3.25	0	980.38
6/30/05 12:00	41.4	3.7	5.1	1.4	8.4	1.1	171.7	14	932	3.36	0	979.4
6/30/05 13:00	39.9	4.1	5.6	1.6	10.1	1.1	176.1	12.1	878.5	3.16	0	978.76
6/30/05 14:00	39.6	3.6	4.9	1.4	8.6	1	167.9	13.9	804.2	2.9	0	978.39
6/30/05 15:00	40	3.8	5.3	1.4	11	1.1	167	13.4	692.1	2.49	0	977.65
6/30/05 16:00	40.3	3.6	4.9	1.4	8.9	1.1	165.8	12.3	518.9	1.87	0	977.37
6/30/05 17:00	41	2.9	4.1	1.3	7.4	0.8	168.8	11.6	335.1	1.21	0	977.32
6/30/05 18:00	44.6	2.3	3.4	1.1	6	0.7	154.6	10.9	158.7	0.57	0	976.43
6/30/05 19:00	51.9	0.9	2.3	1.4	4.9	0.4	159.6	8.8	21.8	0.08	0	976.49
6/30/05 20:00	54.7	0.6	1.7	1.1	3.6	0.3	164.9	9.4	0	0	0	976.96
6/30/05 21:00	55.6	0.5	1.7	1.3	3.1	0.2	155.5	6.8	0	0	0	977.83
6/30/05 22:00	56	1.5	2.7	1.2	4.7	0.4	160.7	9.3	0	0	0	977.76
6/30/05 23:00	59.3	2.3	3.6	1.3	11.3	0.7	106.1	13.2	0	0	0	978.01
7/1/05 0:00	69.8	4.6	6.2	1.6	12.1	1.4	49.1	14.6	0	0	0	980
7/1/05 1:00	83.3	3.8	5.2	1.4	10.3	1.3	55.8	13.9	0	0	0	980.42
7/1/05 2:00	85.3	3.5	4.9	1.4	9.6	1.2	70.7	14.3	0	0	0	980.31
7/1/05 3:00	83	2.6	3.9	1.3	8.9	1	83.1	15.1	0	0	0	980.98
7/1/05 4:00	89.9	2	3.2	1.2	6.5	0.8	86.1	14.6	0	0	0.04	981.69
7/1/05 5:00	89.8	2.1	3.1	1	8.1	0.8	63.6	17.4	2.2	0.01	0	982.34
7/1/05 6:00	91.5	2.2	3.3	1.1	8.6	1	141.8	19.8	1.7	0.01	0.49	982.06
7/1/05 7:00	94.8	2	3	1	5.8	0.6	215.4	12.3	4.5	0.02	0.06	982.95
7/1/05 8:00	96	1.9	2.7	0.9	7.8	0.8	101.1	16.8	47	0.17	0.02	981.79
7/1/05 9:00	94.1	2.1	3	0.9	6.2	0.6	192.7	12.1	214.7	0.77	0	982.69
7/1/05 10:00	85.7	1.3	1.8	0.5	3.8	0.4	172.3	20	712.5	2.57	0	982.77
7/1/05 11:00	73.7	0.6	0.8	0.2	2.5	0.4	129	29.2	875.1	3.15	0	982.06
7/1/05 12:00	68.8	1	1.4	0.5	3.3	0.6	61.3	21	832.2	3	0	981.32
7/1/05 13:00	64.5	1.5	2.1	0.6	5.2	0.7	132.7	22.2	942.3	3.39	0	980.71
7/1/05 14:00	57.8	1.5	2.1	0.7	4.1	0.6	85.2	23.2	859	3.09	0	980.18
7/1/05 15:00	52	1.1	1.8	0.6	3.9	0.6	64.3	19.9	711.1	2.56	0	980.21
7/1/05 16:00	52.4	1.3	2	0.7	3.9	0.5	28.6	15.4	558.3	2.01	0	980.01
7/1/05 17:00	53.8	1.1	1.8	0.7	3.5	0.4	51.1	15.4	371.4	1.34	0	979.5
7/1/05 18:00	58.8	0.6	1.4	0.8	3	0.4	62.2	12.1	176.4	0.64	0	979.48
7/1/05 19:00	70.1	0.2	1.2	0.9	2.5	0.2	59.3	9.9	15.7	0.06	0	979.73
7/1/05 20:00	78.7	0	1	1	2	0.2	56.5	10.3	0	0	0	979.89
7/1/05 21:00	80.7	0.3	1.4	1.1	3.1	0.3	65.9	10.7	0	0	0	980.31
7/1/05 22:00	81.9	0.2	1.2	1	2.3	0.2	70.3	10.4	0	0	0	980.54
7/1/05 23:00	85.8	0	0.7	0.7	1.5	0.2	86	11	0	0	0	980.16
7/2/05 0:00	87.7	0.2	1.1	1	2.5	0.3	76.5	10.9	0	0	0	979.71
7/2/05 1:00	87.6	0.2	0.9	0.7	2.3	0.2	78.8	12.3	0	0	0	979.53
7/2/05 2:00	90.2	0.2	1	0.8	1.7	0.1	84.3	6.5	0	0	0	979.47
7/2/05 3:00	90.2	0.3	1	0.7	2.1	0.2	71.2	7.2	0	0	0	979.59
7/2/05 4:00	92.7	0	0.5	0.5	1.7	0.2	202.2	4.9	0.2	0	0	980.37
7/2/05 5:00	93.8	0.1	1.1	1	3.1	0.2	126.7	8.9	20.6	0.07	0	980.56
7/2/05 6:00	87.9	0.6	1.3	0.7	2.9	0.2	264.7	12.5	132.8	0.48	0	981.26
7/2/05 7:00	80.7	0.8	1.4	0.7	3.3	0.3	123.3	11.6	308.6	1.11	0	981.04
7/2/05 8:00	70.8	1.6	2.4	0.8	4.6	0.5	110.9	15.4	511.4	1.84	0	980.88
7/2/05 9:00	62.6	2.1	2.9	0.8	6.1	0.7	143.8	15.8	724.8	2.61	0	980.67
7/2/05 10:00	54.8	2.5	3.5	1	6.5	0.8	139.1	15.5	818.9	2.95	0	979.94
7/2/05 11:00	52.6	1.8	2.5	0.8	4.4	0.7	135.9	18	752.5	2.71	0	979.52
7/2/05 12:00	50.3	1.9	2.7	0.8	5.7	0.8	112.8	16.8	903.1	3.25	0	979.07
7/2/05 13:00	51.8	1.4	2.2	0.8	4.8	0.6	104.1	16.4	597	2.15	0	978.77
7/2/05 14:00	48.1	1.5	2.3	0.8	4.9	0.7	115.8	18.9	879.8	3.17	0	978.75
7/2/05 15:00	45.3	1.9	2.9	0.9	4.9	0.7	126.4	17.4	716.3	2.58	0	978.31
7/2/05 16:00	47	2	2.9	0.9	6.4	0.7	137.5	16	539.5	1.94	0	977.71
7/2/05 17:00	47.8	1.6	2.4	0.8	4.6	0.6	144.1	13.9	355.3	1.28	0	977.37
7/2/05 18:00	51.5	1	1.9	0.9	3.8	0.4	141.3	11.7	169.6	0.61	0	977.41
7/2/05 19:00	58.9	0.7	1.9	1.2	3.4	0.3	138	9.3	23.9	0.09	0	977.43
7/2/05 20:00	64.1	1	2.2	1.1	3.4	0.4	141.7	9.2	0	0	0	977.95
7/2/05 21:00	68.3	1.2	2.3									

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
7/3/05 9:00	0.0433	26.4	7.1	2.7	180	8	0.049	0	0.005	0.004	28.8	28.89	60		
7/3/05 10:00	0.0499	28.6	2.6	4.9	202.5	8	0.05	0	0.003	0.003	21.5	30.00	57		
7/3/05 11:00	0.05228	28.9	3.3	5.8	202.5	9.8	0.055	0	0.004	0.004	23.1	31.67	53		
7/3/05 12:00	0.05613	31.1	4.1	5.8	202.5	11.2	0.058	0	0.005	0.005	19.7	32.78	49		
7/3/05 13:00	0.05749	31.9	2.2	7.2	202.5	12.1	0.06	0	0.005	0.006	19.2	33.95	45		
7/3/05 14:00	0.06125	33.2	2.5	6.3	202.5	11.2	0.06	0	0.005	0.005	20.7	34.44	45		
7/3/05 15:00	0.06076	32.7	1.6	5.4	202.5	12.1	0.057	0	0.003	0.003	21.5	35.00	44		
7/3/05 16:00	0.05581	33.2	2.3	4.5	202.5	12.5	0.055	0	0.002	0.002	21.5	35.56	41		
7/3/05 17:00	0.05652	32.7	1.2	4.5	202.5	11.2	0.054	0	0.002	0.002	21.7	35.00	41		
7/3/05 18:00	0.0573	32.2	1	4.9	180	14.3	0.048	0	0.003	0.003	20.4	33.33	44		
7/3/05 19:00	0.05269	31.4	0.5	6.3	202.5	13	0.042	0	0.005	0.005	20.6	32.78	47		
7/3/05 20:00	0.0497	30.9	0.6	5.8	202.5	11.6	0.039	0	0.006	0.005	19.6	32.22	50		
7/3/05 21:00	0.04854	30.4	0.6	5.8	202.5	11.6	0.035	0	0.01	0.009	26.6	31.67	52		
7/3/05 22:00	0.04801	30.1	0.5	4.5	202.5	11.6	0.034	0	0.01	0.01	35.4	28.89	65		
7/3/05 23:00	0.04424	28.2	3.6	2.7	202.5	11.2	0.049	0	0.002	0.002	18.2	25.00	63		
7/4/05 0:00	0.0489	23.2	4.2	4.9	225	15.2	0.051	0	0.003	0.002	0.6	23.33	66		
7/4/05 1:00	0.05178	21.6	4.3	7.2	270	25.9	0.047	0	0.002	0.001	0.4	19.44	90		
7/4/05 2:00	0.04604	18.1	1.9	3.6	225	19.7	0.045	0	0.002	0.001	11.4	19.44	93		
7/4/05 3:00	0.04107	18.1	1.2	3.1	225	8.9	0.043	0	0.001	0	9.6	19.44	93		
7/4/05 4:00	0.04328	17.9	0.3	4.5	225	11.6	0.039	0	0.001	0	12.7	20.00	93		
7/4/05 5:00	0.05048	18.2	1	2.7	225	7.2	0.033	0	0.009	0.008	15.2	19.44	94		
7/4/05 6:00	0.05897	19.1	2.9	4.9	180	11.6	0.045	0	0.003	0.002	13.8	19.44	91		
7/4/05 7:00	0.06032	20.5	4.2	13	180	24.1	0.049	0	0.002	0.001	17.9	21.11	76		
7/4/05 8:00	0.06073	21	5.3	18.8	202.5	30.4	0.046	0	0.002	0.001	17.5	22.78	71		
7/4/05 9:00	0.04983	23	3.1	3.1	292.5	12.5	0.042	0	0.001	0.001	14.5	23.89	69		
7/4/05 10:00	0.04269	27.6	7.9	2.2	180	5.8	0.047	0	0.001	0.001	12.9	26.11	63		
7/4/05 11:00	0.04475	32.6	4.2	1.3	135	5.4	0.051	0	0.001	0	13.2	27.22	58		
7/4/05 12:00	0.04924	33.7	6	2.2	292.5	7.6	0.052	0	0.001	0.001	12.2	28.33	55		
7/4/05 13:00	0.05241	34.7	7.8	2.2	292.5	7.2	0.051	0	0.001	0	12.2	28.89	54		
7/4/05 14:00	0.0514	34.7	4.7	1.8	292.5	6.7	0.05	0	0.001	0.001	13.1	29.44	53		
7/4/05 15:00	0.05225	33.1	4.5	1.3	225	5.4	0.051	0	0.002	0.001	12.5	30.00	52		
7/4/05 16:00	0.05409	31.7	3	1.3	225	5.4	0.051	0	0.003	0.003	12.4	30.00	51		
7/4/05 17:00	0.05577	31.1	2.6	0.9	202.5	4	0.051	0	0.003	0.002	13.9	30.00	51		
7/4/05 18:00	0.05554	29.7	2.4	0.9	225	3.1	0.046	0.001	0.006	0.007	15.9	29.44	54		
7/4/05 19:00	0.05457	27.8	2.3	0.9	67.5	3.6	0.029	0.001	0.013	0.014	14.9	27.22	65		
7/4/05 20:00	0.05284	25.9	2.4	0.4	0	3.6	0.007	0.012	0.027	0.039	26.8	24.44	80		
7/4/05 21:00	0.0518	24.7	0.8	0	270	1.8	0.001	0.016	0.024	0.04	109.4	23.33	84		
7/4/05 22:00	0.04696	24.9	1	0.4	270	4.5	0.003	0.015	0.022	0.037	78	23.33	83		
7/4/05 23:00	0.04703	23.3	0.4	0.4	315	2.2	0.001	0.007	0.024	0.031	178.9	22.22	87		
7/5/05 0:00	0.04829	23.7	0.8	0.9	22.5	4	0.001	0.018	0.017	0.035	250.9	21.67	86		
7/5/05 1:00	0.05015	23.3	1.7	1.3	22.5	4.5	0.014	0.001	0.011	0.011	97.2	21.67	89		
7/5/05 2:00	0.05305	22.9	0.7	2.7	22.5	6.3	0.014	0	0.006	0.006	37	21.11	90		
7/5/05 3:00	0.05078	22.2	1	2.2	22.5	5.8	0.012	0	0.004	0.005	27.7	20.56	91		
7/5/05 4:00	0.04243	21.2	1.2	0.9	247.5	4	0.013	0	0.004	0.003	21.7	20.00	94		
7/5/05 5:00	0.03404	21.4	0.7	1.8	112.5	4.5	0.013	0	0.006	0.005	20.4	20.56	93		
7/5/05 6:00	0.0417	21.7	0.9	1.8	112.5	4	0.008	0.005	0.009	0.013	26.2	21.67	90		
7/5/05 7:00	0.04335	23.7	4.1	2.2	112.5	4.9	0.014	0.004	0.015	0.019	27.2	23.33	83		
7/5/05 8:00	0.009812	22.9	2	3.1	112.5	7.2	0.011	0.009	0.022	0.031	23.5	24.44	81		
7/5/05 9:00	0.0246	23.6	1.9	2.2	270	7.6	0.023	0.006	0.013	0.019	27.2	25.00	77		
7/5/05 10:00	0.02829	26.2	5	1.3	225	4	0.041	0.002	0.008	0.01	16.2	26.67	69		
7/5/05 11:00	0.03643	30	6.8	0.9	0	4	0.049	0.001	0.007	0.008	18.2	27.22	66		
7/5/05 12:00	0.04775	31.8	6.2	1.3	22.5	4.9	0.058	0	0.005	0.006	21.8	28.33	61		
7/5/05 13:00	0.05904	33.3	6.5	1.8	22.5	4.9	0.062	0.001	0.005	0.006	19.4	29.44	57		
7/5/05 14:00	0.06641	33.1	9.3	1.8	45	5.8	0.054	0.001	0.007	0.009	17.8	28.89	56		
7/5/05 15:00	0.06039	28.2	2.2	2.2	45	5.4	0.052	0.001	0.01	0.01	19.2	26.67	57		
7/5/05 16:00	0.05562	29.3	2	1.8	22.5	5.4	0.051	0.002	0.009	0.011	14.9	29.44	55		
7/5/05 17:00	0.05495	28.8	2.2	2.2	22.5	5.3	0.051	0.001	0.008	0.009	12.5	30.00	51		
7/5/05 18:00	0.05395	28.8	2.3	2.7	22.5	8.5	0.047	0	0.005	0.005	12.2	28.89	55		
7/5/05 19:00	0.05205	26.9	2	2.7	0	8.5	0.034	0	0.013	0.013	15.5	27.22	66		
7/5/05 20:00	0.04545	25.3	1.5	0.9	270	3.1	0.011	0.003	0.023	0.026	19.1	24.44	79		
7/5/05 21:00	0.03048	24.1	1	0.4	270	2.2	0.008	0.006	0.02	0.026	19.7	23.33	85		
7/5/05 22:00	0.03799	23.9	0.5	0.4	0	3.6	0	0.011	0.018	0.029	20.1	21.67	91		
7/5/05 23:00	0.04049	23.3	1.4	0.9	0	4	0.003	0.004	0.015	0.019	25.8	21.67	92		
7/6/05 0:00	0.03824	22.7	1	0.4	270	1.8	0.007	0.001	0.011	0.011	25.5	21.11	89		
7/6/05 1:00	0.03804	22.2	0.7	1.3	112.5	3.6	0.009	0	0.006	0.006	21.3	20.00	90		
7/6/05 2:00	0.04737	22.3	0.9	2.7	112.5	4.9	0.012	0	0.005	0.006	17.9	20.00	89		
7/6/05 3:00	0.04043	22.1	0.9	1.3	202.5	4.5	0.011	0	0.004	0.004	13.9	19.44	88		
7/6/05 4:00	0.0435	21.2	1	0.4	157.5	1.8	0.004	0	0.005	0.005	17.1	18.33	93		
7/6/05 5:00	0.03819	21.2	0.8	0.9	112.5	2.2	0.001	0.013	0.007	0.02	16.5	18.33	94		
7/6/05 6:00	0.02509	21.5	0.7	0.4	135	1.3	0.004	0.013	0.008	0.021	17.3	20.00	89		
7/6/05 7:00	0.02696	23.6	5.4	0.9	0	2.7	0.011	0.01	0.011	0.021	18.7	22.78	78		
7/6/05 8:00	0.03476	28.4	7.1	0.4	247.5	11.8	0.026	0.005	0.009	0.014	18.7	25.56	70		
7/6/05 9:00	0.02468	31.3	8.3	0.4	292.5	2.2	0.039	0.003	0.012	0.016	19.8	27.22	63		
7/6/05 10:00	0.03476	30.8	6	2.2	225	7.2	0.046	0.003	0.012	0.015	22	28.89	54		
7/6/05 11:00	0.05171	31.9	6	2.7	225	8	0.054	0	0.004	0.004	18.1	29.44	49		
7/6/05 12:00	0.05879	32.2	6.2	2.7	112.5	7.2	0.06	0	0.005	0.005	22.9	29.44	50		
7/6/05 13:00	0.05654	33.2	8	2.2	202.5	7.2	0.05	0	0.004	0.004	18.5	30.00	48		
7/6/05 14:00	0.05153	31.6	5.1	2.7	112.5	8	0.05	0.001	0.006	0.007	20.2	30.00	48		
7/6/05 15:00	0.05244	31.9	4.2	1.8	112.5	6.3	0.054	0.001	0.006	0.007	23.4	30.56	46		
7/6/05 16:00	0.0547	31.7	3.9	1.3	225	4.9	0.061	0.001	0.007	0.008	22.5	31.11	44		
7/6/05 17:00	0.0626	30.7	4	1.8	112.5	5.8	0.063	0	0.006	0.006	26	30.56	47		
7/6/05 18:00	0.06821	29	2.6	1.8	112.5	5.8	0.061	0	0.008	0.008	26.3	30.00	50		
7/6/05 19:00	0.06746	28.1	1.5	0.9	247.5	4.5	0.043	0.002	0.024	0.026	27	27.78	59		
7/6/05 20:00	0.06851	26.7	1.2	0.9	247.5	3.1	0.011	0.008	0.043	0.051	33.4	25.00	72		
7/6/05 21:00	0.06515	25.8	0.6	2.2	112.5	4	0.006	0.015	0.037	0.052	33	23.33	81		
7/6/05 22:00	0.06177	25.4	0.8	0.4	202.5	2.7	0.003	0.005	0.027	0.032	31.5	22.22	87		
7/6/05 23:00	0.05182	25.1	0.5	0.9	112.5	3.1	0.001	0.012	0.022	0.035	34				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/3/05 9:00	196	1.78816	28.3	22.7	20	61	5.66	200	985.10	27.2	26.2	-1
7/3/05 10:00	188	2.2352	30	22.8	19.4	53	7.72	190	984.76	28.8	27.8	-1
7/3/05 11:00	191	2.2352	31.7	24	20.6	52	8.23	180	984.08	30.4	29.3	-1
7/3/05 12:00	189	2.68224	32.8	24	20	47	6.17	180	984.08	31.4	30.5	-0.9
7/3/05 13:00	186	2.2352	33.9	24.6	20.6	46	6.17	160	983.07	32.5	31.6	-0.9
7/3/05 14:00	178	2.68224	35	25.5	21.7	46	6.69	170	982.39	33.3	32.6	-0.8
7/3/05 15:00	183	2.68224	36.1	24.8	20	39	8.23	170	982.05	33.7	33.1	-0.6
7/3/05 16:00	183	2.68224	35.6	24.3	19.4	39	7.20	190	981.04	33.8	33.4	-0.4
7/3/05 17:00	182	3.12928	35	24.5	20	41	8.23	160	980.36	33.1	33	-0.1
7/3/05 18:00	173	2.68224	33.3	24.4	20.6	47	6.69	150	980.36	31.2	31.7	0.5
7/3/05 19:00	170	2.2352	31.1	24.1	21.1	55	3.60	120	981.38	30.2	31.1	0.9
7/3/05 20:00	173	1.78816	29.4	24.4	22.2	65	2.57	130	982.05	28.8	29.7	0.9
7/3/05 21:00	125	0.89408	30	23.8	21.1	59	3.60	70	983.75	27.9	28.7	0.8
7/3/05 22:00	38	3.57632	28.9	23.9	21.7	65	7.20	30	985.44	24.7	24.8	0.1
7/3/05 23:00	48	5.36448	25.6	19.9	16.7	58	6.17	20	986.45	22.7	22.8	0.1
7/4/05 0:00	138	4.4704	24.4	19.2	16.1	60	4.63	10	987.81	21.8	21.9	0.1
7/4/05 1:00	192	3.57632	19.4	19.4	19.4	100	4.12	60	987.13	18.3	18.4	0.1
7/4/05 2:00	217	3.12928	19.4	19.1	18.9	97	4.63	350	988.83	18.7	18.8	0.2
7/4/05 3:00	107	2.2352	20	19.6	19.4	96	4.12	360	989.50	19	19.2	0.2
7/4/05 4:00	188	0.89408	20	19.6	19.4	96	3.09	240	990.52	19	19.1	0.1
7/4/05 5:00	199	1.34112	20	19.6	19.4	96	8.75	210	987.47	18.8	19	0.1
7/4/05 6:00	202	2.68224	20.6	19.5	18.9	90	11.32	190	984.42	19.2	19.6	0.4
7/4/05 7:00	217	4.02396	23.3	18.5	15.6	62	9.26	200	983.41	20.9	21.3	0.4
7/4/05 8:00	296	3.12928	23.3	19.4	17.2	69	4.12	320	987.13	21.7	21.6	-0.2
7/4/05 9:00	221	3.12928	25.6	21.2	18.9	67	6.69	320	987.13	23.9	23.1	-0.8
7/4/05 10:00	261	3.57632	27.2	21.7	18.9	61	5.66	350	987.47	25.8	24.9	-0.9
7/4/05 11:00	250	2.68224	28.3	22	18.9	57	5.14	340	988.49	27	26.1	-0.9
7/4/05 12:00	296	2.68224	29.4	22.7	19.4	55	3.60	310	988.83	27.9	26.9	-1
7/4/05 13:00	278	3.12928	30	22.6	18.9	51	5.14	340	988.49	28.5	27.6	-0.9
7/4/05 14:00	136	2.2352	29.4	22.7	19.4	55	4.12	340	988.49	28.9	28	-0.9
7/4/05 15:00	145	2.68224	30.6	23	19.4	51	4.12	360	988.15	29.2	28.2	-1
7/4/05 16:00	129	2.2352	30.6	23.4	20	53	3.09	20	988.49	28.8	28.1	-0.7
7/4/05 17:00	104	1.78816	30	22.8	19.4	53	3.60	30	988.49	28.6	28.1	-0.5
7/4/05 18:00	56	1.78816	28.9	22.2	18.9	55	2.57	50	989.16	27.5	27.4	-0.1
7/4/05 19:00	84	0.44704	27.8	21.9	18.9	58	2.06	70	989.50	24.9	26.4	1.5
7/4/05 20:00	101	0	25.6	21.9	20	71	2.06	90	989.84	23	25.5	2.5
7/4/05 21:00	67	0	23.9	21.3	20	79	2.06	110	990.52	22.9	24.8	1.9
7/4/05 22:00	88	0.44704	25	21.3	19.4	71	2.06	90	990.52	21.8	24.5	2.7
7/4/05 23:00	152	0.44704	22.2	20.8	20	67	1.54	10	990.86	22.2	24.1	1.9
7/5/05 0:00	77	0.44704	22.2	20.8	20	87	2.06	10	990.18	22.2	23.4	1.2
7/5/05 1:00	120	0.89408	23.3	21.1	20	82	3.60	20	989.84	21.9	23.2	1.3
7/5/05 2:00	133	0.44704	21.1	20.4	20	93	2.06	320	989.84	21.5	22.4	0.9
7/5/05 3:00	115	0.44704	21.1	20	19.4	90	0.00	0	990.52	20.9	21.7	0.8
7/5/05 4:00	257	0.44704	21.7	20.2	19.4	87	3.09	250	991.87	20.2	20.8	0.6
7/5/05 5:00	185	0.44704	21.1	20.4	20	93	2.57	340	991.87	19.6	20.3	0.7
7/5/05 6:00	168	0.44704	23.3	21.1	20	82	0.00	0	991.53	22	21.9	-0.1
7/5/05 7:00	124	0.89408	23.9	22	21.1	84	4.12	110	990.86	22.5	22.3	-0.1
7/5/05 8:00	69	1.78816	25	22.4	21.1	79	3.09	40	991.53	23.1	22.8	-0.3
7/5/05 9:00	79	1.78816	26.1	22.7	21.1	74	2.57	60	991.53	24.6	24	-0.5
7/5/05 10:00	81	1.34112	27.8	22.9	20.6	65	2.57	80	991.87	26	25.2	-0.8
7/5/05 11:00	62	1.78816	28.3	23.1	20.6	63	2.06	20	991.20	26.5	25.7	-0.8
7/5/05 12:00	79	1.78816	29.4	23	20	57	2.57	50	990.86	27.4	26.4	-0.9
7/5/05 13:00	71	2.2352	30.6	23	19.4	51	2.06	60	990.52	27.8	27	-0.8
7/5/05 14:00	50	2.2352	29.4	22.7	19.4	55	3.09	60	990.18	28.5	27.5	-1
7/5/05 15:00	51	2.2352	29.4	23	20	57	4.63	20	989.84	28.8	27.9	-0.9
7/5/05 16:00	62	2.2352	29.4	22	18.3	51	4.12	60	989.84	28.3	27.9	-0.4
7/5/05 17:00	63	2.2352	29.4	22	18.3	51	4.63	80	989.50	28.2	28	-0.2
7/5/05 18:00	81	1.34112	27.2	22.7	20.6	67	2.57	110	989.50	27.2	27.3	0.1
7/5/05 19:00	77	0.44704	26.1	22.4	20.6	72	2.06	90	989.16	24.9	25.7	0.9
7/5/05 20:00	79	0.44704	25.6	22.2	20.6	74	0.00	0	990.18	23.7	24.8	1.1
7/5/05 21:00	168	0	24.4	21.9	20.6	79	1.54	60	990.52	22.9	23.9	1
7/5/05 22:00	170	0	22.8	21.3	20.6	87	1.54	130	989.84	21.9	23.1	1.2
7/5/05 23:00	166	0.44704	22.2	21.1	20.6	91	0.00	0	990.18	21	22	0.9
7/6/05 0:00	118	0.44704	22.2	20.8	20	87	2.06	50	989.84	20.5	21.5	1
7/6/05 1:00	174	0.44704	20.6	19.8	19.4	93	2.06	320	989.50	20.1	21.2	1.1
7/6/05 2:00	233	0.44704	20	18.9	18.3	90	1.54	320	989.84	19.2	20.6	1.4
7/6/05 3:00	116	0.44704	18.9	18.2	17.8	93	2.06	360	989.50	18.7	19.8	1.1
7/6/05 4:00	211	0	19.4	18.4	17.8	91	0.00	0	989.50	18.3	19.7	1.4
7/6/05 5:00	163	0.44704	19.4	18.7	18.3	93	1.54	320	990.18	19	19.9	0.9
7/6/05 6:00	92	0.44704	21.1	19.7	18.9	87	2.06	360	990.18	20.7	20.6	-0.1
7/6/05 7:00	76	0.89408	23.9	21	19.4	76	1.54	240	990.86	23.1	22.4	-0.7
7/6/05 8:00	116	0.44704	26.7	21.9	19.4	64	2.06	70	989.84	25.2	25.1	-0.1
7/6/05 9:00	109	1.78816	28.3	22.7	20	61	5.14	120	990.18	27.3	26.2	-1.1
7/6/05 10:00	125	2.2352	29.4	22.4	18.9	53	6.17	120	990.52	28.7	27.7	-1.2
7/6/05 11:00	115	2.2352	29.4	21.8	17.8	50	3.60	90	990.18	28.9	28	-0.9
7/6/05 12:00	118	1.78816	29.4	22	18.3	51	3.09	140	989.84	29.2	28.3	-0.9
7/6/05 13:00	106	1.78816	30.6	22.1	17.8	46	2.57	120	989.84	29.5	28.6	-0.9
7/6/05 14:00	92	1.78816	30.6	22.4	18.3	48	3.60	100	989.16	29.5	28.8	-0.7
7/6/05 15:00	103	1.78816	30.6	22.1	17.8	46	2.57	100	988.83	29.6	29	-0.6
7/6/05 16:00	82	1.78816	30.6	22.4	18.3	48	3.60	110	988.49	29.4	28.9	-0.5
7/6/05 17:00	106	1.34112	30	22.2	18.3	50	2.57	100	988.15	29.1	28.8	-0.3
7/6/05 18:00	90	0.89408	29.4	22	18.3	51	2.57	100	988.49	28	28	0
7/6/05 19:00	101	0.89408	27.2	21.7	18.9	61	2.06	100	988.15	25.9	26.8	0.9
7/6/05 20:00	149	0	26.1	21.4	18.9	65	2.06	100	988.49	24.2	26.1	1.9
7/6/05 21:00	102	0.44704	25	21.7	20	74	0.00	0	989.16	23.1	25.9	2.7
7/6/05 22:00	255	0	22.8	21	20	84	0.00	0	989.16	22.5	25.9	3.4
7/6/05 23:00	173	0	22.2	20.8	20	87	1.54	340	989.16	22	25.6	3.6
7/7/05 0:00	215	0	22.8	21.3	20.6	87	0.00	0	988.83	21.2	24.7	3.5
7/7/05 1:00	173	0	21.7	20.6	20	90	1.54	300	989.83	21.2	23.8	2.6
7/7/05 2:00	105	0	20.6	19.8	19.4	93	2.06	350	988.15	21	23.1	2.1
7/7/05 3:00	164	0	20	19.3	18.9	93	1.54	350	988.49	20.4	22.3	1.9
7/7/05 4:00	204	0.44704	20.6	19.5	18.9	90	0.00	0	989.16	20.6	22	1.4
7/7/05 5:00	160	0	20.6	19.5	18.9	90	1.54	120	989.50	19.9	21.2	1.2
7/7/05 6:00	153	0	22.2	20.8	20	87	1.54	100	989.50	21.7	21.7	0
7/7/05 7:00	132	0	25	22.1	20.6	77	1.54	180	990.18	22.9	22.6	-0.4
7/7/05 8:00	195	0.89408										

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{SEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
7/3/05 9:00	65.8	3.2	4.4	1.2	7.1	0.9	165.7	11.3	677.3	2.44	0	978.21
7/3/05 10:00	62.5	3.6	4.8	1.2	9.1	1.1	150.6	14.7	822	2.96	0	977.7
7/3/05 11:00	57.3	3.3	4.3	1	7.5	1	178	15.1	900.5	3.24	0	977.66
7/3/05 12:00	54.6	3	4.1	1.1	6.8	0.9	168.8	15.5	905.6	3.26	0	977.39
7/3/05 13:00	51	3.4	4.6	1.2	8.1	1	170.8	15.5	900.5	3.24	0	976.62
7/3/05 14:00	48.6	3.5	4.6	1.2	8.2	1	140.2	16.7	831.1	2.99	0	975.81
7/3/05 15:00	48.9	3.3	4.5	1.2	8	1.1	162.2	16.1	697.1	2.51	0	975.68
7/3/05 16:00	48.3	2.9	3.8	0.9	7	1	161.1	14.3	527.7	1.9	0	974.91
7/3/05 17:00	47.8	2.6	3.6	1	7.3	0.9	158.2	14.9	316	1.14	0	973.91
7/3/05 18:00	51.4	1.8	2.7	0.9	6.7	0.7	159.9	14.3	56.9	0.2	0	973.83
7/3/05 19:00	55.5	1.2	2.2	1	6.2	0.5	144.9	11.5	5.4	0.02	0	974.52
7/3/05 20:00	63.8	1	2.1	1.1	3.7	0.4	119	9.5	0	0	0	975.12
7/3/05 21:00	69.5	1.9	2.9	1	6.8	0.5	33.6	9.9	0	0	0	977.33
7/3/05 22:00	68.3	4.8	6.6	1.7	15.1	1.7	29.6	13.9	0	0	0	979.33
7/3/05 23:00	69.3	3.9	5.4	1.5	11.2	1.4	98.2	18.1	0	0	0	980.06
7/4/05 0:00	72.5	4.7	6.6	1.9	19.1	1.9	152.1	21.3	0	0	0.29	978.57
7/4/05 1:00	95.3	2.5	3.5	1	11.6	0.9	182.8	17.1	0	0	0.15	980.86
7/4/05 2:00	96	2.6	4	1.3	6.9	1	203.4	13.9	0	0	0.21	982.58
7/4/05 3:00	95.6	3.2	4.6	1.4	8	1	68.9	11.6	0	0	0.2	982.23
7/4/05 4:00	95.3	1.7	2.4	0.8	5.8	0.6	191	13.4	0	0	0.21	981.97
7/4/05 5:00	94.8	4.8	6.7	1.9	14.3	1.3	163.1	12.2	0.8	0	0.03	979.48
7/4/05 6:00	86.7	6.6	8.8	2.2	15.2	1.7	155.6	11.2	9.1	0.03	0	976.4
7/4/05 7:00	76.2	3.8	5.4	1.6	13.9	1.5	244.9	21.2	62.2	0.22	0	978.08
7/4/05 8:00	78.8	2	2.9	1	7.3	1	292.1	18.5	276.7	1	0	980.46
7/4/05 9:00	74.5	2.5	3.5	1.1	7	1.1	296.3	18.3	684	2.46	0	980.4
7/4/05 10:00	66.9	2.6	3.6	1	7.3	1.2	288	18.3	842.9	3.03	0	980.61
7/4/05 11:00	63.6	2.3	3.3	1	6.6	1	291.8	20.2	916.2	3.3	0	981.11
7/4/05 12:00	61.3	2.2	3.1	0.9	6.2	0.9	304.6	20	957.1	3.45	0	981.83
7/4/05 13:00	60.2	2.1	2.9	0.8	6.4	0.9	276.4	18.9	871.9	3.14	0	981.93
7/4/05 14:00	58.3	2.3	3.3	1	5.9	0.8	315.8	17.3	764.4	2.75	0	981.85
7/4/05 15:00	58.4	1.7	2.4	0.7	4.7	0.6	45.3	19.3	697.1	2.51	0	981.85
7/4/05 16:00	58.8	1.2	1.9	0.7	3.7	0.6	22.4	18.4	469.8	1.69	0	981.83
7/4/05 17:00	58.5	0.9	1.6	0.6	2.7	0.4	35.3	16.3	339.6	1.22	0	982.1
7/4/05 18:00	62.4	0.6	1.4	0.7	2.3	0.2	28.7	8.8	169.7	0.61	0	982.37
7/4/05 19:00	71.6	0.2	1.2	1	2.1	0.1	37.3	5.8	24.5	0.09	0	982.77
7/4/05 20:00	82.7	0	0.8	0.8	1.5	0.1	99.3	5.1	0	0	0	983.16
7/4/05 21:00	82.7	0.1	0.8	0.7	1.3	0.1	92.8	5.4	0	0	0	983.53
7/4/05 22:00	86.9	0.2	0.9	0.7	1.6	0.1	69.4	5.5	0	0	0	983.94
7/4/05 23:00	83.3	0.5	1.4	0.8	2.5	0.2	24.6	8.6	0	0	0	984.27
7/5/05 0:00	83.3	0.8	1.7	0.9	2.9	0.3	23.7	9.6	0	0	0	983.61
7/5/05 1:00	83.2	0.9	1.9	0.9	3.3	0.3	23.9	9.1	0	0	0	983.54
7/5/05 2:00	85.3	1	1.9	1	3.5	0.3	23.2	9.4	0	0	0	983.35
7/5/05 3:00	86.2	1.2	2.1	0.9	3.7	0.4	30.8	10.6	0	0	0	983.38
7/5/05 4:00	89.6	0.7	1.3	0.6	3.5	0.3	77.7	16.3	0.1	0	0	984.09
7/5/05 5:00	93.6	0.1	0.6	0.6	1.5	0.1	182.2	5.5	37.3	0.13	0	984.92
7/5/05 6:00	89.8	0.8	1.4	0.6	3.5	0.3	168.3	10.9	131.6	0.47	0	984.67
7/5/05 7:00	86.2	1.4	2.2	0.8	4.8	0.5	114	13	168.6	0.61	0	984.27
7/5/05 8:00	86.6	1.2	1.8	0.6	3.8	0.4	46.1	13.4	209.7	0.75	0	984.92
7/5/05 9:00	80.7	1.9	2.6	0.8	5.2	0.7	54.5	14.4	408.8	1.47	0	984.77
7/5/05 10:00	73.1	1.2	1.7	0.6	4.4	0.6	44.7	22.7	470.5	1.69	0	985.17
7/5/05 11:00	69.8	1.7	2.4	0.7	4.7	0.6	48.1	15.4	573.9	2.07	0	985.06
7/5/05 12:00	65.7	2	2.8	0.8	5	0.6	44.8	15.6	768.5	2.77	0	984.73
7/5/05 13:00	63.8	1.9	2.7	0.7	5.3	0.7	55.6	17.2	684.4	2.46	0	984.42
7/5/05 14:00	64.4	2.2	3.1	0.9	6.4	0.8	44.8	18.4	813.3	2.93	0	983.99
7/5/05 15:00	58.4	1.7	2.5	0.8	4.8	0.7	52.3	19.4	724.5	2.61	0	983.67
7/5/05 16:00	57.3	1.6	2.3	0.8	4.7	0.6	62.5	15	478.8	1.72	0	983.36
7/5/05 17:00	54.6	1.8	2.5	0.7	6.1	0.7	55.7	14.4	362.5	1.31	0	983.2
7/5/05 18:00	58.7	1	1.8	0.8	4.7	0.4	53.4	12	171.7	0.62	0	983.02
7/5/05 19:00	69.8	0.3	1.3	1	2.4	0.2	46.2	10.7	19.6	0.07	0	982.85
7/5/05 20:00	74.3	0.4	1.3	0.9	2.7	0.3	29.3	11.6	0	0	0	983.39
7/5/05 21:00	74.6	0.7	1.7	0.9	3	0.4	44.7	12.1	0	0	0	983.69
7/5/05 22:00	73.5	0.7	1.7	1	3.4	0.3	44.3	10.9	0	0	0	983.4
7/5/05 23:00	81.3	1	1.9	0.9	2.9	0.3	35.8	10.4	0	0	0	983.22
7/6/05 0:00	84.8	1	1.9	0.9	3.5	0.3	35.1	9.3	0	0	0	983.2
7/6/05 1:00	86	0.8	1.7	0.9	2.8	0.2	50.8	7.9	0	0	0	982.76
7/6/05 2:00	90.2	0.7	1.5	0.8	2.5	0.2	185.8	8	0	0	0	982.94
7/6/05 3:00	92.8	0.7	1.8	1.1	2.8	0.2	237.8	8.5	0	0	0	982.81
7/6/05 4:00	93.8	0.3	1.2	0.9	2.6	0.2	67.8	7.5	0	0	0	982.38
7/6/05 5:00	91.9	0.7	1.9	1.2	3	0.2	41.2	6.9	28.4	0.1	0	983.01
7/6/05 6:00	87.4	1.4	2.2	0.8	3.6	0.4	49.8	8.9	169.8	0.61	0	983.28
7/6/05 7:00	79.6	0.8	1.4	0.6	2.8	0.3	71.9	12.8	346.4	1.25	0	983.56
7/6/05 8:00	68.9	0.6	1.1	0.5	2.6	0.4	101.3	16.9	555.7	2	0	984.16
7/6/05 9:00	66.6	1.8	2.5	0.7	4.9	0.7	111.7	16	732	2.64	0	983.8
7/6/05 10:00	58.1	1.8	2.5	0.8	4.8	0.7	112.6	17.7	844.2	3.04	0	983.86
7/6/05 11:00	53	2.1	3	0.9	5.4	0.7	108.4	17.1	805.3	2.9	0	983.68
7/6/05 12:00	52.8	2.1	2.9	0.9	6.2	0.8	123.1	17.1	779.3	2.81	0	983.34
7/6/05 13:00	52.8	1.5	2.2	0.8	4.5	0.6	97.6	19.2	775.9	2.79	0	983.2
7/6/05 14:00	51.5	1.5	2.2	0.7	4.8	0.6	87.5	16	682.3	2.46	0	982.82
7/6/05 15:00	51.8	1.1	1.8	0.7	4.8	0.5	104.3	19.8	603.7	2.17	0	982.29
7/6/05 16:00	53.6	1	1.7	0.7	4.2	0.5	92.2	16	472.2	1.7	0	981.89
7/6/05 17:00	52.8	1.1	1.9	0.8	3.7	0.5	99.1	14.1	349.2	1.26	0	981.58
7/6/05 18:00	58.3	0.2	1.1	0.9	2.8	0.3	87.7	11.6	156.8	0.56	0	981.66
7/6/05 19:00	63.7	0	1	1	1.7	0.2	106.7	8.5	23.3	0.08	0	981.67
7/6/05 20:00	71.3	0	0.8	0.8	2.5	0.2	94.7	7	0	0	0	981.72
7/6/05 21:00	76.8	0	0.8	0.8	1.2	0.1	78.3	4.5	0	0	0	982.22
7/6/05 22:00	78.8	0.3	0.8	0.5	1.3	0.1	92.3	3.8	0	0	0	982.51
7/6/05 23:00	79.3	0.7	1.2	0.5	1.8	0.1	77.1	2.5	0	0	0	982.49
7/7/05 0:00	82.4	0.6	1.3	0.7	1.7	0.1	65.4	3.6	0	0	0	982.32
7/7/05 1:00	83.3	0.6	1.4	0.8	2.1	0.1	46.6	4.6	0	0	0	981.94
7/7/05 2:00	84.8	1.1	1.9	0.8	2.7	0.2	50.2	5.3	0	0	0	981.67
7/7/05 3:00	89.3	0.8	1.8	0.9	2.5	0.2	50.5	5	0	0	0	981.63
7/7/05 4:00	87.9	0.5	1.7	1.2	2.4	0.2	65.9	6.1	0.1	0	0	982.04
7/7/05 5:00	90.3	0.2	0.9	0.8	2.3	0.3	88.1	10.3	26.7	0.1	0	982.44
7/7/05 6:00	86.8	0.3	1.2	0.9	2.3	0.2	83.9	11.7	157.3	0.57	0	982.64
7/7/05 7:00	83.3	0.7	1.3	0.6	3.8	0.3	104.9	15.5	251.1	0.9	0	983.08
7/7/05 8:00	75	1.5	2.1	0.6	4.1	0.5	184.3	12.6	437.3	1.57	0	983.83
7/7/05 9:00	69.5	2	2.8	0.8	5.4	0.6	170.6	13.3	684.1	2.46	0	984.04
7/7/05 10:00	59.8	2	2.6	0.7	5.9	0.8	156.2	17.1	842.8	3.03	0	984.07
7/7/05 11:00	54.3	1.7	2.3	0.6	5.2	0.7	158.5	20.5	827.5	2.98	0	983.92
7/7/05 12:00	49.3	1.8	2.5	0.7	5.7	0.7	151.1	18.6	879.9	3.17		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
7/8/05 0:00	0.04409	25.2	1.8	2.2	292.5	8	0	0.007	0.015	0.022	28.8	21.11	90		
7/8/05 1:00	0.05318	25.8	0.3	5.8	112.5	7.6	0.001	0.004	0.011	0.015	29.2	20.56	92		
7/8/05 2:00	0.02084	25.4	0.4	5.8	112.5	8	0	0.004	0.009	0.013	29.6	20.00	93		
7/8/05 3:00	0.03553	24.7	1.4	4.5	112.5	8.9	0	0.005	0.009	0.014	28.6	20.00	93		
7/8/05 4:00	0.03972	24.1	1.3	4.5	202.5	9.4	0	0.009	0.007	0.016	26	19.44	94		
7/8/05 5:00	0.0445	24.9	0.5	5.8	180	8	0	0.018	0.005	0.024	28.1	19.44	94		
7/8/05 6:00	0.04279	24.5	0.5	4	180	6.7	0.001	0.029	0.01	0.038	26.2	21.11	89		
7/8/05 7:00	0.03107	24.3	0.4	4.5	180	6.7	0.011	0.022	0.021	0.043	28.2	26.11	71		
7/8/05 8:00	0.02808	24.9	1.2	3.1	180	7.2	0.039	0.003	0.015	0.018	28.3	28.89	63		
7/8/05 9:00	0.04663	27.7	4.7	1.8	180	4.5	0.066	0.001	0.013	0.013	30.9	30.00	59		
7/8/05 10:00	0.06181	32.5	4	1.3	202.5	3.6	0.066	0	0.01	0.01	31.4	31.11	53		
7/8/05 11:00	0.05332	34.7	5.2	1.8	202.5	4	0.06	0	0.005	0.005	24.9	31.67	47		
7/8/05 12:00	0.05786	37.4	3.6	1.8	202.5	4.5	0.07	0	0.005	0.004	26.8	31.67	44		
7/8/05 13:00	0.06438	38.3	3.8	1.3	202.5	4	0.073	0	0.005	0.005	29.4	32.22	44		
7/8/05 14:00	0.05965	37.4	3.3	1.8	202.5	4.9	0.068	0	0.005	0.004	26.1	32.22	44		
7/8/05 15:00	0.05572	36.3	2.6	1.8	202.5	5.4	0.065	0	0.005	0.005	23.9	32.22	43		
7/8/05 16:00	0.06481	33.8	3.6	2.2	202.5	5.4	0.067	0	0.006	0.006	24.7	32.22	41		
7/8/05 17:00	0.06608	32.2	1.4	2.2	202.5	5.8	0.061	0	0.007	0.007	23.4	31.67	44		
7/8/05 18:00	0.06691	30.6	1.8	2.2	202.5	5.8	0.059	0	0.008	0.008	22.8	31.11	45		
7/8/05 19:00	0.07328	29.1	1.3	2.7	112.5	6.3	0.044	0.001	0.019	0.02	25.3	28.89	50		
7/8/05 20:00	0.07071	27.7	1.3	3.6	112.5	5.4	0.012	0.008	0.04	0.047	27.8	25.56	67		
7/8/05 21:00	0.07093	26.7	0.6	3.6	112.5	5.4	0	0.027	0.036	0.064	27.1	23.89	78		
7/8/05 22:00	0.0738	26.4	0.4	3.6	112.5	4.9	0.001	0.025	0.027	0.052	31.9	22.78	84		
7/8/05 23:00	0.0681	26.2	0.4	1.3	112.5	4.9	0	0.013	0.022	0.035	30.6	21.67	88		
7/9/05 0:00	0.05803	25.8	0.4	4	112.5	6.3	0	0.014	0.018	0.032	29.8	21.11	91		
7/9/05 1:00	0.04778	25.3	0.9	2.2	112.5	6.7	0	0.013	0.014	0.027	28.7	20.56	92		
7/9/05 2:00	0.05805	25.8	1.1	3.1	135	11.6	0	0.016	0.011	0.027	28.2	20.00	93		
7/9/05 3:00	0.05885	25.2	0.8	4.5	202.5	9.4	0	0.02	0.009	0.028	30.9	19.44	94		
7/9/05 4:00	0.05637	24.7	0.4	8	202.5	11.2	0	0.016	0.007	0.023	28.6	19.44	94		
7/9/05 5:00	0.05668	24.3	0.5	8.5	202.5	10.7	0	0.016	0.006	0.022	29.3	19.44	93		
7/9/05 6:00	0.05631	24	0.3	7.6	202.5	9.8	0.001	0.026	0.009	0.035	29.3	21.67	86		
7/9/05 7:00	0.05199	24.1	0.5	6.7	202.5	9.4	0.03	0.003	0.012	0.014	34.4	26.11	67		
7/9/05 8:00	0.05144	24.7	1.5	6.3	202.5	8.9	0.051	0	0.007	0.007	34.2	28.33	58		
7/9/05 9:00	0.05683	26.5	2.5	4	202.5	8.5	0.06	0	0.006	0.006	38.2	28.89	56		
7/9/05 10:00	0.06325	31.4	7	1.8	202.5	4.9	0.072	0	0.005	0.005	36.8	30.56	49		
7/9/05 11:00	0.0746	36.6	4.6	0.9	202.5	4.5	0.078	0	0.005	0.004	34.7	31.11	41		
7/9/05 12:00	0.07994	39.3	2.9	1.3	112.5	4.9	0.073	0	0.005	0.005	31.3	32.22	38		
7/9/05 13:00	0.07882	38.5	3.7	1.8	112.5	5.4	0.073	0	0.006	0.006	31	32.22	36		
7/9/05 14:00	0.07561	37.1	2.3	2.2	112.5	6.7	0.073	0	0.004	0.004	31.4	32.78	33		
7/9/05 15:00	0.08503	34.8	4.7	3.1	112.5	6.5	0.067	0	0.002	0.002	27.3	32.78	31		
7/9/05 16:00	0.07956	33.4	1.8	2.7	112.5	6.7	0.065	0	0.002	0.002	27.1	32.78	33		
7/9/05 17:00	0.07488	32.3	2.3	2.2	112.5	7.2	0.063	0	0.003	0.003	31.9	32.22	35		
7/9/05 18:00	0.07291	30.4	2	3.6	112.5	8.5	0.061	0	0.005	0.005	38.1	31.67	38		
7/9/05 19:00	0.07312	29.3	1.2	1.8	247.5	5.4	0.039	0.001	0.019	0.02	40.1	28.89	52		
7/9/05 20:00	0.07403	27.8	1.6	1.3	270	3.6	0.013	0.009	0.037	0.046	44.6	25.00	69		
7/9/05 21:00	0.06886	26.7	1	0.9	270	4	0.007	0.004	0.035	0.038	46.8	23.89	76		
7/9/05 22:00	0.06217	26	0.8	0.9	292.5	2.7	0.003	0.015	0.03	0.046	43.4	22.78	82		
7/9/05 23:00	0.06507	26.4	0.7	3.1	112.5	9.8	0	0.019	0.025	0.043	45.7	22.22	84		
7/10/05 0:00	0.05615	26	0.7	4	112.5	11.2	0.002	0.01	0.021	0.031	45	21.67	85		
7/10/05 1:00	0.05414	25.4	0.3	4.9	112.5	12.1	0.002	0.013	0.019	0.032	47.7	22.22	83		
7/10/05 2:00	0.05255	25.2	0.9	4.5	112.5	13	0.003	0.005	0.018	0.023	44.8	21.67	85		
7/10/05 3:00	0.0492	24.3	0.7	4.5	112.5	11.2	0.002	0.005	0.016	0.02	43.3	21.11	87		
7/10/05 4:00	0.04735	23.6	0.5	4	112.5	10.3	0	0.006	0.011	0.017	40.1	20.00	90		
7/10/05 5:00	0.04587	23.2	0.4	4	135	9.4	0.001	0.006	0.011	0.016	40	20.00	91		
7/10/05 6:00	0.0446	23	0.2	3.6	112.5	8.5	0.009	0.005	0.01	0.015	22	40.5	22.22	85	
7/10/05 7:00	0.04461	23.4	1.2	4	112.5	8.9	0.003	0.001	0.008	0.009	31.9	26.11	86		
7/10/05 8:00	0.0454	25.4	3.1	2.2	112.5	7.6	0.044	0	0.004	0.004	27.8	28.33	59		
7/10/05 9:00	0.04868	28.9	2.9	1.8	180	5.4	0.051	0	0.002	0.002	34.1	29.44	55		
7/10/05 10:00	0.05402	32.3	3.9	1.8	202.5	5.4	0.055	0	0.002	0.001	31.6	30.56	51		
7/10/05 11:00	0.05584	36.1	5.1	1.3	112.5	4	0.063	0	0.003	0.002	30.3	31.67	48		
7/10/05 12:00	0.0598	37.8	4.4	1.3	112.5	6.7	0.064	0	0.003	0.002	30.3	31.67	46		
7/10/05 13:00	0.06493	38.7	4.6	1.3	112.5	4.5	0.063	0	0.003	0.003	32.2	32.22	43		
7/10/05 14:00	0.06934	37.1	6.1	1.3	112.5	4.9	0.064	0	0.004	0.004	31.9	32.22	42		
7/10/05 15:00	0.06997	36.9	5.2	1.3	112.5	5.8	0.07	0	0.004	0.004	36.2	32.78	41		
7/10/05 16:00	0.07076	35.4	4.4	0.9	135	5.4	0.063	0	0.004	0.004	35	33.33	41		
7/10/05 17:00	0.0726	32.4	2.5	1.8	225	4.9	0.061	0	0.005	0.005	39.9	32.78	45		
7/10/05 18:00	0.0695	31.1	1.4	2.2	247.5	8	0.052	0	0.004	0.004	35.5	30.56	50		
7/10/05 19:00	0.06114	28.4	3.8	4.9	112.5	13.9	0.045	0	0.006	0.005	32	27.78	59		
7/10/05 20:00	0.05221	25.9	0.9	5.8	112.5	10.7	0.036	0	0.011	0.011	25.7	26.67	65		
7/10/05 21:00	0.04618	25.3	0.8	4	112.5	8	0.026	0.001	0.013	0.014	29.6	25.00	74		
7/10/05 22:00	0.04451	24.7	0.5	4	112.5	7.6	0.015	0.001	0.017	0.019	33.5	23.89	80		
7/10/05 23:00	0.03869	24.2	0.4	3.6	112.5	7.2	0.013	0	0.013	0.013	37	23.89	83		
7/11/05 0:00	0.03236	23.8	0.8	2.2	112.5	5.8	0.008	0	0.012	0.013	35.5	22.22	82		
7/11/05 1:00	0.03511	23.4	0.4	2.2	112.5	5.4	0.007	0	0.01	0.009	31.5	21.67	89		
7/11/05 2:00	0.03494	23.3	0.3	2.7	112.5	4.5	0.008	0	0.007	0.007	32.4	21.67	90		
7/11/05 3:00	0.03469	22.9	0.9	1.8	112.5	3.6	0.012	0	0.006	0.006	39.5	21.11	91		
7/11/05 4:00	0.02594	22.2	0.2	1.8	0	4.5	0.006	0.001	0.007	0.008	39.2	21.11	92		
7/11/05 5:00	0.03653	22.6	1	1.8	112.5	4	0.006	0.001	0.008	0.01	36.3	21.11	93		
7/11/05 6:00	0.03267	22.4	0.8	1.8	112.5	4.5	0.008	0.004	0.008	0.012	36.2	21.67	90		
7/11/05 7:00	0.02259	23.1	2.2	1.3	0	4	0.014	0.007	0.01	0.016	40.3	23.89	82		
7/11/05 8:00	0.03068	25.9	2.9	1.8	22.5	4.9	0.021	0.01	0.014	0.024	43.2	26.11	73		
7/11/05 9:00	0.02552	29.8	4.8	0.4	22.5	2.2	0.044	0.001	0.006	0.007	38.8	28.33	64		
7/11/05 10:00	0.03933	34.4	4.3	0.4	0	2.2	0.051	0	0.005	0.005	37.5	29.44	59		
7/11/05 11:00	0.05376	38.1	3.7	0.9	292.5	4	0.05	0	0.004	0.004	37.1	30.56	56		
7/11/05 12:00	0.04887	37.2	6.1	0.9	315	4.5	0.052	0	0.008	0.008	34.9	31.67	51		
7/11/05 13:00	0.05188	37.9	5.7	0.9	0	5.4	0.068	0	0.008	0.008	48.4	32.22	48		
7/11/05 14:00	0.05974	37.3	4.7	1.3											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
7/8/05 0:00	193	0	24.4	21.1	19.4	74	0.00	0	989.50	24	25.3	1.3
7/8/05 1:00	99	0	23.9	20.7	18.9	74	1.54	80	989.50	23.2	24.7	1.5
7/8/05 2:00	217	0	22.8	20.6	19.4	81	0.00	0	989.50	22.4	23.8	1.4
7/8/05 3:00	192	0	21.7	19.5	18.3	81	2.57	140	989.50	21.8	23.5	1.7
7/8/05 4:00	164	0	21.7	19.5	18.3	81	2.06	110	989.84	21.4	22.6	1.2
7/8/05 5:00	155	0	21.7	19.9	18.9	84	1.54	130	990.52	20.7	21.6	0.9
7/8/05 6:00	197	0	23.9	21.3	20	79	0.00	0	990.86	23	22.7	-0.3
7/8/05 7:00	163	0.44704	26.7	22.6	20.6	69	3.09	190	991.20	25.3	24.6	-0.7
7/8/05 8:00	210	0.89408	28.3	23.1	20.6	63	1.54	0	991.87	27	26	-1
7/8/05 9:00	202	0.89408	30	23.6	20.6	57	0.00	0	991.87	28.3	27.3	-1
7/8/05 10:00	200	1.34112	31.1	23.5	20	52	0.00	0	991.53	29.4	28.3	-1
7/8/05 11:00	221	0.89408	31.7	22.7	18.3	45	1.54	0	991.20	29.9	29.1	-0.9
7/8/05 12:00	212	0.89408	31.7	23	18.9	47	3.09	110	990.18	30.8	29.9	-0.9
7/8/05 13:00	183	0.89408	32.2	23.2	18.9	45	3.60	110	989.84	31.3	30.4	-0.9
7/8/05 14:00	170	1.34112	32.8	23	18.3	42	4.12	140	989.16	31.2	30.5	-0.7
7/8/05 15:00	161	1.34112	32.2	22.6	17.8	42	4.12	120	988.49	31.2	30.6	-0.6
7/8/05 16:00	145	1.78816	31.7	22.7	18.3	45	3.60	130	988.49	31.1	30.6	-0.5
7/8/05 17:00	143	1.34112	31.1	22.5	18.3	46	2.57	110	988.15	29.8	29.7	-0.1
7/8/05 18:00	128	1.34112	30	22.6	18.9	51	2.57	120	988.15	28.8	28.9	0.1
7/8/05 19:00	109	0.89408	28.3	21.7	18.3	55	2.57	100	988.15	26.9	28	1.1
7/8/05 20:00	88	0	26.7	21.6	18.9	62	2.06	130	988.83	25.5	27.2	1.7
7/8/05 21:00	125	0	26.7	21.9	19.4	64	1.54	110	989.16	24.8	27.2	2.4
7/8/05 22:00	115	0.44704	25.6	21.5	19.4	69	0.00	0	989.16	24	26.5	2.5
7/8/05 23:00	222	0	23.9	21.3	20	79	0.00	0	989.50	23.9	26	2.1
7/9/05 0:00	140	0	23.3	21.1	20	82	0.00	0	989.16	23.4	25.6	2.2
7/9/05 1:00	229	0	23.3	21.1	20	82	0.00	0	989.16	23.4	25.4	2
7/9/05 2:00	178	0	22.2	20.4	19.4	84	2.06	140	989.16	23.4	24.7	1.2
7/9/05 3:00	223	0	22.2	20.1	18.9	82	2.57	150	989.50	22.9	23.7	0.8
7/9/05 4:00	94	0	22.2	19.7	18.3	79	1.54	140	990.18	22.2	22.9	0.6
7/9/05 5:00	173	0	21.7	19.5	18.3	81	2.06	140	990.18	21.7	22.3	0.7
7/9/05 6:00	123	0	24.4	20.5	18.3	69	2.06	180	990.86	22.9	22.9	0
7/9/05 7:00	172	0.89408	26.7	20.9	17.8	58	4.12	160	991.20	24.7	24.2	-0.6
7/9/05 8:00	185	1.78816	27.8	21.6	18.3	56	3.60	170	991.20	26.5	25.7	-0.8
7/9/05 9:00	171	1.78816	28.9	22.2	18.9	55	2.57	150	991.20	28.5	27.5	-1
7/9/05 10:00	163	1.34112	30.6	22.1	17.8	46	4.12	130	991.20	29.6	28.5	-1.2
7/9/05 11:00	132	1.34112	31.7	21.8	16.7	41	2.57	120	990.86	30.4	29.2	-1.2
7/9/05 12:00	96	1.78816	32.2	22.6	17.8	42	3.60	150	990.18	30.9	29.9	-1
7/9/05 13:00	81	2.2352	32.2	22	16.7	39	5.66	100	989.50	31.4	30.5	-0.9
7/9/05 14:00	111	1.78816	32.8	22	14.4	33	4.12	130	988.83	31.5	30.8	-0.6
7/9/05 15:00	126	1.78816	32.2	20.8	14.4	34	4.12	100	988.15	31.6	31	-0.6
7/9/05 16:00	131	2.2352	32.2	21.7	16.1	38	3.09	120	987.81	31.5	30.9	-0.6
7/9/05 17:00	127	2.2352	31.7	21.5	16.1	39	4.12	110	987.13	30.4	30.2	-0.2
7/9/05 18:00	106	1.34112	30.6	21.8	17.2	45	2.57	90	986.79	29	29.1	0.1
7/9/05 19:00	77	0.44704	28.9	21.9	18.3	53	2.06	80	986.79	26.8	27.9	1.1
7/9/05 20:00	107	0	26.7	21.6	18.9	62	1.54	100	987.47	25.8	27.2	1.4
7/9/05 21:00	166	0	26.7	21.6	18.9	62	1.54	100	988.15	25.1	26.7	1.6
7/9/05 22:00	201	0	25.6	20.9	18.3	64	2.06	110	988.49	24.9	26.4	1.5
7/9/05 23:00	104	0	24.4	21.1	19.4	74	1.54	120	988.83	24.3	25.6	1.3
7/10/05 0:00	140	0	25	21	18.9	69	3.09	140	988.49	24	25.1	1.1
7/10/05 1:00	60	0.44704	23.3	20.8	19.4	79	2.57	130	988.49	23.5	24.5	1
7/10/05 2:00	149	0.44704	22.8	20.3	18.9	79	2.06	140	988.49	22.7	23.8	1.1
7/10/05 3:00	134	0	23.9	20.7	18.9	74	1.54	110	988.49	22.4	23.4	1
7/10/05 4:00	79	0	22.2	20.1	18.9	82	2.06	110	988.83	21.9	22.9	1
7/10/05 5:00	113	0.44704	22.2	20.1	18.9	82	1.54	130	989.16	21.1	21.9	0.8
7/10/05 6:00	100	0.44704	23.9	21.3	20	79	3.09	130	989.50	22.4	22.2	-0.2
7/10/05 7:00	141	0.89408	26.7	21.9	19.4	64	3.60	150	989.84	24.3	23.7	-0.6
7/10/05 8:00	161	1.34112	28.3	22.7	20	61	2.57	0	989.50	26.6	25.6	-1
7/10/05 9:00	162	1.78816	30	23.2	20	55	4.12	190	989.16	28.3	27.2	-1.1
7/10/05 10:00	149	1.78816	31.1	23.9	20.6	54	2.57	110	989.16	29.7	28.4	-1.2
7/10/05 11:00	147	1.78816	32.2	23.2	18.9	45	4.12	90	988.83	30.5	29.4	-1.1
7/10/05 12:00	142	1.34112	32.8	23	18.3	42	2.57	120	988.15	31.1	30	-1.1
7/10/05 13:00	103	1.78816	32.8	22.7	17.8	41	0.00	0	987.13	31.5	30.5	-1.1
7/10/05 14:00	84	1.34112	33.3	23.5	18.9	43	4.12	40	986.79	31.8	30.9	-0.8
7/10/05 15:00	66	1.78816	33.9	23.6	18.9	41	3.60	50	985.78	31.9	31.2	-0.7
7/10/05 16:00	69	2.2352	33.3	23.5	18.9	43	4.12	80	985.78	31.6	31.1	-0.5
7/10/05 17:00	82	1.78816	32.2	23.5	19.4	47	4.63	100	985.78	30.7	30.6	-0.1
7/10/05 18:00	117	3.12928	28.3	22.3	19.4	59	5.66	120	986.12	29.4	29.5	0.1
7/10/05 19:00	142	1.78816	26.1	22	20	69	3.60	110	985.78	26.3	26.8	0.5
7/10/05 20:00	115	0.89408	25	22.1	20.6	77	2.06	110	986.12	24.4	25.1	0.7
7/10/05 21:00	105	0.44704	25	22.1	20.6	77	0.00	0	986.45	23.8	24.7	1
7/10/05 22:00	102	0.44704	24.4	21.9	20.6	79	0.00	0	986.12	23.5	24.3	0.8
7/10/05 23:00	175	0.44704	23.3	21.5	20.6	85	0.00	0	986.45	22.5	23.7	1.1
7/11/05 0:00	139	0.44704	22.2	21.1	20.6	91	0.00	0	986.12	22.1	23.2	1.2
7/11/05 1:00	143	0.44704	22.2	21.1	20.6	91	2.57	350	986.45	21.3	22.8	1.5
7/11/05 2:00	67	0.44704	21.1	20.4	20	93	2.57	350	986.79	21.3	22.3	0.9
7/11/05 3:00	132	0.44704	21.1	20.4	20	93	1.54	350	986.79	21	21.4	0.4
7/11/05 4:00	134	0	22.2	20.8	20	87	0.00	0	986.79	20.7	21.2	0.6
7/11/05 5:00	87	0.44704	21.7	20.6	20	90	0.00	0	986.79	20.7	21.1	0.5
7/11/05 6:00	105	0.89408	23.3	21.5	20.6	85	2.06	50	987.13	21.8	21.7	-0.1
7/11/05 7:00	56	0.89408	25.6	22.2	20.6	74	0.00	0	987.81	23.7	23	-0.7
7/11/05 8:00	71	0.89408	27.8	23.2	21.1	67	2.06	350	987.47	26.2	25.2	-1
7/11/05 9:00	115	0.89408	28.9	23.9	21.7	65	1.54	0	987.47	28.2	26.9	-1.2
7/11/05 10:00	189	1.34112	30.6	24.4	21.7	59	0.00	0	987.47	29.2	28	-1.2
7/11/05 11:00	167	1.78816	31.1	24.5	21.7	57	2.57	310	987.47	30.1	28.9	-1.2
7/11/05 12:00	140	1.78816	32.2	24.5	21.1	52	3.09	30	986.79	30.5	29.5	-1
7/11/05 13:00	76	1.78816	33.3	24.4	20.6	47	2.06	0	986.12	31.2	30.2	-1.1
7/11/05 14:00	72	2.2352	33.3	24.1	20	46	2.57	0	985.78	31.3	30.5	-0.8
7/11/05 15:00	93	2.2352	32.8	24	20	47	4.12	70	985.78	32	31	-1
7/11/05 16:00	52	2.2352	32.2	24.5	21.1	52	4.63	100	985.78	32	31.2	-0.8
7/11/05 17:00	111	1.78816	30	23.9	21.1	59	4.12	170	986.12	29.6	29.3	-0.3
7/11/05 18:00	200	0.44704	29.4	23.4	20.6	59	2.57	130	986.45	29	28.9	-0.1
7/11/05 19:00	205	0.44704	28.9	23.5	21.1	63	0.00	0	986.79	26.9	28	1.1
7/11/05 20:00	227	0	28.3	23.4	21.1	65	0.00	0	987.47	24.9	26.9	2.1
7/11/05 21:00	127	0	25.6	22.9	21.7	79	0.00	0	987.81	24	26	2
7/11/05 22:00	122	0	25	22.8	21.7	82	0.00	0	988.15	23.3	25.9	2.6
7/11/05 23:00	226	0	24.4	2								

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{TOT} (%)	PCPN (in)	P _{A65} (hPa)
7/8/05 0:00	70	0.3	1.5	1.2	2.4	0.2	77	6.7	0	0	0	982.83
7/8/05 1:00	75.2	0.6	1.6	1	2.2	0.1	79	4.9	0	0	0	982.85
7/8/05 2:00	78.8	0.7	1.8	1.1	2.3	0.2	86.3	4.9	0	0	0	982.65
7/8/05 3:00	80.6	0.7	2.1	1.4	3.3	0.3	106.4	6.2	0	0	0	982.53
7/8/05 4:00	80.2	0.6	1.9	1.3	3	0.2	119.8	6.3	0	0	0	982.82
7/8/05 5:00	86.5	0.2	1.1	0.9	2.1	0.2	70.1	8.7	25.4	0.09	0	983.38
7/8/05 6:00	80.6	0.4	1.1	0.7	2.8	0.3	122.3	14.4	165.2	0.59	0	983.81
7/8/05 7:00	74.2	0.9	1.5	0.6	3.8	0.4	183.8	15.7	354.6	1.28	0	984.3
7/8/05 8:00	72.5	1.5	2.1	0.6	4	0.5	187.4	14.4	551.4	1.99	0	984.85
7/8/05 9:00	68.8	1.4	2	0.6	4	0.5	170.8	18.3	617.3	2.22	0	985.02
7/8/05 10:00	64.6	1.4	2	0.6	3.8	0.6	210.5	16	702.1	2.53	0	985
7/8/05 11:00	59.7	1.1	1.6	0.5	3.8	0.6	212.3	23.7	663.3	2.39	0	984.92
7/8/05 12:00	54.3	0.8	1.2	0.4	3	0.5	143.3	28.4	734.3	2.64	0	984.12
7/8/05 13:00	51.9	1.2	1.7	0.5	4.2	0.6	201.3	21	777.9	2.8	0	983.49
7/8/05 14:00	50.3	1.3	1.9	0.6	4.1	0.6	141.8	18.6	599	2.16	0	982.89
7/8/05 15:00	51.6	1.6	2.2	0.6	4	0.5	155.9	15.1	555	2	0	982.23
7/8/05 16:00	50.8	1.3	2	0.7	3.5	0.5	141.5	14.2	422.3	1.52	0	981.9
7/8/05 17:00	53.9	1.1	1.9	0.8	3.2	0.4	115.2	11.6	261.5	0.94	0	981.85
7/8/05 18:00	56.8	0.8	1.7	1	2.9	0.3	109.6	10.2	169.8	0.61	0	981.76
7/8/05 19:00	63	0.2	1.8	1.6	2.6	0.2	122.9	6.4	29.8	0.11	0	981.72
7/8/05 20:00	65.2	0	1	0.9	1.9	0.1	110.7	6	0	0	0	982.01
7/8/05 21:00	68.2	0.1	1.1	1.1	1.8	0.1	99.6	4.9	0	0	0	982.52
7/8/05 22:00	73.1	0.1	1.3	1.2	2.1	0.2	102.4	5.4	0	0	0	982.66
7/8/05 23:00	73.2	0	1.4	1.4	2.4	0.2	134.9	5.7	0	0	0	982.69
7/9/05 0:00	75.5	0.1	1.5	1.5	2.9	0.2	126.1	5.5	0	0	0	982.68
7/9/05 1:00	74.4	0.7	2.1	1.4	3	0.2	126.2	5.4	0	0	0	982.5
7/9/05 2:00	74.7	1.2	2.5	1.3	3.8	0.4	133.8	8.7	0	0	0	982.47
7/9/05 3:00	77.9	1.6	2.7	1.1	5	0.6	145.3	11.1	0	0	0	982.59
7/9/05 4:00	80.5	1.1	2	0.9	4	0.4	161.5	11.5	0.1	0	0	983.01
7/9/05 5:00	82.9	0.6	1.6	1	2.9	0.3	156.7	10.2	21.3	0.08	0	983.38
7/9/05 6:00	78.6	1.1	1.8	0.7	3.1	0.4	158.9	12.6	148.7	0.54	0	983.67
7/9/05 7:00	71.9	1.7	2.4	0.7	5.6	0.6	158.6	13.6	338.3	1.22	0	984.03
7/9/05 8:00	68.1	2.4	3.2	0.9	5.7	0.7	182.3	13.2	529.3	1.91	0	984.37
7/9/05 9:00	61.8	2	2.6	0.7	5.2	0.6	137.1	19.1	689.8	2.48	0	984.49
7/9/05 10:00	57	1.6	2.3	0.7	4.8	0.7	151	17.8	823.3	2.96	0	984.62
7/9/05 11:00	50.3	1.4	2	0.6	4.3	0.7	126.8	19	901.7	3.25	0	984.45
7/9/05 12:00	47.7	1.4	2.1	0.6	4.9	0.6	121.6	21.8	885	3.19	0	983.94
7/9/05 13:00	44.3	1.8	2.7	0.8	4.9	0.7	109.9	17.6	899.8	3.24	0	983.29
7/9/05 14:00	41.9	2	2.9	0.9	6.1	0.8	84.3	17.1	840.9	3.03	0	982.68
7/9/05 15:00	38.8	1.7	2.6	0.9	5.2	0.7	102.6	16.6	700.4	2.52	0	982.07
7/9/05 16:00	39.8	1.4	2.2	0.8	4.5	0.6	114.1	16	534.2	1.92	0	981.52
7/9/05 17:00	46.3	1.2	2.1	0.8	4	0.5	105.6	13.4	328.7	1.18	0	980.97
7/9/05 18:00	52.8	0.1	1	0.9	2.1	0.2	88.4	11.3	144.1	0.52	0	980.55
7/9/05 19:00	58.4	0	1	1	1.8	0.2	74.9	7.3	19.6	0.07	0	980.35
7/9/05 20:00	62.8	0.1	1.2	1.1	2.6	0.3	87.1	10.1	0	0	0	980.66
7/9/05 21:00	64.7	0.1	1.1	1	2.7	0.2	75.7	8.1	0	0	0	981.42
7/9/05 22:00	66.7	0.5	1.5	1.1	2.7	0.2	76.9	8.9	0	0	0	981.7
7/9/05 23:00	68.9	0.7	2	1.3	3.6	0.3	106.5	9.4	0	0	0	982
7/10/05 0:00	71.3	0.9	2	1.2	3.8	0.4	124.1	9.2	0	0	0	981.98
7/10/05 1:00	74.3	0.9	1.9	1.1	3.3	0.3	128.9	8.8	0	0	0	981.77
7/10/05 2:00	78.3	0.7	1.9	1.2	3	0.2	129.1	7.5	0	0	0	981.62
7/10/05 3:00	80	0.8	2	1.2	3.4	0.3	138	8.4	0	0	0	981.56
7/10/05 4:00	82.2	1	2.2	1.2	3.3	0.3	125.2	7.7	0	0	0	981.74
7/10/05 5:00	87	0.4	1.7	1.3	2.7	0.3	105.2	9.7	22.7	0.08	0	982.2
7/10/05 6:00	84.4	1.1	2	0.9	3.7	0.4	103.8	11.3	151.3	0.54	0	982.59
7/10/05 7:00	77.1	1.9	2.7	0.8	4.7	0.7	134.8	12.8	337.7	1.22	0	982.87
7/10/05 8:00	69.7	1.7	2.3	0.6	4.1	0.6	145.3	15.5	530.1	1.91	0	982.91
7/10/05 9:00	63.4	1.7	2.3	0.6	5	0.6	152.8	20.4	690.2	2.48	0	982.74
7/10/05 10:00	59.2	1.6	2.3	0.7	4.1	0.7	137.2	21.5	827.9	2.98	0	982.71
7/10/05 11:00	55.1	1.7	2.3	0.6	4.8	0.8	123	22.2	893.6	3.22	0	982.45
7/10/05 12:00	52.5	1.5	2	0.6	4.9	0.9	131.7	23.1	863.3	3.11	0	981.87
7/10/05 13:00	50	1.5	2.1	0.7	4.8	0.7	113.7	23.5	875	3.15	0	981.21
7/10/05 14:00	47.3	1.2	1.8	0.6	4.4	0.7	99.1	21.5	723.2	2.6	0	980.58
7/10/05 15:00	48.5	1.4	2	0.7	4.5	0.7	74	19	640.7	2.31	0	980
7/10/05 16:00	49.9	1.4	2.2	0.7	4.1	0.6	64.5	15.8	521.1	1.88	0	979.51
7/10/05 17:00	53.2	1.3	2.1	0.8	4.1	0.6	73.2	14.3	314.1	1.13	0	979.29
7/10/05 18:00	57.5	1.3	2.4	1.1	8.7	0.7	90.1	13.2	145.8	0.53	0	979.27
7/10/05 19:00	65.1	1.4	2.5	1.1	5.7	0.5	122.3	11.6	15.5	0.06	0	979.25
7/10/05 20:00	72.6	1	2.1	1.1	4.1	0.4	103.3	10.4	0	0	0	979.58
7/10/05 21:00	76.3	0.8	2.1	1.3	3.9	0.4	116.9	9.8	0	0	0	979.81
7/10/05 22:00	78.5	1	2.2	1.1	4.2	0.3	124.8	8.1	0	0	0	979.69
7/10/05 23:00	84.1	0.4	1.4	1	2.5	0.2	85.5	7.5	0	0	0	979.81
7/11/05 0:00	86.7	0.5	1.5	1	2.5	0.2	65	5.8	0	0	0	979.61
7/11/05 1:00	90.3	0.5	1.5	1	2.4	0.1	46.6	4.8	0	0	0	979.66
7/11/05 2:00	91.7	1.3	2.3	0.9	4.1	0.4	40.8	6.6	0	0	0	979.96
7/11/05 3:00	92.8	1.3	2.1	0.8	3.2	0.3	45.6	8.5	0	0	0	979.97
7/11/05 4:00	93.4	0.9	1.8	0.9	2.5	0.2	49.3	7.5	0	0	0	979.91
7/11/05 5:00	93.3	1.1	2	0.9	3	0.3	51.6	8.4	15.3	0.05	0	979.95
7/11/05 6:00	91	1.2	1.9	0.7	3.5	0.3	49.5	10.4	127.2	0.46	0	980.32
7/11/05 7:00	84.5	1.1	1.7	0.6	3.3	0.4	54.8	14.3	311.9	1.12	0	980.8
7/11/05 8:00	74.8	0.8	1.3	0.5	2.6	0.4	66.1	18	506.5	1.82	0	981.01
7/11/05 9:00	67.7	1	1.5	0.5	3.1	0.5	49.4	24.1	673.7	2.43	0	981.03
7/11/05 10:00	64.9	1	1.4	0.4	3.5	0.6	152.9	25.7	752.8	2.71	0	981.14
7/11/05 11:00	60.9	1.1	1.6	0.5	3.8	0.5	160	25.9	768.7	2.77	0	981.01
7/11/05 12:00	57.9	1.4	2	0.6	4.5	0.6	97.8	21.4	859.1	3.09	0	980.45
7/11/05 13:00	54.1	1.2	1.8	0.6	5.6	0.7	83.8	22.4	831	2.99	0	979.97
7/11/05 14:00	51.4	1.7	2.3	0.7	4.9	0.7	102.6	19.4	673.6	2.42	0	979.75
7/11/05 15:00	54.1	1.3	2	0.7	4.1	0.6	132.7	19.1	707.8	2.55	0	979.62
7/11/05 16:00	50.4	1.6	2.3	0.7	4.9	0.6	20.3	17.2	584.3	2.1	0	979.47
7/11/05 17:00	61.2	1.5	2.3	0.8	5.2	0.6	73.3	15.7	293.6	1.06	0	979.62
7/11/05 18:00	64.5	0.4	1.2	0.8	2.7	0.3	70	10.4	143.4	0.52	0	979.85
7/11/05 19:00	70.8	0.1	0.9	0.8	1.9	0.1	41.3	6	18.1	0.07	0	980.08
7/11/05 20:00	78.4	0	0.6	0.5	1.4	0.2	130.4	5.9	0	0	0	980.46
7/11/05 21:00	81.8	0.1	0.4	0.4	1.1	0.1	183.3	3.9	0	0	0	981.08
7/11/05 22:00	86.3	0.1	0.2	0.1	0.8	0.1	147.8	1.7	0	0	0	981.39
7/11/05 23:00	89.3	0.1	0.5	0.4	0.8	0.1	227.4	3.7	0	0	0	981.45
7/12/05 0:00	91.8	0	0.8	0.8	1.5	0.1	240.6	7	0	0	0	981.45
7/12/05 1:00	93.6	0.1	0.8	0.8	1.5	0.1	245.1	7.6	0	0	0	981.51
7/12/05 2:00	94.6	0	0.9	0.8	1.9	0.2	250.8	7	0	0	0	981.71
7/12/05 3:00	95.3	0	0.8	0.8	1.4	0.1	243.7	8.3	0	0		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
7/12/05 15:00	0.05772	24.4	0.8	2.2	292.5	8	0.03	0.001	0.007	0.008	22.2	24.44	84	
7/12/05 16:00	0.05884	26.7	4.8	0.9	247.5	3.1	0.037	0	0.004	0.004	24.9	27.78	71	
7/12/05 17:00	0.05804	28.8	1.3	0.9	0	2.7	0.04	0	0.004	0.004	25.5	28.33	68	
7/12/05 18:00	0.05446	28.5	2.1	1.3	225	4	0.035	0	0.003	0.003	23.1	27.78	74	
7/12/05 19:00	0.04459	26.2	2	1.8	292.5	7.2	0.043	0	0.004	0.004	21.7	25.56	76	
7/12/05 20:00	0.05415	24.4	1.1	1.8	225	5.4	0.042	0	0.005	0.005	23.2	24.44	78	
7/12/05 21:00	0.06922	24.6	0.4	0.9	225	3.1	0.031	0	0.008	0.008	16.5	23.33	83	
7/12/05 22:00	0.07071	24.4	0.5	0.4	225	3.1	0.022	0	0.01	0.009	17.8	22.22	87	
7/12/05 23:00	0.06979	24.3	1	1.3	90	4.5	0.018	0	0.008	0.008	17.9	22.22	89	
7/13/05 0:00	0.06546	23.7	1	0.4	202.5	2.2	0.008	0.001	0.008	0.008	18	21.67	91	
7/13/05 1:00	0.0625	23.1	0.8	0.9	225	2.7	0.008	0	0.006	0.006	16.2	21.11	92	
7/13/05 2:00	0.05867	22.6	0.9	1.3	202.5	3.1	0.011	0	0.005	0.005	17.7	21.11	93	
7/13/05 3:00	0.0541	22.3	1	2.2	202.5	4	0.009	0	0.005	0.004	16.2	20.56	93	
7/13/05 4:00	0.06357	22.9	0.7	1.3	225	3.6	0.007	0.003	0.008	0.01	17	21.11	93	
7/13/05 5:00	0.05981	22.8	1.1	0.9	247.5	3.1	0.001	0.007	0.009	0.016	16	20.56	94	
7/13/05 6:00	0.05264	22.6	1.1	1.3	112.5	4	0.012	0.003	0.012	0.015	22.4	22.22	89	
7/13/05 7:00	0.04634	23.7	1.7	0.9	247.5	4.9	0.032	0	0.004	0.005	19.4	25.00	74	
7/13/05 8:00	0.03989	26.3	3.7	0.4	67.5	2.7	0.038	0	0.004	0.004	19.9	27.22	68	
7/13/05 9:00	0.03195	30.2	4.6	0.4	45	2.7	0.052	0	0.003	0.003	23.4	28.89	60	
7/13/05 10:00	0.04862	33.8	3.2	0.4	0	2.2	0.059	0	0.003	0.003	20	30.00	54	
7/13/05 11:00	0.06144	38.2	3.7	0.9	292.5	3.1	0.06	0	0.001	0.001	23.3	31.11	50	
7/13/05 12:00	0.06317	40.5	2.9	0.9	315	3.6	0.06	0	0.002	0.001	21.9	31.67	47	
7/13/05 13:00	0.05943	39.6	4	0.9	292.5	3.6	0.057	0	0.002	0.001	24.4	31.67	51	
7/13/05 14:00	0.05981	38.8	3.5	1.3	225	5.8	0.056	0	0.002	0.002	24.5	32.22	48	
7/13/05 15:00	0.05833	37.7	3.9	1.3	225	4.5	0.055	0	0.002	0.002	29	32.78	47	
7/13/05 16:00	0.05714	35.2	1.9	1.3	247.5	4.5	0.053	0	0.003	0.003	27.2	32.78	43	
7/13/05 17:00	0.057	33.1	1.5	1.3	202.5	4.9	0.052	0	0.002	0.002	28.2	32.22	45	
7/13/05 18:00	0.05579	31.8	1.1	0.9	247.5	3.6	0.049	0	0.002	0.002	25.4	31.67	48	
7/13/05 19:00	0.05522	30.2	2.3	0.4	202.5	2.7	0.045	0	0.006	0.007	25.5	30.00	55	
7/13/05 20:00	0.05196	27.8	2.2	1.3	157.5	6.7	0.042	0.001	0.011	0.012	24.4	27.22	61	
7/13/05 21:00	0.05754	26.2	1	4.5	22.5	9.4	0.034	0	0.012	0.012	24.1	25.00	70	
7/13/05 22:00	0.05795	26.1	0.6	0.9	270	4	0.024	0	0.014	0.014	25.3	24.44	74	
7/13/05 23:00	0.05678	26.4	0.9	0.9	247.5	2.7	0.026	0	0.01	0.009	24.5	24.44	75	
7/14/05 0:00	0.05947	26.1	1	1.3	225	4.9	0.023	0	0.008	0.007	26.9	24.44	76	
7/14/05 1:00	0.05748	25.1	0.8	0.9	247.5	2.7	0.008	0.001	0.013	0.014	26.5	23.33	81	
7/14/05 2:00	0.05579	24.5	0.7	0.4	270	2.7	0.015	0	0.007	0.006	27.4	22.22	86	
7/14/05 3:00	0.05273	24.1	0.7	0.4	225	2.2	0.011	0	0.006	0.005	25.7	21.67	90	
7/14/05 4:00	0.0565	24.3	0.3	0.9	270	2.7	0.005	0.004	0.008	0.012	24.5	21.11	91	
7/14/05 5:00	0.07021	24.4	0.3	0.9	270	2.7	0.016	0.016	0.011	0.027	24.7	20.56	92	
7/14/05 6:00	0.07053	24.6	0.5	1.3	247.5	3.6	0.008	0.02	0.011	0.051	29.4	22.22	87	
7/14/05 7:00	0.06216	25.5	1.7	0.4	292.5	1.8	0.008	0	0.005	0.005	27.7	25.56	72	
7/14/05 8:00	0.03756	27.7	3.5	0.4	0	2.2	0.043	0.001	0.005	0.006	30.8	27.78	63	
7/14/05 9:00	0.03924	31.2	2.7	0.4	67.5	1.8	0.055	0	0.005	0.005	32.3	28.89	57	
7/14/05 10:00	0.05993	33.3	2.9	1.3	22.5	4	0.064	0.001	0.006	0.007	33.4	30.56	52	
7/14/05 11:00	0.07536	36.2	3	1.3	67.5	4.5	0.074	0	0.006	0.006	35.3	31.67	44	
7/14/05 12:00	0.07871	38.2	2.1	1.8	225	5.8	0.071	0.001	0.006	0.006	31.8	32.22	41	
7/14/05 13:00	0.0801	38.9	3.3	1.8	225	6.3	0.076	0	0.005	0.005	34.4	32.22	43	
7/14/05 14:00	0.08595	34.7	4.9	2.2	22.5	6.3	0.074	0.001	0.005	0.006	34.1	32.78	41	
7/14/05 15:00	0.08386	33.2	3.7	2.2	45	5.8	0.07	0	0.007	0.007	33.1	33.33	40	
7/14/05 16:00	0.08177	33	2	2.7	22.5	7.6	0.007	0.001	0.007	0.008	36.3	32.78	41	
7/14/05 17:00	0.07975	32.2	2.2	3.1	22.5	8	0.062	0.001	0.007	0.008	36.6	32.78	42	
7/14/05 18:00	0.07117	31.2	1.5	3.1	22.5	9.4	0.056	0	0.008	0.008	32.8	32.22	43	
7/14/05 19:00	0.0662	29.7	1.6	4	22.5	8.5	0.048	0	0.01	0.01	32.8	30.56	48	
7/14/05 20:00	0.06263	28.3	1.2	2.7	22.5	6.3	0.031	0.001	0.02	0.021	32.2	28.33	60	
7/14/05 21:00	0.06039	27.5	0.8	1.8	22.5	4.9	0.037	0	0.017	0	32.2	26.67	69	
7/14/05 22:00	0.05801	26.7	1	0.9	0	3.1	0.02	0.002	0.017	0.019	32.3	25.56	76	
7/14/05 23:00	0.05167	26.1	0.6	0.9	247.5	2.7	0.01	0	0.019	0.019	34.5	24.44	83	
7/15/05 0:00	0.04443	25.5	1	0.4	247.5	1.8	0.009	0	0.015	0.015	34	23.89	85	
7/15/05 1:00	0.04414	25.3	0.2	0.4	270	2.2	0.021	0	0.007	0.007	32	23.89	83	
7/15/05 2:00	0.04279	25.1	0.5	0.4	0	2.7	0.01	0	0.008	0.008	34.5	22.78	89	
7/15/05 3:00	0.04958	24.6	0.7	0.9	0	3.1	0.007	0	0.008	0.008	32.5	22.78	90	
7/15/05 4:00	0.04067	24.4	0.4	0.9	0	2.7	0.005	0.002	0.008	0.01	34.9	22.78	90	
7/15/05 5:00	0.03664	24.4	1	0.9	247.5	2.7	0.004	0.004	0.01	0.014	34.7	22.22	91	
7/15/05 6:00	0.02929	24.3	1	0.9	225	3.1	0.013	0.004	0.008	0.012	35.5	23.89	86	
7/15/05 7:00	0.02356	24.7	2	1.3	0	4.5	0.017	0.003	0.006	0.009	35.3	25.56	80	
7/15/05 8:00	0.02472	27	2.7	1.3	0	5.4	0.027	0.003	0.008	0.01	36.1	27.78	71	
7/15/05 9:00	0.02637	30.1	3	1.3	22.5	4	0.043	0.001	0.007	0.008	38.2	30.00	63	
7/15/05 10:00	0.04565				0.054	0.001	0.005	0.006	0.006	0.006	35.9	31.67	55	
7/15/05 11:00	0.06134				0.061	0	0.004	0.004	0.004	0.004	35.6	32.78	47	
7/15/05 12:00	0.0691				0.063	0	0.004	0.005	0.005	0.005	31	33.33	42	
7/15/05 13:00	0.0729				0.063	0	0.004	0.004	0.004	0.004	36.7	33.89	40	
7/15/05 14:00	0.06678				0.061	0.001	0.005	0.005	0.006	0.006	34.3	34.44	38	
7/15/05 15:00	0.06618				0.06	0.001	0.009	0.009	0.01	0.01	32.1	34.44	38	
7/15/05 16:00	0.06677				0.055	0.001	0.009	0.011	0.009	0.011	35.9	33.89	41	
7/15/05 17:00	0.0659				0.06	0	0.005	0.005	0.005	0.005	33.4	31.11	51	
7/15/05 18:00	0.06887				0.041	0	0.008	0.007	0.007	0.007	34.8	24.44	87	
7/15/05 19:00	0.06783				0.022	0	0.018	0.019	0.019	0.019	31.3	25.00	87	
7/15/05 20:00	0.05342				0.012	0	0.022	0.022	0.022	0.022	29.5	24.44	90	
7/15/05 21:00	0.04809				0.004	0.003	0.025	0.027	0.027	0.027	31.5	24.44	92	
7/15/05 22:00	0.03533				0	0.016	0.02	0.035	0.035	0.035	28.4	23.89	92	
7/15/05 23:00	0.04764				0.004	0.004	0.019	0.023	0.023	0.023	29.2	23.33	93	
7/16/05 0:00	0.03916				0.011	0	0.011	0.011	0.011	0.011	32.9	23.33	91	
7/16/05 1:00	0.03964				0	0.008	0.014	0.021	0.021	0.021	31.4	22.78	93	
7/16/05 2:00	0.03753				0	0.013	0.012	0.026	0.026	0.026	30.8	22.22	94	
7/16/05 3:00	0.02767				0	0.003	0.013	0.017	0.017	0.017	28.9	22.78	94	
7/16/05 4:00	0.0319				0	0.006	0.009	0.015	0.015	0.015	29	22.22	94	
7/16/05 5:00	0.03475				0	0.009	0.008	0.017	0.017	0.017	26.9	21.67	95	
7/16/05 6:00	0.02466				0.003	0.01	0.013	0.022	0.022	0.022	29.9	22.78	94	
7/16/05 7:00														

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/12/05 15:00	239	0.44704	27.8	22.9	20.6	65	0.00	0	989.16	25	24.7	-0.3
7/12/05 16:00	214	0.44704	28.3	23.4	21.1	65	2.57	310	989.84	28.9	28.4	-0.5
7/12/05 17:00	221	1.34112	28.9	24.6	22.8	70	4.12	320	989.84	27.6	27.4	-0.2
7/12/05 18:00	288	1.78816	27.8	23.9	22.2	72	3.09	320	990.18	25.4	25.6	0.2
7/12/05 19:00	264	1.34112	25.6	22.6	21.1	76	2.57	300	990.18	23.6	24	0.4
7/12/05 20:00	268	0.89408	24.4	21.9	20.6	79	2.06	320	989.84	22.3	23	0.7
7/12/05 21:00	236	0.44704	24.4	21.5	20	77	2.06	260	990.52	21.4	22.4	1
7/12/05 22:00	233	0.44704	22.8	21	20	84	2.06	340	990.52	21.3	22.3	1
7/12/05 23:00	199	0.44704	22.2	21.1	20.6	91	2.06	320	990.18	21.3	21.9	0.7
7/13/05 0:00	128	0.44704	21.7	21	20.6	94	2.57	340	989.84	21.4	21.9	0.5
7/13/05 1:00	188	0.44704	22.2	20.8	20	87	3.09	340	989.84	21.7	22.2	0.5
7/13/05 2:00	161	0	21.7	20.6	20	90	1.54	340	990.18	21.6	22.1	0.5
7/13/05 3:00	183	0.44704	22.2	20.8	20	87	0.00	0	989.84	21.4	22.1	0.8
7/13/05 4:00	170	0.44704	21.7	20.6	20	90	2.57	320	990.52	21.5	22.1	0.6
7/13/05 5:00	221	0.44704	22.2	20.8	20	87	0.00	0	990.52	20.7	22	1.3
7/13/05 6:00	273	0.44704	23.9	21.3	20	79	2.57	310	990.52	22	21.8	-0.2
7/13/05 7:00	300	0.89408	25.6	21.9	20	71	0.00	0	990.86	24.2	23.6	-0.6
7/13/05 8:00	136	0.89408	27.2	22.7	20.6	67	1.54	320	990.52	26.9	26.1	-0.9
7/13/05 9:00	195	0.44704	29.4	22.4	18.9	53	1.54	990.18	990.18	28.7	27.6	-1.1
7/13/05 10:00	229	0.89408	31.7	24	20.6	52	1.54	989.84	989.84	29.8	28.7	-1.1
7/13/05 11:00	168	1.34112	31.1	23.9	20.6	54	2.57	290	989.84	30.6	29.7	-0.9
7/13/05 12:00	148	1.34112	32.8	24	20	47	3.60	340	989.16	31.2	30.3	-0.8
7/13/05 13:00	237	1.78816	32.2	24.2	20.6	50	3.09	280	988.49	31.1	30.4	-0.6
7/13/05 14:00	235	2.2352	33.3	24.7	21.1	49	4.12	330	987.47	31.3	30.7	-0.6
7/13/05 15:00	213	2.2352	33.3	23.8	19.4	44	4.12	10	986.79	32.1	31.2	-0.9
7/13/05 16:00	108	2.2352	33.3	23.5	18.9	43	3.60	310	986.45	31.5	31	-0.5
7/13/05 17:00	199	1.78816	32.2	23.8	20	49	3.60	320	986.12	31.4	30.9	-0.5
7/13/05 18:00	218	1.78816	31.1	23.9	20.6	54	3.09	330	986.12	29.5	29.5	0
7/13/05 19:00	87	2.2352	27.8	22.2	19.4	60	3.60	360	987.13	26	26.7	0.7
7/13/05 20:00	74	1.34112	27.8	21.9	18.9	58	2.06	70	987.13	25	26.1	1.1
7/13/05 21:00	188	0.44704	26.7	21.9	19.4	64	1.54	280	987.13	24.4	26.5	2.1
7/13/05 22:00	115	0.44704	25	21.3	19.4	71	1.54	350	987.47	23.8	26.1	2.3
7/13/05 23:00	153	0.44704	25	21.3	19.4	71	2.57	320	987.47	23.8	25.6	1.8
7/14/05 0:00	175	0.44704	24.4	21.5	20	77	2.57	350	987.13	23.8	25.7	1.9
7/14/05 1:00	84	0.44704	23.9	21.3	20	79	2.06	360	986.79	23.8	25.4	1.5
7/14/05 2:00	125	0	23.3	21.5	20.6	85	1.54	320	986.45	23.1	24.8	1.7
7/14/05 3:00	206	0.44704	22.2	20.8	20	87	1.54	300	986.79	22	24.3	2.3
7/14/05 4:00	135	0	21.7	20.6	20	90	0.00	0	987.13	21.1	24.2	3.1
7/14/05 5:00	175	0	22.2	20.8	20	87	1.54	350	987.47	21	23.5	2.5
7/14/05 6:00	223	0.44704	23.3	21.5	20.6	85	2.06	350	987.47	22.4	22.9	0.5
7/14/05 7:00	208	0.89408	26.1	22.4	20.6	72	1.54	350	987.81	26.3	25.7	-0.6
7/14/05 8:00	91	0.89408	28.3	23.1	20.6	63	2.06	987.81	987.81	27.7	26.7	-0.9
7/14/05 9:00	64	1.34112	30.6	23.4	20	53	3.09	90	987.47	28.8	27.7	-1.1
7/14/05 10:00	67	2.2352	31.7	22.7	18.3	45	2.06	987.13	987.13	29.8	28.7	-1.1
7/14/05 11:00	77	2.2352	32.8	23.3	18.9	44	1.54	50	986.45	30.7	29.6	-1.1
7/14/05 12:00	65	2.2352	32.8	23	18.3	42	2.57	70	986.12	31.2	30.2	-1.1
7/14/05 13:00	93	1.78816	33.3	23.1	18.3	41	2.57	986.44	986.44	31.8	30.8	-1
7/14/05 14:00	84	2.2352	33.9	23.6	18.9	41	4.63	20	984.76	32	31.1	-0.9
7/14/05 15:00	66	2.2352	32.8	23.3	18.9	44	4.12	30	984.42	32	31.2	-0.8
7/14/05 16:00	46	3.12928	33.9	23.3	18.3	40	4.12	60	984.08	31.7	31.1	-0.6
7/14/05 17:00	44	2.68224	32.8	23.3	18.9	44	5.66	50	983.75	30.9	30.6	-0.3
7/14/05 18:00	42	2.2352	31.7	23	18.9	47	2.57	80	984.42	29.6	29.7	0.2
7/14/05 19:00	34	1.78816	30	22.8	19.4	53	2.57	40	984.76	27.6	28.6	1
7/14/05 20:00	67	0.89408	28.3	22.7	20	61	1.54	986.44	986.44	26.8	28.1	1.2
7/14/05 21:00	81	0.44704	28.3	22.7	20	61	2.57	40	985.44	26.4	27.5	1.1
7/14/05 22:00	153	0.44704	27.8	22.5	20	63	1.54	50	986.12	25.7	26.7	1
7/14/05 23:00	227	0	25.6	22.6	21.1	76	1.54	360	986.12	24.7	26.5	1.9
7/15/05 0:00	121	0.44704	24.4	22.2	21.1	82	1.54	330	986.12	24.9	26.6	1.7
7/15/05 1:00	127	0.44704	24.4	22.6	21.7	85	0.00	0	985.78	24.9	26.1	1.2
7/15/05 2:00	205	0	23.9	22	21.1	84	2.06	320	986.12	24.3	25	0.8
7/15/05 3:00	151	0	22.8	21.7	21.1	90	2.06	340	986.45	23.6	24.2	0.7
7/15/05 4:00	112	0.44704	22.8	21.7	21.1	90	1.54	350	986.79	23.2	23.7	0.6
7/15/05 5:00	103	0.44704	23.3	22.2	21.7	91	0.00	0	987.47	23	23.4	0.4
7/15/05 6:00	87	0.89408	23.9	22.7	22.2	90	2.57	350	987.81	24.2	24.1	0
7/15/05 7:00	58	1.34112	27.2	23.7	22.2	74	2.06	10	988.15	25.9	25.3	-0.6
7/15/05 8:00	59	1.34112	29.4	24.4	22.2	65	2.57	80	988.15	27.6	26.7	-1
7/15/05 9:00	69	1.78816	31.7	24.3	21.1	53	4.12	90	988.15	29.3	28.2	-1.1
7/15/05 10:00	92	1.78816	32.2	23.8	20	49	2.57	987.81	987.81	30.6	29.6	-1
7/15/05 11:00	83	2.2352	34.4	23.4	18.3	38	5.14	100	987.47	31.3	30.5	-0.8
7/15/05 12:00	82	2.2352	35	23.6	18.3	37	5.14	80	986.79	31.5	30.9	-0.6
7/15/05 13:00	78	2.2352	35	23.9	18.9	39	5.14	60	986.12	32.4	31.8	-0.6
7/15/05 14:00	58	3.12928	35.6	23.8	18.3	36	4.12	50	985.44	33.2	32.5	-0.8
7/15/05 15:00	67	2.2352	35	23.9	18.9	39	4.63	70	985.78	33.2	32.5	-0.7
7/15/05 16:00	65	2.2352	28.3	22.3	19.4	59	5.66	120	985.78	32.5	32.2	-0.4
7/15/05 17:00	141	2.68224	27.2	23.4	21.7	72	3.60	180	986.45	32.2	31.9	-0.2
7/15/05 18:00	195	0.89408	27.8	23.6	21.7	69	4.12	190	986.45	30.8	30.7	-0.1
7/15/05 19:00	236	0.44704	27.8	23.9	22.2	72	3.09	180	986.79	27.8	28.2	0.5
7/15/05 20:00	259	0	27.2	23.4	21.7	72	3.09	170	987.13	25.6	26.7	1.1
7/15/05 21:00	203	0	27.2	22.7	20.6	67	0.00	0	987.81	24.6	25.8	1.2
7/15/05 22:00	143	0	26.1	22.7	21.1	74	1.54	987.81	987.81	23.6	24.9	1.4
7/15/05 23:00	275	0.44704	24.4	23.3	22.8	91	1.54	310	988.49	23.6	24.9	1.3
7/16/05 0:00	261	0.44704	25	23.1	22.2	85	0.00	0	988.49	23.7	24.6	0.9
7/16/05 1:00	178	0	23.3	22.2	21.7	91	3.09	140	988.49	22.9	23.6	0.8
7/16/05 2:00	236	0.44704	25	22.8	21.7	82	2.57	180	988.49	22.2	23.3	1.1
7/16/05 3:00	194	0.44704	23.3	22.2	21.7	91	1.54	160	988.49	21.9	22.9	0.9
7/16/05 4:00	156	0	22.8	22.1	21.7	94	2.06	130	988.83	21.3	22.5	1.2
7/16/05 5:00	245	0.44704	23.9	22.4	21.7	88	2.57	170	989.16	21.5	22.5	0.9
7/16/05 6:00	200	0	25	22.8	21.7	82	0.00	0	989.50	23.3	23.4	0.1
7/16/05 7:00	205	0.44704	26.1	23.1	21.7	77	2.57	180	989.84	25.3	24.7	-0.5
7/16/05 8:00	205	0.44704	26.3	23.1	20.6	63	1.54	160	989.84	27.5	26.4	-1
7/16/05 9:00	166	0.89408	29.4	23.4	20.6	59	2.57	180	989.84	29.6	28.5	-1.1
7/16/05 10:00	196	1.34112	30.6	23.7	20.6	55	2.06	220	989.50	30.5	29.3	-1.3
7/16/05 11:00	167	1.34112	32.8	24.6	21.1	50	4.63	180	989.16	31.3	30.1	-1.2
7/16/05 12:00	197	0.89408	32.8	24	20	47	1.54	988.49	988.49	32.3	31.1	

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{SEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
7/12/05 15:00	86.4	0.6	1.1	0.5	3.1	0.3	211.5	17.8	446.8	1.61	0	982.82
7/12/05 16:00	68.3	0.9	1.4	0.5	2.7	0.3	164.3	15.6	512.5	1.85	0	983.16
7/12/05 17:00	72.2	1.7	2.8	1.1	6.7	0.7	274.3	14.9	216.1	0.78	0	983.45
7/12/05 18:00	76.1	1.3	2.0	0.7	4.2	0.6	264.1	15.7	60.3	0.22	0	983.5
7/12/05 19:00	83.3	0.7	1.5	0.8	3.3	0.4	249	14.1	10.7	0.04	0	983.35
7/12/05 20:00	87.5	0.3	1.1	0.9	2.7	0.2	221.8	10	0	0	0	983.06
7/12/05 21:00	91.5	0.2	1	0.9	2	0.2	233.8	8.2	0	0	0	983.43
7/12/05 22:00	91	0.2	1.1	0.9	2.6	0.3	247.8	12.7	0	0	0	983.72
7/12/05 23:00	90.8	0.5	1.5	1.1	2.7	0.3	263.2	11	0	0	0	983.58
7/13/05 0:00	91.3	0.8	1.9	1.1	4.4	0.5	295.2	13.5	0	0	0	983.26
7/13/05 1:00	87.8	0.9	2	1	4.9	0.6	300.5	14.7	0	0	0	983.14
7/13/05 2:00	85.2	1.3	2.4	1.1	5.3	0.6	303.9	14.5	0	0	0	983.04
7/13/05 3:00	86	0.7	1.9	1.2	3.8	0.4	312.4	11.4	0	0	0	983.01
7/13/05 4:00	86	0.8	1.9	1.1	4.5	0.5	311.6	14.9	0	0	0	983.34
7/13/05 5:00	89.3	0.2	0.9	0.7	2.2	0.3	161.9	12.3	18.3	0.07	0	983.61
7/13/05 6:00	88.2	0.5	1	0.5	2.1	0.2	236.3	13.3	136.7	0.49	0	983.75
7/13/05 7:00	82.9	0.7	1.1	0.5	2.7	0.3	246.8	17.3	319.8	1.15	0	983.87
7/13/05 8:00	74.6	0.4	0.7	0.4	1.7	0.3	188.3	22.6	510.3	1.84	0	983.85
7/13/05 9:00	64.8	0.5	0.9	0.3	2.3	0.4	238.5	20.2	686.6	2.47	0	983.54
7/13/05 10:00	62.2	1.1	1.5	0.4	3.7	0.5	208.1	23.6	828.1	2.98	0	983.39
7/13/05 11:00	57.3	1	1.4	0.4	3.3	0.5	241.8	25.7	901.8	3.25	0	983.2
7/13/05 12:00	56.2	1.2	1.7	0.6	4.1	0.7	235.9	24.2	900.9	3.24	0	982.98
7/13/05 13:00	55.7	1	1.5	0.5	4	0.6	96.6	25.4	565.3	2.03	0	982.35
7/13/05 14:00	54.9	1.3	2	0.7	4.1	0.5	70.6	18.6	576.5	2.08	0	981.53
7/13/05 15:00	50.9	1.4	2	0.7	3.5	0.5	74.6	16.5	692.3	2.49	0	980.84
7/13/05 16:00	53	1	1.7	0.6	3.8	0.5	50.8	15.9	437.3	1.57	0	980.27
7/13/05 17:00	53.5	0.8	1.4	0.6	2.9	0.4	148.8	13.4	326.2	1.17	0	979.88
7/13/05 18:00	58.9	1.4	2.3	0.9	7	0.6	214.4	12.1	148.9	0.54	0	979.95
7/13/05 19:00	63.2	1.2	2.1	0.9	5	0.4	25.9	10.9	11.9	0.04	0	980.36
7/13/05 20:00	69	0.6	1.5	1	2.8	0.2	60.4	7.8	0	0	0	980.51
7/13/05 21:00	71.8	0.3	1.2	0.9	1.7	0.1	43.4	5.7	0	0	0	980.71
7/13/05 22:00	74.3	0.2	1	0.8	2.2	0.2	183.8	8.6	0	0	0	980.78
7/13/05 23:00	72.3	0.5	1.1	1.1	2.5	0.2	27.6	5.8	0	0	0	980.82
7/14/05 0:00	73.6	0.4	1.5	1	2.4	0.2	31.8	6.1	0	0	0	980.68
7/14/05 1:00	72.5	0.9	1.8	0.9	3	0.3	22.2	6.9	0	0	0	980.42
7/14/05 2:00	75.3	0.5	1.5	1.1	2.7	0.2	29.8	7.2	0	0	0	979.99
7/14/05 3:00	81	0.2	0.9	0.8	2.2	0.1	47.7	6.7	0	0	0	979.97
7/14/05 4:00	86.8	0.7	1.4	0.7	2.5	0.2	35.5	5.2	0	0	0	980.28
7/14/05 5:00	87	0.3	0.9	0.7	1.9	0.2	28.2	6.6	8.4	0.03	0	980.57
7/14/05 6:00	88.4	0.1	0.6	0.5	1.6	0.2	275.6	15.3	137.1	0.49	0	980.87
7/14/05 7:00	74.3	0.3	0.8	0.5	2.4	0.3	221.6	14.5	333.1	1.2	0	981.03
7/14/05 8:00	68.5	0.8	1.2	0.4	2.4	0.4	106.5	16.7	528.1	1.9	0	981.38
7/14/05 9:00	59.8	1	1.6	0.6	3.2	0.5	51.8	19.4	677.3	2.44	0	981.28
7/14/05 10:00	56.7	1	1.6	0.6	3.3	0.6	61.4	20.3	801.7	2.89	0	980.93
7/14/05 11:00	52.8	1.3	1.9	0.6	4.9	0.7	77	20	894	3.22	0	980.46
7/14/05 12:00	51.3	1.7	2.4	0.7	5.3	0.7	106.8	18.1	904.5	3.26	0	979.93
7/14/05 13:00	48.9	1.6	2.3	0.7	5.5	0.9	59.2	21.9	926.8	3.34	0	979.5
7/14/05 14:00	48.5	1.8	2.6	0.8	5.6	0.9	61.6	19.6	828.3	2.98	0	978.93
7/14/05 15:00	49.5	2.1	3.1	0.9	6.1	0.8	15.8	15.8	692.6	2.49	0	978.32
7/14/05 16:00	50.4	2	2.8	0.8	5.1	0.7	23.3	15.6	531.1	1.91	0	978.05
7/14/05 17:00	52.9	1.6	2.4	0.8	4.6	0.5	22	13.1	316.2	1.14	0	977.89
7/14/05 18:00	56.5	1	1.9	0.9	3.9	0.4	16.9	12	132.3	0.48	0	977.9
7/14/05 19:00	65.9	0.6	1.7	1.1	2.8	0.3	64.4	8.6	15.3	0.05	0	978.34
7/14/05 20:00	67.1	0.5	1.4	0.9	2.9	0.3	16.3	11.2	0	0	0	978.76
7/14/05 21:00	68.6	0.6	1.6	0.9	2.9	0.3	28.5	10.2	0	0	0	979.1
7/14/05 22:00	73	0.4	1.3	0.9	2.2	0.2	30.7	8.9	0	0	0	979.56
7/14/05 23:00	78.5	0.2	1	0.8	2	0.2	51.5	7.5	0	0	0	979.69
7/15/05 0:00	77.4	0.5	1.2	0.8	2.2	0.2	24.8	10.2	0	0	0	979.6
7/15/05 1:00	76.8	0.9	1.8	1	3.6	0.3	22.8	9.2	0	0	0	979.37
7/15/05 2:00	80.9	1.4	2.4	1	3.8	0.4	27.8	8.6	0	0	0	979.39
7/15/05 3:00	85.3	1.4	2.2	0.9	3.4	0.3	37.5	8.4	0	0	0	979.67
7/15/05 4:00	87.8	1.5	2.4	0.9	3.7	0.4	40.6	8.9	0	0	0	980.05
7/15/05 5:00	89	1.5	2.3	0.9	3.6	0.4	34.5	8.8	15.9	0.06	0	980.77
7/15/05 6:00	85.8	1.5	2.2	0.7	3.7	0.4	38	10	121.5	0.44	0	981.12
7/15/05 7:00	79.9	1.4	2	0.6	3.5	0.4	29.9	11.9	291.2	1.05	0	981.54
7/15/05 8:00	74	1.5	2.1	0.6	4	0.5	41.8	14.7	480.4	1.73	0	981.74
7/15/05 9:00	67.7	1.6	2.2	0.6	4.4	0.6	46	17.3	658.2	2.37	0	981.86
7/15/05 10:00	60.8	2	2.8	0.8	5.2	0.7	39.3	17.9	767.3	2.76	0	981.73
7/15/05 11:00	55.8	2	2.8	0.9	6.4	0.8	55.9	15.8	701.3	2.52	0	981.43
7/15/05 12:00	54.3	2.1	3	0.8	5.7	0.7	49.8	17.2	639.8	2.3	0	980.81
7/15/05 13:00	48.7	2.1	3	0.9	5.5	0.8	58.4	16.9	735	2.65	0	980.29
7/15/05 14:00	46.2	2.1	2.9	0.8	6.1	0.8	35.6	17	807.4	2.91	0	979.98
7/15/05 15:00	45.6	2.3	3.1	0.9	6.8	0.8	35.5	16.2	709.6	2.55	0	979.77
7/15/05 16:00	48.3	2	2.7	0.7	5.3	0.6	44.5	14.9	498.3	1.79	0	979.31
7/15/05 17:00	50.4	1.4	2.1	0.7	4.9	0.6	47.4	17.1	355.1	1.28	0	979.2
7/15/05 18:00	55	1.2	2	0.8	5.7	0.5	120.6	15.4	204.6	0.74	0	979.79
7/15/05 19:00	65.2	0.7	1.6	0.9	2.8	0.3	176.3	11.4	32.3	0.12	0	980.08
7/15/05 20:00	73.8	0.6	1.6	1	2.5	0.2	180.8	9.3	0	0	0	980.32
7/15/05 21:00	78.3	0.5	1.6	1.1	2.5	0.2	195.3	8.1	0	0	0	981
7/15/05 22:00	85.3	0.6	1.7	1.1	2.6	0.2	210.9	5	0	0	0	981.18
7/15/05 23:00	84.2	0.8	1.8	1	2.4	0.1	221.2	4.8	0	0	0	981.47
7/16/05 0:00	86.4	0.9	1.8	0.9	3.4	0.3	233.1	9.6	0	0	0	981.58
7/16/05 1:00	90	0.8	1.6	0.9	2.5	0.2	230.4	9.4	0	0	0	981.49
7/16/05 2:00	92.3	0.4	1.3	0.9	2.2	0.2	219.6	9.2	0	0	0	981.42
7/16/05 3:00	93.1	0	0.7	0.7	1.9	0.2	165.2	8.6	0	0	0	981.59
7/16/05 4:00	94.6	0.1	0.7	0.7	1.7	0.1	173.4	9.2	0	0	0	981.76
7/16/05 5:00	95	0.1	0.9	0.8	1.7	0.2	208.4	8.8	17.3	0.06	0	982.15
7/16/05 6:00	92.1	0.1	0.7	0.5	2.6	0.2	176.3	9.9	128	0.46	0	982.37
7/16/05 7:00	79.3	0.9	1.5	0.5	2.9	0.4	188.8	12.4	310.8	1.12	0	982.58
7/16/05 8:00	70.6	0.8	1.3	0.5	2.5	0.3	156.9	16.5	503.2	1.81	0	982.9
7/16/05 9:00	62.8	0.9	1.3	0.4	3.9	0.5	159.6	21.8	676.8	2.44	0	982.99
7/16/05 10:00	58.6	1.4	2	0.5	4.6	0.6	182.6	18.9	801	2.88	0	983.03
7/16/05 11:00	54.7	1.5	2.1	0.5	6.4	0.7	158.8	21	890.3	3.2	0	982.84
7/16/05 12:00	50	1.2	1.6	0.4	4.3	0.7	158.3	34.5	903.9	3.25	0	982.32
7/16/05 13:00	47.4	1.3	1.8	0.5	5.2	0.7	140.5	24.2	823.2	2.96	0	981.63
7/16/05 14:00	43.3	1.5	2	0.5	5.5	0.7	165.8	26.4	867.3	3.12	0	980.88
7/16/05 15:00	39.3	1.4	2.1	0.6	4.9	0.6	163.6	19.9	762.8	2.75	0	980.22
7/16/05 16:00	44.6	2.2	3.3	1.1	6.6	0.7	191.6	13.1	566.1	2.04	0	980.02
7/16/05 17:00	51	2	3.1	1.1	5.1	0.6	178.3	10.1	316.1	1.14	0	979.86
7/16/05												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK		1127										
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)
7/17/05 6:00	0.03009						0.024	0	0.005	0.004	18.3	24.44	81
7/17/05 7:00	0.02598						0.026	0.001	0.005	0.006	18.6	26.67	74
7/17/05 8:00	0.02576						0.028	0.001	0.005	0.006	14.2	28.89	67
7/17/05 9:00	0.02514						0.033	0.001	0.005	0.006	15.8	30.00	62
7/17/05 10:00	0.03207						0.037	0	0.004	0.004	14.3	31.67	57
7/17/05 11:00	0.0391						0.043	0	0.003	0.002	15.6	32.22	53
7/17/05 12:00	0.04105						0.045	0	0.003	0.003	14.6	32.78	50
7/17/05 13:00	0.04443						0.047	0	0.003	0.002	20.6	33.89	47
7/17/05 14:00	0.04923						0.048	0	0.002	0.002	17.1	33.89	45
7/17/05 15:00	0.0496						0.048	0	0.001	0.001	15.3	34.44	44
7/17/05 16:00	0.05107						0.049	0	0.001	0.001	14.6	34.44	43
7/17/05 17:00	0.05346						0.049	0	0.002	0.001	18.3	34.44	44
7/17/05 18:00	0.05195						0.043	0	0.004	0.004	19.4	32.22	54
7/17/05 19:00	0.04577						0.04	0	0.005	0.004	17.5	30.00	62
7/17/05 20:00	0.04272						0.038	0	0.006	0.006	15.9	28.89	66
7/17/05 21:00	0.04413						0.034	0	0.005	0.004	13.2	28.33	66
7/17/05 22:00	0.02718						0.024	0	0.009	0.008	13.1	27.78	69
7/17/05 23:00	0.02697						0.022	0	0.008	0.007	12.8	26.67	72
7/18/05 0:00	0.02591						0.02	0	0.007	0.006	13.7	26.11	75
7/18/05 1:00	0.02193						0.017	0	0.006	0.005	13.8	26.11	77
7/18/05 2:00	0.02203						0.017	0	0.005	0.005	15	25.56	79
7/18/05 3:00	0.0187						0.015	0	0.006	0.005	15.3	25.00	80
7/18/05 4:00	0.0154						0.017	0	0.003	0.003	13.3	24.44	80
7/18/05 5:00	0.016						0.013	0	0.006	0.006	13.4	24.44	81
7/18/05 6:00	0.01353						0.011	0.001	0.008	0.01	16.1	25.00	80
7/18/05 7:00	0.01147						0.012	0.002	0.008	0.01	16.7	26.11	77
7/18/05 8:00	0.01408						0.016	0.002	0.007	0.01	15.2	27.22	73
7/18/05 9:00	0.01966						0.028	0	0.003	0.003	18.2	30.00	63
7/18/05 10:00	0.02547						0.034	0	0.001	0.001	14.7	31.11	59
7/18/05 11:00	0.03081						0.037	0	0.002	0.001	16.2	31.67	58
7/18/05 12:00	0.03334						0.038	0	0.001	0.001	16.9	32.78	54
7/18/05 13:00	0.03765						0.04	0	0.002	0.001	20.9	33.89	50
7/18/05 14:00	0.0351						0.04	0	0.002	0.002	16.4	34.44	50
7/18/05 15:00	0.03594						0.04	0	0.002	0.002	16.6	35.00	46
7/18/05 16:00	0.03526						0.042	0	0.002	0.002	17.5	35.00	44
7/18/05 17:00	0.03437						0.04	0	0.003	0.002	18.3	33.89	49
7/18/05 18:00	0.03511						0.034	0	0.005	0.004	17.1	32.22	54
7/18/05 19:00	0.03654						0.03	0	0.005	0.004	18.1	30.56	62
7/18/05 20:00	0.02987						0.027	0	0.006	0.005	18.4	29.44	68
7/18/05 21:00	0.0298						0.029	0	0.006	0.005	21.5	28.33	70
7/18/05 22:00	0.02942						0.028	0	0.004	0.003	18.9	27.22	75
7/18/05 23:00	0.02635						0.024	0	0.006	0.006	18	26.67	78
7/19/05 0:00	0.02575						0.018	0	0.009	0.009	19.4	26.11	81
7/19/05 1:00	0.02603						0.011	0	0.008	0.008	18	24.44	87
7/19/05 2:00	0.02831						0.006	0	0.01	0.011	17	23.89	90
7/19/05 3:00	0.03647						0.006	0	0.01	0.01	17.3	23.89	89
7/19/05 4:00	0.0279						0.008	0.002	0.014	0.016	16.7	23.89	85
7/19/05 5:00	0.0304						0.004	0.003	0.017	0.02	17.2	23.89	85
7/19/05 6:00	0.02356						0.01	0.004	0.012	0.017	18.6	25.56	81
7/19/05 7:00	0.01756						0.018	0.002	0.009	0.012	21.2	28.33	72
7/19/05 8:00	0.01628						0.023	0.001	0.009	0.01	21.6	28.33	70
7/19/05 9:00	0.02345						0.03	0.002	0.009	0.011	23.4	31.11	62
7/19/05 10:00	0.02549						0.033	0.004	0.012	0.016	21	32.78	58
7/19/05 11:00	0.03246						0.036	0.002	0.009	0.011	18.8	33.89	53
7/19/05 12:00	0.03235						0.041	0	0.004	0.004	21.8	34.44	48
7/19/05 13:00	0.03415						0.039	0	0.002	0.002	21.3	35.00	45
7/19/05 14:00	0.03612						0.038	0	0.003	0.003	18.4	36.11	40
7/19/05 15:00	0.03653						0.039	0	0.004	0.004	20.8	36.11	39
7/19/05 16:00	0.03916						0.04	0	0.002	0.002	19.5	36.11	39
7/19/05 17:00	0.04076						0.039	0	0.002	0.002	18.8	36.11	39
7/19/05 18:00	0.03983						0.037	0	0.003	0.003	19.7	35.00	42
7/19/05 19:00	0.03955						0.035	0	0.003	0.002	19.1	32.78	48
7/19/05 20:00	0.04038						0.027	0	0.01	0.009	20.4	31.11	54
7/19/05 21:00	0.03215						0.026	0	0.009	0.009	21.2	30.56	57
7/19/05 22:00	0.0164						0.018	0	0.014	0.015	19.7	29.44	61
7/19/05 23:00	0.02857						0.019	0	0.011	0.01	18.6	27.78	66
7/20/05 0:00	0.02818						0.023	0	0.007	0.006	19.2	27.22	69
7/20/05 1:00	0.03537						0.025	0	0.004	0.004	21.1	26.67	70
7/20/05 2:00	0.03321						0.026	0	0.004	0.003	20.2	26.11	71
7/20/05 3:00	0.02752						0.021	0	0.009	0.008	20	26.11	72
7/20/05 4:00	0.035						0.018	0	0.013	0.012	24	26.11	75
7/20/05 5:00	0.03253						0.015	0	0.015	0.015	23.9	25.56	77
7/20/05 6:00	0.02715						0.018	0.002	0.016	0.018	25.9	26.67	74
7/20/05 7:00	0.02313						0.023	0.003	0.014	0.017	24.8	28.89	67
7/20/05 8:00	0.02813						0.032	0.002	0.009	0.011	25.8	31.11	59
7/20/05 9:00	0.03378						0.042	0	0.003	0.003	21	32.22	53
7/20/05 10:00	0.03908						0.046	0	0.002	0.002	20.7	33.89	49
7/20/05 11:00	0.04635						0.048	0	0.002	0.001	17.9	35.00	44
7/20/05 12:00	0.04763						0.047	0	0.002	0.002	14.8	35.56	40
7/20/05 13:00	0.04583						0.045	0	0.002	0.001	19.5	36.67	36
7/20/05 14:00	0.04428						0.049	0	0.002	0.001	18.3	36.67	36
7/20/05 15:00	0.04942						0.049	0	0.002	0.002	19.1	36.67	35
7/20/05 16:00	0.04786						0.049	0	0.003	0.002	21.7	36.67	35
7/20/05 17:00	0.05029						0.05	0	0.002	0.002	22.8	36.11	36
7/20/05 18:00	0.05317						0.048	0	0.003	0.003	22.9	35.00	40
7/20/05 19:00	0.04772						0.038	0	0.006	0.005	21.3	32.78	46
7/20/05 20:00	0.03829						0.035	0	0.008	0.007	20.5	31.67	49
7/20/05 21:00	0.04537						0.033	0	0.011	0.01	16.5	30.56	54
7/20/05 22:00	0.05435						0.032	0	0.012	0.012	17.7	30.00	56
7/20/05 23:00	0.05036						0.025	0	0.015	0.014	19.6	28.89	59
7/21/05 0:00	0.04315						0.019	0	0.018	0.017	18.9	28.89	60
7/21/05 1:00	0.03995						0.017	0	0.02	0.019	23.1	28.33	63
7/21/05 2:00	0.03437						0.026	0	0.009	0.009	20.6	27.78	64
7/21/05 3:00	0.02112						0.028	0	0.004	0.003	18.5	26.67	65
7/21/05 4:00	0.01836						0.023	0	0.004	0.003	17.5	26.11	67
7/21/05 5:00	0.0199						0.02	0	0.005	0.004	18.6	25.56	66
7/21/05 6:00	0.01499						0.018	0	0.006	0.006	18.2	26.67	63
7/21/05 7:00	0.01175						0.021	0.001	0.005	0.006	16.8	28.89	57
7/21/05 8:00	0.0155						0.03	0	0.003	0.003	22.7	30.56	54
7/21/05 9:00	0.02533						0.038	0	0.003	0.003	21.3	31.67	51
7/21/05 10:00	0.03308						0.04	0	0.002	0.001	26.7	33.33	48
7/21/05 11:00	0.03676						0.042	0	0.002	0.001	23.8	34.44	44
7/21/05 12:00	0.04293						0.042	0	0.001	0			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/17/05 6:00	198	1.34112	25	22.4	21.1	79	4.63	190	988.49	23	22.9	-0.1
7/17/05 7:00	203	1.34112	27.2	23	21.1	69	5.66	200	988.49	24.8	24.3	-0.5
7/17/05 8:00	198	1.34112	28.9	23.9	21.7	65	5.14	190	988.49	27.1	26.2	-0.9
7/17/05 9:00	197	1.78816	30.6	24.4	21.7	59	5.66	210	988.49	28.6	27.6	-1
7/17/05 10:00	189	2.2352	31.7	24.3	21.1	53	6.17	180	988.49	29.8	28.8	-0.9
7/17/05 11:00	192	2.2352	31.7	24.3	21.1	53	6.17	170	988.15	31.2	30	-1.2
7/17/05 12:00	199	2.2352	32.8	24.3	20.6	49	6.69	190	987.13	31.9	30.7	-1.1
7/17/05 13:00	198	2.2352	33.9	24.3	20	44	5.66	200	986.45	32	31.2	-0.8
7/17/05 14:00	203	2.2352	33.9	24.3	20	44	7.20	200	986.12	32.4	31.6	-0.8
7/17/05 15:00	206	1.78816	33.9	23.9	19.4	42	6.17	240	985.44	32.6	31.9	-0.7
7/17/05 16:00	204	1.34112	34.4	24.4	20	43	6.69	220	985.44	32.6	32	-0.6
7/17/05 17:00	207	1.34112	32.8	25.3	22.2	54	7.72	170	985.44	32.1	31.8	-0.3
7/17/05 18:00	188	2.2352	31.1	24.2	21.1	55	6.69	170	985.78	31.1	31.1	0.1
7/17/05 19:00	185	2.2352	30	24.2	21.7	61	5.66	180	985.78	29.2	29.6	0.4
7/17/05 20:00	184	1.78816	28.9	23.9	21.7	65	7.20	180	986.45	27.7	28.1	0.4
7/17/05 21:00	192	2.2352	28.3	23.4	21.1	65	6.69	180	986.79	27.2	27.6	0.4
7/17/05 22:00	198	1.34112	27.8	23.2	21.1	67	6.69	180	987.13	26.6	27	0.4
7/17/05 23:00	199	1.78816	27.2	23	21.1	69	8.75	180	986.45	25.8	26.1	0.3
7/18/05 0:00	202	1.78816	26.7	23.3	21.7	74	6.17	180	986.12	25.3	25.6	0.3
7/18/05 1:00	203	1.34112	26.1	23.1	21.7	77	5.14	190	986.12	24.7	25	0.3
7/18/05 2:00	202	1.34112	25.6	22.9	21.7	79	5.14	180	986.79	24.1	24.5	0.4
7/18/05 3:00	191	1.34112	25	22.4	21.1	79	4.12	180	987.47	23.6	24	0.4
7/18/05 4:00	190	1.78816	24.4	22.2	21.1	82	5.14	180	988.49	23.4	23.6	0.3
7/18/05 5:00	190	1.34112	24.4	22.2	21.1	82	5.14	180	989.50	23.1	23.4	0.3
7/18/05 6:00	199	1.34112	25.6	22.9	21.7	79	5.14	190	990.52	24.1	23.9	-0.2
7/18/05 7:00	209	0.89408	27.2	23.4	21.7	72	6.69	200	990.52	25.4	24.9	-0.5
7/18/05 8:00	214	1.34112	27.8	23.9	22.2	72	5.66	210	990.18	27.1	26.2	-0.8
7/18/05 9:00	212	1.78816	30	24.5	22.2	63	4.63	230	989.84	28.2	27.5	-0.8
7/18/05 10:00	223	1.34112	30.6	24.7	22.2	61	4.63	180	989.84	28.3	27.7	-0.6
7/18/05 11:00	220	1.34112	31.7	25	22.2	57	5.14	230	989.16	30.2	29	-1.2
7/18/05 12:00	228	1.78816	32.2	24.8	21.7	54	3.60	250	988.83	31.4	30.2	-1.2
7/18/05 13:00	215	1.34112	34.4	25.4	21.7	48	4.63	220	988.15	32.3	31.1	-1.3
7/18/05 14:00	220	1.34112	34.4	25.7	22.2	49	6.69	200	987.47	32.8	31.8	-1
7/18/05 15:00	234	1.34112	35	24.9	20.6	43	5.66	200	986.79	33.1	32.3	-0.9
7/18/05 16:00	227	1.34112	33.9	24.9	21.1	47	4.12	240	986.79	32.8	32.3	-0.5
7/18/05 17:00	225	0.89408	33.3	24.7	21.1	49	5.66	210	987.13	32	32	0
7/18/05 18:00	211	1.34112	32.2	25.1	22.2	56	7.20	190	987.13	31	31.2	0.2
7/18/05 19:00	222	0.89408	30.6	24.7	22.2	61	4.63	220	987.47	29.3	29.8	0.5
7/18/05 20:00	214	0.89408	29.4	24.8	22.8	68	3.60	220	988.15	27.8	28.5	0.7
7/18/05 21:00	235	0.89408	28.4	24.8	22.8	68	3.60	260	989.16	26.8	27.6	0.8
7/18/05 22:00	223	0.44704	27.2	24.1	22.8	77	3.09	200	989.16	26	26.7	0.7
7/18/05 23:00	224	0.44704	27.2	23.8	22.2	74	3.09	200	989.50	25	25.7	0.7
7/19/05 0:00	178	0.44704	26.7	23.6	22.2	76	0.00	0	989.50	23.7	24.9	1.2
7/19/05 1:00	157	0.44704	25	22.8	21.7	82	2.06	140	989.16	22.9	24.5	1.6
7/19/05 2:00	162	0.44704	25	22.8	21.7	82	3.09	120	989.50	23.8	24.6	0.8
7/19/05 3:00	124	0.44704	24.4	22.6	21.7	85	3.60	140	989.84	23.4	23.9	0.5
7/19/05 4:00	121	0.44704	24.4	22.9	22.2	88	3.60	140	990.18	23.2	23.6	0.4
7/19/05 5:00	152	0.44704	24.4	22.6	21.7	85	3.60	150	990.18	23.4	23.6	0.2
7/19/05 6:00	172	1.34112	26.7	23.6	22.2	76	3.60	180	990.52	23.5	23.5	0
7/19/05 7:00	191	1.34112	28.3	24.1	22.2	70	6.17	170	990.86	26	25.4	-0.7
7/19/05 8:00	190	1.78816	29.4	24.8	22.8	68	5.14	170	991.20	27.2	26.9	-0.3
7/19/05 9:00	194	1.78816	31.7	25.4	22.8	59	6.69	190	990.86	28.7	27.9	-0.8
7/19/05 10:00	192	1.78816	32.8	25.7	22.8	56	4.63	210	990.52	29.8	28.8	-0.9
7/19/05 11:00	199	1.78816	33.3	25.4	22.2	52	5.14	240	989.84	31.7	30.3	-1.4
7/19/05 12:00	212	1.78816	33.9	24.9	21.1	47	4.63	210	988.83	33.4	32.1	-1.3
7/19/05 13:00	206	1.78816	35.6	25	20.6	42	4.63	220	988.15	34.2	32.9	-1.3
7/19/05 14:00	205	1.78816	35	24.9	20.6	43	4.63	170	987.47	34.1	33.3	-0.9
7/19/05 15:00	197	1.34112	35.6	24.7	20	40	4.63	220	987.13	34.2	33.5	-0.7
7/19/05 16:00	206	1.34112	35.6	24.7	20	40	5.14	230	986.45	34.2	33.7	-0.5
7/19/05 17:00	211	1.34112	35	24.5	20	41	4.12	220	986.79	33.6	33.4	-0.2
7/19/05 18:00	212	0.89408	33.9	24.6	20.6	46	5.14	200	987.13	32.3	32.5	0.2
7/19/05 19:00	217	0.89408	32.8	24.3	20.6	49	3.09	200	987.47	29.9	30.9	0.9
7/19/05 20:00	210	0.89408	32.2	24.5	21.1	52	4.12	180	988.49	28.2	29.7	1.5
7/19/05 21:00	192	0.89408	29.4	23.7	21.1	61	4.63	160	989.16	27.8	28.8	1
7/19/05 22:00	170	0.89408	28.3	23.4	21.1	65	3.60	150	989.16	27.4	28.1	0.7
7/19/05 23:00	166	0.89408	27.8	23.2	21.1	67	3.60	170	989.16	26.3	27	0.7
7/20/05 0:00	176	0.89408	27.2	22.7	20.6	67	3.60	170	988.83	25.6	26.3	0.7
7/20/05 1:00	189	0.89408	27.2	22.7	20.6	67	4.12	170	988.83	25.2	25.8	0.6
7/20/05 2:00	212	0.44704	26.7	22.9	21.1	71	3.60	180	988.49	24.9	25.4	0.5
7/20/05 3:00	198	1.34112	26.1	22.7	21.1	74	4.12	180	988.83	24.5	25.1	0.6
7/20/05 4:00	202	0.89408	26.1	23.1	21.7	77	4.63	180	989.16	24.4	24.9	0.4
7/20/05 5:00	204	0.89408	26.1	23.1	21.7	77	5.14	180	989.50	24.3	24.6	0.3
7/20/05 6:00	200	1.34112	27.8	23.6	21.7	69	5.66	180	990.18	25.2	25.1	-0.1
7/20/05 7:00	205	1.34112	29.4	24.1	21.7	63	6.69	210	990.18	27.5	27.1	-0.4
7/20/05 8:00	221	1.34112	31.7	24.7	21.7	55	5.66	230	990.52	29.4	28.7	-0.7
7/20/05 9:00	222	1.78816	32.8	25	21.7	52	5.66	220	990.52	30.8	29.9	-0.9
7/20/05 10:00	225	1.78816	33.3	24.8	21.1	49	7.20	240	990.52	32	31	-1
7/20/05 11:00	219	2.2352	34.4	24.7	20.6	44	7.20	220	990.18	33.1	32.1	-1
7/20/05 12:00	208	2.2352	35	24.6	20	41	5.66	230	989.84	34	33	-1
7/20/05 13:00	206	2.2352	35.6	24.4	19.4	39	6.17	220	989.16	34.6	33.6	-1
7/20/05 14:00	219	1.78816	36.1	24.5	19.4	37	6.69	210	988.83	34.9	33.9	-1
7/20/05 15:00	214	1.78816	36.1	24.2	18.9	36	6.17	230	988.49	35	34.1	-0.9
7/20/05 16:00	199	1.78816	35.6	24.1	18.9	37	7.72	200	988.15	34.7	34.2	-0.5
7/20/05 17:00	208	1.34112	35.6	24.4	19.4	39	5.14	200	988.15	34.2	33.9	-0.2
7/20/05 18:00	218	1.34112	34.4	24.1	19.4	41	5.66	210	988.83	32.8	33	0.2
7/20/05 19:00	207	0.89408	33.3	23.8	19.4	44	4.63	210	988.83	30.4	31.2	0.8
7/20/05 20:00	212	0.89408	32.2	23.5	19.4	47	4.63	210	989.50	28.4	29.8	1.4
7/20/05 21:00	225	0.89408	31.7	23.7	20	50	4.63	210	989.84	28.2	29.2	1
7/20/05 22:00	226	0.89408	31.1	23.5	20	52	5.14	200	990.18	28.4	29.2	0.8
7/20/05 23:00	219	0.89408	30.6	23.4	20	53	5.66	200	990.18	28.5	29.1	0.6
7/21/05 0:00	218	0.89408	29.4	23	20	57	5.14	210	989.84	28.1	28.7	0.6
7/21/05 1:00	214	0.89408	28.3	23.1	20.6	63	3.60	200	990.18	27.7	28.3	0.6
7/21/05 2:00	219	0.89408	28.3	22.7	20	61	3.09	190	990.18	27.1	27.7	

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
7/17/05 6:00	88.8	2.2	3.1	0.9	5.6	0.6	157	11.3	145.3	0.52	0	981.41
7/17/05 7:00	82.2	2.5	3.5	1	6	0.8	164.1	12.6	327.3	1.18	0	981.59
7/17/05 8:00	73.3	2.5	3.5	1	6.8	0.8	162.3	13.7	513.8	1.85	0	981.58
7/17/05 9:00	67.8	3.2	4.3	1.2	7.8	0.9	173.9	13.8	686.4	2.47	0	981.44
7/17/05 10:00	62.5	3.3	4.6	1.3	8.9	1	169.6	14.8	685	2.47	0	981.45
7/17/05 11:00	59.2	3.4	4.9	1.5	9.3	1	164.2	15.3	889.4	3.2	0	981.29
7/17/05 12:00	54.3	3.8	5.1	1.3	9.1	1.2	160.5	15.4	902.8	3.25	0	980.67
7/17/05 13:00	51.9	3.8	5.2	1.4	8.6	1.1	160.9	13.8	895.9	2.51	0	980.07
7/17/05 14:00	51	3.8	5.2	1.4	9.1	1.1	157	13.3	685.7	2.47	0	979.35
7/17/05 15:00	50.3	4	5.7	1.7	9.7	1.1	171.1	13.1	668.4	2.41	0	979
7/17/05 16:00	50.8	3.4	4.8	1.5	8.1	1	172.4	13.3	528.8	1.9	0	978.64
7/17/05 17:00	51.8	3.1	4.5	1.3	7.8	1	164.5	12.6	338.6	1.22	0	978.5
7/17/05 18:00	54.8	2.4	3.6	1.2	7	0.7	162.7	11.8	154.1	0.55	0	978.63
7/17/05 19:00	63.5	2	3	1	6.2	0.7	147.8	12.1	14.9	0.05	0	978.9
7/17/05 20:00	70.8	1.9	2.7	0.9	4.7	0.6	171.5	12.3	0	0	0	979.37
7/17/05 21:00	73.1	2.1	3	0.9	5.9	0.7	172.6	13.4	0	0	0	979.93
7/17/05 22:00	73.1	3.1	4.3	1.2	7.7	0.9	153.3	10.4	0	0	0	980.08
7/17/05 23:00	76.6	3.3	4.6	1.3	7.8	0.8	157.6	9.6	0	0	0	979.74
7/18/05 0:00	79.1	3.1	4.5	1.4	7.7	0.9	161.3	9.5	0	0	0	979.46
7/18/05 1:00	82.6	2.6	4	1.4	6.8	0.7	169.8	9.6	0	0	0	979.4
7/18/05 2:00	85	2	3.2	1.2	6.3	0.6	171.1	9.6	0	0	0	979.61
7/18/05 3:00	86.8	2.2	3.2	1	5.4	0.6	160.3	9.9	0	0	0	980
7/18/05 4:00	87	2.4	3.6	1.1	5.8	0.7	158.3	10.6	0	0	0	980.8
7/18/05 5:00	87	2.2	3.2	1.1	6.3	0.6	162.1	10.8	15.5	0.06	0	982.02
7/18/05 6:00	84.4	1.7	2.5	0.8	5.3	0.5	157.2	11.5	166.2	0.6	0	983.07
7/18/05 7:00	79.8	3.3	4.8	1.5	8.8	1	176.3	11.2	300.3	1.08	0	983.17
7/18/05 8:00	74.6	3.6	5.1	1.5	8.5	1	183.7	11.8	510	1.84	0	983.08
7/18/05 9:00	70.5	3	4.1	1.2	8.3	0.9	200.2	13.4	499.3	1.8	0	983.31
7/18/05 10:00	70.4	1.3	1.8	0.5	3.9	0.6	236.9	19.4	335.6	1.21	0	983.29
7/18/05 11:00	64.9	1.7	2.2	0.6	5	0.7	181.9	26.2	775.3	2.79	0	982.79
7/18/05 12:00	60	1.9	2.5	0.6	6.6	0.8	205.4	21	880	3.17	0	982.33
7/18/05 13:00	55.9	3	4.1	1.1	6.7	1	196.8	13.3	911.8	3.28	0	981.66
7/18/05 14:00	54.3	3	4.1	1.1	7	0.9	201.5	12.4	794.3	2.86	0	981.23
7/18/05 15:00	52.9	2.8	3.9	1.1	7.6	0.9	196.2	12.3	649	2.34	0	980.66
7/18/05 16:00	53.7	2.1	2.9	0.9	6.5	0.7	195.7	12.2	396.4	1.43	0	980.37
7/18/05 17:00	56.3	2.2	3.4	1.2	7.4	0.6	181.4	10	201.5	0.73	0	980.3
7/18/05 18:00	60	2.2	3.3	1.1	6.5	0.7	165	11.1	124.5	0.45	0	980.24
7/18/05 19:00	66.7	1.9	3	1.2	5.7	0.6	173.5	9.6	11.2	0.04	0	980.69
7/18/05 20:00	74	1.6	2.7	1.2	4.9	0.5	176.8	8.3	0	0	0	981.12
7/18/05 21:00	76.7	0.8	1.6	0.8	4.4	0.4	162.8	17.9	0	0	0	982.41
7/18/05 22:00	79	1.5	2.6	1.1	4.4	0.4	166.8	8	0	0	0	982.28
7/18/05 23:00	82.9	1.2	2.3	1.1	4.1	0.4	207.8	8.4	0	0	0	982.76
7/19/05 0:00	86.3	0.2	1	0.8	3	0.2	146.8	14.4	0	0	0	982.55
7/19/05 1:00	91.1	0.1	1.1	1	3	0.2	121.4	8.4	0	0	0	982.35
7/19/05 2:00	87	0.7	1.8	1.1	3.8	0.3	133	11	0	0	0	982.16
7/19/05 3:00	90.3	1.1	2.3	1.1	3.8	0.4	118.9	8.9	0	0	0	982.8
7/19/05 4:00	90.1	1.7	3	1.2	4.5	0.5	124.6	8.8	0	0	0	983.14
7/19/05 5:00	89	1.8	2.9	1.1	4.7	0.6	138.5	10.7	9.8	0.04	0	983.29
7/19/05 6:00	91.3	1.8	2.7	0.9	4.8	0.6	136.8	12.1	67.1	0.24	0	983.4
7/19/05 7:00	82.8	1.7	2.4	0.7	4.7	0.7	149.9	15.3	307	1.11	0	983.8
7/19/05 8:00	76.6	2.7	3.7	1	7.2	0.8	184.3	13.4	234.9	0.85	0	984.22
7/19/05 9:00	73.3	2.8	3.9	1.2	6.3	0.8	165.2	12.7	525.9	1.89	0	984.05
7/19/05 10:00	68.3	2.8	3.9	1.1	6.5	0.8	159.2	13.9	618.8	2.23	0	983.88
7/19/05 11:00	62.6	3.1	4.3	1.2	7.5	0.7	154.8	14.7	865.4	3.19	0	983.05
7/19/05 12:00	54.5	2.8	3.8	1	6.3	1	186	19.4	952	3.43	0	982.44
7/19/05 13:00	48.8	3.2	4.4	1.2	8.3	1.1	158.3	17.5	898.9	3.24	0	981.74
7/19/05 14:00	47.4	2.7	3.8	1.1	7.6	0.9	161.3	16.6	628.3	2.26	0	981.12
7/19/05 15:00	46.4	3	4.3	1.3	7.4	0.8	168.7	14.7	614.5	2.21	0	980.68
7/19/05 16:00	43.8	3.1	4.5	1.3	7.3	0.9	171.8	13.7	518.4	1.87	0	980.22
7/19/05 17:00	44	2.9	4.2	1.3	7.9	0.9	168.3	11.7	340.7	1.23	0	980.03
7/19/05 18:00	50.3	2.2	3.3	1.1	5.9	0.6	164.9	10.4	155.3	0.56	0	980.29
7/19/05 19:00	59.6	1.2	2.3	1.1	3.8	0.3	160.9	8.2	11.8	0.04	0	980.69
7/19/05 20:00	67.3	0.7	2.1	1.4	3.6	0.3	164	6.5	0	0	0	981.31
7/19/05 21:00	68.5	1.5	2.7	1.1	4.4	0.4	158.7	8.4	0	0	0	982.09
7/19/05 22:00	69.6	1.7	2.7	1	4.7	0.5	143.8	9.9	0	0	0	982.31
7/19/05 23:00	73.1	1.2	2.2	0.9	4	0.4	161.4	11.2	0	0	0	982.32
7/20/05 0:00	75.5	1.2	2.1	0.8	3.4	0.4	160.1	11.6	0	0	0	982.18
7/20/05 1:00	77.5	1.3	2.1	0.8	4.1	0.4	160.3	12	0	0	0	981.95
7/20/05 2:00	78.6	1.6	2.6	1	4	0.4	177.9	10.6	0	0	0	981.84
7/20/05 3:00	80.4	1.9	3	1.1	5.3	0.5	159.2	9.1	0	0	0	981.84
7/20/05 4:00	81.4	2.2	3.3	1.2	5.3	0.6	161.7	9.8	0	0	0	982.03
7/20/05 5:00	83.4	2.4	3.7	1.3	5.7	0.6	166.9	9	15.8	0.06	0	982.39
7/20/05 6:00	81.8	2.6	4	1.4	6.6	0.7	172.9	9.6	146.7	0.53	0	982.85
7/20/05 7:00	72.7	3.1	4.6	1.4	8.3	0.9	179.8	10.2	330.3	1.19	0	983.14
7/20/05 8:00	64.9	3.6	5.1	1.5	8	0.9	190.8	10.5	514.4	1.85	0	983.34
7/20/05 9:00	58.7	4.1	5.6	1.5	9	1.1	196.8	10.7	683.8	2.46	0	983.63
7/20/05 10:00	55.4	3.9	5.3	1.4	8.6	1	195.9	12.2	812.3	2.92	0	983.69
7/20/05 11:00	50.9	4.2	5.8	1.5	10.2	1.2	196	12.6	894.4	3.22	0	983.38
7/20/05 12:00	45.9	4.2	5.8	1.6	10.9	1.2	184.8	15.3	911.9	3.28	0	982.99
7/20/05 13:00	42.8	4.3	6	1.7	10	1.2	174.4	13.1	896.1	3.23	0	982.35
7/20/05 14:00	41.6	3.9	5.6	1.6	11.6	1.3	170.8	15.1	819.3	2.95	0	982.06
7/20/05 15:00	40.8	3.8	5.4	1.7	10.9	1.2	173.7	14.2	696.1	2.51	0	981.67
7/20/05 16:00	39.5	3.3	4.8	1.5	8.5	1	182.3	13	529.8	1.91	0	981.52
7/20/05 17:00	41.1	3.1	4.5	1.4	7.8	0.9	180.6	12	345.7	1.24	0	981.49
7/20/05 18:00	45.5	2.5	3.8	1.3	6.8	0.7	166.3	10.9	157.3	0.57	0	981.73
7/20/05 19:00	54.6	1.8	2.9	1.1	4.8	0.4	163.2	8.3	11.3	0.04	0	981.97
7/20/05 20:00	63.2	1.1	2.5	1.4	4.2	0.3	163.6	6.7	0	0	0	982.57
7/20/05 21:00	64.3	1.7	3.1	1.4	4.7	0.5	173.6	8	0	0	0	982.94
7/20/05 22:00	62.7	2.2	3.8	1.6	6.7	0.7	178.8	8.5	0	0	0	983.28
7/20/05 23:00	61	2.8	4.4	1.6	7.9	0.8	179.8	9.3	0	0	0	983.28
7/21/05 0:00	62.4	2.7	4.1	1.5	7	0.7	185.8	9.1	0	0	0	983.08
7/21/05 1:00	64.4	2.9	4.4	1.5	6.9	0.7	187.4	9.1	0	0	0	983.06
7/21/05 2:00	65.8	3.2	4.6	1.4	6.9	0.7	193.4	8.3	0	0	0	983.03
7/21/05 3:00	67.2	2.6	3.8	1.2	6.8	0.5	200.5	7.9	0	0	0	983.27
7/21/05 4:00	70	2.2	3.4	1.3	5.7	0.5	192.2	7.3	0	0	0	983.39
7/21/05 5:00	69.6	2.1	3.4	1.3	6.2	0.5	190.1	7.7	15.5	0.06	0	984
7/21/05 6:00	67.9	2.6	3.7	1.1	6.5	0.6	200.3	8	152.2	0.55	0	984.83
7/21/05 7:00	64.3	3.2	4.4	1.2	6.5	0.7	199.9	9.4	338.8	1.22	0	985.49
7/21/05 8:00	60.8	3.8	5	1.2	8.5	1.1	201.3	11	521.5	1.88	0	985.66

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Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127							T _a (°C)	RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)		
7/21/05 21:00	0.03952						0.007	0.012	0.026	0.038	22.8	28.33	62
7/21/05 22:00	0.05265						0.002	0.009	0.033	0.042	23.1	27.22	67
7/21/05 23:00	0.04552						0.024	0.001	0.013	0.014	15.6	28.33	61
7/22/05 0:00	0.03593						0.035	0	0.003	0.002	13.3	29.44	58
7/22/05 1:00	0.03626						0.032	0	0.004	0.003	13.5	27.78	64
7/22/05 2:00	0.04353						0.024	0	0.008	0.007	14.3	26.11	72
7/22/05 3:00	0.04211						0.014	0	0.012	0.012	15.2	25.00	78
7/22/05 4:00	0.04303						0.018	0.001	0.01	0.012	15.7	25.00	78
7/22/05 5:00	0.03444						0.021	0	0.011	0.011	17.4	25.56	76
7/22/05 6:00	0.02921						0.025	0.001	0.013	0.014	18.5	27.22	69
7/22/05 7:00	0.02623							0.001	0.009	0.01	18.7	30.00	60
7/22/05 8:00	0.02589						0.033	0	0.005	0.005	18.9	31.67	52
7/22/05 9:00	0.03418						0.037	0	0.002	0.002	15.8	34.44	44
7/22/05 10:00	0.03941						0.036	0	0.002	0.002	18.8	35.56	40
7/22/05 11:00	0.04055						0.039	0	0.001	0	21.3	37.22	36
7/22/05 12:00	0.04469						0.046	0	0.001	0	20.2	37.78	33
7/22/05 13:00	0.04819						0.055	0	0.002	0.002	19.6	38.33	33
7/22/05 14:00	0.04877						0.061	0	0.004	0.004	20.4	38.89	29
7/22/05 15:00	0.06064						0.069	0	0.005	0.005	22.5	39.44	27
7/22/05 16:00	0.05994						0.07	0	0.008	0.008	25.9	39.44	27
7/22/05 17:00	0.05876												
7/22/05 18:00	0.05481												
7/22/05 19:00	0.04386												
7/22/05 20:00	0.02774												
7/22/05 21:00	0.0207												
7/22/05 22:00	0.01994												
7/22/05 23:00	0.0183												
7/23/05 0:00	0.01606												
7/23/05 1:00	0.01709												
7/23/05 2:00	0.03995												
7/23/05 3:00	0.03744												
7/23/05 4:00	0.02973												
7/23/05 5:00	0.0333												
7/23/05 6:00	0.04569												
7/23/05 7:00	0.04423												
7/23/05 8:00	0.04264												
7/23/05 9:00	0.05												
7/23/05 10:00	0.06155												
7/23/05 11:00	0.06364												
7/23/05 12:00	0.06764												
7/23/05 13:00	0.06719												
7/23/05 14:00	0.06476												
7/23/05 15:00	0.06166												
7/23/05 16:00	0.06214												
7/23/05 17:00	0.06533												
7/23/05 18:00	0.06894												
7/23/05 19:00	0.06913												
7/23/05 20:00	0.05803												
7/23/05 21:00	0.05894												
7/23/05 22:00	0.05909												
7/23/05 23:00	0.06383												
7/24/05 0:00	0.03823												
7/24/05 1:00	0.03679												
7/24/05 2:00	0.05356												
7/24/05 3:00	0.05091												
7/24/05 4:00	0.04035												
7/24/05 5:00	0.03764												
7/24/05 6:00	0.0386												
7/24/05 7:00	0.03656												
7/24/05 8:00	0.03617												
7/24/05 9:00	0.03094												
7/24/05 10:00	0.04105												
7/24/05 11:00	0.04207												
7/24/05 12:00	0.04593												
7/24/05 13:00	0.04374												
7/24/05 14:00	0.04656												
7/24/05 15:00	0.04798												
7/24/05 16:00	0.04768												
7/24/05 17:00	0.04553												
7/24/05 18:00	0.04642												
7/24/05 19:00	0.04499												
7/24/05 20:00	0.0457												
7/24/05 21:00	0.03597												
7/24/05 22:00	0.03765												
7/24/05 23:00	0.04522												
7/25/05 0:00	0.04099												
7/25/05 1:00	0.04593												
7/25/05 2:00	0.04239												
7/25/05 3:00	0.04354												
7/25/05 4:00	0.04459												
7/25/05 5:00	0.03522												
7/25/05 6:00	0.02924												
7/25/05 7:00	0.01945												
7/25/05 8:00	0.0167												
7/25/05 9:00	0.02495												
7/25/05 10:00	0.02526												
7/25/05 11:00	0.03253												
7/25/05 12:00	0.03592												
7/25/05 13:00	0.03294												
7/25/05 14:00	0.02964												
7/25/05 15:00	0.02472												
7/25/05 16:00	0.02893												
7/25/05 17:00	0.02621												
7/25/05 18:00	0.03663												
7/25/05 19:00	0.04247												
7/25/05 20:00	0.02908												
7/25/05 21:00	0.04129												
7/25/05 22:00	0.03118												
7/25/05 23:00	0.0271												
7/26/05 0:00	0.02668											28.89	49
7/26/05 1:00	0.02517											28.33	54
7/26/05 2:00	0.02715											27.78	58
7/26/05 3:00	0.02998											27.22	60
7/26/05 4:00	0.02778											27.22	60
7/26/05 5:00	0.02839											27.22	60
7/26/05 6:00	0.02607											27.78	57
7/26/05 7:00	0.02039											29.44	54
7/26/05 8:00	0.02103										30.6	31.11	50
7/26/05 9:00	0.02545										29.4	32.22	46
7/26/05 10:00	0.02636										31.2	33.33	45
7/26/05 11:00	0.03655										30.2	34.44	43

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Date/Time (CST)	WDIR	WS (m/s)	KTUL				WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)	RH (%)				T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/21/05 21:00	173	0	31.1	23.5	20	52	3.60	210	990.18	28.6	30.2	1.6
7/21/05 22:00	164	0	31.7	23.7	20	50	3.09	210	989.84	28.2	29.6	1.3
7/21/05 23:00	211	0.44704	31.1	23.5	20	52	3.60	210	989.84	28.1	29.2	1.1
7/22/05 0:00	211	0.44704	30	23.2	20	55	3.09	190	990.18	27.9	28.7	0.8
7/22/05 1:00	227	0	29.4	23.4	20.6	59	2.57	210	990.18	27.2	28.2	1
7/22/05 2:00	148	0	28.3	23.1	20.6	63	0.00	0	990.86	26.2	27.6	1.3
7/22/05 3:00	170	0	27.8	22.9	20.6	65	1.54	190	991.20	26	27.1	1.2
7/22/05 4:00	198	0	27.2	22.7	20.6	67	2.57	190	991.53	26	26.9	0.9
7/22/05 5:00	185	0	27.2	23.1	21.1	69	3.60	200	991.87	25.7	26.5	0.8
7/22/05 6:00	213	0.44704	28.9	23.2	20.6	61	2.57	220	992.21	26.8	26.9	0.1
7/22/05 7:00	221	0.89408	30.6	23.7	20.6	55	4.12	260	991.87	29	28.5	-0.5
7/22/05 8:00	256	1.34112	33.3	24.5	20.6	47	4.12	270	992.21	31.1	30.4	-0.7
7/22/05 9:00	254	1.78816	34.4	24.4	20	43	4.63	250	992.21	33	32	-0.9
7/22/05 10:00	282	2.2352	35.6	24.7	20	40	4.12	240	992.21	34.5	33.4	-1.1
7/22/05 11:00	255	1.34112	37.8	24.9	19.4	34	4.63	280	991.87	35.6	34.4	-1.2
7/22/05 12:00	221	1.34112	37.8	25.3	20	35	2.57	260	991.20	36.8	35.4	-1.3
7/22/05 13:00	230	1.34112	38.3	24.8	18.9	32	2.06	0	990.52	37.5	36.3	-1.3
7/22/05 14:00	227	1.34112	38.3	24.5	18.3	31	3.09	110	990.18	37.9	36.7	-1.2
7/22/05 15:00	201	1.34112	38.9	24.6	18.3	30	1.54	0	989.84	38	36.9	-1.2
7/22/05 16:00	215	1.34112	38.9	24.3	17.8	29	3.09	0	989.50	38.3	37.3	-1
7/22/05 17:00			38.3	24.5	18.3	31	3.60	190	989.16	37.2	36.8	-0.4
7/22/05 18:00			37.2	24.2	18.3	33	3.09	230	989.16	35.8	35.8	0
7/22/05 19:00			36.1	24.2	18.9	36	2.06	0	989.50	32.3	33.7	1.3
7/22/05 20:00			35	24.2	19.4	40	2.06	0	990.18	30.1	32.5	2.4
7/22/05 21:00			33.9	23.9	19.4	42	0.00	0	990.52	28.9	31.5	2.6
7/22/05 22:00			30	23.6	20.6	57	0.00	0	990.52	28.5	30.9	2.5
7/22/05 23:00			28.3	23.8	21.7	67	0.00	0	990.52	28	30.7	2.7
7/23/05 0:00			27.2	23.1	21.1	69	0.00	0	990.52	27	30.1	3.1
7/23/05 1:00			26.7	23.6	22.2	76	0.00	0	990.86	26.3	29.4	3
7/23/05 2:00			26.7	23.3	21.7	74	0.00	0	990.86	26.4	28.6	2.2
7/23/05 3:00			27.8	22.9	20.6	65	0.00	0	990.86	26.1	28.1	2
7/23/05 4:00			27.2	23.4	21.7	72	2.57	190	991.53	25.7	27.4	1.7
7/23/05 5:00			28.3	23.4	21.1	65	0.00	0	991.53	25.5	26.8	1.3
7/23/05 6:00			29.4	23.7	21.1	61	0.00	0	991.87	27.1	27.2	0.1
7/23/05 7:00			31.1	23.9	20.6	54	2.57	270	992.21	29.1	28.6	-0.5
7/23/05 8:00			32.8	24	20	47	3.09	260	992.21	31.1	30.3	-0.8
7/23/05 9:00			35	24.9	20.6	43	3.60	290	991.87	33.1	32.1	-1
7/23/05 10:00			35.6	24.7	20	40	0.00	0	991.53	34.9	33.7	-1.3
7/23/05 11:00			37.8	24.9	19.4	34	2.06	0	991.20	36.3	35	-1.3
7/23/05 12:00			37.8	24.9	19.4	34	2.57	180	990.52	37.4	36	-1.4
7/23/05 13:00			38.9	25.2	19.4	32	2.57	0	989.50	38	36.6	-1.4
7/23/05 14:00			38.3	24.5	18.3	31	2.57	270	988.83	38.3	37.1	-1.2
7/23/05 15:00			38.3	24.8	18.9	32	2.06	0	988.49	38.6	37.3	-1.3
7/23/05 16:00			30	24.5	22.2	63	4.63	120	990.18	31	30.9	-0.2
7/23/05 17:00			26.1	23.1	21.7	77	5.66	170	991.53	24.2	25.7	1.5
7/23/05 18:00			25	22.8	21.7	82	2.06	110	990.86	24.4	25.2	0.9
7/23/05 19:00			26.7	22.9	21.1	71	0.00	0	989.50	24.3	25.2	0.9
7/23/05 20:00			26.1	22.7	21.1	74	4.12	150	989.16	24.2	25.6	1.4
7/23/05 21:00			26.1	22.7	21.1	74	0.00	0	989.50	24.3	25	0.7
7/23/05 22:00			25.6	22.9	21.7	79	0.00	0	989.50	24.2	24.7	0.5
7/23/05 23:00			25.6	21.7	0	0	0.00	0	990.52	24.3	25.1	0.7
7/24/05 0:00			24.4	22.6	21.7	85	0.00	0	990.18	23.4	24	0.6
7/24/05 1:00			23.9	22.4	21.7	88	2.06	150	990.18	22.9	24.2	1.3
7/24/05 2:00			24.4	22.2	21.1	82	1.54	100	990.18	22.5	23.4	0.9
7/24/05 3:00			23.9	22.4	21.7	89	2.57	100	990.52	22.5	23.5	1
7/24/05 4:00			23.3	22.2	21.7	91	2.57	140	990.52	22.6	23.2	0.5
7/24/05 5:00			23.9	22	21.1	84	3.09	170	990.86	22.5	22.8	0.3
7/24/05 6:00			25.6	22.9	21.7	79	3.60	180	991.20	24.1	24.1	0
7/24/05 7:00			27.8	23.2	21.1	67	4.12	160	991.53	25.9	25.4	-0.5
7/24/05 8:00			30	24.2	21.7	61	4.63	180	991.53	27.9	27.2	-0.7
7/24/05 9:00			32.2	24.2	20.6	50	5.14	210	991.53	29.8	28.9	-0.9
7/24/05 10:00			32.8	24	20	47	5.66	210	991.20	31	30.2	-0.9
7/24/05 11:00			33.3	24.5	20.6	47	3.60	220	990.52	31.9	30.9	-1
7/24/05 12:00			35	24.5	20	41	7.72	190	989.50	33.1	32.2	-1
7/24/05 13:00			36.1	24.8	20	39	6.69	210	988.83	33.9	33	-0.9
7/24/05 14:00			36.1	24.8	20	39	6.69	200	988.15	34.1	33.4	-0.7
7/24/05 15:00			36.1	24.5	19.4	37	7.72	190	987.47	34.3	33.7	-0.5
7/24/05 16:00			36.1	24.8	20	39	6.17	180	987.13	33.9	33.6	-0.2
7/24/05 17:00			36.1	24.5	19.4	37	6.17	200	986.79	33.7	33.6	-0.1
7/24/05 18:00			35	23.9	18.9	39	6.69	200	986.79	32.8	33.1	0.3
7/24/05 19:00			33.3	23.8	19.4	44	4.12	200	987.13	30.4	31.7	1.3
7/24/05 20:00			33.3	23.8	19.4	44	4.12	210	987.81	31.2	30.6	1.9
7/24/05 21:00			31.7	23.7	20	50	4.12	200	988.15	29.1	30.3	1.1
7/24/05 22:00			31.1	23.9	20.6	54	4.12	190	988.49	28.7	29.7	1
7/24/05 23:00			31.1	23.9	20.6	54	5.14	180	988.15	27.8	28.9	1.1
7/25/05 0:00			29.4	23.4	20.6	59	4.12	160	987.81	27.3	28.2	0.9
7/25/05 1:00			29.4	23	20	57	4.63	180	987.13	26.4	27.6	1.2
7/25/05 2:00			29.4	22.4	18.9	53	3.60	200	987.13	26.3	27.4	1.2
7/25/05 3:00			28.9	22.5	19.4	57	4.63	200	987.47	26.7	27.4	0.7
7/25/05 4:00			28.3	22.3	19.4	59	4.63	200	987.81	26.2	26.8	0.6
7/25/05 5:00			27.8	22.2	19.4	60	3.60	170	988.15	26.1	26.6	0.5
7/25/05 6:00			27.8	22.6	20	63	5.14	170	988.49	26.5	26.6	0.1
7/25/05 7:00			29.4	23.4	20.6	59	5.14	180	988.83	27.7	27.3	-0.4
7/25/05 8:00			30.6	23.7	20.6	55	4.63	180	988.83	29.5	28.8	-0.8
7/25/05 9:00			32.2	24.5	21.1	52	6.69	180	988.49	30.4	29.6	-0.8
7/25/05 10:00			33.3	24.7	21.1	49	6.69	190	987.81	31.4	30.4	-1
7/25/05 11:00			35	24.9	20.6	43	7.72	180	986.79	32.8	31.9	-0.8
7/25/05 12:00			36.1	24.8	20	39	8.23	200	986.79	33.8	33	-0.8
7/25/05 13:00			36.7	25	20	38	9.26	200	986.12	34.4	33.7	-0.7
7/25/05 14:00			36.7	24.6	19.4	36	8.75	190	985.44	34.5	34	-0.6
7/25/05 15:00			36.7	24	18.3	34	6.69	220	985.10	34.7	34.2	-0.5
7/25/05 16:00			36.7	24	18.3	34	9.26	180	984.42	33.9	33.9	0
7/25/05 17:00			36.1	23.3	17.2	33	8.75	190	984.08	33.7	33.8	0.1
7/25/05 18:00			35	23	17.2	35	8.23	190	983.75	32.7	33	0.3
7/25/05 19:00			33.3	22.9	17.8	40	5.66	190	983.41	30.6	31.5	0.9
7/25/05 20:00			32.8	22.4	17.2	39	8.23	200	984.08	28.9	30	1.1
7/25/05 21:00			31.7	21.8	16.7	41	6.69	200	984.76	28.5	29.2	0.8
7/25/05 22:00			31.1	21.3	16.1	40	5.66	190	984.76	28.6	29.2	0.6
7/25/05 23:00			30	21.3	16.7	45	5.66	190	984.76	28.9	29.4	0.6
7/26/05 0:00	198	1.78816	28.9	21.6	17.8	51	5.66	180	984.08	28	28.4	0.5
7/26/05 1:00	198	1.78816	28.3	21.7	18.3	55	7.72	180	984.08	27.2	27.6	0.4
7/2												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
7/21/05 21:00	60.7	1	2.5	1.5	3.6	0.3	168.5	7.1	0	0	0	983.58
7/21/05 22:00	61.7	1.4	2.7	1.3	4.7	0.3	184.3	7.2	0	0	0	983.33
7/21/05 23:00	61.8	2.1	3.3	1.3	5.9	0.4	194	7	0	0	0	983.24
7/22/05 0:00	63.8	2.2	3.4	1.2	5.1	0.4	197	7	0	0	0	983.26
7/22/05 1:00	66.6	1.6	2.9	1.2	4.4	0.3	199.9	6.3	0	0	0	983.4
7/22/05 2:00	70.9	1.1	2.4	1.3	3.5	0.2	197.3	5.3	0	0	0	983.72
7/22/05 3:00	72.3	1.3	2.6	1.3	3.5	0.2	198.1	5.7	0	0	0	984.1
7/22/05 4:00	72.3	1.6	2.9	1.3	4.4	0.4	201.4	6.4	0	0	0	984.36
7/22/05 5:00	74	1.4	2.8	1.4	4	0.3	200.8	6.4	14.4	0.05	0	984.56
7/22/05 6:00	72.3	2.1	3.1	1	5.3	0.4	203.8	7.4	140.9	0.51	0	984.88
7/22/05 7:00	64.3	2.5	3.3	0.8	5.4	0.6	206.7	9.4	326.5	1.18	0	985.05
7/22/05 8:00	56.9	2.7	3.5	0.9	6.1	0.7	213.8	12	509.1	1.83	0	985.24
7/22/05 9:00	49.8	2.8	3.9	1	6.9	0.8	217.7	12.8	680.3	2.45	0	985.47
7/22/05 10:00	45.4	3	4.1	1.1	7	0.8	209.1	12.9	809.1	2.91	0	985.48
7/22/05 11:00	41.8	2.8	3.8	1	6.7	0.8	203.3	12.2	887.8	3.2	0	985.34
7/22/05 12:00	36.5	1.8	2.6	0.8	5.8	0.9	182.6	21.5	916	3.3	0	984.91
7/22/05 13:00	32.9	1.5	2.1	0.6	5.8	0.8	193	22.8	893.7	3.22	0	984.53
7/22/05 14:00	31.8	1.5	2.1	0.6	5.6	0.9	193.8	24.5	815.8	2.94	0	984.05
7/22/05 15:00	32.7	1.6	2.3	0.7	5.6	0.8	182	17.3	686.9	2.47	0	983.63
7/22/05 16:00	32.5	0.8	1.3	0.5	4.1	0.7	197.7	21.4	521.2	1.88	0	983.39
7/22/05 17:00	33.7	1.5	2.2	0.7	4.2	0.5	207.8	11.4	331.2	1.19	0	982.96
7/22/05 18:00	39.7	0.6	1.5	0.9	2.6	0.2	211.4	8	141.8	0.51	0	982.83
7/22/05 19:00	51.8	0	1.3	1.2	2.1	0.1	203.3	4.4	13.8	0.05	0	982.81
7/22/05 20:00	57.2	0	1.5	1.5	1.9	0.1	195.3	3.1	0	0	0	983.4
7/22/05 21:00	60.3	0.1	1.6	1.6	2.4	0.2	196.7	4.5	0	0	0	983.85
7/22/05 22:00	59.7	0.1	1.4	1.3	2.3	0.1	197.8	3.1	0	0	0	983.94
7/22/05 23:00	61.2	0	1.3	1.3	1.8	0.1	215.8	3.5	0	0	0	983.94
7/23/05 0:00	66.3	0.1	1.6	1.5	2.3	0.1	227.5	5.4	0	0	0	983.81
7/23/05 1:00	69.4	0.1	1.5	1.4	2.1	0.2	226.3	4.8	0	0	0	983.93
7/23/05 2:00	69.8	0.2	1.5	1.3	2.1	0.2	222.1	5.1	0	0	0	984.01
7/23/05 3:00	70.4	0.3	1.5	1.2	2.3	0.1	219.3	4	0	0	0	984.15
7/23/05 4:00	73.3	0.5	1.7	1.2	2.2	0.1	216.5	3.8	0	0	0	984.34
7/23/05 5:00	75.9	0.9	1.9	1.1	2.6	0.2	216.7	5.4	13.8	0.05	0	984.68
7/23/05 6:00	72.7	1	1.9	0.9	3	0.3	218.8	8	139.5	0.5	0	984.78
7/23/05 7:00	64.7	1.7	2.4	0.7	4.6	0.5	219.4	11.3	321.5	1.16	0	985.14
7/23/05 8:00	56.1	2.5	3.3	0.8	5.9	0.6	216.3	12.5	507.6	1.83	0	985.26
7/23/05 9:00	50.6	2.3	3	0.7	5.8	0.6	213.8	13.3	681.1	2.45	0	985.16
7/23/05 10:00	44.4	1.9	2.6	0.7	5.3	0.7	201.3	17.1	812.8	2.93	0	985.09
7/23/05 11:00	38.4	2.3	3.1	0.8	6.8	0.9	198.5	15.4	888.5	3.2	0	984.75
7/23/05 12:00	34.3	2.2	2.9	0.7	6.9	1	177.8	20	920.7	3.31	0	984.35
7/23/05 13:00	32.8	1.8	2.4	0.7	6.4	0.9	182.7	24.8	909.5	3.27	0	983.47
7/23/05 14:00	30.5	2.1	2.8	0.7	6.3	0.8	207.2	18	810.2	2.92	0	982.56
7/23/05 15:00	29.3	2.1	3	0.9	6.5	0.9	172.3	20.6	743.8	2.68	0	982.32
7/23/05 16:00	49.5	3.1	4.4	1.3	16.1	1.5	71.4	23.6	246.9	0.89	0.17	982.36
7/23/05 17:00	81	2.4	3.5	1.1	19.8	1.2	167.3	26.8	9.9	0.04	0.65	984.28
7/23/05 18:00	85.2	1	1.8	0.8	6.3	0.5	132.9	18.7	8.1	0.03	0	984.59
7/23/05 19:00	81.3	0.8	2.2	1.4	5.6	0.4	108.7	10.7	3.3	0.01	0.01	983.52
7/23/05 20:00	80.3	0.5	1.5	1.1	2.9	0.3	147.2	13.8	0	0	0	982.34
7/23/05 21:00	76.9	0.6	1.5	0.9	4	0.4	160.8	15.2	0	0	0	982.32
7/23/05 22:00	80.8	1	2	1.1	3.9	0.4	151.9	11.4	0	0	0	982.69
7/23/05 23:00	79.6	0.9	1.9	1	3.7	0.3	183.2	10	0	0	0	983.28
7/24/05 0:00	85.9	0.7	1.6	0.9	2.4	0.2	209.2	8.8	0	0	0	983.37
7/24/05 1:00	89.1	0	0.8	0.8	1.8	0.2	160	5.7	0	0	0	983.21
7/24/05 2:00	90.8	0.6	1.7	1.1	3.2	0.2	110.5	8.2	0	0	0	983.36
7/24/05 3:00	92	0.4	1.6	1.2	2.6	0.3	117.2	10.5	0	0	0	983.46
7/24/05 4:00	89.3	0.2	1.3	1.1	2.4	0.3	145.2	11	0	0	0	983.54
7/24/05 5:00	90.8	0.8	1.9	1	3.3	0.4	159.3	12.5	13.3	0.05	0	983.73
7/24/05 6:00	84.4	1.2	2	0.8	3.9	0.5	153.7	12.1	128.3	0.46	0	983.93
7/24/05 7:00	78.3	1.6	2.2	0.7	4.1	0.5	187.3	12.9	315.2	1.13	0	984.26
7/24/05 8:00	72.3	2.1	2.9	0.8	5.7	0.6	188.3	13	504.6	1.82	0	984.56
7/24/05 9:00	62.3	2.7	3.7	1	6.5	0.7	174.3	12.9	685.3	2.47	0	984.5
7/24/05 10:00	55	3.5	4.7	1.2	7.8	1	189.5	12.5	797	2.87	0	984.24
7/24/05 11:00	53.5	3.4	4.7	1.3	8.4	1	191.5	13	889.2	3.2	0	983.77
7/24/05 12:00	48.1	3.7	5.1	1.4	8.6	1.2	170.3	14.5	936.4	3.37	0	983.06
7/24/05 13:00	45.9	3.7	5	1.3	9.1	1.2	155.7	15.5	896.3	3.23	0	982.26
7/24/05 14:00	44.8	3.8	5.4	1.5	9.8	1.2	163.9	13.8	707.6	2.55	0	981.63
7/24/05 15:00	44.6	4	5.6	1.6	9.9	1.2	167.9	13.2	597.6	2.15	0	981.02
7/24/05 16:00	44.9	3	4.2	1.2	8.5	0.9	161.3	12.6	347.1	1.25	0	980.72
7/24/05 17:00	45.6	2.7	4	1.3	6.8	0.8	171.9	11.1	297.8	1.07	0	980.43
7/24/05 18:00	47.3	2.1	3.3	1.2	6.1	0.7	173.1	10.5	145.5	0.52	0	980.36
7/24/05 19:00	55.7	0.6	2	1.4	4.3	0.3	162.3	7.4	9.3	0.03	0	980.5
7/24/05 20:00	62.1	0.5	2	1.5	3.7	0.2	173.8	7.1	0	0	0	980.84
7/24/05 21:00	58.4	1.7	3.1	1.4	4.2	0.4	183.2	7.5	0	0	0	981.23
7/24/05 22:00	59.9	1.7	3.1	1.3	5.3	0.4	182.4	7.4	0	0	0	981.58
7/24/05 23:00	64.1	1.2	2.4	1.2	4.8	0.4	157.1	8.4	0	0	0	981.53
7/25/05 0:00	66.1	1.7	2.9	1.1	4.8	0.4	160.2	8.5	0	0	0	981.16
7/25/05 1:00	69.5	1.1	2.4	1.3	4.8	0.3	175.2	7.5	0	0	0	980.88
7/25/05 2:00	69.2	1.5	2.8	1.3	6.9	0.4	165.4	8.1	0	0	0	980.49
7/25/05 3:00	65.1	2.4	3.7	1.4	6.8	0.6	170	9.8	0	0	0	980.35
7/25/05 4:00	66.7	2.5	3.9	1.4	6.4	0.7	175.4	9.2	0	0	0	980.56
7/25/05 5:00	67.4	2.8	4.4	1.6	7	0.7	180.8	8.5	14.3	0.05	0	980.84
7/25/05 6:00	68.4	2.6	3.8	1.2	6.3	0.6	182.4	9.2	134.7	0.48	0	981.15
7/25/05 7:00	66.8	2.8	4	1.1	6.8	0.7	163.5	11	334.9	1.21	0	981.51
7/25/05 8:00	62.3	3	4.1	1.2	7.2	1	165.8	12.8	557.8	2.01	0	981.7
7/25/05 9:00	60	3.2	4.2	1.1	8.2	0.8	152.8	12.2	588.5	2.12	0	981.34
7/25/05 10:00	57.2	3.7	5	1.3	8.6	1	158.9	12.7	840.5	3.03	0	981.05
7/25/05 11:00	51.7	4.1	5.5	1.4	9.5	1.2	156.1	13.7	908.4	3.27	0	980.47
7/25/05 12:00	46.7	4.5	6.1	1.6	11	1.3	164.7	14	912.6	3.29	0	979.99
7/25/05 13:00	43.9	4.6	6.3	1.7	11.7	1.3	162	13.4	824.6	2.97	0	979.53
7/25/05 14:00	41.6	5.1	7.2	2	19	1.5	169	12.9	805.8	2.9	0	979.03
7/25/05 15:00	41	4.6	6.4	1.8	11.1	1.3	169.9	12.3	672.8	2.42	0	978.59
7/25/05 16:00	38.8	4.8	6.8	2	12.8	1.4	177.3	11.4	372.8	1.34	0	978.18
7/25/05 17:00	37	4.4	6.2	1.8	10.9	1.2	172.1	11.6	304.3	1.1	0	977.59
7/25/05 18:00	38	4	5.7	1.8	11.1	1.1	173.5	10.8	145	0.52	0	977.3
7/25/05 19:00	45.8	2	3.3	1.3	6.9	0.5	165.9	9	9	0.03	0	976.99
7/25/05 20:00	53.7	1.8	3.1	1.3	5	0.4	165.7	8.2	0	0	0	976.98
7/25/05 21:00	55.8	2.4	3.7	1.3	6.6	0.6	165.3	8.7	0	0	0	977.65
7/25/05 22:00	51.7	3.2	4.5	1.3	7.4	0.8	164.9	10.1	0	0	0	977.72
7/25/05 23:00	46.7	3.3	5	1.7	8.9	0.9	170.3	10.2	0	0	0	977.89

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
7/26/05 12:00	0.03786							0.002	0.035	0.037	33.4	35.00	41	
7/26/05 13:00	0.04049							0.002	0.03	0.032	34.6	35.00	40	
7/26/05 14:00	0.03617						0.041	0	0.021	0.021	31.4	34.44	43	
7/26/05 15:00	0.03754						0.041	0	0.015	0.015	27	34.44	44	
7/26/05 16:00	0.03877						0.044	0.001	0.014	0.014	28	33.33	44	
7/26/05 17:00	0.04776						0.038	0	0.012	0.012	26.7	31.11	52	
7/26/05 18:00	0.02307						0.033	0	0.011	0.011	30.3	28.33	65	
7/26/05 19:00	0.03611						0.03	0	0.011	0.011	27.3	27.22	69	
7/26/05 20:00	0.03372						0.026	0.001	0.009	0.01	19.4	25.56	77	
7/26/05 21:00	0.02896						0.019	0	0.008	0.009	10.9	23.33	85	
7/26/05 22:00	0.02253						0.016	0	0.009	0.009	8.6	22.22	85	
7/26/05 23:00	0.02019						0.019	0	0.008	0.008	10.4	21.11	88	
7/27/05 0:00	0.02226						0.02	0	0.008	0.007	6.7	20.56	86	
7/27/05 1:00	0.0221						0.02	0	0.007	0.006	7.3	20.00	88	
7/27/05 2:00	0.02179						0.019	0	0.007	0.007	11.9	20.00	81	
7/27/05 3:00	0.02131						0.016	0	0.009	0.009	10.9	20.00	78	
7/27/05 4:00	0.01699						0.014	0	0.007	0.008	10.6	20.00	79	
7/27/05 5:00	0.01535						0.012	0.001	0.008	0.009	11.6	20.00	78	
7/27/05 6:00	0.0129						0.012	0.002	0.008	0.01	10.4	19.44	76	
7/27/05 7:00	0.01205						0.013	0.004	0.007	0.011	10.7	18.89	75	
7/27/05 8:00	0.01205						0.015	0.005	0.006	0.011	9.5	19.44	70	
7/27/05 9:00	0.01229						0.02	0.004	0.006	0.011	10.8	21.67	62	
7/27/05 10:00	0.01811						0.027	0.003	0.006	0.009	11.2	23.33	53	
7/27/05 11:00	0.02609						0.032	0.003	0.006	0.009	11.3	24.44	45	
7/27/05 12:00	0.03347						0.038	0.002	0.005	0.007	9.5	25.56	39	
7/27/05 13:00	0.03901	28.9	5.2	4	225	12.1	0.039	0.002	0.006	0.009	11.6	26.11	36	
7/27/05 14:00	0.03955	29.2	3.9	3.1	225	9.8	0.041	0.002	0.007	0.01	6.2	26.11	36	
7/27/05 15:00	0.04041	27.5	3.7	2.7	22.5	9.8	0.041	0.003	0.008	0.01	8.5	26.11	37	
7/27/05 16:00	0.04352	26.3	1.8	1.8	225	7.2	0.045	0.001	0.007	0.008	10.3	27.22	33	
7/27/05 17:00	0.0462	26.8	1.4	1.8	225	7.2	0.046	0.001	0.007	0.008	10.8	27.78	33	
7/27/05 18:00	0.04516	26.2	1.4	1.8	202.5	7.6	0.045	0.001	0.007	0.008	11.5	27.22	36	
7/27/05 19:00	0.04633	24.9	1.6	1.8	202.5	5.4	0.037	0.001	0.013	0.014	13.3	25.56	41	
7/27/05 20:00	0.05196	23.3	1.3	1.8	202.5	4.5	0.016	0.003	0.026	0.029	13.3	22.22	54	
7/27/05 21:00	0.04604	22.6	0.9	3.1	0	7.6	0.014	0.001	0.021	0.022	12	19.44	69	
7/27/05 22:00	0.03827	21.5	0.6	1.3	247.5	3.6	0.005	0.012	0.027	0.039	14.3	17.78	76	
7/27/05 23:00	0.03989	21.1	0.4	1.3	225	4	0.001	0.015	0.024	0.038	16.2	16.67	82	
7/28/05 0:00	0.03939	20.7	0.9	0.9	0	6.7	0.002	0.006	0.018	0.024	15.2	16.11	86	
7/28/05 1:00	0.0425	20.4	0.3	4.5	22.5	8	0.004	0.001	0.014	0.015	14.9	15.56	88	
7/28/05 2:00	0.04019	19.8	0.8	1.3	0	5.8	0.014	0	0.011	0.011	12.5	16.11	86	
7/28/05 3:00	0.03771	18.8	0.9	0.9	225	2.2	0.014	0	0.009	0.009	12.7	16.11	83	
7/28/05 4:00	0.03758	18.2	0.8	0.9	225	2.2	0.009	0.003	0.009	0.012	12.7	15.00	90	
7/28/05 5:00	0.03673	18.3	1	1.8	22.5	4.9	0.001	0.022	0.017	0.039	14	14.44	91	
7/28/05 6:00	0.03405	18.3	0.8	1.8	22.5	5.4	0.013	0.009	0.015	0.024	14	17.22	78	
7/28/05 7:00	0.03093	19.3	2.4	2.2	22.5	6.7	0.022	0.01	0.01	0.019	11.3	19.44	69	
7/28/05 8:00	0.02979	22.1	3	1.3	22.5	6.7	0.025	0.003	0.008	0.011	12.4	22.22	62	
7/28/05 9:00	0.02894	25.4	4.2	1.8	22.5	4.9	0.03	0.006	0.013	0.018	12.2	25.00	50	
7/28/05 10:00	0.03415	28.9	4	1.3	22.5	4.9	0.043	0.002	0.007	0.009	11	26.11	42	
7/28/05 11:00	0.03813	32.1	4.8	1.3	67.5	4.9	0.05	0.001	0.005	0.006	9.8	27.22	35	
7/28/05 12:00	0.04691	35.1	4.1	1.3	67.5	5.4	0.054	0	0.004	0.004	10.7	28.33	33	
7/28/05 13:00	0.0537	37.3	2.5	0.9	67.5	5.4	0.055	0.001	0.005	0.005	11.1	29.44	30	
7/28/05 14:00	0.05542	38.6	2.4	0.9	45	4	0.06	0	0.004	0.004	10	30.00	29	
7/28/05 15:00	0.05754	36.4	4.1	0.9	0	4.9	0.06	0	0.005	0.005	10.9	30.56	27	
7/28/05 16:00	0.06177	33.2	2.6	0.9	45	5.4	0.062	0	0.006	0.007	11.7	31.11	25	
7/28/05 17:00	0.06091	31.1	2.2	0.9	0	3.6	0.061	0	0.007	0.008	12.7	31.11	26	
7/28/05 18:00	0.06169	29.1	1.6	0.9	0	3.1	0.055	0	0.01	0.01	12.8	30.56	26	
7/28/05 19:00	0.06033	27.5	1.6	0.9	67.5	4.9	0.022	0.003	0.032	0.035	14.5	26.67	42	
7/28/05 20:00	0.05949	25.9	2	0.9	112.5	4.9	0.015	0.006	0.033	0.04	14.1	23.33	52	
7/28/05 21:00	0.06075	24.5	1.1	1.8	112.5	4.9	0.002	0.022	0.036	0.059	14.9	21.11	65	
7/28/05 22:00	0.05673	23.9	0.9	1.8	180	4.9	0	0.036	0.032	0.068	16.8	19.44	74	
7/28/05 23:00	0.05435	23.9	1	0.9	180	2.7	0	0.024	0.027	0.051	21.2	17.78	80	
7/29/05 0:00	0.0666	23.2	1	0.4	90	1.8	0	0.016	0.022	0.038	17.1	17.22	85	
7/29/05 1:00	0.05696	22.6	1.1	0.4	180	2.2	0	0.015	0.017	0.032	16.2	16.11	88	
7/29/05 2:00	0.04677	22.6	0.6	0.9	202.5	1.8	0	0.022	0.013	0.035	20.3	15.56	90	
7/29/05 3:00	0.07296	22	0.7	0.4	202.5	1.3	0	0.024	0.011	0.034	23.1	15.56	91	
7/29/05 4:00	0.06198	21.4	1.3	0.4	202.5	1.8	0	0.021	0.009	0.03	16.3	15.00	91	
7/29/05 5:00	0.04416	20.3	0.5	0	202.5	0.9	0	0.029	0.008	0.037	16.3	14.44	92	
7/29/05 6:00	0.03695	20.4	0.6	0	202.5	1.3	0.001	0.036	0.011	0.047	18.1	16.67	86	
7/29/05 7:00	0.04837	22.4	3.5	0.4	0	1.3	0.012	0.016	0.02	0.037	20.6	22.22	64	
7/29/05 8:00	0.04848	26.1	3.5	0.4	112.5	1.3	0.022	0.015	0.03	0.045	23.5	26.11	48	
7/29/05 9:00	0.01743	29.8	4.7	0.4	135	1.8	0.043	0.006	0.024	0.03	18.8	27.78	40	
7/29/05 10:00	0.03773	34.1	3.8	0.4	315	2.2	0.064	0.002	0.016	0.017	18.7	29.44	36	
7/29/05 11:00	0.05832	37.7	3.6	0.4	292.5	3.1	0.071	0	0.009	0.009	14.9	30.56	32	
7/29/05 12:00	0.08048	39.2	4.1	0.9	225	4.9	0.084	0	0.009	0.01	16.8	31.11	29	
7/29/05 13:00	0.1049	39.8	3.5	1.3	202.5	4	0.091	0	0.009	0.009	18.9	31.67	28	
7/29/05 14:00	0.1132	41.1	2.3	0.9	202.5	3.1	0.091	0	0.009	0.009	19.6	32.78	26	
7/29/05 15:00	0.1107	38.7	4.3	0.9	202.5	3.6	0.087	0.001	0.009	0.01	18.4	33.33	24	
7/29/05 16:00	0.09952	35.9	2.7	0.9	67.5	3.1	0.08	0.003	0.012	0.016	20.7	33.33	23	
7/29/05 17:00	0.1016	32.9	3.1	1.3	202.5	4.5	0.081	0	0.008	0.008	19.5	33.33	26	
7/29/05 18:00	0.08613	30.6	1.8	1.8	202.5	6.3	0.065	0	0.008	0.008	14	32.22	25	
7/29/05 19:00	0.08792	28.9	2	1.8	180	5.8	0.063	0	0.017	0.017	18.6	29.44	37	
7/29/05 20:00	0.09061	27.2	1.2	2.2	135	5.4	0.03	0.002	0.042	0.043	22.4	26.11	49	
7/29/05 21:00	0.1004	26.4	0.7	1.8	112.5	5.8	0.002	0.016	0.057	0.073	25.9	23.33	63	
7/29/05 22:00	0.09494	26.3	0.8	2.2	180	7.2	0.004	0.015	0.041	0.056	23.9	21.67	70	
7/29/05 23:00	0.09807	26.3	0.3	2.2	157.5	4.5	0	0.038	0.036	0.075	22.8	20.00	77	
7/30/05 0:00	0.104	25.8	0.9	2.2	180	4.5	0	0.028	0.031	0.059	23.5	19.44	81	
7/30/05 1:00	0.08935	25.6	0.6	2.2	180	4.5	0	0.014	0.025	0.039	23.8	18.89	83	
7/30/05 2:00	0.08567	25.5	0.8	3.1	112.5	4.9	0	0.011	0.022	0.033	23.6	18.33	86	
7/30/05 3:00	0.08094	25	0.5	2.7	112.5	4	0.002	0.001	0.02	0.021	25.6	17.78	86	
7/30/05 4:00	0.07714	24.2	1.3	2.2	112.5	4	0.004	0.001	0.017	0.019	25.9	17.22	87	
7/30/05 5:00	0.08284	23.3	0.5	1.8	112.5	4.5	0.002	0.006	0.016	0.022	23.7	17.22	88	

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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _W (°C)	T _O (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/26/05 12:00	224	2.2352	35	24.5	20	41	5.14	240	984.42	32.2	31.6	-0.7
7/26/05 13:00	254	1.78816	35	24.5	20	41	5.14	250	984.42	32	31.7	-0.4
7/26/05 14:00	263	1.78816	35	24.5	20	41	5.14	260	984.42	32	31.7	-0.3
7/26/05 15:00	269	2.2352	34.4	24.7	20.6	44	5.66	290	984.42	31.5	31.3	-0.2
7/26/05 16:00	290	3.12928	33.3	24.4	20.6	47	5.14	330	984.42	29.6	29.4	-0.2
7/26/05 17:00	173	2.68224	30.6	23.7	20.6	55	4.63	350	985.10	27.7	27.5	-0.2
7/26/05 18:00	126	2.68224	28.3	23.4	21.1	65	6.69	360	985.78	26.2	26.2	0
7/26/05 19:00	84	3.57632	26.7	22.6	20.6	69	7.72	360	987.13	24.9	24.9	0
7/26/05 20:00	58	3.57632	24.4	22.6	21.7	85	5.14	360	988.49	23.1	23.1	0
7/26/05 21:00	65	3.57632	22.8	21.3	20.6	87	6.17	10	989.50	22.2	22.2	0
7/26/05 22:00	51	3.12928	21.7	20.6	20	90	6.17	10	989.84	20.7	20.8	0.1
7/26/05 23:00	43	4.02336	21.1	19.7	18.9	87	8.23	20	989.84	19.8	20	0.1
7/27/05 0:00	46	4.02336	20.6	18.8	17.8	84	6.69	20	990.18	19.6	19.7	0.1
7/27/05 1:00	36	3.57632	20	18.6	17.8	87	5.66	20	990.52	19.2	19.4	0.3
7/27/05 2:00	35	4.02336	20	18	16.7	81	5.66	20	991.53	19.2	19.5	0.2
7/27/05 3:00	40	3.12928	20	17.6	16.1	78	5.66	30	992.21	19.1	19.3	0.2
7/27/05 4:00	43	2.68224	20	17.6	16.1	78	5.14	30	992.55	19	19.1	0.2
7/27/05 5:00	64	2.68224	20	17.3	15.6	76	5.66	360	992.55	18.2	18.3	0.1
7/27/05 6:00	69	3.57632	18.9	16.6	15	78	5.66	10	993.23	17.5	17.5	0
7/27/05 7:00	50	4.4704	19.4	16.8	15	76	7.20	20	993.23	17.5	17.3	-0.2
7/27/05 8:00	40	4.4704	20	16.7	14.4	70	4.12	30	993.57	19.8	18.9	-0.8
7/27/05 9:00	50	4.02336	22.8	17.7	14.4	59	5.66	40	992.89	21.3	20.3	-1.1
7/27/05 10:00	48	4.91744	25	17.9	13.3	48	7.72	20	992.89	22.9	21.7	-1.2
7/27/05 11:00	43	4.4704	26.7	18	12.2	41	6.17	10	992.55	24.3	23	-1.3
7/27/05 12:00	51	4.91744	27.2	17.6	11.1	37	8.75	20	992.21	24.2	23.2	-1
7/27/05 13:00	48	4.02336	27.8	17.6	10.6	34	4.12	60	992.55	24.6	23.7	-0.9
7/27/05 14:00	68	3.57632	27.8	18.3	12.2	38	5.14	360	991.87	25.3	24.4	-0.9
7/27/05 15:00	61	3.12928	27.2	17.6	11.1	37	5.14	20	991.53	26.3	25.4	-1
7/27/05 16:00	57	2.68224	28.3	18	11.1	34	4.12	10	991.20	26.8	25.8	-0.9
7/27/05 17:00	48	3.12928	27.8	17.3	10	33	4.63	30	991.20	26	25.5	-0.5
7/27/05 18:00	43	3.12928	26.7	17.2	10.6	37	4.63	50	991.20	24.8	24.9	0
7/27/05 19:00	38	2.2352	25	16.8	11.1	42	2.57	40	991.53	22	23.4	1.4
7/27/05 20:00	123	0.44704	23.3	16.5	11.7	48	1.54	60	992.21	21.2	22.5	1.3
7/27/05 21:00	217	0	20	15.8	12.8	63	0.00	0	992.55	20.3	21.3	1
7/27/05 22:00	119	0	18.3	15.4	13.3	73	2.06	350	992.55	19.4	20.5	1.2
7/27/05 23:00	58	0.44704	17.2	15.3	13.9	81	2.57	340	992.55	18.8	20	1.2
7/28/05 0:00	174	0	17.2	15.3	13.9	81	2.06	330	992.55	18.5	19.5	1.1
7/28/05 1:00	204	0	15.6	14.3	13.3	86	2.57	330	992.89	18.1	18.9	0.9
7/28/05 2:00	160	0.44704	16.1	14.5	13.3	84	1.54	330	993.23	17.5	18.4	0.9
7/28/05 3:00	102	0.44704	15	14	13.3	90	2.57	340	992.89	17	17.9	0.9
7/28/05 4:00	226	0	15	14	13.3	90	1.54	340	993.23	17	18	0.9
7/28/05 5:00	143	0	15	13.8	12.8	87	2.06	350	993.57	16.9	17.9	1
7/28/05 6:00	56	1.34112	17.2	15.3	13.9	81	2.57	350	993.90	18.5	18.5	0
7/28/05 7:00	42	1.78816	20	17	15	73	2.57	350	994.24	20.2	19.6	-0.6
7/28/05 8:00	64	1.34112	23.9	18.1	14.4	55	1.54		994.24	22.4	21.4	-1
7/28/05 9:00	90	1.34112	26.1	18.3	13.3	45	2.57	360	994.24	24.7	23.4	-1.3
7/28/05 10:00	99	2.2352							994.24	25.8	24.5	-1.4
7/28/05 11:00	90	1.78816	27.2	18.7	13.3	42	3.09	90	993.90	26.8	25.4	-1.3
7/28/05 12:00	140	1.78816	29.4	18.4	11.1	32	3.60	320	993.23	27.7	26.4	-1.3
7/28/05 13:00	115	1.78816	30	18.6	11.1	31	4.12	310	992.89	28.7	27.3	-1.4
7/28/05 14:00	152	1.78816							992.55	29.3	28.1	-1.3
7/28/05 15:00	126	1.78816	31.1	18.5	10	27	3.60	330	992.21	29.9	28.8	-1.1
7/28/05 16:00	92	1.78816	31.1	18.5	10	27	3.09	310	991.87	29.9	29	-1
7/28/05 17:00	62	1.78816	31.1	18.2	9.4	26	2.06	320	991.53	29.5	29	-0.6
7/28/05 18:00	60	1.34112	28.9	18.2	11.1	33	2.57	360	991.53	29.3	29.3	0
7/28/05 19:00	103	0	26.1	17.6	12.2	42	2.57	130	991.87	24.2	26.2	2.1
7/28/05 20:00	177	0	25.6	17.6	12.2	43	2.06	130	992.21	21.9	25.4	3.5
7/28/05 21:00	185	0	24.4	17.5	12.8	48	1.54	100	992.55	22	24.7	2.7
7/28/05 22:00	169	0	21.7	17.3	14.4	63	0.00	0	992.55	20.3	24.5	4.1
7/28/05 23:00	198	0	21.7	17	13.9	61	0.00	0	992.89	19.7	23.5	3.7
7/29/05 0:00	255	0	19.4	17.1	15.6	79	0.00	0	992.89	19.8	23.5	3.7
7/29/05 1:00	227	0	18.3	16.7	15.6	84	1.54	320	992.89	21	23.1	2.1
7/29/05 2:00	121	0	17.8	16.1	15	84	0.00	0	993.23	20	22.5	2.5
7/29/05 3:00	179	0	17.2	15.3	13.9	81	1.54	350	993.23	17.4	21.5	4.1
7/29/05 4:00	130	0	16.1	15.1	14.4	90	2.06	320	993.57	16.5	18.8	2.3
7/29/05 5:00	193	0	16.1	14.8	13.9	87	1.54	320	994.58	17.5	20.8	3.3
7/29/05 6:00	189	0	19.4	17.1	15.6	79	0.00	0	994.92	21.4	21.8	0.4
7/29/05 7:00	126	0.44704	22.8	18	15	62	0.00	0	995.26	24.7	24	-0.6
7/29/05 8:00	145	0.44704	26.7	18.8	13.9	45	1.54	210	995.26	26.9	25.8	-1
7/29/05 9:00	132	1.34112	28.9	19.3	13.3	38	2.06		995.26	27.9	26.7	-1.2
7/29/05 10:00	133	1.34112	30.6	19.6	12.8	34	0.00	0	995.26	29.1	27.7	-1.4
7/29/05 11:00	133	1.78816	30.6	20.6	12.8	34	2.57	230	994.92	29.9	28.6	-1.3
7/29/05 12:00	65	2.68224	32.8	19.3	10.6	26	3.09	50	994.24	30.6	29.3	-1.3
7/29/05 13:00	60	2.2352	32.2	19.6	11.7	28	2.06	360	993.90	31.7	30.4	-1.3
7/29/05 14:00	78	2.68224	33.9	19.4	10	23	3.60	50	993.23	32.4	31.1	-1.3
7/29/05 15:00	65	2.2352	33.9	19.4	10	23	3.60	20	992.55	32.4	31.3	-1.1
7/29/05 16:00	76	2.2352	33.3	19.9	11.7	27	3.60	110	992.55	32.7	32	-0.8
7/29/05 17:00	98	1.78816	32.8	18.6	8.9	23	3.60	100	992.21	32.2	31.7	-0.6
7/29/05 18:00	96	1.34112	30.6	19.3	12.2	32	3.60	130	992.55	30.2	30.3	0.1
7/29/05 19:00	150	1.34112	27.8	19.4	14.4	44	2.57	140	992.55	27	28.4	1.4
7/29/05 20:00	159	0	27.2	18.7	13.3	42	1.54	120	992.89	25.6	27.2	1.7
7/29/05 21:00	158	0	25.6	18.1	13.3	47	2.06	150	993.23	25.2	27	1.8
7/29/05 22:00	153	0	23.3	17.9	14.4	57	0.00	0	993.57	23.9	26.8	2.9
7/29/05 23:00	172	0	24.4	18.3	14.4	54	0.00	0	993.57	24.1	26.3	2.2
7/30/05 0:00	167	0	21.1	18	16.1	73	1.54	340	993.57	23	25.5	2.6
7/30/05 1:00	153	0	20.6	17.6	15.6	73	1.54	340	993.90	19.7	24.6	5
7/30/05 2:00	153	0	18.9	16.9	15.6	81	1.54	360	993.57	19.6	23.6	4
7/30/05 3:00	164	0	20	17.3	15.6	76	0.00	0	993.90	18.8	20.6	1.8
7/30/05 4:00	170	0	19.4	17.1	15.6	79	0.00	0	994.24	19	22.1	3.1
7/30/05 5:00	141	0	18.9	17.2	16.1	84	0.00	0	994.92	19.5	22.2	2.7
7/30/05 6:00	148	0.44704	21.7	18.6	16.7	73	2.06	110	995.26	22.5	24.4	1.9
7/30/05 7:00	92	0.44704	25.6	20.2	17.2	60	2.57	180	995.26	24.3	23.6	-0.6
7/30/05 8:00	187	0.89408	28.3	20.8	16.7	49	3.09	180	995.60	26.5	25.5	-1
7/30/05 9:00	192	1.34112	30	21.3	16.7	45	2.06		995.26	28.5	27.4	-1.2
7/30/05 10:00	194	1.34112	31.7	21.3	15.6	38	3.09		995.26	30.6	29.2	-1.5
7/30/05 11:00	180	1.34112	32.8	21.6	15.6	35	3.60	180	994.92	31.7		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
7/26/05 12:00	50.8	3.6	4.8	1.3	8.8	1.1	207.3	12.9	692.3	2.49	0	978.13
7/26/05 13:00	52	2.7	3.6	1	7.6	0.9	205.6	12.4	433.9	1.56	0	978.12
7/26/05 14:00	54	2.1	2.9	0.7	5.4	0.5	205.1	10.1	355.8	1.28	0	978.16
7/26/05 15:00	54.6	1.4	2.1	0.7	4.5	0.5	252.4	14.4	256.7	0.92	0	978.24
7/26/05 16:00	60	2	3	1	7	0.9	299.4	15.2	189.7	0.68	0	978.43
7/26/05 17:00	66.6	2.8	4.1	1.3	8.2	0.9	266.1	12.6	151.9	0.55	0	978.84
7/26/05 18:00	73.1	3.1	4.4	1.4	8.6	1.1	180.8	12.4	61.3	0.22	0	979.45
7/26/05 19:00	78.3	3.4	5	1.6	11	1.2	122.8	13	5	0.02	0	980.46
7/26/05 20:00	82.6	3.3	4.6	1.3	8.5	1.1	12	13.6	0	0	0	981.75
7/26/05 21:00	81.8	3.3	4.7	1.4	8.4	1.1	14.9	13.5	0	0	0	982.67
7/26/05 22:00	87.3	3	4.3	1.3	8.2	0.9	15.5	12.2	0	0	0.02	983.46
7/26/05 23:00	90.1	3.4	4.7	1.3	8.3	1	16.8	12.1	0	0	0	983.78
7/27/05 0:00	88	3.6	5.1	1.5	9.6	1.1	16.4	13.4	0	0	0	983.8
7/27/05 1:00	81.9	4.5	6.1	1.6	10.7	1.4	17.1	12.9	0	0	0.01	983.92
7/27/05 2:00	80.8	3.9	5.4	1.5	10.1	1.3	18.8	13.8	0	0	0	984.41
7/27/05 3:00	81.1	3	4.2	1.2	9.1	1	18.1	14.3	0	0	0	985.18
7/27/05 4:00	78.5	3	4.2	1.2	8.1	1	16	13	0	0	0	985.64
7/27/05 5:00	78.3	2.8	3.9	1.1	7.4	0.9	14	13.3	5.1	0.02	0	986.4
7/27/05 6:00	80	3.1	4.4	1.3	7.9	0.9	10.8	12.8	84.8	0.31	0	986.91
7/27/05 7:00	79.3	3.1	4.4	1.3	7.3	1	13.3	12.7	150.1	0.54	0	987.13
7/27/05 8:00	69.7	3.5	4.8	1.3	8.7	1.1	16.1	14.2	502.8	1.81	0	987.01
7/27/05 9:00	62.9	3.7	5	1.3	8.8	1.2	16.5	14.5	662.3	2.38	0	986.9
7/27/05 10:00	55.2	3.5	4.7	1.2	8.6	1.2	21.5	15.3	825.6	2.97	0	986.65
7/27/05 11:00	48.5	3.6	4.8	1.2	9	1.2	21.8	16	960.9	3.46	0	986.47
7/27/05 12:00	48.2	3.2	4.4	1.2	8.5	1	18.5	15.8	707	2.55	0	986.13
7/27/05 13:00	46.5	2.9	4	1.1	7.4	0.9	15.5	15.6	640.8	2.31	0	985.96
7/27/05 14:00	44.1	2.5	3.5	1	6.8	1	33	17.8	694.8	2.5	0	985.66
7/27/05 15:00	40.1	2.3	3.1	0.8	6.4	0.9	29.4	18.1	699	2.52	0	985.21
7/27/05 16:00	39.1	2.1	2.9	0.9	5.8	0.7	17.6	16.6	565.3	2.03	0	984.73
7/27/05 17:00	39.1	2.2	3.1	1	6.6	0.7	44.5	13.2	356.8	1.28	0	984.58
7/27/05 18:00	42.5	0.9	1.8	1	4	0.4	19.5	11.9	159.3	0.57	0	984.67
7/27/05 19:00	52.8	0.5	1.8	1.3	2.9	0.3	66.5	8.6	8.2	0.03	0	984.75
7/27/05 20:00	56	0.7	1.8	1.1	3.5	0.4	20.3	11.1	0	0	0	985.09
7/27/05 21:00	61.3	0.7	1.7	1	3.1	0.4	29	13.8	0	0	0	985.68
7/27/05 22:00	66.3	0.4	1.5	1	2.9	0.3	23	11.3	0	0	0	985.92
7/27/05 23:00	69.4	0.6	1.7	1.1	3.4	0.4	21.6	11.7	0	0	0	986.12
7/28/05 0:00	71.4	0.9	2	1.1	3.9	0.4	13.8	12.3	0	0	0	986.17
7/28/05 1:00	72.8	1.1	2.1	1	4	0.5	12	12.2	0	0	0	986.22
7/28/05 2:00	75.1	0.9	2	1.1	3.4	0.4	10.3	11.6	0	0	0	986.31
7/28/05 3:00	76.4	1	2.1	1.1	4.3	0.4	100.8	12.1	0	0	0	986.43
7/28/05 4:00	74.8	1.3	2.2	0.9	3.8	0.4	27.3	10.9	0	0	0	986.54
7/28/05 5:00	75.3	1.3	2.3	1	3.9	0.4	23.8	9.7	12.3	0.04	0	986.87
7/28/05 6:00	71.1	1.5	2.2	0.8	4	0.4	28.9	11.6	152.8	0.55	0	987.13
7/28/05 7:00	65.3	1.8	2.4	0.6	4.1	0.5	48.3	13.4	348.1	1.25	0	987.47
7/28/05 8:00	60.4	1.4	2.1	0.6	3.7	0.5	57.5	18.4	542.6	1.95	0	987.61
7/28/05 9:00	49.7	1.3	1.9	0.6	4.2	0.7	63	21.5	722.5	2.6	0	987.73
7/28/05 10:00	44.3	1.7	2.3	0.6	5.4	0.8	91.8	18.6	858.7	3.09	0	987.76
7/28/05 11:00	40.8	1.6	2.2	0.6	5.7	0.7	107.1	28.5	938.3	3.38	0	987.48
7/28/05 12:00	36.8	1.5	2	0.5	4.3	0.7	219.6	28.1	960.4	3.46	0	987.21
7/28/05 13:00	33	1.3	1.8	0.5	4.4	0.7	101.1	30.8	938	3.38	0	986.62
7/28/05 14:00	31.6	1.3	1.7	0.5	4.8	0.6	115.6	27.4	856.6	3.08	0	986.1
7/28/05 15:00	29.3	1.2	1.7	0.5	3.9	0.6	147.2	28.6	724	2.61	0	985.62
7/28/05 16:00	29.1	1.2	1.8	0.6	4.6	0.6	169.8	24.7	547.1	1.97	0	985.37
7/28/05 17:00	30.1	1.2	1.9	0.7	3.6	0.5	248.9	16.7	354.5	1.28	0	984.96
7/28/05 18:00	34.5	0.4	1.5	1.1	2.5	0.3	313.4	10	157.8	0.57	0	984.95
7/28/05 19:00	47.7	0	1	1	1.8	0.1	233	5.8	8.4	0.03	0	985.04
7/28/05 20:00	54.1	0.2	1.3	1.2	3.9	0.3	50.8	12.1	0	0	0	985.34
7/28/05 21:00	54.4	0.3	1.4	1.2	2.5	0.2	65	7.1	0	0	0	985.85
7/28/05 22:00	60.5	0	1.2	1.2	2	0.1	50.4	3.8	0	0	0	985.91
7/28/05 23:00	63.3	0.1	0.9	0.8	1.7	0.1	94.9	6.5	0	0	0	986.08
7/29/05 0:00	64.6	0.2	1.3	1.1	1.9	0.1	107	5.6	0	0	0	986.24
7/29/05 1:00	56.7	0	1.1	1.1	1.8	0.1	119.8	8	0	0	0	986.26
7/29/05 2:00	59.4	0	0.7	0.7	1.3	0.1	144.4	6.6	0	0	0	986.26
7/29/05 3:00	72.4	0.1	0.6	0.4	1.2	0.1	190.4	3	0	0	0	986.43
7/29/05 4:00	79.3	0.1	1.3	1.2	2.2	0.2	55.3	7.8	0	0	0	986.83
7/29/05 5:00	76.8	0.2	1.3	1.1	2	0.1	72.8	4.6	11.2	0.04	0	987.44
7/29/05 6:00	66.2	0	1	1	1.7	0.2	103.6	9.2	146.3	0.53	0	987.92
7/29/05 7:00	56.3	0.2	0.7	0.5	1.9	0.3	118.2	16.6	340.5	1.23	0	988.25
7/29/05 8:00	48.3	0.2	0.6	0.4	2.4	0.3	157.3	26.7	533.3	1.92	0	988.57
7/29/05 9:00	44.5	0.6	1	0.4	3.4	0.5	98.3	30.4	708	2.55	0	988.78
7/29/05 10:00	40.5	1	1.4	0.4	3.4	0.6	69.6	31.5	839.4	3.02	0	988.8
7/29/05 11:00	35.3	1.3	1.8	0.5	4	0.7	58.7	27.6	923.3	3.32	0	988.59
7/29/05 12:00	32.5	1.4	1.8	0.4	5	0.7	156.9	33.1	946.3	3.41	0	988.22
7/29/05 13:00	29.3	1.3	1.8	0.5	5	0.7	59.6	30.2	919.9	3.31	0	987.63
7/29/05 14:00	26.8	1.5	2.1	0.6	5.7	0.8	131.3	25.3	842.3	3.03	0	987.24
7/29/05 15:00	27.5	1.4	2.1	0.6	5.6	0.8	104.8	24	705.7	2.54	0	986.58
7/29/05 16:00	26.5	0.8	1.2	0.4	3.4	0.6	116.9	29.1	529.2	1.91	0	986.1
7/29/05 17:00	27.7	0.7	1.4	0.6	4.7	0.5	127.8	24.9	336.2	1.21	0	985.78
7/29/05 18:00	33	0.8	1.8	1	3.4	0.4	123.9	10.7	142	0.51	0	985.88
7/29/05 19:00	38.6	0.4	1.8	1.4	3	0.3	104.8	8.6	8.2	0.03	0	985.83
7/29/05 20:00	39.8	0.5	1.9	1.4	4.1	0.3	118.3	7.6	0	0	0	986.35
7/29/05 21:00	43.4	0.4	1.9	1.5	2.9	0.2	146.1	7.8	0	0	0	986.61
7/29/05 22:00	49.6	0	1.5	1.5	2.5	0.2	154.2	7.4	0	0	0	986.92
7/29/05 23:00	50.2	0.2	1.8	1.6	2.8	0.3	154.2	7.2	0	0	0	987.12
7/30/05 0:00	53.1	0	1.3	1.2	2.4	0.2	179.1	6.2	0	0	0	987.22
7/30/05 1:00	70.1	0.1	0.6	0.5	0.9	0.1	220.3	4.5	0	0	0	987.41
7/30/05 2:00	71.4	0	0.5	0.4	2	0.1	264.8	7.8	0	0	0	987.19
7/30/05 3:00	75.3	0.4	1.8	1.4	3.8	0.3	57.9	7.4	0	0	0	987.19
7/30/05 4:00	75.7	0.3	1.2	1	2.7	0.2	95.3	5.8	0	0	0	987.58
7/30/05 5:00	76.5	0.1	0.6	0.5	1.2	0.1	174.1	7	10.4	0.04	0	987.98
7/30/05 6:00	73	0.2	0.4	0.2	3.5	0.1	94.4	9	132.8	0.48	0	988.27
7/30/05 7:00	63.2	1.4	2.1	0.7	4.1	0.5	146.3	13.1	320.8	1.16	0	988.69
7/30/05 8:00	57.5	1.1	1.7	0.5	3.9	0.4	148	16.5	512.3	1.84	0	988.91
7/30/05 9:00	51.4	1.5	2	0.5	4.7	0.5	157.5	16.8	686.8	2.47	0	989
7/30/05 10:00	43.9	1.5	2	0.5	4.1	0.6	182.5	21.1	818.3	2.95	0	989.01
7/30/05 11:00	37.3	1.4	1.9	0.5	4.5	0.7	132.8	28.4	898.5	3.23	0	988.66
7/30/05 12:00	34.8	1.7	2.3	0.6	6	0.9	161.9	29.6	920.2	3.31	0	988.11
7/30/05 13:00	33.1	2	2.7	0.7	7.7	1	152.1	22.7	889.6	3.2	0	987.46
7/30/05 14:00	28.7	1.7	2.3	0.6	6.2	0.9	152.3	32.3	817.5	2.94	0	986.87
7/30/05 15:00	27.3	1.5	2.1	0.6	5.1							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127								RH (%)	
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)		
7/31/05 3:00	0.05984	26.6	0.5	5.4	202.5	9.4	0	0.016	0.018	0.035	30.2	18.33	88	
7/31/05 4:00	0.04469	25.9	0.8	7.2	202.5	9.4	0	0.015	0.015	0.03	25.6	17.78	90	
7/31/05 5:00	0.04866	24.7	1.8	5.4	202.5	8.5	0	0.009	0.014	0.023	28.5	17.78	89	
7/31/05 6:00	0.0427	23.6	0.9	4	202.5	6.3	0.001	0.015	0.012	0.027	29.9	18.89	86	
7/31/05 7:00	0.05055	24	0.9	4.9	202.5	6.3	0	0.018	0.007	0.014	0.021	29.2	24.44	64
7/31/05 8:00	0.04987	24.6	0.9	5.4	202.5	7.6	0.048	0	0.007	0.007	0.007	25.2	28.33	47
7/31/05 9:00	0.04849	26.3	3.2	3.6	202.5	7.2	0.057	0.001	0.011	0.011	31.5	29.44	43	
7/31/05 10:00	0.05602	29.5	2.8	3.6	202.5	6.3	0.068	0	0.007	0.007	29.1	31.11	40	
7/31/05 11:00	0.06931	33.8	6.5	2.2	202.5	7.2	0.069	0	0.005	0.004	26.9	32.78	32	
7/31/05 12:00	0.06992	36.3	2.2	2.2	202.5	5.8	0.071	0	0.004	0.004	26.1	32.78	30	
7/31/05 13:00	0.06971	39.2	5.5	1.8	180	6.3	0.082	0	0.004	0.004	29.4	33.89	29	
7/31/05 14:00	0.07967	40.4	3.8	1.3	202.5	5.8	0.077	0	0.004	0.004	26.7	34.44	27	
7/31/05 15:00	0.06869	39.1	3.6	1.3	202.5	4.5	0.073	0	0.004	0.004	21.6	35.00	26	
7/31/05 16:00	0.07217	35.3	2.4	1.8	202.5	4.9	0.074	0	0.005	0.004	23.9	35.00	25	
7/31/05 17:00	0.07216	34.1	2.1	1.8	202.5	5.4	0.068	0	0.005	0.004	23.7	34.44	26	
7/31/05 18:00	0.07167	31.5	2.2	2.7	202.5	6.3	0.06	0	0.005	0.004	24.5	33.33	28	
7/31/05 19:00	0.07042	29.8	1.6	2.7	202.5	6.3	0.05	0	0.014	0.013	25.6	30.00	34	
7/31/05 20:00	0.0753	28.5	0.7	2.2	202.5	5.8	0.027	0.002	0.032	0.034	28.2	26.11	47	
7/31/05 21:00	0.06511	28.1	0.8	3.1	202.5	5.8	0.004	0.012	0.044	0.056	30.8	23.33	60	
7/31/05 22:00	0.06611	27.7	0.5	3.6	202.5	5.4	0.001	0.017	0.041	0.058	30.5	21.67	69	
7/31/05 23:00	0.06494	27.6	0.4	3.6	225	5.8	0	0.021	0.032	0.053	28.9	20.56	77	
8/1/05 0:00	0.06671	27.8	0.8	5.4	202.5	7.6	0	0.02	0.027	0.047	29.4	20.00	80	
8/1/05 1:00	0.04019	28	0.4	5.8	202.5	7.2	0	0.014	0.026	0.04	27.7	20.00	81	
8/1/05 2:00	0.04816	27.6	0.4	5.8	202.5	7.2	0	0.013	0.023	0.036	28.9	19.44	83	
8/1/05 3:00	0.04315	27	0.6	5.4	202.5	6.7	0.003	0.004	0.02	0.024	30	19.44	81	
8/1/05 4:00	0.06294	26.6	0.7	4	202.5	5.8	0.001	0.003	0.02	0.023	30.8	18.33	85	
8/1/05 5:00	0.03464	25.6	1.6	4	202.5	5.4	0	0.006	0.02	0.026	30	18.33	87	
8/1/05 6:00	0.04049	24.8	0.4	4.5	202.5	5.8	0.002	0.027	0.019	0.045	33.7	19.44	83	
8/1/05 7:00	0.05105	25.2	1	4	180	6.7	0.008	0.025	0.029	0.054	36.9	23.33	68	
8/1/05 8:00	0.04015	26.2	1.5	1.8	0	4.9	0.024	0.02	0.037	0.058	41	28.33	52	
8/1/05 9:00	0.05121	27.9	3	2.2	180	4.9	0.069	0.002	0.021	0.023	39.1	31.11	43	
8/1/05 10:00	0.07476	31.7	4.8	1.3	180	4.9	0.094	0	0.016	0.016	38.6	32.78	38	
8/1/05 11:00	0.08024	36.1	4.8	1.3	202.5	4	0.082	0	0.007	0.006	31.7	34.44	31	
8/1/05 12:00	0.07581						0.07	0	0.003	0.003	23.4	35.56	26	
8/1/05 13:00	0.06639						0.071	0	0.004	0.004	24.7	36.11	22	
8/1/05 14:00	0.06901						0.08	0	0.008	0.008	28.9	36.67	23	
8/1/05 15:00	0.08195						0.08	0	0.012	0.012	26.3	36.67	23	
8/1/05 16:00	0.07376						0.071	0	0.011	0.011	27.9	37.22	23	
8/1/05 17:00	0.06521						0.057	0	0.011	0.012	26.5	36.67	25	
8/1/05 18:00	0.05352						0.048	0	0.011	0.011	27.1	35.56	28	
8/1/05 19:00	0.05342						0.045	0	0.009	0.008	24.9	32.22	33	
8/1/05 20:00	0.05509						0.022	0.004	0.027	0.032	24.8	29.44	43	
8/1/05 21:00	0.02849						0.011	0.004	0.031	0.035	26.1	27.22	53	
8/1/05 22:00	0.02271						0.004	0.011	0.036	0.047	37.1	25.56	61	
8/1/05 23:00	0.06311						0.001	0.012	0.036	0.048	47	25.00	66	
8/2/05 0:00	0.06593						0.002	0.005	0.036	0.042	32.5	24.44	69	
8/2/05 1:00	0.06436						0.003	0.003	0.037	0.04	30.9	24.44	70	
8/2/05 2:00	0.06484						0.002	0.005	0.036	0.04	31.7	23.33	72	
8/2/05 3:00	0.06115						0	0.007	0.028	0.036	30.2	22.78	78	
8/2/05 4:00	0.04507						0	0.009	0.023	0.033	30.6	22.22	79	
8/2/05 5:00	0.05269						0	0.035	0.02	0.055	33.4	22.78	77	
8/2/05 6:00	0.04951						0.009	0.016	0.025	0.041	36.7	25.00	69	
8/2/05 7:00	0.05293						0.019	0.006	0.028	0.034	39.3	28.33	58	
8/2/05 8:00	0.03692						0.037	0.004	0.024	0.027	38.4	30.00	50	
8/2/05 9:00	0.04069						0.056	0.002	0.019	0.021	38.2	31.67	43	
8/2/05 10:00	0.05514						0.072	0.001	0.014	0.015	39.2	33.89	38	
8/2/05 11:00	0.05934						0.076	0	0.012	0.013	37.7	35.00	34	
8/2/05 12:00	0.06609						0.069	0.001	0.012	0.013	36.8	35.56	33	
8/2/05 13:00	0.06425						0.072	0	0.006	0.006	38.1	36.67	31	
8/2/05 14:00	0.07082						0.08	0	0.006	0.006	40.1	37.22	30	
8/2/05 15:00	0.07591						0.07	0	0.005	0.005	40	36.67	30	
8/2/05 16:00	0.07289						0.064	0	0.005	0.004	38.3	36.67	29	
8/2/05 17:00	0.06769						0.064	0	0.005	0.004	34.7	36.67	29	
8/2/05 18:00	0.06586						0.058	0	0.008	0.008	33.5	35.56	29	
8/2/05 19:00	0.06869						0.04	0	0.02	0.02	33.2	32.78	35	
8/2/05 20:00	0.06807						0.023	0.001	0.029	0.031	33.3	29.44	45	
8/2/05 21:00	0.07006						0.012	0.003	0.034	0.038	34.4	27.22	54	
8/2/05 22:00	0.07075						0.001	0.015	0.037	0.052	35.2	25.56	63	
8/2/05 23:00	0.07034						0.001	0.023	0.036	0.059	35.3	24.44	68	
8/3/05 0:00	0.06967						0	0.022	0.03	0.052	35.4	23.89	74	
8/3/05 1:00	0.0629						0	0.008	0.026	0.034	33.6	22.78	78	
8/3/05 2:00	0.05137						0.008	0.008	0.024	0.032	33.8	22.22	80	
8/3/05 3:00	0.0436						0.008	0.004	0.018	0.022	32.6	22.78	76	
8/3/05 4:00	0.03983						0.018	0	0.015	0.015	36.2	23.89	69	
8/3/05 5:00	0.03736						0.016	0.002	0.017	0.019	38.4	24.44	69	
8/3/05 6:00	0.03869						0.01	0.008	0.027	0.035	37.2	25.00	65	
8/3/05 7:00	0.03725						0.005	0.023	0.028	0.028	35.4	27.78	58	
8/3/05 8:00	0.02293						0.025	0.005	0.024	0.03	37.1	30.00	52	
8/3/05 9:00	0.02292						0.047	0.003	0.021	0.024	40.5	31.67	48	
8/3/05 10:00	0.04857						0.073	0.001	0.015	0.015	39.5	33.33	42	
8/3/05 11:00	0.0694						0.079	0	0.01	0.01	34.9	35.56	34	
8/3/05 12:00	0.08289						0.077	0	0.005	0.005	31.3	36.67	29	
8/3/05 13:00	0.0796						0.069	0	0.005	0.005	41.4	37.22	28	
8/3/05 14:00	0.06991						0.069	0	0.004	0.003	39.7	37.78	28	
8/3/05 15:00	0.07029						0.068	0	0.004	0.004	37.7	37.78	26	
8/3/05 16:00	0.07143						0.068	0	0.005	0.004	37.9	37.78	26	
8/3/05 17:00	0.07088						0.066	0	0.005	0.005	35.9	36.67	27	
8/3/05 18:00	0.06						0.06	0	0.008	0.007	32.9	35.56	29	
8/3/05 19:00	0.0697						0.05	0	0.014	0.014	34.1	32.78	43	
8/3/05 20:00	0.05379						0.035	0	0.025	0.024	36.1	30.56	52	
8/3/05 21:00	0.05205						0.024	0.001	0.03	0.031	37.8	28.89	59	
8/3/05 22:00	0.02806						0.028	0	0.023	0.024	37.8	28.33	62	
8/3/05 23:00	0.03468						0.036	0	0.013	0.012	33	28.33	61	
8/4/05 0:00	0.04783						0.033	0	0.012	0.011	34.6	27.22	63	
8/4/05 1:00	0.03751						0.034	0	0.008	0.007	32.2	26.11	67	
8/4/05 2:00	0.0556						0.018	0	0.017	0.017	32.1	25.00	74	
8/4/05 3:00	0.04513</													

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
7/31/05 3:00	156	0	20.6	17.8	16.1	76	0.00	0	993.23	20.7	23.9	3.2
7/31/05 4:00	185	0.44704	20.6	18.2	16.7	78	2.57	130	993.23	19.9	22.3	2.4
7/31/05 5:00	168	0.44704	20	18	16.7	81	2.06	150	993.57	20	21.3	1.3
7/31/05 6:00	177	0	22.8	19.3	17.2	71	1.54	160	993.90	22.4	22.6	0.1
7/31/05 7:00	143	0.44704	26.1	20.1	16.7	56	3.60	160	994.24	24.6	23.9	-0.7
7/31/05 8:00	194	1.34112	27.9	20.1	15.6	47	3.09	180	994.58	26	25	-1
7/31/05 9:00	196	1.78816	30	20.8	15.6	42	5.14	190	994.58	28.3	27	-1.3
7/31/05 10:00	182	1.78816	31.1	20.8	15	38	3.09	170	993.90	30.5	29	-1.4
7/31/05 11:00	208	1.34112	32.2	20.8	14.4	34	3.60	210	993.57	31.7	30.2	-1.6
7/31/05 12:00	195	1.34112	32	20.6	14	34			992.89	32.7	31.2	-1.5
7/31/05 13:00	202	1.34112	32	20.6	14	34	2.57	120	992.55	33.5	31.9	-1.6
7/31/05 14:00	176	1.34112	35	22.9	17	34	2.57	120	991.53	33.9	32.4	-1.4
7/31/05 15:00	188	1.34112	35	21.2	13.5	27	1.54	170	990.86	34.2	32.9	-1.2
7/31/05 16:00	226	1.34112	33.3	20.9	14	31	3.09	110	990.52	34.1	33.1	-0.9
7/31/05 17:00	182	1.34112	32.2	20.8	14.4	34	3.09	110	990.18	33.3	32.8	-0.5
7/31/05 18:00	196	0.89408	32.2	20.8	14.4	34	3.09	110	990.18	31.7	32	0.3
7/31/05 19:00	171	0.44704	30.6	19.5	12.8	34	2.57	180	990.18	28.3	29.8	1.5
7/31/05 20:00	240	0	26.7	19.1	14.4	47	2.06	140	990.86	26.5	28.6	2
7/31/05 21:00	194	0	25	19.1	15.6	56	2.06	140	990.86	24.5	26.9	2.4
7/31/05 22:00	264	0	25	19.4	16.1	58	0.00	0	991.20	23.8	26.5	2.7
7/31/05 23:00	239	0	24.4	19.2	16.1	60	1.54	190	991.53	23.3	25.6	2.3
8/1/05 0:00	237	0	22.2	16.8	16.7	71	3.09	150	991.20	22.6	24.9	2.4
8/1/05 1:00	162	0	25	19.4	16.1	58	3.60	180	990.52	23	24.6	1.6
8/1/05 2:00	189	0	23.3	18.8	16.1	64	0.00	0	990.86	22.5	24.1	1.6
8/1/05 3:00	53	0.44704	20	18	16.7	81	2.06	360	991.20	22.2	24.9	2.7
8/1/05 4:00	150	0	21.7	18.6	16.7	73	0.00	0	991.87	21.5	24.7	3.1
8/1/05 5:00	226	0	21.1	18.4	16.7	76	2.06	120	991.87	20.8	23.3	2.5
8/1/05 6:00	190	0	23.9	20	17.8	69	0.00	0	992.55	20.9	21.8	0.9
8/1/05 7:00	106	0.44704	26.7	20.6	17.2	56	3.09	170	992.89	24.8	24.3	-0.6
8/1/05 8:00	174	0.89408	29.4	21.4	17.2	48	3.60	200	992.55	27.2	26.2	-1
8/1/05 9:00	216	1.34112	31.1	21.7	16.7	42			992.89	29	27.9	-1.1
8/1/05 10:00	229	1.34112	33.3	22.6	17.2	38	4.12	190	992.21	30.1	29	-1.1
8/1/05 11:00	219	1.34112	35	21.9	15	30	4.63	190	991.87	31.1	30.4	-0.8
8/1/05 12:00	189	1.34112	35	21.4	13.9	28	3.09	230	990.86	33.6	32.1	-1.5
8/1/05 13:00	202	1.34112	35.6	21.3	13.3	26	2.06	260	990.18	35.1	33.7	-1.5
8/1/05 14:00	170	1.78816	36.7	20.7	11.1	21	4.12	180	989.50	35.8	34.4	-1.3
8/1/05 15:00	173	1.78816	36.7	21.1	12.2	23	3.60	200	989.16	36.1	34.9	-1.2
8/1/05 16:00	188	1.34112	36.7	21.9	13.9	25	3.60	200	988.49	35.9	35	-0.9
8/1/05 17:00	200	1.34112	35.6	21.3	13.3	26	3.09	220	988.49	35.6	35.1	-0.5
8/1/05 18:00	205	0.89408	34.4	21.5	14.4	30	4.63	210	988.49	33.5	33.8	0.3
8/1/05 19:00	219	0.44704	32.8	20.7	13.9	32	4.12	170	988.83	30.5	31.7	1.3
8/1/05 20:00	206	0	31.1	20.8	15	38	3.09	170	989.16	28.5	30.3	1.8
8/1/05 21:00	253	0	30.6	21.2	16.1	42	3.09	170	989.50	28.1	29.5	1.4
8/1/05 22:00	254	0	29.4	21.1	16.7	46	3.60	180	989.50	26.7	28.5	1.7
8/1/05 23:00	218	0	29.4	21.1	16.7	46	3.60	180	989.84	25.8	27.6	1.8
8/2/05 0:00	126	0	28.9	21.3	17.2	49	4.12	180	989.50	25.9	27.3	1.4
8/2/05 1:00	191	0	28.3	21.1	17.2	51	3.60	170	989.50	26.5	27.7	1.2
8/2/05 2:00	135	0	27.2	20.7	17.2	54	3.09	170	989.50	26.3	27.4	1.1
8/2/05 3:00	108	0	26.7	20.6	17.2	56	2.57	170	989.16	25.5	26.7	1.2
8/2/05 4:00	63	0	26.7	20.6	17.2	56	3.60	170	989.50	24.8	25.9	1.1
8/2/05 5:00	78	0	26.1	20.7	17.8	60	4.12	170	990.18	25	25.7	0.7
8/2/05 6:00	206	0.44704	26.7	21.2	18.3	60	3.60	170	990.52	25.2	25.2	0
8/2/05 7:00	205	0.89408	28.3	21.4	17.8	53	4.12	210	991.20	27.1	26.5	-0.6
8/2/05 8:00	177	1.34112	30.6	21.8	17.2	45	4.63	180	991.20	29.1	28.1	-1
8/2/05 9:00	193	1.34112	32.2	22.6	17.8	40	3.60	210	991.20	31.2	29.8	-1.4
8/2/05 10:00	194	1.34112	33.9	23	17.8	38	3.09	140	991.20	33.3	31.8	-1.5
8/2/05 11:00	199	1.78816	35	23.6	18.3	37	2.06	360	990.52	34.9	33.2	-1.7
8/2/05 12:00	173	1.78816	35.6	23.5	17.8	35	2.57	170	989.50	35.4	33.7	-1.7
8/2/05 13:00	165	1.78816	36.1	23.3	17.2	33	3.09	240	988.83	36.2	34.5	-1.7
8/2/05 14:00	202	1.78816	36.7	23.5	17.2	32	3.60	130	988.15	36.3	34.8	-1.5
8/2/05 15:00	177	1.78816	36.7	23.5	17.2	32	4.63	180	987.81	36.2	35	-1.3
8/2/05 16:00	184	1.78816	36.1	22.2	15	28	2.06	160	987.47	35.7	34.8	-0.9
8/2/05 17:00	193	1.34112	36.1	21.9	14.4	27	3.09	160	987.13	34.7	34.4	-0.3
8/2/05 18:00	175	0.89408	35	21.6	14.4	29	4.63	170	987.13	33.4	33.7	0.3
8/2/05 19:00	171	0.89408	33.3	21.4	15	33	3.09	170	987.47	31	32.4	1.5
8/2/05 20:00	181	0.44704	31.7	21.3	15.6	38	2.57	160	987.81	29.7	31.1	1.4
8/2/05 21:00	263	0	28.3	20.8	16.7	49	2.06	150	987.81	28	30.1	2.1
8/2/05 22:00	248	0	29.4	21.1	16.7	46	2.06	180	987.81	27.1	29.5	2.4
8/2/05 23:00	140	0	27.2	20.7	17.2	54	2.06	160	987.81	26.5	28.9	2.4
8/3/05 0:00	97	0	25.6	20.6	17.8	62	0.00	0	987.81	27	29	2
8/3/05 1:00	197	0	26.1	20.1	16.7	56	2.06	150	987.47	27.2	28.8	1.7
8/3/05 2:00	137	0	27.2	20.5	16.7	53	3.60	170	987.81	27.7	27.4	0.2
8/3/05 3:00	150	0.44704	25	20	17.2	62	3.09	150	987.81	25.2	26	0.8
8/3/05 4:00	159	0	23.9	19.6	17.2	66	2.57	120	988.15	24.9	25.4	0.6
8/3/05 5:00	168	0.44704	23.9	20	17.8	69	2.06	150	988.49	24.3	24.9	0.7
8/3/05 6:00	170	0.89408	26.1	21	18.3	62	2.06	120	988.83	24.2	24.5	0.2
8/3/05 7:00	178	1.34112	28.3	22	18.9	57	3.60	170	989.50	26.6	26.1	-0.6
8/3/05 8:00	184	1.34112	30	22.8	19.4	53	4.12	160	989.50	28.3	27.2	-1
8/3/05 9:00	187	1.34112	31.7	23.3	19.4	48	3.60	150	989.50	30.8	29.5	-1.3
8/3/05 10:00	185	1.34112	34.4	24.1	19.4	41	3.60	180	989.50	33.2	31.7	-1.5
8/3/05 11:00	193	1.78816	35.6	23.5	17.8	35	3.09	200	988.83	35	33.4	-1.6
8/3/05 12:00	206	1.78816	36.7	23.2	16.7	31	2.57	190	988.15			
8/3/05 13:00	175	1.78816	36.7	22.9	16.1	29	3.60	180	987.47	36.5	34.9	-1.6
8/3/05 14:00	192	1.78816	37.2	22.5	15	27	2.06	160	986.79	36.9	35.4	-1.5
8/3/05 15:00	192	1.34112	36.7	22.7	15.6	28	2.06	120	986.45	36.7	35.4	-1.3
8/3/05 16:00	192	1.78816	37.2	23	16.1	29	3.09	290	986.12	36.4	35.5	-0.9
8/3/05 17:00	174	1.34112	36.1	22.5	15.6	29	5.14	160	986.12	35.4	35	0.4
8/3/05 18:00	177	1.34112	35	22.2	15.6	31	4.12	180	986.45	33.6	33.9	0.3
8/3/05 19:00	220	0.89408	32.8	22.6	18.9	44	3.09	190	986.79	30.9	32.2	1.3
8/3/05 20:00	223	0	31.7	23.3	19.4	48	3.60	200	987.47	28.6	30.2	1.6
8/3/05 21:00	175	0	30.6	23	19.4	51	2.57	190	987.81	27.6	29.2	1.6
8/3/05 22:00	200	0.89408	29.4	22.7	19.4	55	4.12	180	987.81	27.2	28.5	1.3
8/3/05 23:00	215	0.89408	28.3	22.3	19.4	59	4.12	180	988.49	26.1	27.2	1.1
8/4/05 0:00	202	0.44704	27.2	22	19.4	62	2.06	200	988.83	25.2	26.7	1.4
8/4/05 1:00	188	0.44704	26.7	21.9	19.4	64	2.06	120	989.84	23.9	25.8	1.9
8/4/05 2:00	109	0.4470										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
7/31/05 3:00	70.6	0.2	1.1	0.9	1.8	0.1	124.2	7.7	0	0	0	986.49
7/31/05 4:00	74.5	0.2	1.6	1.4	4	0.2	108.8	7.5	0	0	0	986.66
7/31/05 5:00	76.8	0.3	1.5	1.2	3	0.4	145	12.5	9.3	0.03	0	986.96
7/31/05 6:00	69.6	0.8	1.7	0.9	3.2	0.4	155.4	13.6	126.5	0.46	0	987.11
7/31/05 7:00	63.2	0.9	1.4	0.5	2.9	0.3	154.3	14.8	313.8	1.13	0	987.47
7/31/05 8:00	59.1	1.9	2.6	0.7	4.6	0.6	149.2	14.4	503.8	1.81	0	987.72
7/31/05 9:00	50.8	2.1	2.9	0.8	4.9	0.7	168.9	15.1	678.8	2.44	0	987.82
7/31/05 10:00	40.2	2.2	2.9	0.7	5.7	0.8	174.3	18.7	814	2.93	0	987.62
7/31/05 11:00	35.3	2.2	2.9	0.7	6.2	1	192.3	21.3	894.5	3.22	0	987.08
7/31/05 12:00	33.3	1.7	2.1	0.5	5	0.8	157.1	27.9	918.8	3.31	0	986.51
7/31/05 13:00	29.5	1.9	2.5	0.6	5.9	0.8	149.2	30.1	898.9	3.24	0	985.85
7/31/05 14:00	27.8	2	2.7	0.7	5.4	0.8	164.1	19.3	819.5	2.95	0	985.26
7/31/05 15:00	26.2	1.4	1.9	0.5	4.9	0.7	170.2	25.9	687.1	2.47	0	984.59
7/31/05 16:00	27	1.2	1.9	0.6	5.7	0.8	137.2	29.7	511.8	1.84	0	984.05
7/31/05 17:00	28.8	1.4	2.2	0.8	4.3	0.5	148.2	17	319.5	1.15	0	983.61
7/31/05 18:00	33.3	1.2	2.2	1	3.9	0.4	153.1	9.4	128.3	0.46	0	983.31
7/31/05 19:00	41.9	0.7	2.1	1.4	3.3	0.3	183.4	8.2	8.3	0.03	0	983.47
7/31/05 20:00	46.9	0.7	2.2	1.5	3.8	0.3	156.5	7.8	0	0	0	983.77
7/31/05 21:00	51.5	0.2	1.2	1.1	2.5	0.2	177.6	8.5	0	0	0	984.13
7/31/05 22:00	53.8	0.1	1.2	1.1	1.9	0.2	159.5	7.3	0	0	0	984.19
7/31/05 23:00	55.5	0	1.1	1	1.8	0.2	165.5	8.1	0	0	0	984.42
8/1/05 0:00	58.4	0.4	1.7	1.3	3.1	0.2	171.2	7.2	0	0	0	984.19
8/1/05 1:00	58.4	1.5	2.9	1.4	4.8	0.4	166.3	7.5	0	0	0	983.85
8/1/05 2:00	56.6	0.6	1.6	1	2.9	0.2	190.8	6.6	0	0	0	984
8/1/05 3:00	56.6	0.1	1.1	0.9	1.8	0.1	193	4.5	0	0	0	984.27
8/1/05 4:00	60	0	0.6	0.6	1.1	0.1	195	2.6	0	0	0	984.57
8/1/05 5:00	63.3	0.2	1.1	0.9	1.9	0.2	100.4	7.9	6.6	0.02	0	984.84
8/1/05 6:00	71.6	0.2	1	0.8	2.1	0.2	67.2	6.3	58.9	0.21	0	985.53
8/1/05 7:00	63	0.2	0.8	0.6	1.8	0.2	120	15.7	280.6	1.01	0	986.08
8/1/05 8:00	55.9	1.4	1.9	0.5	4.3	0.4	207.7	15.2	481.6	1.73	0	986.11
8/1/05 9:00	50.3	1.3	1.7	0.4	3.1	0.4	206.9	15.4	535.3	1.93	0	986.22
8/1/05 10:00	47.9	1.4	2	0.6	4.2	0.5	179.4	16.3	572.3	2.06	0	985.89
8/1/05 11:00	42.6	1.6	2.4	0.8	4.2	0.6	197.3	14.6	438.7	1.58	0	985.38
8/1/05 12:00	27.9	2.4	3.3	0.9	6.2	0.8	203.7	16.7	939.3	3.38	0	984.71
8/1/05 13:00	21.7	1.8	2.4	0.6	5.6	0.8	204.4	20.9	899.3	3.24	0	984.03
8/1/05 14:00	22.3	1.9	2.4	0.6	6.4	0.8	196.7	24.5	809.2	2.91	0	983.29
8/1/05 15:00	23.7	1.5	2.1	0.6	6.1	0.8	197.8	24.8	665.8	2.4	0	982.61
8/1/05 16:00	24.8	1.4	2.1	0.7	4.8	0.7	191	23.4	485.5	1.76	0	982.12
8/1/05 17:00	25	0.7	1.3	0.7	3.7	0.4	160.8	19.7	295.8	1.07	0	981.79
8/1/05 18:00	30.1	1	1.9	0.9	4	0.4	166.3	11	111.8	0.4	0	981.75
8/1/05 19:00	38.2	1.1	2.3	1.2	3.9	0.4	156.4	7.9	8.2	0.03	0	982
8/1/05 20:00	46.4	1	2.5	1.5	4.1	0.3	163.3	7.6	0	0	0	982.34
8/1/05 21:00	46.6	1.3	2.6	1.3	3.8	0.4	156.5	7.9	0	0	0	982.68
8/1/05 22:00	51	1.1	2.5	1.3	4	0.3	165.3	7.3	0	0	0	982.82
8/1/05 23:00	56	0.9	2.2	1.3	3.5	0.2	174.7	5.8	0	0	0	982.87
8/2/05 0:00	56.9	1	2.4	1.4	3.8	0.3	175	7	0	0	0	982.76
8/2/05 1:00	54.3	1.3	2.6	1.3	4.4	0.4	163.6	8.2	0	0	0	982.5
8/2/05 2:00	55.1	1.1	2.3	1.1	4.4	0.4	163.6	9.4	0	0	0	982.45
8/2/05 3:00	58.9	0.7	1.8	1.2	3.5	0.3	190.9	10	0	0	0	982.4
8/2/05 4:00	62.6	1.2	2.2	1	4	0.3	179.5	9.3	0	0	0	982.43
8/2/05 5:00	63.3	1	2	1	3.9	0.5	143.5	12.7	7.7	0.03	0	982.81
8/2/05 6:00	66.2	1	1.8	0.8	3.5	0.4	191.9	13	100.3	0.36	0	983.41
8/2/05 7:00	61.9	1.4	2	0.6	3.7	0.4	193.8	10.6	272.8	0.98	0	983.86
8/2/05 8:00	57	1.4	2	0.6	4.1	0.5	162.5	15.5	474.1	1.71	0	984.3
8/2/05 9:00	51.7	1.6	2.2	0.6	3.9	0.6	153.6	17.5	643.6	2.32	0	984.42
8/2/05 10:00	45.1	1.6	2.2	0.6	4.8	0.7	179.1	23.1	773.9	2.79	0	984.32
8/2/05 11:00	37.6	2	2.6	0.7	6.8	0.9	178.9	27.3	896.2	3.23	0	983.84
8/2/05 12:00	34.3	2	2.7	0.6	6.3	0.9	162.5	23.6	889	3.2	0	983.28
8/2/05 13:00	30.3	2.5	3.2	0.8	6.5	1	143.3	20.5	889.1	3.2	0	982.46
8/2/05 14:00	30.3	2.2	3	0.8	7.1	1.1	164	26.7	786.6	2.83	0	981.84
8/2/05 15:00	30.7	2.4	3.3	0.9	7	1	126.2	18.3	647.3	2.33	0	981.31
8/2/05 16:00	32.1	2.4	3.2	0.8	6.1	0.8	171.4	17.8	463.2	1.67	0	981
8/2/05 17:00	33.3	2.1	2.9	0.8	5.6	0.7	163.5	14.5	270.8	0.97	0	980.64
8/2/05 18:00	36.8	0.5	1.5	1	2.8	0.2	155.2	9.5	97.8	0.35	0	980.63
8/2/05 19:00	40.7	0.2	1.6	1.4	2.7	0.2	164.1	7.6	7.1	0.03	0	980.71
8/2/05 20:00	42.3	0.5	1.7	1.2	2.9	0.3	168.2	9.6	0	0	0	981.17
8/2/05 21:00	49	0.5	2.1	1.6	3.6	0.3	190.5	7	0	0	0	981.27
8/2/05 22:00	52.2	0.3	2	1.7	3.1	0.3	160.2	7	0	0	0	981.37
8/2/05 23:00	54.9	0.1	1.8	1.7	2.7	0.2	162.1	7.1	0	0	0	981.39
8/3/05 0:00	52.9	0.3	1.8	1.5	3.2	0.3	151.5	8.1	0	0	0	981.2
8/3/05 1:00	51.5	0.2	1.7	1.5	2.8	0.2	155.3	7.8	0	0	0	981.03
8/3/05 2:00	54.4	1.1	2.3	1.2	3.8	0.3	145.1	8.3	0	0	0	980.86
8/3/05 3:00	58.7	1.3	2.3	1	4.8	0.4	167.1	11.5	0	0	0	980.84
8/3/05 4:00	63.1	1.7	2.3	1	4.5	0.5	179.1	9.9	0	0	0	981.19
8/3/05 5:00	66.6	1.5	2.5	1	4.6	0.4	198.4	9.4	7.3	0.03	0	981.58
8/3/05 6:00	71	0.4	1.4	1	2.6	0.2	174.8	8.9	96.9	0.35	0	981.97
8/3/05 7:00	62.4	1.4	2	0.6	3.9	0.4	146.6	14	266	0.96	0	982.56
8/3/05 8:00	58.3	1.9	2.5	0.7	4.6	0.6	182.3	13.2	450.8	1.62	0	982.86
8/3/05 9:00	52.2	1.6	2.1	0.6	3.6	0.6	163.2	19	630.1	2.27	0	982.89
8/3/05 10:00	43.4	1.6	2.1	0.5	4.2	0.7	182.4	23.4	768.8	2.77	0	982.79
8/3/05 11:00	35.8	1.9	2.6	0.7	5.6	0.8	154.8	18.2	853.3	3.07	0	982.39
8/3/05 12:00					6.5		103.3			1.67	39.33	
8/3/05 13:00	28.3	2.4	3.3	0.8	7.8	1	179.6	20.8	858.5	3.09	0	981.16
8/3/05 14:00	26.8	2.1	2.9	0.8	6.8	1	139.2	24.2	789.3	2.84	0	980.45
8/3/05 15:00	28.2	2.1	2.9	0.8	6.3	0.9	179	19.3	646.8	2.33	0	979.89
8/3/05 16:00	27.8	2.3	3.2	0.9	5.9	0.8	183.8	14.5	498.4	1.79	0	979.77
8/3/05 17:00	29.6	1.9	2.8	0.9	5.8	0.7	143.8	14.1	274.8	0.99	0	979.53
8/3/05 18:00	34	0.9	1.7	0.9	3.4	0.4	153.7	12.8	96.3	0.35	0	979.75
8/3/05 19:00	41.9	0.7	2.1	1.3	5.5	0.3	165.3	7.9	6.8	0.02	0	980.16
8/3/05 20:00	54.3	0.8	2.4	1.6	3.5	0.3	171.8	6	0	0	0	980.6
8/3/05 21:00	60.2	0.8	2.4	1.7	3.6	0.3	174.9	6	0	0	0	980.94
8/3/05 22:00	62.3	1.2	2.6	1.4	4.5	0.4	171.5	7.6	0	0	0	981.1
8/3/05 23:00	66.2	1.2	2.6	1.4	4.4	0.3	178.7	6.8	0	0	0	981.54
8/4/05 0:00	69.7	0.5	1.9	1.4	3.4	0.3	155.3	8.3	0	0	0	982.12
8/4/05 1:00	74.7	0	0.8	0.8	1.8	0.1	202.3	8.1	0	0	0	982.74
8/4/05 2:00	78.4	0	1.5	1.5	2.5	0.2	166	6	0	0	0	983.24
8/4/05 3:00	73.9	0.5	1.8	1.3	2.8	0.3	148.9	8.5	0	0	0	983.29
8/4/05 4:00	74.7	0	1.2	1.2	2.5	0.3	142.8	10.8	0	0	0	983.56
8/4/05 5:00	79.8	0.1	0.9	0.7	2.4	0.2	128.6	14.3	7.2	0.03	0	983.92
8/4/05 6:00	76.9	0.6	1.5	0.9	2.8	0.3	152.6	11.4	95.5	0.34	0	984.24
8/4/05 7:00</												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127								RH (%)	
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)		
8/4/05 18:00	0.07019						0.045	0	0.025	0.025	34.3	31.11	53	
8/4/05 19:00	0.0588						0.036	0	0.028	0.028	35.3	28.89	59	
8/4/05 20:00	0.04911						0.038	0	0.018	0.018	30.5	28.33	62	
8/4/05 21:00	0.04004						0.032	0	0.017	0.017	32.7	27.22	67	
8/4/05 22:00	0.05787						0.022	0	0.018	0.018	30.8	25.55	76	
8/4/05 23:00	0.054						0.012	0	0.019	0.019	32.4	24.44	83	
8/5/05 0:00	0.05399						0.022	0	0.011	0.011	29.5	25.00	79	
8/5/05 1:00	0.04888						0.04	0	0.005	0.004	25.1	25.00	70	
8/5/05 2:00	0.0487						0.042	0	0.005	0.004	29	25.00	71	
8/5/05 3:00	0.04883						0.04	0	0.005	0.004	30.3	24.44	75	
8/5/05 4:00	0.04569						0.038	0	0.005	0.004	29.7	23.33	79	
8/5/05 5:00	0.04323						0.034	0	0.006	0.005	28.6	22.78	81	
8/5/05 6:00	0.03721						0.031	0.001	0.007	0.009	25.2	22.78	80	
8/5/05 7:00	0.0339						0.031	0.002	0.008	0.01	20.9	23.89	76	
8/5/05 8:00	0.03217						0.032	0.002	0.007	0.009	20	25.00	69	
8/5/05 9:00	0.03258						0.035	0.003	0.008	0.011	19.9	26.67	64	
8/5/05 10:00	0.03468						0.042	0.002	0.007	0.01	21.7	27.78	59	
8/5/05 11:00	0.03907						0.049				21.5	29.44	53	
8/5/05 12:00	0.05097						0.050				22.1	30.56	49	
8/5/05 13:00	0.05324	35	4	1.8		22.5	7.2	0.055	0.001	0.006	0.006	26.2	32.22	45
8/5/05 14:00	0.05712	34.9	3.3	2.2		45	8	0.055	0.001	0.006	0.007	27.8	33.33	39
8/5/05 15:00	0.06017	36.4	2.3	1.8		22.5	6.7	0.057	0.001	0.007	0.008	29	33.89	37
8/5/05 16:00	0.06075	35.6	2.2	2.2		67.5	7.2	0.059	0.001	0.008	0.009	32.2	34.44	37
8/5/05 17:00	0.06396	34.3	3.3	2.7		45	8.5	0.056	0.001	0.01	0.011	31.2	33.89	28
8/5/05 18:00	0.06303	33	1.6	2.7		0	9.8	0.056	0.001	0.01	0.011	31.2	33.89	28
8/5/05 19:00	0.06303	30.8	4.4	4		22.5	13.4	0.055	0	0.007	0.007	25.7	28.33	55
8/5/05 20:00	0.05781	26.2	3.3	4.5		112.5	11.6	0.038	0	0.013	0.012	25.2	24.44	80
8/5/05 21:00	0.06033	24.1	1.2	3.1		202.5	7.6	0.03	0	0.016	0.015	24.1	23.89	77
8/5/05 22:00	0.046	24.4	0.8	2.2		202.5	5.8	0.039	0	0.009	0.009	24.4	24.44	72
8/5/05 23:00	0.0522	23.6	0.5	4		292.5	7.2	0.033	0	0.009	0.008	25.9	23.89	78
8/5/05 23:00	0.05183	23.3	0.9	2.2		292.5	5.8	0.034	0	0.009	0.009	28.5	23.89	78
8/6/05 0:00	0.05318	22.7	0.3	1.3		202.5	4	0.022	0	0.01	0.009	29.5	22.78	84
8/6/05 1:00	0.05097	22.4	0.3	1.3		225	4	0.027	0	0.007	0.007	24.9	22.78	85
8/6/05 2:00	0.04907	22.1	0.4	1.3		202.5	4.5	0.03	0	0.005	0.005	22	22.78	79
8/6/05 3:00	0.04168	22.1	0.4	1.3		0	5.4	0.024	0	0.005	0.005	20.9	21.67	81
8/6/05 4:00	0.04255	21.9	0.5	1.8		22.5	5.8	0.022	0	0.006	0.006	18.3	21.67	81
8/6/05 5:00	0.04249	22.1	0.7	2.7		0	7.2	0.017	0.001	0.007	0.008	19.7	20.56	83
8/6/05 6:00	0.03451	21.4	0.4	0.4		0	4	0.013	0.001	0.008	0.009	17.6	20.56	86
8/6/05 7:00	0.02123	21.8	0.8	1.3		247.5	5.4	0.014	0.003	0.008	0.011	24.5	22.22	83
8/6/05 8:00	0.01903	23.3	3.2	1.8		112.5	5.8	0.018	0.006	0.012	0.018	27.8	25.00	79
8/6/05 9:00	0.02075	28.3	5.1	0.4		112.5	2.7	0.03	0.004	0.014	0.018	28	27.22	62
8/6/05 10:00	0.03383	29.8	3	0.4		112.5	1.8	0.037	0.003	0.015	0.018	32.4	28.89	57
8/6/05 11:00	0.0474	33.4	8.2	0.4		157.5	2.2	0.064	0.001	0.009	0.009	27.6	31.11	46
8/6/05 12:00	0.0657	38.2	3.4	0.9		202.5	3.1	0.076	0	0.008	0.008	29.6	31.67	43
8/6/05 13:00	0.07205	37.7	3.7	0.9		202.5	4	0.087	0	0.006	0.005	27.9	33.33	36
8/6/05 14:00	0.0784	40.9	4.1	0.9		225	3.6	0.099	0	0.005	0.005	31.1	33.89	35
8/6/05 15:00	0.0869	41.3	4.5	0.9		202.5	5.8	0.088	0	0.004	0.003	27.7	34.44	34
8/6/05 16:00	0.09194	37.3	2.5	0.9		292.5	3.6	0.083	0	0.003	0.002	28.7	34.44	34
8/6/05 17:00	0.08664	35.3	2.9	0.9		292.5	4	0.082	0	0.004	0.003	30.3	33.89	36
8/6/05 18:00	0.0845	32.5	1.5	1.3		292.5	4	0.081	0	0.004	0.003	29.6	33.33	38
8/6/05 19:00	0.08575	31	2	0.4		292.5	3.6	0.065	0	0.011	0.011	33.8	28.89	57
8/6/05 20:00	0.08365	28.1	4.4	2.7		202.5	5.8	0.045	0	0.011	0.01	32.7	23.89	85
8/6/05 21:00	0.0695	26.8	1.4	2.7		202.5	7.2	0.021	0.001	0.018	0.018	31.6	24.44	86
8/6/05 22:00	0.05215	25.4	1.6	3.6		202.5	8.5	0.016	0.002	0.019	0.021	25.1	23.89	86
8/6/05 23:00	0.0496	24.2	0.8	3.1		202.5	8.9	0.017	0.001	0.016	0.017	27.7	23.33	87
8/7/05 0:00	0.05007	23.6	0.6	4.9		202.5	8.5	0.018	0.002	0.017	0.017	22.9	22.22	89
8/7/05 1:00	0.04341	23.8	0.5	4		180	6.3	0.003	0.007	0.019	0.025	25.9	22.22	91
8/7/05 2:00	0.03796	23.6	1.1	3.6		202.5	6.3	0.008	0.004	0.018	0.021	26.9	22.22	90
8/7/05 3:00	0.031	23.3	1	4		202.5	6.3	0	0.009	0.017	0.025	26.5	21.67	92
8/7/05 4:00	0.03106	23.1	1	4.9		202.5	7.6	0.007	0.002	0.013	0.016	28.4	21.67	93
8/7/05 5:00	0.0321	23.1	0.9	6.3		202.5	8.9	0.007	0.003	0.012	0.015	30.8	21.67	93
8/7/05 6:00	0.03074	22.4	0.5	4.9		202.5	7.6	0.009	0.005	0.012	0.018	30.6	22.22	92
8/7/05 7:00	0.03034	22.6	0.5	4.9		202.5	6.7	0.018	0.002	0.008	0.01	30.7	24.44	82
8/7/05 8:00	0.0215	23.7	2.7	3.1		202.5	5.8	0.025	0.004	0.012	0.016	31.3	27.22	70
8/7/05 9:00	0.02551	27.1	4	2.2		202.5	4.5	0.043	0.002	0.011	0.012	35	29.44	60
8/7/05 10:00	0.04426	31.1	5.2	1.3		202.5	4.5	0.06	0	0.008	0.009	36.9	31.11	53
8/7/05 11:00	0.05707	37.2	5.1	1.3		202.5	3.6	0.069	0	0.005	0.005	36.3	32.22	47
8/7/05 12:00	0.06776	40.3	3.5	1.3		202.5	3.1	0.069	0	0.004	0.004	33.1	33.33	39
8/7/05 13:00	0.0769	40.8	3.9	1.8		202.5	4.9	0.075	0	0.004	0.004	31	33.89	39
8/7/05 14:00	0.07655	40.4	5	1.3		180	5.8	0.074	0	0.004	0.004	28.6	34.44	36
8/7/05 15:00	0.07755	41.2	2.7	0.9		202.5	4.9	0.075	0	0.004	0.004	28.6	35.00	34
8/7/05 16:00	0.07839	37.7	4.2	1.3		202.5	5.4	0.075	0	0.004	0.004	29.6	35.56	33
8/7/05 17:00	0.07784	35.3	3.3	1.3		202.5	4.5	0.075	0	0.005	0.005	27.2	35.56	33
8/7/05 18:00	0.0721	33	2	1.3		202.5	5.4	0.056	0	0.008	0.008	32.8	33.89	37
8/7/05 19:00	0.06914	30.9	1.7	2.7		202.5	5.8	0.039	0	0.016	0.016	31.1	31.11	46
8/7/05 20:00	0.0655	29.8	0.6	2.7		180	6.7	0.028	0	0.023	0.024	29.8	30.00	48
8/7/05 21:00	0.06526	29.9	0.8	6.3		202.5	8.9	0.021	0.002	0.025	0.027	29.7	28.33	56
8/7/05 22:00	0.05152	28.7	2.8	2.7		180	10.3	0.035	0	0.01	0.01	30.2	27.78	63
8/7/05 23:00	0.05017	26.3	0.9	1.8		90	6.3	0.028	0	0.012	0.012	31	26.11	70
8/8/05 0:00	0.04417	25.5	0.5	2.2		0	5.4	0.031	0	0.01	0.009	23.7	25.56	72
8/8/05 1:00	0.05647	25.1	0.9	0.4		315	3.1	0.019	0	0.013	0.012	24.3	23.89	79
8/8/05 2:00	0.04665	24.8	1.9	1.8		0	7.2	0.032	0	0.006	0.006	19.9	24.44	75
8/8/05 3:00	0.03853	24	1	2.7		22.5	6.3	0.028	0	0.006	0.006	19.1	23.33	80
8/8/05 4:00	0.03798	23.4	0.6	1.3		67.5	4	0.019	0	0.009	0.009	16.1	22.22	84
8/8/05 5:00	0.0522	23.1	0.5	0.4		315	3.6	0.006	0.004	0.016	0.02	19	21.67	87
8/8/05 6:00	0.04707	23.1	0.6	0.9		225	4.5	0.013	0.002	0.012	0.014	18.6	22.78	85
8/8/05 7:00	0.04517	23.5	1	0.9		225	4.9	0.03	0.001	0.009	0.011	18.8	26.11	68
8/8/05 8:00	0.045	26.8	5.9	0.9		0	3.1	0.045	0.001	0.008	0.009	18.7	28.89	54
8/8/05 9:00														

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
8/4/05 18:00	197	0.44704	31.7	23.7	20	50	2.57	210	989.84	28	28.1	0.1
8/4/05 19:00	241	0.44704	31.1	23.5	20	52	2.57	230	990.86	26.7	27	0.4
8/4/05 20:00	246	0.44704	28.3	23.8	21.7	67	2.57	320	991.87	25.9	26.4	0.5
8/4/05 21:00	199	0.89408	26.7	23.6	22.2	76	2.57	360	992.21	25.6	26.2	0.6
8/4/05 22:00	134	0.44704	26.7	23.3	21.7	74	1.54	350	992.55	25.6	26.1	0.5
8/4/05 23:00	170	0.44704	25	22.8	21.7	82	2.06	340	992.55	25	25.6	0.6
8/5/05 0:00	108	1.34112	26.1	21.7	19.4	67	4.63	20	992.55	24.2	24.5	0.3
8/5/05 1:00	148	1.34112	23.9	21	19.4	76	2.57	330	992.55	23.9	24.2	0.4
8/5/05 2:00	84	1.34112	23.3	20.8	19.4	79	2.57	350	992.89	23.4	23.7	0.3
8/5/05 3:00	42	1.78816	23.3	21.1	20	82	2.57	20	993.57	23	23.2	0.3
8/5/05 4:00	34	2.2352	23.9	21.3	20	79	3.60	50	993.90	22.2	22.4	0.2
8/5/05 5:00	41	2.2352	22.2	20.8	20	87	3.60	360	994.24	21.7	22	0.2
8/5/05 6:00	39	2.68224	23.3	20.8	19.4	79	4.12	360	994.58	21.9	21.9	-0.1
8/5/05 7:00	42	3.12928	25	21.3	19.4	71	4.12	30	994.58	23	22.6	-0.4
8/5/05 8:00	42	3.12928	26.7	21.9	19.4	64	4.63	30	994.92	24.1	23.4	-0.6
8/5/05 9:00	52	3.12928	27.8	22.2	19.4	60	4.12	360	994.92	25.8	24.8	-1
8/5/05 10:00	54	3.12928	29.4	22.7	19.4	55	4.63	70	994.92	26.8	25.6	-1.2
8/5/05 11:00	67	2.68224	30.6	23	19.4	51	4.63	10	994.58	28.5	27.4	-1.2
8/5/05 12:00	59	2.68224	31.7	23.1	18.9	47	3.60	10	993.90	30.4	29.2	-1.3
8/5/05 13:00	74	3.12928	33.9	23.9	19.4	42	3.09	10	992.89	32.5	31	-1.5
8/5/05 14:00	57	3.12928	35	23.6	18.3	37	4.12	20	992.21	33	31.7	-1.3
8/5/05 15:00	58	3.12928	35	23.3	17.8	36	2.57	0	991.53	32.9	32	-0.9
8/5/05 16:00	50	3.12928	35	23.6	18.3	37	4.63	30	991.20	32.8	32.2	-0.6
8/5/05 17:00	60	3.12928	28.3	22.1	18.9	57	6.17	160	992.21	31.7	31.5	-0.2
8/5/05 18:00	151	2.68224	26.1	21	18.3	62	6.69	160	992.55	30.4	30.4	0.1
8/5/05 19:00	182	1.34112	25	22.1	20.6	77	4.12	210	992.55	25.6	25.7	0
8/5/05 20:00	280	0.89408	25	21.3	19.4	71	4.12	310	992.89	23.6	24.4	0.7
8/5/05 21:00	304	2.2352	25	20.7	18.3	66	0.00	0	993.57	23.8	24.2	0.4
8/5/05 22:00	173	0.89408	23.9	21	19.4	76	2.06	50	994.24	23.4	23.7	0.3
8/5/05 23:00	124	0.89408	23.9	21.3	20	79	2.06	350	994.24	23.1	23.4	0.3
8/6/05 0:00	112	0.44704	23.3	21.1	20	82	2.06	290	993.23	22.6	22.9	0.4
8/6/05 1:00	226	0.44704	22.8	20.6	19.4	81	2.57	320	992.89	21.7	22.2	0.5
8/6/05 2:00	128	0.89408	21.7	19.9	18.9	84	2.06	340	992.55	21.2	21.8	0.5
8/6/05 3:00	132	0.89408	20.6	19.5	18.9	90	2.57	350	992.55	20.7	21.3	0.5
8/6/05 4:00	44	1.34112	20.6	19.8	19.4	93	2.57	10	992.55	20.2	20.5	0.4
8/6/05 5:00	61	0.89408	20.6	19.5	18.9	90	0.00	0	992.89	20	20.3	0.3
8/6/05 6:00	47	0.89408	22.2	20.8	20	87	0.00	0	993.57	20.8	20.6	-0.2
8/6/05 7:00	91	0.44704	24.4	21.5	20	77	1.54	40	993.57	22.8	22.2	-0.6
8/6/05 8:00	104	0.89408	26.7	22.2	20	67	0.00	0	993.57	24.7	24	-0.7
8/6/05 9:00	113	0.89408	28.3	22.7	20	61	0.00	0	993.57	26.3	25.7	-0.6
8/6/05 10:00	103	1.34112	30.6	23	19.4	51	0.00	0	993.23	28	27.1	-0.9
8/6/05 11:00	187	0.89408	32.2	22.6	17.8	42	0.00	0	992.55	29.7	28.7	-1
8/6/05 12:00	127	1.34112	32.2	22.9	18.3	44	1.54	0	992.21	30.9	29.9	-1
8/6/05 13:00	194	1.34112	33.3	22.9	17.8	40	2.06	0	990.86	32.5	31.1	-1.4
8/6/05 14:00	227	1.34112	34.4	22.6	16.7	35	3.09	0	989.84	33.1	31.7	-1.3
8/6/05 15:00	243	1.34112	33.9	22.7	17.2	37	3.09	0	989.16	33.8	32.6	-1.2
8/6/05 16:00	224	1.34112	34.4	22.6	16.7	35	0.00	0	988.83	33.6	32.7	-0.8
8/6/05 17:00	227	0.89408	33.9	22.7	17.2	37	0.00	0	988.83	33.7	33.1	-0.6
8/6/05 18:00	271	0.89408	32.2	22.6	17.8	42	4.63	150	989.50	31.9	31.9	0
8/6/05 19:00	206	1.34112	30	22.8	19.4	53	3.09	0	989.50	29.1	30.3	1.2
8/6/05 20:00	159	0.89408	27.8	22.6	20	63	5.14	150	990.52	28.3	28.9	0.7
8/6/05 21:00	159	0.89408	26.1	21.7	19.4	67	4.12	150	990.86	26.5	26.9	0.4
8/6/05 22:00	161	1.34112	26.1	22	20	69	2.57	190	991.20	25.1	25.5	0.4
8/6/05 23:00	189	0.44704	25	21.3	19.4	71	3.09	170	990.86	24.1	24.6	0.5
8/7/05 0:00	218	0	24.4	21.1	19.4	74	2.06	200	990.52	23.2	24	0.8
8/7/05 1:00	124	0.44704	22.8	20.6	19.4	81	2.06	140	990.52	22.5	23.4	0.9
8/7/05 2:00	126	0.44704	22.2	20.8	20	87	1.54	150	990.52	22	22.8	0.8
8/7/05 3:00	174	0	22.2	20.8	20	87	2.06	140	990.52	21.6	22.4	0.8
8/7/05 4:00	110	0	22.8	21	20	84	2.06	160	990.86	21.3	21.7	0.5
8/7/05 5:00	119	0	22.8	21.3	20.6	87	2.06	150	991.53	20.7	21.2	0.5
8/7/05 6:00	136	0.44704	23.3	21.5	20.6	85	2.57	170	991.87	21.4	21.3	-0.1
8/7/05 7:00	180	0.44704	25	22.1	20.6	77	2.57	200	992.21	23.6	23.1	-0.5
8/7/05 8:00	194	0.89408	27.2	22.4	20	65	2.06	160	991.87	25.9	24.9	-1
8/7/05 9:00	197	0.89408	30	22.8	19.4	53	1.54	0	991.87	28.6	27.2	-1.4
8/7/05 10:00	190	0.89408	31.7	23.3	19.4	48	3.60	200	991.53	30.9	29.4	-1.5
8/7/05 11:00	191	0.89408	32.8	23	18.3	42	2.57	0	991.20	32.3	30.7	-1.6
8/7/05 12:00	169	1.78816	33.9	22.7	17.2	37	4.12	200	990.52	33.3	31.7	-1.6
8/7/05 13:00	174	1.34112	35	23	17.2	35	4.63	160	989.50	34.3	32.7	-1.6
8/7/05 14:00	195	1.34112	35	23	17.2	35	3.09	0	988.15	34.5	33.1	-1.5
8/7/05 15:00	194	1.34112	35.6	23.2	17.2	34	4.63	200	987.81	34.5	33.4	-1.1
8/7/05 16:00	228	0.89408	35	23	17.2	35	3.09	180	987.13	34.7	33.6	-1
8/7/05 17:00	201	1.34112	33.9	23.1	19.4	44	2.06	200	990.52	33.8	33.3	-0.5
8/7/05 18:00	198	0.89408	33.3	22.3	16.7	37	3.60	160	987.47	32.2	32	0.2
8/7/05 19:00	183	0.89408	32.2	21.7	16.1	38	2.57	170	988.49	30	31	1
8/7/05 20:00	185	0.44704	31.1	21.9	17.2	43	3.60	190	988.83	28.1	29.9	1.8
8/7/05 21:00	183	0	30.6	21.8	17.2	45	3.09	170	989.16	27.3	29	1.7
8/7/05 22:00	218	0.44704	28.9	22.9	20	59	2.06	240	989.84	26.5	27.5	1
8/7/05 23:00	217	0.44704	27.8	22.2	19.4	60	2.57	0	989.50	25.2	26.3	1.2
8/8/05 0:00	206	0	27.2	22	19.4	62	1.54	200	989.16	24.1	25.7	1.6
8/8/05 1:00	204	0.44704	26.1	21.7	19.4	67	5.14	210	989.16	22.8	24.9	2.1
8/8/05 2:00	242	0.44704	25	21.3	19.4	71	2.57	260	989.50	21.8	23.1	1.4
8/8/05 3:00	237	0.44704	24.4	21.1	19.4	74	2.57	260	989.16	22.2	23.3	1.1
8/8/05 4:00	204	0.44704	22.8	20.6	19.4	81	0.00	0	989.84	22.4	23	0.6
8/8/05 5:00	172	0	23.9	21	19.4	76	0.00	0	990.18	21.4	22.2	0.8
8/8/05 6:00	263	0.44704	25	21.3	19.4	71	0.00	0	990.52	22.4	22.5	0.1
8/8/05 7:00	195	0.44704	26.7	21.6	18.9	62	0.00	0	990.52	25.5	24.8	-0.7
8/8/05 8:00	150	0.44704	28.9	21.6	17.8	51	0.00	0	990.52	28.2	27.3	-0.8
8/8/05 9:00	211	0.89408	31.1	22.5	18.3	46	2.06	0	990.86	29.7	28.6	-1.1
8/8/05 10:00	202	1.34112	32.8	23.3	18.9	44	4.12	160	990.52	31.3	29.8	-1.5
8/8/05 11:00	187	1.78816	33.3	22.9	17.8	40	3.60	180	989.84	32.5	30.8	-1.7
8/8/05 12:00	192	1.78816	33.9	23.3	18.3	40	4.12	180	989.50	33.8	32.1	-1.8
8/8/05 13:00	189	1.78816	35.6	23.5	17.8	35	3.09	0	988.83	34.4	32.7	-1.7
8/8/05 14:00	196	1.34112	36.1	23.1	16.7	32	1.54	0	987.81	34.8	33.3	-1.5
8/8/05 15:00	172	1.34112	35	23	17.2	35	2.57	0	987.13	35.1	33.8	-1.4
8/8/05 16:00	204	1.34112	34.4	22.6	16.7	35	0.00	0	986.79	35.3	34.2	

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS ₅₀₀ (m/s)	WS _{500V}	WDIR	WDIR _{REV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
8/4/05 18:00	73.9	0.7	1.5	0.8	2.6	0.3	228.7	10.7	70.7	0.25	0	983.08
8/4/05 19:00	75.1	1	2	1	3.8	0.4	264.1	11.5	3.5	0.01	0	984.15
8/4/05 20:00	76.7	0.7	1.6	0.9	3.4	0.3	287.9	10.5	0	0	0	984.86
8/4/05 21:00	76.3	0.9	1.9	1	5.5	0.5	222.9	18.6	0	0	0	985.54
8/4/05 22:00	72.6	1.3	2.4	1.1	4.8	0.5	146.3	11.2	0	0	0	985.79
8/4/05 23:00	72.8	1.2	2	0.8	4.5	0.5	45.3	12	0	0	0	986.14
8/5/05 0:00	71.3	2.1	2.9	0.9	6.3	0.7	35	13.5	0	0	0	986.38
8/5/05 1:00	74.3	1.9	2.7	0.9	5.1	0.6	25.3	11.2	0	0	0	986.53
8/5/05 2:00	76.7	2.2	3.1	0.9	5.2	0.6	22.4	11.5	0	0	0	986.55
8/5/05 3:00	78.1	2.5	3.6	1	6.5	0.8	33	14.3	0	0	0	986.97
8/5/05 4:00	81.4	2.4	3.3	1	5.9	0.8	35.3	14.4	0	0	0	987.48
8/5/05 5:00	82.8	2.2	3.1	0.9	5.7	0.8	26.3	14.4	6.3	0.02	0	987.95
8/5/05 6:00	83.6	2.8	3.8	1	7.1	0.9	27.3	13.7	90.6	0.33	0	988.26
8/5/05 7:00	79	3.1	4.1	1	7.2	1	36.5	14.3	236.9	0.85	0	988.47
8/5/05 8:00	74.1	3.1	4	1	7.4	1	35	14.5	362.1	1.3	0	988.51
8/5/05 9:00	67.2	2.7	3.6	0.9	6.5	0.9	34.6	16.2	539.8	1.94	0	988.73
8/5/05 10:00	62.7	3	4	1	6.8	0.9	30.7	14.2	701.4	2.53	0	988.71
8/5/05 11:00	57.1	2.3	3.1	0.8	5.7	0.8	38.3	16.5	706.8	2.54	0	988.48
8/5/05 12:00	50.5	1.7	2.4	0.7	5.2	0.8	39.8	22.5	773.8	2.79	0	987.94
8/5/05 13:00	44.2	2	2.7	0.7	6.3	0.9	28.2	22.2	890.9	3.21	0	987.01
8/5/05 14:00	42.2	2.6	3.6	0.9	8.1	1	62.4	18.9	796.8	2.87	0	986.34
8/5/05 15:00	40.9	2.4	3.3	0.9	6.5	0.9	41.9	17.7	597.7	2.15	0	985.59
8/5/05 16:00	40.9	2.4	3.3	0.9	6.5	0.9	41.6	15.7	448.3	1.61	0	985.14
8/5/05 17:00	44.7	2.3	3.1	0.8	6.9	0.8	34.6	14.6	220.5	0.79	0	985.04
8/5/05 18:00	48.7	2.2	3.1	0.9	10.9	0.9	70.6	15	99	0.36	0	985.24
8/5/05 19:00	63	2	2.9	0.9	7.6	0.8	148.2	16.5	3.4	0.01	0	986.3
8/5/05 20:00	76.9	0.7	1.6	0.9	3.4	0.4	197.5	10.8	0	0	0.01	986.55
8/5/05 21:00	77.1	1.4	2.2	0.8	4	0.5	253.3	14.5	0	0	0	986.79
8/5/05 22:00	79.5	1.6	2.3	0.8	5.2	0.6	255.3	16	0	0	0	987.41
8/5/05 23:00	79.1	1.8	2.7	0.9	5.6	0.8	280.8	17	0	0	0	987.6
8/6/05 0:00	76.6	1.6	2.5	1	5	0.6	320.6	12.7	0	0	0	987.17
8/6/05 1:00	75.5	1.3	2.3	1	4.3	0.5	122.6	10.8	0	0	0	986.77
8/6/05 2:00	76.8	1.4	2.2	0.8	4.1	0.4	28.9	9.7	0	0	0	986.15
8/6/05 3:00	78	1.3	2.1	0.8	3.7	0.4	30.4	9.7	0	0	0	986.09
8/6/05 4:00	80.4	1.8	2.6	0.8	4.5	0.5	37.7	9.9	0	0	0	985.93
8/6/05 5:00	83.8	1.5	3	0.9	4.6	0.4	38.3	9.1	3.8	0.01	0	986.23
8/6/05 6:00	83.6	1.1	2.1	0.6	4.4	0.4	58.3	11.5	105.5	0.38	0	986.73
8/6/05 7:00	82.4	1.4	2	0.6	3.4	0.4	74.5	14	258.6	0.93	0	987.06
8/6/05 8:00	75	1	1.6	0.6	3.6	0.4	78.4	17.3	302.8	1.09	0	987.24
8/6/05 9:00	68.4	0.3	0.7	0.4	1.8	0.3	107.2	21.1	333.7	1.2	0	987.12
8/6/05 10:00	60.7	0.7	1.3	0.6	2.6	0.4	95.2	20.2	521.6	1.88	0	987.01
8/6/05 11:00	50.7	0.7	1.1	0.4	2.8	0.4	119.7	20.1	592.8	2.13	0	986.59
8/6/05 12:00	45.1	0.7	1.1	0.4	3.4	0.3	203.6	27	696.7	2.51	0	985.95
8/6/05 13:00	39.5	0.9	1.2	0.3	3.4	0.5	152.6	33.1	848	3.05	0	985.06
8/6/05 14:00	37	1.2	1.7	0.4	4	0.7	149.8	23.6	774.8	2.79	0	984.08
8/6/05 15:00	34.5	0.9	1.4	0.5	3.2	0.5	172.8	24.9	649.6	2.34	0	983.13
8/6/05 16:00	33.6	1	1.5	0.5	4	0.5	101.1	19	468.5	1.69	0	982.66
8/6/05 17:00	33.6	0.2	0.6	0.4	1.7	0.3	216.5	21.8	279.8	1.01	0	982.33
8/6/05 18:00	42.3	0.1	0.9	0.8	2.7	0.2	172.1	12.7	100.3	0.36	0	982.64
8/6/05 19:00	50.5	0.1	1.1	0.9	2.8	0.3	84	10.3	4.8	0.02	0	982.97
8/6/05 20:00	53.7	1.3	2.3	1.1	6.3	0.6	110.8	13.3	0	0	0	983.33
8/6/05 21:00	65.8	2	3	0.9	4.9	0.6	161.2	13	0	0	0	983.63
8/6/05 22:00	71.9	1.6	2.4	0.8	5.1	0.6	148	12.9	0	0	0	984.13
8/6/05 23:00	75.8	1.3	2.2	0.9	3.9	0.4	195.2	10.8	0	0	0	984.03
8/7/05 0:00	80.3	1	2.1	1.1	3.6	0.3	183.7	7.4	0	0	0	983.66
8/7/05 1:00	82.2	0.4	1.6	1.1	3	0.2	165.2	8.6	0	0	0	983.58
8/7/05 2:00	84.7	0.3	1.5	1.2	3	0.3	183.9	10	0	0	0	983.54
8/7/05 3:00	87.8	0.2	1.5	1.2	2.9	0.2	157.6	9	0	0	0	983.57
8/7/05 4:00	89.3	0.2	1.1	0.9	2.3	0.3	152.8	10.6	0	0	0	983.83
8/7/05 5:00	92.1	0.4	1.5	1	2.7	0.2	128.3	8.3	5.5	0.02	0	984.32
8/7/05 6:00	92.3	0.8	1.6	0.8	3.1	0.3	133.7	12.5	88.9	0.32	0	984.81
8/7/05 7:00	84.6	1.1	1.7	0.6	3.3	0.3	159.5	12.9	261.5	0.94	0	985.09
8/7/05 8:00	74.3	1.8	2.5	0.7	4.9	0.6	168.8	14.2	453.9	1.63	0	985.25
8/7/05 9:00	63.9	1.5	2.1	0.6	4.1	0.6	173.9	17	632.8	2.28	0	985.25
8/7/05 10:00	53.5	1.2	1.7	0.5	3.7	0.6	159.9	24.1	773.5	2.78	0	985.03
8/7/05 11:00	45.1	1.7	2.3	0.6	4.8	0.8	180.7	25	820	2.95	0	984.68
8/7/05 12:00	41.6	1.9	2.5	0.6	5.5	0.8	179.1	19.8	835.4	3.01	0	984.05
8/7/05 13:00	36.3	1.9	2.5	0.6	5.5	0.9	168.3	22.9	863	3.11	0	983.17
8/7/05 14:00	35.1	1.6	2.2	0.6	4.8	0.8	152.1	27.4	751.4	2.71	0	982.2
8/7/05 15:00	34.2	1.4	2	0.6	5	0.7	168.9	25.8	550.8	1.98	0	981.52
8/7/05 16:00	33.1	1.3	1.9	0.6	4.5	0.6	143.8	26.5	483.8	1.74	0	981.04
8/7/05 17:00	36.1	1.5	2.3	0.8	6.2	0.5	200.1	13.3	281.9	1.01	0	980.75
8/7/05 18:00	40.9	0.8	1.7	0.9	3.5	0.3	162.7	11	90.3	0.33	0	980.83
8/7/05 19:00	46.8	0.2	1.4	1.2	2.9	0.3	161.8	9.8	4.3	0.02	0	981.44
8/7/05 20:00	55.6	0.3	1.9	1.6	3.2	0.3	196.8	7.2	0	0	0	982.26
8/7/05 21:00	59.4	0.3	1.9	1.6	3.3	0.3	161.3	7.7	0	0	0	982.47
8/7/05 22:00	64.8	1.2	2.3	1.1	4.8	0.3	196.7	8.1	0	0	0	982.69
8/7/05 23:00	72.3	0.8	1.8	1	2.8	0.2	213.7	5.5	0	0	0	982.65
8/8/05 0:00	76.7	0.2	1.2	1	3.3	0.2	221.7	10.7	0	0	0	982.75
8/8/05 1:00	82.5	0.1	1	0.9	3.7	0.3	198.5	14.4	0	0	0	982.45
8/8/05 2:00	87.6	0.2	1	0.8	2.3	0.3	184.8	19.2	0	0	0	982.76
8/8/05 3:00	87.3	0.4	1.5	1.2	2.6	0.2	214.7	8.3	0	0	0	982.72
8/8/05 4:00	84	1.1	2.1	1	3.4	0.3	231.1	9.4	0	0	0	982.85
8/8/05 5:00	88.3	0.3	1.4	1.1	2.7	0.2	227.4	7.6	4	0.01	0	983.28
8/8/05 6:00	88.1	0.6	1.6	0.9	3	0.3	216.8	8	107.9	0.39	0	983.63
8/8/05 7:00	72.4	1.3	1.8	0.5	3.4	0.3	221.7	18.8	320	1.15	0	983.79
8/8/05 8:00	60.2	0.4	0.8	0.4	2.1	0.3	208.6	24.3	406.2	1.46	0	983.83
8/8/05 9:00	53.6	0.7	1.1	0.4	3.5	0.4	198.5	23	569.1	2.05	0	983.98
8/8/05 10:00	47.1	1.9	2.5	0.6	4.9	0.7	161.9	19.3	783.9	2.82	0	983.98
8/8/05 11:00	44.7	2.2	2.9	0.7	6	0.9	144.4	21.8	860.6	3.1	0	983.41
8/8/05 12:00	37.5	2.3	3	0.7	6.4	0.9	154.5	17.2	890.2	3.2	0	982.99
8/8/05 13:00	36.3	2	2.7	0.7	6.5	0.9	185.9	21.7	811.8	2.92	0	982.59
8/8/05 14:00	33.6	2	2.6	0.6	5.8	0.9	153.3	20.3	763.9	2.75	0	981.58
8/8/05 15:00	31.7	1.6	2.2	0.6	6	0.8	154.9	21.8	637.1	2.29	0	980.93
8/8/05 16:00	30.4	1.1	1.6	0.5	4.8	0.7	191.6	24.2	486.8	1.75	0	980.59
8/8/05 17:00	31.7	1	1.7	0.7	3.3	0.5	151.1	16.2	296.2	1.07	0	980.31
8/8/05 18:00	37.8	0.6	1.6	1	3.1	0.3	138.8	11.6	91.3	0.33	0	980.48
8/8/05 19:00	47.8	0.7	1.9	1.2	3.4	0.4	174.5	10.9	6.3	0.02	0	980.91
8/8/05 20:00	49.8	0.5	1.7	1.3	3.5	0.3	169.3	9.5	0	0	0	981.36
8/8/05 21:00	56.3	1.2	2.5	1.3	4.2	0.4	192.8	8.5	0	0	0	98

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
8/9/05 9:00	0.02641	30.3	7.4	0.4	202.5	2.7	0.041	0.004	0.017	0.021	24.9	30.00	56	
8/9/05 10:00	0.03544	35.8	3.6	0.9	180	3.1	0.06	0.001	0.012	0.013	23.6	31.67	49	
8/9/05 11:00	0.06469	37.6	2.6	1.8	202.5	4.5	0.071	0	0.006	0.006	20	32.78	45	
8/9/05 12:00	0.06116	40	5.3	1.3	202.5	4.9	0.071	0	0.004	0.003	22.8	33.89	41	
8/9/05 13:00	0.07006	40.1	4.2	2.2	202.5	6.3	0.071	0	0.004	0.004	23.3	34.44	41	
8/9/05 14:00	0.07028	37.3	2.7	3.1	202.5	7.6	0.067	0	0.003	0.003	25.1	35.00	37	
8/9/05 15:00	0.06678	37.1	3.2	2.7	202.5	6.3	0.07	0	0.005	0.005	27.2	35.00	35	
8/9/05 16:00	0.07223	34.5	4.8	2.7	202.5	5.8	0.07	0	0.005	0.005	27.7	35.56	34	
8/9/05 17:00	0.07108	32.8	0.9	2.2	202.5	4.9	0.067	0	0.007	0.007	25.5	35.00	33	
8/9/05 18:00	0.06595	32.4	1.5	1.8	202.5	5.8	0.06	0	0.008	0.008	23	33.89	36	
8/9/05 19:00	0.06933	30.8	1.4	1.8	202.5	4.5	0.047	0	0.014	0.013	25.1	31.11	43	
8/9/05 20:00	0.05806	29.6	1.6	2.2	0	4.9	0.042	0	0.013	0.013	23.9	28.89	54	
8/9/05 21:00	0.05469	28.1	0.7	1.8	0	4.9	0.017	0.003	0.029	0.033	25.7	27.22	64	
8/9/05 22:00	0.04763	27.7	0.7	1.3	22.5	4.5	0.015	0	0.024	0.023	27.4	26.11	70	
8/9/05 23:00	0.04513	26.9	0.4	0.9	22.5	3.1	0.003	0.004	0.029	0.033	26.7	25.00	75	
8/10/05 0:00	0.04484	26.5	0.4	0.4	45	2.2	0.002	0.004	0.026	0.03	26.9	24.44	79	
8/10/05 1:00	0.04149	26.4	0.5	1.3	0	6.7	0.008	0	0.019	0.019	24.8	24.44	78	
8/10/05 2:00	0.0519	26.1	0.8	2.7	0	7.2	0.004	0	0.017	0.017	26.1	23.33	83	
8/10/05 3:00	0.04661	25.8	0.5	3.1	0	8.5	0.001	0.002	0.017	0.018	26.3	22.78	85	
8/10/05 4:00	0.04576	25.5	0.6	4.5	0	9.4	0.002	0.004	0.015	0.02	26.2	22.78	86	
8/10/05 5:00	0.04826	24.9	0.4	4.5	337.5	8.5	0.001	0.011	0.017	0.028	27.5	22.78	85	
8/10/05 6:00	0.05393	24.5	0.7	0.9	90	5.8	0.001	0.024	0.015	0.039	28.1	22.78	85	
8/10/05 7:00	0.04656	24.7	1	1.8	292.5	4.5	0.026	0.006	0.017	0.023	30.3	27.22	68	
8/10/05 8:00	0.03051	26.4	2.9	1.8	292.5	4.9	0.049	0	0.007	0.007	25.1	29.44	58	
8/10/05 9:00	0.0288	30.4	4.6	1.3	0	3.6	0.061	0	0.006	0.006	21.8	31.11	52	
8/10/05 10:00	0.04903	35.1	4.7	0.9	90	3.6	0.071	0	0.003	0.003	20.3	32.22	48	
8/10/05 11:00	0.06684	38.8	4.3	1.3	202.5	4	0.082	0	0.007	0.006	24.1	32.78	45	
8/10/05 12:00	0.07851	41.3	2.2	1.3	202.5	4	0.085	0	0.005	0.005	26.9	33.89	41	
8/10/05 13:00	0.08413	40.3	2.5	2.2	202.5	5.8	0.081	0	0.005	0.004	31.3	35.00	38	
8/10/05 14:00	0.07287	39.1	3	2.2	202.5	5.8	0.074	0	0.004	0.003	26.6	35.56	35	
8/10/05 15:00	0.06847	37.6	3.6	2.7	202.5	8.5	0.07	0	0.004	0.003	27.3	35.56	33	
8/10/05 16:00	0.07096	35.1	3.2	2.7	202.5	7.6	0.064	0	0.003	0.003	28	35.56	33	
8/10/05 17:00	0.06785	33.6	1.7	2.7	202.5	6.7	0.063	0	0.003	0.003	29.2	35.56	32	
8/10/05 18:00	0.06833	32.3	1.3	2.7	202.5	6.3	0.061	0	0.004	0.004	27.2	33.89	35	
8/10/05 19:00	0.07126	31	1.2	2.7	180	5.8	0.051	0	0.01	0.009	27.4	31.67	43	
8/10/05 20:00	0.06997	30.1	0.6	3.1	202.5	5.4	0.032	0.001	0.025	0.026	28.2	28.89	53	
8/10/05 21:00	0.0721	29.8	0.3	4	202.5	7.2	0.012	0.003	0.034	0.037	30.2	27.22	61	
8/10/05 22:00	0.07015	29.8	0.6	4	202.5	5.8	0.001	0.007	0.039	0.046	34.1	26.11	69	
8/10/05 23:00	0.04617	29.3	1.2	4	202.5	6.3	0.001	0.011	0.033	0.044	32.8	25.00	74	
8/11/05 0:00	0.05241	28.1	1.5	3.1	22.5	8.5	0.017	0	0.026	0.025	26.3	26.11	67	
8/11/05 1:00	0.03677	27.1	0.9	3.6	0	7.2	0.029	0	0.01	0.009	32.2	26.67	65	
8/11/05 2:00	0.03579	26.2	1.1	4	0	8	0.031	0	0.006	0.006	27.1	26.11	67	
8/11/05 3:00	0.03069	25.4	0.5	4.5	337.5	9.4	0.032	0	0.006	0.005	24.8	25.56	68	
8/11/05 4:00	0.03762	25	0.6	4	0	9.4	0.021	0.001	0.011	0.012	27.9	24.44	74	
8/11/05 5:00	0.02793	24.3	0.8	3.1	0	7.2	0.016	0	0.015	0.015	27.8	23.33	77	
8/11/05 6:00	0.03103	23.8	0.2	2.7	0	6.3	0.012	0.003	0.022	0.025	29.6	24.44	75	
8/11/05 7:00	0.0235	23.4	0.6	1.8	180	5.8	0.016	0.006	0.023	0.029	26.6	26.67	66	
8/11/05 8:00	0.0251	24.4	3.2	1.8	180	6.3	0.033	0.002	0.011	0.013	23.9	28.89	60	
8/11/05 9:00	0.03057	27.5	3.1	2.2	180	6.7	0.039	0.001	0.007	0.008	22.8	30.56	54	
8/11/05 10:00	0.04113	29.5	3.2	3.1	180	8.9	0.045	0	0.004	0.004	22.3	32.22	47	
8/11/05 11:00	0.04308	32.6	3.1	2.7	202.5	8.5	0.045	0	0.004	0.005	21.8	33.33	43	
8/11/05 12:00	0.04371	32.7	2.7	5.8	202.5	10.3	0.042	0.001	0.004	0.005	23.5	34.44	38	
8/11/05 13:00	0.04581	33.1	3.4	5.8	202.5	12.1	0.045	0	0.003	0.003	21.1	34.44	39	
8/11/05 14:00	0.04518	33	1.9	5.4	202.5	11.6	0.047	0	0.004	0.004	22.4	35.00	37	
8/11/05 15:00	0.04943	32.3	1.7	5.4	180	11.2	0.048	0	0.004	0.004	24.5	35.00	37	
8/11/05 16:00	0.04995	31.9	0.7	4.5	202.5	10.3	0.049	0	0.003	0.002	25	35.00	37	
8/11/05 17:00	0.04965	32	0.9	3.6	180	11.2	0.047	0	0.003	0.003	22.2	34.44	38	
8/11/05 18:00	0.04988	31.3	1	3.1	180	8.9	0.047	0	0.004	0.004	25.3	33.89	39	
8/11/05 19:00	0.05221	30.6	1	3.1	180	9.8	0.039	0	0.011	0.01	23.8	31.67	46	
8/11/05 20:00	0.0529	29.6	0.8	1.8	0	7.6	0.034	0	0.012	0.012	24.9	30.56	51	
8/11/05 21:00	0.04469	29.1	0.9	4.5	180	9.4	0.034	0	0.012	0.011	28.1	30.00	54	
8/11/05 22:00	0.04135	28.4	0.7	7.2	180	10.7	0.038	0	0.006	0.006	28.7	29.44	58	
8/11/05 23:00	0.04224	28.1	0.3	7.2	180	11.2	0.034	0	0.011	0.01	30.9	28.89	61	
8/12/05 0:00	0.04394	27.7	0.7	6.7	180	11.2	0.029	0	0.013	0.013	32	27.78	65	
8/12/05 1:00	0.04542	27.1	1	4.9	180	11.2	0.033	0	0.008	0.007	33.1	27.78	64	
8/12/05 2:00	0.03821	26.2	0.7	4.9	180	12.1	0.021	0	0.014	0.014	37.2	27.22	63	
8/12/05 3:00	0.03159	25.6	0.6	3.1	22.5	8.9	0.015	0	0.016	0.015	40.1	27.22	63	
8/12/05 4:00	0.02482	25.1	0.6	2.7	0	7.6	0.014	0	0.013	0.013	39.9	26.11	65	
8/12/05 5:00	0.02385	24.6	0.5	2.2	180	8.9	0.009	0	0.018	0.017	38.7	25.56	67	
8/12/05 6:00	0.01965	24.3	0.2	2.7	157.5	10.3	0.012	0.001	0.014	0.015	38.4	26.11	66	
8/12/05 7:00	0.01899	24.2	0.2	3.6	180	9.4	0.014	0.004	0.013	0.017	39.5	28.33	60	
8/12/05 8:00	0.01956	25.1	2.8	3.1	180	10.7	0.012	0.002	0.009	0.011	37.2	30.56	53	
8/12/05 9:00	0.02065	28.5	3.5	2.7	0	8.5	0.033	0	0.004	0.004	33.5	32.22	45	
8/12/05 10:00	0.02737	32.4	4.8	3.1	0	8.9	0.041	0	0.002	0.002	32	34.44	38	
8/12/05 11:00	0.03396	36.4	3.5	3.1	0	8.5	0.044	0	0.002	0.002	33.4	35.56	34	
8/12/05 12:00	0.04104	37.3	2.9	3.1	0	11.6	0.043	0	0.002	0.001	30.7	36.67	33	
8/12/05 13:00	0.04299	35.8	3.6	3.1	0	9.4	0.042	0	0.003	0.003	28.3	36.11	33	
8/12/05 14:00	0.03866	35.4	3.4	4.9	202.5	11.6	0.042	0	0.004	0.004	31.1	37.22	33	
8/12/05 15:00	0.04094	34.6	1.9	5.4	180	12.5	0.044	0	0.004	0.004	28.8	37.22	33	
8/12/05 16:00	0.04478	33.9	2	6.7	202.5	14.3	0.044	0	0.004	0.004	28.5	36.67	33	
8/12/05 17:00	0.04667	32.9	0.6	6.7	180	14.3	0.039	0	0.003	0.003	23.7	33.33	39	
8/12/05 18:00	0.04034	31.5	4.7	4.5	292.5	12.5	0.035	0	0.003	0.003	18.7	28.33	51	
8/12/05 19:00	0.04047	27.8	1	2.7	292.5	8.5	0.019	0.002	0.015	0.017	18.7	27.22	57	
8/12/05 20:00	0.0232	27.9	1.2	1.8	180	4.5	0.015	0.002	0.017	0.02	18.1	26.11	62	
8/12/05 21:00	0.02321	28.9	1.2	4.5	202.5	8	0.005	0.007	0.025	0.032	19.1	26.11	64	
8/12/05 22:00	0.03038	29.5	0.6	7.6	180	12.1	0.005	0.004	0.023	0.027	20	26.11	64	
8/12/05 23:00	0.03013	29.6	0.7	9.8	180	14.3	0							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,800} (°C)	
8/9/05 9:00	171	0.89408	30	22.8	19.4	53	0.00	0	991.20	29.4	28.1	-1.4
8/9/05 10:00	170	1.34112	31.7	23	18.9	47	3.09	120	990.52	31	29.5	-1.6
8/9/05 11:00	197	1.34112	32.8	23.6	19.4	45	2.06	45	990.18	32.2	30.6	-1.6
8/9/05 12:00	201	1.78816	33.3	23.8	19.4	44	4.12	180	989.50	33.4	31.6	-1.8
8/9/05 13:00	186	1.78816	34.4	24.1	18.4	41	5.14	170	988.49	34.1	32.4	-1.7
8/9/05 14:00	186	1.78816	35	23.6	18.3	37	3.60	190	987.81	34.6	32.9	-1.8
8/9/05 15:00	187	1.78816	34.4	22.9	17.2	36	3.60	180	987.47	34.6	33.2	-1.3
8/9/05 16:00	201	1.34112	35	23.3	17.8	36	3.60	160	987.13	34.5	33.5	-1.1
8/9/05 17:00	195	1.34112	34.4	22.9	17.2	36	1.54	180	986.45	33.6	33.1	-0.5
8/9/05 18:00	186	0.89408	33.3	22.3	16.7	37	3.60	180	986.12	31.9	32.3	0.4
8/9/05 19:00	197	0.44704	32.2	22.2	17.2	41	3.60	160	986.79	28.7	30.4	1.7
8/9/05 20:00	257	0	31.1	22.2	17.8	45	2.57	200	987.47	26.9	29	2.1
8/9/05 21:00	224	0	31.1	22.9	18.9	48	1.54	220	988.49	26.2	28.3	2
8/9/05 22:00	152	0	29.4	22.4	18.9	53	0.00	0	989.16	25.5	27.9	2.4
8/9/05 23:00	172	0	27.2	22	19.4	62	0.00	0	989.16	25	27.6	2.7
8/10/05 0:00	152	0	25.6	21.5	19.4	69	2.06	140	989.16	24.4	27.2	2.7
8/10/05 1:00	152	0.44704	26.7	22.2	20	67	1.54	190	989.16	23.7	26.3	2.6
8/10/05 2:00	139	0	26.7	22.2	20	67	0.00	0	988.83	23.6	24.9	1.3
8/10/05 3:00	127	0	25.6	21.9	20	71	0.00	0	988.83	23.5	24.9	1.5
8/10/05 4:00	142	0	25.6	21.5	19.4	69	0.00	0	989.16	23.5	24.7	1.2
8/10/05 5:00	147	0	23.9	21.3	20	79	0.00	0	989.94	22.5	24	1.5
8/10/05 6:00	200	0	26.1	22	20	69	2.57	180	990.18	23.7	24.1	0.4
8/10/05 7:00	223	0.44704	27.8	22.6	20	63	1.54	220	990.86	25.3	25.7	-0.6
8/10/05 8:00	227	0.89408	29.4	23	20	57	2.06	240	991.20	28.7	27.7	-1
8/10/05 9:00	234	0.89408	31.1	23.5	20	52	2.57	240	991.20	30.7	29.3	-1.4
8/10/05 10:00	193	1.34112	32.2	23.8	20	49	2.57	180	990.52	32.4	30.7	-1.6
8/10/05 11:00	172	1.78816	33.3	23.5	18.9	43	2.57	120	989.84	33	31.4	-1.6
8/10/05 12:00	163	1.78816	33.9	23.9	19.4	42	2.06	180	989.16	33.6	32.2	-1.4
8/10/05 13:00	183	1.34112	35	23.9	18.9	39	3.09	200	988.49	34.9	33.1	-1.8
8/10/05 14:00	203	1.78816	34.4	23.4	18.3	38	3.60	150	988.15	35.2	33.5	-1.7
8/10/05 15:00	179	1.78816	36.1	22.8	16.1	30	4.63	180	987.81	35.4	33.9	-1.4
8/10/05 16:00	185	1.78816	35.6	22.6	16.1	31	3.09	190	987.13	34.9	33.9	-1
8/10/05 17:00	191	1.34112	34.4	22.6	16.7	35	4.63	180	987.13	34.2	33.7	-0.5
8/10/05 18:00	198	1.34112	33.9	22.7	17.2	37	3.60	180	987.13	32.4	32.6	0.2
8/10/05 19:00	197	0.44704	32.8	22.7	17.8	41	3.09	180	986.79	29.5	31	1.5
8/10/05 20:00	194	0	31.1	22.5	18.3	46	1.54	150	987.47	27.6	29.8	2.2
8/10/05 21:00	168	0.44704	28.9	21.9	18.3	53	1.54	150	987.81	27.1	29.2	2
8/10/05 22:00	206	0	28.3	22	18.9	57	2.57	200	988.15	26.5	28.5	2
8/10/05 23:00	161	0	28.9	22.2	18.9	55	3.60	200	988.83	25.8	27.9	2.1
8/11/05 0:00	222	0	28.9	22.2	18.9	55	3.09	180	988.83	26.1	27.3	1.2
8/11/05 1:00	223	0.44704	28.3	22.3	19.4	59	3.60	210	988.83	26.1	26.9	0.8
8/11/05 2:00	221	0.44704	27.2	22	19.4	62	3.09	210	988.83	25.8	26.3	0.6
8/11/05 3:00	228	0.44704	26.1	21.7	19.4	67	2.06	210	988.83	25.1	25.7	0.6
8/11/05 4:00	207	0	25.6	21.5	19.4	69	2.57	190	988.83	24.3	25	0.8
8/11/05 5:00	232	0	25.6	21.5	19.4	69	1.54	200	989.50	22.5	23.9	1.5
8/11/05 6:00	211	0.44704	25.6	21.9	20	71	2.57	180	989.84	23.6	23.9	0.3
8/11/05 7:00	209	0.89408	27.2	22.4	20	65	4.12	210	989.84	26	25.3	-0.8
8/11/05 8:00	226	0.89408	28.9	23.5	21.1	63	3.60	210	989.50	27.8	26.7	-1.1
8/11/05 9:00	199	1.78816	30.6	23.4	20	53	5.66	210	989.16	29.4	28.2	-1.2
8/11/05 10:00	202	1.78816	31.7	23	18.9	47	4.63	210	988.83	31	29.4	-1.6
8/11/05 11:00	184	2.2352	33.3	23.5	18.9	43	5.66	210	988.15	32.4	30.6	-1.8
8/11/05 12:00	190	2.68224	33.3	23.8	19.4	44	6.69	180	987.81	32.8	31.3	-1.4
8/11/05 13:00	190	2.68224	33.9	23.6	18.9	41	6.69	190	987.13	33.6	32.1	-1.5
8/11/05 14:00	193	2.2352	34.4	23.8	18.3	38	5.66	210	986.12	33.1	32.1	-1
8/11/05 15:00	197	1.78816	35	23.6	18.9	55	4.63	210	985.78	33.4	32.5	-0.9
8/11/05 16:00	214	1.78816	33.9	23	17.8	38	6.17	190	985.44	33.6	32.8	-0.8
8/11/05 17:00	208	1.34112	33.9	23.3	18.3	40	6.17	180	985.10	32.5	32.3	-0.2
8/11/05 18:00	214	1.34112	33.3	23.1	18.3	41	4.63	210	984.76	31.5	31.7	0.2
8/11/05 19:00	230	0.44704	31.7	23	18.9	47	3.09	190	985.10	29.7	30.5	0.7
8/11/05 20:00	213	0.44704	31.1	23.1	19.4	50	4.12	190	985.78	28.7	29.6	1
8/11/05 21:00	203	1.34112	30.6	23.4	20	53	4.63	190	986.12	27.8	28.6	0.9
8/11/05 22:00	214	0.89408	30	23.5	20.6	57	4.12	180	986.45	27	27.9	0.9
8/11/05 23:00	219	0.89408	29.4	23.4	20.6	59	4.63	190	986.79	26.7	27.5	0.8
8/12/05 0:00	207	0.89408	28.9	23.2	20.6	61	4.63	190	986.79	27.5	27.8	0.4
8/12/05 1:00	214	0.89408	28.9	22.2	18.9	55	5.14	210	986.79	27.4	27.8	0.4
8/12/05 2:00	210	0.89408	27.8	21.9	18.9	58	6.17	210	986.79	26.9	27.3	0.4
8/12/05 3:00	212	0.89408	27.2	21.7	18.9	61	6.17	200	986.79	26.4	26.8	0.4
8/12/05 4:00	216	0.89408	26.7	21.6	18.9	62	5.14	200	987.13	26.4	26.7	0.3
8/12/05 5:00	219	0.89408	26.1	21.4	18.9	65	4.12	200	987.13	26	26.3	0.3
8/12/05 6:00	207	0.89408	27.2	22	19.4	62	5.66	210	987.81	26.1	26.1	0
8/12/05 7:00	215	1.34112	28.3	22.3	19.4	59	6.69	210	988.15	27.2	26.7	-0.5
8/12/05 8:00	208	1.34112	30	22.5	18.9	51	5.66	220	987.81	29.6	28.7	-0.9
8/12/05 9:00	215	1.78816	32.8	23	18.3	42	4.63	230	987.81	31	29.8	-1.2
8/12/05 10:00	218	1.78816	33.9	23.3	18.3	40	4.63	220	987.47	33.3	31.8	-1.5
8/12/05 11:00	225	1.78816	35.6	23.8	18.3	36	5.66	210	986.79	34.7	33.1	-1.6
8/12/05 12:00	218	1.78816	35	23.6	18.3	37	4.12	200	986.12	35.3	33.7	-1.6
8/12/05 13:00	215	1.78816	36.7	24	18.3	34	6.69	180	985.44	34.9	33.7	-1.2
8/12/05 14:00	197	2.2352	36.7	24.4	18.9	35	6.17	190	984.76	33	32.7	-0.4
8/12/05 15:00	201	2.2352	36.7	24.4	18.9	35	8.23	180	983.41	34	33.6	-0.5
8/12/05 16:00	200	2.68224	36.1	23.9	18.3	35	6.69	190	983.07	33.1	33.3	0.3
8/12/05 17:00	268	2.68224	31.1	22.2	17.8	45	4.12	330	983.75	25.1	25.1	0
8/12/05 18:00	261	0.89408	27.8	21.3	17.8	55	2.06	30	984.08	24.8	25.2	0.4
8/12/05 19:00	123	0.44704	27.8	21.3	17.8	55	3.09	80	984.76	24.1	25.2	1.1
8/12/05 20:00	121	0.44704	27.8	21.3	17.8	55	0.00	0	985.44	24.4	25	0.6
8/12/05 21:00	198	0	26.7	21.2	18.3	60	2.06	110	985.44	25.7	26.3	0.6
8/12/05 22:00	142	0.44704	31.1	22.2	17.8	45	4.63	190	985.44	26	26.5	0.5
8/12/05 23:00	217	0.89408	30.6	22.4	18.3	48	4.63	180	985.44	25.2	25.9	0.7
8/13/05 0:00	207	0.44704	29.4	22.4	18.9	53	4.12	180	985.44	23.2	25	1.8
8/13/05 1:00	202	0.89408	28.9	22.5	19.4	57	4.63	200	985.78	24.9	26.3	1.4
8/13/05 2:00	220	0.89408	28.3	22.3	19.4	59	4.63	190	985.44	26	26.6	0.6
8/13/05 3:00	216	0.89408	28.3	22.7	20	61	5.66	190	985.10	26.1	26.6	0.5
8/13/05 4:00	217	0.89408	27.8	22.5	20	63	6.17	200	985.44	26	26.4	0.4
8/13/05 5:00	207	0.89408	27.2	22.4	20	65	4.63	170	985.78	25.1	25.7	0.6
8/13/05 6:00	217	0.89408	27.8	22.9	20.6	65	4.12	200	986.12	25.1	25.4	0.2</

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
8/9/05 9:00	59.3	0.9	1.4	0.5	3.3	0.5	172.8	27.6	642.4	2.31	0	984.28
8/9/05 10:00	50.8	1.8	2.3	0.5	5.8	0.7	183.8	18.2	785.5	2.83	0	984.04
8/9/05 11:00	45.8	1.9	2.5	0.6	5.5	0.8	172.3	24.3	815.1	2.93	0	983.58
8/9/05 12:00	42	2.5	3.3	0.9	7.4	1	180.2	23.6	831.3	2.99	0	982.96
8/9/05 13:00	38.1	2.6	3.5	0.9	6.5	1	168.8	18.3	875.8	3.15	0	982.28
8/9/05 14:00	35.4	2.6	3.4	0.9	6.3	1	176.2	16.8	812.1	2.92	0	981.65
8/9/05 15:00	34.5	1.9	2.7	0.8	6.2	1	153.9	21.9	586.8	2.11	0	981.12
8/9/05 16:00	34.3	1.8	2.6	0.8	6.1	1	178.8	18.6	466.5	1.68	0	980.71
8/9/05 17:00	37.2	1.7	2.6	0.9	5.1	0.6	169.3	13.4	269.8	0.97	0	980.23
8/9/05 18:00	42.7	0.7	2	1.3	3.5	0.3	167.2	8.6	84.1	0.3	0	979.82
8/9/05 19:00	52.6	0	0.9	0.9	1.6	0.1	184	5	4.3	0.02	0	979.91
8/9/05 20:00	60	0	0.7	0.7	1.3	0.1	169.1	5.6	0	0	0	980.67
8/9/05 21:00	63.6	0	1.1	1.1	1.9	0.1	206.2	6.2	0	0	0	981.59
8/9/05 22:00	67.6	0	1.1	1.1	1.7	0.1	214.1	4.4	0	0	0	982.26
8/9/05 23:00	71	0	1.3	1.3	2	0.2	229.8	5.4	0	0	0	982.52
8/10/05 0:00	73.5	0	1.4	1.4	2	0.1	228.9	5.3	0	0	0	982.38
8/10/05 1:00	77.9	0	1.2	1.2	2.1	0.1	208.2	5.5	0	0	0	982.25
8/10/05 2:00	78.8	0.2	1.2	1.1	2.3	0.2	223.6	10	0	0	0	982.31
8/10/05 3:00	79.8	0.1	1.6	1.5	2.7	0.2	218.5	6.1	0	0	0	982.25
8/10/05 4:00	79.5	0.2	1.7	1.5	2.6	0.3	231.3	8.9	0	0	0	982.36
8/10/05 5:00	83.3	0	1.2	1.2	2.6	0.2	222.1	6.7	4.6	0.02	0	982.91
8/10/05 6:00	81.6	0	1.1	1.1	1.7	0.1	209.2	5.6	85.1	0.31	0	983.21
8/10/05 7:00	72.8	0.6	1.5	0.8	2.5	0.3	209.3	11.5	256.4	0.92	0	983.95
8/10/05 8:00	63.1	1.5	2.1	0.6	4.3	0.5	208.6	15.7	450.3	1.62	0	984.2
8/10/05 9:00	54.2	2	2.7	0.8	5.3	0.6	187.3	15.6	624.7	2.25	0	984.42
8/10/05 10:00	47.3	1.7	2.2	0.5	4.9	0.8	174.7	24.5	772.9	2.78	0	984.06
8/10/05 11:00	43.3	1.8	2.4	0.6	5.6	0.8	200.2	26.1	791.3	2.85	0	983.43
8/10/05 12:00	41.1	1.4	2.1	0.7	5.9	0.7	103.8	28.1	673.8	2.43	0	982.74
8/10/05 13:00	36.4	2.1	2.9	0.8	8.3	1.1	146.2	21.1	831.6	2.99	0	982.15
8/10/05 14:00	34.4	2.6	3.4	0.9	7	1.1	182.7	19.2	828.9	2.98	0	981.65
8/10/05 15:00	33.3	2.4	3.2	0.9	7.1	1	153.5	18.2	638.5	2.3	0	981.22
8/10/05 16:00	32.8	2.5	3.4	0.9	6.7	0.8	162.7	16.2	464.9	1.67	0	980.77
8/10/05 17:00	33.7	2.1	3.1	0.9	6	0.7	165.7	15.3	270.6	0.97	0	980.47
8/10/05 18:00	38.5	1.4	2.4	1	5.5	0.5	150.9	10.6	79.8	0.29	0	980.36
8/10/05 19:00	46.3	0.3	1.8	1.4	3.1	0.2	151.3	7.3	3.1	0.01	0	980.31
8/10/05 20:00	54.3	0	1.4	1.4	2.1	0.2	164.3	5.4	0	0	0	980.84
8/10/05 21:00	55.8	0	1.3	1.3	2	0.1	174.3	5.2	0	0	0	981.07
8/10/05 22:00	57.3	0	1.2	1.2	1.8	0.1	183	4.9	0	0	0	981.27
8/10/05 23:00	62.3	0.4	1.7	1.3	3.4	0.2	177.9	6.2	0	0	0	981.77
8/11/05 0:00	63.3	1.5	2.7	1.2	4.9	0.4	191.3	7.5	0	0	0	982.05
8/11/05 1:00	65.9	1.9	3.1	1.2	5.3	0.4	196.3	7.6	0	0	0	981.94
8/11/05 2:00	67.6	2.2	3.4	1.3	5.9	0.5	187.2	8.1	0	0	0	981.74
8/11/05 3:00	67.3	2	3.2	1.2	5.3	0.5	184.6	8.5	0	0	0	981.81
8/11/05 4:00	71	1.4	2.5	1.2	4.5	0.3	203.4	7.8	0	0	0	981.94
8/11/05 5:00	80	0.6	1.9	1.3	2.7	0.2	194.1	4.4	6.4	0.02	0	982.16
8/11/05 6:00	78.8	1.1	2	0.9	2.8	0.3	196.5	6.8	81	0.29	0	982.55
8/11/05 7:00	69.8	1.9	2.5	0.6	4.7	0.5	196.8	11.4	310	1.12	0	982.95
8/11/05 8:00	64.3	2.6	3.5	0.9	6.2	0.8	190.3	15.1	492.1	1.77	0	982.53
8/11/05 9:00	56.6	3.3	4.6	1.3	9.1	0.9	167.6	14.5	573.7	2.07	0	982.26
8/11/05 10:00	49.2	3.7	5.1	1.4	8.3	1.1	200.8	14.4	769.2	2.77	0	982.01
8/11/05 11:00	44.3	3.5	4.7	1.2	9	1.3	163.3	18.9	890.3	3.21	0	981.45
8/11/05 12:00	42.5	3.7	5	1.3	9.2	1.2	162.3	14.8	693.2	2.5	0	980.94
8/11/05 13:00	38.9	4.1	5.5	1.4	10.9	1.3	189.2	14.1	777.2	2.8	0	980.26
8/11/05 14:00	39.6	3.6	4.9	1.3	9.4	1.2	160.8	15.7	511	1.84	0	979.61
8/11/05 15:00	38.3	3.6	4.9	1.3	8.6	1	169.7	13	449.3	1.82	0	979.17
8/11/05 16:00	38.8	3.4	4.7	1.4	8.8	0.9	172.7	14.1	417.3	1.5	0	978.82
8/11/05 17:00	41.7	3.1	4.4	1.3	7.6	0.8	182	11.1	184.5	0.66	0	978.38
8/11/05 18:00	45.9	2.1	3.3	1.2	5.5	0.6	176.2	10.3	79.3	0.29	0	978.27
8/11/05 19:00	51.3	1.5	2.7	1.2	4.4	0.4	172.6	8.3	2.9	0.01	0	978.4
8/11/05 20:00	55.5	1.4	2.6	1.2	4.4	0.4	167.5	7.6	0	0	0	978.73
8/11/05 21:00	59.4	1.5	2.6	1.1	4.1	0.4	162.5	7.4	0	0	0	979.29
8/11/05 22:00	64.5	1.1	2.4	1.3	4.2	0.3	167.5	7.3	0	0	0	979.62
8/11/05 23:00	68.1	1.3	2.5	1.2	4	0.3	164.9	7	0	0	0	979.88
8/12/05 0:00	65.7	2.3	3.7	1.4	6.8	0.7	172.6	9.6	0	0	0	979.83
8/12/05 1:00	61.2	3.2	4.9	1.7	8.4	0.8	176.2	10.3	0	0	0	979.83
8/12/05 2:00	60.3	3	4.6	1.6	7.2	0.8	181.6	10.2	0	0	0	979.82
8/12/05 3:00	62.2	3	4.6	1.6	7.8	0.8	187.2	10	0	0	0	979.8
8/12/05 4:00	62.9	3.1	4.5	1.4	8.6	0.7	193.8	9	0	0	0	979.9
8/12/05 5:00	63.1	2.8	4.3	1.4	7.7	0.7	185.3	9	3.7	0.01	0	980.11
8/12/05 6:00	64.8	3	4.4	1.4	7.2	0.8	184.3	9.3	92.8	0.33	0	980.43
8/12/05 7:00	63.8	3.2	4.5	1.3	8.4	0.9	181.7	10.6	263	0.95	0	980.77
8/12/05 8:00	55.2	4.7	6.7	1.2	8.9	0.9	189.8	12.8	419.8	1.51	0	980.77
8/12/05 9:00	49.8	3.9	5.3	1.4	9.3	1.4	196.7	14.1	607.8	2.19	0	980.92
8/12/05 10:00	41.3	4.1	5.6	1.5	10.2	1.1	187.1	13.2	770.1	2.77	0	980.67
8/12/05 11:00	34.9	4.6	6.1	1.5	10.9	1.3	195.5	12.9	838.5	3.02	0	980.16
8/12/05 12:00	34.7	4	5.3	1.3	10	1.1	186.3	14.4	840.8	3.03	0	979.64
8/12/05 13:00	36.3	3.4	4.6	1.2	8.8	1	199.3	14.2	568.8	2.05	0	979.05
8/12/05 14:00	45.4	2.2	3.1	0.9	7.1	0.7	210.8	12.4	362.8	1.31	0.01	978.33
8/12/05 15:00	44.6	2.9	3.9	1	7.5	0.9	182.8	12.5	510.6	1.84	0.01	977.11
8/12/05 16:00	44.3	3.7	5.2	1.5	11.4	1.2	168.3	13.2	193.8	0.7	0	976.53
8/12/05 17:00	64.3	3.9	5.4	1.5	15.3	1.6	248.6	16.5	25.8	0.09	0	977.78
8/12/05 18:00	62.3	0.8	1.6	0.8	3.6	0.4	247.3	14.2	17.9	0.06	0	977.15
8/12/05 19:00	68.8	0.2	0.9	0.7	2.8	0.2	130.3	11	1.8	0.01	0	977.6
8/12/05 20:00	67.9	0.7	1.6	0.9	3.7	0.4	158.3	13.1	0	0	0	978.31
8/12/05 21:00	62.4	1.1	2.1	1	4	0.4	146.2	9.3	0	0	0	978.78
8/12/05 22:00	62	1.5	2.5	1	4.4	0.5	153.4	10.8	0	0	0	978.69
8/12/05 23:00	65.8	0.5	1.5	1	3.3	0.3	91.4	13.7	0	0	0	978.97
8/13/05 0:00	76.5	0	1.2	1.2	2.3	0.2	124.8	11.2	0	0	0	978.81
8/13/05 1:00	69.3	1	2.3	1.4	4.1	0.3	161.3	7.1	0	0	0	978.78
8/13/05 2:00	65.8	2.3	3.6	1.3	5.9	0.6	169	8.9	0	0	0	978.58
8/13/05 3:00	67.7	2.4	3.8	1.4	6.9	0.7	176.1	9.1	0	0	0	978.33
8/13/05 4:00	69.2	2.4	3.7	1.3	6.3	0.6	186.5	9.7	0	0	0	978.5
8/13/05 5:00	73.8	1.4	2.6	1.1	4.5	0.4	184.7	8.9	5.2	0.02	0	978.72
8/13/05 6:00	74.8	1.6	2.6	1.1	5	0.4	170.7	9.1	59.7	0.21	0	979.2
8/13/05 7:00	69.2	2.9	4	1.2	8.9	0.8	168.8	10.5	283.2	1.02	0	979.4
8/13/05 8:00	62.8	4.7	6.5	1.8	11.7	1.2	186	10.1	431.3	1.55	0	979.67
8/13/05 9:00	60.5	5.7	7.5	1.8	13.3	1.5	199.6	12.1	454.8	1.64	0	980.03
8/13/05 10:00	70.8	3.5	4.9	1.4	10.6	1.2	220.9	12.9	178.7	0.64	0	980.3
8/13/05 11:00	73.3	2.2	2.9	0.7	5.3	0.6	198.7	11.9	250.8	0.9	0	979.9

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127								T _a (°C)	RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)			
8/14/05 0:00	0.03169	21.7	0.8	1.8	112.5	8	0.013	0	0.011	0.011	13.4	22.22	92	
8/14/05 1:00	0.03171	21.4	1.2	2.2	112.5	6.3	0.017	0	0.008	0.008	13.1	21.67	94	
8/14/05 2:00	0.02739	20.9	0.9	4	202.5	11.2	0.016	0	0.009	0.009	15.7	21.67	94	
8/14/05 3:00	0.02238	20.5	0.7	4.9	180	9.8	0.02	0	0.005	0.005	11.9	21.67	94	
8/14/05 4:00	0.02735	20.6	0.8	5.4	202.5	8.5	0.015	0	0.006	0.006	11.9	21.67	94	
8/14/05 5:00	0.02161	20.8	0.3	1.3	180	5.8	0.011	0	0.006	0.007	13	21.67	94	
8/14/05 6:00	0.02013	20.7	0.3	4	202.5	7.2	0.016	0	0.006	0.006	14.2	21.67	95	
8/14/05 7:00	0.01803	20.6	0.2	3.6	202.5	5.8	0.014	0	0.008	0.008	10.3	21.67	95	
8/14/05 8:00	0.01933	20.4	1	3.6	202.5	8	0.017	0.001	0.007	0.008	10.3	22.22	95	
8/14/05 9:00	0.02507	20.6	0.5	5.4	202.5	8.9	0.021	0.001	0.005	0.006	10.4	22.78	93	
8/14/05 10:00	0.02489	21.4	1	3.6	202.5	8.9	0.02	0.001	0.005	0.006	11.4	23.33	90	
8/14/05 11:00	0.02347	22.1	1	2.7	202.5	6.7	0.022	0.002	0.006	0.007	12.8	24.44	87	
8/14/05 12:00	0.02137	22.7	1.3	1.8	202.5	5.4	0.024	0.002	0.009	0.011	14.4	25.56	83	
8/14/05 13:00	0.0236	24.2	1.4	1.3	202.5	4.5	0.026	0.001	0.007	0.008	16.5	25.56	81	
8/14/05 14:00	0.02405	24.1	0.8	1.3	180	4	0.027	0.001	0.007	0.008	16.6	25.56	82	
8/14/05 15:00	0.02	25.6	2	0.9	0	4	0.023	0.002	0.01	0.011	18.5	25.56	85	
8/14/05 16:00	0.02258	26	1.8	0.9	315	3.1	0.029	0.001	0.008	0.009	14.6	26.11	80	
8/14/05 17:00	0.02291	27.3	1.1	0.4	157.5	1.8	0.03	0.001	0.007	0.008	20.5	26.11	78	
8/14/05 18:00	0.0294	25.3	2.9	0.4	225	2.7	0.022	0.003	0.011	0.013	16.7	26.11	82	
8/14/05 19:00	0.03083	24.1	0.7	1.3	22.5	4.5	0.019	0.002	0.01	0.012	16	25.00	86	
8/14/05 20:00	0.02894	23.5	0.5	1.3	225	5.8	0.016	0.001	0.006	0.007	13.7	24.44	88	
8/14/05 21:00	0.02383	22.8	0.5	3.1	22.5	6.7	0.01	0.002	0.006	0.008	17.5	23.89	91	
8/14/05 22:00	0.02237	22.6	0.3	2.7	22.5	6.7	0.008	0.001	0.004	0.005	15.1	22.78	92	
8/14/05 23:00	0.01161	22	0.8	2.2	45	5.8	0.007	0.001	0.003	0.003	13.6	22.78	93	
8/15/05 0:00	0.008044	21.6	0.3	1.8	0	5.8	0.007	0	0.003	0.003	16.2	22.22	94	
8/15/05 1:00	0.01171	21.6	0.4	1.3	22.5	5.4	0.008	0	0.002	0.002	9.3	21.67	95	
8/15/05 2:00	0.008364	21.2	0.5	2.2	0	7.6	0.011	0	0.003	0.002	9	22.22	95	
8/15/05 3:00	0.01801	20.9	1.3	3.6	202.5	11.6	0.006	0	0.002	0.002	8.3	21.67	95	
8/15/05 4:00	0.008769	20.3	1	1.8	292.5	4.5	0.003	0.001	0.004	0.004	9.4	21.67	94	
8/15/05 5:00	0.01013	20.9	0.6	0.4	0	2.2	0.003	0	0.005	0.005	6.9	22.22	95	
8/15/05 6:00	0.00877	21.3	0.3	1.3	337.5	5.4	0.002	0.005	0.005	0.01	9.3	21.67	95	
8/15/05 7:00	0.006302	21.4	0.3	0.9	180	3.1	0.002	0.008	0.006	0.014	10	21.67	95	
8/15/05 8:00	0.007762	21.6	0.5	1.3	0	4.5	0.003	0.008	0.006	0.014	10	21.67	95	
8/15/05 9:00	0.0104	22	0.6	2.2	0	6.3	0.004	0.011	0.007	0.019	7.3	22.22	95	
8/15/05 10:00	0.01315	22.7	1.1	2.7	0	6.7	0.006	0.01	0.007	0.017	11.5	23.89	93	
8/15/05 11:00	0.01309	24	1.6	2.2	0	6.7	0.017	0	0.003	0.004	11.9	24.44	91	
8/15/05 12:00	0.01975	24.5	3.4	2.2	292.5	7.2	0.024	0	0.001	0.001	9.6	26.11	83	
8/15/05 13:00	0.02171	28.3	4.6	1.3	90	6.3	0.029	0	0.002	0.001	11.3	26.67	77	
8/15/05 14:00	0.02569	28.7	3.8	1.8	90	6.3	0.03	0	0.001	0.001	7.4	27.78	72	
8/15/05 15:00	0.02803	30	4.4	1.8	292.5	6.7	0.03	0	0.001	0.001	12.7	27.78	70	
8/15/05 16:00	0.02691	28.3	1.5	1.3	292.5	5.4	0.032	0	0.001	0	7.2	28.33	68	
8/15/05 17:00	0.02565	28.3	1.9	1.3	292.5	4.9	0.029	0	0.002	0.001	12.1	27.22	72	
8/15/05 18:00	0.0255	25.8	5.3	1.8	270	9.8	0.024	0	0.004	0.004	9.3	23.89	92	
8/15/05 19:00	0.02828	22.9	0.5	1.3	292.5	4.9	0.016	0	0.006	0.005	9.4	23.89	93	
8/15/05 20:00	0.02662	22.6	0.8	0.9	292.5	4.5	0.01	0	0.009	0.009	11.8	23.33	94	
8/15/05 21:00	0.01979	22.6	0.3	0.9	90	4.9	0.011	0	0.008	0.007	9.2	23.33	94	
8/15/05 22:00	0.02341	22.4	0.4	0.9	225	5.8	0.009	0	0.005	0.005	12.7	23.33	94	
8/15/05 23:00	0.0202	21.8	0.6	0.4	225	1.8	0.011	0	0.004	0.003	12.8	22.78	93	
8/16/05 0:00	0.02051	21.4	0.3	0.9	225	2.7	0.011	0	0.002	0.002	14.3	22.22	94	
8/16/05 1:00	0.02013	21.2	0.2	0.4	180	2.2	0.006	0	0.003	0.003	14.2	22.22	94	
8/16/05 2:00	0.01872	21.2	0.3	0.4	202.5	1.3	0.006	0	0.003	0.003	15.7	21.67	94	
8/16/05 3:00	0.01767	21.2	0.2	0.4	45	2.7	0.008	0	0.003	0.002	14.3	22.22	95	
8/16/05 4:00	0.01548	21.2	0.2	0.4	90	2.2	0.013	0	0.002	0.002	17.2	22.22	95	
8/16/05 5:00	0.01482	21.1	0.3	0	67.5	1.3	0.011	0	0.003	0.003	21.7	22.22	95	
8/16/05 6:00	0.01371	21	0.2	0	270	2.2	0.008	0.002	0.005	0.007	21.5	22.22	95	
8/16/05 7:00	0.01156	20.9	0.4	0.4	0	2.2	0.009	0.005	0.006	0.011	23.3	22.22	95	
8/16/05 8:00	0.01283	21.8	0.1	0.1	0	0.1	0.011	0.005	0.006	0.011	19.5	22.78	91	
8/16/05 9:00	0.01421	21.8	0.1	0.1	0	0.1	0.018	0.006	0.007	0.013	21.7	25.00	81	
8/16/05 10:00	0.0139	21.8	0.1	0.1	0	0.1	0.029	0.002	0.004	0.006	16.7	26.11	73	
8/16/05 11:00	0.02386	30.7	3.7	0.4	67.5	2.7	0.035	0	0.003	0.002	17.3	27.22	68	
8/16/05 12:00	0.03108	29.8	2.3	0.4	0	3.1	0.041	0	0.003	0.003	19.2	27.22	66	
8/16/05 13:00	0.03156	28.4	1.9	0.9	292.5	4	0.043	0	0.002	0.002	18.5	27.78	67	
8/16/05 14:00	0.03363	29.3	2.1	0.9	315	4.5	0.037	0.001	0.012	0.013	25.5	27.22	72	
8/16/05 15:00	0.03411	24.6	4	3.1	180	5.8	0.03	0.002	0.02	0.021	29.3	26.11	78	
8/16/05 16:00	0.0317	24.4	1.8	0.9	202.5	4.5	0.014	0.006	0.034	0.04	24.3	25.56	79	
8/16/05 17:00	0.0299	25.5	0.8	0	292.5	1.8	0.017	0.002	0.028	0.031	23.8	25.56	79	
8/16/05 18:00	0.02121	24.7	0.4	0	90	0.9	0.01	0.004	0.029	0.032	24.1	25.56	82	
8/16/05 19:00	0.01256	23.9	1.2	0.4	180	2.2	0.004	0.003	0.029	0.032	22	25.00	86	
8/16/05 20:00	0.005892	23	0.7	1.3	180	2.7	0.002	0.001	0.024	0.025	19	23.89	89	
8/16/05 21:00	0.01019	22.7	0.5	2.2	180	4.5	0.002	0.001	0.023	0.023	18.2	23.89	87	
8/16/05 22:00	0.02852	23.2	0.3	2.7	202.5	4.5	0.001	0.005	0.02	0.025	20.9	23.33	89	
8/16/05 23:00	0.02876	23.1	0.4	3.1	202.5	5.4	0.02	0	0.009	0.017	0.26	18	22.78	92
8/17/05 0:00	0.01933	23.6	0.4	3.6	202.5	6.4	0.002	0.005	0.016	0.02	16.5	22.78	93	
8/17/05 1:00	0.0217	22.6	0.3	1.3	0	3.6	0.002	0.002	0.011	0.013	17.7	22.78	92	
8/17/05 2:00	0.01005	22.6	0.1	1.8	0	4	0.006	0.001	0.007	0.007	15	23.33	92	
8/17/05 3:00	0.006676	22.5	0.5	1.3	337.5	4	0.001	0.001	0.008	0.009	16.1	22.78	92	
8/17/05 4:00	0.009624	22.1	0.4	0.9	315	4	0.002	0.002	0.007	0.009	17.6	22.78	93	
8/17/05 5:00	0.008995	21.9	0.4	0.9	0	2.7	0.005	0.002	0.006	0.009	15.3	22.78	94	
8/17/05 6:00	0.01235	21.7	0.3	1.3	180	3.1	0.005	0.002	0.008	0.01	18	22.78	94	
8/17/05 7:00	0.01178	22.2	0.5	1.8	180	3.6	0.003	0.01	0.014	0.024	21	23.89	93	
8/17/05 8:00	0.01085	22.5	0.8	2.7	202.5	6.3	0.015	0.002	0.008	0.011	14	25.56	83	
8/17/05 9:00	0.01555	24.8	3.7	1.3	180	5.8	0.015	0.002	0.011	0.013	17.1	26.11	80	
8/17/05 10:00	0.01508	24.2	2.1	1.3	180	4.5	0.011	0	0.009	0.009	15.6	26.11	84	
8/17/05 11:00	0.01833	24.5	5.7	2.2	202.5	4.9	0.027	0	0.008	0.008	14.4	28.33	73	
8/17/05 12:00	0.0185	31.8	8.1	1.8	202.5	4.5	0.036	0.002	0.008	0.01	15.3	30.00	66	
8/17/05 13:00	0.02847	32.7	5.5	4	202.5	8.5	0.039	0	0.004	0.005	13.7	30.56	64	
8/17/05 14:00	0.03271	30.8												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _O (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
8/14/05 0:00	129	1.34112	22.2	21.1	20.6	91	4.12	110	986.12	21.2	21.3	0.1
8/14/05 1:00	185	0.89408	22.2	21.1	20.6	91	3.60	150	986.79	21.1	21.1	0
8/14/05 2:00	182	0.89408	22.2	21.5	21.1	94	3.60	170	987.13	21	21	0
8/14/05 3:00	185	0.89408	22.2	21.5	21.1	94	3.09	130	986.12	21.1	21.1	0
8/14/05 4:00	132	0.44704	22.2	21.5	21.1	94	1.54	120	986.79	21.1	21.1	0
8/14/05 5:00	165	0.89408	22.2	21.5	21.1	94	4.12	180	987.47	21.1	21.1	0
8/14/05 6:00	193	0.89408	22.2	21.5	21.1	94	2.57	160	987.81	21.4	21.4	0
8/14/05 7:00	170	0.89408	22.2	21.5	21.1	94	3.09	150	988.15	21.6	21.5	-0.1
8/14/05 8:00	177	1.34112	22.2	21.9	21.7	97	3.60	160	988.83	21.6	21.5	-0.1
8/14/05 9:00	180	1.34112	23.3	22.2	21.7	91	4.63	140	989.50	22	21.8	-0.2
8/14/05 10:00	168	1.78816	23.9	22.7	22.2	90	4.12	170	989.16	22.6	22.4	-0.1
8/14/05 11:00	183	0.89408	24.4	22.9	22.2	88	2.57	150	988.83	23.2	23	-0.2
8/14/05 12:00	202	0.89408	25.6	23.3	22.2	82	3.60	200	988.83	24.3	24	-0.3
8/14/05 13:00	245	0.44704	26.1	23.4	22.2	79	2.06	180	988.83	24.4	24.2	-0.2
8/14/05 14:00	194	0.44704	26.1	23.1	21.7	77	2.06		988.49	24.1	24	-0.1
8/14/05 15:00	98	0.89408	26.7	24	22.8	79	2.06		988.49	24.1	24.1	0
8/14/05 16:00	77	1.34112	27.2	23.7	22.2	74	1.54		988.15	23.9	23.7	-0.2
8/14/05 17:00	81	0.89408	26.7	23.6	22.2	76	2.57	40	988.15	23.3	23.2	-0.1
8/14/05 18:00	67	1.34112	26.1	23.8	22.8	82	3.09	60	988.49	22.9	23	0.1
8/14/05 19:00	46	1.78816	25.6	23.7	22.8	85	3.09	50	989.16	22.2	22.4	0.1
8/14/05 20:00	43	1.78816	25	23.1	22.2	85	3.60	50	989.50	21.9	22.1	0.2
8/14/05 21:00	37	1.78816	24.4	23.3	22.8	91	3.09	10	989.50	21.7	21.8	0.2
8/14/05 22:00	49	2.2352	23.3	22.6	22.2	94	3.09	30	989.50	21.4	21.6	0.2
8/14/05 23:00	55	1.78816	22.8	22.4	22.2	96	3.09	350	989.84	21	21.2	0.2
8/15/05 0:00	84	1.78816	22.8	22.4	22.2	96	3.09	60	989.16	20.7	20.9	0.2
8/15/05 1:00	96	1.34112	22.8	22.4	22.2	96	3.09	110	988.49	20.6	20.8	0.2
8/15/05 2:00	212	1.34112	23.3	22.6	22.2	94	5.66	200	988.83	20.5	20.7	0.2
8/15/05 3:00	263	0.89408	22.8	21.7	21.1	90	3.09	240	989.84	20.3	20.5	0.2
8/15/05 4:00	220	0.44704	22.8	22.1	21.7	94	1.54	220	989.84	20.3	20.2	-0.1
8/15/05 5:00	233	0.44704	22.2	21.9	21.7	97	2.06	340	990.18	20.4	20.2	-0.2
8/15/05 6:00	43	0.89408	22.2	21.9	21.7	97	1.54	350	990.52	20.6	20.4	-0.2
8/15/05 7:00	49	0.89408	22.2	21.5	21.1	94	2.06	360	991.20	20.9	20.7	-0.1
8/15/05 8:00	53	0.89408	22.2	21.9	21.7	97	1.54	360	991.53	21.2	21.1	-0.1
8/15/05 9:00	74	0.44704	23.3	22.6	22.2	94	0.00	0	991.87	21.8	21.9	0
8/15/05 10:00	165	0.44704	25.6	23.3	23.3	87	2.06		991.87	22.7	23	0.3
8/15/05 11:00	233	0.89408	25	23.8	23.3	90	3.09	290	991.87	24.1	24.4	0.3
8/15/05 12:00	266	1.34112	26.7	24	22.8	79	3.60	270	991.87	25	25.2	0.2
8/15/05 13:00	266	1.34112	27.2	24.1	22.8	77	3.60	270	991.53	26.2	26.2	-0.1
8/15/05 14:00	293	1.78816	27.8	23.9	22.2	72	3.09	330	990.86	26.7	26.6	-0.1
8/15/05 15:00	284	1.34112	28.3	24.1	22.2	70	3.09	300	990.52	27.2	27.1	-0.1
8/15/05 16:00	268	0.89408	28.3	23.4	21.1	65	2.57	280	990.52	27.6	27.5	-0.1
8/15/05 17:00	266	0.89408	27.8	23.6	21.7	69	2.57	280	990.52	26.2	26.6	0.4
8/15/05 18:00	173	0.89408	24.4	22.9	22.2	88	0.00	0	990.86	24.7	25.1	0.4
8/15/05 19:00	227	0	24.4	22.9	22.2	88	1.54	270	991.20	23.8	24.3	0.5
8/15/05 20:00	228	0	25	23.5	22.8	88	1.54	260	991.87	23.4	24.1	0.6
8/15/05 21:00	268	0.44704	23.9	23.1	22.8	94	2.06	310	992.21	22.6	23.3	0.7
8/15/05 22:00	265	0.89408	23.3	22.6	22.2	94	3.09	320	991.87	22.4	23.1	0.7
8/15/05 23:00	254	0.89408	22.8	22.4	22.2	96	2.57	330	992.21	22.1	22.8	0.7
8/16/05 0:00	225	0.44704	22.8	22.4	22.2	96	2.06	310	991.87	21.7	22.4	0.7
8/16/05 1:00	162	0.44704	22.8	22.4	22.2	96	2.57	330	991.87	21.5	22.2	0.7
8/16/05 2:00	275	0.44704	22.8	22.1	21.7	94	1.54	330	992.21	21.2	21.8	0.6
8/16/05 3:00	265	0.89408	22.2	21.9	21.7	97	2.06	340	991.87	20.9	21.5	0.7
8/16/05 4:00	158	0.89408	22.8	22.1	21.7	94	2.06	360	992.21	21.2	21.6	0.5
8/16/05 5:00	76	1.34112	22.2	21.9	21.7	97	2.06	350	992.55	21.1	21.6	0.5
8/16/05 6:00	126	0.69408	22.8	22.1	21.7	96	2.06	340	992.89	21.3	21.7	0.4
8/16/05 7:00	45	1.34112	23.3	22.2	21.7	91	1.54	50	993.23	21.9	22.2	0.3
8/16/05 8:00	48	1.34112	25	22.8	21.7	82	3.09		992.89	22.7	22.9	0.1
8/16/05 9:00	116	0.89408	26.1	22.7	21.1	74	2.06	80	993.23	24.1	23.8	-0.2
8/16/05 10:00	75	1.34112	27.2	23.1	21.1	69	1.54	360	993.23	26	25.3	-0.7
8/16/05 11:00	119	0.89408	27.2	22.7	20.6	67	1.54		992.89	27.3	26.5	-0.8
8/16/05 12:00	174	0.89408	27.8	22.9	20.6	65	2.06	170	992.55	27.7	27.2	-0.5
8/16/05 13:00	260	0.89408	27.8	22.9	20.6	65	2.06	210	992.21	27.9	27.6	-0.3
8/16/05 14:00	206	0.89408	26.1	23.4	22.2	79	5.66	200	991.87	27	26.9	-0.1
8/16/05 15:00	202	0.89408	25	22.8	21.7	82	3.09	170	990.86	27	26.9	-0.1
8/16/05 16:00	198	0.44704	25.6	22.6	21.1	76	0.00	0	990.86	26.3	26.4	0.1
8/16/05 17:00	208	0	25.6	22.9	21.7	79	1.54	190	990.52	25.8	26	0.2
8/16/05 18:00	257	0	25.6	22.6	21.1	76	2.06	200	990.52	25.4	25.5	0.2
8/16/05 19:00	211	0	25	22.4	21.1	79	3.09	190	990.86	24.3	24.8	0.5
8/16/05 20:00	217	0	25	22.8	21.7	82	1.54	210	991.20	23.5	24	0.4
8/16/05 21:00	223	0	25	22.4	21.1	79	1.54	200	991.20	23.1	23.5	0.4
8/16/05 22:00	185	0	23.9	22	21.1	84	0.00	0	990.52	22.9	23.4	0.5
8/16/05 23:00	184	0	23.9	22.4	21.7	88	1.54	220	990.18	22.5	23	0.8
8/17/05 0:00	253	0	24.4	22.9	22.2	88	1.54	200	989.84	22.3	23	0.6
8/17/05 1:00	143	0	24.4	23.3	22.8	91	2.06	200	989.84	22	22.7	0.7
8/17/05 2:00	200	0	24.4	22.9	22.2	88	0.00	0	989.50	21.7	22.2	0.5
8/17/05 3:00	106	0	23.3	22.6	22.2	94	0.00	0	989.16	21.8	22.1	0.4
8/17/05 4:00	235	0	22.8	22.1	21.7	94	0.00	0	988.83	21.8	22.2	0.4
8/17/05 5:00	233	0	23.9	22.7	22.2	90	2.57	180	989.16	22.1	22.4	0.3
8/17/05 6:00	223	0	23.9	22.7	22.2	90	1.54	200	988.83	22.4	22.6	0.2
8/17/05 7:00	199	0.44704	25	23.1	22.2	85	3.60	190	988.83	23	23.1	0.1
8/17/05 8:00	216	0.89408	26.1	23.4	22.2	79	2.06	170	988.49	24.4	24.3	-0.2
8/17/05 9:00	214	0.44704	26.7	23.6	22.2	76	3.09	200	988.83	26	25.7	-0.3
8/17/05 10:00	218	0.89408	26.7	24	22.8	79	2.57	180	988.49	25.7	25.4	-0.3
8/17/05 11:00	188	1.34112	28.9	24.6	22.8	70	3.60	170	987.81	27.5	26.6	-0.9
8/17/05 12:00	193	1.78816	30	24.5	22.2	63	4.63	170	986.79	29.1	28.2	-1
8/17/05 13:00	188	2.2352	31.1	25.5	23.3	63	5.14	180	986.12	30	29.2	-0.8
8/17/05 14:00	192	2.2352	31.1	25.2	22.8	61	4.63	180	985.44	30.4	29.7	-0.7
8/17/05 15:00	195	1.78816	32.2	25.8	23.3	59	4.12	210	984.76	30.5	30.1	-0.4
8/17/05 16:00	199	1.78816	32.2	25.8	23.3	59	6.69	190	984.08	31.3	30.9	-0.4
8/17/05 17:00	188	1.78816	32.2	26.2	23.9	62	4.63	170	983.75	30.9	30.8	-0.1
8/17/05 18:00	187	1.34112	31.1	25.5	23.3	63	4.63	170	983.41	29.9	30.3	0.4
8/17/05 19:00	175	1.34112	30	25.6	23.9	70	3.60	160	984.08	28.3	29.1	0.8
8/17/05 20:00	175	1.34112	28.9	25.7	24.4	77	4.63	170	984.42	28.2	28.9	0.7
8/17/05 21:00	170	0.89408	28.3	25.5	24.4	79	3.60	160	984.76	27.3	28	

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
8/14/05 0:00	95	1.2	2.2	1	5.3	0.5	117.3	12.3	0	0	0.04	979.77
8/14/05 1:00	94.9	1	1.8	0.8	4.8	0.4	130	12.3	0	0	0.02	979.96
8/14/05 2:00	95	0.9	1.6	0.7	3.2	0.4	139.4	11.8	0	0	0.01	980.13
8/14/05 3:00	95.8	1	1.6	0.7	2.9	0.3	127.7	11.3	0	0	0	979.9
8/14/05 4:00	96	0.4	1.2	0.8	2.4	0.2	103.6	13.1	0	0	0	979.68
8/14/05 5:00	96	1	1.7	0.7	4.1	0.4	137.1	12.2	0.6	0	0	980.01
8/14/05 6:00	96	1.6	2.3	0.7	5.2	0.5	191.8	13.1	7.3	0.03	0.18	980.82
8/14/05 7:00	96	1.4	2	0.6	3.9	0.5	178.3	12.2	28.7	0.1	0.06	980.95
8/14/05 8:00	96	1.7	2.4	0.7	5.2	0.5	147.7	11.3	27	0.1	0.1	981.33
8/14/05 9:00	96	2.2	3	0.8	5.4	0.7	178.3	12.9	100	0.36	0	982.03
8/14/05 10:00	95.3	2.2	3	0.8	5.8	0.7	153.8	11.8	139.5	0.5	0.04	982.36
8/14/05 11:00	93.3	1.8	2.4	0.6	5.1	0.6	166.3	14.4	296.8	1.07	0	982.22
8/14/05 12:00	88	0.6	1.3	0.6	2.8	0.4	178.8	20.3	298.1	1.07	0	981.9
8/14/05 13:00	87.3	1.5	2	0.6	3.9	0.5	189.1	13.1	248.6	0.89	0.01	982.09
8/14/05 14:00	89.5	0.6	1.1	0.6	3.2	0.3	210.8	14.5	191.8	0.69	0.02	981.99
8/14/05 15:00	89	0.3	1	0.7	2.3	0.3	195.7	11.8	177.3	0.64	0.01	981.84
8/14/05 16:00	90.4	1.2	1.9	0.7	4	0.4	30.3	11.8	165.7	0.6	0	981.64
8/14/05 17:00	92.8	1.7	2.3	0.6	3.8	0.4	42.9	11.2	121.8	0.44	0	981.55
8/14/05 18:00	93.6	1.6	2.3	0.7	4.1	0.5	34.4	12.1	38	0.14	0	981.67
8/14/05 19:00	94.2	1.8	2.5	0.7	4.1	0.5	41.2	11.8	0.8	0	0	982.39
8/14/05 20:00	95	1.9	2.6	0.7	4.6	0.5	40.7	10.4	0	0	0	982.7
8/14/05 21:00	95.7	1.8	2.5	0.7	4.7	0.6	34.3	12.2	0	0	0	982.9
8/14/05 22:00	96	2	2.8	0.8	5.3	0.6	32.3	12.6	0	0	0	982.8
8/14/05 23:00	96	2.2	3.1	0.8	6.2	0.7	34.8	12	0	0	0.01	982.94
8/15/05 0:00	96	2.3	3.2	0.8	5.7	0.7	43.3	13.2	0	0	0.09	982.83
8/15/05 1:00	96	2.3	3.1	0.9	5.5	0.7	46.8	12.8	0	0	0.25	982.51
8/15/05 2:00	96	1.9	2.7	0.9	5.4	0.6	25.2	11.5	0	0	1.1	982.46
8/15/05 3:00	96.1	0.8	1.5	0.7	3.1	0.5	195.5	17.9	0	0	0.47	982.62
8/15/05 4:00	96.7	0.7	1.5	0.7	3.2	0.4	286.6	15.6	0	0	0.01	982.9
8/15/05 5:00	96	0.6	1.3	0.6	3	0.3	179.8	10.6	0.3	0	0	983.21
8/15/05 6:00	96	0.1	0.7	0.6	2	0.2	51.3	12.9	27.2	0.1	0	983.6
8/15/05 7:00	96	0.1	0.7	0.6	1.6	0.2	41.5	10.7	55.8	0.2	0	984.01
8/15/05 8:00	96	0	0.6	0.6	1.3	0.2	143.8	13.8	61.8	0.22	0	984.53
8/15/05 9:00	96	0.1	0.5	0.4	1.4	0.2	195	13.1	162.4	0.58	0.05	984.79
8/15/05 10:00	95.7	0.4	1	0.6	2	0.3	202.6	17.3	198	0.71	0	985.07
8/15/05 11:00	91.3	0.5	1.3	0.8	2.8	0.4	215.9	17.7	374.3	1.35	0	984.97
8/15/05 12:00	84.8	1.2	1.8	0.6	3.5	0.4	227	14.5	402.9	1.45	0	984.98
8/15/05 13:00	77.8	1.9	2.6	0.7	4.8	0.6	219.4	14.9	479.4	1.73	0	984.94
8/15/05 14:00	74.3	2.1	2.9	0.7	5.2	0.6	208.4	11.8	438.4	1.58	0	984.43
8/15/05 15:00	69.6	1.7	2.4	0.8	4.3	0.5	191.8	13.1	387.3	1.39	0	983.85
8/15/05 16:00	69	1.4	2.1	0.7	4.4	0.6	188.6	15.5	345.3	1.24	0	983.73
8/15/05 17:00	75.3	1.1	1.8	0.7	3.9	0.3	209.7	11.2	87.8	0.32	0	983.82
8/15/05 18:00	83.8	0.4	1.3	0.9	2.8	0.2	225.9	11.3	33.6	0.12	0	983.84
8/15/05 19:00	90.3	0.9	1.8	1	3	0.3	201.3	6.9	1.3	0	0	984.16
8/15/05 20:00	91.3	0.2	1.4	1.2	2.7	0.4	280.6	15.5	0	0	0	984.93
8/15/05 21:00	92.3	0.3	1.7	1.4	3.1	0.4	317	12	0	0	0	985.29
8/15/05 22:00	93	0.6	1.7	1.1	3.5	0.4	65.5	10.5	0	0	0	985.42
8/15/05 23:00	93.3	1.2	2.1	1	3.6	0.4	16.7	9.5	0	0	0	985.3
8/16/05 0:00	94.3	0.3	1.1	0.8	2.6	0.2	247.7	14.6	0	0	0	985.28
8/16/05 1:00	95	0.6	1.6	1	2.8	0.3	24.8	9.8	0	0	0	985.05
8/16/05 2:00	95	1	1.9	0.9	3	0.3	31.2	9.1	0	0	0	985.04
8/16/05 3:00	95.2	0	0.8	0.8	1.7	0.2	24.1	7.5	0	0	0	985.18
8/16/05 4:00	95.7	0.6	1.5	0.9	3	0.3	77.4	10.7	0	0	0	985.24
8/16/05 5:00	95	0.9	1.7	0.9	2.9	0.4	53.8	11.1	1.5	0.01	0	985.61
8/16/05 6:00	95	0.9	1.8	0.9	2.9	0.4	29.8	13.7	40.2	0.14	0	986.21
8/16/05 7:00	92.8	1.8	1.5	0.7	3.1	0.4	40.1	14.1	132.5	0.48	0	986.69
8/16/05 8:00	88.1	0.8	1.5	0.7	2.7	0.4	52.3	16.4	203.5	0.73	0	986.69
8/16/05 9:00	81.5	1.2	1.8	0.7	3.9	0.5	51.6	20.9	385	1.39	0	986.68
8/16/05 10:00	72.4	0.8	1.3	0.5	3.2	0.5	73	25	606.5	2.18	0	986.8
8/16/05 11:00	66.3	1	1.6	0.5	4.3	0.6	95.3	23.8	831.9	2.99	0	986.5
8/16/05 12:00	62.7	0.6	1.1	0.6	2.7	0.4	121.8	24.1	487.8	1.76	0	986.04
8/16/05 13:00	61.7	0.8	1.2	0.5	3.3	0.4	138.4	22.9	377.4	1.36	0	985.4
8/16/05 14:00	69.2	1.6	2.3	0.7	3.8	0.4	197.1	10.2	240.9	0.87	0	984.99
8/16/05 15:00	69.5	0.9	1.6	0.7	3.1	0.4	206.2	12.7	208.4	0.75	0	984.34
8/16/05 16:00	74.3	0.7	1.6	0.9	2.5	0.3	202.4	10	120.6	0.43	0	984.09
8/16/05 17:00	78	0.5	1.3	0.9	2.4	0.2	181	7.8	85.5	0.31	0	983.82
8/16/05 18:00	81.8	0.2	1.3	1.2	2.1	0.2	190.9	8.8	69.8	0.25	0	983.56
8/16/05 19:00	86.8	0	1.4	1.4	2.3	0.2	175.6	5.3	7.9	0.03	0	983.74
8/16/05 20:00	91.3	0.4	1.6	1.2	3	0.2	166.3	6.7	0	0	0	984.2
8/16/05 21:00	91.4	0.6	1.7	1.2	2.7	0.3	168.8	8.1	0	0	0	984.38
8/16/05 22:00	92	0.2	1.4	1.1	2.3	0.2	175.6	8.7	0	0	0	983.89
8/16/05 23:00	91.5	0.7	1.9	1.3	3.1	0.2	186.8	6.4	0	0	0	983.43
8/17/05 0:00	91.7	0.9	2	1	3.1	0.3	195.2	7.6	0	0	0	983.28
8/17/05 1:00	93.3	0.1	1.3	1.2	2.4	0.3	238.1	10.8	0	0	0	983.07
8/17/05 2:00	94.6	0.1	0.8	0.7	2.1	0.2	203.9	13.8	0	0	0	982.79
8/17/05 3:00	95	0	0.5	0.5	1.1	0.1	225.6	8.6	0	0	0	982.41
8/17/05 4:00	95	0	0.4	0.4	1.3	0.1	78.3	4.8	0	0	0	982.15
8/17/05 5:00	95	0.1	0.9	0.8	1.8	0.2	145	8.4	3.3	0.01	0	982.17
8/17/05 6:00	94.9	0.5	1.2	0.8	2.8	0.3	142.2	11.5	43.8	0.16	0	982.2
8/17/05 7:00	94.4	1.1	1.7	0.6	3	0.3	153.8	11.7	110.8	0.4	0	982.06
8/17/05 8:00	88.1	1.9	2.8	0.8	5.3	0.6	171.7	12	290	1.04	0	982.03
8/17/05 9:00	79.6	1.7	2.4	0.7	4.4	0.6	165.4	14.3	306.4	1.1	0	981.71
8/17/05 10:00	82.1	2.1	2.9	0.8	5.2	0.6	155.1	13.9	330.5	1.19	0	981.78
8/17/05 11:00	74.8	2	2.6	0.6	4.5	0.7	141.8	21.1	743.6	2.68	0	981.04
8/17/05 12:00	69	2.3	3.1	0.8	5.9	0.7	176.8	18.6	786.3	2.83	0	980.15
8/17/05 13:00	66.4	2.8	3.8	0.9	6.9	0.9	161.3	14.3	715.6	2.58	0	979.49
8/17/05 14:00	64.8	2.4	3.1	0.8	6.8	0.8	153.7	15.5	623.4	2.24	0	978.98
8/17/05 15:00	64.9	2.7	3.6	0.9	7.3	0.8	184.4	13.1	416.7	1.5	0	978.22
8/17/05 16:00	62.2	2.9	3.9	1	6.5	0.8	159.9	12.3	436.3	1.57	0	977.67
8/17/05 17:00	64	2.3	3.2	0.9	5.2	0.6	155.6	11.8	222.6	0.6	0	977.2
8/17/05 18:00	68.5	1.6	2.4	0.8	5.3	0.5	148.4	11.4	49.3	0.18	0	976.83
8/17/05 19:00	72.8	1.2	2.1	0.9	3.9	0.4	175.9	10	1.8	0.01	0	977.06
8/17/05 20:00	74.9	1.5	2.3	0.8	5.4	0.6	164.5	14.5	-0.1	0	0	977.39
8/17/05 21:00	80.2	1.3	2.1	0.8	4.1	0.5	166.6	13	-0.2	0	0	977.8
8/17/05 22:00	85	1.3	2.2	1	3.6	0.4	183.3	9.7	0	0	0	977.61
8/17/05 23:00	84.4	1.7	2.8	1.1	4.5	0.4	163.5	8	0	0	0	977.35
8/18/05 0:00	82.6	2.3	3.5	1.2	5.7	0.5	166.8	7.6	0	0	0	976.86
8/18/05 1:00	79.2	2.4	3.7	1.3	6.3	0.5	165.9	8.7	0	0	0	976.73
8/18/05 2:00	74.8	2.2	3.3	1.2	5.5	0.6	166.9	9.6	0	0	0	976.68
8/18/05 3:00	76.5	2.1	3									

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
8/18/05 15:00	0.04145	34.6	2.4	4.9	180	13	0.044	0	0.005	0.005	21.1	36.11	44	
8/18/05 16:00	0.04083	33.4	1.5	6.7	180	12.5	0.042	0	0.002	0.002	19.3	35.56	43	
8/18/05 17:00	0.04153	32.6	0.6	5.4	180	14.3	0.04	0	0.003	0.003	18.6	35.00	44	
8/18/05 18:00	0.04373	31.9	0.8	3.6	180	10.7	0.039	0	0.004	0.004	17.9	33.33	50	
8/18/05 19:00	0.03996	31.1	1.2	5.4	180	12.1	0.03	0	0.009	0.009	15.5	31.67	56	
8/18/05 20:00	0.03284	36.1	0.7	6.3	180	10.7	0.02	0	0.018	0.017	16.9	30.56	61	
8/18/05 21:00	0.03496	29.6	0.5	8.5	180	13	0.024	0	0.015	0.014	19.6	30.00	63	
8/18/05 22:00	0.03603	29	0.8	8.5	180	13.9	0.026	0	0.018	0.018	18.7	29.44	66	
8/18/05 23:00	0.04611	28.9	0.4	8.5	180	14.8	0.037	0	0.008	0.007	18	28.89	63	
8/19/05 0:00	0.05186	28.9	0.6	5.4	180	13	0.035	0	0.009	0.008	15.3	28.89	61	
8/19/05 1:00	0.04469	28.2	1	5.8	180	14.3	0.026	0	0.011	0.01	14.6	28.33	63	
8/19/05 2:00	0.03584	27.3	0.9	4	157.5	12.5	0.018	0	0.014	0.014	17.1	27.22	68	
8/19/05 3:00	0.02977	26.3	0.9	4.5	180	10.3	0.022	0	0.007	0.007	14	26.67	70	
8/19/05 4:00	0.0269	25.5	0.6	4	180	9.4	0.011	0	0.016	0.015	16.4	26.11	73	
8/19/05 5:00	0.0261	25.1	0.4	2.7	180	8	0.013	0	0.014	0.014	17.2	26.11	74	
8/19/05 6:00	0.02143	24.7	0.4	4	180	10.7	0.011	0.002	0.015	0.017	17.9	26.67	72	
8/19/05 7:00	0.02203	24.8	0.7	2.7	180	9.8	0.017	0.003	0.011	0.015	17.6	28.89	65	
8/19/05 8:00	0.02239	25.6	1	4.5	180	12.1	0.029	0.002	0.007	0.009	16.2	30.56	59	
8/19/05 9:00	0.0296	28	3.7	3.6	180	12.5	0.038	0.001	0.007	0.008	17.3	32.22	55	
8/19/05 10:00	0.03817	31.3	2.3	3.1	180	8.5	0.046	0	0.005	0.005	17.3	33.89	51	
8/19/05 11:00	0.04421	33.2	3.7	4	180	9.8	0.047	0	0.006	0.006	16.8	34.44	50	
8/19/05 12:00	0.0449	35	2.7	4.9	202.5	10.7	0.049	0	0.005	0.005	20	35.00	51	
8/19/05 13:00	0.04422	34.4	2	7.2	202.5	11.2	0.048	0	0.006	0.007	19	35.00	51	
8/19/05 14:00	0.03653	35	2.4	5.8	202.5	12.5	0.044	0.001	0.006	0.006	16.2	35.56	48	
8/19/05 15:00	0.04341	34.3	2.9	6.3	202.5	14.3	0.042	0	0.005	0.005	19.7	35.56	48	
8/19/05 16:00	0.03287	33	0.9	7.2	180	13.9	0.042	0	0.003	0.003	17.6	35.56	47	
8/19/05 17:00	0.0405	32.6	0.6	5.4	180	12.1	0.042	0	0.002	0.002	15.3	34.44	47	
8/19/05 18:00	0.04215	31.8	1	5.4	180	11.6	0.039	0	0.007	0.006	17.3	33.33	51	
8/19/05 19:00	0.04019	30.9	0.9	5.4	180	11.6	0.031	0	0.012	0.011	17.5	31.67	56	
8/19/05 20:00	0.03568	30	0.7	5.8	180	11.2	0.018	0	0.024	0.024	18	30.56	60	
8/19/05 21:00	0.03883	29.7	0.5	7.2	180	13	0.02	0	0.025	0.025	17.2	30.00	63	
8/19/05 22:00	0.04021	29.4	0.5	8.5	180	12.5	0.026	0	0.02	0.019	15.8	29.44	64	
8/19/05 23:00	0.04271	29.2	0.5	7.2	180	13	0.031	0	0.01	0.009	13	28.89	66	
8/20/05 0:00	0.04726	29.1	0.9	3.1	22.5	10.7	0.014	0	0.022	0.023	19.6	27.22	72	
8/20/05 1:00	0.04059	27.8	1.3	3.1	0	7.6	0.024	0	0.01	0.009	15.7	27.78	70	
8/20/05 2:00	0.03462	27.2	0.5	3.1	0	8.9	0.019	0	0.011	0.01	17.3	27.78	70	
8/20/05 3:00	0.02967	26.6	0.6	3.6	180	10.3	0.017	0	0.011	0.011	17	27.22	72	
8/20/05 4:00	0.02698	26.1	0.8	3.6	180	11.2	0.009	0	0.017	0.017	20.8	26.67	75	
8/20/05 5:00	0.02158	25.3	0.6	2.7	202.5	7.6	0.013	0	0.01	0.01	18.6	26.11	77	
8/20/05 6:00	0.01405	24.9	0.4	1.8	180	6.3	0.013	0.001	0.012	0.013	20.9	26.67	75	
8/20/05 7:00	0.0188	25.1	0.4	3.6	180	10.3	0.019	0.002	0.009	0.011	18.7	28.89	70	
8/20/05 8:00	0.02125	25.5	0.9	3.1	180	8.9	0.026	0.001	0.004	0.006	17.2	30.56	64	
8/20/05 9:00	0.0243	28.6	5.8	2.2	0	6.3	0.036	0	0.002	0.002	14.8	31.67	60	
8/20/05 10:00	0.03002	34.3	5.6	1.8	0	4.9	0.042	0	0.002	0.002	14	32.22	58	
8/20/05 11:00	0.03632	34.8	3.7	0.9	292.5	3.6	0.039	0.003	0.007	0.01	14.2	30.00	65	
8/20/05 12:00	0.04047	34.9	5.3	3.6	22.5	9.8	0.052	0.002	0.009	0.012	18.5	31.67	60	
8/20/05 13:00	0.05256	35.6	3.5	2.2	22.5	7.2	0.052	0.002	0.009	0.01	19.1	31.67	56	
8/20/05 14:00	0.06024	34.1	11	3.1	202.5	10.3	0.043	0.001	0.004	0.005	6.2	27.22	61	
8/20/05 15:00	0.04261	25	3.3	4.9	22.5	13.4	0.038	0	0.004	0.003	14.8	23.89	85	
8/20/05 16:00	0.03918	23.8	2.4	2.7	225	9.8	0.034	0	0.006	0.006	10.7	23.33	92	
8/20/05 17:00	0.05071	24.1	2.7	2.7	225	13	0.024	0	0.011	0.012	14.3	24.44	91	
8/20/05 18:00	0.04263	24.8	1.7	2.7	112.5	7.2	0.028	0	0.005	0.004	12.2	23.89	90	
8/20/05 19:00	0.03433	23	1.2	2.2	292.5	9.8	0.023	0	0.005	0.004	9.3	23.33	92	
8/20/05 20:00	0.0289	22.7	0.3	2.7	0	7.6	0.016	0	0.009	0.009	12.4	23.33	93	
8/20/05 21:00	0.0402	24.3	2.4	3.6	202.5	8.9	0.033	0.002	0.003	0.003	18	23.33	93	
8/20/05 22:00	0.05042	25.3	2	5.4	180	8.9	0.006	0.003	0.02	0.023	14.7	23.33	93	
8/20/05 23:00	0.03116	24.5	4.6	2.2	180	8.9	0.015	0	0.005	0.005	10.2	23.33	93	
8/21/05 0:00	0.02786	22.3	0.6	2.2	45	7.2	0.008	0	0.006	0.006	11.4	22.78	94	
8/21/05 1:00	0.02773	22.4	0.5	2.2	22.5	5.8	0.001	0.004	0.009	0.013	16.2	22.22	95	
8/21/05 2:00	0.0214	21.9	0.4	0.4	225	2.7	0.003	0.001	0.007	0.008	13.2	22.22	95	
8/21/05 3:00	0.01727	22.1	0.6	1.3	0	3.6	0.003	0	0.007	0.007	13	22.22	95	
8/21/05 4:00	0.0272	22.6	0.6	0.9	112.5	4	0.016	0	0.004	0.004	11.4	22.78	94	
8/21/05 5:00	0.02251	22.3	1	0.9	180	5.4	0.015	0	0.003	0.003	12.3	22.22	92	
8/21/05 6:00	0.04379	22.8	0.7	0.9	225	2.7	0.009	0.001	0.004	0.004	11.8	22.22	93	
8/21/05 7:00	0.04242	23.1	1.4	0.9	67.5	4.5	0.017	0.001	0.004	0.005	12.2	24.44	84	
8/21/05 8:00	0.04225	24.2	0.8	0.9	90	3.1	0.03	0	0.002	0.002	13	27.22	71	
8/21/05 9:00	0.03727	27.4	7.8	0.4	67.5	2.7	0.041	0.001	0.003	0.004	10.3	28.89	62	
8/21/05 10:00	0.04437	34.7	5.4	0.4	45	3.1	0.046	0	0.002	0.002	6.1	28.89	59	
8/21/05 11:00	0.04865	33.3	6.2	0.4	315	2.2	0.05	0	0.002	0.002	10.6	30.00	55	
8/21/05 12:00	0.05115	34.8	3.3	0.4	90	1.8	0.052	0	0.002	0.002	11.5	30.00	55	
8/21/05 13:00	0.05211	33.3	2.8	0.9	292.5	2.7	0.059	0	0.001	0.001	14.9	31.11	49	
8/21/05 14:00	0.06832	40	8	0.9	180	3.1	0.051	0	0.003	0.002	13.9	31.11	50	
8/21/05 15:00	0.08061	36.7	3.8	0.9	292.5	4	0.054	0	0.002	0.002	11.6	30.56	57	
8/21/05 16:00	0.05732	33.1	3.7	2.7	292.5	5.8	0.045	0	0.002	0.002	12.8	28.89	62	
8/21/05 17:00	0.04926	29.6	3	3.6	292.5	6.7	0.044	0	0.002	0.002	11.4	29.44	62	
8/21/05 18:00	0.04517	29.3	1.4	0.9	292.5	4.5	0.039	0	0.003	0.003	11.3	28.89	64	
8/21/05 19:00	0.04429	27.8	3.3	0.4	202.5	2.2	0.014	0.004	0.019	0.023	13.8	26.11	76	
8/21/05 20:00	0.0447	25.6	0.8	0.9	225	2.7	0.001	0.017	0.024	0.042	13	25.00	84	
8/21/05 21:00	0.05395	25.7	0.3	1.3	45	3.6	0.001	0.015	0.018	0.033	14.5	24.44	87	
8/21/05 22:00	0.04908	25.8	0.1	3.1	22.5	4.9	0.003	0.004	0.015	0.019	13.8	24.44	87	
8/21/05 23:00	0.04783	25.7	0.6	1.8	45	4.5	0.004	0	0.011	0.012	14.7	24.44	87	
8/22/05 0:00	0.04055	25.1	0.4	0.4	225	2.7	0.011	0	0.007	0.007	12.9	24.44	85	
8/22/05 1:00	0.03237	24.4	0.9	0.4	247.5	2.7	0.01	0	0.004	0.004	16	23.89	90	
8/22/05 2:00	0.0402	24.1	0.5	0.4	0	3.6	0.004	0	0.005	0.005	13.5	23.89	93	
8/22/05 3:00	0.02906	24.4	0.4	1.8	112.5	4.5	0.003	0	0.006	0.006	12.1	23.89	93	
8/22/05 4:00	0.04247	24.2	0.9	1.8	112.5	4	0.005	0	0.007	0.007	15.6	23.89	93	
8/22/05 5:00	0.03609	23.2	0.9	1.8	112.5	5.4	0.015	0	0.008	0.007	19.6			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _d (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
8/18/05 15:00	207	1.78816	35.6	25.7	21.7	44	9.26	190	983.07	34.5	33.9	-0.5
8/18/05 16:00	210	2.2352	35	25.5	21.7	46	9.77	190	982.73	33.8	33.5	-0.3
8/18/05 17:00	216	1.78816	34.4	25	21.1	46	8.75	200	982.73	32.9	32.9	0
8/18/05 18:00	211	1.34112	33.3	25.1	21.7	51	6.69	200	983.07	31.5	31.9	0.4
8/18/05 19:00	206	1.34112	31.7	25	22.2	57	4.63	190	983.07	29.8	30.4	0.7
8/18/05 20:00	209	0.89408	31.7	24.7	21.7	55	5.14	190	983.75	28.4	29.2	0.8
8/18/05 21:00	210	0.89408	30.6	24.7	22.2	61	4.63	180	983.75	27.5	28.4	0.8
8/18/05 22:00	209	0.89408	30.6	24	21.1	57	5.66	200	983.75	26.9	27.6	0.8
8/18/05 23:00	221	0.89408	30.6	23.7	20.6	55	5.66	210	984.42	27.1	27.9	0.8
8/19/05 0:00	218	0.89408	29.4	23.4	20.6	59	5.14	200	984.76	27.6	28.3	0.6
8/19/05 1:00	218	0.89408	28.3	23.1	20.6	63	5.14	200	985.10	27.8	28.3	0.5
8/19/05 2:00	208	0.89408	27.8	23.2	21.1	67	6.17	200	985.44	27.1	27.7	0.6
8/19/05 3:00	208	0.89408	27.8	23.2	21.1	67	5.14	200	985.78	26.8	27.3	0.5
8/19/05 4:00	214	0.89408	26.7	22.9	21.1	71	4.63	190	986.12	26.3	26.9	0.5
8/19/05 5:00	213	0.89408	26.1	22.7	21.1	74	5.14	200	986.45	26.4	26.8	0.5
8/19/05 6:00	216	0.89408	27.2	23	21.1	69	5.14	200	986.79	26.2	26.4	0.1
8/19/05 7:00	208	1.34112	28.9	23.9	21.7	65	4.63	200	987.13	27.9	27.6	-0.3
8/19/05 8:00	210	1.34112	30.6	24.4	21.7	59	6.69	210	987.13	29.4	28.8	-0.7
8/19/05 9:00	207	1.78816	32.2	24.8	21.7	54	6.17	200	987.47	30.8	29.9	-0.9
8/19/05 10:00	205	1.78816	33.3	25.4	22.2	52	5.66	190	987.13	32.4	31.4	-1
8/19/05 11:00	200	2.2352	33.9	25.6	22.2	50	8.23	190	986.45	33.3	32.4	-0.9
8/19/05 12:00	192	2.68224	35	26.2	22.8	49	6.69	190	986.45	33.9	33	-0.9
8/19/05 13:00	199	2.2352	35	26.2	22.8	49	7.72	170	986.12	34.3	33.5	-0.9
8/19/05 14:00	201	2.2352	35.6	26	22.2	46	8.75	190	985.78	34.5	33.8	-0.8
8/19/05 15:00	201	2.2352	35	25.8	22.2	47	7.72	200	985.78	34.4	33.7	-0.6
8/19/05 16:00	211	1.78816	35	25.8	22.2	47	7.72	190	985.44	33.7	33.3	-0.4
8/19/05 17:00	212	1.78816	33.9	25.3	21.7	49	7.20	190	985.10	32.9	32.8	-0.1
8/19/05 18:00	206	1.34112	32.8	24.6	21.1	50	6.69	200	985.44	31.3	31.6	0.3
8/19/05 19:00	204	1.34112	32.2	24.8	21.7	54	5.14	190	985.78	29.5	30.3	0.7
8/19/05 20:00	207	0.89408	31.7	25	22.2	57	5.14	180	986.45	28.8	29.6	0.8
8/19/05 21:00	210	0.89408	30.6	24.7	22.2	61	4.12	180	986.79	28	28.9	0.9
8/19/05 22:00	222	0.89408	30	24.2	21.7	61	4.12	180	987.13	27.6	28.5	0.9
8/19/05 23:00	231	0.44704	30	23.9	21.1	59	2.57	200	988.15	27.2	28.2	1
8/20/05 0:00	217	0.44704	28.9	23.5	21.1	63	4.63	190	988.49	27.2	28	0.9
8/20/05 1:00	216	0.89408	28.3	23.7	21.7	67	4.63	200	988.83	26.8	27.6	0.7
8/20/05 2:00	216	0.89408	28.3	23.7	21.7	67	5.14	200	988.83	26.6	27.1	0.6
8/20/05 3:00	220	0.89408	27.8	23.6	21.7	69	4.12	210	989.16	26.3	26.8	0.5
8/20/05 4:00	205	0.89408	26.7	23.6	22.2	76	3.60	20	990.18	25.6	26.3	0.7
8/20/05 5:00	146	0.89408	26.1	23.4	22.2	79	1.54	120	990.18	25.8	26.5	0.7
8/20/05 6:00	201	0.89408	27.2	23.8	22.2	74	4.63	180	990.52	26.1	26.2	0.1
8/20/05 7:00	201	1.34112	28.9	24.6	22.8	70	3.60	210	990.86	27.4	26.9	-0.5
8/20/05 8:00	215	1.34112	30.6	25.1	22.8	63	3.09	230	990.86	29.1	28.4	-0.8
8/20/05 9:00	201	1.34112	31.7	25.4	22.8	59	2.57	190	991.53	30	29.3	-0.7
8/20/05 10:00	201	1.34112	33.3	26.1	23.3	56	3.60	360	991.87	25.8	25.7	-0.1
8/20/05 11:00	51	4.02336	32.2	25.8	23.3	59	6.69	50	991.53	27.1	26.2	-0.9
8/20/05 12:00	84	2.68224	32.8	26.4	23.9	59	4.63	70	990.86	29.7	28.6	-1
8/20/05 13:00	42	4.4704	28.9	23.5	21.1	63	7.20	30	990.86	27.2	26.5	-0.7
8/20/05 14:00	69	4.02336	25	22.4	21.1	79	3.09	120	991.53	25.5	25.3	-0.2
8/20/05 15:00	243	2.68224	23.9	22.4	21.7	88	5.66	20	991.87	23.1	23.6	0.5
8/20/05 16:00	156	1.34112	25	23.1	22.2	85	2.57	130	990.18	23.1	23.2	0.1
8/20/05 17:00	214	0.44704	25.6	23.3	22.2	82	0.00	0	991.20	23.1	23.3	0.2
8/20/05 18:00	257	1.34112	23.9	22.7	22.2	90	4.63	280	991.53	22.8	23	0.2
8/20/05 19:00	217	0.44704	24.4	22.6	21.7	85	2.57	240	991.53	22.6	22.9	0.2
8/20/05 20:00	206	0.44704	23.9	22.7	22.2	90	1.54	0	991.53	22.6	22.9	0.2
8/20/05 21:00	189	0.44704	24.4	22.6	21.7	85	0.00	0	990.86	22.6	22.6	0
8/20/05 22:00	135	1.78816	23.9	22.7	22.2	90	3.09	40	992.21	22.3	22.3	0
8/20/05 23:00	151	1.34112	23.3	22.6	22.2	94	0.00	0	992.55	21.8	22	0.2
8/21/05 0:00	198	0.44704	23.3	22.6	22.2	94	1.54	60	992.21	21.6	22	0.4
8/21/05 1:00	192	0	22.8	22.1	21.7	94	0.00	0	991.87	21.6	22	0.4
8/21/05 2:00	247	0.44704	22.8	22.1	21.7	94	2.57	270	992.21	21.2	21.8	0.5
8/21/05 3:00	210	0.44704	23.3	22.6	22.2	94	0.00	0	992.55	21.6	22.1	0.5
8/21/05 4:00	222	1.34112	22.8	22.1	21.7	94	2.06	350	992.89	21.7	21.9	0.2
8/21/05 5:00	128	0.44704	22.8	21.7	21.1	90	0.00	0	992.55	21.2	21.5	0.3
8/21/05 6:00	218	0.44704	23.9	22	21.1	84	1.54	100	992.55	21.9	21.9	0
8/21/05 7:00	172	0.44704	25	22.1	20.6	77	0.00	0	992.55	23.8	23.6	-0.3
8/21/05 8:00	173	0.44704	27.2	23.1	21.1	69	1.54	30	992.55	26.1	25.5	-0.6
8/21/05 9:00	91	0.89408	29.4	23.7	21.1	61	1.54	80	992.89	27.7	27.1	-0.7
8/21/05 10:00	139	0.89408	28.9	23.2	20.6	61	2.57	310	993.23	27.7	27.4	-0.3
8/21/05 11:00	141	0.44704	29.4	23.7	21.1	61	2.57	320	992.89	28.7	28.1	-0.6
8/21/05 12:00	188	0.44704	30	23.2	20	55	0.00	0	992.55	29.9	28.2	-1.7
8/21/05 13:00	227	0.44704	31.1	22.9	18.9	48	1.54	0	992.21	28.3	28.7	-0.4
8/21/05 14:00	262	0.89408	31.1	23.2	20.6	50	3.60	320	991.20	28.8	28.1	-0.7
8/21/05 15:00	305	1.78816	31.1	23.9	20.6	54	4.12	310	990.18	28.2	28	-0.2
8/21/05 16:00	312	2.2352	29.4	23.7	21.1	61	3.60	330	990.18	27.8	27.7	-0.1
8/21/05 17:00	240	1.78816	29.4	24.4	22.2	65	3.60	340	989.84	28.4	28.1	-0.2
8/21/05 18:00	138	1.34112	27.2	23.4	21.7	72	2.06	350	989.84	27.1	27.4	0.3
8/21/05 19:00	118	0.44704	27.2	22.7	20.6	67	1.54	30	989.84	25	26.8	1.8
8/21/05 20:00	206	0	26.7	22.9	21.1	71	0.00	0	990.52	25.4	26.6	1.3
8/21/05 21:00	127	0	26.1	23.4	22.2	79	0.00	0	990.52	25.3	26.3	1
8/21/05 22:00	148	0	25.6	23.3	22.2	82	1.54	100	990.52	25	26	1
8/21/05 23:00	214	0	26.1	23.1	21.7	77	0.00	0	990.18	24.4	25.5	1.1
8/22/05 0:00	205	0.44704	24.4	23.3	22.8	91	2.06	330	989.84	24.2	25.1	0.9
8/22/05 1:00	195	0.44704	25	23.1	22.2	85	0.00	0	989.16	23.8	24.7	0.9
8/22/05 2:00	151	0	25	23.5	22.8	88	0.00	0	988.83	24	24.8	0.8
8/22/05 3:00	200	0.44704	25	23.8	23.3	90	1.54	320	988.83	23.9	24.6	0.7
8/22/05 4:00	261	0.89408	25	23.8	23.3	90	3.60	280	989.84	23.3	23.8	0.5
8/22/05 5:00	282	1.78816	23.9	23.1	22.8	94	4.63	280	990.52	23	23.2	0.2
8/22/05 6:00	255	1.34112	22.8	21.3	20.6	87	2.57	270	990.86	22.2	22.4	0.2
8/22/05 7:00	198	0.44704	22.2	21.5	21.1	94	2.06	360	990.52	21.5	21.7	0.2
8/22/05 8:00	193	0.89408	22.8	21.7	21.1	90	2.57	320	990.86	21.7	21.7	0
8/22/05 9:00	136	0.89408	23.9	21.7	20.6	82	2.06	10	990.52	22	21.9	-0.1
8/22/05 10:00	120	0.44704	24.4	22.2	21.1	82	0.00	0	990.18	23.1	22.8	-0.3
8/22/05 11:00	90	0.89408	25	22.4	21.1	79	1.54	130	989.84	23.8	23.2	-0.5
8/22/05 12:00	104	1.34112	26.7									

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Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
8/18/05 15:00	46.9	4.4	6.1	1.7	10	1.2	168.2	11.3	627.9	2.26	0	976.16
8/18/05 16:00	48.5	4.6	6.6	2	11.3	1.3	178.3	10.8	455.2	1.64	0	976.12
8/18/05 17:00	50.7	4.4	6.2	1.8	10.4	1.3	175.3	10.8	265	0.95	0	976.04
8/18/05 18:00	55.2	3.4	5	1.6	8.7	0.9	170.8	9.6	44.6	0.16	0	975.95
8/18/05 19:00	61.4	2.4	3.7	1.3	5.8	0.5	167.4	8.8	1.6	0.01	0	976.3
8/18/05 20:00	68.5	1.8	3.1	1.3	5.7	0.5	169.4	8.5	0	0	0	976.76
8/18/05 21:00	73.6	1.7	2.9	1.2	4.7	0.4	168.4	7.9	0	0	0	976.97
8/18/05 22:00	76	1.4	2.7	1.2	4	0.4	174.3	8.9	0	0	0	976.99
8/18/05 23:00	72.8	1.9	3.3	1.4	5.5	0.6	174.4	9.1	0	0	0	977.4
8/19/05 0:00	67.6	2.7	4.3	1.6	7.6	0.8	176.3	9.1	0	0	0	977.78
8/19/05 1:00	64.5	3	4.5	1.5	7.6	0.8	181.1	9.1	0	0	0	978.08
8/19/05 2:00	66.8	2.5	3.9	1.4	6.9	0.7	183.7	9.3	0	0	0	978.26
8/19/05 3:00	68.3	2.7	4.1	1.4	7.2	0.8	180.8	9.7	0	0	0	978.58
8/19/05 4:00	69.8	2.5	4	1.5	7	0.7	180.2	9.3	0	0	0	978.88
8/19/05 5:00	70.3	2.7	4.1	1.4	6.7	0.7	183.8	9.2	2.3	0.01	0	979.19
8/19/05 6:00	72.7	2.5	3.7	1.2	6.4	0.6	176.3	10	92.6	0.33	0	979.63
8/19/05 7:00	68	2.8	4.1	1.3	7.5	0.8	178.2	10.2	276.8	1	0	979.88
8/19/05 8:00	63.3	3.3	4.6	1.3	8.2	0.8	170.9	11.6	466.1	1.68	0	980.2
8/19/05 9:00	59.6	3.3	4.7	1.3	7.9	0.9	171.8	11.6	642.2	2.31	0	980.3
8/19/05 10:00	55.5	3.3	4.4	1.1	7.6	1	163.1	13.1	777.5	2.8	0	980.07
8/19/05 11:00	53.1	3.9	5.3	1.4	8.8	1.2	165.3	12.6	859.3	3.09	0	979.72
8/19/05 12:00	50.9	4.2	5.8	1.5	9.9	1.2	170.8	12.4	880.9	3.17	0	979.48
8/19/05 13:00	49.8	4.3	5.8	1.6	9.1	1.2	169.3	12.5	851.7	3.07	0	979.31
8/19/05 14:00	48.6	4.2	5.8	1.6	10.4	1.2	166.9	12	767.8	2.76	0	979
8/19/05 15:00	49	4.2	5.8	1.6	9.7	1.1	170.3	12.3	633.1	2.28	0	978.85
8/19/05 16:00	50.1	4.3	6.1	1.8	10.4	1.3	170.1	11.5	438.8	1.58	0	978.61
8/19/05 17:00	52.7	3.9	5.5	1.6	11	1.2	170	10.5	261.9	0.94	0	978.41
8/19/05 18:00	59.1	2.6	3.8	1.2	7	0.8	166.3	10.1	42.5	0.15	0	978.56
8/19/05 19:00	65.2	1.6	2.7	1.1	4.6	0.4	161.3	8.7	1.2	0	0	979.22
8/19/05 20:00	68.8	1.4	2.5	1.1	4.1	0.4	150.6	8.5	0	0	0	979.64
8/19/05 21:00	70.8	1.4	2.5	1.1	3.8	0.4	155.3	8.2	0	0	0	979.88
8/19/05 22:00	71.3	1.6	2.7	1.2	4.2	0.4	162	7.6	0	0	0	980.24
8/19/05 23:00	73.3	1.4	2.7	1.3	4.8	0.4	183.8	7.7	0	0	0	981.09
8/20/05 0:00	72.6	1.6	2.8	1.2	4.3	0.4	184.4	7.6	0	0	0	981.58
8/20/05 1:00	73.5	1.5	2.9	1.4	5.1	0.4	177.3	7.9	0	0	0	981.68
8/20/05 2:00	73.4	2.2	3.5	1.3	5.2	0.5	185.5	8.4	0	0	0	981.8
8/20/05 3:00	74.7	1.6	2.6	1	5.7	0.5	248.2	11.4	0	0	0	982.4
8/20/05 4:00	79.7	0.6	1.6	1	2.9	0.4	71.4	11.1	0	0	0	983.03
8/20/05 5:00	78.9	0.8	1.6	0.8	4.8	0.4	154.9	16.1	2.2	0.01	0	983.13
8/20/05 6:00	78	1.8	2.6	0.9	5.7	0.5	155.6	10.2	82.2	0.3	0	983.3
8/20/05 7:00	75.7	1.9	2.7	0.9	5.2	0.5	179.8	11.9	267.6	0.96	0	983.57
8/20/05 8:00	68.9	2.8	3.8	1	6.7	0.7	187.6	11.5	459.8	1.66	0	983.86
8/20/05 9:00	65.3	1.5	2.1	0.6	5.2	0.5	119.9	17.7	387.8	1.4	0	984.81
8/20/05 10:00	77.3	3.1	4.3	1.2	8.3	1	37.8	13.6	173.8	0.63	0.01	985.67
8/20/05 11:00	80.8	2.7	3.6	0.9	6.6	0.9	54.6	15.5	800.8	2.88	0	985.25
8/20/05 12:00	65.9	2.6	3.5	0.9	6.4	0.9	63.7	16.3	790.5	2.85	0	985.03
8/20/05 13:00	64.8	4	5.4	1.4	10.3	1.3	28.7	14.5	463.4	1.67	0	985
8/20/05 14:00	67.4	2.6	3.7	1.1	8.5	1	58.4	16.2	160	0.58	0	984
8/20/05 15:00	84.5	1.9	3	1	10.9	0.9	138.6	20.1	24.7	0.09	0.4	984.68
8/20/05 16:00	89.3	2.2	3.1	0.9	6	0.6	139.8	11.6	49.9	0.18	0.01	984.06
8/20/05 17:00	90.6	1.4	2.3	0.8	5.8	0.5	208	13.7	17.5	0.06	0.01	984.16
8/20/05 18:00	92.3	2.5	3.7	1.2	6.1	0.6	219.9	10.6	3.3	0.01	0	984.48
8/20/05 19:00	92.8	2.2	3.1	0.9	4.7	0.5	212.4	9.1	0	0	0	984.32
8/20/05 20:00	92.9	1.9	2	0.8	4.6	0.4	173.1	11.8	0	0	0	984.08
8/20/05 21:00	94.1	0.9	1.6	0.8	3.3	0.4	70.3	12.8	0	0	0	984.51
8/20/05 22:00	95	1.4	2.3	0.9	5.7	0.6	226.5	16.7	0	0	0.01	985.38
8/20/05 23:00	95	0.2	0.7	0.6	2.1	0.3	113.6	15.2	0	0	0	985.58
8/21/05 0:00	95.3	0	1.2	1.2	2.1	0.2	79.7	8.9	0	0	0	985.3
8/21/05 1:00	96	0	0.9	0.9	2.1	0.1	100.2	11.8	0	0	0	985.09
8/21/05 2:00	96	0	0.5	0.5	1.2	0.1	216.8	4.6	0	0	0	985.31
8/21/05 3:00	96	0.2	1.2	1	3.9	0.3	174.2	7.3	0	0	0	985.4
8/21/05 4:00	95.2	2	2.8	0.9	8.8	0.6	213.6	15	0	0	0.07	986.57
8/21/05 5:00	95.2	0.4	1.2	0.7	3	0.3	87.4	8.4	1.3	0	0	985.66
8/21/05 6:00	95.8	0.5	1.2	0.7	3	0.3	77.1	12.5	86.4	0.31	0	985.53
8/21/05 7:00	92.3	0.4	0.8	0.4	2	0.3	197.2	17	268	0.96	0	985.8
8/21/05 8:00	80.4	0.4	0.9	0.5	2.6	0.3	236.2	20	461.1	1.66	0	986.09
8/21/05 9:00	67.4	0.7	1	0.4	2.6	0.4	92.9	16.4	521.8	1.88	0	986.2
8/21/05 10:00	70.2	0.7	1	0.4	3.1	0.4	225	14.3	433.2	1.56	0	986.63
8/21/05 11:00	68.2	0.5	1	0.5	2.3	0.4	177.3	23.1	466.3	1.68	0	986.46
8/21/05 12:00	68.9	1	1.5	0.5	2.9	0.4	199.1	18.7	482.8	1.74	0	986.24
8/21/05 13:00	64.8	1.3	1.8	0.5	3.6	0.5	209	15.1	502.7	1.81	0	985.67
8/21/05 14:00	63.7	1.3	1.8	0.5	3.3	0.5	229.5	13.8	354.4	1.28	0	985.13
8/21/05 15:00	68.4	1.2	1.7	0.5	3.7	0.4	245.5	15.4	257.4	0.93	0	984.26
8/21/05 16:00	67.3	1.2	1.8	0.6	3.4	0.5	253.2	15.3	227	0.82	0	983.67
8/21/05 17:00	61.8	1.2	1.9	0.7	4.7	0.6	276.3	14.3	273.8	0.99	0	983.39
8/21/05 18:00	66	0	0.5	0.5	1.8	0.2	306.4	9.1	38.1	0.14	0	983.07
8/21/05 19:00	75.2	0.2	1.3	1.2	2.1	0.2	74.5	5.6	0.2	0	0	982.99
8/21/05 20:00	75.3	0.2	1.5	1.3	2.4	0.2	26.5	7.2	-0.2	0	0	983.59
8/21/05 21:00	78	0.3	1.4	1.1	2.7	0.2	19.7	8.2	0	0	0	983.89
8/21/05 22:00	78.9	0.3	1.4	1.1	2.5	0.2	35.7	5.4	0	0	0	983.74
8/21/05 23:00	82.4	0.1	1.2	1.1	2.2	0.2	28.5	6.1	-0.1	0	0	983.53
8/22/05 0:00	83.7	0.1	1	1	1.9	0.1	75.2	7.8	0	0	0	983.26
8/22/05 1:00	86.6	0	0.7	0.7	1.6	0.2	117.8	11.7	0	0	0	982.49
8/22/05 2:00	85.8	0.1	1	0.9	2.7	0.2	98.5	9.4	0	0	0	982.15
8/22/05 3:00	86.9	0.4	1.1	0.7	3.1	0.3	164.8	10.4	0	0	0	982.08
8/22/05 4:00	91.8	0.9	1.7	0.7	4.5	0.4	227.1	13.1	0	0	0	982.58
8/22/05 5:00	92.7	2.2	3.2	1	5.8	0.7	231.6	12	0	0	0.01	983.59
8/22/05 6:00	93.4	0.8	1.5	0.7	5.2	0.4	195.7	11	4.3	0.02	0.07	983.78
8/22/05 7:00	93.8	0.3	0.9	0.6	2.5	0.3	195.9	8.2	20.7	0.07	0.03	983.79
8/22/05 8:00	93.6	0.2	0.7	0.5	4.3	0.3	121	12.6	76.8	0.29	0.05	983.89
8/22/05 9:00	93	0.6	1.2	0.6	3.7	0.4	195.7	17.9	122.2	0.44	0	983.85
8/22/05 10:00	91.4	0.6	1.2	0.6	2.6	0.3	169.2	18.2	245.4	0.88	0	983.36
8/22/05 11:00	88.9	1.1	1.6	0.5	2.8	0.4	132.3	17.7	358.2	1.29	0	983.05
8/22/05 12:00	82.1	1.1	1.7	0.6	3.1	0.5	128.2	18.9	380.9	1.37	0	982.27
8/22/05 13:00	76.5	1.2	1.8	0.6	3.9	0.6	123	19.2	674.7	2.43	0	981.95
8/22/05 14:00	70	0.8	1.2	0.4	2.9	0.5	154.8	22.3	510.3	1.84	0	981.27
8/22/05 15:00	66.8	1	1.5	0.5	3.2	0.4	183.4	24.2	545.3	1.96	0	980.43
8/22/05 16:00	65.5	0.9	1.5	0.5	3.2	0.4	175.5	21.9	438.8	1.58	0	979.69
8/22/05 17:00	65.5	0.4	1	0.5	2.7	0.3	197.2	15.1	243.3	0.88	0	979.09

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
8/23/05 6:00	0.03856	20.8	2.6	4	225	12.1	0.035	0.001	0.007	0.009	14.1	20.00	94		
8/23/05 7:00	0.03966	19.5	0.7	1.3	202.5	6.3	0.028	0	0.014	0.014	10.4	20.00	95		
8/23/05 8:00	0.03976	20.2	1.2	2.2	112.5	8.5	0.023	0.002	0.019	0.021	12.6	21.11	95		
8/23/05 9:00	0.0316	20.9	0.9	3.6	112.5	8.5	0.018	0.007	0.022	0.029	15.2	22.78	92		
8/23/05 10:00	0.01531	21.6	0.7	2.7	202.5	5.4	0.015	0.014	0.025	0.038	14.6	23.89	98		
8/23/05 11:00	0.0194	23.3	7.1	3.6	202.5	6.3	0.031	0.005	0.013	0.018	15.2	26.67	77		
8/23/05 12:00	0.01564	33.4	9.8	0.9	202.5	4	0.035	0.004	0.014	0.018	13.3	27.78	69		
8/23/05 13:00	0.02491	35.4	6	0.4	135	2.2	0.055	0.001	0.008	0.009	15.2	28.89	63		
8/23/05 14:00	0.0415	35	4.3	0.9	292.5	4	0.05	0	0.001	0.001	8.3	29.44	56		
8/23/05 15:00	0.05401	36.9	5.7	0.9	292.5	4.5	0.048	0	0.001	0	9.7	30.56	56		
8/23/05 16:00	0.05781	33.9	4.8	0.9	315	3.6	0.044	0	0.001	0	9.3	30.56	55		
8/23/05 17:00	0.04657	31.8	1.9	0.9	292.5	2.7	0.043	0	0	0	9	30.56	55		
8/23/05 18:00	0.04345	29.9	2.1	0.4	247.5	2.7	0.039	0	0.001	0.001	13.3	28.89	62		
8/23/05 19:00	0.03818	27.7	2.6	0	45	1.8	0.007	0.012	0.019	0.032	13.3	26.11	80		
8/23/05 20:00	0.05063	25.8	1.1	0.9	112.5	4	0.003	0.012	0.023	0.035	16.9	25.00	84		
8/23/05 21:00	0.05137	25.1	0.5	1.8	112.5	4.5	0.001	0.012	0.022	0.034	16.4	24.44	89		
8/23/05 22:00	0.04247	24.8	0.2	3.1	112.5	5.8	0.001	0.011	0.019	0.03	17.6	23.89	91		
8/23/05 23:00	0.04942	24.6	0.4	3.1	112.5	5.8	0	0.014	0.014	0.028	16.3	23.33	92		
8/24/05 0:00	0.03534	24.4	0.3	1.3	90	4.5	0.001	0.006	0.011	0.017	15.3	23.33	93		
8/24/05 1:00	0.05157	24.6	0.5	1.8	112.5	4.9	0	0.005	0.009	0.014	17.7	22.78	93		
8/24/05 2:00	0.05127	24.7	1.2	2.2	90	7.6	0	0.003	0.011	0.014	15.6	22.78	94		
8/24/05 3:00	0.03772	23.6	0.8	3.1	135	8.9	0.01	0	0.011	0.011	16.8	22.78	93		
8/24/05 4:00	0.03546	23.1	0.7	3.6	180	10.3	0.011	0.001	0.01	0.01	14.8	22.78	92		
8/24/05 5:00	0.03565	23.1	0.6	4	180	8.5	0.009	0.003	0.014	0.017	18.7	22.78	91		
8/24/05 6:00	0.03177	22.4	0.5	4	180	8.9	0.008	0.006	0.017	0.022	15.6	23.33	90		
8/24/05 7:00	0.03607	22.9	1.1	5.8	202.5	11.2	0.013	0.004	0.012	0.016	9.3	24.44	85		
8/24/05 8:00	0.02374	23.6	0.7	2.7	202.5	7.6	0.018	0.004	0.007	0.01	19.9	25.00	83		
8/24/05 9:00	0.01912	23.9	1.5	3.6	45	9.4	0.032	0.001	0.004	0.006	17.6	27.22	72		
8/24/05 10:00	0.02684	29.1	6.5	2.2	22.5	7.2	0.039	0.002	0.007	0.009	16.3	28.33	66		
8/24/05 11:00	0.0354	32.1	3.8	2.2	225	6.3	0.053	0.001	0.007	0.007	21.5	30.00	62		
8/24/05 12:00	0.05577	33.2	5.9	2.7	112.5	6.3	0.068	0	0.005	0.005	22.9	31.11	59		
8/24/05 13:00	0.06889	37.8	3.9	1.8	202.5	6.7	0.077	0	0.005	0.005	29.2	32.78	58		
8/24/05 14:00	0.07322	36.1	3.6	3.1	202.5	6.3	0.081	0	0.007	0.007	28.4	32.78	57		
8/24/05 15:00	0.07386	35.1	3.1	3.1	202.5	6.3	0.076	0	0.008	0.008	29.6	33.33	58		
8/24/05 16:00	0.05907	33.4	2	3.1	202.5	6.3	0.064	0	0.007	0.007	25.9	33.33	57		
8/24/05 17:00	0.05704	31.8	0.8	3.6	202.5	6.7	0.06	0	0.006	0.006	26.5	32.78	58		
8/24/05 18:00	0.05894	31.1	1.2	2.7	202.5	7.2	0.048	0	0.011	0.011	29.2	31.67	63		
8/24/05 19:00	0.05944	29.6	1.1	2.2	202.5	6.7	0.031	0.001	0.02	0.021	27.6	30.00	71		
8/24/05 20:00	0.05957	29.1	0.6	3.1	180	8.5	0.037	0.001	0.015	0.016	33.1	29.44	72		
8/24/05 21:00	0.05696	28.5	1.1	4.9	202.5	13	0.051	0	0.005	0.005	19.5	29.44	66		
8/24/05 22:00	0.05457	27.7	1.2	6.3	202.5	12.1	0.049	0	0.004	0.004	25.9	28.89	66		
8/24/05 23:00	0.05257	26.7	0.5	4.9	202.5	12.1	0.045	0	0.004	0.003	25.9	27.78	66		
8/25/05 0:00	0.04953	26.4	1.1	8	202.5	13.9	0.042	0	0.004	0.003	19.7	27.22	68		
8/25/05 1:00	0.04112	25.7	0.6	8	202.5	12.1	0.031	0	0.011	0.01	20.3	26.11	72		
8/25/05 2:00	0.04168	25.3	0.5	8.9	202.5	12.5	0.035	0	0.006	0.005	19.5	26.11	74		
8/25/05 3:00	0.03634	24.8	0.7	9.8	202.5	13	0.032	0	0.007	0.007	20.5	25.56	76		
8/25/05 4:00	0.03849	24.3	0.5	7.2	202.5	12.5	0.028	0	0.009	0.008	21.4	25.00	79		
8/25/05 5:00	0.03736	23.8	0.4	4.9	202.5	9.4	0.013	0.002	0.016	0.018	20.5	23.89	83		
8/25/05 6:00	0.03119	23.4	1.1	2.2	202.5	6.3	0.013	0.013	0.019	0.031	21	23.89	85		
8/25/05 7:00	0.01804	22.9	1	1.8	0	6.7	0.015	0.01	0.016	0.026	20.2	25.56	80		
8/25/05 8:00	0.02106	24.3	1.4	2.2	0	6.3	0.022	0	0.008	0.008	22.5	26.67	77		
8/25/05 9:00	0.02249	27	7	0.9	225	3.6	0.038	0	0.008	0.008	24.4	28.33	71		
8/25/05 10:00	0.03403	32.9	4	0.9	112.5	4.5	0.05	0	0.011	0.011	27.5	30.56	63		
8/25/05 11:00	0.04426	37.9	4.3	1.3	202.5	4.9	0.066	0	0.011	0.011	28.7	32.22	57		
8/25/05 12:00	0.05876	39.8	3.1	2.2	202.5	5.8	0.073	0	0.007	0.006	25.1	33.33	65		
8/25/05 13:00	0.05002	39.4	3.4	2.2	202.5	5.4	0.072	0	0.006	0.006	30.1	32.78	57		
8/25/05 14:00	0.0648	39	3.6	1.8	202.5	5.8	0.068	0	0.005	0.005	26.4	33.33	55		
8/25/05 15:00	0.05816	38.7	4.9	2.2	202.5	6.3	0.066	0	0.005	0.004	25.3	33.89	55		
8/25/05 16:00	0.05207	33.8	3.7	3.1	202.5	7.2	0.06	0	0.004	0.004	24.3	33.89	53		
8/25/05 17:00	0.03608	32.7	1.3	3.6	202.5	7.6	0.051	0	0.005	0.004	22.9	33.89	52		
8/25/05 18:00	0.04049	31.4	1	4	202.5	6.7	0.04	0	0.006	0.005	23	32.22	57		
8/25/05 19:00	0.05488	30.4	1.1	4	202.5	7.2	0.016	0	0.01	0.01	24.5	29.44	68		
8/25/05 20:00	0.06579	29.9	0.3	4	202.5	6.7	0.01	0	0.011	0.011	27.7	27.78	77		
8/25/05 21:00	0.06157	29.9	0.3	5.4	202.5	8	0.001	0.004	0.011	0.015	25.9	26.67	83		
8/25/05 22:00	0.0548	29.9	0.2	6.7	202.5	8	0	0.009	0.01	0.019	27.6	26.11	85		
8/25/05 23:00	0.0529	29.7	0.6	6.3	202.5	8.9	0.004	0.011	0.009	0.019	28.3	26.11	87		
8/26/05 0:00	0.05829	29.6	0.3	7.6	202.5	9.8	0.005	0.006	0.009	0.015	36.9	25.56	87		
8/26/05 1:00	0.05415	29.2	1.2	8.5	202.5	11.2	0.018	0.003	0.007	0.01	29.1	26.11	84		
8/26/05 2:00	0.04925	28.8	1.4	8.5	180	13	0.028	0	0.005	0.005	18	26.67	80		
8/26/05 3:00	0.04562	27.7	1.6	9.4	180	13.4	0.028	0	0.005	0.004	34.4	26.67	78		
8/26/05 4:00	0.04454	26.8	0.3	6.7	180	13	0.03	0	0.005	0.005	42.7	26.67	77		
8/26/05 5:00	0.04733	26	1.3	3.1	157.5	9.8	0.017	0	0.007	0.006	30.1	26.67	80		
8/26/05 6:00	0.03601	25.2	0.4	2.2	315	8	0.022	0	0.008	0.008	31.8	26.67	76		
8/26/05 7:00	0.02669	25.3	0.7	4	315	9.4	0.029	0	0.007	0.007	34	28.33	70		
8/26/05 8:00	0.02272	26	0.9	3.6	315	8.5	0.038	0	0.006	0.005	27.9	30.00	64		
8/26/05 9:00	0.02908	28.2	5.4	2.7	315	8	0.046	0	0.004	0.003	24.4	31.67	58		
8/26/05 10:00	0.03614	34.7	6.4	1.8	0	6.3	0.055	0	0.003	0.002	26.2	32.78	54		
8/26/05 11:00	0.04421						0.056	0	0.003	0.002	25.9	33.89	51		
8/26/05 12:00	0.05245						0.059	0	0.004	0.003	27.1	35.00	48		
8/26/05 13:00	0.05012						0.056	0	0.004	0.003	23.2	35.56	46		
8/26/05 14:00	0.04893						0.056	0	0.004	0.003	25.5	35.56	45		
8/26/05 15:00	0.04911						0.054	0	0.003	0.003	24.6	35.56	46		
8/26/05 16:00	0.05291						0.054	0	0.004	0.004	27	35.56	47		
8/26/05 17:00	0.04925						0.049	0	0.004	0.003	22.8	35.00	50		
8/26/05 18:00	0.05219						0.05	0	0.003	0.003	23.9	32.78	55		
8/26/05 19:00	0.05372						0.027	0	0.007	0.006	22.8	31.11	63		
8/26/05 20:00	0.02732						0.042	0	0.008	0.007	16.4	27.78	61		
8/26/05 21:00	0.04452						0.043	0	0.005	0.005	13.3	26.67	62		
8															

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
8/23/05 6:00	131	2.2352	20	19.6	19.4	96	3.09	120	987.81	19.3	19.4	0.1
8/23/05 7:00	165	1.34112	20.6	20.2	20	96	5.66	150	987.81	19.6	19.6	0
8/23/05 8:00	191	0.89408	22.2	21.1	20.6	91	2.06	150	987.47	20.6	20.3	-0.3
8/23/05 9:00	198	0.44704	22.8	21.7	21.1	90	2.57	190	987.47	22.7	22.4	-0.3
8/23/05 10:00	185	0.89408	23.9	22.4	21.7	88	4.12	170	986.79	25	24.3	-0.7
8/23/05 11:00	200	0.89408	26.7	23.3	21.7	74	1.54	130	986.45	26.9	26.1	-0.7
8/23/05 12:00	193	0.89408	27.8	23.6	21.7	69	2.06		986.12	28.2	27.3	-0.9
8/23/05 13:00	225	0.89408	28.9	23.5	21.1	63	0.00	0	985.44	29	28.2	-0.7
8/23/05 14:00	262	1.34112	30.6	24.4	21.7	59	3.09	280	984.76	23.6	23.9	-0.7
8/23/05 15:00	243	1.34112	30.6	24	21.1	57	2.57	320	984.42	30.1	29.4	-0.7
8/23/05 16:00	270	1.34112	31.1	23.9	20.6	54	2.57		984.42	30.1	29.5	-0.6
8/23/05 17:00	280	0.89408	30	23.5	20.6	57	2.57	340	984.42	30	29.5	-0.4
8/23/05 18:00	244	0.44704	28.3	24.1	22.2	70	0.00	0	984.42	28	28.5	0.5
8/23/05 19:00	180	0	27.2	24.1	22.8	77	1.54	140	984.76	25.1	27.3	2.2
8/23/05 20:00	138	0	26.7	24	22.8	79	2.06	80	985.10	24.4	26.1	1.7
8/23/05 21:00	169	0	25.6	23.7	22.8	85	2.06	120	985.78	24.3	25.5	1.3
8/23/05 22:00	215	0	25	23.1	22.2	85	0.00	0	986.12	24	25.1	1.2
8/23/05 23:00	157	0	24.4	22.9	22.2	88	1.54	120	986.45	23.5	25	1.4
8/24/05 0:00	121	0.44704	25	22.8	21.7	82	2.06	90	985.78	23.5	24.7	1.2
8/24/05 1:00	156	0.44704	24.4	22.9	22.2	88	4.12	140	985.78	23.5	24.7	1.2
8/24/05 2:00	140	0	23.9	22.7	22.2	90	2.57	140	985.78	22.7	23.3	0.5
8/24/05 3:00	137	0.44704	23.3	22.2	21.7	91	2.57	120	985.78	22.5	22.9	0.4
8/24/05 4:00	150	0.89408	22.8	22.1	21.7	94	3.60	140	985.78	22.5	22.8	0.3
8/24/05 5:00	148	0.44704	23.3	22.2	21.7	91	2.06	140	986.79	22	22.2	0.2
8/24/05 6:00	153	0.89408	23.9	22.4	21.7	88	2.57	140	986.79	22	22.1	0.1
8/24/05 7:00	144	2.2352	23.9	22.7	22.2	90	4.63	10	988.49	22.8	23	0.2
8/24/05 8:00	50	3.12928	26.1	23.4	22.2	79	4.63	60	988.49	24.8	24.3	-0.5
8/24/05 9:00	81	2.2352	28.3	23.4	21.1	65	4.12	80	988.49	26.7	25.9	-0.8
8/24/05 10:00	102	2.2352	29.4	23.7	21.1	61	3.60	90	988.15	28.1	27.2	-0.9
8/24/05 11:00	141	2.2352	31.1	25.2	22.8	61	4.63	150	987.47	29.6	28.7	-1
8/24/05 12:00	162	1.78816	31.7	25.4	22.8	59	4.12	160	987.13	30.7	29.7	-1
8/24/05 13:00	188	1.78816	32.8	25.7	22.8	56	4.63	180	986.45	31.5	30.6	-0.9
8/24/05 14:00	189	1.34112	32.8	26	23.3	57	4.12	160	986.12	32.4	31.6	-0.9
8/24/05 15:00	174	1.78816	33.3	26.5	23.9	58	4.63	140	985.78	32.5	31.8	-0.7
8/24/05 16:00	175	1.78816	33.3	26.1	23.3	56	3.60	160	985.78	32.5	32.1	-0.5
8/24/05 17:00	174	1.78816	32.8	26.4	23.9	59	2.57	140	986.12	31.7	31.7	0
8/24/05 18:00	174	1.34112	30	26	24.4	72	3.09	130	986.45	29.5	30.2	0.7
8/24/05 19:00	160	0.89408	29.4	25.8	24.4	75	3.09	130	986.79	28.9	29.7	0.8
8/24/05 20:00	169	1.78816	30	25.2	23.3	67	4.63	150	987.81	28.5	29.1	0.6
8/24/05 21:00	182	1.78816	29.4	24.8	22.8	68	5.14	160	988.15	28.3	28.8	0.5
8/24/05 22:00	177	1.78816	28.3	23.7	21.7	67	5.14	160	988.15	27.9	28.3	0.5
8/24/05 23:00	191	1.34112	27.8	22.9	20.6	65	5.14	180	987.81	27	27.5	0.5
8/25/05 0:00	198	1.34112	27.2	22.7	20.6	67	3.60	180	988.15	26.5	27	0.5
8/25/05 1:00	205	1.34112	26.7	22.6	20.6	69	4.12	170	988.15	26	26.4	0.4
8/25/05 2:00	196	1.34112	25.6	22.6	21.1	76	4.12	180	987.81	25.2	25.7	0.4
8/25/05 3:00	165	1.34112	24.4	22.2	21.1	82	0.00	0	988.49	24.5	24.9	0.5
8/25/05 4:00	150	0.89408	23.9	22	21.1	84	2.57	140	988.83	23.1	23.8	0.7
8/25/05 5:00	38	0.89408	24.4	22.2	21.1	82	3.09	20	990.18	22.8	23.4	0.5
8/25/05 6:00	54	0.89408	25	22.8	21.7	82	2.57	70	991.20	22.6	22.7	0.1
8/25/05 7:00	52	1.78816	26.7	23.6	22.2	76	3.09	50	991.53	23.9	23.6	-0.3
8/25/05 8:00	55	1.78816	27.8	24.3	22.8	74	3.09	100	991.20	25.9	25.1	-0.8
8/25/05 9:00	78	1.78816	29.4	24.8	22.8	68	3.09	110	990.86	27.8	26.8	-1
8/25/05 10:00	146	1.34112	31.1	25.5	23.3	63	4.12	140	990.86	29.1	28	-1.1
8/25/05 11:00	194	0.89408	32.8	26	23.3	57	3.09	190	990.18	30.5	29.3	-1.2
8/25/05 12:00	223	0.89408	33.3	26.1	23.3	56	2.57	230	989.84	31.6	30.5	-1.1
8/25/05 13:00	171	1.34112	33.3	26.1	23.3	56	2.06	160	989.16	32.1	31.1	-1
8/25/05 14:00	193	1.34112	33.9	25.9	22.8	52	3.09	190	988.49	32.5	31.7	-0.8
8/25/05 15:00	175	1.34112	33.9	25.9	22.8	52	4.12	180	987.81	33.1	32.4	-0.7
8/25/05 16:00	178	1.34112	33.9	25.9	22.8	52	3.60	170	987.47	33	32.4	-0.5
8/25/05 17:00	200	0.89408	33.3	25.1	21.7	51	4.12	200	987.47	32.4	32.1	-0.2
8/25/05 18:00	173	0.89408	32.2	25.1	22.2	56	2.57	180	987.47	30.5	31	0.5
8/25/05 19:00	159	0.44704	29.4	25.1	23.3	70	2.57	140	987.81	29.1	30.1	1.1
8/25/05 20:00	200	0	29.4	25.5	23.9	72	2.57	150	988.15	28.8	29.7	0.9
8/25/05 21:00	149	0	29.4	25.5	23.9	72	2.57	150	988.15	28	28.9	1
8/25/05 22:00	239	0	29.4	25.1	23.3	70	2.57	170	987.81	27.6	28.5	0.9
8/25/05 23:00	250	0	29.4	24.8	22.8	68	3.09	180	987.47	27.4	28.2	0.9
8/26/05 0:00	128	0	28.9	24.9	23.3	72	3.09	170	987.47	27.1	28	0.9
8/26/05 1:00	192	0.44704	28.3	24.5	22.8	72	3.60	180	987.13	27	27.7	0.7
8/26/05 2:00	205	0.89408	27.8	24.3	22.8	74	5.14	180	986.79	26.5	27.1	0.6
8/26/05 3:00	212	0.89408	27.8	24.3	22.8	74	4.12	190	986.45	25.9	26.4	0.5
8/26/05 4:00	215	0.89408	27.2	23.7	22.2	74	4.63	200	986.79	25.9	26.5	0.6
8/26/05 5:00	225	0.44704	26.7	23.6	22.2	76	3.60	210	987.13	25.8	26.2	0.7
8/26/05 6:00	216	0.89408	27.2	23.7	22.2	74	4.12	200	987.47	26	26.3	0.3
8/26/05 7:00	217	0.89408	28.9	23.9	21.7	65	4.12	220	988.15	27.8	27.5	-0.4
8/26/05 8:00	237	0.89408	30.6	24.4	21.7	59	3.09		988.15	29.5	28.8	-0.7
8/26/05 9:00	263	1.34112	32.2	25.1	22.2	56	3.60	290	987.81	30.7	29.7	-1
8/26/05 10:00	207	0.89408	32.8	25	21.7	52	2.57	190	987.13	31.4	30.3	-1.1
8/26/05 11:00	223	1.34112	34.4	25	21.1	46	4.12	220	986.45	32.5	31.4	-1
8/26/05 12:00	219	1.34112	34.4	25	21.1	46	5.14	190	985.78	33.4	32.4	-1
8/26/05 13:00	209	1.34112	35	25.5	21.7	46	4.63	200	984.76	34	33.1	-0.9
8/26/05 14:00	223	1.34112	35.6	25.3	21.1	43	4.12	220	984.08	34.1	33.3	-0.8
8/26/05 15:00	216	1.34112	35	25.2	21.1	44	4.63	200	983.41	33.9	33.4	-0.6
8/26/05 16:00	219	0.89408	35	25.5	21.7	46	4.63	200	982.73	33.5	33.1	-0.4
8/26/05 17:00	207	0.89408	33.9	25.9	22.8	52	4.63	200	982.39	32.7	32.5	-0.1
8/26/05 18:00	211	0.89408	32.8	25.6	22.8	56	3.09	190	983.07	30.8	31.4	0.6
8/26/05 19:00	147	0.44704	31.7	25.7	23.3	61	2.06	110	983.75	28.1	28.7	0.6
8/26/05 20:00	60	4.02336	26.1	21.7	19.4	67	6.17	70	985.78	24.4	24.5	0.1
8/26/05 21:00	90	1.78816	27.2	20.4	16.7	53	5.66	80	985.10	25	25.3	0.3
8/26/05 22:00	86	3.57632	22.2	20.4	19.4	84	6.17	50	986.45	22.9	23.6	0.7
8/26/05 23:00	177	1.78816	21.7	20.6	20	90	5.66	130	985.10	23.6	24.1	0.5
8/27/05 0:00	202	1.34112	22.8	21	20	84	5.66	190	984.08	22.1	22.5	0.5
8/27/05 1:00	193	0.89408	23.3	21.1	20	82	2.06		983.75	22.2	22.5	0.3
8/27/05 2:00	176	1.34112	23.3	20.8	19.4	79	4.12	170	983.75	22.1	23	0.9
8/27/05 3:00	192	0.89408	22.8	20.6	19.4	81	2.06	60				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{A65} (hPa)
8/23/05 6:00	96	1.1	2	0.9	5.9	0.5	157.4	12.9	0.9	0	0.2	980.49
8/23/05 7:00	96	2.3	3.2	1	6.7	0.7	149.2	12.7	26.8	0.1	0.02	980
8/23/05 8:00	96.1	2.2	3.1	0.9	5.2	0.6	166	10.4	229.7	0.83	0	980.61
8/23/05 9:00	93.3	1.9	2.6	0.7	4.6	0.6	157.7	15	431.7	1.55	0	980.46
8/23/05 10:00	83.9	2	2.7	0.7	5.4	0.6	161.1	15.4	651.7	2.35	0	980.2
8/23/05 11:00	74.6	1.4	1.9	0.5	5.2	0.6	172.4	28.3	724.7	2.61	0	979.96
8/23/05 12:00	67.4	1.3	1.7	0.4	3.8	0.6	183.4	24	745.5	2.68	0	979.63
8/23/05 13:00	64.5	1.3	1.7	0.4	3.6	0.6	186	22.8	750.3	2.7	0	979.17
8/23/05 14:00	61.7	1.3	1.9	0.6	5.1	0.7	208.1	20.1	595.2	2.14	0	978.4
8/23/05 15:00	58.9	1.5	2	0.5	4	0.6	216.2	18	605.4	2.18	0	978.01
8/23/05 16:00	58.1	1.4	2	0.6	4.1	0.6	199	16.7	430	1.55	0	977.91
8/23/05 17:00	58	0.4	1	0.6	2.7	0.3	145.8	13.6	250.5	0.9	0	977.83
8/23/05 18:00	68.3	0	0.8	0.7	1.4	0.1	143.7	5.5	30.3	0.11	0	977.87
8/23/05 19:00	80.3	0	0.7	0.7	1.3	0.1	159.8	4	0	0	0	978.14
8/23/05 20:00	82.8	0.1	0.8	0.7	3	0.2	117.5	5.9	-0.8	0	0	978.42
8/23/05 21:00	87.5	0.3	1.7	1.4	2.8	0.2	111.6	6.9	-0.2	0	0	978.85
8/23/05 22:00	88.3	0.2	1.3	1.2	2.4	0.1	114.8	5.6	0	0	0	979.32
8/23/05 23:00	90	0.2	1.5	1.3	2.9	0.2	125.2	6.4	-0.2	0	0	979.75
8/24/05 0:00	87.3	0.2	1.3	1.1	2.4	0.2	118.3	7.2	-0.1	0	0	979.54
8/24/05 1:00	86.9	0.4	1.7	1.3	3.1	0.3	128.8	8.3	0	0	0	978.99
8/24/05 2:00	91.4	0.9	2	1	3.5	0.3	91.3	9.4	-0.1	0	0	978.99
8/24/05 3:00	93.8	1.2	2.2	1	4.2	0.4	132.4	11	0	0	0	979.02
8/24/05 4:00	93.4	1.1	2	0.9	4.1	0.4	134.1	11.8	0	0	0	978.94
8/24/05 5:00	94.8	0.8	1.8	1	3.5	0.3	90.8	11.3	1.7	0.01	0	979.41
8/24/05 6:00	95.8	1	1.9	0.9	7.3	0.5	114.5	14	33.6	0.12	0	980.33
8/24/05 7:00	92.3	2.6	3.7	1.1	8.4	0.9	230.5	14	93.1	0.34	0	982.03
8/24/05 8:00	79.9	3	3.9	1	6.9	1	41.9	15.2	463.8	1.67	0	981.44
8/24/05 9:00	72.3	2.4	3.3	0.9	6.6	0.8	75.7	16	604.1	2.17	0	981.48
8/24/05 10:00	66.1	2.4	3.3	1	5.9	0.8	94.1	16	716.2	2.58	0	981.29
8/24/05 11:00	63.8	2.6	3.6	0.9	6.4	0.9	134.8	16.3	832	3	0	980.95
8/24/05 12:00	60.5	2.4	3.1	0.7	5.7	0.8	158.6	17.1	856.7	3.08	0	980.63
8/24/05 13:00	60.3	2.2	2.9	0.7	5.8	0.9	157.2	16.8	825.1	2.97	0	980.16
8/24/05 14:00	59.4	2	2.8	0.7	5.7	0.7	160.5	17.1	746.4	2.69	0	979.43
8/24/05 15:00	59.3	2.2	3.1	0.9	5.8	0.7	184	14.2	615.9	2.22	0	979.18
8/24/05 16:00	60.8	2	2.8	0.8	5.4	0.6	166.2	15.5	418.3	1.51	0	978.99
8/24/05 17:00	62.6	1.7	2.3	0.7	4.6	0.6	159.4	14.1	187.8	0.68	0	979.24
8/24/05 18:00	71.3	0.7	1.7	1	3.4	0.3	155.5	9.8	12.6	0.05	0	979.73
8/24/05 19:00	75.3	1.2	2.2	1.1	3.6	0.3	146.8	8.8	-0.4	0	0	980.26
8/24/05 20:00	76.8	2	3	1	6.5	0.6	148.8	10	-0.9	0	0	980.68
8/24/05 21:00	75.6	1.9	2.7	0.8	6.4	0.7	165.2	14.9	-1	0	0	981.2
8/24/05 22:00	71.9	2.2	3.1	0.9	7.1	0.7	155.3	13	-1	0	0	981.53
8/24/05 23:00	71.6	2	2.8	0.8	6.7	0.7	168.5	13.7	-1	0	0	980.96
8/25/05 0:00	70.8	2.4	3.5	1.1	7.4	0.7	189.7	10.2	-0.9	0	0	981.34
8/25/05 1:00	72.8	2.4	3.4	1	6.6	0.7	154	10.6	-0.8	0	0	981.06
8/25/05 2:00	76.1	1.7	2.4	0.7	5.1	0.6	165.4	12.9	-1	0	0	981.23
8/25/05 3:00	79.5	1.2	2.1	0.9	6.1	0.6	136.8	13.3	-1	0	0	981.53
8/25/05 4:00	87.2	1.1	2	0.9	3.5	0.3	42	8.9	-1	0	0	982.06
8/25/05 5:00	89.4	1.5	2.3	0.8	3.7	0.4	39	8.2	0.3	0	0	983.14
8/25/05 6:00	91.7	2.3	3.1	0.8	5.2	0.6	43.3	10	47.4	0.17	0	984.28
8/25/05 7:00	83.4	2.3	3.1	0.8	5.3	0.7	56.5	13.5	231.5	0.83	0	984.66
8/25/05 8:00	75.6	2.2	3.1	0.9	5.8	0.8	80.1	13.1	440.8	1.59	0	984.47
8/25/05 9:00	70	2.4	3.4	1	5.7	0.8	99.8	13.7	624.3	2.25	0	984.16
8/25/05 10:00	67.8	2.1	3	0.9	5.1	0.8	100.3	15.2	757.1	2.73	0	984.23
8/25/05 11:00	65.2	1.7	2.3	0.6	4.7	0.7	125.8	21.3	850.4	3.06	0	983.86
8/25/05 12:00	62.1	1.6	2.3	0.7	4.9	0.7	125.5	23.1	978.2	3.16	0	983.49
8/25/05 13:00	61.3	1.7	2.5	0.7	5.3	0.8	124.7	18.8	735.3	2.65	0	982.97
8/25/05 14:00	60.3	1.8	2.5	0.7	5.2	0.7	143	17.9	665.8	2.4	0	982.09
8/25/05 15:00	56.2	1.9	2.7	0.8	5.4	0.7	187.9	16.7	594.9	2.14	0	981.5
8/25/05 16:00	56.8	1.4	2	0.7	4.4	0.6	114.9	17.2	412.8	1.49	0	981.01
8/25/05 17:00	59.9	1	1.7	0.7	3.3	0.4	164.7	13.6	218.8	0.79	0	980.84
8/25/05 18:00	67.1	0.4	1.4	1	2.5	0.3	168.7	9.8	28.8	0.1	0	980.91
8/25/05 19:00	70	1.1	2.2	1.1	3.7	0.4	149.8	9	-0.1	0	0	980.96
8/25/05 20:00	69.1	1.6	2.7	1.1	4.5	0.5	151.7	9.5	-1	0	0	981.27
8/25/05 21:00	72.9	1.2	2.3	1	4	0.4	151.1	10.1	-0.9	0	0	981.37
8/25/05 22:00	74.3	0.8	1.8	1	3.1	0.4	169.4	11.7	-1	0	0	981.19
8/25/05 23:00	76	0.9	1.9	1	4	0.4	163.8	11.1	-1	0	0	980.92
8/26/05 0:00	76.3	0.8	1.8	1	3.7	0.3	143.7	10.2	-1	0	0	980.79
8/26/05 1:00	76.8	1.5	2.5	1.1	4	0.4	179.3	9.6	-0.9	0	0	980.49
8/26/05 2:00	79.2	1.8	2.8	1	4.7	0.5	153.4	9.4	-1	0	0	980.07
8/26/05 3:00	80.9	2	3.2	1.2	5.5	0.5	167.5	9.3	-0.8	0	0	979.75
8/26/05 4:00	77.9	2.5	3.9	1.3	7.3	0.7	187.1	8.7	-0.8	0	0	979.68
8/26/05 5:00	79.5	2.2	3.3	1.2	6.7	0.5	194.1	7.6	0.01	0	0	980.08
8/26/05 6:00	77.9	2.2	3.3	1.1	5.7	0.5	195.4	8.2	74.6	0.27	0	980.54
8/26/05 7:00	72.2	2	2.8	0.8	4.8	0.5	207	10.1	250.8	0.9	0	981.08
8/26/05 8:00	66.5	1.4	2	0.5	4.2	0.6	243.2	17	433.8	1.56	0	981.56
8/26/05 9:00	61.4	1	1.5	0.5	3.9	0.5	214.7	24.7	615.6	2.22	0	981.23
8/26/05 10:00	60.1	1.9	2.6	0.7	5.8	0.6	179.8	14.5	754.9	2.72	0	980.79
8/26/05 11:00	58.4	2	2.7	0.8	6.1	0.7	176.7	16.8	834.8	3.01	0	980.06
8/26/05 12:00	54.8	2.4	3.2	0.9	6.6	0.8	166.5	14.4	859.3	3.09	0	979.36
8/26/05 13:00	52	2.6	3.5	0.9	6.4	0.8	165.2	15.4	822.9	2.96	0	978.63
8/26/05 14:00	50.9	2.8	3.8	1	6.6	0.8	164.6	13.2	730.8	2.63	0	977.77
8/26/05 15:00	51	2.7	3.9	1.2	6.3	0.7	170.4	11.5	591.3	2.13	0	977.12
8/26/05 16:00	53.6	2.5	3.6	1.1	6.1	0.7	173.1	11.4	410.6	1.48	0	976.66
8/26/05 17:00	58.9	1.5	2.5	1	4.5	0.5	167.9	10.8	217.4	0.78	0	976.17
8/26/05 18:00	66.7	0.6	1.7	1.1	3.1	0.3	143.7	8.8	25.9	0.09	0	976.32
8/26/05 19:00	65.6	2.2	3.4	1.3	9.9	0.9	100.2	13.8	0.1	0	0	977.28
8/26/05 20:00	69.7	3	4.2	1.2	10.2	0.9	60	13.5	-1	0	0	978.49
8/26/05 21:00	63.3	3	4.4	1.3	13.9	1	72.8	13	-0.8	0	0	978.84
8/26/05 22:00	66.6	3.9	5.4	1.5	17.3	1.3	126	16	-0.7	0	0	978.07
8/26/05 23:00	66	2.3	3.5	1.2	7.4	0.7	197.3	11.9	0	0	0	977.86
8/27/05 0:00	83.1	2.7	3.8	1.1	8.3	0.9	191.7	22.2	0	0	0.13	977.55
8/27/05 1:00	86.4	1.5	2.4	0.9	5.9	0.6	113.8	22.1	0	0	0	977.34
8/27/05 2:00	82.2	0.7	1.6	0.8	3.6	0.5	168.8	22.4	0	0	0	977
8/27/05 3:00	87.4	0.5	1.2	0.7	3	0.5	79.8	14.5	0	0	0	977.17
8/27/05 4:00	89.7	0.8	1.8	1	3.4	0.3	120.8	10.3	0	0	0	977.67
8/27/05 5:00	86.8	0.8	1.7	1	3.7	0.4	299.8	13.4	0.8	0	0	978.23
8/27/05 6:00	89	0.4	1.1	0.7	2.4	0.3	279.9	15.2	51	0.18	0	979.39
8/27/05 7:00	83.1	0.7	1.3	0.6	2.5	0.3	244	15.6	260.3	0.94	0	979.47
8/27/05 8:00	68.9	0.7	1.2	0.5	2.4	0.4	180.6	17.4	443.5	1.6	0	979.42
8/27/05 9:00	61.7	1.1										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK		1127										
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)
8/27/05 21:00	0.03746						0.006	0.003	0.007	0.01	13.4	25.56	90
8/27/05 22:00	0.04101						0.001	0.005	0.006	0.011	1.8	24.44	92
8/27/05 23:00	0.03966						0.002	0.008	0.005	0.012	16.4	23.89	93
8/28/05 0:00	0.04577						0.001	0.008	0.004	0.012	17.3	23.89	93
8/28/05 1:00	0.04673						0	0.009	0.003	0.012	15	23.33	94
8/28/05 2:00	0.04363						0	0.008	0.003	0.011	23.1	23.33	94
8/28/05 3:00	0.05059						0.001	0.008	0.003	0.011	15.7	23.33	94
8/28/05 4:00	0.02537						0.001	0.005	0.002	0.007	16.2	22.78	94
8/28/05 5:00	0.0349						0.002	0.005	0.002	0.007	17.4	22.22	94
8/28/05 6:00	0.03256						0.015	0.003	0.003	0.006	16.2	22.22	95
8/28/05 7:00	0.02348						0.025	0	0.004	0.004	18.9	25.00	88
8/28/05 8:00	0.02375						0.037	0	0.003	0.003	21.4	27.22	77
8/28/05 9:00	0.03306						0.039	0	0.004	0.004	22.4	27.78	72
8/28/05 10:00	0.04839						0.049	0	0.004	0.004	23.3	29.44	67
8/28/05 11:00	0.05945						0.063	0	0.005	0.004	29	30.56	64
8/28/05 12:00	0.07101						0.069	0	0.004	0.003	28.8	31.11	61
8/28/05 13:00	0.06519						0.064	0	0.003	0.003	21.2	31.67	58
8/28/05 14:00	0.05829						0.057	0	0.002	0.002	24.8	31.67	54
8/28/05 15:00	0.0584						0.073	0	0.003	0.002	29.1	32.22	55
8/28/05 16:00	0.05872						0.076	0	0.004	0.003	29	32.78	52
8/28/05 17:00	0.06803						0.062	0	0.006	0.005	26.9	31.67	54
8/28/05 18:00	0.05647						0.04	0	0.007	0.006	22.7	30.56	56
8/28/05 19:00	0.05266						0.024	0	0.007	0.007	20.5	27.78	66
8/28/05 20:00	0.05311						0.008	0.001	0.008	0.009	26.9	25.00	79
8/28/05 21:00	0.0511						0.015	0.002	0.009	0.01	25	24.44	78
8/28/05 22:00	0.0511						0.025	0.001	0.007	0.008	17.9	24.44	75
8/28/05 23:00	0.04717						0.036	0	0.004	0.003	18.8	25.00	71
8/29/05 0:00	0.03972						0.038	0	0.002	0.001	14.2	23.89	71
8/29/05 1:00	0.041						0.037	0	0.002	0.001	11.7	23.33	72
8/29/05 2:00	0.03951						0.03	0	0.002	0.001	15.6	22.78	76
8/29/05 3:00	0.03429						0.023	0	0.002	0.002	18.1	21.67	82
8/29/05 4:00	0.02934						0.022	0	0.003	0.002	16.2	21.67	80
8/29/05 5:00	0.02064						0.017	0	0.003	0.003	18.5	21.11	83
8/29/05 6:00	0.01645						0.013	0	0.004	0.004	17.6	21.11	84
8/29/05 7:00	0.01296						0.012	0.004	0.006	0.01	17.1	22.78	79
8/29/05 8:00	0.01478						0.02	0.008	0.008	0.016	17.3	24.44	74
8/29/05 9:00	0.02022						0.033	0.001	0.009	0.01	19.2	26.67	69
8/29/05 10:00	0.0301						0.044	0	0.007	0.006	22.7	28.33	64
8/29/05 11:00	0.04302						0.049	0	0.007	0.007	23.2	30.11	58
8/29/05 12:00	0.05077						0.048	0	0.006	0.006	21.8	31.11	49
8/29/05 13:00	0.05467						0.044	0	0.006	0.005	19.1	31.67	43
8/29/05 14:00	0.05136						0.05	0	0.007	0.006	19.6	32.22	38
8/29/05 15:00	0.05274						0.051	0	0.007	0.007	20.1	32.78	36
8/29/05 16:00	0.05347						0.048	0	0.007	0.006	17.2	32.22	37
8/29/05 17:00	0.04849						0.049	0	0.005	0.005	15.6	31.67	42
8/29/05 18:00	0.04781						0.049	0	0.004	0.003	15.8	29.44	51
8/29/05 19:00	0.05174						0.046	0	0.003	0.003	17.9	27.78	55
8/29/05 20:00	0.0515						0.042	0	0.004	0.003	16.4	26.67	59
8/29/05 21:00	0.04987						0.038	0	0.004	0.004	18	25.00	64
8/29/05 22:00	0.04943						0.033	0	0.004	0.004	17	23.89	68
8/29/05 23:00	0.05091						0.038	0	0.004	0.003	14.6	23.89	69
8/30/05 0:00	0.05172						0.042	0	0.003	0.002	13.6	23.89	68
8/30/05 1:00	0.05148						0.028	0	0.003	0.002	15.5	21.67	78
8/30/05 2:00	0.04749						0.021	0	0.004	0.003	14.2	20.56	86
8/30/05 3:00	0.04314						0.02	0	0.003	0.003	15.4	20.56	85
8/30/05 4:00	0.03682						0.026	0	0.003	0.002	17	21.11	79
8/30/05 5:00	0.03609						0.012	0	0.004	0.004	17.8	20.00	87
8/30/05 6:00	0.03601						0.009	0.007	0.007	0.014	18.7	20.00	85
8/30/05 7:00	0.03432						0.025	0.003	0.008	0.011	17.6	22.78	72
8/30/05 8:00	0.03724						0.034	0	0.007	0.007	17	25.00	64
8/30/05 9:00	0.02916						0.041	0.002	0.006	0.008	18.9	26.67	60
8/30/05 10:00	0.03441						0.05	0.001	0.006	0.008	22.3	28.33	53
8/30/05 11:00	0.04747						0.054	0.001	0.007	0.008	19.4	29.44	48
8/30/05 12:00	0.05453						0.058	0.001	0.006	0.007	19.6	30.00	42
8/30/05 13:00	0.05763						0.065	0	0.004	0.004	19	31.11	36
8/30/05 14:00	0.06169						0.06	0	0.003	0.003	17.3	31.11	34
8/30/05 15:00	0.05992						0.057	0	0.002	0.001	13.8	31.67	32
8/30/05 16:00	0.06078						0.056	0	0.002	0.002	12	31.67	33
8/30/05 17:00	0.05544						0.052	0	0.002	0.001	12.9	31.67	34
8/30/05 18:00	0.05241						0.026	0.004	0.019	0.023	17.4	28.33	52
8/30/05 19:00	0.05088						0.005	0.009	0.029	0.038	20.2	23.89	73
8/30/05 20:00	0.05215						0	0.013	0.028	0.041	21.3	22.22	29
8/30/05 21:00	0.04667						0	0.019	0.026	0.045	20.6	21.11	85
8/30/05 22:00	0.07729						0	0.026	0.021	0.047	21.6	20.56	89
8/30/05 23:00	0.06146						0	0.02	0.019	0.039	20	19.44	90
8/31/05 0:00	0.06145						0	0.014	0.015	0.03	20.4	18.89	92
8/31/05 1:00	0.04453						0	0.018	0.013	0.032	21.4	18.33	93
8/31/05 2:00	0.07238						0	0.021	0.008	0.03	20.4	17.78	93
8/31/05 3:00	0.06416						0	0.012	0.013	0.026	22.3	17.78	93
8/31/05 4:00	0.05661						0	0.017	0.012	0.029	22.8	17.22	94
8/31/05 5:00	0.06146						0	0.041	0.007	0.048	23.5	16.67	94
8/31/05 6:00	0.0516						0	0.066	0.009	0.074	24.2	17.22	94
8/31/05 7:00	0.05369						0	0.079	0.019	0.098	30.5	21.11	82
8/31/05 8:00	0.04307						0	0.025	0.027	0.052	27.8	25.00	68
8/31/05 9:00	0.01756						0.019				30.7	28.33	58
8/31/05 10:00	0.03411						0.037				22.7	30.00	45
8/31/05 11:00	0.0538						0.048				16.5	31.11	36
8/31/05 12:00	0.06258						0.06	0.002	0.01	0.013	18	31.67	31
8/31/05 13:00	0.06278						0.066	0.001	0.005	0.006	17.4	32.22	29
8/31/05 14:00	0.06634						0.072	0.001	0.007	0.009	18.2	32.78	29
8/31/05 15:00	0.06601						0.073	0.001	0.007	0.009	23.4	32.78	30
8/31/05 16:00	0.06994						0.075	0.001	0.009	0.01	24.9	32.78	30
8/31/05 17:00	0.06813						0.066	0.001	0.012	0.013	26.1	32.22	34
8/31/05 18:00	0.0719						0.031	0.005	0.022	0.028	19.4	30.00	44
8/31/05 19:00	0.0472						0.003	0.017	0.039	0.055	20.6	25.00	66
8/31/05 20:00	0.03669						0	0.024	0.029	0.054	21.4	22.78	78
8/31/05 21:00	0.04279						0	0.022	0.025	0.047	22.1	21.67	84
8/31/05 22:00	0.05622						0	0.024	0.019	0.043	20	20.56	88
8/31/05 23:00	0.05936						0	0.012	0.018	0.03	19	20.00	91
9/1/05 0:00	0.06037						0	0.011	0.018	0.029	20	20.00	89
9/1/05 1:00	0.05334						0.006	0.001	0.012	0.013	20.9	20.56	84
9/1/05 2:00	0.05699						0.005	0.001	0.009	0.01	18.7	18.89	90
9/1/05 3:00	0.05261						0.001	0.003	0.007				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
8/27/05 21:00	208	0	26.1	24.9	24.4	90	1.54	340	984.42	24.1	26.7	2.5
8/27/05 22:00	191	0	26.1	24.6	23.9	88	0.00	0	984.76	24.9	26.4	1.4
8/27/05 23:00	197	0	25.6	24.4	23.9	90	0.00	0	984.76	25	26.1	1.2
8/28/05 0:00	254	0.44704	25	23.8	23.3	90	1.54	280	984.08	24.1	26.5	2.4
8/28/05 1:00	170	0.44704	25	23.8	23.3	90	0.00	0	983.41	23.8	25.3	1.6
8/28/05 2:00	219	0.44704	24.4	23.6	23.4	94	0.00	0	983.75	22.6	24.6	2.1
8/28/05 3:00	152	0.44704	23.9	23.1	22.8	94	2.06	350	983.75	22.5	24.5	1.9
8/28/05 4:00	191	0	23.3	22.6	22.2	94	1.54	320	983.75	22	23.8	1.8
8/28/05 5:00	141	0	22.8	22.1	21.7	94	0.00	0	984.08	21.9	23.5	1.6
8/28/05 6:00	190	0.44704	24.4	23.3	22.8	91	1.54	270	984.42	22.7	23.6	0.9
8/28/05 7:00	208	0.89408	25.6	23.7	22.8	85	0.00	0	985.10	24.9	24.5	-0.3
8/28/05 8:00	94	0.89408	26.7	24.3	23.3	82	0.00	0	985.44	26.2	25.4	-0.8
8/28/05 9:00	96	1.78816	28.9	25.3	23.9	74	1.54	70	985.44	27.7	26.6	-1
8/28/05 10:00	57	2.2352	30.6	25.8	23.9	67	3.60	20	985.10	28.8	27.7	-1
8/28/05 11:00	70	2.2352	31.7	25.7	23.3	61	4.12	130	984.42	29.9	29.1	-0.9
8/28/05 12:00	105	1.78816	31.7	25.7	23.3	61	4.12	130	984.08	30.5	29.7	-0.8
8/28/05 13:00	131	1.78816	31.7	25.4	22.8	59	3.60	120	983.75	31.4	30.5	-0.9
8/28/05 14:00	122	1.78816	32.8	25.6	22.8	56	1.54	90	983.07	31.6	30.9	-0.8
8/28/05 15:00	57	2.2352	32.8	25.3	22.2	54	3.09	90	982.39	31.6	31	-0.7
8/28/05 16:00	65	2.2352	32.8	24.6	21.1	50	4.12	60	982.39	31.6	31.1	-0.5
8/28/05 17:00	71	1.34112	31.7	23.3	19.4	48	3.09	60	982.05	30.1	30.1	-0.1
8/28/05 18:00	69	0.89408	30	22.2	18.3	50	3.09	50	982.73	26.7	26.6	1.9
8/28/05 19:00	209	0.44704	26.1	22	20	69	3.09	360	983.75	25.4	27.7	2.4
8/28/05 20:00	217	0	25.6	22.6	21.1	76	2.06	350	984.08	25.5	27.2	1.7
8/28/05 21:00	227	0.44704	24.4	21.9	20.6	79	2.57	350	984.08	24.9	25.8	0.9
8/28/05 22:00	170	0.89408	24.4	21.9	20.6	79	4.63	320	984.76	23.6	24	0.4
8/28/05 23:00	247	1.78816	23.9	21	19.4	76	3.60	330	984.76	23	23.3	0.4
8/29/05 0:00	247	1.78816	22.8	20.3	18.9	79	3.60	330	984.42	22.7	23.1	0.4
8/29/05 1:00	157	1.78816	22.2	20.1	18.9	82	3.60	20	984.08	22.4	23	0.6
8/29/05 2:00	67	0.89408	21.1	19.7	18.9	87	2.57	340	984.08	22.2	22.9	0.7
8/29/05 3:00	127	0.44704	21.1	19.7	18.9	87	5.14	340	983.75	21.7	22.4	0.6
8/29/05 4:00	78	1.34112	20.6	19.1	18.3	87	3.60	340	983.75	21.3	21.8	0.5
8/29/05 5:00	98	0.89408	20.6	19.1	18.3	87	3.09	340	984.08	21	21.4	0.4
8/29/05 6:00	67	1.78816	21.7	19.9	18.9	84	3.09	350	984.42	21.1	21.2	0.1
8/29/05 7:00	43	1.78816	23.9	21	19.4	76	3.09	30	984.76	22.8	22.2	-0.6
8/29/05 8:00	56	1.78816	26.7	22.6	20.6	69	2.06	50	985.10	24.4	23.5	-0.9
8/29/05 9:00	66	1.78816	28.9	23.5	21.1	63	3.09	30	985.10	26.6	25.5	-1.1
8/29/05 10:00	49	2.66224	30.6	24	21.1	57	4.63	20	984.08	28.1	26.9	-1.2
8/29/05 11:00	53	3.12928	31.1	23.1	19.4	50	5.66	30	983.41	23.6	26.5	-1.1
8/29/05 12:00	47	4.02336	32.2	23.2	18.9	45	4.63	30	982.39	30.5	29.6	-0.9
8/29/05 13:00	45	4.4704	32.8	23	18.3	42	6.17	40	982.05	31	30.1	-0.9
8/29/05 14:00	50	4.02336	33.3	22.3	16.7	37	5.14	50	981.04	31.2	30.4	-0.8
8/29/05 15:00	45	4.02336	32.8	21.8	16.1	37	5.66	10	980.70	31.1	30.4	-0.7
8/29/05 16:00	42	3.57632	32.2	22	16.7	39	5.14	360	980.70	30.6	30.2	-0.5
8/29/05 17:00	65	3.12928	30	22.5	18.9	51	5.14	360	980.70	29.4	29.3	-0.1
8/29/05 18:00	107	2.2352	27.2	22	19.4	62	4.63	360	980.36	26.9	27.7	0.7
8/29/05 19:00	97	2.2352	26.1	21	18.3	62	4.12	360	980.70	25.4	26.3	0.9
8/29/05 20:00	88	1.78816	24.4	20.4	18.3	69	4.12	360	981.38	25.1	25.9	0.8
8/29/05 21:00	57	1.78816	23.3	20.1	18.3	74	4.12	360	981.38	24.6	25.3	0.7
8/29/05 22:00	52	0.89408	22.8	19.6	17.8	74	3.09	360	981.38	23.8	24.5	0.8
8/29/05 23:00	79	1.34112	21.7	19.5	18.3	81	2.57	330	981.04	22.9	23.6	0.8
8/30/05 0:00	106	1.34112	21.7	19.5	18.3	81	2.06	320	981.04	21.9	22.6	0.8
8/30/05 1:00	199	0.44704	21.1	19	17.8	82	2.57	320	981.04	21.4	22.1	0.7
8/30/05 2:00	241	0	20.6	19.1	18.3	87	2.57	330	981.38	21.5	22.1	0.6
8/30/05 3:00	149	0.44704	20.6	18.8	17.8	89	3.09	340	981.38	21.6	22.1	0.6
8/30/05 4:00	224	0.89408	20	18.6	17.8	87	2.57	340	981.71	20.8	21.4	0.6
8/30/05 5:00	235	0.44704	19.4	18.4	17.8	91	2.57	360	982.39	20.2	20.8	0.6
8/30/05 6:00	200	0.44704	20.6	18.8	17.8	84	2.06	340	982.39	20.9	21.3	0.5
8/30/05 7:00	180	1.34112	22.2	19.7	18.3	79	2.06	350	982.73	23.6	23.2	-0.4
8/30/05 8:00	68	1.78816	25	21	18.9	69	2.57	10	983.07	25.5	24.7	-0.9
8/30/05 9:00	56	1.78816	27.2	21.4	18.3	58	2.57	350	983.41	27.3	26.3	-1
8/30/05 10:00	76	1.34112	29.4	21.4	17.2	48	2.57	0	983.41	28.5	27.3	-1.1
8/30/05 11:00	110	1.34112	30	21.3	16.7	45	0.00	0	983.07	29.3	28.3	-0.9
8/30/05 12:00	105	1.34112	30.6	21.8	17.2	45	2.06	0	983.07	29.9	28.9	-1
8/30/05 13:00	136	1.34112	31.1	21.9	17.2	43	2.06	350	982.73	30.4	29.4	-1
8/30/05 14:00	181	1.34112	31.7	21.8	16.7	41	3.09	360	982.05	30.8	29.8	-1
8/30/05 15:00	154	1.34112	31.7	20.6	14.4	35	3.09	330	981.71	30.9	30.1	-0.8
8/30/05 16:00	197	1.34112	31.1	21.1	15.6	39	2.57	340	981.71	31.1	30.4	-0.7
8/30/05 17:00	226	0.89408	30	20.4	15	40	2.06	330	981.71	30.2	29.8	-0.4
8/30/05 18:00	162	0	28.3	20.2	15.6	46	1.54	340	982.05	26.6	27.9	1.3
8/30/05 19:00	236	0	25	20.6	18.3	66	1.54	150	982.73	23.5	26.5	2.9
8/30/05 20:00	234	0	25.6	19.9	16.7	58	0.60	0	983.07	23.7	26.6	2.9
8/30/05 21:00	254	0	23.9	19.6	17.2	66	2.06	140	983.41	23.3	26	2.8
8/30/05 22:00	237	0	23.3	19.4	17.2	69	0.00	0	983.41	23.8	25.8	2
8/30/05 23:00	227	0	23.3	19.8	17.8	71	0.00	0	983.41	22.7	24.7	1.9
8/31/05 0:00	266	0	22.2	19.4	17.8	76	0.00	0	983.41	20.2	23.6	3.4
8/31/05 1:00	179	0	20.6	18.8	17.8	84	0.00	0	983.75	21.9	23.9	2
8/31/05 2:00	145	0.44704	20	18.3	17.2	84	2.06	120	984.08	20.6	23.5	3
8/31/05 3:00	192	0.44704	20.6	18.8	17.8	84	1.54	120	984.42	19.2	20.1	0.9
8/31/05 4:00	167	0	20	18.6	17.8	87	1.54	110	984.76	19.2	20.9	1.7
8/31/05 5:00	145	0	18.9	17.9	17.2	90	0.00	0	985.44	19.7	22	2.3
8/31/05 6:00	185	0	20	18.9	18.3	90	0.00	0	986.12	21.1	22.7	1.6
8/31/05 7:00	169	0.44704	23.3	20.1	18.3	74	0.00	0	986.79	24.6	24	-0.6
8/31/05 8:00	126	0.44704	26.1	20.7	17.8	60	0.00	0	987.13	26.2	25.4	-0.8
8/31/05 9:00	169	0.44704	28.9	21	16.7	48	0.00	0	987.47	28	27	-1
8/31/05 10:00	142	0.89408	30	21.6	17.2	46	1.54	160	987.47	29.7	28.5	-1.2
8/31/05 11:00	150	0.89408	32.2	20	12.8	31	0.00	0	987.13	30.3	29.4	-0.9
8/31/05 12:00	54	1.78816	32.8	19	10	25	2.57	50	986.79	31	30	-1
8/31/05 13:00	95	1.34112	32.8	19.9	12.2	28	0.00	0	986.45	31.9	30.9	-0.9
8/31/05 14:00	72	1.34112	33.3	20.6	13.3	30	2.06	0	986.12	31.9	31.1	-0.8
8/31/05 15:00	89	1.34112	32.8	20.7	13.9	32	1.54	320	986.12	31.8	31.2	-0.6
8/31/05 16:00	87	0.89408	32.8	20.7	13.9	32	2.57	0	986.12	31.3	30.9	-0.5
8/31/05 17:00	82	0.89408	30.6	21.2	16.1	42	2.57	110	986.45	30.3	30.2	-0.1
8/31/05 18:00	51	0.89408	27.8	21.3	17.8	55	2.57	360	986.79	26.6	29	2.4
8/31/05 19:00	77	0	26.1	20.7	17.8	60						

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{SEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
8/27/05 21:00	92.4	0	1.2	1.2	2.2	0.2	286.1	6.8	0	0	0	978.01
8/27/05 22:00	90.1	0.2	1.7	1.5	2.7	0.2	315.7	7.9	0	0	0	977.93
8/27/05 23:00	89.3	0.3	1.4	1.1	3.4	0.2	127.8	9.9	-0.5	0	0	978.2
8/28/05 0:00	88	0.1	1.4	1.3	2.3	0.2	32.7	5.1	-0.7	0	0	977.68
8/28/05 1:00	86.1	0.9	1.9	1	3	0.2	51.9	6.4	-0.3	0	0	977.18
8/28/05 2:00	92	0.1	0.7	0.6	1.6	0.1	120.5	9.1	-0.1	0	0	977.12
8/28/05 3:00	93.7	0.1	0.9	0.8	2.2	0.1	76.7	4.9	-0.1	0	0	977.43
8/28/05 4:00	94.5	0.1	0.6	0.5	1.3	0.1	174.6	10.9	0	0	0	977.35
8/28/05 5:00	95	0	0.4	0.4	1.3	0.1	48.2	5.9	1	0	0	977.21
8/28/05 6:00	95.8	0.3	1.2	0.9	3	0.2	47.7	9.6	66.2	0.24	0	977.73
8/28/05 7:00	86.5	1	1.6	0.6	2.5	0.3	38	10.2	245.7	0.88	0	978.18
8/28/05 8:00	80.5	0.9	1.5	0.6	3.2	0.4	21.8	14.7	452.1	1.63	0	978.86
8/28/05 9:00	75	2	2.7	0.7	4.9	0.6	39.3	14.7	604.3	2.18	0	978.94
8/28/05 10:00	71.7	1.9	2.6	0.7	5.4	0.6	61.8	18.4	676.5	2.44	0	978.86
8/28/05 11:00	67.3	1.8	2.6	0.8	4.7	0.7	79.5	17.1	686.2	2.47	0	978.19
8/28/05 12:00	65.8	2.1	3	0.9	5.7	0.8	111.8	15.9	600	2.16	0	977.7
8/28/05 13:00	60.3	1.8	2.7	0.9	5.4	0.7	112.3	17.2	692.9	2.49	0	977.42
8/28/05 14:00	56.8	1.8	2.6	0.8	4.6	0.6	121.7	15.4	607.8	2.19	0	977.07
8/28/05 15:00	54.5	1.3	2	0.7	4.5	0.5	117.2	17.5	507	1.83	0	976.66
8/28/05 16:00	50	1	1.6	0.7	3.8	0.4	77.4	14	446	1.61	0	976.35
8/28/05 17:00	55.1	0.8	1.5	0.7	3.2	0.4	55.5	13	220.4	0.79	0	976.09
8/28/05 18:00	63.4	0.3	1.1	0.7	2.3	0.2	27.9	7.6	17.2	0.06	0	976.17
8/28/05 19:00	66.8	0.5	1.8	1.3	2.5	0.2	268.8	7.1	-0.5	0	0	977.21
8/28/05 20:00	65.7	0.7	2.2	1.5	3.8	0.3	293.5	9.8	-0.5	0	0	977.8
8/28/05 21:00	69.8	1.3	2.5	1.2	6.1	0.6	307.7	11.8	-0.1	0	0	977.83
8/28/05 22:00	76	1.6	2.6	1.1	5.5	0.8	296.1	15.6	0	0	0	978.14
8/28/05 23:00	73.8	1.2	2.2	1	4.8	0.6	296.5	16.4	-0.1	0	0	978.32
8/29/05 0:00	73.3	2.2	3.5	1.3	6.5	0.8	205.1	13	-0.2	0	0	977.99
8/29/05 1:00	73.8	1.5	2.4	0.9	6.2	0.5	22	12.1	-0.3	0	0	977.68
8/29/05 2:00	74.7	1.6	2.6	0.9	5	0.5	35.7	11	-0.2	0	0	977.36
8/29/05 3:00	76.8	1.8	2.7	0.9	4.8	0.5	33.8	10.6	0	0	0	977.28
8/29/05 4:00	81.2	2.1	3	0.9	5	0.6	36.3	10.5	0	0	0	977.33
8/29/05 5:00	83.9	2.1	3.1	0.9	4.8	0.5	34.6	9.9	1.3	0	0	977.55
8/29/05 6:00	83.3	2.3	3.2	0.9	5.3	0.6	28.2	10.2	67.3	0.24	0	977.83
8/29/05 7:00	76.8	1.9	2.6	0.7	4.8	0.5	35	11.6	249.4	0.9	0	978.05
8/29/05 8:00	72.3	1.9	2.5	0.7	4.7	0.5	50.7	15.5	443.8	1.6	0	978.63
8/29/05 9:00	69.3	1.7	2.4	0.7	5.2	0.6	39.6	16.5	621.2	2.24	0	978.78
8/29/05 10:00	67.2	2.2	3	0.7	6.8	0.8	28.8	17.6	757.4	2.73	0	978.42
8/29/05 11:00	60.7	2.4	3.3	0.9	6.5	0.9	28.8	16.6	846.3	3.05	0	977.62
8/29/05 12:00	51.9	2.8	3.7	0.9	6.6	0.9	36.7	15.3	869	3.13	0	976.83
8/29/05 13:00	49.3	2.8	3.8	1	6.8	1	31.3	17	833.5	3	0	976.21
8/29/05 14:00	45.6	2.9	3.9	1	8.6	1.1	31.2	16.7	748.1	2.69	0	975.56
8/29/05 15:00	44.6	2.6	3.6	1.1	7.5	0.9	25.2	15.6	604	2.17	0	975.01
8/29/05 16:00	46.8	2.1	3.1	1	5.8	0.8	20.1	13.4	423	1.52	0	974.84
8/29/05 17:00	50.8	1.8	2.8	1	5.5	0.6	12.1	11.7	214.7	0.77	0	974.7
8/29/05 18:00	59.6	1.3	2.6	1.3	5.1	0.5	179.8	10	20.1	0.07	0	974.62
8/29/05 19:00	63.3	1.6	2.9	1.3	4.7	0.5	209.3	10	-0.4	0	0	974.56
8/29/05 20:00	62	2.1	3.2	1.1	5.7	0.7	15.2	11.8	-1	0	0	974.91
8/29/05 21:00	62.3	1.9	3	1.1	5.4	0.6	17.3	11.8	-0.8	0	0	975.16
8/29/05 22:00	65.7	1.8	3	1.2	5.2	0.5	10	10.1	-0.9	0	0	975.18
8/29/05 23:00	70.2	1.6	2.8	1.2	4.9	0.5	119.9	9.7	-0.3	0	0	974.94
8/30/05 0:00	74.6	1.4	2.6	1.2	4.3	0.5	262	10.4	0	0	0	974.68
8/30/05 1:00	77.3	1.6	2.9	1.3	4.6	0.6	322.2	10.9	0	0	0	974.69
8/30/05 2:00	76	1.6	2.9	1.3	5	0.6	325.6	11.3	0	0	0	974.76
8/30/05 3:00	74.6	1.5	2.5	1.1	5.1	0.5	38.4	12.5	0	0	0	974.78
8/30/05 4:00	78.4	1	2.2	4.7	4.7	0.5	295.8	12.7	0	0	0	975.01
8/30/05 5:00	82	1	2.2	1.2	4.6	0.5	322.3	13.9	0.6	0	0	975.46
8/30/05 6:00	79.2	0.8	1.9	1	3.6	0.5	42.1	14.1	35.9	0.13	0	975.92
8/30/05 7:00	68.3	1	1.8	0.8	4.2	0.5	19.3	14.8	245.3	0.88	0	976.15
8/30/05 8:00	62.6	1.2	1.8	0.6	3.3	0.4	158.1	16.8	465.7	1.68	0	976.43
8/30/05 9:00	58.9	1.2	1.8	0.6	3.3	0.5	117.8	20.3	635.9	2.29	0	976.9
8/30/05 10:00	53.3	1.4	2.1	0.6	4.5	0.6	67.3	18.5	783.8	2.82	0	976.88
8/30/05 11:00	49.8	0.6	1.3	0.6	3	0.4	105	32	867.2	3.12	0	976.76
8/30/05 12:00	45.8	0.8	1.3	0.5	3.5	0.5	118.1	24.3	887.6	3.2	0	976.64
8/30/05 13:00	42.5	0.8	1.3	0.6	3.1	0.5	97	31.7	855.4	3.08	0	976.36
8/30/05 14:00	42.1	0.8	1.3	0.5	3.3	0.5	40.2	25.3	775.2	2.79	0	975.83
8/30/05 15:00	42.3	0.6	1.1	0.5	3	0.4	191.6	24.9	618.3	2.23	0	975.44
8/30/05 16:00	41.7	0.2	0.8	0.6	2.2	0.3	210.2	23.7	424.8	1.53	0	975.29
8/30/05 17:00	44.6	0.1	0.9	0.8	2.5	0.2	168	9.7	212.6	0.77	0	975.3
8/30/05 18:00	60.9	0	0.4	0.4	1.1	0.1	150.1	6.4	18	0.06	0	975.5
8/30/05 19:00	70.4	0	0.7	1.5	0.1	1.1	183	6.6	-0.2	0	0	975.9
8/30/05 20:00	63.7	0	1.1	1.7	0.2	0.2	162	6.7	0	0	0	976.33
8/30/05 21:00	65.8	0	1.3	1.3	0.5	0.3	160.8	9.9	0	0	0	976.54
8/30/05 22:00	59.4	0	1.4	1.4	2.4	0.3	162.7	9.8	0	0	0	976.57
8/30/05 23:00	65.7	0	1.2	1.2	2.5	0.2	199.9	7.8	0	0	0	976.6
8/31/05 0:00	80.7	0	1.2	1.2	2	0.1	196.3	5.2	0	0	0	976.73
8/31/05 1:00	69.3	0	1.3	1.3	1.9	0.1	181.6	5	0	0	0	976.74
8/31/05 2:00	72.3	0.1	0.8	0.7	1.7	0.2	147	9.8	0	0	0	976.96
8/31/05 3:00	89.1	0.4	1.4	1	4.6	0.4	98.7	14.9	0	0	0	977.5
8/31/05 4:00	86.4	0.1	0.4	0.3	1.5	0.3	108.8	20.4	0	0	0	977.79
8/31/05 5:00	83	0.1	1.2	1.2	3	0.3	139	13	1	0	0	978.34
8/31/05 6:00	79.7	0	0.8	0.8	2.4	0.3	162.2	14.2	75.1	0.27	0	979.03
8/31/05 7:00	70.9	0.3	0.7	0.4	2.2	0.2	220.8	12.2	264.3	0.95	0	979.82
8/31/05 8:00	61	0.6	1.2	0.6	2.9	0.3	142.1	17.4	461.5	1.66	0	980.33
8/31/05 9:00	53.5	0.5	1.3	0.8	2.5	0.4	169.7	16.6	643.3	2.32	0	980.6
8/31/05 10:00	49.5	0.8	1.4	0.6	2.8	0.4	150.1	18.7	779.3	2.81	0	980.79
8/31/05 11:00	42.1	0.9	1.5	0.6	2.9	0.5	113.9	24.1	858.5	3.19	0	980.72
8/31/05 12:00	39.2	0.9	1.6	0.7	3.8	0.7	111.1	20.8	874.4	3.15	0	980.42
8/31/05 13:00	36	0.6	1.1	0.5	2.6	0.4	190.5	29.4	839.2	3.02	0	980.11
8/31/05 14:00	34.1	0.7	1.2	0.6	3.3	0.5	86.4	23.5	741.9	2.67	0	979.82
8/31/05 15:00	34.3	0.7	1.3	0.6	2.9	0.5	72	20.2	597.8	2.15	0	979.62
8/31/05 16:00	39.5	0.5	1.3	0.7	3.2	0.4	86.4	18.2	413.4	1.49	0	979.57
8/31/05 17:00	46.1	0.1	0.9	0.8	1.7	0.2	82	10.5	203.8	0.73	0	979.8
8/31/05 18:00	61.7	0	0.6	0.6	1.2	0.1	94.3	4.7	18.8	0.07	0	980.03
8/31/05 19:00	62.3	0.4	0.9	0.6	1.6	0.1	41.4	2.5	-0.6	0	0	980.54
8/31/05 20:00	59.7	0	1.1	1.1	1.6	0.1	63.6	3.8	-0.1	0	0	981.07
8/31/05 21:00	62.7	0.4	1.1	0.7	2.4	0.2	126.8	7.3	0	0	0	981.41
8/31/05 22:00	67.2	0.4	0.7	0.4	1.4	0.1	49.9	7.4	0	0	0	981.58
8/31/05 23:00	69.3	0.3	1	0.7	2	0.1	88.8	8.3	0	0	0	981.72
9/1/05 0:00	63.2	0.4	1.4	1	4.1	0.2	74.4					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127							RH (%)	
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)		T _a (°C)
9/1/05 12:00	0.07482						0.1	0.001	0.013	0.014	37.5	32.78	41
9/1/05 13:00	0.09407						0.124	0.001	0.012	0.013	43.6	32.22	45
9/1/05 14:00	0.1017						0.11	0.001	0.016	0.017	39.4	32.78	44
9/1/05 15:00	0.1208						0.105	0.001	0.013	0.014	39	32.78	43
9/1/05 16:00	0.1082						0.087	0.002	0.014	0.016	35.9	32.78	43
9/1/05 17:00	0.09448						0.077	0.001	0.018	0.019	34.5	32.22	46
9/1/05 18:00	0.07821						0.052	0.002	0.025	0.027	36.8	30.56	56
9/1/05 19:00	0.06887						0.02	0.004	0.037	0.04	36.6	26.67	69
9/1/05 20:00	0.06254						0.001	0.02	0.041	0.06	39.6	24.44	80
9/1/05 21:00	0.06182						0	0.026	0.032	0.058	37.7	23.33	86
9/1/05 22:00	0.06349						0	0.018	0.027	0.045	38.9	22.78	88
9/1/05 23:00	0.0671						0	0.015	0.02	0.034	37.2	22.22	90
9/2/05 0:00	0.06406						0.002	0.007	0.019	0.026	39.3	21.67	91
9/2/05 1:00	0.06343						0.002	0.004	0.015	0.019	36.8	21.11	91
9/2/05 2:00	0.05894						0.006	0.006	0.01	0.017	35.4	21.11	91
9/2/05 3:00	0.05398						0.002	0.002	0.009	0.011	35.2	20.56	91
9/2/05 4:00	0.05562						0	0.008	0.008	0.016	32	19.44	93
9/2/05 5:00	0.05233						0	0.013	0.009	0.022	33	19.44	94
9/2/05 6:00	0.04098						0	0.025	0.011	0.036	35.2	20.00	94
9/2/05 7:00	0.03743						0.004	0.021	0.017	0.038	36.5	22.78	84
9/2/05 8:00	0.03668						0.01	0.023	0.025	0.048	37.9	26.11	71
9/2/05 9:00	0.03621						0.046	0.004	0.015	0.019	38	28.89	54
9/2/05 10:00	0.04298						0.061	0.002	0.014	0.016	34.6	30.56	49
9/2/05 11:00	0.05471						0.077	0.002	0.015	0.017	37	31.67	46
9/2/05 12:00	0.06628						0.092	0.001	0.014	0.016	32	27.78	42
9/2/05 13:00	0.07158						0.095	0.001	0.011	0.012	33	33.33	42
9/2/05 14:00	0.07001						0.092	0.002	0.013	0.015	33	33.33	43
9/2/05 15:00	0.0752						0.08	0.001	0.013	0.014	32	32.22	45
9/2/05 16:00	0.07859	36.3	3.6	1.3	112.5	5.4	0.075	0.001	0.011	0.013	33	33.33	42
9/2/05 17:00	0.07494	33.9	2.7	1.3	202.5	3.6	0.066	0.001	0.013	0.014	32	32.78	45
9/2/05 18:00	0.06965	31.4	2.1	0.9	180	3.1	0.036	0.003	0.032	0.036	30	30.00	55
9/2/05 19:00	0.06798	29.3	1.7	0.9	112.5	3.6	0.018	0.013	0.043	0.056	27	22.22	64
9/2/05 20:00	0.06752	28.1	0.9	0.9	270	2.7	0.003	0.024	0.04	0.064	25	25.56	76
9/2/05 21:00	0.06799	27.6	1.1	0.9	270	3.1	0	0.029	0.03	0.06	23	23.89	84
9/2/05 22:00	0.05509	27.6	0.9	0.9	270	3.6	0	0.046	0.024	0.07	23	23.33	88
9/2/05 23:00	0.05567	27.1	0.6	0.9	292.5	3.6	0	0.021	0.022	0.043	22	22.78	89
9/3/05 0:00	0.05605	27.5	1.5	2.7	112.5	7.2	0	0.021	0.018	0.04	22	22.78	90
9/3/05 1:00	0.04922	26.3	0.8	4.5	112.5	7.6	0.001	0.01	0.017	0.026	22	22.22	89
9/3/05 2:00	0.04743	26.2	1.1	2.7	202.5	6.3	0	0.014	0.013	0.027	21	21.11	92
9/3/05 3:00	0.03074	26.8	1.1	3.6	202.5	5.8	0	0.007	0.011	0.018	21	21.11	93
9/3/05 4:00	0.04102	26.8	0.2	3.1	202.5	5.4	0	0.008	0.009	0.018	21	21.11	93
9/3/05 5:00	0.04681	26.3	1.1	3.1	180	4.9	0	0.014	0.007	0.021	21	21.11	93
9/3/05 6:00	0.04591	25.4	0.5	4	180	5.8	0	0.019	0.008	0.027	20	20.56	93
9/3/05 7:00	0.04977	25.4	0.3	3.1	180	5.4	0.006	0.012	0.014	0.026	23	23.89	82
9/3/05 8:00	0.04346	25.7	0.4	3.1	180	5.4	0.026	0.007	0.019	0.026	28	28.33	62
9/3/05 9:00	0.05122	26.8	3.9	1.8	180	4.5	0.054	0.003	0.015	0.017	30	30.56	50
9/3/05 10:00	0.05326	33.4	6.1	1.3	337.5	4.5	0.068	0.001	0.007	0.008	31	31.67	46
9/3/05 11:00	0.06401	37.1	3.8	1.8	180	4.5	0.073	0.001	0.006	0.007	32	32.22	44
9/3/05 12:00	0.06567	37.8	4.7	1.8	180	5.4	0.066	0.001	0.005	0.005	33	33.33	42
9/3/05 13:00	0.05796	40.3	5	2.2	202.5	5.8	0.065	0.001	0.005	0.006	33	33.33	42
9/3/05 14:00	0.0606	37.9	2.9	2.7	202.5	6.3	0.067	0.001	0.006	0.006	33	33.33	41
9/3/05 15:00	0.05999	38.5	3.6	1.8	202.5	5.4	0.067	0.001	0.008	0.009	33	33.89	41
9/3/05 16:00	0.05843	37.6	4.2	1.3	202.5	4.9	0.067	0.001	0.005	0.006	33	33.33	42
9/3/05 17:00	0.05665	34.2	2.5	0.9	112.5	3.6	0.056	0.001	0.009	0.01	32	32.78	45
9/3/05 18:00	0.05781	31.5	2.3	0.9	202.5	3.1	0	0.052	0	0.006	28	28.89	51
9/3/05 19:00	0.05223	27.2	5.2	8	112.5	15.6	0.046	0.001	0.007	0.008	26	26.67	57
9/3/05 20:00	0.05111	24.9	0.7	4.5	112.5	11.2	0.043	0	0.008	0.008	25	25.56	62
9/3/05 21:00	0.04494	24	1.1	2.7	112.5	8	0.044	0.001	0.009	0.009	24	24.44	69
9/3/05 22:00	0.03878	23.4	0.5	2.7	112.5	6.7	0.027	0.003	0.019	0.022	23	23.33	76
9/3/05 23:00	0.04804	23.8	1.3	3.6	112.5	8.9	0.017	0.002	0.018	0.02	22	22.22	82
9/4/05 0:00	0.04786	23.9	1.2	5.4	202.5	10.3	0.007	0.002	0.018	0.021	21	21.67	85
9/4/05 1:00	0.04361	23.4	0.4	4.9	202.5	8	0.006	0.004	0.021	0.024	22	22.22	85
9/4/05 2:00	0.03675	23.3	1	3.1	202.5	5.8	0.027	0	0.01	0.011	22	22.22	81
9/4/05 3:00	0.039	22.5	0.5	3.1	112.5	6.3	0.026	0	0.007	0.007	21	21.67	83
9/4/05 4:00	0.0436	22.7	0.6	2.7	180	6.3	0.018	0.001	0.007	0.008	21	21.67	84
9/4/05 5:00	0.04778	23	0.4	3.6	180	8	0.01	0.001	0.01	0.012	21	21.67	86
9/4/05 6:00	0.04992	23.1	0.3	3.6	157.5	7.6	0.009	0.002	0.011	0.013	21	21.67	85
9/4/05 7:00	0.04663	22.8	0.4	3.1	180	8	0.017	0.003	0.011	0.014	22	22.22	83
9/4/05 8:00	0.0419	22.9	0.4	3.6	112.5	8.5	0.043	0	0.007	0.007	21	21.11	86
9/4/05 9:00	0.05247	21.8	2.3	5.4	112.5	12.1	0.047	0.001	0.006	0.006	20	20.00	79
9/4/05 10:00	0.05406	20.8	1	3.1	0	14.3	0.032	0.001	0.01	0.011	19	19.44	84
9/4/05 11:00	0.05505	20.2	1.8	4.5	202.5	10.3	0.052	0.001	0.015	0.016	18	18.89	86
9/4/05 12:00	0.04566	20.1	1.3	1.8	202.5	4.9	0.032	0.001	0.01	0.011	18	18.89	88
9/4/05 13:00	0.04988	21.7	2	0.9	112.5	4.9	0.024	0.005	0.013	0.019	21	21.11	86
9/4/05 14:00	0.05456	25.6	4.2	2.2	112.5	5.8	0.035	0.002	0.009	0.011	23	23.33	74
9/4/05 15:00	0.06168	27.7	1.3	2.7	202.5	6.3	0.029	0.006	0.018	0.023	25	25.00	68
9/4/05 16:00	0.05309	28.1	2.7	1.8	202.5	5.4	0.027	0.008	0.021	0.028	26	26.67	63
9/4/05 17:00	0.0529	28	2.1	0.9	112.5	3.6	0.027	0.003	0.015	0.018	26	26.11	66
9/4/05 18:00	0.04879	26.8	2.4	0.9	112.5	3.1	0.012	0.008	0.021	0.029	24	24.44	75
9/4/05 19:00	0.04341	24.7	1.3	2.2	112.5	4.5	0.001	0.022	0.022	0.044	22	22.78	87
9/4/05 20:00	0.04545	24.2	0.7	3.1	112.5	5.4	0	0.051	0.013	0.064	21	21.67	91
9/4/05 21:00	0.04818	24.6	0.3	4	112.5	5.8	0	0.054	0.009	0.063	20	20.56	93
9/4/05 22:00	0.0482	24.6	0.6	4	112.5	5.8	0	0.041	0.009	0.05	20	20.00	94
9/4/05 23:00	0.05501	24.4	0.5	4.9	112.5	6.3	0	0.043	0.006	0.049	20	20.00	95
9/5/05 0:00	0.03792	24.2	1	2.2	112.5	7.6	0	0.032	0.005	0.038	19	19.44	95
9/5/05 1:00	0.0449	23.6	0.8	1.8	337.5	6.3	0	0.027	0.004	0.031	18	18.33	95
9/5/05 2:00	0.04262	23.4	1	2.7	315	11.2	0	0.025	0.004	0.03	18	18.33	95
9/5/05 3:00	0.0497	24	0.5	4.5	180	9.4	0	0.026	0.003	0.029	17	17.78	95
9/5/05 4:00	0.0463	23.1	1.1	5.4	157.5	11.6	0	0.015	0.004	0.02	17	17.22	96
9/5/05 5:00	0.05147	23.6	1.5	6.3	180	13.4	0	0.012	0.006	0.017	17	17.22	96
9/5/05 6:00	0.05498	23.3	1.4	6.3	180	12.5	0	0.012	0.007	0.019	17	17.22	96
9/5/05 7:00	0.05396	22.											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
9/1/05 12:00	224	0.44704	33.3	24.1	20	46	3.09	360	991.20	31.1	30.3	-0.8
9/1/05 13:00	114	2.2352	33.3	23.5	18.9	43	2.57	340	990.52	31.6	30.7	-0.9
9/1/05 14:00	64	2.2352	33.9	24.3	20	44	2.57		990.18	32.1	31.2	-0.9
9/1/05 15:00	64	2.2352	33.3	23.8	19.4	44	4.12	20	989.94	31.9	31.3	-0.7
9/1/05 16:00	76	1.78816	32.8	23.3	18.9	44	3.60	80	989.16	31.5	31.1	-0.4
9/1/05 17:00	72	0.89408	31.1	22.3	17.8	45	3.09	110	989.16	30.5	30.4	-0.1
9/1/05 18:00	61	0.89408	29.4	22.4	18.9	53	2.06	100	989.16	27.7	29.1	1.4
9/1/05 19:00	93	0.44704	29.4	22.4	18.9	53	2.06	60	990.18	26.2	28.7	2.5
9/1/05 20:00	241	0	27.8	22.2	19.4	60	2.06	80	990.86	26.3	28.2	1.9
9/1/05 21:00	195	0	24.4	21.9	20.6	79	1.54	360	991.53	25.1	27.7	2.6
9/1/05 22:00	206	0	23.9	22	21.1	84	0.00	0	991.53	24.3	27.2	2.9
9/1/05 23:00	186	0	24.4	21.9	20.6	79	0.00	0	991.53	24.2	25.7	1.5
9/2/05 0:00	173	0	24.4	21.5	20	77	2.06	150	991.53	23.7	25.1	1.3
9/2/05 1:00	176	0	24.4	21.1	19.4	74	1.54	170	991.53	22.9	24.4	1.6
9/2/05 2:00	73	0.44704	23.9	21	19.4	76	0.00	0	991.53	21.9	24	2.2
9/2/05 3:00	196	0	21.7	20.2	19.4	87	1.54	110	991.87	21.6	23.1	1.5
9/2/05 4:00	114	0	20.6	19.8	19.4	93	1.54	340	992.55	21	22.5	1.5
9/2/05 5:00	161	0	21.1	19.7	18.9	87	1.54	110	992.55	20.8	22	1.1
9/2/05 6:00	150	0.44704	22.8	20.3	18.9	79	2.57	110	993.23	21.4	21.8	0.4
9/2/05 7:00	71	0.89408	24.4	21.1	19.4	74	2.57	110	993.90	23	22.6	-0.4
9/2/05 8:00	118	0.89408	27.8	21.6	18.3	56	3.60	180	994.24	25.2	24.4	-0.9
9/2/05 9:00	172	1.34112	29.4	22	18.3	51	3.09	170	994.58	27.8	26.7	-1.1
9/2/05 10:00	196	0.89408	31.1	22.9	18.9	48	2.06		994.24	29.3	28.3	-1
9/2/05 11:00	187	0.89408	32.8	23	18.3	42	0.00	0	993.90	29.9	28.9	-1.1
9/2/05 12:00	102	1.34112	32.2	24.2	20.6	50	3.60	130	993.57	31.2	30.2	-1.1
9/2/05 13:00	116	1.78816	33.3	23.5	18.9	43	3.60	100	993.23	31.5	30.7	-0.8
9/2/05 14:00	71	2.2352	33.3	22.9	17.8	40	4.12	130	992.55	31.6	30.9	-0.7
9/2/05 15:00	102	0.89408	32.8	23	18.3	42	3.60	120	992.21	32.2	31.5	-0.7
9/2/05 16:00	120	1.34112	32.8	23.6	19.4	45	2.57	120	992.21	32.1	31.6	-0.5
9/2/05 17:00	142	0.89408	31.1	23.5	20	52	2.57	110	992.21	30.8	30.7	-0.2
9/2/05 18:00	93	0.44704	30	22.8	19.4	53	2.06	100	992.21			
9/2/05 19:00	108	0	28.3	22.7	20	61	2.06	120	992.55			
9/2/05 20:00	145	0	28.9	22.2	18.9	55	1.54	90	992.89			
9/2/05 21:00	188	0	26.7	22.6	20.6	69	0.00	0	993.23			
9/2/05 22:00	189	0	25	22.1	20.6	77	1.54	110	992.89			
9/2/05 23:00	143	0.44704	26.7	21.6	18.9	62	2.06	100	993.23			
9/3/05 0:00	207	0	25	21	18.9	69	2.06	130	993.57			
9/3/05 1:00	136	0	24.4	20.8	18.9	72	1.54	130	993.90			
9/3/05 2:00	127	0	23.9	21	19.4	76	0.00	0	993.90			
9/3/05 3:00	192	0	23.3	21.5	20.6	85	0.00	0	994.24			
9/3/05 4:00	157	0	23.3	20.8	19.4	79	1.54	160	994.58			
9/3/05 5:00	166	0	22.8	20.6	19.4	81	1.54	140	994.92			
9/3/05 6:00	176	0	23.3	20.8	19.4	79	1.54	120	995.26			
9/3/05 7:00	177	0	25.6	21.9	20	71	2.06	200	995.60			
9/3/05 8:00	201	0.44704	28.3	22.1	18.9	57	2.57	180	995.94			
9/3/05 9:00	225	0.89408	30.6	22.1	17.8	46	2.57	200	995.94			
9/3/05 10:00	238	0.89408	31.7	22.4	17.8	43	2.57	260	995.60			
9/3/05 11:00	234	1.34112	32.2	22.9	18.3	44	3.09	190	995.26			
9/3/05 12:00	208	0.89408	32.8	23	18.3	42	3.60	170	994.58			
9/3/05 13:00	187	1.34112	33.3	23.5	18.9	43	4.63	200	993.57			
9/3/05 14:00	201	1.34112	33.3	23.5	18.9	43	2.06		992.89			
9/3/05 15:00	212	0.89408	33.3	23.2	18.3	41	0.00	0	992.55			
9/3/05 16:00	118	0.89408	33.3	23.5	18.9	43	2.57	150	992.21			
9/3/05 17:00	196	0.44704	30	22.2	18.3	50	8.23	120	992.55			
9/3/05 18:00	147	3.12928	26.7	20.3	16.7	54	7.20	120	993.23			
9/3/05 19:00	116	1.78816	26.1	20.7	17.8	60	4.12	90	994.58			
9/3/05 20:00	109	1.78816	24.4	20.2	17.8	67	2.06	120	994.58			
9/3/05 21:00	155	0.89408	23.9	21	19.4	76	3.09	180	994.24			
9/3/05 22:00	161	0	23.9	20.7	18.9	74	0.00	0	993.90			
9/3/05 23:00	159	0.44704	23.3	20.8	19.4	79	1.54	130	993.90			
9/4/05 0:00	133	0	22.8	20.6	19.4	81	2.57	110	993.57			
9/4/05 1:00	84	0.89408	22.2	20.1	18.9	82	2.57	100	993.90			
9/4/05 2:00	118	0.89408	21.7	19.5	18.3	81	2.06	100	993.57			
9/4/05 3:00	110	0.44704	22.2	20.1	18.9	82	2.06	150	993.57			
9/4/05 4:00	96	0	21.7	19.9	18.9	84	1.54	120	993.90			
9/4/05 5:00	84	0	22.8	20.3	18.9	79	2.06	140	994.24			
9/4/05 6:00	103	0.44704	22.8	20.3	18.9	79	3.09	160	995.26			
9/4/05 7:00	99	0.89408	21.1	19.7	18.9	87	3.60	90	995.60			
9/4/05 8:00	163	2.2352	21.1	19.7	18.9	87	5.14	160	996.95			
9/4/05 9:00	173	2.2352	21.7	18.9	17.2	76	4.63	130	996.61			
9/4/05 10:00	233	0.89408	21.7	18.6	16.7	73	3.09	210	996.61			
9/4/05 11:00	261	0.89408	20	18.3	17.2	54	2.57	290	995.94			
9/4/05 12:00	230	0.44704	19.4	18	17.2	87	1.54	330	995.94			
9/4/05 13:00	77	0.89408	22.2	19.7	18.3	79	2.06	100	994.92			
9/4/05 14:00	170	0.44704	25.6	21.2	18.9	67	2.06		994.24			
9/4/05 15:00	108	0.89408	25.6	19.9	16.7	58	2.57	120	993.57			
9/4/05 16:00	103	1.34112	27.2	20.5	16.7	53	2.57	110	993.23			
9/4/05 17:00	77	0.89408	26.1	21.4	18.9	65	2.06	100	992.89			
9/4/05 18:00	83	0.44704	25.6	21.2	18.9	67	2.57	80	992.55			
9/4/05 19:00	183	0	25	21	18.9	69	0.00	0	992.89			
9/4/05 20:00	179	0	22.8	21	20	84	0.00	0	993.23			
9/4/05 21:00	179	0	21.7	20.6	20	90	0.00	0	993.23			
9/4/05 22:00	219	0	22.2	20.8	20	87	0.00	0	993.57			
9/4/05 23:00	154	0	20.6	19.8	19.4	93	1.54	350	993.90			
9/5/05 0:00	165	0	20.6	19.8	19.4	93	0.00	0	993.90			
9/5/05 1:00	176	0	20.6	19.1	18.3	87	3.09	140	994.24			
9/5/05 2:00	203	0	20	18.3	17.2	84	3.09	130	994.24			
9/5/05 3:00	236	0	19.4	17.7	16.7	84	3.60	140	994.24			
9/5/05 4:00	150	0.44704	19.4	17.1	15.6	79	3.09	130	994.58			
9/5/05 5:00	150	0	19.4	16.8	15	76	3.09	140	994.92			
9/5/05 6:00	156	0.44704	20.6	17.2	15	70	3.09	160	995.26			
9/5/05 7:00	187	0	23.3	18.5	15.6	62	3.09	160	995.60			
9/5/05 8:00	173	1.34112	25	19.1	15.6	56	3.60	180	995.60			
9/5/05 9:00	187	1.34112	26.7	19.7	15.6	51	4.63	180	995.60			
9/5/05 10:00	182	1.34112	27.2	19.6	15	47	4.12	190	995.60			
9/5/05 11:00	166	1.34112	28.3	20.2	15.6	46	4.63	170	995.26			
9/5/05 12:00	138	1.34112	29.4	20.6	15.6	43	3.09	130	994.58			
9/5/05 13:00	131	1.78816	30	21	16.1	43	4.12	120	993.57			
9/5/05 14:00	124	1.78816	30	21	16.1	43	2.57		992.89			
9/5/05 15:00	131	1.78816	30	20.8	15.6	42	2.57	130	992.55			
9/5/05 16:00	116	1.78816	30	20.8	15.6	42	2.06	110	992.55			
9/5/05 17:00	108	1.34112	28.3	21.1	17.2	51	1.54	120	992.55			
9/5/05 18:00	128	0.89408	26.7	20.6	17.2	56	2.06	120	992.55			
9/5/05 19:00	182	0	24.4	19.8	17.2							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
9/1/05 12:00	50	0.8	1.1	0.4	3.1	0.4	145.6	31.6	837.6	3.02	0	985.05
9/1/05 13:00	49.3	1	1.5	0.5	3.8	0.6	65.7	21.9	800.7	2.88	0	984.58
9/1/05 14:00	46.1	1.4	2	0.7	3.8	0.5	72.9	19.8	710.5	2.56	0	983.92
9/1/05 15:00	46.8	1.2	1.9	0.6	4.1	0.5	77	16.8	565.5	2.04	0	983.48
9/1/05 16:00	47.6	0.9	1.6	0.7	3	0.3	97.5	14.8	375.6	1.35	0	983.08
9/1/05 17:00	51.9	0.2	1	0.8	2.2	0.2	76.7	9.8	181.8	0.65	0	982.78
9/1/05 18:00	62.2	0.4	1.5	1.1	2	0.1	32.3	4.3	21.2	0.08	0	982.76
9/1/05 19:00	63.7	0.6	1.6	1	2.2	0.1	31.7	4.1	-0.7	0	0	983.25
9/1/05 20:00	59.3	0.9	1.8	0.9	2.6	0.2	30.4	5.6	-0.5	0	0	984.16
9/1/05 21:00	62.1	0.2	1.4	1.2	2.5	0.2	35.1	6.2	-0.3	0	0	984.72
9/1/05 22:00	65.7	0.4	1.5	1.1	2.7	0.2	41.8	5.7	0	0	0	984.88
9/1/05 23:00	71	1	1.9	1	3.1	0.3	56.8	8.4	0	0	0	984.79
9/2/05 0:00	75.3	0.7	1.9	1.2	2.7	0.2	81.5	6.2	0	0	0	984.75
9/2/05 1:00	78.4	0.2	1.7	1.5	3.1	0.3	100.4	8	0	0	0	984.65
9/2/05 2:00	83.1	0.1	1	1	2.3	0.2	94	9.7	0	0	0	984.69
9/2/05 3:00	84.8	0.1	1.5	1.3	2.5	0.2	79.7	7.5	0	0	0	984.97
9/2/05 4:00	87.5	0.2	1.5	1.2	2.7	0.3	69.1	7.7	0	0	0	985.34
9/2/05 5:00	88.3	0.4	1.5	1.1	2.8	0.3	59	12	0.7	0	0	985.92
9/2/05 6:00	87.1	0.6	1.7	1.1	3.1	0.3	58.1	8.9	53.3	0.19	0	986.53
9/2/05 7:00	81.4	0.8	1.7	0.9	3	0.4	83.4	10.9	216.2	0.78	0	987
9/2/05 8:00	73.6	1.4	2	0.6	4.1	0.4	107.9	12.3	409.3	1.47	0	987.45
9/2/05 9:00	62.4	1.2	1.8	0.6	3.7	0.4	145.8	19.3	588.6	2.12	0	987.88
9/2/05 10:00	57.5	0.6	1	0.4	2.3	0.4	196.8	24.1	631.8	2.27	0	988.07
9/2/05 11:00	58.6	0.9	1.4	0.5	3.4	0.5	69.7	23.4	768.2	2.77	0	987.89
9/2/05 12:00	52.3	0.9	1.4	0.5	3.9	0.6	87.5	26.6	847.9	3.05	0	987.53
9/2/05 13:00	50.6	1.2	1.7	0.5	3.5	0.5	109.6	19.5	637.1	2.29	0	987.14
9/2/05 14:00	51.3	1.1	1.8	0.7	3.9	0.5	98.3	15.4	617.8	2.22	0	986.56
9/2/05 15:00	48.5	1	1.7	0.7	3.7	0.5	123.9	18.3	511.8	1.84	0	985.95
9/2/05 16:00	47.8	0.6	1.4	0.7	2.7	0.3	156.1	14.3	336.4	1.21	0	985.62
9/2/05 17:00	53.7	0.1	1	1	1.9	0.2	134.9	8.7	150.6	0.54	0	985.52
9/2/05 18:00	63.5	0	1.2	1.1	2.3	0.2	103.8	6.7	22.1	0.08	0	985.46
9/2/05 19:00	65.7	0.2	1.2	1	2	0.2	94.8	6.7	-0.6	0	0	985.7
9/2/05 20:00	67.5	0.3	1.3	1	1.8	0.1	90.6	4.3	-0.3	0	0	986.44
9/2/05 21:00	67.3	0.3	1.6	1.3	2.3	0.2	89.9	5.2	0	0	0	986.78
9/2/05 22:00	66.2	0.4	1.5	1.2	2.3	0.2	91.7	7.8	0	0	0	986.76
9/2/05 23:00	66.3	0.4	1.6	1.3	3.8	0.3	87.9	8.4	0	0	0	986.84
9/3/05 0:00	69.3	0.4	1.6	1.2	3	0.2	80.8	7.5	0	0	0	987.07
9/3/05 1:00	78	0.4	1.4	1	2.7	0.3	62.5	7.4	0	0	0	987.2
9/3/05 2:00	84.3	0.1	1	0.9	2	0.2	60.5	5.6	0	0	0	987.39
9/3/05 3:00	92	0	0.9	0.9	1.7	0.2	96.1	9.9	0	0	0	987.6
9/3/05 4:00	84.1	0.1	1.1	1	2.1	0.1	97.3	8.2	0	0	0	987.85
9/3/05 5:00	85.6	0	1.4	1.4	2.7	0.2	108.3	8.9	0.5	0	0	988.14
9/3/05 6:00	82.6	0.2	1.4	1.2	2.9	0.4	144.4	11.5	51.3	0.18	0	988.65
9/3/05 7:00	74.3	0.6	1.4	0.7	3.3	0.3	164.7	13.4	229.8	0.83	0	988.83
9/3/05 8:00	66.1	1.5	2.2	0.7	3.8	0.4	164.9	11.3	408.6	1.47	0	989.1
9/3/05 9:00	60.3	1.8	2.4	0.6	5	0.5	193.8	11.7	598.9	2.16	0	989.46
9/3/05 10:00	52.8	2.3	3.2	0.9	5.1	0.6	198.4	13	727.3	2.62	0	989.36
9/3/05 11:00	49.9	2.2	3	0.8	5.5	0.7	196.9	14	806.8	2.9	0	988.94
9/3/05 12:00	47.1	2	2.8	0.7	5.2	0.7	180.1	14	829.3	2.99	0	988.35
9/3/05 13:00	46.3	2.1	3	0.9	6.2	0.8	172.4	16.4	796.1	2.87	0	987.65
9/3/05 14:00	45.7	1.8	2.5	0.7	4.7	0.8	168.5	14.7	702.1	2.53	0	986.86
9/3/05 15:00	45.2	1.2	1.9	0.7	4.5	0.7	171.8	18.9	558.7	2.01	0	986.21
9/3/05 16:00	47.3	1.3	2	0.7	3.8	0.4	197.3	11.9	380.2	1.37	0	985.74
9/3/05 17:00	53.1	0.3	1.1	0.7	2.3	0.2	188.5	7.5	176.7	0.64	0	985.62
9/3/05 18:00	62	1.4	2.2	0.8	6.8	0.8	137.9	10.5	36.6	0.13	0	986.41
9/3/05 19:00	78.2	2	3.1	1.1	9.9	0.7	94.4	15.4	-0.7	0	0	987.78
9/3/05 20:00	84.3	0.9	1.9	1	3.3	0.4	81.2	11.3	-0.1	0	0	988.02
9/3/05 21:00	81.4	0.7	2.1	1.4	4	0.3	111.3	7.9	0	0	0	987.43
9/3/05 22:00	80.7	0.1	1	0.9	2.6	0.2	177.8	10.3	0	0	0	987.41
9/3/05 23:00	84.8	0.2	1.1	0.9	2.4	0.2	145.8	10.8	0	0	0	987.16
9/4/05 0:00	84.4	0.3	1.5	1.1	2.3	0.2	205.2	6.3	0	0	0	987.04
9/4/05 1:00	88.8	0.6	1.8	1.1	3.5	0.3	90.3	10.5	0	0	0	987.03
9/4/05 2:00	89.2	1.1	2.2	1.1	3.8	0.4	93.3	10.2	0	0	0	987
9/4/05 3:00	85	0.8	2.1	1.3	4.1	0.4	127.1	10.4	0	0	0	986.79
9/4/05 4:00	83.9	0.8	2	1.2	3.6	0.3	110.2	10	0	0	0	986.99
9/4/05 5:00	87.2	0.2	1.4	1.2	2.7	0.2	117.8	10.2	0.2	0	0	987.49
9/4/05 6:00	83	1.1	2	0.9	4.9	0.4	151.7	11.4	9.8	0.04	0	987.96
9/4/05 7:00	84.8	2.2	3.3	1.1	6.3	0.7	149.5	12.3	22.6	0.08	0.01	988.26
9/4/05 8:00	86.3	2.1	3	1	7.3	0.7	157.3	13.7	31.5	0.11	0.03	988.98
9/4/05 9:00	82.3	3.4	4.7	1.3	9.5	1.1	155.9	12.9	67.2	0.24	0.01	989.75
9/4/05 10:00	84.3	3.1	4.3	1.3	7.5	0.9	163.3	11.3	53.4	0.19	0.02	989.98
9/4/05 11:00	85.1	2.6	3.9	1.4	7.7	0.6	190.3	8	71.8	0.26	0.11	989.93
9/4/05 12:00	83	2	3.1	1	5.1	0.5	186	8.9	144.7	0.52	0	989.09
9/4/05 13:00	75.8	0.7	1.6	1	3.1	0.3	147.7	11.2	205.6	0.74	0.01	988.52
9/4/05 14:00	57.4	1.5	2.4	0.9	4.1	0.5	144.3	10.6	350.3	1.26	0	987.5
9/4/05 15:00	63.8	1.4	2	0.6	3.9	0.4	140.8	13.8	464.8	1.67	0	987.16
9/4/05 16:00	66.7	1.2	2	0.7	3.7	0.4	104.5	13	400.9	1.44	0	986.85
9/4/05 17:00	70.3	0.7	1.4	0.7	2.5	0.3	102.2	11.6	212.4	0.76	0	986.44
9/4/05 18:00	78.7	0.2	1.4	1.1	2.3	0.2	73.2	5.9	23	0.08	0	986.22
9/4/05 19:00	82.8	0.7	1.9	1.1	2.5	0.2	75.7	5.7	-0.8	0	0	986.33
9/4/05 20:00	84.8	0.6	2	1.5	2.8	0.2	91.9	4.7	-0.6	0	0	986.55
9/4/05 21:00	85	0.5	2.1	1.6	2.9	0.2	92.8	5.2	-0.1	0	0	986.69
9/4/05 22:00	84.3	0.5	2	1.5	2.8	0.2	95.6	6.7	0	0	0	986.9
9/4/05 23:00	82.4	0.6	1.9	1.3	3.1	0.2	85.8	4.9	0	0	0	987.09
9/5/05 0:00	83	0.3	1.9	1.6	3.2	0.2	93.9	6.3	0	0	0	987.2
9/5/05 1:00	83.7	0.7	2.1	1.4	3.2	0.3	99.3	6.8	0	0	0	987.36
9/5/05 2:00	77.8	1.4	2.8	1.3	4.6	0.4	126.5	7.8	0	0	0	987.4
9/5/05 3:00	78.4	1.7	3	1.3	4.6	0.5	132.8	9.1	0	0	0	987.39
9/5/05 4:00	74.4	1.7	2.9	1.2	5.1	0.5	144.3	10.2	0	0	0	987.6
9/5/05 5:00	76.6	1.5	2.4	1	4.4	0.5	148.8	10.7	0.6	0	0	987.69
9/5/05 6:00	72.7	1.6	2.6	1	4.5	0.5	153.3	11.2	55.3	0.2	0	988.35
9/5/05 7:00	64.8	2	2.7	0.8	5.6	0.7	163.7	15	224.9	0.81	0	988.65
9/5/05 8:00	63.3	2.3	3.2	0.9	6	0.7	151.9	13.9	425.7	1.53	0	988.82
9/5/05 9:00	60.2	1.9	2.6	0.7	5.3	0.7	175.5	15.4	646.2	2.33	0	989.05
9/5/05 10:00	53.1	2	2.7	0.7	5.2	0.7	176.9	17.2	754.5	2.72	0	988.94
9/5/05 11:00	50.5	1.5	2	0.6	4.2	0.6	155.3	21.9	835.3	3.01	0	988.69
9/5/05 12:00	46.5	1.8	2.4	0.7	5.2	0.7	152.6	19.5	859.6	3.09	0	988.18
9/5/05 13:00	45.4	1.7	2.4	0.7	4.7	0.6	145.2	19.8	822.6	2.96	0	987.39
9/5/05 14:00	44.3	1.7	2.3	0.7	4.8	0.7	150.8	18.3	729.3	2.63	0	986.7
9/5/05 15:00	44.9	1.6	2.3	0.7	4.8	0.7	141.2	15.4	582.2	2.1	0	986.19
9/5/05 16:00	45.3</											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (µg/m ³)	T _a (°C)			
9/6/05 3:00	0.05395	23.6	0.9	7.2	202.5	11.6	0	0.007	0.01	0.016		17.22	92		
9/6/05 4:00	0.05575	23.8	0.6	8	202.5	11.6	0	0.007	0.01	0.017		16.67	93		
9/6/05 5:00	0.05527	23.3	1.3	6.3	202.5	10.7	0	0.019	0.01	0.029		16.67	93		
9/6/05 6:00	0.05451	22.3	0.6	6.3	202.5	11.2	0	0.033	0.01	0.043		17.22	94		
9/6/05 7:00	0.05326	21.9	0.3	7.2	202.5	12.5	0.053	0.105	0.017	0.122		21.11	79		
9/6/05 8:00	0.05132	22.3	0.5	6.7	202.5	11.6	0.027	0.017	0.021	0.038		25.56	67		
9/6/05 9:00	0.04575	23.7	4	5.4	202.5	9.8	0.047	0.002	0.008	0.01		27.78	62		
9/6/05 10:00	0.04477	28.3	2.3	3.6	202.5	7.2	0.054	0.002	0.01	0.011		28.89	59		
9/6/05 11:00	0.04921	30.3	5.2	2.7	202.5	5.8	0.064	0.001	0.008	0.009		30.56	55		
9/6/05 12:00	0.05657	35.3	4.3	2.7	202.5	7.2	0.07	0.001	0.006	0.007		31.11	49		
9/6/05 13:00	0.0616	35.9	4.4	2.7	202.5	6.7	0.072	0.001	0.007	0.008		31.11	44		
9/6/05 14:00	0.0686	35.8	4	3.1	202.5	6.3	0.074	0.001	0.005	0.006		32.22	39		
9/6/05 15:00	0.0698	36.5	3.1	1.8	202.5	5.4	0.074	0.001	0.005	0.005	40.8	32.22	37		
9/6/05 16:00	0.07028	34.7	4.7	1.8	157.5	4.9	0.072	0	0.004	0.005	41.2	32.22	37		
9/6/05 17:00	0.07224	31.6	1.2	1.8	202.5	4	0.058	0.002	0.014	0.015	45.6	31.11	46		
9/6/05 18:00	0.072	30	2.4	0.4	157.5	2.7	0.043	0.001	0.017	0.018	49	28.33	60		
9/6/05 19:00	0.06556	27.6	2	0.4	112.5	3.1	0.012	0.013	0.034	0.047	49.6	25.00	75		
9/6/05 20:00	0.05437	26.4	1.1	0.4	135	1.8	0.001	0.013	0.03	0.044	48.1	23.33	84		
9/6/05 21:00	0.04581	25.4	0.9	0.4	292.5	2.2	0	0.021	0.026	0.047	48.5	22.78	88		
9/6/05 22:00	0.05853	25.2	0.9	0.4	270	2.2	0.001	0.009	0.021	0.03	47.6	22.22	88		
9/6/05 23:00	0.06601	25.2	0.6	0.9	270	2.7	0.001	0.006	0.015	0.021	45.5	21.11	90		
9/7/05 0:00	0.05727	26.1	1	4	112.5	8.9	0	0.004	0.013	0.017	45.2	21.11	92		
9/7/05 1:00	0.04835	25.1	1.3	2.7	112.5	8	0	0.003	0.011	0.014	45.7	20.56	93		
9/7/05 2:00	0.04435	24.9	0.7	8.5	202.5	13	0.002	0.008	0.01	0.017	41.9	20.56	92		
9/7/05 3:00	0.05127	25.2	0.7	9.8	202.5	12.5	0.016	0.001	0.01	0.011	40.9	21.11	82		
9/7/05 4:00	0.05179	24.9	1.1	9.4	202.5	12.1	0.004	0.006	0.012	0.018	42	20.00	86		
9/7/05 5:00	0.03877	24.3	0.6	9.4	202.5	11.6	0	0.024	0.014	0.037	43.3	18.89	89		
9/7/05 6:00	0.04794	24.1	0.7	9.4	202.5	11.6	0	0.063	0.013	0.075	46.2	18.89	89		
9/7/05 7:00	0.04679	23.6	0.4	8.9	202.5	11.2	0.006	0.055	0.025	0.079	41.9	22.78	72		
9/7/05 8:00	0.03996	23.6	0.4	8.5	202.5	11.6	0.024	0.006	0.022	0.028	40.3	25.56	58		
9/7/05 9:00	0.03193	24.3	2.2	7.6	202.5	10.7	0.038	0.004	0.017	0.021	39.9	27.78	51		
9/7/05 10:00	0.03929	27.6	4.1	4	180	9.4	0.055	0.002	0.012	0.014	42.7	29.44	48		
9/7/05 11:00	0.05138	31.1	2	3.6	202.5	7.6	0.061	0.002	0.01	0.012	40.5	30.00	45		
9/7/05 12:00	0.06	32.3	2.6	2.7	180	7.2	0.066	0.001	0.008	0.009	40	31.11	43		
9/7/05 13:00	0.06267	33.8	3.6	3.1	202.5	7.6	0.067	0.001	0.01	0.011	40	31.67	42		
9/7/05 14:00	0.06198	35.8	3.4	2.2	202.5	6.3	0.071	0.001	0.007	0.008	40.5	31.67	40		
9/7/05 15:00	0.06399	34.6	3.2	2.7	202.5	6.3	0.066	0.001	0.009	0.01	38.8	31.67	39		
9/7/05 16:00	0.06343	33.4	2.9	1.8	180	6.3	0.06	0.001	0.012	0.013	37.7	31.67	39		
9/7/05 17:00	0.05377	31.4	2.2	1.3	202.5	4.9	0.053	0.001	0.012	0.013	36.7	31.11	42		
9/7/05 18:00	0.05221	29.3	2.1	1.3	180	6.6	0.028	0.007	0.026	0.035	38	27.22	52		
9/7/05 19:00	0.05517	27.4	2	0.9	180	2.7	0.007	0.025	0.034	0.06	40.1	24.44	71		
9/7/05 20:00	0.03392	25.9	0.9	0.4	180	2.2	0	0.028	0.033	0.06	42.7	22.78	80		
9/7/05 21:00	0.05804	26.1	0.3	1.8	202.5	2.2	0	0.03	0.026	0.056	40	21.67	85		
9/7/05 22:00	0.05237	26.1	1	0.4	180	2.2	0	0.035	0.019	0.054	40.1	21.11	88		
9/7/05 23:00	0.0666	25.7	1.4	0.9	180	2.7	0	0.038	0.014	0.052	37.7	20.56	90		
9/8/05 0:00	0.04358	26.1	0.2	2.7	180	3.6	0	0.027	0.012	0.038	36.9	20.00	92		
9/8/05 1:00	0.05442	26.2	0.2	2.7	202.5	4.5	0	0.028	0.009	0.037	38	19.44	93		
9/8/05 2:00	0.06855	25.8	0.9	2.2	180	5.4	0	0.023	0.008	0.031	37.4	19.44	93		
9/8/05 3:00	0.06271	25.3	0.8	4.5	202.5	8.5	0	0.015	0.009	0.024	37.6	18.89	93		
9/8/05 4:00	0.05752	25.2	0.8	6.7	180	8.9	0	0.018	0.008	0.026	38.1	18.33	93		
9/8/05 5:00	0.04846	24.2	1.1	6.3	180	9.8	0	0.027	0.007	0.034	39.4	17.78	94		
9/8/05 6:00	0.05378	23.4	0.6	8.5	202.5	10.3	0	0.065	0.013	0.078	36.6	18.33	94		
9/8/05 7:00	0.04554	22.9	0.6	8	202.5	10.3	0.012	0.051	0.023	0.074	43.4	22.22	72		
9/8/05 8:00	0.03558	22.6	0.4	6.7	180	10.3	0.029	0.005	0.02	0.025	43.3	25.56	56		
9/8/05 9:00	0.04842	23.9	4.6	2.7	180	9.4	0.043	0.004	0.021	0.025	46.2	27.78	75		
9/8/05 10:00	0.04727	23.7	3.3	1.8	180	6.6	0.055	0.002	0.012	0.014	43.4	29.44	46		
9/8/05 11:00	0.05397	33.1	4.7	1.8	337.5	5.8	0.066	0.001	0.004	0.004	38	30.00	44		
9/8/05 12:00	0.05978	36.8	3.4	2.2	0	6.3	0.07	0.001	0.003	0.004	38	31.11	41		
9/8/05 13:00	0.06475	39	2.7	1.8	0	5.4	0.07	0	0.003	0.004	39	32.22	37		
9/8/05 14:00	0.06542	38.6	3	1.8	45	6.7	0.068	0	0.003	0.003	39.7	32.22	36		
9/8/05 15:00	0.06233	37.3	3.9	2.2	202.5	5.8	0.071	0	0.004	0.004	38.1	32.22	36		
9/8/05 16:00	0.06793	33.4	4.3	2.7	202.5	7.2	0.066	0.001	0.006	0.006	41.8	32.22	36		
9/8/05 17:00	0.06367	31	2.3	2.2	180	6.3	0.056	0.001	0.007	0.008	42.2	31.11	39		
9/8/05 18:00	0.05626	29.2	1.5	2.2	202.5	4.9	0.039	0.002	0.02	0.022	38.5	28.33	49		
9/8/05 19:00	0.05434	27.7	1.2	3.1	202.5	4.5	0.014	0.012	0.034	0.046	41.5	24.44	65		
9/8/05 20:00	0.05557	27.1	0.3	2.7	202.5	4	0	0.033	0.036	0.069	45.5	22.22	77		
9/8/05 21:00	0.05143	26.9	0.3	3.1	202.5	4.5	0	0.03	0.029	0.059	42.1	21.67	83		
9/8/05 22:00	0.05021	26.8	0.1	3.1	180	4.5	0	0.027	0.024	0.051	44.1	21.11	87		
9/8/05 23:00	0.04411	26.8	0.1	3.1	180	4	0	0.039	0.017	0.056	44	20.56	90		
9/9/05 0:00	0.05147	25.9	1.6	1.3	0	3.6	0	0.031	0.015	0.046	39.8	20.00	91		
9/9/05 1:00	0.06349	25	0.4	1.3	0	2.7	0	0.023	0.012	0.035	40.2	19.44	90		
9/9/05 2:00	0.06369	24.9	0.7	0.4	22.5	1.8	0.02	0.017	0.013	0.03	40.8	19.44	92		
9/9/05 3:00	0.06151	25.5	0.6	3.1	202.5	5.5	0	0.022	0.012	0.034	43.5	18.89	93		
9/9/05 4:00	0.05393	25.2	0.4	4	202.5	5.8	0	0.024	0.009	0.033	40.9	18.33	93		
9/9/05 5:00	0.06032	24.9	1.1	4	202.5	7.2	0	0.03	0.013	0.044	44.9	18.33	92		
9/9/05 6:00	0.06828	25.1	0.8	2.2	180	6.3	0	0.057	0.014	0.071	45.9	18.33	92		
9/9/05 7:00	0.06523	25.3	0.6	5.4	180	8	0.001	0.113	0.019	0.132	47	22.78	79		
9/9/05 8:00	0.05216	25.6	0.6	3.6	180	8	0.025	0.015	0.032	0.047	46.1	27.22	55		
9/9/05 9:00	0.0479	26.2	2	2.2	22.5	5.8	0.046	0.006	0.028	0.034	38.5	29.44	45		
9/9/05 10:00	0.05124	30.6	5.5	3.1	202.5	4.9	0.064	0.003	0.021	0.024	41.1	30.56	41		
9/9/05 11:00	0.05997	33.4	2	3.6	202.5	5.8	0.072	0.001	0.01	0.011	38.8	31.67	39		
9/9/05 12:00	0.07054	34.3	2.2	4	202.5	7.2	0.071	0.001	0.009	0.01	36.5	32.22	36		
9/9/05 13:00	0.06955	35.3	2.8	4	202.5	7.6	0.073	0.001	0.006	0.007	36.9	32.78	34		
9/9/05 14:00	0.06636	35.8	4.1	3.6	202.5	9.4	0.072	0.001	0.005	0.006	39.9	32.78	34		
9/9/05 15:00	0.07392	33.9	2.3	4	202.5	8.5	0.073	0.001	0.005	0.005	35.5	32.78	32		
9/9/05 16:00	0.07647	32.6	3.9	4.5	202.5	11.6	0.075	0.001	0.007	0.007	35.6	32.22	33		
9/9/05 17:00	0.08076	31.1	1.6	3.1	157.5	7.6	0.074	0.001							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
9/6/05 3:00	137	0	21.1	18	16.1	73	2.57	140	993.57			
9/6/05 4:00	207	0	20	17.6	16.1	78	2.06	140	993.90			
9/6/05 5:00	233	0	20	18	16.7	81	1.54	140	994.24			
9/6/05 6:00	167	0	20.6	18.8	17.8	84	3.09	130	994.92			
9/6/05 7:00	93	0	23.9	20.7	18.9	74	3.60	160	995.26			
9/6/05 8:00	161	0.89408	25.1	21.7	19.4	67	4.12	180	995.60			
9/6/05 9:00	198	1.34112	27.2	22	19.4	62	4.63	170	995.94			
9/6/05 10:00	187	1.34112	28.9	22.9	20	59	3.09	190	995.60			
9/6/05 11:00	189	1.34112	30	23.2	20	55	3.09	200	995.26			
9/6/05 12:00	201	1.34112	31.1	22.3	17.8	45	6.17	190	994.58			
9/6/05 13:00	186	1.34112	31.1	21.7	16.7	42	4.63	180	994.24			
9/6/05 14:00	185	1.34112	32.2	22.3	17.2	41	2.57	120	993.57			
9/6/05 15:00	201	1.34112	31.7	22.1	17.2	42	3.60	140	993.23			
9/6/05 16:00	195	0.89408	31.1	21.9	17.2	43	3.09	110	992.89			
9/6/05 17:00	91	0.89408	30	21.9	17.8	48	2.57	100	992.89			
9/6/05 18:00	94	0.44704	27.8	21.6	18.3	56	1.54	80	993.23			
9/6/05 19:00	184	0	27.8	21.6	18.3	56	2.57	70	993.57			
9/6/05 20:00	221	0	25	21.3	19.4	71	1.54	80	994.24			
9/6/05 21:00	201	0	25	21	18.9	69	0.00	0	994.58			
9/6/05 22:00	63	0	23.3	21.1	20	82	1.54	350	994.92			
9/6/05 23:00	120	0	24.4	21.1	19.4	74	1.54	60	994.92			
9/7/05 0:00	216	0	23.3	20.5	18.9	76	2.06	120	994.92			
9/7/05 1:00	159	0	23.9	19.4	16.7	64	2.57	170	994.92			
9/7/05 2:00	143	0	23.3	19.2	16.7	67	3.60	160	994.92			
9/7/05 3:00	183	0.44704	22.2	18.4	16.1	69	2.06	150	995.26			
9/7/05 4:00	59	0.44704	22.2	18.1	15.6	66	2.57	150	995.26			
9/7/05 5:00	37	0	21.1	18	16.1	73	0.00	0	995.60			
9/7/05 6:00	138	0	22.2	18.4	16.1	69	2.57	170	996.28			
9/7/05 7:00	180	0.89408	23.9	19.4	16.7	64	3.09	170	996.28			
9/7/05 8:00	190	1.78816	26.1	20.1	16.7	56	3.60	170	996.61			
9/7/05 9:00	198	1.34112	27.8	20.3	16.1	49	6.17	180	996.61			
9/7/05 10:00	206	1.34112	28.9	21	16.7	48	4.63	190	996.61			
9/7/05 11:00	202	1.34112	30	21.3	16.7	45	4.12	200	995.94			
9/7/05 12:00	208	1.34112	30.6	21.8	17.2	45	5.14	180	995.26			
9/7/05 13:00	187	1.34112	31.1	21.4	16.1	40	1.54	140	994.58			
9/7/05 14:00	217	1.34112	31.1	21.7	16.7	42	3.60	170	993.90			
9/7/05 15:00	180	1.34112	31.7	21.5	16.1	39	3.09	210	993.57			
9/7/05 16:00	185	0.89408	31.1	20.5	14.4	36	2.06	200	993.23			
9/7/05 17:00	189	0.44704	30.6	20.3	14.4	37	2.06	210	992.89			
9/7/05 18:00	214	0	29.4	20.6	15.6	43	0.00	0	992.55			
9/7/05 19:00	169	0	26.7	20.6	17.2	56	0.00	0	993.23			
9/7/05 20:00	245	0	23.9	20.3	18.3	71	0.00	0	993.57			
9/7/05 21:00	222	0	24.4	20.5	18.3	69	0.00	0	993.90			
9/7/05 22:00	159	0	24.4	20.5	18.3	69	0.00	0	993.57			
9/7/05 23:00	208	0	22.8	20.3	18.9	79	0.00	0	993.57			
9/8/05 0:00	254	0	21.7	19.5	18.3	81	1.54	120	993.57			
9/8/05 1:00	211	0	21.7	19.5	18.3	81	1.54	130	993.57			
9/8/05 2:00	194	0	21.7	19.2	17.8	79	1.54	150	993.57			
9/8/05 3:00	146	0	22.2	19.4	17.8	76	0.00	0	993.57			
9/8/05 4:00	141	0	21.1	19	17.8	82	3.09	150	993.57			
9/8/05 5:00	151	0	21.7	18.2	16.1	71	2.57	170	993.57			
9/8/05 6:00	123	0	21.1	18.4	16.7	76	1.54	130	993.90			
9/8/05 7:00	185	0.89408	23.9	18.8	15.6	60	4.12	170	994.24			
9/8/05 8:00	205	0.89408	26.1	19.2	15	50	4.12	200	994.58			
9/8/05 9:00	215	0.89408	27.2	20.1	16.1	51	4.12	180	994.58			
9/8/05 10:00	222	0.89408	28.9	20.7	16.1	46	5.14	210	994.24			
9/8/05 11:00	228	1.34112	30	20.8	15.6	42	2.57	200	993.57			
9/8/05 12:00	231	1.34112	31.7	21.3	15.6	38	3.09	240	992.55			
9/8/05 13:00	238	1.34112	32.2	21.4	15.6	37	3.60	240	991.87			
9/8/05 14:00	251	1.34112	32.2	21.7	16.1	38	3.60	200	991.20			
9/8/05 15:00	253	1.34112	31.7	21	15	36	3.09	200	990.86			
9/8/05 16:00	214	0.89408	31.7	21.3	15.6	38	3.09	220	990.52			
9/8/05 17:00	205	0.44704	30	21	16.1	43	3.60	190	990.52			
9/8/05 18:00	184	0.44704	28.9	20.4	15.6	44	2.06	200	990.52			
9/8/05 19:00	215	0	25	20	17.2	62	2.06	140	990.86			
9/8/05 20:00	240	0	25.6	20.6	17.8	62	0.00	0	990.86			
9/8/05 21:00	271	0	24.4	20.2	17.8	67	0.00	0	991.20			
9/8/05 22:00	217	0	23.3	20.5	18.9	76	0.00	0	990.86			
9/8/05 23:00	216	0	22.8	20.3	18.9	79	0.00	0	990.86			
9/9/05 0:00	174	0	22.2	19.4	17.8	76	0.00	0	990.86			
9/9/05 1:00	153	0	21.1	19	17.8	82	1.54	140	990.52			
9/9/05 2:00	225	0.44704	22.8	19.9	18.3	76	1.54	180	990.52			
9/9/05 3:00	183	0	21.1	19.3	18.3	84	0.00	0	990.52			
9/9/05 4:00	110	0	21.1	19.3	18.3	84	2.57	200	990.86			
9/9/05 5:00	97	0.44704	20	18.6	17.8	87	2.06	120	991.20			
9/9/05 6:00	199	0	21.1	19	17.8	82	2.06	130	991.53			
9/9/05 7:00	108	0	25	20.4	17.8	64	3.09	180	991.53			
9/9/05 8:00	198	0.44704	27.2	20.5	16.7	53	3.09	160	991.87			
9/9/05 9:00	181	0.89408	28.9	20.4	15.6	44	4.12	160	991.87			
9/9/05 10:00	195	1.34112	30.6	20.9	15.6	40	3.60	180	991.87			
9/9/05 11:00	182	1.78816	31.1	21.1	15.6	39	3.09	180	991.20			
9/9/05 12:00	182	1.78816	32.2	21.4	15.6	37	5.14	170	990.52			
9/9/05 13:00	185	1.78816	31.7	21	15	36	4.12	190	989.84			
9/9/05 14:00	180	2.2352	32.2	21.1	15	35	3.60	190	989.16			
9/9/05 15:00	191	2.2352	32.8	21	14.4	33	4.63	180	988.49			
9/9/05 16:00	165	2.2352	31.7	21	15	36	3.60	160	988.15			
9/9/05 17:00	165	1.34112	29.4	21.1	16.7	46	3.09	120	988.15			
9/9/05 18:00	141	0.44704	28.3	21.1	17.2	51	2.06	120	987.81			
9/9/05 19:00	240	0	27.8	20.6	16.7	51	2.57	110	988.15			
9/9/05 20:00	209	0.44704	26.7	20.3	16.7	54	0.00	0	988.15			
9/9/05 21:00	156	0.44704	27.2	20.1	16.1	51	0.00	0	988.83			
9/9/05 22:00	180	0	25	19.4	16.1	58	1.54	120	988.83			
9/9/05 23:00	230	0	22.8	19	16.7	69	2.06	140	989.16			
9/10/05 0:00	219	0	21.7	18.6	16.7	73	2.06	150	989.16			
9/10/05 1:00	106	0	21.1	18	16.1	73	3.60	130	989.50			
9/10/05 2:00	151	0	21.7	17.6	15	66	3.60	140	989.16			
9/10/05 3:00	216	0.44704	21.1	17.1	14.4	66	2.57	140	989.50			
9/10/05 4:00	77	0	22.2	17.8	15	64	4.12	150	989.84			
9/10/05 5:00	75	0.44704	21.1	17.4	15	68	4.12	150	990.52			
9/10/05 6:00	112	0	21.7	18	15.6	68	3.60	150	990.86			
9/10/05 7:00	143	0	23.9	18.7	15.6	60	5.14	150	990.86			
9/10/05 8:00	171	1.78816	26.1	19.8	16.1	54	5.14	150	991.20			
9/10/05 9:00	187	2.2352	27.8	20.3	16.1	49	6.69	170	991.20			
9/10/05 10:00	181	2.2352	29.4	20.8	16.1	45	6.17	190	990.86			
9/10/05 11:00	179	2.2352	30.6	21.5	16.7	43	6.69	200	990.18			
9/10/05 12:00	181	2.68224	32.2	21.1	15	35	7.20	170	989.50			
9/10/05 13:00	184	2.68224	32.8	21.3	15	34	6.17	180	988.83			
9/10/05 14:00	183	2.2352	32.8	21								

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
9/6/05 3:00	72.8	1.4	2.3	0.9	4.1	0.4	159.8	11.4	0	0	0	986.96
9/6/05 4:00	75.3	1.3	2.2	0.9	4.7	0.5	160.7	12.4	0	0	0	986.95
9/6/05 5:00	76.8	1.5	2.4	0.9	4.3	0.5	157.3	12.1	0.5	0	0	987.14
9/6/05 6:00	78.3	1.7	2.6	0.9	5	0.6	157.3	12.5	54.9	0.2	0	987.65
9/6/05 7:00	76.3	2.2	3	0.8	5.7	0.7	150.2	12.3	226.9	0.82	0	986.26
9/6/05 8:00	72.8	2	2.8	0.8	5.6	0.7	161	15.1	448.7	1.62	0	986.8
9/6/05 9:00	69.6	2.1	2.9	0.8	5	0.7	182.2	16.1	607.2	2.19	0	989.13
9/6/05 10:00	63.1	1.8	2.6	0.7	4.8	0.7	177.8	19.1	730.5	2.63	0	989.06
9/6/05 11:00	59.8	2.1	2.9	0.8	6	0.7	153.3	17.1	814	2.93	0	988.89
9/6/05 12:00	53.4	2.2	3	0.8	5.8	0.8	164.4	15.8	799.8	2.88	0	988.37
9/6/05 13:00	45.4	2.3	3.2	0.9	5.5	0.7	172.9	14.7	791.5	2.85	0	987.9
9/6/05 14:00	45.8	1.6	2.4	0.7	4.5	0.6	144.6	22.1	706.8	2.54	0	987.36
9/6/05 15:00	46.3	0.9	1.6	0.7	3.3	0.4	146.3	15.4	369	1.33	0	987.06
9/6/05 16:00	45	0.4	1.1	0.7	2.4	0.3	125.8	13.1	330.1	1.19	0	986.9
9/6/05 17:00	51.7	0.1	1	0.9	1.7	0.2	72.5	7.7	163	0.59	0	986.68
9/6/05 18:00	68.7	0	0.9	0.9	1.4	0.1	49.5	4.1	18.9	0.07	0	986.7
9/6/05 19:00	71.3	0.1	1.1	1	1.7	0.1	62.6	3.8	-0.8	0	0	987.13
9/6/05 20:00	68.4	0	1.3	1.3	2.3	0.1	84.5	5.3	-0.1	0	0	987.42
9/6/05 21:00	69.9	0	1.1	1.1	1.6	0.1	80.4	3	-0.2	0	0	987.93
9/6/05 22:00	72.6	0.2	1.4	1.2	2	0.1	79.3	2.8	0	0	0	988.34
9/6/05 23:00	69.2	0.6	1.8	1.1	2.8	0.2	83.8	6.4	0	0	0	986.39
9/7/05 0:00	75.4	0.8	2	1.2	3.3	0.2	86.6	6.1	0	0	0	986.39
9/7/05 1:00	73.1	1.3	2.6	1.3	4.1	0.4	115.2	7.6	0	0	0	986.28
9/7/05 2:00	72.2	1.5	2.6	1.1	5.1	0.5	152.8	10.5	0	0	0	988.11
9/7/05 3:00	72.3	1.4	2.4	1	4.5	0.5	141.8	10	0	0	0	988.18
9/7/05 4:00	76.8	1	2	1	3.5	0.4	159.5	12.2	0	0	0	988.3
9/7/05 5:00	75.3	0.6	1.6	1	3.2	0.4	170.6	11.4	0.5	0	0	988.65
9/7/05 6:00	74.4	0.8	1.9	1.1	4.1	0.4	160.4	11.2	44.6	0.16	0	989.16
9/7/05 7:00	68.7	1.6	2.6	1	4.4	0.5	186.6	11.8	193.3	0.7	0	989.42
9/7/05 8:00	63.8	2.2	3.1	0.9	6.9	0.7	157.6	13	378.6	1.36	0	989.65
9/7/05 9:00	58.5	2.8	3.9	1.1	6.2	0.8	164	11.7	558.5	2.01	0	989.86
9/7/05 10:00	53.8	2.6	3.7	1.1	6.1	0.7	172.6	12.9	694.2	2.5	0	989.77
9/7/05 11:00	50.6	2.8	4	1.2	6.4	0.8	171.6	13.9	778.2	2.8	0	989.35
9/7/05 12:00	49.5	2.5	3.6	1	6.3	0.8	161.3	15.1	800.8	2.88	0	988.87
9/7/05 13:00	50.3	2.2	3.1	0.9	6.7	0.9	163.8	17.8	757.1	2.73	0	988.33
9/7/05 14:00	50.1	1.9	2.7	0.8	5.1	0.7	166.5	15.6	664	2.39	0	987.68
9/7/05 15:00	49.5	2.1	3.1	1	4.9	0.6	158.5	12.6	516.9	1.86	0	987.2
9/7/05 16:00	49.8	1.5	2.5	1	4.3	0.5	171.8	10.8	341.1	1.23	0	986.97
9/7/05 17:00	57	0.4	1.4	1.1	3.3	0.2	173.5	7.9	141.2	0.51	0	986.58
9/7/05 18:00	68.5	0	1	1	1.9	0.1	184.5	5.2	13.8	0.05	0	986.27
9/7/05 19:00	71.2	0	0.8	0.8	1.5	0.1	189.3	9.2	-0.5	0	0	986.4
9/7/05 20:00	70.8	0	1	1	1.3	0.1	200.3	3.3	0	0	0	986.84
9/7/05 21:00	64.7	0	0.9	0.9	1.2	0.1	194.6	2.9	0	0	0	987.08
9/7/05 22:00	63.8	0	1	0.9	1.5	0.1	178.3	4.5	0	0	0	987.14
9/7/05 23:00	60.1	0	1.2	1.1	1.6	0.1	172.3	6.9	0	0	0	987.04
9/8/05 0:00	62.8	0	1	1	1.8	0.2	159.9	10.3	0	0	0	986.88
9/8/05 1:00	65	0.1	1.6	1.5	2.8	0.3	155.6	8.8	0	0	0	986.78
9/8/05 2:00	74.8	0.3	1.2	0.9	3.7	0.2	170.5	12.4	0	0	0	986.77
9/8/05 3:00	77.1	0.6	1.8	1.2	3.2	0.3	156.7	9.2	0	0	0	986.74
9/8/05 4:00	73.7	0.9	2	1.1	3.9	0.4	169.6	11.1	0	0	0	986.72
9/8/05 5:00	74.6	1.1	2.2	1.1	4.1	0.5	142.8	12.2	0.4	0	0	986.82
9/8/05 6:00	74.1	1	1.9	0.9	3.8	0.5	173.8	14.5	50.4	0.18	0	987
9/8/05 7:00	69.5	1.6	2.6	0.9	6	0.6	168.8	12.8	204.3	0.74	0	987.34
9/8/05 8:00	65.4	2.1	3.1	1	6.1	0.6	172.5	12.3	395.6	1.42	0	987.71
9/8/05 9:00	61.9	2	2.8	0.8	5	0.5	186.3	12	570.8	2.06	0	987.84
9/8/05 10:00	56	2.3	3.2	0.9	5.4	0.6	187.9	12.2	705.8	2.54	0	987.62
9/8/05 11:00	49.1	2.8	4	1.3	6.1	0.7	185.7	11.6	789.8	2.84	0	987.11
9/8/05 12:00	46.3	2.2	3.1	0.8	5.7	0.7	186.8	13.2	814.7	2.93	0	986.41
9/8/05 13:00	44.8	1.6	2.2	0.6	5	0.6	186.9	18.2	773.3	2.78	0	985.57
9/8/05 14:00	42	1.7	2.4	0.7	6.2	0.7	175	18.2	673.3	2.42	0	984.78
9/8/05 15:00	41.6	1.7	2.4	0.7	4.7	0.7	153.4	17.1	525.8	1.89	0	984.26
9/8/05 16:00	42.7	1.7	2.6	0.9	4.6	0.6	184.3	13.1	343.8	1.24	0	983.95
9/8/05 17:00	49.8	1	1.9	0.9	3.4	0.4	155.6	9.4	154.7	0.56	0	983.72
9/8/05 18:00	58.2	0.5	2	1.5	3	0.3	156.4	7.2	16.3	0.06	0	983.59
9/8/05 19:00	61	0.1	1.8	1.7	2.7	0.3	152	8.3	-0.9	0	0	983.88
9/8/05 20:00	60.9	0.1	1.4	1.3	2.6	0.2	182	9.2	-0.3	0	0	984.12
9/8/05 21:00	67.7	0	1	1	1.7	0.1	200.3	6.4	0	0	0	984.25
9/8/05 22:00	68	0.1	1.2	1.1	2	0.2	176.5	8.1	0	0	0	984.23
9/8/05 23:00	67.6	0	1.3	1.2	1.8	0.1	192.8	4.8	0	0	0	984.05
9/9/05 0:00	70.9	0	1.2	1.2	1.9	0.1	194.4	2.7	0	0	0	983.89
9/9/05 1:00	70.8	0	1.3	1.3	2	0.1	191.8	4.6	0	0	0	983.8
9/9/05 2:00	79.2	0.1	1.2	1.2	2.8	0.2	210.6	6.7	0	0	0	983.58
9/9/05 3:00	81.5	0	0.8	0.8	2.3	0.2	184	12.2	0	0	0	983.56
9/9/05 4:00	75.9	0.1	1.2	1.1	3.4	0.3	149.8	12	0	0	0	983.62
9/9/05 5:00	73.8	1.2	2.4	1.3	5.2	0.4	210.3	9.4	0.3	0	0	984
9/9/05 6:00	77.1	0.1	1	0.8	2.2	0.1	178.7	8.8	45.2	0.16	0	984.26
9/9/05 7:00	70.4	0.3	1	0.7	2.5	0.3	138.3	16.2	205.1	0.74	0	984.5
9/9/05 8:00	59.2	1.3	2	0.7	3.8	0.5	184.8	14.7	397.8	1.43	0	984.87
9/9/05 9:00	55.2	1.7	2.4	0.7	4.1	0.5	169.4	12.8	571.6	2.06	0	985.07
9/9/05 10:00	49.8	1.9	2.8	0.8	5.7	0.7	161.7	14.6	708.3	2.55	0	985.15
9/9/05 11:00	42.5	2.4	3.3	0.9	7.1	0.8	152.4	16.1	791.8	2.85	0	984.68
9/9/05 12:00	40.6	2.4	3.4	1	5.6	0.8	170.4	16	813	2.93	0	984.05
9/9/05 13:00	39.1	2.5	3.5	1	6.1	0.8	153	16.4	775.1	2.79	0	983.52
9/9/05 14:00	37.3	3	4.3	1.3	7.3	1	154.8	13.6	684.1	2.46	0	982.74
9/9/05 15:00	38.3	2.5	3.5	1.1	6.9	0.9	153.5	14.8	533.2	1.92	0	982.18
9/9/05 16:00	38.1	1.9	2.8	0.9	6.5	0.7	170.5	15.9	346.4	1.25	0	981.74
9/9/05 17:00	44.7	0.2	1.1	0.9	3.4	0.2	187.8	11.3	151.8	0.55	0	981.56
9/9/05 18:00	52.9	0	1.3	1.3	2.4	0.2	132.4	9.8	15.7	0.06	0	981.45
9/9/05 19:00	58.3	0	1.2	1.2	1.8	0.1	157.3	6.1	-0.5	0	0	981.54
9/9/05 20:00	59.2	0	1.1	1.1	1.9	0.1	163.3	5.3	0	0	0	981.64
9/9/05 21:00	67.7	0	1	1	1.8	0.1	231.5	4.9	0	0	0	981.92
9/9/05 22:00	70.5	0	0.7	0.7	1	0.1	180.2	2.3	0	0	0	982.05
9/9/05 23:00	69.9	0.2	1.2	0.9	2.2	0.1	96.8	9.4	0	0	0	982.11
9/10/05 0:00	68.8	1	2.4	1.4	3.6	0.3	145.6	7.1	0	0	0	982.22
9/10/05 1:00	74.5	1.3	2.5	1.3	4.1	0.3	145.8	8	0	0	0	982.44
9/10/05 2:00	74.9	1.7	2.9	1.3	5.8	0.5	143.9	9.1	0	0	0	982.51
9/10/05 3:00	68.8	1.9	3.2	1.3	5.5	0.6	143.3	9.9	0	0	0	982.59
9/10/05 4:00	72.7	1.3	2.5	1.2	3.9	0.3	143.3	7.8	0	0	0	982.88
9/10/05 5:00	73.6	1.3	2.6	1.3	3.9	0.4	142.2	8.1	0.3	0	0	983.27
9/10/05 6:00	73.2	2	3.2	1.2	5.5	0.5	146.3	9.8	46.7	0.17	0	983.65
9/10/05 7:00	68	2.4	3.5	1	6	0.8	151.8</					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK			1127										
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
9/10/05 18:00	0.07211	30.2	1.6	1.8	0	5.4	0.051	0.001	0.015	0.017	37.5	28.89	48	
9/10/05 19:00	0.06434	28	2.2	1.3	0	4	0.012	0.006	0.039	0.046	39.8	25.56	65	
9/10/05 20:00	0.06567	27.1	0.7	0.4	0	2.2	0.003	0.014	0.038	0.052	39.9	23.33	76	
9/10/05 21:00	0.0616	26.9	0.9	1.8	202.5	3.6	0	0.022	0.031	0.053	38.9	21.67	82	
9/10/05 22:00	0.07065	26.6	0.6	1.3	112.5	3.6	0	0.02	0.027	0.047	39.1	21.11	85	
9/10/05 23:00	0.06766	26.6	0.8	2.2	190	6.3	0	0.029	0.022	0.051	38.8	20.56	88	
9/11/05 0:00	0.06628	26.9	0.9	6.7	202.5	11.6	0	0.035	0.018	0.052	37.6	20.00	90	
9/11/05 1:00	0.05263	26	1.1	11.2	202.5	14.3	0.026	0.008	0.016	0.024	39.2	21.67	70	
9/11/05 2:00	0.05257	25.1	1.5	11.6	202.5	14.8	0.044	0	0.007	0.007	37.8	22.78	62	
9/11/05 3:00	0.06248	24.8	0.7	11.6	202.5	15.2	0.023	0.001	0.014	0.015	39.6	21.67	70	
9/11/05 4:00	0.05466	24.4	0.7	10.3	202.5	13.9	0.014	0.001	0.012	0.012	40	20.00	80	
9/11/05 5:00	0.05933	24.1	0.3	10.7	202.5	13.9	0.01	0.002	0.012	0.014	38.5	19.44	82	
9/11/05 6:00	0.05791	23.7	1.1	9.8	202.5	13	0.024	0.003	0.012	0.015	40.7	21.67	72	
9/11/05 7:00	0.05492	23.2	0.3	6.3	180	12.5	0.035	0.001	0.009	0.009	45.1	23.33	66	
9/11/05 8:00	0.05052	23	0.8	5.8	180	10.7	0.042	0.001	0.007	0.008	43.1	25.00	61	
9/11/05 9:00	0.04883	23.7	1	5.8	202.5	11.6	0.043	0.001	0.007	0.008	40.8	26.11	62	
9/11/05 10:00	0.04476	24.9	1.1	3.6	202.5	8.9	0.042	0.001	0.006	0.007	34.6	26.67	64	
9/11/05 11:00	0.04071	25.7	1.3	3.1	202.5	8.5	0.038	0.001	0.007	0.007	32.9	26.67	66	
9/11/05 12:00	0.04143	25.1	0.6	3.6	180	8.5	0.036	0.001	0.007	0.008	30.5	26.67	66	
9/11/05 13:00	0.03993	25.4	0.7	4	180	10.7	0.041	0.001	0.006	0.007	29.1	27.78	64	
9/11/05 14:00	0.04314	27	1.5	3.1	202.5	8.9	0.045	0.001	0.006	0.006	31.3	28.33	63	
9/11/05 15:00	0.04721	27.1	0.7	2.7	112.5	6.7	0.043	0.001	0.009	0.009	32.7	27.78	64	
9/11/05 16:00	0.04046	27	1	3.1	202.5	7.2	0.035	0.001	0.014	0.015	32	28.33	66	
9/11/05 17:00	0.04089	27.1	0.5	2.7	180	6.7	0.034	0.002	0.013	0.015	28.3	28.33	63	
9/11/05 18:00	0.04371	27	1	2.2	0	6.3	0.033	0.002	0.011	0.012	28.1	27.22	67	
9/11/05 19:00	0.02983	25.7	1.3	1.3	0	4.5	0.004	0.019	0.029	0.048	28.3	25.00	80	
9/11/05 20:00	0.02803	25.4	0.7	1.3	180	4	0	0.049	0.027	0.076	33.4	23.89	86	
9/11/05 21:00	0.03136	25.8	0.3	3.1	180	4.9	0	0.034	0.02	0.055	31	22.78	89	
9/11/05 22:00	0.04381	26	0.3	2.7	180	5.4	0	0.022	0.019	0.041	29.3	22.78	90	
9/11/05 23:00	0.04763	26	0.9	0.9	180	4	0	0.015	0.015	0.031	29.1	22.78	90	
9/12/05 0:00	0.05371	26.2	0.8	3.1	180	6.3	0	0.017	0.013	0.031	27.5	21.67	92	
9/12/05 1:00	0.05247	26	0.4	5.4	202.5	7.2	0	0.015	0.013	0.028	27.2	21.67	94	
9/12/05 2:00	0.05312	25.6	0.8	7.6	202.5	9.8	0	0.011	0.017	0.027	29.6	21.67	94	
9/12/05 3:00	0.0472	24.9	0.9	8.5	202.5	12.5	0.012	0.002	0.011	0.013	29.4	21.67	91	
9/12/05 4:00	0.04214	23.7	0.9	9.4	202.5	13	0.032	0	0.006	0.006	43.9	23.33	76	
9/12/05 5:00	0.04548	23.5	1	10.7	202.5	14.3	0.027	0	0.012	0.012	43.8	23.33	74	
9/12/05 6:00	0.03802	22.7	0.6	6.3	202.5	11.2	0.013	0.001	0.025	0.027	50.4	22.78	77	
9/12/05 7:00	0.03742	22.8	0.5	4.5	180	8.9	0.014	0.003	0.024	0.028	47.2	23.89	74	
9/12/05 8:00	0.03621	23.2	0.8	3.1	180	9.4	0.027	0.004	0.019	0.022	46.6	25.56	68	
9/12/05 9:00	0.04073	24.2	1.4	3.6	180	13	0.042	0.002	0.011	0.012	40.1	27.78	63	
9/12/05 10:00	0.04852	26.2	2.6	3.6	180	9.8	0.05	0.001	0.007	0.009	37.3	28.89	58	
9/12/05 11:00	0.05079	27.3	3	4	180	10.7	0.058	0.001	0.005	0.006	34.8	30.56	52	
9/12/05 12:00	0.05836	30.2	3.9	5.8	180	12.5	0.063	0.001	0.004	0.005	38.4	31.11	46	
9/12/05 13:00	0.06639	30.1	2.5	6.7	180	13.9	0.066	0.001	0.004	0.005	37.7	32.22	41	
9/12/05 14:00	0.06791	31.2	1.4	6.7	202.5	13.9	0.066	0.001	0.005	0.005	37.6	32.22	37	
9/12/05 15:00	0.06506	31.2	1.5	8	202.5	13.9	0.065	0.001	0.005	0.006	39.5	32.22	36	
9/12/05 16:00	0.06305	30.7	1.4	6.3	202.5	12.1	0.062	0.001	0.006	0.007	37.6	32.22	37	
9/12/05 17:00	0.06207	29.8	0.7	6.3	180	12.1	0.054	0.001	0.009	0.01	30.5	31.67	38	
9/12/05 18:00	0.05218	29.3	1	3.6	180	8.5	0.046	0	0.013	0.013	28.6	29.44	44	
9/12/05 19:00	0.05149	28.1	1.1	4.9	180	8.9	0.036	0	0.017	0.017	32.5	27.22	53	
9/12/05 20:00	0.04932	27.4	0.6	6.3	180	10.3	0.044	0	0.012	0.012	30.7	27.22	56	
9/12/05 21:00	0.05722	27.2	0.5	8	180	13	0.041	0	0.013	0.013	31.6	27.22	57	
9/12/05 22:00	0.04363	26.6	0.8	9.4	180	14.8	0.033	0	0.012	0.013	24.3	26.67	61	
9/12/05 23:00	0.0364	25.4	1.2	8.9	202.5	13.9	0.036	0	0.004	0.004	22.5	26.11	65	
9/13/05 0:00	0.03567	25	0.4	9.4	202.5	14.3	0.03	0	0.009	0.009	23.7	25.56	68	
9/13/05 1:00	0.03322	24.7	0.4	9.4	202.5	13.4	0.023	0	0.008	0.008	20.9	25.56	71	
9/13/05 2:00	0.03281	24.3	0.2	9.4	180	14.3	0.029	0	0.008	0.008	22.8	25.00	73	
9/13/05 3:00	0.0319	23.9	0.5	9.8	180	14.3	0.029	0	0.006	0.007	21.7	24.44	75	
9/13/05 4:00	0.02898	23.4	0.5	8.9	180	14.3	0.024	0	0.01	0.01	22.8	24.44	77	
9/13/05 5:00	0.02664	23.2	0.3	8.9	180	15.2	0.02	0	0.012	0.012	23.3	24.44	78	
9/13/05 6:00	0.02433	23.1	0.4	7.6	180	13.9	0.013	0.002	0.017	0.019	23.9	24.44	79	
9/13/05 7:00	0.02216	22.9	0.2	7.2	180	14.3	0.018	0.003	0.013	0.016	22.5	26.11	75	
9/13/05 8:00	0.021	23.4	1.1	6.7	180	14.8	0.023	0.003	0.009	0.012	19.5	27.78	68	
9/13/05 9:00	0.02507	25.1	3.9	4.5	180	13.9	0.029	0.003	0.007	0.01	20.3	30.00	61	
9/13/05 10:00	0.02574	28.7	2.9	4	0	10.7	0.035	0.002	0.005	0.007	17.2	31.67	56	
9/13/05 11:00	0.03505	30.6	3.2	4.5	180	11.6	0.04	0.001	0.004	0.005	17.1	32.78	53	
9/13/05 12:00	0.0365	32.3	2.2	4.9	180	12.1	0.041	0.001	0.003	0.004	16	33.33	51	
9/13/05 13:00	0.03792	33.8	3.7	3.6	180	8.9	0.041	0.001	0.004	0.005	20.4	33.89	48	
9/13/05 14:00	0.03936	32.8	3.2	5.4	180	13	0.043	0.001	0.004	0.006	18.4	34.44	47	
9/13/05 15:00	0.04092	32.8	2.3	7.2	202.5	12.5	0.044	0.001	0.005	0.006	19.3	33.89	47	
9/13/05 16:00	0.04167	31.9	1.3	7.6	202.5	13.9	0.043	0.001	0.005	0.006	17.5	33.89	46	
9/13/05 17:00	0.0426	31.2	1.2	6.3	180	13.9	0.041	0	0.006	0.006	33.8	33.33	48	
9/13/05 18:00	0.04016	30.6	1	5.8	180	12.1	0.027	0.001	0.017	0.017	18.4	31.11	53	
9/13/05 19:00	0.03548	29.7	0.5	9.4	180	16.1	0.025	0	0.019	0.02	16.1	30.56	55	
9/13/05 20:00	0.03797	29.4	0.4	6.7	180	14.3	0.033	0	0.012	0.013	21.2	30.56	55	
9/13/05 21:00	0.04089	29.1	0.7	6.7	180	12.5	0.029	0.001	0.017	0.017	18.7	29.44	57	
9/13/05 22:00	0.04062	28.4	0.8	8.5	180	14.3	0.036	0	0.01	0.01	1	26.67	64	
9/13/05 23:00	0.03935	25.8	8.5	7.2	180	23.2	0.036	0	0.003	0.003	23	21.11	92	
9/14/05 0:00	0.03563	20.9	1.6	2.7	180	8	0.025	0	0.005	0.005	9.5	20.56	94	
9/14/05 1:00	0.03822	21.8	1.7	0.9	292.5	3.1	0.018	0.001	0.008	0.009	13.6	20.56	95	
9/14/05 2:00	0.03912	23.2	0.7	1.3	292.5	4.5	0.011	0.001	0.012	0.012	11	20.56	95	
9/14/05 3:00	0.03159	22.7	1.3	0.4	180	1.8	0.015	0.001	0.006	0.007	10.6	20.56	95	
9/14/05 4:00	0.01727	20.9	1.8	2.7	22.5	6.7	0.016	0.001	0.006	0.007	12.4	20.56	94	
9/14/05 5:00	0.02457	20.6	0.5	2.2	22.5	7.6	0.01	0.003	0.01	0.013	8.9	20.00	93	
9/14/05 6:00	0.0188	20.4	0.6	1.3	270	4.5	0.007	0.002	0.012	0.015	12.5	20.00	93	
9/14/05 7:00	0.0167	20.6	1	1.3	247.5	4	0.007							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,BM} (°C)	
9/10/05 18:00	247	0.44704	30	20.7	15.6	42	2.06	170	988.15			
9/10/05 19:00	159	0	27.8	20.6	16.7	51	0.00	0	988.83			
9/10/05 20:00	199	0	26.7	20.3	16.7	54	0.00	0	988.83			
9/10/05 21:00	235	0	22.8	19.6	17.8	74	2.06	120	989.16			
9/10/05 22:00	189	0.44704	23.3	18.8	16.1	64	2.57	150	989.50			
9/10/05 23:00	218	0	22.8	18.4	15.6	64	2.57	150	989.50			
9/11/05 0:00	150	0	24.4	18.3	14.4	54	3.60	150	989.50			
9/11/05 1:00	186	0.89408	22.8	17.7	14.4	59	3.09	140	989.84			
9/11/05 2:00	188	0.44704	21.7	17.6	15	66	2.57	150	990.18			
9/11/05 3:00	75	0.44704	22.8	17.7	14.4	59	3.60	140	990.18			
9/11/05 4:00	80	0.44704	22.2	17.8	15	64	3.60	150	990.86			
9/11/05 5:00	63	0	22.2	18.1	15.6	66	3.09	150	991.53			
9/11/05 6:00	149	0.44704	23.3	18.5	15.6	62	3.60	140	991.87			
9/11/05 7:00	165	0.89408	23.9	19	16.1	62	4.12	150	992.55			
9/11/05 8:00	167	1.78816	25.6	19.9	16.7	58	5.14	160	992.55			
9/11/05 9:00	170	1.78816	26.7	21.2	18.3	60	4.12	170	992.55			
9/11/05 10:00	172	1.78816	27.2	22	19.4	62	4.12	180	992.55			
9/11/05 11:00	168	1.78816	27.2	22.4	20	65	5.66	150	992.55			
9/11/05 12:00	165	1.78816	27.2	22.4	20	65	4.12	160	992.21			
9/11/05 13:00	163	2.2352	28.3	23.1	20.6	63	5.66	170	991.20			
9/11/05 14:00	165	1.78816	27.2	22.7	20.6	67	3.09	140	990.86			
9/11/05 15:00	165	1.34112	27.8	22.6	20	63	2.57	150	990.52			
9/11/05 16:00	190	0.44704	28.3	23.4	21.1	65	0.00	0	990.52			
9/11/05 17:00	209	0.44704	28.3	23.1	20.6	63	1.54	200	989.84			
9/11/05 18:00	263	0.44704	27.8	22.9	20.6	65	1.54	210	989.50			
9/11/05 19:00	172	0	26.1	23.1	21.7	77	0.00	0	989.84			
9/11/05 20:00	199	0	26.1	23.1	21.7	77	1.54	270	990.18			
9/11/05 21:00	229	0	25	22.4	21.1	79	0.00	0	990.86			
9/11/05 22:00	205	0	23.9	22.4	21.7	88	0.00	0	990.86			
9/11/05 23:00	146	0	22.8	21.7	21.1	90	2.06	120	990.52			
9/12/05 0:00	147	0	23.9	22	21.1	84	2.06	150	990.52			
9/12/05 1:00	215	0	23.3	21.5	20.6	85	2.06	130	990.18			
9/12/05 2:00	184	0	22.8	21	20	84	3.09	140	989.84			
9/12/05 3:00	192	0.44704	23.9	20.7	18.9	74	3.60	150	989.84			
9/12/05 4:00	187	1.34112	23.3	20.1	18.3	74	3.09	150	990.18			
9/12/05 5:00	211	0.44704	23.3	20.1	18.3	74	3.09	190	991.20			
9/12/05 6:00	205	0.44704	23.9	20.3	18.3	71	2.57	170	991.53			
9/12/05 7:00	202	0.89408	25	20.7	18.3	66	4.63	170	991.53			
9/12/05 8:00	197	1.34112	26.1	21.7	19.4	67	3.60	180	991.53			
9/12/05 9:00	201	1.78816	28.3	22.7	20	61	6.17	180	991.53			
9/12/05 10:00	205	1.78816	28.3	22.1	18.9	57	5.66	190	991.20			
9/12/05 11:00	202	2.2352	30.6	22.1	17.8	46	8.23	210	990.52			
9/12/05 12:00	206	2.2352	31.1	21.9	17.2	43	6.69	200	989.50			
9/12/05 13:00	196	2.2352	32.2	22	16.7	39	7.72	210	988.83			
9/12/05 14:00	196	3.12928	31.7	21.3	15.6	38	6.17	210	987.81			
9/12/05 15:00	194	2.68224	32.2	21.4	15.6	37	7.20	180	986.79			
9/12/05 16:00	201	2.2352	31.7	21.5	16.1	39	7.20	200	986.45			
9/12/05 17:00	204	1.34112	30.6	20.9	15.6	40	4.63	200	986.12			
9/12/05 18:00	196	0.89408	29.4	20.8	16.1	45	3.60	190	985.78			
9/12/05 19:00	206	0.44704	28.3	20.8	16.7	49	2.57	190	986.12			
9/12/05 20:00	204	0.89408	27.8	20.9	17.2	53	3.60	190	986.79			
9/12/05 21:00	212	1.34112	28.3	21.7	18.3	55	6.17	190	986.79			
9/12/05 22:00	204	1.78816	27.2	21.4	18.3	58	7.20	180	986.45			
9/12/05 23:00	204	1.34112	26.1	21.4	18.9	65	5.66	180	986.12			
9/13/05 0:00	200	1.34112	26.1	21.7	19.4	69	5.14	180	985.78			
9/13/05 1:00	202	1.34112	26.6	21.5	19.4	69	5.14	180	985.44			
9/13/05 2:00	204	1.34112	25	21.3	19.4	71	6.17	170	985.44			
9/13/05 3:00	204	1.34112	25	21.7	20	74	4.63	180	985.44			
9/13/05 4:00	198	1.34112	24.4	21.5	20	77	4.63	180	985.44			
9/13/05 5:00	199	1.34112	24.4	21.9	20.6	79	5.14	180	985.44			
9/13/05 6:00	197	1.34112	24.4	21.9	20.6	79	5.66	170	985.78			
9/13/05 7:00	199	1.78816	26.1	22.7	21.1	74	7.20	180	985.44			
9/13/05 8:00	207	1.78816	28.3	23.7	21.7	67	5.66	210	985.44			
9/13/05 9:00	213	2.2352	30	23.9	21.1	59	7.72	210	985.44			
9/13/05 10:00	208	2.2352	31.7	24.7	21.7	55	6.17	190	985.10			
9/13/05 11:00	203	1.78816	31.7	24.7	21.7	55	6.17	200	984.76			
9/13/05 12:00	208	1.78816	33.3	25.4	22.2	52	6.69	210	984.42			
9/13/05 13:00	206	1.78816	33.3	25.1	21.7	51	8.75	190	983.41			
9/13/05 14:00	198	2.2352	33.9	24.9	21.1	47	7.72	180	982.73			
9/13/05 15:00	200	2.68224	33.9	24.9	21.1	47	7.72	190	982.39			
9/13/05 16:00	209	1.78816	33.3	24.7	21.1	49	7.20	190	982.05			
9/13/05 17:00	206	1.78816	32.2	24.1	20.6	50	5.14	200	981.38			
9/13/05 18:00	202	1.78816	31.7	23.7	20	50	6.17	190	980.70			
9/13/05 19:00	206	0.89408	31.7	23.7	20	50	4.12	180	982.39			
9/13/05 20:00	204	0.89408	31.1	23.5	20	52	4.63	170	983.07			
9/13/05 21:00	203	1.34112	30.6	23.4	20	53	4.63	170	983.07			
9/13/05 22:00	156	3.12928	23.3	20.4	18.9	76	11.83	340	986.45			
9/13/05 23:00	92	2.2352	21.7	21.3	21.1	96	3.09	100	985.10			
9/14/05 0:00	222	0.44704	21.7	21.3	21.1	96	3.09	170	984.08			
9/14/05 1:00	250	0.44704	21.7	21.3	21.1	96	2.57	170	983.75			
9/14/05 2:00	136	0.89408	21.1	20.8	20.6	97	2.06	40	984.76			
9/14/05 3:00	48	1.78816	20.6	19.8	19.4	93	2.57	30	985.44			
9/14/05 4:00	88	0.44704	20.6	19.1	18.3	87	2.57	60	985.44			
9/14/05 5:00	101	0.89408	20.6	19.5	18.9	90	4.63	50	984.42			
9/14/05 6:00	250	0.44704	20.6	19.5	18.9	90	2.06	300	986.79			
9/14/05 7:00	98	1.78816	20.6	19.8	19.4	93	5.66	360	987.47			
9/14/05 8:00	64	3.12928	21.1	20	19.4	90	5.14	350	988.49			
9/14/05 9:00	54	2.68224	22.8	21	20	84	4.63	20	988.83			
9/14/05 10:00	43	3.12928	25	21.7	20	74	4.12	50	989.49			
9/14/05 11:00	48	2.68224	26.1	22.4	20.6	72	2.06	40	988.15			
9/14/05 12:00	72	1.78816	26.1	22.4	20.6	72	2.57	130	987.47			
9/14/05 13:00	121	1.34112	26.7	22.6	20.6	69	4.63	130	986.45			
9/14/05 14:00	139	1.78816	27.2	22.7	20.6	67	4.12	130	986.45			
9/14/05 15:00	147	1.78816	28.3	23.4	21.1	65	4.63	150	986.12			
9/14/05 16:00	160	1.78816	27.2	23	21.1	69	4.63	130	985.78			
9/14/05 17:00	140	1.78816	26.1	22.7	21.1	74	4.12	120	985.44			
9/14/05 18:00	132	1.34112	25	22.4	21.1	79	4.12	120	985.44			
9/14/05 19:00	121	1.34112	23.9	22.4	21.7	88	2.06	110	985.44			
9/14/05 20:00	126	1.34112	23.9	22	21.1	84	3.60	120	985.44			
9/14/05 21:00	171	0.89408	23.9	22	21.1	84	1.54	210	986.45			
9/14/05 22:00	269	3.12928	20	19.3	18.9	93	7.20	290	989.50			
9/14/05 23:00	148	0.89408	20	19.6	19.4	96	4.12	80	987.13			
9/15/05 0:00	182	1.34112	20	19.3	18.9	93	4.63	160	985.10			
9/15/05 1:00	109	0.89408	20	19.3	18.9	93	2.06	90	985.10			
9/15/05 2:00	146	0.89408	20.6	19.5	18.9	90						

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{ROT} (%)	PCPN (in)	P _{ABS} (hPa)
9/10/05 18:00	59.8	0.1	1	0.9	2.6	0.2	170.2	6.8	15.8	0.06	0	981.63
9/10/05 19:00	62.9	0.1	1.3	1.2	2.5	0.2	124.8	7.1	-0.7	0	0	981.98
9/10/05 20:00	57.5	0	1.4	1.4	2.3	0.1	136.6	4	0	0	0	982.27
9/10/05 21:00	57.3	0.1	1.5	1.5	5.7	0.2	143.8	6.4	0	0	0	982.24
9/10/05 22:00	63.1	0.6	2.3	1.6	4.3	0.3	113.9	8.6	0	0	0	982.44
9/10/05 23:00	56.8	1.3	2.6	1.3	4.1	0.4	145	9.5	0	0	0	982.48
9/11/05 0:00	64.9	1.2	2.4	1.2	4	0.4	141.6	9.2	0	0	0	982.65
9/11/05 1:00	66.8	0.9	2.1	1.2	3.3	0.3	145.1	8.2	0	0	0	982.87
9/11/05 2:00	66.7	1.2	2.3	1.1	4	0.4	152.1	9.9	0	0	0	983.17
9/11/05 3:00	69.7	1.1	2.3	1.2	3.9	0.3	142.5	8.4	0	0	0	983.32
9/11/05 4:00	70.1	1.4	2.6	1.2	4.1	0.4	143.3	9.2	0	0	0	983.62
9/11/05 5:00	71.3	1.5	2.7	1.2	4.1	0.4	130.5	8.6	0.2	0	0	984.22
9/11/05 6:00	70.8	1.9	3	1.1	5.1	0.6	137.9	10.1	12.9	0.05	0	984.73
9/11/05 7:00	69.8	2.1	3.1	1	5.5	0.7	145.9	10.8	131.7	0.47	0	985.31
9/11/05 8:00	67	2.4	3.3	0.9	5.5	0.7	150.1	13	282.4	1.02	0	985.77
9/11/05 9:00	65.5	2.5	3.4	1	5.7	0.8	149.9	12.7	302.4	1.09	0	985.89
9/11/05 10:00	65.3	2.6	3.6	1	6.4	0.8	155.5	14.5	450.6	1.62	0	985.87
9/11/05 11:00	68.3	2.4	3.4	0.9	6.6	0.8	155.9	13	271	0.98	0	985.82
9/11/05 12:00	67.8	2.7	3.8	1.1	7.6	0.9	152.3	13.9	415.3	1.49	0	985.47
9/11/05 13:00	65.9	2.8	3.8	1	7	1	160.9	15.7	508.3	1.83	0	984.78
9/11/05 14:00	67.9	2.1	3	0.9	5.3	0.7	153	13.9	238.2	0.86	0	984
9/11/05 15:00	70.2	1.3	2	0.7	4.6	0.5	153.5	13.5	88.3	0.32	0	983.87
9/11/05 16:00	74.4	0.5	1.4	0.8	2.7	0.3	180.8	11	56.7	0.2	0	983.86
9/11/05 17:00	77.4	0	0.9	0.9	2	0.2	204.3	9.7	79.8	0.29	0	983.43
9/11/05 18:00	83.7	0	0.6	0.6	1	0.1	131.6	8.3	9.4	0.03	0	982.86
9/11/05 19:00	89.3	0	0.2	0.2	1	0.1	72.7	1.9	-1	0	0	982.89
9/11/05 20:00	90.9	0	0.4	0.4	1.5	0.1	168.8	6.3	0	0	0	983.4
9/11/05 21:00	92.7	0	1.2	1.2	1.7	0.1	222.2	3.8	0	0	0	983.96
9/11/05 22:00	92.5	0	1.1	1.1	2	0.1	216.9	4	0	0	0	984.02
9/11/05 23:00	90.2	0	1.1	1.1	1.8	0.1	167.6	6.1	0	0	0	983.74
9/12/05 0:00	91.9	0	1.5	1.5	3.3	0.2	132.3	8.1	0	0	0	983.61
9/12/05 1:00	90.7	1.2	2.2	1	4.2	0.4	156.4	11.2	0	0	0	983.33
9/12/05 2:00	86.3	2	3	1	5.1	0.6	153.7	12.1	0	0	0	983.02
9/12/05 3:00	88.3	1.7	2.8	1	4.9	0.5	142.6	9.8	0	0	0	982.83
9/12/05 4:00	87.5	1.2	2.3	1.1	4.5	0.4	160.5	10	-0.1	0	0	983.05
9/12/05 5:00	87.5	0.5	1.7	1.2	3.2	0.2	175.1	8.8	0.3	0	0	983.91
9/12/05 6:00	82.3	1.2	2.1	0.9	4.1	0.5	154.1	11.2	22.7	0.08	0	984.27
9/12/05 7:00	80.2	1	1.8	0.8	4.1	0.5	174.8	14.5	86.3	0.31	0	984.43
9/12/05 8:00	77.5	1.7	2.5	0.8	4.5	0.6	182.1	12.8	198.3	0.71	0	984.49
9/12/05 9:00	74.8	2.1	3.1	1	6	0.7	164.3	12.6	25.1	0.9	0	984.5
9/12/05 10:00	69.1	2.7	4	1.3	7.3	0.8	171.6	12.1	458.3	1.65	0	984.27
9/12/05 11:00	58.9	3.8	5.4	1.6	9.2	1	169.8	14.3	786.8	2.83	0	983.78
9/12/05 12:00	53.3	4.5	6.4	1.9	11	1.4	173.2	12.9	780.8	2.81	0	983.05
9/12/05 13:00	48.4	4.3	6.1	1.8	10.5	1.4	162.8	13.3	727.6	2.62	0	982.2
9/12/05 14:00	44.8	4.4	6.4	1.9	12.4	1.4	169.4	12.3	674.3	2.43	0	981.19
9/12/05 15:00	43	3.9	5.6	1.7	10.4	1.3	170.5	13.1	516.3	1.86	0	980.47
9/12/05 16:00	45	3.3	4.9	1.6	9.7	1.1	169.1	12.2	333.8	1.2	0	980
9/12/05 17:00	48.8	2.2	3.4	1.3	6.1	0.7	169	10.3	148	0.53	0	979.65
9/12/05 18:00	56.6	1.1	2.4	1.3	3.7	0.3	158.5	8.1	14.1	0.05	0	979.11
9/12/05 19:00	62.9	0.5	2.2	1.7	3.5	0.3	161.5	7.4	-1	0	0	979.25
9/12/05 20:00	65.6	0.9	2.6	1.8	4.3	0.4	169	7.3	-0.2	0	0	979.7
9/12/05 21:00	66	1.7	3.1	1.4	5	0.5	169.6	8.1	0	0	0	979.85
9/12/05 22:00	67.3	3	4.4	1.5	7.7	0.8	163.9	10.4	0	0	0	979.57
9/12/05 23:00	70.5	2.5	3.9	1.4	6.9	0.7	164.6	9.9	-0.3	0	0	979.29
9/13/05 0:00	79	2.7	4.3	1.3	6.2	0.7	166	10	-0.4	0	0	978.97
9/13/05 1:00	77.2	2.1	3.4	1.3	5.6	0.5	167.3	9.7	-0.4	0	0	978.71
9/13/05 2:00	79.7	2.1	3.3	1.2	5.2	0.6	162.6	9.2	-0.1	0	0	978.51
9/13/05 3:00	82.1	2.3	3.6	1.3	6	0.6	164.8	10.1	0	0	0	978.31
9/13/05 4:00	83.9	2.1	3.2	1.1	5.5	0.6	161.8	10.6	0	0	0	978.3
9/13/05 5:00	83.9	2.5	3.7	1.3	7.2	0.8	167.4	11	0.3	0	0	978.37
9/13/05 6:00	82.8	3.2	4.8	1.7	8.8	1	170	10.1	46	0.17	0	978.59
9/13/05 7:00	79.4	3.4	4.9	1.5	7.7	0.9	166.9	11.6	189.2	0.68	0	978.58
9/13/05 8:00	74.7	3.7	5.4	1.7	9.7	1.1	175.9	11.6	396.7	1.43	0	978.3
9/13/05 9:00	68.3	4.1	6	1.8	9.7	1.1	173.2	11.6	580.7	2.09	0	978.26
9/13/05 10:00	62.2	4.1	5.9	1.8	10	1.1	174.9	12.3	713.9	2.57	0	978.15
9/13/05 11:00	57.3	3.7	5.3	1.6	9.7	1.1	179.1	12.1	795.6	2.86	0	977.96
9/13/05 12:00	53.8	3.2	4.6	1.4	8.6	1.1	179.3	13.2	667.8	2.4	0	977.64
9/13/05 13:00	52.3	3.8	5.4	1.6	9.9	1.2	159.5	14.4	653.9	2.35	0	976.8
9/13/05 14:00	50.4	4.3	6.1	1.8	10	1.3	161.7	12.8	671.2	2.42	0	976.1
9/13/05 15:00	51	3.8	5.4	1.5	11.7	1.3	161	13.8	506.5	1.82	0	975.79
9/13/05 16:00	52.5	3.9	5.6	1.7	10.1	1.3	164.8	12.3	309.8	1.12	0	975.43
9/13/05 17:00	54.8	3.7	5.3	1.6	9.1	1	165.8	11	146.8	0.53	0	974.85
9/13/05 18:00	61.4	2.4	3.7	1.3	7.2	0.7	156.8	10.2	12.1	0.04	0	974.25
9/13/05 19:00	62.9	1.9	3	1.2	5.5	0.6	177.3	11.3	-0.9	0	0	975.26
9/13/05 20:00	61.2	1.7	2.8	1.1	5.8	0.6	151.1	12.5	-0.7	0	0	976.17
9/13/05 21:00	66.3	2.4	3.5	1.1	8.2	0.8	101.5	15.3	-1	0	0	977.11
9/13/05 22:00	90.2	3.1	4.5	1.4	10.3	1.3	221.3	22.7	-0.6	0	1.37	979.03
9/13/05 23:00	95.3	1.1	2.1	1	4.3	0.5	115	18.8	0	0	0	978.35
9/14/05 0:00	96	0.7	1.9	1.1	4.2	0.4	185.3	12.6	0	0	0	977.43
9/14/05 1:00	96	0.3	1.7	1.4	3.4	0.3	235.2	9.7	0	0	0.01	977.21
9/14/05 2:00	96	1	1.7	0.7	5.1	0.5	69.8	16.3	0	0	0	977.89
9/14/05 3:00	96.3	1	1.9	0.9	4	0.3	62.2	11.9	0	0	0	978.67
9/14/05 4:00	97	0.6	1.5	1	3.4	0.4	76.2	13.4	0	0	0	979.1
9/14/05 5:00	97	0.7	1.7	1	3.5	0.3	33.3	10.1	0.1	0	0	978.87
9/14/05 6:00	97	1.1	1.9	0.9	3.6	0.5	91.8	16.1	25	0.09	0	979.52
9/14/05 7:00	96.6	1.9	2.8	0.9	5.3	0.7	11.5	13	44.8	0.16	0	981.05
9/14/05 8:00	95.7	2.9	4.2	1.2	8.3	0.9	16.7	12.7	145	0.52	0	981.38
9/14/05 9:00	89.8	2.6	3.6	1	6.9	0.9	36.8	15.6	454.3	1.64	0	982.03
9/14/05 10:00	84.3	2.6	3.7	1	7.3	0.9	31.8	14.3	411	1.48	0	982.07
9/14/05 11:00	80.7	2	2.7	0.8	5.2	0.8	33.9	17.6	663.6	2.39	0	981.8
9/14/05 12:00	77.1	1.8	2.5	0.8	5.3	0.7	85.8	20.4	548.1	1.97	0	980.84
9/14/05 13:00	71.3	1.7	2.5	0.8	4.7	0.7	106.4	19	741.3	2.67	0	980.12
9/14/05 14:00	68.4	2.2	3.2	1	6.2	0.8	117.8	15.8	578	2.08	0	979.52
9/14/05 15:00	69.7	2.2	3.2	1	5.7	0.7	136.2	14.2	377.6	1.36	0	979.54
9/14/05 16:00	71	1.7	2.7	0.9	4.9	0.6	120.8	13.1	280.7	1.01	0	979.31
9/14/05 17:00	76	0.9	1.9	1	4	0.4	101.3	13.6	80.4	0.29	0	978.87
9/14/05 18:00	83.1	0.6	1.8	1.2	3.1	0.3	106.8	9.7	7.3	0.03	0	978.86
9/14/05 19:00	87.9	0.4	1.6	1.2	2.5	0.3	91.4	9.9	-1	0	0	979.01
9/14/05 20:00	90.8	1.4	2.2	0.8	4.5	0.5	54.8	12.6	-1	0	0	978.4
9/14/05 21:00	91.8	0.9	1.8	0.9	3.7	0.4						

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
9/15/05 9:00	0.01387	20.4	1.3	1.3	0	5.4					9.2	22.22	86		
9/15/05 10:00	0.01485	25	8.2	1.8	0	5.4					9.5	22.78	81		
9/15/05 11:00	0.02315	24.9	6.7	2.2	292.5	10.3	0.03	0.004	0.084	0.087	11.1	21.11	82		
9/15/05 12:00	0.0296	21.2	1.5	5.8	292.5	11.2	0.029	0.003	0.058	0.061	18	21.67	78		
9/15/05 13:00	0.02736	23.1	3.1	5.4	292.5	9.8	0.037	0.002	0.043	0.046	15.8	22.78	69		
9/15/05 14:00	0.03423	25	4.3	4.5	292.5	8.9	0.04	0.002	0.034	0.036	10.3	23.89	63		
9/15/05 15:00	0.03963	27.4	3.5	6.3	292.5	12.1	0.041	0.002	0.029	0.031	13.5	23.33	62		
9/15/05 16:00	0.03658	25.6	4.2	1.8	292.5	8.5	0.036	0.002	0.026	0.028	16.8	21.67	67		
9/15/05 17:00	0.02864	22.8	2.6	1.8	90	8	0.037	0.002	0.023	0.024	16.9	21.11	67		
9/15/05 18:00	0.02911	21.2	2.5	1.8	90	5.8	0.038	0.002	0.021	0.022	14.2	20.00	68		
9/15/05 19:00	0.03926	19	1.5	1.8	202.5	6.3	0.025	0.001	0.025	0.026	12.5	18.33	75		
9/15/05 20:00	0.03994	18.2	0.5	1.3	202.5	4	0.026	0.001	0.02	0.022	16.4	17.78	79		
9/15/05 21:00	0.03782	17.4	1.1	2.2	202.5	5.4	0.033	0.001	0.015	0.016	12.4	17.78	79		
9/15/05 22:00	0.0369	16.7	0.3	2.2	202.5	5.4	0.033	0.001	0.012	0.013	17.8	17.78	79		
9/15/05 23:00	0.03295	16.8	0.3	2.2	225	5.4	0.029	0.001	0.012	0.012	17.7	17.78	80		
9/16/05 0:00	0.02944	16.7	0.1	2.2	225	5.4	0.027	0.001	0.011	0.012	14.2	17.78	80		
9/16/05 1:00	0.02782	16.9	0.3	2.2	225	5.4	0.028	0.001	0.01	0.011	16.7	17.78	80		
9/16/05 2:00	0.02805	16.8	0.2	2.2	225	6.3	0.03	0.001	0.01	0.011	11.9	17.78	80		
9/16/05 3:00	0.02868	17.1	0.7	1.8	225	4.5	0.033	0.001	0.009	0.01	13.8	17.22	79		
9/16/05 4:00	0.03166	16.6	1	2.2	225	6.7	0.031	0.001	0.01	0.011	9.6	16.67	80		
9/16/05 5:00	0.03083	16.4	0.9	1.8	202.5	4.9	0.029	0.001	0.011	0.012	15.9	16.67	81		
9/16/05 6:00	0.02935	16.7	0.9	2.2	202.5	7.2	0.03	0.006	0.017	0.023	13.3	16.67	80		
9/16/05 7:00	0.02579	17.2	1	1.8	202.5	6.7	0	0.005	0.015	0.02	13.1	17.22	80		
9/16/05 8:00	0.02371	17.9	1.5	1.3	225	4.9	0.027				16.1	17.22	77		
9/16/05 9:00	0.01941	19.1	4.6	1.8	202.5	7.2	0.027				14	18.33	71		
9/16/05 10:00	0.02013	25.4	6.8	1.8	22.5	5.8	0.032				17.8	19.44	65		
9/16/05 11:00	0.02205	27.1	2.6	2.7	45	8	0.033				15.3	20.56	61		
9/16/05 12:00	0.0294	30.1	7.6	1.8	45	5.8	0.036	0.002	0	0.001	14	21.11	57		
9/16/05 13:00	0.03078	33.6	3	1.3	45	4.9	0.039	0.002	0	0	21.5	22.22	52		
9/16/05 14:00	0.03334	34.4	2.1	0.9	247.5	4	0.041	0.002	0	0	15.2	22.78	50		
9/16/05 15:00	0.03608	32.8	2.2	0.9	0	4	0.041	0.002	0	0.002	13.3	23.33	48		
9/16/05 16:00	0.03625	29	6.5	1.3	45	4	0.041	0.003	0.001	0.004	18	23.89	49		
9/16/05 17:00	0.03671	24.8	2.8	1.3	67.5	5.4	0.036	0.003	0.003	0.006	14.9	23.33	51		
9/16/05 18:00	0.03771	22.3	2.2	1.8	22.5	5.4	0.013	0.006	0.015	0.021	20.3	20.56	69		
9/16/05 19:00	0.03721	20.4	1.8	0.9	22.5	3.6	0.005	0.017	0.015	0.032	18.5	17.22	83		
9/16/05 20:00	0.02818	19.1	0.8	0	247.5	1.3	0	0.038	0.012	0.05	14.7	16.11	90		
9/16/05 21:00	0.03149	18.8	0.3	0.9	270	3.6	0	0.023	0.009	0.032	18.9	15.56	92		
9/16/05 22:00	0.04003	18.7	0.7	0.9	270	2.7	0	0.035	0.005	0.04	20.6	15.00	93		
9/16/05 23:00	0.03312	17.9	1.3	0.9	292.5	8.9	0	0.019	0.007	0.025	14.9	14.44	93		
9/17/05 0:00	0.02584	17	0.7	3.1	112.5	8.5	94	0	0.01	0.008	0.018	19.1	13.89	94	
9/17/05 1:00	0.03148	16.9	0.7	6.7	112.5	10.3	0	0.007	0.006	0.013	20	13.89	94		
9/17/05 2:00	0.03269	16.6	0.9	6.3	112.5	9.4	0.001	0.006	0.001	0.007	16.3	13.33	94		
9/17/05 3:00	0.02587	16.6	0.4	5.8	112.5	8	0	0.009	0	0.008	17.3	12.22	95		
9/17/05 4:00	0.02352	16.4	0.7	2.7	135	7.2	0	0.013	0	0.009	17.1	11.67	95		
9/17/05 5:00	0.02682	15.9	0.6	2.2	135	6.7	0	0.014	0	0.008	14.7	11.11	95		
9/17/05 6:00	0.02746	15.8	1.1	3.1	157.5	7.6	0	0.022	0	0.017	18.3	11.67	96		
9/17/05 7:00	0.02591	15.3	0.2	3.6	157.5	7.2	0.002	0.022	0	0.021	23.8	13.89	94		
9/17/05 8:00	0.02024	15.7	0.9	3.6	135	8.9	0.017	0.006	0	0.006	23.9	18.33	82		
9/17/05 9:00	0.02036	18.3	5.4	2.2	202.5	6.7	0.027	0.002	0	0	17.9	21.67	71		
9/17/05 10:00	0.02707	23.6	8.1	3.1	202.5	7.2	0.036	0.001	0	0	16.4	23.89	62		
9/17/05 11:00	0.03598	26.4	3.8	4.5	202.5	7.6	0.041	0.001	0	0	17.7	25.00	58		
9/17/05 12:00	0.04307	28.2	3	4	202.5	7.6	0.047	0	0	0	20.7	26.67	56		
9/17/05 13:00	0.04915	29.3	3	4.9	202.5	8.5	0.052	0	0	0	16.3	27.22	51		
9/17/05 14:00	0.05334	29.3	3.2	4	202.5	7.6	0.053	0	0	0	15.8	27.78	48		
9/17/05 15:00	0.05383	28.6	2.5	3.6	202.5	8.9	0.053	0	0	0	15.9	28.33	48		
9/17/05 16:00	0.05806	27.3	2.2	4	202.5	9.4	0.051	0	0	0	18.2	28.33	49		
9/17/05 17:00	0.05462	26.9	0.7	3.6	180	9.8	0.053	0	0	0	15.9	28.33	50		
9/17/05 18:00	0.05915	26.3	0.9	4.9	180	10.7	0.046	0	0	0	18.9	27.22	51		
9/17/05 19:00	0.05582	25.9	0.2	5.8	202.5	13	0.035	0	0.004	0.004	18.4	26.11	56		
9/17/05 20:00	0.05033	25.7	0.3	7.2	202.5	13	0.026	0.001	0.009	0.009	19.9	24.44	65		
9/17/05 21:00	0.04617	25.7	0.5	9.4	202.5	14.8	0.03	0	0.001	0.001	17.7	25.00	64		
9/17/05 22:00	0.0422	25.1	0.8	9.4	202.5	15.6	0.033	0	0	0	18.6	25.00	61		
9/17/05 23:00	0.04251	24.6	0.6	8.9	202.5	15.6	0.033	0	0	0	18.3	25.00	63		
9/18/05 0:00	0.04068	24.2	0.4	9.4	202.5	15.6	0.033	0	0	0	19.5	25.00	65		
9/18/05 1:00	0.03899	23.8	0.3	8.5	202.5	14.3	0.031	0	0	0	21	24.44	69		
9/18/05 2:00	0.03842	23.7	0.4	9.8	202.5	13.4	0.031	0	0	0	17.8	24.44	72		
9/18/05 3:00	0.03756	23.6	0.3	11.6	202.5	17	0.034	0	0	0	21.6	24.44	73		
9/18/05 4:00	0.04133	23.7	0.4	13	202.5	18.3	0.035	0	0	0	25.9	24.44	74		
9/18/05 5:00	0.03966	23.1	0.9	13.9	202.5	18.8	0.035	0	0	0	24.3	23.89	77		
9/18/05 6:00	0.03819	22.8	0.4	12.5	202.5	17	0.034	0	0	0	27.2	23.89	78		
9/18/05 7:00	0.03963	23.1	0.4	13	202.5	17.9	0.032	0	0	0	27.8	25.00	75		
9/18/05 8:00	0.03535	23.6	0.9	12.5	202.5	19.4	0.033	0	0	0	28.7	26.11	73		
9/18/05 9:00	0.03157	24.5	1.9	9.8	202.5	15.6	0.029	0.001	0	0	26.2	28.33	68		
9/18/05 10:00	0.02853	27.2	3.2	7.6	180	13.4	0.033	0	0	0	22.8	30.56	60		
9/18/05 11:00	0.03295	28.7	2.8	5.8	180	13	0.037	0	0	0	20.5	31.67	56		
9/18/05 12:00	0.03569	32	2.8	5.8	180	12.1	0.04	0	0	0	20.4	32.78	54		
9/18/05 13:00	0.03898	32.2	2.2	4.9	180	11.6	0.04	0.001	0	0	19.5	33.89	52		
9/18/05 14:00	0.03465	33.3	1.9	6.7	202.5	11.2	0.042	0	0	0	17.4	33.89	51		
9/18/05 15:00	0.02917	33.2	1.2	8.5	202.5	13	0.04	0	0	0	17	34.44	48		
9/18/05 16:00	0.02328	32.7	1.1	9.4	202.5	13.9	0.038	0.001	0	0	18.4	33.89	48		
9/18/05 17:00	0.02581	32	1.2	8	202.5	13.4	0.024	0.002	0.006	0.008	18.7	32.78	52		
9/18/05 18:00	0.02486	31.1	0.8	7.6	202.5	13	0.019	0.001	0.01	0.011	19.3	31.11	56		
9/18/05 19:00	0.02993	30.4	0.7	8.9	202.5	13	0.026	0	0	0	17.5	30.00	59		
9/18/05 20:00	0.02287	29.9	0.8	10.3	202.5	14.8	0.02	0	0.005	0.005	19.3	28.89	60		
9/18/05 21:00	0.01914	29.8	0.7	13	202.5	16.5	0.024	0	0	0	15.2	28.89	58		
9/18/05 22:00	0.03243	29.3	0.7	13.4	202.5	17	0.02	0	0.003	0.002	14.2	28.33	57		
9/18/05 23:00	0.02386	28.9	1.1	13.4	202.5	16.5	0.025	0	0	0	14.8	28.33	56		
9/19/05 0:00	0.02674	28.1	0.6	11.6	180	17	0.019	0	0	0	16.8	27.22	58		
9/19/05 1:00	0.02388	27.6	0.7	10.7	180	16.1	0.02								

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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
9/15/05 9:00	256	0.89408	22.8	20.6	19.4	81	3.09	270	988.49			
9/15/05 10:00	281	2.2352	23.3	20.8	19.4	79	4.63	270	988.83			
9/15/05 11:00	301	2.68224	21.7	19.2	17.8	79	6.17	280	989.16			
9/15/05 12:00	300	2.68224	22.2	19.4	17.8	76	6.17	300	988.83			
9/15/05 13:00	296	3.12928	23.3	19.2	16.7	67	5.65	290	989.83			
9/15/05 14:00	293	3.12928	23.9	19	16.1	62	6.69	320	988.49			
9/15/05 15:00	303	4.02336	22.8	18.6	16.1	66	4.63	320	988.49			
9/15/05 16:00	267	3.57632	21.7	18	15.6	68	6.17	340	989.16			
9/15/05 17:00	249	3.12928	20.6	17.2	15	70	4.12	330	989.50			
9/15/05 18:00	182	2.2352	18.9	16	13.9	73	4.12	340	990.52			
9/15/05 19:00	201	0.89408	17.8	15.5	13.9	78	2.57	330	991.20			
9/15/05 20:00	182	1.34112	17.8	15.5	13.9	78	4.63	340	991.87			
9/15/05 21:00	159	1.34112	16.7	15.1	13.9	84	4.63	350	991.87			
9/15/05 22:00	163	2.2352	16.7	15.1	13.9	84	3.09	330	992.21			
9/15/05 23:00	141	1.78816	17.2	15.6	14.4	84	4.12	350	992.21			
9/16/05 0:00	148	1.78816	17.8	16.1	15	84	4.12	340	992.55			
9/16/05 1:00	110	2.2352	17.8	15.8	14.4	81	4.12	360	992.55			
9/16/05 2:00	58	2.2352	17.8	15.8	14.4	81	3.60	20	992.55			
9/16/05 3:00	54	2.68224	17.2	15.3	13.9	81	5.66	360	992.55			
9/16/05 4:00	41	2.2352	16.7	14.7	13.3	81	3.60	20	992.89			
9/16/05 5:00	44	1.78816	16.7	14.7	13.3	81	3.09	20	993.57			
9/16/05 6:00	42	1.78816	16.1	14.5	13.3	84	3.09	350	994.24			
9/16/05 7:00	45	2.2352	17.2	15.3	13.9	81	3.60	10	994.58			
9/16/05 8:00	47	3.12928	18.9	16	13.9	73	3.60	30	995.26			
9/16/05 9:00	57	3.12928	19.4	15.8	13.3	68	4.63	20	995.94			
9/16/05 10:00	57	3.12928	20.6	16.3	13.3	63	5.14	20	995.60			
9/16/05 11:00	93	2.68224	21.7	16.7	13.3	59	4.12	10	995.26			
9/16/05 12:00	74	1.78816	22.8	17.1	13.3	55	3.09	360	994.58			
9/16/05 13:00	86	2.2352	22.8	16.6	12.2	51	2.06		993.90			
9/16/05 14:00	114	1.78816	23.9	17.3	12.8	50	3.09	340	993.23			
9/16/05 15:00	84	2.2352	24.4	17.7	13.3	50	3.09	50	992.55			
9/16/05 16:00	60	2.2352	23.9	17.5	13.3	52	3.09	10	992.21			
9/16/05 17:00	53	1.78816	22.2	16.9	13.3	57	2.57	80	992.21			
9/16/05 18:00	111	0.44704	21.7	16.5	12.8	57	1.54	80	992.21			
9/16/05 19:00	219	0	18.9	16.2	14.4	75	1.54	90	992.55			
9/16/05 20:00	175	0	18.3	16	14.4	78	0.00	0	992.55			
9/16/05 21:00	189	0	17.2	15.3	13.9	81	0.00	0	992.21			
9/16/05 22:00	125	0.44704	17.2	15.6	14.4	84	4.12	100	992.55			
9/16/05 23:00	184	0	16.1	14.8	13.3	87	1.54	90	992.55			
9/17/05 0:00	235	0	15	14	13.3	90	2.57	110	991.87			
9/17/05 1:00	184	0.44704	15	14	13.3	90	0.00	0	991.53			
9/17/05 2:00	124	0	14.4	13.8	13.3	93	1.54	120	991.20			
9/17/05 3:00	95	0	14.4	13.5	12.8	90	0.00	0	991.53			
9/17/05 4:00	184	0	13.9	13	12.2	90	0.00	0	991.87			
9/17/05 5:00	203	0	13.9	13	12.2	90	1.54	140	991.87			
9/17/05 6:00	117	0	13.9	13.3	12.8	93	1.54	120	991.87			
9/17/05 7:00	127	0	16.1	14.8	13.9	87	3.09	150	991.53			
9/17/05 8:00	171	1.78816	18.9	16.6	15	78	4.12	160	991.53			
9/17/05 9:00	186	1.78816	21.1	17.7	15.6	71	5.14	170	991.53			
9/17/05 10:00	195	1.78816	23.3	18.8	16.1	64	4.12	190	990.86			
9/17/05 11:00	198	1.78816	25.6	19.6	16.1	56	4.12	170	990.18			
9/17/05 12:00	191	1.78816	26.7	20	16.1	52	4.63	190	989.16			
9/17/05 13:00	179	2.2352	27.8	19.7	15	46	5.66	180	987.81			
9/17/05 14:00	180	2.2352	27.8	19.7	15	46	7.20	180	986.79			
9/17/05 15:00	174	2.2352	28.3	20.8	16.7	49	5.66	150	986.12			
9/17/05 16:00	173	2.2352	28.9	20.7	16.1	46	5.14	160	985.44			
9/17/05 17:00	171	2.2352	28.3	20.5	16.1	48	5.14	160	984.76			
9/17/05 18:00	180	1.78816	26.1	20.4	17.2	58	4.63	150	984.42			
9/17/05 19:00	165	0.89408	25.6	20.2	17.2	60	4.12	150	984.76			
9/17/05 20:00	171	0.89408	25	19.7	16.7	60	4.63	150	985.10			
9/17/05 21:00	175	1.34112	25	19.7	16.7	60	5.14	170	985.10			
9/17/05 22:00	184	1.34112	25	19.7	16.7	60	3.09	160	985.10			
9/17/05 23:00	181	1.34112	25	19.7	16.7	60	5.14	160	985.10			
9/18/05 0:00	163	1.34112	25	20.4	17.8	64	4.12	170	985.44			
9/18/05 1:00	191	1.34112	24.4	20.2	17.8	67	4.12	170	985.44			
9/18/05 2:00	194	1.34112	23.9	20.3	18.3	71	5.14	170	984.76			
9/18/05 3:00	193	1.78816	23.9	20.6	18.9	74	4.12	170	984.42			
9/18/05 4:00	196	1.78816	23.3	20.4	18.9	76	4.12	180	984.76			
9/18/05 5:00	195	1.78816	23.3	20.4	18.9	76	4.12	160	985.10			
9/18/05 6:00	191	1.78816	23.9	21	19.4	76	5.14	170	985.78			
9/18/05 7:00	192	1.78816	24.4	21.5	20	77	5.66	170	985.78			
9/18/05 8:00	197	1.78816	26.7	22.6	20.6	69	7.72	180	986.12			
9/18/05 9:00	197	1.78816	29.4	24.1	21.7	63	7.20	190	986.12			
9/18/05 10:00	208	1.78816	30	24.2	21.7	61	5.14	180	986.45			
9/18/05 11:00	205	1.78816	32.2	24.8	21.7	54	5.66	200	986.79			
9/18/05 12:00	202	1.78816	32.8	25	21.7	52	7.20	190	986.12			
9/18/05 13:00	195	2.2352	33.9	25.3	21.7	49	6.69	200	985.78			
9/18/05 14:00	192	2.68224	34.4	25.7	22.2	49	7.72	190	985.44			
9/18/05 15:00	200	2.68224	33.9	25.3	21.7	49	8.23	180	985.10			
9/18/05 16:00	199	3.12928	33.3	24.7	21.1	49	8.75	190	985.10			
9/18/05 17:00	199	1.78816	32.8	24.6	21.1	50	4.63	180	985.78			
9/18/05 18:00	196	1.34112	31.7	24.3	21.1	53	4.12	180	985.78			
9/18/05 19:00	195	1.34112	30.6	23.7	20.6	55	5.14	180	986.12			
9/18/05 20:00	199	0.89408	30	23.2	20	55	4.63	170	986.45			
9/18/05 21:00	201	1.78816	29.4	22.7	19.4	55	5.14	180	986.79			
9/18/05 22:00	197	1.78816	29.4	22	18.3	51	5.66	180	987.13			
9/18/05 23:00	200	1.34112	28.3	21.7	18.3	55	5.14	180	987.81			
9/19/05 0:00	201	0.89408	28.3	21.4	17.8	53	5.66	180	987.81			
9/19/05 1:00	194	0.44704	26.7	20.9	17.8	58	3.60	190	988.49			
9/19/05 2:00	212	0.44704	26.1	20.7	17.8	60	3.09	190	988.49			
9/19/05 3:00	213	0.89408	26.1	20.7	17.8	60	4.63	180	988.49			
9/19/05 4:00	218	0.44704	24.4	20.2	17.8	67	1.54	140	988.83			
9/19/05 5:00	194	0.44704	23.3	20.1	18.3	74	3.09	150	989.50			
9/19/05 6:00	165	0.44704	24.4	20.8	18.9	72	3.09	160	990.52			
9/19/05 7:00	191	0.89408	26.1	21.7	19.4	67	4.63	180	990.86			
9/19/05 8:00	209	1.34112	28.9	22.5	19.4	57	5.14	220	991.20			
9/19/05 9:00	215	1.34112	30.6	23.7	20.6	55	8.75	210	991.53			
9/19/05 10:00	216	1.78816	32.2	24.2	20.6	50	6.17	230	991.20			
9/19/05 11:00	216	1.78816	33.9	24.9	21.1	47	7.20	200	990.86			
9/19/05 12:00	212	1.78816	33.9	24.9	21.1	47	4.63	220	990.52			
9/19/05 13:00	217	1.78816	34.4	25	21.1	46	6.69	210	989.84			
9/19/05 14:00	217	1.78816	34.4	24.7	20.6	44	5.66	220	989.16	33.4	33	-0.4
9/19/05 15:00	205	2.2352	34.4	24.4	20	43	7.20	190	988.83	33.3	33	-0.3
9/19/05 16:00	209	1.78816	33.9	24.3	20	44	4.63	200	988.83	32.6	32.6	0
9/19/05 17:00	209											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SURF} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
9/15/05 9:00	92	2.4	3.3	0.9	6.7	0.9	232.4	14.8	330.8	1.19	0	981.71
9/15/05 10:00	88.3	2.7	3.8	1.1	7.3	1.1	238.5	16.6	177.2	0.64	0	981.94
9/15/05 11:00	86.3	2.4	3.2	0.8	6.6	0.9	239.4	16.3	214	0.77	0	982.35
9/15/05 12:00	81.1	2.2	3	0.9	5.9	0.8	224.3	14.1	407.2	1.47	0	982.44
9/15/05 13:00	70.4	2.6	3.5	0.9	7.6	1	240.7	17.5	629.3	2.27	0	982.06
9/15/05 14:00	64.2	2.6	3.6	1	8.1	1.1	262.6	19.6	597.4	2.15	0	981.94
9/15/05 15:00	68.4	2.6	3.6	1	7.4	1.2	277.6	18.7	399.6	1.44	0	982.05
9/15/05 16:00	69.9	2.6	3.8	1.2	7.9	1.2	286.8	18.3	228	0.82	0	982.31
9/15/05 17:00	68.9	2.1	3.2	1.1	8.8	1	302.1	18.1	148.8	0.54	0	982.75
9/15/05 18:00	75.2	1	2.1	1.1	4.6	0.5	285.9	15.4	15.7	0.06	0	983.27
9/15/05 19:00	81.3	1.1	2.4	1.3	4.9	0.6	319.2	13.7	-0.4	0	0	984.06
9/15/05 20:00	80.4	1.7	2.8	1.1	5.6	0.7	240.2	13.9	0	0	0	984.8
9/15/05 21:00	81.4	2.1	3.3	1.2	6.3	0.8	181.6	13	0	0	0	985.24
9/15/05 22:00	84.1	1.7	2.7	1	5.6	0.7	212.8	12	0	0	0	985.39
9/15/05 23:00	85.1	1.2	2.1	0.9	3.9	0.5	256.6	13.3	0	0	0	985.61
9/16/05 0:00	83.6	2	3.1	1.1	6.7	0.8	237.8	14	0	0	0	985.64
9/16/05 1:00	83.1	1.8	2.8	1	6.1	0.7	35.8	13.3	0	0	0	985.8
9/16/05 2:00	82.2	2.2	3.2	1	6.2	0.8	18.2	13.1	0	0	0	985.86
9/16/05 3:00	83.8	1.6	2.5	0.8	5.3	0.6	28.3	15.4	0	0	0	985.97
9/16/05 4:00	85.5	1.2	2	0.8	4.1	0.5	26.1	13.5	0	0	0	986.28
9/16/05 5:00	86.8	1.1	1.9	0.8	3.8	0.5	33.4	14	0.2	0	0	986.7
9/16/05 6:00	89.6	1.1	1.9	0.9	3.2	0.4	20.6	9.7	41.3	0.15	0	987.31
9/16/05 7:00	87.1	1.4	2.2	0.8	4.1	0.5	27	13.2	107.8	0.39	0	987.92
9/16/05 8:00	83.8	2.3	3.3	0.9	6	0.7	36.9	15.4	199.8	0.72	0	988.5
9/16/05 9:00	77.2	2	2.8	0.8	5.5	0.7	26.8	15.7	400.1	1.44	0	989.15
9/16/05 10:00	68.8	2.4	3.2	0.9	6.6	0.8	45.8	19.4	713.8	2.57	0	989.29
9/16/05 11:00	64.2	1.9	2.7	0.8	5.4	0.8	44.8	22.2	843.6	3.04	0	988.87
9/16/05 12:00	58.2	1.5	2	0.6	5.1	0.7	52.4	24.5	855.5	3.08	0	988.53
9/16/05 13:00	54.4	1.3	2	0.7	4.3	0.7	75.2	21.8	811.3	2.92	0	987.81
9/16/05 14:00	51.4	1.4	2	0.6	4.1	0.6	72.2	24.7	709	2.55	0	987.16
9/16/05 15:00	51.3	1.3	1.9	0.7	4.5	0.6	62.3	21.8	556.2	2	0	986.38
9/16/05 16:00	53.3	1.1	1.8	0.7	4	0.5	65.7	17.8	366.3	1.32	0	985.81
9/16/05 17:00	57.9	0.6	1.6	0.9	3.4	0.3	64.7	13.1	162.4	0.58	0	985.54
9/16/05 18:00	71.1	0	0.4	0.4	1.5	0.1	65.8	5.4	11.7	0.04	0	985.45
9/16/05 19:00	85.6	0	0.3	0.2	1.1	0.1	30.2	1.5	-0.8	0	0	985.67
9/16/05 20:00	83.3	0.1	0.8	0.7	1.9	0.1	69.9	3.7	0	0	0	985.65
9/16/05 21:00	84	0.4	1.2	0.9	3.8	0.2	75	5.1	0	0	0	985.55
9/16/05 22:00	87.3	0.7	1.7	1.1	3.7	0.4	82.4	13.1	0	0	0	985.61
9/16/05 23:00	90.9	0.2	1.6	1.4	2.8	0.3	90.3	8.8	0	0	0	985.64
9/17/05 0:00	93.7	0.1	1.6	1.6	2.4	0.2	92.8	6.2	0	0	0	985.24
9/17/05 1:00	94	0.7	1.9	1.2	2.9	0.3	88.1	7.3	0	0	0	984.77
9/17/05 2:00	94.5	0.9	2	1.1	2.9	0.3	69.7	7.7	0	0	0	984.41
9/17/05 3:00	95.1	0.2	1.6	1.4	2.4	0.2	73.9	4.8	0	0	0	984.4
9/17/05 4:00	95.9	0	1	1	1.9	0.2	88.1	6.8	0	0	0	984.52
9/17/05 5:00	96	0	1.2	1.2	2	0.2	112.7	6.9	0.3	0	0	984.65
9/17/05 6:00	96.3	0	1.2	1.2	2.1	0.2	94.3	8.7	42.6	0.15	0	984.81
9/17/05 7:00	93.8	1.4	2.3	0.9	5	0.5	134.1	11.8	224.8	0.81	0	984.54
9/17/05 8:00	87.4	2.6	3.6	1	6.2	0.9	151.8	13.7	423.8	1.53	0	984.41
9/17/05 9:00	80.2	2.3	3.2	0.9	6	0.8	178.5	15	595.1	2.14	0	984.42
9/17/05 10:00	68	2.5	3.4	0.9	6.2	0.8	150.3	16.2	729.9	2.63	0	984
9/17/05 11:00	59.5	2.6	3.5	0.9	6.1	0.8	139.8	17.6	808.8	2.91	0	983.28
9/17/05 12:00	56.7	2.8	3.9	1.1	7.5	1	154.2	15.2	768.2	2.77	0	982.69
9/17/05 13:00	54.8	2.9	4	1	7.4	1.1	169.8	17.3	746.6	2.69	0	981.28
9/17/05 14:00	51.5	2.9	4	1.1	6.9	1	146.3	15.8	561.2	2.02	0	980.24
9/17/05 15:00	53.7	2.2	3.1	1	6.6	0.8	154.2	15.2	354.6	1.28	0	979.45
9/17/05 16:00	56	2.5	3.6	1.1	7	0.9	150.1	14.3	320.2	1.15	0	978.85
9/17/05 17:00	57.1	2	3	1	5.8	0.7	159.1	14.2	107	0.39	0	978.42
9/17/05 18:00	60.7	1.2	2.3	1.1	4.3	0.5	159.3	13.3	13.7	0.05	0	978.04
9/17/05 19:00	65.6	1.2	2.4	1.2	4.3	0.4	145.8	9.8	-1	0	0	978.03
9/17/05 20:00	67.8	1.8	2.9	1.1	5.4	0.6	154.3	11.9	-0.9	0	0	978.35
9/17/05 21:00	67.9	2	3.1	1.1	5.8	0.7	156.4	12.6	-0.8	0	0	978.22
9/17/05 22:00	68.2	2.1	3.2	1.1	5.9	0.7	153.2	13.1	-1	0	0	978.26
9/17/05 23:00	70.8	1.3	2.5	1.2	4.8	0.4	137.9	9.9	-1	0	0	978.52
9/18/05 0:00	72.3	1.4	2.4	1.1	4.3	0.5	154.1	11.8	-1	0	0	978.68
9/18/05 1:00	73.8	1.6	2.6	1	4.8	0.6	169.1	12.9	-0.6	0	0	978.6
9/18/05 2:00	77.3	1.9	2.8	0.9	6.2	0.7	169.5	13.2	-1	0	0	978.06
9/18/05 3:00	79.2	2.8	4.1	1.3	6.6	0.8	173.5	12.3	-1	0	0	977.45
9/18/05 4:00	79.2	3.2	4.6	1.4	8.9	0.9	152.3	11.3	-1	0	0	977.72
9/18/05 5:00	79.8	3.4	4.7	1.3	8.3	1	175.7	12.6	-0.7	0	0	978.08
9/18/05 6:00	80.9	2.8	4	1.2	7.2	0.9	174.7	13.4	29.6	0.11	0	978.56
9/18/05 7:00	80.5	2.9	4.2	1.3	7.9	0.9	163.7	12.4	86.1	0.31	0	978.81
9/18/05 8:00	77.2	3.1	4.4	1.3	8.9	1	156.8	12.9	277.2	1	0	979.08
9/18/05 9:00	70.4	3.5	5	1.5	8.1	1.1	167.9	11.6	478.5	1.72	0	979.31
9/18/05 10:00	62.8	3.7	5.4	1.7	10.3	1.2	173.7	11.5	709.4	2.55	0	979.56
9/18/05 11:00	58.7	3.7	5.4	1.7	9.1	1.1	170.8	12.4	758.9	2.73	0	979.78
9/18/05 12:00	58.3	3.2	4.6	1.4	8.4	1.1	160.6	13.2	684.5	2.46	0	979.62
9/18/05 13:00	58	3.6	5	1.4	8.7	1.1	155.5	11.8	631.4	2.27	0	979.2
9/18/05 14:00	57.3	4	5.6	1.6	10.1	1.2	183.8	11.9	472.2	1.7	0	978.73
9/18/05 15:00	53.6	4	5.6	1.6	11.6	1.3	158.3	12.5	456.5	1.64	0	978.51
9/18/05 16:00	56.2	3.1	4.4	1.3	8.9	1	154.8	11.7	204.4	0.74	0	978.58
9/18/05 17:00	58.8	2.6	3.8	1.3	6.7	0.8	159.2	10.7	85.8	0.31	0	978.91
9/18/05 18:00	65.8	1.5	2.9	1.4	4.9	0.4	164.6	8.2	7.2	0.03	0	979.13
9/18/05 19:00	68.2	1.6	2.9	1.3	5.5	0.5	161.6	8.8	-1	0	0	979.53
9/18/05 20:00	66.2	1.7	2.9	1.3	5.6	0.6	154.1	10.1	-0.9	0	0	979.92
9/18/05 21:00	65.5	2	3.3	1.3	5.5	0.7	155.6	10.6	-1	0	0	980.18
9/18/05 22:00	65.3	2.2	3.6	1.4	6.6	0.6	155.9	9.6	-1	0	0	980.51
9/18/05 23:00	63.6	2.7	4.3	1.6	8.5	0.8	164.1	9.7	-0.9	0	0	980.74
9/19/05 0:00	64.1	2.2	3.7	1.6	6.5	0.6	178.8	9.4	-0.7	0	0	981.03
9/19/05 1:00	61.2	2.6	4.2	1.6	6.9	0.8	161.6	9.7	-0.6	0	0	981.52
9/19/05 2:00	62.9	2.6	4.3	1.7	7.1	0.7	176.5	9.2	-0.6	0	0	981.57
9/19/05 3:00	64.5	2	3.5	1.5	5.9	0.6	181.9	8.9	-0.3	0	0	981.64
9/19/05 4:00	64.4	2.3	3.7	1.3	6.4	0.7	190.9	8.9	-0.1	0	0	981.92
9/19/05 5:00	65.4	2.1	3.5	1.4	5.8	0.6	188.5	9.2	-0.1	0	0	982.33
9/19/05 6:00	67.5	1.9	3.1	1.2	5.6	0.6	178.8	9.8	42.8	0.15	0	983.06
9/19/05 7:00	70.3	2	3	1	5	0.6	161.3	11	203.1	0.73	0	983.7
9/19/05 8:00	66.3	3.1	4.6	1.5	8.1	1	180.8	10.3	394.3	1.42	0	984.05
9/19/05 9:00	62	3.5	5	1.5	8.1	1	188	11.4	564.7	2.03	0	984.49
9/19/05 10:00	58.5	4	5.8	1.7	9.6	1.2	188.3	11.6	697.3	2.51	0	984.52
9/19/05 11:00	55.3	3.6	5	1.4	8.1	1	194.2	12	771.3	2.78	0	984.27
9/19/05 12:00	51.3	4.1</										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
9/20/05 0:00	0.03924	27	0.6	2.2	22.5	8.5	0.022	0	0.005	0.003	16.4	25.56	75		
9/20/05 1:00	0.04163	26.7	0.9	3.1	337.5	8	0.015	0	0.006	0.005	17	24.44	80		
9/20/05 2:00	0.03923	26.6	0.5	3.6	337.5	8.9	0.01	0	0.006	0.004	17.5	23.89	84		
9/20/05 3:00	0.03577	26.2	0.6	0.9	45	3.6	0.005	0	0.006	0.006	18.8	22.78	88		
9/20/05 4:00	0.01956	26.1	0.6	0.4	202.5	2.7	0.006	0	0.005	0.004	19	22.78	87		
9/20/05 5:00	0.02029	25.1	1.9	2.7	292.5	6.7	0.007	0	0.005	0.004	18	22.22	86		
9/20/05 6:00	0.02164	23.9	0.3	4	292.5	5.8	0.004	0.005	0.008	0.013	17.7	22.78	89		
9/20/05 7:00	0.02126	23.4	1.3	0.4	247.5	4.5	0.012	0.003	0.004	0.007	19.4	23.89	85		
9/20/05 8:00	0.01832	23.6	1	0.4	247.5	3.1	0.023	0.001	0.002	0.003	22.7	26.11	78		
9/20/05 9:00	0.01819	26.3	6.2	0.4	0	2.2	0.03	0	0	0	26	27.22	74		
9/20/05 10:00	0.02162	35.2	9.2	0.4	0	2.2	0.039	0	0	0	23.6	29.44	68		
9/20/05 11:00	0.03854	41.9	4.5	0.4	0	2.7	0.049	0	0	0	24	30.56	63		
9/20/05 12:00	0.04525	43.2	2.3	1.3	0	3.6	0.056	0	0	0	0	31.67	56		
9/20/05 13:00	0.04986	44.4	3.8	0.9	0	4.5	0.057	0	0	0	0	32.78	52		
9/20/05 14:00	0.05033	43.8	3.1	0.9	225	4	0.057	0	0	0	20.7	33.33	46		
9/20/05 15:00	0.05463	42	4.4	1.3	292.5	4.5	0.059	0	0	0	20.4	33.33	40		
9/20/05 16:00	0.0547	38.2	5.3	0.9	0	4	0.058	0	0	0	20.3	33.33	41		
9/20/05 17:00	0.05469	34.1	3.1	0.4	247.5	2.7	0.047	0.001	0.009	0.01	22.5	32.22	51		
9/20/05 18:00	0.04889	31.7	3.1	0.4	247.5	2.2	0.024	0.001	0.02	0.021	23.7	28.89	69		
9/20/05 19:00	0.04854	28.5	2.5	0.9	22.5	3.1	0.007	0.003	0.031	0.034	25.1	26.67	78		
9/20/05 20:00	0.05004	27.1	0.8	0.4	0	4	0.001	0.026	0.029	0.055	24.8	25.56	84		
9/20/05 21:00	0.05756	26.6	0.5	0	270	1.8	0	0.03	0.021	0.051	25.5	24.44	88		
9/20/05 22:00	0.05706	26.2	0.5	0	247.5	1.8	0	0.024	0.015	0.038	25.7	23.89	90		
9/20/05 23:00	0.056	26.1	0.4	0.4	247.5	2.2	0	0.013	0.013	0.027	26.2	23.33	92		
9/21/05 0:00	0.05143	26	0.7	0.9	270	4.5	0	0.012	0.008	0.02	24.6	22.78	93		
9/21/05 1:00	0.05533	25.9	0.4	3.6	112.5	4.9	0	0.011	0.004	0.015	25.3	22.22	94		
9/21/05 2:00	0.04869	25.9	0.7	1.8	112.5	4.9	0	0.011	0.002	0.013	25.6	21.67	94		
9/21/05 3:00	0.05303	25.9	0.9	1.3	90	4.5	0.001	0.001	0.001	0.002	22.9	21.11	94		
9/21/05 4:00	0.05137	25.8	1.3	2.7	202.5	5.8	0	0.005	0.002	0.006	22.8	21.11	94		
9/21/05 5:00	0.04934	26.4	0.3	4.5	180	5.8	0	0.023	0	0.023	22.5	20.56	94		
9/21/05 6:00	0.04484	25.6	1.1	1.3	337.5	3.6	0	0.043	0.001	0.044	24.3	20.56	95		
9/21/05 7:00	0.02965	25.1	0.4	1.8	0	4.9	0	0.111	0.011	0.122	30.7	23.89	86		
9/21/05 8:00	0.01746	25.6	0.8	2.2	0	5.8	0.009	0.051	0.029	0.08	38.1	28.33	69		
9/21/05 9:00	0.02533	26.9	3.1	3.1	315	6.7	0.039	0.002	0.008	0.009	26.4	30.00	57		
9/21/05 10:00	0.04127	32.7	7.2	3.6	292.5	8	0.053	0	0	0	25.1	31.67	49		
9/21/05 11:00	0.05356	37.7	4.7	2.2	67.5	7.2	0.061	0	0	0	22.9	33.33	44		
9/21/05 12:00	0.0571	41.7	4	1.8	67.5	5.8	0.069	0	0	0	25.5	33.89	40		
9/21/05 13:00	0.05904	42.8	4.2	1.8	0	6.7	0.072	0	0	0	24.6	35.00	39		
9/21/05 14:00	0.06447	42.4	3.1	1.8	0	6.7	0.076	0	0	0	23.7	35.56	36		
9/21/05 15:00	0.07135	38.2	5.2	2.7	202.5	7.2	0.066	0	0	0	20	35.56	34		
9/21/05 16:00	0.06146	35	2.9	3.6	180	7.6	0.06	0	0	0	22.5	35.00	34		
9/21/05 17:00	0.06278	33.2	1.1	2.2	180	7.2	0.056	0	0	0	24.8	33.33	37		
9/21/05 18:00	0.05994	31.6	1.8	1.8	180	6.3	0.024	0.008	0.025	0.032	25.7	28.89	52		
9/21/05 19:00	0.04554	30	1.5	2.2	22.5	5.4	0.008	0.009	0.036	0.045	27.7	26.67	65		
9/21/05 20:00	0.02169	28.9	0.6	3.6	22.5	5.8	0.001	0.029	0.037	0.066	29.3	24.44	74		
9/21/05 21:00	0.0415	28.4	0.4	4	22.5	8	0.005	0.011	0.03	0.041	28.3	24.44	73		
9/21/05 22:00	0.05343	29	1.6	3.6	22.5	7.6	0.004	0.002	0.022	0.023	27.6	23.33	76		
9/21/05 23:00	0.05798	29.7	0.5	4	180	9.4	0	0.011	0.021	0.033	28.8	22.22	82		
9/22/05 0:00	0.05858	29.6	0.5	6.7	180	10.3	0	0.011	0.014	0.025	27.8	21.11	87		
9/22/05 1:00	0.06347	29.4	0.2	8	180	11.2	0	0.004	0.012	0.016	28.2	20.56	90		
9/22/05 2:00	0.06291	29	0.6	8.5	180	11.6	0	0.003	0.01	0.012	28.4	20.00	92		
9/22/05 3:00	0.06043	28.8	0.3	9.8	180	12.1	0.003	0	0.008	0.008	27.4	20.00	92		
9/22/05 4:00	0.0615	28.1	1.7	6.3	180	12.1	0.002	0.006	0.011	0.017	28.8	20.56	89		
9/22/05 5:00	0.05292	26.4	1.6	3.6	0	8	0.003	0.004	0.019	0.023	29.2	20.56	86		
9/22/05 6:00	0.03314	25.1	0.6	4.9	22.5	8.9	0.003	0.006	0.023	0.029	29.4	20.56	85		
9/22/05 7:00	0.02602	24.9	1	3.6	0	11.2	0.007	0.02	0.023	0.043	31.4	23.33	73		
9/22/05 8:00	0.0324	25.2	0.9	4	337.5	8.5	0.017	0.012	0.022	0.033	31.5	27.22	59		
9/22/05 9:00	0.03723	26.1	2.5	2.2	22.5	8	0.034	0.005	0.016	0.02	31.6	29.44	53		
9/22/05 10:00	0.04539	31.2	6.1	1.8	0	6.3	0.047	0.003	0.013	0.015	32.1	31.67	49		
9/22/05 11:00	0.04646	34.3	4.1	2.2	180	5.8	0.051	0.001	0.008	0.009	27.2	33.33	45		
9/22/05 12:00	0.04566	36.2	1.5	4.5	202.5	8.5	0.047	0	0.003	0.003	22.7	34.44	41		
9/22/05 13:00	0.04492	36.7	2.6	4	202.5	8.9	0.05	0	0	0	21	35.00	36		
9/22/05 14:00	0.0489	36.9	2.5	4.5	202.5	9.8	0.048	0	0.001	0.001	23.5	35.56	34		
9/22/05 15:00	0.05001	36.1	1.7	5.4	202.5	8.9	0.047	0	0.002	0.002	19.4	35.00	33		
9/22/05 16:00	0.04569	34.9	3.3	4.5	202.5	8.5	0.049	0	0	0	22.3	34.44	34		
9/22/05 17:00	0.04388	32.9	1	5.4	202.5	8	0.036	0	0.011	0.011	21.3	33.33	38		
9/22/05 18:00	0.05245	31.7	1.3	4.9	202.5	7.2	0.011	0.012	0.032	0.044	24.6	28.89	56		
9/22/05 19:00	0.04183	30.9	0.4	4.9	202.5	6.7	0	0.033	0.032	0.065	25.8	25.56	72		
9/22/05 20:00	0.04186	30.6	0.3	4.9	202.5	7.2	0	0.051	0.023	0.074	26.6	23.89	79		
9/22/05 21:00	0.05782	30.3	0.7	5.8	202.5	7.6	0	0.028	0.019	0.047	26	23.33	85		
9/22/05 22:00	0.05428	30.5	0.7	4.5	202.5	8	0	0.03	0.016	0.047	27.2	22.22	87		
9/22/05 23:00	0.05019	29.9	1.9	3.6	202.5	6.7	0.08	0	0.03	0.014	0.045	26.6	21.67	88	
9/23/05 0:00	0.06726	29.2	1.2	4.5	202.5	6.7	0	0.031	0.01	0.041	27.1	21.11	90		
9/23/05 1:00	0.05906	27.9	1.1	2.7	180	8	0	0.021	0.01	0.031	28.6	20.56	91		
9/23/05 2:00	0.06311	28.4	0.8	3.6	180	7.6	0	0.024	0.007	0.031	25.6	20.00	93		
9/23/05 3:00	0.05699	27.3	1.4	5.8	202.5	10.3	0	0.029	0.004	0.032	24.6	19.44	94		
9/23/05 4:00	0.05375	26.8	2.1	8	202.5	10.7	0	0.025	0.002	0.027	26.1	18.89	94		
9/23/05 5:00	0.06222	27.8	2.2	7.2	180	11.6	0	0.026	0.008	0.035	27	19.44	92		
9/23/05 6:00	0.05644	27.1	1.9	8	202.5	12.1	0.001	0.014	0.013	0.026	28.6	20.56	87		
9/23/05 7:00	0.03774	25	1.1	2.7	202.5	6.3	0.005	0.013	0.01	0.022	31.5	21.67	83		
9/23/05 8:00	0.04042	24.9	0.7	1.8	202.5	3.1	0.012	0.008	0.01	0.019	32.1	24.44	74		
9/23/05 9:00	0.0203	26.7	4.9	2.2	202.5	4.5	0.021	0.011	0.02	0.031	39.7	27.78	62		
9/23/05 10:00	0.02752	33.3	5.1	1.8	202.5	5.4	0.042	0.003	0.014	0.017	33.7	30.56	53		
9/23/05 11:00	0.0393	33.9	2.5	3.6	202.5	6.3	0.057	0	0.004	0.003	32	31.67	50		
9/23/05 12:00	0.0525	35.1	2.6	4	202.5	6.7	0.064	0	0.001	0	33.9	33.33	47		
9/23/05 13:00	0.06006	37.6	3.7	3.1	202.5	5.4	0.065	0	0.005	0.004	32.8	33.33	44		
9/23/05 14:00	0.05842						0.072	0	0	0	35.1	33.89	40		
9/23/05 15:00	0.06471						0.069	0	0.004	0.003	35.7	33.33	41		
9/23/0															

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	WDIR	WS (m/s)	KTUL				RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)	T _A (°C)					T _{A,SFC} (°C)	T _{A,SM} (°C)	
9/20/05 0:00	216	0.44704	24.4	22.2	21.1	82	2.06	160	991.53		24.2	25.6	1.4
9/20/05 1:00	200	0	25.6	22.3	20.6	74	0.00	0	991.53		24.3	25.6	1.3
9/20/05 2:00	193	0	23.9	22	21.1	84	1.54	180	991.53		24	24.9	0.9
9/20/05 3:00	150	0	25.6	22.3	20.6	74	1.54	200	991.53		22.5	24	1.5
9/20/05 4:00	194	0.44704	23.3	21.8	20.6	88	2.06	300	992.55		22.6	23	0.7
9/20/05 5:00	262	0.44704	24.4	21.9	20.6	79	1.54	260	992.55		22.5	23	0.6
9/20/05 6:00	302	0.89408	22.8	21.7	21.1	90	1.54	320	992.89		22.3	22.7	0.4
9/20/05 7:00	224	1.34112	24.4	22.9	22.2	88	2.57	340	993.57		23.8	23.5	-0.2
9/20/05 8:00	69	1.78816	26.7	24	22.8	79	2.06	340	993.90		25.5	24.7	-0.7
9/20/05 9:00	128	1.34112	28.3	24.5	22.8	72	3.09	360	993.90		27.5	26.6	-1
9/20/05 10:00	152	1.34112	29.4	25.1	23.3	70	2.06	340	993.90		29.3	28.2	-1.1
9/20/05 11:00	124	1.34112	31.1	25.5	23.0	63	2.57	340	993.57		30.6	29.8	-0.9
9/20/05 12:00	164	1.34112	32.2	25.1	22.2	56	2.06	10	992.89		31.6	30.7	-0.9
9/20/05 13:00	205	1.34112	33.9	25.9	22.8	52	2.06		992.55		32.3	31.4	-0.8
9/20/05 14:00	275	1.34112	33.3	25.1	21.7	51	3.09		991.87		32.7	32	-0.7
9/20/05 15:00	287	1.34112	33.3	24.8	21.1	49	2.06	20	991.53		32.3	31.7	-0.6
9/20/05 16:00	198	0.89408	33.3	24.8	21.1	49	2.57	350	991.53		31.7	31.4	-0.2
9/20/05 17:00	55	1.34112	31.7	24.7	21.7	55	2.06	50	991.20		30.2	30.4	0.3
9/20/05 18:00	75	0.44704	30	23.6	20.6	57	2.57	30	991.20		26.2	29	2.7
9/20/05 19:00	195	0	28.9	23.6	21.1	63	1.54	70	991.87		25.1	28.4	3.3
9/20/05 20:00	122	0	28.9	23.2	20.6	61	2.06	60	992.21		24.5	27.9	3.4
9/20/05 21:00	126	0	26.7	22.9	21.1	71	0.00	0	992.21		24.9	27.1	2.2
9/20/05 22:00	217	0	24.4	22.9	22.2	88	0.00	0	991.87		24.4	26.2	1.8
9/20/05 23:00	235	0	24.4	22.6	21.7	85	1.54	310	991.53		24.5	26.3	1.8
9/21/05 0:00	171	0	23.9	22.4	21.7	88	0.00	0	991.53		24.5	26	1.6
9/21/05 1:00	205	0	23.3	22.2	21.7	91	0.00	0	991.20		23.3	24.9	1.7
9/21/05 2:00	156	0	22.8	21.7	21.1	90	0.00	0	990.86		22.4	23.8	1.4
9/21/05 3:00	137	0	22.2	21.5	21.1	94	0.00	0	990.52		22.1	23.5	1.4
9/21/05 4:00	185	0	22.2	21.5	21.1	94	0.00	0	990.86		21.4	23.4	2
9/21/05 5:00	144	0	21.7	21	20.6	94	0.00	0	990.86		21.5	23.4	1.9
9/21/05 6:00	207	0	22.2	21.1	20.6	91	0.00	0	990.86		22.4	23.9	1.5
9/21/05 7:00	111	0	26.1	23.1	21.7	77	2.57	180	991.20		25.5	25.2	-0.3
9/21/05 8:00	215	0.44704	28.9	23.2	20.6	61	2.57		991.20		26.8	26.4	-0.5
9/21/05 9:00	274	1.34112	30.6	23.7	20.6	55	3.09	270	991.20		28.9	28.2	-0.7
9/21/05 10:00	273	1.34112	32.2	23.5	19.4	47	3.60	260	990.86		31.1	30.3	-0.8
9/21/05 11:00	241	1.34112	33.9	23.6	18.9	41	3.60	260	990.86		32.2	31.5	-0.6
9/21/05 12:00	259	1.34112	34.4	23.2	17.8	37	4.12	260	989.16		33	32.3	-0.6
9/21/05 13:00	248	1.34112	35	23.6	18.3	37	3.60	210	988.15		33.6	32.9	-0.7
9/21/05 14:00	219	1.34112	35	23	17.2	35	4.12	220	987.47		32.7	33.2	-0.6
9/21/05 15:00	210	1.34112	35	22.8	16.7	34	4.63	210	986.79		33.7	33.3	-0.4
9/21/05 16:00	205	0.89408	34.4	22.6	16.7	35	3.60	200	986.45		33	32.9	0
9/21/05 17:00	211	0.89408	31.7	22.1	17.2	42	3.60	200	986.12		29.9	30.9	1
9/21/05 18:00	190	0	30.6	22.4	18.3	48	2.57	180	986.12		27.6	29.4	1.8
9/21/05 19:00	211	0	29.4	21.7	17.8	50	3.09	190	986.12		26.7	28.3	1.6
9/21/05 20:00	205	0	28.3	21.4	17.8	53	3.60	200	986.12		25.3	27.3	2
9/21/05 21:00	205	0	27.8	21.3	17.8	55	3.09	180	986.12		25.5	27	1.5
9/21/05 22:00	218	0	26.7	20.9	17.8	58	2.06	170	986.12		25.5	26.8	1.3
9/21/05 23:00	164	0	26.1	21	18.3	62	2.57	170	985.78		24.8	26.3	1.5
9/22/05 0:00	182	0	25	20.7	18.3	66	4.12	160	985.44		23.9	25.7	1.8
9/22/05 1:00	200	0	25	20.4	17.8	64	4.12	170	985.44		23.2	24.9	1.7
9/22/05 2:00	222	0	24.4	20.2	17.8	67	3.09	190	985.10		22.7	24.4	1.7
9/22/05 3:00	212	0	23.9	20	17.8	69	3.09	170	985.10		23	24.2	1.2
9/22/05 4:00	186	0	23.3	19.4	17.2	69	2.57	180	985.44		22.8	24.3	1.5
9/22/05 5:00	205	0.44704	22.8	19.6	17.8	74	3.60	190	985.44		22.6	23.7	1.1
9/22/05 6:00	210	0.44704	23.3	19.4	17.2	69	3.60	180	985.78		21.6	22.9	1.3
9/22/05 7:00	210	0.44704	25	20	17.2	62	4.12	180	985.78		24.1	24	-0.1
9/22/05 8:00	204	0.89408	27.2	21.1	17.8	57	3.09	180	986.12		26.1	25.6	-0.6
9/22/05 9:00	207	1.34112	30	22.2	18.3	50	4.12	190	985.78		28.4	27.6	-0.8
9/22/05 10:00	200	1.34112	31.7	23	18.9	47	5.14	200	985.78		30.7	29.8	-0.8
9/22/05 11:00	204	1.34112	33.3	23.5	18.9	43	6.69	190	985.44		31.8	31.1	-0.7
9/22/05 12:00	199	1.78816	34.4	23.4	18.3	38	5.14	200	984.42		32.7	32.1	-0.7
9/22/05 13:00	209	1.34112	34.4	22.8	17.2	36	5.14	190	983.75		33.5	32.8	-0.7
9/22/05 14:00	202	1.78816	35	22.7	16.7	34	4.63	180	983.41		33.9	33.3	-0.6
9/22/05 15:00	186	1.78816	35	22.4	16.1	32	5.14	200	983.07		33.7	33.4	-0.4
9/22/05 16:00	199	1.34112	33.9	22.1	16.1	34	3.60	190	983.07		33.1	33	-0.2
9/22/05 17:00	174	0.89408	32.8	21.6	15.6	35	3.09	190	983.41		31.2	31.7	0.5
9/22/05 18:00	198	0	31.1	21.6	16.7	42	2.57	180	983.41		27.9	30.5	2.6
9/22/05 19:00	205	0	26.1	21.4	18.9	65	3.09	140	984.08		27.7	30.4	2.7
9/22/05 20:00	99	0	25	21	18.9	69	1.54	170	984.76		26.7	29.8	3
9/22/05 21:00	191	0	24.4	20.8	18.9	72	0.00	0	984.76		25.8	28.2	2.4
9/22/05 22:00	143	0	22.8	20.6	19.4	81	3.09	140	985.44		26.6	28.6	2
9/22/05 23:00	164	0	24.4	20.8	18.9	72	2.06	140	985.10		24.6	26.5	1.9
9/23/05 0:00	190	0	24.4	20.2	17.8	67	3.09	110	984.76		25.5	26.6	1.1
9/23/05 1:00	156	0	21.7	19.5	18.3	81	1.54	310	985.10		24.7	26.3	1.6
9/23/05 2:00	223	0	21.7	19.5	18.3	81	0.00	0	985.10		24.1	26.2	2.1
9/23/05 3:00	130	0	21.1	19.7	18.9	87	0.00	0	985.44		23.3	25.5	2.2
9/23/05 4:00	123	0	21.1	19	17.8	82	2.06	130	986.12		21.7	24.3	2.6
9/23/05 5:00	92	0.89408	20	18.9	18.3	90	3.09	350	987.13		20.6	21.6	1
9/23/05 6:00	69	0.89408	20.6	19.1	18.3	87	1.54	40	987.81		20.8	21.3	0.6
9/23/05 7:00	181	0.44704	22.8	20.6	19.4	81	1.54	330	988.49		22.2	22.1	-0.2
9/23/05 8:00	141	0.44704	26.1	22	20	69	2.06	130	988.83		24.3	23.6	-0.7
9/23/05 9:00	103	0.44704	28.9	22.5	19.4	57	2.57		988.49		27.4	26.5	-0.9
9/23/05 10:00	192	1.34112	30.6	23	19.4	51	3.60	200	988.15		29	28	-1
9/23/05 11:00	195	1.34112	31.7	23.7	20	50	2.06	190	987.47		30.3	29.4	-0.9
9/23/05 12:00	200	0.89408	32.8	23.6	19.4	45	3.60	180	986.79		31.6	30.6	-1
9/23/05 13:00	180	1.34112	33.3	23.1	18.3	41	0.00	0	986.12		32.4	31.5	-0.9
9/23/05 14:00	172	1.34112	32.8	24	20	47	4.63	120	985.44		32.8	32.1	-0.7
9/23/05 15:00	124	1.78816	32.8	24	20	47	4.12	120	984.76		32.5	32	-0.5
9/23/05 16:00	110	1.34112	31.1	23.5	20	52	2.57	120	985.10		31.3	31.2	-0.2
9/23/05 17:00	134	1.34112	28.9	23.9	21.7	65	4.63	120	984.42		29.9	30.2	0.3
9/23/05 18:00	56	0.44704	29.4	23.4	20.6	59	2.57	80	984.76		27.6	28.9	1.2
9/23/05 19:00	191	0	28.3	23.4	21.1	65	2.06	60	985.10		26.5	28.2	1.7
9/23/05 20:													

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{TOT} (%)	PCPN (in)	P _{ABS} (hPa)
9/20/05 0:00	80.6	0.6	2.2	1.6	3	0.2	205.3	6	0	0	0	984.62
9/20/05 1:00	80.4	0.5	2	1.5	2.8	0.2	210.6	6.1	0	0	0	984.82
9/20/05 2:00	80.7	0.4	1.4	1	3.3	0.3	248.3	12.3	0	0	0	984.76
9/20/05 3:00	87.9	0.1	0.9	0.9	2.5	0.2	254.4	9.6	0	0	0	984.93
9/20/05 4:00	90.9	0.3	1.5	1.2	3.3	0.4	35.6	11.6	0	0	0	985.49
9/20/05 5:00	92.7	0.6	1.7	1.2	3	0.3	121.7	8.6	0.1	0	0	986.05
9/20/05 6:00	93.3	0.5	1.6	1.2	3.4	0.3	150.7	9.1	37.3	0.13	0	986.6
9/20/05 7:00	89.2	1.7	2.7	0.9	4.9	0.6	16	11.9	188.1	0.68	0	987.09
9/20/05 8:00	82.3	1.6	2.3	0.8	4.5	0.6	25.7	16.4	388.8	1.4	0	987.47
9/20/05 9:00	75.3	1.2	1.8	0.6	3.8	0.6	81.2	19.8	574.3	2.07	0	987.64
9/20/05 10:00	68.8	1	1.6	0.6	3.2	0.5	133.5	21.2	714.2	2.57	0	987.64
9/20/05 11:00	59.5	0.9	1.5	0.6	4	0.6	180.8	25.9	798.4	2.87	0	987.44
9/20/05 12:00	55.1	0.9	1.4	0.5	4	0.6	70.9	36.7	808	2.91	0	986.93
9/20/05 13:00	50.3	0.8	1.4	0.5	3.6	0.5	228.7	27.3	767.3	2.76	0	986.36
9/20/05 14:00	48.4	0.6	1.3	0.6	3.1	0.5	78.8	24.5	665.4	2.4	0	985.71
9/20/05 15:00	51.4	0.8	1.5	0.8	3.5	0.4	52.9	16.3	508.8	1.83	0	985.34
9/20/05 16:00	53.2	0.5	1.4	0.9	2.7	0.4	62.2	13.4	325.1	1.17	0	985.16
9/20/05 17:00	58.3	0.1	1.1	1	2.1	0.2	61	7.7	128	0.46	0	984.99
9/20/05 18:00	74.7	0	0.8	0.8	1.5	0.1	78.3	2.9	5.7	0.02	0	984.9
9/20/05 19:00	77.7	0	1.1	1.1	1.7	0.1	64.1	4.1	-0.5	0	0	985.25
9/20/05 20:00	78.7	0.3	1.4	1.1	2.7	0.2	44.7	5.5	0	0	0	985.52
9/20/05 21:00	74.6	0.6	1.8	1.2	2.7	0.3	52.3	6.9	0	0	0	985.56
9/20/05 22:00	77.5	0.2	1.6	1.3	2.3	0.2	61.6	6.3	0	0	0	985.46
9/20/05 23:00	79.1	0.6	1.8	1.2	2.6	0.2	76.5	4.4	0	0	0	985.09
9/21/05 0:00	78.8	0.3	1.7	1.4	2.1	0.1	76.4	4.5	0	0	0	984.86
9/21/05 1:00	84.3	0.1	1.6	1.5	2.1	0.1	79.3	4.8	0	0	0	984.57
9/21/05 2:00	87.7	0	0.8	0.8	1.6	0.1	71.3	8.6	0	0	0	984.24
9/21/05 3:00	90.5	0	0.8	0.8	1.3	0.2	85.3	7.1	0	0	0	983.94
9/21/05 4:00	91.7	0	0.7	0.7	1.2	0.1	188.5	5.1	0	0	0	984.03
9/21/05 5:00	94	0	0.5	0.5	1	0.1	169.3	4.6	0.1	0	0	983.99
9/21/05 6:00	91.9	0	0.7	0.7	1.8	0.2	184	11.3	35.9	0.13	0	984.02
9/21/05 7:00	81.1	0.2	0.9	0.8	2.5	0.3	167.8	15.8	198.4	0.71	0	984.31
9/21/05 8:00	72.6	1.4	2.1	0.8	3.8	0.5	184.8	11.2	388.2	1.4	0	984.53
9/21/05 9:00	63.4	1.6	2.2	0.6	5.1	0.5	204.7	15	553.9	1.99	0	984.63
9/21/05 10:00	51.9	1.8	2.6	0.8	5.9	0.6	212.3	15.4	700.5	2.52	0	984.34
9/21/05 11:00	48.8	2.1	2.9	0.8	6	0.7	193.4	13.2	772.9	2.78	0	983.87
9/21/05 12:00	45.5	2.3	3.2	0.9	5.4	0.7	203.8	13.8	712.2	2.56	0	983.15
9/21/05 13:00	43.2	2.4	3.6	1.1	6.2	0.7	185.5	13.1	755.2	2.72	0	982.09
9/21/05 14:00	40.8	2.4	3.5	1.2	6	0.7	190.6	10.1	653.2	2.35	0	981.27
9/21/05 15:00	41.4	1.8	2.7	0.9	5.1	0.5	191.4	10.6	492.8	1.77	0	980.59
9/21/05 16:00	43.7	1.3	2.2	0.9	4.2	0.5	168.4	11.8	307.3	1.11	0	980.06
9/21/05 17:00	52.6	0.9	2.2	1.3	3.4	0.4	157.7	8	81.3	0.29	0	979.76
9/21/05 18:00	60	0.7	2.3	1.6	3.9	0.4	157.8	8.1	6.4	0.02	0	979.54
9/21/05 19:00	60.7	0.7	2.2	1.5	3.5	0.3	159.5	8.5	-0.3	0	0	979.57
9/21/05 20:00	66.6	0.5	2.2	1.7	3.6	0.3	165.4	7	0	0	0	979.67
9/21/05 21:00	63.9	1.3	3	1.7	4.6	0.4	175.2	7.2	0	0	0	979.67
9/21/05 22:00	60.8	1.5	3.2	1.7	4.9	0.5	178.2	8.2	0	0	0	979.48
9/21/05 23:00	62.2	0.9	2.5	1.6	4	0.3	178.6	7.4	0	0	0	979.23
9/22/05 0:00	64.9	0	1.8	1.8	3	0.2	178.1	7.1	0	0	0	979
9/22/05 1:00	66.9	0.5	2	1.5	4.2	0.3	175.5	8.5	0	0	0	978.9
9/22/05 2:00	69.7	0.4	2	1.6	4.1	0.4	166.3	9.9	0	0	0	978.63
9/22/05 3:00	67.3	1.4	2.6	1.3	5.1	0.5	176.1	9.6	0	0	0	978.43
9/22/05 4:00	68	1.1	2.7	1.6	4.2	0.3	178.1	7.4	0	0	0	978.58
9/22/05 5:00	68.7	1.4	2.8	1.4	4.6	0.4	177	8.3	0.1	0	0	978.66
9/22/05 6:00	73.4	0.4	1.9	1.5	3.4	0.3	174.9	9.3	23.8	0.09	0	978.89
9/22/05 7:00	67.6	1	2	1	3.7	0.3	178.3	9.8	198.7	0.72	0	979.03
9/22/05 8:00	61.8	1.9	2.7	0.9	4.6	0.5	169.8	11.1	402.1	1.45	0	979.11
9/22/05 9:00	59.5	2	2.9	0.9	4.7	0.6	175.7	11.3	576	2.07	0	979.24
9/22/05 10:00	52.7	2.4	3.5	1	5.6	0.7	169.8	13.2	710.7	2.56	0	979.13
9/22/05 11:00	50	2.6	3.7	1	6.5	0.8	158.5	14.4	786.7	2.83	0	978.86
9/22/05 12:00	45.5	3.2	4.5	1.3	7.7	0.9	164.7	13.1	802.9	2.89	0	978.46
9/22/05 13:00	42.5	2.7	4	1.3	7.6	0.9	171.8	13.4	756.8	2.72	0	977.78
9/22/05 14:00	40.9	2.3	3.3	1	6.4	0.8	160.3	13.5	642.6	2.31	0	977.31
9/22/05 15:00	39.7	2.2	3.2	1	6.3	0.8	183.8	13.1	501.4	1.81	0	976.94
9/22/05 16:00	41.1	1.2	2	0.8	4.4	0.5	169.3	13.8	307.9	1.11	0	976.86
9/22/05 17:00	49.6	0.1	1.1	1.1	2.8	0.2	143.3	7.5	110.3	0.4	0	977.02
9/22/05 18:00	55.8	0.1	1.7	1.7	2.6	0.2	168.3	7.5	4.5	0.02	0	977.18
9/22/05 19:00	53	0	1.7	1.7	2.7	0.3	170	8.4	-0.7	0	0	977.52
9/22/05 20:00	57.3	0.2	1.9	1.7	2.8	0.2	143.3	5.5	-0.2	0	0	978.04
9/22/05 21:00	59.8	0.1	2	1.9	3	0.3	134.3	7.3	-0.1	0	0	978.51
9/22/05 22:00	55.2	0.4	2.1	1.6	3.5	0.4	174.6	9.9	0	0	0	978.61
9/22/05 23:00	64.9	0.9	2.1	1.5	5	0.5	111	12	-0.2	0	0	978.8
9/23/05 0:00	60.5	1.8	3.2	1.3	5.1	0.6	146.8	10.7	0	0	0	978.68
9/23/05 1:00	61.9	0.8	2	1.1	3.3	0.4	184.3	9.8	0	0	0	978.68
9/23/05 2:00	63.3	0.1	1.3	1.2	3	0.3	151.4	9.6	0	0	0	978.58
9/23/05 3:00	68.2	0.3	1.6	1.2	3.4	0.3	168.9	11.4	0	0	0	978.97
9/23/05 4:00	76.1	0.2	1.2	1	2.9	0.2	68.8	11.6	0	0	0	979.55
9/23/05 5:00	83.4	1	2.1	1.1	4.3	0.4	57.3	11	0	0	0	980.48
9/23/05 6:00	84.9	1.6	2.6	1	4	0.4	43.9	8.5	26.4	0.1	0	981.04
9/23/05 7:00	80.3	1.5	2.3	0.8	3.8	0.4	59.6	9.5	167.4	0.6	0	981.72
9/23/05 8:00	74.5	1.3	2	0.8	3.6	0.4	86.1	12.1	360.2	1.3	0	982.02
9/23/05 9:00	63.9	1.2	1.8	0.6	3.8	0.6	125.7	17.7	528.8	1.9	0	982.1
9/23/05 10:00	59	1.5	2.2	0.7	4.7	0.6	181	19.6	650.1	2.34	0	981.92
9/23/05 11:00	56.1	1.8	2.6	0.7	5.1	0.7	155.3	17.5	736.9	2.65	0	981.48
9/23/05 12:00	50	2.1	2.8	0.7	5.9	0.7	182.3	19	758.1	2.73	0	980.8
9/23/05 13:00	47.8	2	2.9	0.9	6.3	0.7	181.2	16.1	718.9	2.59	0	980.04
9/23/05 14:00	45.3	1.9	2.8	0.9	5.1	0.6	162.2	16.5	623.4	2.24	0	979.38
9/23/05 15:00	45.2	1.6	2.4	0.8	4.6	0.5	109.3	13.5	445.9	1.61	0	978.93
9/23/05 16:00	51.6	1.8	2.8	1	5.1	0.6	119.5	10.9	318	1.14	0	978.54
9/23/05 17:00	56.3	0.1	1.1	0.9	2.5	0.3	91.7	10.7	108.1	0.39	0	978.64
9/23/05 18:00	65.3	0.1	1.5	1.3	2.5	0.2	67	8.6	5.8	0.02	0	978.58
9/23/05 19:00	69	0.1	1.5	1.4	2.9	0.2	55.6	7.9	-1	0	0	978.74
9/23/05 20:00	70.4	0.1	1.4	1.3	2.5	0.3	75.8	8.7	-0.8	0	0	979.39
9/23/05 21:00	71.7	0.3	1.5	1.3	3.1	0.2	76.8	8.6	-0.5	0	0	979.67
9/23/05 22:00	75.5	0.1	1.4	1.3	2.8	0.2	78.8	7.7	-0.3	0	0	979.77
9/23/05 23:00	77.3	0	1.6	1.6	2.3	0.1	64.4	5.4	-0.1	0	0	979.76
9/24/05 0:00	76.9	0.2	1.8	1.6	2.5	0.2	65.3	6.1	0	0	0	979.48
9/24/05 1:00	77.6	0.4	1.8	1.4	2.7	0.2	75.8	7.3	0	0	0	979.43
9/24/05 2:00	78.7	0.7	1.9	1.3	3.3	0.3	77.1	7.5	0	0	0	979.26
9/24/05 3:00	80	0.4	1.9	1.5	3.5	0.3	81.1	8.5				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK			1127							T _a (°C)	RH (%)	
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)			PM _{2.5} (μg/m ³)
9/24/05 15:00	0.04353						0.037	0.001	0.002	0.002	17.9	29.44	62
9/24/05 16:00	0.04208						0.032	0.001	0.003	0.003	17.4	28.33	65
9/24/05 17:00	0.03221						0.025	0.001	0.005	0.005	18	27.78	66
9/24/05 18:00	0.03092						0.024	0	0.002	0.002	16.4	27.22	69
9/24/05 19:00	0.02819						0.022	0	0.002	0.002	17.2	26.67	70
9/24/05 20:00	0.02441						0.022	0	0.001	0.001	20.3	26.11	71
9/24/05 21:00	0.02021						0.019	0.001	0.003	0.003	17.4	25.00	75
9/24/05 22:00	0.0246						0.02	0	0	0	17.3	25.00	77
9/24/05 23:00	0.02557						0.018	0	0.001	0.001	17.7	24.44	79
9/25/05 0:00	0.02492						0.019	0	0	0	20.1	23.89	79
9/25/05 1:00	0.02369						0.018	0	0	0	18.5	23.33	83
9/25/05 2:00	0.02259						0.02	0	0	0	18	23.33	83
9/25/05 3:00	0.0213						0.02	0	0	0	18.3	22.78	84
9/25/05 4:00	0.02247						0.02	0	0	0	17.9	22.78	84
9/25/05 5:00	0.02255						0.02	0	0	0	16.8	22.78	85
9/25/05 6:00	0.02119						0.019	0	0	0	17.4	22.78	84
9/25/05 7:00	0.02016						0.02	0	0	0	18.3	23.89	81
9/25/05 8:00	0.0184						0.022	0	0	0	18.5	25.00	75
9/25/05 9:00	0.02032						0.026	0	0	0	17	26.67	69
9/25/05 10:00	0.02406						0.031	0	0	0	15.2	27.78	64
9/25/05 11:00	0.02814						0.034	0	0	0	14.9	28.89	60
9/25/05 12:00	0.02984						0.034	0	0	0	12.4	30.56	55
9/25/05 13:00	0.03174						0.036	0	0	0	12.7	31.11	51
9/25/05 14:00	0.03334						0.037	0	0	0	11.7	31.67	51
9/25/05 15:00	0.03425						0.038	0	0	0	12	32.22	50
9/25/05 16:00	0.03725						0.038	0	0	0	12.9	32.22	50
9/25/05 17:00	0.03745						0.029	0.001	0.003	0.004	13.3	31.67	55
9/25/05 18:00	0.03463						0.013	0.005	0.013	0.018	12.5	27.78	70
9/25/05 19:00	0.02644						0.001	0.024	0.017	0.042	14.5	25.56	81
9/25/05 20:00	0.01905						0	0.031	0.013	0.044	17.8	24.44	86
9/25/05 21:00	0.03316						0	0.032	0.01	0.042	15.3	23.33	90
9/25/05 22:00	0.03505						0	0.013	0.008	0.021	17.4	22.78	91
9/25/05 23:00	0.03763						0	0.027	0.007	0.033	16.1	22.22	93
9/26/05 0:00	0.03935						0	0.026	0.005	0.032	16.3	21.67	93
9/26/05 1:00	0.03984						0	0.027	0.006	0.033	15	21.67	94
9/26/05 2:00	0.04311						0	0.014	0.008	0.022	15	21.11	94
9/26/05 3:00	0.0444						0	0.016	0.004	0.02	17.5	21.11	94
9/26/05 4:00	0.04215						0.005	0.001	0.011	0.011	20.2	22.22	90
9/26/05 5:00	0.02348						0	0.02	0.008	0.028	21	21.11	93
9/26/05 6:00	0.02323						0.007	0.004	0.003	0.007	19.9	21.67	90
9/26/05 7:00	0.01173						0.011	0.002	0	0	17.5	22.22	84
9/26/05 8:00	0.01156						0.014	0.002	0	0	15.8	22.78	81
9/26/05 9:00	0.01264						0.016	0.002	0	0	17.9	22.78	82
9/26/05 10:00	0.01486						0.022	0.003	0	0.002	13.8	24.44	74
9/26/05 11:00	0.02044						0.031	0.001	0	0	16.9	26.67	66
9/26/05 12:00	0.02881						0.036	0.001	0	0	14.9	27.22	63
9/26/05 13:00	0.03477						0.04	0.001	0	0	14.7	28.33	58
9/26/05 14:00	0.03907						0.042	0.002	0	0.001	15.4	28.89	55
9/26/05 15:00	0.03962						0.043	0.001	0	0	14.3	28.89	53
9/26/05 16:00	0.04209						0.044	0	0	0	13.3	28.33	53
9/26/05 17:00	0.04178						0.041	0	0.001	0.001	13.8	27.22	56
9/26/05 18:00	0.04125						0.038	0	0.003	0.003	16.3	25.00	62
9/26/05 19:00	0.03578						0.032	0	0.005	0.005	17.8	23.33	68
9/26/05 20:00	0.03554						0.027	0	0.005	0.005	17.8	22.22	73
9/26/05 21:00	0.03399						0.023	0	0.004	0.004	16.1	21.11	79
9/26/05 22:00	0.03784						0.02	0	0.003	0.004	16.4	20.00	80
9/26/05 23:00	0.03204						0.016	0	0.003	0.002	16.9	18.89	84
9/27/05 0:00	0.02953						0.018	0	0	0	17.9	18.33	86
9/27/05 1:00	0.02582						0.013	0	0	0	16.9	17.22	89
9/27/05 2:00	0.02401						0.013	0	0	0	18.6	16.67	92
9/27/05 3:00	0.02317						0.011	0	0	0	17.1	16.67	92
9/27/05 4:00	0.02138						0.01	0.001	0.001	0.002	16.6	16.11	92
9/27/05 5:00	0.01922						0.008	0.001	0.003	0.004	18.7	16.11	93
9/27/05 6:00	0.01946						0.005	0.013	0.005	0.018	17.4	16.11	93
9/27/05 7:00	0.01535						0.006	0.013	0.004	0.017	17.2	17.22	89
9/27/05 8:00	0.0127						0.012	0.008	0.002	0.011	14.8	19.44	81
9/27/05 9:00	0.01208						0.019	0.006	0.003	0.009	15.9	22.22	73
9/27/05 10:00	0.009642						0.03	0.002	0.001	0.003	15	23.89	67
9/27/05 11:00	0.01935						0.041	0	0	0	14.9	25.56	62
9/27/05 12:00	0.0258						0.047	0	0.003	0.003	20.4	27.22	57
9/27/05 13:00	0.03848						0.051	0.001	0.007	0.008	19.2	28.89	49
9/27/05 14:00	0.03446						0.062	0.001	0.008	0.008	18.5	30.56	41
9/27/05 15:00	0.04202						0.055	0.002	0.015	0.017	19.8	30.56	41
9/27/05 16:00	0.05844						0.061	0	0.011	0.011	17.1	31.11	39
9/27/05 17:00	0.05373						0.044	0.002	0.019	0.021	18.3	28.89	44
9/27/05 18:00	0.05758						0.011	0.019	0.034	0.054	20.2	23.89	67
9/27/05 19:00	0.056						0	0.029	0.033	0.062	20.9	21.11	80
9/27/05 20:00	0.0442						0	0.04	0.028	0.068	25.6	20.00	86
9/27/05 21:00	0.04789						0	0.043	0.023	0.065	23	20.00	88
9/27/05 22:00	0.04636						0.012	0.012	0.02	0.032	20.6	21.67	85
9/27/05 23:00	0.03685						0.029	0	0.001	0	25.5	22.78	84
9/28/05 0:00	0.03781						0.025	0	0	0	24	22.78	87
9/28/05 1:00	0.03505						0.022	0	0	0	26.1	22.22	89
9/28/05 2:00	0.02535						0.022	0	0	0	26.8	22.22	89
9/28/05 3:00	0.02571						0.022	0	0	0	29.3	22.22	90
9/28/05 4:00	0.02403						0.022	0	0	0	28.2	22.22	90
9/28/05 5:00	0.02557						0.018	0	0.003	0.001	29.1	22.22	90
9/28/05 6:00	0.02084						0.014	0	0.008	0.007	29.5	22.78	90
9/28/05 7:00	0.02068						0.014	0	0.008	0.008	30.1	22.78	89
9/28/05 8:00	0.02152						0.02	0	0.003	0.003	34.1	23.89	86
9/28/05 9:00	0.02031						0.022	0	0	0	42.5	25.00	83
9/28/05 10:00	0.02409						0.031	0	0	0	45.9	26.67	77
9/28/05 11:00	0.03266						0.04	0	0	0	48.5	28.33	71
9/28/05 12:00	0.03828						0.048	0	0.003	0.003	46.8	30.00	67
9/28/05 13:00	0.04409						0.056	0	0.004	0.004	42.6	30.56	61
9/28/05 14:00	0.05362						0.054	0	0.004	0.005	25.4	30.00	55
9/28/05 15:00	0.05407						0.045	0.001	0.004	0.004	22	26.67	56
9/28/05 16:00	0.04531						0.038	0.001	0.004	0.006	18.2	23.33	57
9/28/05 17:00	0.03715						0.037	0.001	0.005	0.006	16.9	22.22	54
9/28/05 18:00	0.03765						0.032	0.002	0.005	0.007	14.7	19.44	56
9/28/05 19:00	0.03141						0.029	0.002	0.005	0.007	11.8	18.33	61
9/28/05 20:00	0.02606						0.026	0.002	0.005	0.007	11.9	17.22	61
9/28/05 21:00	0.02509						0.023	0.001	0.006	0.008	11.7	15.56	67
9/28/05 22:00	0.02489						0.022	0	0.006	0.006	11.8	15.00	71
9/28/05 23:00	0.02287						0.022	0.001					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _O (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
9/24/05 15:00	64	2.2352	29.4	23.7	21.1	61	4.63	70	981.38	28.4	28.3	0
9/24/05 16:00	74	1.78816	28.3	23.1	20.6	63	3.60	60	981.04	27.3	27.5	0.2
9/24/05 17:00	63	1.34112	27.8	22.9	20.6	65	4.12	50	981.04	26.3	26.7	0.4
9/24/05 18:00	61	1.78816	26.7	22.6	20.6	69	4.12	80	980.70	25.3	25.8	0.5
9/24/05 19:00	72	1.78816	26.7	22.6	20.6	69	3.60	80	980.70	25.1	25.6	0.5
9/24/05 20:00	90	1.34112	25.6	22.2	20.6	74	3.09	70	980.70	24.5	24.9	0.4
9/24/05 21:00	59	1.34112	25.6	22.2	20.6	74	4.12	40	980.36	24.1	24.6	0.5
9/24/05 22:00	51	2.2352	25	22.1	20.6	77	4.12	30	980.36	23.3	23.8	0.5
9/24/05 23:00	40	2.2352	25	22.1	20.6	77	5.14	20	979.68	23.2	23.6	0.4
9/25/05 0:00	52	2.2352	25	21.7	20	74	4.12	30	978.67	22.9	23.3	0.4
9/25/05 1:00	116	1.78816	23.9	21.3	20	79	3.60	360	978.33	22.8	23.3	0.5
9/25/05 2:00	114	2.2352	22.2	21.1	20.6	91	4.63	340	978.33	22.2	22.7	0.5
9/25/05 3:00	197	2.2352	22.2	20.8	20	87	5.14	350	978.67	21.8	22.2	0.4
9/25/05 4:00	125	2.2352	22.2	20.8	20	87	4.63	360	978.67	21.6	22.1	0.4
9/25/05 5:00	131	2.2352	22.2	20.8	20	87	5.14	350	979.00	21.6	22	0.5
9/25/05 6:00	114	2.2352	22.2	20.8	20	87	5.14	360	979.68	21.7	22.1	0.3
9/25/05 7:00	125	2.68224	24.4	21.9	20.6	79	6.17	360	980.36	23.2	23	-0.2
9/25/05 8:00	62	3.12928	26.1	22.7	21.1	74	5.14	10	980.70	25.2	24.6	-0.6
9/25/05 9:00	98	2.68224	27.8	23.2	21.1	67	4.63	10	980.70	27.1	26.1	-0.9
9/25/05 10:00	86	2.68224	28.3	23.4	21.1	65	4.12	20	981.04	28.2	27.3	-0.9
9/25/05 11:00	88	2.2352	29.4	23.7	21.1	61	2.57	300	981.04	29.4	28.6	-0.8
9/25/05 12:00	194	2.2352	30.6	24	21.1	57	4.12	10	980.70	30.8	29.9	-0.9
9/25/05 13:00	184	2.2352	32.2	24.4	21.1	52	4.12	360	980.02	31.4	30.6	-0.8
9/25/05 14:00	100	1.34112	32.2	24.1	20.6	50	1.54	360	980.02	31.4	30.8	-0.6
9/25/05 15:00	121	0.89408	32.8	24.3	20.6	49	3.09	340	980.02	31.5	31.1	-0.5
9/25/05 16:00	135	0.89408	32.2	24.1	20.6	50	1.54	350	980.36	31.2	30.9	-0.2
9/25/05 17:00	92	0.89408	30.6	23.7	20.6	55	1.54	20	981.04	29.7	30.1	0.3
9/25/05 18:00	163	0	28.3	23.1	20.6	63	1.54	70	981.71	26	28.7	2.7
9/25/05 19:00	172	0	27.2	23	21.1	69	1.54	140	982.39	25.8	27.9	2.1
9/25/05 20:00	156	0	26.1	22.7	21.1	74	2.06	110	982.73	25.3	27.6	2.3
9/25/05 21:00	225	0	25.6	22.6	21.1	76	2.06	140	983.07	25	26.8	1.8
9/25/05 22:00	157	0	24.4	21.9	20.6	79	1.54	140	983.07	25.2	26.6	1.4
9/25/05 23:00	205	0	25	22.1	20.6	77	1.54	140	983.07	25	26.2	1.2
9/26/05 0:00	190	0	23.3	21.1	20	82	2.57	150	983.41	24.9	25.9	1
9/26/05 1:00	226	0	24.4	21.9	20.6	79	3.60	170	983.75	24.6	25.5	1
9/26/05 2:00	161	0	23.9	21.7	20.6	82	0.00	0	984.08	23.1	24.5	1.4
9/26/05 3:00	120	0.44704	21.7	20.6	20	90	6.69	340	985.10	22.3	23.1	0.7
9/26/05 4:00	156	0.44704	21.7	20.6	20	90	2.57	360	985.78	22.1	23.3	1.2
9/26/05 5:00	111	0	21.7	20.6	20	90	3.60	320	986.45	21.1	21.5	0.4
9/26/05 6:00	196	1.78816	21.1	20.4	20	93	6.17	340	988.15	20.2	20.5	0.3
9/26/05 7:00	114	2.2352	22.2	20.8	20	87	4.63	360	988.49	21	21	0
9/26/05 8:00	48	3.57632	23.3	21.1	20	82	5.66	10	989.16	21.6	21.5	-0.1
9/26/05 9:00	52	4.02336	23.9	21.7	20.6	82	5.14	20	989.84	23.7	22.9	-0.8
9/26/05 10:00	47	3.57632	26.7	22.6	20.6	69	5.14	20	990.18	25.5	24.7	-0.8
9/26/05 11:00	57	4.02336	27.2	22.4	20	65	6.17	20	990.18	26.5	25.7	-0.9
9/26/05 12:00	46	4.4704	28.3	22.7	20	61	7.72	30	989.84	27.2	26.4	-0.7
9/26/05 13:00	43	4.91744	28.9	22.5	19.4	57	7.72	30	989.84	27.7	26.9	-0.7
9/26/05 14:00	50	4.4704	30	22.8	19.4	53	6.17	20	989.84	27.8	27.2	-0.7
9/26/05 15:00	42	4.02336	29.4	22.4	18.9	53	5.66	20	990.18	27.5	27	-0.4
9/26/05 16:00	38	4.02336	28.3	21.7	18.3	55	6.17	360	990.18	26.5	26.5	0
9/26/05 17:00	34	3.57632	25.6	20.6	17.8	62	4.63	360	990.52	25	25.4	0.4
9/26/05 18:00	35	2.68224	23.3	19.4	17.2	69	3.60	10	991.20	23	24	1
9/26/05 19:00	32	2.2352	23.3	19.4	17.2	69	3.09	30	991.53	22.1	22.9	0.9
9/26/05 20:00	33	1.78816	20.6	18.5	17.2	81	3.09	350	992.21	21.2	22	0.8
9/26/05 21:00	47	1.34112	19.4	17.7	16.7	84	2.57	360	992.55	20	20.8	0.8
9/26/05 22:00	39	1.34112	18.3	17	16.1	87	2.57	360	992.55	18.1	19.8	0.7
9/26/05 23:00	39	0.89408	17.8	16.8	16.1	90	3.09	360	992.55	18.2	19	0.8
9/27/05 0:00	35	1.34112	16.7	16	15.6	93	2.06	10	992.55	17.6	18.3	0.7
9/27/05 1:00	52	0.44704	17.8	16.8	16.1	90	2.57	20	992.55	16.6	17.4	0.8
9/27/05 2:00	39	0.89408	16.1	15.5	15	93	2.06	350	992.21	16	16.7	0.7
9/27/05 3:00	41	0.89408	16.1	15.5	15	93	2.06	360	992.21	15.8	16.5	0.7
9/27/05 4:00	45	0.89408	15.6	14.9	14.4	93	2.06	320	992.55	15.6	16.3	0.7
9/27/05 5:00	40	0.89408	15	14.4	13.9	93	2.57	350	992.55	15.5	16.1	0.6
9/27/05 6:00	38	1.34112	15	14.7	14.4	96	2.06	330	992.55	15.4	15.9	0.5
9/27/05 7:00	51	1.34112	18.3	17	16.1	87	2.06	10	992.89	17.1	17	-0.1
9/27/05 8:00	61	1.78816	21.1	18.4	16.7	76	2.57	60	992.89	19.8	19.3	-0.5
9/27/05 9:00	72	1.34112	22.8	19.3	17.2	71	1.54	50	992.55	22.4	21.6	-0.8
9/27/05 10:00	74	1.34112	25.6	20.2	17.2	60	2.06	60	992.21	23.9	22.8	-1.1
9/27/05 11:00	147	0.89408	27.2	21.4	18.3	58	0.00	0	991.20	25.1	24.5	-0.6
9/27/05 12:00	206	0.89408	27.8	21.3	17.8	55	0.00	0	990.52	26.9	26	-0.9
9/27/05 13:00	197	0.89408	28.9	21	16.7	48	1.54	360	989.16	27.9	27.1	-0.8
9/27/05 14:00	199	0.89408	30.6	21.8	17.2	45	1.54	360	988.15	28.8	28.1	-0.7
9/27/05 15:00	179	0.89408	30	21	16.1	43	1.54	360	987.47	29	28.5	-0.5
9/27/05 16:00	216	0.44704	30.6	20.3	14.4	37	0.00	0	987.13	28.4	28.2	-0.2
9/27/05 17:00	144	0.89408	28.3	20.8	16.7	49	2.06	70	986.45	26.5	27.3	0.8
9/27/05 18:00	184	0	26.1	20.1	16.7	56	2.06	80	986.45	22.6	26.1	3.5
9/27/05 19:00	253	0	23.3	19.8	17.8	71	1.54	120	986.45	22.7	24.7	2
9/27/05 20:00	229	0	22.2	19.1	17.2	73	2.57	140	986.45	22.2	24.4	2.2
9/27/05 21:00	183	0	23.3	20.1	18.3	74	3.60	150	986.12	22.7	23.8	1.1
9/27/05 22:00	160	0.89408	23.9	21.3	20	79	3.60	160	985.78	21.7	22.5	0.9
9/27/05 23:00	175	0.89408	23.3	21.5	20.6	85	4.12	160	985.44	21.8	22.4	0.7
9/28/05 0:00	180	0.89408	22.8	21.3	20.6	87	3.09	170	985.10	21.7	22.2	0.5
9/28/05 1:00	189	0.44704	22.8	21.3	20.6	87	4.63	170	985.10	21.1	21.7	0.6
9/28/05 2:00	199	0.89408	22.8	21.3	20.6	87	4.63	170	984.42	21	21.6	0.5
9/28/05 3:00	192	0.89408	22.8	21.3	20.6	87	4.12	170	984.42	21.3	21.7	0.5
9/28/05 4:00	190	1.34112	22.8	21.3	20.6	87	4.63	180	984.76	21.3	21.8	0.4
9/28/05 5:00	178	1.34112	22.2	21.1	20.6	91	5.14	180	984.76	21.6	22	0.4
9/28/05 6:00	190	1.78816	22.2	21.1	20.6	91	4.12	170	984.76	21.9	22.2	0.3
9/28/05 7:00	193	2.2352	23.3	21.8	21.1	88	4.63	180	984.76	22.3	22.5	0.3
9/28/05 8:00	201	2.2352	24.4	22.2	21.1	82	6.69	190	984.42	22.8	23	0.2
9/28/05 9:00	202	1.78816	26.7	23.3	21.7	74	8.23	200	984.42	23.8	23.9	0.1
9/28/05 10:00	210	1.78816	27.8	23.9	22.2	72	5.14	230	984.76	25.4	25.2	-0.2
9/28/05 11:00	219	0.89408	28.9	24.2	22.2	67	4.12	230	984.76	28.1	27.5	-0.5
9/28/05 12:00	235	1.34112	30	24.9	22.8	65	2.57	270	984.76	29.4	29.1	-0.3
9/28/05 13:00	286	2.2352										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	St _{ROT} (%)	PCPN (in)	P _{ABS} (hPa)
9/24/05 15:00	63	2	3.1	1.1	6	0.8	76.5	14.9	252.6	0.91	0	975.66
9/24/05 16:00	68.2	1.5	2.6	1.1	5.2	0.7	83.2	13.8	114.3	0.41	0	975.26
9/24/05 17:00	71.3	1.1	2.1	1	3.7	0.5	65.1	13	41.4	0.15	0	974.72
9/24/05 18:00	75.2	0.9	2	1	4.7	0.5	74.5	14.2	6.2	0.02	0	974.67
9/24/05 19:00	74.7	1.8	2.8	1	6	0.7	70.8	14.6	-0.9	0	0	974.77
9/24/05 20:00	78.1	1.5	2.5	1	5.1	0.6	71.3	14.2	-1	0	0	974.95
9/24/05 21:00	79.8	1.6	2.5	0.9	4.5	0.6	51.3	14.4	-1	0	0	974.79
9/24/05 22:00	83.3	1.3	2.2	0.9	4.2	0.5	49.5	13.2	-1	0	0	974.71
9/24/05 23:00	83.3	1.9	2.8	0.9	5.7	0.8	46.4	15.3	-0.8	0	0	973.94
9/25/05 0:00	83.9	1.9	2.9	1	5.3	0.7	34	15.7	-0.8	0	0	973.43
9/25/05 1:00	84	2.4	3.6	1.2	6.8	0.8	43.6	13.5	-0.8	0	0	972.97
9/25/05 2:00	86.3	1.8	2.9	1.1	5.4	0.6	124.7	12.7	-0.8	0	0	972.56
9/25/05 3:00	89.2	2.1	3.4	1.3	6.9	0.7	320.6	11.5	-0.6	0	0	972.85
9/25/05 4:00	89.4	2.6	4	1.5	7.1	0.8	63.8	10.9	-0.3	0	0	972.84
9/25/05 5:00	89.5	2.5	3.7	1.2	6.6	0.7	38.8	11.6	-0.4	0	0	973.16
9/25/05 6:00	89	2.4	3.7	1.3	7.1	0.8	9.8	12.3	29.8	0.11	0	973.61
9/25/05 7:00	84.1	1.8	2.8	1	5.4	0.7	293.1	13.9	193.1	0.7	0	974.19
9/25/05 8:00	76.4	2.2	3.1	1	5.6	0.8	40	15	386.3	1.39	0	974.49
9/25/05 9:00	68.8	1.9	2.7	0.9	5.7	0.8	66.4	17.1	560.8	2.02	0	974.71
9/25/05 10:00	63.8	1.8	2.5	0.8	5.1	0.8	38.3	19.8	663.7	2.39	0	974.9
9/25/05 11:00	59.1	1.7	2.5	0.8	5.6	0.9	170.5	20.3	762	2.74	0	974.98
9/25/05 12:00	53.3	1.8	2.7	0.9	5.5	0.8	227.8	23	777.3	2.8	0	974.76
9/25/05 13:00	51.6	1.4	2.2	0.7	5	0.8	97.8	20.6	726	2.61	0	974.03
9/25/05 14:00	52.4	1.2	1.9	0.6	4.4	0.6	85.8	21.7	623.3	2.24	0	973.84
9/25/05 15:00	51.1	0.8	1.3	0.6	2.9	0.5	85.7	23.8	472.8	1.7	0	973.78
9/25/05 16:00	52.3	0.8	1.5	0.7	2.9	0.4	117.3	12.2	289.8	1.04	0	974.25
9/25/05 17:00	57.2	0.1	1	0.9	1.8	0.2	100	7.8	103.7	0.37	0	974.63
9/25/05 18:00	70.8	0	0.9	0.9	1.5	0.1	123.6	6.6	2.8	0.01	0	975.21
9/25/05 19:00	69.9	0	0.7	0.7	1.2	0.1	125.8	6.2	-1	0	0	975.84
9/25/05 20:00	72.7	0.1	1.6	1.4	2.9	0.2	128.3	4.9	0	0	0	976.35
9/25/05 21:00	75.5	0.4	1.9	1.5	3.3	0.3	119.2	8.5	0	0	0	976.56
9/25/05 22:00	75.1	0.3	1.9	1.5	3.2	0.3	144.4	9.7	0	0	0	976.72
9/25/05 23:00	75.1	0.6	1.7	1.1	3.2	0.4	160.8	12.5	0	0	0	976.77
9/26/05 0:00	75	1.1	2.1	1	3.8	0.5	167.8	12.7	-0.2	0	0	976.81
9/26/05 1:00	76	0.6	1.7	1.1	3.5	0.4	167.3	13.6	0	0	0	977.22
9/26/05 2:00	82.1	0.3	1	0.7	4.9	0.3	227.9	12.3	-0.2	0	0	977.64
9/26/05 3:00	87.3	0.9	1.9	1.1	4.3	0.5	292.4	14.7	0	0	0	978.52
9/26/05 4:00	86.3	0.3	1.5	1.2	4.2	0.3	308.7	9.6	-0.1	0	0	979.2
9/26/05 5:00	89.9	1.8	2.9	1.1	5.7	0.8	260.4	14.6	-0.2	0	0	979.98
9/26/05 6:00	89.8	2.9	4.3	1.5	7.9	1.1	321.8	14.1	27	0.1	0	981.04
9/26/05 7:00	87.5	2.4	3.5	1.1	7.5	0.9	14.4	14.6	131.3	0.47	0	981.75
9/26/05 8:00	86.5	2.4	3.7	1.2	8.7	1.1	38.3	15.5	165.9	0.6	0	982.62
9/26/05 9:00	77.2	3.3	4.7	1.4	8	0.9	12	12.9	526	1.89	0	983.31
9/26/05 10:00	69.8	3.5	4.9	1.4	9.4	1.2	39.5	15.3	638.2	2.3	0	983.78
9/26/05 11:00	65.7	3.4	4.9	1.4	9.1	1.2	18.3	15.5	741.3	2.67	0	984.06
9/26/05 12:00	61.8	3.7	5	1.3	10.3	1.2	23.8	16.4	735.7	2.65	0	984.05
9/26/05 13:00	58.4	3.6	5.1	1.5	8.9	1.2	23.2	16.2	720.8	2.6	0	983.88
9/26/05 14:00	57	3.1	4.3	1.2	7.9	1.1	16.7	16.5	627	2.26	0	983.95
9/26/05 15:00	56.8	3	4.2	1.2	7.5	1	18.4	14.5	480.7	1.73	0	983.97
9/26/05 16:00	56.8	3	4.3	1.2	7.8	1	24.2	14.5	294.7	1.06	0	984.17
9/26/05 17:00	61.6	2	2.9	0.9	6.1	0.7	32.6	13	99.7	0.36	0	984.39
9/26/05 18:00	67.7	1.5	2.5	1	4.7	0.5	20.3	12.1	2.8	0.01	0	984.65
9/26/05 19:00	70.2	1.7	2.7	1	4.8	0.6	20.4	11.9	-0.8	0	0	985.04
9/26/05 20:00	71.3	2.1	3.1	1.1	5.6	0.7	19.8	12.5	-0.1	0	0	985.48
9/26/05 21:00	75.3	1.6	2.5	0.9	5.4	0.6	27.8	14.3	0	0	0	985.81
9/26/05 22:00	78.6	1.4	2.2	0.8	4.5	0.6	38	13.8	0	0	0	985.98
9/26/05 23:00	81.8	1.4	2.3	0.9	4.4	0.5	34.3	13.6	0	0	0	985.99
9/27/05 0:00	84.5	1.5	2.3	0.8	4.7	0.5	46.4	13.2	0	0	0	985.9
9/27/05 1:00	89.1	0.9	1.9	0.9	3.6	0.4	42.4	12.2	0	0	0	985.95
9/27/05 2:00	92.2	0.8	1.8	0.9	3.2	0.4	39.9	11.9	0	0	0	985.59
9/27/05 3:00	93.8	1	1.9	0.9	3.7	0.4	35	10.6	0	0	0	985.59
9/27/05 4:00	94.7	0.6	1.7	1.1	2.8	0.3	31.8	10.3	0	0	0	985.81
9/27/05 5:00	95	0.9	1.9	1	3.7	0.4	37.3	11.3	0	0	0	986.04
9/27/05 6:00	95.8	0.8	1.8	1	3.4	0.4	45.8	11.5	31.2	0.11	0	986.21
9/27/05 7:00	92.3	1.5	2.2	0.7	3.8	0.5	52.6	12.1	201.3	0.72	0	986.43
9/27/05 8:00	81.8	1.6	2.4	0.8	4.2	0.6	63	14.4	400.6	1.44	0	986.51
9/27/05 9:00	70.8	1.8	2.7	0.9	5	0.7	96.1	15.6	575.2	2.07	0	986.4
9/27/05 10:00	65.8	1.6	2.4	0.8	5	0.7	92.6	17.5	705.3	2.54	0	985.96
9/27/05 11:00	59.3	0.9	1.4	0.5	4.3	0.7	78.1	26.8	781.3	2.81	0	985.12
9/27/05 12:00	51.9	0.7	1.2	0.5	3.5	0.6	105.1	33.4	793.5	2.86	0	984.18
9/27/05 13:00	47.3	0.1	1.4	0.5	3.3	0.5	167.8	28.2	745.6	2.68	0	983.15
9/27/05 14:00	42.8	0.7	1.2	0.5	3.3	0.5	159.9	28.2	641.8	2.31	0	982.25
9/27/05 15:00	43.1	0.7	1.3	0.6	3.5	0.5	154.8	19.2	485.4	1.75	0	981.42
9/27/05 16:00	47.7	0.5	1.3	0.8	2.7	0.3	123.8	19.1	292.2	1.05	0	980.95
9/27/05 17:00	56.5	0	0.9	0.9	1.8	0.2	98.8	6.5	95.1	0.34	0	980.38
9/27/05 18:00	73.3	0.1	1.3	1.2	2.4	0.1	88.8	3.6	1.8	0.01	0	980.07
9/27/05 19:00	71.1	0.3	1.8	1.5	2.5	0.2	90.3	5.2	-0.9	0	0	979.9
9/27/05 20:00	72.3	0.9	2.6	1.7	3.9	0.2	114.8	5.6	-0.4	0	0	979.86
9/27/05 21:00	70.4	1.8	3.2	1.4	5.6	0.6	140.4	10	-0.2	0	0	979.58
9/27/05 22:00	77.6	1.6	2.6	1.1	4.7	0.5	146.6	11	-0.5	0	0	979.31
9/27/05 23:00	84.3	1.7	2.7	1	4.7	0.6	156.8	13	-0.2	0	0	978.93
9/28/05 0:00	88.8	2.1	3.2	1.1	6	0.7	156.1	13.2	-0.4	0	0	978.51
9/28/05 1:00	91.9	1	1.9	0.9	4.2	0.5	167.5	13.4	-0.3	0	0	978.46
9/28/05 2:00	93.4	1	1.9	0.9	4.2	0.4	164.3	13	-0.3	0	0	977.97
9/28/05 3:00	93.9	1.8	2.7	0.9	5.3	0.6	178.3	11.5	-0.2	0	0	977.66
9/28/05 4:00	93.7	2.3	3.4	1.1	6.4	0.7	153.1	11.2	-0.3	0	0	977.7
9/28/05 5:00	94	3.2	4.6	1.4	8.5	0.9	159.5	10.6	-0.2	0	0	977.64
9/28/05 6:00	93	4.1	5.8	1.7	10.2	1.2	161.3	10.8	8.6	0.03	0	977.59
9/28/05 7:00	91.6	4.6	6.5	1.9	11.5	1.3	161.3	11.1	45.1	0.16	0	977.5
9/28/05 8:00	90.1	4.1	5.9	1.8	10.6	1.2	167.6	11.3	76.1	0.27	0	977.68
9/28/05 9:00	87.6	3.3	4.7	1.4	9.2	1.1	165.4	12.9	148.7	0.54	0	977.75
9/28/05 10:00	83.1	2.3	3.5	1.2	7.4	0.7	176.5	11.6	293	1.05	0	978.13
9/28/05 11:00	74.1	2.6	3.7	1.1	6.4	0.8	186.3	13.2	523.3	1.88	0	978.15
9/28/05 12:00	69.4	2.1	3	0.8	6.5	0.8	215.3	15.4	431.2	1.55	0	978.42
9/28/05 13:00	59.8	3.2	4.6	1.4	13.3	1.4	298.3	16.9	490.6	1.77	0	978.71
9/28/05 14:00	59.7	4.7	6.7	2	12.8	1.6	204.6	14.1	586.7	2.11	0	979.75
9/28/05 15:00	58.8	5.3	7.6	2.3	13.2	1.9	295.1	13.9	430.2	1.55	0	981.14
9/28/05 16:00	57.6	5.3	7.6	2.3	14.2	1.8	92.9	13.2	255.8	0.92	0	982.85
9/28/05 17:00	56.4	5.1	7.2	2.2	14.1	1.8	36.3	12.9	57	0.21	0	984.58

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127								RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	
9/29/05 6:00	0.0125						0.006	0.011	0.012	0.024	13.2	8.89	77
9/29/05 7:00	0.01218							0.014	0.011	0.025	9.7	10.00	72
9/29/05 8:00	0.01247						0.011	0.01	0.007	0.017	11.8	12.22	64
9/29/05 9:00	0.01096						0.017	0.006	0.006	0.012	10.1	14.44	52
9/29/05 10:00	0.01609						0.023	0.004	0.005	0.009	14.9	15.56	44
9/29/05 11:00	0.02046						0.022	0.005	0.007	0.011	14.5	16.67	42
9/29/05 12:00	0.02159						0.026	0.003	0.005	0.009	12.3	17.78	39
9/29/05 13:00	0.01882						0.03	0.002	0.004	0.006	10.1	18.89	36
9/29/05 14:00	0.01882						0.031	0.003	0.006	0.009	9.7	19.44	33
9/29/05 15:00	0.01879						0.028	0.004	0.008	0.012	11.9	20.00	31
9/29/05 16:00	0.01926						0.027	0.005	0.011	0.016	10.8	20.00	31
9/29/05 17:00	0.01984						0.025	0.003	0.013	0.016	12.7	19.44	37
9/29/05 18:00	0.02526						0.002	0.017	0.031	0.048	16.5	15.56	59
9/29/05 19:00	0.02831						0	0.067	0.026	0.093	14.8	13.33	74
9/29/05 20:00	0.02128						0	0.06	0.019	0.079	16.7	12.22	83
9/29/05 21:00	0.01431						0	0.064	0.017	0.082	17.5	11.11	86
9/29/05 22:00	0.01775						0	0.027	0.015	0.042	15	11.11	87
9/29/05 23:00	0.01434						0	0.03	0.013	0.043	14.3	10.00	89
9/30/05 0:00	0.01644						0	0.045	0.009	0.054	15.1	10.00	92
9/30/05 1:00	0.02251						0	0.044	0.007	0.051	16.3	9.44	93
9/30/05 2:00	0.03335						0	0.043	0.007	0.05	16.7	9.44	93
9/30/05 3:00	0.04035						0	0.041	0.006	0.047	14.5	9.44	93
9/30/05 4:00	0.03994						0	0.044	0.007	0.052	15.1	9.44	93
9/30/05 5:00	0.03282						0	0.066	0.008	0.074	14.6	9.44	94
9/30/05 6:00	0.03036						0	0.031	0.023	0.054	17.9	12.22	83
9/30/05 7:00	0.02742						0.006	0.015	0.023	0.038	15.8	15.00	71
9/30/05 8:00	0.02401						0.017				19.3	17.78	64
9/30/05 9:00	0.01962						0.025				17.4	20.00	59
9/30/05 10:00	0.02645						0.031				18.5	22.22	55
9/30/05 11:00	0.03129						0.036				17.9	23.89	52
9/30/05 12:00	0.03767						0.044				16.8	25.56	47
9/30/05 13:00	0.04818						0.049				15.9	26.67	43
9/30/05 14:00	0.05071						0.052	0.001	0.007	0.008	15.3	27.22	43
9/30/05 15:00	0.05392						0.054	0.001	0.007	0.008	20	27.22	39
9/30/05 16:00	0.0577	26.8	2.9	5.4	202.5	11.2	0.055	0	0.008	0.008	14.3	27.22	37
9/30/05 17:00	0.0531	25.4	1.3	4.9	202.5	9.8	0.044	0.001	0.017	0.018	14.3	25.56	39
9/30/05 18:00	0.05652	24.1	1.2	4	202.5	8.5	0.018	0.008	0.038	0.046	20	22.78	49
9/30/05 19:00	0.05923	23.8	0.6	5.4	202.5	11.2	0.031	0	0.022	0.022	19.2	22.22	56
9/30/05 20:00	0.04474	19.7	8.1	6.3	202.5	14.8	0.033	0	0.014	0.014	16.5	18.89	75
9/30/05 21:00	0.04046	18.7	2.3	5.8	202.5	16.5	0.031	0	0.012	0.012	14.9	20.00	65
9/30/05 22:00	0.04113	20.1	0.4	6.3	135	15.6	0.033	0	0.008	0.008	11.8	20.56	59
9/30/05 23:00	0.0389	19.8	0.5	6.7	202.5	14.3	0.032	0	0.007	0.006	51.4	18.33	77
10/1/05 0:00	0.03483	17.4	3.2	4.9	0	16.5	0.034	0	0.007	0.007	15	16.67	92
10/1/05 1:00	0.04344	15.6	1.7	9.4	202.5	16.5	0.029	0	0.009	0.009	19	16.67	94
10/1/05 2:00	0.03668	15.6	1.2	10.7	202.5	16.5	0.03	0	0.008	0.007	21.1	16.67	93
10/1/05 3:00	0.03887	15.5	1.2	11.6	202.5	16.5	0.029	0	0.007	0.007	15.6	16.67	92
10/1/05 4:00	0.03917	15.8	2.2	8.9	202.5	14.3	0.026	0	0.008	0.008	8.7	16.11	91
10/1/05 5:00	0.03605	15	0.7	7.6	202.5	17.4	0.033	0	0.005	0.005	16	16.11	92
10/1/05 6:00	0.03589	15.4	1.2	5.8	180	19.2	0.03	0	0.006	0.006	16.2	16.67	93
10/1/05 7:00	0.03228	16.2	1	3.6	202.5	11.2	0.027	0	0.01	0.01	11.8	16.67	91
10/1/05 8:00	0.03151	15.5	1.2	4.9	112.5	13	0.023	0.001	0.011	0.012	25.2	16.11	92
10/1/05 9:00	0.02784	15.8	1.2	4.5	180	12.1	0.02	0.002	0.012	0.014	18.2	17.22	90
10/1/05 10:00	0.02882	16.8	0.8	7.2	202.5	17.4	0.023	0	0.012	0.012	24.6	18.33	92
10/1/05 11:00	0.03058	17.4	2.2	13.9	202.5	23.2	0.032	0.001	0.009	0.01	19.3	20.56	89
10/1/05 12:00	0.03048	19.4	2.7	7.2	202.5	16.1	0.034	0.001	0.007	0.008	23.5	23.33	82
10/1/05 13:00	0.03378	21.8	1.7	8.5	202.5	16.5	0.04	0	0.006	0.006	31	25.00	76
10/1/05 14:00	0.03734	22.9	1.6	10.7	202.5	17.4	0.042	0	0.006	0.006	30.6	25.56	72
10/1/05 15:00	0.04038	23.7	1.2	10.3	202.5	16.5	0.04	0.001	0.009	0.01	33.8	25.56	71
10/1/05 16:00	0.04266	23.8	2	8.5	202.5	14.3	0.036	0.001	0.011	0.012	30.4	24.44	74
10/1/05 17:00	0.0389	22.9	0.5	6.7	202.5	13.4	0.038	0	0.008	0.008	33.5	24.44	75
10/1/05 18:00	0.04227	22.7	0.4	4.5	202.5	10.3	0.029	0	0.015	0.015	32.7	23.89	79
10/1/05 19:00	0.04345	22.9	0.6	4.9	157.5	10.7	0.028	0	0.013	0.013	34.7	23.33	81
10/1/05 20:00	0.04282	23.4	0.4	4.9	180	13.9	0.026	0	0.014	0.014	34.7	23.89	79
10/1/05 21:00	0.04299	23.4	0.3	5.8	180	13	0.027	0	0.014	0.013	35.1	23.89	77
10/1/05 22:00	0.04437	23.1	0.6	5.8	180	13	0.031	0	0.01	0.01	33.7	23.89	77
10/1/05 23:00	0.04339	22.6	0.5	6.3	180	13.9	0.036	0	0.006	0.005	33.8	23.33	79
10/2/05 0:00	0.04375	22.3	0.2	6.7	202.5	15.2	0.039	0	0.004	0.003	32.1	23.33	80
10/2/05 1:00	0.04336	22.1	0.4	8	202.5	16.5	0.036	0	0.004	0.004	34.5	23.33	81
10/2/05 2:00	0.04053	21.8	0.4	7.2	202.5	14.8	0.033	0	0.004	0.004	34.3	22.78	83
10/2/05 3:00	0.03782	21.5	0.2	6.7	202.5	13.9	0.032	0	0.004	0.003	33.8	22.78	84
10/2/05 4:00	0.03628	21.4	0.2	6.7	202.5	13.9	0.029	0	0.004	0.004	34.3	22.22	86
10/2/05 5:00	0.03462	21.3	0.2	6.7	202.5	13.4	0.028	0	0.004	0.004	34.5	22.22	86
10/2/05 6:00	0.0317	21.4	0.5	8.5	202.5	15.2	0.025	0	0.004	0.004	33.3	22.22	85
10/2/05 7:00	0.02698	21.7	0.4	11.2	202.5	16.1	0.022	0	0.005	0.005	29.1	23.89	80
10/2/05 8:00	0.02062	21.8	0.5	10.7	202.5	14.8	0.02	0.001	0.005	0.006	26.7	25.56	74
10/2/05 9:00	0.01962	22.8	3.2	9.4	202.5	13.9	0.02	0.002	0.005	0.008	26.2	27.22	69
10/2/05 10:00	0.02113	26.6	2.7	8	202.5	13	0.025	0	0.003	0.004	19	28.89	62
10/2/05 11:00	0.02305	28.6	2.2	8.9	202.5	14.3	0.027	0	0.002	0.002	14.8	29.44	57
10/2/05 12:00	0.02538	30	2.3	9.4	202.5	14.8	0.03	0	0.002	0.002	12.6	30.56	53
10/2/05 13:00	0.02737	30.6	1.5	9.4	202.5	14.8	0.032	0	0.002	0.002	13.3	31.11	50
10/2/05 14:00	0.03066	30.3	2.1	9.8	202.5	14.8	0.033	0	0.003	0.003	15.1	31.11	50
10/2/05 15:00	0.02959	29.9	2.7	8	202.5	14.3	0.033	0	0.003	0.003	14.8	30.56	52
10/2/05 16:00	0.02158	29.2	1.3	7.2	202.5	12.1	0.031	0	0.005	0.005	16.1	30.56	53
10/2/05 17:00	0.02477	28.2	1.3	7.6	202.5	12.1	0.027	0	0.007	0.007	19.6	28.89	59
10/2/05 18:00	0.02082	27.2	0.9	5.8	180	10.3	0.012	0.002	0.019	0.021	20.2	26.67	67
10/2/05 19:00	0.02747	26.9	0.4	7.2	202.5	9.8	0.001	0.019	0.025	0.044	21.7	24.44	78
10/2/05 20:00	0.03066	27	0.4	7.6	202.5	11.2	0.004	0.014	0.024	0.037	22.9	24.44	80
10/2/05 21:00	0.03812	26.6	0.9	9.4	202.5	14.8	0.025	0	0.009	0.009	20.2	26.11	67
10/2/05 22:00	0.03454	25.6	1	7.6	202.5	14.8	0.031	0	0.005	0.005	24	26.67	68
10/2/05 23:00	0.03625	25	0.4	8.9	202.5	15.2	0.032	0	0.005	0.004	23	26.11	70
10/3/05 0:00	0.03566	24.5	0.7	7.6	202.5	14.8	0.03	0	0.004	0.004	21.7	25.56	73
10/3/05 1:00	0.03256	24	0.4	6.7	202.5	13	0.027						

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
9/29/05 6:00	44	1.78816	8.3	7	5.6	83	2.06	360	998.65	9	9.6	0.6
9/29/05 7:00	43	2.2352	11.7	8.7	5.6	66	2.57	30	999.32	10.3	10.2	-0.1
9/29/05 8:00	59	2.2352	13.9	9.5	5	55	4.12	50	999.32	12.5	11.9	-0.5
9/29/05 9:00	86	2.2352	15.6	9.6	3.3	44	4.12	60	998.98	14.3	13.4	-0.9
9/29/05 10:00	68	2.68224	16.7	10.1	3.3	41	3.93	10	998.31	15.7	14.5	-1.2
9/29/05 11:00	100	2.2352	17.2	10.6	3.9	41	1.54		997.63	16.7	15.6	-1.1
9/29/05 12:00	87	2.2352	18.9	11.3	3.9	37	4.12	60	996.28	17.9	16.8	-1.1
9/29/05 13:00	116	1.78816	19.4	11.3	3.3	35	2.06		994.92	18.9	17.8	-1.1
9/29/05 14:00	74	1.78816	20.6	11.6	2.8	31	2.06	50	994.24	19.4	18.5	-0.9
9/29/05 15:00	86	1.34112	20.6	11.6	2.8	31	0.00	0	992.89	19.7	19.1	-0.6
9/29/05 16:00	101	1.34112	20	12.2	5	38	3.09	130	992.55	19.2	19	-0.2
9/29/05 17:00	90	0.89408	18.3	11.5	5	42	2.06	110	992.21	17.2	18.1	0.8
9/29/05 18:00	182	0	17.8	11.5	5.6	45	1.54	110	991.87	13.8	16.7	2.8
9/29/05 19:00	173	0	16.1	11.5	7.2	56	1.54	130	991.87	12.4	16.4	3.9
9/29/05 20:00	241	0	15	10.7	6.7	58	2.06	120	991.87	13	16.8	3.7
9/29/05 21:00	226	0	14.4	10.5	6.7	60	2.06	130	991.53	13.5	16.2	2.7
9/29/05 22:00	163	0	11.7	10	8.3	80	0.00	0	991.20	12.4	15.4	3
9/29/05 23:00	241	0	12.2	10.7	9.4	83	0.00	0	990.86	11.5	15.3	3.8
9/30/05 0:00	185	0	11.7	10.3	8.9	83	1.54	110	990.86	12.9	15.4	2.5
9/30/05 1:00	198	0	12.8	10.2	7.8	72	0.00	0	990.52	12.9	14.9	2
9/30/05 2:00	161	0	11.7	9.7	7.8	77	1.54	130	990.18	12.9	14.5	1.5
9/30/05 3:00	174	0	11.7	9.2	6.7	72	2.06	160	990.18	12.3	13.7	1.4
9/30/05 4:00	206	0	11.7	9.4	7.2	74	2.06	160	990.52	11.7	12.9	1.2
9/30/05 5:00	176	0	11.7	10	8.3	80	1.54	140	990.86	11.9	12.9	0.9
9/30/05 6:00	191	0.89408	13.9	11	8.3	69	3.09	160	990.86	12.8	13.3	0.5
9/30/05 7:00	190	1.78816	15.6	12.3	9.4	67	5.66	170	990.86	13.9	13.9	0
9/30/05 8:00	200	1.78816	18.3	13.4	9.4	56	7.20	180	990.86	16.4	16	-0.4
9/30/05 9:00	205	1.78816	20.6	15.2	11.1	55	5.66	190	990.52	18.3	17.8	-0.4
9/30/05 10:00	200	1.78816	22.2	16.3	12.2	53	4.63	210	990.18	21.1	20.2	-0.9
9/30/05 11:00	195	2.2352	24.4	17.1	12.2	47	6.17	190	988.49	23.3	22.4	-0.9
9/30/05 12:00	197	2.2352	25.6	17.9	12.8	45	5.14	190	987.47	25.2	24.1	-1
9/30/05 13:00	192	2.68224	26.7	17.9	12.2	41	7.20	180	986.45	25.7	24.8	-0.9
9/30/05 14:00	182	2.68224	27.2	17.9	11.7	38	6.69	170	985.44	26.3	25.5	-0.8
9/30/05 15:00	185	2.2352	27.2	17.4	10.6	35	5.66	160	985.44	26.3	25.8	-0.5
9/30/05 16:00	192	1.78816	26.7	16.9	10	35	5.66	190	986.12	25.5	25.7	0.1
9/30/05 17:00	169	1.34112	25.6	16.3	9.4	36	4.12	170	985.78	23.1	24.2	1.1
9/30/05 18:00	162	0.44704	23.3	16.5	11.7	48	3.60	150	986.45	22	23.3	1.3
9/30/05 19:00	168	2.2352	21.1	16.5	13.3	61	6.17	130	985.78	21.6	22.4	0.7
9/30/05 20:00	168	2.68224	21.1	15.7	11.7	55	8.23	140	984.42	19.9	20.5	0.6
9/30/05 21:00	166	2.2352	21.1	15.7	11.7	55	6.17	150	985.44	19.7	20.2	0.5
9/30/05 22:00	173	2.2352	21.1	15.7	11.7	55	5.66	160	986.12	19.6	20.1	0.4
9/30/05 23:00	251	1.78816	18.3	16	14.4	78	4.63	280	988.49	17.9	18.7	0.8
10/1/05 0:00	157	1.34112	17.8	16.8	16.1	90	3.60	110	987.81	16.4	16.6	0.3
10/1/05 1:00	175	0.89408	18.3	16.7	15.6	84	2.57	170	988.49	16.3	16.6	0.3
10/1/05 2:00	188	0.89408	17.2	16.2	15.6	90	2.06	120	987.47	16.2	16.5	0.3
10/1/05 3:00	154	0.89408	16.7	15.7	15	90	4.12	130	986.79	15.9	16.1	0.2
10/1/05 4:00	178	1.78816	16.7	15.4	14.4	86	6.69	150	987.47	15.8	16.1	0.3
10/1/05 5:00	160	2.2352	16.1	15.5	15	93	5.66	150	986.12	15.5	15.8	0.3
10/1/05 6:00	248	1.78816	17.2	16.2	15.6	90	0.00	0	988.49	15.6	15.8	0.2
10/1/05 7:00	145	1.78816	16.7	15.4	14.4	86	4.12	120	988.15	15.7	16	0.2
10/1/05 8:00	167	1.78816	16.7	15.7	15	90	4.12	140	988.15	16	16.2	0.2
10/1/05 9:00	164	1.78816	17.8	16.5	15.6	87	3.60	150	987.47	16.7	16.7	-0.1
10/1/05 10:00	194	1.78816	18.9	17.9	17.2	90	7.20	180	988.15	17	17.1	0.1
10/1/05 11:00	178	2.2352	20.6	19.5	18.9	90	6.69	150	987.47	19.2	19.2	0
10/1/05 12:00	184	3.12928	23.3	21.1	20	82	6.17	170	986.45	21.5	21.5	-0.1
10/1/05 13:00	200	2.68224	25.6	21.9	20	71	7.20	190	986.45	23.3	23.1	-0.2
10/1/05 14:00	198	3.12928	25.6	21.5	19.4	69	7.72	190	986.45	25.2	24.8	-0.4
10/1/05 15:00	193	3.12928	25	21.3	19.4	71	8.23	180	986.12	25.1	24.8	-0.3
10/1/05 16:00	192	2.2352	25	21.7	20	74	5.66	170	986.12	24.4	24.4	0
10/1/05 17:00	187	1.78816	23.9	21.3	20	79	3.60	140	986.45	23.4	23.7	0.3
10/1/05 18:00	156	1.34112	22.8	21	20	84	2.57	130	986.45	22.6	23.2	0.6
10/1/05 19:00	156	1.34112	22.8	21	20	84	2.57	140	986.79	22	22.6	0.6
10/1/05 20:00	168	1.34112	23.3	21.1	20	82	3.60	160	987.47	21.8	22.4	0.6
10/1/05 21:00	173	2.2352	23.9	21	19.4	76	5.14	160	987.47	22	22.6	0.6
10/1/05 22:00	174	2.2352	23.3	20.8	19.4	79	5.14	160	987.81	22.1	22.7	0.6
10/1/05 23:00	181	2.68224	23.3	21.1	20	82	6.69	160	987.47	22.2	22.8	0.6
10/2/05 0:00	181	2.68224	23.3	21.1	20	82	6.17	160	987.47	22.3	22.8	0.5
10/2/05 1:00	179	2.2352	23.3	21.1	20	82	5.66	170	987.47	22.2	22.7	0.6
10/2/05 2:00	182	2.2352	22.8	21	20	84	5.66	160	987.81	21.9	22.4	0.6
10/2/05 3:00	180	1.78816	22.2	20.8	20	87	5.14	150	988.15	21.7	22.2	0.5
10/2/05 4:00	177	1.78816	22.2	20.4	19.4	84	5.66	160	988.49	21.4	21.9	0.5
10/2/05 5:00	190	1.78816	22.2	20.4	19.4	84	5.14	160	989.16	21.3	21.8	0.5
10/2/05 6:00	194	1.78816	22.8	21	20	84	4.63	170	989.50	21.4	21.7	0.6
10/2/05 7:00	199	1.78816	23.9	21.3	20	79	5.14	170	989.84	22.8	23	0.2
10/2/05 8:00	197	2.2352	25.6	21.9	20	71	7.20	180	990.18	24.3	24.2	-0.1
10/2/05 9:00	195	2.2352	27.2	22.7	20.6	67	7.72	190	990.52	26	25.7	-0.4
10/2/05 10:00	199	2.68224	28.9	22.5	19.4	57	9.26	200	990.18	27.4	27	-0.5
10/2/05 11:00	198	3.12928	30	23.2	20	55	7.72	190	989.84	28.5	28.2	-0.3
10/2/05 12:00	198	3.57632	30.6	23	19.4	51	8.23	180	989.16	29.6	29.1	-0.5
10/2/05 13:00	198	3.12928	31.7	23.3	19.4	48	8.23	180	988.83	29.9	29.6	-0.4
10/2/05 14:00	197	2.68224	31.1	22.9	18.9	48	7.20	190	988.49	29.8	29.7	-0.1
10/2/05 15:00	199	2.2352	30.6	23	19.4	51	6.69	180	988.49	28.7	29	0.3
10/2/05 16:00	205	1.78816	30.6	23	19.4	51	5.66	190	988.83	28.3	28.7	0.4
10/2/05 17:00	205	0.89408	28.9	22.5	19.4	57	3.60	180	988.83	26.7	27.6	1
10/2/05 18:00	180	0.44704	27.8	22.2	19.4	60	2.06	160	989.16	25.2	26.6	1.3
10/2/05 19:00	177	0.44704	26.1	22	20	69	2.57	140	989.50	24.7	26.1	1.4
10/2/05 20:00	135	0.44704	26.7	21.9	19.4	64	4.12	160	990.18	24.6	25.8	1.3
10/2/05 21:00	174	1.78816	26.7	21.9	19.4	64	5.14	170	990.52	25.1	25.8	0.8
10/2/05 22:00	182	1.78816	26.7	22.2	20	67	5.14	170	990.52	24.9	25.5	0.6
10/2/05 23:00	197	2.2352	26.1	22	20	69	6.17	170	990.52	24.7	25.4	0.7
10/3/05 0:00	180	1.78816	25.6	21.9	20	71	5.14	160	990.86	24.4	25.1	0.7
10/3/05 1:00	179	1.78816	25	21.7	20	74	4.63	160	990.86	23.9	24.5	0.6
10/3/05 2:00	184	1.78816	24.4	21.9	20.6	79	4.12	160	990.86	23.4	24	0.6
10/3/05 3:00	184	1.34112	24.4	21.9	20.6	79	4.63	150	990.86	22.9	23.5	0.6
10/3/05 4:00	186	1.34112</										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{ROT} (%)	PCPN (in)	P _{A65} (hPa)
9/29/05 6:00	69.6	2	3	1	5.9	0.8	26.6	14.5	30.7	0.11	0	991.56
9/29/05 7:00	65.3	2.1	3	0.9	5.5	0.8	38.1	16.2	206.3	0.74	0	991.99
9/29/05 8:00	58.4	2.2	3.1	0.9	6.2	0.8	50.7	15.3	407.8	1.47	0	992.49
9/29/05 9:00	51.5	1.9	2.7	0.8	6.4	1	64.7	21.1	585.1	2.11	0	992.3
9/29/05 10:00	45.4	1.8	2.6	0.8	5.9	0.9	50.3	22.7	713.5	2.57	0	991.71
9/29/05 11:00	41.6	2.1	2.9	0.8	6.1	0.9	62.9	19.3	782.3	2.82	0	990.91
9/29/05 12:00	38.8	1.6	2.3	0.6	6.1	0.8	65.4	22.4	795.8	2.87	0	989.99
9/29/05 13:00	35.3	1.3	1.9	0.6	4.9	0.8	37.8	28.4	744.8	2.68	0	988.78
9/29/05 14:00	34.2	1.2	1.7	0.6	5.2	0.7	30.8	32.1	633.3	2.28	0	987.75
9/29/05 15:00	34.6	1.1	1.8	0.7	4.6	0.6	96.5	23.4	470	1.69	0	986.7
9/29/05 16:00	36.3	1.2	2	0.8	3.7	0.5	105.1	14.2	281.1	1.01	0	985.8
9/29/05 17:00	44.7	0.3	0.9	0.6	2.5	0.2	98.8	8.8	73	0.26	0	985.39
9/29/05 18:00	59.8	0	0.4	0.4	1	0.1	165.3	4.3	1.8	0.01	0	985.2
9/29/05 19:00	64.9	0	0.7	0.7	1.6	0.2	186.2	7.5	0	0	0	985.02
9/29/05 20:00	59.7	0	1.3	1.3	2.1	0.2	157.8	5.4	0	0	0	984.77
9/29/05 21:00	57.3	0	1.5	1.5	2.5	0.2	161.7	8	0	0	0	984.56
9/29/05 22:00	61.2	0	0.9	0.9	2.1	0.2	155.3	6.8	0	0	0	984.48
9/29/05 23:00	66.3	0	1.2	1.2	2.2	0.2	158.8	9.6	0	0	0	984.16
9/30/05 0:00	57.3	0.1	1.6	1.5	2.8	0.3	156.7	9.8	0	0	0	983.69
9/30/05 1:00	57.2	0.1	1.4	1.3	2.9	0.3	159.8	10.6	0	0	0	983.63
9/30/05 2:00	58.3	0.2	1.4	1.3	2.9	0.3	154.8	8.2	0	0	0	983.19
9/30/05 3:00	65.1	1	2.3	1.2	3.8	0.4	149	8.1	0	0	0	982.91
9/30/05 4:00	71.8	0.5	1.7	1.3	3.3	0.4	174.9	11.2	0	0	0	983.28
9/30/05 5:00	73.8	1.1	2.3	1.2	5.1	0.4	170.2	11.2	0	0	0	983.5
9/30/05 6:00	73.5	2.5	3.8	1.3	6.2	0.7	156.4	10.8	15.8	0.06	0	983.42
9/30/05 7:00	73.2	2.8	4	1.2	7.1	0.8	158.6	10.8	148.1	0.53	0	983.42
9/30/05 8:00	70	2.3	3.4	1.1	7.1	0.7	171.1	11.4	258.1	0.93	0	983.66
9/30/05 9:00	65.4	2.8	4	1.2	6.9	0.8	168.5	12.6	309.5	1.11	0	983.53
9/30/05 10:00	59.7	3.5	4.9	1.4	9.1	1.1	160.3	12.8	592.1	2.13	0	982.85
9/30/05 11:00	52.9	4.1	5.6	1.6	9.6	1.2	162.5	12.8	726.8	2.62	0	981.83
9/30/05 12:00	48.6	3.3	4.5	1.3	8.5	1.1	159	14.7	730.1	2.63	0	981.06
9/30/05 13:00	46.3	3.8	5.4	1.5	9.4	1.1	188.2	13.2	692.1	2.49	0	979.95
9/30/05 14:00	45.3	3.4	4.7	1.3	9.4	1.1	177.7	15	592.8	2.13	0	978.92
9/30/05 15:00	45.9	3.1	4.4	1.3	7.8	1.2	149.5	14.7	436.8	1.57	0	978.77
9/30/05 16:00	44.9	2.3	3.4	1.1	6.8	0.8	157.7	12.4	189.7	0.68	0	979.08
9/30/05 17:00	52.3	0.8	2	1.2	4.6	0.4	157.1	10.2	28.1	0.1	0	979.19
9/30/05 18:00	54.7	1.3	2.5	1.2	6.2	0.5	150.8	10.5	0.5	0	0	978.94
9/30/05 19:00	53.1	3.7	5.2	1.6	9.6	1.1	146.5	14	0	0	0	978.65
9/30/05 20:00	63.9	3.5	4.9	1.4	9.4	1.2	154.2	14.2	0	0	0	978.3
9/30/05 21:00	61.8	3	4.2	1.2	7.9	1	153.4	12.9	0	0	0	978.49
9/30/05 22:00	62	3.4	4.7	1.3	9.7	1	171.9	12.5	0	0	0	979.22
9/30/05 23:00	78.6	2.9	4.5	1.5	8.7	0.9	191.7	11.8	0	0	0.28	981.58
10/1/05 0:00	94.4	2.1	3.1	0.9	6.5	0.7	152.7	16.5	0	0	0.07	980.64
10/1/05 1:00	93.5	2.1	2.9	0.9	7.2	0.7	165.8	13.3	0	0	0.13	981.42
10/1/05 2:00	95	2.1	3.1	1	5.7	0.7	134.3	12.5	0	0	0.1	981.01
10/1/05 3:00	95.5	1.1	2.1	1	5.7	0.5	110	10.9	0	0	0.03	979.97
10/1/05 4:00	93.7	3.5	4.9	1.4	8.5	1.1	142.3	12.4	0	0	0.08	980.02
10/1/05 5:00	93.1	1.8	2.7	0.9	7.3	0.8	153.8	16	0	0	0.02	980.48
10/1/05 6:00	95	1.1	1.8	0.7	4.9	0.6	143.9	22.2	1.9	0.01	0.09	980.73
10/1/05 7:00	95.8	1.8	2.9	1.1	12.5	0.8	103.8	15.9	2.3	0.01	0.22	981.21
10/1/05 8:00	93.8	2.7	3.9	1.2	7	0.9	152	15.2	41.2	0.15	0.01	981.11
10/1/05 9:00	91.4	2.3	3.3	0.9	6.4	0.8	129.6	14.4	173.3	0.62	0	980.78
10/1/05 10:00	92	1.5	2.3	0.8	4.8	0.6	146.6	15.7	42.6	0.15	0	980.8
10/1/05 11:00	91.3	2.3	3.1	0.8	5.8	0.8	167.3	15	160.8	0.58	0	980.51
10/1/05 12:00	93.2	3.2	4.3	1.1	8.9	1	144.3	14.8	220	0.79	0	980.27
10/1/05 13:00	80.7	3.9	5.3	1.4	10.9	1.2	179.5	12.9	368.6	1.33	0	979.71
10/1/05 14:00	71.2	4.6	6.1	1.6	12	1.5	178.4	14.2	572.3	2.06	0	979.43
10/1/05 15:00	71.3	4.2	5.5	1.3	10.8	1.3	147.3	14.5	409.8	1.48	0	979.14
10/1/05 16:00	73.8	3.5	4.7	1.2	9.6	1.2	145.2	14	229.9	0.83	0	979.25
10/1/05 17:00	79.4	2	2.9	0.9	7.3	0.7	154.7	13.9	57.8	0.21	0	979.72
10/1/05 18:00	83.3	1.7	2.7	1	4.6	0.5	133.7	10.8	1.2	0	0	979.69
10/1/05 19:00	86.3	1.6	2.6	1	4.1	0.5	131.9	9.7	0	0	0	980.03
10/1/05 20:00	87.8	2	3.1	1.1	5.3	0.6	142.9	10.8	0	0	0	980.42
10/1/05 21:00	86.8	2.3	3.4	1.1	7	0.7	148.7	12.5	0	0	0	980.67
10/1/05 22:00	84.9	2.3	3.3	1	6.6	0.8	152.3	13.5	0	0	0	980.89
10/1/05 23:00	84.8	2.7	3.8	1.1	7.6	1.1	157	14	0	0	0	980.79
10/2/05 0:00	84.8	3	4.1	1.1	7.8	1	163.6	15	0	0	0	980.63
10/2/05 1:00	85.3	2.9	4	1.1	7.9	1	162.1	14.7	0	0	0	980.79
10/2/05 2:00	86.8	2.7	3.6	0.9	8	1	158.4	14.5	0	0	0	980.86
10/2/05 3:00	88	2.5	3.5	1	6.4	0.9	158	15.3	0	0	0	981.21
10/2/05 4:00	89.2	2.4	3.3	0.9	7.2	0.9	161.5	14.6	0	0	0	981.57
10/2/05 5:00	89.6	2.9	3.9	1	8.3	0.9	168.9	13.7	0	0	0	982.01
10/2/05 6:00	89.2	2.8	4.1	1.2	7.1	0.8	184.5	10.9	17.1	0.06	0	982.41
10/2/05 7:00	84.2	3.8	5.2	1.4	8.8	1.1	156.2	11	159.4	0.57	0	982.59
10/2/05 8:00	77.7	3.9	5.4	1.5	9.3	1.2	158.4	11.2	340.5	1.23	0	983.07
10/2/05 9:00	71.1	3.8	5.4	1.6	9.3	1.1	162.5	12.6	514.5	1.85	0	983.39
10/2/05 10:00	64.9	4.6	6.4	1.8	11	1.3	159.8	12	644.9	2.32	0	983.37
10/2/05 11:00	59.3	5	6.9	1.8	11.2	1.4	159.3	12	720.4	2.59	0	983.16
10/2/05 12:00	54.5	4.6	6.4	1.8	11.5	1.4	160.3	12.6	751.7	2.71	0	982.84
10/2/05 13:00	52.5	4.5	6.2	1.7	10.9	1.3	163.1	12.8	660.2	2.38	0	982.25
10/2/05 14:00	53	3.9	5.5	1.6	11.3	1.3	160.9	13	480.5	1.73	0	982.01
10/2/05 15:00	57.4	3.3	4.6	1.3	7.9	0.9	186.2	12.7	262.2	0.94	0	982.05
10/2/05 16:00	60	2.6	3.9	1.3	8.6	0.9	163.3	11	184.3	0.66	0	982.2
10/2/05 17:00	66.6	1.4	2.6	1.2	5.1	0.4	160.3	8.8	43.2	0.16	0	982.29
10/2/05 18:00	72.5	1	2.2	1.2	4.1	0.3	182.2	8.2	0.5	0	0	982.39
10/2/05 19:00	74.8	1	2.3	1.4	4	0.3	159.3	7.4	-0.1	0	0	982.75
10/2/05 20:00	75.5	0.7	1.8	1.1	3.5	0.3	167.1	11.1	0	0	0	983.17
10/2/05 21:00	72.8	1.9	2.9	0.9	5.9	0.7	166.8	13.9	0	0	0	983.58
10/2/05 22:00	75.6	2.5	3.5	1	6.3	0.8	172.8	13	0	0	0	983.82
10/2/05 23:00	75.9	2.4	3.4	1	6.4	0.8	147.7	12.1	0	0	0	983.77
10/3/05 0:00	77.3	2.1	3	0.9	6.3	0.8	168.8	14.2	0	0	0	983.88
10/3/05 1:00	79.8	2	2.8	0.8	5.4	0.7	162.8	14.3	0	0	0	984.16
10/3/05 2:00	82.2	1.7	2.5	0.8	4.7	0.6	159	13.7	0	0	0	984.11
10/3/05 3:00	84.3	1.5	2.3	0.7	4.4	0.6	163.3	13.9	0	0	0	984.21
10/3/05 4:00	86.1	1.6	2.4	0.8	4.4	0.5	160.2	13.3	0	0	0	984.22
10/3/05 5:00	87.1	1.9	2.8	0.9	5.4	0.6	166.9	13.4	0	0	0	984.43
10/3/05 6:00	88	2	2.8	0.8	5.3	0.6	161.5	13.8	12.8	0.05	0	984.8
10/3/05 7:00	85.8	2.2	3.1	0.9	6.4	0.7	160.3	13.1	147.3	0.53	0	985.25
10/3/05 8:00	80.4	2.8	3.8	1.1	7.3	0.9	179.9	11.7	248.6	0.89	0	985.68
10/3/05												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
10/3/05 21:00	0.03712	26	0.9	5.4	202.5	12.1	0.027	0	0.01	0.009	24.7	26.67	66		
10/3/05 22:00	0.03621	25.3	1	6.7	202.5	13	0.027	0	0.009	0.008	25.1	25.56	69		
10/3/05 23:00	0.03568	24.7	0.5	7.6	202.5	14.3	0.029	0	0.006	0.005	25	25.56	71		
10/4/05 0:00	0.03482	24.1	0.7	7.6	202.5	14.3	0.03	0	0.004	0.004	25.3	25.00	73		
10/4/05 1:00	0.03399	23.5	0.4	8.5	202.5	13.9	0.029	0	0.004	0.004	25.5	24.44	75		
10/4/05 2:00	0.0326	23.1	0.5	8	202.5	13.9	0.026	0	0.004	0.004	24.5	23.89	78		
10/4/05 3:00	0.03002	22.7	0.3	7.6	202.5	13.4	0.023	0	0.005	0.005	24	23.33	80		
10/4/05 4:00	0.02715	22.4	0.2	8	202.5	12.5	0.018	0	0.007	0.007	22.9	22.78	82		
10/4/05 5:00	0.02479	22.4	0.4	7.2	202.5	12.1	0.014	0	0.01	0.01	21.4	22.78	83		
10/4/05 6:00	0.02328	21.9	0.5	7.2	202.5	11.6	0.009	0.002	0.014	0.016	20.7	22.22	84		
10/4/05 7:00	0.02052	21.7	0.2	7.2	202.5	12.1	0.009	0.005	0.014	0.019	19.9	23.89	79		
10/4/05 8:00	0.01696	21.9	0.7	8	202.5	12.5	0.016	0.004	0.01	0.014	19.8	25.56	73		
10/4/05 9:00	0.01632	23.6	3.6	5.8	202.5	13.9	0.024	0.002	0.007	0.009	19.6	27.22	69		
10/4/05 10:00	0.02006	26.9	2.5	7.2	202.5	11.6	0.029	0.002	0.007	0.009	20.4	28.33	67		
10/4/05 11:00	0.02835	27.1	2.8	6.7	202.5	11.2	0.034	0.001	0.007	0.008	21	28.89	65		
10/4/05 12:00	0.03402	27.9	3.1	7.2	202.5	11.6	0.038	0	0.004	0.004	17.3	30.00	60		
10/4/05 13:00	0.03027	30.2	3.3	6.7	202.5	11.2	0.039	0.001	0.006	0.007	18.5	30.56	56		
10/4/05 14:00	0.03066	31	2.3	6.7	202.5	9.8	0.039	0.001	0.007	0.008	22.3	30.56	54		
10/4/05 15:00	0.03232	30.1	1.9	5.4	202.5	9.8	0.037	0.001	0.009	0.011	23.9	31.11	53		
10/4/05 16:00	0.03096	29.4	1.3	5.8	202.5	8.9	0.036	0.001	0.008	0.008	17.6	30.56	54		
10/4/05 17:00	0.03215	29	1	4.5	202.5	8.9	0.028	0	0.013	0.014	20.9	29.44	56		
10/4/05 18:00	0.03292	27.7	1.3	5.4	202.5	8	0.026	0	0.016	0.016	22.2	28.33	59		
10/4/05 19:00	0.03557	26.5	1.2	4	202.5	9.4	0.031	0	0.008	0.008	18.3	27.78	57		
10/4/05 20:00	0.03595	25.6	0.7	5.8	112.5	13.4	0.033	0	0.005	0.005	18.7	26.67	57		
10/4/05 21:00	0.03561	24.9	0.7	6.3	135	15.2	0.03	0	0.007	0.007	22	26.11	61		
10/4/05 22:00	0.03465	24.3	0.6	5.4	202.5	12.5	0.03	0	0.007	0.006	20.3	25.00	64		
10/4/05 23:00	0.0356	23.7	0.7	7.2	202.5	14.3	0.032	0	0.005	0.005	23.7	24.44	66		
10/5/05 0:00	0.03844	23.2	0.5	8	202.5	13.9	0.037	0	0.005	0.004	26.6	23.89	67		
10/5/05 1:00	0.04314	22.7	0.6	8.5	202.5	14.3	0.04	0	0.004	0.004	32.4	23.33	70		
10/5/05 2:00	0.04451	22	0.6	8.5	202.5	13.9	0.04	0	0.004	0.004	35.9	22.78	72		
10/5/05 3:00	0.04752	21.8	0.3	10.7	202.5	14.8	0.039	0	0.004	0.004	38.2	22.22	74		
10/5/05 4:00	0.04817	21.6	0.2	10.7	202.5	15.6	0.034	0	0.007	0.007	39	21.67	77		
10/5/05 5:00	0.04362	21.2	0.6	9.8	202.5	13	0.026	0.001	0.016	0.016	41.8	21.11	79		
10/5/05 6:00	0.02807	21.1	0.2	9.8	202.5	13	0.022	0.001	0.02	0.021	37.3	21.11	78		
10/5/05 7:00	0.03032	21.1	0.5	10.7	202.5	13.4	0.021	0.002	0.02	0.022	36.5	22.78	74		
10/5/05 8:00	0.02555	20.7	0.4	8.5	202.5	11.6	0.024	0.004	0.017	0.022	35.9	24.44	69		
10/5/05 9:00	0.02815	22.1	3.7	7.6	202.5	11.6	0.029	0.004	0.013	0.017	32.7	26.67	66		
10/5/05 10:00	0.02642	26.8	3.9	5.8	202.5	12.1	0.038	0.001	0.008	0.009	26.8	28.33	61		
10/5/05 11:00	0.03414	29.6	3.4	4.9	190	9.8	0.045	0	0.006	0.006	25.2	29.44	60		
10/5/05 12:00	0.04037	30.1	3.1	3.1	22.5	9.4	0.045	0	0.003	0.003	22.8	30.00	59		
10/5/05 13:00	0.0408	30	4.4	3.1	180	8	0.043	0	0.006	0.006	25.1	30.00	57		
10/5/05 14:00	0.04041	31.3	4.5	3.6	180	7.6	0.042	0	0.007	0.007	25.5	30.00	56		
10/5/05 15:00	0.03433	31.3	5.2	3.6	202.5	7.6	0.036	0	0.005	0.005	22.8	25.56	71		
10/5/05 16:00	0.03573	25.9	9	2.7	202.5	7.6	0.025	0.001	0.003	0.004	11.7	19.44	90		
10/5/05 17:00	0.0241	18.7	3	3.6	202.5	8.5	0.027	0.001	0.003	0.003	8	17.22	91		
10/5/05 18:00	0.02711	16.5	1.7	3.6	225	8.9	0.024	0	0.003	0.003	10.4	15.56	92		
10/5/05 19:00	0.02293	15.4	0.8	3.6	225	8.9	0.016	0.001	0.004	0.005	12.5	15.56	92		
10/5/05 20:00	0.01681	15.1	0.8	3.1	225	6.7	0.012	0.001	0.003	0.004	7.1	15.00	91		
10/5/05 21:00	0.01178	14.2	1	3.6	225	8	0.01	0.001	0.004	0.005	11.7	13.89	89		
10/5/05 22:00	0.01051	13.7	1	3.1	225	6.7	0.01	0.001	0.003	0.004	9.4	13.89	86		
10/5/05 23:00	0.009675	14.1	1.1	3.6	225	10.3	0.01	0	0.004	0.004	7.9	13.89	81		
10/6/05 0:00	0.009116	14.2	0.5	4.9	202.5	13	0.01	0	0.004	0.004	12.3	13.89	76		
10/6/05 1:00	0.009212	14.4	0.7	4	202.5	11.6	0.012	0	0.003	0.003	9.4	13.89	69		
10/6/05 2:00	0.01159	14.3	1.3	3.6	225	11.2	0.014	0	0.003	0.003	8.8	13.89	63		
10/6/05 3:00	0.01327	14.4	0.6	4	202.5	13	0.015	0	0.003	0.003	9.2	13.89	59		
10/6/05 4:00	0.01446	14	1.1	3.1	202.5	11.2	0.019	0.001	0.003	0.004	8.3	13.33	52		
10/6/05 5:00	0.0181	13.2	1.3	3.6	225	8.5	0.022	0	0.002	0.002	8.5	12.78	50		
10/6/05 6:00	0.02094	12.5	1.3	3.6	225	11.2	0.021	0.003	0.005	0.008	8.6	11.67	52		
10/6/05 7:00	0.0213	11.8	1.4	3.6	225	7.6	0.021	0.002	0.005	0.007	8.4	10.56	55		
10/6/05 8:00	0.01975	11.3	1.4	3.6	225	9.4	0.022	0.002	0.004	0.006	7.2	10.00	56		
10/6/05 9:00	0.02042	11.1	1.2	3.6	225	9.4	0.023	0.004	0.004	0.008	7.9	10.00	54		
10/6/05 10:00	0.02081	11.9	2.1	2.7	202.5	8	0.024	0.005	0.006	0.011	10.3	10.56	53		
10/6/05 11:00	0.02269	12.3	2.7	2.7	225	6.7	0.026	0.003	0.004	0.007	9	11.11	53		
10/6/05 12:00	0.02327	13.1	1.5	2.2	225	6.3	0.026	0.003	0.004	0.007	10.7	11.11	50		
10/6/05 13:00	0.02296	13.4	2	1.8	225	5.8	0.026	0.003	0.004	0.008	10.2	12.22	49		
10/6/05 14:00	0.02352	13.7	1.4	1.8	225	6.3	0.025	0.005	0.006	0.011	10.8	12.78	48		
10/6/05 15:00	0.02456	13.8	1	2.2	225	5.8	0.025	0.003	0.005	0.008	12.3	12.78	50		
10/6/05 16:00	0.02419	13.3	0.8	2.2	225	7.2	0.021	0.004	0.008	0.012	13.5	12.78	53		
10/6/05 17:00	0.02192	13.3	0.6	1.8	225	5.4	0.019	0.002	0.008	0.01	10.9	12.22	57		
10/6/05 18:00	0.02127	11.8	1.1	2.7	225	6.3	0.022	0.001	0.005	0.006	10	11.67	58		
10/6/05 19:00	0.02194	11.8	0.8	3.1	225	7.2	0.02	0.001	0.005	0.006	7.9	11.11	61		
10/6/05 20:00	0.02015	11.3	0.8	2.7	225	8	0.025	0.001	0.007	0.007	9	11.11	59		
10/6/05 21:00	0.02159	12.3	1.6	2.7	225	9.4	0.02	0.001	0.006	0.007	8.1	10.56	65		
10/6/05 22:00	0.01986	12.9	1	2.7	225	9.4	0.02	0.001	0.005	0.006	10.6	10.56	65		
10/6/05 23:00	0.02045	12.3	1	4.5	67.5	10.7	0.021	0	0.004	0.004	8	10.00	65		
10/7/05 0:00	0.02162	11.6	1.3	5.8	67.5	12.1	0.021	0	0.003	0.003	6	10.00	66		
10/7/05 1:00	0.02001	11.7	1	4.9	45	10.7	0.02	0	0.003	0.003	12.5	10.00	67		
10/7/05 2:00	0.01683	12.2	1.5	4	45	8.9	0.018	0	0.003	0.003	8.5	10.00	69		
10/7/05 3:00	0.01478	12.7	1	2.7	112.5	8.5	0.016	0	0.004	0.004	10.2	9.44	75		
10/7/05 4:00	0.01419	12.3	0.7	2.2	202.5	8.9	0.016	0	0.005	0.005	11.7	9.44	71		
10/7/05 5:00	0.01464	11.9	1.3	4.5	67.5	8.9	0.013	0.001	0.007	0.008	9.3	9.44	71		
10/7/05 6:00	0.01291	11.9	1.5	4	67.5	8.5	0.01	0.007	0.011	0.018	13.5	9.44	72		
10/7/05 7:00	0.01145	12.3	1.1	4	67.5	8.9	0.01	0.009	0.011	0.02	10.3	9.44	71		
10/7/05 8:00	0.009878	12.9	1.3	2.2	225	8	0.016	0.005	0.006	0.011	10.6	10.00	64		
10/7/05 9:00	0.01195	13.6	3	2.2	225	7.6	0.018	0.015	0.011	0.027	10	11.11	57		
10/7/05 10:00	0.01317	18.6	6.6	2.2	202.5	8	0.023	0.007	0.005	0.012	8.2	12.22			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
10/3/05 21:00	177	1.34112	26.1	22	20	69	4.12	160	990.86	24.8	25.6	0.8
10/3/05 22:00	179	1.34112	25.6	21.9	20	71	4.12	170	990.86	24.4	25.2	0.8
10/3/05 23:00	179	1.78816	25	21.7	20	74	4.63	160	991.20	23.7	24.4	0.7
10/4/05 0:00	183	1.78816	25	21.3	19.4	71	4.12	170	991.20	23.3	24	0.7
10/4/05 1:00	187	1.78816	23.9	21	19.4	76	3.60	160	991.20	23	23.8	0.7
10/4/05 2:00	195	1.34112	22.2	20.4	19.4	84	3.09	130	990.86	22.3	23.1	0.8
10/4/05 3:00	193	1.34112	22.8	20.6	19.4	81	3.60	150	990.86	21.5	22.4	0.9
10/4/05 4:00	176	0.89408	22.8	20.6	19.4	81	3.60	150	990.86	20.8	21.7	0.9
10/4/05 5:00	170	1.34112	22.2	20.4	19.4	84	4.63	160	991.53	20.9	21.6	0.7
10/4/05 6:00	175	1.34112	22.8	21	20	84	4.12	160	991.87	21	21.6	0.6
10/4/05 7:00	183	1.78816	24.4	21.9	20.6	79	4.12	160	992.21	22.4	22.4	0
10/4/05 8:00	178	1.78816	26.1	22.4	20.6	72	6.69	180	992.21	24.7	24.3	-0.4
10/4/05 9:00	191	2.2352	27.2	23.1	21.1	69	5.66	190	991.87	26.5	26	-0.5
10/4/05 10:00	194	2.2352	28.3	23.4	21.1	65	5.14	190	991.87	27.3	26.8	-0.5
10/4/05 11:00	188	2.2352	29.4	23.4	20.6	59	7.72	170	991.20	27.9	27.6	-0.4
10/4/05 12:00	193	2.2352	29.4	23.4	20.6	59	6.69	170	989.84	28.9	28.4	-0.5
10/4/05 13:00	190	2.2352	30.6	23.4	20	53	5.66	190	989.16	29.6	29.1	-0.5
10/4/05 14:00	186	1.78816	30.6	23.4	20	53	5.14	180	988.49	29.7	29.4	-0.3
10/4/05 15:00	200	1.78816	30.6	22.7	18.9	50	6.69	170	988.15	30	29.8	-0.2
10/4/05 16:00	190	1.34112	30.6	22.7	18.9	50	6.17	160	987.81	29.1	29.3	0.2
10/4/05 17:00	197	0.89408	28.9	22.2	18.9	55	4.12	160	987.47	27.5	28.2	0.7
10/4/05 18:00	167	1.34112	27.2	21.7	18.9	61	3.60	150	987.47	26.2	27.3	1.1
10/4/05 19:00	164	2.2352	26.7	20.9	17.8	58	5.14	150	988.15	25.7	26.6	0.9
10/4/05 20:00	165	2.68224	26.1	20.7	17.8	60	5.66	160	988.15	24.9	25.7	0.8
10/4/05 21:00	174	2.68224	25.6	20.6	17.8	62	5.66	160	988.15	24.4	25.2	0.8
10/4/05 22:00	180	2.2352	25	20.4	17.8	64	6.17	160	987.81	23.7	24.5	0.8
10/4/05 23:00	187	1.78816	24.4	19.8	17.2	64	5.66	170	987.81	23.1	23.8	0.8
10/5/05 0:00	191	1.78816	23.9	19.6	17.2	66	5.66	180	987.81	22.6	23.4	0.8
10/5/05 1:00	196	1.78816	22.8	19.3	17.2	71	6.17	180	987.81	22.3	23.1	0.7
10/5/05 2:00	193	1.78816	22.2	19.1	17.2	73	3.60	160	988.15	21.9	22.6	0.7
10/5/05 3:00	194	0.89408	21.7	18.9	17.2	76	2.57	170	988.15	21.2	21.9	0.8
10/5/05 4:00	196	0.44704	21.7	18.9	17.2	76	2.06	170	988.83	20.8	21.6	0.7
10/5/05 5:00	170	0.89408	20.6	18.5	17.2	81	3.60	140	988.83	20	20.7	0.6
10/5/05 6:00	184	0.89408	21.1	18.7	17.2	79	4.12	170	988.83	19.7	20.3	0.5
10/5/05 7:00	212	0.44704	22.8	19.6	17.8	74	3.09	180	989.50	21.1	21.2	0.1
10/5/05 8:00	167	1.34112	25	21	18.9	69	5.14	180	989.84	23.2	22.9	-0.3
10/5/05 9:00	167	1.34112	26.7	21.9	19.4	64	6.69	200	989.84	25.3	24.7	-0.6
10/5/05 10:00	195	1.78816	28.3	22.7	20	61	6.17	200	989.50	27.4	26.7	-0.7
10/5/05 11:00	213	1.78816	29.4	23.4	20.6	59	7.20	200	988.83	28.3	27.7	-0.5
10/5/05 12:00	215	1.78816	30	23.2	20	55	4.63	210	988.15	29.4	28.6	-0.8
10/5/05 13:00	189	1.78816	30.6	23.4	20	53	5.66	190	987.81	29	28.6	-0.4
10/5/05 14:00	184	1.34112	31.1	23.5	20	52	3.09	190	987.47	26.6	26.6	0
10/5/05 15:00	212	3.12928	21.7	19.5	18.3	81	8.75	360	988.49	19.2	19.2	0
10/5/05 16:00	182	4.02336	18.9	17.9	17.2	90	8.23	350	990.18	16.4	16.7	0.3
10/5/05 17:00	147	3.57632	16.7	15.4	14.4	86	6.17	350	991.53	14.8	15.2	0.4
10/5/05 18:00	102	3.57632	15.6	14.9	14.4	93	6.17	360	991.87	14.5	15	0.5
10/5/05 19:00	73	2.68224	15.6	14.6	13.9	90	6.17	350	993.23	13.9	14.5	0.6
10/5/05 20:00	93	3.12928	14.4	13.5	12.8	90	6.69	360	993.90	13.2	13.8	0.6
10/5/05 21:00	37	2.68224	13.9	12.7	11.7	87	5.14	10	994.58	12.7	13.2	0.5
10/5/05 22:00	49	3.12928	14.4	12.6	11.1	81	7.20	20	995.26	12.7	13.2	0.5
10/5/05 23:00	37	3.57632	14.4	12	10	75	5.66	20	995.60	12.9	13.5	0.5
10/6/05 0:00	34	3.57632	14.4	11.5	8.9	70	6.17	20	995.94	12.9	13.5	0.5
10/6/05 1:00	42	3.57632	14.4	11	7.8	65	5.66	30	996.28	13	13.5	0.5
10/6/05 2:00	40	4.02336	13.9	10.5	7.2	64	6.17	20	996.28	12.8	13.3	0.5
10/6/05 3:00	38	4.02336	13.3	10	6.7	65	5.14	360	997.29	12.4	12.9	0.5
10/6/05 4:00	44	4.4704	13.3	8.5	3.3	51	7.72	10	996.95	11.8	12.3	0.4
10/6/05 5:00	38	4.4704	12.2	7.6	2.2	51	7.20	10	997.63	11	11.4	0.4
10/6/05 6:00	49	4.4704	11.7	7.3	2.2	52	6.69	10	997.97	9.8	10.1	0.4
10/6/05 7:00	57	4.4704	10.6	6.8	2.2	56	7.20	10	997.97	9	9.2	0.2
10/6/05 8:00	58	4.91744	10.6	6.6	1.7	54	8.23	30	998.31	9	8.9	-0.1
10/6/05 9:00	51	4.4704	10	5.8	0.6	52	7.72	360	998.65	9.4	9.1	-0.3
10/6/05 10:00	60	4.02336	10.6	6.3	1.1	52	6.17	360	998.31	9.7	9.4	-0.4
10/6/05 11:00	82	3.57632	11.7	7.1	1.7	51	6.69	360	998.31	10.9	10.3	-0.6
10/6/05 12:00	72	4.02336	11.7	7.1	1.7	51	7.72	360	997.63	11.6	11.1	-0.5
10/6/05 13:00	72	3.57632	12.8	7.7	1.7	47	7.20	360	996.61	12	11.6	-0.3
10/6/05 14:00	63	3.57632	12.8	8.1	2.8	51	5.66	350	996.28	12.1	11.9	-0.3
10/6/05 15:00	93	3.12928	12.8	8.1	2.8	51	4.63	360	995.94	12.3	12.2	0
10/6/05 16:00	83	1.78816	12.8	8.5	3.9	55	4.12	10	994.92	11.8	12.1	0.3
10/6/05 17:00	80	2.2352	12.2	8.2	3.9	57	5.66	360	995.26	11	11.5	0.4
10/6/05 18:00	83	2.68224	11.1	7.7	3.9	61	5.66	360	995.60	10.4	10.8	0.4
10/6/05 19:00	78	2.68224	11.1	7.4	3.3	59	6.17	10	995.94	10	10.4	0.4
10/6/05 20:00	38	2.68224	11.1	7.2	2.8	57	6.17	20	995.94	9.9	10.2	0.4
10/6/05 21:00	35	2.68224	10.6	7.2	3.3	61	5.66	10	996.28	9.5	9.9	0.3
10/6/05 22:00	36	2.68224	10.6	7.2	3.3	61	5.66	20	995.94	9.3	9.6	0.3
10/6/05 23:00	36	2.68224	10.6	7.4	3.9	64	3.09	30	995.60	9.1	9.4	0.3
10/7/05 0:00	35	2.68224	10.6	7.7	4.4	66	4.12	20	995.60	9	9.3	0.3
10/7/05 1:00	35	2.68224	10.6	7.4	3.9	64	3.60	10	995.60	9	9.3	0.3
10/7/05 2:00	38	2.2352	10	7.4	4.4	68	4.63	10	995.60	9.1	9.4	0.3
10/7/05 3:00	41	2.2352	9.4	7.3	5	74	5.14	20	995.26	8.9	9.2	0.3
10/7/05 4:00	36	2.68224	10	7.4	4.4	68	3.60	30	995.60	8.8	9.1	0.3
10/7/05 5:00	34	2.68224	9.4	7	4.4	71	4.12	10	995.60	8.6	9	0.4
10/7/05 6:00	35	2.2352	10	7.4	4.4	68	4.63	30	995.94	8.4	8.8	0.4
10/7/05 7:00	35	2.2352	10.6	7.7	4.4	66	4.12	10	996.28	8.6	8.8	0.2
10/7/05 8:00	43	3.57632	11.1	7.7	3.9	61	5.14	10	996.28	10.1	9.6	-0.5
10/7/05 9:00	53	3.57632	12.2	8	3.3	55	5.66	10	995.94	11.4	10.5	-0.9
10/7/05 10:00	58	3.57632	13.3	8.1	2.2	47	5.14	30	995.26	12.9	11.8	-1.1
10/7/05 11:00	58	4.02336	15	9.1	2.8	44	5.66	30	994.58	14.1	13	-1.1
10/7/05 12:00	55	3.57632	16.1	9.4	2.2	39	4.12	20	993.57	15	13.8	-1.2
10/7/05 13:00	58	3.57632	16.7	9.9	2.8	40	5.66	20	992.55	15.9	14.8	-1.1
10/7/05 14:00	50	3.57632	17.2	10.1	2.8	38	3.60	20	992.21	16.3	15.3	-1
10/7/05 15:00	51	3.12928	17.2	10.1	2.8	38	4.63	360	991.53	16.2	15.7	-0.6
10/7/05 16:00	50	3.12928	16.7	9.5	1.7	37	4.12	30	991.87	15.6	15.5	-0.2
10/7/05 17:00	42	2.2352	13.3	8.8	3.9	53	4.12	360	991.53	13.6	14.4	0.7
10/7/05 18:00	33	1.34112	11.1	7.9	4.4	64	3.09	360	991.53	11.3	12.9	1.6
10/7/05 19:00	97	0.44704	11.1	7.9								

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Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{TOT} (%)	PCPN (in)	P _{A65} (hPa)
10/3/05 21:00	75.7	2	2.9	0.9	5.7	0.7	154.7	13.2	-0.1	0	0	984.11
10/3/05 22:00	76.2	2.1	3	0.9	5.6	0.7	157.5	13.9	0	0	0	984.26
10/3/05 23:00	78.8	1.9	2.8	0.9	5.4	0.6	155.3	13.1	-0.1	0	0	984.24
10/4/05 0:00	79.8	2.1	2.9	0.9	5.4	0.7	162.7	13.6	0	0	0	984.27
10/4/05 1:00	80.8	1.8	2.7	0.9	5.9	0.7	171.3	13.2	0	0	0	984.37
10/4/05 2:00	84.1	1.3	2.1	0.8	4.4	0.5	161.3	13.1	0	0	0	984.19
10/4/05 3:00	87.9	1	2	1	3.3	0.4	144.3	9.7	0	0	0	984.21
10/4/05 4:00	90.6	1	2.1	1	3.4	0.3	142.6	8.9	0	0	0	984.26
10/4/05 5:00	91.1	1.5	2.4	0.9	4.5	0.5	152.2	11.9	0	0	0	984.51
10/4/05 6:00	90.6	1.8	2.6	0.8	5	0.6	152.8	12.1	15.2	0.05	0	984.86
10/4/05 7:00	86.5	1.9	2.7	0.8	5.3	0.6	151.8	12.6	15.7	0.57	0	985.2
10/4/05 8:00	79.2	2.1	2.9	0.8	5.8	0.8	163.3	16.3	343.8	1.24	0	985.22
10/4/05 9:00	72.9	3	4	1	7.5	1.1	176.8	14.8	509.3	1.83	0	985.03
10/4/05 10:00	70.6	3.4	4.6	1.3	8.9	1.2	182.4	13	537.3	1.93	0	984.93
10/4/05 11:00	67.9	3.5	4.8	1.3	9.2	1.1	185.1	14.8	544.8	1.96	0	984.53
10/4/05 12:00	63.7	3.2	4.3	1.1	8.2	1.1	146.8	15	635.1	2.29	0	983.71
10/4/05 13:00	59.4	3.2	4.3	1.1	7.9	1	151	15.8	603.4	2.17	0	982.82
10/4/05 14:00	57.9	2.7	3.7	1	7.3	0.9	176.2	14.8	494.2	1.78	0	982.25
10/4/05 15:00	54.8	3	4.2	1.2	8.1	1	154.8	12.5	426.9	1.54	0	981.77
10/4/05 16:00	57.3	2.4	3.4	1	6.7	0.8	186.9	12.3	237.1	0.85	0	981.37
10/4/05 17:00	64.8	1.2	2.2	1	4.7	0.4	156.3	8.9	65.8	0.24	0	981.11
10/4/05 18:00	68.8	1.3	2.3	1	6	0.5	151.8	11.2	0.6	0	0	981.01
10/4/05 19:00	65.9	1.9	2.8	0.9	5.9	0.7	155.4	13.3	-0.1	0	0	981.09
10/4/05 20:00	66.3	2.3	3.2	0.9	6.5	0.8	157.9	14.3	0	0	0	981.17
10/4/05 21:00	67.4	2.1	3.2	1.1	6	0.8	154	14.2	-0.1	0	0	981.34
10/4/05 22:00	70.4	2	2.8	0.8	6.2	0.7	161.7	14.4	0	0	0	981.31
10/4/05 23:00	71.8	2.1	2.9	0.8	5.9	0.7	162.8	13.9	0	0	0	980.98
10/5/05 0:00	73.3	2.1	3	0.9	5.7	0.7	170.3	12.6	0	0	0	980.97
10/5/05 1:00	73.2	2.4	3.4	1	6.6	0.8	174	12.2	0	0	0	981.13
10/5/05 2:00	75	2.4	3.5	1.1	6.8	0.8	179.8	12.2	-0.1	0	0	981.4
10/5/05 3:00	78	1.6	2.6	0.9	4.4	0.5	179.1	10.7	0	0	0	981.64
10/5/05 4:00	79.4	2.1	3.1	1.1	5.8	0.6	150.9	10.1	0	0	0	981.83
10/5/05 5:00	83.3	1.7	2.5	0.9	5.1	0.6	160.8	12.3	0	0	0	981.82
10/5/05 6:00	85.5	1.6	2.5	0.8	4.9	0.6	173.8	12.5	14.8	0.05	0	982.03
10/5/05 7:00	81.4	2	2.9	0.9	6	0.6	160.4	10.1	148.1	0.53	0	982.57
10/5/05 8:00	75	3.1	4.3	1.2	7.7	0.9	163.2	11.2	329.8	1.19	0	982.81
10/5/05 9:00	70.2	3.3	4.5	1.3	8.4	0.9	162.8	12.4	499.8	1.8	0	982.82
10/5/05 10:00	66	3.4	4.6	1.2	9.1	1	164.9	13.3	621.3	2.24	0	982.66
10/5/05 11:00	63.7	3.5	4.9	1.4	8.3	1	180.8	12.9	579.3	2.09	0	982.49
10/5/05 12:00	60.9	3	4.2	1.2	6.8	0.8	181	13.4	684.9	2.47	0	981.65
10/5/05 13:00	63.2	2.2	3.2	1	6.1	0.7	165.6	13.3	449.5	1.62	0	981.16
10/5/05 14:00	66.8	2.8	4	1.3	11.3	1	224.4	15.9	213.3	0.77	0	981.24
10/5/05 15:00	87	3.3	4.9	1.6	9.3	1.3	294.6	15.1	71.7	0.26	0	982.63
10/5/05 16:00	92.2	3.5	5.1	1.6	11.3	1.3	175.5	14.6	21.6	0.08	0.17	983.75
10/5/05 17:00	94.2	4.1	5.9	1.8	11.1	1.5	179.5	13.1	5.4	0.02	1.16	984.49
10/5/05 18:00	94.3	4	5.9	1.9	12.3	1.4	252.7	15.4	0	0	0.54	985.24
10/5/05 19:00	91.7	4	5.8	1.9	11.2	1.4	239.5	12.3	0	0	0.09	985.83
10/5/05 20:00	90.8	2.8	4.1	1.4	9.5	1.1	122.1	13.5	0	0	0.06	987.03
10/5/05 21:00	87.9	3.3	4.6	1.4	8.7	1.1	20.9	12.8	0	0	0	987.82
10/5/05 22:00	85.3	3.4	4.8	1.4	9.8	1.2	21.6	13.4	0	0	0	988.43
10/5/05 23:00	79.8	3	4.3	1.3	8.4	1.1	24.3	14.6	0	0	0	988.72
10/6/05 0:00	72	3.4	4.7	1.3	9.6	1.2	21.5	13.8	0	0	0	989.12
10/6/05 1:00	65	3.8	5.3	1.5	9.9	1.3	23	13.6	0	0	0	989.62
10/6/05 2:00	60.8	4	5.6	1.6	11.2	1.3	20.4	13.5	0	0	0	989.65
10/6/05 3:00	56.7	3.6	5.1	1.6	9.4	1.2	18.3	13.5	0	0	0	990.34
10/6/05 4:00	51.6	3.5	4.9	1.5	10.6	1.3	19.3	13.1	0	0	0	990.64
10/6/05 5:00	54.3	3.5	4.9	1.5	9.9	1.1	12.4	12.2	0	0	0	991.22
10/6/05 6:00	58.9	3.3	4.8	1.5	10.2	1.1	9.1	13	5.4	0.02	0	991.29
10/6/05 7:00	61.2	3.3	4.6	1.4	9.5	1.2	6.4	13.4	51.8	0.19	0	991.74
10/6/05 8:00	59.8	3.6	5.1	1.5	10.1	1.4	9.1	14.3	191.9	0.69	0	991.99
10/6/05 9:00	58	3.3	4.6	1.3	9.4	1.2	42.7	14.8	289.5	1.04	0	991.93
10/6/05 10:00	57.3	2.9	4.1	1.1	7.7	1	20.8	15.8	292.3	1.05	0	991.94
10/6/05 11:00	54.8	3	4.1	1.2	7.9	1.1	42.8	15.9	384.6	1.38	0	991.67
10/6/05 12:00	52.8	2.7	3.9	1.2	7.9	1	125.6	15.1	354.3	1.28	0	991.22
10/6/05 13:00	51.9	2.9	4.1	1.2	7.7	1	96.7	15.4	267.7	0.96	0	990.21
10/6/05 14:00	52.1	2.5	3.5	1	6.4	0.9	20.5	14.6	247	0.89	0	989.51
10/6/05 15:00	54.2	1.9	2.8	0.9	5.3	0.6	18.5	13.3	129.2	0.47	0	989.08
10/6/05 16:00	59.6	1.7	2.7	0.9	6.8	0.7	8.3	11.8	43.3	0.16	0	988.71
10/6/05 17:00	59.8	2.3	3.4	1.1	7.4	0.9	11.9	11.1	9.1	0.03	0	988.45
10/6/05 18:00	58.1	3	4.3	1.4	9.2	1	92.6	13.4	0.1	0	0	988.69
10/6/05 19:00	51	2.3	3.4	1.1	6.5	0.8	15	13.2	0	0	0	989
10/6/05 20:00	62.2	2.3	3.4	1	6.8	0.8	23.3	13.3	0	0	0	989.33
10/6/05 21:00	65.8	2	2.9	0.9	6.2	0.8	25.7	13.4	0	0	0	989.46
10/6/05 22:00	69.3	1.7	2.5	0.8	4.5	0.6	28.1	13.6	0	0	0	989.38
10/6/05 23:00	72.5	1.7	2.5	0.8	4.7	0.6	32.6	14.2	0	0	0	989.03
10/7/05 0:00	74.7	2	2.9	0.9	5.8	0.7	36.3	13.8	0	0	0	988.91
10/7/05 1:00	74.6	2	2.9	0.9	5.9	0.7	26.6	13	0	0	0	988.8
10/7/05 2:00	72.3	2.3	3.2	1	6.1	0.7	23.3	13.3	0	0	0	988.77
10/7/05 3:00	73.3	2.2	3.1	0.9	6	0.7	23.2	13.2	0	0	0	988.64
10/7/05 4:00	74.1	2	2.9	0.9	5.6	0.7	29	14.5	0	0	0	988.7
10/7/05 5:00	74.3	1.8	2.6	0.8	4.9	0.6	23.3	13.3	0	0	0	988.83
10/7/05 6:00	72.1	1.9	2.8	0.9	5.7	0.7	27	13.9	6.3	0.02	0	988.95
10/7/05 7:00	70.3	2.3	3.3	1	7.3	0.8	22.5	14.3	80.3	0.29	0	989.5
10/7/05 8:00	63.7	2.8	3.9	1.1	7.3	1	24.4	16.2	335.3	1.21	0	989.51
10/7/05 9:00	56.1	2.8	3.8	1	6.9	1	38.5	17.2	519.8	1.87	0	989.39
10/7/05 10:00	50.3	3	4	1.1	7.8	1	31.4	18.7	663.7	2.39	0	988.82
10/7/05 11:00	48.3	2.7	3.6	0.9	6.9	1	25.3	17.4	734.9	2.65	0	988.08
10/7/05 12:00	44.4	2.6	3.5	0.9	7.3	1	81.1	18.1	747.9	2.69	0	987.29
10/7/05 13:00	41.8	2.3	3.1	0.8	6.1	0.9	30.8	19	701	2.52	0	986.33
10/7/05 14:00	40.4	2.5	3.4	1	7.2	0.9	52.3	17.2	595.5	2.14	0	985.63
10/7/05 15:00	40.6	2.1	2.9	0.8	5.8	0.9	28.3	17.6	438.8	1.58	0	985.11
10/7/05 16:00	42.3	1.8	2.7	0.9	5.6	0.6	26.4	14.8	250.8	0.9	0	984.89
10/7/05 17:00	49.9	0.9	1.7	0.8	3.6	0.3	19.8	10.4	63.6	0.23	0	984.91
10/7/05 18:00	61.9	0.5	1.7	1.3	3.2	0.3	7.8	8.3	0.1	0	0	984.76
10/7/05 19:00	60.6	1	2	1	3.4	0.4	16.1	9.8	0	0	0	984.75
10/7/05 20:00	60.9	0.8	1.7	0.9	3.7	0.4	25.3	12.5	0	0	0	984.82
10/7/05 21:00	63.3	1.2	2	0.9	4.3	0.5	32.8	12.9	0	0	0	984.75
10/7/05 22:00	68.3	1.5	2.4	0.9	4.3	0.5	40.3	12.2	0	0	0	984.57
10/7/05 23:00	75.7	1.7	2.6	0.9	4.8	0.6	44.7	12.3	0	0	0	984.47
10/8/05 0:00	80.8	1.6	2.4	0.8	4.7	0.5	51.8	12.1				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
10/8/05 12:00	0.01218	33.1	5	0.9	90	3.6	0.03	0.003	0.005	0.008	12.5	16.11	43	
10/8/05 13:00	0.01734	32.8	2.3	0.9	90	3.1	0.037	0.001	0.004	0.004	9.7	17.78	38	
10/8/05 14:00	0.02387	32.8	3.8	0.9	0	4	0.039	0.001	0.004	0.005	14.2	18.89	36	
10/8/05 15:00	0.03065	31.3	5.3	0.9	0	4	0.039	0.002	0.005	0.006	13.2	18.89	34	
10/8/05 16:00	0.03394	27.3	5.9	0.9	225	4	0.037	0.001	0.007	0.008	11.5	19.44	34	
10/8/05 17:00	0.03028	22.8	2.5	0.4	22.5	2.2	0.022	0.006	0.017	0.023	13.8	18.33	41	
10/8/05 18:00	0.02914	19.6	3.2	0.4	247.5	2.7	0.003	0.031	0.026	0.057	12	13.33	67	
10/8/05 19:00	0.01923	16.9	2.1	0	247.5	0.9	0	0.051	0.02	0.071	17.4	10.56	84	
10/8/05 20:00	0.02621	15.9	0.6	0.4	22.5	2.7	0	0.074	0.016	0.09	18.7	9.44	89	
10/8/05 21:00	0.02869	15.6	1	0.4	67.5	3.1	0	0.04	0.014	0.053	18.7	8.89	91	
10/8/05 22:00	0.02671	15.7	0.6	0.4	225	3.6	0	0.036	0.013	0.05	16.6	8.33	91	
10/8/05 23:00	0.02368	15.2	1.3	1.3	270	4	0	0.05	0.01	0.06	18.9	7.78	93	
10/9/05 0:00	0.02377	14.5	0.4	1.8	270	4	0	0.047	0.008	0.054	18	7.22	93	
10/9/05 1:00	0.02824	15.4	1.9	4.5	112.5	8.5	0	0.044	0.006	0.05	17.4	6.67	94	
10/9/05 2:00	0.02663	15.7	1.3	1.3	315	5.8	0	0.04	0.006	0.046	17	6.67	94	
10/9/05 3:00	0.03061	15.1	1.2	4.5	202.5	8	0	0.027	0.006	0.033	17.5	7.22	95	
10/9/05 4:00	0.02716	13.6	1.7	4	180	10.3	0	0.014	0.008	0.022	17.3	7.78	94	
10/9/05 5:00	0.03736	14.3	1.5	7.6	202.5	10.3	0	0.006	0.008	0.014	17.6	7.22	94	
10/9/05 6:00	0.03238	13.6	1.7	5.8	202.5	8.5	0	0.016	0.006	0.022	18.7	6.67	94	
10/9/05 7:00	0.03524	13.8	0.8	7.6	202.5	10.3	0.001	0.018	0.006	0.024	18.5	7.78	94	
10/9/05 8:00	0.03288	13.2	0.9	8.9	202.5	10.7	0.012	0.011	0.01	0.021	12	13.89	74	
10/9/05 9:00	0.02043	13.3	4.3	5.8	180	10.3	0.027	0.002	0.007	0.009	15	17.22	59	
10/9/05 10:00	0.02351	21.3	9	2.7	202.5	6.3	0	0.033	0.001	0.005	0.006	19.6	18.89	53
10/9/05 11:00	0.02903	25.8	7.1	2.2	202.5	5.4	0.039	0.001	0.005	0.006	18.6	20.00	50	
10/9/05 12:00	0.03411	31.4	3.9	1.3	180	5.8	0.044	0.001	0.005	0.006	17.1	20.56	47	
10/9/05 13:00	0.03978	31.9	3.3	1.8	112.5	6.3	0.045	0.001	0.006	0.008	18.4	21.67	42	
10/9/05 14:00	0.04428	31.2	4.3	2.2	112.5	7.6	0.047	0.001	0.006	0.007	15.7	22.22	37	
10/9/05 15:00	0.0469	29.2	4.3	2.2	112.5	6.7	0.049	0.001	0.006	0.006	13.6	22.22	36	
10/9/05 16:00	0.04703	26.1	4.7	2.7	112.5	7.6	0.049	0	0.006	0.007	15.2	22.22	36	
10/9/05 17:00	0.04793	22.4	1.5	2.7	112.5	7.6	0.037	0.002	0.015	0.018	14.3	21.11	40	
10/9/05 18:00	0.04389	20.6	2.1	2.7	112.5	6.3	0.008	0.016	0.035	0.051	20.1	16.11	64	
10/9/05 19:00	0.04701	19.2	0.5	2.2	112.5	7.2	0	0.055	0.032	0.086	19	13.33	80	
10/9/05 20:00	0.04926	18.9	0.2	3.1	157.5	7.2	0	0.061	0.024	0.085	20	12.22	87	
10/9/05 21:00	0.04748	18.8	0.1	2.7	90	9.4	0	0.034	0.02	0.054	18.9	11.67	88	
10/9/05 22:00	0.04762	18.8	0.4	2.2	90	8.5	0	0.036	0.016	0.052	20.5	11.11	91	
10/9/05 23:00	0.03521	17.4	1.9	5.4	112.5	10.3	0	0.028	0.015	0.044	22.3	10.56	92	
10/10/05 0:00	0.03374	16.5	0.5	4.9	112.5	11.6	0	0.023	0.012	0.035	20	10.00	92	
10/10/05 1:00	0.03253	15.8	1	4.5	135	10.7	0	0.015	0.011	0.026	21.4	9.44	93	
10/10/05 2:00	0.0345	15.4	0.5	4	135	8.5	0	0.011	0.009	0.02	19.3	8.89	93	
10/10/05 3:00	0.03251	14.9	0.8	3.6	135	9.4	0	0.012	0.008	0.02	19	9.44	93	
10/10/05 4:00	0.02956	14.6	0.5	3.6	112.5	8	0	0.01	0.01	0.019	20.8	9.44	94	
10/10/05 5:00	0.02573	14.4	0.5	3.1	112.5	7.2	0	0.031	0.011	0.042	18.1	9.44	94	
10/10/05 6:00	0.02347	14.3	0.6	4.5	112.5	8.5	0	0.026	0.015	0.042	20.9	10.00	92	
10/10/05 7:00	0.01956	14.2	0.8	4.5	112.5	9.4	0.001	0.049	0.018	0.067	21.8	10.56	91	
10/10/05 8:00	0.0166	14.1	0.7	4.5	112.5	8	0.003	0.027	0.018	0.045	21.6	12.22	87	
10/10/05 9:00	0.01295	14.9	2.5	3.1	112.5	8.5	0.006	0.021	0.019	0.04	23.1	13.89	79	
10/10/05 10:00	0.0076	16.7	4.4	1.3	112.5	4.5	0.013	0.013	0.018	0.031	24.3	16.11	70	
10/10/05 11:00	0.01063	20.1	2.3	0.4	225	2.7	0.021	0.005	0.016	0.021	20.7	17.78	63	
10/10/05 12:00	0.01162	21.3	3	0.4	225	2.2	0.023	0.006	0.017	0.023	22.1	17.78	62	
10/10/05 13:00	0.01474	21.6	2.7	0.4	225	2.2	0.023	0.007	0.02	0.028	25.6	18.33	62	
10/10/05 14:00	0.01473	21.1	2.9	1.3	225	4.9	0.031	0.008	0.014	0.022	29.7	18.89	61	
10/10/05 15:00	0.02837	25.7	1.8	1.8	67.5	5.8	0.037	0.004	0.011	0.015	26	20.00	56	
10/10/05 16:00	0.03664	25.2	5.1	1.8	22.5	5.8	0.034	0.005	0.015	0.019	24.6	20.56	53	
10/10/05 17:00	0.0316	21.8	2	1.3	22.5	4.9	0.015	0.014	0.029	0.043	24.5	19.44	62	
10/10/05 18:00	0.03288	19.7	1.7	1.3	22.5	4.9	0.002	0.032	0.033	0.065	23.9	16.11	60	
10/10/05 19:00	0.03358	18.3	1.3	0.9	202.5	3.6	0	0.044	0.023	0.067	23.6	13.89	89	
10/10/05 20:00	0.03973	17.5	0.6	1.3	202.5	3.6	0	0.027	0.021	0.048	23.2	12.78	91	
10/10/05 21:00	0.03656	16.9	0.5	0.9	247.5	4	0.002	0.009	0.017	0.027	21.9	12.22	91	
10/10/05 22:00	0.03494	16.9	0.4	1.8	247.5	4	0	0.022	0.016	0.038	21.4	11.67	93	
10/10/05 23:00	0.03697	17.6	1	3.1	112.5	7.2	0	0.014	0.012	0.026	22	11.11	94	
10/11/05 0:00	0.03935	17.2	1	3.1	180	8.5	0	0.013	0.009	0.022	21.8	10.56	94	
10/11/05 1:00	0.03357	17.6	1	2.2	337.5	7.6	0	0.009	0.01	0.018	21.2	11.11	94	
10/11/05 2:00	0.0363	16.6	1.5	3.6	157.5	8	0	0.007	0.008	0.015	20.4	12.22	94	
10/11/05 3:00	0.03464	15.7	0.6	3.1	202.5	7.6	0.001	0.005	0.01	0.015	21.3	12.22	92	
10/11/05 4:00	0.03362	15.3	0.9	2.7	202.5	6.3	0	0.007	0.009	0.016	20	12.22	92	
10/11/05 5:00	0.03384	15.1	0.4	4	180	8.5	0	0.014	0.011	0.026	23.8	12.78	92	
10/11/05 6:00	0.02487	14.9	1.3	4	202.5	7.6	0	0.02	0.013	0.034	27	13.33	91	
10/11/05 7:00	0.02916	15.4	1.1	3.6	202.5	7.2	0.001	0.027	0.014	0.041	29	13.89	90	
10/11/05 8:00	0.01802	15.9	1	1.8	202.5	5.4	0.003	0.026	0.016	0.041	31.9	15.00	85	
10/11/05 9:00	0.01798	16.9	2	2.7	180	6.7	0.016	0.017	0.02	0.037	32.7	18.33	72	
10/11/05 10:00	0.02311	19.1	2.6	2.2	202.5	5.8	0.031	0.002	0.01	0.012	33.6	20.00	66	
10/11/05 11:00	0.03122	20.5	3.7	3.1	202.5	6.3	0.036	0.005	0.011	0.013	34.1	21.11	60	
10/11/05 12:00	0.02961	24	9.2	2.7	202.5	6.7	0.038	0.001	0.011	0.012	30.5	21.67	62	
10/11/05 13:00	0.03635	21.2	3.2	2.7	180	7.2	0.037	0.001	0.012	0.012	33.5	21.67	61	
10/11/05 14:00	0.03642	21.7	4.4	2.2	202.5	4.9	0.041	0.001	0.01	0.011	31.7	21.67	62	
10/11/05 15:00	0.04289	22.6	3	1.8	202.5	4.5	0.04	0.001	0.012	0.013	35.3	21.67	63	
10/11/05 16:00	0.03175	20.9	1.5	2.2	202.5	4.5	0.031	0.002	0.021	0.023	36.3	21.67	63	
10/11/05 17:00	0.0304	22.4	1.7	0.9	202.5	3.1	0.028	0.001	0.023	0.024	35.5	20.56	68	
10/11/05 18:00	0.04538	20.3	1.7	1.3	202.5	3.6	0.009	0.023	0.031	0.054	36.6	17.78	81	
10/11/05 19:00	0.04332	19.4	0.1	3.1	202.5	5.4	0	0.055	0.029	0.084	34.5	16.11	91	
10/11/05 20:00	0.04433	19.4	0.2	4.5	202.5	5.8	0	0.055	0.024	0.08	36.4	15.00	93	
10/11/05 21:00	0.0338	19.2	0.2	3.1	180	5.4	0	0.066	0.015	0.081	36.1	13.89	94	
10/11/05 22:00	0.0316	18.8	0.6	2.7	180	5.8	0	0.058	0.014	0.072	34.1	13.33	95	
10/11/05 23:00	0.03912	18.4	0.4	3.1	180	5.8	0	0.056	0.013	0.069	33.5	12.78	95	
10/12/05 0:00	0.02839	18.2	0.3	4	180	5.8	0	0.061	0.01	0.07	35.8	12.22	95	
10/12/05 1:00	0.04067	18.5	0.4	4.5	180	6.3	0	0.051	0.006</					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{AM} (°C)	
10/8/05 12:00	98	1.34112	17.8	10.6	3.3	38	2.57	70	989.16	16	14.7	-1.3
10/8/05 13:00	97	1.34112	18.9	10.9	2.8	34	2.57	360	988.15	17	15.9	-1.1
10/8/05 14:00	91	1.34112	19.4	11.1	2.8	33	1.54	50	987.47	18	17.1	-0.9
10/8/05 15:00	93	1.34112	19.4	11.5	3.9	36	1.54	0	987.13	18.2	17.7	-0.5
10/8/05 16:00	85	0.89408	19.4	11.9	5	39	0.00	0	986.79	17.8	17.7	-0.1
10/8/05 17:00	56	0.89408	15.6	10.7	6.1	53	2.06	350	986.79	15.5	16.7	1.1
10/8/05 18:00	192	0	13.9	10.2	6.7	62	1.54	350	987.13	11.5	15.4	3.9
10/8/05 19:00	198	0	13.3	10	6.7	65	2.06	360	987.13	12.7	14.6	2
10/8/05 20:00	202	0	11.1	8.9	6.7	75	2.57	20	987.47	12	13.5	1.5
10/8/05 21:00	187	0	11.7	8.7	5.6	66	1.54	20	987.13	11.5	12.7	1.1
10/8/05 22:00	223	0	9.4	8.1	6.7	83	2.06	330	986.79	10.7	11.9	1.2
10/8/05 23:00	222	0	8.9	7.8	6.7	86	1.54	310	986.45	10	11.3	1.3
10/9/05 0:00	159	0	8.9	7.8	6.7	86	1.54	350	986.12	9.5	10.9	1.4
10/9/05 1:00	173	0	8.3	7.5	6.7	90	0.00	0	986.45	9.3	10.5	1.2
10/9/05 2:00	172	0	8.3	7.5	6.7	90	0.00	0	986.79	8.5	9.8	1.3
10/9/05 3:00	203	0	8.9	7.8	6.7	86	0.00	0	986.79	8.9	9.2	0.3
10/9/05 4:00	120	0	8.3	7.5	6.7	90	0.00	0	986.79	9.3	9.8	0.5
10/9/05 5:00	150	0	8.9	7.5	6.1	83	1.54	100	986.45	8	9.1	1.1
10/9/05 6:00	164	0	6.7	6.2	5.6	93	0.00	0	986.45	7.3	8.6	1.3
10/9/05 7:00	166	0.44704	10.6	9.2	7.8	83	1.54	120	986.79	10.3	10.5	0.1
10/9/05 8:00	172	0.89408	14.4	11.2	8.3	67	4.12	150	987.13	13.7	13.1	-0.6
10/9/05 9:00	186	1.34112	16.7	12.2	8.3	58	3.60	200	987.13	15.1	14.1	-1
10/9/05 10:00	197	1.34112	18.3	13.2	8.9	54	3.60	170	987.13	17.5	16.3	-1.2
10/9/05 11:00	175	1.78816	20	13.9	8.9	49	3.60	180	986.45	19.4	18.2	-1.2
10/9/05 12:00	150	2.2352	21.1	14	8.3	44	4.63	130	985.10	20.6	19.4	-1.2
10/9/05 13:00	147	2.2352	22.2	14	7.2	38	3.60	170	984.42	21.3	20.2	-1.1
10/9/05 14:00	151	2.2352	22.8	14.2	7.2	37	3.09	120	984.08	21.6	20.7	-0.9
10/9/05 15:00	158	2.2352	22.8	14.2	7.2	37	4.12	140	983.75	21.7	21.1	-0.5
10/9/05 16:00	150	2.2352	21.1	13.3	6.7	39	3.09	120	983.75	20.9	21	0.1
10/9/05 17:00	143	1.34112	20	13.1	7.2	44	1.54	140	984.08	19	19.9	0.9
10/9/05 18:00	217	0	17.8	12.5	7.8	52	2.06	150	984.42	16.2	19.2	3
10/9/05 19:00	245	0	16.1	12	8.3	60	2.57	140	985.10	15.6	19	3.4
10/9/05 20:00	128	0	16.7	11.7	7.2	54	2.06	120	985.44	14.3	17.6	3.3
10/9/05 21:00	87	0.44704	15.6	11	6.7	56	2.06	70	985.78	14.5	16.7	2.2
10/9/05 22:00	183	0	13.3	10.5	7.8	70	1.54	110	985.78	14.1	15.4	1.3
10/9/05 23:00	129	0.44704	12.2	9.9	7.8	75	2.57	120	986.12	13.1	14.3	1.2
10/10/05 0:00	186	0	12.8	10.2	7.8	72	0.00	0	986.79	12.1	13.3	1.2
10/10/05 1:00	98	0.44704	12.8	10.2	7.8	72	0.00	0	987.13	11.6	13.3	1.6
10/10/05 2:00	205	0	10.6	9.2	7.8	83	0.00	0	987.47	11.1	12.4	0.3
10/10/05 3:00	106	0	11.1	9.4	7.8	80	2.06	80	987.13	10	11.2	1.1
10/10/05 4:00	161	0	10.6	9.4	8.3	86	0.00	0	987.47	10.2	11.1	0.9
10/10/05 5:00	95	0.44704	11.7	10	8.3	80	0.00	0	987.81	9.9	10.6	0.7
10/10/05 6:00	128	0.44704	10.6	9.4	8.3	86	1.54	120	988.49	9.8	10.4	0.6
10/10/05 7:00	98	0.44704	12.2	10.5	8.9	80	1.54	110	988.83	11.1	11.1	0
10/10/05 8:00	48	0.89408	13.9	11.5	9.4	75	0.00	0	988.83	12.1	11.8	-0.2
10/10/05 9:00	65	0.89408	16.1	12.8	10	67	2.57	140	989.16	14	13.6	-0.5
10/10/05 10:00	90	0.44704	16.7	13	10	65	1.54	0	989.50	15.1	14.6	-0.5
10/10/05 11:00	148	0.89408	17.8	14	11.1	65	0.00	0	989.50	15.6	15.2	-0.4
10/10/05 12:00	86	1.34112	18.9	14.2	10.6	59	2.06	0	988.83	16.3	15.9	-0.4
10/10/05 13:00	51	1.34112	18.9	14.5	11.1	61	3.09	20	988.15	17.1	16.8	-0.4
10/10/05 14:00	46	2.68224	21.7	15.9	11.7	53	4.63	40	987.81	18.3	17.7	-0.6
10/10/05 15:00	46	2.2352	21.1	15.4	11.1	53	2.57	10	987.47	19.6	19.1	-0.6
10/10/05 16:00	62	1.78816	21.1	15.4	11.1	53	3.09	20	987.81	19.5	19.4	-0.1
10/10/05 17:00	52	0.89408	17.2	14.1	11.7	70	2.57	360	987.81	17.5	18.2	0.7
10/10/05 18:00	175	0	16.7	13.9	11.7	73	2.06	360	988.15	16.1	17.4	1.3
10/10/05 19:00	149	0	15	13.2	11.7	81	2.57	360	988.83	15.8	16.8	1
10/10/05 20:00	130	0	13.9	12.1	10.6	81	0.00	0	989.50	15.6	16.4	0.8
10/10/05 21:00	134	0.44704	13.9	12.1	10.6	81	1.54	70	989.50	14.3	15.4	1.1
10/10/05 22:00	217	0	13.9	11.8	10	78	0.00	0	989.16	13.5	14.7	1.2
10/10/05 23:00	197	0	12.8	11.6	10.6	87	0.00	0	989.50	12.1	13.9	1.8
10/11/05 0:00	133	0	13.3	11.8	10.6	84	0.00	0	989.50	13.2	14.5	1.3
10/11/05 1:00	185	0.44704	12.8	11.9	11.1	90	1.54	310	989.84	13.7	14.9	1.2
10/11/05 2:00	166	0	13.3	12.4	11.7	90	0.00	0	989.84	12.8	13.9	1.1
10/11/05 3:00	130	0.44704	13.3	12.1	11.1	87	0.00	0	989.50	14.3	15.1	0.8
10/11/05 4:00	155	0	13.3	12.1	11.1	87	1.54	110	989.50	13	13.6	0.7
10/11/05 5:00	194	0.44704	13.9	12.7	11.7	87	0.00	0	990.52	12.9	13.6	0.7
10/11/05 6:00	140	0.89408	13.3	12.4	11.7	90	0.00	0	990.18	12.2	12.6	0.4
10/11/05 7:00	103	0.89408	15	13.2	11.7	81	0.00	0	990.52	12.2	12.4	0.3
10/11/05 8:00	131	0.89408	17.2	14.4	12.2	73	3.60	170	990.52	14.5	14	-0.6
10/11/05 9:00	151	0.89408	18.9	15.1	12.2	65	4.63	190	990.52	17.3	16.5	-0.8
10/11/05 10:00	198	1.34112	20.6	16	12.8	61	4.12	190	990.18	18.8	18	-0.8
10/11/05 11:00	191	1.34112	21.7	16.5	12.8	63	4.63	180	989.84	18.9	18.8	-0.1
10/11/05 12:00	199	1.34112	22.2	16.9	13.3	57	4.63	180	989.16	19.8	19.5	-0.3
10/11/05 13:00	199	0.89408	21.7	16.7	13.3	59	3.09	210	988.49	20.3	20	-0.4
10/11/05 14:00	168	1.34112	21.7	16.7	13.3	59	3.09	180	988.15	20.1	20	-0.1
10/11/05 15:00	186	0.89408	21.7	16.7	13.3	59	2.57	200	988.15	20.2	20	-0.2
10/11/05 16:00	172	0.89408	21.7	17	13.9	61	2.57	210	988.15	20.2	20.2	0
10/11/05 17:00	168	0.89408	20.6	16.6	13.9	66	2.06	180	988.49	19.3	19.9	0.5
10/11/05 18:00	174	0	16.7	15.4	14.4	86	1.54	150	988.49	16.5	19	2.5
10/11/05 19:00	189	0	18.3	15.7	13.9	76	1.54	120	989.16	16.2	19.2	3
10/11/05 20:00	224	0	16.1	14.5	13.3	84	1.54	120	989.50	15.8	18.6	2.8
10/11/05 21:00	207	0	16.1	14.5	13.3	84	0.00	0	989.50	16.3	18.1	1.9
10/11/05 22:00	228	0	16.1	14.8	13.9	87	2.06	180	989.50	15.4	17.3	2
10/11/05 23:00	241	0	14.4	13.5	12.8	90	1.54	130	989.50	15.8	17.3	1.6
10/12/05 0:00	148	0	14.4	13.5	12.8	90	0.00	0	989.50	15.3	16.6	1.4
10/12/05 1:00	159	0	15	14	13.3	90	0.00	0	989.50	15.1	16.5	1.4
10/12/05 2:00	172	0	13.3	12.7	12.2	93	0.00	0	989.16	14.7	16.2	1.5
10/12/05 3:00	140	0	13.3	12.7	12.2	93	0.00	0	989.50	14.2	15.7	1.5
10/12/05 4:00	141	0	12.8	11.9	11.1	90	0.00	0	990.18	14	15.2	1.2
10/12/05 5:00	131	0	12.2	11.9	11.7	97	2.06	140	990.52	13.5	14.6	1.1
10/12/05 6:00	199	0	13.3	12.7	12.2	93	1.54	160	990.86	13.1	14.5	1.5
10/12/05 7:00	215	0	15.6	14.6	13.9	90	0.00	0	991.53	14.9	15	0.1
10/12/05 8:00	208	0.44704	18.3	16.3	15	81	0.00	0	991.87	16.9	16.6	-0.3
10/12/05 9:00	231	0.89408	20.6	16.9	14.4	68	2.06	0	992.21	19.2	18.5	-0.7
10/12/05 10:00	227	0.89408	22.8	17.4	13.9	57	4.12	260	991.87	21.5	20.6	-1
10/12/05 11:00	260	1.78816	23.3	17.9	14.4	57	1.54	0				

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
10/8/05 12:00	48.3	1.4	2	0.6	4.9	0.7	77.3	27.1	762.3	2.74	0	982.77
10/8/05 13:00	43.1	1.4	1.9	0.6	4.1	0.6	103.9	30	708.7	2.55	0	981.73
10/8/05 14:00	39.8	1.3	1.9	0.6	4	0.7	62.4	21.4	599.2	2.16	0	980.93
10/8/05 15:00	36.8	1.2	1.8	0.6	4.1	0.6	62.8	20.6	441.4	1.59	0	980.48
10/8/05 16:00	37.9	0.6	1.4	0.7	2.8	0.3	83.3	16.6	252.2	0.91	0	980.14
10/8/05 17:00	48.3	0	0.7	0.7	1.6	0.2	62.6	10.2	62.8	0.23	0	980.05
10/8/05 18:00	69.2	0.2	0.8	0.7	1.9	0.2	24.4	5	0.4	0	0	980.13
10/8/05 19:00	57.3	0.8	1.7	0.9	3.1	0.2	30.3	6.8	0	0	0	980.41
10/8/05 20:00	61.2	1.1	1.9	0.9	3.6	0.3	35.1	8.7	0	0	0	980.55
10/8/05 21:00	65.3	1.2	2.1	0.9	3.4	0.4	47.9	10.2	0	0	0	980.33
10/8/05 22:00	69.9	1	1.9	0.9	3	0.3	51.8	8	0	0	0	979.99
10/8/05 23:00	75.4	0.7	1.7	1	2.8	0.2	56.2	7.6	0	0	0	979.66
10/9/05 0:00	78.8	1.1	2.1	1	3.1	0.2	52.8	5.9	0	0	0	979.34
10/9/05 1:00	81.2	1.2	2.2	1	3.3	0.3	59.8	6.7	0	0	0	979.49
10/9/05 2:00	85.8	0.7	1.7	1	3.1	0.2	59.2	6.1	0	0	0	979.61
10/9/05 3:00	85.4	0.8	1.5	0.7	2.9	0.3	60.9	10.6	0	0	0	979.64
10/9/05 4:00	83.7	0.4	1.4	1	3.8	0.3	85.3	14	0	0	0	979.58
10/9/05 5:00	87.2	0.2	1.3	1.1	2.4	0.2	95.3	8.8	0	0	0	979.54
10/9/05 6:00	90.5	0.1	0.8	0.7	2.4	0.3	141.1	8.5	5.2	0.02	0	979.44
10/9/05 7:00	83.3	0.6	1.4	0.8	3.6	0.4	148.3	15.5	163.5	0.59	0	979.49
10/9/05 8:00	69.8	1.5	2.1	0.6	4.1	0.5	132.3	16.9	361.4	1.3	0	979.91
10/9/05 9:00	59.6	1.5	2	0.5	4.6	0.6	149.3	18.9	526.5	1.9	0	980.2
10/9/05 10:00	60.1	1.8	2.3	0.6	4.9	0.6	132.9	19.7	659.6	2.37	0	980.24
10/9/05 11:00	52.1	1.9	2.6	0.6	4.9	0.7	141.3	22	715.5	2.58	0	979.64
10/9/05 12:00	47.8	2.1	2.9	0.8	5.9	0.9	134.9	20.1	739.8	2.66	0	978.61
10/9/05 13:00	44.1	2.1	3	0.9	5.9	0.8	136.2	19.9	688.3	2.48	0	977.88
10/9/05 14:00	41.1	2.3	3.1	0.9	5.7	0.8	133.4	17.7	581.3	2.09	0	977.45
10/9/05 15:00	40.3	2.2	3.1	0.9	5.9	0.8	134.7	15.9	426.7	1.54	0	977.13
10/9/05 16:00	43.3	1.4	2.3	0.9	5	0.5	149.8	13.9	199	0.72	0	977.23
10/9/05 17:00	49.8	0.3	1.6	1.3	2.6	0.2	132.1	8.2	67.5	0.24	0	977.37
10/9/05 18:00	58.4	0	1.4	1.4	2.2	0.1	143.2	5.4	0.2	0	0	977.71
10/9/05 19:00	60.3	0	1.3	1.3	1.9	0.1	130.8	4.8	0	0	0	978.28
10/9/05 20:00	69.4	0.6	1.6	1	2.5	0.2	81	4.4	0	0	0	978.75
10/9/05 21:00	66.6	0.9	1.9	1	2.9	0.2	75.9	5.5	0	0	0	979.13
10/9/05 22:00	67.7	1.4	2.3	1	3.8	0.4	71.9	8	0	0	0	979.04
10/9/05 23:00	72.3	1.1	2.2	1.1	4	0.4	81.3	9	0	0	0	979.3
10/10/05 0:00	76.3	1	2.3	1.2	3.9	0.4	97.8	8.3	0	0	0	979.77
10/10/05 1:00	77.4	0.5	2	1.5	3.2	0.3	107.4	7.7	0	0	0	980.44
10/10/05 2:00	78.8	0.4	1.6	1.2	3.6	0.3	96.4	8.6	0	0	0	980.42
10/10/05 3:00	86.6	0.9	2.1	1.2	2.9	0.2	76.2	6.6	0	0	0	980.38
10/10/05 4:00	87.2	0.5	1.9	1.4	2.9	0.2	83.3	6.3	0	0	0	980.46
10/10/05 5:00	88.4	0.9	2	1.1	3.3	0.2	76	6.6	0	0	0	980.74
10/10/05 6:00	89.6	1.2	2.2	1	3.3	0.3	67.7	7.5	9.1	0.03	0	980.94
10/10/05 7:00	86.7	1.1	1.8	0.7	3.5	0.4	75.2	10.4	91.3	0.33	0	981.62
10/10/05 8:00	85.5	1.5	2.2	0.7	3.5	0.5	76.8	12	181.3	0.65	0	981.91
10/10/05 9:00	78.8	1.4	2.1	0.7	4.2	0.6	88.8	15	284.8	1.03	0	982.21
10/10/05 10:00	74.3	1	1.6	0.6	2.7	0.4	86.3	13.5	249.8	0.9	0	982.62
10/10/05 11:00	73.3	0.5	1.2	0.7	2.7	0.3	76.3	14.9	198.2	0.71	0	982.8
10/10/05 12:00	72.7	0.7	1.3	0.6	2.7	0.4	37.3	17.1	228.1	0.82	0	982.4
10/10/05 13:00	71.7	0.8	1.3	0.6	3.2	0.4	120.3	17.8	246.3	0.89	0	981.91
10/10/05 14:00	65.4	2	2.8	0.8	4.9	0.6	34.8	15.6	379.4	1.37	0	981.32
10/10/05 15:00	57.8	2	2.8	0.8	5.1	0.6	41.8	17.1	415.3	1.5	0	981.16
10/10/05 16:00	58.5	1.4	2.1	0.7	4.2	0.6	46	15.4	224.7	0.81	0	981.09
10/10/05 17:00	65.8	0.6	1.6	0.9	3.1	0.3	21.7	10.1	47.7	0.17	0	981.31
10/10/05 18:00	70.8	1	2	0.9	3.7	0.4	16.4	10.2	0	0	0	981.53
10/10/05 19:00	69.2	1.2	2.1	0.9	3.7	0.4	20.9	12.3	0	0	0	981.97
10/10/05 20:00	64.6	1.1	1.9	0.7	3.6	0.5	37.6	14.2	0	0	0	982.56
10/10/05 21:00	68.7	0.9	1.7	0.8	3.1	0.4	37.1	11.6	0	0	0	982.62
10/10/05 22:00	72.7	0.8	1.8	1	3.7	0.3	52.7	9.7	0	0	0	982.49
10/10/05 23:00	81	0.3	1.7	1.4	2.6	0.2	98	5.8	0	0	0	982.59
10/11/05 0:00	77.9	0.4	1.8	1.4	3.2	0.3	118.2	8	0	0	0	982.61
10/11/05 1:00	78.9	0.1	1.1	1	2.1	0.2	225.4	8.4	0	0	0	982.96
10/11/05 2:00	86.3	0	0.9	0.9	1.7	0.2	183.3	8.5	0	0	0	983.01
10/11/05 3:00	79.4	0.1	1	0.9	1.8	0.2	113.8	10.6	0	0	0	982.58
10/11/05 4:00	86.3	0.6	1.1	0.5	3.4	0.4	111	16.3	0	0	0	982.58
10/11/05 5:00	88.8	0.1	0.6	0.5	1.8	0.2	101.2	13.5	0	0.01	0	983.25
10/11/05 6:00	92.3	0.6	1.5	0.9	3.8	0.3	78.8	11	7.5	0.03	0.04	983.33
10/11/05 7:00	94.6	0.5	1.2	0.8	2.6	0.2	63	8.5	53.8	0.19	0	983.57
10/11/05 8:00	89.9	1	1.7	0.7	3.4	0.4	105.4	13	306.4	1.1	0	983.48
10/11/05 9:00	78.8	1.7	2.4	0.7	4.8	0.6	149.4	15.1	431	1.55	0	983.56
10/11/05 10:00	73.6	1.5	2	0.5	4.2	0.5	154.7	18.5	466.1	1.68	0	983.42
10/11/05 11:00	67.8	1.6	2.3	0.7	4.9	0.5	187	15.6	187	0.22	39.38	983.69
10/11/05 12:00	67.4	1	1.6	0.6	3.2	0.5	175.1	15.6	227.1	0.82	0	982.04
10/11/05 13:00	69.3	0.8	1.5	0.7	3.2	0.3	167.5	13.4	120	0.43	0	981.52
10/11/05 14:00	68.5	1.1	1.7	0.6	3.1	0.4	171.7	12.7	174.8	0.63	0	981.43
10/11/05 15:00	69.4	0.3	1.1	0.7	2.1	0.2	145.7	10.3	132.8	0.48	0	981.38
10/11/05 16:00	73.2	0.2	1.2	0.9	2.4	0.3	163.2	10.4	54.3	0.2	0	981.69
10/11/05 17:00	83.8	0	1.2	1.2	1.8	0.1	145.1	5.2	0.2	0	0	981.8
10/11/05 18:00	87.5	0	1.4	1.4	2.2	0.2	152.9	5.4	0	0	0	982.24
10/11/05 19:00	87.7	0	1.2	1.2	2.2	0.2	154.8	4.9	0	0	0	982.58
10/11/05 20:00	85.6	0.1	1.6	1.4	2.6	0.2	154.2	6.5	0	0	0	982.55
10/11/05 21:00	89.3	0	1.1	1.1	2.4	0.2	160.2	9.3	0	0	0	982.64
10/11/05 22:00	88.8	0.2	1.5	1.2	3.3	0.3	145.5	11.3	0	0	0	982.47
10/12/05 0:00	90	0.6	1.7	1	2.7	0.2	175.9	7.7	0	0	0	982.48
10/12/05 1:00	91.6	0.7	1.9	1.1	3.3	0.2	174.6	6.9	0	0	0	982.5
10/12/05 2:00	92.4	0.6	1.7	1.1	2.4	0.2	192.9	4.9	0	0	0	982.42
10/12/05 3:00	94.1	0.6	1.9	1.3	2.8	0.2	199.7	4.4	0	0	0	982.62
10/12/05 4:00	95	1	2.1	1.1	2.9	0.2	207.3	5.1	0	0	0	983.05
10/12/05 5:00	95.6	0.8	1.7	0.9	2.3	0.1	217.8	3.9	0	0	0	983.33
10/12/05 6:00	96.2	0	1.2	1.2	1.6	0.1	186.7	4.1	11.2	0.04	0	983.73
10/12/05 7:00	96.2	0.6	1.3	0.8	3.3	0.2	214.4	6.4	150.3	0.54	0	984.25
10/12/05 8:00	89.5	1.7	2.4	0.7	4	0.5	226.2	11.8	331.2	1.19	0	984.7
10/12/05 9:00	75.9	1.2	1.7	0.5	3.6	0.5	226	20.1	501.3	1.8	0	985.06
10/12/05 10:00	60.5	1.8	2.4	0.6	6.5	0.7	213.6	16.3	629.3	2.27	0	985.13
10/12/05 11:00	51.2	2.3	3	0.7	5.6	0.8	225.2	18.3	703.2	2.53	0	985.01
10/12/05 12:00	48.6	2.5	3.4	0.8	6.2	0.9	228.3	20	714.2	2.57	0	984.66
10/12/05 13:00	45.6	2.5	3.4	0.8	7	0.9	217.3	17	662.3	2.38	0	983.99
10/12/05 14:00	44.9	1.9	2.6	0.7	5.6	0.8	234.1	18.3	551.7	1.99	0	983.81
10/12/05 15:00	42.8	1.9	2.5	0.7	4.9	0.7	234	17.3	401.2	1.44	0	983.77
10/12/05 16:00	44.3	1.4										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
10/13/05 3:00	0.03768	18.8	0.3	1.8	0	4.9	0	0.011	0.007	0.018	17.4	12.22	94	
10/13/05 4:00	0.03171	17.9	1.2	0.4	270	1.8	0	0.015	0.006	0.02	14.7	11.67	95	
10/13/05 5:00	0.03845	17.7	0.5	1.8	112.5	4.9	0	0.018	0.005	0.023	16.1	11.11	95	
10/13/05 6:00	0.03208	17.7	0.9	1.8	112.5	4	0	0.056	0.007	0.063	17.6	10.56	95	
10/13/05 7:00	0.02958	17.9	0.6	1.3	112.5	7.4	0	0.066	0.011	0.077	18.6	12.78	93	
10/13/05 8:00	0.02899	18.7	2.3	0.4	67.5	2.2	0.004	0.049	0.02	0.069	22.1	16.67	77	
10/13/05 9:00	0.03372	21.3	6.2	0.9	225	2.7	0.013	0.021	0.028	0.049	24.4	20.56	63	
10/13/05 10:00	0.02222	27.4	7.2	0.9	202.5	2.7	0.027	0.013	0.026	0.039	30.4	22.78	49	
10/13/05 11:00	0.01777	36.7	7.6	0.4	180	2.2	0.045	0.002	0.01	0.012	21	23.89	40	
10/13/05 12:00	0.02997	39.4	2.2	0.4	202.5	2.7	0.052	0	0.005	0.006	14.5	25.00	37	
10/13/05 13:00	0.03705	37.8	3.2	0.9	292.5	3.1	0.056	0	0.004	0.004	11	25.00	37	
10/13/05 14:00	0.04635	34.9	4.4	1.3	292.5	4	0.057	0	0.003	0.003	11.4	26.11	36	
10/13/05 15:00	0.04871	34	4.4	1.3	315	4.5	0.055	0	0.003	0.003	15.8	25.56	34	
10/13/05 16:00	0.05044	30.9	6.1	1.3	292.5	4.9	0.053	0	0.004	0.003	15	25.00	39	
10/13/05 17:00	0.04975	26.3	3.9	1.3	292.5	4.9	0.036	0.001	0.014	0.014	15.2	22.78	54	
10/13/05 18:00	0.04358	23.2	2.5	0.4	22.5	3.1	0.001	0.03	0.036	0.066	19.6	18.33	77	
10/13/05 19:00	0.04655	20.9	1.4	0	90	0.9	0	0.045	0.029	0.074	22	16.67	86	
10/13/05 20:00	0.04644	20.2	0.3	0	90	2.7	0	0.048	0.022	0.069	19.7	15.00	90	
10/13/05 21:00	0.04748	20.2	0.5	3.1	292.5	6.3	0	0.049	0.021	0.07	20.7	13.89	92	
10/13/05 22:00	0.04874	20.2	0.2	3.6	292.5	5.8	0	0.063	0.017	0.08	20.6	12.78	93	
10/13/05 23:00	0.04744	19.9	0.4	2.7	292.5	5.4	0	0.047	0.015	0.062	19.9	12.22	94	
10/14/05 0:00	0.04792	19.9	0.3	3.1	292.5	4.9	0.029	0.032	0.013	0.045	17.6	11.67	95	
10/14/05 1:00	0.04295	19.5	0.9	2.2	270	5.4	0	0.033	0.013	0.046	19.7	11.11	95	
10/14/05 2:00	0.04145	19.3	1	1.8	270	4.9	0	0.018	0.012	0.03	17.2	10.56	95	
10/14/05 3:00	0.03301	19.7	0.3	0.4	270	2.2	0	0.015	0.009	0.024	18.2	10.00	95	
10/14/05 4:00	0.03063	19.3	0.5	0.4	315	2.7	0	0.012	0.009	0.021	17	10.00	96	
10/14/05 5:00	0.04492	19.3	0.4	2.2	315	3.6	0	0.029	0.008	0.037	15.9	9.44	96	
10/14/05 6:00	0.04568	18.9	0.4	2.2	292.5	3.6	0	0.058	0.008	0.066	19.9	9.44	96	
10/14/05 7:00	0.04461	18.3	1	1.8	315	4.9	0.001	0.073	0.014	0.087	22.8	12.22	96	
10/14/05 8:00	0.04134	18.6	1.4	0.4	202.5	2.7	0.006	0.033	0.024	0.057	25.9	17.22	80	
10/14/05 9:00	0.04161	20.9	7.5	0.4	202.5	1.3	0.023	0.007	0.015	0.022	21.2	21.67	59	
10/14/05 10:00	0.03718	30.9	6.8	0.4	247.5	3.6	0.042	0.001	0.005	0.006	13.9	24.44	47	
10/14/05 11:00	0.0279	35.9	4	1.3	0	4	0.048	0.001	0.006	0.006	16.8	25.56	42	
10/14/05 12:00	0.03805	38.4	2.8	0.9	0	4	0.055	0	0.004	0.004	17	26.67	39	
10/14/05 13:00	0.04598	38.1	4.8	1.3	0	4.5	0.056	0	0.003	0.003	15.6	27.78	36	
10/14/05 14:00	0.05045	36.6	4.6	1.3	0	5.8	0.057	0	0.003	0.002	11	27.78	33	
10/14/05 15:00	0.05419	35.6	3	0.9	180	4	0.058	0	0.003	0.003	12.7	28.33	33	
10/14/05 16:00	0.05637	32.6	6.4	1.3	180	4.5	0.058	0	0.004	0.004	14.3	28.33	33	
10/14/05 17:00	0.05732	27.6	3.5	3	180	4.5	0.049	0.008	0.029	0.037	17.6	25.00	49	
10/14/05 18:00	0.05719	24.8	2	1.8	180	4	0.004	0.012	0.043	0.056	24	19.44	72	
10/14/05 19:00	0.04608	23.7	0.4	3.6	180	4.9	0.001	0.028	0.042	0.07	29.7	17.22	83	
10/14/05 20:00	0.03208	23.6	0.1	4.5	180	5.4	0	0.062	0.032	0.095	26.4	16.11	88	
10/14/05 21:00	0.04371	23.6	0.3	3.1	180	6.3	0	0.078	0.025	0.103	23.1	15.00	91	
10/14/05 22:00	0.0489	23.2	1.4	1.8	0	5.4	0	0.077	0.025	0.102	23	14.44	92	
10/14/05 23:00	0.03488	21.9	0.6	2.7	0	5.4	0	0.073	0.021	0.094	22.9	13.89	93	
10/15/05 0:00	0.03721	21.1	1.2	1.3	0	3.6	0	0.065	0.018	0.083	22.6	13.33	93	
10/15/05 1:00	0.03374	20.4	0.3	1.3	22.5	5.4	0	0.061	0.019	0.08	22.2	12.78	93	
10/15/05 2:00	0.03712	20.3	0.3	0.9	22.5	2.7	0	0.067	0.014	0.08	22	12.22	94	
10/15/05 3:00	0.03499	20.3	0.4	0.9	22.5	2.7	0	0.021	0.021	0.042	23.4	12.22	94	
10/15/05 4:00	0.03544	20.1	0.5	0.9	22.5	2.7	0	0.023	0.015	0.038	23.3	11.67	94	
10/15/05 5:00	0.03649	19.7	0.4	0.9	112.5	5.8	0	0.022	0.013	0.034	21.6	11.67	94	
10/15/05 6:00	0.03434	19.1	0.8	0.9	315	3.6	0	0.055	0.007	0.062	21.3	11.11	94	
10/15/05 7:00	0.02671	19.1	1.2	0.9	315	3.6	0.001	0.051	0.011	0.062	28.3	13.33	91	
10/15/05 8:00	0.02767	20.2	0.9	2.7	270	4.5	0.005	0.048	0.029	0.077	29.9	18.89	72	
10/15/05 9:00	0.02796	22	6.7	1.3	292.5	3.6	0.019	0.019	0.032	0.052	33.2	22.22	59	
10/15/05 10:00	0.01816	31.9	7.8	0.9	292.5	3.6	0.033	0.008	0.025	0.034	28.6	24.44	53	
10/15/05 11:00	0.01948	38.8	6.6	0.4	337.5	1.8	0.05	0.001	0.01	0.011	21.2	26.67	47	
10/15/05 12:00	0.03177	42.6	2.1	0.4	202.5	2.2	0.055	0.002	0.012	0.013	22.4	28.33	41	
10/15/05 13:00	0.04872	42.7	4.3	0.9	202.5	3.1	0.059	0.001	0.011	0.012	23.2	28.89	34	
10/15/05 14:00	0.05958	38.9	7	1.3	202.5	4.9	0.063	0	0.005	0.005	19.4	29.44	31	
10/15/05 15:00	0.06309	33.6	3	2.2	202.5	5.8	0.059	0	0.005	0.005	12.4	29.44	31	
10/15/05 16:00	0.06117	31.8	4.4	1.3	180	5.4	0.054	0	0.006	0.006	14.7	28.33	33	
10/15/05 17:00	0.05785	28	2.7	1.8	202.5	4.5	0.042	0	0.015	0.015	19.4	25.56	44	
10/15/05 18:00	0.05974	25.3	2.9	0.9	180	3.1	0.006	0.038	0.041	0.079	20.4	20.00	70	
10/15/05 19:00	0.06322	23.6	1	0.4	180	2.2	0	0.065	0.035	0.101	21.7	17.78	81	
10/15/05 20:00	0.05591	23.6	1.3	1.3	202.5	2.7	0	0.042	0.03	0.072	25.7	17.78	84	
10/15/05 21:00	0.05129	23.8	0.7	2.2	202.5	4	0	0.052	0.026	0.078	25.2	17.22	86	
10/15/05 22:00	0.05243	23.5	0.9	1.3	180	3.6	0	0.053	0.021	0.075	23.7	17.22	86	
10/15/05 23:00	0.04394	22.7	1.2	0.9	0	2.7	0	0.05	0.021	0.071	24.9	16.67	86	
10/16/05 0:00	0.0289	21.8	0.8	2.2	0	6.3	0	0.043	0.018	0.061	22.5	15.56	91	
10/16/05 1:00	0.02922	21.1	0.5	1.8	0	4.9	0	0.049	0.013	0.062	24.3	15.00	93	
10/16/05 2:00	0.03368	21.1	0.2	0.4	0	2.7	0.03	0.043	0.012	0.055	24.5	15.00	93	
10/16/05 3:00	0.04062	21.2	0.3	0.4	0	2.2	0	0.055	0.009	0.063	22.8	15.00	93	
10/16/05 4:00	0.02954	21.2	0.1	0.9	0	2.7	0	0.061	0.007	0.067	24.8	15.00	94	
10/16/05 5:00	0.03058	21.2	0.6	1.3	202.5	3.6	0	0.055	0.007	0.062	24.5	15.00	94	
10/16/05 6:00	0.04314	20.7	0.5	2.2	202.5	4	0	0.06	0.007	0.066	22.3	13.89	95	
10/16/05 7:00	0.04468	20.7	0.3	3.6	202.5	4.9	0	0.068	0.008	0.077	25.9	15.56	94	
10/16/05 8:00	0.04585	20.8	0.4	4.5	202.5	6.3	0.013	0.018	0.025	0.043	29.4	20.56	67	
10/16/05 9:00	0.04593	21.9	6.5	2.2	0	5.4	0.03	0.006	0.021	0.027	21	23.33	50	
10/16/05 10:00	0.038	31.4	8.8	1.3	0	3.6	0.049	0.003	0.018	0.021	24.4	25.56	41	
10/16/05 11:00	0.04679	38.2	4.8	0.9	180	3.1	0.058	0.001	0.013	0.014	23.4	26.67	38	
10/16/05 12:00	0.05742	37.1	9.1	1.3	202.5	4.5	0.065	0.001	0.009	0.01	19.8	27.78	35	
10/16/05 13:00	0.06331	36.8	8.1	2.2	202.5	8.9	0.061	0	0.004	0.003	17.4	28.89	31	
10/16/05 14:00	0.06404	30.7	2.2	4.9	180	10.3	0.062	0	0.004	0.003	16.6	28.89	31	
10/16/05 15:00	0.06417	30.7	3.9	4	202.5	8.9	0.06	0	0.003	0.003	16.5	28.89	31	
10/16/05 16:00	0.0627	28.8	3.1	3.1	180	8	0.058	0	0.004	0.004	17.4	28.33	32	
10/16/														

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
10/13/05 3:00	174	0	13.9	12.7	11.7	87	0.00	0	992.55	10.8	14.7	3.9
10/13/05 4:00	202	0	13.3	12.4	11.7	90	0.00	0	993.23	10.3	13.5	3.2
10/13/05 5:00	172	0	12.8	12.2	11.7	93	0.00	0	993.57	10.6	14.3	3.7
10/13/05 6:00	96	0	11.1	10.5	10	93	1.54	360	993.57	10.8	14.2	3.4
10/13/05 7:00	218	0	14.4	13.2	11.2	87	0.00	0	993.90	14	14.9	0.9
10/13/05 8:00	134	0	16.7	13.9	11.7	73	0.00	0	994.24	17.8	17.5	-0.3
10/13/05 9:00	135	0.44704	19.4	15.8	13.3	68	0.00	0	994.58	20	19.1	-0.9
10/13/05 10:00	209	0.44704	23.3	16	10.6	45	1.54	0	994.24	22.3	21.3	-1
10/13/05 11:00	219	0.89408	23.9	15.7	9.4	40	0.00	0	993.90	23.5	22.4	-1.1
10/13/05 12:00	201	0.89408	25	16.1	9.4	37	1.54	300	992.89	23.8	23	-0.8
10/13/05 13:00	212	0.89408	25.6	16.3	9.4	36	1.54	0	992.55	24.8	23.7	-1.1
10/13/05 14:00	250	0.89408	25.6	16.1	8.9	35	3.09	290	992.21	25.2	24.4	-0.8
10/13/05 15:00	281	1.34112	25	16.1	9.4	37	2.57	290	992.21	24.9	24.5	-0.4
10/13/05 16:00	279	1.34112	23.9	15.9	10	42	3.09	290	992.21	23.7	23.8	0.1
10/13/05 17:00	246	0.44704	22.8	16	11.1	48	1.54	270	992.21	21.7	22.4	0.7
10/13/05 18:00	209	0	21.7	15.6	11.1	51	1.54	250	992.55	17.5	20.7	3.1
10/13/05 19:00	208	0	19.4	15.3	12.2	63	2.57	280	992.89	16.1	20.1	4
10/13/05 20:00	206	0.44704	17.2	14.4	12.2	73	0.00	0	993.57	15	19.4	4.3
10/13/05 21:00	201	0	14.4	12.9	11.7	84	0.00	0	993.90	14.6	19.2	4.5
10/13/05 22:00	149	0	15	13.2	11.7	81	0.00	0	993.90	15.3	18.3	2.9
10/13/05 23:00	209	0	13.3	12.1	11.1	87	1.54	200	993.90	15.2	17.5	2.3
10/14/05 0:00	226	0	14.4	12.6	11.1	81	1.54	200	993.90	15.2	17.3	2.1
10/14/05 1:00	173	0	13.3	12.1	11.1	87	0.00	0	994.24	14.3	17.2	2.9
10/14/05 2:00	183	0	12.8	11.6	10.6	87	0.00	0	993.90	12.7	16.1	3.5
10/14/05 3:00	215	0	10.6	10	9.4	92	0.00	0	994.24	11.9	15.3	3.4
10/14/05 4:00	181	0	11.7	10.8	10	89	0.00	0	994.24	11.7	15.8	4.1
10/14/05 5:00	254	0	11.1	10.2	9.4	89	0.00	0	995.26	11.7	15.9	4.2
10/14/05 6:00	193	0	10	9.1	8.3	89	0.00	0	995.94	11.9	14.4	2.5
10/14/05 7:00	222	0	14.4	13.2	12.2	87	0.00	0	996.61	14.6	14.8	0.2
10/14/05 8:00	193	0.44704	18.9	15.1	12.2	65	0.00	0	997.29	17.6	17.1	-0.5
10/14/05 9:00	217	0.44704	21.7	15.9	11.7	53	0.00	0	997.29	21.4	20.6	-0.8
10/14/05 10:00	230	0.89408	23.9	16.4	11.1	45	3.60	240	996.95	23.8	22.7	-1.1
10/14/05 11:00	232	1.34112	25.6	17.1	11.1	40	3.09	240	996.28	25.2	24.1	-1.1
10/14/05 12:00	231	1.34112	26.1	17.2	11.1	39	3.60	240	995.26	26.3	25.2	-1.2
10/14/05 13:00	218	0.89408	27.2	17.6	11.1	37	4.12	220	994.58	26.9	25.8	-1.1
10/14/05 14:00	250	0.89408	27.2	17.4	10.6	35	3.60	200	993.90	27.1	26.3	-0.8
10/14/05 15:00	231	0.89408	27.8	17.6	10.6	34	2.57	210	993.57	27.1	26.6	-0.5
10/14/05 16:00	241	0.44704	27.2	17.4	10.6	35	1.54	260	993.57	26.1	26.2	0.1
10/14/05 17:00	221	0	24.4	16.6	11.1	43	2.57	190	993.23	22.8	24.3	1.5
10/14/05 18:00	218	0	21.7	16.2	12.2	55	2.06	170	993.57	20.6	23	2.4
10/14/05 19:00	228	0	20.6	15.5	11.7	57	2.57	180	993.90	20.3	22.4	2.1
10/14/05 20:00	228	0	19.4	15	11.7	61	2.57	180	993.90	19.8	21.6	1.8
10/14/05 21:00	218	0	18.3	14.6	11.7	66	2.57	180	994.24	19.1	21.1	1.9
10/14/05 22:00	264	0	18.3	14.6	11.7	66	2.57	190	994.24	18.4	20.7	2.3
10/14/05 23:00	179	0	17.8	14.4	11.7	68	1.54	190	993.90	18.1	20.1	2
10/15/05 0:00	184	0	16.1	13.3	11.1	72	0.00	0	993.57	16.9	19.2	2.3
10/15/05 1:00	75	0	15	12.9	11.1	78	0.00	0	993.23	17	18.8	1.8
10/15/05 2:00	132	0	15.6	13.1	11.1	75	1.54	160	993.23	17	18.5	1.5
10/15/05 3:00	152	0	14.4	12.6	11.1	81	0.00	0	993.23	16.3	17.9	1.6
10/15/05 4:00	165	0	15	12.9	11.1	78	2.57	160	993.57	15.7	17.4	1.6
10/15/05 5:00	49	0	13.3	11.8	10.6	84	0.00	0	993.90	14.8	16.8	2.1
10/15/05 6:00	117	0	12.2	11.3	10.6	90	2.06	130	994.24	13.6	15.9	2.3
10/15/05 7:00	193	0	16.7	13.9	11.7	73	1.54	160	994.24	16.5	16.9	0.4
10/15/05 8:00	182	0.44704	20	16.1	13.3	66	2.06	170	994.24	19.3	18.8	-0.5
10/15/05 9:00	201	0.89408	22.8	17.1	13.3	55	2.57	170	994.24	21.7	20.9	-0.8
10/15/05 10:00	203	0.89408	25	17.9	13.3	48	0.00	0	994.24	23.9	22.8	-1.1
10/15/05 11:00	214	0.89408	27.8	19.2	13.9	43	2.06	0	992.89	26.1	25.1	-1
10/15/05 12:00	205	0.89408	28.3	18.8	12.8	38	2.57	170	991.87	27.6	26.5	-1.1
10/15/05 13:00	205	0.89408	28.3	17.5	10	32	2.06	0	991.20	28.3	27.3	-1.1
10/15/05 14:00	203	1.34112	28.9	17.4	9.4	30	1.54	260	990.86	28.5	27.7	-0.8
10/15/05 15:00	201	0.89408	28.9	17.7	10	31	3.09	210	990.52	28.1	27.7	-0.5
10/15/05 16:00	195	0.89408	27.8	17.6	10.6	34	2.06	220	990.18	27	27.1	0.1
10/15/05 17:00	219	0	25	17.1	11.7	44	0.00	0	990.18	23.7	25.4	1.7
10/15/05 18:00	208	0	21.7	16.7	13.3	59	0.00	0	990.18	21.6	24.5	2.9
10/15/05 19:00	216	0	20	16.4	13.9	68	0.00	0	990.52	21.2	23.9	2.8
10/15/05 20:00	198	0	20.6	16.6	13.9	66	0.00	0	990.86	20.9	23.6	2.7
10/15/05 21:00	142	0	19.4	16.8	15	76	0.00	0	990.86	20	23	3
10/15/05 22:00	141	0	19.4	16.8	15	76	0.00	0	991.20	21	23	2.1
10/15/05 23:00	149	0	19.4	16.4	14.4	73	0.00	0	991.20	19.3	22	2.7
10/16/05 0:00	250	0	16.1	14.8	13.9	87	0.00	0	991.20	19	20.9	1.9
10/16/05 1:00	158	0	16.1	15.1	14.4	90	0.00	0	991.20	16.7	21	2.4
10/16/05 2:00	214	0	16.7	15.4	14.4	95	0.00	0	991.20	17.4	20.8	3.4
10/16/05 3:00	241	0	16.1	15.1	14.4	90	0.00	0	991.53	17.8	20.6	2.9
10/16/05 4:00	168	0	16.1	14.5	13.3	84	2.06	140	991.87	17.7	19.9	2.2
10/16/05 5:00	250	0	16.7	14.7	13.3	81	0.00	0	992.21	16.7	17.6	0.9
10/16/05 6:00	181	0	16.7	14.5	12.8	78	1.54	170	992.55	16.3	17.4	1.1
10/16/05 7:00	201	0	18.3	15.1	12.8	70	2.06	160	992.89	18.4	18.9	0.5
10/16/05 8:00	201	0.44704	21.7	16.2	12.2	55	2.06	170	993.23	20.8	20.5	-0.3
10/16/05 9:00	194	0.44704	23.3	16.5	11.7	48	2.06	170	993.23	22.3	21.7	-0.6
10/16/05 10:00	226	0.89408	25.6	17.3	11.7	42	3.60	180	993.23	24.4	23.4	-0.9
10/16/05 11:00	208	1.34112	26.7	17.4	11.1	38	3.60	180	992.55	26.2	25.1	-1.1
10/16/05 12:00	189	1.34112	27.8	17.6	10.6	34	3.09	180	991.87	27.3	26.3	-1
10/16/05 13:00	202	1.78816	28.3	17.8	10.6	33	4.12	220	990.86	27.7	26.7	-1
10/16/05 14:00	199	1.78816	28.9	17.7	10	31	3.09	0	990.18	27.7	26.8	-0.9
10/16/05 15:00	206	1.34112	28.3	17.2	9.4	31	3.60	190	989.50	27.4	27	-0.4
10/16/05 16:00	211	0.89408	27.8	17.6	10.6	34	3.60	210	989.16	26.4	26.5	0.1
10/16/05 17:00	234	0.44704	26.1	17	10.6	38	3.09	210	989.50	22.9	24.3	1.5
10/16/05 18:00	233	0	23.9	16.2	10.6	43	2.06	210	989.50	20.8	22.7	1.9
10/16/05 19:00	211	0.44704	21.7	15.6	11.1	51	2.57	190	989.84	20.6	22.4	1.8
10/16/05 20:00	103	0	20.6	15.5	11.7	57	3.60	130	990.18	20.8	22	1.2
10/16/05 21:00	122	0.44704	21.7	15.6	11.1	51	2.57	160	990.18	20.3	21.2	0.8
10/16/05 22:00	150	0	18.3	14.6	11.7	66	2.57	150	990.18	18.8	20.1	1.3
10/16/05 23:00	208	0.44704	19.4	15	11.7	61	3.60	180	989.16	18.8	19.8	1
10/17/05 0:00	210	0	19.4	14.7	11.1	59	4.63	170	988.83	17.7	18.9	1.2
10/17/05 1:00	187	0.44704	20	14.9	11.1	57	4.12	180	988.83	17.5	18.6	1.1
10/17/05 2:00												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
10/13/05 3:00	89.5	0.1	0.6	0.5	1.4	0.2	298	8.2	0	0	0	986
10/13/05 4:00	93.3	0	0.5	0.5	1	0.1	273.8	5.9	0	0	0	986.15
10/13/05 5:00	94.5	0	0.3	0.3	0.8	0.1	189.3	7.1	0	0	0	986.48
10/13/05 6:00	94.3	0	0.5	0.5	1	0.1	174.2	1.4	17.9	0.06	0	986.66
10/13/05 7:00	91.3	0	0.7	0.6	1.3	0.1	209.2	4	148.4	0.53	0	986.83
10/13/05 8:00	75.9	0.6	1.2	0.6	2.9	0.3	182.5	10.4	302.5	1.09	0	987.21
10/13/05 9:00	64.7	1.5	1.9	0.5	3.3	0.4	204.8	12.5	496.2	1.79	0	987.73
10/13/05 10:00	53.1	1.2	1.8	0.5	3.3	0.5	204.2	19.4	625.6	2.25	0	987.67
10/13/05 11:00	46.5	1.5	2.1	0.6	4.2	0.6	190.4	17.5	701.4	2.53	0	987.58
10/13/05 12:00	44.1	1.6	2.2	0.6	4.2	0.5	187.1	15.4	534.7	1.92	0	986.77
10/13/05 13:00	42.8	1.8	2.4	0.6	4.3	0.6	178.3	18.7	661.5	2.38	0	985.97
10/13/05 14:00	40.4	1.6	2.2	0.6	5.4	0.7	201.9	19.6	538	1.94	0	985.65
10/13/05 15:00	39.6	1.9	2.7	0.8	5.4	0.6	209.6	13.9	363.3	1.31	0	985.29
10/13/05 16:00	47	0.9	1.7	0.8	3.5	0.3	206.4	10.3	169.9	0.61	0	985.19
10/13/05 17:00	57.3	0.1	1	0.9	1.7	0.1	192.8	7.6	61.8	0.22	0	985.21
10/13/05 18:00	72.3	0	1.1	1.1	1.7	0.1	212.9	3.6	0.1	0	0	985.71
10/13/05 19:00	80.2	0	1	1	2	0.2	238.1	8.4	-0.2	0	0	986.17
10/13/05 20:00	80.8	0	1.2	1.2	1.6	0.1	231.7	3.9	-0.1	0	0	986.73
10/13/05 21:00	81.5	0	1.2	1.1	1.6	0.1	235.5	4.9	-0.1	0	0	987.05
10/13/05 22:00	78.9	0.1	1.3	1.2	2.3	0.2	254	9	0	0	0	987.19
10/13/05 23:00	76.4	0.2	1.4	1.2	2.4	0.3	262.7	8.4	-0.1	0	0	987.17
10/14/05 0:00	74.3	0.8	2	1.3	2.8	0.3	275.4	7	0	0	0	987.09
10/14/05 1:00	75	0.3	1.6	1.3	2.7	0.2	267.9	7.6	-0.1	0	0	987.31
10/14/05 2:00	82.8	0.2	1.2	1	2.3	0.2	252.3	8.3	-0.1	0	0	987.23
10/14/05 3:00	87.7	0.1	1	1	1.7	0.1	227.5	3.5	-0.4	0	0	987.22
10/14/05 4:00	91.2	0	0.9	0.9	1.5	0.2	239.2	6	-0.8	0	0	987.41
10/14/05 5:00	90.7	0.1	1.1	1	2.1	0.1	233.5	4.2	-0.6	0	0	988
10/14/05 6:00	90.3	0.4	1.6	1.2	2.3	0.2	217.3	4.2	11.5	0.04	0	988.79
10/14/05 7:00	89.5	1.2	1.8	0.7	2.7	0.2	213	6.9	156.7	0.56	0	989.44
10/14/05 8:00	79.8	1.5	1.9	0.4	3.6	0.3	212.8	9.4	338.8	1.22	0	990.04
10/14/05 9:00	61.2	2.2	2.9	0.7	5.5	0.6	210.3	10.8	506.5	1.82	0	990.31
10/14/05 10:00	50.8	2.2	3	0.8	5.3	0.6	194	12.2	633.5	2.28	0	990.07
10/14/05 11:00	42.9	2.3	3.2	0.9	5.8	0.7	187.3	13.8	703.3	2.53	0	989.7
10/14/05 12:00	38.8	2.4	3.2	0.8	5.7	0.8	179.9	14	710.8	2.56	0	988.92
10/14/05 13:00	36.8	2.7	3.5	0.8	5.7	0.7	176.7	11.8	658.3	2.37	0	988.18
10/14/05 14:00	35.3	2.5	3.1	0.6	5.1	0.7	185.2	12.1	547.7	1.97	0	987.63
10/14/05 15:00	34.3	2.2	2.9	0.7	5	0.5	179.9	11.8	392.8	1.41	0	987.23
10/14/05 16:00	39.2	1.5	2.1	0.6	3.7	0.3	168.3	9.3	208.6	0.75	0	986.98
10/14/05 17:00	52.1	0.1	1.4	1.3	2.9	0.2	158.2	7.2	38.8	0.14	0	986.83
10/14/05 18:00	57.3	0	1.5	1.5	2.5	0.3	148.3	9.4	0.1	0	0	986.9
10/14/05 19:00	58.3	0.7	1.9	1.2	3.7	0.3	164.3	10.2	0	0	0	987.09
10/14/05 20:00	57.7	0.8	1.8	1	2.8	0.2	177.1	6.7	0	0	0	987.22
10/14/05 21:00	57.5	0.9	1.9	1.1	3	0.2	183.6	6.7	0	0	0	987.37
10/14/05 22:00	58.9	0.2	1.8	1.5	2.6	0.2	188.3	6.1	-0.4	0	0	987.39
10/14/05 23:00	59	1	1.9	1	2.6	0.1	192.7	4.8	-0.3	0	0	987.27
10/15/05 0:00	64.2	1	2.1	1.2	2.7	0.2	202.4	4.7	-0.4	0	0	987.03
10/15/05 1:00	65.2	1.2	2.1	0.9	2.9	0.2	213.8	4.3	0	0	0	986.68
10/15/05 2:00	68.3	1.4	2.4	1	3.1	0.2	217.6	5.7	-0.3	0	0	986.39
10/15/05 3:00	72.7	1.2	2.2	0.9	3	0.2	209.9	5.5	-0.3	0	0	986.39
10/15/05 4:00	76.5	0.9	1.7	0.9	2.4	0.1	206.9	3.5	-0.8	0	0	986.61
10/15/05 5:00	80.8	0.2	1.3	1.1	1.8	0.1	216.4	3.9	-1	0	0	987.02
10/15/05 6:00	88.7	0	0.6	0.6	1.3	0.1	177.9	0.9	11	0.04	0	987.12
10/15/05 7:00	84.4	0.2	1	0.8	1.8	0.1	182.3	4.7	141.3	0.51	0	987.17
10/15/05 8:00	69.9	0.9	1.2	0.3	2.3	0.2	163.3	12.1	322	1.16	0	987.28
10/15/05 9:00	62.4	1.1	1.3	0.3	3.7	0.4	179.3	18.5	176	0.31	0	987.31
10/15/05 10:00	57.7	1.9	2.2	0.4	4.5	0.6	193.3	15.5	613.9	2.21	0	987.19
10/15/05 11:00	50.6	1.7	2	0.3	4.5	0.6	182.1	19	687.6	2.48	0	986.61
10/15/05 12:00	42.6	1.8	2.1	0.4	5.9	0.7	184.8	18	701.6	2.53	0	985.63
10/15/05 13:00	32.3	2.5	3	0.5	5.2	0.6	194.7	18.6	651.3	2.34	0	984.83
10/15/05 14:00	32.5	1.9	2.3	0.4	4.6	0.6	180.3	21	540.6	1.95	0	984.28
10/15/05 15:00	31.8	1.9	2.3	0.4	4.3	0.5	166.5	13.1	390.8	1.41	0	983.9
10/15/05 16:00	36.6	1	1.6	0.6	3.2	0.3	155.8	11.2	191.8	0.69	0	983.6
10/15/05 17:00	48.3	0	1.3	1.2	1.7	0.1	151.7	5.7	40.8	0.15	0	983.49
10/15/05 18:00	52	0	1.1	1.1	1.7	0.1	156.7	5	-0.3	0	0	983.57
10/15/05 19:00	52.6	0.1	1	0.9	1.4	0.1	136.2	5.2	-1	0	0	983.84
10/15/05 20:00	55.4	0	0.9	0.8	1.5	0.1	146.3	3.8	-0.8	0	0	984.01
10/15/05 21:00	59.7	0.1	1.1	1	2	0.2	178.7	7.4	-0.8	0	0	984.12
10/15/05 22:00	55.3	0	1	1	1.8	0.2	169.5	6.9	-0.7	0	0	984.24
10/15/05 23:00	61.8	0	0.6	0.5	1.3	0.2	185.1	6.6	-0.8	0	0	984.27
10/16/05 0:00	62.6	0.1	0.5	0.5	1	0.1	147.6	8.7	-0.8	0	0	984.36
10/16/05 1:00	65.5	0	0.5	0.5	1.3	0.1	200.8	4.3	-1	0	0	984.46
10/16/05 2:00	70.2	0.1	0.9	0.3	3.7	0.1	159.6	1.1	-0.9	0	0	984.51
10/16/05 3:00	66.6	0	0.2	0.2	0.8	0.1	86.6	-1	-1	0	0	984.37
10/16/05 4:00	69.4	0.1	1.3	1.2	1.8	0.1	98.1	4.5	-1	0	0	984.72
10/16/05 5:00	77.3	0.1	1.2	1.1	1.9	0.2	101	7.8	-1	0	0	985.18
10/16/05 6:00	83.6	0.2	0.9	0.7	1.9	0.2	172.3	9	7.8	0.03	0	985.56
10/16/05 7:00	73.4	0.7	1.5	0.8	3.3	0.3	191.3	10.9	126.9	0.46	0	985.99
10/16/05 8:00	60.9	1.6	2	0.5	3.8	0.4	169.3	11.7	298.6	1.07	0	986.35
10/16/05 9:00	52.6	1.6	2	0.3	3.9	0.4	167	13.9	424.9	1.53	0	986.67
10/16/05 10:00	44.7	2.3	2.8	0.5	4.5	0.6	190.7	11.9	589.9	2.12	0	986.64
10/16/05 11:00	35.3	2.7	3.3	0.6	5.3	0.6	192.1	12.3	670.9	2.42	0	986.31
10/16/05 12:00	33.7	2.5	3.1	0.5	6.2	0.7	162.4	17.6	691.8	2.49	0	985.46
10/16/05 13:00	32.1	3.4	4.2	0.8	7.7	0.9	168.8	17.6	640.8	2.31	0	984.36
10/16/05 14:00	32.2	3	3.7	0.8	7	0.8	172.5	14.3	530.6	1.91	0	983.61
10/16/05 15:00	32.9	2.9	3.5	0.6	6.8	0.8	156.7	12.7	376.3	1.35	0	983.01
10/16/05 16:00	36.6	2.1	2.7	0.6	5	0.6	186.3	10.4	196.8	0.71	0	982.63
10/16/05 17:00	49.7	0.6	1.9	1.3	3.7	0.2	179.2	6.5	33	0.12	0	982.63
10/16/05 18:00	54.7	0.4	1.8	1.5	2.6	0.2	179.8	5.7	-0.6	0	0	982.7
10/16/05 19:00	54.5	1.3	2.6	1.3	4.2	0.3	183.9	7.1	-0.9	0	0	982.89
10/16/05 20:00	54.1	1.5	2.5	1	4	0.3	198.8	6.4	-0.3	0	0	983.16
10/16/05 21:00	56	1.2	2.1	0.9	4.1	0.5	148.4	11.6	-0.2	0	0	983.27
10/16/05 22:00	62.1	1	2	1	3.6	0.3	161.8	9.8	-0.9	0	0	983.12
10/16/05 23:00	63.1	1.8	2.7	0.9	4.5	0.5	180.5	10	-1	0	0	982.48
10/17/05 0:00	67.4	1.4	2.2	0.9	4	0.3	174.3	9.7	-1	0	0	982.15
10/17/05 1:00	67.9	1.9	2.9	1	5.3	0.4	183.8	7.5	-1	0	0	981.88
10/17/05 2:00	65	2.2	3.3	1.1	5.3	0.5	180.5	7.9	-1	0	0	981.54
10/17/05 3:00	63	2.3	3.6	1.2	6	0.6	176.1	8.9	-1	0	0	981.36
10/17/05 4:00	64.6	2.6	3.9	1.3	6.6	0.6	176.3	8.5	-1	0	0	981.13
10/17/05 5:00	64.8	2.8	4.2	1.4	6.4	0.6	174.8	8.2	-1	0		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127								RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	
10/17/05 18:00	0.06202	27.2	2.9	1.8	292.5	4.5	0.003	0.018	0.045	0.063	24.8	22.22	72
10/17/05 19:00	0.05899	25.4	0.7	4	292.5	5.8	0	0.032	0.035	0.067	25.8	19.44	84
10/17/05 20:00	0.05934	24.7	1	3.1	292.5	4.9	0	0.031	0.034	0.064	28	18.89	88
10/17/05 21:00	0.05672	23.6	0.9	1.3	292.5	4	0	0.011	0.038	0.048	24.8	18.33	87
10/17/05 22:00	0.05368	22.6	1.4	0	292.5	2.2	0	0.014	0.033	0.047	26.2	17.22	90
10/17/05 23:00	0.03484	21.8	0.7	0	45	1.6	0.001	0.015	0.026	0.041	27.5	16.67	91
10/18/05 0:00	0.04293	21.7	0.4	0.4	45	1.8	0	0.014	0.019	0.032	26.1	15.56	93
10/18/05 1:00	0.0352	21.6	0.2	0.9	22.5	2.7	0	0.013	0.016	0.029	25.1	14.44	94
10/18/05 2:00	0.03236	21.3	0.6	0.4	202.5	2.2	0	0.014	0.013	0.026	26.8	13.89	95
10/18/05 3:00	0.03738	20.8	1	0.9	315	4.5	0	0.01	0.012	0.022	23	13.33	95
10/18/05 4:00	0.0468	20.7	0.2	2.2	315	5.4	0	0.017	0.008	0.025	23.7	12.78	95
10/18/05 5:00	0.04211	20.8	0.2	2.2	315	5.4	0	0.018	0.008	0.026	25	12.22	95
10/18/05 6:00	0.03618	20.8	0.4	0.9	315	4	0	0.071	0.01	0.081	27.2	12.22	95
10/18/05 7:00	0.03149	20.8	0.5	0.4	225	1.8	0	0.155	0.01	0.164	28.4	13.89	93
10/18/05 8:00	0.02082	21.6	1.1	0.9	22.5	3.1	0.001	0.103	0.022	0.126	34.7	19.44	77
10/18/05 9:00	0.01424	23.5	7.7	0.4	337.5	2.7	0.008	0.052	0.037	0.089	41.6	23.89	65
10/18/05 10:00	0.0211	34.5	8.4	0.4	315	2.7	0.027	0.01	0.024	0.034	32.1	26.11	56
10/18/05 11:00	0.01353	40.8	4.9	0.9	180	3.1	0.031	0.01	0.027	0.038	39.5	28.89	50
10/18/05 12:00	0.02684	39	2.2	1.8	202.5	4	0.046	0.004	0.019	0.022	33.3	30.00	46
10/18/05 13:00	0.05046	39.3	3.7	2.7	202.5	5.8	0.055	0.001	0.009	0.01	24	31.67	39
10/18/05 14:00	0.04818	36.8	3.9	2.2	180	8.9	0.048	0	0.003	0.003	16.6	32.78	32
10/18/05 15:00	0.04811	35.1	3.4	3.6	202.5	8.5	0.048	0	0.006	0.006	16.9	32.78	31
10/18/05 16:00	0.04667	32.6	3.8	4.5	202.5	10.3	0.045	0	0.009	0.01	19.2	31.67	33
10/18/05 17:00	0.04372	30.2	1.6	5.4	202.5	8.5	0.031	0.004	0.024	0.028	21.8	28.89	44
10/18/05 18:00	0.04717	28.4	2.3	3.6	180	8	0.004	0.016	0.044	0.06	27.8	23.89	63
10/18/05 19:00	0.04431	26.8	0.9	4	22.5	7.2	0.001	0.029	0.04	0.069	26.8	22.22	72
10/18/05 20:00	0.04791	26.9	0.7	5.4	180	11.6	0.002	0.023	0.038	0.06	31	22.22	71
10/18/05 21:00	0.04373	26.1	1.4	4	22.5	7.6	0.001	0.018	0.032	0.05	31.7	21.11	77
10/18/05 22:00	0.03902	25.3	0.4	4	22.5	7.2	0	0.019	0.029	0.048	31.9	19.44	84
10/18/05 23:00	0.0458	25.2	0.8	3.6	22.5	8	0	0.006	0.025	0.031	31	18.33	88
10/19/05 0:00	0.04947	25	0.9	3.6	0	10.3	0	0.006	0.025	0.031	30.4	18.33	90
10/19/05 1:00	0.05444	24.1	0.9	3.6	22.5	9.4	0.017	0	0.015	0.015	30	18.89	85
10/19/05 2:00	0.0527	23.2	0.9	3.1	180	9.4	0.02	0	0.014	0.014	30.1	19.44	80
10/19/05 3:00	0.0537	22.8	0.7	3.1	157.5	9.4	0.028	0	0.013	0.012	31.4	20.00	75
10/19/05 4:00	0.05691	22.4	0.3	3.1	180	9.8	0.029	0	0.012	0.012	30	19.44	75
10/19/05 5:00	0.05447	22.1	0.5	5.4	180	10.3	0.024	0	0.016	0.016	29.3	18.89	76
10/19/05 6:00	0.05475	21.9	0.7	4	180	10.3	0.017	0	0.026	0.025	28.8	18.33	76
10/19/05 7:00	0.04866	21.1	0.8	4.9	180	11.2	0.012	0.005	0.032	0.037	29.7	20.56	67
10/19/05 8:00	0.04536	21.1	0.5	5.4	180	12.1	0.02	0.005	0.004	0.02	22.9	22.78	59
10/19/05 9:00	0.03451	21.3	2.7	6.3	180	11.6	0.032	0.004	0.017	0.02	24.6	25.00	53
10/19/05 10:00	0.03501	25.6	4.1	6.7	180	9.4	0.045	0.001	0.009	0.011	24.8	27.22	48
10/19/05 11:00	0.0416	28.9	2.7	6.3	202.5	8.9	0.052	0.001	0.008	0.009	23	29.44	43
10/19/05 12:00	0.05279	31	1.8	7.2	202.5	11.2	0.054	0	0.006	0.006	21.1	31.67	37
10/19/05 13:00	0.05469	31.9	1.9	8	202.5	13.4	0.054	0	0.005	0.005	19.5	32.22	34
10/19/05 14:00	0.055	32.4	2.4	6.3	180	13.9	0.053	0	0.005	0.005	17.8	32.22	30
10/19/05 15:00	0.0559	31.6	2.9	6.7	202.5	13.9	0.052	0	0.006	0.006	16.8	31.11	31
10/19/05 16:00	0.05842	29.3	1.2	4	180	10.7	0.05	0	0.008	0.008	18.8	30.56	34
10/19/05 17:00	0.0556	28.9	1.5	2.7	180	8.5	0.037	0.002	0.019	0.021	19.9	28.33	40
10/19/05 18:00	0.05864	27.6	1.4	3.1	22.5	9.4	0.015	0.005	0.041	0.045	22.8	26.11	48
10/19/05 19:00	0.0626	27.5	0.9	9.4	202.5	13	0.044	0	0.015	0.014	20.9	26.67	43
10/19/05 20:00	0.05843	26.5	1.1	10.3	202.5	14.8	0.035	0	0.017	0.017	22.2	24.44	59
10/19/05 21:00	0.0502	23.3	6.5	9.8	202.5	18.3	0.047	0	0.008	0.008	20.5	23.33	61
10/19/05 22:00	0.0617	23.7	1.6	11.6	202.5	17.9	0.054	0	0.004	0.004	20.8	24.44	49
10/19/05 23:00	0.06217	23.8	0.9	6.5	202.5	19.2	0.005	0	0.005	0.004	14.7	23.33	57
10/20/05 0:00	0.05204	22.3	2.2	6.7	202.5	17.9	0.031	0	0.006	0.006	17.7	18.89	86
10/20/05 1:00	0.04229	21.8	0.8	2.7	0	6.3	0.021	0	0.007	0.006	19.3	18.33	91
10/20/05 2:00	0.0436	22.1	0.3	4.5	180	11.6	0.012	0	0.009	0.009	22.2	17.78	91
10/20/05 3:00	0.04148	21.2	1.5	4	180	10.7	0.021	0	0.012	0.011	19.8	17.78	84
10/20/05 4:00	0.02925	20.5	1.2	3.1	0	8.9	0.022	0	0.005	0.004	22.6	18.33	86
10/20/05 5:00	0.01764	18.9	1.6	4.5	292.5	9.8	0.013	0	0.004	0.004	19.1	16.67	92
10/20/05 6:00	0.0117	17.2	1.6	7.2	292.5	12.5	0.013	0	0.004	0.004	16.8	15.00	88
10/20/05 7:00	0.009256	16.3	1.8	7.2	292.5	15.2	0.01	0.001	0.004	0.004	11.1	14.44	86
10/20/05 8:00	0.009102	15.9	1.6	5.4	292.5	11.6	0.014	0.001	0.003	0.004	11.7	13.89	82
10/20/05 9:00	0.01324	15.8	1.6	6.7	292.5	13.9	0.015	0.001	0.003	0.004	10.1	13.89	78
10/20/05 10:00	0.01305	16.7	4.6	5.4	292.5	10.7	0.017	0.001	0.002	0.003	11.4	15.56	71
10/20/05 11:00	0.01399	24.9	9.3	5.4	292.5	11.6	0.019	0.001	0.002	0.003	11.7	16.67	63
10/20/05 12:00	0.01674	28.2	4.1	5.4	292.5	11.2	0.021	0.001	0.002	0.003	9.5	16.67	62
10/20/05 13:00	0.01524	27.1	5.4	4.5	292.5	10.7	0.02	0.001	0.003	0.004	11.7	16.11	63
10/20/05 14:00	0.01486	23	8.2	5.4	292.5	13	0.017	0.001	0.003	0.004	6.4	15.00	67
10/20/05 15:00	0.01511	17.3	3.4	5.4	292.5	11.6	0.016	0.001	0.005	0.006	9.3	15.00	70
10/20/05 16:00	0.01163	15.9	1.3	4.9	292.5	11.2	0.015	0.001	0.004	0.005	13.5	15.00	72
10/20/05 17:00	0.0129	15.8	0.9	3.1	292.5	8.9	0.014	0.001	0.006	0.005	15.6	16.67	73
10/20/05 18:00	0.01187	15.8	1.3	1.8	292.5	6.7	0.013	0.001	0.006	0.007	11.2	15.00	74
10/20/05 19:00	0.01008	16.3	1	1.3	112.5	4.9	0.015	0	0.004	0.004	11.5	13.89	77
10/20/05 20:00	0.01082	15.7	2	1.8	90	6.7	0.014	0	0.004	0.004	11.3	13.89	80
10/20/05 21:00	0.0107	15.3	3	1.3	202.5	5.8	0.013	0.001	0.004	0.005	12.6	13.33	83
10/20/05 22:00	0.01253	13.8	0.8	1.8	202.5	5.8	0.011	0	0.004	0.005	13.1	13.33	84
10/20/05 23:00	0.01037	14.2	1.3	1.3	202.5	4.9	0.011	0	0.003	0.003	13.3	13.33	84
10/21/05 0:00	0.01035	13.5	0.8	1.8	202.5	6.7	0.01	0	0.003	0.003	15.1	12.78	88
10/21/05 1:00	0.009725	13.6	1.7	1.8	202.5	4.9	0.011	0	0.003	0.003	13.2	12.78	87
10/21/05 2:00	0.01164	13	0.5	2.2	225	5.8	0.019	0	0.002	0.002	11.5	12.22	83
10/21/05 3:00	0.01757	12.8	0.8	2.2	202.5	5.8	0.025	0	0.002	0.002	10.5	12.22	81
10/21/05 4:00	0.0252	12.2	0.6	2.2	225	6.3	0.021	0	0.003	0.002	16.6	11.67	81
10/21/05 5:00	0.02092	12.4	0.6	1.8	202.5	4.9	0.023	0	0.002	0.002	15.6	11.67	81
10/21/05 6:00	0.02265	12.3	0.7	2.2	202.5	6.3	0.024	0	0.003	0.003	11.5	11.67	81
10/21/05 7:00	0.02444	11.9	0.5	2.2	202								

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
10/17/05 18:00	214	0	24.4	18.6	15	56	0.00	0	985.44	21.2	25.9	4.7
10/17/05 19:00	213	0	22.8	18.6	16.1	66	0.00	0	985.44	21.1	25.1	4
10/17/05 20:00	207	0.44704	21.1	17.7	15.6	71	2.06	200	985.78	19.6	23.5	4
10/17/05 21:00	236	0	21.7	18	15.6	68	1.54	200	986.12	18.9	22.7	3.8
10/17/05 22:00	225	0	20	17.3	15.6	76	0.00	0	986.45	19.2	21.7	2.5
10/17/05 23:00	104	0	16.7	15.4	14.4	66	0.00	0	986.45	18.6	20.6	2
10/18/05 0:00	228	0	17.8	16.1	15	84	0.00	0	986.12	18.7	20.2	1.5
10/18/05 1:00	121	0	15.6	14.6	13.9	90	0.00	0	986.45	16.7	19.1	2.4
10/18/05 2:00	199	0	17.2	15.9	15	87	0.00	0	986.12	15.6	18.8	3.3
10/18/05 3:00	213	0	17.2	15.6	14.4	84	0.00	0	986.12	15.9	18.3	2.5
10/18/05 4:00	89	0	15	13.8	12.8	87	0.00	0	986.45	14.8	18.1	3.2
10/18/05 5:00	204	0.44704	15	13.8	12.8	87	0.00	0	986.45	14.4	17.2	2.9
10/18/05 6:00	142	0	14.4	13.5	12.8	90	1.54	180	986.79	14.6	16.8	2.2
10/18/05 7:00	110	0	17.8	16.1	15	84	0.00	0	987.13	17.6	18.4	0.7
10/18/05 8:00	95	0.44704	21.1	18	16.1	73	0.00	0	987.47	20.3	20	-0.3
10/18/05 9:00	179	0.44704	24.4	19.5	16.7	62	1.54	200	987.47	23.4	22.7	-0.6
10/18/05 10:00	180	0.89408	27.2	20.7	17.2	54	2.06	200	987.13	25.4	24.5	-0.9
10/18/05 11:00	196	1.34112	29.4	21.4	17.2	48	3.09	170	986.45	27.4	26.6	-0.8
10/18/05 12:00	191	1.34112	30.6	21.8	17.2	45	2.57	190	985.44	29.5	28.5	-1
10/18/05 13:00	207	1.34112	32.2	21.4	15.6	37	3.60	220	984.42	30.9	29.9	-0.9
10/18/05 14:00	220	1.34112	32.8	20.7	13.9	32	3.60	210	983.75	31.6	30.8	-0.7
10/18/05 15:00	201	1.34112	32.2	20.3	13.3	32	5.66	200	983.41	31.5	31.2	-0.3
10/18/05 16:00	192	1.34112	31.1	19.9	13.3	34	3.60	190	983.07	29.9	30.3	0.4
10/18/05 17:00	165	0.44704	28.3	19.9	15	44	3.09	190	983.41	26.3	28.3	2
10/18/05 18:00	211	0	27.2	19.8	15.6	49	4.12	190	983.75	24.6	26.9	2.3
10/18/05 19:00	208	0	26.1	19.8	16.1	54	4.12	200	984.08	23.4	25.5	2.1
10/18/05 20:00	183	0	26.1	19.8	16.1	54	3.60	180	984.08	23.5	24.9	1.4
10/18/05 21:00	192	0	24.4	19.5	16.7	62	2.57	170	984.42	22.8	24.3	1.4
10/18/05 22:00	227	0	22.8	19	16.7	69	2.06	190	984.76	22.3	24	1.7
10/18/05 23:00	226	0	22.2	18.8	16.7	71	3.09	180	984.76	22.5	23.9	1.4
10/19/05 0:00	118	0	21.7	18.2	16.1	71	2.57	170	984.76	22.2	23.4	1.2
10/19/05 1:00	203	0.44704	22.8	18.3	15.6	64	4.12	180	984.76	22.1	23	0.9
10/19/05 2:00	197	0.44704	22.2	17.8	15	64	4.63	190	984.76	21.6	22.4	0.8
10/19/05 3:00	202	0.89408	21.7	17.3	14.4	63	4.12	180	984.42	21.1	21.8	0.8
10/19/05 4:00	206	0.89408	20.6	16.9	14.4	68	3.09	170	984.76	20.5	21.2	0.7
10/19/05 5:00	212	0.89408	20	16.4	13.9	68	3.60	170	984.76	20	20.7	0.7
10/19/05 6:00	214	0.89408	20.6	16.3	13.3	63	4.63	180	985.10	19.9	20.5	0.6
10/19/05 7:00	200	1.34112	21.7	16.7	13.3	59	5.66	180	985.10	20.4	20.6	0.2
10/19/05 8:00	198	1.78816	23.9	17.8	13.9	54	5.66	180	985.44	22	21.6	-0.4
10/19/05 9:00	198	2.2352	25.6	18.7	14.4	50	5.14	180	985.10	24.2	23.6	-0.6
10/19/05 10:00	198	2.2352	27.8	19.7	15	46	5.66	180	984.76	26.5	25.6	-0.8
10/19/05 11:00	198	2.2352	30.6	20.6	15	39	7.20	180	983.75	28.4	27.5	-0.9
10/19/05 12:00	200	2.2352	31.7	20.9	15	36	6.17	180	983.07	30.5	29.6	-0.9
10/19/05 13:00	206	2.2352	32.2	20.8	14.4	34	7.20	190	982.39	31.1	30.4	-0.7
10/19/05 14:00	203	2.68224	32.8	20.2	12.8	30	5.14	200	981.71	30.3	30	-0.3
10/19/05 15:00	203	1.78816	31.7	19.9	12.8	32	5.14	200	981.38	28.7	29	0.3
10/19/05 16:00	204	0.89408	30.6	19.2	12.2	32	6.17	190	981.04	27.4	28.1	0.8
10/19/05 17:00	204	0.44704	28.9	19	12.8	37	3.09	190	981.04	25.5	27.3	1.8
10/19/05 18:00	185	0.89408	28.3	19	13.3	40	4.63	190	981.04	25.8	27	1.2
10/19/05 19:00	199	1.78816	27.2	18.6	13.3	42	4.12	170	980.70	24.7	26.1	1.4
10/19/05 20:00	195	1.34112	26.1	19.2	15	50	6.69	180	981.04	22.9	24	1
10/19/05 21:00	189	2.2352	24.4	18.3	14.4	54	6.69	170	980.36	22.3	23	0.7
10/19/05 22:00	191	2.68224	24.4	18	13.9	52	7.72	170	979.68	22.2	22.7	0.5
10/19/05 23:00	260	2.68224	23.3	17.6	13.9	56	3.60	310	981.38	20.2	20.9	0.7
10/20/05 0:00	215	0.44704	20.6	17.2	15	70	2.06	300	981.38	18.4	19.3	0.9
10/20/05 1:00	150	0.44704	19.4	16.6	15	76	4.12	140	980.36	16.6	18.3	0.9
10/20/05 2:00	186	0.44704	21.7	17	13.9	61	3.09	190	980.02	17.3	18.2	0.9
10/20/05 3:00	259	0.44704	21.7	17	13.9	61	3.09	250	980.36	16.8	17.5	0.7
10/20/05 4:00	271	1.78816	18.3	17	16.1	87	5.66	300	980.70	16.5	16.6	0
10/20/05 5:00	289	2.68224	16.7	15.7	15	90	7.72	280	981.38	14.8	14.8	0
10/20/05 6:00	301	3.12928	15.6	14	12.8	84	7.72	300	982.05	13.4	13.4	0.1
10/20/05 7:00	307	2.68224	14.4	12.6	11.1	81	5.66	300	983.07	12.8	12.9	0
10/20/05 8:00	302	3.12928	14.4	12	10	75	6.69	290	984.08	13	12.9	-0.1
10/20/05 9:00	306	3.12928	15	12.3	10	72	5.14	290	984.42	13.4	13.2	-0.2
10/20/05 10:00	302	3.12928	16.7	13	10	65	6.69	320	984.42	13.9	13.5	-0.3
10/20/05 11:00	290	3.12928	18.3	13.4	9.4	56	7.72	300	984.42	14.6	14	-0.6
10/20/05 12:00	297	3.12928	17.8	13	8.9	56	6.69	280	984.76	15.4	14.7	-0.7
10/20/05 13:00	307	4.02336	16.1	12.2	8.9	63	7.20	310	985.10	14.5	14.3	-0.3
10/20/05 14:00	306	3.57632	15.6	12	8.9	65	7.20	300	985.44	14.1	14	-0.1
10/20/05 15:00	311	3.12928	15	12	9.4	69	5.14	310	985.78	14.2	14.1	-0.1
10/20/05 16:00	313	3.12928	15	12.3	10	72	4.63	320	986.12	13.9	13.9	0
10/20/05 17:00	265	2.2352	15	12.3	10	72	3.60	330	987.13	13.6	13.7	0.1
10/20/05 18:00	251	1.78816	14.4	12	10	75	4.63	330	987.47	13.1	13.2	0.1
10/20/05 19:00	191	2.68224	13.9	11.8	10	78	4.12	330	988.15	12.2	12.3	0.1
10/20/05 20:00	182	2.2352	13.3	11.8	10.6	84	4.63	340	988.49	11.9	12	0.1
10/20/05 21:00	181	2.2352	13.3	11.8	10.6	84	3.09	330	988.49	12	12.1	0.1
10/20/05 22:00	235	1.78816	13.3	11.8	10.6	84	4.63	340	988.83	11.8	11.9	0.1
10/20/05 23:00	188	2.68224	13.3	11.8	10.6	84	5.66	330	988.49	11.7	11.7	0
10/21/05 0:00	212	2.2352	12.8	11.6	10.6	87	5.14	340	988.83	11.5	11.6	0.1
10/21/05 1:00	166	2.2352	12.8	11.6	10.6	87	4.12	350	989.16	11.2	11.3	0.1
10/21/05 2:00	133	2.68224	12.2	11	10	87	4.12	340	989.16	10.9	11	0.1
10/21/05 3:00	121	3.12928	11.7	10.3	8.9	83	6.17	350	989.50	10.9	11	0.1
10/21/05 4:00	74	3.12928	11.7	10.3	8.9	83	6.17	340	990.18	10.9	11.1	0.1
10/21/05 5:00	192	2.2352	12.2	10.5	8.9	80	5.14	350	990.86	10.9	10.9	0.1
10/21/05 6:00	158	2.68224	12.2	10.5	8.9	80	5.66	350	991.20	10.9	11	0.1
10/21/05 7:00	87	2.68224	11.7	10	8.3	80	4.63	360	991.87	10.8	10.9	0.1
10/21/05 8:00	81	2.2352	12.2	10.2	8.3	77	5.14	360	992.55	11	11	0
10/21/05 9:00	85	2.68224	12.2	10.5	8.9	80	4.12	10	992.89	11.3	11.1	-0.2
10/21/05 10:00	120	3.12928	13.3	10.7	8.3	72	5.66	360	993.23	12.2	11.9	-0.3
10/21/05 11:00	240	2.68224	14.4	11.5	8.9	70	4.63	340	992.55	13.2	12.8	-0.4
10/21/05 12:00	208	2.68224	15	11.8	8.9	67	4.63	340	992.21	13.9	13.5	-0.4
10/21/05 13:00	155	2.2352	15.6	12	8.9	65	4.63	340	992.21	14.6	14.2	-0.4
10/21/05 14:00	196	2.68224	15.6	11.7	8.3	62	5.66	340	992.21	15.2	14.9	-0.3
10/21/05 15:00	177	2.2352	16.7	12.5	8.9	60	2.06	360	992.21	16.7</		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{SEV}	WDIR	WDIR _{REV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
10/17/05 18:00	70.3	0	1	1	2	0.2	246.3	7.2	-0.5	0	0	978.78
10/17/05 19:00	68.3	0	1.2	1.2	2.5	0.2	250.2	10	-1	0	0	978.92
10/17/05 20:00	72.6	0	1.4	1.4	2.5	0.1	224.1	5.1	-1	0	0	979.01
10/17/05 21:00	75.8	0	1.8	1.8	3.2	0.2	232.1	7.4	-1	0	0	979.38
10/17/05 22:00	79.9	0	2	2	3.3	0.2	224.3	7.8	-1	0	0	979.63
10/17/05 23:00	75.8	0	2.1	2.1	2.7	0.2	217.9	4.5	-1	0	0	979.53
10/18/05 0:00	77.6	1.4	2.2	0.9	4	0.4	234.2	9.3	-1	0	0	979.44
10/18/05 1:00	83.9	0.3	1.4	1.2	2.5	0.2	201.8	8.3	-1	0	0	979.49
10/18/05 2:00	90.5	0.4	1.3	0.9	2.4	0.2	226.7	9.1	-1	0	0	979.28
10/18/05 3:00	88.8	0	1.1	1	2.5	0.2	220	6.3	-1	0	0	979.27
10/18/05 4:00	92.5	0.1	0.7	0.7	1.3	0.1	220.3	5.2	-1	0	0	979.49
10/18/05 5:00	94.4	0	1	1	1.5	0.1	212.4	3.6	-1	0	0	979.54
10/18/05 6:00	94.9	0.1	0.8	0.7	1.6	0.1	201.9	3.9	8.7	0.03	0	979.64
10/18/05 7:00	94.3	0	0.5	0.5	1.5	0.1	156.2	6	140.8	0.51	0	980.03
10/18/05 8:00	78.8	0.4	0.8	0.4	1.5	0.2	90.3	11.8	316.8	1.14	0	980.58
10/18/05 9:00	63.6	1.3	1.5	0.2	2.7	0.3	175.8	11.5	482.4	1.74	0	980.73
10/18/05 10:00	54.2	1.7	2	0.3	3.3	0.4	153.3	14.1	603.7	2.17	0	980.43
10/18/05 11:00	51.8	2	2.3	0.3	4.4	0.5	182.8	18.9	669.7	2.41	0	980.04
10/18/05 12:00	49.2	2.3	2.7	0.4	4.7	0.7	181.2	16.2	678.3	2.44	0	979.16
10/18/05 13:00	42.3	2.4	2.9	0.5	5	0.6	189	14.4	625.3	2.25	0	978.25
10/18/05 14:00	37.9	2.3	2.8	0.5	5.5	0.7	174.9	19.2	517.4	1.86	0	977.55
10/18/05 15:00	32.7	2.5	3.2	0.7	5.3	0.6	177.8	12	368.4	1.33	0	977.19
10/18/05 16:00	35.4	1.9	2.8	0.9	6.1	0.5	167.6	8.9	190.2	0.68	0	976.88
10/18/05 17:00	45.9	0.2	1.6	1.5	2.8	0.2	160.9	6.9	28.3	0.1	0	976.86
10/18/05 18:00	51.1	0.7	2.1	1.4	3.4	0.3	191.1	7.8	-0.6	0	0	977.02
10/18/05 19:00	57	1.1	2.5	1.3	4.2	0.3	179.1	6.8	-0.9	0	0	977.29
10/18/05 20:00	60.4	1.5	2.9	1.4	4.7	0.4	176.4	7.5	-1	0	0	977.58
10/18/05 21:00	65.3	1.3	2.6	1.3	4.9	0.4	177.7	8	-1	0	0	977.83
10/18/05 22:00	69.4	0.9	2.2	1.3	3.4	0.3	175.9	7.3	-1	0	0	977.97
10/18/05 23:00	69.8	1.5	2.7	1.2	4.3	0.4	177.8	7.7	-0.9	0	0	977.91
10/19/05 0:00	70.3	1.8	3	1.2	4.5	0.4	180.7	8.2	-1	0	0	978.02
10/19/05 1:00	69.6	2.2	3.5	1.2	5.2	0.5	180.9	7.5	-1	0	0	978.11
10/19/05 2:00	68.5	2.6	3.8	1.2	5.8	0.5	181.1	7.8	-0.9	0	0	977.92
10/19/05 3:00	68.3	2.5	3.9	1.4	6.4	0.6	177.6	8	-1	0	0	977.65
10/19/05 4:00	68.7	2.5	3.9	1.4	5.8	0.6	175.3	7.8	-1	0	0	977.64
10/19/05 5:00	68.9	2.2	3.4	1.2	5.5	0.5	172.1	8.7	-1	0	0	977.91
10/19/05 6:00	68.1	2.4	3.6	1.2	5.8	0.5	176.1	8.5	9.6	0.03	0	978.1
10/19/05 7:00	65.3	2.8	3.7	0.9	7.1	0.6	166.3	10	113.6	0.41	0	978.15
10/19/05 8:00	62.4	2.8	3.4	0.6	6.6	0.7	158.6	11.5	299.7	1.08	0	979.17
10/19/05 9:00	56.4	3.6	4.4	0.8	7.3	0.9	163.6	10.6	439.9	1.58	0	977.94
10/19/05 10:00	51.5	3.8	4.6	0.8	7.2	0.9	157	11.4	589.1	2.12	0	977.84
10/19/05 11:00	47.2	3.4	4	0.6	7.9	1	184.8	12.7	654	2.35	0	977.42
10/19/05 12:00	40.2	3.8	4.8	0.9	10.8	1	171.8	13.4	655	2.36	0	976.62
10/19/05 13:00	34.7	4.7	6.1	1.3	9.2	1.2	174.8	11.4	600.3	2.16	0	976.09
10/19/05 14:00	33.9	3.6	4.6	1	8.9	0.9	171.8	11	378.1	1.36	0	975.26
10/19/05 15:00	37.3	2.3	3.2	0.9	6.7	0.6	166.4	9.9	143.7	0.52	0	975.26
10/19/05 16:00	41.7	1.4	2.4	1	4.4	0.4	166.5	8	88.2	0.32	0	974.89
10/19/05 17:00	49.8	0.7	2.1	1.4	3.7	0.3	151.7	7.5	7.7	0.03	0	974.73
10/19/05 18:00	45.5	1.3	2.2	0.8	4.5	0.4	166.8	10.3	-0.4	0	0	974.42
10/19/05 19:00	51.1	0.7	1.7	1	3.1	0.3	159.8	11.4	-0.6	0	0	974.36
10/19/05 20:00	62.5	2.4	3.2	0.8	7.8	0.7	144.7	11.2	-0.8	0	0.01	974.26
10/19/05 21:00	63.7	2.5	3.2	0.7	7.3	0.7	136.8	13.2	-0.8	0	0	973.79
10/19/05 22:00	61.3	2.5	3.2	0.6	7	0.8	181.3	16	-1	0	0	973.13
10/19/05 23:00	73.5	1.9	2.8	0.9	9.4	0.8	221.3	16.3	-1	0	0.06	974.87
10/20/05 0:00	87	0.7	1.7	1	4.4	0.3	200.3	12.1	-1	0	0	974.39
10/20/05 1:00	81.9	1.7	2.5	0.8	5.5	0.5	130.8	10.4	-1	0	0	973.7
10/20/05 2:00	86.4	0.6	1.7	1.1	3.1	0.3	217.6	9.9	-1	0	0	973.58
10/20/05 3:00	90.4	2	3	1	7.3	0.5	222.1	8.8	-1	0	0	973.42
10/20/05 4:00	94.7	3.4	4.2	0.8	9.8	1.2	247.5	17.1	-1	0	0	973.68
10/20/05 5:00	94.3	3.4	4.2	0.7	9.3	1.2	251	17.8	-1	0	0	974.33
10/20/05 6:00	90.9	3.3	4	0.7	8.3	1.2	249.5	17.9	1.8	0.01	0	975.08
10/20/05 7:00	88.8	3.1	3.8	0.7	8.3	1	244.8	15.8	69	0.25	0	975.79
10/20/05 8:00	84.3	3.2	3.9	0.7	9.6	1.2	253.8	17.5	91.7	0.33	0	976.67
10/20/05 9:00	80.9	3	3.6	0.6	7.6	1.1	258.2	18.4	217.1	0.78	0	977.26
10/20/05 10:00	75.6	3.1	3.9	0.8	9.2	1.2	250.1	17.8	264.9	0.95	0	977.64
10/20/05 11:00	70.6	3.6	4.3	0.7	9.3	1.2	245.3	17.8	483.4	1.74	0	977.74
10/20/05 12:00	66.6	3.9	4.6	0.8	10.2	1.4	242.7	17.9	488.7	1.76	0	977.85
10/20/05 13:00	69.9	3.6	4.4	0.8	8.7	1.2	252.8	18	175.9	0.63	0	978.01
10/20/05 14:00	72.9	2.7	3.3	0.6	7.3	1	263.7	19.5	116.8	0.42	0	978.32
10/20/05 15:00	73.8	2.6	3.1	0.6	7	1	265	17.1	54.3	0.2	0	979.07
10/20/05 16:00	78.3	2.4	3.2	0.8	6.9	1	288.1	16.6	25.5	0.09	0	978.77
10/20/05 17:00	78.5	1.8	2.5	0.7	4.4	0.3	284.3	15.7	5.3	0.02	0	979.85
10/20/05 18:00	81.9	1.9	2.5	0.6	5.3	0.8	290	18.1	-1	0	0	980.64
10/20/05 19:00	89.1	1.8	2.4	0.6	5.6	0.7	292.1	16.5	-1	0	0	981.03
10/20/05 20:00	93	1.5	2.2	0.6	4.9	0.7	295.8	15.9	-1	0	0	981.35
10/20/05 21:00	91.5	1.9	2.5	0.6	5.5	0.7	304.9	14.6	-1	0	0	981.64
10/20/05 22:00	92.3	1.8	2.3	0.6	4.8	0.7	302.4	16.2	-1	0	0	981.8
10/20/05 23:00	93.5	1.7	2.3	0.6	5.2	0.7	302	15.3	-1	0	0	981.85
10/21/05 0:00	94	1.8	2.5	0.7	5.8	0.7	310.2	14.2	-1	0	0	981.86
10/21/05 1:00	92.4	2.3	3	0.7	6	0.7	290.1	13.4	-1	0	0	982
10/21/05 2:00	87.9	2.5	3.2	0.7	6.7	0.8	313.2	13.7	-1	0	0	982.32
10/21/05 3:00	87.2	2.8	3.6	0.8	6.9	0.9	318.6	13.9	-1	0	0	982.56
10/21/05 4:00	86	2.2	2.9	0.7	6.8	0.8	312.3	14	-1	0	0	983.1
10/21/05 5:00	85.4	2.5	3.2	0.8	6.4	0.9	315.3	15.4	-1	0	0	983.76
10/21/05 6:00	85.3	2.4	3.1	0.7	6.4	0.7	179	13.1	0.7	0	0	984.1
10/21/05 7:00	86	2	2.5	0.6	5.1	0.6	37.3	12.6	12.6	0.05	0	984.65
10/21/05 8:00	85.1	2.5	3.2	0.7	7.1	0.9	206.8	13.7	36.8	0.13	0	985.54
10/21/05 9:00	84.1	2.6	3.3	0.7	7.3	0.8	261.1	15.5	102.5	0.37	0	986.05
10/21/05 10:00	80.2	2.5	3.2	0.6	7.2	0.8	289	15.7	173.2	0.62	0	986.11
10/21/05 11:00	75.4	2.5	3.2	0.7	6.7	0.9	306.4	17.9	238.8	0.86	0	985.99
10/21/05 12:00	72.2	2.5	3.1	0.6	6.2	0.8	288	16	236.3	0.85	0	985.47
10/21/05 13:00	68.3	2.4	3	0.6	6.2	0.8	202.7	15.6	232.4	0.84	0	985.2
10/21/05 14:00	66.1	2.2	2.8	0.6	5.7	0.7	303.9	18	250.6	0.9	0	985.24
10/21/05 15:00	60.5	1.9	2.3	0.4	4.7	0.7	251.9	19.3	349.6	1.26	0	984.92
10/21/05 16:00	58.5	1.3	1.7	0.5	4	0.4	126.3	15	175	0.63	0	984.68
10/21/05 17:00	68.2	0.1	0.8	0.7	2.1	0.1	127.1	8.2	22.8	0.08	0	984.62
10/21/05 18:00	71.9	0.6	1.5	0.9	2.3	0.2	321.2	7.3	-0.9	0	0	984.98
10/21/05 19:00	64.1	1.2	2.1	0.9	4.1	0.4	321.2	9.2	-1	0	0	985.34
10/21/05 20:00	60.2	1.7	2.6	1	4.3	0.5	324.3	10.2	-1	0		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
10/22/05 9:00	0.01636	15.7	6.3	0.9	45	2.7	0.019	0.003	0.006	0.009	11	13.89	64	
10/22/05 10:00	0.01393	26.9	10.6	0.4	67.5	1.8	0.023	0.003	0.007	0.009	11.7	16.11	54	
10/22/05 11:00	0.01203	30.1	6.8	0.9	202.5	2.7	0.021	0.009	0.017	0.026	16.3	18.33	48	
10/22/05 12:00	0.02316	24.9	5.1	1.3	202.5	4	0.028	0.003	0.011	0.014	22.7	18.33	46	
10/22/05 13:00	0.02773	24.1	2.6	1.3	0	4.9	0.032	0	0.005	0.005	14.5	18.89	46	
10/22/05 14:00	0.0291	23.1	3.6	1.3	0	5.4	0.036	0	0.003	0.003	11.5	19.44	44	
10/22/05 15:00	0.03084	25	5	1.3	0	5.4	0.036	0	0.003	0.002	10.5	19.44	44	
10/22/05 16:00	0.02896	23.3	5.3	0.9	22.5	3.6	0.033	0	0.003	0.003	14.5	18.33	52	
10/22/05 17:00	0.02581	20.9	3.5	0.4	292.5	2.7	0.025	0.002	0.009	0.011	18.1	17.22	58	
10/22/05 18:00	0.02609	18.4	1.5	0	0	2.2	0.005	0.019	0.025	0.044	13.6	15.56	69	
10/22/05 19:00	0.01732	17.4	0.6	0	0	0.9	0	0.027	0.023	0.05	18.3	14.44	78	
10/22/05 20:00	0.02447	16.7	1.1	0.4	0	2.7	0	0.02	0.023	0.043	19.7	12.78	85	
10/22/05 21:00	0.01918	16.6	0.5	0.9	22.5	4.5	0.002	0.023	0.022	0.044	17	13.33	81	
10/22/05 22:00	0.01328	17	2.3	2.2	0	9.8	0.016	0	0.008	0.009	8.6	13.33	65	
10/22/05 23:00	0.01779	13.2	5.2	4	225	9.8	0.019	0	0.007	0.008	14.6	10.56	70	
10/23/05 0:00	0.01941	10.6	1	3.6	225	12.1	0.024	0	0.004	0.004	10.2	10.00	71	
10/23/05 1:00	0.02386	10.6	0.9	2.7	202.5	8.5	0.024	0	0.003	0.004	9.6	9.44	73	
10/23/05 2:00	0.02521	9.4	1.5	3.1	225	7.6	0.024	0.001	0.003	0.004	11.9	8.89	75	
10/23/05 3:00	0.02478	8.9	0.6	3.1	225	7.2	0.027	0	0.002	0.002	9.3	8.89	69	
10/23/05 4:00	0.02757	9.2	1.1	2.2	202.5	6.3	0.028	0	0.001	0.001	9.4	8.33	68	
10/23/05 5:00	0.02833	8.9	0.8	2.2	225	7.6	0.026	0	0.002	0.001	12.9	8.33	68	
10/23/05 6:00	0.02717	8.7	0.6	2.2	225	5.4	0.024	0	0.002	0.002	13.9	8.33	70	
10/23/05 7:00	0.02406	8.6	0.9	2.2	225	6.3	0.024	0	0.002	0.003	9.6	7.78	66	
10/23/05 8:00	0.02481	8.2	1.3	3.1	225	7.2	0.026	0	0.002	0.002	24.1	7.78	60	
10/23/05 9:00	0.02585	7.9	0.6	3.1	225	7.6	0.025	0.001	0.002	0.004	11.5	7.78	52	
10/23/05 10:00	0.0254	8.7	1.3	3.1	202.5	9.4	0.027	0.001	0.002	0.003	5.7	8.89	44	
10/23/05 11:00	0.0267	11	4	3.6	225	8.5	0.026	0	0.001	0.001	3.3	8.33	46	
10/23/05 12:00	0.02546	11.9	2.5	2.7	202.5	8.5	0.028	0.001	0.002	0.003	6.7	10.00	39	
10/23/05 13:00	0.02656	17.6	9	2.7	225	8	0.03	0.001	0.002	0.003	6.5	11.11	36	
10/23/05 14:00	0.02989	18.7	2.7	2.7	225	9.8	0.03	0.001	0.002	0.004	6.4	11.11	37	
10/23/05 15:00	0.02933	18.7	3.6	2.2	225	6.7	0.033	0	0.002	0.002	12.1	12.22	34	
10/23/05 16:00	0.03083	17.3	5.5	2.2	225	8	0.032	0.001	0.002	0.002	7.8	12.22	32	
10/23/05 17:00	0.03207	13.2	2	2.7	225	7.2	0.029	0.001	0.003	0.003	9.8	10.56	38	
10/23/05 18:00	0.02987	10.9	1.9	3.1	225	6.7	0.025	0.001	0.004	0.005	9.8	9.44	45	
10/23/05 19:00	0.02842	9.9	0.5	2.7	202.5	6.7	0.02	0.001	0.008	0.009	8.3	8.33	51	
10/23/05 20:00	0.02897	10	0.5	1.3	202.5	4	0.021	0	0.006	0.006	10.8	7.78	54	
10/23/05 21:00	0.02901	9.4	1.1	2.2	202.5	5.8	0.023	0	0.003	0.003	8.5	7.78	54	
10/23/05 22:00	0.02845	8.8	0.6	2.7	202.5	5.8	0.02	0	0.004	0.004	9.5	6.67	61	
10/23/05 23:00	0.02642	8.5	0.4	3.6	202.5	7.2	0.014	0	0.005	0.005	15.5	4.44	74	
10/24/05 0:00	0.02446	8.3	0.7	2.7	202.5	6.3	0.012	0	0.005	0.005	10.2	3.33	81	
10/24/05 1:00	0.02292	8.4	1.1	2.2	202.5	5.8	0.016	0	0.002	0.002	7.9	3.89	78	
10/24/05 2:00	0.02231	8.3	1	1.8	202.5	5.4	0.016	0	0.002	0.002	8.9	3.89	77	
10/24/05 3:00	0.02082	7.4	1.5	2.2	202.5	5.4	0.014	0	0.002	0.002	10	3.33	81	
10/24/05 4:00	0.01909	6.4	0.9	2.7	225	6.3	0.001	0.002	0.005	0.007	9.8	2.78	83	
10/24/05 5:00	0.01792	6.2	0.7	2.7	202.5	5.4	0.008	0.002	0.007	0.009	11.6	2.78	86	
10/24/05 6:00	0.01709	7.1	1.3	1.8	202.5	4	0.006	0.006	0.01	0.015	10.5	2.78	86	
10/24/05 7:00	0.01716	7.2	1.1	1.3	202.5	3.1	0.008	0.007	0.009	0.016	12.5	3.89	81	
10/24/05 8:00	0.01636	7.2	1.4	2.2	202.5	5.8	0.016	0.003	0.003	0.006	11.5	6.67	70	
10/24/05 9:00	0.01693	8.2	6.6	2.2	225	5.8	0.018	0.005	0.004	0.009	12.4	8.33	62	
10/24/05 10:00	0.0177	17.3	8.1	1.3	225	4	0.021	0.003	0.003	0.007	13.1	10.00	57	
10/24/05 11:00	0.01953	23.1	5.4	0.9	270	3.6	0.025	0.002	0.002	0.004	10.1	11.11	51	
10/24/05 12:00	0.02324	25.7	3.7	1.3	225	6.3	0.027	0.001	0.003	0.004	10.1	12.78	46	
10/24/05 13:00	0.02572	26.3	2.4	1.3	225	5.8	0.03	0.001	0.002	0.003	13.33	41		
10/24/05 14:00	0.02843	25.3	3.8	1.3	202.5	4.5	0.031	0.001	0.002	0.003	14.44	38		
10/24/05 15:00	0.03041	23.3	5.4	1.3	247.5	7.2	0.032	0.001	0.003	0.004	9	15.00	35	
10/24/05 16:00	0.03156	20.9	7.1	1.3	202.5	6.7	0.032	0.001	0.003	0.004	8.6	14.44	34	
10/24/05 17:00	0.03064	16.8	3.1	0.9	90	4	0.026	0.001	0.007	0.008	10	13.33	38	
10/24/05 18:00	0.03041	13.8	1.8	0.9	180	3.1	0.004	0.039	0.026	0.065	11.9	8.89	59	
10/24/05 19:00	0.03167	12.6	1	0.4	202.5	1.8	0	0.034	0.023	0.058	16.2	6.11	75	
10/24/05 20:00	0.02951	11.7	0.5	1.3	225	2.7	0	0.041	0.017	0.058	16	4.44	84	
10/24/05 21:00	0.02841	11.4	0.6	0.9	225	3.1	0	0.036	0.014	0.051	16.9	3.33	89	
10/24/05 22:00	0.02737	11.2	0.5	0.9	202.5	2.7	0	0.042	0.012	0.054	15.3	2.22	91	
10/24/05 23:00	0.0258	11.5	0.9	0.4	90	2.2	0	0.047	0.011	0.058	14.1	1.67	93	
10/25/05 0:00	0.0255	11.3	0.5	0.4	90	1.8	0	0.05	0.01	0.06	14.8	1.11	94	
10/25/05 1:00	0.02469	10.6	1.2	0.9	45	4	0	0.046	0.009	0.055	14.2	0.56	94	
10/25/05 2:00	0.02359	10.4	0.7	1.3	45	4	0	0.032	0.009	0.041	13.7	0.00	95	
10/25/05 3:00	0.02505	10.4	1	1.3	0	4	0	0.022	0.009	0.031	15.8	0.00	95	
10/25/05 4:00	0.02719	9.9	0.5	0	247.5	1.3	0	0.033	0.008	0.041	16.6	-0.56	95	
10/25/05 5:00	0.02769	10	0.8	0.9	22.5	2.2	0	0.042	0.007	0.049	14.2	-1.11	96	
10/25/05 6:00	0.02902	9.8	0.7	0.4	0	1.8	0	0.087	0.015	0.102	27.2	-1.11	96	
10/25/05 7:00	0.02493	9.7	0.4	0.4	67.5	1.3	0.001	0.154	0.014	0.168	24.3	0.56	93	
10/25/05 8:00	0.02049	10.3	0.7	0	0	0.9	0.002	0.073	0.02	0.093	23.3	5.56	77	
10/25/05 9:00	0.02096	12.3	8.3	0.4	0	1.8	0.012	0.035	0.017	0.052	19.9	8.89	63	
10/25/05 10:00	0.02029	23.4	9	0.4	0	2.2	0.024	0.004	0.006	0.01	17.4	11.11	52	
10/25/05 11:00	0.02097	28.6	3.2	0.9	0	3.6	0.027	0.003	0.005	0.008	13.3	12.22	46	
10/25/05 12:00	0.02465	29.8	3.2	0.9	0	4	0.029	0.003	0.005	0.008	12.5	13.33	42	
10/25/05 13:00	0.02548	31.1	3.6	0.9	67.5	4	0.031	0.003	0.005	0.008	14.4	14.44	38	
10/25/05 14:00	0.028	30.2	3.6	0.9	0	4.5	0.033	0.004	0.008	0.012	18.2	15.00	34	
10/25/05 15:00	0.03073	28.2	2.3	0.9	0	3.6	0.035	0.003	0.006	0.009	12.4	15.56	32	
10/25/05 16:00	0.03248	25.5	6.3	0.4	0	3.1	0.034	0.004	0.009	0.013	15.1	15.56	31	
10/25/05 17:00	0.03323	18.9	4.8	0.9	0	3.1	0.012	0.02	0.028	0.048	15.7	12.78	42	
10/25/05 18:00	0.03217	15.1	2.9	0.4	0	2.7	0.003	0.021	0.03	0.05	14.2	8.33	65	
10/25/05 19:00	0.02597	13.6	0.8	0.4	225	2.2	0	0.075	0.027	0.102	18	6.11	78	
10/25/05 20:00	0.01653	12.7	1.2	0.4	225	2.2	0	0.079	0.022	0.101	19.2	4.44	85	
10/25/05 21:00	0.01748	12.4	0.3	0.4	270	1.8	0	0.075	0.017	0.092	17.9	3.33	89	
10/25/05 22:00	0.01451	12.3	0.8	0.4	270	1.8	0	0.078	0.014	0.092	20	2.78	91	
10/25/05 23:00	0.02032	11.7	0.8	0.9	247.5	3.6	0							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL				RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)	T _A (°C)					T _{AM} (°C)		
10/22/05 9:00	95	0.44704	14.4	10.7	7.2	62	0.00	0	991.53	14.8	14.2	-0.6	
10/22/05 10:00	204	0.89408	16.7	10.8	5	46	2.06	0	991.20	16.7	15.9	-0.9	
10/22/05 11:00	212	1.34112	17.8	11.5	5.6	45	3.09	250	990.18	17.7	16.6	-1.1	
10/22/05 12:00	224	1.34112	17.8	11	4.4	41	1.54	0	989.16	17.8	17	-0.7	
10/22/05 13:00	241	0.89408	18.3	11.5	5	42	3.09	260	987.81	17.1	16.6	-0.5	
10/22/05 14:00	242	1.34112	19.4	12.2	5.6	41	3.09	240	986.79	18.2	17.5	-0.7	
10/22/05 15:00	234	0.89408	18.9	12.2	6.1	43	2.06	0	986.12	17.6	17.5	-0.2	
10/22/05 16:00	272	0.89408	18.3	12.2	6.7	47	2.06	0	985.78	17	17.1	0.1	
10/22/05 17:00	254	0.44704	16.7	12.2	8.3	58	0.00	0	986.12	15.6	16.1	0.5	
10/22/05 18:00	167	0	16.1	12.2	8.9	63	1.54	330	986.12	14.5	15.6	1.1	
10/22/05 19:00	209	0.44704	16.1	12	8.3	60	2.06	200	985.78	13.1	14.7	1.5	
10/22/05 20:00	219	0	13.9	11	8.3	69	1.54	190	985.44	12.8	14.3	1.5	
10/22/05 21:00	195	1.34112	15	11.8	8.9	67	8.23	360	987.13	14	14.3	0.3	
10/22/05 22:00	70	4.91744	11.1	8.4	5.6	69	8.23	10	989.16	9.9	10	0.1	
10/22/05 23:00	38	4.4704	10.6	7.6	4.4	66	6.69	20	990.18	9.2	9.3	0.1	
10/23/05 0:00	39	3.57632	10	7.3	4.4	68	7.20	30	990.86	8.9	9.1	0.2	
10/23/05 1:00	45	3.57632	8.9	6.8	4.4	74	6.17	10	990.86	8.4	8.5	0.2	
10/23/05 2:00	40	3.57632	8.9	6.8	4.4	74	7.20	360	991.53	7.9	8	0.2	
10/23/05 3:00	42	3.12928	8.3	6	3.3	71	5.66	10	992.21	7.5	7.6	0.2	
10/23/05 4:00	43	3.12928	8.3	5.8	2.8	69	5.66	360	992.89	7.3	7.5	0.2	
10/23/05 5:00	75	2.2352	8.3	5.8	2.8	69	6.17	10	993.23	7.2	7.4	0.2	
10/23/05 6:00	72	2.68224	8.3	6	3.3	71	4.63	10	994.24	7	7.1	0.2	
10/23/05 7:00	89	3.12928	7.8	4.9	1.1	63	5.14	360	995.94	6.4	6.5	0.1	
10/23/05 8:00	76	4.02336	7.8	4.1	-1.1	54	8.23	360	996.95	6.2	6.1	-0.1	
10/23/05 9:00	100	4.02336	8.3	4.3	-1.1	52	6.17	10	996.95	7.2	6.8	-0.4	
10/23/05 10:00	95	4.4704	10	4.9	-2.2	43	8.75	350	996.95	7.5	7	-0.5	
10/23/05 11:00	123	4.02336	9.4	4.5	-2.2	45	6.17	10	996.95	8.8	8	-0.8	
10/23/05 12:00	107	4.02336	11.7	5.4	-3.3	35	6.17	360	995.94	10.2	9.2	-0.9	
10/23/05 13:00	85	4.02336	11.7	5.4	-3.3	35	8.23	10	995.60	10.4	9.6	-0.8	
10/23/05 14:00	72	4.02336	11.7	5.5	-2.8	37	5.14	360	995.60	11.6	10.9	-0.7	
10/23/05 15:00	129	3.57632	12.8	5.8	-3.9	31	4.63	360	995.94	11.6	11.2	-0.4	
10/23/05 16:00	109	3.12928	11.7	5.4	-3.3	35	5.66	360	996.28	10.8	10.8	0.1	
10/23/05 17:00	111	2.2352	8.9	4.4	-1.7	48	4.12	350	996.95	9.2	9.8	0.6	
10/23/05 18:00	110	1.78816	7.2	3.7	-1.1	56	4.12	360	997.29	7.5	8.4	0.9	
10/23/05 19:00	255	1.34112	6.7	3.5	-1.1	58	3.09	320	997.97	6.4	7.4	1	
10/23/05 20:00	279	1.34112	7.2	3.7	-1.1	56	4.63	330	998.31	5.4	6.3	1	
10/23/05 21:00	240	1.78816	6.1	3.1	-1.1	60	3.60	320	998.65	4.5	5.4	0.9	
10/23/05 22:00	293	0.89408	6.1	3.1	-1.1	60	3.60	330	998.98	4.6	5.2	0.6	
10/23/05 23:00	282	0.44704	5.6	3	-0.6	65	4.12	330	998.65	3.6	4.5	0.9	
10/24/05 0:00	307	0.44704	5	2.7	-0.6	67	4.12	330	998.98	3.1	4	1	
10/24/05 1:00	315	1.34112	3.9	2.3	0	76	2.57	320	998.98	2.4	3.3	0.9	
10/24/05 2:00	313	1.78816	3.3	2	0	79	3.09	320	999.32	2.6	3.1	0.5	
10/24/05 3:00	313	1.34112	3.3	2	0	79	2.57	310	998.98	2.1	2.6	0.5	
10/24/05 4:00	267	0.44704	2.8	1.7	0	82	2.57	320	999.66	1.9	2.4	0.5	
10/24/05 5:00	271	1.34112	2.2	1.3	0	86	1.54	320	1000.00	1.6	2.1	0.5	
10/24/05 6:00	187	0.89408	2.2	1.3	0	86	1.54	330	1000.00	1.1	1.6	0.5	
10/24/05 7:00	210	1.78816	4.4	3	1.1	79	2.57	350	1000.68	2.8	2.8	0.1	
10/24/05 8:00	156	2.2352	7.8	5.1	1.7	66	5.14	360	1000.68	5.8	5.4	-0.4	
10/24/05 9:00	70	2.68224	10	6.3	1.7	57	4.12	20	1000.68	8.2	7.4	-0.8	
10/24/05 10:00	83	2.68224	11.1	6.8	1.7	53	3.60	340	1000.00	9.9	8.9	-1	
10/24/05 11:00	166	2.68224	12.2	7.4	1.7	49	4.12	330	999.32	11.4	10.4	-0.9	
10/24/05 12:00	168	2.68224	13.9	8	1.1	42	4.12	350	997.97	12.6	11.7	-0.9	
10/24/05 13:00	213	3.12928	15	8.3	0.6	38	6.17	340	996.95	13.5	12.7	-0.8	
10/24/05 14:00	256	2.68224	15	8.3	0.6	38	4.63	10	996.61	14.2	13.5	-0.7	
10/24/05 15:00	194	2.2352	15	8.1	0.6	36	5.14	360	996.28	14.1	13.8	-0.4	
10/24/05 16:00	209	2.2352	13.9	7.6	0	39	3.09	340	995.94	13.4	13.5	0.1	
10/24/05 17:00	174	1.34112	10.6	6.3	1.1	52	2.57	350	995.94	10.8	11.9	1.1	
10/24/05 18:00	257	0.44704	9.4	5.9	1.7	59	1.54	340	996.28	8.5	10.1	1.7	
10/24/05 19:00	209	0	8.3	5.4	1.7	63	1.54	340	996.28	8.4	9.9	1.5	
10/24/05 20:00	209	0	7.2	4.5	1.1	66	2.06	350	996.95	8	9.4	1.4	
10/24/05 21:00	218	0	6.1	4	1.1	71	2.06	310	996.95	7.6	9	1.3	
10/24/05 22:00	218	0	5	3.3	1.1	76	2.06	320	996.95	6.7	8	1.3	
10/24/05 23:00	216	0	5	3.3	1.1	76	1.54	340	996.61	5.3	7	1.6	
10/25/05 0:00	205	0	3.9	2.5	0.6	79	0.00	0	996.61	5.9	7.1	1.2	
10/25/05 1:00	203	0	3.3	2	0	79	1.54	300	996.61	4.7	6.3	1.6	
10/25/05 2:00	202	0	2.8	1.7	0	82	0.00	0	996.28	2.3	5.5	3.2	
10/25/05 3:00	199	0	2.2	1.1	-0.6	82	0.00	0	995.94	3.2	5.8	2.7	
10/25/05 4:00	189	0	0	-0.6	-1.7	88	0.00	0	996.61	0.7	2.9	2.3	
10/25/05 5:00	198	0	1.7	1	0	89	0.00	0	996.95	-0.1	1.9	2	
10/25/05 6:00	146	0	0.6	-0.3	-1.7	85	0.00	0	997.29	0.2	2.7	2.5	
10/25/05 7:00	185	0	2.8	1.9	0.6	86	0.00	0	997.97	3.7	5	1.4	
10/25/05 8:00	142	0.44704	6.1	4.4	2.2	76	2.06	0	997.97	7.8	7.3	-0.5	
10/25/05 9:00	70	0.89408	10	6.5	2.2	59	2.06	0	998.31	9.6	8.8	-0.7	
10/25/05 10:00	94	1.34112	12.2	7.4	1.7	49	2.57	350	997.97	11.4	10.5	-0.9	
10/25/05 11:00	109	1.78816	13.9	7.8	0.6	41	3.60	70	996.95	12.7	11.8	-1	
10/25/05 12:00	102	1.78816	14.4	7.8	0	38	3.60	60	995.60	13.6	12.7	-0.9	
10/25/05 13:00	131	1.78816	15	8.1	0	36	2.57	0	994.58	14.2	13.3	-0.9	
10/25/05 14:00	123	1.34112	15.6	8	-1.1	32	0.00	0	993.90	14.6	14	-0.6	
10/25/05 15:00	121	1.34112	15.6	8	-1.1	32	2.06	10	993.23	14.8	14.3	-0.4	
10/25/05 16:00	70	1.34112	15	7.9	-0.6	35	3.09	340	993.23	14.1	14.2	0.1	
10/25/05 17:00	75	0.44704	13.3	7.3	0	40	2.06	50	993.23	10.9	12.6	1.6	
10/25/05 18:00	233	0	10	6.2	1.7	57	2.06	90	993.57	9.4	11.6	2.2	
10/25/05 19:00	235	0	9.4	5.7	1.1	57	0.00	0	993.57	9	10.8	1.8	
10/25/05 20:00	208	0	7.8	4.9	1.1	63	0.00	0	993.57	8.3	10.6	2.3	
10/25/05 21:00	191	0	6.1	4.2	1.7	74	0.00	0	993.57	8.3	10.1	1.7	
10/25/05 22:00	213	0	5.6	4.1	2.2	79	0.00	0	993.57	7.9	9.4	1.5	
10/25/05 23:00	170	0	5	3.6	1.7	79	0.00	0	992.89	6.7	8.5	1.7	
10/26/05 0:00	206	0.44704	3.3	2.4	1.1	86	0.00	0	992.55	5.7	7.3	1.6	
10/26/05 1:00	172	0	2.8	1.7	0	82	0.00	0	992.55	5.8	7.1	1.3	
10/26/05 2:00	179	0	2.8	1.7	0	82	0.00	0	992.55	5.5	6.6	1.1	
10/26/05 3:00	146	0	1.7	0.8	-0.6	85	0.00	0	992.55	4.8	6.3	1.5	
10/26/05 4:00	192	0	2.2	1.3	0	86	0.00	0	992.89	4.4	5.7	1.2	
10/26/05 5:00	139	0	2.2	1.1	-0.6	82	0.00	0	992.89	3.6	4.7	1	
10/26/05 6:00	166	0	3.3	2.2	0.6	83	0.00	0	992.89	3.2	4.2	1	
10/26/05 7:00	216	0	5.6	4.1	2.2	79	2.57	150	993.57	5.2	5.3	0.1	
10/26/05 8:00	127	0.44704	9.4	6.6	3.3	66	3.60	160	993.23	7.5	7	-0.5	
10/26/05 9:00	174	1.34112	12.2	7.5	2.2	51	4.63	190	992.89	9.5	8.8	-0.7	
10/26/05 10:00													

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
10/22/05 9:00	62.6	0.7	0.9	0.3	2.6	0.3	112	22	474.3	1.71	0	984.62
10/22/05 10:00	54.4	1.2	1.6	0.4	4.2	0.6	155.2	21.6	607.1	2.19	0	984
10/22/05 11:00	49.3	2.7	3.2	0.5	5.9	0.8	184	13.8	684.4	2.46	0	983.34
10/22/05 12:00	49.6	3.1	3.8	0.7	7	0.7	191.7	13.2	449.3	1.62	0	982.4
10/22/05 13:00	50.8	3.1	3.7	0.6	5.8	0.7	203.3	11	337	1.21	0	981.35
10/22/05 14:00	47.8	2.6	3.2	0.5	6	0.7	199.5	15.1	400.3	1.44	0	980.17
10/22/05 15:00	50.7	1.6	2.1	0.5	4.7	0.5	195.5	13.7	149.8	0.54	0	979.57
10/22/05 16:00	54.6	1.3	1.9	0.6	3.5	0.3	181.9	9.1	61.8	0.22	0	979.18
10/22/05 17:00	60.6	0.2	1.2	1	2.3	0.2	189.5	5.9	7.9	0.03	0	979.15
10/22/05 18:00	67.8	0	0.9	0.9	2	0.1	212.3	5	-0.9	0	0	979.25
10/22/05 19:00	73.8	0.2	1.4	1.1	2.5	0.2	187.8	5.3	-1	0	0	978.68
10/22/05 20:00	77.6	0.3	1.5	1.2	2.3	0.2	206.7	8.3	-1	0	0	978.62
10/22/05 21:00	69.4	3.3	4.3	1	10.4	1	243.1	15.9	-1	0	0	980.34
10/22/05 22:00	73.8	4.7	5.7	1	11.3	1.2	14.9	13.1	-1	0	0	982.31
10/22/05 23:00	74.1	3.2	3.9	0.7	8.6	1	18.2	12.5	-1	0	0	983.06
10/23/05 0:00	74.2	3.2	3.9	0.7	8.2	1	20.3	14.1	-1	0	0	983.76
10/23/05 1:00	78.1	3.4	4.3	0.9	8.1	1	9.9	12.6	-1	0	0	984.18
10/23/05 2:00	74.8	3.8	4.6	0.9	9.8	1.2	7.7	13.2	-1	0	0	984.31
10/23/05 3:00	73.2	3.2	4.1	0.9	8.5	1.1	5.9	13	-1	0	0	984.92
10/23/05 4:00	74	3.1	3.9	0.8	7	1	120.9	12.5	-1	0	0	985.8
10/23/05 5:00	76	2.7	3.5	0.8	7	0.8	180.9	12.5	-1	0	0	986.41
10/23/05 6:00	75	3.8	4.8	1.1	8.9	1.1	296.8	12.5	1.4	0.01	0	987.03
10/23/05 7:00	69.8	3.8	4.7	1	9.8	1.2	209.3	12.5	32.8	0.12	0	988.34
10/23/05 8:00	61.7	4	5	1	8.8	1.2	151.5	14.9	107.3	0.39	0	989.55
10/23/05 9:00	54.2	4.1	5.2	1.1	10	1.3	293.3	13.8	300.6	1.08	0	990.18
10/23/05 10:00	51.8	4	5	1	10	1.2	263.9	14.1	320.2	1.15	0	990.38
10/23/05 11:00	46	3.9	4.7	0.9	9.8	1.2	199.6	15.9	563	2.03	0	989.92
10/23/05 12:00	39.3	4.7	5.6	1	10.8	1.4	67.2	16.9	675.3	2.43	0	989.32
10/23/05 13:00	40.5	4.3	5.2	1	9.1	1.2	125.4	15.9	509	1.83	0	988.84
10/23/05 14:00	35.7	3.9	4.8	0.9	9.8	1.3	94.7	17.4	528.9	1.9	0	988.54
10/23/05 15:00	33.2	3.9	4.9	1	9.4	1.2	206.8	16.1	373	1.34	0	988.92
10/23/05 16:00	36	3.6	4.5	0.9	8.9	1.2	206.8	13.2	185.8	0.67	0	989.24
10/23/05 17:00	43.2	2.3	3.1	0.8	6.2	0.7	236	12.1	22.5	0.08	0	989.71
10/23/05 18:00	51.3	1.4	2.2	0.9	4.1	0.4	317	10.4	-1	0	0	990.3
10/23/05 19:00	56.6	0.7	1.7	1.1	3.6	0.4	300.4	12.7	-1	0	0	990.67
10/23/05 20:00	62.5	0.4	1.5	1.1	3.1	0.4	291.3	13.5	-1	0	0	991.16
10/23/05 21:00	67.7	0.6	1.7	1	3.4	0.4	292	14	-1	0	0	991.69
10/23/05 22:00	68.8	0.8	1.7	1	3.6	0.5	290.8	14.6	-1	0	0	991.84
10/23/05 23:00	74.1	0.4	1.5	1.1	2.9	0.4	286.7	13	-1	0	0	991.88
10/24/05 0:00	78	0.5	1.5	1	2.9	0.4	282.1	11.7	-1	0	0	991.86
10/24/05 1:00	82.4	0.4	1.5	1.1	3.2	0.4	287.1	12.4	-1	0	0	991.93
10/24/05 2:00	83.2	1.6	2.5	0.9	4.7	0.6	299.9	12.2	-1	0	0	991.99
10/24/05 3:00	85.3	1.7	2.6	0.9	5	0.7	299.8	13	-1	0	0	991.93
10/24/05 4:00	86.3	1.7	2.6	0.9	4.6	0.6	301.5	12.5	-1	0	0	992.19
10/24/05 5:00	88.8	1.4	2.2	0.8	4.5	0.5	291.8	14	-1	0	0	992.54
10/24/05 6:00	90.9	1.1	2	0.9	3.9	0.6	294.1	13.3	4.8	0.02	0	992.59
10/24/05 7:00	86.3	1.9	2.6	0.7	4.5	0.7	300.5	13.4	121.8	0.44	0	993.05
10/24/05 8:00	74.7	3.1	3.8	0.7	7.3	0.9	290.1	13.6	313.3	1.13	0	993.38
10/24/05 9:00	65.1	3.1	3.8	0.7	6.7	0.8	208.3	15	475.9	1.71	0	993.32
10/24/05 10:00	57.5	2.4	2.9	0.5	6.5	0.9	257.7	22.2	600.8	2.16	0	992.96
10/24/05 11:00	50.8	2.4	3	0.6	6.6	1	218.1	22.9	673.9	2.43	0	992.43
10/24/05 12:00	45.2	2.3	2.8	0.5	7	1.1	286.3	28.3	684.3	2.46	0	991.34
10/24/05 13:00	41	2.5	3.1	0.6	6	1	269.4	22.6	630.7	2.27	0	990.25
10/24/05 14:00	37.7	2.4	3	0.5	6.6	1	266.8	21.9	520.9	1.88	0	989.64
10/24/05 15:00	35.7	2.4	3	0.6	7.2	1	299.4	17.9	366	1.32	0	989.4
10/24/05 16:00	36.6	2	2.7	0.7	6.6	0.8	280.8	15	182.8	0.66	0	989.22
10/24/05 17:00	46.3	0.4	1.4	0.9	3.7	0.3	310.3	11.1	20.8	0.07	0	989.13
10/24/05 18:00	56.3	0.4	1.6	1.3	2.9	0.2	317.6	7.2	-0.9	0	0	989.42
10/24/05 19:00	55.3	1.2	2.3	1.1	3.6	0.3	324.6	8.8	-1	0	0	989.48
10/24/05 20:00	57.3	1.4	2.3	0.9	4	0.4	95.2	10.1	-1	0	0	989.61
10/24/05 21:00	59.2	1.3	2	0.8	3.9	0.4	8.3	9.7	-1	0	0	989.94
10/24/05 22:00	62.4	1.1	1.9	0.8	3.2	0.3	206.6	9.7	-1	0	0	989.81
10/24/05 23:00	69.2	0.8	1.8	1	3.3	0.2	263.9	7.4	-1	0	0	989.55
10/25/05 0:00	65.5	1.1	1.8	0.7	3.5	0.3	8.3	8.5	-1	0	0	989.45
10/25/05 1:00	69.9	0.7	1.4	0.7	2.4	0.2	238.1	7.6	-1	0	0	989.47
10/25/05 2:00	84.2	0.2	1.3	1.1	2.4	0.2	101.9	5.8	-1	0	0	989.25
10/25/05 3:00	79.1	0.6	1.5	0.9	2.4	0.2	29.3	4.3	-1	0	0	989
10/25/05 4:00	89.6	0.1	1	0.8	2.4	0.2	285.8	11.8	-1	0	0	989.42
10/25/05 5:00	93.3	0.2	1	0.8	2.7	0.3	279	10.1	-1	0	0	989.61
10/25/05 6:00	93.1	0.4	1.4	1	2.8	0.2	296.7	5	4.7	0.02	0	989.72
10/25/05 7:00	85	0.6	1.2	0.8	2.2	0.2	174.8	7.7	127.2	0.46	0	990.31
10/25/05 8:00	66.5	0.6	0.8	0.2	2.4	0.2	182.3	9.4	312.8	1.13	0	990.93
10/25/05 9:00	60.3	0.8	1	0.3	2.6	0.4	63	25.5	477.9	1.72	0	991.06
10/25/05 10:00	49.4	1.6	1	0.3	4.4	0.6	93.7	22.7	601.9	2.17	0	990.9
10/25/05 11:00	45.2	1.5	1.8	0.3	4.5	0.7	214.4	26.6	668.8	2.41	0	990.15
10/25/05 12:00	40.8	1.9	2.3	0.4	5.6	0.9	51.9	28.1	675.2	2.43	0	988.97
10/25/05 13:00	37.2	1.8	2.2	0.4	5.3	0.8	68.4	30	623.5	2.24	0	987.84
10/25/05 14:00	34.4	1.5	1.9	0.4	4.9	0.7	73.9	25.9	513.6	1.85	0	987.09
10/25/05 15:00	33.7	1.3	1.7	0.4	4.1	0.6	57	20.9	357.3	1.29	0	986.64
10/25/05 16:00	35.5	0.8	1.3	0.6	2.7	0.3	73.3	14.9	174.8	0.63	0	986.35
10/25/05 17:00	48.2	0.1	1	0.8	2	0.2	89.8	6	19.3	0.07	0	986.27
10/25/05 18:00	57.4	0	1.1	1.1	1.6	0.1	94	3.6	-1	0	0	986.53
10/25/05 19:00	58	0	1.2	1.1	1.9	0.2	97.6	5.5	-1	0	0	986.54
10/25/05 20:00	60	0.1	1.2	1.1	1.8	0.2	94.7	3.6	-1	0	0	986.55
10/25/05 21:00	60.2	0	1.3	1.3	1.8	0.1	93.8	3.5	-1	0	0	986.49
10/25/05 22:00	62.2	0.1	1.4	1.3	2.3	0.1	94	4.7	-1	0	0	986.33
10/25/05 23:00	67	0.5	1.9	1.4	3	0.2	107.4	5.7	-1	0	0	985.91
10/26/05 0:00	72.3	0.3	1.7	1.4	2.7	0.2	96.1	7.3	-1	0	0	985.62
10/26/05 1:00	72.4	1.3	2.4	1.1	4.1	0.4	123.9	8.2	-1	0	0	985.39
10/26/05 2:00	72.7	0.6	1.7	1	3.8	0.4	162.3	10.3	-1	0	0	985.34
10/26/05 3:00	74.4	0	1.1	1.1	2.2	0.2	148.2	9.4	-1	0	0	985.32
10/26/05 4:00	78.3	0.2	1.3	1.1	2.9	0.2	124.3	9.9	-1	0	0	985.6
10/26/05 5:00	84.1	0.1	1	0.9	1.8	0.2	105.9	9.1	-1	0	0	985.72
10/26/05 6:00	85.8	0.2	1.3	1.1	2.7	0.3	126.5	11.5	4.7	0.02	0	985.72
10/26/05 7:00	79.1	1.1	1.7	0.6	4	0.5	154.7	13.4	112.3	0.4	0	985.96
10/26/05 8:00	71.6	2	2.4	0.4	4.6	0.6	148.5	14.3	308.5	1.11	0	986.19
10/26/05 9:00	65.8	1.9	2.2	0.3	5.4	0.6	153.8	16	401	1.44	0	985.99
10/26/05 10:00	55.6	2.1	2.5	0.4	4.6	0.7	154.8	16.8	578.1	2.08	0	985.79
10/26/05 11:00	45.4	1.8	2.3	0.4	4.7	0.8	120.5	22.1	595.9	2.15	0	985.31
10/26/05 12:00	37.3	2.6										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,2M} (°C)	
10/27/05 0:00	44	0.89408	12.2	8	3.3	55	1.54	40	993.57	10.4	10.7	0.3
10/27/05 1:00	71	0.89408	10.6	7.7	4.4	66	3.09	330	994.24	9.6	9.9	0.2
10/27/05 2:00	54	0.89408	9.4	7	4.4	71	1.54	340	994.58	8.9	9.2	0.4
10/27/05 3:00	114	0.44704	9.4	7	4.4	71	2.06	350	994.58	8.6	9	0.3
10/27/05 4:00	46	0.89408	6.9	6.8	4.4	74	2.57	350	995.26	8.3	8.5	0.2
10/27/05 5:00	33	1.34112	8.3	6.5	4.4	77	2.57	350	995.94	7	7.5	0.4
10/27/05 6:00	49	0.89408	6.1	4.8	3.3	82	1.54	350	996.28	5.8	6.3	0.5
10/27/05 7:00	47	0.89408	7.8	5.8	3.3	73	1.54	350	996.95	6.3	6.4	0.1
10/27/05 8:00	58	0.89408	10.6	7.4	3.9	64	0.00	0	997.63	8.4	7.9	-0.4
10/27/05 9:00	70	0.89408	13.9	9.3	4.4	53	1.54	360	997.63	11.7	11	-0.8
10/27/05 10:00	81	0.89408	17.8	11	4.4	41	2.57	40	997.63	14.4	13.6	-0.8
10/27/05 11:00	96	1.34112	18.3	11.3	4.4	40	2.06	40	996.95	16.1	15.2	-0.9
10/27/05 12:00	100	1.34112	20	11.8	3.9	35	3.60	80	996.28	17.6	16.7	-0.9
10/27/05 13:00	116	1.34112	20.6	11.8	3.3	32	2.57	350	995.60	18.4	17.5	-0.8
10/27/05 14:00	123	1.34112	20.6	11.8	3.3	32	2.06	350	995.26	18.8	18.1	-0.7
10/27/05 15:00	123	1.34112	20.6	11.8	3.3	32	1.54	350	995.26	18.6	18.3	-0.3
10/27/05 16:00	59	1.78816	18.9	11.1	3.3	36	2.57	20	995.26	17.8	18	0.2
10/27/05 17:00	42	0.89408	15.6	9.2	2.2	41	2.57	30	995.60	14.6	16.6	2
10/27/05 18:00	227	0	15.6	9	1.7	39	2.57	50	996.28	12.3	15.9	3.6
10/27/05 19:00	224	0	13.3	8.3	2.8	49	0.00	0	996.95	13	14.7	1.6
10/27/05 20:00	146	0.44704	8.3	6.3	3.9	74	1.54	360	997.29	11.9	13.4	1.6
10/27/05 21:00	224	0	6.9	6.6	3.9	71	1.54	350	997.63	10.5	12.6	2
10/27/05 22:00	183	0	7.8	6	3.9	77	1.54	330	997.63	10.3	11.6	1.3
10/27/05 23:00	207	0	8.3	6	3.3	71	0.00	0	997.63	9.7	10.9	1.2
10/28/05 0:00	191	0	7.2	5.4	3.3	77	1.54	300	997.97	9.1	10.4	1.4
10/28/05 1:00	183	0	6.1	4.6	2.8	80	0.00	0	998.31	8.2	9.4	1.2
10/28/05 2:00	171	0	5	3.8	2.2	82	1.54	120	998.31	7.9	9	1.1
10/28/05 3:00	144	0	6.1	4.6	2.8	80	1.54	150	998.31	6.8	7.8	1
10/28/05 4:00	187	0	6.7	5.2	3.3	79	0.00	0	998.98	6.6	7.7	1.1
10/28/05 5:00	161	0	6.1	5.1	3.9	86	2.06	140	999.32	6.4	7.3	0.8
10/28/05 6:00	225	0	6.7	5.4	3.9	83	2.06	170	999.66	6.6	7.3	0.7
10/28/05 7:00	175	0	9.4	7.6	5.6	77	2.57	170	1000.34	8.3	8.4	0.1
10/28/05 8:00	189	1.78816	12.8	9	5	59	4.63	180	1000.68	10.3	10	-0.3
10/28/05 9:00	197	1.78816	15.6	10.1	4.4	48	5.14	180	1000.68	13.1	12.4	-0.7
10/28/05 10:00	203	1.78816	18.3	11.5	5	42	5.66	180	1000.34	16.5	15.6	-0.9
10/28/05 11:00	199	1.78816	19.4	12	5	39	4.63	190	999.66	18.7	17.7	-1
10/28/05 12:00	195	1.78816	20.6	12.5	5	36	5.66	200	998.31	20	19	-1.1
10/28/05 13:00	190	1.78816	21.7	12.9	5	34	3.09	180	997.63	21.1	20.1	-1
10/28/05 14:00	198	1.78816	22.2	13.1	5	33	4.12	180	996.95	21.4	20.7	-0.7
10/28/05 15:00	193	1.78816	21.7	12.7	4.4	32	5.14	180	996.95	21.2	20.9	-0.3
10/28/05 16:00	179	1.78816	21.1	12.5	4.4	34	4.12	190	996.61	20.1	20.3	0.2
10/28/05 17:00	176	0.89408	17.2	11	5	45	3.60	140	996.95	17.3	18.7	1.4
10/28/05 18:00	167	0.44704	16.7	10.8	5	46	3.09	160	997.29	16.2	17.4	1.2
10/28/05 19:00	185	0.44704	15.6	10	4.4	48	3.09	160	997.63	15.6	16.5	0.9
10/28/05 20:00	187	0.89408	16.1	10.5	5	48	4.63	170	998.31	14.7	15.6	0.9
10/28/05 21:00	185	1.34112	15.6	10.3	5	50	5.14	170	998.31	14.3	14.9	0.7
10/28/05 22:00	186	1.34112	14.4	10	5.6	56	4.63	160	998.31	13.4	14.1	0.6
10/28/05 23:00	192	1.34112	13.9	9.8	5.6	58	4.63	160	998.31	13.1	13.6	0.6
10/29/05 0:00	191	0.89408	12.8	9.2	5.6	62	3.60	160	998.31	12.1	12.8	0.6
10/29/05 1:00	197	1.34112	11.7	8.5	5	64	3.60	170	998.31	11.6	12.1	0.6
10/29/05 2:00	197	1.34112	11.1	8.2	5	66	3.60	180	998.65	11	11.5	0.5
10/29/05 3:00	200	1.34112	10.6	7.9	5	69	4.63	180	998.65	10.5	11	0.5
10/29/05 4:00	191	1.78816	10	7.4	4.4	68	3.09	180	998.98	10.2	10.6	0.4
10/29/05 5:00	165	0.89408	9.4	7.3	5	74	3.09	190	999.32	10.6	10.7	0.2
10/29/05 6:00	180	0.44704	8.9	6.8	4.4	74	2.57	170	999.66	10.4	10.6	0.2
10/29/05 7:00	195	0.89408	10.6	7.9	5	69	3.09	170	1000.00	10.4	10.4	0
10/29/05 8:00	200	1.34112	11.7	8.5	5	64	4.12	190	1000.68	11.4	11.2	-0.2
10/29/05 9:00	202	1.78816	14.4	9.7	5	54	5.66	170	1000.34	13	12.5	-0.5
10/29/05 10:00	202	2.68224	17.2	10.6	3.9	41	7.20	190	999.66	15.5	14.7	-0.9
10/29/05 11:00	195	2.2352	18.9	10.7	2.2	33	6.69	170	998.31	17.2	16.3	-1
10/29/05 12:00	191	2.68224	20	11.4	2.8	32	5.66	190	997.29	18.9	17.9	-1
10/29/05 13:00	189	2.68224	20.6	11.4	2.2	30	6.69	190	995.94	19.8	18.9	-0.8
10/29/05 14:00	186	2.68224	21.1	11.3	1.1	27	7.72	180	995.60	19.3	19	-0.4
10/29/05 15:00	179	2.68224	20.6	11	1.1	27	6.69	160	994.92	19.9	19.6	-0.3
10/29/05 16:00	178	2.68224	19.4	10.1	0	27	7.20	160	994.58	18.8	19	0.2
10/29/05 17:00	173	2.2352	18.3	9.8	0.6	31	4.12	170	994.92	17.1	17.6	0.5
10/29/05 18:00	182	1.78816	17.8	9.8	1.1	33	5.66	180	995.26	16.5	17	0.6
10/29/05 19:00	185	1.78816	17.2	9.3	0.6	33	4.12	170	995.26	15.7	16.3	0.6
10/29/05 20:00	194	2.2352	16.7	9.1	0.6	34	5.14	180	995.26	15.1	15.7	0.6
10/29/05 21:00	197	1.78816	16.1	8.8	0.6	35	7.20	180	995.26	14.7	15.2	0.5
10/29/05 22:00	195	2.68224	16.1	9	1.1	36	7.20	180	995.26	14.7	15.1	0.4
10/29/05 23:00	196	2.2352	14.4	8.4	1.7	42	6.17	170	995.26	14.6	14.9	0.3
10/30/05 0:00	194	2.2352	14.4	8.6	2.2	44	4.63	160	995.26	14	14.3	0.3
10/30/05 1:00	184	1.78816	13.9	8.6	2.8	47	3.60	150	995.26	13.3	13.7	0.4
10/30/05 2:00	178	1.78816	12.8	8.5	3.9	55	3.09	160	995.26	13	13.3	0.3
10/30/05 3:00	191	1.78816	12.2	8.2	3.9	57	3.09	170	995.26	13.1	13.4	0.2
10/30/05 4:00	191	1.78816	12.2	9	5.6	64	4.12	170	994.92	12.9	13.1	0.2
10/30/05 5:00	195	2.2352	13.3	9.2	5	57	5.14	170	994.92	12.8	12.9	0.1
10/30/05 6:00	196	2.2352	13.3	9	4.4	55	6.69	180	994.92	13.3	13.5	0.1
10/30/05 7:00	200	2.68224	14.4	9.7	5	54	6.69	180	995.26	13.7	13.9	0.1
10/30/05 8:00	194	2.2352	15.6	10.3	5	50	4.12	170	995.60	13.2	13.4	0.2
10/30/05 9:00	185	1.34112	15	11.8	8.9	67	4.12	160	995.26	14.7	14.5	-0.3
10/30/05 10:00	193	1.34112	18.9	13.4	8.9	52	6.69	200	994.92	16.1	15.7	-0.4
10/30/05 11:00	213	1.34112	20	14.1	9.4	51	2.57	200	994.24	17.8	17.5	-0.3
10/30/05 12:00	208	1.78816	20.6	14.6	10	51	6.17	200	993.23	18.4	18.2	-0.2
10/30/05 13:00	206	1.78816	21.7	15.4	10.6	49	6.17	200	992.55	19.2	18.9	-0.3
10/30/05 14:00	210	1.34112	21.1	15.4	11.1	53	6.17	200	992.55	19.4	19.3	0
10/30/05 15:00	210	0.89408	20.6	15.5	11.7	57	2.57	170	992.21	19.2	19.4	0.1
10/30/05 16:00	249	0	20.6	15.5	11.7	57	1.54	170	992.55	18.8	19	0.3
10/30/05 17:00	208	0	20	15.8	12.8	63	1.54	140	992.55	17.9	18.7	0.7
10/30/05 18:00	176	0	18.9	15.4	12.8	68	0.00	0	992.55	17.1	18.5	1.4
10/30/05 19:00	142	0	18.9	15.6	13.3	70	1.54	150	992.89	16.7	18	1.3
10/30/05 20:00	220	0.44704	18.9	14.8	11.7	63	2.06	150	992.89	16.2	17.5	1.3
10/30/05 21:00	222	0.44704	17.8	14.6	12.2	70	2.06	140	992.89	16.7	17.9	1.3
10/30/05 22:00	201	0	17.8	14.4	11.7	68	3.60	160	992.55	15.7		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
10/27/05 0:00	55	1.8	2.3	0.5	3.9	0.4	44.1	10.2	-1	0	0	986.86
10/27/05 1:00	57.4	2.4	3	0.6	4.8	0.5	44.8	9.2	-1	0	0	987.12
10/27/05 2:00	60.4	2.2	2.8	0.6	4.3	0.4	48.7	7.7	-1	0	0	987.38
10/27/05 3:00	62.6	2	2.6	0.6	3.5	0.3	48.5	7.3	-1	0	0	987.6
10/27/05 4:00	63.9	2	2.6	0.6	3.7	0.3	47.9	7.8	-1	0	0	988.01
10/27/05 5:00	68.2	2.2	2.8	0.7	4.6	0.4	55.6	8.6	-1	0	0	988.54
10/27/05 6:00	74.2	2	2.7	0.7	4.3	0.4	53.5	8.2	3.2	0.01	0	988.96
10/27/05 7:00	73.5	2.2	2.7	0.5	4.1	0.4	55.6	8.7	99.3	0.36	0	989.57
10/27/05 8:00	69.3	2	2.3	0.3	3.8	0.4	50.6	10.2	274.3	0.99	0	990.3
10/27/05 9:00	60.9	1.3	1.6	0.3	3.2	0.4	77.8	15.5	438.5	1.58	0	990.66
10/27/05 10:00	51.1	1.9	2.2	0.3	4.6	0.5	59	17.8	562.3	2.02	0	990.77
10/27/05 11:00	42.3	2.3	2.8	0.5	4.9	0.7	62.7	18.3	632.2	2.28	0	990.49
10/27/05 12:00	36.5	1.9	2.3	0.4	5.1	0.7	76.7	22.3	643.8	2.32	0	989.87
10/27/05 13:00	34.4	1.4	1.8	0.4	4.4	0.7	83.8	29.5	588.3	2.12	0	989.17
10/27/05 14:00	33.2	1.6	2.1	0.5	4.2	0.7	80.9	21.6	479.5	1.73	0	988.73
10/27/05 15:00	32.8	1.4	1.9	0.5	4.3	0.6	91.7	20.5	328.4	1.18	0	988.61
10/27/05 16:00	34.8	0.5	1.2	0.6	3	0.3	78	15.5	153.9	0.55	0	988.63
10/27/05 17:00	46.8	0	0.5	0.5	1.2	0.1	77.6	4.4	14.3	0.05	0	988.91
10/27/05 18:00	53.2	0.5	1.1	0.6	1.9	0.1	37.5	5.8	-1	0	0	989.4
10/27/05 19:00	45.2	1.1	1.7	0.6	2.8	0.2	28.9	6.1	-1	0	0	989.83
10/27/05 20:00	46.8	1	1.7	0.7	3.2	0.3	44.4	8	-1	0	0	990.27
10/27/05 21:00	52.1	0.9	1.6	0.7	2.4	0.2	44.8	6.1	-1	0	0	990.66
10/27/05 22:00	54	1.3	2	0.7	3.2	0.3	50.7	8.2	-1	0	0	990.73
10/27/05 23:00	58.3	1.4	2.2	0.7	3.7	0.3	58.7	7	-1	0	0	990.68
10/28/05 0:00	63.3	1.1	2	0.9	3.1	0.3	74.5	6.7	-1	0	0	990.7
10/28/05 1:00	67.2	0.1	1.3	1.2	2.5	0.3	97.4	9.9	-1	0	0	990.95
10/28/05 2:00	69	0.6	1.3	0.7	3.1	0.3	106.7	11.8	-1	0	0	990.97
10/28/05 3:00	74.6	0.6	1.6	1	2.5	0.2	108.2	8.9	-1	0	0	991.06
10/28/05 4:00	77.3	0.3	1.3	1	2.5	0.2	136	8.9	-1	0	0	991.31
10/28/05 5:00	82.2	0.9	1.6	0.7	2.9	0.4	137.3	9.8	-1	0	0	991.8
10/28/05 6:00	85.4	0.4	1.3	0.9	3	0.4	164.1	13.9	3.3	0.01	0	992.19
10/28/05 7:00	81.5	1.3	1.8	0.5	4.1	0.5	166.9	14.7	99	0.36	0	992.55
10/28/05 8:00	72.8	3	3.5	0.5	6.4	0.7	156.7	11.9	269.7	0.97	0	993.16
10/28/05 9:00	63.3	3.2	3.8	0.6	7.1	0.8	159.8	12.1	430.5	1.55	0	993.23
10/28/05 10:00	50.1	3.6	4.3	0.7	7.2	0.9	168.6	12.5	558.3	2.01	0	993.03
10/28/05 11:00	44.1	3.3	4	0.7	7.6	0.9	171.9	13.2	629.8	2.27	0	992.49
10/28/05 12:00	40.3	3.1	3.8	0.6	6.5	0.8	161.5	15	630.8	2.27	0	991.57
10/28/05 13:00	37.2	3.2	3.9	0.7	7.7	0.9	155.4	15	576.9	2.08	0	990.65
10/28/05 14:00	35.5	3.1	3.7	0.6	7.2	0.9	154.8	13	470.4	1.69	0	990.13
10/28/05 15:00	36.1	2.7	3.1	0.5	6.1	0.9	162.8	15.6	313.4	1.13	0	989.91
10/28/05 16:00	37.8	2.2	2.7	0.5	5	0.7	163.4	13.6	144.4	0.52	0	989.78
10/28/05 17:00	47.2	0.9	1.9	0.9	3.4	0.3	154.8	8.5	11.8	0.04	0	989.69
10/28/05 18:00	49.8	1.7	2.6	0.9	5.2	0.4	144.4	10.1	-1	0	0	990.11
10/28/05 19:00	50	2.1	2.9	0.8	5.4	0.6	161.5	12.2	-1	0	0	990.43
10/28/05 20:00	53.3	2.1	2.8	0.7	5	0.6	168.2	12.1	-1	0	0	990.76
10/28/05 21:00	54.2	2.7	3.4	0.7	6.2	0.8	171.4	11.8	-1	0	0	991.05
10/28/05 22:00	58.5	2.6	3.3	0.7	6.1	0.7	173.8	11.9	-1	0	0	991.05
10/28/05 23:00	60.9	2.7	3.5	0.8	6.9	0.7	174.4	12.1	-1	0	0	990.95
10/29/05 0:00	64.5	2.5	3.2	0.7	6.6	0.6	173.9	11.1	-1	0	0	990.91
10/29/05 1:00	64.8	2.9	3.7	0.8	7.1	0.7	182.6	10.1	-1	0	0	991.06
10/29/05 2:00	65.8	3.2	4	0.9	6.8	0.8	157.2	9.9	-1	0	0	991.1
10/29/05 3:00	66.4	3.1	3.9	0.9	6.4	0.7	154.8	9.9	-1	0	0	991.13
10/29/05 4:00	66.9	2.9	3.7	0.8	5.8	0.7	156.8	9.5	-1	0	0	991.44
10/29/05 5:00	65.4	3.3	4	0.7	7.3	0.7	156.4	9.7	-1	0	0	991.75
10/29/05 6:00	65	3.6	4.5	0.9	7.2	0.8	157.2	9.4	3.7	0.01	0	991.9
10/29/05 7:00	66	3.6	4.3	0.8	6.7	0.7	153.1	10.4	71.3	0.26	0	992.34
10/29/05 8:00	61.9	3.9	4.7	0.8	8.5	1	185.4	11.2	130.7	0.47	0	992.87
10/29/05 9:00	55.2	4.4	5.4	1	9.7	1.2	161.8	11.7	355.8	1.28	0	992.81
10/29/05 10:00	47.2	4.2	5.1	0.9	10.3	1	156.7	13.9	550.1	1.98	0	992.5
10/29/05 11:00	41.3	4.2	5	0.7	9.1	1.1	180.8	15	616.2	2.22	0	991.61
10/29/05 12:00	36.7	3.9	4.7	0.7	8.4	1.2	173.4	15.2	644.6	2.32	0	990.33
10/29/05 13:00	33.5	4.3	5	0.7	8.9	1.1	143.7	15.2	578.8	2.08	0	989.15
10/29/05 14:00	32.9	3.9	4.7	0.8	8.6	1.2	171.1	13.4	288.3	1.04	0	988.63
10/29/05 15:00	30.9	3.7	4.4	0.7	8	1	167.8	15.8	283.2	1.02	0	988
10/29/05 16:00	30.3	3.4	4	0.7	8.4	1	161.7	13.8	115.2	0.41	0	987.55
10/29/05 17:00	33.7	2.7	3.4	0.7	6.5	0.8	160.8	13.2	12.7	0.05	0	987.52
10/29/05 18:00	33.8	3.1	3.9	0.8	7.4	0.9	178.1	11.4	-1	0	0	987.99
10/29/05 19:00	36.6	3.1	3.9	0.8	8.4	0.9	173.9	12.7	-1	0	0	987.82
10/29/05 20:00	38.8	3.4	4.3	0.9	7.8	0.7	156.8	10.1	-1	0	0	988.04
10/29/05 21:00	38.7	3.5	4.3	0.8	7.5	0.9	152.4	10.4	-1	0	0	987.98
10/29/05 22:00	38.8	4	4.8	0.8	9.2	1	153.1	11.4	-1	0	0	987.81
10/29/05 23:00	40.3	5.3	6.3	1.1	10.7	1.3	153.8	11.2	-1	0	0	987.56
10/30/05 0:00	43.9	4.2	5.3	1.1	10.2	1.1	159.5	11	-1	0	0	987.94
10/30/05 1:00	49.5	3.4	4.2	0.8	8.1	0.9	149.7	11.4	-1	0	0	988.18
10/30/05 2:00	52.4	3.6	4.4	0.8	8.1	0.9	179.5	10.8	-1	0	0	988.13
10/30/05 3:00	51.8	4	4.9	0.9	8.7	1	177.8	11.2	-1	0	0	987.7
10/30/05 4:00	54.3	3.9	4.7	0.7	8.4	1	175.6	11.3	-1	0	0	987.53
10/30/05 5:00	57.3	4.1	4.9	0.8	8	1	173.6	11.2	-1	0	0	987.43
10/30/05 6:00	55.6	4.3	5.1	0.8	9.8	1.1	180.3	10.6	0	0	0	987.48
10/30/05 7:00	55.3	3.9	4.7	0.9	9	1	158.8	11.4	16.6	0.06	0	987.95
10/30/05 8:00	63.3	3.3	4	0.7	7.2	0.8	150.7	10.9	24.8	0.09	0	988.3
10/30/05 9:00	58.8	3.7	4.4	0.7	8.2	0.9	181.5	11.8	202.8	0.73	0	988.07
10/30/05 10:00	56.8	3.4	4.2	0.8	8.2	0.8	160.5	11.5	225.5	0.81	0	988.07
10/30/05 11:00	56.4	3.6	4.7	1.1	9	0.9	171.6	11.9	213.2	0.77	0	987.55
10/30/05 12:00	56.3	3.1	4	0.9	6.7	0.7	172.8	10.9	160.7	0.58	0	986.75
10/30/05 13:00	57.3	3.5	4.5	1	8.1	0.8	188.3	11.5	184.8	0.67	0	985.8
10/30/05 14:00	58.6	1.9	2.6	0.7	5.5	0.6	176.9	10.4	88.4	0.32	0	985.33
10/30/05 15:00	60.7	1.4	2.2	0.8	4.3	0.4	179.4	8.6	47.3	0.17	0	985.32
10/30/05 16:00	65.5	0.9	1.9	0.9	3.1	0.3	194.7	8	16	0.06	0	985.42
10/30/05 17:00	72.3	0.1	0.7	0.6	2.2	0.2	212.9	5.9	1.2	0	0	985.48
10/30/05 18:00	78.1	0	0.1	0.1	0.7	0.1	175.1	1	-1	0	0	985.9
10/30/05 19:00	79.3	0	0.7	0.7	1.3	0.1	91.8	5.1	-1	0	0	986.07
10/30/05 20:00	77.9	0.3	1.4	1.1	3.2	0.3	98.8	7.2	-1	0	0	986.02
10/30/05 21:00	74.8	0.2	1.6	1.4	2.7	0.3	152.8	8.3	-1	0	0	986.08
10/30/05 22:00	79.1	0	0.9	0.9	1.8	0.1	172.3	8.5	-1	0	0	985.89
10/30/05 23:00	81.8	0	1	1	2.1	0.2	151.7	8.7	-1	0	0	985.73
10/31/05 0:00	79.8	0.4	1.5	1.2	3	0.3	164.4	8.9	-1	0	0	985.32
10/31/05 1:00	79.3	1.2	2.2	1	4.1	0.4	145.6	8.8	-1	0	0	984.68
10/31/05 2:00	79.1	1.7	2.6	0.9	4.8	0.5	139.8	10.3	-1	0	0	983.93
10/31/05 3:00												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127									RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)		
10/31/05 15:00	0.02627	11.2	0.5	4.5	225	12.1	0.025	0.003	0.006	0.008	9.6	11.67	67	
10/31/05 16:00	0.0267	11.1	0.9	3.6	225	12.5	0.022	0.002	0.006	0.008	9.5	11.11	73	
10/31/05 17:00	0.02309	11.2	0.8	2.7	225	6.3	0.016	0.003	0.01	0.013	12.8	11.11	75	
10/31/05 18:00	0.02261	11.8	0.6	2.7	225	6.3	0.013	0.002	0.011	0.013	12.2	11.11	74	
10/31/05 19:00	0.02425	12.3	0.3	3.1	225	6.3	0.004	0.011	0.016	0.027	13.1	8.89	85	
10/31/05 20:00	0.02631	12.6	0.7	3.1	225	5.4	0	0.022	0.016	0.038	13.1	7.22	91	
10/31/05 21:00	0.02726	12.8	0.3	2.2	202.5	5.4	0	0.04	0.012	0.053	14.9	6.11	93	
10/31/05 22:00	0.02774	12.6	0.9	1.3	202.5	4.9	0	0.025	0.01	0.034	11.6	5.00	94	
10/31/05 23:00	0.03117	12.2	0.3	1.8	202.5	3.6	0	0.021	0.009	0.03	13.1	4.44	95	
11/1/05 0:00	0.03214	12.4	0.5	1.8	225	4.9	0.008	0.007	0.008	0.016	9.9	3.89	95	
11/1/05 1:00	0.03495	12.2	0.5	2.2	202.5	5.4	0.017	0	0.004	0.004	11.1	5.56	79	
11/1/05 2:00	0.03459	12.2	0.8	1.3	202.5	4	0.017	0	0.004	0.004	12.6	6.11	71	
11/1/05 3:00	0.02872	12.3	0.5	0.9	90	3.6	0.009	0.001	0.005	0.005	10.9	3.89	86	
11/1/05 4:00	0.03115	12.1	0.6	0.9	202.5	3.1	0.003	0	0.006	0.007	11.4	2.22	93	
11/1/05 5:00	0.03562	12	0.6	1.3	225	3.1	0	0.008	0.01	0.017	11.6	1.67	95	
11/1/05 6:00	0.03609	12	0.5	1.3	225	2.7	0	0.018	0.008	0.026	11.8	0.56	95	
11/1/05 7:00	0.03545	11.9	0.5	1.3	225	2.2	0	0.03	0.01	0.041	15.8	2.22	96	
11/1/05 8:00	0.03095	12.9	1.6	0	202.5	1.3	0.003	0.041	0.016	0.057	18.2	8.33	80	
11/1/05 9:00	0.03117	15	7.5	1.3	292.5	4	0.006	0.033	0.018	0.051	19.6	12.22	62	
11/1/05 10:00	0.01881	25.9	7.4	0.4	247.5	1.8	0.011	0.017	0.015	0.032	18.7	15.56	53	
11/1/05 11:00	0.02325	29.1	3.2	1.3	247.5	5.8	0.027	0.004	0.007	0.01	13.1	18.33	34	
11/1/05 12:00	0.02757	31.7	3.7	1.8	90	7.6	0.038	0	0.002	0.002	9.6	18.89	23	
11/1/05 13:00	0.03174	30.7	3.4	2.2	90	8	0.041	0	0.002	0.001	7.3	20.00	22	
11/1/05 14:00	0.0346	32.8	3.4	1.3	90	5.8	0.042	0	0.002	0.002	11.4	21.11	21	
11/1/05 15:00	0.03705	30.5	2.6	1.8	90	5.4	0.042	0	0.003	0.003	13.2	21.67	21	
11/1/05 16:00	0.03819	28.2	3.5	1.3	90	4.9	0.041	0	0.004	0.004	11.8	21.11	23	
11/1/05 17:00	0.03895	23.5	5.7	0.9	22.5	4.9	0.015	0.028	0.027	0.054	13.8	16.67	41	
11/1/05 18:00	0.028	19.1	2.6	1.8	0	4.9	0.001	0.034	0.035	0.069	19.3	11.67	67	
11/1/05 19:00	0.02111	17.7	0.7	1.8	0	4	0	0.085	0.03	0.116	20.1	9.44	80	
11/1/05 20:00	0.0137	17.2	0.6	0.9	0	3.6	0	0.108	0.023	0.131	21.4	7.78	88	
11/1/05 21:00	0.01512	17	0.3	1.3	22.5	2.7	0	0.112	0.021	0.134	22.3	7.22	90	
11/1/05 22:00	0.01678	16.9	0.7	1.3	0	3.6	0	0.126	0.019	0.144	22.5	6.67	90	
11/1/05 23:00	0.02757	16.3	0.5	1.3	0	4	0	0.114	0.017	0.13	22.8	6.11	92	
11/2/05 0:00	0.02565	16.1	0.2	3.1	22.5	11.2	0	0.098	0.019	0.116	23.4	6.11	93	
11/2/05 1:00	0.03261	16.1	0.5	4	22.5	10.3	0	0.072	0.022	0.094	25.2	6.11	92	
11/2/05 2:00	0.0321	15.8	0.6	3.1	22.5	8.9	0	0.067	0.017	0.084	23.1	5.56	92	
11/2/05 3:00	0.02683	15.5	0.6	3.6	22.5	11.6	0	0.058	0.017	0.075	22.1	5.00	92	
11/2/05 4:00	0.0251	15.1	0.8	4	22.5	12.5	0	0.037	0.015	0.051	20.6	5.00	92	
11/2/05 5:00	0.0294	15.2	0.5	7.6	33.5	12.5	0	0.049	0.012	0.061	21	4.44	90	
11/2/05 6:00	0.03093	15.2	0.2	5.8	0	10.7	0	0.069	0.014	0.083	19.3	4.44	90	
11/2/05 7:00	0.03153	15.2	0.5	4.9	0	8.9	0	0.051	0.02	0.071	20.3	6.67	88	
11/2/05 8:00	0.02752	14.9	1.1	4.5	22.5	8.9	0.006	0.036	0.026	0.063	23.5	12.78	61	
11/2/05 9:00	0.03087	13.9	1.7	3.1	180	9.4	0.019	0.009	0.019	0.028	19.6	16.11	47	
11/2/05 10:00	0.02654	17.2	5	3.1	180	9.4	0.023	0.008	0.019	0.027	18.8	20.00	37	
11/2/05 11:00	0.02947	23	6.1	2.7	180	8.9	0.031	0.004	0.011	0.015	15.7	22.78	30	
11/2/05 12:00	0.03413	25.3	1.8	5.4	180	10.3	0.038	0.002	0.009	0.011	16	25.00	27	
11/2/05 13:00	0.04075	25.9	1.8	7.2	180	12.1	0.042	0.001	0.007	0.009	13.9	26.11	24	
11/2/05 14:00	0.04489	26.6	1.6	7.6	180	13	0.046	0.001	0.007	0.008	12.4	26.11	23	
11/2/05 15:00	0.04992	26.1	0.8	8.9	180	13.9	0.045	0.001	0.009	0.01	15.1	26.67	21	
11/2/05 16:00	0.04976	25.5	1.2	9.4	180	15.6	0.041	0	0.011	0.012	11.8	25.00	22	
11/2/05 17:00	0.04842	23.6	1.9	10.3	180	16.1	0.034	0	0.017	0.017	11.6	22.78	25	
11/2/05 18:00	0.0345	22.2	1.3	11.6	202.5	17	0.029	0	0.019	0.019	12.6	21.67	23	
11/2/05 19:00	0.0401	21.3	0.9	12.5	180	18.8	0.031	0	0.015	0.014	12.7	20.00	26	
11/2/05 20:00	0.04011	20.1	1.7	14.3	202.5	18.8	0.035	0	0.01	0.01	11.3	18.89	27	
11/2/05 21:00	0.03292	19.9	0.6	13.4	202.5	17.9	0.03	0	0.009	0.009	14.7	18.33	27	
11/2/05 22:00	0.03428	17.9	1.2	13.4	202.5	18.8	0.039	0	0.007	0.006	12.9	17.78	29	
11/2/05 23:00	0.04126	17.3	0.5	13.9	180	20.1	0.036	0	0.012	0.011	11.1	17.78	27	
11/3/05 0:00	0.04674	16.9	0.7	13.9	180	17.9	0.039	0	0.008	0.007	12.3	16.67	29	
11/3/05 1:00	0.04468	16.4	0.4	13.9	180	17	0.038	0	0.005	0.005	11.6	16.11	30	
11/3/05 2:00	0.04469	16.1	0.6	13.9	202.5	17	0.038	0	0.005	0.005	13.8	15.00	32	
11/3/05 3:00	0.04473	15.8	0.5	14.3	180	17.9	0.037	0	0.005	0.005	14.9	14.44	33	
11/3/05 4:00	0.04041	15.6	0.8	13.4	180	19.2	0.036	0	0.006	0.006	12.2	15.00	32	
11/3/05 5:00	0.03939	15.2	0.5	14.8	180	19.7	0.033	0	0.009	0.009	14.9	15.56	31	
11/3/05 6:00	0.03702	14.8	0.4	12.5	180	18.8	0.031	0	0.012	0.012	12.4	15.56	30	
11/3/05 7:00	0.03467	14.4	0.6	12.5	180	19.7	0.028	0.001	0.015	0.016	15.9	15.56	32	
11/3/05 8:00	0.03168	14.1	0.7	11.2	180	18.3	0.03	0.002	0.015	0.017	15.1	17.22	31	
11/3/05 9:00	0.03419	15.1	3.2	8.5	180	17	0.036	0.002	0.009	0.01	14	18.89	29	
11/3/05 10:00	0.0388	18.7	2.7	6.3	180	16.1	0.038	0.001	0.007	0.009	11.2	20.56	27	
11/3/05 11:00	0.04108	21.3	3.2	6.3	180	15.2	0.042	0.001	0.007	0.008	14.8	22.78	26	
11/3/05 12:00	0.04384	22.9	2	10.7	202.5	16.1	0.046	0.001	0.007	0.008	14.2	24.44	25	
11/3/05 13:00	0.04911	24.5	1.8	10.3	202.5	16.1	0.051	0.001	0.006	0.007	16.9	25.00	24	
11/3/05 14:00	0.05344	25.2	2	11.2	180	18.8	0.052	0	0.007	0.008	18	26.11	23	
11/3/05 15:00	0.05405	24.9	1.6	11.2	180	18.8	0.054	0	0.009	0.009	16.6	26.11	25	
11/3/05 16:00	0.05602	24.7	1.2	7.6	180	18.8	0.051	0	0.013	0.013	27.8	25.56	27	
11/3/05 17:00	0.05597	23.7	2.2	6.7	180	17	0.047	0	0.014	0.014	21.2	23.33	31	
11/3/05 18:00	0.05204	21.8	1.3	7.6	180	14.8	0.049	0	0.015	0.015	19	22.22	36	
11/3/05 19:00	0.05645	20.9	0.6	9.4	180	16.1	0.052	0	0.013	0.012	19.4	21.67	39	
11/3/05 20:00	0.05729	20.2	0.7	10.3	180	15.2	0.051	0	0.011	0.011	18.1	21.11	43	
11/3/05 21:00	0.05486	19.8	0.4	10.7	180	18.3	0.046	0	0.012	0.011	18.6	21.11	46	
11/3/05 22:00	0.04934	19.6	0.2	8.5	180	15.6	0.04	0	0.013	0.013	19.7	20.56	46	
11/3/05 23:00	0.04352	19.5	0.3	7.2	180	14.8	0.04	0	0.011	0.011	19.6	20.56	45	
11/4/05 0:00	0.04152	19.3	0.2	5.4	180	16.1	0.042	0	0.008	0.007	18.4	20.56	46	
11/4/05 1:00	0.03903	18.8	0.8	7.2	180	15.2	0.038	0	0.009	0.009	17.8	20.00	48	
11/4/05 2:00	0.03781	18.4	0.3	6.7	180	15.6	0.038	0	0.008	0.007	16.1	19.44	47	
11/4/05 3:00	0.03663	18.4	0.1	5.4	180	13.4	0.034	0	0.01	0.01	17.5	19.44	47	
11/4/05 4:00	0.03783	18.3	0.3	5.4	180	14.3	0.033	0	0.009	0.009	14.3	18.89	47	
11/4/05 5:00	0.03649	17.9	0.4	4.9										

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
10/31/05 15:00	60	4.4704	11.1	8.6	6.1	72	6.69	10	993.90	10.2	10.3	0.2
10/31/05 16:00	81	2.2352	11.1	8.6	6.1	72	4.12	350	994.24	10.4	10.6	0.2
10/31/05 17:00	160	0.89408	11.7	9.2	6.7	72	3.60	340	994.58	11.3	11.7	0.5
10/31/05 18:00	230	1.34112	10.6	8.7	6.7	77	2.57	330	995.26	9.2	10.5	1.3
10/31/05 19:00	289	0	8.9	7.2	6.1	83	2.06	330	995.60	7.7	10.2	2.4
10/31/05 20:00	283	0	7.2	6.2	5	86	2.57	320	995.94	7.8	9.4	1.7
10/31/05 21:00	156	0	8.3	6.7	5	80	3.09	310	996.61	7.7	8.8	1.1
10/31/05 22:00	202	0.44704	7.8	6.5	5	83	2.06	320	996.61	7	8.3	1.3
10/31/05 23:00	234	0	6.7	5.2	3.3	79	1.54	330	996.28	5.6	7.1	1.5
11/1/05 0:00	294	0.89408					0.00	0	996.28	5.7	7.1	1.3
11/1/05 1:00	297	0.89408					0.00	0	995.94	5.6	6.8	1.3
11/1/05 2:00	266	0.89408					2.06	290	995.94	5.1	6.3	1.2
11/1/05 3:00	173	0.44704					0.00	0	995.60	4	6	2
11/1/05 4:00	204	0.44704					0.00	0	995.94	1.8	5	3.2
11/1/05 5:00	211	0					0.00	0	996.61	2.8	5.1	2.3
11/1/05 6:00	215	0.44704					0.00	0	997.29	1.8	4	2.2
11/1/05 7:00	208	0.44704					0.00	0	998.31	3.5	4.5	0.9
11/1/05 8:00	202	0.44704					0.00	0	998.65	8.1	7.7	-0.4
11/1/05 9:00	180	0.89408					1.54		998.65	12.1	11.4	-0.7
11/1/05 10:00	194	0.89408					2.57	240	998.65	15.4	14.6	-0.8
11/1/05 11:00	231	1.78816					4.12	260	997.97	17.2	16.4	-0.8
11/1/05 12:00	268	2.2352					4.63	250	996.95	16.7	17.8	-0.9
11/1/05 13:00	248	1.78816					4.63	250	995.94	19.4	18.5	-0.9
11/1/05 14:00	255	1.34112					3.09		995.60	20.1	19.4	-0.7
11/1/05 15:00	265	1.34112					3.60	260	995.26	20.4	20.1	-0.3
11/1/05 16:00	267	0.89408					2.06	260	994.92	19.5	19.9	0.4
11/1/05 17:00	238	0.44704					2.06	190	994.92	15.6	17.6	2
11/1/05 18:00	222	0.44704	13.3	8.3	2.8	49	2.06	180	994.92	13.5	16.1	2.6
11/1/05 19:00	248	0	12.8	8.3	3.3	53	0.00	0	994.92	12.2	15.1	2.9
11/1/05 20:00	243	0	11.1	7.4	3.3	59	2.06	180	994.92	12.2	14.9	2.7
11/1/05 21:00	205	0	11.7	7.5	2.8	55	3.09	180	995.26	11.8	14.4	2.6
11/1/05 22:00	176	0					2.06	190	995.26	12.2	14.3	2.1
11/1/05 23:00	243	0	10	6.7	2.8	61	3.09	180	995.60	11.6	13.5	2
11/2/05 0:00	196	0	9.4	6.6	3.3	66	3.09	180	995.60	11.8	13.5	1.7
11/2/05 1:00	206	0	9.4	6.6	3.3	66	2.06	180	995.60	11	12.7	1.6
11/2/05 2:00	218	0	8.9	6.1	2.8	66	3.09	180	995.26	11.1	12.9	1.8
11/2/05 3:00	223	0	9.4	6.6	3.3	66	3.60	180	994.92	10.7	12.1	1.4
11/2/05 4:00	193	0	8.9	6.3	3.3	68	3.60	170	994.92	9.8	11.3	1.4
11/2/05 5:00	64	0	8.9	6.3	3.3	68	3.09	170	994.92	9.1	10.7	1.6
11/2/05 6:00	82	0.44704					4.63	170	994.92	8.8	10	1.3
11/2/05 7:00	220	0	10.6	7.2	3.3	61	4.12	170	995.60	9.9	10.4	0.5
11/2/05 8:00	193	0.89408	13.9	8.6	2.8	47	5.14	180	995.94	12.2	11.9	-0.3
11/2/05 9:00	202	1.78816	17.8	10.4	2.8	37	4.63	190	995.60	15.7	15.2	-0.5
11/2/05 10:00	201	1.78816	20.6	12	3.9	33	6.17	200	995.26	20	19.3	-0.7
11/2/05 11:00	199	2.2352	22.8	12.6	2.8	27	9.26	190	993.90	23.1	22.3	-0.7
11/2/05 12:00	198	2.68224	25	13.2	2.2	23	8.75	210	992.89	24.6	24	-0.7
11/2/05 13:00	200	2.68224	25.6	13.3	1.7	21	8.75	190	992.21	25.2	24.6	-0.6
11/2/05 14:00	198	3.12928	26.1	13.7	2.2	21	7.72	190	991.53	25.8	25.4	-0.3
11/2/05 15:00	200	2.68224	26.1	13.7	2.2	21	7.20	190	990.86	25.5	25.5	0
11/2/05 16:00	200	2.68224	23.9	12.6	1.7	23	5.14	180	990.52	23.8	24.4	0.6
11/2/05 17:00	198	2.2352	23.3	11.3	-1.7	19	8.23	180	990.52	20.8	22	1.2
11/2/05 18:00	199	2.68224					5.66	180	990.52	20.4	21.1	0.8
11/2/05 19:00	197	2.2352	20	10.2	-0.6	25	7.20	180	990.52	19.5	20.3	0.8
11/2/05 20:00	190	2.2352	19.4	9.8	-1.1	25	6.69	180	990.86	18.7	19.4	0.6
11/2/05 21:00	195	2.68224	18.9	9.5	-1.1	26	7.20	180	990.86	18.1	18.7	0.6
11/2/05 22:00	200	2.2352	17.8	8.9	-1.7	27	6.69	170	990.86	17.3	17.9	0.6
11/2/05 23:00	201	2.2352	17.2	8.4	-2.2	27	6.69	180	990.86	16.2	16.8	0.6
11/3/05 0:00	199	2.2352	16.7	8.2	-2.2	28	7.20	180	990.18	15.6	16.2	0.6
11/3/05 1:00	201	2.2352	16.1	8.1	-1.7	30	7.72	170	990.18	15.1	15.8	0.6
11/3/05 2:00	199	1.78816	15.6	7.8	-1.7	31	7.72	170	989.84	14.6	15.2	0.6
11/3/05 3:00	197	2.2352	15.6	7.8	-1.7	31	7.72	180	988.83	14.6	15.2	0.6
11/3/05 4:00	204	3.12928	15.6	7.7	-2.2	30	8.75	180	988.15	15.4	15.9	0.5
11/3/05 5:00	203	3.12928	15	7.5	-1.7	32	8.23	180	987.81	15.7	16.2	0.5
11/3/05 6:00	204	3.57632	15	7.5	-1.7	32	8.23	180	987.47	15.3	15.8	0.5
11/3/05 7:00	204	3.12928	16.1	8.2	-1.1	31	6.69	190	987.81	15.1	15.5	0.3
11/3/05 8:00	206	2.68224	18.3	9.6	0	29	8.75	200	988.15	16.1	16	-0.1
11/3/05 9:00	209	4.02336	20	10.6	0.6	27	11.32	200	987.47	17.9	17.4	-0.5
11/3/05 10:00	210	3.57632	21.1	11.4	1.7	28	11.32	200	987.13	20	19.3	-0.6
11/3/05 11:00	205	4.02336	23.3	12.5	2.2	25	8.75	180	985.78	22.3	21.6	-0.7
11/3/05 12:00	204	4.02336	24.4	13.2	2.8	25	10.80	180	984.08	23.8	23.1	-0.7
11/3/05 13:00	201	4.4704	26.1	13.8	2.8	22	8.23	180	983.41	24.9	24.3	-0.6
11/3/05 14:00	200	4.02336	26.1	14.2	3.9	24	9.26	180	982.39	25.3	24.9	-0.4
11/3/05 15:00	209	3.57632	26.1	14.4	4.4	25	8.23	210	983.07	25.3	25.2	-0.1
11/3/05 16:00	207	2.68224	25	14.4	5.6	29	6.69	200	983.07	24.2	24.6	0.4
11/3/05 17:00	209	3.12928	22.8	14	6.7	36	7.72	200	983.07	22.3	22.9	0.7
11/3/05 18:00	206	3.12928					7.20	190	983.07	21.1	21.6	0.6
11/3/05 19:00	206	3.57632	21.7	14.5	8.9	44	7.72	190	983.07	21	21.5	0.5
11/3/05 20:00	204	3.57632	21.1	14.3	8.9	46	7.72	190	983.07	21.1	21.5	0.4
11/3/05 21:00	206	3.12928	21.7	14.3	8.3	42	8.75	200	983.07	20.9	21.2	0.4
11/3/05 22:00	204	3.12928	21.1	14	8.3	44	7.72	200	983.07	20.2	20.6	0.4
11/3/05 23:00	207	3.12928	21.1	14	8.3	44	8.75	190	982.39	19.8	20.2	0.4
11/4/05 0:00	210	3.57632	20.6	13.8	8.3	45	9.26	200	981.38	19.5	20	0.5
11/4/05 1:00	210	2.68224	20	13.4	7.8	45	9.26	200	981.04	19.7	20.2	0.5
11/4/05 2:00	209	2.68224	20	13.4	7.8	45	8.23	200	980.70	19.4	19.8	0.5
11/4/05 3:00	209	2.68224	19.4	13.1	7.8	47	7.20	200	980.70	19.5	19.9	0.4
11/4/05 4:00	209	2.68224	18.9	12.9	7.8	49	7.20	190	980.70	19.5	19.9	0.4
11/4/05 5:00	213	2.68224	18.9	12.6	7.2	47	5.66	190	980.70	19.1	19.6	0.4
11/4/05 6:00	212	1.78816	18.9	12.6	7.2	47	5.14	200	981.04	18.7	19.1	0.4
11/4/05 7:00	212	2.2352	18.3	12.4	7.2	49	5.14	190	981.71	18.2	18.7	0.5
11/4/05 8:00	211	2.2352	20	13.1	7.2	44	8.75	200	981.71	19.5	19.4	-0.1
11/4/05 9:00	209	2.68224	21.7	13.8	7.2	39	7.20	200	981.71	21.5	20.9	-0.6
11/4/05 10:00	200	2.2352	23.3	14.7	7.8	37	7.20	190	981.71	23.6	22.9	-0.8
11/4/05 11:00	202	2.2352	25	15.5	8.3	35	5.66	190	981.38	25.2	24.3	-0.9
11/4/05 12:00	196	2.68224	26.1	16.2	8.9	34	7.20	200	980.02	26	25.1	-0.9
11/4/05 13:00	197	3.12928	26.7	16.6	9.4	34	5.14	180	979.34	26.3	25.7	-0.7
11/4/05 14:00	199	3.57632	27.8	16.8	8.9	31	8.75	190	978.33	26.4	26	-0.5
11/4/05 15:00	198	4.02336	27.2	17.1	10	34	7.72	170	978.33	26.5	26.4	-0.2
11/4/05 16:00	203	3.12928	26.1	16.7	10	36	9.26	180	977.99	25.		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{MAX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
10/31/05 15:00	77.9	3.3	4.2	0.9	9.8	0.9	10.2	11.6	70	0.25	0.01	987.15
10/31/05 16:00	81.1	1	1.7	0.6	4.1	0.5	276.3	13.8	36.7	0.13	0	987.39
10/31/05 17:00	73	1.8	2.6	0.8	4.8	0.6	177.8	10.9	19.2	0.07	0	987.6
10/31/05 18:00	79.2	0.4	1.7	1.4	3	0.3	305.2	7.4	-1	0	0	988.08
10/31/05 19:00	85.8	0.2	1.3	1.1	2.3	0.3	235	8.9	-1	0	0	988.7
10/31/05 20:00	83.9	0.2	1.5	1.3	2.8	0.4	292.2	11.7	-1	0	0	989.07
10/31/05 21:00	79.6	1.1	2.3	1.2	4.7	0.6	297	12.7	-1	0	0	989.45
10/31/05 22:00	72.7	1.3	2.6	1.4	4.1	0.4	303.3	10.1	-1	0	0	989.6
10/31/05 23:00	75.4	0.9	1.8	1	3.5	0.4	289.2	13	-1	0	0	989.55
11/1/05 0:00	69.9	0.8	1.8	1	3.4	0.4	282.9	11.6	-1	0	0	989.39
11/1/05 1:00	67.3	0.8	1.8	1	3.3	0.4	271.3	11.2	-1	0	0	989.37
11/1/05 2:00	69.3	0.9	1.9	0.9	3.4	0.4	266.4	11.1	-1	0	0	989.13
11/1/05 3:00	74.3	0.6	1.6	1	3.1	0.3	264	9.4	-1	0	0	988.69
11/1/05 4:00	84.4	0.2	1.2	1	2.3	0.2	250.7	8.8	-1	0	0	988.72
11/1/05 5:00	83.3	0.8	1.9	1.1	3.3	0.3	265.5	8.3	-1	0	0	989.34
11/1/05 6:00	87	0.1	1.1	1	2.4	0.2	246.7	8.1	2.3	0.01	0	989.75
11/1/05 7:00	88.3	0.8	1.4	0.6	2.5	0.2	232	8.5	104.4	0.38	0	990.52
11/1/05 8:00	74.9	1.5	1.8	0.2	2.9	0.3	226.4	10	284.5	1.02	0	990.98
11/1/05 9:00	62.3	2	2.2	0.3	3.5	0.4	209.7	10.2	451	1.62	0	991.32
11/1/05 10:00	42.3	2.4	2.8	0.4	6.3	0.7	205.8	14.3	574.3	2.07	0	991.33
11/1/05 11:00	31	2.9	3.4	0.5	6.5	0.8	220.6	15.5	641.3	2.31	0	991.01
11/1/05 12:00	26	3.1	3.7	0.6	7.5	1.1	215	18.2	648.3	2.33	0	990.13
11/1/05 13:00	28.8	3.1	3.9	0.8	7.3	1	198.3	14.7	591.8	2.13	0	989.02
11/1/05 14:00	26.8	3	3.7	0.7	8	0.8	191.6	15.7	482.1	1.74	0	988.56
11/1/05 15:00	25.4	2.8	3.5	0.7	6.3	0.8	201.9	11.5	327.3	1.18	0	988.28
11/1/05 16:00	27	2.3	3	0.7	5.5	0.6	203.9	9.8	148.3	0.53	0	988
11/1/05 17:00	38.3	0.1	1.5	1.4	2.4	0.2	189.6	4.4	10.4	0.04	0	987.84
11/1/05 18:00	47.2	0	1.3	1.3	2.2	0.1	192.4	3.5	-1	0	0	987.98
11/1/05 19:00	52.9	0.1	1.5	1.4	2	0.1	201.8	3.2	-1	0	0	988.09
11/1/05 20:00	52.3	0.2	1.7	1.5	2.4	0.1	193.7	3.8	-1	0	0	988.01
11/1/05 21:00	54.3	0.4	1.9	1.5	2.9	0.2	189.5	3.3	-1	0	0	988.17
11/1/05 22:00	53.3	1.1	2.3	1.2	3.1	0.2	198.3	4	-1	0	0	988.16
11/1/05 23:00	57.7	1.6	2.9	1.3	4.1	0.3	202.3	5.1	-1	0	0	988.23
11/2/05 0:00	57.6	2.1	3.4	1.3	4.6	0.4	205.3	5.9	-1	0	0	988.36
11/2/05 1:00	61.3	1.6	2.7	1.1	4.4	0.3	209.1	5.9	-1	0	0	988.24
11/2/05 2:00	61.4	1.5	2.6	1.1	3.9	0.2	193.3	4.6	-1	0	0	988
11/2/05 3:00	61.9	1.5	2.5	1	3.9	0.3	190.3	6.4	-1	0	0	987.74
11/2/05 4:00	63.7	1.3	2.3	1	3.6	0.3	184.8	6.9	-1	0	0	987.65
11/2/05 5:00	66.6	1.1	2.3	1.2	3.7	0.3	160.9	7.2	-1	0	0	987.61
11/2/05 6:00	68.3	1.2	2.4	1.2	3.9	0.4	174.6	7.7	2	0.01	0	987.74
11/2/05 7:00	64.6	2	3	1	5	0.5	170.3	8.7	94.1	0.34	0	987.93
11/2/05 8:00	57	2.7	3.5	0.8	6	0.6	170.8	9.9	273.5	0.98	0	988.41
11/2/05 9:00	48.3	3.6	4.5	0.9	7.3	0.7	168.6	9.1	438	1.58	0	988.19
11/2/05 10:00	36.2	4.1	5.1	1	8.1	0.9	166.3	11.4	561.8	2.02	0	987.82
11/2/05 11:00	28.4	4.9	6.2	1.3	11.2	1.2	168.8	12.3	632.1	2.28	0	986.91
11/2/05 12:00	24.3	5.4	6.8	1.4	11.5	1.4	173.3	12	640.9	2.31	0	985.89
11/2/05 13:00	21.6	6	7.6	1.6	13.9	1.4	179.6	11.5	587.4	2.11	0	984.95
11/2/05 14:00	19.9	5.5	7	1.4	12.3	1.5	176.4	12.4	478.9	1.72	0	984.22
11/2/05 15:00	19.3	5	6.4	1.4	11.3	1.2	169.9	11.6	318.2	1.15	0	983.62
11/2/05 16:00	21.2	4.3	5.7	1.4	10.2	1.1	166.1	10.4	100.2	0.36	0	983.27
11/2/05 17:00	28.2	2.5	3.5	1	7.4	0.6	153.4	9.5	6.1	0.02	0	983.13
11/2/05 18:00	27.4	3.9	4.9	1	8.6	0.9	156.3	9.9	-0.9	0	0	983.17
11/2/05 19:00	26	3.9	5	1.1	9.6	0.9	158.4	9.3	-1	0	0	983.14
11/2/05 20:00	25.7	4.6	5.6	1.1	9.9	1.1	158.2	10.9	-1	0	0	983.34
11/2/05 21:00	26.8	4.5	5.6	1.1	9.5	1	157.3	11	-1	0	0	983.47
11/2/05 22:00	27.9	4.8	6	1.3	10.4	1.1	160.5	10.1	-1	0	0	983.43
11/2/05 23:00	30	4.4	5.4	1	9	1	158.9	9.4	-1	0	0	983.21
11/3/05 0:00	30.5	4.5	5.6	1.2	9.1	0.9	159.1	9.3	-1	0	0	982.96
11/3/05 1:00	31.4	4.3	5.5	1.1	8.9	0.9	156.3	9	-1	0	0	982.73
11/3/05 2:00	32.6	4.1	5.1	1	10.6	0.9	152.8	10.9	-1	0	0	982.4
11/3/05 3:00	32.9	4.6	5.9	1.3	9.3	1	161.2	9.4	-1	0	0	981.39
11/3/05 4:00	31.3	5.1	6.5	1.4	9.9	1	165	9.6	-1	0	0	980.68
11/3/05 5:00	30.3	5.4	7.1	1.7	13.3	1.2	172.9	9.9	-1	0	0	980.35
11/3/05 6:00	30.4	5.2	6.7	1.5	12.1	1.3	167.8	10	2.1	0.01	0	979.87
11/3/05 7:00	32.3	5.2	6.7	1.5	10.9	1.2	169.2	10.5	71.4	0.26	0	979.97
11/3/05 8:00	32.6	5.7	7.2	1.6	12.6	1.3	171.7	11.1	256.1	0.92	0	980.17
11/3/05 9:00	31.3	5.1	6.5	1.4	10.8	1.3	174.5	11.8	439.3	1.58	0	980.1
11/3/05 10:00	28.6	5.7	7	1.3	11.9	1.4	164.1	10.9	564.3	2.03	0	979.51
11/3/05 11:00	25.5	5.9	7.1	1.2	11.6	1.3	164.5	11.3	635.2	2.29	0	978.74
11/3/05 12:00	24	6	7.2	1.2	12.4	1.6	156.2	12.2	645.3	2.32	0	977.12
11/3/05 13:00	22.8	6.4	7.8	1.4	12.9	1.5	162.5	11.2	591	2.13	0	976.22
11/3/05 14:00	22.5	6.5	7.9	1.4	14	1.5	162.3	12.2	476.8	1.72	0	975.22
11/3/05 15:00	24.2	5.1	6.5	1.3	10.6	1.2	171.4	11.3	325.3	1.17	0	975.67
11/3/05 16:00	27.2	4	5.3	1.3	10.7	1	168.8	9.7	140.3	0.5	0	975.92
11/3/05 17:00	31.2	4	4.9	1	9.1	0.9	159.3	9.6	4.8	0.02	0	975.91
11/3/05 18:00	38.3	4.3	5.5	1.2	9.9	1	160.8	10	-0.6	0	0	976.12
11/3/05 19:00	41.3	4.5	5.9	1.3	9.5	1.1	166.8	10.3	-0.8	0	0	976.01
11/3/05 20:00	42.1	5	6.4	1.4	10.9	1.3	165.9	10.7	-0.7	0	0	975.91
11/3/05 21:00	43.6	5.2	6.7	1.5	12.4	1.3	169.8	10.2	-0.7	0	0	975.98
11/3/05 22:00	47.1	4.7	6.1	1.4	9.9	1.1	168.6	9.8	-0.9	0	0	975.86
11/3/05 23:00	48.2	4.8	6.3	1.5	10.8	1	169.1	9.5	-1	0	0	975.45
11/4/05 0:00	48.2	4.8	6.4	1.6	10.3	1.2	175.2	10	-0.9	0	0	974.62
11/4/05 1:00	46.4	4.7	6.2	1.6	10.9	1.1	178	9.8	-0.8	0	0	974.09
11/4/05 2:00	47	4.5	6	1.5	9.3	1	176.9	9	-0.9	0	0	973.69
11/4/05 3:00	45	4.4	5.8	1.4	10.5	1	181	9	-0.8	0	0	973.49
11/4/05 4:00	43.5	4.4	5.9	1.5	10.9	1.1	184.6	9.1	-0.6	0	0	973.33
11/4/05 5:00	43.3	3.6	4.8	1.2	7.8	0.9	184.7	8.6	-0.6	0	0	973.46
11/4/05 6:00	44.1	3.7	4.9	1.2	7.7	0.8	187.8	8	0.2	0	0	973.64
11/4/05 7:00	45.8	3.7	4.9	1.2	8.4	0.7	184.8	7.9	30.2	0.11	0	974.11
11/4/05 8:00	43.7	3.7	4.8	1.1	8.6	0.9	184.8	9.2	233.7	0.84	0	974.61
11/4/05 9:00	38.8	3.8	4.9	1.1	7.8	0.8	183.5	10.1	410.3	1.48	0	974.69
11/4/05 10:00	33.3	3.5	4.3	0.8	7.1	0.9	174.2	13.2	540.5	1.95	0	974.71
11/4/05 11:00	31.3	3.1	3.7	0.6	6.8	0.8	152.8	14.6	608	2.19	0	974.39
11/4/05 12:00	30.3	4	4.8	0.8	8.4	1	183.3	15	617.4	2.22	0	973.4
11/4/05 13:00	30.7	4.4	5.2	0.8	9.1	1.1	145.3	12.8	562	2.02	0	972.39
11/4/05 14:00	31.8	4.9	5.8	0.9	10.2	1.2	172	13.4	454	1.63	0	971.62
11/4/05 15:00	31.7	4.9	5.8	0.9	11.2	1.3	178.8	14.3	300.5	1.08	0	971.38
11/4/05 16:00	34.6	4.3	5.2	0.9	8.9	1.1	176.8	12.3	126.3	0.45	0	971.24
11/4/05 17:00	40.7	4.8	5.9	1.1	10.9	1.2	184.8	10.7	7.5	0.03	0	971.52
11/4/05 18:00	47.8	4.1	5.1	1.1	8.8							

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	BOK				1127										RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)			
11/5/05 6:00	0.03012	16.2	0.5	11.6	202.5	17.4	0.027	0	0.005	0.004	13.8	17.22	74		
11/5/05 7:00	0.02553	15.7	0.3	11.2	202.5	14.8	0.023	0	0.007	0.007	17	17.78	74		
11/5/05 8:00	0.02108	15.8	0.5	8.5	180	14.3	0.022	0.002	0.01	0.012	18.6	19.44	67		
11/5/05 9:00	0.02163	17.2	4.2	4.5	180	10.3	0.026	0.002	0.008	0.01	17.5	21.67	57		
11/5/05 10:00	0.02506	22.6	5	4	180	11.2	0.031	0.001	0.006	0.007	15.9	23.33	50		
11/5/05 11:00	0.02996	26.8	5	3.6	180	9.9	0.037	0.001	0.005	0.005	15.5	25.00	43		
11/5/05 12:00	0.03559	28.3	4.1	3.6	180	9.4	0.043	0	0.004	0.004	15.1	26.11	37		
11/5/05 13:00	0.04275	28.2	4.6	4	180	10.3	0.047	0	0.004	0.004	17.8	27.22	33		
11/5/05 14:00	0.04593	29.6	4.2	4	0	9.8	0.05	0	0.003	0.002	18.9	27.78	30		
11/5/05 15:00	0.04677	29.6	2.5	5.4	0	12.5	0.053	0	0.003	0.003	14.7	26.67	30		
11/5/05 16:00	0.04957	28.2	2.4	4	0	15.2	0.052	0	0.005	0.005	18.6	23.33	44		
11/5/05 17:00	0.051	23.4	5.6	7.2	292.5	19.2	0.047	0	0.006	0.006	20.3	20.56	56		
11/5/05 18:00	0.04916	19.3	2.3	10.7	292.5	16.5	0.045	0	0.008	0.008	22.7	19.44	59		
11/5/05 19:00	0.04899	18.4	0.4	10.7	292.5	17	0.044	0	0.008	0.008	20.7	18.33	53		
11/5/05 20:00	0.04754	18.4	0.3	6.7	292.5	13.9	0.04	0	0.008	0.008	17.3	16.67	53		
11/5/05 21:00	0.03846	18.1	1.2	2.7	270	7.6	0.034	0	0.009	0.009	17.2	15.56	54		
11/5/05 22:00	0.03515	17.3	0.5	1.8	112.5	5.8	0.028	0	0.011	0.011	16.5	13.89	58		
11/5/05 23:00	0.03354	16.9	0.5	1.8	90	7.2	0.03	0	0.007	0.006	15	13.33	54		
11/6/05 0:00	0.03258	16.3	0.9	2.7	112.5	6.7	0.03	0	0.004	0.004	15.2	12.78	55		
11/6/05 1:00	0.03482	15.5	1.4	1.8	90	5.8	0.029	0	0.004	0.003	10.7	12.22	56		
11/6/05 2:00	0.03129	13.6	2	3.6	202.5	7.6	0.023	0	0.006	0.006	10.3	11.11	59		
11/6/05 3:00	0.02645	12.3	0.6	3.1	202.5	5.8	0.019	0	0.007	0.007	11.6	10.00	62		
11/6/05 4:00	0.02431	11.9	0.3	2.7	202.5	6.3	0.013	0.001	0.01	0.011	12	8.33	69		
11/6/05 5:00	0.02229	11.9	0.8	2.2	225	4.5	0.005	0.002	0.013	0.015	12.8	6.11	79		
11/6/05 6:00	0.02073	11.8	0.5	2.2	225	4.5	0.003	0.002	0.011	0.012	9.7	4.44	87		
11/6/05 7:00	0.01922	12.2	0.7	1.3	225	2.7	0.001	0.015	0.014	0.029	14.1	5.56	86		
11/6/05 8:00	0.02002	12.2	0.4	2.7	90	5.8	0.008	0.015	0.01	0.025	14.7	10.56	66		
11/6/05 9:00	0.01964	12.9	5.5	2.7	90	5.8	0.019	0.002	0.005	0.007	14.2	12.22	53		
11/6/05 10:00	0.01461	23.7	11	0.4	135	3.1	0.02	0.004	0.007	0.01	16.8	14.44	47		
11/6/05 11:00	0.01616	31.3	5.3	0.4	112.5	2.7	0.023	0.004	0.008	0.012	16.7	16.11	41		
11/6/05 12:00	0.01829	35	3.7	0.4	135	2.2	0.027	0.004	0.009	0.013	19.9	18.33	32		
11/6/05 13:00	0.0227	36.7	4.4	0.4	112.5	2.2	0.033	0.003	0.007	0.01	17.1	19.44	27		
11/6/05 14:00	0.02757	35.9	4.2	0.4	202.5	2.7	0.034	0.002	0.007	0.009	15.9	20.56	23		
11/6/05 15:00	0.03222	34.3	5.7	0.9	202.5	3.1	0.035	0.002	0.01	0.012	15.6	21.11	22		
11/6/05 16:00	0.0379	28.6	5.3	1.3	202.5	3.6	0.033	0.001	0.013	0.015	10.6	20.56	22		
11/6/05 17:00	0.03913	23.5	6.9	1.3	112.5	4.5	0.016	0.009	0.028	0.037	14.9	17.22	31		
11/6/05 18:00	0.03364	18.7	2.6	1.8	112.5	4.9	0.001	0.049	0.038	0.087	19.9	12.22	50		
11/6/05 19:00	0.03169	17.2	0.8	0.9	112.5	4	0.001	0.061	0.031	0.092	19.1	9.44	66		
11/6/05 20:00	0.02846	16.9	0.1	1.3	112.5	4.5	0.001	0.079	0.028	0.106	24.5	8.33	73		
11/6/05 21:00	0.02171	17	0.3	2.7	112.5	5.8	0	0.076	0.024	0.1	22.2	7.22	77		
11/6/05 22:00	0.03642	17.3	0.5	2.7	180	11.2	0	0.076	0.021	0.096	19.7	6.67	82		
11/6/05 23:00	0.04576	17.6	0.2	5.4	180	11.2	0	0.084	0.018	0.102	22.5	5.56	86		
11/7/05 0:00	0.04461	16.8	1.2	6.7	202.5	14.8	0	0.086	0.014	0.101	21.8	5.56	88		
11/7/05 1:00	0.04566	17.7	1.2	10.7	202.5	14.8	0	0.065	0.012	0.078	20.4	5.00	88		
11/7/05 2:00	0.04455	17.1	0.4	9.4	202.5	12.1	0	0.057	0.011	0.068	20.4	5.00	89		
11/7/05 3:00	0.04456	16.8	0.6	10.3	202.5	12.5	0	0.042	0.012	0.055	19.6	6.11	86		
11/7/05 4:00	0.04233	16.2	1	9.8	202.5	13	0	0.039	0.011	0.05	19.2	6.11	87		
11/7/05 5:00	0.03832	15.4	0.6	9.4	202.5	13.9	0	0.046	0.011	0.057	19.7	6.11	87		
11/7/05 6:00	0.03591	15.5	0.5	12.5	202.5	14.8	0	0.069	0.011	0.08	19.4	6.67	86		
11/7/05 7:00	0.03128	16	0.8	13.9	202.5	16.1	0.001	0.135	0.029	0.164	28	8.33	83		
11/7/05 8:00	0.02878	16.1	1.3	13.4	202.5	16.1	0.008	0.031	0.022	0.053	27.9	14.44	79		
11/7/05 9:00	0.0243	15.3	1.4	11.2	202.5	14.8	0.013	0.005	0.017	0.022	25.4	16.67	75		
11/7/05 10:00	0.0203	17.6	4.9	9.8	202.5	13	0.015	0.009	0.017	0.026	26.8	21.11	67		
11/7/05 11:00	0.01633	22.7	6.3	4.9	180	10.7	0.027	0.004	0.011	0.015	26	26.11	56		
11/7/05 12:00	0.03005	27.3	3	4	180	12.1	0.035	0.001	0.006	0.006	19.6	26.11	48		
11/7/05 13:00	0.03467	29.7	4.5	4.9	22.5	22.1	0.043	0	0.005	0.004	24.7	29.44	43		
11/7/05 14:00	0.03815	30.4	3.4	5.4	22.5	12.5	0.045	0	0.004	0.004	29.5	30.00	40		
11/7/05 15:00	0.04004	30.6	2.7	4.9	0	14.3	0.041	0	0.005	0.005	22	30.00	39		
11/7/05 16:00	0.03834	28.4	3.7	5.8	180	13.4	0.031	0.001	0.015	0.016	18.6	27.78	48		
11/7/05 17:00	0.02984	25.8	1.6	8.9	180	15.6	0.025	0	0.02	0.02	20.2	26.67	51		
11/7/05 18:00	0.0144	24.8	0.8	9.4	202.5	14.8	0.022	0	0.02	0.019	18.5	26.11	52		
11/7/05 19:00	0.01254	24.3	0.5	10.3	180	15.6	0.015	0	0.026	0.026	17.6	25.00	53		
11/7/05 20:00	0.03404	24	0.7	9.8	180	16.1	0.015	0.002	0.028	0.029	24.4	5.56	55		
11/7/05 21:00	0.02019	23.1	0.8	11.2	180	16.5	0.003	0.01	0.039	0.049	15.7	23.89	59		
11/7/05 22:00	0.02084	22.2	0.9	8.9	202.5	13	0.012	0.002	0.025	0.027	16.2	22.78	64		
11/7/05 23:00	0.02725	21.7	0.5	11.2	180	15.2	0.019	0	0.013	0.013	17.3	21.67	67		
11/8/05 0:00	0.02767	21.3	0.5	12.1	180	15.2	0.013	0	0.018	0.017	16.9	21.11	70		
11/8/05 1:00	0.02297	21	0.4	10.7	180	15.6	0.02	0	0.008	0.008	19.7	21.11	73		
11/8/05 2:00	0.02388	20.8	0.2	11.2	180	15.2	0.021	0	0.005	0.005	15.8	20.56	75		
11/8/05 3:00	0.02547	20.5	0.5	12.5	180	15.2	0.02	0	0.005	0.004	17.5	20.00	77		
11/8/05 4:00	0.02191	20	0.5	11.6	180	15.2	0.015	0	0.009	0.009	17.7	20.00	78		
11/8/05 5:00	0.01205	19.7	0.3	9.4	180	13.9	0.01	0.01	0.011	0.01	17.6	20.56	80		
11/8/05 6:00	0.01157	19.2	0.5	8	180	13	0.007	0	0.015	0.015	17.7	20.56	81		
11/8/05 7:00	0.008232	18.9	0.5	5.4	180	11.6	0.005	0.002	0.015	0.018	19	20.00	83		
11/8/05 8:00	0.006817	18.8	0.2	8.5	180	14.3	0.009	0.004	0.01	0.014	19.3	21.67	81		
11/8/05 9:00	0.009122	19.6	1.4	7.2	180	15.2	0.015	0.002	0.006	0.008	16.9	22.78	76		
11/8/05 10:00	0.015	20.9	1.5	6.3	180	15.6	0.018	0.001	0.006	0.007	15.1	24.44	71		
11/8/05 11:00	0.01866	22.6	2.7	4.9	180	13.9	0.023	0.001	0.005	0.006	15.4	26.67	61		
11/8/05 12:00	0.02363	26.4	4.7	6.3	180	16.1	0.03	0	0.003	0.003	14	28.33	51		
11/8/05 13:00	0.02767	29.2	3.1	5.4	22.5	15.2	0.032	0	0.003	0.003	14.4	28.89	46		
11/8/05 14:00	0.03115	28.7	2.7	6.3	180	14.8	0.033	0	0.004	0.004	17.8	28.33	47		
11/8/05 15:00	0.03211	27.2	1.3	6.3	180	15.6	0.032	0	0.006	0.007	17.1	28.33	46		
11/8/05 16:00	0.03374	26.4	1.3	5.8	180	15.6	0.028	0	0.011	0.011	14.1	27.78	47		
11/8/05 17:00	0.02804	25.8	0.4	6.7	180	13.4	0.017	0	0.024	0.024	16.5	26.67	51		
11/8/05 18:00	0.02815	25	0.9	10.3	180	15.2	0.016	0	0.026	0.026	18.3	26.11	56		
11/8/05 19:00	0.03266	24.2	0.7	10.3	180	16.1	0.023	0	0.019	0.018	17.2	25			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
11/5/05 6:00	203	3.12928	17.2	14.7	12.8	76	6.69	180	977.31	15.4	16.1	0.7
11/5/05 7:00	206	2.2352	17.8	14.9	12.8	73	5.66	180	977.99	15.8	16.1	0.3
11/5/05 8:00	210	1.78816	20	16.1	13.3	66	5.14	200	978.67	17.9	17.7	-0.2
11/5/05 9:00	214	2.68224	21.7	16.4	12.8	57	6.69	210	977.99	20	19.4	-0.6
11/5/05 10:00	210	2.2352	23.3	16.7	12.2	50	7.20	190	977.99	21.6	20.8	-0.8
11/5/05 11:00	216	2.2352	24.4	17.1	12.2	47	6.69	190	977.31	23.2	22.3	-0.9
11/5/05 12:00	221	2.2352	25.6	17.3	11.7	42	7.20	190	976.97	24.6	23.7	-1
11/5/05 13:00	215	2.2352	27.2	17.3	10.6	35	5.14	220	976.30	25.6	24.9	-0.7
11/5/05 14:00	231	2.68224	27.2	16.8	9.4	33	7.20	240	976.63	25.9	25.3	-0.5
11/5/05 15:00	271	3.12928	26.1	15.7	7.8	31	6.17	280	977.31	23.5	23.3	-0.2
11/5/05 16:00	299	4.4704	22.2	15.8	11.1	50	8.75	290	979.68	20.5	20.6	0.1
11/5/05 17:00	299	3.57632	20	15.2	11.7	59	7.72	290	981.38	18.7	19.1	0.4
11/5/05 18:00	288	2.2352	18.9	14.2	10.6	59	6.17	300	982.73	17.8	18.2	0.4
11/5/05 19:00	302	2.2352	17.2	12.4	8.3	56	4.12	290	983.75	15.9	16.5	0.6
11/5/05 20:00	306	1.34112	16.1	11.4	7.2	56	4.63	290	985.10	14.5	15.3	0.8
11/5/05 21:00	302	0.89408	15.6	10.7	6.1	53	2.57	260	986.12	12.9	14.3	1.4
11/5/05 22:00	307	1.34112	11.7	8.7	5.6	66	2.57	300	987.13	11.5	12.6	1.2
11/5/05 23:00	313	1.78816	11.7	8.4	5	64	2.57	320	987.47	11.4	12.5	1
11/6/05 0:00	317	1.78816	11.7	8.2	4.4	61	3.60	320	988.15	11.8	12.4	0.6
11/6/05 1:00	264	1.78816	10	7.1	3.9	66	4.12	330	988.83	10.9	11.4	0.5
11/6/05 2:00	189	0.44704	10	6.7	2.8	61	2.57	330	990.18	10	10.5	0.6
11/6/05 3:00	321	0.89408	8.3	5.8	2.8	69	1.54	340	990.18	9	9.8	0.8
11/6/05 4:00	301	0.89408	9.4	6.4	2.8	64	0.00	0	991.20	8.1	9	0.9
11/6/05 5:00	160	0.44704	8.3	5.8	2.8	69	1.54	320	991.87	7.9	8.6	0.7
11/6/05 6:00	212	0	5.6	4.4	2.8	82	2.06	330	992.55	7.1	8.1	1
11/6/05 7:00	186	0	8.3	6.3	3.9	74	0.00	0	993.23	6.4	7.3	0.9
11/6/05 8:00	130	0.44704	11.1	7.4	3.3	59	1.54	40	993.57	10.4	10	-0.5
11/6/05 9:00	91	1.34112	12.8	8.3	3.3	53	0.00	0	994.24	11.8	11.2	-0.6
11/6/05 10:00	128	1.34112	16.1	9.8	3.3	43	2.06	60	993.90	13.8	13	-0.8
11/6/05 11:00	120	0.89408	17.8	10.4	2.8	37	0.00	0	993.90	16.2	15.4	-0.7
11/6/05 12:00	156	0.89408	19.4	10.1	0	27	2.06	0	992.89	18.1	17.2	-1
11/6/05 13:00	107	1.34112	20	10.2	-0.6	25	0.00	0	992.55	19.1	18.2	-0.9
11/6/05 14:00	161	0.89408	20.6	10.1	-1.7	22	2.06	140	991.87	19.5	18.7	-0.7
11/6/05 15:00	186	1.34112	20.6	10.3	-1.1	23	3.60	120	991.53	19.5	19.1	-0.4
11/6/05 16:00	144	0.89408	18.3	9.4	-0.6	28	2.06	120	991.20	18.5	18.9	0.4
11/6/05 17:00	143	0.44704	17.8	8.9	-1.7	27	1.54	130	991.20	15.7	17.4	1.6
11/6/05 18:00	237	0	14.4	7.6	-0.6	36	2.06	120	991.53	14.3	16.8	2.4
11/6/05 19:00	199	0	13.9	7.6	0	39	0.00	0	991.53	13.6	16.1	2.5
11/6/05 20:00	257	0	12.8	7.4	1.1	45	1.54	130	991.53	14.2	15.9	1.7
11/6/05 21:00	227	0	9.4	6.6	3.3	66	0.00	0	991.53	14	15.6	1.6
11/6/05 22:00	200	0	9.4	6.6	3.3	66	0.00	0	991.53	13.4	15.5	2.1
11/6/05 23:00	189	0	8.9	6.1	2.8	66	0.00	0	991.20	13.2	14.6	1.4
11/7/05 0:00	144	0	8.3	6.3	3.9	74	0.00	0	991.53	13.6	14.7	1.1
11/7/05 1:00	179	0	7.8	6	3.9	77	0.00	0	991.53	12.4	13.4	1
11/7/05 2:00	198	0	7.8	6	3.9	77	0.00	0	991.20	11.9	12.9	1
11/7/05 3:00	111	0.44704	6.7	5.4	3.9	83	0.00	0	991.20	11.5	12.2	0.7
11/7/05 4:00	214	0.44704	8.9	6.8	4.4	74	2.06	150	990.86	11.7	12.2	0.4
11/7/05 5:00	194	0	12.2	8.9	5.6	64	2.06	170	991.20	11.8	12.2	0.4
11/7/05 6:00	84	0	12.2	8.9	5.6	64	0.00	0	991.53	11.6	11.9	0.3
11/7/05 7:00	134	0	14.4	11.5	8.9	70	3.60	170	991.20	12	12.1	0.1
11/7/05 8:00	205	1.78816	16.1	13.3	11.1	72	5.66	180	991.53	13.9	13.6	-0.2
11/7/05 9:00	205	1.78816	18.3	15.4	13.3	73	5.66	180	991.53	17	16.4	-0.6
11/7/05 10:00	206	2.2352	23.3	18.8	16.1	64	5.14	200	991.20	20.4	19.9	-0.6
11/7/05 11:00	187	2.68224	26.7	20.3	16.7	54	6.17	210	989.84	25.1	24.3	-0.8
11/7/05 12:00	204	2.68224	28.3	21.1	17.2	51	6.69	200	989.83	27.8	27.1	-0.8
11/7/05 13:00	216	3.57632	30	21	16.1	43	9.26	200	987.81	28.5	28	-0.5
11/7/05 14:00	217	3.12928	30	20.7	15.6	42	6.69	210	987.47	29.5	28.9	-0.6
11/7/05 15:00	211	3.12928	28.3	20.5	16.1	48	8.23	190	987.47	28.8	28.7	-0.1
11/7/05 16:00	199	3.12928	27.2	20.1	16.1	51	8.23	180	987.47	27.4	27.7	0.3
11/7/05 17:00	201	2.68224	26.7	19.7	15.6	51	6.69	180	987.81	26	26.5	0.5
11/7/05 18:00	202	2.68224	26.1	19.2	15	50	6.17	190	988.49	24.6	25.1	0.5
11/7/05 19:00	205	1.78816	25	18.5	14.4	52	4.63	170	988.49	24	24.6	0.6
11/7/05 20:00	203	2.68224	23.9	18.1	14.4	55	5.66	170	989.16	23.4	24.2	0.8
11/7/05 21:00	204	2.2352	23.3	18.5	15.6	62	5.66	180	989.50	22.8	23.5	0.7
11/7/05 22:00	204	2.2352	22.8	18.6	16.1	66	5.14	180	989.50	21.7	22.4	0.7
11/7/05 23:00	202	2.2352	22.2	18.4	16.1	69	7.20	180	989.16	20.8	21.4	0.6
11/8/05 0:00	202	1.78816	21.7	18.2	16.1	71	4.63	170	989.50	20.3	20.9	0.7
11/8/05 1:00	197	2.2352	20.6	17.6	15.6	73	4.12	160	989.50	20.1	20.7	0.6
11/8/05 2:00	192	1.78816	18.9	16.9	15.6	81	4.12	160	989.16	19.8	20.3	0.5
11/8/05 3:00	193	1.78816	20	17.6	16.1	78	3.60	160	988.83	19.3	19.8	0.5
11/8/05 4:00	203	2.68224	20.6	18.2	16.7	78	5.66	170	988.49	19.4	19.8	0.5
11/8/05 5:00	207	2.68224	20.6	18.5	17.2	81	5.14	180	988.83	19.8	20.2	0.4
11/8/05 6:00	207	2.68224	20.6	18.5	17.2	81	7.20	190	988.83	19.5	19.9	0.4
11/8/05 7:00	207	2.68224	21.1	19	17.8	82	8.75	190	988.49	19.5	19.7	0.2
11/8/05 8:00	207	3.57632	22.8	19.9	18.3	76	10.29	200	989.16	21	20.8	-0.2
11/8/05 9:00	212	4.02336	23.9	20.7	18.9	74	8.75	200	989.16	22.4	22	-0.4
11/8/05 10:00	210	4.02336	25	21	18.9	69	10.29	210	988.49	24.2	23.7	-0.5
11/8/05 11:00	192	4.4704	27.2	21.4	18.3	58	11.32	200	987.13	26.1	25.5	-0.6
11/8/05 12:00	207	4.4704	28.3	21.1	17.2	51	10.29	190	986.12	27.3	26.7	-0.7
11/8/05 13:00	208	4.4704	28.9	21	16.7	48	10.29	210	985.10	28	27.5	-0.5
11/8/05 14:00	203	4.02336	28.3	20.5	16.1	48	10.29	200	985.10	28	27.8	-0.2
11/8/05 15:00	203	3.57632	27.8	20	15.6	47	6.69	200	985.10	27.3	27.4	0.2
11/8/05 16:00	200	2.68224	27.8	20	15.6	47	7.20	190	984.76	26.4	26.8	0.4
11/8/05 17:00	189	3.12928	26.7	20	16.1	52	7.72	190	984.76	25.2	26	0.8
11/8/05 18:00	205	3.12928	26.1	19.8	16.1	54	7.20	190	985.44	24	24.8	0.8
11/8/05 19:00	206	3.12928	25.6	19.6	16.1	56	5.66	190	985.78	23.8	24.4	0.6
11/8/05 20:00	209	2.2352	24.4	19.2	16.1	60	5.66	180	986.12	23.8	24.4	0.6
11/8/05 21:00	202	2.2352	23.9	19	16.1	62	4.63	190	986.45	23.4	24	0.6
11/8/05 22:00	206	2.2352	23.3	18.8	16.1	64	4.63	180	986.12	22.7	23.4	0.6
11/8/05 23:00	211	2.68224	22.8	19	16.7	69	4.63	180	985.78	22.5	23.1	0.6
11/9/05 0:00	211	2.68224	22.8	19	16.7	69	5.14	190	985.78	22.5	23	0.5
11/9/05 1:00	212	2.68224	23.3	18.8	16.1	64	7.20	200	985.78	22.3	22.8	0.5
11/9/05 2:00	212	2.2352	22.8	18.6	16.1	66	6.17	210	986.12	22.2	22.7	0.5
11/9/05 3:00	216	2.2352	22.2	18.4	16.1	69	3.09	220	986.45	21.2	21.7	0.5
11/9/05 4:00	270	0.89408	20	17.3								

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{ABS} (hPa)
11/5/05 6:00	80.9	2.5	3.4	0.9	5.5	0.5	156.3	9.3	1.3	0.01	0	970.5
11/5/05 7:00	80.4	2.1	2.9	0.8	5.2	0.6	161.5	10	78.8	0.28	0	970.95
11/5/05 8:00	71.3	3.4	4.5	1.1	7.6	0.9	177.1	11.4	253.8	0.91	0	971.41
11/5/05 9:00	60.7	4.3	5.4	1.1	9.4	1.1	179.6	12	417.1	1.5	0	971.15
11/5/05 10:00	50.8	4.6	5.7	1.1	9.5	1.1	192.9	11.9	537.5	1.94	0	971.1
11/5/05 11:00	44.4	4.3	5.2	1	8.4	0.9	190.6	11.7	604.9	2.18	0	970.72
11/5/05 12:00	39.8	4.1	5	0.9	8.2	1.1	190.7	14.3	609.2	2.19	0	970.09
11/5/05 13:00	33.8	4.9	6	1.1	10	1.2	198.8	11.1	554.3	2	0	969.54
11/5/05 14:00	31.8	4.9	6	1.1	10.5	1.3	207.3	12.9	447.8	1.61	0	969.69
11/5/05 15:00	38.1	4.3	5.3	1	11	1.5	239.9	16.6	293.9	1.06	0	970.99
11/5/05 16:00	54.2	4.1	5.2	1	10.5	1.6	242.4	16.3	113.2	0.41	0	972.73
11/5/05 17:00	63.6	3.2	4.1	1	7.6	1	233.6	13.2	5.6	0.02	0	974.2
11/5/05 18:00	58.2	2.4	3.2	0.8	6.3	0.9	250.1	16.5	-1	0	0	975.65
11/5/05 19:00	57.7	1.5	2.2	0.7	4.3	0.6	258.1	14.4	-1	0	0	976.65
11/5/05 20:00	57.8	0.9	1.9	0.9	4.1	0.5	264.2	15.2	-1	0	0	977.73
11/5/05 21:00	58.6	0.9	1.6	0.8	3.5	0.3	240.2	11.6	-1	0	0	978.74
11/5/05 22:00	64.3	1.1	1.7	0.6	3.5	0.4	242.8	11.6	-1	0	0	979.84
11/5/05 23:00	60	1.2	2.1	0.9	4.3	0.5	269.7	12.9	-1	0	0	980.6
11/6/05 0:00	56	1.8	2.8	1	6.2	0.8	293.2	15.8	-1	0	0	981.15
11/6/05 1:00	58.8	3	4.1	1.1	7.3	0.9	311.2	11.7	-1	0	0	981.66
11/6/05 2:00	60.7	2.4	3.4	1	6.3	0.8	314	12.3	-1	0	0	982.27
11/6/05 3:00	63.7	1.4	2.4	1	4.4	0.5	310.2	10.9	-1	0	0	982.96
11/6/05 4:00	68.2	1.8	2.9	1	5.1	0.5	318.3	10.5	-1	0	0	983.59
11/6/05 5:00	68.3	2.2	3.1	0.9	5	0.6	324	9.6	-1	0	0	984.29
11/6/05 6:00	69.8	1	1.8	0.8	4.4	0.4	242.7	12.1	1.5	0.01	0	985.07
11/6/05 7:00	78.9	0	0.4	0.4	1.6	0.2	235.4	5.2	83.5	0.3	0	985.92
11/6/05 8:00	61.8	1.2	1.6	0.4	3.9	0.5	101.3	15.4	236.1	0.85	0	986.44
11/6/05 9:00	55.3	1.4	1.7	0.4	3.8	0.5	63.1	20.1	380.6	1.37	0	986.9
11/6/05 10:00	50.3	1.1	1.5	0.4	3.1	0.5	110.3	20.4	497.1	1.79	0	987.2
11/6/05 11:00	41.1	0.9	1.2	0.2	3.1	0.5	134	24.2	605.8	2.18	0	987.04
11/6/05 12:00	33.1	1.2	1.5	0.3	3.8	0.5	96.6	25.1	626.5	2.26	0	986.51
11/6/05 13:00	28.7	1.2	1.6	0.3	5.2	0.6	123.3	26	572.2	2.06	0	985.6
11/6/05 14:00	25.1	1.8	2.1	0.4	5.2	0.6	140.4	19.1	461.4	1.66	0	985.09
11/6/05 15:00	25.1	1.7	2.2	0.5	4.7	0.6	150.6	18.2	306.3	1.1	0	984.73
11/6/05 16:00	26.8	0.7	1.5	0.8	2.9	0.3	126.8	13.3	129.2	0.47	0	984.59
11/6/05 17:00	31.7	0	1.2	1.2	1.9	0.1	119.3	3.8	6.1	0.02	0	984.39
11/6/05 18:00	33.6	0	1.5	1.5	2.5	0.2	122	4.6	-1	0	0	984.46
11/6/05 19:00	37.4	0.2	1.7	1.5	2.7	0.1	122.4	3.2	-1	0	0	984.6
11/6/05 20:00	32.8	1	2.1	1.1	3.1	0.3	133.1	6.4	-1	0	0	984.45
11/6/05 21:00	32.8	1.4	2.5	1.1	3.9	0.3	128.6	6.9	-1	0	0	984.56
11/6/05 22:00	35.2	1.4	2.5	1.1	3.5	0.3	136.1	5.8	-1	0	0	984.47
11/6/05 23:00	36.2	1	2	1	3.2	0.2	147.6	6.3	-1	0	0	984.25
11/7/05 0:00	38.1	2.1	2.9	0.8	5.7	0.6	157.1	10.9	-1	0	0	984.17
11/7/05 1:00	43.1	0.9	1.9	1	4.1	0.4	165.1	10.8	-1	0	0	984.2
11/7/05 2:00	47.3	1.4	2.3	0.9	3.9	0.4	150.7	9.2	-1	0	0	984.05
11/7/05 3:00	51.4	1.5	2.3	0.8	4.1	0.4	147.3	9.7	-1	0	0	983.87
11/7/05 4:00	52.4	2.1	2.8	0.8	5.1	0.5	143.4	9.5	-1	0	0	983.64
11/7/05 5:00	54.9	2.1	2.7	0.7	5.2	0.6	149.5	11.8	-1	0	0	983.76
11/7/05 6:00	59.6	2	2.6	0.6	4.7	0.6	154.3	12	3.6	0.01	0	983.82
11/7/05 7:00	65.2	1.8	2.4	0.6	4.8	0.7	163.4	14.9	35.4	0.13	0	983.81
11/7/05 8:00	70.7	2.2	2.7	0.5	6	0.7	174.3	13.9	166.8	0.6	0	983.99
11/7/05 9:00	72.9	3.3	3.8	0.6	7.6	0.9	156.3	11.7	369.8	1.33	0	984.11
11/7/05 10:00	68.9	3.2	3.8	0.6	6.8	0.8	155.7	12	379.5	1.37	0	983.89
11/7/05 11:00	57	4.9	6.1	1.2	11.4	1.2	170.3	11.8	595.3	2.14	0	982.99
11/7/05 12:00	47.1	6	7.7	1.7	12.3	1.5	187.8	11.6	584.4	2.1	0	982.04
11/7/05 13:00	43	5.9	7.5	1.5	12.9	1.4	190	11	478.2	1.72	0	981.06
11/7/05 14:00	39.3	5.4	6.7	1.3	11.5	1.3	188.3	12.3	510.2	1.84	0	980.57
11/7/05 15:00	41.2	5.2	6.6	1.5	10.5	1.3	174	11.9	284.9	1.03	0	980.39
11/7/05 16:00	45.6	4.3	5.6	1.3	9.7	1.2	167.9	10.6	70.8	0.25	0	980.49
11/7/05 17:00	51.2	3.8	4.9	1.2	9.7	0.9	166.3	9.5	4.6	0.02	0	980.76
11/7/05 18:00	56.8	3.1	4	0.8	7	0.7	154	9.7	0	0	0	981.37
11/7/05 19:00	57.7	3.5	4.5	1.1	7.2	0.9	163.6	9.1	-0.1	0	0	981.54
11/7/05 20:00	58.2	2.8	3.8	1	6.7	0.6	168	8.9	0	0	0	982.13
11/7/05 21:00	61.6	3.1	4	0.9	6.8	0.7	161.2	9.4	0	0	0	982.51
11/7/05 22:00	66.6	2.7	3.7	0.9	6.3	0.6	159.3	8.8	-0.5	0	0	982.41
11/7/05 23:00	70.4	3	3.9	0.9	5.9	0.6	160.2	8.6	-0.8	0	0	982.3
11/8/05 0:00	73	2.9	3.8	0.9	7.1	0.6	157.3	8.3	-1	0	0	982.41
11/8/05 1:00	74.6	3.2	4.1	0.9	8.8	0.7	156.9	9.1	-0.9	0	0	982.35
11/8/05 2:00	77	3.1	3.9	0.8	8.7	0.7	152.3	9.8	-0.9	0	0	982.04
11/8/05 3:00	79.8	3.4	4.3	0.9	7.7	0.7	156.4	9.8	-0.9	0	0	981.68
11/8/05 4:00	80.8	3.8	5	1.1	8.6	0.8	163.1	8.6	-0.9	0	0	981.43
11/8/05 5:00	81.2	3.6	5.1	1.4	8.8	0.9	172.3	8.4	-0.8	0	0	981.62
11/8/05 6:00	83.3	4	5.5	1.4	9.2	0.9	173.2	8.8	0.7	0	0	981.74
11/8/05 7:00	85.5	4.1	5.4	1.3	8.5	1	168.9	9.4	66.1	0.24	0	981.62
11/8/05 8:00	81.2	4.6	5.9	1.3	9.8	1.1	168.3	10.1	225.3	0.81	0	981.94
11/8/05 9:00	77.1	4.9	5.9	1	9.5	1.1	164.5	10.9	336.2	1.21	0	981.97
11/8/05 10:00	70.3	5.4	6.8	1.4	11.8	1.3	169	11.6	389.8	1.4	0	981.49
11/8/05 11:00	59.3	6.9	8.7	1.8	14.2	1.6	177.8	11.8	515	1.85	0	980.36
11/8/05 12:00	52.6	6.8	8.5	1.7	13.3	1.5	174.5	10.8	556.9	2	0	979.29
11/8/05 13:00	48.8	6	7.6	1.6	13.1	1.5	172	12	478.3	1.72	0	978.29
11/8/05 14:00	46.8	5.8	7.5	1.6	12.7	1.4	176	11.3	323	1.16	0	977.86
11/8/05 15:00	47.8	5.7	7.4	1.7	12.5	1.3	176.6	10.8	162.3	0.58	0	977.85
11/8/05 16:00	50.8	4.2	5.7	1.5	11.1	1.2	175	9.8	64.1	0.23	0	977.85
11/8/05 17:00	53.7	2.9	4	1.1	7.4	0.6	166.5	8.3	5.3	0.02	0	977.89
11/8/05 18:00	59.1	2.8	3.8	1	6.7	0.6	160.3	8.7	0	0	0	978.35
11/8/05 19:00	63.4	3.4	4.5	1.1	7.3	0.7	165.8	8.6	0	0	0	978.71
11/8/05 20:00	64.3	4.1	5.6	1.5	9.5	1.1	171.8	9	0	0	0	979.02
11/8/05 21:00	64.4	4.2	5.5	1.3	8.9	0.8	168.8	8.5	0	0	0	979.32
11/8/05 22:00	66.1	4	5.4	1.4	9.2	0.9	169.9	8.5	0	0	0	979.3
11/8/05 23:00	67.2	4.1	5.6	1.5	8.4	0.9	175.8	8.5	0	0	0	978.91
11/9/05 0:00	67	4.2	5.5	1.3	9.1	0.9	182.9	9	0	0	0	978.86
11/9/05 1:00	67.1	4.1	5.3	1.2	9.4	0.9	193.3	8.9	0	0	0	978.82
11/9/05 2:00	66.8	4	5.2	1.2	10	0.9	196.3	8.7	0	0	0	979.14
11/9/05 3:00	70.4	2.5	3.4	0.9	7.3	0.6	220.8	10.4	-0.1	0	0	979.92
11/9/05 4:00	76.3	1.2	2	0.8	5	0.5	289.1	12.8	0	0	0	981.22
11/9/05 5:00	73.8	4.7	6	1.3	12.2	1.2	37.6	11.9	-0.3	0	0	982.47
11/9/05 6:00	63.1	5.1	6.3	1.3	10.9	1.4	17.6	12.3	-0.2	0	0	983.88
11/9/05 7:00	52.7	4.8	5.8	1	12	1.4	22.6	13.9	32.8	0.12	0	985.47
11/9/05 8:00	45.7	4.5	5.4	0.9	11.8	1.3	27.4	14.2	168.3	0.61	0	986.75
11/9/05 9:00	38.5	5	6	1	10.9	1.4	29.2					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127								RH (%)
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	
11/9/05 21:00	0.02937	13.4	0.7	3.1	202.5	8.9	0.023	0.002	0.01	0.012	8.8	11.67	37
11/9/05 22:00	0.028	12.8	0.8	4	90	8	0.022	0.001	0.009	0.01	9.1	10.56	41
11/9/05 23:00	0.02658	12.2	0.8	3.1	112.5	7.6	0.022	0.001	0.009	0.01	9.1	9.44	45
11/10/05 0:00	0.02694	11.4	0.5	5.8	45	13	0.022	0	0.007	0.007	10.7	8.33	48
11/10/05 1:00	0.02615	11.6	0.6	5.8	22.5	11.6	0.023	0	0.004	0.004	8.6	7.78	50
11/10/05 2:00	0.02631	11.8	0.4	4.5	22.5	9.8	0.023	0	0.005	0.005	10.8	7.22	51
11/10/05 3:00	0.02595	11.4	1.1	3.6	22.5	9.4	0.021	0.001	0.006	0.007	11	6.67	54
11/10/05 4:00	0.01426	11.3	0.9	6.3	22.5	11.6	0.018	0	0.007	0.007	10.1	5.56	59
11/10/05 5:00	0.0198	10.9	1.7	2.2	0	8.9	0.014	0.006	0.011	0.017	12	5.00	62
11/10/05 6:00	0.01851	8.8	2.1	2.2	22.5	5.4	0.005	0.016	0.017	0.033	13.1	2.78	72
11/10/05 7:00	0.01509	8.4	1.6	2.2	247.5	4.9	0.001	0.029	0.02	0.049	14.5	3.33	76
11/10/05 8:00	0.01931	8	0.6	2.7	247.5	6.7	0.008	0.028	0.021	0.049	13.3	7.22	54
11/10/05 9:00	0.01371	9.5	6.7	2.2	112.5	5.4	0.013	0.019	0.018	0.037	17.8	10.00	43
11/10/05 10:00	0.0103	18.8	10.6	1.3	112.5	4.5	0.016				16.3	12.22	37
11/10/05 11:00	0.01083	26.7	6.4	0.9	112.5	3.1	0.018	0.019	0.02	0.038	20.9	14.44	30
11/10/05 12:00	0.01328	29.9	7.8	0.4	90	2.7	0.023	0.011	0.017	0.027	16.5	16.67	25
11/10/05 13:00	0.01496	31.5	5.7	0.9	90	3.1	0.027	0.007	0.015	0.022	16.1	18.89	19
11/10/05 14:00	0.01839	33.8	3.3	0.9	180	4	0.025	0.009	0.02	0.03	16.9	20.00	17
11/10/05 15:00	0.02541	31.6	2.7	0.9	202.5	3.6	0.03	0.004	0.015	0.019	12.4	20.56	16
11/10/05 16:00	0.02557	29.2	3.9	0.4	180	1.8	0.027	0.002	0.022	0.023	13.8	20.00	19
11/10/05 17:00	0.02808	22.6	8.6	1.8	202.5	4	0.003	0.044	0.044	0.088	14.5	15.56	30
11/10/05 18:00	0.03349	17.6	1.1	3.6	202.5	5.8	0.001	0.063	0.042	0.106	20.4	12.22	45
11/10/05 19:00	0.02098	16.8	0.5	5.4	202.5	6.7	0.001	0.111	0.038	0.148	23.2	10.00	56
11/10/05 20:00	0.03377	16.9	0.4	6.3	202.5	8.9	0.001	0.145	0.031	0.176	24.2	8.33	64
11/10/05 21:00	0.03458	16.8	0.5	7.6	202.5	10.7	0.001	0.138	0.029	0.167	25.1	7.22	71
11/10/05 22:00	0.03783	16.3	0.5	8.9	202.5	12.5	0.001	0.171	0.024	0.194	30.6	7.22	74
11/10/05 23:00	0.03862	16.3	0.5	12.5	202.5	15.6	0.002	0.073	0.028	0.102	24.2	8.89	61
11/11/05 0:00	0.03226	15.4	0.8	7.6	180	13.9	0.001	0.034	0.029	0.063	16.6	9.44	60
11/11/05 1:00	0.02825	15.5	0.6	3.1	0	6.7	0	0.056	0.026	0.082	20	7.78	68
11/11/05 2:00	0.03307	15.3	0.3	4.9	22.5	8.5	0.001	0.015	0.028	0.043	21.6	8.33	64
11/11/05 3:00	0.03338	14.7	1.5	3.6	22.5	8.9	0.001	0.001	0.023	0.024	24.8	9.44	58
11/11/05 4:00	0.03472	13.3	1.3	3.6	180	9.4	0.007	0.002	0.023	0.025	30.1	8.33	64
11/11/05 5:00	0.03552	13	0.5	6.7	180	11.2	0.014	0	0.016	0.016	26.3	8.89	61
11/11/05 6:00	0.02976	12.3	1.2	8.5	180	12.1	0.013	0	0.017	0.017	24.3	8.89	60
11/11/05 7:00	0.02905	11.8	0.3	6.7	180	12.5	0.007	0.007	0.026	0.037	60.6	9.44	60
11/11/05 8:00	0.03187	12.1	0.5	11.2	180	14.3	0.011	0.014	0.025	0.038	50.2	11.67	51
11/11/05 9:00	0.029	12.2	2.1	12.1	180	16.5	0.011	0.014	0.025	0.038	50.2	11.67	51
11/11/05 10:00	0.03184	15.8	4.3	8	180	14.3	0.036	0.003	0.014	0.017	62.3	17.78	40
11/11/05 11:00	0.03474	20.3	5	8	180	11.2	0.043	0.002	0.011	0.013	34.3	20.00	37
11/11/05 12:00	0.04162	22.3	1.7	7.6	202.5	13	0.046	0.001	0.008	0.009	22.2	22.22	33
11/11/05 13:00	0.04534	23.8	1.9	7.6	180	12.5	0.051	0.001	0.007	0.008	19.1	23.33	31
11/11/05 14:00	0.05125	24.2	1.7	8	202.5	14.8	0.053	0	0.007	0.008	19.2	23.89	30
11/11/05 15:00	0.05232	23.8	1.3	8	202.5	13.4	0.051	0	0.009	0.009	18.3	23.89	30
11/11/05 16:00	0.05219	23.3	1.6	8	202.5	11.6	0.045	0	0.014	0.014	19.3	23.33	32
11/11/05 17:00	0.05252	21.9	1.7	8.5	180	13	0.042	0	0.023	0.024	32.9	21.67	36
11/11/05 18:00	0.06023	20.1	1.1	8.5	202.5	13.9	0.045	0	0.018	0.018	48.9	20.56	39
11/11/05 19:00	0.05527	19.2	0.9	8.9	202.5	14.8	0.042	0	0.016	0.016	36	19.44	44
11/11/05 20:00	0.05271	18.3	1.1	8.9	202.5	16.1	0.048	0	0.011	0.01	33.8	18.89	47
11/11/05 21:00	0.05446	17.4	0.6	9.8	202.5	18.3	0.046	0	0.008	0.008	33.4	18.33	49
11/11/05 22:00	0.04923	16.7	1	10.7	202.5	17	0.042	0	0.009	0.009	29.5	17.78	53
11/11/05 23:00	0.04623	16.2	0.2	13	202.5	17.9	0.041	0	0.008	0.007	26.5	17.22	57
11/12/05 0:00	0.04547	15.9	0.3	13.4	202.5	18.3	0.041	0	0.007	0.006	28	17.22	59
11/12/05 1:00	0.0442	16	0.2	12.5	202.5	16.5	0.04	0	0.006	0.006	29.1	17.78	60
11/12/05 2:00	0.04242	16.1	0.1	12.1	202.5	17	0.038	0	0.007	0.006	28.9	17.78	65
11/12/05 3:00	0.04012	16.3	0.4	12.5	202.5	17	0.035	0	0.006	0.006	31	18.33	68
11/12/05 4:00	0.03744	16.7	0.4	12.1	202.5	16.5	0.035	0	0.006	0.005	31.4	18.33	72
11/12/05 5:00	0.03576	16.9	0.2	10.3	202.5	15.6	0.033	0	0.006	0.006	31.9	18.89	75
11/12/05 6:00	0.03291	17.3	0.7	11.6	202.5	16.5	0.029	0	0.007	0.006	38	20.00	78
11/12/05 7:00	0.02618	18.3	1.1	10.7	202.5	17.9	0.026	0	0.006	0.005	31.5	20.56	77
11/12/05 8:00	0.02513	18.9	0.5	13.9	202.5	21	0.024	0	0.005	0.005	22.7	21.11	76
11/12/05 9:00	0.01908	18.8	1	12.1	180	20.1	0.02	0	0.007	0.007	24.8	20.56	80
11/12/05 10:00	0.01697	18.9	0.8	8.9	180	18.3	0.02	0	0.006	0.006	21.6	21.67	77
11/12/05 11:00	0.01625	19.8	1.5	8.9	180	19.7	0.021	0.001	0.006	0.007	19.8	22.78	72
11/12/05 12:00	0.01929	21	1.4	9.4	180	20.6	0.025	0	0.004	0.004	15.8	23.89	65
11/12/05 13:00	0.02147	23.4	5.4	6.7	180	18.3	0.03	0	0.003	0.004	16.8	26.11	50
11/12/05 14:00	0.02679	27.2	2.9	5.8	0	15.6	0.034	0	0.003	0.003	13	26.67	43
11/12/05 15:00	0.03072	27.3	2.4	5.8	0	15.2	0.034	0	0.005	0.005	12.8	27.22	40
11/12/05 16:00	0.03257	26.4	1.2	5.4	22.5	14.3	0.033	0	0.007	0.007	14.4	27.22	38
11/12/05 17:00	0.03464	25.7	1.3	4.9	0	15.6	0.031	0	0.004	0.003	9.6	26.11	21
11/12/05 18:00	0.03953	25.7	2.7	2.7	90	14.8	0.03	0	0.013	0.012	9	22.78	24
11/12/05 19:00	0.03836	22.1	0.4	2.2	90	9.4	0.007	0.02	0.035	0.055	9	19.44	32
11/12/05 20:00	0.03907	21.9	0.8	2.2	22.5	9.4	0	0.062	0.03	0.092	15.5	15.56	50
11/12/05 21:00	0.03862	21	1.2	2.7	292.5	9.8	0	0.059	0.029	0.088	15.2	13.33	58
11/12/05 22:00	0.03284	19.4	1.4	0	180	13	0	0.089	0.025	0.115	14.5	12.22	66
11/12/05 23:00	0.03177	18.7	0.3	0.4	180	1.8	0	0.1	0.021	0.121	17.5	10.56	74
11/13/05 0:00	0.02657	18.5	0.4	0.4	135	1.8	0	0.125	0.022	0.147	15.9	10.00	76
11/13/05 1:00	0.02409	19	1.4	1.3	315	5.4	0	0.109	0.02	0.129	16.1	8.89	80
11/13/05 2:00	0.02741	19	0.2	2.2	315	4	0	0.049	0.022	0.072	18.7	8.89	76
11/13/05 3:00	0.02674	18.2	3.8	2.7	225	8	0.02	0.004	0.008	0.012	17.1	13.89	57
11/13/05 4:00	0.02491	14.8	1.4	4	225	8	0.025	0	0.002	0.002	11.1	14.44	52
11/13/05 5:00	0.02551	13.7	1	4.5	225	10.3	0.028	0	0.001	0.001	13.3	12.78	51
11/13/05 6:00	0.02722	12.8	0.8	4	202.5	13.9	0.028	0	0.002	0.002	8.8	11.67	54
11/13/05 7:00	0.02769	12.1	0.8	5.8	45	13.4	0.024	0.001	0.005	0.006	6.7	10.56	57
11/13/05 8:00	0.02783	11.9	0.3	4.9	45	8.9	0.025	0.002	0.005	0.007	14.6	11.67	54
11/13/05 9:00	0.02717	12.2	2.4	6.3	45	13.4	0.029	0.002	0.003	0.005	8.7	13.33	45
11/13/05 10:00	0.02844	17.9	6.6	4.9	45	13.4	0.032	0.002	0.00				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
11/9/05 21:00	35	2.2352	11.1	5.4	-2.2	40	4.12	10	998.98	10.6	11.1	0.5
11/9/05 22:00	34	1.78816	8.3	4.1	-1.7	50	4.12	360	999.32	9.9	10.3	0.4
11/9/05 23:00	31	1.34112	7.8	3.9	-1.7	51	3.60	360	998.98	9.3	9.7	0.4
11/10/05 0:00	34	1.34112	8.3	4.1	-1.7	50	4.12	20	998.98	8.8	9.2	0.4
11/10/05 1:00	49	1.78816	5.6	2.9	-1.1	62	2.57	360	999.32	8.3	8.7	0.4
11/10/05 2:00	49	2.2352	4.4	2.2	-1.1	68	3.09	350	999.66	7.5	7.6	0.3
11/10/05 3:00	34	2.2352	4.4	2	-1.7	65	2.57	350	999.66	6.2	6.5	0.3
11/10/05 4:00	36	1.78816	4.4	2	-1.7	65	3.09	20	999.66	5.2	5.6	0.4
11/10/05 5:00	51	0.89408	3.3	1.3	-1.7	70	2.06	10	999.32	4.5	4.9	0.4
11/10/05 6:00	129	0.44704	3.9	1.7	-1.7	67	0.00	0	999.66	4.1	4.5	0.4
11/10/05 7:00	246	0.44704	5.6	3.3	0	68	1.54	310	1000.34	4.9	5	0.2
11/10/05 8:00	145	0.44704	8.3	4.7	0	56	1.54	20	1000.34	7.5	7	-0.5
11/10/05 9:00	76	0.89408	10	5	-1.7	44	0.00	0	1000.34	9.8	9	-0.8
11/10/05 10:00	131	0.89408	13.3	6.6	-2.2	34	1.54	0	1000.00	12	11.1	-0.9
11/10/05 11:00	103	1.34112	16.1	7.4	-3.9	25	0.00	0	998.98	14.5	13.7	-0.8
11/10/05 12:00	192	0.89408	17.8	7.8	-5.6	20	1.54	170	997.63	16.6	15.6	-1
11/10/05 13:00	203	0.89408	18.3	8	-5.6	19	2.06	200	996.61	18.1	17.2	-0.9
11/10/05 14:00	226	1.34112	19.4	8.4	-6.1	17	1.54	160	995.94	18.8	18	-0.8
11/10/05 15:00	204	0.89408	20	8.7	-6.1	17	2.57	140	995.26	18.9	18.5	-0.4
11/10/05 16:00	192	0.44704	18.3	8.5	-3.9	22	2.06	190	994.58	17.4	18	0.7
11/10/05 17:00	186	0.44704	16.1	7.7	-2.8	27	0.00	0	993.90	15	16.9	1.9
11/10/05 18:00	215	0.44704	15.6	7.8	-1.7	31	1.54	190	994.24	14.2	16.4	2.2
11/10/05 19:00	253	0	11.7	6.7	0.6	47	2.57	160	993.90	12.9	15.7	2.9
11/10/05 20:00	248	0	12.8	6.8	-0.6	40	3.09	170	993.90	12.8	15.1	2.3
11/10/05 21:00	263	0	13.3	7.1	-0.6	39	4.12	180	993.90	12.2	14	1.8
11/10/05 22:00	203	0	13.3	7.1	-0.6	39	4.63	180	993.90	11.6	13.2	1.6
11/10/05 23:00	200	0.44704	12.2	6.7	0	43	4.12	170	993.57	11.4	12.5	1.1
11/11/05 0:00	183	0	11.1	6.4	0.6	49	2.57	180	993.23	11.7	12.7	1
11/11/05 1:00	213	0	11.7	6.7	0.6	47	3.60	190	993.57	11.7	12.6	0.9
11/11/05 2:00	252	0.44704	12.2	6.9	0.6	45	4.12	180	993.23	12.1	12.9	0.7
11/11/05 3:00	181	0.89408	10.6	6.3	1.1	52	2.57	180	992.89	11	11.9	0.9
11/11/05 4:00	199	0.44704	9.4	5.7	1.1	57	3.09	150	992.55	10.7	11.6	0.9
11/11/05 5:00	210	0.89408	10	6	1.1	54	4.12	180	992.89	9.4	10.6	1.2
11/11/05 6:00	210	0.89408	9.4	5.7	1.1	57	2.57	160	992.89	8.6	9.8	1.2
11/11/05 7:00	202	1.34112	10.6	6.3	1.1	52	4.63	180	993.23	9	9.5	0.5
11/11/05 8:00	200	2.2352	13.3	7.9	1.7	46	4.63	180	992.89	11.6	11.4	-0.3
11/11/05 9:00	202	2.68224	16.1	9.6	2.8	41	7.72	190	992.55	14.4	13.9	-0.6
11/11/05 10:00	204	3.12928	18.3	11.1	3.9	39	7.20	180	992.21	17.6	16.8	-0.7
11/11/05 11:00	197	3.57632	20.6	12.5	5	36	8.75	180	990.86	19.6	18.8	-0.8
11/11/05 12:00	201	3.57632	22.2	13.1	5	33	7.20	190	989.16	21.4	20.5	-0.9
11/11/05 13:00	202	4.02336	22.8	13.4	5	32	7.72	180	988.15	22.6	21.8	-0.8
11/11/05 14:00	204	3.57632	23.3	14	6.1	33	6.17	180	987.47	22.7	22.2	-0.5
11/11/05 15:00	199	3.12928	23.3	13.8	5.6	32	7.20	170	986.79	22.6	22.4	-0.1
11/11/05 16:00	199	3.12928	22.2	13.3	5.6	34	6.69	180	986.45	21.7	22	0.3
11/11/05 17:00	187	2.68224	20	12.6	6.1	41	5.14	170	986.12	20.2	20.8	0.6
11/11/05 18:00	191	3.12928	20	12.9	6.7	42	7.20	180	986.12	18.9	19.6	0.7
11/11/05 19:00	188	3.12928	18.9	12.4	6.7	45	5.66	170	986.12	18.1	18.7	0.6
11/11/05 20:00	191	3.57632	18.3	12.2	6.7	47	6.17	170	985.78	17.3	17.8	0.5
11/11/05 21:00	192	3.57632	17.8	12.2	7.2	50	6.17	180	985.44	17	17.5	0.5
11/11/05 22:00	193	2.68224	17.2	12.2	7.8	54	6.17	170	985.44	16.9	17.3	0.4
11/11/05 23:00	195	3.12928	17.2	12.4	8.3	56	6.69	170	984.76	16.6	17	0.4
11/12/05 0:00	201	2.68224	17.2	12.7	8.9	58	6.17	180	984.42	16.6	16.8	0.2
11/12/05 1:00	204	2.68224	17.2	12.9	9.4	60	4.12	170	983.75	16.4	16.8	0.4
11/12/05 2:00	198	2.68224	18.3	14.8	11.1	65	5.14	170	983.07	16.4	16.8	0.3
11/12/05 3:00	192	3.12928	18.3	14.8	12.2	68	6.3	170	982.39	17.1	17.4	0.2
11/12/05 4:00	192	3.12928	18.3	15.4	13.3	73	5.66	170	981.71	17.6	17.8	0.2
11/12/05 5:00	198	3.57632	19.4	16.4	14.4	73	8.75	180	981.04	17.9	18.1	0.1
11/12/05 6:00	200	4.02336	20	17.6	16.1	78	8.23	180	981.04	18.8	19	0.1
11/12/05 7:00	198	4.4704	20.6	17.8	16.1	76	7.20	170	980.70	20.2	20.3	0.1
11/12/05 8:00	200	4.02336	21.1	18.4	16.7	76	7.72	180	981.04	20.3	20.4	0.2
11/12/05 9:00	207	4.02336	21.1	18.7	17.2	79	8.23	190	980.70	20.1	20.3	0.1
11/12/05 10:00	206	4.91744	22.2	19	17.2	73	11.32	200	980.36	20.9	20.9	0
11/12/05 11:00	208	5.36448	23.3	19.4	17.2	69	8.75	210	979.68	22.3	22.1	-0.2
11/12/05 12:00	210	4.91744	25	20	17.2	62	10.80	190	979.00	24.6	24	-0.5
11/12/05 13:00	215	4.91744	26.1	19.1	15	50	8.75	200	978.33	25.9	25.4	-0.5
11/12/05 14:00	217	4.4704	27.2	18.6	13.3	42	8.75	200	978.33	26.5	26.1	-0.4
11/12/05 15:00	216	4.02336	26.7	18.8	13.9	45	7.72	200	978.33	26.8	26.8	0
11/12/05 16:00	218	2.68224	26.1	18.6	13.9	47	6.69	200	979.34	26.5	27	0.5
11/12/05 17:00	263	2.2352	22.8	12.1	1.7	25	4.12	270	980.70	23.8	24.7	0.9
11/12/05 18:00	270	0.89408	20	11.1	2.2	31	4.12	280	982.39	21	22.6	1.7
11/12/05 19:00	270	0.44704	21.7	11.7	1.7	27	2.06	250	983.41	19.8	21.2	1.3
11/12/05 20:00	210	0.44704	16.1	9.8	3.3	40	0.00	0	984.42	17.0	20.5	3.5
11/12/05 21:00	227	0.44704	15.6	9.8	3.9	46	0.00	0	985.10	17.6	20.5	4.8
11/12/05 22:00	136	0.44704	13.3	9.2	5	57	0.00	0	986.12	15.1	19.4	4.2
11/12/05 23:00	210	0.44704	13.9	9.5	5	55	1.54	160	986.12	14.3	18.5	4.2
11/13/05 0:00	196	0.44704	10.6	7.9	5	69	0.00	0	986.45	16.6	18.8	2.2
11/13/05 1:00	192	0.44704	10	7.3	4.4	68	0.00	0	987.47	16.3	18.5	2.2
11/13/05 2:00	238	0.44704	10	7.9	5.6	74	1.54	350	989.16	14.7	15.2	0.5
11/13/05 3:00	122	2.68224	12.2	9.2	6.1	67	4.12	360	990.52	13.9	14.3	0.4
11/13/05 4:00	47	3.57632	13.3	9	4.4	55	5.66	10	991.53	12.9	13.2	0.3
11/13/05 5:00	35	4.02336	12.2	8	3.3	55	5.14	20	992.89	11.7	12.1	0.4
11/13/05 6:00	38	3.12928	11.1	7.2	2.8	57	4.12	30	993.90	10.6	11	0.4
11/13/05 7:00	35	2.2352	11.1	7.2	2.8	57	4.12	20	995.94	9.9	10.1	0.2
11/13/05 8:00	40	2.68224	13.3	7.9	1.7	46	6.69	30	996.61	11.2	11	-0.2
11/13/05 9:00	42	4.4704	14.4	7.6	-0.6	36	7.20	40	997.63	13.4	12.9	-0.5
11/13/05 10:00	43	5.36448	16.1	8.4	-0.6	32	6.17	20	997.97	15.2	14.6	-0.6
11/13/05 11:00	44	4.91744	17.8	8.9	-1.7	27	5.66	30	997.29	16.7	16	-0.8
11/13/05 12:00	42	5.81152	18.3	8	-5.6	19	7.72	30	996.61	17.3	16.6	-0.7
11/13/05 13:00	45	5.36448	19.4	8.4	-6.1	17	6.69	30	996.28	17.5	16.8	-0.7
11/13/05 14:00	44	4.91744	18.9	7.5	-9.4	14	7.20	20	996.28	17.3	16.8	-0.5
11/13/05 15:00	44	4.4704	17.8	7.3	-7.8	17	6.69	30	996.28	16.5	16.3	-0.2
11/13/05 16:00	48	4.02336	16.1	6.4	-7.8	19	4.63	30	996.28	15.3	15.7	0.3
11/13/05 17:00	39	2.2352	13.9	5.7	-6.1	25	4.12	20	996.28	12.9	14.1	1.2
11/13/05 18:00	39	2.2352	13.3	5.4	-6.1	26	3.60	30	996.61	11.4	12.3	0.9
11/13/05 19:00	37	1.78816										

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
11/9/05 21:00	36.5	2.5	3.1	0.7	6.6	0.8	32.3	14.4	-1	0	0	991.91
11/9/05 22:00	38.3	3.5	4.3	0.8	7.9	0.9	31.1	13	-1	0	0	992.05
11/9/05 23:00	40.3	3.2	3.9	0.7	8.2	1	36	13.4	-1	0	0	991.89
11/10/05 0:00	41.6	3	3.7	0.7	7.2	0.8	35.4	12.5	-1	0	0	992.04
11/10/05 1:00	43.3	3.3	4.1	0.7	6.9	0.8	35.4	11.8	-1	0	0	992.16
11/10/05 2:00	46.2	3	4	0.7	7.9	0.9	43.2	12.3	-1	0	0	992.5
11/10/05 3:00	51.9	3.2	4	0.7	6.8	0.8	49.5	11.9	-1	0	0	992.48
11/10/05 4:00	56.8	2.7	3.4	0.6	5.4	0.7	52.1	11.2	-1	0	0	992.47
11/10/05 5:00	59.9	2.2	2.9	0.7	4.8	0.5	55.7	10.2	-1	0	0	992.31
11/10/05 6:00	62.9	2.3	3	0.8	4.9	0.5	58.6	10.5	0.6	0	0	992.29
11/10/05 7:00	61.3	1.1	1.7	0.6	3.4	0.3	66.2	10.3	72.8	0.26	0	992.8
11/10/05 8:00	51.6	0.9	1.3	0.4	2.9	0.3	90.2	18.6	254.8	0.92	0	993.24
11/10/05 9:00	41.9	1.8	2.1	0.3	4.5	0.6	139.9	16.8	393.5	1.42	0	993.35
11/10/05 10:00	34.6	1	1.4	0.3	3.4	0.6	110.2	21.3	525.1	1.89	0	993.07
11/10/05 11:00	26.1	1.1	1.3	0.2	2.9	0.5	137.8	26.8	580.2	2.09	0	992.34
11/10/05 12:00	21.9	1.3	1.5	0.2	3.8	0.6	134.8	21.7	619.8	2.23	0	991.05
11/10/05 13:00	19.6	1.2	1.4	0.3	4.5	0.6	156.8	24.7	569.8	2.05	0	990.01
11/10/05 14:00	19.4	1.7	2	0.3	3.9	0.7	192.8	19.6	457.3	1.65	0	989.34
11/10/05 15:00	20.1	1.6	2	0.4	4.1	0.6	174	17.4	291.1	1.05	0	988.7
11/10/05 16:00	23.3	0.8	1.6	0.7	2.5	0.2	141.5	8.1	100.7	0.36	0	988
11/10/05 17:00	26.8	0.6	1.8	1.2	2.7	0.2	143.5	4.3	3.3	0.01	0	987.22
11/10/05 18:00	28.4	0.6	1.9	1.3	2.5	0.2	150.3	5	-1	0	0	987.14
11/10/05 19:00	32.4	0.5	2.2	1.7	3.5	0.3	179.1	6.4	-1	0	0	987.13
11/10/05 20:00	35.3	1.1	2.5	1.4	3.7	0.3	187.8	6.5	-1	0	0	986.97
11/10/05 21:00	39.3	1.2	2.4	1.2	3.9	0.3	161.1	7.4	-0.9	0	0	986.89
11/10/05 22:00	43.6	1.6	2.8	1.3	4.1	0.3	162.8	7	-0.8	0	0	986.78
11/10/05 23:00	43.6	2.1	3.3	1.2	5.4	0.5	166.2	7.7	-0.8	0	0	986.61
11/11/05 0:00	43.3	2	3.3	1.2	5.9	0.5	176.8	8.3	-0.8	0	0	986.36
11/11/05 1:00	43.9	2.5	3.7	1.2	5.2	0.5	191.5	6.6	-0.4	0	0	986.17
11/11/05 2:00	42.1	2.9	4	1.1	5.8	0.6	187.9	7.3	-0.4	0	0	986.13
11/11/05 3:00	46.5	2	3.3	1.3	5.1	0.5	177.8	7.3	-0.8	0	0	985.63
11/11/05 4:00	48.9	2	3.2	1.2	5.3	0.5	172.4	7.1	-1	0	0	985.35
11/11/05 5:00	54.8	1	2.1	1.1	3.6	0.3	171.1	6.4	-1	0	0	985.5
11/11/05 6:00	59.3	1.3	2.5	1.2	3.8	0.3	175.1	7.3	0.1	0	0	985.58
11/11/05 7:00	59.3	2.4	3.3	0.9	5.6	0.5	162.1	8.5	52.8	0.19	0	985.73
11/11/05 8:00	51.6	4	5	1	7.6	0.8	165.5	9.4	233	0.84	0	985.79
11/11/05 9:00	46	4.3	5.2	0.9	8.6	0.9	161.8	10.4	372	1.34	0	985.42
11/11/05 10:00	43.4	4.6	5.8	1.1	9.8	1.1	165.8	11.7	494.2	1.78	0	984.81
11/11/05 11:00	38.9	5.3	6.6	1.3	10.9	1.2	168.5	11.1	577.6	2.08	0	983.75
11/11/05 12:00	33.4	5	6.2	1.2	10.6	1.2	169.3	12.5	598.4	2.15	0	982.26
11/11/05 13:00	31.3	4.8	5.8	1	9.9	1.2	159.4	13.6	541.9	1.95	0	981.15
11/11/05 14:00	31.2	5	6.3	1.2	10.6	1.1	164.3	11.2	434.3	1.56	0	980.45
11/11/05 15:00	32.3	4.6	5.8	1.2	9.1	1.1	160.9	10.9	278.9	1	0	979.79
11/11/05 16:00	34.4	4.3	5.2	0.9	9.1	0.9	152.4	10.4	108.1	0.39	0	979.3
11/11/05 17:00	39.2	3.8	4.8	0.9	8.1	0.9	147.9	9.8	4.3	0.02	0	978.9
11/11/05 18:00	42.9	3.5	4.4	0.8	7.1	0.8	176.9	9.9	0	0	0	978.9
11/11/05 19:00	46.2	3.8	4.7	0.9	7.7	0.9	174.8	10.2	0	0	0	978.82
11/11/05 20:00	51.8	3.4	4.2	0.8	8.4	0.9	167.8	11.1	-0.1	0	0	978.62
11/11/05 21:00	53.3	4	4.9	0.9	8.4	1	173.1	10.5	0	0	0	978.48
11/11/05 22:00	55.5	4.5	5.5	1	9.2	1.1	178.6	10.9	0	0	0	978.3
11/11/05 23:00	59.1	4.3	5.3	0.9	9.5	1.2	177.3	11.3	0	0	0	977.81
11/12/05 0:00	61	4.1	4.9	0.9	9.3	1.1	180.4	11.4	0	0	0	977.42
11/12/05 1:00	64.5	3.7	4.6	0.8	7.5	1	178.3	11.1	0	0	0	976.66
11/12/05 2:00	67.7	3.2	4	0.8	7.2	0.9	177.6	11.1	0	0	0	976.09
11/12/05 3:00	71.6	4	4.9	0.9	9.2	0.9	179	10.5	0	0	0	975.39
11/12/05 4:00	75.3	4.4	5.3	0.9	9.4	1.1	175	10.6	0	0	0	974.45
11/12/05 5:00	78	4.2	5.1	0.8	8.5	1.1	176.7	11.2	0	0	0	973.99
11/12/05 6:00	80.3	4.1	5	0.9	10.1	1	148.1	11.4	0	0	0	973.63
11/12/05 7:00	78.8	5.7	6.9	1.1	12.1	1.4	180.4	12.2	10	0.04	0	973.34
11/12/05 8:00	79	5.5	6.7	1.2	13.3	1.3	159.2	11.2	9.7	0.03	0	973.56
11/12/05 9:00	82.3	5.9	7.4	1.5	12.9	1.3	163.4	10.5	45.5	0.16	0	973.45
11/12/05 10:00	78.9	6.4	7.9	1.6	13	1.4	166.2	10.3	96.3	0.35	0	973.05
11/12/05 11:00	72.3	6.2	7.9	1.7	13.6	1.6	173.6	11	234.3	0.84	0	972.53
11/12/05 12:00	59.2	7.2	9.1	1.9	15.8	1.7	175.3	10.6	461.7	1.66	0	971.78
11/12/05 13:00	47.1	7.1	8.9	1.8	14.4	1.5	185.4	11.4	484.7	1.74	0	971.24
11/12/05 14:00	41.2	6.6	8.4	1.7	15.4	1.6	185	10.8	413.2	1.49	0	971.15
11/12/05 15:00	35.2	5.9	7.4	1.6	14.3	1.6	188.3	11.4	262.6	0.95	0	971.31
11/12/05 16:00	23	5	6.5	1.5	11.8	1.4	215.7	11.1	107.6	0.39	0	972.23
11/12/05 17:00	22.8	2.7	3.9	1.2	8.7	0.8	229.3	11	4.4	0.02	0	973.69
11/12/05 18:00	27.6	1.3	2.4	1.1	4.2	0.4	236.1	8.7	0	0	0	975.34
11/12/05 19:00	30	1.1	2.1	1.1	4.1	0.4	262	11.3	0	0	0	976.47
11/12/05 20:00	36	0	0.9	2.9	0	0.2	248.9	13.1	-0.1	0	0	977.38
11/12/05 21:00	41.9	0.2	1.1	0.9	2.2	0.2	241.7	8.9	-0.7	0	0	978.29
11/12/05 22:00	45.2	0.2	1.5	1.3	2.7	0.2	238	6.5	-0.7	0	0	979.03
11/12/05 23:00	47.7	0.5	1.6	1.1	3.4	0.3	245.1	8.5	-0.8	0	0	979.27
11/13/05 0:00	41.3	1.6	2.4	0.8	4	0.4	261.3	8.5	-0.3	0	0	979.63
11/13/05 1:00	44.8	1.6	2.6	1	6	0.4	278.3	7.9	0	0	0	980.2
11/13/05 2:00	51.8	4.5	5.9	1.4	10.8	1.3	308.1	12	0	0	0	981.71
11/13/05 3:00	54.4	5.2	6.7	1.5	11.8	1.5	321.6	12.6	0	0	0	982.76
11/13/05 4:00	50.8	6.1	7.7	1.5	12.6	1.5	38.7	11.8	-0.2	0	0	984.06
11/13/05 5:00	49.5	5.5	6.8	1.4	13.1	1.3	17.3	11.7	-0.3	0	0	985.1
11/13/05 6:00	53.2	3.5	4.3	0.8	9.1	1.1	33.2	12.8	0.1	0	0	986.5
11/13/05 7:00	56.8	2.9	3.5	0.7	7.5	0.8	38.4	12.9	60.2	0.22	0	988.09
11/13/05 8:00	51.1	3.2	3.9	0.6	7.3	0.9	39.4	13.4	228.2	0.82	0	989.63
11/13/05 9:00	40.1	4.4	5.3	0.8	10.4	1.2	27.3	14	388.8	1.4	0	990.35
11/13/05 10:00	30.1	4.8	5.7	1	10.4	1.2	22.6	15.3	512.6	1.85	0	991.11
11/13/05 11:00	22.4	4.7	5.7	0.9	10.4	1.4	21.5	15.8	584.6	2.1	0	991.06
11/13/05 12:00	20.3	4.5	5.4	0.9	10.2	1.4	29.4	15.6	594.8	2.14	0	990.33
11/13/05 13:00	18.8	4.4	5.2	0.9	9.4	1.2	23	14	543.1	1.96	0	989.99
11/13/05 14:00	17.8	3.8	4.5	0.7	9.2	1.2	25.6	15.2	434.8	1.57	0	989.89
11/13/05 15:00	18.5	3.7	4.4	0.7	9.1	1	26.6	14.8	282.8	1.02	0	989.88
11/13/05 16:00	19.3	2.7	3.3	0.6	6.9	0.9	32.9	13.8	107.6	0.39	0	989.64
11/13/05 17:00	24.2	1.4	2	0.6	3.3	0.4	27.4	11.1	4	0.01	0	989.68
11/13/05 18:00	27.5	1.1	1.8	0.6	4.2	0.4	39.3	14.2	-0.9	0	0	989.74
11/13/05 19:00	30.8	1.4	2.1	0.7	4.3	0.5	41.8	14.2	-1	0	0	989.66
11/13/05 20:00	31.3	2.1	2.8	0.7	5	0.6	46.5	14	-1	0	0	989.43
11/13/05 21:00	34.8	2.2	2.9	0.7	5.9	0.6	52	12	-1	0	0	989.25
11/13/05 22:00	38.9	2	2.5	0.6	5	0.6	50.8	12.2	-1	0	0	988.92
11/13/05 23:00	41.3	2.3	3	0.7	5.1	0.6	52.5	11.3	-1	0		

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
11/14/05 12:00	0.03736	26.9	6.8	2.2	0	6.7	0.05	0	0.005	0.005	42.7	20.00	29	
11/14/05 13:00	0.04291	29.7	6	1.8	0	6.3	0.053	0	0.004	0.004	34.2	21.11	24	
11/14/05 14:00	0.04805	28.3	6	2.2	180	5.8	0.05	0.001	0.007	0.008	21.7	21.67	22	
11/14/05 15:00	0.04576	26	4.2	2.2	180	7.2	0.047	0.001	0.011	0.012	24.2	21.67	25	
11/14/05 16:00	0.03801	23.1	3.8	4.5	202.5	8.5	0.044	0	0.016	0.017	29.2	21.11	25	
11/14/05 17:00	0.0328	20.2	2.1	5.8	202.5	9.8	0.016	0.023	0.05	0.073	56.9	18.89	30	
11/14/05 18:00	0.02808	18.9	0.5	4.9	202.5	7.6	0.007	0.009	0.037	0.046	37.8	17.22	57	
11/14/05 19:00	0.02138	17.6	2	2.7	112.5	6.7	0.004	0.013	0.032	0.045	25.5	17.22	66	
11/14/05 20:00	0.02512	16.9	0.5	3.6	180	8	0	0.031	0.036	0.066	29.2	15.56	71	
11/14/05 21:00	0.02157	16.4	0.4	3.1	202.5	7.2	0	0.051	0.029	0.08	33.1	14.44	78	
11/14/05 22:00	0.02054	16.7	0.9	3.1	202.5	7.6	0.007	0.002	0.02	0.023	24.5	15.00	85	
11/14/05 23:00	0.01446	16.5	1.6	3.1	202.5	9.8	0.009	0.001	0.015	0.016	25.6	15.56	87	
11/15/05 0:00	0.009322	16.2	0.6	3.6	202.5	10.3	0.005	0.001	0.017	0.017	28.4	15.00	94	
11/15/05 1:00	0.01547	16.7	2.2	6.7	202.5	13.9	0.002	0.001	0.02	0.021	30.5	14.44	94	
11/15/05 2:00	0.01898	18.8	0.8	11.6	180	15.2	0	0.002	0.018	0.02	29.3	13.89	95	
11/15/05 3:00	0.01462	19.7	1.1	10.7	180	18.3	0.005	0.003	0.013	0.016	23	15.56	94	
11/15/05 4:00	0.01573	19.9	0.2	10.3	180	18.8	0.015	0	0.008	0.008	17.8	20.56	77	
11/15/05 5:00	0.01895	20.2	0.2	5.8	22.5	15.2	0.017	0	0.006	0.006	17.6	21.11	70	
11/15/05 6:00	0.01869	19.8	2.5	6.7	0	16.5	0.018	0	0.004	0.004	17.6	15.00	65	
11/15/05 7:00	0.01688	14.1	7.1	9.8	292.5	21.9	0.009	0.001	0.006	0.007	25.3	10.00	82	
11/15/05 8:00	0.007909	9.9	2	6.3	292.5	20.1	0.012	0.001	0.006	0.008	13.8	8.89	76	
11/15/05 9:00	0.01178	9.4	1.5	4	135	12.5	0.014	0.001	0.004	0.005	9.4	8.33	71	
11/15/05 10:00	0.009831	9.5	1.5	4.5	90	14.3	0.018	0.001	0.002	0.003	9.7	7.22	67	
11/15/05 11:00	0.01513	9.1	2.4	4	112.5	13	0.018	0	0.002	0.002	10.7	6.67	64	
11/15/05 12:00	0.01546	8.5	1.8	3.6	135	12.5	0.019	0.001	0.002	0.002	8.5	7.22	59	
11/15/05 13:00	0.01625	9.2	2.3	3.6	112.5	12.5	0.021	0.001	0.002	0.003	9.7	7.22	53	
11/15/05 14:00	0.01845	9.3	1.5	3.6	90	15.2	0.022	0.001	0.002	0.003	10.2	7.78	50	
11/15/05 15:00	0.01919	10.2	5.4	3.6	90	8.9	0.023	0.001	0.002	0.003	8.3	7.78	44	
11/15/05 16:00	0.02034	10.7	3.7	3.6	135	13.4	0.023	0.001	0.002	0.004	8.8	7.22	43	
11/15/05 17:00	0.02072	10.1	2.1	3.1	90	12.5	0.023	0.001	0.003	0.005	9.3	6.67	43	
11/15/05 18:00	0.02176	7.7	2.1	4	112.5	11.2	0.022	0	0.003	0.003	8.3	6.11	43	
11/15/05 19:00	0.02037	7.1	1.4	3.6	112.5	9.4	0.022	0	0.002	0.002	6.5	5.00	45	
11/15/05 20:00	0.01951	6.2	1.8	4	112.5	13	0.024	0	0.002	0.002	8.7	4.44	45	
11/15/05 21:00	0.02194	5.5	2.1	4	157.5	12.1	0.028	0	0.001	0.001	6.1	3.89	45	
11/15/05 22:00	0.02619	5.2	1.7	3.6	180	12.5	0.028	0	0.002	0.002	7.5	3.33	49	
11/15/05 23:00	0.02597	5.2	1.9	3.1	157.5	8	0.028	0	0.002	0.002	9.1	2.78	52	
11/16/05 0:00	0.02604	4.9	1.8	3.1	135	10.7	0.029	0	0.001	0.001	7.4	2.22	51	
11/16/05 1:00	0.02827	4.5	2.5	2.7	202.5	9.4	0.028	0	0.002	0.001	8.2	1.67	53	
11/16/05 2:00	0.02625	6.2	2.3	2.2	90	5.4	0.025	0	0.002	0.002	0.56	0.56	59	
11/16/05 3:00	0.0263	5.2	4.6	2.7	90	7.2	0.026	0	0.002	0.001	6.8	0.00	60	
11/16/05 4:00	0.02425	6.3	1.9	1.8	90	4.5	0.022	0	0.003	0.003	8.1	-1.67	68	
11/16/05 5:00	0.02361	6.4	1.4	2.2	112.5	5.4	0.02	0	0.004	0.003	9.5	-2.22	70	
11/16/05 6:00	0.02293	6.4	2.1	1.8	90	5.4	0.019	0	0.005	0.005	8.2	-2.22	70	
11/16/05 7:00	0.02266	5.5	3.4	1.8	67.5	8.5	0.015	0.001	0.009	0.011	9.9	-1.67	68	
11/16/05 8:00	0.02085	5.1	3.7	2.2	67.5	7.6	0.021	0.002	0.005	0.007	11.2	0.56	57	
11/16/05 9:00	0.02172	6.8	2	1.8	67.5	6.7	0.026	0.001	0.003	0.004	10.3	2.78	43	
11/16/05 10:00	0.02412	14.1	13.1	1.8	247.5	6.7	0.03	0.001	0.002	0.003	8.3	4.44	33	
11/16/05 11:00	0.02638	19.4	4.7	1.8	292.5	8	0.03	0.001	0.002	0.003	6.8	5.56	31	
11/16/05 12:00	0.02794	18.8	5.6	2.7	292.5	8.5	0.032	0.001	0.002	0.003	8.4	6.67	27	
11/16/05 13:00	0.02917	20.1	4.4	1.8	292.5	6.7	0.034	0.001	0.002	0.002	7.1	7.78	23	
11/16/05 14:00	0.03008	21	4.5	3.1	292.5	7.6	0.035	0	0.002	0.002	5.8	8.33	21	
11/16/05 15:00	0.03056	19.6	5.3	4	292.5	8	0.034	0.001	0.003	0.004	3.1	8.89	20	
11/16/05 16:00	0.02945	16.4	4.4	3.6	292.5	8.9	0.033	0	0.004	0.005	5.6	8.33	21	
11/16/05 17:00	0.02824	14.8	3.5	0.9	0	5.4	0.02	0.001	0.017	0.018	6.7	6.67	25	
11/16/05 18:00	0.02699	11.5	3	0.4	0	4.5	0.047	0.002	0.033	0.039	19.3	2.78	45	
11/16/05 19:00	0.02538	10.9	1.2	0.4	270	3.1	0.001	0.071	0.026	0.057	15.3	0.56	62	
11/16/05 20:00	0.03274	10.2	1.5	2.7	292.5	4.9	0.001	0.088	0.024	0.112	17.5	0.00	66	
11/16/05 21:00	0.02932	10.2	1.7	1.8	292.5	4.5	0.001	0.078	0.024	0.101	18.7	-0.56	66	
11/16/05 22:00	0.02316	9.1	2.8	1.3	225	5.4	0	0.084	0.019	0.103	15.3	-2.22	77	
11/16/05 23:00	0.02228	8.2	1.2	1.3	247.5	4	0	0.075	0.017	0.091	17.7	-2.78	84	
11/17/05 0:00	0.01744	7.2	2.7	1.3	270	4.5	0	0.061	0.017	0.078	18.2	-3.33	86	
11/17/05 1:00	0.02454	4.7	2.3	2.2	247.5	4.9	0	0.058	0.014	0.072	16.6	-3.89	88	
11/17/05 2:00	0.02396	4.3	1.7	1.8	270	4.9	0	0.039	0.014	0.053	17.1	-4.44	90	
11/17/05 3:00	0.02478	5.3	3.9	3.6	112.5	8.9	0	0.025	0.013	0.039	18.1	-5.00	90	
11/17/05 4:00	0.02628	6.9	2.9	6.7	112.5	9.4	0	0.028	0.012	0.04	17.7	-5.00	91	
11/17/05 5:00	0.01907	7.2	2.4	3.1	112.5	8.5	0	0.035	0.011	0.046	18.2	-5.56	91	
11/17/05 6:00	0.02441	6.8	4.2	3.1	90	11.2	0	0.046	0.012	0.059	16.8	-5.56	92	
11/17/05 7:00	0.02688	4.4	1.3	4.9	157.5	12.1	0	0.095	0.015	0.11	20.6	-5.56	91	
11/17/05 8:00	0.02784	3.7	1.2	4.9	180	9.8	0.002	0.138	0.027	0.165	26.6	-5.56	70	
11/17/05 9:00	0.0218	4.5	3	4.5	180	8.9	0.011	0.048	0.023	0.071	22.4	5.00	46	
11/17/05 10:00	0.02362	4.7	4.9	4.9	202.5	8.5	0.023	0.007	0.013	0.02	16.4	8.33	31	
11/17/05 11:00	0.02454	5.4	5.4	4.9	202.5	8.5	0.024	0.004	0.011	0.015	22.4	10.00	27	
11/17/05 12:00	0.03021	16.3	2.8	4.9	202.5	9.5	0.034	0.003	0.009	0.011	18.1	12.22	21	
11/17/05 13:00	0.03431	17.8	4.4	4.5	202.5	9.8	0.037	0.002	0.007	0.009	13.8	13.33	19	
11/17/05 14:00	0.03865	17.2	3.5	4.9	202.5	8.9	0.041	0.001	0.007	0.008	16.5	13.33	17	
11/17/05 15:00	0.04309	19.1	4.3	3.1	202.5	8.9	0.047	0.001	0.01	0.01	25.5	13.33	17	
11/17/05 16:00	0.05068	15.7	6.4	4.5	202.5	9.4	0.038	0.001	0.014	0.015	23.4	12.78	18	
11/17/05 17:00	0.04602	13.2	2.8	4	202.5	8.9	0.025	0.002	0.026	0.028	29.2	10.56	22	
11/17/05 18:00	0.03855	11.3	1.6	3.6	180	8.5	0.017	0.003	0.031	0.034	27.4	9.44	26	
11/17/05 19:00	0.03978	10.6	0.4	4.9	202.5	13.4	0.01	0.005	0.035	0.04	21.3	8.33	30	
11/17/05 20:00	0.02993	9.8	1.5	4	180	11.2	0.016	0	0.022	0.022	14.4	7.22	35	
11/17/05 21:00	0.03302	8.6	0.9	5.8	202.5	11.2	0.008	0.001	0.029	0.031	16.3	5.00	43	
11/17/05 22:00	0.03505	7.9	0.6	8.5	202.5	14.8	0.018	0	0.019	0.019	18.8	5.56	42	
11/17/05 23:00	0.02987	7.7	0.4	9.4	202.5	12.1	0.017	0.001	0.019	0.019	23.9	5.00	43	
11/18/05 0:00	0.03029	7.3	0.4	8.9	180	13.9	0.01	0.001	0.025	0.025	28.4	3.33	50	
11/18/05 1:00	0.03376	7	0.7	7.6	180	12.1	0.004	0.003	0.02					

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{ARM} (°C)	
11/14/05 12:00	228	2.2352	20	11	1.7	30	4.12	260	985.78	18.8	17.8	-1
11/14/05 13:00	218	1.78816	20.6	10.8	0.6	26	4.63	200	984.08	19.4	18.5	-0.8
11/14/05 14:00	207	2.2352	21.1	10.7	-0.6	24	3.60	170	983.07	20.2	19.4	-0.8
11/14/05 15:00	189	2.2352	21.7	11.5	1.1	26	5.14	200	982.05	20.3	20.1	-0.3
11/14/05 16:00	193	2.2352	20	10.7	1.1	28	3.09	160	981.38	19.2	19.8	0.6
11/14/05 17:00	152	0.44704	16.7	13	1.0	65	3.60	140	981.71	16.9	18.7	1.8
11/14/05 18:00	142	0.89408	16.1	13.1	10.6	70	3.09	120	981.38	15.8	17	1.2
11/14/05 19:00	120	0.89408	16.1	13.1	10.6	70	2.57	120	981.04	15.3	15.8	0.5
11/14/05 20:00	95	0	15	12.6	10.6	75	2.57	130	980.70	14.9	15.5	0.6
11/14/05 21:00	107	0.89408	16.1	13.9	12.2	78	0.00	0	979.34	14.3	14.8	0.5
11/14/05 22:00	154	2.2352	15.6	14.3	13.3	86	4.12	360	979.68	14.6	15	0.4
11/14/05 23:00	134	1.34112	16.1	15.1	14.4	90	0.00	0	977.99	14.2	14.6	0.3
11/15/05 0:00	173	0.44704	15.6	14.6	13.9	90	2.57	90	976.97	13.1	13.4	0.3
11/15/05 1:00	148	0.44704	14.4	13.8	13.3	93	4.12	120	976.30	13.6	14.2	0.6
11/15/05 2:00	146	0	15	14.4	13.9	93	1.54	130	975.28	13.9	14.2	0.3
11/15/05 3:00	213	1.34112	21.1	18	16.1	73	8.23	200	974.94	14.3	14.9	0.7
11/15/05 4:00	215	3.57632	21.7	18.6	16.7	73	8.23	210	975.28	17.4	18	0.6
11/15/05 5:00	237	3.57632	22.2	17.5	14.4	61	12.86	260	975.96	18.1	18.5	0.4
11/15/05 6:00	295	5.81152	12.8	10.8	8.9	77	11.83	300	979.34	11	11	0
11/15/05 7:00	309	6.7056	9.4	7.8	6.1	80	13.38	320	983.07	7.9	7.9	0
11/15/05 8:00	283	5.36448	9.4	7	4.4	71	10.80	320	985.78	7.5	7.6	0.1
11/15/05 9:00	311	6.25856	8.3	5.8	2.8	69	9.26	320	988.83	6	6	0
11/15/05 10:00	298	6.7056	7.2	4.5	1.1	66	10.80	330	991.20	5.8	5.7	-0.2
11/15/05 11:00	299	6.7056	7.2	4.1	0	61	9.77	330	992.21	5.8	5.7	-0.1
11/15/05 12:00	306	6.7056	7.8	4.2	-0.6	56	10.80	320	993.23	5.9	5.7	-0.2
11/15/05 13:00	269	6.25856	7.8	3.8	-1.7	51	11.32	320	993.57	6.4	6.3	-0.2
11/15/05 14:00	270	6.25856	8.3	3.9	-2.2	48	10.80	320	994.24	6.5	6.4	-0.1
11/15/05 15:00	275	7.15264	8.3	3.6	-3.3	44	8.75	330	995.60	6.2	6.1	-0.1
11/15/05 16:00	277	6.25856	6.7	2.4	-4.4	45	7.20	330	996.61	6	6.1	0.1
11/15/05 17:00	276	4.91744	6.1	2	-4.4	47	7.20	340	997.29	5.2	5.4	0.2
11/15/05 18:00	261	5.36448	5.6	1.4	-5.6	45	9.26	340	998.31	4.6	4.8	0.3
11/15/05 19:00	241	5.36448	4.4	0.7	-5.6	49	8.23	340	998.98	3.5	3.8	0.3
11/15/05 20:00	222	5.36448	4.4	0.4	-6.7	45	11.83	340	1000.68	3	3.3	0.2
11/15/05 21:00	256	4.91744	3.3	-0.3	-6.7	48	6.69	330	1001.35	2	2.3	0.3
11/15/05 22:00	233	4.02336	2.2	-0.8	-6.1	55	6.69	330	1002.03	1.3	1.7	0.4
11/15/05 23:00	260	4.02336	1.7	-1.1	-6.1	57	4.63	310	1002.71	1	1.3	0.4
11/16/05 0:00	239	3.12928	1.1	-1.6	-6.7	56	4.12	330	1002.71	0.3	0.8	0.5
11/16/05 1:00	291	2.2352	0.6	-1.9	-6.7	59	4.63	330	1003.39	-0.7	-0.1	0.6
11/16/05 2:00	297	2.2352	0.6	-1.9	-6.7	59	4.63	320	1004.06	-1.2	-0.7	0.5
11/16/05 3:00	282	1.34112	0	-2.4	-7.2	0	5.14	320	1004.40	0	-1.8	0.5
11/16/05 4:00	271	0.89408	-0.6	-2.8	-7.2	61	4.12	320	1005.08	-2.1	-1.7	0.4
11/16/05 5:00	271	0.89408	-2.2	-3.8	-7.2	69	3.60	280	1005.42	-2.7	-2.2	0.5
11/16/05 6:00	255	0.89408	-1.7	-3.5	-7.2	66	4.12	300	1006.10	-3.5	-3.1	0.4
11/16/05 7:00	291	1.34112	-0.6	-2.7	-6.7	64	4.12	310	1007.11	-3	-2.8	0.1
11/16/05 8:00	311	2.2352	2.2	-0.9	-6.7	52	4.12	320	1007.79	-0.4	-0.7	-0.3
11/16/05 9:00	300	3.12928	4.4	-0.6	-10.6	33	6.69	330	1008.13	2.1	1.6	-0.6
11/16/05 10:00	265	4.02336	5.6	0.4	-9.4	33	5.14	330	1008.47	4	3.3	-0.7
11/16/05 11:00	293	3.57632	6.7	1	-9.4	31	5.14	330	1007.79	5.4	4.6	-0.8
11/16/05 12:00	278	3.12928	7.8	1.3	-11.1	25	4.12	300	1007.11	6.5	5.6	-0.8
11/16/05 13:00	266	3.12928	8.3	1.4	-12.2	22	5.66	330	1006.43	7.3	6.5	-0.8
11/16/05 14:00	295	2.68224	8.9	1.7	-12.2	21	4.63	320	1005.76	7.9	7.2	-0.7
11/16/05 15:00	305	3.12928	8.9	1.7	-12.2	21	4.63	330	1005.76	7.9	7.7	-0.3
11/16/05 16:00	311	2.2352	7.2	0.9	-11.1	26	3.09	320	1005.76	7.1	7.4	0.3
11/16/05 17:00	300	0.89408	6.7	0.8	-10.6	28	1.54	290	1005.76	5	6.2	1.1
11/16/05 18:00	228	0.44704	5.6	0.3	-10	32	2.06	280	1005.76	2.7	5.3	2.6
11/16/05 19:00	194	0.44704	5	-0.2	-10.6	32	1.54	270	1005.76	2.5	5	2.5
11/16/05 20:00	210	0.44704	2.2	-1.1	-7.2	50	2.57	40	1006.10	2.8	3.7	0.9
11/16/05 21:00	188	0.44704	1.7	-1.5	-7.8	50	0.00	0	1006.43	2.2	2.9	0.7
11/16/05 22:00	207	0	1.7	-1.7	-8.3	48	0.00	0	1006.43	1.4	2	0.6
11/16/05 23:00	193	0	1.7	-1.7	-8.3	48	2.06	80	1006.43	0.5	1.2	0.6
11/17/05 0:00	204	0	0.6	-2.2	-7.8	54	2.06	110	1006.43	-0.2	0.5	0.7
11/17/05 1:00	173	0	0.6	-2.3	-8.3	52	1.54	90	1006.77	-1.3	-0.3	1
11/17/05 2:00	132	0	-0.6	-3	-7.8	59	1.54	110	1006.77	-1	-0.3	0.7
11/17/05 3:00	215	0	-0.6	-3.1	-8.3	56	0.00	0	1006.43	-1.7	-0.9	0.8
11/17/05 4:00	181	0	-2.2	-4	-7.8	66	2.06	140	1006.43	-1.8	-1.1	0.7
11/17/05 5:00	129	0	-1.7	-3.7	-7.8	64	3.09	140	1006.43	-2.1	-1.5	0.6
11/17/05 6:00	147	0	-2.8	-4.4	-7.8	69	2.57	140	1006.43	-2.4	-1.8	0.7
11/17/05 7:00	134	0	-1.7	-3.4	-6.7	69	2.57	100	1006.77	-2.1	-1.8	0.3
11/17/05 8:00	90	0.44704	2.8	-0.2	-5.6	54	3.60	150	1007.11	0.5	0.1	-0.4
11/17/05 9:00	182	1.34112	6.1	1.2	-7.2	38	5.14	180	1006.77	3	2.3	-0.8
11/17/05 10:00	189	2.2352	8.9	2.5	-8.3	29	5.14	170	1006.10	6.1	5.2	-0.9
11/17/05 11:00	202	3.12928	10.6	3.5	-8.3	26	5.14	180	1004.74	8.4	8.4	-1
11/17/05 12:00	200	3.12928	12.2	4.1	-9.4	21	6.17	170	1003.39	11.1	10.1	-1
11/17/05 13:00	195	3.12928	12.8	4.1	-10.6	19	6.69	200	1002.37	12.6	11.6	-0.9
11/17/05 14:00	195	3.12928	13.3	4.3	-11.1	17	4.63	180	1001.69	12.6	12	-0.7
11/17/05 15:00	183	3.12928	12.8	4.1	-10.6	19	5.66	160	1001.35	12.5	12.2	-0.3
11/17/05 16:00	181	2.68224	11.1	3.3	-10	22	5.14	150	1001.35	11.2	11.5	0.3
11/17/05 17:00	165	1.78816	8.9	2.3	-9.4	27	3.09	150	1001.69	8.8	9.7	1
11/17/05 18:00	171	1.34112	6.7	1.4	-7.8	35	3.09	140	1002.37	7.9	9	1.1
11/17/05 19:00	168	1.34112	7.8	2.2	-7.2	34	2.57	160	1003.05	7.1	8.1	1
11/17/05 20:00	197	1.34112	5.6	1.1	-6.7	41	3.09	160	1003.73	6.4	7.5	1.1
11/17/05 21:00	211	0.89408	6.1	1.4	-6.7	40	3.60	170	1004.40	6	6.9	0.9
11/17/05 22:00	203	1.34112	6.1	1.4	-6.7	40	5.14	180	1004.06	5.5	6.2	0.7
11/17/05 23:00	207	1.34112	5	0.9	-6.1	45	4.63	180	1004.06	3.7	5	1.3
11/18/05 0:00	216	0.89408	4.4	0.6	-6.1	47	4.12	180	1004.06	3.9	5.1	1.2
11/18/05 1:00	223	0.89408	2.8	-0.6	-6.7	50	2.06	200	1004.40	4.8	5.5	0.7
11/18/05 2:00	215	0.44704	2.8	-0.4	-6.1	52	2.57	190	1004.74	4.5	5.2	0.8
11/18/05 3:00	168	0	2.2	-0.9	-6.7	52	2.57	190	1004.06	3.9	4.7	0.8
11/18/05 4:00	76	0.44704	2.2	-0.9	-6.7	52	2.06	190	1004.06	3.1	4.1	1
11/18/05 5:00	134	0.44704	1.7	-1.2	-6.7	54	2.57	190	1003.73	3.2	3.9	0.7
11/18/05 6:00	235	0.44704	0.6	-1.9	-6.7	59	2.57	190	1004.06	2	2.9	0.9
11/18/05 7:00	162	0	1.1	-1.1	-5	64	1.54	180	1004.06	1.9	2.5	0.6
11/18/05 8:00	210	1.34112	5.6	1.3	-6.1	43	3.09	180	1004.06	4.7	4.3	-0.4
11/18/05 9:00	240	1.34112	7.8	2.6	-5.6	38	2.57	180	1004.06	7.2	6.5	-0.7
11/18/05 10:00	239	1.78816	10	3.8	-5.6	33	3.09	180	1003.05	9.5	8.7	-0.8
11/18/05 11												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
11/14/05 12:00	29.3	2.7	3.2	0.5	5.9	0.7	193	15.4	580.9	2.09	0	979.23
11/14/05 13:00	25.6	2.5	3.1	0.6	5.9	0.9	139.4	20.9	501	1.8	0	977.78
11/14/05 14:00	24	2.6	3.3	0.6	6.2	0.9	189.8	14.4	423.3	1.52	0	976.47
11/14/05 15:00	23.9	2.9	3.6	0.7	6.9	0.9	150.4	12.7	268.1	0.97	0	975.4
11/14/05 16:00	27.1	2	2.8	0.8	5.9	0.6	142.5	10.2	93.5	0.34	0	974.72
11/14/05 17:00	32.8	0.5	1.6	1.1	2.6	0.2	144.3	5.1	-3.5	0.01	0	974.65
11/14/05 18:00	49.3	2.2	3.2	1	5.5	0.5	138.3	8.5	-0.1	0	0	974.69
11/14/05 19:00	71.1	2.3	3.2	0.9	5.2	0.5	140.4	8.8	0	0	0	974.44
11/14/05 20:00	74.3	2.2	3.1	0.9	5.2	0.5	135.8	10.2	0	0	0	974.12
11/14/05 21:00	78.7	1.7	2.6	0.9	4.7	0.5	102.5	11.1	0	0	0	973.34
11/14/05 22:00	92.3	2.4	3.3	0.8	11.1	1.1	194.5	25.1	-0.1	0	0.58	972.21
11/14/05 23:00	94.4	1.3	1.9	0.6	5.8	0.4	142.4	16.6	0	0	0	971.47
11/15/05 0:00	95.8	1.7	2.4	0.7	5.7	0.8	117.4	19.8	0	0	0.17	970.22
11/15/05 1:00	96	1.2	2.2	1	4.8	0.3	85.1	10.1	0	0	0.01	969.46
11/15/05 2:00	96	2.1	3.1	1	5	0.4	101	8.7	0	0	0	968.72
11/15/05 3:00	96.5	1.4	2.3	0.9	4.5	0.4	144.4	8.7	0	0	0	967.99
11/15/05 4:00	92.7	2.8	4.1	1.3	8	0.6	174.4	7.6	0	0	0	968.02
11/15/05 5:00	76.9	4.7	6	1.3	11.7	1.3	220.8	11.7	0	0	0	968.73
11/15/05 6:00	87.6	4.8	6.1	1.3	12.9	1.6	267.7	14.5	-0.3	0	0	971.94
11/15/05 7:00	88.6	5.1	6.5	1.4	13.3	1.9	287.7	15.3	6.4	0.02	0	975.48
11/15/05 8:00	80.4	5.3	6.7	1.4	14.2	1.9	291.7	15.7	41.4	0.15	0	978.01
11/15/05 9:00	76.6	5.5	7	1.5	15.7	1.9	286.9	15.8	91.3	0.33	0	980.81
11/15/05 10:00	72	5.1	6.6	1.5	12.9	1.8	259.3	15	130.8	0.47	0	983.16
11/15/05 11:00	67.9	4.5	5.8	1.3	11.2	1.7	290.8	15.6	109.3	0.39	0	984.83
11/15/05 12:00	62.6	5.2	6.6	1.5	12.5	1.9	292.8	16.2	170.9	0.62	0	985.78
11/15/05 13:00	56.8	5.2	6.6	1.5	13.9	1.9	289.5	15.5	164.3	0.59	0	986.58
11/15/05 14:00	52.9	4.7	6.1	1.4	12.9	1.8	291.4	15.9	133.6	0.48	0	987.27
11/15/05 15:00	49.9	4.6	5.8	1.3	13.8	1.7	295.3	16.1	130.8	0.47	0	988.44
11/15/05 16:00	47	4.1	5.3	1.2	11.1	1.5	297.3	16	107.9	0.39	0	989.21
11/15/05 17:00	47.8	3.9	5.1	1.2	10.6	1.6	295	15.7	2.6	0.01	0	990.15
11/15/05 18:00	47.2	4.2	5.4	1.3	11.4	1.6	298.8	15	-1	0	0	991.11
11/15/05 19:00	51.2	3.9	5.1	1.2	10.6	1.4	300.8	14.2	-1	0	0	992
11/15/05 20:00	49.5	4.2	5.4	1.2	12.1	1.6	298.3	15.6	-1	0	0	992.82
11/15/05 21:00	53.9	2.9	3.8	0.9	8.7	1.2	293.2	15.4	-1	0	0	993.72
11/15/05 22:00	57.6	2.2	3	0.8	8.1	1	289.7	15.9	-1	0	0	994.52
11/15/05 23:00	58.8	2.7	3.6	0.9	9.2	1	295.9	14.3	-1	0	0	994.84
11/16/05 0:00	58.7	1.4	2.2	0.8	5.3	0.6	283.7	14.6	-1	0	0	995.27
11/16/05 1:00	62.9	1.2	1.9	0.7	4	0.5	263.1	13.8	-1	0	0	995.7
11/16/05 2:00	65.8	1.6	2.4	0.8	5.3	0.6	273.7	13.3	-1	0	0	996.31
11/16/05 3:00	68	1.7	2.5	0.8	5.2	0.6	274.8	13.5	-1	0	0	996.65
11/16/05 4:00	67.7	1.7	2.4	0.7	4.7	0.6	272.3	13.2	-1	0	0	997.13
11/16/05 5:00	68.7	1.5	2.2	0.8	4.1	0.6	260	13.6	-1	0	0	997.36
11/16/05 6:00	75.4	1.7	2.3	0.6	4.1	0.5	246.2	12.5	-0.1	0	0	997.95
11/16/05 7:00	76.3	1.9	2.5	0.6	5	0.6	246	12.8	60.3	0.22	0	998.94
11/16/05 8:00	63.4	2.3	2.9	0.6	5.5	0.7	267.3	13.2	237.4	0.85	0	0.75
11/16/05 9:00	47.3	3.1	3.8	0.7	7.6	1	281.6	15.3	399.7	1.44	0	1000.65
11/16/05 10:00	37.7	3	3.5	0.6	7.7	1.1	271.3	16.8	522	1.88	0	1000.86
11/16/05 11:00	30.2	3.3	3.9	0.6	7.8	1.1	268.3	20.1	591.3	2.13	0	1000.45
11/16/05 12:00	27.3	3	3.5	0.5	7.3	1	262.8	19	598.8	2.16	0	0.56
11/16/05 13:00	23.1	2.9	3.5	0.6	7.8	1	258.8	20	547	1.97	0	998.68
11/16/05 14:00	22	2.8	3.4	0.6	7	1	251.7	17.5	437.9	1.58	0	998.18
11/16/05 15:00	21.4	2.4	3	0.6	7.1	0.9	266.1	18.1	284.7	1.02	0	998.15
11/16/05 16:00	23.1	2	2.6	0.6	5.9	0.8	270.8	14.9	106.6	0.38	0	998.06
11/16/05 17:00	27.7	0.3	1.3	1	2.7	0.3	244.3	9.7	2.8	0.01	0	997.95
11/16/05 18:00	0.1	1.3	1.3	0	2.1	0.2	230.3	4.6	-1	0	0	998.17
11/16/05 19:00	38.3	0.4	1.4	1	5.4	0.3	255.1	7.8	-1	0	0	998.22
11/16/05 20:00	42.6	1.9	2.5	0.6	5.3	0.5	60.1	10.9	-1	0	0	998.7
11/16/05 21:00	44.8	1.7	2.3	0.7	4.1	0.4	51.2	8.7	-1	0	0	998.93
11/16/05 22:00	47.6	2.1	2.8	0.7	4.9	0.5	58.4	9.4	-1	0	0	998.79
11/16/05 23:00	50.8	2	2.8	0.8	4.4	0.4	61.8	8.7	-1	0	0	998.75
11/17/05 0:00	57.2	1.5	2.5	0.9	4	0.4	78.5	8.2	-1	0	0	998.81
11/17/05 1:00	63.7	1.1	2.2	1.1	3.6	0.3	93.3	5.9	-1	0	0	998.88
11/17/05 2:00	56.5	1.9	3	1.1	4.8	0.5	97.3	8.9	-1	0	0	998.88
11/17/05 3:00	59.2	1.5	2.6	1.1	4.1	0.4	101.3	8	-1	0	0	998.75
11/17/05 4:00	60.5	1.7	2.7	1	4.4	0.4	108.3	8.6	-1	0	0	998.6
11/17/05 5:00	62.3	1.7	2.6	0.9	4.7	0.4	113.4	8.6	-1	0	0	998.6
11/17/05 6:00	64.9	1.8	2.6	0.8	4.3	0.4	123.9	8.3	-0.2	0	0	998.59
11/17/05 7:00	65.6	1.8	2.5	0.8	3.8	0.4	111.4	8	53.9	0.19	0	998.88
11/17/05 8:00	55.6	2.8	3.4	0.5	6.2	0.7	140.2	10.5	223.1	0.8	0	0.18
11/17/05 9:00	50.2	3.2	3.7	0.5	6.2	0.8	152	12.7	378.9	1.36	0	0.02
11/17/05 10:00	41.8	3.2	3.7	0.6	6.5	0.8	162.6	13.8	507	1.83	0	998.44
11/17/05 11:00	29.2	3.8	4.5	0.7	7.3	0.9	153.8	14.3	574.9	2.07	0	997.52
11/17/05 12:00	25.1	4.1	4.8	0.7	8.2	0.9	151.9	12.3	582.3	-1	0	996.14
11/17/05 13:00	20.9	3.5	4.1	0.6	8.2	1	170.5	13.8	532.3	1.92	0	995.02
11/17/05 14:00	20.2	4.1	4.9	0.8	8.4	1	176.3	12.9	419.2	1.51	0	994.1
11/17/05 15:00	19.7	3.3	3.9	0.6	6.6	0.9	162.9	13.2	268	0.96	0	993.72
11/17/05 16:00	21.1	2.8	3.5	0.7	6.7	0.7	160.9	11.4	93.8	0.34	0	993.76
11/17/05 17:00	27.2	2	2.8	0.9	4.4	0.5	137.7	9.1	2.8	0.01	0	994.02
11/17/05 18:00	28.7	2	2.8	0.9	4.9	0.5	149.3	9.7	-1	0	0	994.68
11/17/05 19:00	31.5	2.2	3	0.8	5	0.5	154.6	8.6	-1	0	0	995.34
11/17/05 20:00	35.7	2.3	3.1	0.9	5.4	0.5	171.6	8.7	-1	0	0	995.92
11/17/05 21:00	37.8	2.5	3.4	0.9	5.1	0.5	172.4	8.3	-1	0	0	996.4
11/17/05 22:00	40.7	2.8	3.6	0.8	5.7	0.6	175.7	8.6	-1	0	0	996.44
11/17/05 23:00	49.7	1.6	2.8	1.2	4.3	0.4	164.9	7.3	-1	0	0	996.36
11/18/05 0:00	47.7	2.1	3.4	1.3	6.3	0.5	177.2	7.3	-1	0	0	996.4
11/18/05 1:00	41.2	2.9	4	1.1	7.7	0.6	190.6	7.8	-1	0	0	996.53
11/18/05 2:00	44.5	3.2	4.3	1.1	7.4	0.6	192.2	7.3	-1	0	0	996.73
11/18/05 3:00	45.8	2.9	4	1.1	6	0.5	189.2	6.5	-1	0	0	996.53
11/18/05 4:00	51	2.4	3.6	1.2	6.4	0.5	197.1	6.3	-1	0	0	996.3
11/18/05 5:00	51.3	2.7	3.8	1.1	5.7	0.5	201.9	6.8	-1	0	0	996.07
11/18/05 6:00	56.9	2.2	3.2	1	5	0.4	211.2	7.3	-0.3	0	0	996.03
11/18/05 7:00	60.5	1.5	2.4	0.9	3.6	0.3	217.5	6.8	50.7	0.18	0	996.23
11/18/05 8:00	50.5	2.4	2.9	0.5	5.8	0.6	207.5	10.1	219.1	0.79	0	996.34
11/18/05 9:00	42.8	3.7	4.5	0.8	6.9	0.8	206.1	10.3	381.2	1.37	0	996.15
11/18/05 10:00	36.3	4.4	5.2	0.9	8.6	0.9	200	10.4	505.6	1.82	0	995.56
11/18/05 11:00	32.2	3.8	4.6	0.8	6.6	0.8	195.4	11.2	576.8	2.08	0	994.48
11/18/05 12:00	28	3.8	4.5	0.7	8.4	1.1	198.7	12.8	586.3	2.11	0	993.1
11/18/05 13:00	26.3	3.4	4.1	0.7	8.1	0.9	198.5	14	534.8	1.93	0	991.77
11/18/05 14:00	24.8	3.3	4.1	0.8	7.2	0.9	192.6	14.3	425.			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{Max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
11/19/05 3:00	0.02599	7.4	0.4	9.8	180	14.3	0.022	0	0.017	0.017	17.8	6.67	43	
11/19/05 4:00	0.02508	7.8	0.5	10.3	180	14.3	0.024	0	0.015	0.014	15.7	7.22	39	
11/19/05 5:00	0.02742	7.6	0.5	10.3	180	15.2	0.023	0	0.014	0.014	15.5	6.67	41	
11/19/05 6:00	0.02554	7.3	0.6	8.5	180	15.2	0.024	0	0.014	0.013	15	6.11	43	
11/19/05 7:00	0.02269	6.5	0.7	8.5	190	13.9	0.027	0	0.012	0.012	16	6.67	40	
11/19/05 8:00	0.02796	6.1	0.3	10.7	202.5	14.3	0.024	0.003	0.015	0.017	21.5	7.78	37	
11/19/05 9:00	0.02311	6.6	2.5	9.4	202.5	13	0.025	0.005	0.014	0.019	20	10.56	33	
11/19/05 10:00	0.02373	12.5	7.9	5.4	180	13	0.03	0.003	0.01	0.014	13.9	13.33	29	
11/19/05 11:00	0.02589	20.6	9.5	3.1	0	10.7	0.034	0.002	0.007	0.009	16.2	15.00	30	
11/19/05 12:00	0.02721	24.7	4	3.1	0	8.9	0.037	0.001	0.007	0.008	15.2	16.67	31	
11/19/05 13:00	0.02924	24.7	6.5	2.7	0	12.5	0.039	0.001	0.007	0.008	16.8	15.56	31	
11/19/05 14:00	0.03521	22.6	4.2	3.6	292.5	9.8	0.039	0.001	0.007	0.007	18.7	15.56	30	
11/19/05 15:00	0.03629	21.8	4.3	4	292.5	8	0.037	0	0.007	0.007	13.6	15.00	29	
11/19/05 16:00	0.03523	19.8	5.6	3.6	292.5	8.5	0.032	0.001	0.008	0.009	12.8	13.89	37	
11/19/05 17:00	0.02843	16.7	2.6	0.4	225	4	0.028	0	0.008	0.008	11.6	13.89	45	
11/19/05 18:00	0.02586	14.9	2	1.3	112.5	4.9	0.027	0.001	0.004	0.005	12.1	13.33	49	
11/19/05 19:00	0.02615	13.6	0.9	1.8	202.5	4.5	0.024	0	0.006	0.006	8.7	12.78	51	
11/19/05 20:00	0.02522	13.4	1.1	1.3	202.5	4.5	0.023	0	0.005	0.006	9.9	12.22	54	
11/19/05 21:00	0.023	13.2	1.8	1.3	112.5	5.4	0.023	0.001	0.004	0.004	10.4	11.67	55	
11/19/05 22:00	0.02075	12.6	1.5	1.8	202.5	5.8	0.021	0	0.003	0.003	8.2	10.56	60	
11/19/05 23:00	0.01795	12.7	1.1	1.3	157.5	4	0.014	0	0.008	0.009	10	8.33	68	
11/20/05 0:00	0.01717	11.9	2.1	1.8	90	6.7	0.019	0	0.003	0.003	11.5	7.78	68	
11/20/05 1:00	0.01799	9.5	2.4	2.2	157.5	6	0.016	0	0.003	0.003	8.7	6.67	72	
11/20/05 2:00	0.01626	8.2	1.3	2.2	202.5	6.3	0.015	0	0.002	0.002	9.9	6.67	72	
11/20/05 3:00	0.01445	8.3	1	2.7	202.5	5.8	0.014	0	0.002	0.002	9	7.22	72	
11/20/05 4:00	0.01341	9.1	1.6	1.8	157.5	4.9	0.014	0	0.003	0.002	9.4	6.67	72	
11/20/05 5:00	0.01304	8.6	2.3	2.2	180	6.3	0.014	0	0.003	0.002	13.9	6.11	75	
11/20/05 6:00	0.01341	7.7	1.3	2.7	202.5	6.7	0.015	0	0.003	0.002	12.7	6.67	75	
11/20/05 7:00	0.01506	7.7	1.8	2.7	202.5	6.3	0.016	0	0.003	0.003	13.9	6.67	75	
11/20/05 8:00	0.01551	8.2	1.3	2.2	202.5	5.8	0.019	0	0.002	0.002	13.6	7.22	73	
11/20/05 9:00	0.01732	9.1	2.9	2.2	225	5.8	0.022	0.001	0.002	0.003	14.2	7.78	68	
11/20/05 10:00	0.01938	11.8	3.6	1.8	202.5	4.9	0.022	0.002	0.003	0.005	10	8.33	64	
11/20/05 11:00	0.01891	16.7	4	1.8	225	4.9	0.023	0.002	0.003	0.004	10.8	9.44	60	
11/20/05 12:00	0.0193	20.1	3	1.3	225	4.9	0.024	0.001	0.002	0.003	9.9	10.00	54	
11/20/05 13:00	0.02036	20.1	2.9	1.3	225	5.8	0.023	0.002	0.003	0.005	10.56	10.56	50	
11/20/05 14:00	0.02098	17.3	6.5	1.3	225	4.9	0.023	0.003	0.003	0.007	10.56	10.56	49	
11/20/05 15:00	0.02093	13.7	2.4	0.9	225	3.6	0.024	0.001	0.004	0.004	10.00	10.00	48	
11/20/05 16:00	0.02131	12.9	1.2	0.9	202.5	3.1	0.023	0.001	0.004	0.005	12.8	10.00	49	
11/20/05 17:00	0.0205	12.6	0.7	0.9	225	2.2	0.02	0.002	0.006	0.006	10	10.00	51	
11/20/05 18:00	0.01987	12.6	0.8	0.4	225	1.8	0.014	0.001	0.011	0.012	13.1	9.44	54	
11/20/05 19:00	0.02061	12.6	0.5	0	225	1.3	0.011	0.002	0.014	0.015	14.7	8.89	56	
11/20/05 20:00	0.02046	12.3	1	0.4	225	2.2	0.012	0.001	0.012	0.013	14.3	8.33	58	
11/20/05 21:00	0.02132	12.1	0.7	0.4	225	2.2	0.012	0	0.01	0.011	13.4	8.33	60	
11/20/05 22:00	0.01965	11.8	0.8	0.4	225	2.2	0.006	0.003	0.014	0.017	14.6	7.78	65	
11/20/05 23:00	0.01914	12	1	0.4	270	2.2	0.001	0.007	0.018	0.026	14.7	7.22	68	
11/21/05 0:00	0.01667	12.2	0.6	0.4	45	2.7	0	0.018	0.017	0.034	13.1	6.11	74	
11/21/05 1:00	0.01607	11.8	1.3	0.4	22.5	3.1	0.001	0.005	0.016	0.021	16.6	3.33	82	
11/21/05 2:00	0.01651	11.1	0.6	0	22.5	1.3	0	0.01	0.014	0.024	14.6	1.67	89	
11/21/05 3:00	0.01586	10.7	0.5	0	22.5	1.3	0	0.009	0.012	0.02	16.2	0.56	92	
11/21/05 4:00	0.01836	10.4	0.9	0	22.5	0.9	0	0.014	0.008	0.022	13.8	-0.56	93	
11/21/05 5:00	0.01775	10.2	0.9	1.3	315	3.1	0	0.031	0.007	0.039	15.3	-1.11	94	
11/21/05 6:00	0.02034	10.1	0.6	2.7	292.5	4.5	0	0.06	0.01	0.07	16.2	-1.11	95	
11/21/05 7:00	0.02132	10.2	0.7	4	292.5	4.9	0	0.054	0.014	0.068	18.3	0.00	95	
11/21/05 8:00	0.02079	10.4	0.9	4.5	292.5	6.7	0.003	0.004	0.014	0.054	17.1	4.44	83	
11/21/05 9:00	0.02046	10.6	2.9	4.9	292.5	6.7	0.016	0.002	0.003	0.005	14.9	7.78	68	
11/21/05 10:00	0.01967	19.1	8.9	3.6	292.5	6.7	0.023	0.001	0.002	0.003	10.1	10.56	51	
11/21/05 11:00	0.01794	25.7	9	3.6	292.5	5.8	0.028	0	0.002	0.003	8.1	12.22	43	
11/21/05 12:00	0.01917	28.1	3.3	1.8	292.5	6.3	0.03	0.001	0.002	0.003	12.3	13.33	38	
11/21/05 13:00	0.02677	27.8	5.8	2.7	292.5	8	0.001	0.001	0.003	0.003	11.6	15.00	34	
11/21/05 14:00	0.0277	27.2	4	2.2	292.5	6.3	0.031	0.001	0.003	0.004	13.3	16.11	30	
11/21/05 15:00	0.03068	25.6	4.6	2.7	292.5	8	0.033	0.001	0.004	0.005	8.2	16.67	28	
11/21/05 16:00	0.0329	22.8	5.5	1.3	292.5	6.3	0.034	0	0.006	0.006	12.2	16.67	28	
11/21/05 17:00	0.03425	19.4	3.4	1.3	292.5	5.4	0.017	0.004	0.023	0.026	13.1	14.44	35	
11/21/05 18:00	0.03624	16.1	2.5	3.1	292.5	7.6	0.013	0.011	0.027	0.038	18.2	12.22	42	
11/21/05 19:00	0.03402	15.5	0.5	2.2	292.5	6.3	0.019	0.001	0.017	0.018	14	12.22	44	
11/21/05 20:00	0.02831	15.8	0.4	0.9	67.5	4.5	0.015	0.008	0.021	0.029	12.4	11.11	48	
11/21/05 21:00	0.03099	15.1	1.5	1.8	90	4.9	0.02	0.001	0.015	0.016	12.1	10.56	51	
11/21/05 22:00	0.032	13.3	1.6	3.6	225	8	0.023	0.001	0.009	0.01	14.4	10.56	53	
11/21/05 23:00	0.02535	12.4	0.7	4	225	6.7	0.021	0.001	0.008	0.009	13.4	9.44	57	
11/22/05 0:00	0.02282	11.6	0.9	3.6	225	7.2	0.021	0	0.005	0.005	14.1	9.44	59	
11/22/05 1:00	0.02258	10.9	0.6	3.6	225	6.7	0.021	0	0.005	0.005	10	8.89	57	
11/22/05 2:00	0.02503	10.2	1	3.6	225	6.7	0.025	0.001	0.005	0.005	13.3	7.78	58	
11/22/05 3:00	0.02565	9.6	1	3.1	225	6.4	0.022	0	0.005	0.005	11.3	6.67	63	
11/22/05 4:00	0.02497	8.8	1.1	3.1	225	5.8	0.022	0	0.004	0.003	11.1	6.11	60	
11/22/05 5:00	0.0231	8.5	0.9	2.2	225	4.9	0.019	0	0.005	0.005	12.8	5.56	62	
11/22/05 6:00	0.02214	9.2	0.9	1.8	202.5	4.9	0.006	0.029	0.017	0.047	16.7	3.89	70	
11/22/05 7:00	0.02148	9.7	1.3	1.8	22.5	5.4	0.005	0.013	0.02	0.033	11	3.89	70	
11/22/05 8:00	0.01797	10.4	1.4	0.9	67.5	3.6	0.012	0.01	0.014	0.024	13.1	6.11	62	
11/22/05 9:00	0.01799	11.1	1.2	1.8	45	4.9	0.02	0.012	0.01	0.022	20.7	7.78	52	
11/22/05 10:00	0.01107	19.1	11.7	0.9	22.5	3.1	0.022	0.001	0.001	0.001	16.7	9.44	46	
11/22/05 11:00	0.01392	26.4	6	0.4	225	2.2	0.026	0.001	0.001	0.001	10.7	11.67	36	
11/22/05 12:00	0.01685	30.6	4.7	0.4	0	2.2	0.029	0.001	0.001	0.001	14.7	13.33	30	
11/22/05 13:00	0.01653	31.4	2.9	0.9	292.5	2.7	0.029	0.001	0.001	0.001	12.3	14.44	28	
11/22/05 14:00	0.02137	30.7	4.6	0.9	202.5	2.7	0.031	0.001	0.001	0.001	12.4	15.56	27	
11/22/05 15:00	0.01935	25.8	8.6	1.3	202.5	6.3	0.026	0.004	0.012	0.016	16.8	16.11	27	
11/22/05 16:00	0.02154	20.2	2.9	2.2	0	6.3	0.03	0	0.007	0.00				

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,8M} (°C)	
11/19/05 3:00	200	1.78816	6.7	1.9	-6.1	40	3.60	170	991.87	6.7	7.4	0.7
11/19/05 4:00	199	2.2352	7.2	2.1	-6.1	39	5.14	170	991.87	6.9	7.5	0.6
11/19/05 5:00	198	1.78816	6.7	1.9	-6.1	40	4.12	180	991.87	6.8	7.5	0.7
11/19/05 6:00	209	1.78816	6.1	1.3	-6.7	40	5.66	180	991.87	6.5	7.1	0.6
11/19/05 7:00	203	2.68224	6.7	1.9	-6.1	40	5.66	180	991.87	6.4	6.8	0.4
11/19/05 8:00	201	3.57632	8.9	3.2	-5.6	36	7.72	190	991.87	8.3	8.1	-0.2
11/19/05 9:00	208	3.57632	12.2	5.1	-	30	9.77	200	991.87	10.5	9.9	-0.6
11/19/05 10:00	220	3.12928	13.9	6.3	-3.9	29	5.14	220	991.87	12.6	11.9	-0.8
11/19/05 11:00	227	2.68224	15	7.4	-2.2	31	3.60	220	991.20	13.8	12.9	-0.9
11/19/05 12:00	253	2.68224	16.7	8.9	0	32	3.60	220	990.52	14.4	13.5	-0.8
11/19/05 13:00	293	3.12928	16.1	8.4	-0.6	32	6.17	280	990.52	14	13.4	-0.6
11/19/05 14:00	304	3.12928	15.6	7.8	-1.7	31	5.14	320	990.86	14.3	13.7	-0.6
11/19/05 15:00	303	2.68224	14.4	6.9	-2.8	31	6.17	310	991.53	13.8	13.6	-0.2
11/19/05 16:00	283	1.78816	12.8	6.8	-0.6	40	2.06	300	992.21	13.3	13.4	0.1
11/19/05 17:00	273	2.2352	12.8	7.2	0.6	44	3.09	350	992.55	12.4	12.7	0.3
11/19/05 18:00	207	2.2352	12.8	8.1	2.8	51	2.57	340	993.23	11.6	12	0.4
11/19/05 19:00	291	1.78816	11.7	8	3.9	59	2.06	310	993.57	11.1	11.5	0.4
11/19/05 20:00	254	2.2352	11.1	7.7	3.9	61	4.63	340	993.90	10.7	11	0.3
11/19/05 21:00	259	2.68224	10.6	7.4	3.9	64	3.09	350	994.58	9.4	9.8	0.4
11/19/05 22:00	289	2.2352	10	6.9	3.3	63	3.09	310	995.26	7.5	8.2	0.7
11/19/05 23:00	311	0.89408	7.8	5.5	2.8	71	4.12	320	995.60	6.7	7.3	0.6
11/20/05 0:00	268	3.12928	6.7	4.7	2.2	73	4.63	330	995.94	5.8	6.3	0.5
11/20/05 1:00	257	2.2352	5.6	3.9	1.7	76	3.60	320	995.94	5	5.5	0.5
11/20/05 2:00	267	2.68224	6.7	4.7	2.2	73	3.60	330	996.28	5.9	6.1	0.1
11/20/05 3:00	274	2.2352	6.7	5	2.8	76	3.60	330	996.28	5.8	5.9	0.1
11/20/05 4:00	240	2.68224	6.7	4.7	2.2	73	5.14	340	996.28	5.2	5.3	0.1
11/20/05 5:00	220	2.68224	6.7	4.7	2.2	73	4.63	330	996.28	5.2	5.3	0.1
11/20/05 6:00	192	2.68224	6.7	4.7	2.2	73	4.12	340	996.28	5.7	5.8	0.1
11/20/05 7:00	230	2.68224	7.2	5.2	2.8	74	4.12	340	996.61	5.7	5.8	0
11/20/05 8:00	122	2.68224	8.3	5.8	2.8	69	5.14	360	997.29	6.3	6.1	-0.2
11/20/05 9:00	51	4.02336	8.9	5.9	2.2	63	6.69	10	997.29	7.2	6.8	-0.4
11/20/05 10:00	50	4.02336	9.4	6.1	2.2	61	5.66	350	997.63	8	7.5	-0.5
11/20/05 11:00	72	3.12928	10.6	6.6	1.7	54	4.12	350	996.61	9.3	8.6	-0.8
11/20/05 12:00	56	2.68224	11.1	6.6	1.1	50	2.57	40	995.94	9.9	9.3	-0.6
11/20/05 13:00	68	2.68224	11.1	6.4	0.6	49	3.60	360	995.26	9.8	9.4	-0.4
11/20/05 14:00	118	2.2352	10.6	5.9	0	48	3.60	350	994.92	9.4	9.3	-0.1
11/20/05 15:00	145	1.78816	10.6	6.1	0.6	50	2.57	10	995.26	9.1	9.1	0
11/20/05 16:00	98	1.34112	10	5.6	0	50	3.09	360	995.26	8.7	8.9	0.2
11/20/05 17:00	120	0.89408	9.4	5.3	0	52	2.57	340	995.60	8.1	8.5	0.4
11/20/05 18:00	256	0.89408	8.9	5.3	0.6	56	1.54	330	995.94	7.9	8.2	0.4
11/20/05 19:00	210	0.89408	8.3	4.9	0.6	59	2.06	360	995.94	7.5	8	0.4
11/20/05 20:00	325	0.89408	8.3	5.1	1.1	61	1.54	350	995.60	7.3	7.7	0.4
11/20/05 21:00	312	0.44704	7.8	4.9	1.1	63	1.54	360	995.60	7.1	7.5	0.5
11/20/05 22:00	190	0	7.8	4.9	1.1	63	0.00	0	995.26	6.7	7.4	0.6
11/20/05 23:00	214	0	7.2	4.5	1.1	66	1.54	360	995.26	6.1	7.1	1
11/21/05 0:00	194	0	6.1	3.8	0.6	68	0.00	0	994.58	4.3	6.2	1.9
11/21/05 1:00	237	0	5	3.3	1.1	76	0.00	0	994.58	2.8	5.2	2.4
11/21/05 2:00	250	0	3.9	2.5	0.6	79	0.00	0	994.58	1.1	3.7	2.6
11/21/05 3:00	176	0	1.7	0.8	-0.6	85	1.54	310	994.58	1.8	3.7	1.9
11/21/05 4:00	203	0	1.1	0.4	-0.6	89	0.00	0	994.24	1.6	3.1	1.5
11/21/05 5:00	203	0.44704	1.7	0.8	-0.6	85	0.00	0	994.58	1.1	2.4	1.3
11/21/05 6:00	205	0.44704	0	-0.6	-1.7	88	0.00	0	994.58	0.2	1.3	1.2
11/21/05 7:00	212	0.89408	1.7	0.8	-0.6	85	2.06	270	995.26	0.5	1	0.6
11/21/05 8:00	214	0.44704	5	3.3	1.1	76	2.06	270	995.26	3.5	3.2	-0.3
11/21/05 9:00	257	0.89408	8.3	5.4	1.7	63	1.54	330	995.26	6.7	6.7	-0.6
11/21/05 10:00	283	1.78816	10.6	6.3	1.1	52	2.06	360	994.58	9.7	8.9	-0.8
11/21/05 11:00	285	2.2352	12.8	6.8	-0.6	40	3.60	320	993.57	11.7	10.9	-0.8
11/21/05 12:00	291	2.2352	13.9	7.4	-0.6	37	3.09	290	992.55	13.7	12.9	-0.8
11/21/05 13:00	273	2.68224	16.1	8.4	-0.6	32	4.12	310	992.21	15.1	14.4	-0.7
11/21/05 14:00	254	2.68224	16.1	8.3	-1.1	31	5.66	330	991.87	16.1	15.6	-0.5
11/21/05 15:00	296	3.12928	16.7	8.5	-1.1	30	3.60	310	991.87	16.4	16.3	-0.1
11/21/05 16:00	312	2.2352	15	7.7	-1.1	33	2.06	290	991.20	16	16.5	0.5
11/21/05 17:00	284	0.89408	14.4	7.4	-1.1	35	2.57	260	991.87	13.8	14.9	1.1
11/21/05 18:00	289	0.89408	12.2	6.7	0	43	3.09	290	992.21	12.2	13.1	0.9
11/21/05 19:00	305	1.34112	10	5.8	0.6	52	3.09	300	992.21	11	12.1	1.1
11/21/05 20:00	303	1.34112	9.4	5.7	1.1	57	3.09	320	992.21	10.2	11.4	1.2
11/21/05 21:00	313	1.34112	8.3	5.1	1.1	61	3.09	330	992.55	10.5	11.3	0.7
11/21/05 22:00	322	1.78816	8.3	5.4	1.7	63	4.12	350	992.89	9.9	10.4	0.6
11/21/05 23:00	315	1.78816	7.8	5.1	1.7	66	3.60	340	993.23	9.1	9.7	0.6
11/22/05 0:00	109	2.2352	6.7	4.5	1.7	71	5.14	360	993.23	8.3	8.9	0.6
11/22/05 1:00	150	1.34112	5.6	3.5	0.6	71	3.09	340	993.23	7.2	7.9	0.6
11/22/05 2:00	232	1.34112	5	3.1	0.6	74	4.12	340	993.23	6.2	7	0.7
11/22/05 3:00	297	1.34112	4.4	2.6	0	73	4.12	360	993.23	5.5	6.2	0.6
11/22/05 4:00	112	1.34112	3.3	1.5	-1.1	73	3.09	350	993.90	5.2	5.8	0.6
11/22/05 5:00	146	0.89408	1.7	0.4	-1.7	78	2.57	350	994.24	4.3	5.1	0.9
11/22/05 6:00	76	0.89408	2.2	0.7	-1.7	76	2.06	360	994.58	4.2	4.9	0.7
11/22/05 7:00	160	0.89408	3.3	1.5	-1.1	73	1.54	330	995.26	4	4.5	0.5
11/22/05 8:00	165	0.89408	6.1	3.5	0	65	2.57	350	995.60	5.3	5	-0.3
11/22/05 9:00	52	1.78816	8.3	4.5	-0.6	54	2.06	80	995.60	7.6	7	-0.6
11/22/05 10:00	109	0.89408	9.4	4.5	-2.2	45	2.06	200	994.92	9	8.2	-0.8
11/22/05 11:00	190	0.44704	11.7	5.1	-4.4	32	0.00	0	993.90	11.1	10.5	-0.7
11/22/05 12:00	162	0.89408	12.8	5.4	-5	29	0.00	0	992.55	12.5	11.5	-1.1
11/22/05 13:00	198	1.78816	14.4	6.4	-4.4	27	0.00	0	991.20	13.6	12.7	-0.9
11/22/05 14:00	212	1.78816	15	7	-3.3	28	2.57	190	989.84	14.1	13.4	-0.7
11/22/05 15:00	221	1.34112	15	7	-3.3	28	1.54	190	989.84	13.8	13.5	-0.3
11/22/05 16:00	226	1.34112	12.8	6.3	-2.2	36	3.09	210	989.16	12.8	13.4	0.5
11/22/05 17:00	183	0.44704	12.2	5.8	-2.8	35	1.54	130	989.16	9.9	12	2.1
11/22/05 18:00	194	0	8.9	4.3	-2.2	46	0.00	0	989.50	9.2	12	2.8
11/22/05 19:00	233	0.44704	7.8	3.8	-1.7	51	0.00	0	988.83	8.3	10.7	2.4
11/22/05 20:00	209	0	9.4	4.9	-1.1	48	2.06	170	988.49	8.2	9.9	1.7
11/22/05 21:00	153	0.44704	6.7	3.4	-1.1	58	1.54	190	988.15	8.4	10.7	2.3
11/22/05 22:00	208	0	4.4	2.3	-0.6	70	0.00	0	988.15	8.2	9.9	1.7
11/22/05 23:00	207	0	6.7	3.6	-0.6	60	0.00	0	987.47	7.2	8.5	1.3
11/23/05 0:00	185	0.44704	6.1	3.3	-0.6	63	0.00	0	986.79	6.4	7.7	1.3
11/23/05 1:00	181	0.89408	6.7	3.8	0	63	1.54	220	986.45	6	7.4	1.5
11/23/05 2:00	198	0.89408	3.3	1.9	0	79	1.54	190	98			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{OT} (%)	PCPN (in)	P _{ABS} (hPa)
11/19/05 3:00	41.5	3.4	4.8	1.4	7.5	0.8	174.2	8.5	-1	0	0	984.3
11/19/05 4:00	40.8	3.6	5	1.4	7.9	0.8	173	8.3	-1	0	0	983.91
11/19/05 5:00	40.8	3.1	4.4	1.3	7.6	0.7	177.3	8.5	-1	0	0	984.1
11/19/05 6:00	41.9	3.5	4.8	1.3	7.5	0.7	173.5	8.9	-0.4	0	0	983.79
11/19/05 7:00	43.3	3.2	4.5	1.3	7.6	0.7	174.8	9.5	45.4	0.16	0	983.91
11/19/05 8:00	38.4	4.3	5.6	1.3	10.1	1	172.4	9.8	206	0.74	0	983.97
11/19/05 9:00	34.9	5	6.4	1.4	10.4	1	183.2	9.6	360.7	1.3	0	984.02
11/19/05 10:00	34.3	4.7	5.7	1.1	9.8	1.1	198.5	11.7	494.1	1.78	0	984.29
11/19/05 11:00	33.3	4	4.8	0.9	8	1	201.2	13.2	528.1	1.9	0	983.98
11/19/05 12:00	31.7	3.7	4.5	0.8	8.6	1.1	225.2	14.9	479.3	1.73	0	983.76
11/19/05 13:00	30.9	3.1	3.8	0.7	6.8	1.1	252.4	15.2	400	1.44	0	983.72
11/19/05 14:00	31.3	2.6	3.2	0.6	6.6	0.9	271.4	17.1	397.3	1.43	0	983.84
11/19/05 15:00	39.2	1.5	2.1	0.5	6.5	0.7	295.3	18.8	183.6	0.66	0	984.21
11/19/05 16:00	47.4	2.2	2.8	0.7	5.7	0.8	301.2	14.1	20.2	0.07	0	984.84
11/19/05 17:00	51.7	2	2.7	0.8	5.9	0.7	307.8	12.4	0.2	0	0	985.5
11/19/05 18:00	54.3	0.8	1.6	0.8	3.4	0.5	297.3	13.7	-1	0	0	986.09
11/19/05 19:00	54.8	1.2	2	0.8	5.8	0.6	294.3	13.9	-1	0	0	986.49
11/19/05 20:00	58.4	2.1	2.9	0.8	6.3	0.7	303.7	12.5	-1	0	0	986.98
11/19/05 21:00	63.4	1.9	2.7	0.8	6.2	0.8	296.3	13.9	-1	0	0	987.55
11/19/05 22:00	69.8	0.9	1.7	0.9	4.5	0.5	285.6	14.7	-1	0	0	988.07
11/19/05 23:00	74.3	1.3	2.2	0.9	4.8	0.6	291.7	16	-1	0	0	988.61
11/20/05 0:00	75.8	1.7	2.5	0.8	5.6	0.7	299.5	13.5	-1	0	0	989.85
11/20/05 1:00	80.3	1.2	2	0.8	4.4	0.5	290.1	14.3	-1	0	0	988.77
11/20/05 2:00	78.1	1.8	2.5	0.6	5.4	0.8	293.7	14	-1	0	0	989.01
11/20/05 3:00	77.3	2.2	2.9	0.7	5.7	0.8	300.2	13.3	-1	0	0	989.11
11/20/05 4:00	80.5	1.9	2.6	0.7	5.4	0.7	299.2	13.9	-1	0	0	989.14
11/20/05 5:00	81.8	1.9	2.6	0.7	5.8	0.7	297.9	14.1	-1	0	0	989.23
11/20/05 6:00	80	1.7	2.3	0.6	4.8	0.6	301.7	13.8	-0.6	0	0	989.49
11/20/05 7:00	79.6	2.7	3.4	0.8	7.3	0.8	317.7	12.5	24.8	0.09	0	989.7
11/20/05 8:00	76.3	3.3	4.2	0.9	8	0.8	121.4	12.2	118.8	0.43	0	989.99
11/20/05 9:00	72.1	3.3	4.2	0.9	7	0.9	64.4	13.2	191	0.69	0	990.25
11/20/05 10:00	67.8	2.9	3.4	0.5	6.2	0.8	46.4	13.8	265.6	0.96	0	990.33
11/20/05 11:00	60	2.5	3	0.5	5.5	0.8	97.3	17.6	380.3	1.37	0	989.8
11/20/05 12:00	51.2	2.4	2.9	0.5	5.8	0.9	87.1	16.6	299.5	1.08	0	988.98
11/20/05 13:00	50.6	2.2	2.7	0.5	5.6	0.8	101.8	16	172.8	0.62	0	988.38
11/20/05 14:00	51.1	1.8	2.3	0.5	4.6	0.5	176.3	14.1	78.3	0.28	0	988.05
11/20/05 15:00	52.6	1.7	2.2	0.5	4.2	0.5	259.4	11.5	42	0.15	0	988.1
11/20/05 16:00	54.7	0.5	1.3	0.7	3	0.2	313.2	9.9	13.6	0.05	0	988.32
11/20/05 17:00	57.7	0.3	1.1	0.8	1.9	0.1	320.1	6.1	0.3	0	0	988.4
11/20/05 18:00	59.9	0.7	1.5	0.8	2.5	0.2	284.5	7.4	-1	0	0	988.73
11/20/05 19:00	60.5	0.7	1.5	0.8	2.3	0.2	323.1	7.7	-1	0	0	988.79
11/20/05 20:00	62.8	0.6	1.5	0.9	2.3	0.2	257.6	8.4	-1	0	0	988.56
11/20/05 21:00	64.2	0.6	1.3	0.7	2.7	0.3	226.1	10.1	-1	0	0	988.45
11/20/05 22:00	65.7	1	1.7	0.7	3.1	0.3	127.2	9	-1	0	0	988.24
11/20/05 23:00	66.6	0.9	1.5	0.6	2.5	0.2	52.1	6.2	-1	0	0	988.16
11/21/05 0:00	75.1	0.3	1.1	0.8	2	0.2	255.3	8	-1	0	0	987.72
11/21/05 1:00	79.8	0.1	0.8	0.7	1.8	0.1	289.3	4.4	-1	0	0	987.37
11/21/05 2:00	89.7	0.3	1.1	0.8	2.7	0.2	265.8	4.5	-1	0	0	987.39
11/21/05 3:00	88.8	1.2	2	0.8	2.9	0.3	288.6	6.4	-1	0	0	987.44
11/21/05 4:00	88.5	1.1	1.9	0.7	2.8	0.2	283.8	5.4	-1	0	0	987.15
11/21/05 5:00	89.3	0.9	1.8	0.8	3.1	0.2	267	6.1	-1	0	0	987.26
11/21/05 6:00	91.9	1	1.8	0.8	3.5	0.3	244.4	7.5	-0.4	0	0	987.3
11/21/05 7:00	92.8	1.4	2	0.7	3.7	0.3	246.4	8.4	47.1	0.17	0	987.61
11/21/05 8:00	85.6	1.9	2.4	0.5	4.1	0.4	233.7	9.9	208.4	0.75	0	987.71
11/21/05 9:00	56	2.5	2.9	0.5	6.1	0.6	237.6	13	366.2	1.32	0	987.72
11/21/05 10:00	58.4	2.8	3.4	0.6	6.1	0.8	235.3	14.8	487.4	1.75	0	987.46
11/21/05 11:00	48.3	2.7	3.2	0.5	5.5	0.8	244	18.2	552.9	1.99	0	986.86
11/21/05 12:00	39.1	2.8	3.3	0.5	6.9	0.9	257.8	19.4	562	2.02	0	986.01
11/21/05 13:00	33.7	2.5	2.9	0.5	6.3	0.9	271.7	19.3	511.3	1.84	0	985.18
11/21/05 14:00	30.3	2.6	3.2	0.6	6.5	1	279.4	18.9	406	1.46	0	984.61
11/21/05 15:00	29.3	2.4	3	0.6	6.7	0.9	273.5	15.7	259.9	0.94	0	984.53
11/21/05 16:00	30.4	1.4	2	0.7	5.5	0.6	275.5	16.4	100.6	0.36	0	984.15
11/21/05 17:00	35.8	0.9	1.7	0.8	3.1	0.3	247.8	10.8	2.2	0.01	0	984.47
11/21/05 18:00	43.6	1.3	2.1	0.8	4	0.5	253.1	12.4	-1	0	0	984.99
11/21/05 19:00	47.8	0.9	1.9	0.9	3.5	0.4	266.8	12.1	-1	0	0	985.27
11/21/05 20:00	51.9	1.1	2.2	1.1	5.2	0.4	295	11.3	-1	0	0	985.36
11/21/05 21:00	52	2.7	3.8	1.1	6.5	0.7	317.5	11.1	-1	0	0	985.68
11/21/05 22:00	56.2	3.1	4.2	1.1	6.2	0.7	325.1	8.8	-1	0	0	986.03
11/21/05 23:00	58.8	3.5	4.6	1.1	7.3	0.8	181.3	9.6	-1	0	0	986.32
11/22/05 0:00	59.8	3.2	4.3	1.1	7	0.7	210.1	9.3	-1	0	0	986.31
11/22/05 1:00	62.3	2.6	3.6	1	6.7	0.7	234.4	9.6	-1	0	0	986.18
11/22/05 2:00	62.2	2.2	3.2	1	6	0.6	317.8	10.5	-1	0	0	986.36
11/22/05 3:00	63.9	2.4	3.4	1	6.5	0.6	320.8	10.9	-1	0	0	986.45
11/22/05 4:00	64.8	2.6	3.5	0.9	5.5	0.6	37.2	9.5	-1	0	0	986.53
11/22/05 5:00	68.3	1.8	2.7	0.8	5.1	0.4	178.3	9.6	-1	0	0	987.05
11/22/05 6:00	67.2	1.8	2.6	0.8	4.6	0.5	12.5	9.4	-0.6	0	0	987.37
11/22/05 7:00	69.2	1	1.7	0.7	3.5	0.3	167.3	11.6	45.3	0.16	0	987.87
11/22/05 8:00	65.8	0.9	1.3	0.4	3.5	0.3	267.5	13.2	190	0.68	0	988.26
11/22/05 9:00	50.2	1.4	1.8	0.3	3.4	0.5	49.9	18.6	349.9	1.26	0	988.31
11/22/05 10:00	47.4	1.1	1.3	0.2	2.7	0.5	165.7	18.7	467.4	1.68	0	987.95
11/22/05 11:00	35.5	1	1.1	0.1	3.2	0.5	106.6	27.5	525.5	1.89	0	986.95
11/22/05 12:00	34.2	1.9	2.3	0.3	4.4	0.6	187.7	19.6	534.5	1.92	0	985.76
11/22/05 13:00	30.3	2.1	2.5	0.4	4.7	0.8	180.3	17.3	485.8	1.75	0	984.24
11/22/05 14:00	31.3	2.7	3.2	0.5	5.5	0.7	191.4	14.2	364.5	1.31	0	983.06
11/22/05 15:00	31.6	2.5	3.1	0.6	7.3	0.6	208	11.6	221.7	0.8	0	982.63
11/22/05 16:00	34	1.6	2.3	0.7	5.2	0.5	211.2	8.9	57.3	0.21	0	982.28
11/22/05 17:00	43.5	0	0.3	0.3	1	0.1	167	1.4	2.3	0.01	0	982.16
11/22/05 18:00	46.8	0.1	0.3	0.2	1.2	0.1	65.9	0.8	-1	0	0	982.24
11/22/05 19:00	51.4	0.2	1.1	1	2.4	0.2	176.5	7.5	-1	0	0	981.79
11/22/05 20:00	48.8	0.9	1.6	0.7	2.3	0.2	181.3	6.1	-1	0	0	981.4
11/22/05 21:00	50	1	1.9	0.9	3.1	0.2	199.6	4.6	-1	0	0	981.28
11/22/05 22:00	52.3	1.2	2	0.8	2.6	0.2	212.2	3.5	-1	0	0	980.95
11/22/05 23:00	58.9	1.1	2	0.8	3.4	0.3	235.2	8.3	-1	0	0	980.49
11/23/05 0:00	66.6	1.5	2.3	0.8	3.6	0.3	231.4	7.9	-1	0	0	980.02
11/23/05 1:00	70.8	1.5	2.3	0.8	3.4	0.2	217.8	4.8	-1	0	0	979.52
11/23/05 2:00	71.3	1.6	2.5	0.9	3.7	0.2	209.4	5	-1	0	0	978.93
11/23/05 3:00	69.8	1.7	2.7	1	4.6	0.3	217.2	7.2	-1	0	0	978.46
11/23/05 4:00	68.2	2	3.3	1.3	4.7	0.4	225.8	6.2	-1	0	0	977.79
11/23/05 5:00	66.7	2.8	4	1.2	6.3	0.6	229.6	8.5	-1	0	0	977.22
11/23												

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{MAX} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
11/23/05 18:00	0.02951	19.2	2.2	6.7	292.5	12.5	0.023	0	0.011	0.011	13.3	17.22	30	
11/23/05 19:00	0.03123	18.8	0.4	12.1	292.5	14.3	0.015	0.008	0.019	0.027	23.6	15.56	33	
11/23/05 20:00	0.03262	19.4	0.9	8.5	292.5	13.9	0.004	0.025	0.027	0.052	19.2	14.44	38	
11/23/05 21:00	0.02945	18.7	1.1	1.8	90	4	0.005	0.039	0.025	0.064	16.4	13.89	38	
11/23/05 22:00	0.03071	18.4	0.6	1.8	112.5	5.8	0.008	0.013	0.024	0.037	16.3	13.89	39	
11/23/05 23:00	0.03197	17.9	0.7	1.3	202.5	4.5	0.001	0.049	0.018	0.067	16.4	9.44	56	
11/24/05 0:00	0.03249	17.4	0.3	0.9	202.5	3.1	0.001	0.072	0.015	0.087	25.7	7.78	64	
11/24/05 1:00	0.03192	17	0.6	0.9	225	3.1	0	0.087	0.01	0.098	22.2	6.67	70	
11/24/05 2:00	0.03116	16.7	0.4	0.9	225	2.7	0.001	0.089	0.009	0.098	18.6	5.56	74	
11/24/05 3:00	0.03037	16.7	0.2	0.9	225	1.8	0.001	0.109	0.007	0.116	22.7	4.44	78	
11/24/05 4:00	0.02372	16	1.3	0.4	202.5	1.8	0	0.1	0.007	0.107	24.1	3.33	81	
11/24/05 5:00	0.0231	15	1.1	0.9	225	4.5	0	0.097	0.006	0.103	24.7	2.78	84	
11/24/05 6:00	0.02694	14.6	0.5	4	45	8	0	0.085	0.006	0.091	20.1	2.22	86	
11/24/05 7:00	0.02595	13.8	1.7	5.4	22.5	10.3	0	0.06	0.009	0.069	20	2.22	87	
11/24/05 8:00	0.01949	13	1.6	3.1	0	8.5	0.007	0.046	0.013	0.059	19.4	7.22	67	
11/24/05 9:00	0.01681	12.8	1.3	2.2	247.5	12.1	0.016	0.006	0.006	0.013	14	10.00	59	
11/24/05 10:00	0.01736	15	3.9	6.3	22.5	12.5	0.02	0.004	0.004	0.009	13.1	12.22	50	
11/24/05 11:00	0.0214	18.8	6.4	5.8	22.5	14.8	0.023	0.005	0.005	0.01	13.1	13.89	43	
11/24/05 12:00	0.02272	22.5	4.2	4	22.5	9.8	0.022	0.007	0.008	0.015	10.7	14.44	41	
11/24/05 13:00	0.0252	20.2	6.7	4	22.5	10.3	0.022	0.005	0.008	0.013	10.6	13.89	42	
11/24/05 14:00	0.02433	16.1	3.9	3.6	45	8.9	0.026	0.003	0.007	0.01	12.8	13.89	41	
11/24/05 15:00	0.02119	15.3	2.3	4.9	22.5	10.3	0.025	0.004	0.005	0.009	10.6	13.89	42	
11/24/05 16:00	0.02288	14.7	2.4	4.9	22.5	10.3	0.024	0.004	0.005	0.009	13.2	12.78	46	
11/24/05 17:00	0.02351	13.1	1.6	5.8	22.5	10.7	0.023	0.004	0.005	0.009	10.9	11.11	50	
11/24/05 18:00	0.02477	11.8	0.8	4.9	22.5	10.7	0.022	0.004	0.005	0.009	11.8	9.44	52	
11/24/05 19:00	0.02409	10.7	1.1	6.7	22.5	11.2	0.022	0.005	0.006	0.011	10.9	8.33	50	
11/24/05 20:00	0.02485	9.8	1.1	5.8	45	10.3	0.021	0.004	0.006	0.01	11.5	6.67	50	
11/24/05 21:00	0.02342	8.8	0.8	7.6	22.5	12.5	0.016	0.004	0.011	0.015	11.6	6.11	48	
11/24/05 22:00	0.02346	8.7	1.1	5.8	22.5	13	0.019	0.004	0.009	0.013	11.4	5.00	43	
11/24/05 23:00	0.02496	7.7	1.3	7.6	22.5	12.5	0.019	0.002	0.009	0.011	9.7	3.89	42	
11/25/05 0:00	0.02642	7	0.8	8	22.5	12.1	0.018	0.001	0.007	0.008	11.1	2.22	47	
11/25/05 1:00	0.02369	7.4	1.1	5.8	0	10.3	0.019	0	0.006	0.006	10.7	1.11	49	
11/25/05 2:00	0.0239	6.8	1.1	3.6	0	11.6	0.016	0	0.008	0.008	11.8	0.00	52	
11/25/05 3:00	0.02437	4.9	2.9	2.7	225	10.7	0.011	0.001	0.012	0.012	12.7	-1.11	58	
11/25/05 4:00	0.009883	4.5	1.8	1.8	247.5	4.5	0.01	0.002	0.012	0.014	11.8	-1.11	60	
11/25/05 5:00	0.01417	3.8	1.6	2.2	225	4.5	0.016	0.001	0.007	0.007	10.2	-1.11	56	
11/25/05 6:00	0.0172	3.8	1.6	1.8	247.5	3.6	0.015	0.002	0.008	0.01	13.1	-1.67	58	
11/25/05 7:00	0.02218	2.8	0.7	2.2	247.5	3.6	0.013	0.003	0.01	0.013	11.1	-2.22	60	
11/25/05 8:00	0.02319	4.1	3.7	4	112.5	7.2	0.014	0.004	0.009	0.013	11.4	-0.56	57	
11/25/05 9:00	0.02286	5.7	4.5	4	112.5	7.6	0.014	0.01	0.01	0.02	11.5	1.67	46	
11/25/05 10:00	0.01644	11.9	9.8	2.7	202.5	6.7	0.018	0.011	0.012	0.023	10.9	6.67	31	
11/25/05 11:00	0.01678	20.6	9	1.8	202.5	6.3	0.024	0.004	0.007	0.012	11.2	10.00	29	
11/25/05 12:00	0.02343	20	8.3	2.7	202.5	8	0.026	0.004	0.007	0.011	12.4	12.22	28	
11/25/05 13:00	0.02424	25.3	7.7	1.8	202.5	5.8	0.03	0.002	0.006	0.008	14.6	13.89	27	
11/25/05 14:00	0.0287	25.1	6	2.2	202.5	6.7	0.033	0.001	0.005	0.006	13.2	15.00	28	
11/25/05 15:00	0.03334	16.3	11.7	5.8	202.5	10.7	0.031	0.001	0.007	0.008	15.5	14.44	30	
11/25/05 16:00	0.03254	13.6	1.8	5.4	202.5	10.7	0.026	0	0.01	0.011	18.2	13.89	32	
11/25/05 17:00	0.03161	12.8	0.6	5.4	202.5	10.3	0.019	0.001	0.016	0.017	14.6	13.89	32	
11/25/05 18:00	0.02825	13.1	1.3	3.6	202.5	8.5	0.019	0.001	0.015	0.016	14.9	13.33	30	
11/25/05 19:00	0.02594	12.6	2	4	202.5	9.8	0.021	0	0.012	0.012	16.1	12.22	32	
11/25/05 20:00	0.02765	11.9	0.9	4.5	202.5	8.9	0.017	0	0.015	0.016	13.9	11.11	35	
11/25/05 21:00	0.02716	11.2	0.7	4.5	202.5	8.9	0.018	0	0.013	0.013	20.2	11.11	36	
11/25/05 22:00	0.02641	10.4	0.8	7.2	202.5	10.7	0.013	0.004	0.016	0.02	19.8	9.44	41	
11/25/05 23:00	0.0275	10.2	0.3	7.6	202.5	10.3	0.005	0.01	0.022	0.032	21.5	7.22	50	
11/26/05 0:00	0.02933	10.1	0.8	8.9	202.5	13.4	0.016	0.016	0.02	0.027	23.1	7.22	52	
11/26/05 1:00	0.02717	9.8	0.2	8.9	202.5	12.5	0.008	0.002	0.016	0.02	19.3	8.89	49	
11/26/05 2:00	0.02813	10.4	1	11.2	202.5	14.3	0.021	0	0.008	0.008	16	11.11	45	
11/26/05 3:00	0.02712	10.6	0.4	10.3	202.5	13.9	0.022	0	0.007	0.006	19.3	11.67	44	
11/26/05 4:00	0.02566	10.6	0.3	10.3	202.5	13.9	0.021	0	0.008	0.007	29.6	11.67	45	
11/26/05 5:00	0.02535	10.8	0.6	8.9	202.5	12.5	0.02	0	0.007	0.007	21	10.56	51	
11/26/05 6:00	0.02425	10.6	0.4	10.3	202.5	13.9	0.018	0	0.009	0.009	19.9	10.00	58	
11/26/05 7:00	0.02494	11.2	0.9	12.1	202.5	15.2	0.017	0	0.01	0.01	22.6	11.11	63	
11/26/05 8:00	0.02565	11.7	0.4	12.5	202.5	15.6	0.019	0	0.01	0.01	24.7	12.22	65	
11/26/05 9:00	0.02423	12	0.4	12.5	202.5	15.2	0.02	0.001	0.009	0.01	27.9	14.44	65	
11/26/05 10:00	0.02274	12.7	1.3	9.8	202.5	14.8	0.024	0.002	0.007	0.009	27.2	16.67	62	
11/26/05 11:00	0.02442	16.4	5.4	8.5	202.5	13.9	0.032	0.001	0.005	0.006	24.2	18.89	58	
11/26/05 12:00	0.02907	20.7	3.3	7.6	202.5	13.4	0.036	0	0.004	0.004	23.7	20.56	57	
11/26/05 13:00	0.03304	20.2	2.2	10.7	202.5	17.9	0.033	0.001	0.005	0.006	21.6	20.00	60	
11/26/05 14:00	0.03246	18.3	2.9	9.4	202.5	16.1	0.034	0	0.005	0.005	20.9	20.00	63	
11/26/05 15:00	0.033	17.5	1.2	12.1	202.5	20.6	0.032	0	0.005	0.006	23.2	19.44	63	
11/26/05 16:00	0.03235	17.6	2.3	8.9	202.5	15.6	0.031	0	0.006	0.006	17.3	18.33	68	
11/26/05 17:00	0.03085	15.7	1.8	8.5	202.5	16.1	0.025	0	0.008	0.008	21.1	16.67	79	
11/26/05 18:00	0.02683	14.4	0.5	6.7	202.5	19	0.023	0	0.008	0.008	24.2	15.56	83	
11/26/05 19:00	0.02606	14.1	0.6	6.7	202.5	16.1	0.022	0	0.009	0.009	21.2	15.00	84	
11/26/05 20:00	0.02393	13.8	0.7	5.8	202.5	13.4	0.018	0	0.009	0.009	23.7	14.44	87	
11/26/05 21:00	0.02097	13.6	0.5	6.3	202.5	15.2	0.018	0	0.008	0.008	25.7	13.89	86	
11/26/05 22:00	0.02003	13.6	0.7	5.4	202.5	13.4	0.016	0	0.009	0.009	29.7	13.33	86	
11/26/05 23:00	0.01861	13	0.5	5.8	202.5	14.3	0.018	0	0.007	0.007	27	13.89	87	
11/27/05 0:00	0.0206	13.1	0.3	7.2	202.5	14.8	0.019	0	0.006	0.006	27.5	13.89	88	
11/27/05 1:00	0.02031	13.1	0.4	6.7	202.5	13.9	0.02	0	0.005	0.004	30.1	13.89	88	
11/27/05 2:00	0.02004	12.9	0.3	8.5	202.5	16.5	0.022	0	0.004	0.003	23.1	14.44	87	
11/27/05 3:00	0.02089	13	0.5	8	202.5	14.8	0.02	0	0.004	0.004	23.8	14.44	87	
11/27/05 4:00	0.02078	13.3	0.8	5.4	202.5	12.5	0.019	0	0.004	0.004	22.6	13.89	88	
11/27/05 5:00	0.02142	13	0.5	7.6	202.5	15.2	0.025	0	0.003	0.002	22.7	15.00	85	
11/27/05 6:00	0.02689	13.6	0.6	11.2	202.5	17.4	0.027	0	0.002	0.002	21.2			

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
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Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T _o (°C)					T _{A,SFC} (°C)	T _{A,800} (°C)	
11/23/05 18:00	269	1.34112	15	8.1	0	36	3.09	280	981.71	15.8	17.1	1.2
11/23/05 19:00	263	0.89408	15.6	8.4	0	35	2.57	310	982.05	14.8	16.2	1.4
11/23/05 20:00	291	0.89408	13.3	7.2	0	40	3.09	300	982.39	14.9	16.2	1.4
11/23/05 21:00	302	0.89408	11.7	6.7	0.6	47	1.54	340	983.07	14.5	15.9	1.4
11/23/05 22:00	307	0.89408	12.8	7.2	0.6	44	1.54	290	983.07	13.1	14.9	1.8
11/23/05 23:00	193	0	8.9	5.2	0.6	56	0.00	0	983.41	12.2	14.5	2.4
11/24/05 0:00	172	0	8.9	5.2	0.6	56	0.00	0	983.07	11.9	14	2.1
11/24/05 1:00	208	0.44704	7.8	4.7	0.6	61	0.00	0	983.41	11.5	13.6	2.1
11/24/05 2:00	187	0	7.8	4.7	0.6	61	0.00	0	984.08	12.7	14.8	2.1
11/24/05 3:00	201	0	6.7	4.1	0.6	65	0.00	0	984.42	13.1	14.4	1.3
11/24/05 4:00	231	0	3.9	2.5	0.6	79	2.57	320	985.10	11.8	12.8	0.9
11/24/05 5:00	122	0	5	3.1	0.6	74	2.57	340	985.44	11.4	12.2	0.8
11/24/05 6:00	228	0.44704	6.1	3.5	0	65	2.06	330	986.45	10.3	10.7	0.5
11/24/05 7:00	207	0.44704	5.6	3.7	1.1	73	2.06	330	987.47	9.1	9.4	0.3
11/24/05 8:00	75	1.78816	8.9	5.9	2.2	63	4.12	20	988.15	8.9	8.8	-0.1
11/24/05 9:00	45	3.57632	12.2	7.3	1.7	49	7.72	50	989.50	9.6	9.2	-0.4
11/24/05 10:00	56	3.57632	13.9	8.2	1.7	44	7.72	50	989.84	11.8	11.2	-0.6
11/24/05 11:00	55	4.4704	15	8.5	1.1	39	5.66	60	990.18	13.4	12.7	-0.7
11/24/05 12:00	60	4.02336	14.4	8.2	1.1	41	5.14	50	989.84	14	13.2	-0.8
11/24/05 13:00	59	3.57632	15	8.2	1.1	41	4.63	30	989.50	13.6	13.2	-0.4
11/24/05 14:00	62	3.57632	15	8.5	1.1	39	5.14	50	989.50	13.3	13	-0.3
11/24/05 15:00	51	4.02336	13.3	7.7	1.1	44	4.63	30	990.18	12.5	12.5	-0.1
11/24/05 16:00	49	4.02336	11.7	7.1	1.7	51	4.63	50	990.52	11	11.2	0.2
11/24/05 17:00	43	3.57632	10.6	6.1	0.6	50	4.63	30	991.20	9.4	9.6	0.3
11/24/05 18:00	42	3.12928	9.4	5.5	0.6	55	2.57	30	992.21	7.9	8.2	0.3
11/24/05 19:00	42	3.12928	7.8	3.7	-2.2	50	4.12	20	992.55	6.4	6.6	0.3
11/24/05 20:00	44	2.68224	6.7	2.2	-5	43	6.17	50	992.55	5.1	5.3	0.2
11/24/05 21:00	51	2.68224	5.6	0.9	-7.2	40	4.63	60	993.57	3.8	4.1	0.3
11/24/05 22:00	47	2.2352	4.4	-0.3	-9.4	36	3.60	50	993.57	2.4	2.8	0.4
11/24/05 23:00	36	2.2352	3.9	-0.8	-10	36	5.66	50	993.90	1.4	1.7	0.3
11/25/05 0:00	32	1.78816	2.8	-1.6	-10.6	37	5.14	50	993.57	0.4	0.7	0.3
11/25/05 1:00	35	1.78816	1.7	-2.4	-11.1	38	4.12	50	993.57	-0.3	0	0.3
11/25/05 2:00	115	0.89408	1.1	-2.9	-11.7	38	1.54	70	993.90	-0.9	-0.7	0.2
11/25/05 3:00	170	0.44704	0.6	-3.2	-11.7	40	2.57	50	993.57	-1.7	-1.4	0.4
11/25/05 4:00	50	0.89408	0	-3.4	-11.1	43	2.57	30	993.23	-2.1	-1.8	0.3
11/25/05 5:00	39	0.89408	0	-3.4	-11.1	43	3.09	50	992.89	-2.3	-2.1	0.2
11/25/05 6:00	33	1.34112	-0.6	-3.7	-10.6	47	2.06	30	993.23	-2.7	-2.5	0.2
11/25/05 7:00	38	1.34112	-1.7	-3.8	-8.3	61	2.06	340	993.57	-2.9	-2.8	0.1
11/25/05 8:00	90	0.89408	0.6	-2.8	-10	45	0.00	0	993.57	-1.2	-1.6	-0.4
11/25/05 9:00	96	0.44704	0.9	-0.8	-10	36	1.54	50	993.57	2.8	2.1	-0.7
11/25/05 10:00	185	1.34112	7.8	1.7	-8.9	30	4.12	170	992.89	5.5	4.5	-1
11/25/05 11:00	187	2.2352	10.6	3.8	-6.7	29	4.63	170	991.87	7.9	6.9	-1
11/25/05 12:00	160	2.2352	13.3	5.5	-5.6	27	4.12	150	990.52	10.7	9.6	-1.1
11/25/05 13:00	172	2.68224	14.4	6.4	-4.4	27	6.17	160	989.50	12.6	11.7	-0.9
11/25/05 14:00	196	3.57632	15	7	-3.3	28	6.17	180	988.49	13.8	13.2	-0.6
11/25/05 15:00	191	3.12928	14.4	6.9	-2.8	31	4.63	170	988.15	13.7	13.6	-0.1
11/25/05 16:00	191	2.68224	13.9	6.5	-3.3	30	4.12	180	987.81	13.1	13.2	0.1
11/25/05 17:00	171	1.34112	12.2	5.3	-4.4	31	3.09	140	988.15	12.7	12.9	0.1
11/25/05 18:00	162	1.78816	12.8	5.8	-3.9	31	4.12	150	988.49	12	12.2	0.2
11/25/05 19:00	173	1.78816	11.1	4.9	-3.9	35	4.63	150	988.49	10.8	11.2	0.4
11/25/05 20:00	174	1.34112	10	4.3	-3.9	38	3.60	150	988.49	10	10.7	0.6
11/25/05 21:00	187	2.2352	10	4.5	-3.3	39	4.63	160	988.49	9.9	10.1	0.3
11/25/05 22:00	165	0.89408	9.4	4.3	-2.8	43	3.60	170	988.49	8.6	9.4	0.9
11/25/05 23:00	157	0.89408	6.7	2.9	-2.8	51	3.09	130	987.81	7.4	8.5	1.1
11/26/05 0:00	136	0.89408	9.9	4.3	-2.2	46	2.9	140	987.47	7.2	8	0.8
11/26/05 1:00	163	0.89408	10.6	5.5	-1.1	45	4.12	170	986.79	7.9	8.2	0.4
11/26/05 2:00	192	1.78816	10.6	5.5	-1.1	45	3.60	170	986.12	9	9.2	0.2
11/26/05 3:00	194	2.2352	11.1	5.9	-0.6	45	4.12	170	985.44	9.4	9.7	0.3
11/26/05 4:00	184	1.78816	11.1	6.2	0	47	4.12	160	984.76	10.7	10.8	0.2
11/26/05 5:00	168	1.34112	10	5.8	0.6	52	3.09	160	984.42	9.6	10.3	0.6
11/26/05 6:00	187	1.78816	10	6	1.1	54	3.09	160	984.42	8.5	9.1	0.6
11/26/05 7:00	200	2.68224	10.6	6.7	2.2	56	5.66	180	984.76	8.5	9.1	0.5
11/26/05 8:00	202	3.12928	12.8	8.7	4.4	57	6.17	170	984.42	10.9	10.9	0.1
11/26/05 9:00	200	3.57632	14.4	10.2	6.1	58	6.17	170	984.76	13.1	12.9	-0.2
11/26/05 10:00	199	4.02336	16.7	11.7	7.2	54	5.66	170	983.75	15	14.6	-0.4
11/26/05 11:00	204	4.4704	20	14.9	11.1	57	7.72	190	982.39	18.2	17.4	-0.8
11/26/05 12:00	201	4.91744	20	15.2	11.7	59	10.29	170	981.04	19.7	19	-0.7
11/26/05 13:00	194	4.91744	20	15.5	12.2	61	10.29	180	980.02	19.7	19.3	-0.4
11/26/05 14:00	199	5.81152	19.4	15.2	12.2	63	9.77	190	979.00	18.9	18.8	-0.1
11/26/05 15:00	205	4.4704	18.9	14.8	11.7	63	10.29	180	979.34	18.9	18.8	-0.1
11/26/05 16:00	189	4.4704	16.7	14.5	12.8	78	7.20	170	979.00	17.8	18	0.1
11/26/05 17:00	188	3.57632	15	13.8	12.8	87	8.75	150	978.33	15.5	15.9	0.3
11/26/05 18:00	190	3.12928	15.6	13.7	12.2	80	6.17	160	977.99	14.6	14.8	0.3
11/26/05 19:00	177	3.12928	14.4	12.9	11.7	84	5.14	160	978.33	13.9	14.2	0.3
11/26/05 20:00	179	2.68224	13.9	12.7	11.7	87	5.66	150	977.99	13.8	14	0.2
11/26/05 21:00	174	2.68224	13.3	12.1	11.1	87	7.20	150	977.31	13.2	13.4	0.2
11/26/05 22:00	179	3.12928	13.3	12.4	11.7	90	5.66	170	977.31	12.9	13	0.1
11/26/05 23:00	183	3.57632	13.9	12.7	11.7	87	6.17	160	975.96	13.1	13.2	0.1
11/27/05 0:00	176	3.12928	13.9	13	12.2	90	5.66	140	974.60	13.6	13.7	0.1
11/27/05 1:00	183	4.02336	13.9	13	12.2	90	6.17	160	973.59	13.5	13.6	0.1
11/27/05 2:00	192	4.02336	13.9	12.7	11.7	87	5.14	160	972.91	13.8	13.9	0.1
11/27/05 3:00	175	3.12928	13.3	12.4	11.7	90	6.69	160	971.22	13.2	13.2	0
11/27/05 4:00	183	3.12928	14.4	12.9	11.7	84	6.17	180	970.88	13	13.1	0
11/27/05 5:00	190	4.02336	15	13.4	12.2	83	7.72	160	969.86	13.5	13.6	0.1
11/27/05 6:00	187	4.4704	15.6	14	12.8	84	7.72	160	969.18	14.6	14.7	0.1
11/27/05 7:00	188	4.02336	16.1	14.2	12.8	81	7.20	170	968.51	15	15.1	0.1
11/27/05 8:00	186	4.91744	16.7	14.1	12.2	75	9.26	170	968.17	15.5	15.6	0.1
11/27/05 9:00	186	4.91744	17.2	14.1	11.7	70	10.29	170	968.17	16.1	16.1	0
11/27/05 10:00	189	4.91744	17.8	14.3	11.7	68	10.80	180	967.15	16.5	16.6	0
11/27/05 11:00	188	5.36448	18.9	14.8	11.7	63	9.77	180	965.46	17.7	17.5	-0.2
11/27/05 12:00	192	5.81152	20.6	15.4	11.7	57	10.29	180	963.77	19.4	19	-0.4
11/27/05 13:00	190	5.81152	21.7	15.3	10.6	49	11.83	180	962.75	19.3	19.4	0.1
11/27/05 14:00	202	7.15264	22.2	11.8	1.7	26	16.46	180	962.41	19.7	20.4	0.7
11/27/05 15:00	205	8.04672	22.2	9.4	-6.7	14	16.46	200	961.73	20.8	21.3	0.5
11/27/05 16:00	214	8.49376	21.1	8.1</								

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{SUX} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	StOT (%)	PCPN (in)	P _{Abs} (hPa)
11/23/05 18:00	33.2	1.5	2.5	1	4.5	0.4	238.5	9.9	-1	0	0	975.05
11/23/05 19:00	35.1	1.1	2	0.9	4	0.4	246.6	11	-1	0	0	975.43
11/23/05 20:00	33.3	0.6	1.8	1.2	3.3	0.4	276.8	12	-1	0	0	975.73
11/23/05 21:00	33.2	0.6	1.9	1.1	3.6	0.4	290.6	12.2	-1	0	0	976.03
11/23/05 22:00	36.5	0.6	1.7	1.1	2.7	0.3	268.3	8.9	-1	0	0	976.34
11/23/05 23:00	39.7	0.6	1.8	1.2	3	0.3	279.8	9	-1	0	0	976.5
11/24/05 0:00	41	0.6	1.6	1	3.3	0.3	289.9	9.5	-1	0	0	976.44
11/24/05 1:00	42.8	1.3	2.1	0.8	3.3	0.3	289	8.9	-1	0	0	976.44
11/24/05 2:00	41.7	1.5	2.6	1.1	4.1	0.3	232.3	8.6	-1	0	0	976.96
11/24/05 3:00	40.3	1.9	2.7	0.8	4.7	0.5	21.6	10.6	-1	0	0	977.28
11/24/05 4:00	44.3	1.8	2.4	0.7	4.2	0.4	32.7	11.6	-1	0	0	977.76
11/24/05 5:00	46.8	2.1	2.8	0.7	6	0.6	29.3	11.5	-1	0	0	978.36
11/24/05 6:00	51.4	3.2	4	0.8	7.8	0.9	26.6	12.1	-0.6	0	0	978.97
11/24/05 7:00	57.3	2.7	3.2	0.6	5.6	0.8	42.4	13.3	39.9	0.14	0	980.08
11/24/05 8:00	59.2	3	3.7	0.7	7.2	0.9	51	12.3	150.8	0.54	0	981.35
11/24/05 9:00	59.3	3.6	4.3	0.6	8.5	1	50	13	294.9	1.06	0	982.41
11/24/05 10:00	50.9	4	4.7	0.7	8.9	1.1	50.5	14.2	452.6	1.63	0	983.04
11/24/05 11:00	43.8	4.2	4.9	0.8	8.6	1.3	52	15.6	551.3	1.98	0	983.1
11/24/05 12:00	41.7	3.9	4.7	0.7	8.5	1.1	54.3	16.4	598.3	2.15	0	983.07
11/24/05 13:00	42.1	3.6	4.2	0.6	8	1	47	15.6	312.8	1.13	0	982.82
11/24/05 14:00	44.4	3.3	4	0.7	8.7	1.2	48.8	14.7	268.1	0.97	0	982.77
11/24/05 15:00	46.5	3.8	4.5	0.7	8.7	1.1	41.8	13.7	173.2	0.62	0	983.28
11/24/05 16:00	51	3	3.7	0.7	7.3	1	41.6	13.9	51.7	0.19	0	983.6
11/24/05 17:00	54.4	3.3	4	0.7	9.4	1	38.1	12.8	1.2	0.01	0	984.05
11/24/05 18:00	55.8	3.2	3.8	0.6	6.7	1	41.6	13.4	-1	0	0	984.68
11/24/05 19:00	52.2	3.3	4	0.7	8.2	1	40.4	13.2	-1	0	0	985.33
11/24/05 20:00	51.6	3.1	3.7	0.7	6.6	0.9	45.1	12.9	-1	0	0	985.83
11/24/05 21:00	46.8	2.7	3.3	0.6	6.4	0.8	50.8	12.8	-1	0	0	986.48
11/24/05 22:00	45.1	1.9	2.5	0.6	4.5	0.6	46.5	12.8	-1	0	0	987
11/24/05 23:00	40.2	2.4	3	0.6	5.6	0.7	44.5	12.6	-1	0	0	987.07
11/25/05 0:00	41.7	2.4	3	0.6	5.5	0.6	42.6	11.6	-1	0	0	986.92
11/25/05 1:00	43.3	2.8	3.4	0.6	6.1	0.7	42.3	11.4	-1	0	0	986.49
11/25/05 2:00	44.1	2.6	3.2	0.6	5.5	0.7	47.4	11.7	-1	0	0	986.38
11/25/05 3:00	47.5	1.7	2.3	0.6	4.5	0.4	55.1	9.4	-1	0	0	986.72
11/25/05 4:00	49.4	2.5	3.1	0.6	5.6	0.5	49.9	9.7	-1	0	0	986.29
11/25/05 5:00	52.3	2.6	3.2	0.6	5	0.6	53.3	9.9	-1	0	0	985.87
11/25/05 6:00	54.5	2.8	3.5	0.7	5.9	0.6	54.8	9.9	-0.7	0	0	985.94
11/25/05 7:00	57.1	2.6	3.2	0.6	5.1	0.5	52.3	8.6	17.7	0.06	0	986.18
11/25/05 8:00	53.9	2.1	2.6	0.5	4.1	0.5	60.7	10.6	176.6	0.84	0	986.14
11/25/05 9:00	40.8	1.6	1.9	0.3	4	0.5	104.6	18.7	344.3	1.24	0	986.14
11/25/05 10:00	35.1	2.6	3	0.4	5.3	0.6	156.9	15.2	463.3	1.67	0	985.88
11/25/05 11:00	33.5	2.6	2.9	0.4	5.6	0.7	159.8	14.9	529.8	1.91	0	985.05
11/25/05 12:00	30.5	2.6	3	0.4	6.4	0.8	144.8	16.3	539.9	1.94	0	983.59
11/25/05 13:00	29.9	3.4	4	0.6	8.3	0.9	155.4	14.8	488.6	1.76	0	982.09
11/25/05 14:00	29.7	4.2	5	0.8	8.3	1	182.3	13.3	376.7	1.36	0	981.34
11/25/05 15:00	32.3	3.5	4.2	0.7	7.3	0.9	179	10.5	107.8	0.39	0	981.07
11/25/05 16:00	34.8	2.6	3.2	0.6	5.7	0.7	173.8	10.6	12.9	0.05	0	980.77
11/25/05 17:00	36.5	2.7	3.3	0.6	7.1	0.7	178.4	10.2	-0.1	0	0	980.67
11/25/05 18:00	34.8	2.5	3.1	0.6	5.5	0.6	158	10.3	-1	0	0	980.8
11/25/05 19:00	34.6	2.3	3.1	0.7	5	0.6	155	10.1	-1	0	0	980.82
11/25/05 20:00	38.5	2.7	3.5	0.8	6.9	0.7	169.3	9.4	-1	0	0	980.8
11/25/05 21:00	39.9	3.2	4	0.8	6.3	0.6	176.8	8.9	-1	0	0	980.83
11/25/05 22:00	44.3	2	2.8	0.8	4.9	0.4	153.8	7.3	-1	0	0	980.83
11/26/05 0:00	48.4	1.7	2.5	0.8	4.7	0.4	168.3	8.6	-1	0	0	980.54
11/26/05 1:00	50.8	1.5	2.3	0.7	4.1	0.4	166	10.5	-1	0	0	980.17
11/26/05 2:00	50.3	2	2.6	0.7	4.9	0.5	169.1	10.4	-1	0	0	979.46
11/26/05 3:00	50.3	2.4	3.1	0.7	5.3	0.6	168.8	11	-1	0	0	978.87
11/26/05 4:00	50.8	2	2.6	0.6	6	0.6	170.1	12.2	-1	0	0	978.14
11/26/05 5:00	50.5	3.4	4	0.7	7.3	0.7	152.6	9.9	-1	0	0	977.61
11/26/05 6:00	53.6	1.8	2.5	0.6	5.6	0.5	158.3	10.5	-1	0	0	977.14
11/26/05 7:00	57.6	1.6	2.3	0.7	3.9	0.4	145.8	10.4	-0.8	0	0	977.12
11/26/05 8:00	62.8	1.7	2.5	0.8	5.4	0.5	159.8	11.5	11.1	0.04	0	977.32
11/26/05 9:00	68.6	3.4	4.1	0.7	7	0.7	182.5	10	81.8	0.29	0	977.18
11/26/05 10:00	69.6	4.7	5.7	1	9.2	1.1	152.8	10.6	116.3	0.42	0	977
11/26/05 11:00	67.9	4.9	5.9	1	9.2	1	153.6	10.6	285.8	1.03	0	976.82
11/26/05 12:00	62.4	5.1	6.2	1.1	10.6	1	158	11.2	513.1	1.65	0	975.71
11/26/05 13:00	59.1	5.3	6.3	1	10.7	1.3	148.7	11.6	458.9	1.85	0	974.32
11/26/05 14:00	62.8	6	7.1	1.1	13.5	1.3	179.3	12	273.3	0.98	0	972.99
11/26/05 15:00	66.3	6.4	7.6	1.3	14.3	1.5	156.8	10.9	112.7	0.41	0	972.3
11/26/05 16:00	65.3	5.6	6.9	1.3	12.8	1.3	164.7	10.7	161.4	0.58	0	971.95
11/26/05 17:00	65.8	4.8	5.8	1.1	10.7	1.3	169.3	12.1	87.2	0.31	0	971.67
11/26/05 18:00	78.9	4.2	5.1	0.9	9.8	1.1	169.3	11.5	-2.1	0.01	0	971.46
11/26/05 19:00	86.1	4.2	5.2	0.9	9.8	1.1	160.3	11.2	-1	0	0	971.47
11/26/05 20:00	88.7	3.5	4.3	0.8	7.9	0.9	163.5	11.3	-1	0	0	971.31
11/26/05 21:00	89.5	4	4.8	0.8	8.9	1	161.6	12.3	-1	0	0	971.05
11/26/05 22:00	90.9	3.3	4.1	0.8	8	0.9	147.3	11.2	-1	0	0	970.68
11/26/05 23:00	89	3.8	4.7	0.8	8.4	1	151.3	11.2	-1	0	0	970.02
11/27/05 0:00	89.8	4.2	5.1	0.9	9.1	1.1	162.5	11.9	-1	0	0	969.2
11/27/05 1:00	89.3	4.9	6	1.1	10.1	1.2	162	11.6	-1	0	0	967.65
11/27/05 2:00	90.6	5	6.1	1.1	10	1.2	170.7	10.1	-1	0	0	966.47
11/27/05 3:00	89.5	4.4	5.3	0.9	9.8	1.1	169.8	10.6	-1	0	0	965.83
11/27/05 4:00	91.2	4	4.8	0.8	8.2	0.9	146.3	10.7	-1	0	0	964.31
11/27/05 5:00	91.6	4.3	5.1	0.9	9	1	158.1	11	-1	0	0	963.66
11/27/05 6:00	90.6	3.5	4.3	0.8	8.4	0.9	164	11.6	-1	0	0	962.92
11/27/05 7:00	86.8	4.3	5.2	0.9	9.9	1.1	168.2	11.8	-0.8	0	0	962.24
11/27/05 8:00	85.1	4.3	5.2	0.9	9.8	1.1	160.7	11.9	8.3	0.03	0	961.54
11/27/05 9:00	81.9	4.6	5.6	1	11.2	1.4	160.3	13.2	36.3	0.13	0	960.82
11/27/05 10:00	78.5	5.5	6.6	1.1	11.4	1.4	171.9	12.9	45.8	0.16	0	960.93
11/27/05 11:00	74.4	5.9	7.1	1.2	11.7	1.6	171.8	12	76.3	0.27	0	960.26
11/27/05 12:00	68.4	6.3	7.4	1.1	13.4	1.6	173.1	12.2	205.1	0.74	0	958.83
11/27/05 13:00	60.5	6.8	8.2	1.4	15.6	1.8	176.8	12.4	368.7	1.33	0	957.26
11/27/05 14:00	57.7	8	9.6	1.6	19.2	1.9	152	12	164.2	0.59	0.01	955.7
11/27/05 15:00	46.2	7.2	9	1.8	16.3	1.9	167.5	10.9	119.5	0.43	0.01	954.84
11/27/05 16:00	23.8	8.8	11	2.2	22.5	2.3	169.8	11.1	149.3	0.54	0	954.71
11/27/05 17:00	14.7	9.4	11.7	2.3	19.9	2.1	181.9	10.6	60.2	0.22	0	955.2
11/27/05 18:00	13.2	7.9	9.8	1.8	18	2	195.3	9.9	1.1	0	0	956.47
11/27/05 19:00	16.8	7.3	9.1	1.8	16.8	1.8	199.1	9.8	-1	0	0	956.61
11/27/05 20:00	35.1	7.4	9.1	1.7	15.5	1.8	198.6	9.3	-1	0	0	956.38
11/27/05 21:00	53.8	7.5	9.3	1.8	16.2	1.6	198.5	9.8	-1	0	0	956.94
11/27/05 22:00	57.7											

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	BOK				1127									
	O ₃ (ppm)	T _a (°C)	ΔT	WS (m/s)	WDIR	WS _{max} (m/s)	O ₃ (ppm)	NO (ppm)	NO ₂ (ppm)	NO _x (ppm)	PM _{2.5} (μg/m ³)	T _a (°C)	RH (%)	
11/28/05 9:00	0.006833	7.4	2.3	7.2	292.5	21	0.011	0.001	0.003	0.004	13.1	3.89	54	
11/28/05 10:00	0.00854	6.8	2	7.6	292.5	20.1	0.013	0.001	0.003	0.004	15.2	3.33	52	
11/28/05 11:00	0.01116	6.3	1.7	9.8	292.5	19.2	0.015	0.001	0.002	0.004	14.2	3.33	51	
11/28/05 12:00	0.01273	6	1.7	11.2	292.5	18.8	0.015	0.001	0.002	0.004	11.8	3.33	51	
11/28/05 13:00	0.01262	6.4	1.6	8.9	292.5	22.8	0.015	0.002	0.003	0.005	22.3	3.33	51	
11/28/05 14:00	0.01212	6.5	1.7	7.6	292.5	20.6	0.016	0.001	0.002	0.003	9	3.33	50	
11/28/05 15:00	0.01414	6.1	1.9	10.3	292.5	22.4	0.017	0.001	0.003	0.004	10.7	3.33	49	
11/28/05 16:00	0.01663	5.4	1.8	12.5	292.5	21.5	0.019	0.001	0.002	0.003	13.4	2.78	46	
11/28/05 17:00	0.01775	5.5	1.5	11.2	292.5	21.5	0.02	0.001	0.002	0.003	8.6	2.78	46	
11/28/05 18:00	0.0209	5.1	1.9	11.2	292.5	20.1	0.024	0	0.002	0.003	9.2	2.78	45	
11/28/05 19:00	0.02493	5	1.5	11.6	292.5	20.1	0.027	0	0.002	0.002	9	2.22	47	
11/28/05 20:00	0.02405	6.1	1.7	5.8	292.5	17.4	0.028	0	0.002	0.002	10.4	2.22	53	
11/28/05 21:00	0.02677	5.8	1.4	6.7	292.5	15.6	0.028	0	0.002	0.002	8.2	2.22	53	
11/28/05 22:00	0.02706	5.5	1.6	7.6	292.5	17.9	0.028	0	0.001	0.001	7	2.22	52	
11/28/05 23:00	0.0258	5.1	1.2	5.4	292.5	20.1	0.027	0	0.001	0.001	7	1.67	59	
11/29/05 0:00	0.02495	5.4	1.3	6.3	292.5	14.8	0.026	0	0.001	0.001	8.4	1.67	64	
11/29/05 1:00	0.02531	5.4	1	8.5	292.5	13.9	0.026	0	0.001	0.001	12.1	2.22	65	
11/29/05 2:00	0.02455	5.9	1.2	5.8	292.5	13.4	0.027	0	0.001	0.001	7.9	2.22	62	
11/29/05 3:00	0.02619	5.7	1.3	8	292.5	15.2	0.026	0	0.002	0.001	9.5	2.22	59	
11/29/05 4:00	0.02642	5.1	0.8	8.5	292.5	16.5	0.027	0	0.001	0.001	10.1	1.67	54	
11/29/05 5:00	0.0252	5.5	1.2	4.9	292.5	13.4	0.026	0	0.002	0.002	7.8	1.11	56	
11/29/05 6:00	0.02531	5.1	1.4	7.6	292.5	12.5	0.025	0	0.003	0.003	7.6	0.56	56	
11/29/05 7:00	0.02339	4.7	1.6	5.4	292.5	12.5	0.02	0.002	0.008	0.009	7.9	-0.56	59	
11/29/05 8:00	0.02478	3.7	2.2	5.8	292.5	10.7	0.023	0.001	0.004	0.006	9.6	0.56	55	
11/29/05 9:00	0.0234	3.9	3	3.1	292.5	10.3	0.027	0.001	0.002	0.003	12.7	2.22	47	
11/29/05 10:00	0.02023	10.2	8.5	3.1	292.5	10.3	0.03	0.001	0.002	0.003	7.4	3.33	39	
11/29/05 11:00	0.02659	15.2	6.6	3.6	292.5	10.3	0.029	0.001	0.002	0.003	6.5	4.44	37	
11/29/05 12:00	0.02553	18.8	6.5	3.6	292.5	9.4	0.03	0.001	0.002	0.002	9.6	5.56	33	
11/29/05 13:00	0.0264	21	3.1	4	292.5	10.3	0.032	0.001	0.002	0.003	10.8	6.11	31	
11/29/05 14:00	0.0289	18.4	4.1	5.4	292.5	10.7	0.032	0	0.002	0.002	11	6.67	29	
11/29/05 15:00	0.02853	16.8	5.5	6.3	292.5	12.5	0.031	0.001	0.003	0.005	8.6	7.22	29	
11/29/05 16:00	0.0281	14.1	2.3	5.8	292.5	11.6	0.032	0.001	0.003	0.004	6.5	6.11	30	
11/29/05 17:00	0.03129	11.2	3.1	5.4	292.5	11.2	0.029	0	0.006	0.006	7.3	5.00	34	
11/29/05 18:00	0.03048	8.1	3	2.2	292.5	8	0.021	0.001	0.014	0.015	8.7	3.33	39	
11/29/05 19:00	0.02861	8.1	1.8	0.9	270	4.5	0.014	0.016	0.019	0.035	11.6	1.67	45	
11/29/05 20:00	0.02632	9.1	1.4	1.3	90	4	0.017	0.009	0.015	0.025	10	0.56	49	
11/29/05 21:00	0.02763	8.5	1	1.3	90	4.5	0.005	0.026	0.024	0.05	12.7	-2.22	62	
11/29/05 22:00	0.0322	6.1	3.8	1.3	202.5	4	0.001	0.047	0.023	0.07	17.2	-2.78	67	
11/29/05 23:00	0.02664	5.3	2.1	0.9	202.5	4	0.003	0.04	0.023	0.063	11.8	-2.78	68	
11/30/05 0:00	0.02264	4.9	1.9	1.3	202.5	4.5	0.001	0.013	0.019	0.032	15	-4.44	76	
11/30/05 1:00	0.02597	4.5	1.7	4	22.5	6.3	0.001	0.01	0.016	0.026	10.5	-5.56	82	
11/30/05 2:00	0.02256	5.8	2.4	0.4	270	5.8	0	0.017	0.02	0.037	11.4	-6.11	85	
11/30/05 3:00	0.02003	4.7	4.6	1.8	112.5	4.5	0	0.018	0.017	0.035	13.7	-6.67	86	
11/30/05 4:00	0.02194	6.5	2.7	2.7	112.5	4.5	0	0.019	0.015	0.034	11	-7.22	88	
11/30/05 5:00	0.01718	6.7	1.9	2.2	112.5	5.4	0	0.024	0.014	0.037	15.8	-7.22	88	
11/30/05 6:00	0.02057	5.6	2.3	3.1	112.5	5.8	0	0.062	0.009	0.071	12.7	-8.33	89	
11/30/05 7:00	0.01219	6.2	1.6	4.9	112.5	8.5	0.001	0.105	0.011	0.116	10.5	-7.22	89	
11/30/05 8:00	0.01454	5	5.3	3.1	112.5	9.4	0.002	0.12	0.016	0.136	22.8	-3.33	77	
11/30/05 9:00	0.02005	4.1	4.1	3.6	112.5	9.4	0.005	0.069	0.022	0.091	23.4	0.56	63	
11/30/05 10:00	0.01475	9.4	7.9	2.2	112.5	7.2	0.019	0.011	0.015	0.026	14.3	4.44	45	
11/30/05 11:00	0.02098	11.7	4.6	3.1	180	8.9	0.026	0.006	0.01	0.016	10.2	7.22	35	
11/30/05 12:00	0.02507	15.5	5.1	3.6	180	9.8	0.027	0.004	0.01	0.014	17.1	8.89	32	
11/30/05 13:00	0.02851	12.2	7	4	202.5	10.7	0.032	0.003	0.009	0.012	17.6	11.11	26	
11/30/05 14:00	0.03653	14.7	5.6	6.3	202.5	16.5	0.04	0.002	0.007	0.009	24.8	12.78	22	
11/30/05 15:00	0.04424	14.6	3.8	7.6	202.5	17	0.036	0.002	0.008	0.01	13.3	12.78	20	
11/30/05 16:00	0.03984	13.7	2.6	7.6	202.5	16.5	0.036	0.001	0.01	0.011	18.3	12.78	21	
11/30/05 17:00	0.03989	12.4	2	8	202.5	15.6	0.028	0	0.017	0.017	18.2	11.67	25	
11/30/05 18:00	0.03019	11.1	0.6	4.9	180	11.2	0.003	0.123	0.032	0.155	27.1	8.89	32	
11/30/05 19:00	0.02992	10.6	0.6	5.8	202.5	10.3	0.012	0.006	0.03	0.036	18.3	8.89	33	
11/30/05 20:00	0.01601	10.1	0.4	8.9	202.5	11.2	0.021	0	0.02	0.019	23.3	9.44	32	
11/30/05 21:00	0.02807	9.6	0.7	8.5	202.5	12.5	0.014	0	0.025	0.025	37	8.33	34	
11/30/05 22:00	0.01856	9.2	2.3	6.7	180	10.7	0.018	0	0.02	0.02	39.3	7.78	36	
11/30/05 23:00	0.02204	10.3	2.4	6.3	292.5	17.4	0.023	0	0.006	0.005	13.3	6.67	45	

1-Hour Ozone and Meteorological Data Records, 01 June - 30 November 2005
Ozone in the Atmospheric Boundary Layer: Transport Mechanisms and Predictive Indicators at 36°N
 © 2007 David Joe Williams

Date/Time (CST)	WDIR	WS (m/s)	KTUL			RH (%)	WS (m/s)	WDIR	P _{RES} (hPa)	SKIA		ΔT
			T _A (°C)	T _w (°C)	T ₀ (°C)					T _{A,SFC} (°C)	T _{A,800} (°C)	
11/28/05 9:00	289	4.4704	3.9	0.5	-5	53	10.29	290	974.94	2.4	2.4	0
11/28/05 10:00	295	4.4704	3.3	0	-5.6	53	9.77	290	975.62	2.1	2	0
11/28/05 11:00	295	5.36448	3.3	0	-5.6	53	9.77	290	976.30	2	1.9	0
11/28/05 12:00	296	4.91744	3.9	0.2	-6.1	48	9.77	290	976.97	2.1	2.1	-0.1
11/28/05 13:00	297	5.36448	3.3	-0.1	-6.1	51	9.77	290	977.31	2.1	2.1	0
11/28/05 14:00	295	4.4704	3.3	-0.3	-6.7	48	7.20	290	978.33	2.1	2.1	0
11/28/05 15:00	292	4.4704	3.3	-0.3	-6.7	48	8.75	290	979.68	1.9	1.9	0
11/28/05 16:00	298	4.91744	2.8	-0.9	-7.8	46	10.29	290	980.70	1.6	1.6	0
11/28/05 17:00	305	4.4704	2.8	-0.7	-7.2	48	7.20	300	981.38	1.3	1.3	0.1
11/28/05 18:00	306	4.91744	2.8	-0.9	-7.8	46	10.29	300	982.05	1.3	1.4	0.1
11/28/05 19:00	314	4.91744	2.2	-1.3	-7.8	48	7.20	310	983.07	0.7	0.8	0.1
11/28/05 20:00	307	4.02336	2.2	-0.8	-6.1	55	7.72	300	983.75	0.4	0.5	0.1
11/28/05 21:00	307	4.02336	2.2	-1	-6.7	52	7.72	320	984.08	0.6	0.7	0.1
11/28/05 22:00	312	5.36448	1.7	-1.6	-7.8	50	7.72	330	984.76	0.2	0.3	0.1
11/28/05 23:00	312	3.57632	2.2	-0.4	-5	59	5.14	300	985.10	0.4	0.5	0.1
11/29/05 0:00	304	2.68224	2.2	-0.3	-4.4	62	8.23	300	985.10	1.1	1.2	0.1
11/29/05 1:00	309	3.57632	2.2	-0.3	-4.4	62	6.17	320	986.12	1	1.1	0.1
11/29/05 2:00	301	2.68224	2.2	-0.3	-4.4	62	5.66	290	986.79	1	1.1	0.2
11/29/05 3:00	305	3.57632	2.2	-0.6	-5.6	57	6.17	300	987.47	1	1.1	0.1
11/29/05 4:00	306	3.12928	1.7	-1.3	-6.7	54	4.63	320	988.49	0.3	0.5	0.3
11/29/05 5:00	302	2.2352	0.6	-2.1	-7.2	56	4.12	300	989.16	-0.9	-0.4	0.4
11/29/05 6:00	313	2.2352	0	-2.4	-7.2	59	4.63	310	989.84	-2.1	-1.4	0.6
11/29/05 7:00	309	2.2352	0	-2.4	-7.2	59	4.12	290	990.52	-2.1	-1.7	0.4
11/29/05 8:00	312	2.68224	1.7	-1.4	-7.2	52	4.63	290	991.87	-0.6	-0.8	-0.2
11/29/05 9:00	307	3.57632	3.3	-1	-9.4	39	7.20	320	992.55	1.5	1	-0.5
11/29/05 10:00	309	4.4704	4.4	-0.2	-8.9	38	6.69	320	992.89	2.8	2.2	-0.6
11/29/05 11:00	299	4.02336	5.6	0.6	-8.3	36	7.20	290	992.55	4	3.2	-0.8
11/29/05 12:00	297	3.12928	6.1	0.7	-9.4	32	5.66	270	991.87	4.7	3.9	-0.8
11/29/05 13:00	305	4.02336	7.2	1.1	-10	29	7.20	310	991.87	5.4	4.7	-0.7
11/29/05 14:00	300	4.02336	7.2	1.1	-10	29	5.14	280	991.87	5.9	5.4	-0.6
11/29/05 15:00	306	3.57632	7.2	1.1	-10	29	7.72	300	992.21	5.5	5.3	-0.2
11/29/05 16:00	312	4.02336	5.6	0.4	-9.4	33	7.20	310	992.55	4.5	4.8	0.3
11/29/05 17:00	311	2.68224	3.9	-0.6	-9.4	38	2.06	290	993.23	2.6	3.4	0.8
11/29/05 18:00	299	0.89408	2.2	-1.5	-8.9	44	3.09	300	993.23	1.4	2.2	0.8
11/29/05 19:00	297	0.89408	1.1	-2.2	-8.9	48	2.57	290	993.57	0.3	1.1	0.8
11/29/05 20:00	298	0.89408	0.6	-2.5	-8.9	49	2.06	320	994.24	-1	-0.1	0.9
11/29/05 21:00	227	0.44704	-2.2	-4.3	-8.9	61	3.60	350	994.24	-1.7	-0.9	0.8
11/29/05 22:00	121	0.44704	-2.2	-4.2	-8.3	63	2.57	360	994.58	-2.7	-1.8	1
11/29/05 23:00	82	0.44704	-2.2	-4.2	-8.3	63	0.00	0	995.26	-3.1	-2.1	1
11/30/05 0:00	191	0.44704	-2.8	-4.5	-8.3	66	0.00	0	994.92	-3.9	-2.6	1.3
11/30/05 1:00	220	0.44704	-2.8	-4.4	-7.8	69	0.00	0	994.92	-4.3	-2.8	1.5
11/30/05 2:00	191	0	-2.8	-4.4	-7.8	69	2.57	190	995.26	-5.7	-4.2	1.4
11/30/05 3:00	126	0	-3.9	-5.1	-7.8	75	1.54	120	994.92	-5.2	-3.8	1.4
11/30/05 4:00	194	0	-3.9	-5.3	-8.3	72	1.54	120	993.90	-4	-3.1	0.9
11/30/05 5:00	124	0.44704	-5	-6	-8.3	78	0.00	0	993.57	-4.2	-3.4	0.8
11/30/05 6:00	135	0	-5.6	-6.6	-8.9	78	3.60	120	992.89	-4.5	-3.8	0.7
11/30/05 7:00	106	0.44704	-5	-5.9	-7.8	81	3.09	110	992.55	-4.7	-4.2	0.5
11/30/05 8:00	125	0.89408	-0.6	-2.3	-5.6	69	2.06	110	992.89	-2.4	-2.6	-0.3
11/30/05 9:00	109	1.34112	2.2	-0.4	-5	59	4.63	140	992.55	-0.5	-1	-0.5
11/30/05 10:00	170	2.68224	6.1	1.3	-6.7	40	4.63	160	990.86	1.9	1.3	-0.5
11/30/05 11:00	167	3.12928	8.3	2.6	-6.7	34	6.17	180	989.16	5.8	4.8	-1
11/30/05 12:00	175	3.12928	9.4	3	-7.2	31	5.66	160	986.79	8	7.4	-0.7
11/30/05 13:00	176	4.02336	12.2	4.4	-7.8	24	8.23	180	984.76	9.6	8.9	-0.7
11/30/05 14:00	180	5.36448	12.8	4.4	-8.9	21	7.72	170	983.07	11.5	11	-0.5
11/30/05 15:00	181	4.91744	11.7	4.4	-6.7	27	6.17	150	982.39	11.9	11.8	-0.1
11/30/05 16:00	189	4.4704	12.2	4.3	-8.3	23	6.17	180	983.41	10.7	11.1	0.4
11/30/05 17:00	206	1.78816	11.1	3.9	-7.2	27	3.09	190	985.78	9.8	11.1	1.3
11/30/05 18:00	167	0.44704	9.4	3.2	-6.7	32	3.09	160	986.12	7.5	10	2.5
11/30/05 19:00	202	1.34112	10	3.5	-6.7	31	4.63	180	986.79	8.7	9.8	1.1
11/30/05 20:00	217	1.78816	9.4	3.2	-6.7	32	3.60	190	987.47	7.8	8.6	0.8
11/30/05 21:00	216	2.2352	8.9	2.9	-6.7	33	4.63	200	988.49	7.4	8.2	0.8
11/30/05 22:00	269	3.57632	8.3	3.1	-5	39	8.75	320	990.18	6.2	6.5	0.4
11/30/05 23:00	300	4.4704	5.6	1.7	-4.4	49	7.20	330	991.87	4.2	4.5	0.3

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Date/Time (CST)	RH (%)	WS _{2M} (m/s)	WS _{3M} (m/s)	ΔWS	WS _{mix} (m/s)	WS _{DEV}	WDIR	WDIR _{DEV}	SRAD (W/m ²)	St _{TOT} (%)	PCPN (in)	P _{ABS} (hPa)
11/28/05 9:00	58.9	5.1	6.4	1.4	12.6	1.7	243.8	13.9	32.5	0.12	0	966.58
11/28/05 10:00	58	5.4	6.9	1.5	12.9	1.8	244.4	14.4	50	0.18	0	967.86
11/28/05 11:00	58.3	5.1	6.5	1.4	13.1	1.8	246.2	14.6	55.9	0.2	0	968.42
11/28/05 12:00	56.8	5.5	6.9	1.4	12.1	1.7	245.3	14.5	53.7	0.19	0	968.96
11/28/05 13:00	56.3	5	6.3	1.3	12.3	1.6	242.9	14.1	46.7	0.17	0	969.75
11/28/05 14:00	54.9	5	6.3	1.3	13.6	1.5	244.5	14.2	48.8	0.16	0	970.56
11/28/05 15:00	53.6	5.1	6.4	1.3	13.1	1.7	248	14.6	36	0.13	0	971.69
11/28/05 16:00	53.2	5	6.1	1.1	12.2	1.8	254.9	15.5	26.7	0.1	0	972.88
11/28/05 17:00	54.9	4.4	5.5	1.1	12.6	1.5	249.8	14.5	0	0	0	973.64
11/28/05 18:00	50.7	4.9	6	1.1	13.6	1.7	257.5	15.5	-1	0	0	974.34
11/28/05 19:00	51.2	4.6	5.7	1.1	14.1	1.6	263.1	16.1	-1	0	0	975.2
11/28/05 20:00	56.7	3.6	4.5	0.9	10.9	1.2	266.6	15.5	-1	0	0	975.97
11/28/05 21:00	61.9	3.3	4.2	0.9	9	1.2	267.3	15.4	-1	0	0	976.53
11/28/05 22:00	62.9	3.8	4.8	1	11.8	1.5	272.8	14.9	-1	0	0	977.4
11/28/05 23:00	67.8	2.9	3.7	0.8	7.1	1	255.6	14.7	-1	0	0	977.57
11/29/05 0:00	64.4	4.2	5.3	1	12.7	1.6	269.1	15.7	-1	0	0	977.56
11/29/05 1:00	69.6	3.2	4	0.8	8.2	1.1	264.8	16.2	-1	0	0	978.19
11/29/05 2:00	70.8	2.8	3.6	0.8	8.5	1	254.3	15.2	-1	0	0	979.07
11/29/05 3:00	63.1	3.7	4.5	0.9	8.2	1.2	263.5	14.9	-1	0	0	979.83
11/29/05 4:00	58.9	2.9	3.7	0.8	7.9	1	262.8	14.6	-1	0	0	980.49
11/29/05 5:00	63.1	1.8	2.4	0.6	5.3	0.6	258	14	-1	0	0	981.37
11/29/05 6:00	68.2	1.4	2	0.6	4.1	0.5	252.1	13.1	-0.8	0	0	981.98
11/29/05 7:00	67.7	1.3	1.8	0.6	4.7	0.5	260.3	14.7	29.8	0.11	0	982.85
11/29/05 8:00	60.9	2.1	2.6	0.5	6.6	0.7	257.8	15.2	188.4	0.68	0	983.58
11/29/05 9:00	50.7	3.1	3.8	0.7	8.1	1.1	263.3	17.8	349.8	1.26	0	984.59
11/29/05 10:00	42.8	3.7	4.5	0.8	8.4	1.2	271	17.8	475.8	1.71	0	985.28
11/29/05 11:00	38.7	3.7	4.5	0.8	9.6	1.2	264.5	18.1	550.8	1.98	0	985.13
11/29/05 12:00	37.2	3.7	4.5	0.8	7.6	1.2	253	17.5	564.9	2.03	0	984.47
11/29/05 13:00	34.2	3.9	4.8	0.9	8.9	1.3	257	16.3	515.8	1.86	0	984.17
11/29/05 14:00	31.4	3.7	4.5	0.9	8.1	1.1	248.8	15.6	411.3	1.48	0	984.22
11/29/05 15:00	31.3	3.7	4.5	0.8	9	1.2	252.7	15.6	264.1	0.95	0	984.54
11/29/05 16:00	34.3	2.8	3.5	0.7	8.7	1	263.6	14.6	91.7	0.33	0	984.83
11/29/05 17:00	41.4	1.3	2	0.7	4.8	0.5	257.8	12.2	1.5	0.01	0	985.39
11/29/05 18:00	45.3	1.4	2.2	0.8	4.9	0.5	257.6	13	-1	0	0	985.84
11/29/05 19:00	48.6	1.1	1.9	0.8	4.2	0.5	277.8	13.2	-1	0	0	986.19
11/29/05 20:00	54.7	0.8	1.7	0.9	3.8	0.5	285.5	12.4	-1	0	0	986.46
11/29/05 21:00	60.7	1.8	2.4	0.7	4.6	0.5	126.9	9.6	-1	0	0	986.66
11/29/05 22:00	67	1.2	1.8	0.6	3.1	0.3	29.5	7.8	-1	0	0	986.98
11/29/05 23:00	70.1	1.1	1.7	0.6	2.9	0.3	22.1	6.1	-1	0	0	987.45
11/30/05 0:00	74.1	0.6	1.2	0.6	2.8	0.2	35.6	4.7	-1	0	0	987.47
11/30/05 1:00	77.9	0.3	1.4	1.1	2.6	0.1	87.6	3.4	-1	0	0	987.13
11/30/05 2:00	81.7	0.4	1.3	0.9	2.5	0.2	183.9	6.1	-1	0	0	987.47
11/30/05 3:00	83.8	0.1	1.2	1.1	2.5	0.3	171.7	6.6	-1	0	0	987.37
11/30/05 4:00	78.6	1.5	2.4	0.9	4	0.3	139.5	7.8	-1	0	0	986.74
11/30/05 5:00	78.2	1.5	2.3	0.8	4	0.3	127.9	7.7	-1	0	0	986.11
11/30/05 6:00	79.7	1.4	2.3	0.9	4.1	0.3	113.1	8.3	-0.8	0	0	985.55
11/30/05 7:00	82.8	1.7	2.5	0.8	5	0.5	126.6	15.2	29.5	0.11	0	985.15
11/30/05 8:00	76.2	2.4	3	0.5	5.1	0.6	148	11	185	0.67	0	985.27
11/30/05 9:00	68.7	3.1	3.7	0.6	6.8	0.7	129.8	10.6	294.4	1.06	0	984.62
11/30/05 10:00	62.3	3.6	4.2	0.6	7.4	0.8	132.8	11.9	284.8	1.03	0	983.25
11/30/05 11:00	44.5	3.5	4.1	0.6	7.5	0.9	152.1	14.4	534.3	1.92	0	981.91
11/30/05 12:00	32.7	4.7	5.6	0.9	9.3	1.1	160.7	12.1	360.3	1.3	0	979.74
11/30/05 13:00	29.8	5.2	6.1	0.9	10.4	1.3	150.8	11.6	448.9	1.62	0	977.41
11/30/05 14:00	25.4	5.5	6.5	1	13.6	1.6	157.1	13.2	368.8	1.33	0	975.55
11/30/05 15:00	23.3	5	6	0.9	10.3	1.3	165	12.7	197.8	0.71	0	974.66
11/30/05 16:00	26.5	2.9	3.7	0.8	9.8	0.8	157.6	13.1	57.9	0.21	0	975.47
11/30/05 17:00	27.5	1.2	2.1	0.9	4.4	0.4	204.8	9.2	1.5	0.01	0	977.69
11/30/05 18:00	34.8	1	2.1	1.1	4.3	0.3	140.6	6.6	-1	0	0	978.46
11/30/05 19:00	32.7	2.3	3.2	0.9	6	0.5	169.4	8.7	-1	0	0	979.02
11/30/05 20:00	35.3	2.7	3.7	1	5.5	0.5	156.4	7.2	-1	0	0	979.79
11/30/05 21:00	37.7	2.5	3.7	1.1	5.9	0.5	186.9	7.5	-1	0	0	980.5
11/30/05 22:00	44.3	4.4	5.6	1.2	12.5	1.5	266.3	14.4	-1	0	0	982.2
11/30/05 23:00	53.8	4	5.2	1.2	10.2	1.5	285.1	14.9	-1	0	0	983.66