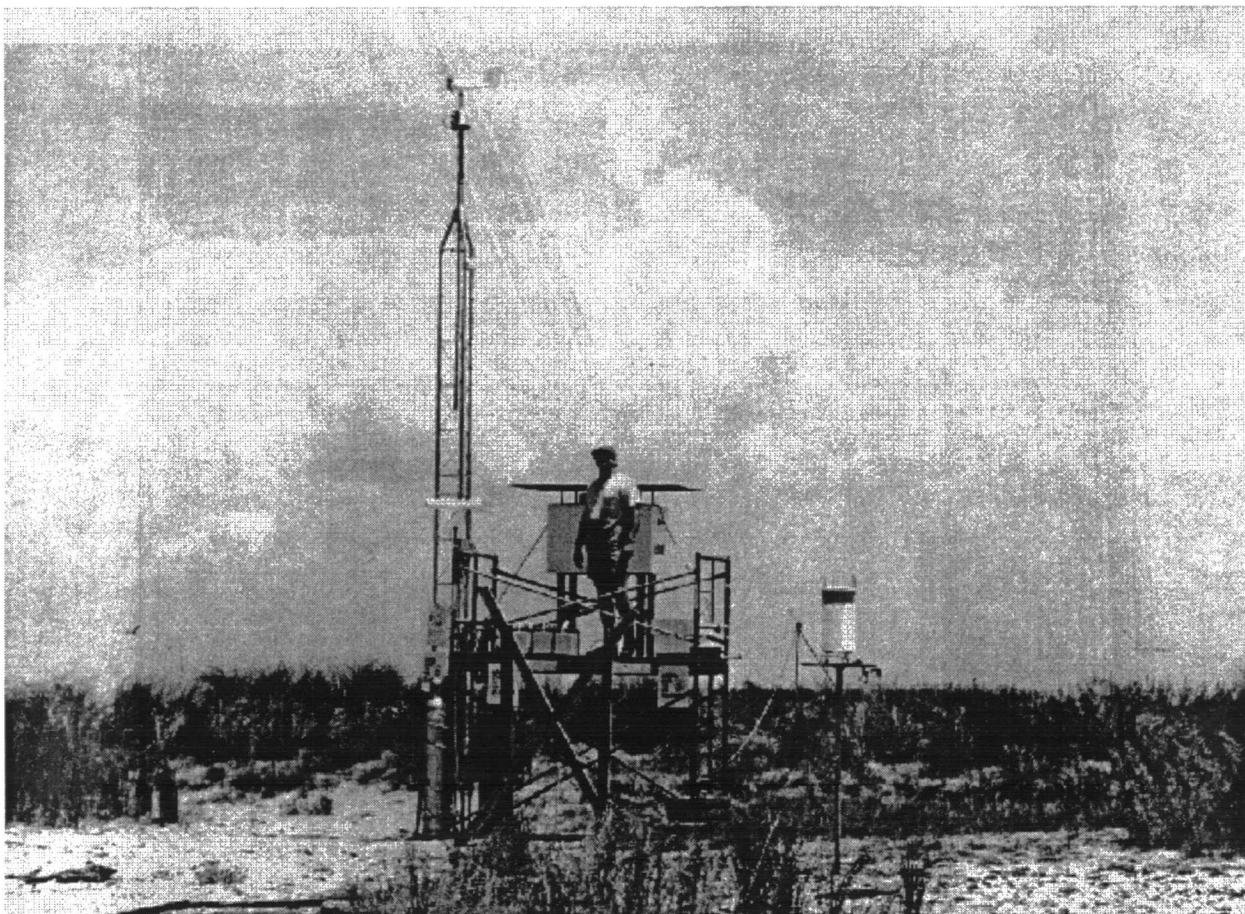




Coastal Marine Institute

# Analysis of Ambient Pollutant Concentrations and Meteorological Conditions Affecting EPA Class I and II Areas in Southeastern Louisiana

## Volume II: Appendices



**Coastal Marine Institute**

# **Analysis of Ambient Pollutant Concentrations and Meteorological Conditions Affecting EPA Class I and II Areas in Southeastern Louisiana**

**Volume II: Appendices**

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## **FRONT COVER**

Coastal Studies Institute technician Bill Gibson inspecting the Gosier Island, Louisiana, SO<sub>2</sub> and meteorological monitoring station, August, 1994.

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**APPENDIX A**  
**GOSIER ISLAND HOURLY DATA**

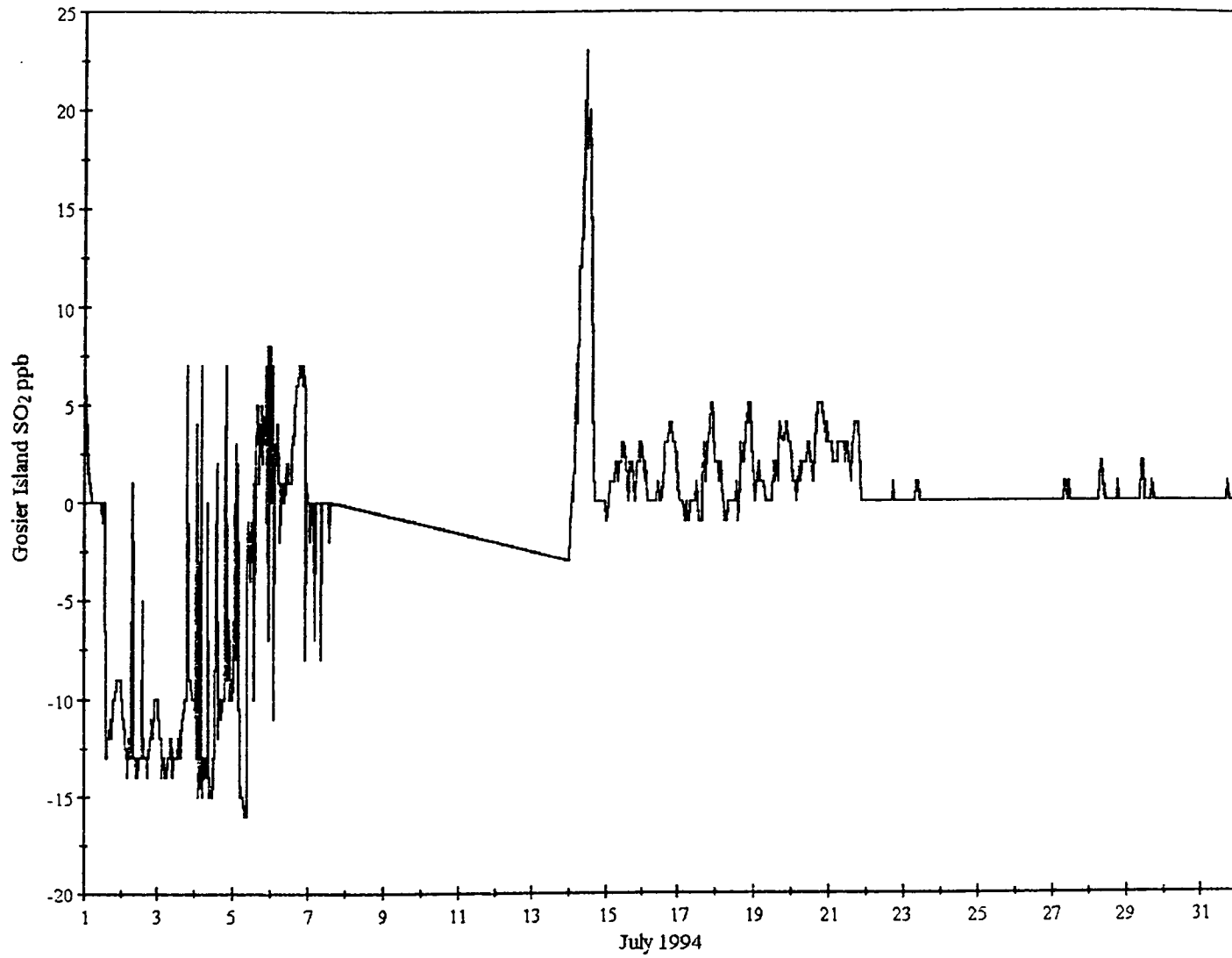


Figure A-1. July 1994 time series of uncorrected raw SO<sub>2</sub> data at Gosier Island. Data that is missing or of poor quality (as described in text) is identified in Table A-1.

**Table A-1.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	5	3	5	4	3	0
6	4	7	0	3	4	2	0	1	0	1	2	2	1	1	3	5	6	6	7	7	7	7	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
8	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
9	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
10	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
11	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
12	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	0	0	1	0	3	6	12	12	12	18	22	18	20	17	12	4	0	0	0	0	0	0	0	0
15	0	0	1	1	1	1	2	2	1	2	3	3	2	1	0	2	2	1	0	0	2	3	2	3
16	2	1	2	0	0	0	0	0	0	0	1	1	0	0	1	3	3	3	4	4	4	3	3	2
17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	1	3	3	5	5	4	2	
18	2	2	1	2	0	0	0	0	0	0	0	0	0	1	0	2	2	2	4	4	5	5	3	2
19	0	1	1	2	1	1	1	0	0	0	0	0	2	1	2	2	4	3	3	3	4	3	3	3
20	1	1	1	0	1	2	2	2	2	2	3	2	2	1	1	4	5	5	5	5	4	3	4	3
21	3	3	2	2	2	3	3	3	3	3	3	3	2	2	1	3	4	4	4	Cal	Cal	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

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Cal - Calibration                      QD - Questionable Data  
 Maximum Concentration SO<sub>2</sub> 22 ppb on 14 July @ 100UTC

Miss - Monitor Offline

**Table A-2.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Air Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	27.7	27.1	26.8	26.7	26.6	26.5	26.1	25.8	25.7	25.6	25.3	25.4	26.1	26.7	27.7	27.8	28.1	28.4	28.7	29.1	29.4	29.3	29.1	28.6
2	27.6	26.9	27.2	27.1	27.0	26.7	26.8	27.0	26.9	26.9	26.9	26.9	26.9	26.9	27.1	27.1	27.3	27.4	27.4	27.7	27.8	27.8	27.6	27.3
3	27.0	26.6	26.9	26.9	27.0	27.0	27.0	27.0	26.9	26.9	26.5	26.6	26.6	26.8	26.8	27.0	27.4	27.6	28.1	29.4	29.4	29.4	29.7	29.4
4	28.7	28.2	28.2	28.0	27.9	27.7	27.8	27.7	27.5	27.5	27.4	27.3	27.3	28.1	28.6	29.4	29.0	29.7	30.5	31.2	31.2	30.7	30.5	30.2
5	29.6	29.1	28.8	28.6	28.2	28.0	27.7	27.5	27.5	27.4	27.3	27.4	28.0	28.8	29.2	29.5	29.9	29.3	29.2	29.4	30.1	30.3	30.8	30.3
6	29.6	29.2	28.7	28.6	28.4	28.1	27.9	27.6	27.5	27.5	27.4	27.4	27.7	27.9	28.7	29.5	29.5	30.1	30.3	30.7	31.0	30.1	30.0	29.7
7	29.1	28.8	28.7	28.7	28.5	28.5	28.3	28.1	27.7	27.7	27.8	27.8	28.1	28.3	27.7	28.6	27.0	28.4	28.2	28.2	25.8	24.0	23.5	23.9
8	24.9	25.7	25.5	25.6	26.0	26.5	26.6	26.6	26.6	26.8	26.8	26.3	25.1	25.3	24.8	25.2	25.3	26.1	25.5	25.7	26.4	26.5	26.5	26.3
9	25.9	25.8	25.8	26.0	26.0	26.2	26.3	26.5	26.7	26.8	26.8	26.8	27.5	24.8	23.8	25.4	26.3	27.4	28.8	24.9	27.1	28.0	26.8	24.8
10	24.2	24.5	24.9	25.6	25.9	26.2	26.0	26.4	26.4	26.3	26.4	26.6	27.6	28.0	27.8	28.6	29.2	29.5	24.4	24.1	24.0	25.9	25.8	24.7
11	25.1	24.2	24.2	24.6	25.0	25.3	25.4	25.7	25.9	26.2	26.5	26.5	26.8	27.3	28.0	25.6	24.5	25.4	27.3	28.4	28.1	27.9	27.4	26.6
12	26.9	27.1	26.9	26.5	25.9	25.9	26.3	26.8	27.0	26.8	26.4	26.9	27.2	28.1	28.1	28.1	29.3	24.9	25.2	25.6	26.5	27.8	27.5	27.3
13	27.1	26.9	26.9	26.9	27.0	27.1	27.2	27.2	27.3	25.9	23.4	23.8	24.1	24.9	26.0	26.6	26.2	27.1	26.5	26.5	26.5	26.9	27.2	27.0
14	26.9	26.5	26.3	26.2	26.2	26.4	26.5	26.6	26.6	26.5	26.7	26.8	26.9	27.4	27.8	28.7	29.3	29.4	29.5	28.9	29.1	29.0	28.5	28.2
15	28.0	27.8	27.6	27.6	27.4	27.3	27.1	26.9	26.8	26.8	26.8	27.5	28.3	28.9	29.5	29.2	29.2	29.4	29.8	29.9	30.1	30.0	30.0	29.4
16	28.6	28.1	27.9	27.8	27.7	27.7	27.6	27.5	27.3	27.3	27.1	27.0	27.7	28.4	29.0	29.7	30.3	30.3	30.4	30.1	30.2	30.4	30.5	30.0
17	29.3	28.9	28.6	28.4	28.2	28.2	28.2	28.3	27.9	27.9	27.6	27.7	28.3	28.1	28.6	27.9	28.3	29.0	29.4	30.0	30.4	29.6	27.9	28.6
18	28.6	28.1	27.6	27.1	27.4	27.5	27.6	27.9	28.1	28.2	28.2	28.2	27.8	27.9	28.1	28.5	28.8	29.4	29.7	30.6	30.4	29.3	29.5	27.0
19	27.1	27.4	27.0	27.0	27.0	27.1	27.4	27.7	27.7	27.7	27.7	27.7	26.1	26.6	27.6	28.7	29.3	28.7	28.2	29.1	29.1	28.8	28.8	28.5
20	28.2	27.9	27.9	27.7	27.5	27.2	27.3	27.4	27.2	27.1	27.1	27.3	27.6	28.4	28.9	29.1	29.6	30.2	30.3	30.7	30.3	29.5	29.8	29.5
21	28.9	28.6	28.4	28.2	28.0	27.9	27.7	27.7	27.7	27.8	27.7	27.7	28.1	28.5	29.3	29.7	30.0	30.2	31.1	Cal	25.9	26.4	27.0	27.6
22	27.5	26.9	27.1	27.7	27.9	28.0	27.9	27.8	27.8	28.0	28.1	27.1	26.6	28.2	25.6	27.4	25.8	25.7	25.9	26.5	27.3	27.2	26.3	26.7
23	26.7	26.5	26.9	26.9	26.8	26.9	27.1	27.1	27.2	27.5	27.6	27.7	27.9	28.0	25.4	26.3	27.2	26.8	25.4	26.9	27.8	28.0	27.8	27.7
24	27.1	27.1	27.1	27.7	27.7	27.1	26.6	26.6	26.9	27.3	27.3	27.1	27.4	28.8	28.8	28.8	29.0	29.8	29.7	29.9	30.7	31.0	30.7	30.3
25	29.3	28.8	28.4	28.3	28.3	28.0	27.9	27.8	27.7	27.7	27.6	27.5	28.2	28.1	28.5	28.3	28.7	29.2	29.1	30.2	31.0	30.3	29.1	29.3
26	29.0	28.8	28.2	28.0	28.1	28.2	28.0	28.3	28.3	28.2	28.1	28.1	28.0	28.8	29.2	29.4	28.1	29.4	30.0	30.3	30.2	30.4	29.2	28.8
27	28.8	27.8	28.1	27.6	27.9	27.3	27.8	26.8	27.1	26.3	26.2	27.2	26.2	27.3	27.9	29.2	26.3	25.9	25.6	26.4	26.8	26.7	26.7	26.2
28	26.1	25.9	26.1	26.2	26.3	26.2	26.2	25.9	25.9	25.7	25.6	25.5	25.3	25.2	25.1	25.2	25.3	25.6	25.8	26.1	26.4	27.9	27.8	27.2
29	26.0	25.9	26.6	26.7	25.8	26.2	27.2	27.2	27.2	26.9	26.8	26.6	26.8	26.9	27.1	27.2	27.2	27.4	27.7	28.4	28.5	28.6	28.4	28.0
30	27.1	26.4	26.3	26.2	26.0	25.7	25.5	25.4	25.3	25.0	24.4	24.2	26.2	27.3	27.4	27.5	28.0	28.1	28.4	28.6	29.2	28.9	28.4	28.3
31	27.0	26.5	26.6	26.6	26.7	26.7	26.5	26.8	26.9	26.4	25.5	25.2	25.8	26.1	26.1	24.5	23.5	23.0	23.5	24.7	24.7	24.9	25.0	25.1

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**Table A-3.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Wind Directions**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	140	154	147	159	180	188	202	203	209	216	303	6	90	75	103	91	84	88	92	101	110	111	118	122	
2	109	101	77	80	90	116	103	68	62	60	51	35	39	33	42	58	66	79	75	72	80	87	90	78	
3	72	57	51	61	57	59	54	36	23	8	9	3	2	9	340	326	61	61	50	3	225	225	202	192	
4	180	172	180	200	205	207	212	215	215	211	210	218	341	3	3	3	3	334	273	171	168	172	167	199	
5	215	201	206	192	193	201	202	199	201	198	193	189	188	185	184	190	194	260	272	270	266	246	205	25	
6	356	355	354	39	85	85	86	86	86	86	86	76	198	214	249	255	331	349	349	349	349	275	351	349	
7	350	349	349	351	350	350	349	347	348	349	348	350	351	324	254	267	Cal	Cal	191	169	180	181	193	222	
8	256	281	228	171	161	173	170	160	153	154	160	173	150	92	88	101	125	126	133	120	122	111	126	122	
9	125	126	116	98	115	122	126	125	129	137	135	119	102	163	104	65	103	157	135	198	184	203	227	142	
10	95	109	107	93	98	96	121	137	140	149	160	144	130	145	127	133	147	151	277	221	223	298	288	312	
11	324	84	101	89	99	104	124	139	138	136	134	123	112	90	100	198	215	188	163	143	197	148	138	138	
12	161	164	159	234	231	165	142	156	175	182	192	168	135	149	162	198	96	126	114	120	106	105	135	44	
13	45	165	163	155	157	162	170	168	169	236	195	204	199	204	154	164	81	124	162	315	113	136	211	211	
14	222	222	192	169	172	178	182	182	192	192	188	180	174	161	151	163	169	170	167	167	165	164	162	149	
15	153	148	146	161	157	156	155	160	169	174	171	179	175	180	180	173	155	149	139	153	157	168	168	173	
16	209	224	204	206	203	195	193	191	190	186	203	202	207	216	220	204	191	300	146	144	151	156	178	182	
17	189	208	221	229	235	249	265	283	248	267	249	250	252	248	267	288	308	309	303	299	299	332	358	20	
18	40	81	145	171	204	220	226	242	253	263	286	302	323	327	340	354	2	5	22	181	202	221	283	357	
19	10	37	195	142	176	218	205	206	214	225	232	239	322	277	316	360	236	235	251	231	201	226	252	263	
20	269	257	245	229	222	196	194	202	220	227	232	243	260	278	297	316	301	76	124	168	192	232	226	243	
21	227	231	216	213	221	212	225	225	232	242	230	233	234	240	246	261	278	249	189	Cal	300	309	343	301	
22	247	211	187	191	198	207	217	225	237	254	264	263	278	311	281	214	302	315	291	272	269	285	339	306	
23	276	257	261	240	234	236	245	248	248	259	272	276	282	304	356	346	349	358	188	196	227	245	258	243	
24	247	250	248	289	294	242	228	233	262	288	307	358	5	313	263	266	262	220	261	263	207	181	184	185	
25	219	234	236	243	237	224	231	224	218	220	245	249	267	264	272	283	281	284	245	240	231	250	237	222	
26	227	227	237	222	253	246	234	250	258	254	251	253	243	258	273	279	298	269	253	247	246	244	260	255	
27	237	237	230	231	210	219	219	216	220	245	234	242	229	236	240	270	316	281	267	250	240	252	262	258	
28	253	262	285	285	307	314	313	354	5	10	21	26	30	27	21	35	30	24	16	13	13	38	230	235	
29	220	257	317	298	234	241	331	345	360	354	355	0	12	13	7	16	29	24	35	81	88	96	97	102	
30	122	142	135	150	170	171	169	196	192	192	192	192	192	192	342	347	4	32	68	82	90	119	124	138	164
31	153	141	162	164	175	186	205	267	288	167	148	117	78	94	95	161	168	193	324	97	237	236	241	237	

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**Table A-4.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.6	2.4	2.2	2.8	2.4	2.6	1.2	1.6	1.2	0.5	0.5	0.3	1.1	2.0	2.7	3.2	3.9	4.2	3.6	3.5	3.7	3.5	3.0	2.7
2	2.2	2.3	3.0	3.9	4.0	3.5	2.9	3.1	3.1	3.4	3.7	4.3	5.0	5.2	5.4	5.9	6.4	7.3	6.7	6.2	6.9	5.8	4.2	3.3
3	4.2	4.6	5.6	6.3	6.6	6.7	5.6	4.8	5.7	5.8	6.5	4.8	2.0	3.2	2.6	1.6	2.1	2.8	1.8	1.1	1.2	1.0	1.6	1.8
4	1.6	2.0	2.2	3.0	3.1	3.0	3.1	2.9	2.5	2.6	2.3	2.0	2.6	2.6	2.3	1.8	1.7	0.9	0.4	1.2	1.7	2.7	2.5	2.6
5	3.1	3.0	3.0	3.1	3.2	3.3	3.0	2.8	2.9	2.4	1.9	2.4	2.1	2.0	2.3	2.6	2.4	2.2	Miss	Miss	Miss	Miss	Miss	Miss
6	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
7	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
8	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
9	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
10	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
11	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
12	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	6.1	4.5	4.6	5.8	6.5	6.5	6.3	6.2	5.5	3.5	3.2	3.1	3.3	2.5	2.6	3.9	4.5	4.7	3.8	4.1	3.2	2.9	3.0	4.1
15	3.9	3.0	2.9	3.7	4.0	4.4	4.6	5.4	5.2	4.8	4.4	3.4	2.6	1.8	2.7	2.6	3.1	3.7	2.3	4.4	3.9	4.3	3.9	3.0
16	2.3	1.8	2.6	3.5	3.2	3.4	3.4	3.8	3.5	3.3	3.2	3.0	2.4	2.1	1.7	1.2	0.8	0.3	1.6	2.4	3.2	3.5	3.6	4.1
17	4.7	4.5	3.7	3.8	3.7	3.6	3.9	4.4	4.0	4.3	3.9	3.5	3.3	3.2	3.3	4.1	3.9	2.9	2.4	1.6	1.1	2.6	6.2	2.6
18	0.4	0.5	0.5	0.6	1.9	2.5	3.2	4.8	5.6	5.5	6.0	5.6	6.3	5.4	5.3	4.6	2.6	2.0	0.8	1.2	2.4	1.8	0.4	9.4
19	5.0	1.9	0.1	1.0	1.4	1.9	2.0	2.9	3.3	3.1	2.5	1.3	7.4	4.2	2.7	1.1	2.1	4.8	3.4	2.9	3.1	2.8	2.8	2.5
20	2.4	3.0	2.9	2.0	1.7	2.0	2.4	2.9	3.2	3.1	3.2	3.1	2.9	3.1	1.8	1.6	0.7	0.3	2.2	2.8	3.3	2.9	3.4	3.1
21	2.7	2.8	2.9	3.0	2.9	3.3	3.0	3.0	3.6	3.9	4.1	3.4	3.5	2.4	2.9	2.4	1.9	1.9	2.6	Cal	9.3	3.7	3.2	2.1
22	0.9	1.7	2.5	3.2	3.6	4.3	4.4	4.7	4.7	5.0	4.4	5.7	1.9	4.5	2.3	4.2	7.8	7.4	6.9	5.5	5.4	7.7	6.0	6.3
23	4.4	4.4	4.2	3.6	4.8	4.9	5.1	4.8	4.8	5.2	5.5	5.3	6.2	6.9	9.4	4.5	1.8	1.5	1.2	2.5	2.7	4.5	4.7	5.0
24	3.2	2.7	2.0	2.1	2.1	1.4	2.0	2.3	2.9	3.6	3.8	2.3	1.4	0.2	0.7	0.7	1.5	1.3	1.3	1.5	0.9	2.0	2.1	2.5
25	3.2	4.5	4.3	4.0	3.9	3.6	3.4	3.1	3.4	3.4	4.3	4.7	4.4	4.4	4.6	5.7	3.7	2.6	2.4	3.2	3.2	5.0	5.2	4.9
26	5.5	5.7	5.2	4.0	6.0	5.6	5.1	6.6	6.4	6.2	6.3	6.3	5.3	4.8	5.8	5.5	5.7	5.2	4.8	4.3	5.3	6.1	6.7	5.4
27	4.4	4.8	4.5	5.7	6.3	6.2	6.4	5.7	4.3	7.4	4.5	8.6	7.5	8.8	7.7	9.7	9.6	8.9	7.6	6.5	7.4	7.9	7.4	7.0
28	7.0	6.5	5.7	5.2	5.0	4.5	6.0	7.8	8.3	8.2	8.2	8.5	7.1	6.6	6.1	5.0	5.1	4.5	4.1	3.8	2.4	0.4	1.4	0.8
29	1.5	1.5	3.4	2.4	2.5	2.4	3.3	3.3	3.3	3.9	3.8	3.2	2.7	2.6	3.2	3.8	2.9	2.3	2.3	2.5	2.3	2.3	2.0	2.5
30	2.0	2.1	2.1	2.0	2.3	2.0	1.8	1.2	0.5	0.0	0.0	0.0	0.0	0.3	0.9	1.2	0.7	2.0	2.6	2.3	2.6	2.7	3.3	2.4
31	1.7	2.3	3.0	2.8	2.7	2.1	1.3	1.2	1.0	1.1	3.8	3.1	3.1	2.5	2.1	4.2	5.0	2.7	2.2	0.8	1.9	2.7	4.1	3.3

Maximum Speed 9.7 m s<sup>-1</sup> from 270° on 27 July @ 1500UTC

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**Table A-5.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Pond Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	32.8	32.4	32.0	31.6	31.3	30.9	30.5	30.1	29.8	29.5	29.2	28.9	28.7	28.6	28.6	28.9	29.4	30.2	31.1	31.9	32.7	33.3	33.5	33.3
2	33.0	32.5	31.9	31.4	30.9	30.3	29.8	29.4	29.2	28.9	28.6	28.4	28.2	28.1	28.2	28.4	28.9	29.8	30.9	31.7	32.4	32.9	32.9	32.7
3	32.4	31.9	31.3	30.6	29.9	29.3	28.7	28.3	28.0	27.7	27.5	27.4	27.1	27.0	27.2	27.3	27.7	28.3	28.7	29.1	29.4	29.5	29.5	29.5
4	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.3	29.1	29.0	28.8	28.7	28.6	28.6	28.5	28.6	28.7	29.1	29.3	29.7	29.8	29.8	30.1	30.6
5	30.8	31.2	31.2	31.0	30.6	30.2	29.8	29.5	29.2	28.8	28.6	28.7	28.6	28.4	28.4	28.6	29.0	29.3	29.7	30.5	31.6	31.9	32.0	32.8
6	33.3	32.9	32.6	32.0	31.4	31.0	30.5	30.0	29.7	29.4	29.1	28.6	28.4	28.3	28.3	28.4	28.7	29.1	29.5	30.0	30.9	32.4	32.9	33.0
7	32.8	32.3	31.6	31.0	30.5	30.1	29.7	29.3	29.0	28.8	28.5	28.3	28.1	28.0	28.1	28.3	28.7	Cal	29.6	30.3	30.5	30.2	29.4	28.5
8	28.6	28.5	28.4	28.2	28.0	27.3	26.9	26.7	26.6	26.4	26.3	26.2	26.1	26.0	25.9	25.8	26.0	26.4	27.0	27.6	27.7	27.9	28.1	28.1
9	28.3	28.3	28.2	28.0	27.6	27.3	27.0	26.9	26.7	26.6	26.4	26.3	26.3	26.3	26.3	26.3	26.3	26.5	26.9	28.8	28.7	28.7	29.0	29.3
10	29.4	29.3	29.1	28.9	28.7	28.4	28.1	27.9	27.6	27.3	27.1	27.0	26.8	26.9	27.2	27.6	28.4	29.8	30.9	30.1	29.6	29.2	29.2	29.1
11	28.9	28.7	28.6	28.4	28.0	27.6	27.4	27.2	26.9	26.8	26.7	26.6	26.6	26.6	26.7	27.0	27.2	27.0	27.2	27.6	28.0	28.4	29.0	29.7
12	29.6	29.4	29.0	28.6	28.4	28.1	27.9	27.6	27.4	27.3	27.1	27.0	26.9	27.0	27.3	27.6	27.8	28.6	28.8	29.1	29.1	29.2	29.9	30.1
13	29.9	29.6	29.4	29.1	28.8	28.5	28.3	28.1	27.9	27.7	27.6	27.1	26.8	26.8	26.8	26.8	27.1	27.3	27.7	28.3	28.5	28.8	Cal	29.2
14	28.9	28.7	28.4	28.2	28.0	27.7	27.4	27.3	27.2	27.1	27.0	27.0	26.9	27.0	27.1	27.6	28.5	29.3	30.1	30.7	30.8	30.9	31.2	31.2
15	31.2	31.0	30.9	30.8	30.6	30.4	30.1	29.9	29.6	29.4	29.3	29.1	29.0	29.1	29.4	29.9	30.7	31.3	31.8	32.7	33.2	34.7	35.5	35.7
16	35.5	35.2	34.9	34.5	34.2	33.6	33.0	32.7	32.4	32.1	31.5	31.3	31.1	31.0	31.1	31.4	31.8	32.1	32.7	33.2	34.7	36.3	36.7	36.7
17	36.5	35.9	35.4	35.0	34.6	34.0	33.4	33.1	32.7	32.3	31.9	31.4	31.2	31.1	31.1	31.3	31.4	31.6	31.9	32.3	33.2	33.9	34.3	34.3
18	34.1	33.9	33.8	33.6	33.4	33.1	32.7	32.5	32.2	31.9	31.6	31.3	31.2	31.1	31.1	31.4	31.8	32.3	33.3	33.5	34.6	36.0	36.3	36.3
19	35.5	35.0	Miss	34.3	34.0	33.6	33.2	32.9	32.7	32.5	32.2	31.9	31.9	31.9	31.9	32.4	33.0	34.0	34.8	35.6	36.6	37.0	37.0	37.0
20	36.5	36.1	35.6	35.2	34.9	34.5	34.1	33.8	33.4	33.2	32.8	32.5	32.4	32.3	32.3	32.7	33.3	33.9	34.5	35.6	36.8	37.3	37.3	37.2
21	36.8	36.4	36.0	35.6	35.2	34.6	34.0	33.6	33.3	32.7	32.2	32.0	31.9	31.9	32.6	33.4	34.3	35.2	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**Table A-6.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Pond pH**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	9.0	9.0	8.9	8.8	8.6	8.6	8.5	8.5	8.4	8.4	8.4	8.3	8.3	8.3	8.5	8.7	8.8	8.8	8.7	8.7	8.7	8.6	8.7	8.7
2	8.7	8.7	8.6	8.5	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.4	8.4	8.1	7.8	7.8	7.7	7.7
3	7.8	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.0	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.2	8.3	8.2	8.4	8.7	8.7
4	8.5	8.5	8.4	8.4	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.1	8.1	8.3	8.3	8.4	8.2
5	8.2	8.1	8.0	8.0	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.7	7.9	7.9	7.9	8.0	8.1
6	8.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.9	7.8	8.0	8.1	8.4	8.4	8.5	8.4	8.4
7	8.4	8.4	8.4	8.4	8.5	8.5	8.4	8.4	8.4	8.2	8.3	8.3	8.2	8.2	8.2	8.2	8.4	Cal	8.6	8.4	8.7	8.7	8.7	8.6
8	8.5	8.4	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.3	8.2	8.2	8.3	8.4	8.4	8.6	8.6	8.6	8.6	8.7	8.7
9	8.6	8.6	8.5	8.5	8.6	8.5	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.6	8.6	8.7	8.7	8.7	8.6	8.7
10	8.7	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.6	8.7	8.8	8.7	8.7	8.8	8.7	8.6
11	8.7	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.4	8.4	8.4	8.5	8.5	8.6	8.6	8.7	8.8	8.9	8.9	8.9	8.8
12	8.8	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6	8.7	8.8	8.7	8.8	8.8	8.8
13	8.8	8.8	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.7	8.7	8.7	8.7	8.8	Cal	8.8
14	8.8	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.8	8.8	8.8
15	8.8	8.8	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.5	8.5	8.5	8.4	8.5	8.5	8.6	8.7	8.8	8.8	8.8	8.9	8.9	8.9	8.8
16	8.7	8.7	8.6	8.6	8.6	8.6	8.5	8.5	8.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.7	8.8	8.8	8.9	8.9	8.9	8.8
17	8.6	8.7	8.6	8.5	8.5	8.5	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.5	8.6	8.4	8.4
18	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.6	8.5	8.6
19	8.3	8.3	Miss	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.2	8.2	8.3	8.4	8.4	8.4	8.5	8.5	8.5	8.5
20	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.2	8.2	8.3	8.4	8.4	8.5	8.5	8.5	8.4	8.4
21	8.4	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2	8.1	8.0	8.1	8.1	8.1	8.2	8.3	8.4	8.5	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**Table A-7.**  
**CSI Station Gosier Island, Louisiana**  
**July 1994 Pond Salinity ppt**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.8	4.5	4.3	4.2	4.1	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.2	4.5	4.6	4.6	4.5	4.4	4.3	4.2	4.1	4.0	4.0
2	4.0	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.9	4.1	4.2	4.3	4.3	4.2	4.1	4.0	3.9	3.8	2.6
3	2.6	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	7.0	6.8	6.6	6.6	6.8	7.4	7.9	8.0	7.8	7.6	7.3	7.1	6.9	6.5
4	6.1	5.8	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.3	5.3	5.3	5.3	5.4	5.6	5.9	6.0	6.0	6.0	5.9	5.9	5.8	5.6	5.4
5	5.2	5.0	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.9	5.1	5.2	5.2	5.2	5.1	5.2	5.1	5.0	5.0	4.9
6	4.6	4.5	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.6	4.6	4.6	4.7	4.7	4.8	4.9	4.9	5.0	5.1	4.9	4.7	4.6	4.7
7	4.6	4.4	4.4	4.3	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.5	4.6	Cal	4.6	4.4	4.3	4.2	4.1	4.0
8	4.0	4.0	4.1	4.0	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.4	4.5	4.4	4.4	4.4	4.4	4.4
9	4.3	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.3	4.1	4.0	4.1	4.2	4.3	4.3	4.1	4.3	4.7	4.8
10	4.9	4.6	4.2	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.1	4.3	4.5	4.5	4.9	4.6	4.3	4.4	4.4	4.6
11	4.4	4.3	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.1	5.1	5.1	6.1	7.1	7.5	7.5	7.6	7.8	8.0	7.9	7.6	7.3	7.2
12	7.1	7.2	7.3	7.4	7.6	7.9	8.2	8.4	8.5	8.7	8.9	9.1	9.4	9.6	9.8	9.7	9.7	9.1	8.7	8.5	8.5	8.6	8.5	8.3
13	8.2	8.4	8.7	8.7	8.8	9.0	9.1	9.2	9.4	9.6	9.6	9.6	9.7	9.9	10.2	10.4	10.4	10.4	10.0	9.5	9.3	9.0	Cal	9.3
14	9.3	9.3	9.5	9.6	9.6	9.8	10.0	10.1	10.1	10.3	10.4	10.5	10.7	10.8	10.9	10.8	10.7	10.3	9.8	9.4	8.9	9.2	8.9	8.9
15	9.0	9.1	9.2	9.3	9.3	9.5	9.6	9.6	9.8	9.9	10.1	10.2	10.4	10.6	10.7	10.6	10.2	9.9	9.5	9.4	8.9	8.7	8.6	8.6
16	8.6	8.7	8.8	8.9	9.0	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.2	10.5	10.6	10.5	10.5	10.1	10.0	9.6	8.8	8.3	8.2	8.1
17	7.9	8.3	8.5	8.6	8.7	8.7	8.8	8.9	8.9	9.1	9.3	9.5	9.8	10.1	10.4	10.4	10.4	10.6	10.6	10.3	10.0	9.7	9.4	9.6
18	9.7	9.6	9.5	9.4	9.4	9.4	9.5	9.5	9.6	9.7	9.8	10.0	10.1	10.3	10.6	11.4	11.4	11.3	11.1	10.9	10.0	9.6	9.4	9.5
19	9.5	9.5	Miss	9.7	9.8	10.0	10.2	10.5	10.8	11.0	11.3	11.6	11.8	11.9	12.2	12.7	12.4	11.7	11.3	11.0	10.4	10.3	10.3	10.2
20	10.2	10.4	10.7	10.8	11.0	11.3	11.5	11.6	11.7	11.9	12.2	12.5	12.7	13.2	13.5	13.3	13.0	12.7	12.3	11.7	11.2	10.6	10.8	10.1
21	11.1	11.3	11.5	11.6	11.8	12.1	12.2	12.3	12.5	12.8	13.0	13.2	13.6	13.8	14.0	13.6	13.3	12.8	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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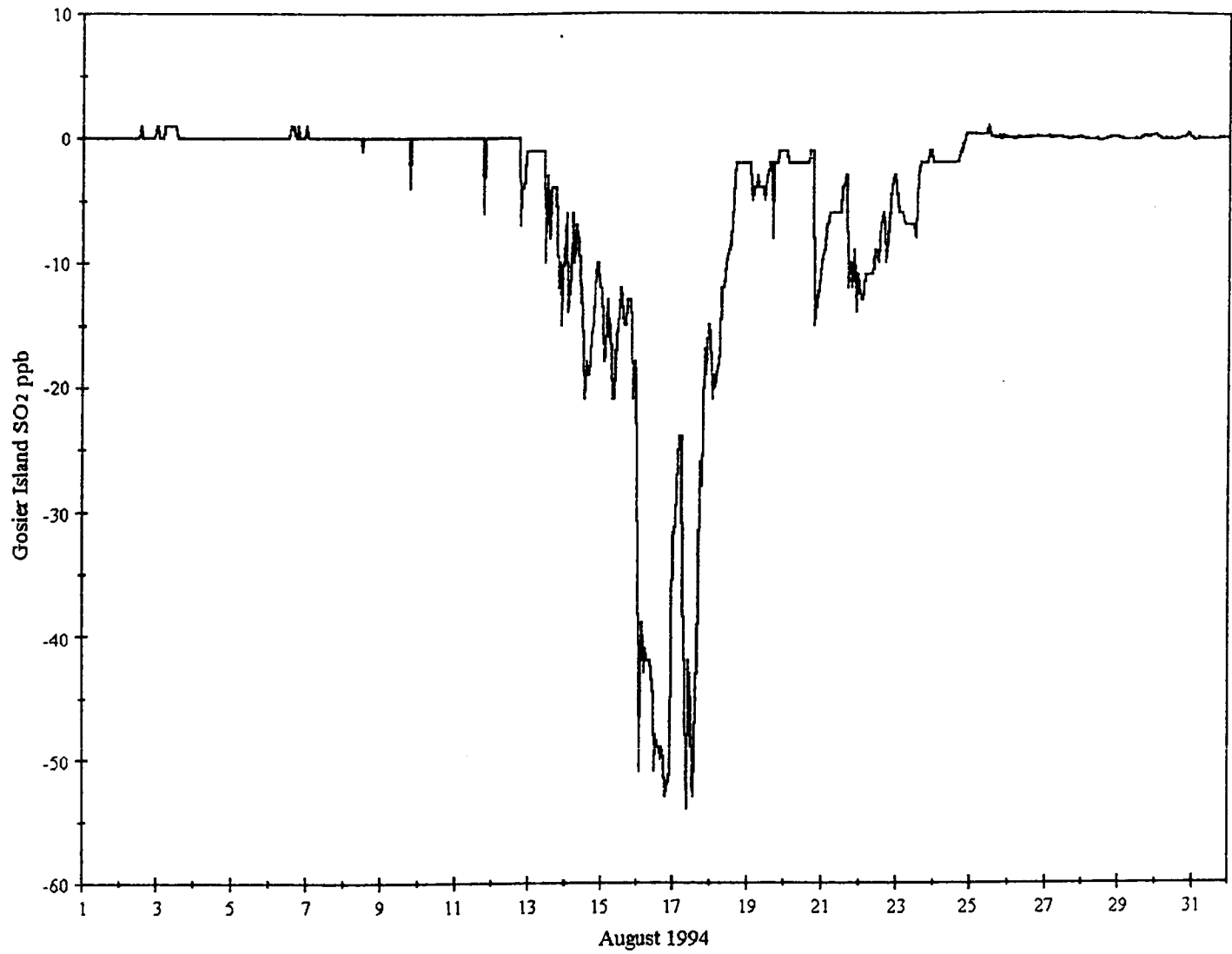


Figure A-2. August 1994 time series of uncorrected raw SO<sub>2</sub> data at Gosier Island. Hourly averaged data are listed in Table A-8.

**Table A-8.**  
**CSI Station Gosier Island, Louisiana**  
**August 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	Cal	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	0	0	0	0	0	0	0

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Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Multiple Maximum Concentrations of SO<sub>2</sub> of 1 ppb

**Table A-9.**  
**CSI Station Gosier Island, Louisiana**  
**August 1994 Air Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	25.2	25.2	25.2	25.0	24.7	24.5	24.5	24.4	24.6	24.7	24.8	25.0	25.5	26.1	26.4	26.4	26.8	26.8	27.2	27.2	28.0	27.8	27.3	27.0
2	26.3	26.1	26.2	26.5	26.6	26.7	26.8	26.9	26.8	26.8	27.3	27.5	27.3	24.6	24.3	25.5	26.2	26.9	27.1	27.3	27.1	26.8	22.2	22.7
3	23.7	24.2	24.8	24.9	24.9	25.0	25.4	25.7	25.5	25.6	25.7	25.9	26.0	26.5	26.9	27.8	28.5	28.9	29.0	29.2	29.4	29.2	29.1	28.6
4	28.1	27.8	27.5	27.1	27.0	26.9	26.9	26.9	26.9	26.9	27.1	27.2	27.5	27.6	27.6	27.9	28.3	29.2	29.8	29.9	29.9	29.2	29.2	29.0
5	28.1	27.3	27.1	27.1	27.2	26.9	27.0	26.8	26.2	26.0	26.0	26.1	27.2	27.9	27.9	28.2	Cal	Cal	29.8	30.8	29.8	29.4	29.5	29.0
6	25.4	26.9	27.2	27.2	27.3	27.3	27.4	27.2	26.7	27.3	27.2	25.9	26.6	27.4	27.5	27.7	27.5	27.4	27.5	27.8	28.5	28.4	28.6	28.0
7	27.9	27.8	27.6	27.3	27.1	26.9	27.0	27.3	27.1	27.0	27.0	27.4	27.5	28.1	27.5	27.8	28.2	28.1	28.1	28.2	28.2	28.3	28.5	28.3
8	28.0	27.5	27.5	27.6	27.4	27.4	27.3	27.1	27.0	26.5	26.8	27.0	28.1	27.5	27.8	28.2	28.1	28.1	28.2	28.2	28.3	28.5	29.1	29.3
9	27.8	27.6	27.6	27.7	27.8	28.1	28.0	28.0	27.9	27.8	28.1	28.2	28.5	28.5	28.5	28.8	28.8	28.6	28.5	28.2	28.4	28.3	28.4	28.3
10	27.8	27.4	27.5	27.4	27.5	28.0	28.0	28.1	28.1	28.0	27.8	27.8	28.0	28.1	28.2	28.4	28.6	28.8	29.0	28.6	29.1	28.9	28.9	28.8
11	28.4	28.2	28.1	28.2	28.1	28.3	28.4	28.3	28.4	28.4	28.4	28.4	28.3	28.3	28.5	28.5	28.6	28.7	26.1	26.1	27.7	28.6	28.8	28.6
12	28.3	28.0	28.1	28.1	27.9	27.8	27.7	27.6	27.6	27.4	27.8	28.0	27.9	27.5	28.4	28.3	26.1	28.3	28.5	28.3	28.2	28.1	27.7	27.7
13	27.7	27.6	27.8	27.8	27.9	27.9	27.8	27.8	27.9	28.0	27.6	24.7	26.7	27.3	27.8	27.9	27.9	27.9	28.1	28.2	28.2	28.3	28.3	28.3
14	27.9	27.9	28.1	28.1	28.1	27.8	27.9	27.7	27.5	27.1	26.3	26.8	26.9	27.4	27.2	27.1	27.1	27.1	26.8	26.8	27.1	27.3	27.5	27.6
15	27.6	27.8	27.9	28.2	28.3	27.7	27.4	27.1	28.0	28.3	28.3	28.1	27.9	27.9	27.8	27.9	28.2	28.4	28.9	29.3	29.5	29.7	29.9	29.7
16	28.8	28.9	28.8	28.5	28.2	27.6	27.5	27.3	27.0	26.9	26.7	26.5	26.5	26.4	26.3	26.4	27.0	27.4	28.2	28.3	28.8	29.3	29.8	29.7
17	29.3	29.4	29.5	29.3	29.0	29.0	28.9	28.7	28.1	27.9	28.0	27.9	27.9	28.0	26.7	25.3	24.4	25.2	25.9	26.3	26.5	27.3	27.3	27.0
18	26.9	27.0	27.0	26.8	26.5	26.5	26.4	26.3	26.2	26.2	26.3	26.4	27.1	27.1	27.0	27.0	27.5	28.2	27.9	27.6	28.6	28.6	28.6	28.2
19	27.7	27.5	27.4	27.3	27.2	27.4	27.1	27.1	27.1	27.3	27.6	27.6	27.7	28.2	28.2	27.7	28.8	29.2	30.0	30.2	30.3	30.2	29.9	29.1
20	28.7	28.2	27.8	27.8	27.8	27.6	27.5	27.4	27.2	27.1	27.0	27.2	27.6	28.3	29.1	29.5	29.8	30.3	28.5	26.6	28.2	29.5	29.3	28.7
21	28.2	28.0	27.9	27.9	27.9	27.9	27.8	27.7	27.7	27.6	27.6	27.8	28.0	28.3	28.9	29.0	25.8	27.2	26.6	28.0	28.3	27.9	24.5	25.4
22	25.9	26.4	26.4	26.3	25.9	25.9	25.6	25.8	26.4	26.5	26.7	26.9	26.8	26.6	26.5	26.3	26.0	26.5	26.5	26.9	27.6	27.2	27.5	27.4
23	26.4	26.5	26.3	26.3	26.3	26.2	26.2	26.2	26.4	25.9	26.3	25.6	27.9	27.8	28.6	28.3	28.2	29.0	28.8	28.8	28.3	27.4	26.7	27.1
24	27.0	26.9	27.2	26.9	26.8	27.1	26.9	26.6	26.8	26.4	25.4	25.9	27.3	27.7	27.9	28.0	Cal	Cal	Cal	28.7	29.2	29.2	29.2	28.7
25	27.7	27.1	27.2	26.9	26.9	26.7	27.1	27.7	27.8	27.9	27.9	27.9	27.8	28.0	27.2	27.3	27.6	25.9	26.9	27.0	26.1	27.0	27.6	27.4
26	27.2	27.3	27.2	27.5	27.6	27.5	27.3	27.2	27.2	27.3	27.0	27.2	27.5	28.0	27.7	27.2	27.3	27.8	27.9	27.8	28.0	28.1	27.6	27.3
27	27.0	27.0	27.1	27.2	27.2	27.1	27.2	27.2	27.3	27.3	27.5	26.6	26.8	27.2	26.9	25.9	25.4	26.8	27.4	27.2	27.9	27.7	27.3	27.3
28	27.0	27.0	27.2	27.1	27.1	27.2	27.2	27.1	25.5	26.4	27.0	27.0	27.2	27.9	28.5	28.6	28.9	29.5	29.6	29.5	29.5	29.4	29.0	28.2
29	27.8	27.7	27.6	27.4	27.1	27.0	26.9	27.2	27.1	27.2	26.9	27.2	29.4	29.3	29.3	28.5	29.3	30.3	29.8	29.6	29.7	30.0	29.9	29.5
30	28.9	28.8	28.6	28.5	28.4	28.2	28.1	28.3	28.4	28.6	28.5	28.3	28.2	28.3	28.3	28.4	27.8	27.9	29.9	29.8	29.6	28.2	27.3	27.3
31	27.5	27.2	27.4	27.5	27.2	26.8	26.7	26.7	26.9	26.8	26.7	26.9	27.3	27.2	27.2	29.0	29.5	30.4	30.0	29.7	27.1	27.8	28.3	28.5

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**Table A-10.**  
**CSI Station Gosier Island, Louisiana**  
**August 1994 Wind Directions**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	281	259	223	221	221	224	196	182	179	259	240	247	304	312	5	30	42	19	5	54	84	43	148	155
2	113	108	104	99	109	107	108	108	112	103	94	92	100	137	143	135	131	117	97	94	100	108	192	164
3	126	131	129	131	134	127	121	117	119	116	118	130	133	133	135	133	139	140	145	145	152	151	155	152
4	150	154	148	125	121	118	109	105	101	100	92	88	73	77	79	93	99	103	108	109	123	130	138	151
5	156	167	170	153	122	112	102	91	91	91	5	144	141	331	329	328	Cal	Cal	41	150	181	197	178	175
6	115	326	347	11	9	20	14	20	30	2	22	138	273	348	352	3	9	21	32	25	96	112	140	163
7	161	181	183	219	223	248	240	285	269	270	281	314	331	349	22	32	31	25	28	32	66	93	136	162
8	157	154	145	140	130	131	145	165	199	136	129	113	240	304	7	60	65	60	66	71	83	93	96	92
9	92	100	93	92	100	103	105	104	100	98	86	79	67	70	74	80	82	74	73	68	72	66	83	93
10	100	112	108	106	104	77	71	61	56	36	26	23	32	33	46	62	65	71	81	71	81	75	66	68
11	89	107	110	101	104	90	75	63	56	53	53	52	46	52	56	53	53	60	128	94	72	71	87	100
12	99	101	93	96	103	110	112	116	107	104	91	80	78	93	94	79	58	77	89	93	98	103	96	99
13	94	94	89	95	93	93	93	94	77	67	60	73	66	44	51	51	54	57	68	66	84	87	95	105
14	98	89	71	60	62	75	52	19	359	353	348	348	349	6	5	5	4	5	5	4	4	15	12	8
15	357	340	323	313	350	25	348	300	352	348	350	358	359	360	3	360	350	336	323	303	291	287	300	319
16	351	341	3	2	356	3	3	348	332	322	320	324	328	320	321	312	301	306	314	313	307	305	288	272
17	268	279	285	282	271	295	316	315	328	328	331	339	343	343	242	248	256	282	246	236	239	231	224	239
18	254	263	255	249	242	246	235	224	216	220	226	241	277	292	313	313	296	268	211	203	223	237	215	214
19	185	208	213	210	207	203	218	227	237	257	282	296	309	291	308	271	212	230	194	202	200	202	218	231
20	246	240	222	224	221	217	214	209	210	209	208	201	207	214	217	222	222	222	227	230	227	226	225	233
21	224	212	209	207	205	205	205	207	207	206	220	226	222	219	222	251	237	264	293	293	265	279	331	341
22	348	345	304	267	245	237	229	238	271	273	294	305	315	332	345	354	354	332	356	2	159	162	196	202
23	227	256	231	237	234	234	226	228	261	261	7	7	112	99	109	143	129	112	134	151	158	214	245	210
24	175	172	159	136	141	151	162	164	163	178	166	176	82	42	43	51	Cal	Cal	Cal	72	86	95	105	118
25	137	186	207	207	223	215	353	2	6	7	12	17	64	73	78	53	54	91	89	69	94	96	115	103
26	104	118	120	118	110	112	123	116	113	111	118	108	96	98	82	84	79	67	63	70	88	99	101	108
27	126	113	104	106	102	108	107	99	93	89	69	80	83	82	55	82	87	80	101	120	105	103	100	93
28	102	104	106	112	127	122	126	122	106	119	97	89	112	126	109	95	96	104	104	100	105	109	112	117
29	129	137	147	163	157	141	116	93	86	82	100	89	147	133	101	65	91	169	202	224	267	249	254	231
30	217	239	235	242	234	228	234	259	264	288	330	333	339	326	339	344	39	78	101	128	159	239	242	239
31	251	264	268	263	236	226	195	185	195	215	223	224	210	151	107	170	165	189	200	237	221	248	299	324

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**Table A-11.**  
**CSI Station Gosier Island, Louisiana**  
**August 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.9	1.5	1.1	2.6	2.4	1.9	1.2	1.0	0.9	0.4	1.8	2.7	2.5	2.0	1.6	2.1	1.8	1.4	0.9	1.0	0.5	0.4	1.0	1.0
2	0.6	1.8	2.5	3.9	5.1	4.0	4.4	4.7	4.2	4.5	5.2	6.3	8.2	9.1	6.5	6.6	6.5	5.2	6.3	7.6	7.8	6.6	4.7	2.7
3	5.1	4.2	5.0	4.9	4.6	4.8	5.8	6.9	7.6	7.4	6.9	7.0	6.5	6.5	6.6	6.3	6.2	6.4	6.9	6.5	5.6	5.3	5.0	4.9
4	4.8	4.2	2.5	2.4	2.9	3.1	3.3	3.1	3.6	3.1	3.9	4.1	3.7	4.7	4.9	5.2	5.5	4.9	4.8	4.5	4.1	3.5	2.9	2.5
5	1.7	1.5	1.5	1.2	1.0	1.2	0.9	0.2	0.0	0.0	0.0	0.0	0.1	0.9	1.6	1.4	Cal	Cal	0.4	1.4	2.0	1.7	1.4	2.0
6	1.6	4.9	3.8	2.0	1.1	1.4	2.7	1.9	0.3	2.8	1.9	2.4	0.4	2.8	3.6	3.1	3.4	3.5	2.7	1.9	1.4	1.3	2.3	3.0
7	3.1	3.0	2.6	2.7	1.0	1.2	2.9	2.5	2.0	2.1	2.4	2.4	2.2	1.5	2.8	3.6	2.2	1.6	1.6	2.5	3.9	3.1	3.1	2.7
8	2.4	2.0	2.0	3.0	2.7	3.2	2.5	2.1	1.4	1.3	1.5	1.3	0.7	3.5	2.1	3.5	4.8	5.3	5.9	6.2	6.4	6.3	6.4	5.0
9	4.7	4.4	4.8	5.4	6.4	6.7	7.3	6.6	5.7	4.8	5.1	5.7	6.7	7.0	7.4	7.9	7.8	7.1	6.7	7.0	6.6	6.4	5.1	4.7
10	4.2	3.5	3.8	3.3	3.5	3.3	3.3	3.9	3.7	4.2	4.3	3.7	4.3	5.0	5.3	5.4	6.2	7.0	6.3	6.6	6.0	6.0	6.6	6.5
11	6.0	5.5	4.9	4.1	3.7	3.0	3.1	3.7	4.3	4.9	5.3	5.7	5.9	6.2	6.0	6.4	6.4	5.7	6.7	6.0	5.2	6.1	6.0	5.3
12	5.9	5.8	6.3	6.1	5.4	5.2	4.8	3.8	3.4	2.8	4.0	4.9	5.6	5.7	5.9	7.4	6.0	7.3	7.2	7.1	5.2	5.1	5.6	5.7
13	6.0	5.4	6.0	6.3	5.8	5.5	5.8	5.6	4.2	4.6	4.7	5.4	6.1	5.7	6.4	6.3	6.0	5.9	7.3	7.3	6.9	6.0	6.4	4.9
14	3.8	3.3	3.4	3.8	4.9	4.9	3.9	3.4	5.3	5.6	7.6	4.8	6.3	7.4	7.2	6.4	6.4	7.7	7.2	6.9	6.5	5.6	4.5	3.6
15	2.5	2.4	2.4	3.7	3.5	2.4	3.2	5.2	4.2	6.2	6.6	7.2	7.1	8.1	8.4	7.6	5.9	6.1	5.3	5.8	5.9	5.8	6.1	8.4
16	6.9	9.7	9.9	8.3	7.5	6.3	6.3	6.1	5.1	5.8	5.7	6.4	6.1	5.7	5.5	5.4	6.2	6.4	7.4	6.9	6.1	4.7	3.2	3.5
17	4.2	4.4	4.8	3.9	3.3	4.3	4.3	4.7	5.0	4.8	4.1	3.1	2.0	1.9	5.0	8.8	7.8	5.4	4.0	4.5	5.5	4.9	5.0	5.2
18	4.8	5.4	5.3	4.8	3.8	3.8	2.9	3.2	3.4	4.1	5.4	5.0	4.9	5.3	5.0	3.3	2.6	2.8	5.1	4.4	2.8	2.5	2.9	3.6
19	4.4	4.5	4.9	4.0	3.9	4.6	4.5	4.1	4.0	4.2	4.2	3.8	3.4	2.3	2.1	2.6	4.1	3.3	2.5	2.9	3.0	3.3	3.5	4.5
20	5.0	5.0	5.0	4.9	4.8	4.2	4.7	5.1	4.8	4.8	5.0	5.6	5.2	5.1	5.1	4.3	4.4	4.9	6.2	3.1	5.6	5.7	5.6	5.2
21	4.6	4.5	5.3	5.8	5.7	6.2	6.9	6.4	6.7	6.6	5.4	6.1	6.4	5.7	6.7	6.2	8.6	6.6	5.3	4.8	4.5	6.8	8.2	7.5
22	5.5	3.6	2.0	1.8	2.2	3.0	3.5	4.2	4.9	5.2	5.0	4.6	5.2	5.0	4.7	3.7	2.8	2.0	2.1	0.6	1.0	1.4	2.2	2.2
23	3.3	2.7	2.4	2.3	2.1	2.1	1.4	1.2	0.8	0.0	0.1	0.0	0.0	1.6	1.8	1.7	1.8	3.7	4.1	4.8	4.5	5.7	3.5	1.3
24	2.5	3.1	3.0	2.5	2.7	3.6	3.1	2.4	3.1	2.2	1.1	1.2	0.9	2.0	2.8	3.5	Cal	Cal	Cal	4.1	4.3	3.7	3.0	2.3
25	1.7	0.7	0.9	1.4	1.5	0.5	0.4	1.2	3.1	5.6	6.3	5.8	5.0	5.1	3.8	5.9	6.2	6.4	2.4	8.3	6.2	9.7	7.8	7.9
26	7.6	6.8	6.1	5.7	6.9	7.1	5.7	5.5	5.6	5.2	4.5	4.4	4.4	3.7	5.3	7.3	6.9	6.7	6.7	7.2	7.3	7.1	6.5	4.9
27	5.1	5.4	6.0	5.9	5.2	4.4	4.9	5.5	5.4	4.9	5.6	4.6	5.8	6.9	8.2	9.4	6.8	6.4	6.5	4.5	3.6	4.4	5.7	6.2
28	5.9	5.9	7.1	6.0	5.0	4.9	4.7	4.7	4.4	4.0	4.8	5.2	4.6	4.0	4.2	4.4	4.5	4.4	4.5	5.4	6.0	5.7	5.7	5.2
29	4.7	5.1	4.8	3.8	2.3	2.1	1.7	1.6	1.4	1.7	1.0	1.0	0.6	0.1	0.8	0.9	1.0	1.9	3.1	2.2	1.9	2.3	2.1	2.1
30	2.9	3.3	3.5	3.6	3.9	4.2	4.6	4.7	4.0	4.3	4.7	4.6	4.7	3.9	3.8	3.2	4.8	3.1	2.3	3.2	3.4	4.5	6.7	5.9
31	5.3	4.2	3.3	3.0	2.2	1.9	2.4	2.8	2.7	2.9	3.2	3.0	2.5	2.7	2.3	2.6	2.2	1.7	3.1	4.0	6.5	2.9	2.2	0.6

Maximum speed was 9.9 m s<sup>-1</sup> from 3° on 16 August @ 0200UTC

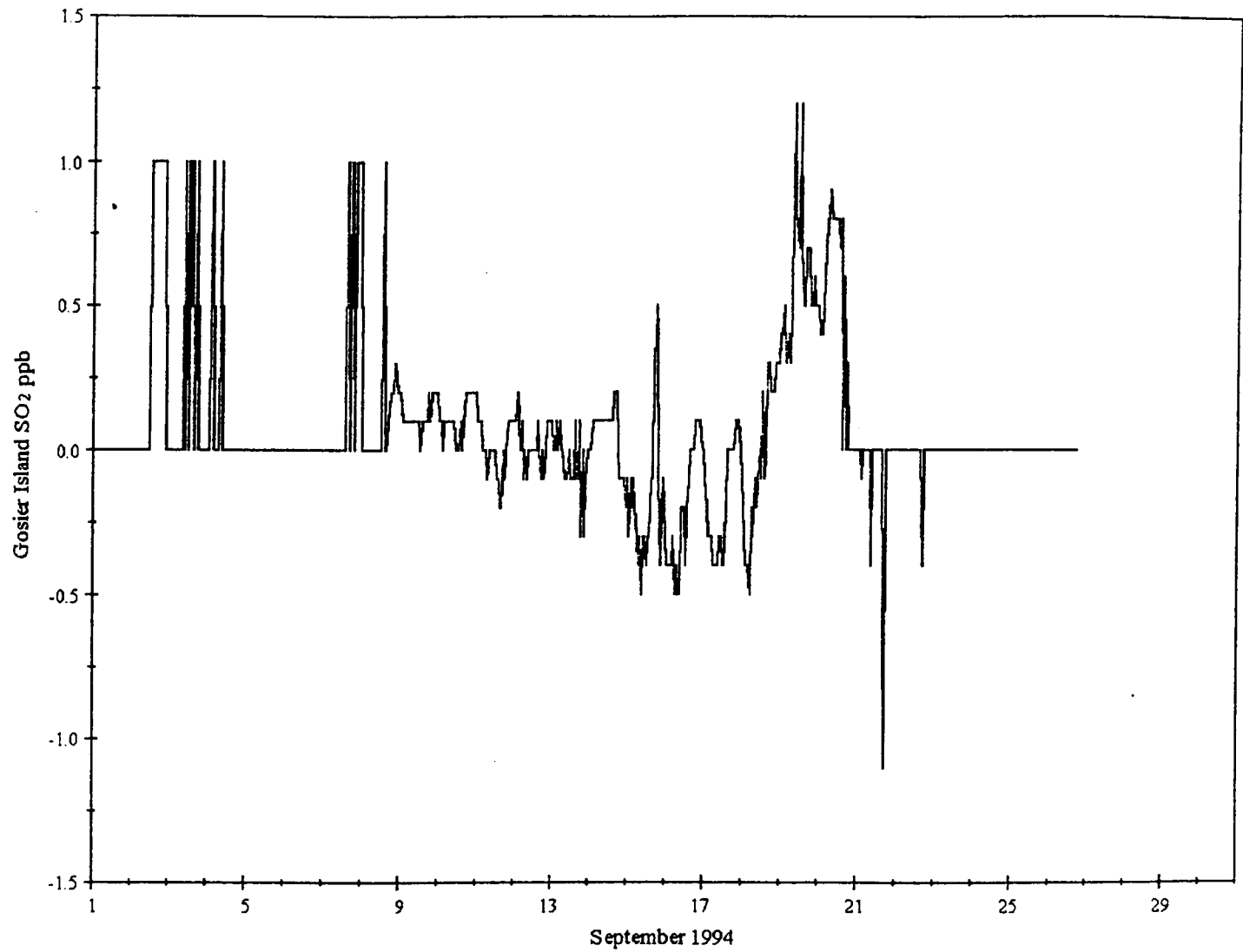


Figure A-3. September 1994 time series of uncorrected raw SO<sub>2</sub> data at Gosier Island. Hourly averaged data are listed in Table A-12.

**Table A-12.**  
**CSI Station Gosier Island, Louisiana**  
**September 1994 SO<sub>2</sub> Concentration ppb**

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Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0
3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0	0
4	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1
8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	Cal	Cal	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Multiple Maximum SO<sub>2</sub> Concentrations of 1 ppb

**Table A-13.**  
**CSI Station Gosier Island, Louisiana**  
**September 1994 Air Temperature °C**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	27.6	27.0	26.8	26.8	26.6	26.9	27.1	27.0	26.8	26.5	26.6	26.6	27.1	27.9	28.5	28.8	28.5	29.1	29.6	29.6	30.3	30.1	29.7	28.9	
2	28.4	28.4	27.8	27.8	27.4	27.6	27.7	28.1	28.2	28.1	28.0	27.9	27.9	27.8	27.6	27.7	27.9	28.2	29.0	29.6	29.8	29.8	29.6	29.3	
3	28.7	27.2	27.1	27.3	27.5	27.4	27.6	27.6	27.4	27.3	27.1	26.9	26.7	26.3	26.3	26.3	26.5	26.6	26.7	26.8	27.1	27.4	27.9	28.3	
4	28.5	28.8	28.3	27.6	27.6	27.3	27.0	26.8	26.7	26.6	26.5	26.6	26.5	26.3	26.1	26.1	26.1	26.1	26.1	26.0	26.2	26.1	26.1	26.0	
5	26.0	26.3	26.3	26.4	26.5	26.4	26.1	26.0	26.2	26.2	26.2	26.2	26.4	26.7	27.2	27.6	28.1	28.1	27.6	27.5	27.0	26.9	26.9		
6	26.8	26.6	26.7	26.7	26.4	26.1	26.0	26.0	25.9	25.7	25.4	25.7	27.0	27.6	27.8	27.7	27.8	28.0	28.1	28.3	28.6	28.8	28.9	28.8	
7	26.9	26.3	26.7	26.9	26.9	26.8	26.7	26.5	26.6	26.7	27.0	27.6	27.8	27.7	27.8	28.0	28.1	28.4	28.6	28.4	29.2	29.7	29.0	28.4	
8	27.6	27.5	27.5	27.5	27.5	27.3	27.3	27.3	27.3	27.3	27.0	26.8	27.0	27.6	28.3	28.1	27.8	27.0	27.8	27.9	28.7	29.4	29.2	28.8	27.9
9	27.5	27.4	27.5	27.4	27.2	27.2	27.2	26.9	26.7	26.8	27.0	27.2	27.1	27.3	27.6	27.8	27.9	28.6	28.7	29.6	29.9	29.6	29.0	28.1	
10	27.7	27.8	27.8	27.9	27.8	27.8	27.6	27.6	27.6	27.4	27.3	27.5	27.8	27.7	25.3	25.9	27.9	27.7	28.0	28.0	28.5	28.8	28.2	27.8	
11	27.6	27.5	27.6	27.2	27.1	26.9	26.9	27.1	27.1	26.9	26.9	27.0	27.4	26.7	26.8	27.0	26.9	27.5	27.1	27.3	27.4	27.5	27.3	27.1	
12	27.2	27.3	27.4	27.2	27.1	27.0	27.1	27.2	27.2	27.3	27.3	27.3	27.5	27.3	27.3	26.8	27.0	26.5	25.8	26.5	27.7	27.7	27.9	27.6	
13	27.4	27.4	27.6	27.7	27.7	27.7	27.7	27.8	27.8	27.4	27.5	27.6	27.5	27.2	27.2	26.6	27.5	27.3	25.7	27.5	27.4	27.9	27.9	27.8	
14	27.5	27.4	27.4	27.4	27.6	27.6	27.5	27.5	27.5	27.6	27.6	27.4	27.4	27.4	27.3	27.3	27.0	26.9	26.7	26.6	26.9	26.9	26.7	26.3	
15	26.3	26.5	25.7	24.6	25.4	25.7	25.7	25.1	25.7	25.8	25.8	25.9	25.6	25.1	24.7	25.3	23.7	24.7	25.1	25.7	26.6	26.9	27.1	27.0	
16	27.1	27.1	27.0	26.7	27.3	27.2	27.1	27.2	26.9	27.1	26.7	26.6	26.7	27.4	27.8	28.3	28.7	29.0	28.0	28.7	29.1	29.4	29.5	28.6	28.3
17	27.9	27.7	27.4	27.3	27.3	27.2	27.1	27.0	26.9	26.8	26.7	27.0	27.7	28.4	29.0	28.0	28.0	28.7	29.1	29.4	29.5	29.4	28.9	28.2	
18	27.6	27.4	27.4	27.7	27.5	27.5	27.2	26.8	26.5	26.2	25.7	25.5	25.3	25.2	25.2	25.2	25.3	25.5	25.5	26.0	26.3	27.7	27.9	27.2	
19	27.8	27.9	27.9	27.9	27.5	27.3	27.2	26.5	26.1	25.8	25.8	25.8	25.7	25.4	25.4	25.6	25.9	26.0	26.2	26.1	26.0	26.2	26.3	26.4	
20	26.3	26.3	26.4	26.4	26.3	26.2	26.1	26.0	25.6	25.5	25.3	25.8	25.8	25.9	25.9	26.2	26.5	26.9	26.5	26.4	26.4	26.3	26.3	26.1	
21	26.1	26.3	26.5	26.5	26.4	26.3	26.2	26.0	25.3	25.9	23.2	24.8	25.0	24.1	24.0	23.2	23.2	25.3	25.4	25.7	26.1	26.2	25.9	25.8	
22	25.2	25.9	26.1	26.1	26.2	25.9	24.8	25.4	25.7	25.1	25.0	25.4	24.7	26.2	26.6	27.0	27.7	28.0	28.7	28.4	27.9	27.1	27.1	26.6	
23	26.1	26.0	25.7	25.9	25.8	25.9	25.6	25.4	24.8	24.6	24.5	25.2	24.8	24.2	23.3	23.1	23.0	22.9	22.9	23.0	23.2	23.4	23.6	23.6	
24	23.7	24.0	24.0	23.8	23.7	23.8	23.6	23.3	22.4	21.8	22.2	22.3	23.1	24.1	24.7	25.2	25.4	25.2	25.1	25.0	25.4	25.5	25.5	25.1	
25	24.6	24.7	24.7	24.6	24.8	24.9	24.9	24.9	24.9	24.9	25.1	25.0	24.0	23.5	22.5	22.0	21.7	21.5	21.5	21.9	22.0	22.3	22.6	22.8	
26	23.0	23.0	23.0	23.2	23.1	22.9	22.6	22.4	22.4	22.3	22.2	22.3	22.4	22.4	22.2	22.2	22.5	23.3	23.7	Miss	Miss	Miss	Miss	Miss	
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	

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**Table A-14.**  
**CSI Station Gosier Island, Louisiana**  
**September 1994 Wind Directions**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	209	174	163	171	168	161	201	199	212	221	237	234	226	229	233	243	286	278	264	253	187	193	200	225
2	241	270	285	281	308	309	283	289	293	299	308	312	313	331	346	353	357	360	336	283	229	224	238	253
3	271	264	281	311	331	343	350	2	8	23	35	41	42	29	19	13	9	347	335	348	358	7	1	348
4	349	18	84	63	55	64	66	63	64	66	64	41	37	39	43	36	50	52	61	61	63	64	68	69
5	65	69	79	72	86	87	98	104	94	87	77	71	76	78	82	86	88	94	90	72	67	56	56	56
6	62	94	96	88	105	116	127	134	147	152	176	128	99	91	98	80	79	84	94	95	87	62	77	129
7	172	168	190	199	205	201	204	210	257	265	288	330	353	355	1	10	13	20	23	40	89	113	129	135
8	145	159	163	164	170	177	189	190	193	220	239	258	279	297	338	342	223	51	66	87	119	144	130	138
9	133	134	143	158	183	176	181	203	213	234	266	338	20	18	36	42	52	71	76	98	111	122	115	111
10	115	95	97	94	102	100	110	115	108	111	122	105	104	113	126	98	100	70	78	91	88	98	107	89
11	103	110	98	85	88	108	127	135	132	146	118	87	66	45	50	66	74	82	78	83	83	104	96	97
12	91	92	90	85	101	105	98	94	93	96	89	83	75	68	76	77	84	92	57	76	88	88	89	96
13	101	105	103	103	104	103	103	97	85	98	99	103	106	110	109	128	118	130	109	90	93	81	89	92
14	97	101	107	110	108	106	104	98	97	94	93	91	81	78	76	70	68	63	63	63	64	71	85	84
15	90	89	98	106	86	104	106	105	105	110	100	116	142	132	125	117	133	107	100	107	115	120	119	118
16	119	129	121	120	130	130	138	148	164	181	200	215	212	200	195	196	210	201	205	207	210	190	191	189
17	193	199	203	205	206	201	206	202	208	221	223	215	216	221	223	232	260	260	255	248	251	241	231	225
18	228	227	235	253	274	297	329	352	4	1	3	3	3	4	3	1	348	335	338	309	338	317	322	214
19	317	316	327	346	355	4	19	30	38	41	51	50	37	32	37	43	46	29	21	15	14	19	33	25
20	9	17	21	34	29	22	35	68	88	84	96	16	26	23	22	16	25	71	71	65	66	69	70	71
21	81	85	86	84	83	82	83	91	96	82	111	91	68	85	37	47	12	73	96	85	85	91	78	85
22	108	106	122	123	126	106	118	127	140	191	198	146	143	131	159	168	170	173	161	159	154	162	196	182
23	183	199	166	231	225	252	220	166	168	193	220	310	331	341	347	357	352	348	353	323	297	278	282	290
24	305	331	325	323	317	339	325	325	15	243	198	189	220	211	212	252	263	285	292	298	275	256	251	256
25	235	230	228	239	252	251	252	253	251	260	291	339	2	11	17	19	14	10	4	350	349	323	332	314
26	325	325	314	321	330	345	1	5	3	359	360	352	356	333	320	320	306	289	287	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**Table A-15.**  
**CSI Station Gosier Island, Louisiana**  
**September 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.8	0.9	1.1	1.4	1.0	2.1	2.7	3.4	3.4	2.7	2.4	3.3	3.1	2.9	3.2	3.6	3.7	2.9	2.5	2.1	2.8	3.1	3.4	4.5
2	5.3	5.8	5.1	5.4	4.9	4.2	5.6	6.4	6.9	6.9	6.3	6.2	6.0	6.3	5.8	5.1	4.5	2.1	0.8	0.9	2.6	3.5	4.0	4.3
3	7.0	8.5	7.3	6.3	6.7	6.7	6.7	5.8	5.9	5.9	6.0	5.8	6.1	5.9	4.3	4.2	3.6	3.9	4.1	4.0	4.9	5.0	3.8	3.5
4	2.6	1.8	5.3	8.2	7.9	7.2	6.6	6.0	5.0	5.3	4.3	3.7	5.3	5.8	6.7	6.8	6.0	5.5	5.2	4.9	4.5	5.0	5.8	5.6
5	5.3	6.5	5.8	6.3	7.0	6.7	6.9	5.4	4.9	4.7	4.9	4.9	4.7	4.7	3.7	3.6	3.2	3.1	2.5	3.0	3.2	4.4	4.3	3.6
6	3.3	3.2	4.3	4.5	4.0	3.6	3.3	3.0	2.7	2.0	0.7	0.9	0.9	2.3	2.0	2.3	2.4	2.2	2.1	1.9	1.6	1.3	0.8	0.4
7	0.5	2.0	2.2	2.9	2.9	2.8	2.9	2.0	2.1	2.5	2.1	2.8	3.7	4.0	2.8	2.9	3.3	3.4	3.1	3.3	3.1	3.3	3.0	3.0
8	3.0	3.1	3.4	3.8	4.2	3.5	3.1	3.6	3.5	2.8	3.0	3.1	2.7	1.5	2.6	2.4	1.6	1.8	2.7	2.9	2.6	3.1	3.2	3.1
9	3.7	3.3	3.9	3.7	2.3	3.1	2.7	1.6	1.8	1.7	0.8	0.7	2.7	3.4	2.9	3.2	3.3	3.0	3.5	3.7	3.9	3.5	3.1	3.2
10	2.2	2.2	3.2	5.5	4.2	4.2	4.2	4.8	5.0	3.2	3.1	2.6	3.0	3.6	5.8	3.6	1.4	2.2	3.7	3.5	2.2	3.2	3.7	4.2
11	3.1	2.9	3.6	4.6	6.5	5.6	4.8	4.8	4.0	3.6	3.8	2.8	4.3	6.3	7.4	8.1	7.8	8.0	8.3	6.2	4.8	3.9	4.0	4.5
12	5.0	4.6	5.1	6.9	5.7	5.3	6.5	6.7	6.0	6.2	6.9	6.3	6.9	7.7	8.0	8.1	7.2	8.4	5.7	5.4	7.6	8.1	8.2	8.3
13	8.2	7.9	8.0	8.7	8.8	9.1	8.5	7.9	9.0	8.8	8.4	8.4	8.9	9.4	9.1	8.6	7.3	7.0	5.6	8.3	8.1	9.9	9.7	9.7
14	9.9	10.3	9.6	8.8	8.7	8.6	8.8	8.2	7.8	8.6	8.4	8.2	8.0	8.4	8.8	8.9	9.9	10.0	9.3	9.8	10.3	11.1	11.0	10.6
15	11.9	11.1	9.7	11.1	12.5	12.5	12.1	13.6	12.2	10.1	10.7	10.0	8.6	6.7	6.0	6.7	8.4	5.6	5.9	7.7	7.5	7.5	7.1	8.2
16	8.5	8.7	9.8	9.7	8.7	7.9	6.9	6.7	5.9	5.4	4.7	3.9	3.3	3.3	3.4	3.4	3.6	3.3	3.8	3.9	4.2	5.0	5.8	6.7
17	6.5	6.0	5.6	5.6	5.8	6.1	6.0	5.6	5.6	5.5	5.1	5.5	5.7	5.8	6.0	6.4	6.6	7.1	6.3	5.5	5.2	5.3	5.8	5.9
18	6.2	6.0	6.7	7.9	7.2	6.2	6.5	6.3	5.8	5.7	6.1	6.6	5.5	4.4	4.5	4.4	2.9	2.8	3.2	2.4	1.6	0.3	0.3	0.8
19	3.0	6.5	5.8	7.2	7.6	7.2	7.7	8.1	8.5	8.0	7.2	6.6	6.9	6.7	5.8	4.9	4.0	3.8	3.4	3.7	4.5	4.5	3.3	2.1
20	2.3	2.3	2.5	2.4	2.2	1.9	2.2	2.8	2.2	1.5	1.2	2.3	2.4	3.2	4.6	4.3	4.6	4.2	5.6	4.7	5.3	7.0	7.5	8.3
21	9.4	10.2	10.5	10.5	10.2	9.9	10.1	10.3	8.1	9.6	6.4	6.3	6.8	6.6	7.1	6.7	6.7	6.3	10.5	9.0	7.9	7.8	8.6	8.4
22	7.3	5.5	6.1	6.0	5.6	6.7	6.6	5.3	4.0	2.1	1.4	3.8	4.0	4.0	4.1	4.1	3.3	1.9	2.1	2.9	2.5	3.6	3.3	1.9
23	1.8	1.4	2.3	1.4	1.6	1.2	0.7	1.7	5.2	5.5	4.5	5.3	7.7	8.9	8.8	7.1	7.2	6.2	3.1	3.6	3.0	3.2	3.7	3.3
24	3.1	4.5	3.6	2.4	1.3	1.7	1.4	0.7	0.7	0.2	0.7	2.0	1.2	1.4	2.7	3.0	3.0	3.1	2.7	2.4	1.9	2.4	2.6	2.9
25	2.6	3.4	4.0	4.2	4.8	5.1	5.4	5.0	4.8	4.7	5.1	6.7	7.5	7.8	7.5	7.2	6.7	5.8	5.2	5.1	3.5	2.2	1.7	2.0
26	4.9	5.8	6.4	6.8	7.2	7.5	7.7	7.2	5.9	4.7	3.6	3.4	2.9	2.9	4.3	4.0	3.3	3.2	3.2	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Maximum Speed 13.6 m s<sup>-1</sup> from 105° on 15 September @ 0700UTC

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**APPENDIX B**  
**BRETON ISLAND (*CHANDELEUR ISLANDER*) HOURLY DATA**



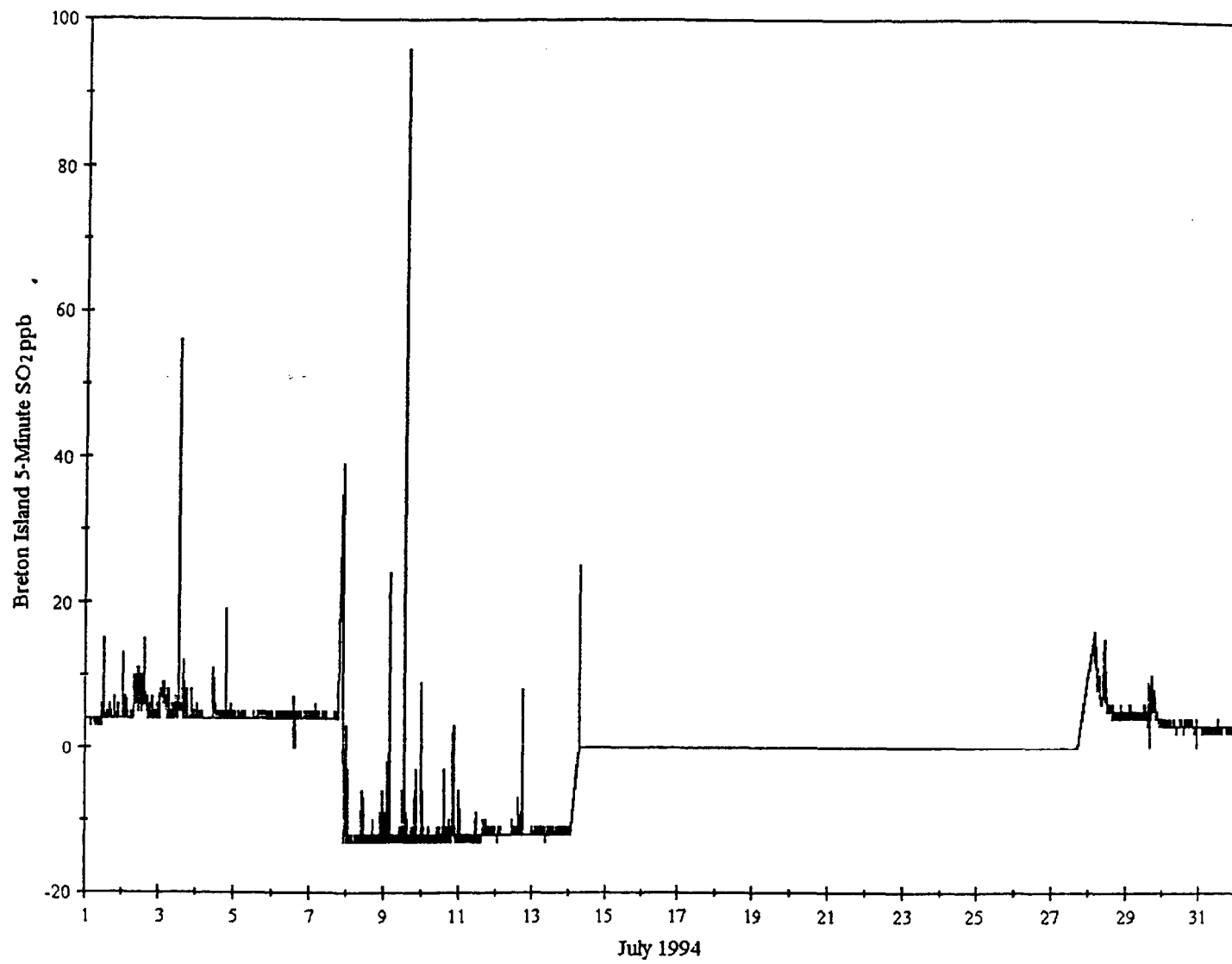


Figure B-1. July 1994 time series of raw 5-minute SO<sub>2</sub> data at Breton Island. Hourly averaged data is listed in Table B-1.

**Table B-1.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 SO<sub>2</sub> Concentration ppb**

B-4

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
2	0	1	2	1	0	0	0	0	5	4	6	3	3	3	4	5	2	1	1	1	0	1	0	1
3	1	2	4	4	3	2	3	2	0	1	1	2	1	12	1	1	2	1	0	0	0	0	1	0
4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3	1	0	1	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
9	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
10	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
11	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
12	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
13	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
14	QD	QD	Cal	Cal	Cal	Cal	Cal	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Cal	Cal	Cal	Cal	11	7	7	5	4	6	9	4	3	4	3	3	3	2	2	2	2	2	2	2
29	3	3	3	3	2	3	3	2	2	2	3	3	3	2	4	3	3	4	5	3	2	2	2	2
30	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 12 ppb on 3 July @ 1300UTC

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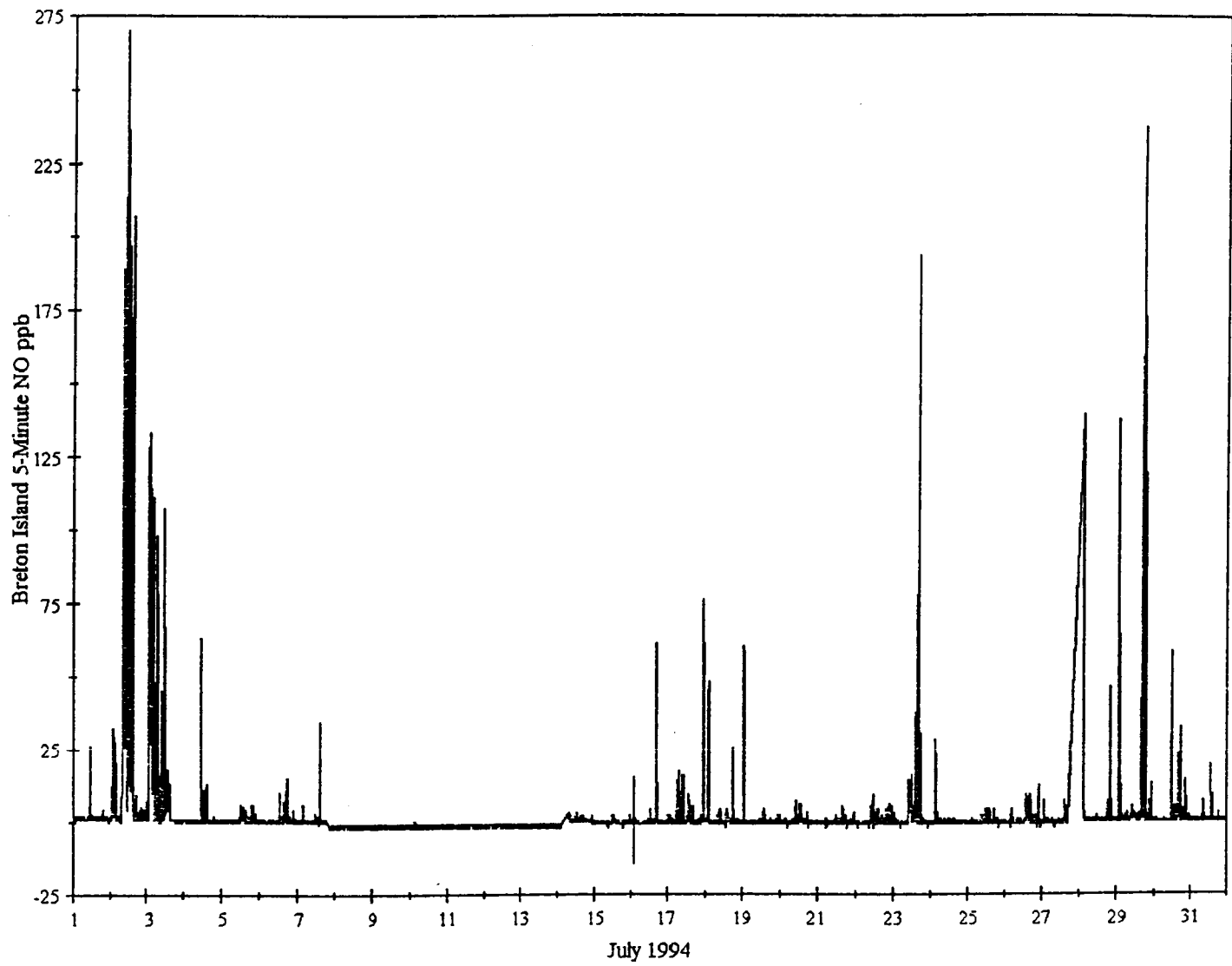


Figure B-2. July 1994 time series of raw 5-minute NO data at Breton Island. Hourly averaged data is listed in Table B-2.

**Table B-2.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 NO Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2	2	2	2	1	1	1	1	1	1	2	4	1	1	1	2	1	1	1	2	1	2	1	1
2	1	4	17	22	6	1	1	2	107	68	176	70	87	84	106	89	4	3	2	2	2	2	2	2
3	3	33	71	51	47	16	39	23	3	14	14	49	10	12	8	7	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	0	0	0	1	13	2	1	7	2	0	0	0	1	1	1	1	1
5	1	0	0	0	0	0	0	0	0	0	0	1	2	2	3	2	1	1	0	1	2	1	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	2	2	5	1	1	1	1	1	0
7	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	3	0	1	1	Cal	Cal	Cal	QD	QD
8	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
9	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
10	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
11	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
12	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
13	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
14	QD	QD	Cal	Cal	Cal	Cal	Cal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	4	3	1	3	4	0	0	1	1	0	0	0	0	0	0	0	0	0
18	0	0	8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	0	0	0	0	0
19	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1
23	0	0	0	0	0	0	0	0	0	3	5	4	1	0	4	12	57	5	0	0	0	0	0	0
24	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	3	2	3	0	0	0	0	2	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	Cal	Cal	Cal	Cal	Cal	Cal	Cal
28	Cal	Cal	Cal	Cal	2	1	1	1	2	1	1	1	2	1	1	1	1	1	2	1	9	2	1	1
29	1	1	44	4	2	2	2	3	2	2	4	3	2	2	2	2	30	28	60	12	2	2	3	2
30	1	1	1	1	1	1	1	1	1	1	1	6	14	2	3	4	5	5	1	2	4	3	2	2
31	2	1	1	2	1	2	1	2	2	2	2	1	2	4	2	1	2	2	2	2	1	2	2	2

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 176 ppb on 2 July @ 1000UTC

Miss - Monitor Offline

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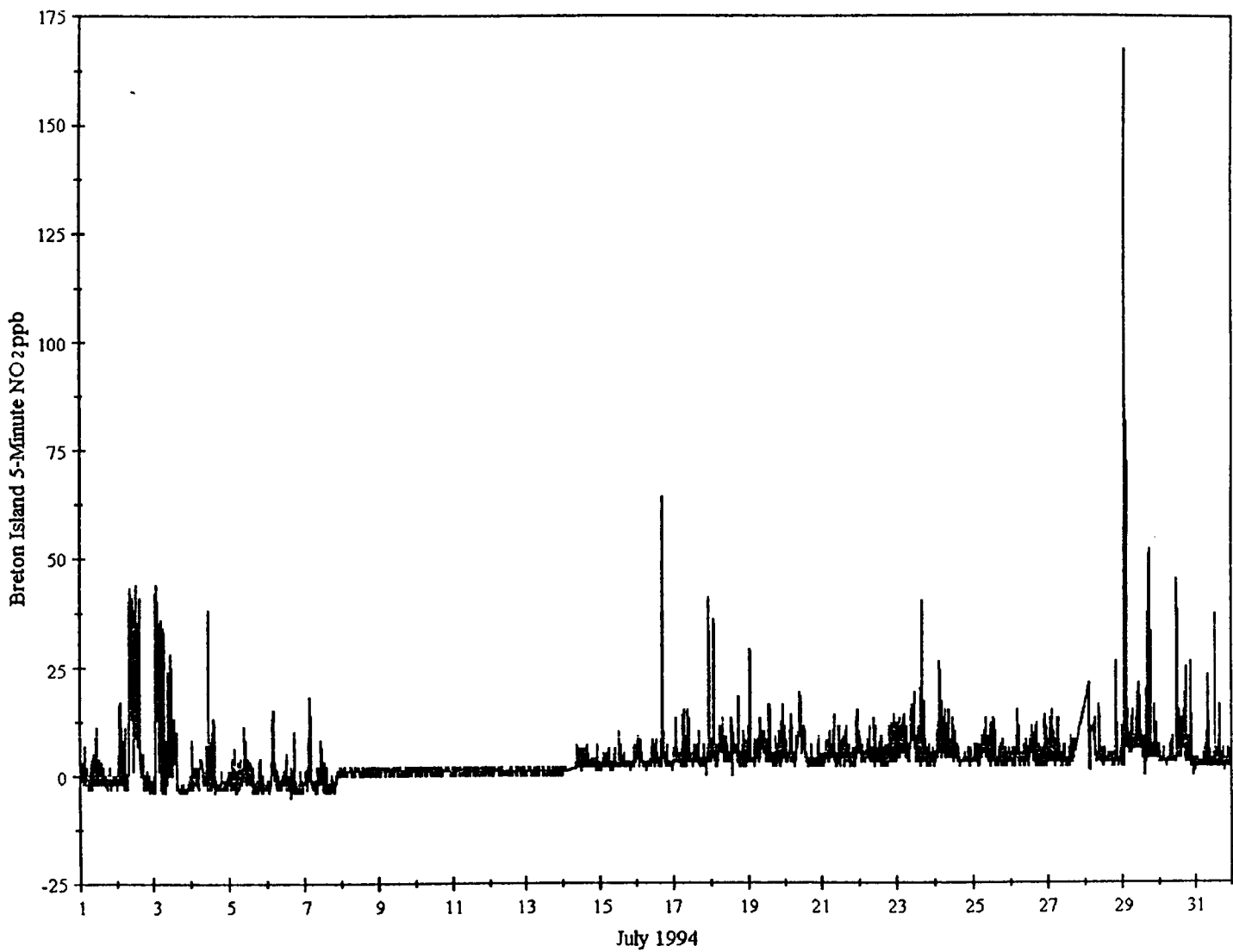


Figure B-3. July 1994 time series of raw 5-minute NO<sub>2</sub> data at Breton Island. Hourly averaged data are listed in Table B-3.

**Table B-3.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 NO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1	0	0	1	0	1	0	0	2	0	1	3	1	1	1	0	0	0	0	1	0	0	0	0
2	0	1	8	10	2	1	0	0	32	25	36	16	23	25	28	19	2	1	0	0	0	0	0	0
3	0	13	30	23	18	8	19	11	0	7	8	17	4	7	6	5	0	0	0	0	0	0	0	0
4	1	0	0	1	1	0	3	1	0	1	2	8	1	0	7	2	0	0	0	0	0	0	0	0
5	0	0	1	1	0	0	1	1	0	1	5	0	1	0	1	1	0	0	0	0	1	0	0	0
6	0	0	0	3	10	2	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
7	0	0	0	4	11	0	0	0	0	0	1	4	0	0	0	0	0	0	0	Cal	Cal	Cal	QD	QD
8	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
9	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
10	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
11	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
12	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
13	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
14	QD	QD	Cal	Cal	Cal	Cal	Cal	1	4	3	2	2	3	3	3	3	3	1	2	2	2	1	3	1
15	1	2	2	3	3	3	1	1	2	3	1	3	2	4	2	2	2	2	1	1	1	2	3	4
16	3	6	3	4	2	1	1	1	2	2	3	5	3	4	3	2	4	12	4	2	3	2	2	1
17	3	6	4	3	3	2	7	6	3	6	8	3	3	3	4	3	4	2	2	2	2	1	9	8
18	4	6	11	3	3	5	7	7	6	4	5	3	3	6	7	5	4	3	8	2	3	4	3	5
19	4	13	3	2	4	4	5	4	8	7	5	7	4	6	9	5	3	2	3	3	5	4	8	4
20	5	3	3	6	7	6	2	5	7	11	15	7	7	6	3	2	2	2	1	2	2	3	4	2
21	2	3	3	4	4	5	4	4	4	3	6	6	5	4	3	4	4	3	2	2	3	3	6	8
22	5	3	3	3	5	5	6	3	3	5	5	3	4	4	2	3	2	2	3	5	6	6	9	6
23	6	5	7	6	8	6	6	4	4	9	12	10	6	2	5	6	15	6	4	2	3	2	3	3
24	2	5	7	15	9	8	9	6	6	9	5	5	5	5	5	3	2	2	2	3	2	3	2	3
25	2	3	3	3	2	5	5	5	7	4	4	5	3	7	7	2	2	3	3	3	2	2	3	3
26	2	3	3	3	7	5	3	3	3	2	3	3	4	5	7	6	3	7	2	3	2	3	6	4
27	4	5	6	6	5	5	5	6	3	2	4	3	2	2	3	6	3	Cal	Cal	Cal	Cal	Cal	Cal	Cal
28	Cal	Cal	Cal	Cal	6	8	8	5	2	5	5	2	2	2	1	2	2	1	1	1	6	3	1	2
29	3	3	59	18	9	4	5	9	5	5	13	11	7	5	5	2	12	10	23	5	3	4	3	3
30	2	2	1	2	1	1	1	2	3	1	2	9	18	7	5	6	8	5	2	2	6	3	1	1
31	0	1	1	0	0	1	1	3	5	3	1	1	1	5	1	2	3	1	2	1	0	1	1	2

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Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 59 ppb on 29 July @ 0200UTC

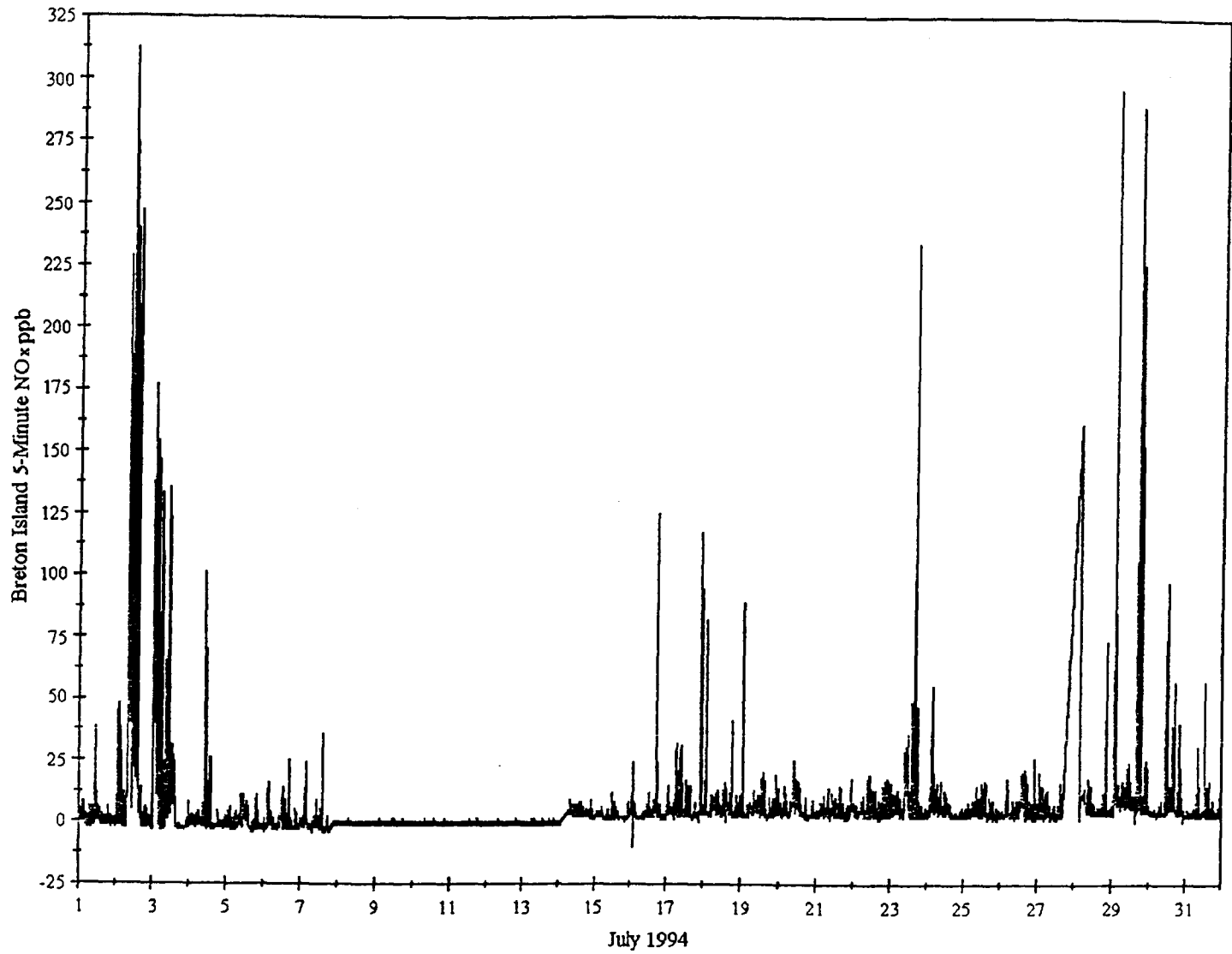


Figure B-4. July 1994 time series of raw 5-minute NO<sub>x</sub> data at Breton Island. Hourly averaged data are listed in Table B-4.

**Table B-4.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 NO<sub>x</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3	2	1	2	0	1	0	1	3	1	2	7	1	2	2	1	0	0	1	2	1	1	0	0
2	1	4	24	33	7	2	0	0	139	94	213	86	111	109	134	109	6	4	0	1	1	0	0	0
3	2	45	101	74	66	23	58	33	3	21	23	67	14	19	14	12	0	0	0	0	0	0	0	0
4	1	0	1	1	1	0	3	2	0	1	2	20	2	0	14	4	0	0	0	1	0	0	0	0
5	1	0	1	1	0	0	1	1	0	1	5	1	3	2	3	2	0	0	0	1	3	0	0	0
6	0	0	0	3	10	2	0	0	0	0	0	0	2	4	0	2	0	5	0	0	0	0	0	0
7	0	0	0	4	12	0	0	0	0	0	1	5	0	1	0	3	0	0	0	Cal	Cal	Cal	QD	QD
8	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
9	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
10	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
11	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
12	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
13	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
14	QD	QD	Cal	Cal	Cal	Cal	Cal	1	3	2	1	1	2	1	2	2	2	0	0	1	0	0	2	0
15	0	0	0	0	0	1	0	0	0	0	0	2	1	2	0	1	0	0	0	0	0	0	1	2
16	0	4	2	1	0	0	0	0	0	0	0	2	1	3	1	0	2	18	4	0	1	0	0	0
17	2	4	2	1	0	0	11	9	2	9	11	1	1	4	4	1	3	0	0	1	0	0	19	13
18	1	4	18	0	1	3	5	4	4	4	3	1	1	6	8	4	3	0	16	0	1	2	1	3
19	2	35	0	0	1	2	2	1	5	5	3	4	2	4	9	3	0	0	1	1	2	1	6	1
20	3	1	1	3	5	2	0	2	4	9	15	5	6	7	2	0	0	1	0	0	0	1	2	0
21	0	0	0	2	2	3	1	2	2	0	4	4	2	2	1	2	2	1	0	0	1	1	4	6
22	2	0	1	0	2	3	3	1	0	4	5	2	1	2	1	1	0	1	1	4	5	5	9	5
23	5	2	4	3	5	3	3	1	1	11	17	15	6	1	8	18	72	8	2	0	1	0	0	1
24	0	3	5	21	9	6	7	3	3	7	3	2	3	2	2	1	0	0	0	0	0	0	0	1
25	0	1	0	1	0	2	2	2	5	1	2	4	1	6	6	0	0	2	1	2	0	1	0	1
26	0	1	0	1	5	3	0	0	1	0	1	1	2	4	11	9	4	10	1	1	0	1	7	1
27	1	3	3	4	3	3	3	4	1	0	1	1	0	0	1	7	1	Cal	Cal	Cal	Cal	Cal	Cal	Cal
28	Cal	Cal	Cal	Cal	8	9	10	7	4	6	6	4	3	3	3	3	3	2	4	3	15	5	2	3
29	4	5	103	22	11	6	7	12	7	7	17	14	9	7	7	4	42	39	83	17	5	6	6	5
30	3	3	2	3	2	2	2	3	4	3	3	15	32	9	8	11	13	9	3	4	10	5	2	3
31	2	2	2	2	2	3	2	5	8	4	2	3	3	9	3	4	5	2	4	2	2	3	3	3

B-10

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 213 ppb on 2 July @ 1000UTC



**Table B-5.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 Air Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	28.0	27.6	27.3	27.1	27.1	27.3	27.2	27.2	27.1	26.6	26.5	26.6	27.4	27.5	27.4	27.7	27.8	28.0	28.2	28.2	28.3	28.6	28.7	28.9
2	28.6	27.6	27.4	27.3	27.0	27.4	27.3	27.6	27.4	27.1	27.0	27.0	27.4	27.6	27.8	28.0	27.8	28.0	27.7	27.9	28.0	28.0	27.7	27.6
3	27.9	27.0	26.6	26.9	26.9	27.0	27.0	27.1	26.9	24.5	27.0	26.5	26.9	27.2	27.4	27.8	27.8	28.3	28.7	29.4	29.5	29.5	30.1	30.0
4	29.4	29.1	28.7	28.6	28.4	28.3	28.2	28.1	28.0	28.0	27.9	27.9	27.0	28.3	28.4	29.3	29.4	29.6	30.0	31.7	30.8	30.1	30.4	30.6
5	30.2	29.6	29.2	29.2	28.5	28.2	28.3	28.2	28.1	28.2	28.0	27.5	28.0	28.6	29.0	28.6	29.1	29.6	29.3	29.2	29.9	30.4	30.9	30.9
6	30.6	29.7	29.2	29.0	28.6	28.6	28.4	28.3	28.2	28.2	28.1	27.8	28.4	28.2	29.1	29.4	29.0	29.7	30.7	30.3	30.4	30.4	29.8	30.1
7	29.6	29.1	29.1	28.8	28.8	28.5	28.3	28.2	27.9	28.1	28.4	28.3	28.3	28.1	26.8	28.8	24.4	26.8	27.8	28.4	Cal	Cal	Cal	23.2
8	23.1	24.3	25.6	25.4	25.9	26.5	26.6	26.8	27.0	27.1	27.1	27.1	25.1	25.8	25.5	25.4	25.1	26.6	25.9	25.9	25.8	26.5	26.6	26.4
9	26.3	26.2	26.2	26.3	26.5	26.6	26.7	26.8	27.0	27.1	27.0	27.1	27.6	25.4	26.6	26.2	27.0	22.4	27.5	24.9	26.2	28.4	24.4	26.5
10	24.7	25.0	25.3	26.0	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.4	27.7	28.0	28.1	28.3	28.6	22.7	23.3	24.2	25.2	26.8	24.0
11	24.8	24.7	24.7	24.9	25.2	25.5	25.8	25.9	26.1	26.2	26.5	26.8	26.9	27.2	27.6	24.7	24.1	25.2	27.0	27.4	27.2	27.6	28.2	27.7
12	27.5	27.2	27.1	26.2	26.1	26.2	26.5	26.5	27.1	26.6	26.6	26.8	27.1	27.1	27.4	23.3	27.9	26.3	24.4	26.7	26.0	26.7	27.4	27.6
13	27.3	27.2	27.2	27.1	27.2	27.2	27.1	27.2	27.2	27.3	22.7	23.3	23.7	24.8	25.6	26.5	25.6	26.3	26.2	25.9	25.8	26.3	27.2	27.3
14	27.1	26.8	26.5	Cal	Cal	Cal	Cal	Cal	Cal	26.4	26.3	26.5	26.7	27.1	27.4	27.8	28.3	28.8	28.9	28.8	28.8	28.8	28.9	28.7
15	28.5	28.2	28.0	27.8	27.7	27.5	27.4	27.2	27.1	27.1	27.0	26.9	27.0	27.1	27.8	28.3	28.8	28.9	28.9	29.0	29.6	29.5	29.4	30.2
16	29.1	28.9	28.5	28.3	28.1	28.1	28.0	27.8	27.6	27.6	27.4	27.4	28.1	28.3	28.5	29.1	30.1	29.1	31.2	29.4	29.5	29.9	30.0	30.2
17	29.5	29.2	29.1	28.8	28.8	28.5	28.5	28.5	28.5	28.2	28.2	28.1	28.3	28.7	28.8	28.7	28.4	29.2	29.5	29.6	30.4	30.6	27.9	28.4
18	28.8	28.5	28.6	28.2	28.2	28.3	28.4	28.5	28.4	28.6	28.7	28.4	28.5	28.1	28.2	28.2	28.4	29.1	31.1	29.6	29.9	30.0	30.3	30.1
19	26.4	27.1	27.6	27.9	28.1	28.2	28.1	28.0	28.0	28.2	28.1	28.5	28.9	23.9	26.6	28.4	27.9	26.3	27.4	28.2	28.5	28.4	28.6	28.6
20	28.4	28.3	28.2	28.1	28.0	28.0	27.9	27.7	27.7	27.5	27.6	27.2	27.8	28.5	28.8	29.3	31.4	31.6	30.7	29.9	30.0	29.2	29.8	30.4
21	29.6	29.4	29.1	28.8	28.6	28.5	28.4	28.2	28.3	28.2	28.2	28.2	27.9	29.0	28.8	29.4	29.6	30.3	31.0	29.6	28.9	26.1	27.7	28.2
22	28.3	28.2	28.2	28.2	28.4	28.4	28.7	28.5	28.4	28.4	28.6	28.6	27.8	28.5	28.0	27.4	26.3	24.6	25.9	26.6	27.2	27.8	26.3	26.2
23	26.8	26.8	27.1	27.5	27.2	27.3	27.5	27.3	27.4	27.8	27.8	27.9	27.9	28.3	28.3	26.2	26.6	27.8	23.8	25.8	26.8	27.3	27.7	27.3
24	27.8	27.4	27.7	27.9	27.7	27.6	27.4	27.3	27.4	27.1	27.2	27.0	27.7	28.4	28.4	28.8	28.5	31.2	30.2	30.2	30.7	31.7	30.7	30.6
25	30.2	29.2	28.8	28.6	28.8	28.5	28.5	28.5	28.4	28.3	27.1	27.6	27.9	28.0	27.9	28.2	28.6	29.6	30.2	30.6	30.3	28.7	29.5	
26	29.4	29.2	27.8	28.2	28.3	28.6	28.5	28.6	28.7	28.6	28.6	28.5	28.0	28.6	28.7	29.2	29.6	28.6	29.2	30.0	30.2	30.0	29.2	29.0
27	29.2	29.4	28.8	28.7	28.5	28.2	28.2	27.9	27.9	28.3	27.1	28.6	26.1	27.0	26.7	28.9	29.1	26.0	Cal	Cal	Cal	Cal	Cal	Cal
28	Cal	Cal	Cal	Cal	Cal	26.0	26.1	25.9	25.8	25.7	25.5	25.3	25.3	25.3	25.2	25.6	25.8	25.9	26.1	26.4	26.9	28.9	27.4	27.7
29	27.7	26.3	26.4	26.5	26.4	26.4	26.4	26.5	26.6	26.5	26.4	26.1	26.2	27.1	27.4	27.5	27.8	28.4	28.4	28.8	28.3	28.3	28.6	28.4
30	28.3	27.4	27.3	27.0	27.1	27.0	26.8	26.7	26.5	25.8	25.7	25.9	27.2	28.9	27.6	28.0	28.5	29.5	28.0	28.6	28.4	28.5	28.5	28.6
31	27.8	27.4	27.3	27.3	27.4	27.5	27.4	27.1	27.0	27.0	25.5	25.6	25.4	25.6	26.1	25.6	24.0	22.7	23.5	24.7	25.4	24.9	25.1	25.4

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**Table B-6.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 Pressure mb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1016	1016	1017	1017	1018	1017	1017	1017	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1018	1017	1016	1016	1015	1016
2	1016	1016	1016	1017	1015	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1016	1016	1016	1016	1016	1015	1014	1014	1013
3	1013	1013	1014	1014	1014	1014	1014	1013	1013	1013	1013	1014	1014	1015	1016	1016	1017	1017	1017	1016	1016	1015	1015	1015
4	1015	1015	1016	1016	1017	1017	1016	1016	1017	1017	1017	1018	1019	1019	1020	1020	1020	1020	1020	1019	1018	1018	1018	1018
5	1019	1019	1019	1020	1019	1020	1020	1019	1019	1019	1019	1020	1020	1021	1022	1022	1022	1022	1022	1022	1021	1020	1020	1020
6	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1021	1021	1020	1019	1018	1018	1017	1016	1016
7	1016	1016	1016	1017	1017	1017	1017	1016	1016	1016	1015	1015	1016	1016	1017	1017	1017	1017	1017	1017	Cal	Cal	Cal	1019
8	1019	1019	1019	1019	1019	1019	1020	1019	1019	1019	1019	1020	1021	1022	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022
9	1023	1023	1023	1023	1023	1023	1023	1023	1022	1023	1022	1023	1023	1024	1024	1024	1024	1024	1023	1024	1023	1023	1023	1023
10	1024	1023	1023	1023	1024	1024	1023	1023	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022
11	1022	1023	1023	1023	1023	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1022	1022	1021	1021	1021	1021	1021
12	1020	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020
13	1020	1020	1020	1020	1020	1020	1020	1021	1020	1021	1021	1022	1021	1021	1022	1023	1023	1023	1023	1023	1023	1022	1021	1021
14	1022	1022	1022	Cal	Cal	Cal	Cal	Cal	Cal	1022	1022	1023	1023	1024	1024	1024	1024	1024	1024	1023	1023	1023	1023	1023
15	1023	1023	1024	1024	1024	1025	1024	1023	1023	1023	1023	1024	1024	1025	1025	1026	1026	1025	1025	1024	1024	1024	1024	1023
16	1024	1024	1024	1024	1024	1024	1024	1023	1023	1023	1024	1024	1025	1025	1026	1026	1026	1025	1025	1024	1023	1023	1023	1023
17	1022	1022	1023	1023	1023	1023	1023	1023	1023	1022	1023	1023	1023	1024	1024	1024	1025	1025	1024	1023	1023	1023	1023	1021
18	1021	1021	1021	1022	1022	1022	1021	1021	1021	1021	1021	1021	1022	1023	1023	1023	1023	1022	1022	1021	1020	1019	1020	1020
19	1020	1020	1020	1020	1021	1020	1020	1019	1019	1019	1019	1019	1020	1021	1021	1021	1022	1022	1022	1021	1020	1020	1020	1020
20	1019	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1020	1021	1021	1022	1023	1023	1022	1022	1022	1021	1021	1021	1020
21	1020	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1022	1022	1021	1021	1020
22	1020	1020	1020	1021	1021	1021	1021	1020	1019	1020	1020	1020	1020	1021	1021	1021	1022	1022	1021	1021	1021	1020	1019	1019
23	1018	1019	1019	1019	1020	1020	1019	1019	1018	1018	1018	1018	1019	1019	1020	1021	1021	1021	1021	1020	1019	1019	1018	1019
24	1019	1018	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1018	1017	1017
25	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1018	1017	1016	1016	1016	1016
26	1017	1017	1017	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1019	1018	1018	1017	1016	1016	1016
27	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1014	1015	1015	1016	1016	1015	1015	1016	Cal	Cal	Cal	Cal	Cal	Cal
28	Cal	Cal	Cal	Cal	Cal	1015	1015	1014	1014	1014	1014	1014	1015	1016	1016	1017	1017	1018	1018	1017	1017	1017	1017	1017
29	1016	1016	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1021	1020	1020	1020	1019	1019	1019
30	1019	1020	1020	1020	1020	1020	1020	1020	1020	1019	1019	1020	1020	1020	1021	1021	1022	1022	1022	1021	1021	1021	1020	1019
31	1019	1020	1020	1020	1020	1020	1020	1020	1019	1020	1020	1020	1021	1021	1021	1022	1023	1022	1021	1021	1022	1022	1022	1021

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**Table B-7.**  
**CSI Station Breton Island, Louisiana**  
**July 1994 Relative Humidity %**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	82.8	86.9	88.3	89.2	90.5	86.4	88.0	87.8	88.8	92.4	92.8	92.0	90.8	87.2	87.5	82.9	81.2	81.7	78.4	77.3	77.4	73.5	73.2	70.4	
2	75.1	78.1	83.2	84.1	86.1	82.1	83.9	75.9	80.7	83.4	85.1	83.7	83.8	80.7	79.0	75.0	80.0	80.2	80.7	81.2	79.0	79.2	77.1	77.8	
3	76.7	79.8	83.5	78.5	81.7	81.3	80.6	81.1	82.3	93.8	82.0	86.1	81.5	81.7	81.8	76.6	78.4	72.0	70.7	67.8	68.1	71.3	68.6	70.0	
4	72.7	73.5	80.1	80.1	80.2	80.5	81.7	82.7	83.1	83.1	82.8	82.0	82.5	79.9	81.0	75.4	74.1	75.3	72.9	66.4	69.4	74.6	75.2	68.2	
5	71.0	70.7	74.4	74.2	83.3	85.2	84.1	83.3	83.6	81.7	83.6	90.1	88.0	84.7	80.7	77.9	78.5	75.0	76.6	77.3	69.8	70.7	63.2	62.6	
6	60.5	68.9	74.3	75.3	82.9	78.0	80.8	83.0	82.3	80.7	78.7	82.0	78.6	78.7	75.1	73.5	70.0	71.8	66.2	66.4	66.3	67.8	74.5	71.2	
7	75.9	77.7	76.9	79.6	75.8	80.2	83.9	84.1	78.4	84.1	81.1	80.9	81.8	78.4	77.4	78.4	93.6	85.3	76.1	74.0	Cal	Cal	Cal	99.0	
8	96.8	91.6	76.1	79.7	84.2	86.1	87.7	85.9	85.6	83.6	84.8	86.2	88.6	89.0	87.3	85.0	84.5	77.5	82.7	80.6	84.6	83.9	80.4	82.0	
9	81.9	82.6	84.4	82.5	84.1	83.9	84.1	84.7	85.0	86.0	85.5	85.4	82.8	81.8	83.8	82.1	82.4	93.1	83.7	89.3	77.2	73.7	85.9	79.9	
10	92.2	88.6	87.5	85.4	80.3	81.6	82.6	84.0	85.2	85.0	86.9	87.1	82.8	82.8	82.6	84.0	80.7	75.0	96.3	99.5	94.6	93.1	80.0	98.4	
11	94.1	93.4	89.9	91.0	89.2	88.9	88.8	85.1	85.4	87.5	85.0	84.8	87.5	87.0	87.4	83.1	85.7	85.5	79.6	81.5	81.7	80.5	78.0	76.8	
12	79.2	80.3	83.7	84.2	81.1	81.6	82.1	86.5	87.5	80.3	87.5	89.7	88.2	89.4	86.4	88.2	75.9	70.5	84.7	75.3	78.5	81.5	83.3	81.9	
13	84.9	88.0	85.5	89.9	87.3	87.4	90.0	90.1	88.9	88.9	96.9	95.7	97.0	89.8	81.6	83.3	85.5	83.7	82.4	87.3	87.0	81.0	78.3	79.7	
14	78.3	82.1	81.4	Cal	Cal	Cal	Cal	Cal	Cal	Cal	90.9	93.3	94.6	94.0	93.8	92.9	90.3	84.1	79.7	80.4	79.9	80.4	78.8	77.7	77.3
15	81.2	81.5	82.7	83.5	84.6	84.0	83.0	82.8	80.8	84.0	85.2	88.0	87.5	86.9	84.0	80.8	75.9	76.0	76.0	76.6	69.6	71.4	70.1	61.8	
16	69.4	65.1	69.3	75.1	78.1	79.0	77.8	81.1	83.2	82.2	81.9	81.7	79.7	77.9	77.4	77.5	71.3	72.5	64.9	72.2	72.1	68.2	72.9	68.0	
17	73.2	71.7	73.0	74.0	74.7	76.9	77.6	77.5	74.9	75.4	76.8	75.9	79.7	75.0	75.3	75.5	81.1	74.7	76.3	71.5	70.3	71.3	76.5	71.6	
18	71.9	73.3	68.4	76.9	76.3	80.5	78.0	79.3	81.7	77.8	76.8	81.4	81.5	78.4	80.7	81.7	78.6	74.4	70.2	73.1	73.3	73.4	66.2	66.9	
19	87.2	73.8	72.1	70.4	70.2	68.6	74.7	78.1	79.0	83.0	83.8	77.8	76.4	97.2	85.3	70.1	74.5	79.4	74.8	66.7	66.2	69.0	71.2	74.1	
20	76.0	78.3	81.4	81.4	80.8	77.4	80.2	82.3	80.1	83.4	82.2	81.7	78.7	77.7	71.1	70.7	65.9	64.9	67.3	66.3	66.6	69.0	66.6	61.7	
21	64.2	66.7	73.2	75.1	76.4	77.2	77.3	78.6	77.0	78.1	77.2	76.3	77.9	75.4	75.5	72.9	72.6	70.1	66.7	72.3	70.3	86.1	73.3	74.2	
22	70.6	72.0	79.9	79.1	80.0	81.0	77.3	79.1	79.6	79.5	76.2	75.6	82.1	80.0	76.2	75.7	82.8	85.4	84.8	78.4	77.3	75.8	80.0	80.4	
23	74.5	76.3	77.0	72.8	78.4	80.5	81.2	86.6	88.9	84.2	85.8	83.5	86.7	81.4	82.1	85.9	81.4	77.0	96.7	95.3	89.3	80.5	78.7	81.1	
24	75.2	84.3	82.3	75.9	77.7	77.3	80.7	81.6	81.5	84.7	85.8	84.9	83.1	76.3	75.2	74.8	77.0	69.9	72.6	73.4	73.1	70.0	68.8	67.8	
25	67.8	74.1	80.0	81.3	79.3	81.0	81.3	81.5	82.6	81.7	87.9	82.1	75.1	76.4	78.6	80.5	80.7	81.2	76.3	71.4	67.0	69.4	74.3	74.4	
26	74.9	78.4	82.3	80.6	80.0	74.6	81.4	79.4	81.0	79.5	80.4	79.8	75.4	79.9	79.9	76.5	71.9	73.5	76.2	71.0	68.6	73.3	74.2	73.0	
27	79.0	77.3	83.1	81.7	83.5	78.2	81.7	82.5	86.9	85.4	91.4	80.5	85.9	75.8	80.0	79.0	80.2	89.5	Cal	Cal	Cal	Cal	Cal	Cal	
28	Cal	Cal	Cal	Cal	Cal	87.8	87.3	89.6	80.7	77.5	77.6	80.2	77.5	75.8	75.6	73.5	70.5	70.1	65.5	65.7	61.9	55.2	59.4	58.7	
29	59.9	60.9	58.3	65.1	67.1	67.7	69.1	69.3	65.3	67.5	69.3	72.0	70.5	66.3	63.8	64.2	60.7	59.1	58.6	55.7	58.9	60.4	56.3	57.8	
30	58.5	59.8	62.4	65.9	63.2	63.1	68.9	68.4	67.7	70.5	72.1	70.9	67.6	60.0	63.0	59.4	58.8	56.0	61.0	62.3	62.2	61.4	58.2	60.6	
31	63.3	63.6	66.0	68.0	68.1	68.5	65.2	67.5	69.4	67.8	81.9	80.8	81.6	78.4	76.0	80.4	87.5	92.2	77.9	82.3	76.2	75.7	80.1	79.7	

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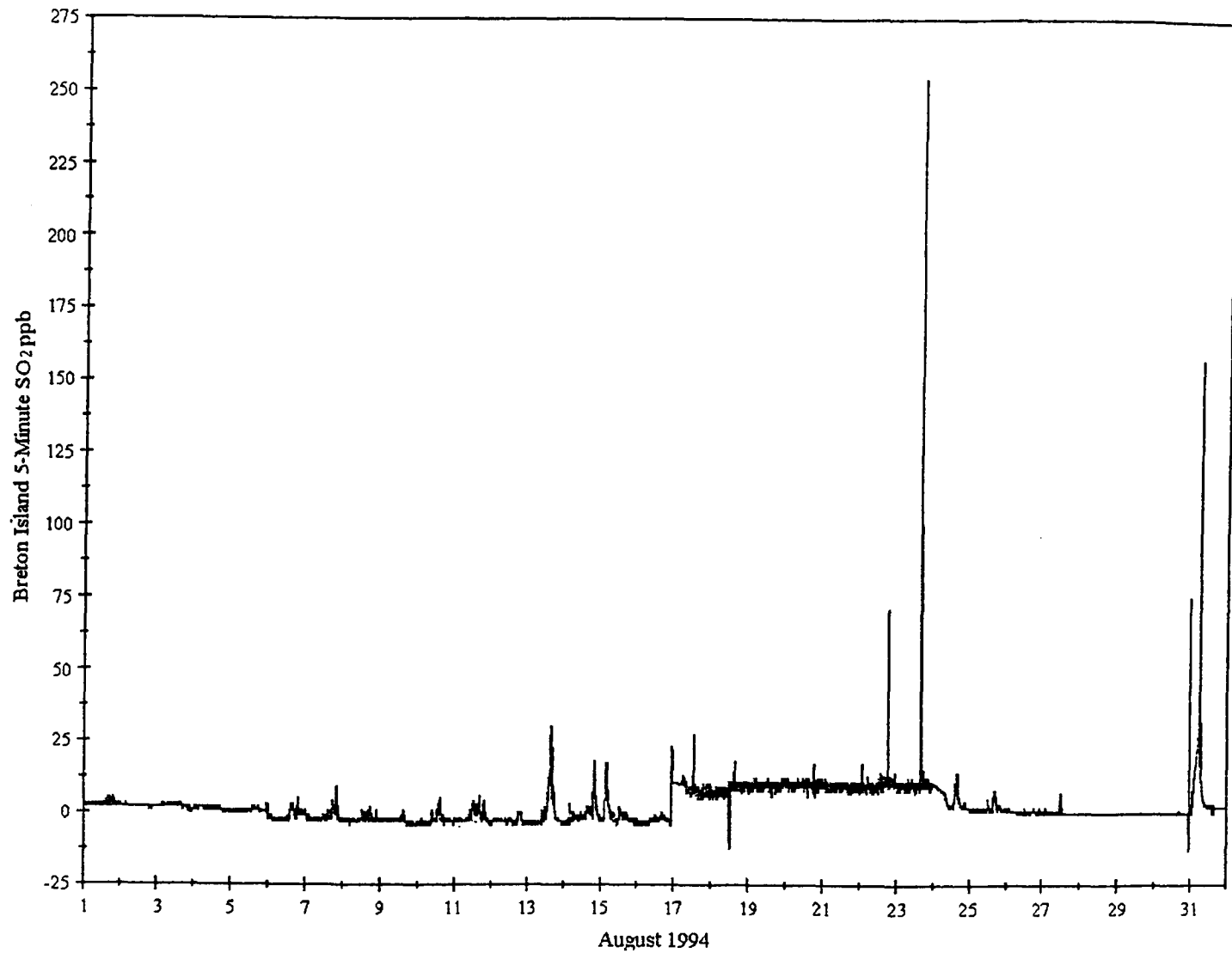


Figure B-5. August 1994 time series of raw 5-minute SO<sub>2</sub> data at Breton Island. Hourly averaged data are listed in Table B-8.

**Table B-8.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	17	17	5	2	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	1	0	0
15	0	0	0	8	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7
17	Cal	Cal	Cal	Cal	Cal	Cal	3	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1
19	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0	1	1	1	2
21	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0	0	1
22	0	1	1	0	0	1	1	1	0	0	1	1	1	1	2	2	2	3	9	2	2	2	2	2
23	1	1	1	1	1	1	1	1	1	1	1	2	0	1	1	25	9	2	1	2	1	1	0	Cal
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	2	1	1	0	0	1	7	9	9	2	1	0	1	0	0	0
25	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	5	3	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	0	Cal	Cal	Cal	Cal	Cal	51	10	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0

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Cal - Calibration

Miss - Monitor Offline

Maximum Concentration 51 on 31 August @ 0600UTC (calibration residual); Second Hourly Maximum 25 ppb on 23 August @ 1500UTC

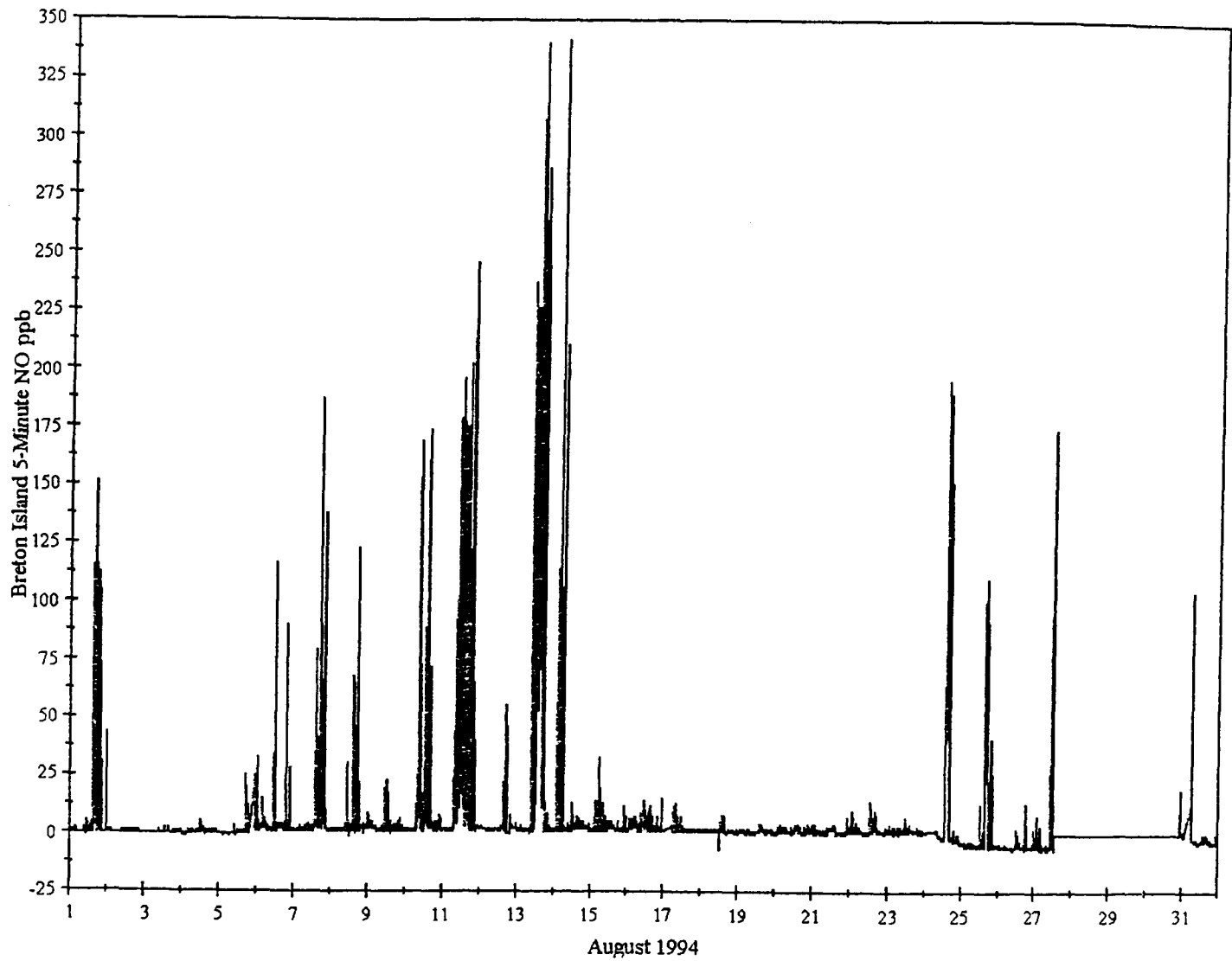


Figure B-6. August 1994 time series of raw 5-minute NO data at Breton Island. Hourly averaged data are listed in Table B-9.

**Table B-9.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 NO Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2	2	1	2	1	1	1	1	1	1	2	2	2	2	2	35	32	42	27	50	13	7	1	1
2	5	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	2	2	2	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
4	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	1	1	1	1	1	1	2	1
5	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	4	7	1	Cal	Cal	Cal	Cal
6	0	7	0	0	2	1	0	0	0	0	0	5	18	0	1	1	1	1	1	20	0	1	2	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	18	15	50	33	15	67	1	0	0
8	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	19	16	6	43	1	0	0	1	0
9	2	2	2	1	0	0	0	0	0	0	0	3	3	4	0	0	0	0	0	1	0	1	0	0
10	0	0	0	0	0	0	0	0	22	71	16	0	2	36	67	28	12	1	0	1	1	0	2	1
11	0	0	0	0	0	0	0	0	18	33	75	49	148	51	40	47	128	13	34	102	14	7	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	17	4	0	2	1	0	0
13	1	0	0	0	0	0	0	0	0	40	40	25	86	171	182	218	139	160	83	1	1	0	0	0
14	0	0	21	9	90	25	45	0	0	0	0	2	2	1	1	2	2	1	2	1	1	0	0	1
15	0	0	0	5	4	0	4	0	3	1	0	1	1	2	1	0	1	0	0	0	0	1	2	2
16	0	0	2	2	1	4	2	1	0	3	3	6	3	1	2	5	1	1	0	0	1	0	0	2
17	Cal	Cal	Cal	Cal	Cal	Cal	3	2	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0
22	0	1	1	0	1	0	0	0	0	0	0	0	1	3	2	1	3	1	0	0	0	0	0	0
23	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	Cal
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	0	0	0	0	0	29	110	101	70	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	16	78	28	0	6	3	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
27	0	0	1	0	0	0	0	0	0	0	0	0	18	31	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	0	Cal	Cal	Cal	Cal	Cal	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B-17

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 218 ppb on 13 August @ 1500UTC

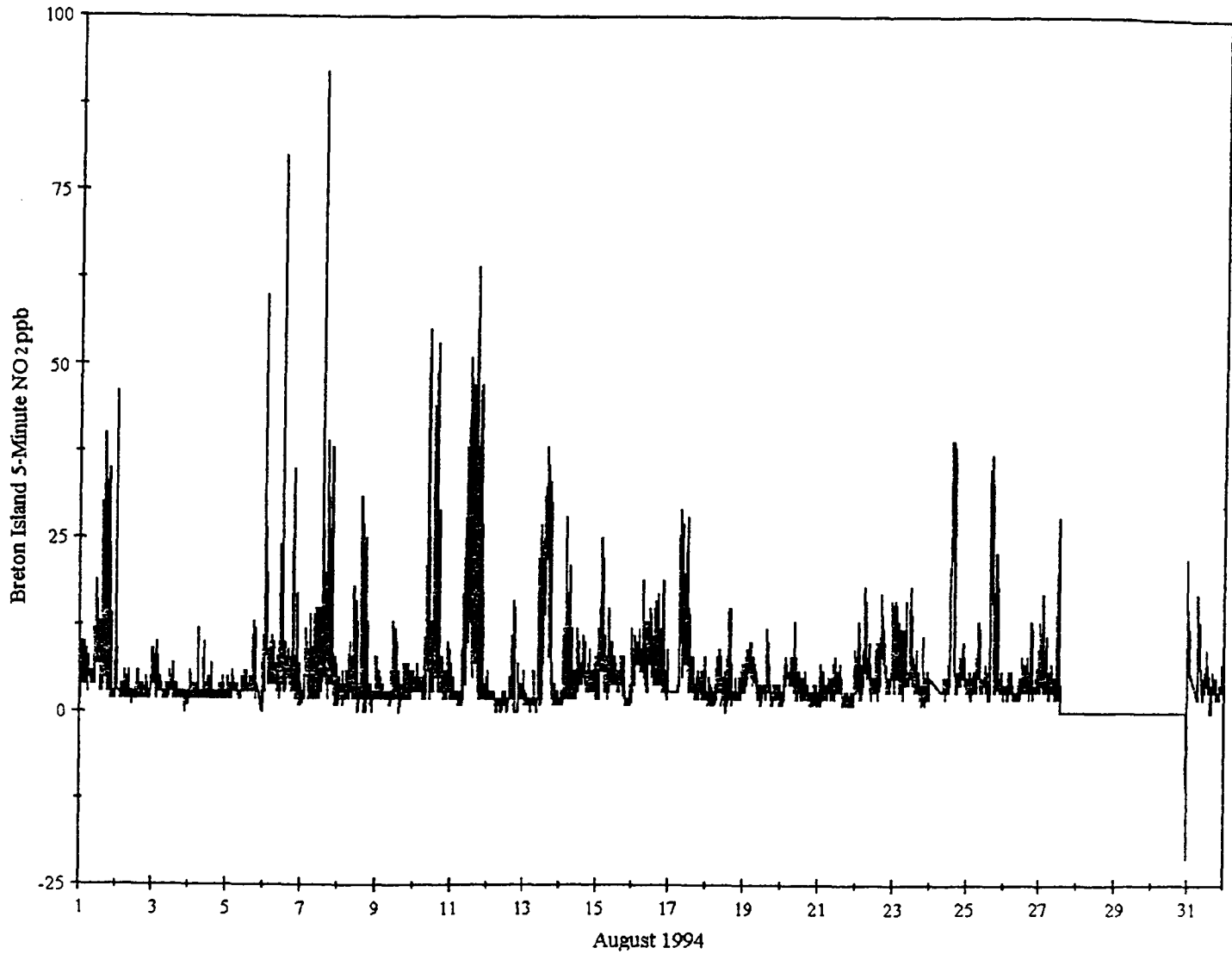


Figure B-7. August 1994 time series of raw 5-minute NO<sub>2</sub> data at Breton Island. Hourly averaged data are listed in Table B-10.



**Table B-10.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 NO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3	3	4	5	4	4	5	3	3	4	6	9	8	5	2	11	11	14	11	17	5	3	0	1
2	7	2	1	1	1	1	1	0	1	0	0	0	0	1	2	1	1	1	1	1	1	1	1	2
3	3	5	3	2	4	1	1	1	0	1	0	1	2	1	1	1	0	0	0	0	0	0	0	0
4	1	1	1	1	1	1	2	0	1	2	1	0	1	1	1	1	1	1	1	1	1	1	2	0
5	1	1	1	1	2	2	1	2	0	1	1	2	2	2	2	2	2	3	5	1	Cal	Cal	Cal	Cal
6	5	22	15	5	6	6	6	5	4	4	4	10	17	4	5	5	5	5	4	13	3	4	3	2
7	1	2	2	6	6	3	5	2	5	3	4	4	6	5	36	13	10	18	14	10	24	4	1	2
8	0	2	2	2	2	2	2	4	6	3	6	4	8	1	2	10	9	4	13	2	1	2	1	2
9	4	4	3	3	2	2	1	1	1	1	2	4	3	5	2	2	2	2	3	2	3	3	3	3
10	3	3	4	3	3	2	2	3	13	31	9	3	5	19	27	16	9	4	4	3	2	2	4	4
11	2	3	2	1	1	1	1	1	9	12	21	22	42	20	18	22	45	9	14	25	8	5	1	2
12	2	1	1	2	1	1	0	1	0	0	1	1	1	1	2	1	3	6	2	0	2	1	2	1
13	3	2	1	1	1	0	1	1	0	5	7	5	14	21	25	33	23	23	13	2	1	1	1	1
14	1	1	4	4	11	6	8	4	4	3	2	5	5	4	5	6	6	4	3	5	4	3	4	4
15	2	5	5	16	12	3	5	3	6	5	6	5	5	4	3	4	6	3	3	1	1	1	1	6
16	5	6	7	7	8	7	7	8	6	7	7	10	8	5	7	11	6	6	5	4	7	3	3	4
17	Cal	Cal	Cal	Cal	Cal	Cal	15	15	11	11	14	19	5	7	3	4	2	2	3	3	2	4	3	4
18	1	1	2	2	1	2	4	5	5	4	2	2	1	3	6	4	2	1	2	1	2	2	3	4
19	4	5	6	6	7	4	5	4	3	2	2	2	2	2	4	6	4	1	1	2	2	2	2	1
20	1	2	4	5	5	4	6	5	5	3	2	4	2	2	3	3	2	2	1	1	0	2	2	1
21	2	2	3	3	2	2	3	2	2	4	3	4	3	3	3	1	1	1	1	0	1	1	2	7
22	5	8	3	3	5	10	10	6	5	3	2	2	4	5	5	6	11	8	7	4	3	3	4	9
23	6	13	8	9	5	6	5	6	7	4	6	9	6	5	5	4	3	2	1	3	2	2	3	Cal
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1	2	2	2	2	11	29	28	22	2	3	4	4	5	4	2
25	1	2	2	2	3	2	3	7	4	2	2	3	3	2	2	8	28	14	2	6	5	2	2	1
26	1	1	1	2	3	1	1	1	1	1	1	2	4	2	3	2	2	2	3	4	2	2	2	3
27	6	5	5	2	2	2	2	2	2	1	1	7	8	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	7	Cal	Cal	Cal	Cal	Cal	6	8	3	2	3	4	6	4	2	1	3	3	2	2	2	2	4	4

B-19

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 45 ppb on 11 August @ 1600UTC

Miss - Monitor Offline

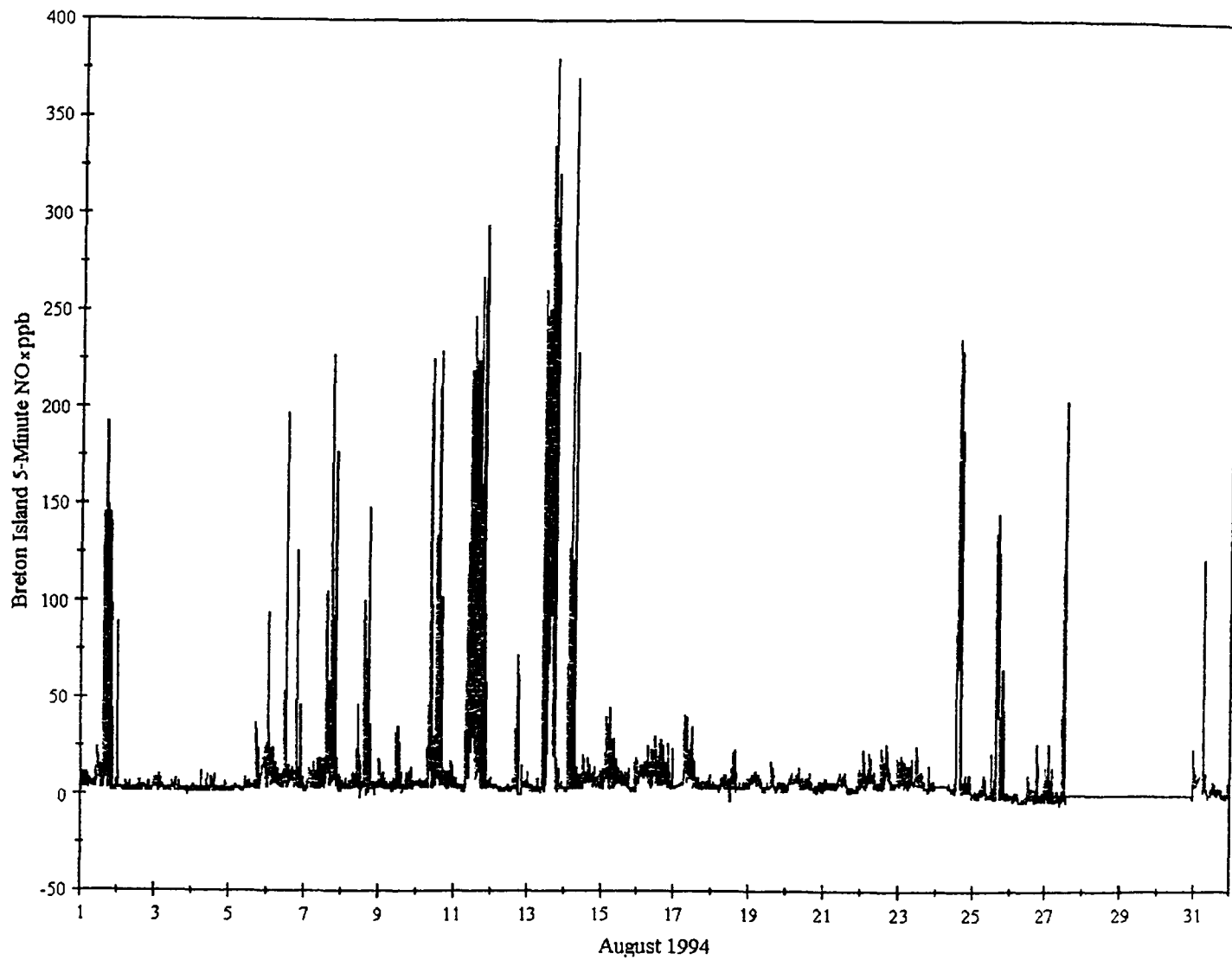


Figure B-8. August 1994 time series of raw 5-minute NO<sub>x</sub> data at Breton Island. Hourly averaged data are listed in Table B-11.

**Table B-11.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 NO<sub>x</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5	5	6	7	6	5	5	4	4	5	8	12	10	7	4	46	43	56	38	68	18	10	1	2
2	12	4	2	2	2	2	2	1	2	1	1	2	2	2	3	3	2	3	3	2	3	2	2	3
3	4	6	4	3	5	2	2	2	1	2	1	2	3	2	3	2	2	1	1	1	1	1	2	1
4	2	2	2	2	2	2	3	2	2	2	3	2	2	4	2	3	2	3	2	2	2	2	4	1
5	1	2	2	1	3	3	2	2	1	1	3	3	3	3	3	4	3	7	13	3	Cal	Cal	Cal	Cal
6	5	28	15	5	8	7	7	5	4	4	3	15	36	4	6	6	6	6	5	33	2	4	4	1
7	0	1	1	6	5	3	5	2	5	3	3	4	7	6	46	32	25	68	47	25	91	6	0	2
8	0	2	2	1	1	2	1	4	5	3	6	6	9	1	2	29	26	10	56	3	1	2	1	2
9	6	7	5	4	3	2	1	1	1	0	2	6	6	9	2	2	2	1	2	3	2	4	2	3
10	3	3	3	3	3	2	2	3	35	102	25	2	8	55	95	44	21	5	4	3	3	2	7	6
11	2	3	2	1	1	1	1	1	27	46	97	71	191	72	59	69	174	23	49	128	22	11	1	2
12	2	2	1	2	1	0	0	0	0	0	1	1	0	0	2	1	7	23	6	0	3	2	2	2
13	3	1	0	1	1	0	1	1	0	45	48	30	101	192	208	252	163	184	96	3	2	1	1	1
14	0	0	24	13	101	31	53	4	3	3	2	7	7	5	6	8	9	5	5	7	5	4	4	5
15	1	5	5	21	16	2	8	2	9	5	6	6	6	6	4	4	6	3	3	0	0	0	1	9
16	5	6	10	9	10	11	9	9	6	10	9	15	11	6	10	16	7	7	4	4	8	2	2	6
17	Cal	Cal	Cal	Cal	Cal	Cal	19	18	15	14	15	22	6	8	3	4	2	2	3	3	3	3	4	3
18	1	2	3	2	1	2	4	6	5	5	2	3	2	4	8	6	2	1	2	1	2	2	3	3
19	4	5	6	6	7	4	6	4	2	1	1	2	2	2	5	8	5	1	1	2	2	2	2	1
20	1	2	5	6	5	5	7	6	5	3	2	4	2	4	5	4	3	2	0	1	0	4	3	1
21	4	3	4	3	3	2	3	2	2	4	5	5	4	6	5	1	0	1	1	0	1	1	3	8
22	5	10	4	4	7	11	11	6	5	3	2	2	5	9	8	7	15	10	8	4	3	3	4	9
23	6	14	9	10	6	7	5	6	8	4	7	10	8	5	6	4	4	2	1	3	2	2	3	Cal
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1	0	0	0	0	39	141	130	92	0	1	1	1	2	1	0
25	0	0	0	0	0	0	0	2	1	0	0	0	2	0	0	23	108	42	0	10	7	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0
27	3	1	3	0	1	0	0	0	0	0	0	25	39	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
31	6	Cal	Cal	Cal	Cal	Cal	15	4	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	0

B-21

Cal - Calibration  
 Maximum Concentration 252 ppb on 13 August @ 1500UTC

QD - Questionable Data

Miss - Monitor Offline

**Table B-12.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 Air Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	25.7	25.8	25.8	25.6	25.5	25.2	25.4	25.3	25.3	25.2	25.4	25.4	25.2	25.9	27.2	26.9	26.9	27.6	27.8	28.1	27.9	28.8	27.5	27.0
2	26.7	26.4	26.5	26.6	26.8	26.8	27.1	27.0	27.2	26.8	27.2	27.3	27.4	27.1	24.8	25.4	26.2	26.4	27.0	27.1	26.9	26.9	21.4	23.2
3	24.2	24.6	25.1	25.7	25.5	25.5	25.6	25.9	26.1	25.9	26.1	26.2	26.3	26.5	26.8	27.4	27.7	27.9	28.4	28.4	28.8	28.9	29.1	28.8
4	28.4	28.1	27.9	27.8	27.6	27.4	27.4	27.3	27.2	27.2	27.1	27.1	27.4	28.1	27.4	27.5	26.9	28.5	28.6	28.8	29.0	28.5	28.7	28.5
5	29.0	28.0	28.0	27.8	27.6	27.4	27.3	27.1	27.0	26.8	26.7	26.6	27.6	28.7	28.5	28.7	28.8	29.3	30.2	30.7	29.4	Cal	Cal	Cal
6	Cal	25.7	27.1	26.7	26.7	26.6	26.6	27.1	27.0	26.9	27.0	27.0	26.7	27.7	27.4	27.8	28.5	28.3	28.2	28.3	28.6	28.4	28.0	28.0
7	28.0	28.0	28.1	27.4	27.6	27.2	27.2	27.5	27.6	27.4	27.3	27.5	27.4	28.0	28.4	28.3	28.8	29.1	29.4	29.2	29.3	29.2	28.8	28.9
8	28.8	28.1	28.2	28.2	28.2	28.1	28.1	28.0	27.7	27.5	27.5	27.7	25.1	28.3	28.5	28.5	28.7	28.9	28.8	28.7	28.6	28.7	28.7	28.5
9	28.0	27.8	27.8	27.8	27.8	27.9	28.0	28.0	28.0	28.0	27.9	28.0	28.2	28.5	28.9	28.6	29.1	28.9	28.9	28.8	28.7	28.8	28.8	28.5
10	28.1	27.9	27.9	27.9	27.9	28.0	27.9	27.9	27.9	27.9	27.9	27.6	27.9	28.4	28.5	28.8	29.0	29.1	29.0	29.2	29.0	29.4	29.4	29.5
11	28.9	28.4	28.4	28.6	28.5	28.4	28.3	28.2	28.2	28.2	28.2	28.2	28.5	28.7	28.9	29.1	29.1	29.3	29.3	26.7	28.5	29.1	29.6	28.7
12	28.6	28.4	28.3	28.3	28.3	28.2	28.2	28.2	28.1	28.0	28.0	27.9	27.9	28.3	28.1	28.3	28.8	26.5	27.4	28.8	28.4	28.3	28.2	27.9
13	27.9	27.8	27.8	28.0	28.0	28.0	28.1	28.0	28.0	27.9	27.9	27.9	24.8	27.2	27.7	28.7	28.5	28.6	28.8	28.8	28.8	28.4	28.5	28.5
14	28.3	28.0	28.1	28.1	28.1	28.2	27.8	26.2	26.4	27.2	27.6	26.3	27.1	27.2	27.6	27.3	27.3	27.4	27.6	27.6	27.5	27.8	27.8	28.0
15	27.6	27.6	27.9	28.1	28.3	28.6	28.0	28.2	28.2	28.4	28.3	28.3	28.2	28.0	28.1	28.4	28.6	28.8	29.4	29.7	29.8	30.1	30.5	30.6
16	30.0	29.0	28.8	28.8	28.2	28.0	27.7	27.4	27.1	26.9	26.7	26.6	26.7	26.6	26.6	26.8	27.3	27.6	28.3	28.8	29.3	29.9	30.3	30.6
17	Cal	Cal	Cal	Cal	Cal	Cal	Cal	28.9	28.6	28.2	27.6	27.8	27.8	28.0	24.4	24.5	23.9	24.5	26.0	26.0	26.1	27.2	27.5	27.1
18	27.2	27.2	27.3	27.2	27.0	27.1	27.1	26.8	26.9	26.7	26.6	26.6	26.9	26.6	27.6	26.9	27.2	27.5	26.0	27.3	27.6	28.4	28.7	29.2
19	28.6	28.1	27.9	27.9	27.8	27.8	27.8	27.7	27.7	27.7	27.8	27.7	27.7	27.9	28.5	28.0	27.9	28.3	29.0	29.4	30.0	29.8	29.6	29.4
20	29.0	28.6	28.3	28.2	28.2	28.0	28.1	27.9	28.0	27.5	27.7	27.4	27.6	28.3	28.4	28.5	29.0	29.1	28.6	27.4	25.5	29.2	29.6	29.3
21	28.8	28.5	28.4	28.2	28.3	28.4	28.0	28.2	28.1	28.0	28.0	28.0	28.1	28.2	28.5	29.0	25.3	27.0	26.4	28.0	28.1	28.4	25.0	25.3
22	25.5	26.1	26.3	26.4	26.3	26.2	26.1	26.1	26.4	26.6	26.7	26.9	26.9	26.7	26.9	26.8	26.8	27.2	27.3	27.9	28.4	27.1	27.1	28.6
23	26.8	26.8	27.0	26.8	26.9	26.9	27.0	26.7	26.6	26.4	25.9	26.4	26.6	27.2	27.5	27.4	30.1	28.7	28.8	27.9	28.3	26.4	26.1	26.8
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	27.4	27.1	27.0	27.2	28.4	29.1	28.7	28.9	28.9	29.1	28.7	28.9	29.2	29.1	29.1
25	28.6	28.2	28.1	28.2	28.2	27.9	27.7	27.5	27.5	27.8	27.8	27.9	27.9	28.4	28.6	28.3	28.3	28.5	26.9	28.6	27.6	27.6	27.5	27.8
26	27.5	27.6	27.6	27.3	27.5	27.7	27.8	27.8	27.7	27.7	27.6	27.6	27.6	28.3	28.5	28.3	27.7	27.7	28.5	28.6	28.3	28.0	28.1	27.7
27	27.5	27.2	27.4	27.2	27.4	27.5	27.5	27.6	27.5	27.5	27.4	27.5	25.5	27.5	27.9	27.0	26.5	26.5	27.4	25.9	26.7	27.3	27.3	27.1
28	27.2	27.2	27.4	27.4	27.4	27.6	27.7	27.7	27.4	27.2	27.5	27.7	27.3	28.3	28.3	28.6	28.8	28.7	29.0	28.9	28.7	29.0	28.5	28.7
29	28.3	28.0	28.0	27.9	27.7	27.7	27.6	27.3	27.5	27.4	27.2	27.2	28.4	29.3	29.6	29.5	29.9	30.0	29.2	28.6	29.6	29.8	30.6	30.5
30	29.4	29.2	29.0	29.0	28.9	28.7	28.6	28.5	28.6	28.6	28.4	28.5	28.2	28.3	28.9	28.5	29.1	29.8	28.5	29.5	29.6	28.4	27.5	27.2
31	27.6	Cal	Cal	Cal	Cal	Cal	Cal	Cal	27.2	27.1	27.3	27.4	27.3	27.5	29.2	29.3	29.5	28.5	29.0	27.7	27.4	27.4	28.7	29.8

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**Table B-13.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 Pressure mb**

		Hour UTC																								
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1020	1021	1021	1021	1021	1021	1021	1020	1020	1020	1021	1022	1022	1022	1022	1023	1023	1022	1022	1021	1021	1021	1020	1020		
2	1020	1019	1020	1020	1020	1020	1019	1019	1019	1019	1018	1018	1018	1019	1019	1019	1020	1020	1019	1018	1018	1018	1019	1018		
3	1018	1019	1019	1020	1020	1020	1019	1019	1018	1019	1019	1020	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020		
4	1020	1021	1022	1022	1022	1022	1021	1021	1020	1021	1021	1021	1022	1022	1022	1022	1023	1023	1022	1021	1021	1020	1020	1020		
5	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1019	1019	1020	1021	1021	1021	1021	1021	1021	1020	1019	Cal	Cal	Cal		
6	Cal	1019	1020	1020	1019	1019	1019	1019	1019	1018	1019	1019	1019	1019	1020	1020	1020	1020	1020	1019	1018	1018	1017	1017		
7	1017	1018	1017	1018	1018	1018	1018	1018	1017	1018	1018	1018	1018	1018	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016		
8	1016	1017	1018	1018	1018	1018	1018	1017	1017	1017	1017	1018	1019	1019	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019		
9	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1022	1022	1023	1023	1023	1022	1022	1022	1021	1021	1021		
10	1020	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1021	1021	1022	1021	1021	1021	1020		
11	1020	1020	1021	1021	1022	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1021	1020	1020	1020	1020		
12	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1023	1022	1021	1021	1020	1020	1020		
13	1020	1020	1020	1021	1021	1021	1020	1020	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1020	1020	1019	1018	1018	1018		
14	1017	1018	1018	1018	1018	1018	1017	1017	1017	1016	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1016	1015	1015	1014		
15	1015	1015	1015	1016	1016	1015	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1014	1013	1012	1012		
16	1013	1013	1013	1013	1013	1014	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1016	1017	1016	1016	1016	1016	1015	1015		
17	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1017	1016	1016	1017	1017	1018	1018	1020	1021	1021	1020	1019	1020	1020	1019	1019		
18	1019	1018	1019	1019	1019	1020	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1021	1022	1022	1022	1021	1020	1019	1019	1019	
19	1019	1019	1019	1020	1020	1020	1020	1019	1019	1019	1019	1020	1021	1021	1021	1021	1022	1021	1021	1020	1019	1018	1018	1018		
20	1018	1018	1018	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1019	1019	1018	1017	1017	1017	1017	
21	1017	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1017	1017	1017	1017	1017	1018	1017	1017	1017	1017	1016	1016	1016		
22	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1017	1017	1018	1018	1018	1019	1019	1019	1018	1018	1017	1017	1017	1016	
23	1017	1017	1018	1018	1018	1019	1019	1018	1018	1018	1018	1019	1019	1020	1021	1021	1022	1022	1022	1021	1021	1021	1021	1021		
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1022	1022	1022	1023	1023	1024	1024	1024	1024	1024	1024	1023	1023	1022	1022	
25	1022	1022	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1024	1024	1023	1023	1022	1022	1021	1021	1021	
26	1021	1021	1022	1022	1022	1021	1021	1021	1020	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1021	1021	1021	1020	
27	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1023	1022	1022	1022	1021	1020	1020	1020
28	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1021	1020	1019	1019	1019	
29	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1019	1019	1019	1019	1020	1020	1020	1019	1019	1018	1018	1017	1017	1017	
30	1017	1017	1018	1019	1019	1019	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	
31	1019	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1019	1019	1020	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1020	1019	1019	

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**Table B-14.**  
**CSI Station Breton Island, Louisiana**  
**August 1994 Relative Humidity %**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	78.1	75.4	74.5	78.6	76.9	79.4	73.7	76.0	77.6	78.3	76.4	82.1	84.9	81.0	72.0	73.6	75.5	66.4	65.2	58.3	59.3	58.5	63.3	72.2	
2	75.8	79.5	75.8	73.8	74.8	77.9	76.6	80.0	77.8	81.0	77.5	78.1	78.8	81.6	87.4	81.0	82.7	76.5	79.2	78.9	83.1	84.3	95.5	92.4	
3	91.6	87.1	82.6	78.8	82.2	82.1	86.4	84.9	83.7	85.4	84.7	86.7	86.1	87.2	86.5	86.4	86.1	85.0	83.9	83.5	82.9	82.1	80.3	83.3	
4	84.0	84.0	86.1	86.8	88.2	90.0	88.0	88.0	87.1	86.0	87.4	88.4	87.9	84.0	85.9	87.4	84.5	83.0	81.3	78.6	78.6	77.7	78.2	79.2	
5	78.3	81.1	83.5	84.5	85.8	86.6	86.9	87.2	87.2	88.7	90.0	89.7	86.6	82.2	82.1	82.7	79.6	76.7	72.5	69.5	73.5	Cal	Cal	Cal	
6	Cal	83.1	80.3	79.4	80.8	81.7	84.3	82.9	80.4	81.6	86.4	83.8	81.8	80.5	82.8	83.5	78.4	78.7	79.3	76.2	75.1	73.2	76.3	75.4	
7	73.8	75.3	74.3	80.2	82.2	82.3	78.8	80.8	78.1	80.1	80.5	75.8	80.4	77.3	78.6	74.2	77.4	74.0	72.2	72.2	71.1	73.2	73.8	73.5	
8	72.3	75.9	75.4	75.1	74.6	74.8	73.4	72.7	79.7	79.3	79.5	76.7	87.8	71.0	74.4	75.7	74.5	71.9	73.8	73.4	72.9	71.2	71.7	72.3	
9	75.2	74.2	74.9	75.3	76.2	74.8	73.5	72.4	73.9	75.3	72.9	70.9	71.6	67.1	64.6	65.7	57.9	61.2	63.1	64.2	67.7	64.5	64.8	64.0	
10	66.3	67.3	67.5	69.3	69.1	68.9	70.0	69.1	69.3	69.3	70.6	74.1	73.7	72.2	72.0	71.3	69.0	66.5	61.6	61.2	67.4	61.0	60.2	61.0	
11	66.4	70.1	69.4	68.0	69.0	67.8	68.6	68.6	70.8	70.8	69.6	68.9	70.2	71.3	71.3	70.1	72.5	71.9	74.5	76.1	73.2	75.0	71.2	79.8	
12	77.3	76.9	76.6	79.8	79.2	79.0	79.7	77.8	77.9	80.6	81.5	79.0	80.9	80.1	79.1	79.7	74.6	89.2	83.1	77.4	78.3	77.0	79.0	79.9	
13	77.4	77.1	79.0	77.5	76.3	77.3	76.4	76.0	74.7	76.4	76.5	77.6	94.6	84.4	82.5	77.2	75.2	75.7	75.9	77.5	77.4	76.2	77.3	75.6	
14	73.6	73.9	73.3	75.3	77.4	76.5	80.9	87.2	86.1	85.3	78.5	87.0	85.4	87.1	84.9	85.2	84.3	81.6	79.5	80.9	83.0	78.6	79.2	81.3	
15	81.8	80.9	78.5	81.7	80.2	77.8	82.4	80.1	84.1	80.4	82.7	80.7	80.0	80.8	81.0	79.2	78.3	75.6	72.7	73.4	70.9	70.6	71.5	69.8	
16	72.9	78.1	78.4	79.3	80.6	80.9	81.6	82.0	82.8	84.0	85.8	84.1	85.9	85.5	83.3	82.1	80.1	74.8	69.1	67.2	59.1	54.7	52.6		
17	Cal	Cal	Cal	Cal	Cal	Cal	Cal	64.0	66.9	66.7	74.0	68.9	71.3	70.8	81.0	91.3	92.0	86.8	78.0	78.8	82.3	77.9	80.7	82.7	
18	80.3	80.7	79.5	78.9	80.5	77.6	79.5	82.2	80.5	84.4	83.4	82.6	73.7	84.5	75.3	80.9	77.0	76.7	82.5	81.5	75.8	74.2	72.5	73.7	
19	75.1	79.0	78.9	81.8	80.9	81.4	81.5	81.7	81.0	81.2	80.7	81.2	83.2	81.4	80.5	81.2	80.2	77.1	70.7	72.8	70.7	69.2	70.7	73.3	
20	72.8	79.0	82.5	81.4	81.9	83.5	82.0	81.4	80.8	85.9	77.6	84.5	83.6	80.1	79.9	79.5	74.5	74.3	73.7	87.1	77.6	76.4	72.6	74.6	
21	77.8	78.1	78.1	80.6	75.8	74.4	80.2	79.8	80.6	83.6	84.0	82.4	83.5	82.9	83.2	76.7	85.4	88.3	76.5	75.5	72.4	72.4	88.0	85.7	
22	84.7	82.1	80.0	79.7	80.4	83.9	85.4	86.1	82.9	83.7	80.8	77.3	79.1	83.2	76.0	81.2	81.0	78.6	77.5	78.4	73.6	78.3	79.7	77.0	
23	81.2	79.1	81.7	84.0	84.2	84.4	82.4	85.3	86.5	87.6	88.8	87.4	87.9	87.0	84.0	78.3	72.0	76.3	77.0	76.6	75.1	81.3	86.8	79.2	
24	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	77.4	80.2	84.0	83.8	80.7	71.8	72.2	69.9	66.7	68.6	74.1	71.1	63.0	66.7	65.0	
25	66.9	68.1	68.6	68.1	66.6	69.7	68.6	74.5	75.6	73.5	77.3	72.8	74.9	74.4	74.3	72.7	77.5	77.7	74.0	76.2	80.5	78.4	74.7	78.5	
26	79.2	81.8	80.0	83.3	82.9	81.8	77.5	75.1	77.5	75.7	75.4	76.5	76.9	75.9	71.8	75.5	74.0	77.7	72.9	73.4	77.4	76.0	75.5	76.9	
27	78.2	80.8	78.8	81.4	79.7	76.2	76.2	74.3	74.5	73.3	74.8	78.3	80.1	77.3	76.6	84.0	81.9	85.0	75.5	83.9	77.0	79.5	81.4	82.0	
28	80.8	81.8	81.9	86.5	83.7	82.0	81.1	80.8	83.1	82.1	82.2	77.9	87.0	81.8	80.4	80.8	79.2	77.2	76.4	77.9	79.1	77.3	80.2	79.5	
29	82.1	83.2	80.7	82.0	84.2	84.3	84.1	84.6	82.8	84.2	84.9	85.7	81.9	77.3	77.5	77.4	73.9	73.5	76.6	77.1	73.2	71.2	69.2	71.2	
30	74.2	75.7	77.5	77.5	77.2	79.8	80.1	81.3	81.3	78.8	81.6	77.1	82.7	82.2	80.3	78.5	76.2	71.5	76.4	72.8	72.9	77.2	80.3	76.1	
31	78.5	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	85.9	85.5	83.2	83.4	82.7	81.3	76.2	75.0	70.8	76.6	69.8	79.8	83.0	80.0	76.2	71.1

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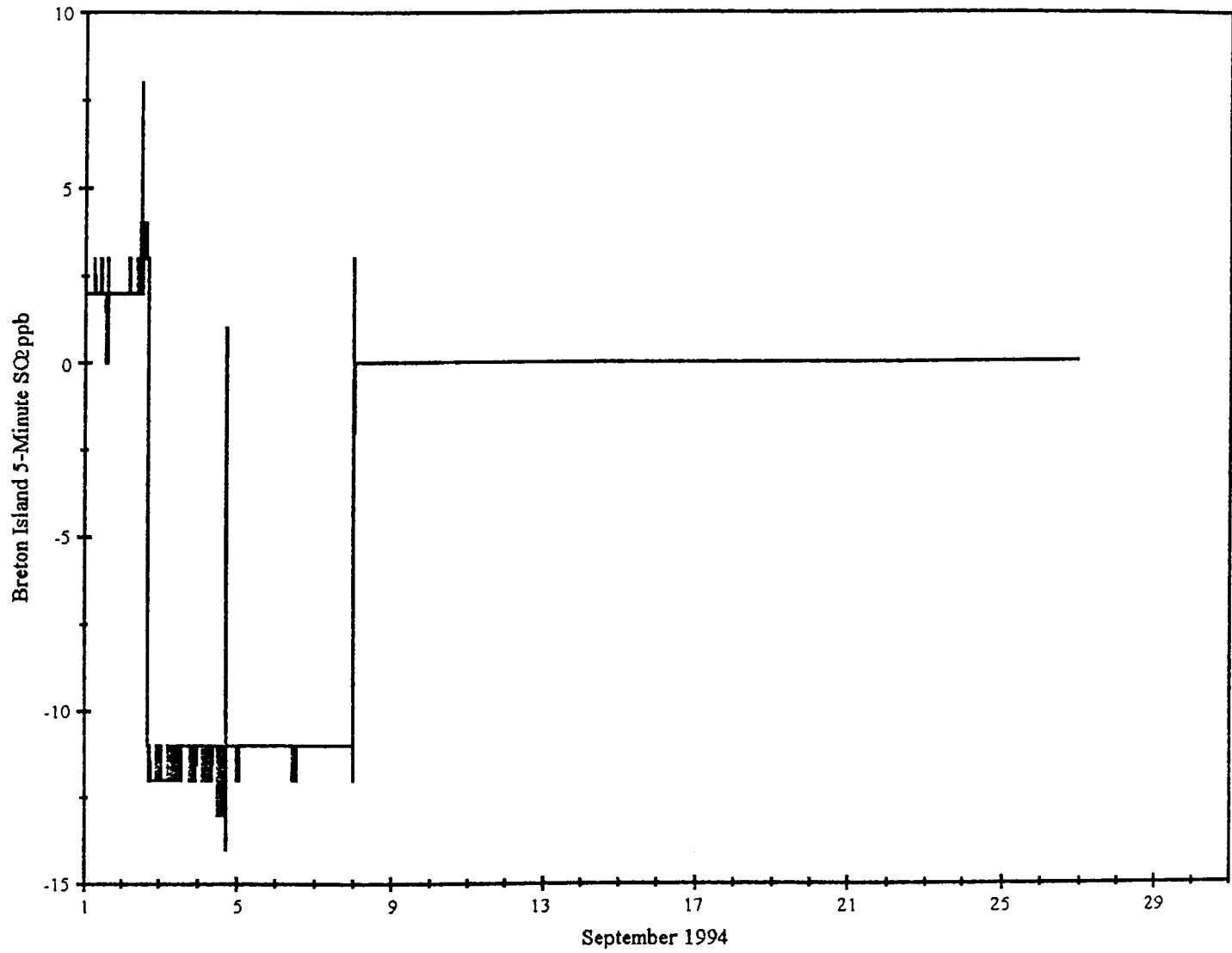


Figure B-9. September 1994 time series of raw 5-minute SO<sub>2</sub> data at Breton Island. Hourly averaged data are listed in Table B-15.

**Table B-15.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	QD	QD	QD	QD	QD	QD	QD
3	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
4	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
5	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
6	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
7	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD	QD
8	QD	Cal	Cal	Cal	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
9	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
10	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
11	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
12	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline



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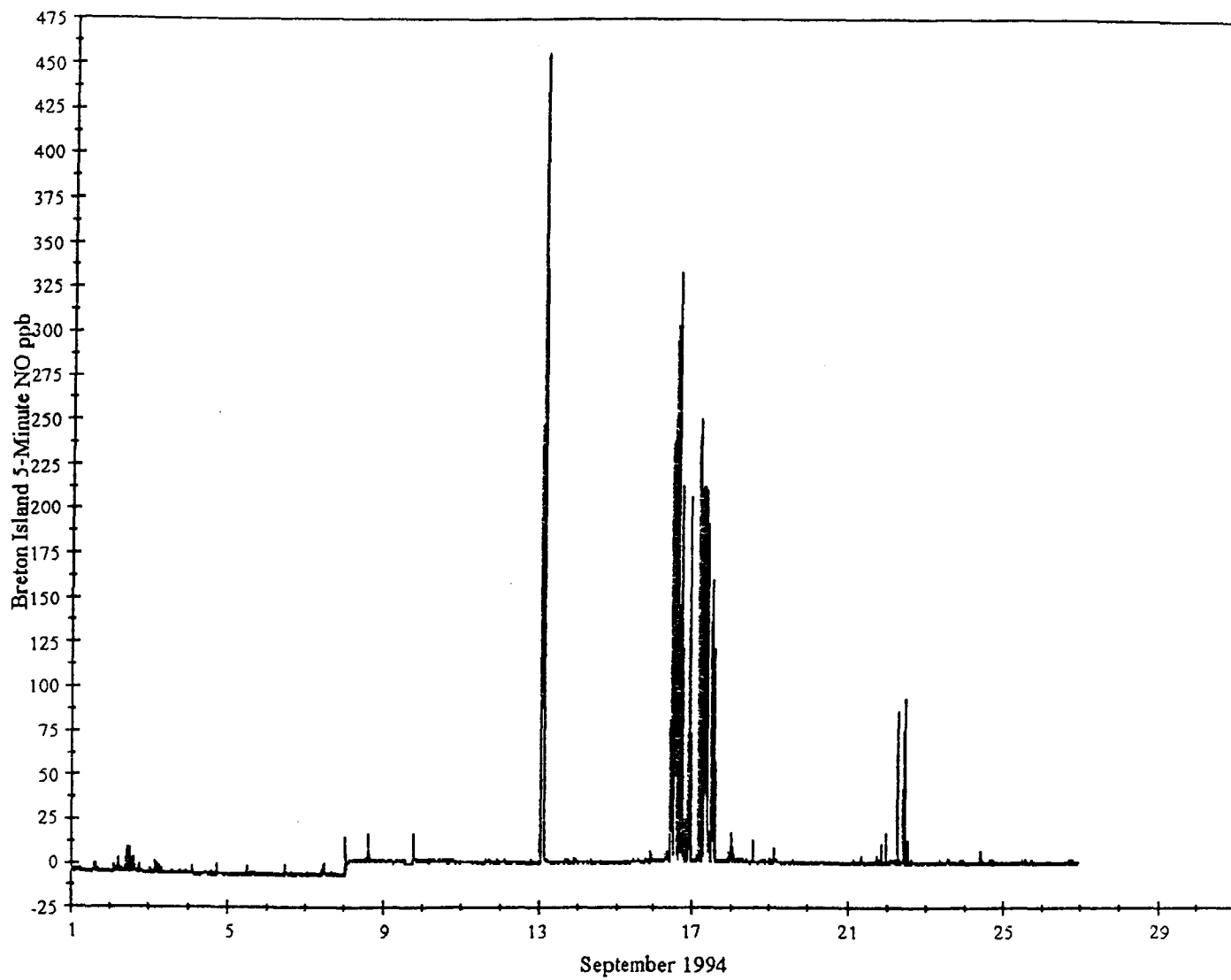


Figure B-10. September 1994 time series of raw 5-minute NO data at Breton Island. Hourly averaged data are listed in Table B-16.

**Table B-16.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 NO Concentration ppb**

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Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	Cal	Cal	Cal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	2	Cal	Cal	Cal	0	0	0	0	0	0	0	0	0	0	Cal	Cal	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
16	1	0	0	0	0	0	1	2	3	0	38	70	75	229	99	130	44	88	27	11	10	61	100	12
17	0	0	1	95	95	109	109	108	128	59	4	66	52	29	6	1	1	0	1	1	1	0	1	2
18	4	2	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
19	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4
22	0	0	0	1	0	0	21	0	0	6	26	1	1	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 229 ppb on 16 September @ 1300UTC

Miss - Monitor Offline

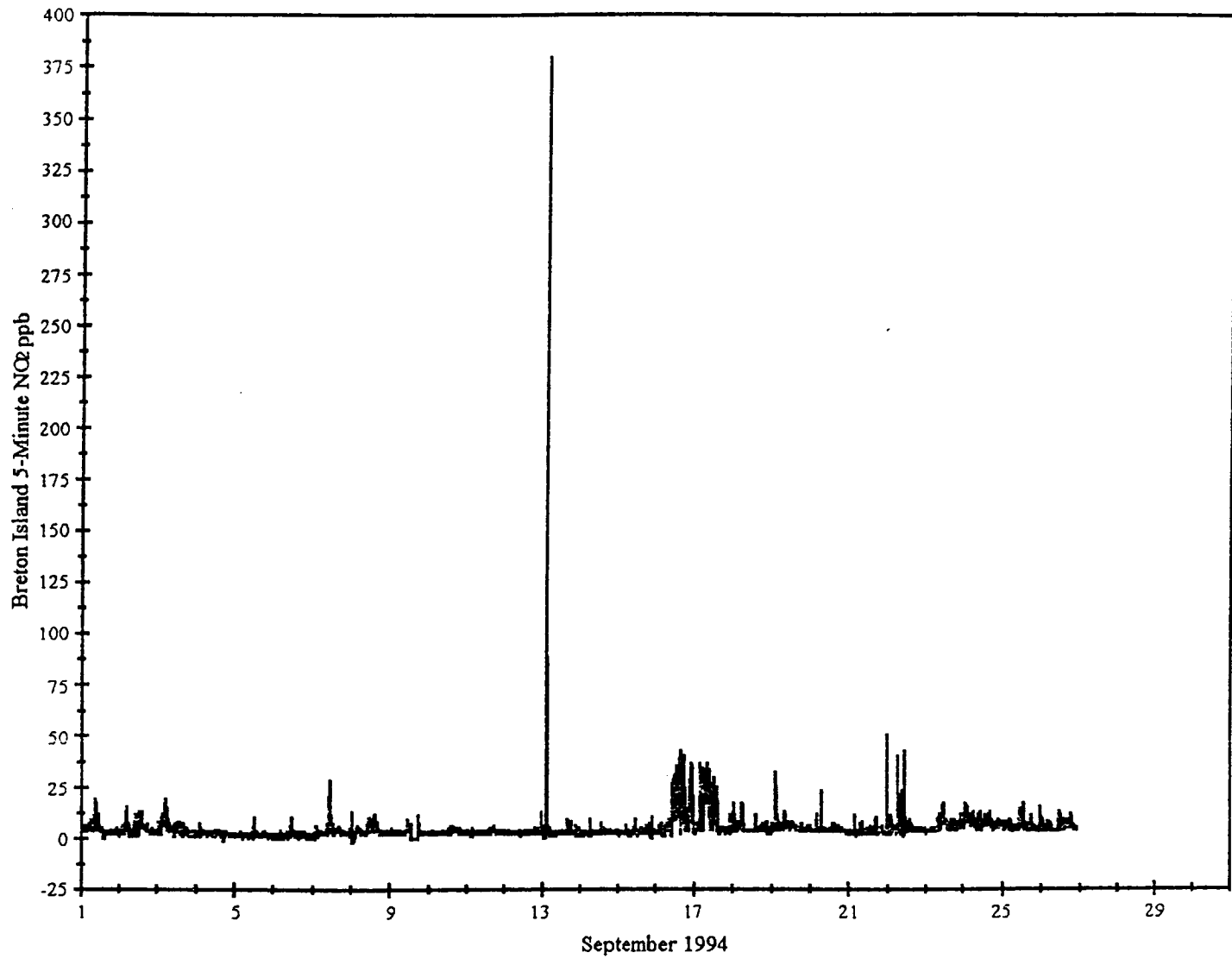


Figure B-11. September 1994 time series of raw 5-minute NO<sub>2</sub> data at Breton Island. Hourly averaged data are listed in Table B-17.

**Table B-17.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 NO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3	3	3	3	4	5	6	4	6	11	7	6	3	2	0	1	2	2	2	2	1	2	3	2
2	1	2	3	3	9	5	3	2	1	3	5	4	4	6	10	5	3	4	3	2	2	3	2	2
3	3	2	2	8	10	16	6	5	3	4	2	3	4	5	3	1	2	3	2	2	1	2	1	1
4	1	1	3	2	2	2	2	1	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0
5	1	1	1	1	0	0	0	0	0	1	0	0	2	1	1	1	1	1	1	1	1	1	1	0
6	0	0	0	0	1	0	0	1	1	1	1	4	2	1	1	1	1	1	1	1	0	0	0	1
7	0	0	2	1	2	2	2	2	1	4	8	11	6	3	2	3	3	3	2	2	2	1	1	2
8	2	Cal	Cal	Cal	3	2	2	2	2	1	3	6	3	4	5	5	3	3	2	2	2	2	2	2
9	2	2	2	2	2	2	2	2	2	2	3	5	4	2	0	0	0	0	4	2	2	2	1	1
10	1	1	2	1	1	2	1	1	2	1	1	1	2	2	4	3	3	3	2	3	2	2	2	1
11	2	2	1	1	2	1	1	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2	1	2
12	1	1	2	1	2	2	2	1	1	1	1	1	2	2	2	2	2	2	3	2	2	2	1	3
13	2	Cal	Cal	Cal	2	1	1	1	1	1	1	1	1	2	Cal	Cal	2	1	1	1	0	1	0	0
14	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0
15	0	0	0	0	0	1	0	0	0	0	1	2	1	1	1	2	1	1	1	1	1	1	0	0
16	0	1	1	1	0	1	2	3	5	1	8	17	16	31	19	22	13	20	8	7	5	20	24	5
17	1	3	3	17	17	20	21	23	25	18	5	15	17	14	5	1	2	2	2	1	2	2	3	4
18	6	5	3	3	4	7	4	2	2	2	2	2	2	2	3	2	2	3	3	3	3	3	1	1
19	2	3	6	13	4	3	3	3	8	5	4	3	5	5	4	3	3	2	3	2	2	1	3	3
20	2	1	1	2	3	2	2	4	2	2	2	2	2	3	3	3	3	3	2	2	1	1	1	1
21	1	0	1	1	1	1	1	2	2	1	1	2	2	2	1	1	1	2	2	1	1	1	1	11
22	1	2	2	4	3	1	13	1	1	5	13	3	3	4	4	2	3	2	1	2	1	2	2	1
23	1	1	2	2	2	2	2	5	5	3	5	11	6	5	3	2	3	3	4	3	3	4	6	5
24	5	10	10	8	7	7	6	4	3	6	4	3	5	7	5	7	7	4	3	4	5	4	4	5
25	4	4	4	4	5	3	3	3	2	3	4	6	5	8	3	2	2	6	3	3	2	2	2	4
26	4	3	3	2	4	4	2	2	2	2	2	5	4	3	4	5	4	5	6	4	3	3	2	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 31 ppb on 16 September @ 1300UTC

Miss - Monitor Offline

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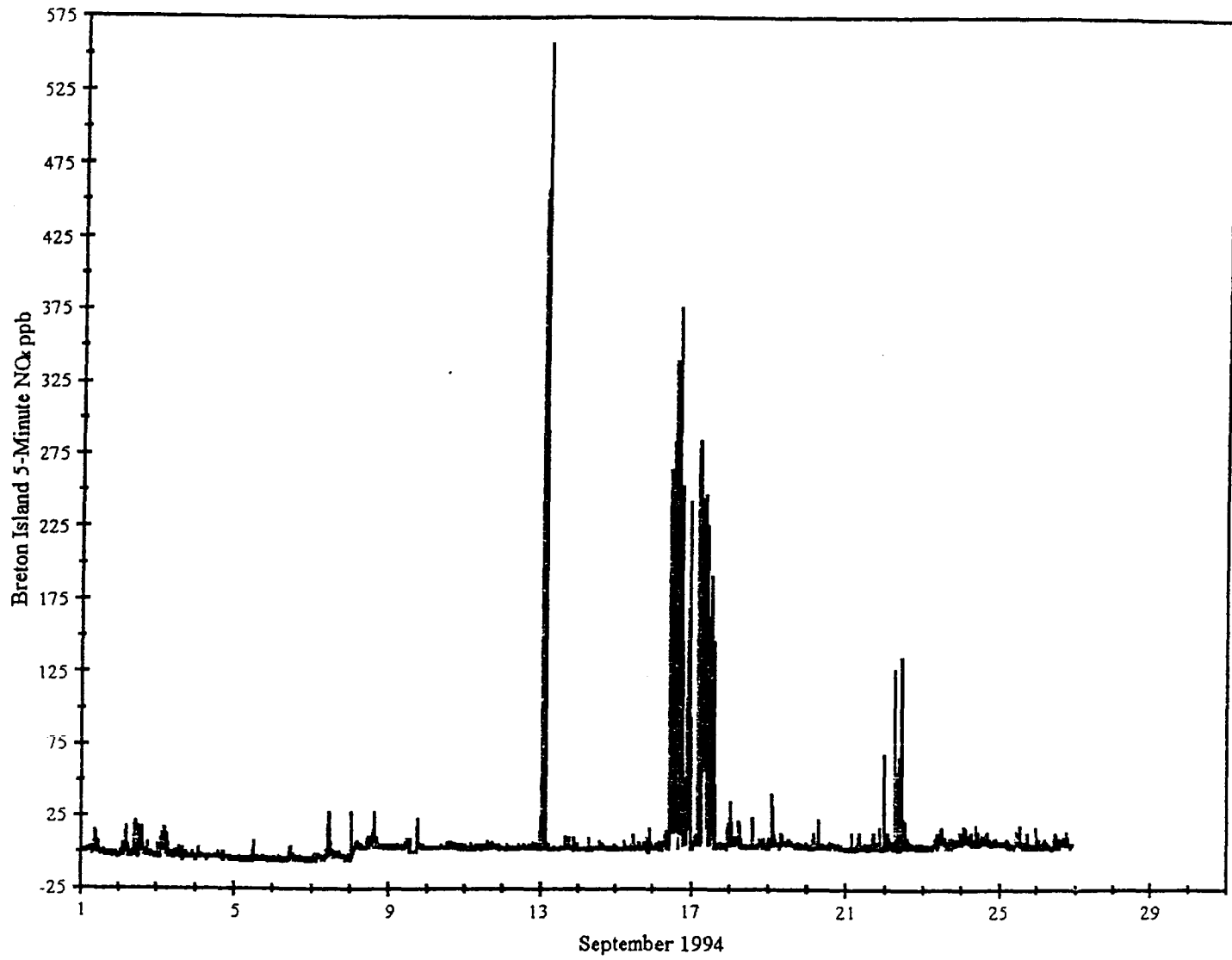


Figure B-12. September 1994 time series of raw 5-minute NO<sub>x</sub> data at Breton Island. Hourly averaged data are listed in Table B-18.

**Table B-18.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 NO<sub>x</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	1	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	7	2	0	0	0	2	6	3	4	5	9	0	0	0	0	0	0	0	0	0
3	0	0	0	5	6	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	3	6	1	0	0	0	0	0	0	0	0	0	0	0
8	2	Cal	Cal	Cal	3	2	2	1	1	1	2	5	2	4	5	6	3	2	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	2	4	3	2	0	0	0	0	7	2	2	1	1	1
10	0	0	1	1	0	1	0	0	1	0	0	0	1	1	3	2	2	2	1	1	1	0	1	0
11	1	0	0	0	1	0	0	1	1	0	1	1	1	0	1	1	1	2	1	1	0	1	0	0
12	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	2	0	0	0	2
13	3	Cal	Cal	Cal	1	0	0	0	0	0	0	0	0	0	Cal	Cal	2	0	1	0	0	1	0	0
14	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	1	3	1	0	1	2	0	0	1	2	3	0	3	1
16	1	1	1	1	0	1	3	5	9	2	47	88	92	261	119	152	57	108	35	18	16	81	124	17
17	1	3	4	112	113	130	131	131	153	78	9	81	70	43	11	2	2	3	2	2	2	2	4	6
18	10	7	3	4	5	8	5	2	1	1	1	2	2	3	4	2	2	2	3	3	3	3	1	1
19	2	3	6	14	4	3	3	2	8	4	4	3	4	5	4	2	2	2	3	2	2	1	2	2
20	2	1	1	1	2	2	2	4	1	2	1	1	2	3	2	3	2	2	2	2	1	1	0	0
21	0	0	0	1	1	0	0	2	3	0	0	1	1	1	1	1	1	2	2	1	2	0	0	15
22	0	2	2	4	3	1	33	1	1	11	38	4	4	3	4	2	3	1	1	2	1	1	1	1
23	1	1	1	1	1	1	2	4	5	2	4	10	6	6	2	2	3	2	4	3	3	4	5	4
24	4	9	10	7	6	6	6	3	2	6	4	3	5	7	5	7	7	4	3	3	4	3	3	5
25	3	3	3	4	4	3	2	2	2	2	4	6	4	8	3	2	2	7	3	2	2	2	1	3
26	4	3	2	2	3	4	1	1	1	1	2	5	4	2	4	5	4	5	5	4	3	2	2	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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Cal - Calibration  
 Maximum Concentration 261 ppb on 16 September @ 1300UTC

QD - Questionable Data

Miss - Monitor Offline

**Table B-19.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 Air Temperature °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	29.8	27.8	27.9	27.7	27.6	27.6	27.6	27.5	27.1	27.0	27.2	27.0	27.4	27.9	27.8	28.3	28.3	28.7	29.0	29.3	30.1	29.9	29.2	29.6
2	28.7	28.7	27.5	28.0	27.9	27.7	27.7	27.9	28.1	28.0	27.9	27.8	27.8	28.2	27.8	27.9	28.1	28.3	29.5	29.2	29.7	29.4	29.7	29.4
3	29.1	26.4	26.2	26.9	27.7	27.0	27.0	27.2	27.2	27.2	27.3	27.1	26.9	27.2	27.2	27.0	27.2	27.2	27.3	27.7	27.5	27.9	28.5	29.2
4	28.7	28.9	29.0	28.3	27.5	27.5	27.2	27.0	26.9	26.7	26.6	26.5	26.8	27.0	27.1	26.9	26.5	26.7	26.7	26.6	26.5	26.4	26.5	26.4
5	26.0	26.1	26.3	26.4	26.4	26.5	26.4	26.3	26.4	26.2	26.3	26.3	26.3	26.7	26.9	27.4	27.4	27.5	27.5	27.7	28.0	27.6	27.4	27.5
6	26.9	26.7	26.8	26.9	26.8	26.7	26.7	26.6	26.5	26.4	26.3	26.2	27.5	28.6	28.3	28.6	28.7	28.3	28.8	28.6	28.6	28.6	28.9	28.3
7	27.9	27.6	27.7	28.0	27.6	27.4	27.2	27.0	27.0	27.0	27.0	27.1	27.5	28.1	27.8	28.1	28.3	28.8	29.0	29.1	29.1	29.2	29.1	28.9
8	28.2	28.0	Cal	Cal	Cal	Cal	27.9	27.8	27.5	27.5	27.5	27.5	27.5	28.7	28.3	27.4	26.2	28.9	28.4	28.8	28.8	28.8	28.9	28.5
9	28.0	27.9	27.9	27.9	27.9	27.9	27.8	27.7	27.6	27.5	27.4	27.1	27.4	29.8	28.4	28.9	28.6	28.7	28.7	29.0	29.3	29.0	29.0	28.4
10	28.3	28.1	28.1	28.0	28.1	28.1	28.1	28.1	28.0	28.0	27.9	27.9	28.0	28.2	27.1	27.2	26.9	28.1	28.2	28.0	28.1	28.6	28.5	27.9
11	28.0	27.9	27.9	26.8	27.3	27.4	27.5	27.6	27.7	26.3	27.6	27.6	27.7	27.7	27.3	27.6	27.5	27.9	28.0	27.5	27.5	27.7	27.5	27.2
12	27.3	27.5	27.5	27.6	27.4	27.5	27.2	27.3	27.4	27.5	27.5	27.6	27.4	28.1	27.1	27.7	27.3	27.4	27.0	26.8	27.0	27.8	28.0	27.8
13	27.7	27.7	27.7	27.7	28.0	27.9	27.9	27.9	27.9	27.9	27.6	27.7	27.9	27.7	27.4	Cal	Cal	26.2	26.9	27.7	25.1	25.6	27.8	27.9
14	27.8	27.7	27.6	27.7	27.7	27.8	27.7	27.7	27.7	27.7	27.8	27.7	27.5	27.7	27.7	27.6	27.5	27.3	27.2	26.9	26.9	27.2	26.7	26.7
15	26.7	26.1	25.3	24.9	25.3	25.8	25.3	26.1	25.5	25.8	23.7	25.9	25.0	25.6	26.4	26.2	25.4	23.6	24.7	26.4	27.3	26.8	27.1	27.4
16	27.1	27.2	27.2	27.6	27.5	27.5	27.3	27.2	26.9	27.0	26.8	26.8	27.0	27.9	28.2	28.3	28.4	28.8	29.0	28.8	28.8	28.9	28.8	28.8
17	28.1	27.9	27.7	27.6	27.7	27.5	27.4	27.5	27.3	27.3	27.2	27.0	27.1	27.8	28.1	28.4	27.0	27.9	28.0	28.2	28.6	28.7	28.9	28.7
18	28.0	27.8	27.7	28.0	27.8	27.5	27.6	26.8	26.5	26.2	25.8	25.5	25.3	25.5	25.5	25.5	25.8	25.9	26.2	26.2	27.1	28.3	28.5	28.7
19	28.2	28.0	27.8	27.6	27.5	26.9	26.9	26.6	26.3	26.0	25.7	25.7	25.7	26.0	25.9	26.1	26.2	26.4	26.4	26.7	26.5	26.6	26.7	27.0
20	26.2	26.3	26.3	26.4	26.4	26.1	26.0	25.9	25.9	25.8	25.5	25.6	25.7	26.5	26.8	26.6	26.6	26.8	27.3	26.9	27.0	26.7	26.1	26.5
21	26.1	26.2	26.3	26.7	26.4	26.4	26.3	26.3	25.0	25.7	23.6	24.0	25.5	25.3	23.1	24.2	23.3	24.1	25.9	25.6	26.1	26.3	26.4	25.8
22	25.3	25.8	25.9	26.4	26.4	26.6	24.9	26.5	26.3	26.3	25.9	25.8	25.8	26.5	27.6	26.7	27.2	27.6	28.0	28.9	27.8	26.7	27.3	27.2
23	26.6	26.7	26.8	26.6	26.5	26.1	26.1	26.0	26.1	26.1	24.9	25.1	24.7	24.3	23.4	22.9	23.1	23.2	23.0	23.0	23.4	23.7	23.6	24.1
24	23.6	24.0	23.8	23.7	23.6	23.4	23.6	23.4	22.9	22.7	23.1	23.3	23.4	24.9	24.8	24.7	24.8	24.8	24.8	25.4	26.0	25.7	26.3	26.5
25	25.4	25.5	25.3	25.3	25.1	25.4	25.4	25.4	25.3	25.4	25.4	23.9	23.4	22.5	21.7	22.1	21.8	21.6	22.2	22.2	22.7	23.4	23.7	23.6
26	22.9	22.8	22.7	22.8	22.9	22.6	22.3	22.3	22.1	22.1	22.0	22.0	22.1	22.3	22.2	22.5	22.7	23.2	23.5	24.3	24.6	24.5	24.8	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**Table B-20.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 Pressure mb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1019	1019	1020	1020	1021	1021	1021	1021	1020	1021	1021	1021	1021	1022	1022	1023	1023	1023	1022	1022	1020	1020	1020	1020
2	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1022	1023	1023	1024	1024	1024	1023	1022	1021	1021	1020	1020
3	1021	1022	1022	1022	1023	1022	1022	1022	1021	1021	1021	1022	1022	1022	1023	1023	1023	1023	1022	1022	1021	1021	1020	1020
4	1020	1021	1021	1022	1022	1022	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022
5	1022	1022	1023	1023	1023	1023	1022	1022	1022	1022	1021	1022	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1021	1021
6	1021	1021	1022	1022	1023	1022	1022	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1022	1021	1021	1020	1019	1019
7	1019	1019	1020	1021	1021	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1022	1022	1021	1021	1020	1019	1019	1019
8	1019	1019	Cal	Cal	Cal	Cal	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1020	1019	1019	1018	1018	1018
9	1018	1018	1019	1019	1019	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1020	1021	1021	1020	1020	1019	1018	1018	1019
10	1019	1018	1019	1019	1020	1020	1020	1020	1019	1019	1019	1020	1020	1021	1021	1022	1022	1021	1021	1021	1020	1020	1020	1020
11	1021	1021	1022	1022	1021	1021	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1023	1023	1022	1021	1021	1021	1021
12	1021	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1024	1023	1023	1022	1022	1022	1022
13	1022	1022	1022	1023	1023	1023	1022	1021	1021	1021	1021	1022	1022	1023	1023	Cal	Cal	1024	1023	1023	1022	1022	1021	1021
14	1021	1021	1022	1022	1022	1022	1021	1021	1021	1020	1021	1021	1022	1022	1022	1023	1022	1022	1022	1021	1020	1020	1019	1019
15	1019	1018	1019	1019	1019	1018	1016	1016	1016	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1014	1013	1013	1013
16	1013	1013	1014	1014	1014	1014	1013	1013	1013	1013	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016	1015	1014	1015	1015
17	1015	1016	1016	1017	1017	1017	1016	1017	1016	1017	1017	1017	1017	1018	1018	1019	1019	1019	1018	1018	1017	1017	1016	1016
18	1016	1017	1017	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1017	1016	1016
19	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1019	1019	1019	1019	1018	1019
20	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017
21	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1018	1018	1017	1018	1016	1016	1016	1015	1015	1015
22	1015	1015	1016	1016	1015	1015	1015	1015	1014	1014	1014	1015	1015	1015	1015	1016	1016	1015	1015	1014	1013	1013	1013	1013
23	1013	1013	1014	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1014
24	1014	1014	1015	1015	1015	1015	1015	1015	1014	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1017	1017	1016	1016	1016
25	1016	1017	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1017	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016
26	1016	1016	1016	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1019	1017	1017	1016	1015	1015	1014	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**Table B-21.**  
**CSI Station Breton Island, Louisiana**  
**September 1994 Relative Humidity %**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	71.4	77.8	77.5	81.3	81.3	81.3	81.0	81.7	85.1	82.5	82.2	83.0	79.3	77.2	78.6	72.4	74.0	73.7	74.7	72.5	69.2	71.3	71.5	66.7
2	72.7	74.2	78.8	78.0	77.0	75.0	78.7	77.3	76.8	78.1	78.6	78.6	79.2	78.3	78.9	81.5	80.1	75.8	72.3	72.4	74.5	71.5	70.3	69.4
3	73.7	85.0	84.2	84.0	77.4	85.2	86.3	82.6	85.0	82.5	83.1	81.7	82.9	85.0	82.4	81.0	80.4	79.3	78.4	76.8	77.2	72.4	72.1	70.0
4	68.4	69.2	67.5	74.5	73.7	69.2	72.4	74.5	76.1	75.3	77.5	76.0	72.1	73.3	75.4	75.8	80.4	76.2	74.5	74.4	73.2	72.3	71.8	71.3
5	72.3	72.5	74.5	70.5	72.4	72.2	71.1	73.0	68.9	70.0	71.6	70.6	71.0	68.8	67.5	63.9	67.4	67.2	65.9	67.9	67.0	69.4	71.5	72.5
6	72.5	72.5	73.0	73.5	73.6	73.6	72.7	74.5	74.4	75.0	73.9	75.0	71.7	66.8	65.7	64.6	63.3	64.5	62.7	65.7	65.9	64.4	63.4	63.0
7	65.3	67.0	65.7	64.3	70.9	71.1	73.0	74.8	73.5	74.2	75.8	75.4	71.5	71.2	75.8	74.7	74.3	68.6	67.4	66.8	63.0	67.3	65.4	66.7
8	73.3	75.2	Cal	Cal	Cal	Cal	74.6	74.1	78.2	76.1	75.6	76.9	78.0	75.3	73.3	79.3	80.2	73.7	74.9	71.7	71.7	71.2	70.0	74.5
9	76.3	75.7	77.2	78.2	76.2	77.0	76.8	74.9	75.4	74.9	75.7	76.6	77.2	70.3	75.1	73.9	71.9	74.9	74.7	71.5	72.6	71.2	71.6	71.4
10	69.3	71.3	73.4	76.3	77.2	76.2	74.6	74.8	74.9	74.8	77.7	78.2	79.5	78.5	80.7	78.2	78.7	72.4	69.1	69.7	70.2	65.3	62.8	71.5
11	68.5	69.2	76.1	77.6	77.7	77.3	73.6	80.0	78.4	87.2	75.1	76.5	75.3	79.3	80.5	85.1	81.4	72.5	68.8	76.7	77.2	74.7	77.5	77.6
12	75.9	71.9	74.2	71.4	79.7	75.7	82.5	79.6	78.3	80.8	78.0	76.9	79.1	76.2	81.7	79.0	75.1	77.1	80.7	81.3	80.3	74.0	78.0	77.1
13	76.9	76.6	78.4	78.4	75.0	75.6	74.5	75.6	75.4	77.5	81.0	79.1	78.4	80.2	81.0	Cal	Cal	82.6	77.8	80.3	89.7	93.3	87.5	79.5
14	76.7	74.7	75.8	71.8	73.6	72.5	73.5	72.8	71.4	73.2	70.1	68.1	70.6	68.8	70.4	69.3	69.4	70.8	69.2	78.4	79.0	78.1	81.1	81.6
15	80.2	84.7	83.0	91.8	89.9	88.0	89.6	81.6	93.0	88.1	95.4	88.9	93.5	90.2	86.5	84.6	87.5	96.7	97.5	95.5	84.2	87.8	84.2	82.1
16	86.5	88.0	88.5	83.3	87.1	85.7	87.8	89.7	92.8	91.0	88.5	90.5	86.8	85.0	83.0	82.9	82.9	80.0	76.0	76.3	76.3	76.8	76.7	77.0
17	81.5	82.1	83.8	84.8	83.6	85.1	85.0	83.6	85.3	86.8	84.5	85.2	85.1	82.3	81.4	75.9	83.8	83.8	78.0	78.2	76.6	77.8	75.4	80.3
18	82.7	84.1	85.2	83.5	83.8	86.9	82.4	82.1	85.0	83.6	85.7	83.8	85.6	86.4	86.3	83.3	83.5	81.7	80.5	79.4	76.5	58.6	60.4	61.7
19	62.8	64.6	64.0	66.0	63.0	68.4	66.6	68.5	67.9	70.3	70.9	70.5	68.9	69.9	69.2	66.8	66.0	64.6	62.8	57.2	62.7	60.2	57.7	57.7
20	59.6	58.7	60.1	59.4	58.9	62.1	63.8	64.4	64.7	63.8	66.0	66.6	65.0	66.7	66.1	67.0	65.9	64.9	65.2	72.9	70.1	69.3	77.4	76.2
21	76.9	79.2	77.0	74.8	75.1	78.0	77.6	79.0	82.3	82.9	92.9	93.4	81.7	81.5	86.7	85.3	88.0	90.0	83.9	84.1	81.3	79.8	80.2	82.9
22	84.4	79.8	81.4	79.2	80.5	79.2	79.0	80.5	80.0	80.6	81.9	81.7	85.5	79.3	77.1	82.1	76.6	75.0	70.3	67.4	73.1	74.4	71.4	76.7
23	73.1	77.8	74.8	76.2	76.6	79.8	79.4	80.3	76.7	78.0	86.1	84.4	90.8	88.6	89.4	89.0	85.8	84.3	83.7	83.7	82.2	79.6	80.4	79.2
24	80.9	79.3	71.7	71.5	69.5	69.2	65.7	65.4	68.1	70.9	71.0	73.2	73.9	70.6	70.3	72.1	71.2	70.3	65.6	62.4	61.1	60.2	57.8	57.2
25	55.5	51.5	58.3	58.3	66.0	65.8	66.6	68.0	69.8	69.8	73.0	81.8	81.5	79.1	77.6	72.0	67.5	65.1	58.0	58.5	54.7	54.5	47.5	45.1
26	49.9	50.9	53.5	54.1	52.6	53.9	57.4	55.9	57.0	55.1	53.2	51.7	53.2	53.6	56.2	54.7	55.8	51.9	50.1	47.2	49.4	50.7	49.2	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

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**APPENDIX C**  
**PASS-A-LOUTRE HOURLY DATA**

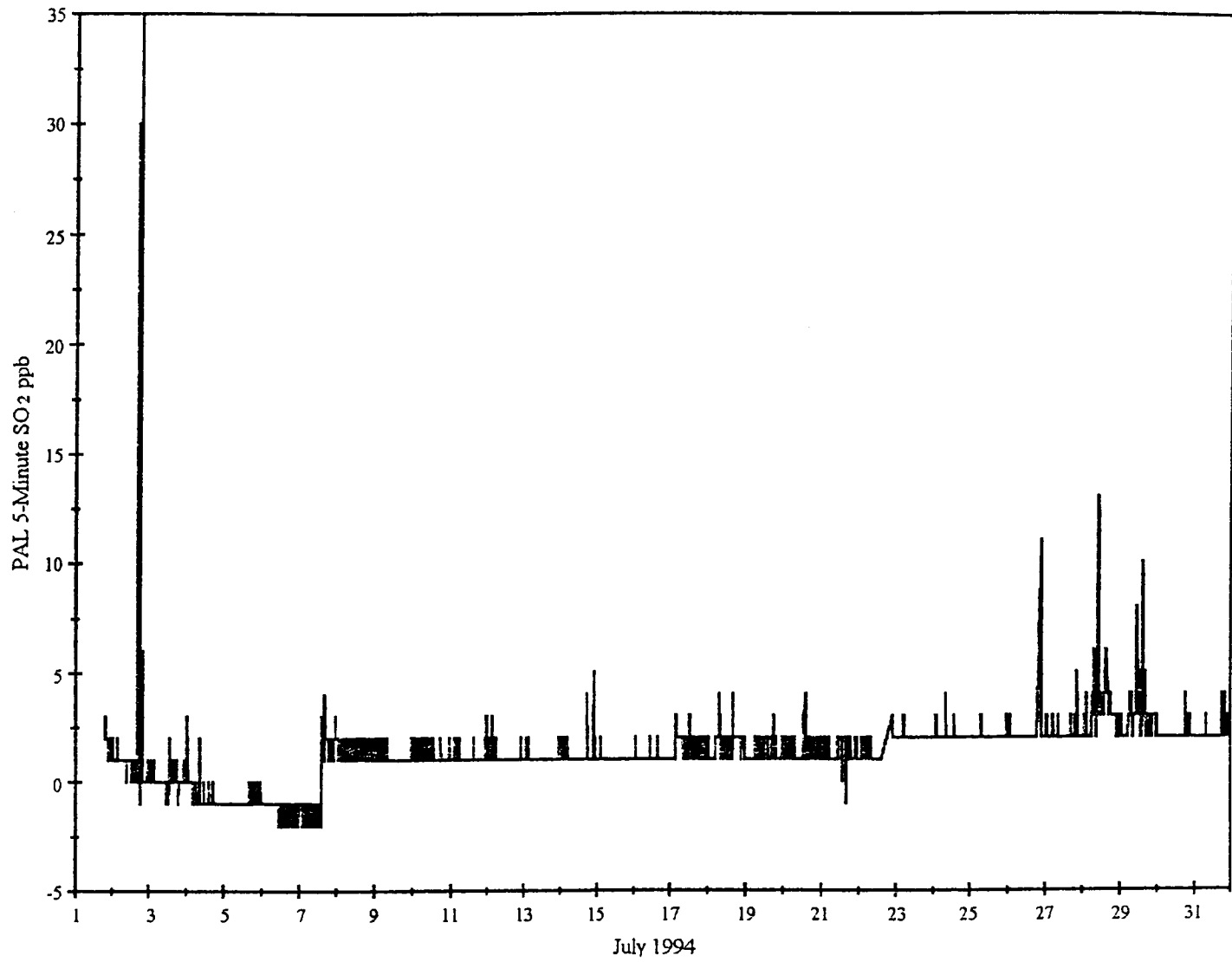


Figure C-1. July 1994 time series of raw 5-minute SO<sub>2</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-1.

**Table C-1.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	1	1	1	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	2
8	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0
9	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	1	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0
18	0	0	0	0	0	1	1	2	1	0	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0
20	0	0	0	1	1	1	1	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0
21	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	0	0
23	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
28	0	0	0	0	0	0	0	2	3	1	7	4	1	1	2	3	2	2	1	1	1	1	1	1	1
29	0	0	0	0	0	0	2	1	1	1	2	3	2	0	3	3	2	0	0	1	1	1	1	1	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

C-4

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 7 ppb on 28 July @ 1000UTC

C-5

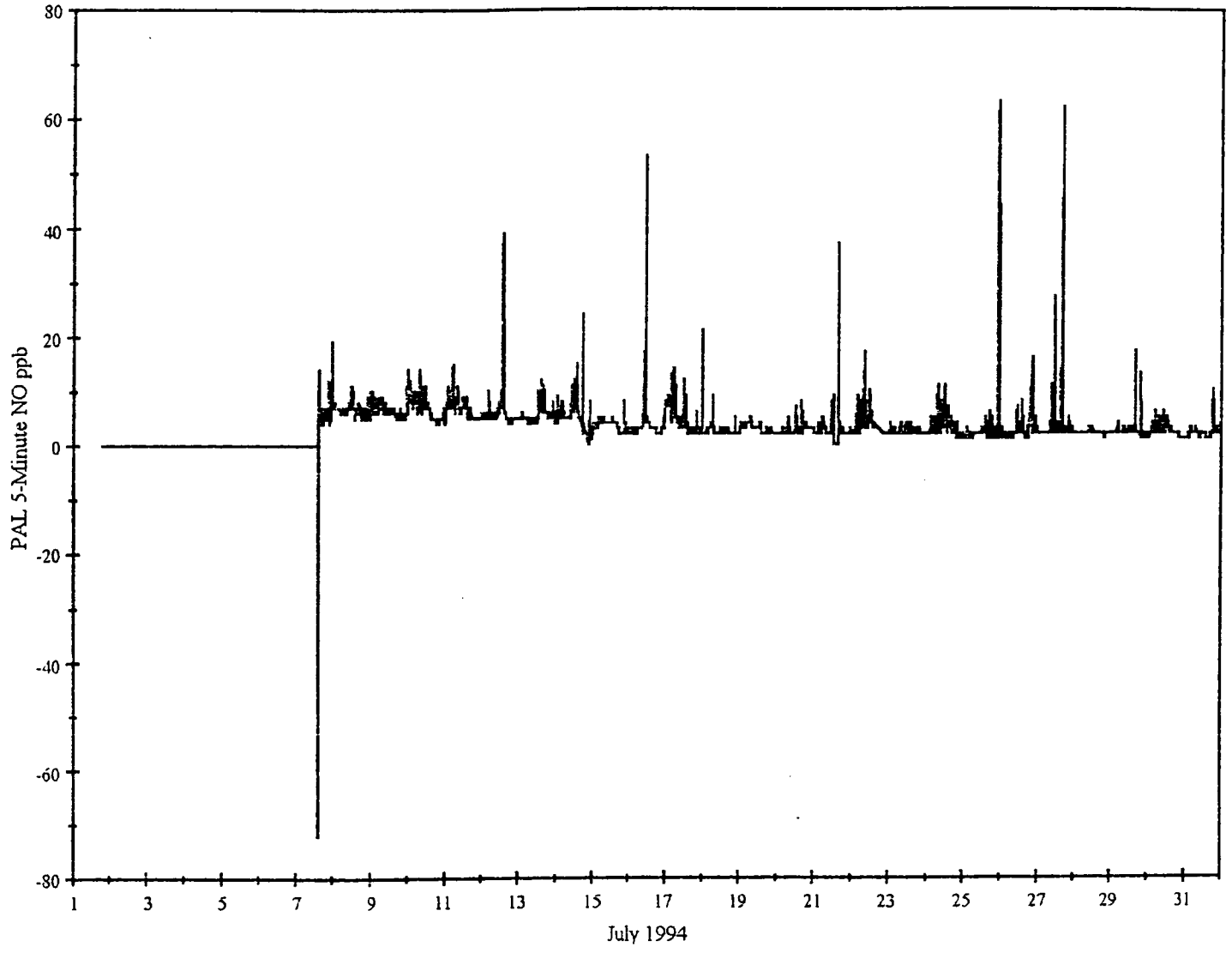


Figure C-2. July 1994 time series of raw 5-minute NO data at Pass-A-Loutre. Hourly averaged data are listed in Table C-2.

Table C-2.  
CSI Station Pass-A-Loutre, Louisiana  
July 1994 NO Concentration ppb

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
2	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
3	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
4	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
5	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
6	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
7	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
8	5	5	5	5	5	4	4	4	5	5	6	5	7	6	4	5	3	3	3	3	3	4	3	11
9	5	6	5	5	5	5	5	5	5	5	5	5	4	4	5	4	4	3	3	4	4	3	3	5
10	7	8	7	7	7	7	6	7	7	5	7	7	6	5	4	4	3	3	3	2	3	3	3	4
11	3	6	6	6	6	8	5	5	7	5	5	6	6	6	5	4	4	3	3	3	3	3	3	3
12	3	4	4	3	5	4	3	4	3	3	4	5	6	13	15	4	3	3	2	2	3	3	3	3
13	3	3	3	3	3	3	3	3	3	2	2	2	5	5	7	5	5	4	3	3	3	3	3	2
14	2	3	4	4	5	4	3	3	3	4	6	7	6	7	4	3	2	7	Cal	Cal	Cal	Cal	1	0
15	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	1	0	0	0
16	0	1	1	1	0	1	1	1	1	4	8	10	2	2	2	1	1	0	0	0	1	0	0	0
17	6	7	6	5	8	7	6	2	2	2	1	1	4	4	1	0	0	0	0	0	1	1	1	3
18	4	0	0	0	1	1	1	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
19	0	1	2	2	2	2	2	2	2	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	1	1	1	0	0	1	4	1	0	1	1	1	2	1	1	1	1
21	1	0	0	1	0	1	2	1	0	0	0	1	4	1	0	0	6	1	0	0	0	0	0	0
22	0	0	0	1	3	1	2	4	2	5	1	2	5	2	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	0	0
23	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0
24	0	0	1	1	1	1	1	1	2	2	3	2	5	2	2	1	2	0	1	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12
27	1	1	1	1	1	1	1	1	1	2	3	12	1	2	2	2	8	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	2	1	1	1	1
30	1	1	1	2	2	2	2	2	2	2	2	2	3	3	2	1	1	1	1	1	1	0	0	0
31	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	4	3	1	1	1	1

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Cal - Calibration  
Maximum Concentration 15 ppb on 12 July @ 1400UTC

Miss - Monitor Offline

QD - Questionable Data

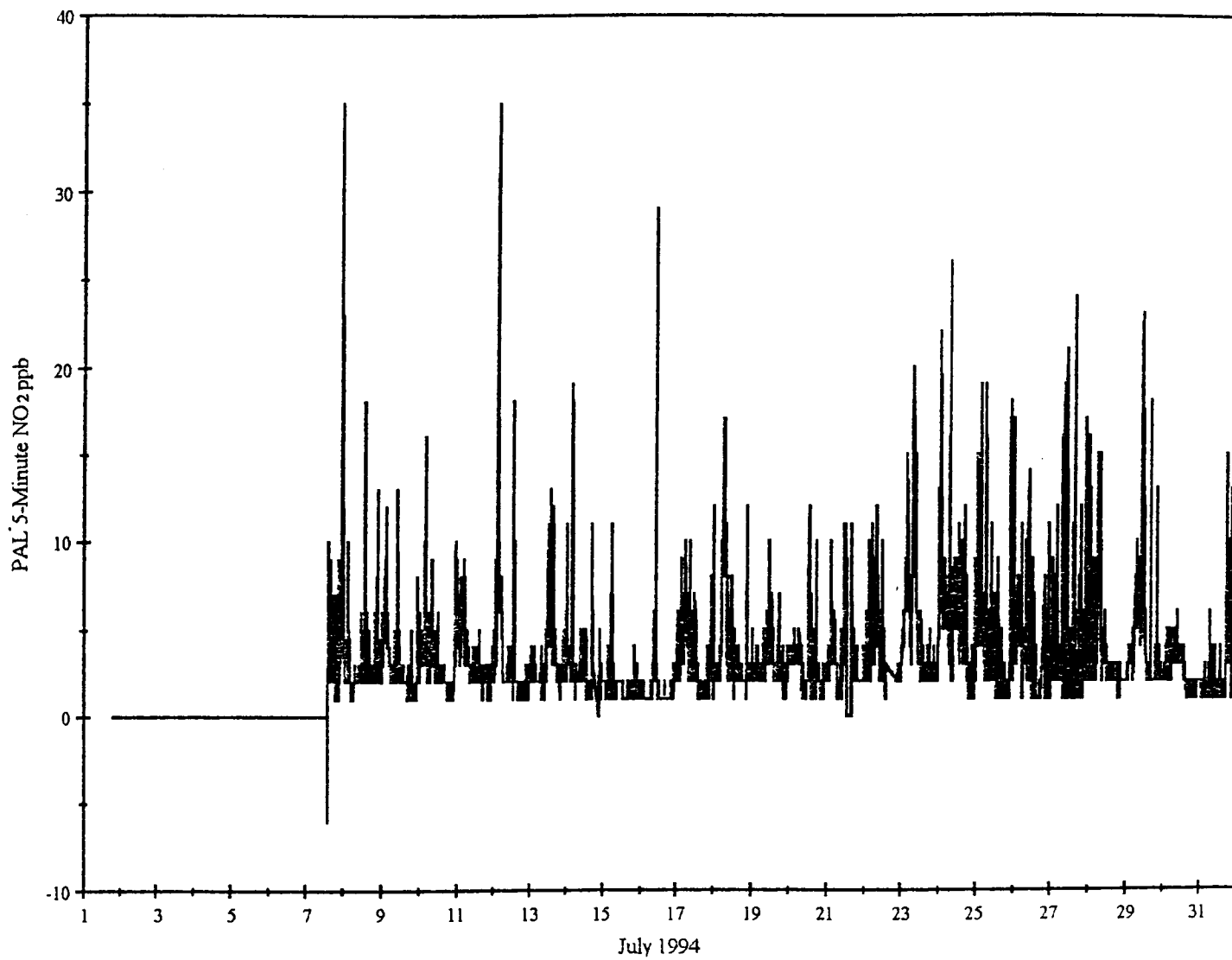


Figure C-3. July 1994 time series of raw 5-minute NO<sub>2</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-3.

**Table C-3.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 NO<sub>2</sub> Concentration ppb**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
2	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
3	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
4	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
5	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
6	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
7	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	2	1	1	1	1	1	1	3	1	23
8	9	1	0	5	1	0	0	0	0	0	1	1	2	1	5	1	2	0	0	0	1	2	5	0	
9	1	2	5	7	3	2	0	0	1	1	4	2	1	0	0	0	0	0	0	1	0	0	0	1	
10	1	2	2	3	5	1	1	2	5	2	1	2	2	0	0	0	0	0	0	0	0	0	0	3	
11	4	4	2	5	4	5	2	2	1	0	0	2	1	1	0	1	0	0	0	0	0	0	0	1	
12	1	2	6	14	6	5	2	0	0	0	0	1	1	1	3	3	0	0	0	0	0	0	0	0	
13	0	1	1	1	0	0	0	0	0	0	0	1	6	4	6	3	3	2	0	0	0	0	1	1	
14	2	3	2	1	10	2	0	0	0	0	2	1	1	1	0	0	0	2	Cal	Cal	Cal	Cal	0	0	
15	0	0	0	0	0	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	1	
17	1	1	0	2	4	2	6	4	1	3	1	2	3	2	0	0	0	0	0	0	0	0	1	0	
18	2	0	0	0	1	5	9	11	4	2	1	2	1	1	1	0	1	0	0	0	0	2	0	0	
19	1	1	1	1	1	1	0	1	1	1	3	3	2	3	1	0	0	1	1	0	0	0	0	2	
20	2	1	2	2	2	1	2	2	1	0	0	0	3	6	1	0	1	1	1	0	0	0	0	0	
21	0	1	1	4	1	3	1	0	0	0	1	7	7	1	0	0	3	2	0	0	0	0	0	0	
22	0	2	1	2	4	3	2	3	4	4	2	1	4	1	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1	2	
23	2	3	4	6	8	8	4	5	12	9	10	3	4	4	2	1	2	2	2	2	2	1	1	2	
24	5	11	11	5	7	5	4	4	7	3	7	7	6	7	4	4	6	4	3	1	1	0	1	2	
25	2	8	5	9	8	3	4	8	2	3	2	3	2	1	3	2	1	1	1	0	0	0	3	9	
26	4	9	3	4	4	4	2	3	3	4	5	6	2	3	2	0	0	0	0	Cal	Cal	Cal	1	2	
27	2	2	2	1	3	4	2	3	5	4	6	15	2	2	1	1	3	1	1	3	2	2	1	5	
28	3	5	4	3	4	4	5	9	10	2	3	3	2	1	2	2	1	1	1	1	1	1	1	1	
29	1	1	2	2	2	2	4	7	7	4	9	15	8	3	1	1	3	1	1	1	2	1	1	1	
30	1	1	2	3	2	2	3	3	3	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	
31	1	1	0	0	1	0	1	2	1	2	1	2	1	0	0	0	0	0	7	7	4	4	5	9	

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 23 ppb on 7 July @ 2300UTC

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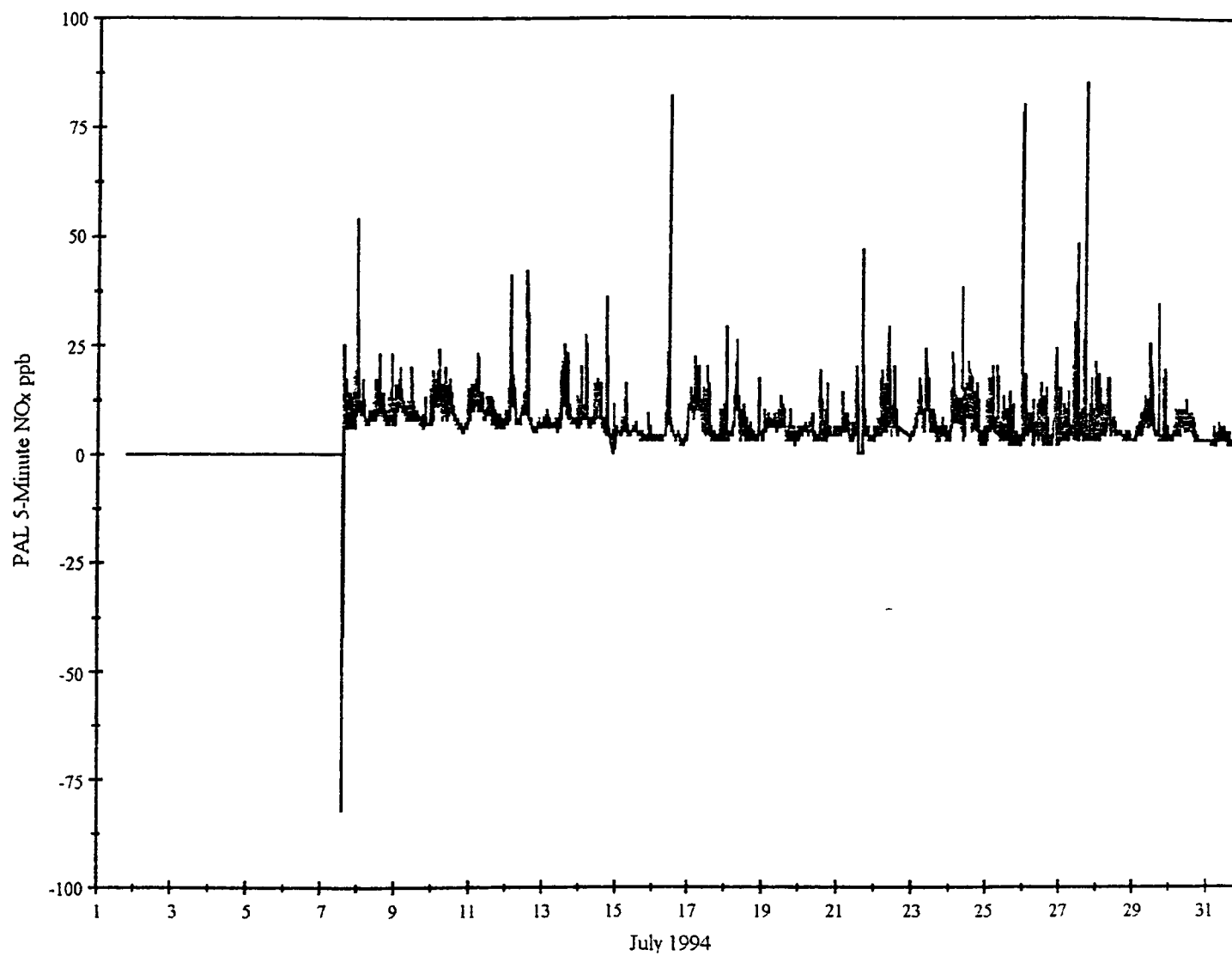


Figure C-4. July 1994 time series of raw 5-minute NO<sub>x</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-4.

**Table C-4.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 NO<sub>x</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
2	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
3	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
4	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
5	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
6	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
7	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
8	16	8	7	12	7	5	4	5	6	5	7	7	10	9	10	7	9	6	6	5	5	8	5	35
9	7	9	11	13	9	8	7	6	7	7	10	8	7	6	6	5	5	4	4	6	4	4	4	7
10	9	10	10	12	13	9	8	10	13	8	9	10	9	7	5	5	4	3	3	2	3	4	4	8
11	9	11	9	12	12	14	8	8	8	6	6	9	9	8	6	5	5	4	4	4	3	4	4	6
12	5	7	11	19	12	11	6	4	4	4	7	7	8	15	18	4	4	3	3	3	3	3	3	4
13	4	4	5	5	4	3	3	4	3	3	3	4	11	10	15	10	9	6	4	4	4	4	5	5
14	5	7	7	7	16	7	4	4	4	5	9	9	8	8	4	3	3	10	Cal	Cal	Cal	Cal	1	0
15	2	2	2	3	2	5	10	3	1	1	2	3	3	2	1	1	1	0	0	0	1	0	0	0
16	1	1	1	0	0	0	0	1	1	5	11	16	3	2	1	1	1	0	0	0	0	0	0	5
17	7	9	7	8	14	10	14	8	4	5	3	5	9	7	1	0	1	0	1	0	2	1	2	1
18	6	1	1	1	2	7	11	15	5	2	2	3	3	2	2	1	3	1	0	0	0	3	1	1
19	1	3	3	4	3	4	4	4	4	3	5	5	4	6	2	0	0	1	2	1	1	0	0	2
20	2	2	2	3	3	2	3	4	3	1	0	0	5	11	2	0	2	2	3	2	1	1	2	1
21	1	2	2	6	2	5	4	1	0	1	1	8	13	2	0	0	9	4	1	1	0	0	0	1
22	1	3	3	4	8	5	4	8	7	11	4	4	9	4	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1	2
23	2	4	5	7	8	8	5	5	12	9	10	4	4	5	2	1	2	2	2	3	1	1	1	1
24	4	10	11	6	8	6	5	5	8	5	10	9	11	9	6	5	7	5	3	0	1	0	0	2
25	2	8	4	8	7	2	4	7	1	3	1	3	2	1	3	2	1	2	0	0	0	0	10	20
26	3	9	3	3	3	3	2	2	2	3	5	6	1	3	4	0	0	0	0	Cal	Cal	Cal	3	4
27	4	4	4	3	5	6	4	5	7	7	10	29	4	5	4	5	12	3	2	5	5	4	3	7
28	4	7	6	5	5	6	7	11	12	4	6	5	4	4	3	3	3	3	2	2	2	3	2	2
29	2	2	4	4	4	5	6	9	9	6	12	18	11	5	3	3	6	2	2	3	4	2	2	2
30	2	2	4	6	5	6	6	6	6	6	7	6	6	6	5	4	2	2	2	2	2	2	2	2
31	2	2	1	2	3	2	2	4	3	3	2	4	3	2	2	1	2	2	12	11	6	7	7	12

Cal - Calibration  
 Maximum Concentration 35 ppb on 7 July @ 2300UTC

QD - Questionable Data

Miss - Monitor Offline

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**Table C-5.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	4.0	3.1	3.6	2.3	
2	2.0	2.0	1.5	1.3	1.7	1.8	0.8	0.4	0.4	0.4	0.5	0.6	1.7	3.9	4.6	5.6	6.5	6.7	7.0	6.2	7.0	6.0	4.7	4.5	
3	3.6	2.5	2.1	2.3	2.4	2.2	1.3	1.2	2.0	2.1	2.2	1.5	2.1	2.0	4.1	4.8	4.3	4.5	3.9	2.6	0.9	1.0	0.4	2.0	
4	3.4	2.7	2.4	3.1	2.0	3.4	3.6	3.9	3.7	3.9	3.8	3.3	1.8	3.0	3.9	3.4	2.4	1.7	3.2	3.9	4.0	3.9	3.8	4.3	
5	3.0	3.1	2.8	3.0	3.9	4.0	3.2	3.8	1.8	2.1	2.7	2.3	4.4	2.5	2.3	3.1	3.6	4.2	3.5	3.5	3.3	3.2	2.2	2.0	
6	2.4	2.4	1.3	1.2	2.0	2.4	3.1	3.5	3.4	3.1	2.6	2.4	2.4	2.1	2.3	2.5	2.2	1.4	2.3	3.2	3.8	3.7	4.0	3.7	
7	2.5	2.1	2.7	2.2	2.4	3.7	4.0	4.9	4.0	4.6	4.5	4.2	4.5	3.6	4.2	4.0	4.6	1.3	1.7	2.2	1.8	3.3	3.1	0.5	
8	0.6	0.5	1.1	4.3	5.5	5.0	4.3	2.7	1.6	2.3	1.4	2.1	0.4	3.2	5.2	2.4	1.5	4.3	4.1	2.7	2.4	0.5	0.8	0.3	
9	0.2	0.4	0.8	1.0	0.7	1.2	1.9	1.3	1.3	1.5	1.8	1.6	1.8	3.7	4.8	5.5	5.6	4.6	4.9	1.7	4.7	3.6	3.1	1.4	
10	0.1	0.4	0.6	0.9	1.3	1.2	0.5	0.4	0.5	0.7	0.4	0.4	0.9	3.4	3.7	3.6	4.0	5.2	5.2	4.7	3.4	3.3	1.6	5.7	
11	2.7	1.5	1.5	2.2	2.5	1.0	0.8	1.2	0.5	1.5	1.1	1.2	1.5	2.6	3.0	1.9	1.7	2.8	5.2	5.0	4.7	4.8	4.9	4.1	
12	2.4	3.0	1.2	1.7	0.2	1.4	2.8	3.2	1.6	2.2	1.8	1.3	1.0	2.3	2.4	3.1	3.9	4.1	7.0	3.6	4.9	5.7	5.9	3.9	
13	2.9	1.8	1.9	3.2	4.4	5.5	4.9	4.2	4.2	5.5	4.7	5.2	0.3	0.5	0.3	4.1	3.5	3.0	5.0	5.8	5.3	4.8	4.8	5.2	
14	4.5	3.6	2.4	1.2	2.0	3.1	2.8	2.6	2.1	0.6	0.6	0.7	0.6	1.9	4.5	4.1	3.7	4.3	Cal	Cal	Cal	Cal	Cal	0.9	
15	0.9	0.5	0.1	0.0	0.0	0.2	0.6	0.7	1.8	1.0	0.3	0.1	0.5	2.0	2.4	2.2	2.2	3.3	4.3	Cal	Cal	Cal	Cal	0.9	
16	0.6	0.1	0.5	0.7	1.2	0.3	0.7	0.9	0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.9	1.1	2.6	2.8	2.3	2.5	2.2	
17	2.5	1.7	0.4	0.0	0.1	0.0	0.0	0.1	0.1	0.9	1.0	0.7	0.7	1.0	1.1	2.0	2.4	1.4	0.8	0.5	0.9	1.2	1.7	0.1	
18	0.0	0.1	0.0	0.0	0.0	0.0	1.0	1.0	1.6	0.8	0.9	0.7	1.8	3.4	2.6	2.7	3.2	2.2	0.8	0.2	0.5	1.3	0.2	4.6	
19	0.1	0.5	0.2	0.0	0.0	0.0	0.1	0.0	1.7	0.7	0.1	0.0	0.0	0.0	3.6	4.5	2.7	1.2	0.3	0.0	0.4	2.9	1.7	0.2	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	0.9	0.0	0.0	0.2	0.1	0.0	1.4	0.6	1.7	2.4	2.5	1.9	2.1	
21	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.2	0.4	0.9	2.2	1.9	2.1	1.7	3.0	3.9	3.7	2.1	2.3	1.7	
22	0.5	0.2	0.4	0.1	0.2	1.0	0.8	0.9	1.6	1.2	1.6	0.3	0.9	2.9	6.9	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	2.7	1.9
23	0.2	0.0	0.0	0.2	0.8	1.2	0.3	1.4	1.4	0.6	0.8	1.3	1.8	1.4	4.4	4.6	2.6	2.3	2.5	0.2	0.4	2.2	4.3	5.6	
24	3.7	0.6	0.0	0.0	0.0	0.0	0.1	0.0	1.6	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.8	1.8	2.9	2.7	3.0	3.5	3.3	3.2	
25	2.5	2.1	3.0	2.5	2.0	1.9	1.8	1.9	1.6	1.4	0.1	1.7	2.7	3.6	3.2	3.9	3.4	2.9	3.5	4.0	4.1	4.3	4.2	3.8	
26	3.6	3.5	2.4	0.3	3.6	3.2	3.5	2.8	2.2	3.1	2.6	2.6	4.6	1.5	2.2	4.6	5.2	5.0	4.6	Cal	Cal	Cal	Cal	4.5	4.1
27	4.2	3.6	2.6	3.6	3.9	3.0	3.8	6.1	4.9	5.2	6.5	6.8	6.4	6.8	7.5	7.0	7.1	7.1	3.9	4.3	5.9	6.0	4.8	4.0	
28	4.1	3.4	2.1	1.0	2.4	3.6	2.7	3.5	3.9	4.3	3.5	3.4	3.5	3.7	3.6	2.6	1.2	2.0	3.1	2.3	1.7	1.0	0.2	0.5	
29	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	1.2	0.7	1.9	2.1	1.9	1.4	1.7	2.8	2.9	2.3	2.8	2.7	1.8	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	1.9	2.2	2.0	1.6	1.5	0.3	
31	0.0	0.0	0.3	0.0	0.0	0.9	0.1	0.0	0.6	1.8	0.9	0.9	0.2	1.0	3.1	5.1	1.9	0.4	0.5	0.3	1.1	3.3	3.7	1.2	

Maximum Speed 7.5 m s<sup>-1</sup> from 246° on 27 July @ 1400UTC

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**Table C-6.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 Wind Directions**

Day	Hour UTC																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	106	107	104	111
2	83	85	97	106	113	113	99	67	56	30	33	24	46	47	50	45	66	69	75	67	73	75	72	78	
3	72	45	35	22	32	49	26	6	353	349	351	345	337	336	340	333	345	343	339	347	336	306	238	199	
4	214	208	190	192	200	211	214	212	209	221	226	231	254	238	221	259	272	275	246	229	211	199	195	193	
5	193	189	175	170	179	193	200	210	229	209	204	209	213	202	200	191	203	207	201	208	207	200	194	190	
6	221	220	215	181	158	166	181	188	192	191	217	233	233	237	252	246	242	209	213	203	195	206	204	213	
7	204	200	197	173	172	172	174	187	195	208	213	207	220	221	220	228	275	328	93	197	111	186	224	324	
8	6	19	127	158	160	164	164	154	149	164	148	170	143	154	141	120	129	121	140	160	236	289	137	116	
9	47	93	79	95	105	120	111	121	130	125	134	123	125	132	132	122	129	155	138	142	166	174	181	130	
10	165	38	72	95	98	97	129	112	115	149	142	142	148	152	161	158	154	150	169	170	171	176	180	331	
11	329	19	87	87	86	94	116	114	105	118	114	113	114	122	122	184	155	176	195	191	184	169	161	161	
12	186	179	209	301	335	130	150	156	164	165	166	172	148	174	186	190	190	186	170	179	160	163	165	172	
13	173	178	166	156	162	168	171	171	178	213	226	265	267	61	290	277	185	190	175	167	164	171	192	200	
14	199	178	147	141	132	144	166	164	159	158	148	154	152	152	152	157	145	141	Cal	Cal	Cal	Cal	Cal	175	
15	149	143	131	132	130	132	130	153	157	156	148	174	157	169	165	168	134	132	145	164	190	205	196	208	
16	189	167	150	148	146	162	154	159	158	158	158	158	153	170	232	221	228	196	110	77	126	174	197	187	
17	176	178	177	229	208	230	255	239	238	218	231	229	249	258	252	293	300	295	286	279	271	265	72	91	
18	91	164	164	164	164	164	245	244	240	255	258	267	307	323	343	353	359	348	331	334	191	103	91	223	
19	126	27	102	66	66	66	159	159	227	235	259	240	223	223	274	295	337	335	339	316	240	218	228	253	
20	253	253	253	253	253	253	253	253	185	222	214	173	274	268	305	298	332	106	124	163	193	194	216	255	
21	241	244	241	197	197	197	197	194	207	222	222	250	241	229	228	227	235	222	207	234	256	263	260	241	
22	182	194	195	245	242	221	217	230	220	231	266	52	304	270	273	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	295	358
23	1	1	201	173	213	222	225	223	227	227	252	271	289	294	297	321	30	353	53	138	183	196	208	221	
24	225	236	230	230	230	230	358	358	304	304	304	304	6	330	149	171	203	213	241	258	262	255	251	238	
25	237	219	224	223	218	213	219	221	217	272	222	301	295	287	297	295	288	279	265	251	238	254	240	236	
26	228	226	236	259	220	225	221	224	228	224	238	226	220	198	239	260	265	256	238	Cal	Cal	Cal	Cal	237	234
27	224	227	216	219	222	227	218	221	234	232	228	232	238	245	246	250	269	290	264	256	233	239	237	236	
28	238	245	260	274	313	317	310	323	336	359	8	12	17	13	17	25	16	347	357	348	336	316	354	351	
29	357	1	1	1	1	1	1	1	1	337	340	347	348	354	353	11	30	28	57	69	67	79	76	89	
30	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	0	356	29	67	100	100	93	100	125	130
31	105	105	158	160	160	145	88	249	36	327	104	342	62	358	277	169	151	343	240	273	247	234	233	228	

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**Table C-7.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 Pressure mb**

		Hour UTC																							
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
2	1017	1017	1018	1018	1017	1017	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1017	1017	1017	1017	1016	1016	1015	1015	1015
3	1015	1015	1015	1016	1015	1015	1015	1015	1015	1015	1015	1016	1016	1017	1018	1018	1019	1019	1019	1018	1018	1017	1017	1017	1017
4	1017	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1020	1021	1022	1021	1022	1022	1022	1022	1021	1021	1021	1021	1021
5	1021	1021	1021	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1019	1019	1018
6	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1019	1019	1018
7	1018	1018	1018	1019	1019	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020
8	1020	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1022	1022	1023	1024	1023	1024	1024	1024	1024	1023	1023	1023	1023	1023
9	1024	1024	1024	1024	1025	1025	1025	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1024
10	1024	1024	1024	1025	1025	1025	1024	1024	1024	1023	1023	1023	1024	1024	1025	1025	1024	1024	1024	1024	1023	1023	1023	1023	1023
11	1024	1023	1024	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1023	1022	1022	1022	1022	1022	1022
12	1022	1022	1021	1021	1022	1022	1022	1022	1022	1021	1021	1021	1021	1022	1023	1023	1023	1023	1022	1022	1022	1021	1022	1021	1021
13	1021	1021	1021	1022	1022	1021	1022	1022	1021	1022	1022	1024	1023	1023	1024	1025	1024	1024	1024	1024	1024	1023	1022	1022	1022
14	1022	1023	1023	1023	1023	1023	1023	1023	1022	1022	1023	1024	1024	1025	1025	1025	1025	1025	Cal	Cal	Cal	Cal	Cal	Cal	Cal
15	1024	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1025	1026	1026	1026	1027	1027	1027	1026	1026	1025	1025	1025	1025	1025
16	1025	1025	1025	1025	1026	1025	1025	1024	1024	1024	1025	1025	1026	1026	1026	1026	1026	1026	1026	1025	1025	1024	1024	1024	1024
17	1024	1023	1024	1024	1025	1024	1025	1024	1024	1023	1023	1024	1024	1025	1025	1026	1026	1026	1026	1025	1024	1024	1024	1024	1023
18	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022	1023	1024	1024	1024	1024	1024	1024	1024	1023	1022	1021	1021	1021	1021
19	1022	1021	1021	1021	1022	1022	1021	1021	1021	1020	1020	1021	1021	1022	1022	1023	1023	1023	1023	1022	1021	1021	1021	1021	1021
20	1020	1021	1021	1022	1022	1022	1022	1022	1021	1021	1021	1021	1022	1022	1023	1023	1024	1024	1024	1023	1022	1022	1022	1021	1021
21	1021	1022	1022	1022	1023	1022	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1023	1022	1021	1021
22	1021	1021	1022	1022	1023	1023	1022	1022	1021	1021	1021	1022	1022	1022	1023	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1019
23	1019	1019	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1022	1023	1022	1021	1020	1020	1020	1020	1020
24	1019	1019	1020	1020	1020	1020	1020	1019	1019	1019	1020	1020	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020
25	1020	1020	1020	1020	1021	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019
26	1019	1019	1019	1020	1020	1019	1019	1018	1018	1018	1019	1019	1019	1019	1020	1020	1020	1020	1020	1019	Cal	Cal	Cal	Cal	1017
27	1017	1017	1017	1017	1018	1018	1017	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1015
28	1015	1015	1015	1016	1016	1016	1015	1015	1015	1015	1015	1016	1016	1017	1018	1018	1019	1019	1018	1018	1018	1018	1018	1018	1018
29	1018	1017	1018	1018	1019	1020	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1022	1022	1021	1021	1020	1020	1020	1020	1020
30	1020	1021	1021	1021	1022	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1022	1022	1022	1021	1021	1021
31	1020	1021	1021	1021	1022	1021	1022	1021	1021	1021	1021	1021	1022	1022	1023	1023	1024	1023	1022	1022	1023	1023	1023	1023	1022

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**Table C-8.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 Air Temperatures °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	30.2	29.8	29.7
2	28.8	27.7	27.2	26.8	26.8	26.7	27.0	26.4	26.0	26.1	26.1	25.7	27.4	28.7	28.0	27.0	28.3	29.1	29.4	28.8	28.8	28.9	28.8	28.4
3	28.0	27.2	25.9	26.0	26.3	26.1	26.5	26.3	26.2	26.2	26.3	25.9	26.3	27.2	27.8	28.3	28.8	29.3	29.7	30.2	31.2	31.1	32.3	32.2
4	29.5	28.8	28.5	28.4	28.1	27.8	28.0	28.0	27.9	27.9	27.9	27.9	28.3	29.8	28.8	30.1	30.3	30.3	31.1	30.8	30.7	30.6	30.4	30.0
5	29.5	28.8	28.4	28.1	27.8	28.1	28.0	28.0	27.6	27.9	27.8	27.8	28.3	27.0	29.1	29.7	30.2	30.1	30.4	30.6	30.4	30.5	30.7	30.3
6	29.9	29.0	28.6	28.3	28.0	27.5	27.5	27.7	27.7	27.8	27.8	27.8	28.2	29.1	30.0	30.4	31.0	29.6	32.1	30.5	30.1	30.3	30.1	29.6
7	29.2	28.8	28.5	28.5	28.1	28.2	28.2	28.2	28.3	28.3	28.2	28.4	28.5	28.7	29.0	29.3	30.0	26.7	27.8	26.4	23.7	25.0	24.7	24.0
8	24.2	24.6	24.2	24.6	25.5	26.1	26.7	26.6	26.1	26.1	26.7	26.8	26.7	26.6	24.3	24.3	25.2	26.8	26.1	25.8	26.4	26.4	26.8	26.2
9	25.8	25.5	25.3	25.0	25.0	25.3	25.6	25.9	25.8	26.1	26.3	26.3	26.5	27.7	29.0	28.8	28.9	29.0	24.2	26.1	28.1	24.3	23.8	24.2
10	24.9	25.1	25.1	25.0	25.2	25.5	25.7	25.3	25.2	25.5	25.3	25.3	26.7	28.0	28.4	28.5	29.4	29.0	28.6	28.3	28.5	28.5	28.3	26.6
11	24.1	23.8	24.0	24.3	24.6	24.6	24.7	24.8	25.2	25.5	25.8	25.8	26.4	27.3	28.5	25.5	25.5	26.0	26.3	26.7	27.5	27.8	28.0	27.5
12	27.1	27.1	26.6	25.8	25.8	25.5	26.0	26.4	26.1	26.5	26.4	26.6	26.6	28.3	28.8	29.1	29.4	29.6	29.0	25.8	27.2	27.3	27.5	27.3
13	27.1	26.9	26.8	26.4	26.7	26.9	27.1	27.2	27.3	27.5	25.4	23.3	23.3	23.8	24.4	25.2	24.6	24.5	24.9	24.4	24.9	26.0	26.5	27.0
14	26.5	26.3	25.3	24.9	25.1	25.5	25.9	26.1	25.9	26.1	26.0	26.2	26.5	28.0	28.0	28.4	29.0	28.8	Cal	Cal	Cal	Cal	Cal	Cal
15	28.4	27.6	27.0	26.7	26.2	25.9	26.0	25.8	25.9	25.8	25.7	25.6	26.5	28.0	28.2	29.4	30.0	30.0	29.9	29.8	29.8	30.2	29.9	29.5
16	28.8	28.0	27.2	27.1	26.9	26.7	26.4	26.4	26.3	26.0	25.7	25.9	27.0	28.6	29.6	31.3	31.9	32.2	30.8	28.8	30.2	29.9	30.3	29.8
17	29.2	28.3	28.0	27.7	27.5	27.2	26.9	27.2	27.3	27.1	27.1	27.0	27.6	28.8	29.6	29.8	30.0	30.4	30.7	32.1	31.7	31.8	31.1	28.5
18	28.0	27.9	27.7	27.1	27.1	26.7	27.4	27.6	27.5	27.6	27.5	27.5	28.1	28.8	27.5	28.0	29.2	29.8	30.5	31.9	31.9	31.5	30.5	29.9
19	26.3	26.7	26.1	26.0	26.2	26.2	26.6	26.4	26.3	27.6	27.4	27.5	27.8	28.9	29.4	25.2	25.3	26.3	27.2	29.8	30.3	29.5	28.7	28.8
20	28.5	27.7	26.9	26.9	26.4	26.3	26.3	26.6	26.3	26.9	27.4	27.3	27.2	27.9	29.2	29.8	29.9	30.8	29.7	30.1	30.5	30.3	29.9	30.2
21	29.5	28.4	28.1	27.7	26.8	26.9	26.4	26.5	27.4	27.1	27.3	26.9	27.4	28.8	29.2	29.3	30.4	30.9	30.7	30.1	30.6	30.3	30.8	30.2
22	28.2	28.1	27.9	27.8	27.4	27.6	27.4	27.6	27.4	27.6	27.5	24.5	24.8	27.5	27.4	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	28.2
23	27.4	26.0	25.8	26.5	26.2	26.9	26.8	26.7	27.1	26.9	27.1	27.3	27.8	26.9	28.4	28.9	26.7	24.2	23.5	25.2	26.7	27.9	27.4	26.9
24	27.4	27.2	26.8	26.4	26.4	25.9	26.4	26.0	26.2	25.4	25.5	25.5	26.6	28.0	26.5	30.8	30.4	29.9	29.7	30.2	30.1	30.3	30.4	29.8
25	29.2	28.4	28.2	28.0	27.7	27.7	27.6	27.8	27.7	27.3	26.5	26.6	24.5	26.2	27.2	29.0	29.2	29.7	30.2	30.1	30.3	30.4	29.5	29.6
26	29.0	28.8	28.5	27.8	27.7	28.1	27.9	27.9	27.7	27.7	27.6	27.6	27.8	28.2	26.5	29.9	30.0	30.1	30.4	Cal	Cal	Cal	Cal	29.6
27	29.2	28.9	26.9	28.3	28.1	28.1	27.5	28.3	28.4	27.3	28.3	28.4	28.5	28.8	29.6	28.9	27.0	25.3	24.5	25.1	26.7	26.6	26.9	26.7
28	26.7	26.6	25.8	25.9	26.0	25.7	25.5	25.2	25.2	25.1	24.8	24.6	24.7	25.2	25.9	26.7	27.5	27.9	28.0	27.4	27.2	28.2	28.5	28.8
29	27.2	25.7	24.7	24.5	24.2	24.3	24.9	25.2	24.7	24.8	25.0	24.9	25.3	26.4	27.1	28.2	29.2	29.6	29.7	29.7	29.2	28.6	28.6	28.8
30	27.6	26.0	25.6	25.4	25.4	25.1	25.0	24.2	24.3	24.5	24.6	24.4	25.3	28.5	28.1	29.3	31.8	30.3	28.9	28.9	29.1	29.3	28.7	28.5
31	27.7	26.2	26.5	25.9	25.3	25.8	25.1	25.4	25.6	23.5	23.5	23.2	24.0	24.5	22.3	21.8	21.0	22.1	24.3	25.2	25.4	25.2	25.5	25.0

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**Table C-9.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**July 1994 Relative Humidity %**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	54.3	60.5	58.5
2	66.6	73.2	76.1	78.4	78.2	80.8	75.6	77.4	83.8	82.0	83.9	85.6	79.8	74.3	69.8	74.3	76.0	66.7	66.1	69.4	68.5	65.7	66.1	66.7
3	68.3	74.3	85.1	83.7	81.3	84.4	79.2	81.8	82.4	84.9	83.8	81.7	82.0	80.6	76.5	72.4	64.8	67.0	60.0	57.9	53.0	53.4	50.6	49.2
4	65.1	71.2	72.2	72.8	73.1	73.9	74.7	77.2	74.2	75.6	77.6	78.8	74.9	69.4	71.3	65.0	68.4	67.0	62.1	63.3	64.8	65.6	59.4	65.1
5	69.8	73.9	77.6	79.2	81.4	79.2	79.7	79.4	79.5	83.6	79.3	79.7	77.5	71.9	73.9	70.7	61.7	63.9	65.3	64.2	65.1	64.6	63.1	63.1
6	62.4	68.6	74.6	75.7	81.4	83.2	79.3	77.0	76.0	74.7	74.1	74.4	73.4	67.4	63.5	63.2	62.3	70.1	59.9	65.8	69.2	67.9	65.8	67.0
7	68.4	71.7	74.2	74.7	76.4	77.3	77.4	77.2	76.0	76.2	77.4	73.1	74.4	73.3	74.6	71.2	54.2	74.4	73.8	82.3	92.2	90.0	84.8	83.8
8	85.1	91.5	85.9	91.2	88.0	82.5	80.8	81.9	84.6	85.2	82.0	79.7	80.4	83.0	81.2	83.7	80.8	72.8	79.6	78.5	70.2	77.9	75.3	79.8
9	82.5	83.7	88.2	85.7	89.2	87.4	87.3	86.9	84.7	85.6	86.3	82.3	80.2	77.3	69.4	72.1	65.1	70.2	90.6	82.0	78.1	80.4	91.0	90.9
10	86.6	88.2	86.8	89.1	87.5	87.1	88.6	88.1	91.3	91.1	91.9	90.6	84.4	76.5	75.5	71.4	67.6	70.6	73.2	75.2	73.1	72.0	73.9	77.3
11	89.7	90.3	89.7	89.1	89.5	89.4	88.5	87.2	88.1	87.1	84.8	88.2	88.4	84.6	75.4	83.7	86.8	80.5	80.2	79.0	77.0	72.3	66.5	71.0
12	76.7	79.2	80.2	80.3	74.3	78.2	84.4	84.2	86.3	86.1	86.3	81.4	85.6	75.7	73.2	67.1	69.2	68.7	71.6	81.6	75.1	77.0	78.6	79.9
13	78.9	82.2	83.2	86.6	85.6	84.0	82.8	82.4	80.2	81.4	78.5	87.4	83.9	88.3	89.1	79.8	85.5	85.3	85.9	87.0	82.7	77.7	73.8	69.1
14	77.4	71.0	82.1	84.2	83.9	85.5	87.7	84.6	90.6	89.9	90.5	90.1	89.6	81.2	78.9	76.7	70.7	72.9	Cal	Cal	Cal	Cal	Cal	Cal
15	75.4	77.9	82.0	83.5	86.1	85.8	84.6	82.9	83.8	86.1	87.0	87.9	83.4	74.4	72.2	63.9	62.1	62.3	62.0	60.8	57.8	60.7	64.5	63.3
16	65.9	72.8	81.4	81.8	81.0	82.1	83.7	83.3	82.5	86.0	87.3	84.9	79.2	70.2	66.6	62.4	60.1	60.3	62.5	63.2	62.7	63.0	60.2	61.6
17	62.0	68.5	73.3	75.4	76.7	78.7	81.9	78.9	78.5	79.8	80.2	79.6	77.3	71.3	68.0	66.0	62.8	60.7	63.1	55.0	52.7	47.4	53.5	64.2
18	71.8	71.6	72.5	81.0	81.4	80.8	74.3	74.2	77.3	75.1	75.7	74.3	72.7	69.5	76.9	77.2	72.1	64.6	59.6	54.7	54.2	57.8	64.9	70.2
19	66.8	75.7	82.5	83.1	81.8	81.2	81.6	85.2	87.8	78.0	79.7	78.3	79.6	74.3	69.9	80.3	72.2	74.6	67.6	61.7	60.7	66.6	68.5	68.9
20	70.7	74.3	83.8	83.5	82.9	82.2	86.0	82.7	83.0	78.4	74.2	75.8	77.3	74.4	70.4	64.0	59.6	57.8	66.7	60.4	55.1	56.3	60.6	58.1
21	60.1	67.8	71.1	72.6	80.7	80.1	84.4	84.4	74.9	78.1	76.8	79.4	77.5	72.0	68.9	65.0	63.1	59.4	64.3	63.4	60.5	64.4	60.6	63.3
22	69.9	70.7	73.5	74.6	77.5	75.8	79.2	79.2	80.6	80.1	80.2	77.3	81.4	70.9	69.6	Cal	Cal	Cal	Cal	Cal	Cal	Cal	Cal	71.7
23	64.4	74.4	78.5	75.5	79.3	79.3	82.6	84.9	83.1	85.3	85.4	79.4	78.4	73.8	76.4	72.7	81.1	84.2	89.0	80.9	72.2	67.9	75.4	78.1
24	76.4	78.7	81.9	83.2	85.7	88.7	85.4	87.2	84.7	80.7	85.1	81.9	82.8	75.0	78.9	69.2	64.0	66.9	69.2	69.0	64.4	63.8	66.6	65.3
25	64.2	71.2	73.1	76.8	77.9	78.6	81.3	79.6	78.8	80.3	81.4	83.6	78.8	74.1	80.9	68.7	71.7	66.6	65.2	63.7	64.8	62.6	66.7	67.7
26	69.2	69.1	72.5	74.2	78.2	75.2	77.9	76.7	78.5	77.7	77.3	75.8	75.8	68.0	76.5	66.2	65.1	63.4	63.4	Cal	Cal	Cal	Cal	69.1
27	72.5	73.6	82.4	78.9	75.2	78.9	80.6	76.4	76.3	73.7	73.8	70.3	70.4	69.4	65.6	66.5	65.7	86.6	87.5	79.7	78.5	79.0	73.9	78.6
28	78.0	78.5	85.2	84.1	83.4	85.7	85.9	86.2	85.3	80.9	80.8	78.1	79.4	76.3	71.8	67.7	65.7	65.4	62.8	62.9	59.6	53.0	43.8	42.4
29	48.8	56.9	66.3	68.5	74.9	72.8	70.0	67.9	74.1	69.7	69.2	72.6	68.7	71.6	65.7	59.5	49.9	46.9	47.5	45.6	52.3	50.7	51.6	51.8
30	57.5	68.6	73.5	70.2	72.8	73.7	70.5	76.3	78.8	78.9	76.6	83.4	78.0	66.5	54.9	52.1	42.9	49.3	53.4	54.0	51.6	51.4	55.3	53.3
31	57.0	67.5	64.3	73.2	76.0	75.8	81.6	80.7	70.8	86.7	83.4	86.0	89.0	88.4	91.2	86.3	91.7	82.9	79.0	75.6	73.4	75.5	72.2	77.6

C-15

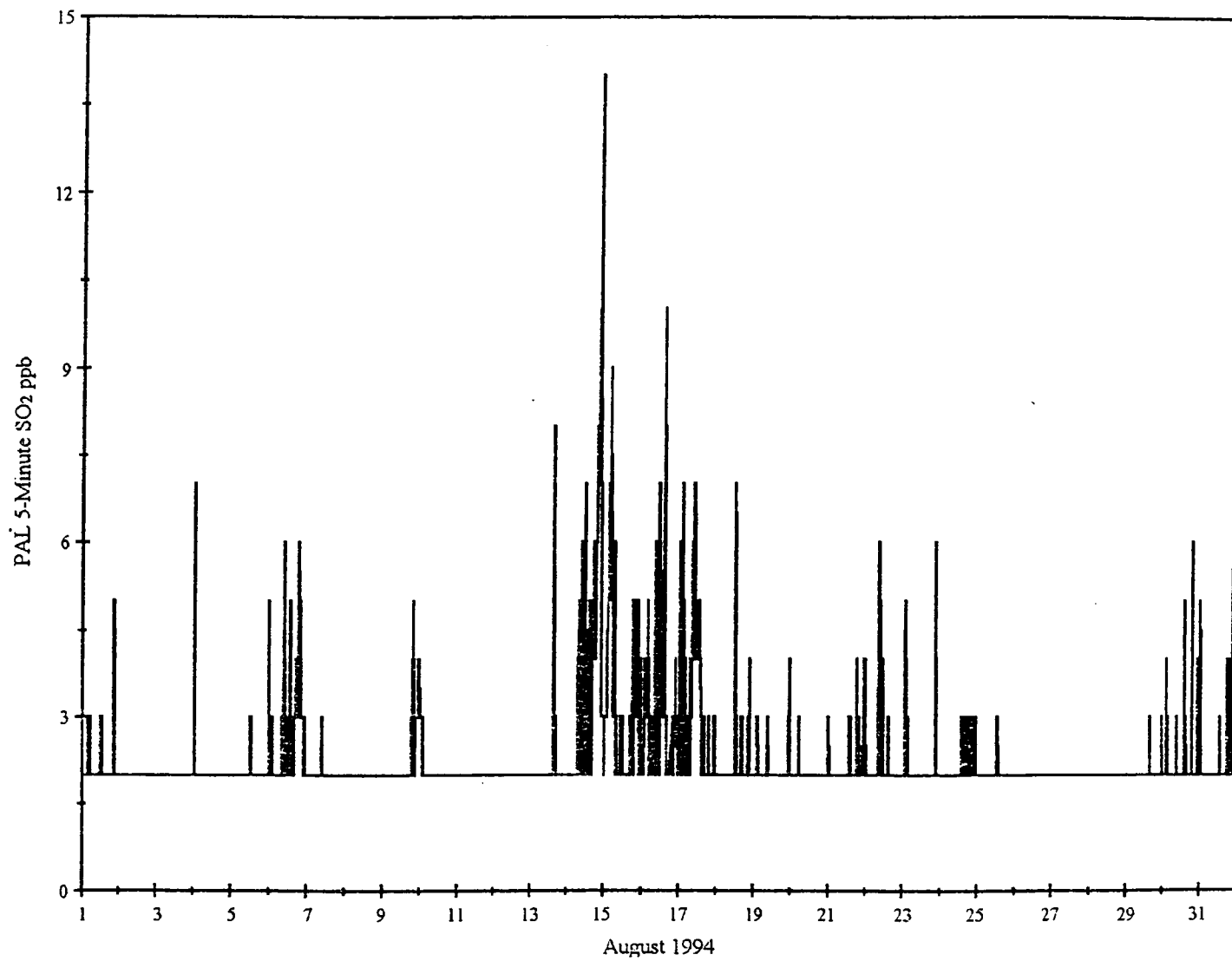


Figure C-5. August 1994 time series of raw 5-minute SO<sub>2</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-10.



**Table C-10.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 SO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	0
6	1	0	0	0	0	0	0	0	0	1	2	1	0	1	1	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1
10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	2	0	1	0	1	1	1	1	1	3	2	4	6	7	3	1
15	1	1	1	4	6	3	2	2	0	0	1	0	1	1	0	0	0	1	1	1	2	1	1	1
16	0	0	1	1	2	0	0	0	1	1	0	2	1	2	4	2	0	0	Cal	Cal	Cal	1	1	1
17	1	1	1	1	1	1	0	1	2	4	3	2	2	3	1	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
22	0	0	0	0	0	0	0	0	2	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0
23	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	1	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	Cal	Cal	1	0	0	0

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 7 ppb on 14 August @ 2100UTC

Miss - Monitor Offline

C-17

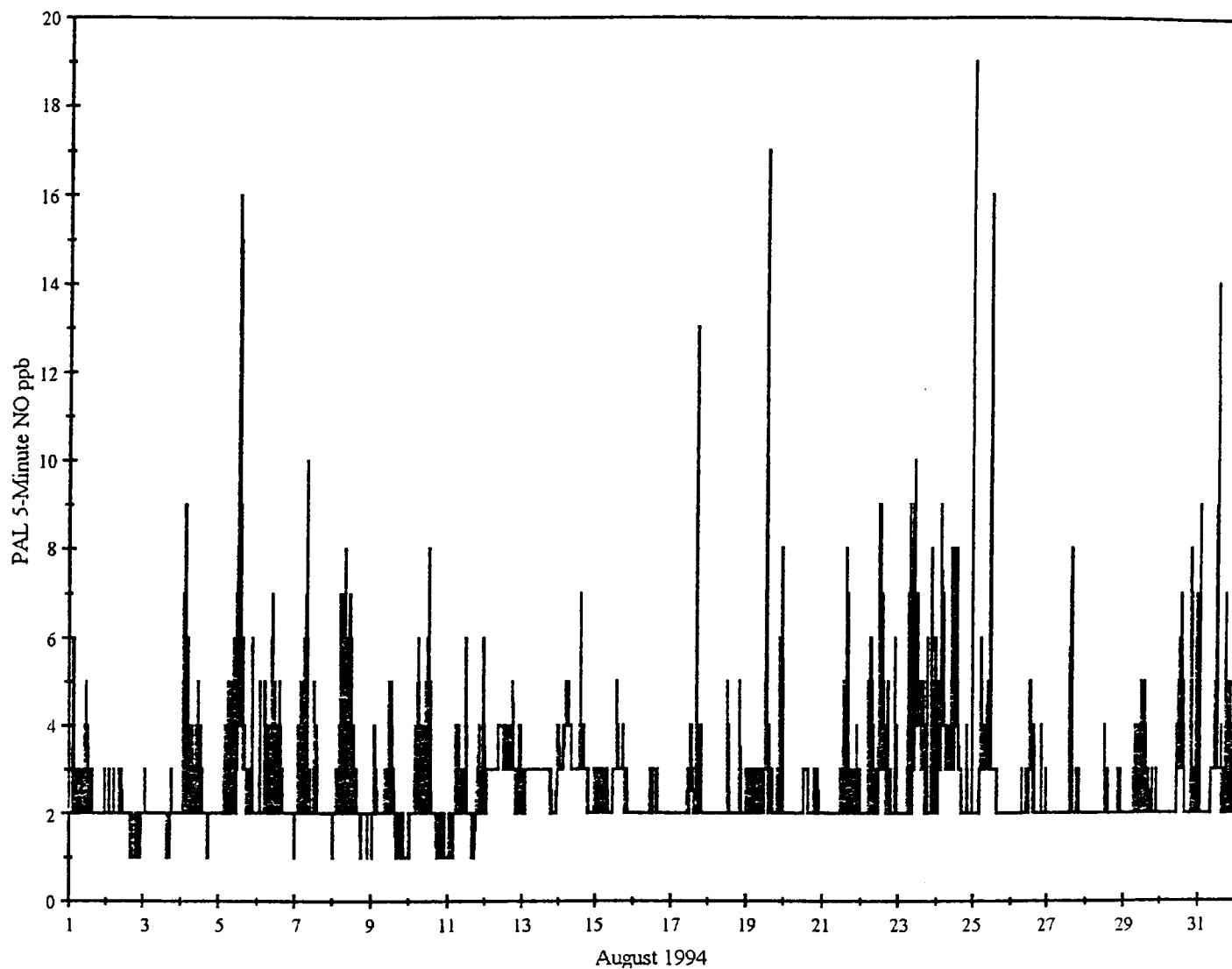


Figure C-6. August 1994 time series of raw 5-minute NO data at Pass-A-Loutre. Hourly averaged data are listed in Table C-11.

**Table C-11.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 NO Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1	1	1	2	1	1	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
4	1	2	3	4	3	2	1	2	1	2	2	2	2	1	1	1	1	1	1	Cal	Cal	Cal	Cal	0
5	0	0	0	0	1	1	1	1	1	1	1	2	8	7	3	2	2	1	0	0	0	1	0	0
6	0	0	1	0	0	1	0	0	0	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0
7	0	0	0	0	1	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	1	1	2	1	1	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0
9	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	1	1	1	1	1	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	Cal	Cal	Cal	0	0	1
12	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	2	2	1	1	1	1	1	1	1
13	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	2
14	2	1	1	2	2	2	2	2	1	1	1	1	1	2	2	2	1	1	1	0	0	0	0	1
15	1	1	1	1	1	0	0	0	0	0	0	1	1	2	1	1	1	1	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	Cal	Cal	Cal	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	1	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
19	1	1	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	1	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	0
22	0	0	0	0	1	1	2	1	1	0	0	4	3	2	3	2	0	0	0	1	0	0	1	0
23	0	0	0	0	0	0	2	2	1	2	3	4	3	2	1	1	1	0	0	Cal	Cal	1	0	1
24	1	1	2	3	3	2	1	1	1	2	3	3	4	4	2	1	1	0	0	0	0	0	0	1
25	0	0	0	0	1	2	1	1	1	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	1	2	2	3	2	0	Cal	Cal	Cal	1	1	0	1	1
31	1	1	0	0	0	0	0	0	1	1	1	2	2	1	1	1	1	1	2	0	0	1	0	0

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 8 ppb on 5 August @ 1200UTC

Miss - Monitor Offline

C-19

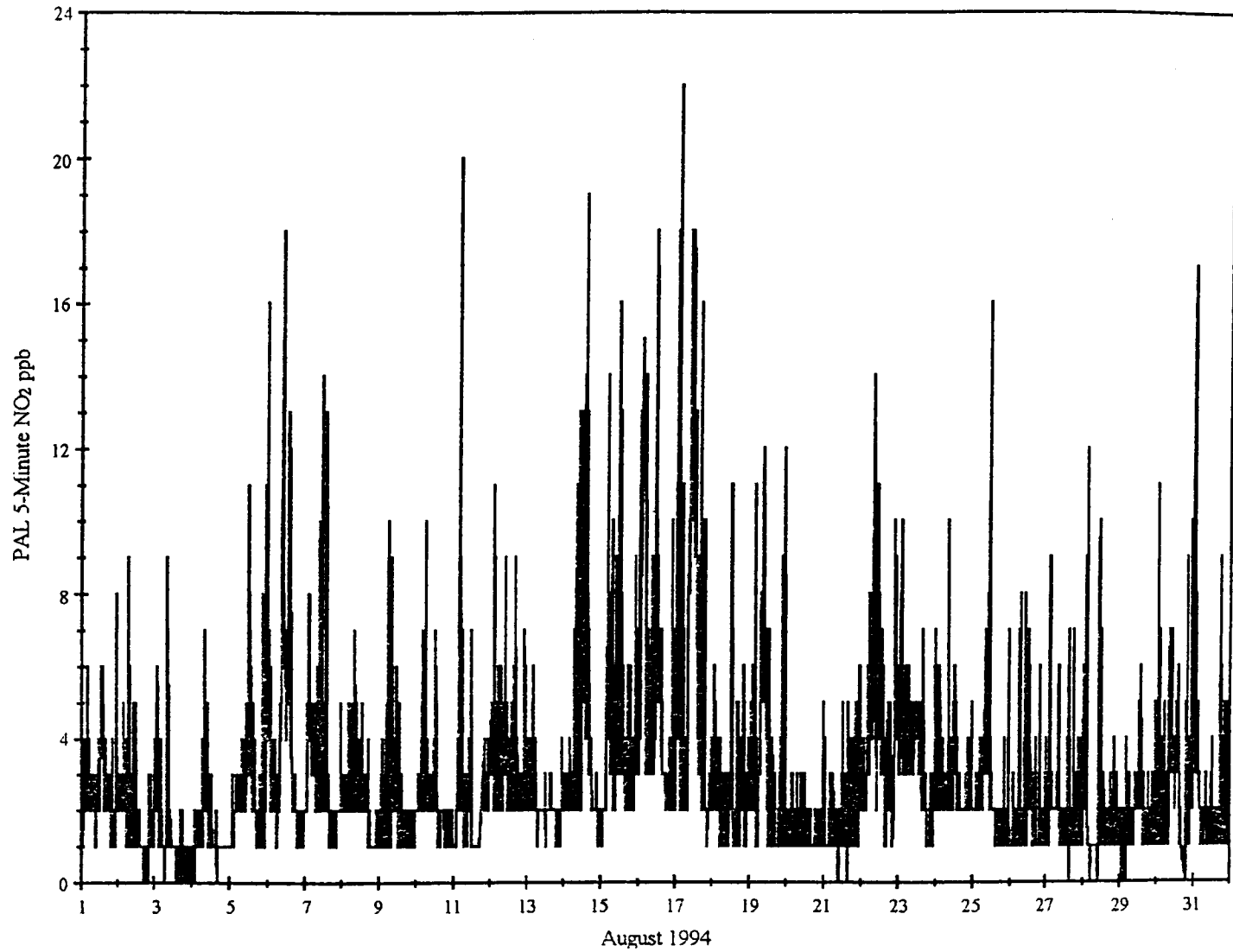


Figure C-7. August 1994 time series of raw 5-minute  $\text{NO}_2$  data at Pass-A-Loutre. Hourly averaged data are listed in Table C-12.

**Table C-12.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 NO<sub>2</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2	1	1	2	4	2	2	1	1	1	2	1	2	4	4	2	2	1	1	1	1	1	0	2
2	1	1	1	2	2	2	1	3	1	1	2	1	1	1	0	0	0	0	0	0	0	1	1	0
3	1	2	3	1	1	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	1	3	2	2	1	0	0	0	0	0	0	0	Cal	Cal	Cal	Cal	0
5	0	0	1	1	1	1	1	1	1	2	1	3	5	4	2	3	2	1	0	1	1	2	1	5
6	8	4	3	2	2	1	1	1	3	7	10	6	4	7	9	3	1	1	1	0	1	1	0	1
7	1	1	4	4	3	3	3	2	2	3	3	4	2	2	4	1	0	0	1	0	1	1	1	2
8	1	1	1	1	2	2	2	2	2	3	2	2	2	2	1	1	1	1	0	0	0	0	0	0
9	0	1	2	1	1	2	6	0	4	2	2	3	1	2	1	1	0	0	1	1	1	0	0	1
10	1	1	1	2	4	2	4	2	1	1	2	2	4	3	1	1	1	1	1	1	0	0	0	0
11	0	0	1	2	8	3	2	1	1	1	2	2	0	0	0	0	0	0	Cal	Cal	Cal	1	1	3
12	2	3	3	3	2	2	3	2	2	3	4	3	2	2	2	2	3	1	1	1	1	1	2	2
13	1	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	2
14	2	1	1	2	2	1	1	4	6	2	4	3	6	10	7	8	4	2	1	1	1	1	1	1
15	1	1	1	2	8	5	5	5	3	2	3	9	6	4	3	2	2	1	2	2	1	2	4	3
16	3	6	11	12	12	5	3	3	3	4	4	7	6	5	5	3	2	2	Cal	Cal	Cal	1	4	4
17	3	10	10	4	3	5	2	2	3	11	13	11	9	10	5	3	4	2	4	4	1	1	1	2
18	1	4	3	2	1	1	1	1	1	1	0	1	5	3	0	0	2	1	1	2	3	1	1	2
19	2	2	2	2	2	1	2	3	6	9	6	4	2	2	1	1	0	0	0	0	1	3	1	5
20	0	1	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
21	1	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	2	0	1	1	1	2	1	3
22	2	3	2	2	3	4	4	4	9	8	3	8	4	3	4	2	1	2	1	3	1	1	6	4
23	2	4	6	3	3	3	4	3	2	3	3	3	3	3	3	2	2	2	1	Cal	Cal	1	1	1
24	2	2	3	2	1	1	1	1	3	2	2	2	3	3	2	2	1	1	1	1	1	3	2	2
25	1	1	2	2	2	2	2	2	4	3	5	4	2	1	1	0	0	0	0	0	0	0	1	2
26	0	0	0	0	0	1	3	1	0	1	3	0	3	3	1	1	1	1	0	0	0	0	0	1
27	2	1	1	4	1	1	1	1	2	1	0	0	0	0	0	2	1	0	1	0	0	1	2	0
28	1	2	3	2	0	0	0	0	0	0	2	3	3	1	0	0	0	0	0	0	1	0	1	0
29	0	0	0	0	1	0	1	1	0	1	1	1	1	2	2	1	1	0	0	0	0	0	0	1
30	2	3	3	1	1	1	0	1	4	5	4	3	2	3	3	1	Cal	Cal	Cal	2	2	0	3	3
31	10	7	3	3	1	1	1	1	1	1	0	1	1	1	0	0	0	1	4	1	1	1	1	1

C-21

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 13 ppb on 17 August @ 1000UTC

Miss - Monitor Offline

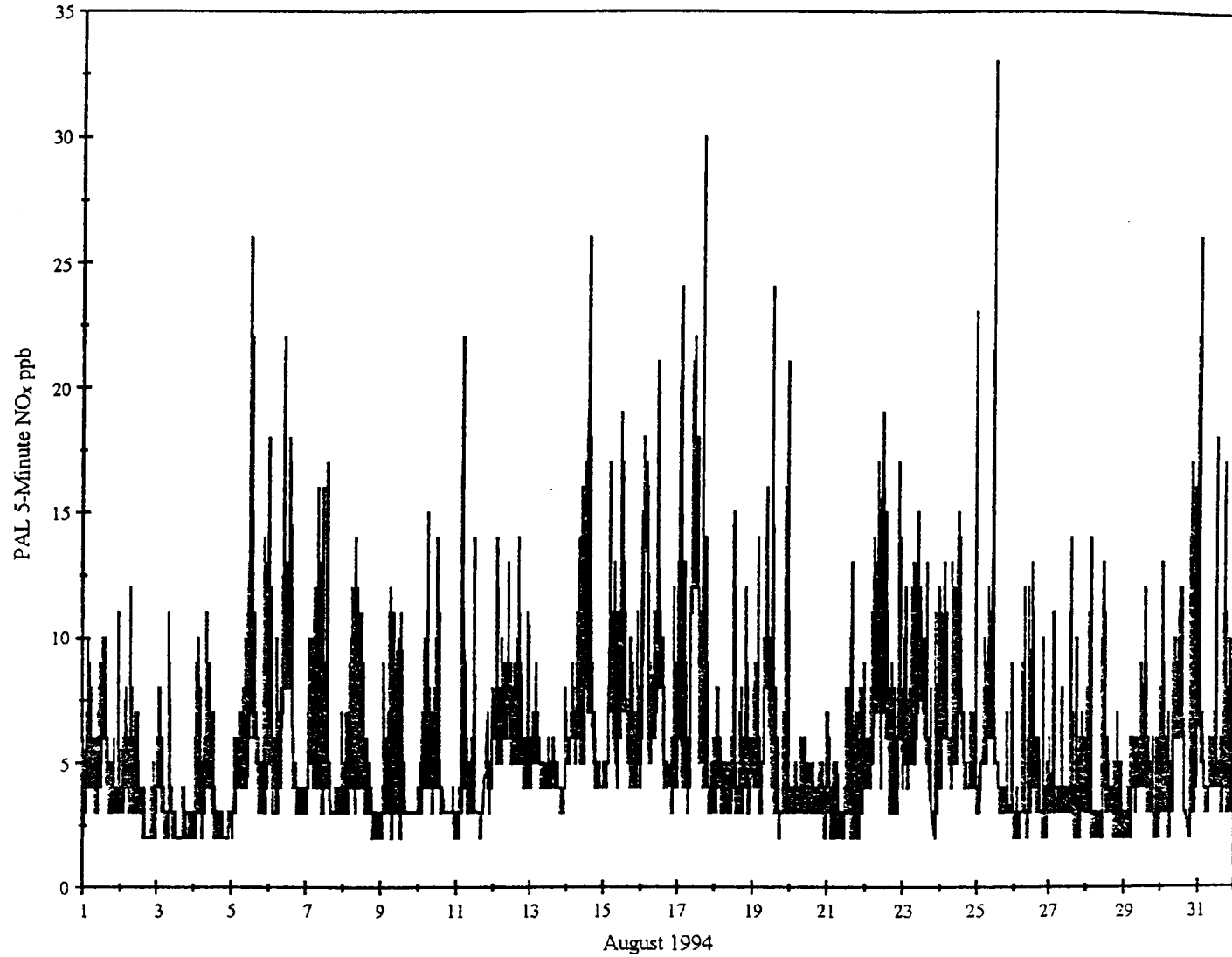


Figure C-8. August 1994 time series of raw 5-minute NO<sub>x</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-13.

**Table C-13.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 NO<sub>x</sub> Concentration ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3	3	4	4	6	4	4	4	3	3	4	5	5	6	7	4	4	3	3	3	3	2	2	4
2	2	3	3	4	5	4	3	6	3	3	4	3	3	2	2	1	1	1	1	1	2	2	2	2
3	3	4	5	3	3	2	2	2	4	3	2	1	2	1	1	1	1	2	2	1	1	1	1	1
4	1	2	4	6	4	3	2	4	6	5	5	4	3	3	2	2	1	1	1	Cal	Cal	Cal	Cal	1
5	1	1	2	2	3	3	3	4	4	4	4	7	13	12	6	6	4	3	1	2	2	3	2	6
6	9	5	4	3	3	3	2	3	4	10	13	8	7	9	12	6	3	2	2	1	1	1	1	1
7	1	2	5	5	5	4	6	5	5	4	4	5	4	3	5	2	1	1	1	1	1	1	1	2
8	2	2	3	2	4	4	5	4	5	6	4	5	4	4	2	2	2	1	1	0	1	1	1	1
9	1	1	3	2	2	3	7	1	5	4	3	5	3	3	2	2	1	1	1	1	1	1	1	1
10	1	2	2	3	6	4	7	4	3	3	3	5	7	6	2	1	1	1	1	1	1	1	1	1
11	0	0	1	3	9	4	4	2	2	2	3	3	1	1	1	1	1	1	Cal	Cal	Cal	2	2	5
12	5	5	5	5	4	5	5	5	5	6	7	6	4	5	5	5	6	3	4	3	3	2	3	4
13	3	3	4	5	5	4	3	3	3	3	2	3	2	3	3	3	3	2	2	2	2	2	2	4
14	4	3	4	5	6	4	4	7	8	4	6	5	9	13	10	11	6	4	3	2	2	2	2	2
15	2	2	3	4	10	6	6	7	4	4	5	11	8	7	6	4	4	3	4	4	2	3	5	4
16	4	7	12	14	13	6	4	5	5	5	5	8	8	7	7	5	3	2	Cal	Cal	Cal	2	5	5
17	4	11	11	6	4	6	3	2	4	12	15	13	12	13	6	3	5	3	6	5	2	1	1	2
18	2	4	4	3	2	2	1	1	1	1	1	2	7	5	1	1	2	2	2	3	5	3	2	3
19	3	4	3	3	3	2	3	4	7	11	8	6	4	5	2	3	1	1	1	1	3	6	2	7
20	1	2	1	1	1	1	1	2	2	1	3	2	2	2	2	1	1	1	1	1	1	1	1	1
21	2	2	1	1	1	1	1	1	1	1	0	1	3	2	2	2	4	0	2	3	2	4	2	5
22	3	3	3	3	6	6	8	6	11	10	5	13	9	5	8	5	2	3	2	5	2	2	8	5
23	3	5	7	3	4	4	7	7	5	7	8	8	8	6	6	4	4	3	2	Cal	Cal	3	2	3
24	4	4	6	6	5	4	4	3	4	4	6	7	8	8	5	4	3	2	2	2	2	4	3	4
25	2	1	2	3	4	5	4	5	7	6	8	8	4	3	2	2	1	1	1	1	1	1	1	3
26	1	1	1	0	1	2	4	2	0	1	4	1	6	6	3	2	2	2	1	1	1	1	1	2
27	3	1	1	5	2	2	2	1	3	2	1	1	1	1	1	3	2	1	2	1	1	3	3	1
28	2	2	4	3	1	0	1	1	0	0	3	4	5	2	2	1	1	1	1	1	2	1	1	0
29	1	1	1	1	1	1	3	2	2	3	3	4	3	4	4	3	2	1	1	2	1	1	0	2
30	2	3	3	2	2	1	1	1	5	6	6	6	5	8	6	2	Cal	Cal	Cal	4	5	2	4	6
31	12	10	4	4	2	1	2	2	3	2	3	4	4	3	2	2	2	3	8	2	3	3	3	2

Cal - Calibration  
 QD - Questionable Data  
 Maximum Concentration 15 ppb on 17 August @ 1000UTC

Miss - Monitor Offline

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**Table C-14.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.2	0.4	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.2	1.0	0.4	0.0	0.8	1.3	0.0	0.4	0.0	0.0
2	0.0	0.0	0.1	1.2	2.5	0.6	1.3	0.6	0.1	0.8	2.9	4.5	6.0	5.7	4.6	5.4	5.3	5.5	6.0	5.0	4.1	3.5	3.9	0.6
3	0.9	2.1	0.3	2.5	1.0	1.4	2.7	2.7	3.3	3.2	3.4	3.4	3.6	4.1	4.8	5.4	6.2	6.7	6.3	5.5	4.2	3.5	3.5	3.5
4	1.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.6	2.9	3.6	4.4	4.2	4.2	Cal	Cal	Cal	1.6
5	0.9	0.6	0.3	0.5	0.3	0.2	0.4	0.6	0.4	0.6	0.4	0.1	0.3	1.0	2.2	2.7	2.4	2.2	2.5	1.2	1.0	0.8	0.7	1.5
6	1.4	0.2	2.9	1.3	0.4	0.4	0.1	0.5	0.4	0.0	0.4	0.5	1.4	1.6	1.4	1.8	2.0	2.1	2.0	1.6	1.5	2.1	2.2	1.5
7	2.3	0.4	0.3	0.1	0.0	0.5	0.0	0.2	0.1	0.8	0.9	1.7	1.6	0.7	0.7	1.6	2.1	1.5	0.9	1.2	2.1	1.5	1.4	1.7
8	0.6	0.1	0.0	0.3	0.3	0.1	0.0	0.2	0.4	0.3	0.7	0.3	0.1	0.2	0.8	1.0	0.4	1.8	1.5	3.8	4.2	4.3	4.4	4.0
9	3.0	0.9	0.5	1.5	3.0	3.3	2.2	1.6	1.5	0.5	1.1	0.9	1.6	0.4	3.5	5.1	5.4	5.4	5.8	5.6	5.1	5.2	5.3	3.8
10	2.3	1.6	1.7	1.1	1.9	1.1	1.0	0.5	1.2	0.6	0.7	0.7	0.3	0.5	2.0	3.4	4.0	4.3	5.0	4.4	4.4	3.8	3.4	3.6
11	4.0	3.6	3.5	2.4	1.3	1.0	0.8	1.1	1.2	1.6	1.6	1.7	1.8	3.1	3.6	4.0	3.4	4.4	Cal	Cal	Cal	3.3	4.5	3.5
12	2.9	1.8	2.0	2.6	2.4	1.9	1.3	0.8	0.1	0.7	0.3	0.6	0.4	1.7	1.7	0.4	3.5	2.3	4.0	4.8	3.9	3.2	3.7	3.9
13	3.6	2.7	2.4	2.6	1.8	1.7	1.1	0.8	1.3	1.1	1.6	1.5	3.5	4.2	4.2	3.7	4.1	3.1	3.5	4.5	4.3	4.3	4.5	4.0
14	1.5	0.6	0.9	0.4	0.1	0.1	0.6	2.2	3.0	2.8	2.5	2.3	3.5	3.8	1.5	3.5	2.9	3.0	3.6	4.2	4.1	3.6	2.9	1.7
15	0.5	0.9	0.9	0.4	1.0	1.0	1.0	0.9	1.6	2.1	1.1	1.8	2.9	2.6	3.2	3.0	3.2	3.4	3.4	3.3	2.7	2.7	3.5	4.0
16	5.4	3.4	4.2	3.9	3.2	2.2	2.8	2.9	2.9	3.3	2.9	3.5	3.4	4.2	3.8	3.9	4.4	4.6	4.9	Cal	Cal	3.8	2.5	2.8
17	3.4	3.6	3.2	3.4	3.0	3.1	2.2	1.9	2.1	1.5	0.5	0.3	0.2	0.2	3.6	4.1	2.9	1.1	1.6	1.9	2.6	3.3	3.2	2.4
18	1.9	1.6	2.1	1.7	1.3	1.2	1.5	2.4	3.1	2.5	3.3	2.3	1.7	2.3	1.9	2.7	2.6	1.2	1.5	0.3	0.5	1.7	1.6	1.7
19	1.8	1.7	2.1	1.4	1.7	0.6	0.6	0.9	1.0	0.5	0.6	0.6	1.2	1.2	3.3	3.2	3.3	3.6	2.7	2.3	2.5	2.6	2.8	2.9
20	2.6	2.6	2.6	2.3	2.0	1.3	1.6	1.8	1.6	1.6	1.9	2.0	2.2	1.8	2.3	2.9	2.9	3.0	3.4	3.5	3.6	3.6	3.5	2.9
21	1.9	1.6	2.2	2.1	2.1	2.7	2.5	2.7	3.3	3.2	4.0	3.6	3.7	4.0	4.3	5.1	4.7	5.3	2.0	2.1	4.9	3.3	3.7	3.1
22	2.4	1.1	0.2	0.9	0.5	0.3	0.2	0.7	0.5	0.6	0.7	0.1	0.0	0.4	1.8	2.4	3.0	1.4	0.7	0.2	1.3	1.1	0.6	0.9
23	0.8	1.0	1.0	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.3	1.1	0.5	0.0	0.5	1.8	2.1	Cal	Cal	1.1	0.3
24	0.5	0.2	0.7	0.4	0.7	1.0	1.5	1.3	0.9	0.1	0.1	0.3	0.0	0.5	1.7	2.5	2.8	3.3	3.4	3.5	3.5	3.3	2.6	1.9
25	0.3	0.1	0.0	0.0	0.0	0.0	0.2	0.8	0.5	0.7	0.3	0.8	1.5	2.0	2.6	3.6	4.1	3.6	3.8	3.7	4.7	5.9	6.7	5.0
26	5.2	5.0	3.2	3.5	2.5	2.0	1.7	1.4	2.3	1.3	0.8	2.1	0.5	1.9	3.0	3.6	3.9	4.0	2.4	1.2	0.8	3.2	3.4	3.5
27	2.8	2.4	2.2	2.4	2.0	1.2	1.3	1.2	1.0	1.0	1.1	1.4	1.4	2.5	2.5	3.7	4.6	3.7	4.3	3.2	3.9	3.2	3.8	4.2
28	3.3	3.1	2.8	2.9	1.6	1.7	1.9	1.9	1.9	1.8	1.6	1.0	2.0	1.5	2.4	2.1	2.8	3.2	3.4	3.3	4.2	3.8	3.3	3.1
29	2.0	1.6	1.1	0.9	1.3	0.3	0.5	0.1	0.1	0.1	0.3	0.1	0.1	0.1	1.3	2.1	2.5	2.2	1.0	0.8	1.9	2.3	2.6	1.8
30	1.6	1.8	1.9	2.3	2.4	2.1	1.4	1.2	0.9	0.3	0.0	0.2	0.0	0.0	0.8	1.1	1.3	Cal	Cal	Cal	2.2	2.7	3.3	0.7
31	0.5	0.7	0.4	0.2	0.0	0.6	0.6	1.2	0.3	0.4	0.1	0.0	0.1	0.7	1.7	1.3	0.4	2.3	3.0	2.1	1.5	1.5	1.6	0.9

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Maximum Speed 6.7 m s<sup>-1</sup> from 140° on 3 August @ 1700UTC and from 86° on 25 August @ 2200UTC



**Table C-15.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 Wind Direction**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	216	216	134	281	246	100	98	95	70	70	70	70	70	62	77	86	45	35	61	94	67	108	103	103
2	103	103	71	83	87	75	88	98	84	73	84	88	109	114	114	126	116	121	125	118	132	208	226	230
3	97	90	105	112	117	112	112	117	100	102	114	117	115	117	122	121	130	140	138	133	127	136	145	149
4	157	157	157	157	157	157	100	91	91	91	91	91	91	65	50	81	102	111	108	123	Cal	Cal	Cal	114
5	126	161	138	110	51	79	7	352	356	22	23	28	6	352	341	341	352	64	153	74	157	222	220	232
6	233	234	335	9	44	34	351	310	303	280	299	340	344	319	341	346	337	350	349	10	40	59	100	171
7	190	209	279	350	24	150	150	150	211	176	225	259	304	276	312	336	338	330	324	52	56	59	177	181
8	147	89	343	83	176	142	112	149	186	63	48	38	38	12	41	12	41	208	53	63	73	76	78	86
9	87	82	40	74	86	89	91	105	90	77	68	63	111	70	77	77	76	75	76	75	68	65	66	70
10	65	69	78	75	85	79	51	54	42	57	45	37	11	48	50	54	54	65	73	70	77	72	61	54
11	72	75	87	87	94	57	56	48	57	45	54	46	50	58	66	67	68	75	Cal	Cal	Cal	54	66	83
12	83	83	89	87	86	92	88	81	66	82	74	46	150	101	135	120	98	55	74	86	100	73	77	88
13	86	83	83	83	83	76	50	61	60	56	60	59	53	54	55	46	48	33	55	58	68	64	79	87
14	85	50	49	41	7	6	313	320	329	331	337	335	313	318	7	317	336	347	349	338	353	355	5	7
15	357	340	341	302	279	300	278	293	290	312	357	336	333	339	336	342	339	331	328	323	309	272	247	250
16	282	284	311	313	323	319	316	322	313	321	308	306	310	315	313	298	295	281	278	Cal	Cal	270	258	232
17	228	224	225	232	230	228	248	247	313	334	325	308	341	31	223	306	293	305	224	197	202	203	209	240
18	266	233	219	219	212	199	194	191	192	209	223	227	236	251	272	240	329	140	132	200	283	244	228	188
19	175	211	223	227	208	223	237	218	233	234	240	224	309	320	238	240	239	250	244	241	225	247	234	214
20	221	214	208	206	208	202	193	180	197	192	191	188	191	199	205	204	194	192	195	199	200	207	210	211
21	206	197	202	200	192	181	189	184	187	198	213	217	221	210	211	216	227	259	297	334	279	282	310	326
22	337	357	140	158	172	196	213	255	289	242	268	260	260	314	349	340	278	290	299	11	179	184	228	205
23	239	223	233	236	213	224	224	224	224	224	76	69	70	74	258	272	224	178	152	178	Cal	Cal	141	132
24	115	95	95	92	97	102	98	116	155	141	123	100	20	34	60	46	61	72	79	78	79	81	84	96
25	112	135	104	104	104	104	331	16	19	6	13	4	3	12	49	70	76	69	66	73	78	78	86	96
26	103	109	97	109	112	100	83	84	111	97	80	85	62	63	85	89	82	84	35	67	261	59	82	82
27	88	88	87	90	86	79	80	77	78	46	39	71	54	67	67	97	84	73	80	77	93	94	89	86
28	86	87	88	98	102	106	104	114	103	100	96	69	93	129	99	100	102	111	103	74	94	105	102	115
29	118	120	112	158	170	134	61	46	27	58	49	68	90	117	161	200	208	3	68	245	260	249	252	244
30	241	225	224	218	218	221	231	239	224	269	268	5	49	226	320	282	279	Cal	Cal	Cal	152	190	265	220
31	223	216	182	138	138	127	141	157	153	168	128	122	123	146	181	261	47	236	220	230	271	250	242	257

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**Table C-16.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 Air Temperatures °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	24.8	25.0	24.4	23.8	24.7	23.8	23.6	23.9	23.8	24.2	24.4	24.5	25.1	25.6	26.1	26.7	28.3	28.0	28.4	27.9	28.3	28.3	27.2	26.8
2	26.1	25.5	25.3	25.1	25.8	26.0	26.1	26.1	26.1	26.0	26.6	26.5	26.9	24.4	25.3	26.3	26.6	27.8	28.3	28.8	28.2	26.3	22.9	23.3
3	23.3	23.3	23.8	24.0	24.4	24.9	25.0	25.3	25.6	25.6	25.9	26.0	26.3	27.2	27.9	28.4	28.4	28.8	29.2	29.1	29.3	29.7	29.5	29.0
4	28.5	27.2	26.6	26.4	26.4	26.2	26.1	26.3	25.8	25.8	25.8	25.7	26.4	27.2	27.6	27.8	29.4	29.8	29.4	30.1	Cal	Cal	Cal	Cal
5	29.1	27.5	27.3	27.0	26.4	26.7	26.4	26.5	26.6	26.3	26.3	25.8	26.7	28.5	29.3	29.3	29.6	31.1	26.4	25.1	30.2	30.4	29.6	29.0
6	28.4	28.0	27.7	23.1	24.2	24.4	24.9	25.1	25.2	25.3	25.2	25.9	26.0	26.7	27.0	27.2	28.1	28.8	29.3	29.5	30.8	30.1	29.0	28.0
7	26.6	25.7	25.5	26.0	25.2	25.3	25.5	25.1	25.4	25.6	26.1	26.3	26.0	26.5	29.6	29.0	29.2	29.9	30.8	31.6	30.0	29.1	27.5	27.0
8	27.3	26.6	25.7	26.2	26.2	26.3	25.9	25.7	26.4	25.8	25.7	25.7	26.1	27.2	29.0	31.0	29.6	29.0	27.8	29.3	29.2	29.5	28.6	28.3
9	27.6	26.7	25.9	26.4	26.2	26.4	26.7	26.5	26.6	26.3	25.6	26.0	25.9	25.7	28.6	29.0	29.4	29.4	29.5	29.2	29.1	29.1	28.7	28.4
10	27.7	26.5	26.2	26.3	25.6	26.0	25.4	25.4	25.1	25.4	25.0	25.1	25.5	27.1	26.7	29.1	29.3	29.0	29.6	29.7	29.7	29.5	29.7	28.9
11	28.0	27.6	27.3	27.1	26.7	26.2	26.2	25.8	26.1	26.1	26.4	26.3	26.7	28.2	29.3	29.7	30.6	30.1	Cal	Cal	Cal	Cal	29.1	28.3
12	27.9	27.7	27.3	27.3	27.3	27.2	27.1	26.6	26.4	26.3	26.5	26.4	26.5	26.7	25.3	26.3	28.8	25.5	29.6	29.3	28.4	29.2	29.2	28.5
13	27.9	27.3	27.1	27.1	26.9	26.8	26.7	26.6	26.6	26.4	26.4	26.6	26.9	27.4	28.4	28.7	29.3	29.5	29.5	29.4	28.7	29.2	29.1	28.3
14	28.0	26.9	27.0	26.8	26.2	26.4	26.1	26.6	26.5	26.1	26.3	26.5	27.0	27.0	27.2	26.8	26.9	27.0	28.1	28.9	29.0	28.8	29.1	28.8
15	28.7	27.5	27.4	27.3	27.2	27.2	27.3	27.3	27.3	27.2	27.1	26.4	27.6	27.9	28.2	28.3	29.2	29.4	29.8	30.0	30.1	30.4	29.7	29.4
16	28.8	27.1	28.3	27.9	27.6	27.4	27.3	27.1	26.9	26.7	26.5	26.4	26.3	26.7	27.2	27.7	28.0	28.8	28.8	Cal	Cal	Cal	29.7	29.5
17	28.9	28.3	27.9	27.5	27.5	27.5	27.8	27.6	27.9	27.5	27.2	26.6	27.1	28.5	29.6	22.2	23.8	24.0	26.3	26.9	26.8	26.9	27.1	27.3
18	26.5	26.2	26.3	26.5	26.4	26.3	26.4	26.5	26.7	26.7	26.9	26.8	26.7	28.1	27.7	28.6	26.0	24.3	26.1	25.5	29.0	29.9	29.5	28.6
19	27.4	27.1	27.4	27.4	27.1	27.1	26.3	26.5	26.8	26.7	26.5	26.6	27.4	26.5	26.3	27.0	28.3	28.7	28.6	29.9	29.8	29.8	29.9	29.3
20	28.5	28.1	27.8	27.7	27.6	27.3	27.4	27.1	27.2	27.1	27.1	27.2	27.4	28.1	29.0	29.4	29.3	29.2	29.7	29.7	29.7	29.4	29.6	29.2
21	28.7	28.0	27.9	27.9	27.7	27.8	27.8	27.8	27.7	27.8	27.9	28.0	27.9	28.4	28.8	29.0	29.4	29.3	26.3	28.2	29.0	25.1	26.0	26.2
22	26.0	25.6	25.3	25.0	25.1	24.9	25.6	25.5	26.0	26.0	26.1	26.1	25.8	26.9	27.2	27.6	25.8	23.4	23.9	25.8	28.1	26.9	27.2	26.7
23	26.7	26.3	26.6	26.4	26.1	26.3	25.8	25.5	25.2	25.2	24.9	25.3	25.6	28.0	28.5	25.7	29.6	32.0	28.4	24.9	Cal	Cal	Cal	26.7
24	27.0	26.3	26.1	26.0	25.9	26.2	26.1	26.1	25.8	25.7	25.6	25.9	26.0	28.5	29.3	29.5	29.3	29.8	29.9	30.1	29.7	29.8	29.7	29.0
25	27.9	26.8	26.7	26.2	26.1	25.6	25.6	25.9	25.4	25.2	25.4	25.3	26.1	27.2	28.8	29.3	29.8	29.9	30.0	29.9	29.9	29.0	28.1	27.7
26	27.4	26.5	25.9	26.6	26.6	26.2	26.4	26.0	26.4	26.7	26.1	26.0	26.4	26.7	28.7	29.0	29.1	25.4	26.0	25.4	23.8	26.1	27.0	27.5
27	26.7	26.0	26.0	26.0	26.0	25.9	25.5	25.6	25.8	25.4	25.5	25.5	25.7	27.6	28.2	28.2	28.5	28.5	28.5	27.2	24.2	26.7	26.9	27.3
28	26.9	26.5	26.3	26.8	26.7	26.7	26.8	26.8	26.4	26.6	26.6	26.2	26.5	28.2	28.5	29.3	30.0	29.6	30.2	29.8	29.1	29.3	29.2	29.0
29	27.7	27.1	27.1	27.0	26.8	27.3	26.7	26.6	26.6	26.4	26.4	26.2	26.4	29.6	30.1	29.9	29.0	29.1	26.3	30.8	30.5	30.7	30.3	29.9
30	28.8	28.3	28.3	28.2	28.2	28.3	28.0	27.6	27.6	27.3	27.2	26.6	26.9	31.9	32.2	28.8	29.5	Cal	Cal	Cal	Cal	27.0	24.7	25.1
31	25.9	26.0	26.6	25.8	25.7	25.7	25.8	25.7	25.8	25.8	26.0	25.8	25.8	29.7	29.4	27.9	26.4	28.4	29.0	25.6	26.3	26.9	29.3	29.0

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**Table C-17.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 Pressure mb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1021	1022	1022	1022	1022	1022	1021	1021	1021	1021	1022	1023	1023	1023	1023	1024	1024	1024	1023	1022	1023	1022	1022	1021
2	1021	1021	1021	1021	1021	1021	1020	1020	1020	1019	1019	1018	1019	1020	1020	1020	1020	1020	1020	1019	1019	1019	1020	1019
3	1020	1019	1020	1021	1021	1021	1021	1020	1019	1020	1020	1021	1022	1022	1022	1022	1022	1022	1022	1022	1021	1021	1022	1021
4	1022	1022	1023	1023	1023	1023	1022	1022	1021	1022	1022	1022	1023	1023	1023	1024	1024	1023	1023	1022	Cal	Cal	Cal	Cal
5	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1022	1023	1022	1023	1023	1022	1022	1021	1020	1020	1020
6	1020	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1022	1021	1021	1020	1020	1019	1019	1018
7	1019	1019	1019	1019	1019	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018
8	1017	1018	1019	1020	1020	1020	1019	1019	1018	1018	1018	1019	1020	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020
9	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1023	1023
10	1022	1023	1023	1023	1024	1024	1023	1023	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1021	1021
11	1021	1021	1022	1022	1022	1023	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	Cal	Cal	Cal	Cal	1021	1021
12	1021	1021	1022	1022	1022	1022	1021	1021	1021	1020	1020	1021	1022	1022	1022	1023	1023	1023	1023	1022	1021	1021	1021	1021
13	1021	1021	1021	1021	1022	1022	1021	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1019	1019
14	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1018	1018	1019	1019	1019	1018	1018	1018	1018	1017	1016	1016	1016
15	1016	1016	1016	1017	1017	1016	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1014
16	1014	1014	1014	1015	1015	1015	1015	1015	1015	1014	1015	1015	1016	1016	1017	1017	1018	1018	1017	Cal	Cal	Cal	1016	1016
17	1017	1017	1017	1018	1018	1018	1018	1017	1017	1017	1018	1018	1019	1019	1020	1022	1021	1021	1020	1021	1021	1020	1020	1020
18	1019	1019	1020	1020	1020	1021	1021	1020	1020	1020	1020	1021	1021	1021	1022	1022	1023	1023	1023	1022	1021	1020	1020	1020
19	1020	1020	1020	1020	1021	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1023	1022	1022	1022	1021	1020	1020	1019	1019
20	1019	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1021	1020	1020	1019	1019	1018	1018	1017
21	1017	1017	1018	1018	1018	1019	1019	1018	1018	1017	1017	1018	1018	1018	1018	1018	1019	1018	1018	1018	1018	1017	1017	1017
22	1017	1016	1017	1017	1017	1018	1018	1018	1018	1017	1017	1018	1018	1019	1019	1019	1020	1020	1019	1019	1019	1018	1018	1018
23	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1021	1022	1022	1022	1023	1023	1023	1023	1023	Cal	Cal	1021
24	1021	1022	1022	1023	1023	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1026	1025	1025	1025	1024	1024	1023
25	1023	1024	1024	1025	1025	1024	1024	1023	1023	1023	1023	1024	1024	1024	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022
26	1022	1022	1022	1023	1023	1022	1022	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	1022	1021	1021
27	1021	1021	1021	1022	1022	1022	1021	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1022	1022	1021	1021	1020
28	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1020	1019
29	1019	1019	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1021	1021	1020	1020	1019	1019	1019	1018
30	1018	1019	1019	1020	1020	1020	1019	1019	1018	1018	1019	1019	1020	1021	1021	1021	1021	Cal	Cal	Cal	Cal	1020	1020	1020
31	1020	1020	1020	1020	1020	1019	1019	1019	1019	1020	1020	1021	1021	1022	1022	1022	1023	1023	1022	1022	1021	1021	1020	1020

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**Table C-18.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**August 1994 Relative Humidity %**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	71.5	63.7	72.3	83.4	78.2	83.9	88.8	86.7	86.8	86.4	84.4	85.9	82.1	82.4	79.6	71.4	61.4	60.7	61.2	64.0	59.6	59.8	64.4	67.5
2	70.5	74.8	77.3	80.8	77.8	77.6	75.4	75.8	79.5	82.7	79.1	78.6	74.1	84.4	79.2	74.5	74.4	69.8	70.8	74.2	70.8	73.8	84.1	88.7
3	89.1	88.9	88.7	87.2	86.6	84.7	86.6	85.1	84.5	86.2	85.8	83.7	83.9	81.0	80.8	78.8	78.2	75.6	75.9	73.5	71.7	70.5	68.0	69.3
4	72.0	82.8	86.3	87.3	87.7	90.4	90.6	87.6	89.6	89.5	89.6	92.0	91.0	86.1	80.2	79.2	68.6	69.5	70.4	65.5	Cal	Cal	Cal	Cal
5	67.6	78.2	80.4	81.7	84.0	83.9	88.3	84.5	86.8	85.7	87.4	89.9	88.9	78.5	72.6	72.0	69.4	61.1	70.6	86.4	64.3	57.3	62.9	65.2
6	71.8	76.6	79.8	87.3	89.8	89.5	86.6	89.2	88.0	88.3	88.9	82.6	84.8	80.3	81.5	78.3	76.2	71.3	67.4	66.3	61.0	66.8	70.5	71.6
7	70.4	77.4	78.8	79.3	81.7	82.2	80.4	87.4	86.4	87.4	84.6	83.8	78.2	78.7	64.5	67.8	65.5	62.5	58.7	52.9	62.6	68.2	72.6	75.2
8	73.1	80.4	84.8	82.1	78.7	82.0	85.0	84.6	80.4	83.0	86.4	86.0	85.6	80.9	74.7	61.1	64.4	63.8	70.8	65.6	65.3	62.3	65.9	66.8
9	72.1	75.5	82.5	77.8	79.7	75.4	74.4	78.4	75.3	77.3	81.4	79.1	83.3	70.7	68.1	63.4	58.1	56.3	51.7	52.9	56.2	54.7	57.0	57.5
10	59.4	68.3	71.1	68.4	73.9	68.7	73.8	74.7	76.8	75.1	78.0	79.7	78.4	75.6	73.3	66.8	59.1	58.0	52.7	52.7	53.3	52.0	55.7	64.5
11	69.1	73.2	73.6	70.9	73.5	79.7	80.3	83.2	81.9	83.5	80.7	78.6	77.1	70.8	64.0	62.1	60.9	61.5	Cal	Cal	Cal	Cal	68.8	60.5
12	73.9	76.7	78.6	78.9	80.5	82.0	81.9	84.1	85.5	86.9	87.1	87.9	83.0	78.0	81.9	79.2	72.5	86.8	68.6	67.8	74.0	66.4	67.6	69.1
13	70.9	75.5	78.0	78.7	76.9	77.5	81.4	80.5	80.3	81.0	80.7	80.7	79.3	77.4	68.2	68.6	65.1	62.3	66.8	68.0	69.4	67.4	68.2	71.8
14	69.7	79.4	73.9	77.4	83.5	85.1	84.4	83.9	83.1	86.1	82.6	85.6	82.2	78.4	80.2	83.6	86.5	84.1	77.6	71.7	69.8	69.5	67.4	66.7
15	67.7	75.2	76.2	77.5	80.9	81.3	80.7	84.2	83.3	84.3	83.5	84.8	85.0	78.7	77.2	76.0	71.5	68.8	66.2	66.0	62.5	64.1	71.8	72.9
16	76.9	78.6	74.8	78.6	80.8	82.9	81.7	81.1	83.3	82.1	83.2	83.7	83.9	81.4	79.9	78.2	76.2	72.7	70.1	Cal	Cal	Cal	63.4	64.1
17	68.6	77.0	78.0	80.0	77.3	77.1	79.7	81.7	77.8	73.5	71.0	72.7	70.7	72.3	67.3	92.4	94.7	92.7	80.9	79.9	77.8	78.2	77.3	75.8
18	80.0	81.4	83.0	82.9	82.2	82.2	82.0	80.4	80.7	78.8	76.4	78.9	80.4	76.2	77.1	72.8	80.4	86.0	79.4	84.3	68.0	65.0	65.8	71.2
19	78.9	81.9	76.8	78.1	79.0	78.7	83.6	83.4	83.0	84.3	86.1	86.2	82.2	75.2	81.1	76.2	68.6	70.0	69.3	66.7	63.4	67.6	65.5	66.4
20	74.5	77.5	80.0	79.1	82.5	83.5	83.4	84.8	80.7	81.8	82.7	81.3	80.7	76.9	73.7	71.0	72.0	72.4	70.0	70.8	69.1	70.9	68.7	68.4
21	71.2	73.4	74.2	75.6	78.2	77.2	77.9	79.4	81.6	81.9	78.7	81.3	83.3	79.2	74.5	77.7	77.4	77.5	82.8	76.5	75.3	88.2	89.6	81.5
22	83.5	85.9	87.3	92.4	90.8	91.0	89.8	89.5	85.8	86.2	88.1	87.2	91.2	85.4	84.8	81.3	84.3	93.7	92.4	82.1	71.2	77.9	77.5	80.1
23	79.8	84.0	84.8	87.2	88.7	88.5	91.4	92.5	95.4	94.5	96.0	98.8	95.2	85.5	81.3	91.8	75.2	67.3	78.4	82.3	Cal	Cal	Cal	79.5
24	80.2	88.5	92.5	90.6	93.7	91.2	90.8	88.2	90.0	88.9	89.8	88.8	92.7	86.5	78.0	74.0	68.5	68.7	61.6	64.1	67.2	65.2	64.7	67.0
25	74.0	81.0	81.1	88.5	80.1	82.2	85.2	83.0	89.1	88.2	89.4	92.2	87.8	85.4	78.0	76.6	70.3	69.9	73.2	72.7	69.7	79.0	80.8	78.2
26	81.6	85.4	83.0	83.3	82.8	88.9	91.5	93.9	88.8	85.8	90.8	90.3	89.8	89.1	79.8	75.4	72.9	89.0	85.7	95.8	91.7	87.9	87.0	80.7
27	87.1	90.3	93.1	90.8	90.5	90.4	93.3	90.9	89.4	91.3	90.0	91.9	93.9	85.4	80.6	82.0	79.6	79.8	86.4	97.3	88.0	88.7	87.3	87.5
28	87.6	91.0	93.7	92.1	93.6	94.3	92.8	93.9	94.1	91.9	91.8	90.9	94.1	86.8	87.4	78.5	78.3	78.5	76.0	78.4	81.4	81.0	82.1	84.3
29	89.0	92.8	93.4	94.2	94.8	94.1	98.3	99.9	100.0	100.0	100.0	100.0	100.0	86.2	80.7	81.6	84.4	81.0	89.5	75.6	77.2	73.1	76.9	79.4
30	84.5	88.0	87.9	88.9	89.1	88.1	89.6	92.9	93.9	94.5	93.9	98.5	99.1	82.5	75.5	84.9	79.8	Cal	Cal	Cal	Cal	90.8	96.0	94.0
31	90.1	94.0	94.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	100.0	100.0	87.4	83.5	87.7	99.4	92.0	84.1	93.4	95.8	93.2	76.4	77.6

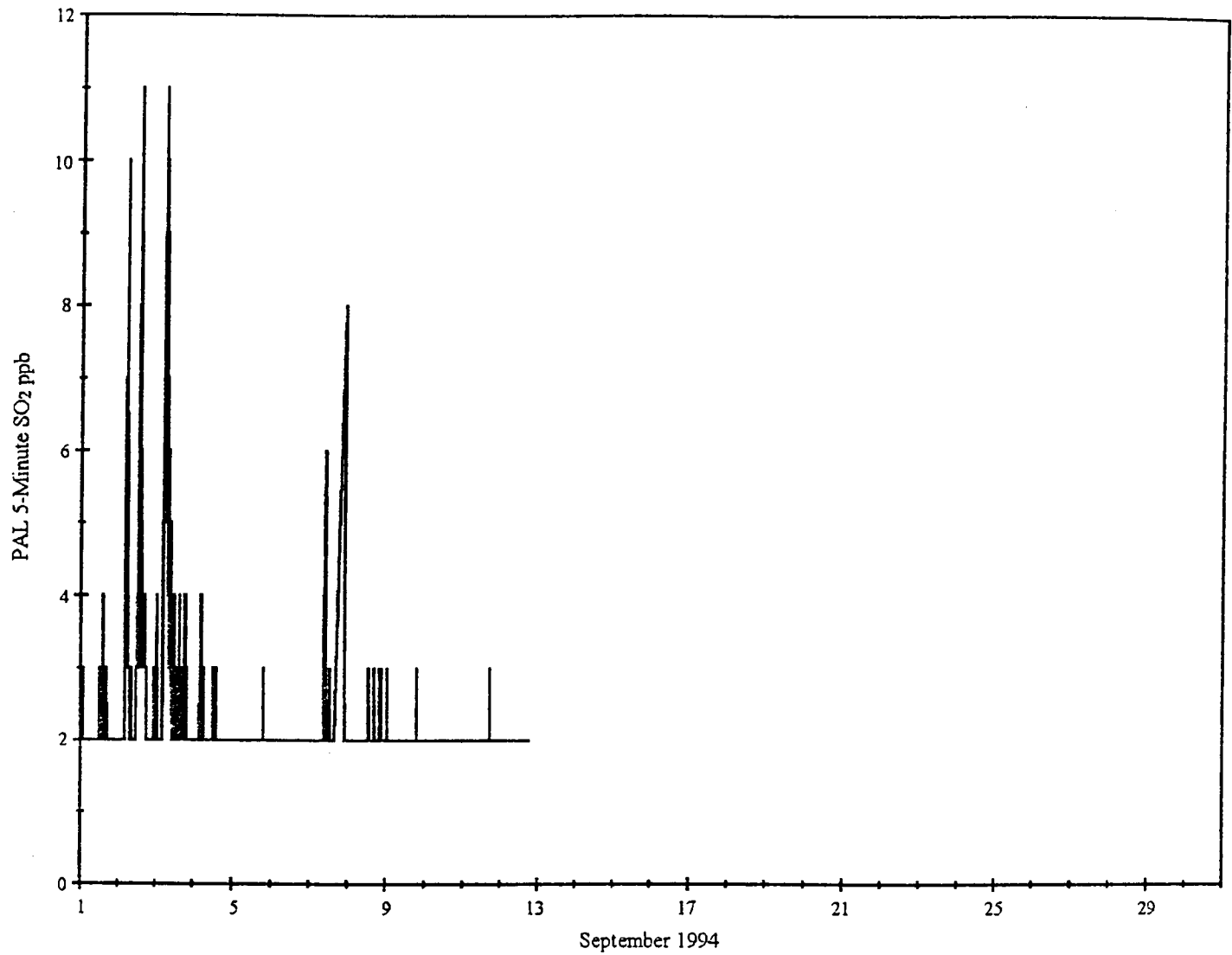


Figure C-9. September 1994 time series of raw 5-minute SO<sub>2</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-19.

**Table C-19.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 SO<sub>2</sub> ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	3	2	1	1	0	0	0	0	3	4	3	1	1	1	0	0	0	0	0	0
3	1	0	0	0	2	7	4	3	2	2	0	1	0	0	1	1	0	0	0	1	0	0	0	0
4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	Cal	Cal	Cal	Cal	Cal	Cal	Cal	1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 7 ppb on 3 September @ 0500UTC

C-30

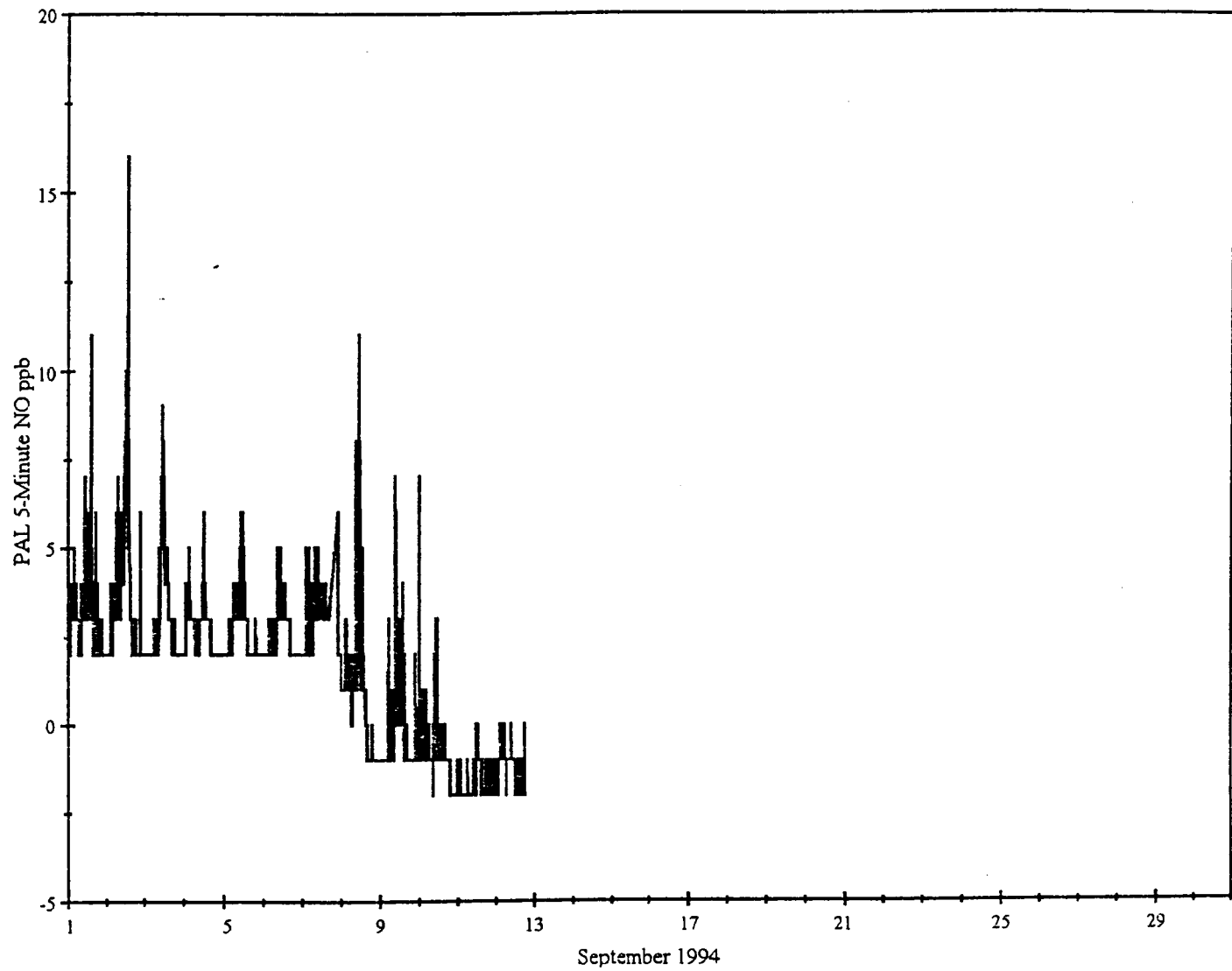


Figure C-10. September 1994 time series of raw 5-minute NO data at Pass-A-Loutre. Hourly averaged data are listed in Table C-20.

Table C-20.  
 CSI Station Pass-A-Loutre, Louisiana  
 September 1994 NO ppb

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	1	2	1	2	1	1	0	1	1	3	1	2	2	3	1	1	2	1	1	0	0	0	0
2	0	0	0	0	1	1	2	3	2	3	3	3	6	7	5	1	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	2	2	6	4	2	2	1	1	0	0	0	0	0	0	0
4	0	1	1	1	1	1	1	0	1	1	1	1	3	1	1	1	0	0	0	0	0	0	0	0
5	0	0	0	0	0	1	1	1	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
6	0	0	0	1	1	1	1	1	1	2	2	1	2	1	1	1	1	0	0	0	0	0	0	0
7	0	0	1	1	1	1	1	1	1	1	2	2	2	2	1	1	Cal	Cal	Cal	Cal	Cal	Cal	1	0
8	0	0	0	0	0	0	0	0	0	1	1	3	1	1	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-32

Cal - Calibration

QD - Questionable Data

Miss - Monitor Offline

Maximum Concentration 7 ppb on 2 September @ 1300UTC



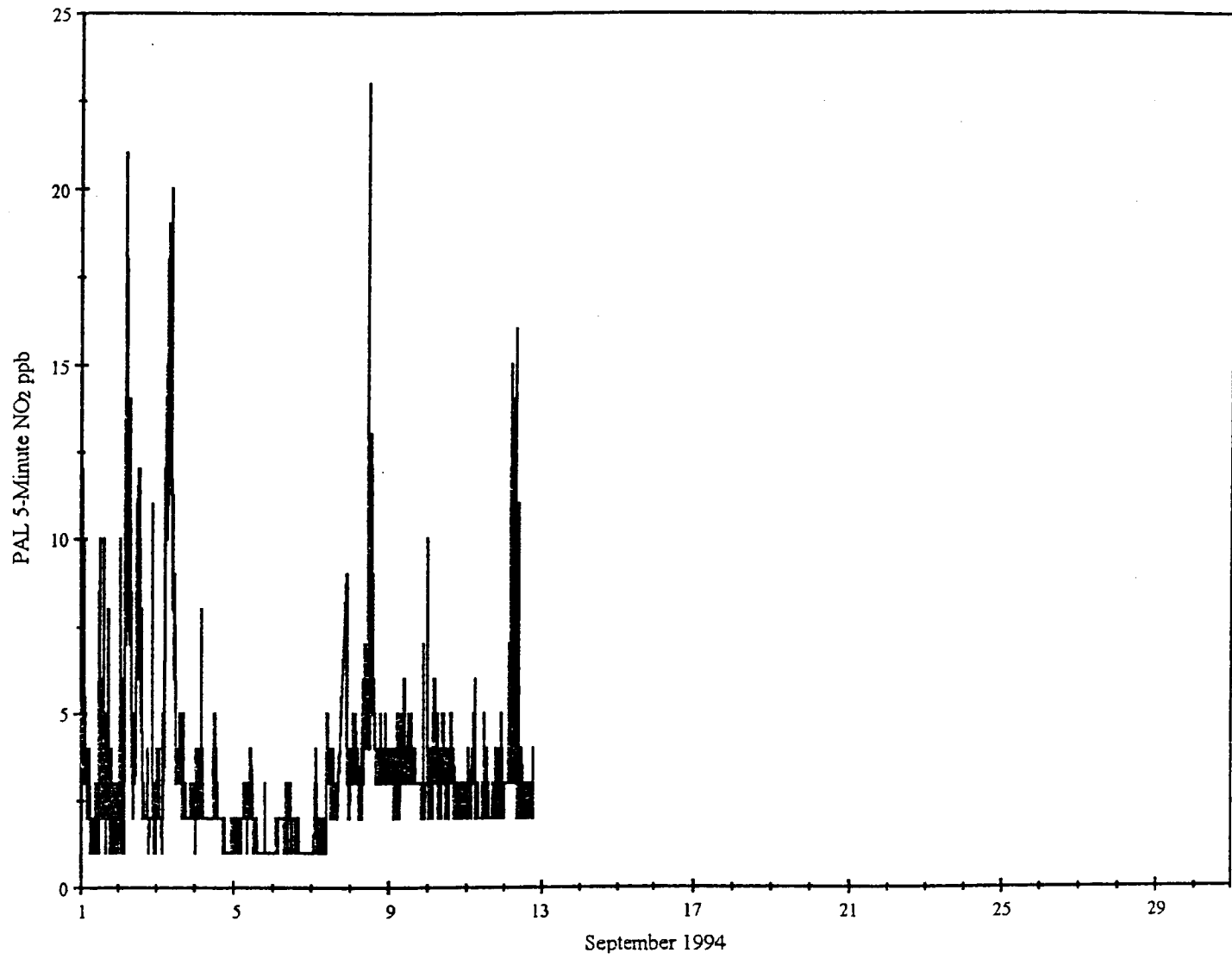


Figure C-11. September 1994 time series of raw 5-minute NO<sub>2</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-21.

**Table C-21.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 NO<sub>2</sub> ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2	4	5	2	2	3	1	0	0	1	1	1	5	2	3	2	1	4	1	2	1	0	0	1
2	2	6	1	1	8	11	10	8	5	2	2	6	9	8	5	2	1	1	1	1	1	2	1	1
3	2	2	1	1	2	6	12	11	14	14	8	7	3	2	3	3	2	1	1	1	1	1	1	1
4	1	2	2	1	4	1	1	1	1	1	1	2	3	2	1	1	1	1	0	0	0	0	0	1
5	1	1	0	0	1	1	2	1	1	1	2	2	1	0	0	0	0	0	0	1	0	0	0	0
6	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
7	0	0	1	1	1	1	0	0	0	2	3	3	1	2	2	2	Cal	Cal	Cal	Cal	Cal	Cal	2	1
8	1	1	2	2	1	1	1	1	2	3	3	9	4	9	4	3	2	1	2	1	1	1	1	1
9	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
10	2	1	1	2	2	1	1	2	1	2	2	1	1	1	2	2	1	1	1	0	0	0	0	1
11	1	1	1	1	2	1	0	0	0	0	0	2	1	1	0	0	0	0	0	0	1	1	1	1
12	1	1	1	3	5	2	5	5	2	5	1	1	1	0	0	1	0	0	1	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-34

Cal - Calibration  
 Maximum Concentration 14 ppb on 3 September @ 0800 and 0900UTC

QD - Questionable Data

Miss - Monitor Offline

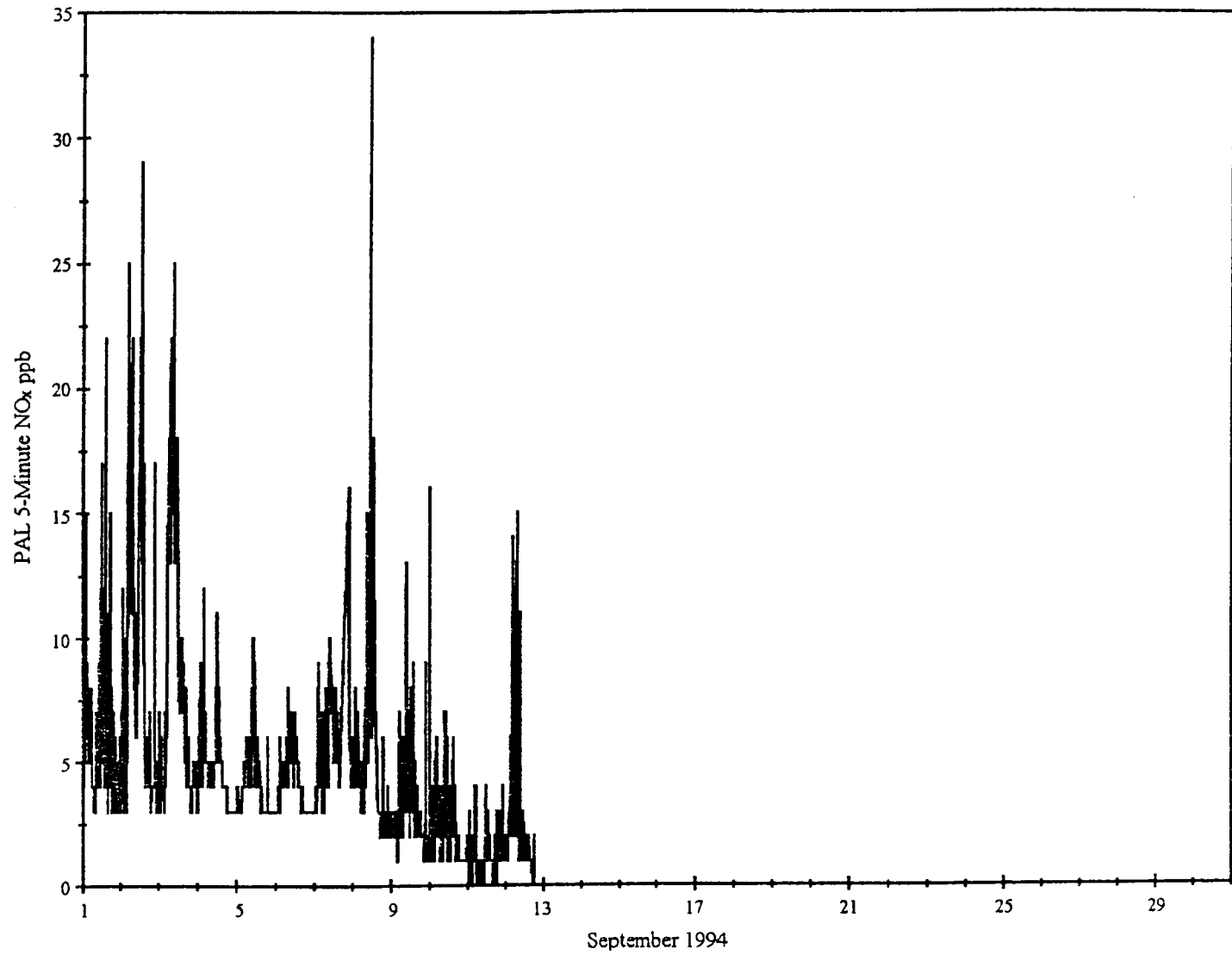


Figure C-12. September 1994 time series of raw 5-minute NO<sub>x</sub> data at Pass-A-Loutre. Hourly averaged data are listed in Table C-22.

**Table C-22.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 NO<sub>x</sub> ppb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3	6	7	5	4	5	3	1	2	3	5	4	8	5	7	4	3	7	3	4	1	1	1	2
2	3	7	2	3	10	13	14	12	8	6	6	10	16	16	12	4	3	2	2	2	2	4	2	1
3	3	2	2	2	3	7	13	13	16	17	12	13	8	6	6	6	4	3	2	2	2	2	2	
4	2	5	4	4	6	3	3	2	2	2	4	6	4	3	2	2	2	2	1	1	1	1	1	
5	1	1	1	1	2	3	4	3	3	4	6	5	3	2	2	1	1	1	2	1	1	1	1	
6	1	1	2	2	2	2	2	2	3	4	4	3	4	3	3	2	2	1	1	1	1	1	1	
7	1	1	3	3	2	2	2	3	3	4	7	6	4	5	5	4	Cal	Cal	Cal	Cal	Cal	Cal	3	
8	1	0	2	1	0	0	0	1	2	4	4	12	5	11	4	1	0	0	0	0	0	0	0	
9	0	0	0	0	0	1	0	0	0	3	2	0	1	2	1	0	0	0	0	0	0	0	0	
10	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	3	0	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	

Cal - Calibration  
 Maximum Concentration 17 ppb on 3 September @ 0900UTC

QD - Questionable Data  
 Miss - Monitor Offline

C-36

**Table C-23.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 Wind Speeds m s<sup>-1</sup>**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.2	0.1	0.0	0.0	0.0	0.0	2.8	0.8	0.3	0.0	0.0	0.5	1.0	1.3	2.1	2.1	1.7	1.8	1.9	1.7	2.7	3.0	3.0	3.2
2	1.9	1.5	1.2	1.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	2.4	2.5	2.2	1.7	2.6	1.0	0.9	1.1	2.0	1.9
3	1.9	2.9	3.3	2.4	2.8	2.1	1.8	1.8	1.4	1.3	0.8	1.1	1.3	2.0	2.0	2.0	2.8	3.0	3.2	2.7	3.0	2.5	2.2	1.8
4	0.2	0.0	0.0	0.4	0.9	0.7	2.2	1.9	1.5	1.5	1.3	0.8	0.6	1.3	2.2	3.3	3.4	3.8	3.5	3.2	3.0	2.7	2.5	2.6
5	1.8	2.2	2.1	1.5	1.6	2.6	1.7	1.5	1.1	0.3	0.1	0.3	1.6	2.0	1.9	1.7	1.7	1.5	1.9	1.8	2.3	2.2	2.4	2.0
6	1.2	1.0	0.3	0.2	0.5	0.7	1.1	0.2	0.3	0.3	0.5	0.4	0.6	1.1	1.3	1.4	2.1	2.3	2.5	2.4	2.5	2.1	1.8	1.4
7	0.1	0.0	0.0	0.0	0.3	0.5	0.5	0.0	0.0	0.3	0.0	0.2	0.2	0.2	0.5	0.5	0.5	Cal	Cal	Cal	Cal	Cal	Cal	1.5
8	0.6	0.3	0.0	0.0	0.0	0.3	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.5	1.1	1.2	1.0	2.2	2.5	2.6	2.5	1.7
9	1.2	0.7	0.7	1.1	0.6	0.0	0.3	0.3	0.1	0.0	0.2	0.3	0.0	0.2	0.2	0.7	1.2	1.7	2.1	2.4	2.7	2.3	1.9	1.1
10	0.3	0.1	1.1	0.6	0.7	0.3	1.5	1.0	0.3	0.0	0.2	0.9	1.3	1.1	1.0	2.1	1.6	1.3	1.7	2.7	2.0	2.1	2.2	2.0
11	0.7	0.2	1.7	2.1	1.4	1.3	1.6	1.9	1.9	1.2	1.1	0.1	0.6	1.4	2.1	2.9	3.9	3.3	4.8	4.2	4.2	2.9	1.9	1.4
12	0.7	1.1	1.0	1.5	1.2	1.6	1.9	1.5	1.4	1.2	2.6	2.4	2.0	2.9	3.2	4.4	5.0	4.2	4.3	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-37

Maximum Speed 5.0 m s<sup>-1</sup> from 81° on 12 September @ 1600UTC

**Table C-24.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 Wind Directions**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	225	217	217	217	217	217	151	150	147	143	143	254	228	225	220	248	265	255	241	217	206	203	208	226
2	243	243	252	278	324	340	340	340	340	340	340	340	349	330	324	333	343	328	334	352	131	233	247	245
3	265	267	325	304	311	330	323	312	312	319	330	344	13	20	13	15	3	348	338	339	345	347	2	22
4	21	21	21	95	90	65	57	56	48	49	47	32	20	17	19	25	43	39	47	46	52	49	51	60
5	58	55	57	62	76	86	82	84	75	66	53	49	56	61	60	55	71	69	79	73	54	66	68	59
6	58	60	79	40	63	81	85	92	65	12	23	20	16	24	38	46	75	79	82	78	85	83	74	84
7	98	98	98	98	165	163	135	135	324	332	332	40	66	29	20	19	10	Cal	Cal	Cal	Cal	Cal	Cal	108
8	120	123	158	125	133	155	162	167	150	150	150	150	337	7	33	14	351	31	143	80	92	84	100	101
9	111	109	110	129	167	168	159	167	175	175	13	14	9	35	44	18	27	55	83	88	104	111	104	101
10	90	52	59	98	98	110	155	88	72	72	32	163	66	107	97	91	81	110	70	68	71	81	85	85
11	64	51	50	47	81	96	113	120	114	110	107	65	41	71	71	69	34	61	90	88	91	93	94	86
12	64	57	79	82	87	75	92	87	95	91	84	83	76	74	71	78	81	66	69	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-38

**Table C-25.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 Air Temperatures °C**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	28.2	27.3	26.6	25.9	25.8	26.0	26.3	23.4	24.7	24.7	25.4	25.4	26.6	28.3	29.0	29.4	29.9	30.0	29.9	29.6	29.4	29.4	29.0	28.4
2	27.9	27.6	27.5	27.5	27.1	26.4	25.6	25.6	26.0	26.0	26.2	26.0	26.4	28.2	28.3	28.4	29.3	29.9	29.4	27.8	29.0	29.2	30.3	29.3
3	28.4	28.2	27.9	25.8	26.5	26.5	25.9	25.9	25.8	25.7	25.8	26.1	26.3	27.6	28.6	28.8	29.0	28.7	28.7	29.0	28.6	29.0	29.0	28.7
4	27.5	26.3	26.3	26.0	26.3	26.2	26.6	26.6	26.5	26.5	26.2	25.9	25.8	27.2	27.2	28.5	27.6	28.1	28.2	28.4	28.1	28.0	27.5	27.0
5	26.0	25.4	25.3	25.3	25.0	25.9	25.8	25.0	24.8	24.4	24.1	23.7	24.4	26.2	27.8	28.5	28.1	29.4	29.0	29.1	28.8	28.7	28.3	27.6
6	26.7	25.6	25.4	24.6	24.7	25.0	25.0	25.0	24.7	24.5	24.7	24.3	24.7	27.3	27.5	29.3	29.4	29.6	29.3	29.6	29.6	29.1	29.3	28.7
7	27.6	25.8	25.3	25.2	25.6	25.5	25.0	25.0	25.3	25.4	25.4	25.1	25.1	27.8	29.3	29.7	29.9	Cal	Cal	Cal	Cal	Cal	Cal	Cal
8	27.6	26.6	26.3	26.0	25.8	26.0	25.7	25.9	26.0	25.7	25.4	25.6	25.6	28.0	29.0	29.7	30.3	29.2	30.5	30.4	30.2	29.7	29.2	28.5
9	27.6	26.8	26.7	26.6	26.5	26.7	26.3	26.1	26.4	26.1	25.7	25.7	25.8	28.5	30.7	31.1	30.3	29.8	30.1	29.9	29.9	29.7	29.2	28.7
10	27.5	26.8	26.5	26.9	26.3	26.5	26.5	24.3	25.8	26.1	26.5	26.5	25.4	24.9	26.3	26.8	28.2	29.0	30.3	29.7	29.0	28.2	28.2	27.5
11	26.9	26.2	25.8	25.3	26.0	26.3	26.6	26.6	26.6	26.5	26.4	25.9	25.8	28.3	28.4	28.9	27.7	26.3	26.5	27.0	27.2	27.9	27.5	27.1
12	26.5	25.9	25.8	25.7	25.8	25.8	26.1	26.1	26.4	26.1	26.3	26.6	26.5	28.0	28.7	29.0	28.9	27.8	26.6	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-39

**Table C-26.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 Pressure mb**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1024	1024	1024	1024	1023	1022	1022	1022	1022
2	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1023	1023	1024	1024	1024	1025	1025	1025	1024	1024	1023	1022	1022	1022
3	1022	1022	1023	1023	1023	1023	1023	1023	1023	1022	1023	1023	1023	1024	1024	1024	1024	1024	1023	1022	1022	1021	1021	1021
4	1021	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1024	1024	1023	1023	1022	1022	1022	1022
5	1022	1022	1023	1023	1024	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1024	1024	1024	1023	1022	1022	1022
6	1022	1022	1022	1023	1023	1023	1023	1023	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1023	1022	1022	1021	1021	1020
7	1020	1021	1021	1022	1022	1021	1021	1020	1020	1021	1021	1021	1022	1022	1022	1022	1022	Cal	Cal	Cal	Cal	Cal	Cal	Cal
8	1019	1020	1020	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019
9	1019	1019	1020	1020	1020	1020	1020	1020	1019	1019	1020	1020	1020	1021	1020	1021	1021	1021	1021	1020	1020	1019	1019	1020
10	1020	1020	1020	1020	1021	1021	1021	1021	1019	1020	1020	1020	1021	1021	1022	1022	1022	1022	1021	1021	1021	1020	1021	1021
11	1021	1022	1023	1022	1022	1022	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1023	1023	1023	1022	1022	1021	1021	1022
12	1022	1022	1023	1023	1023	1022	1022	1021	1022	1022	1022	1022	1023	1023	1023	1023	1023	1024	1023	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C-40



**Table C-27.**  
**CSI Station Pass-A-Loutre, Louisiana**  
**September 1994 Relative Humidity %**

Day	Hour UTC																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	83.0	88.0	94.8	99.5	99.3	100.0	98.0	91.6	89.4	93.8	95.8	99.1	93.6	85.6	81.2	77.7	72.9	71.5	72.1	74.4	75.4	75.5	76.3	80.2
2	81.6	83.9	86.8	87.9	90.4	90.5	97.7	99.0	97.8	98.3	97.3	100.0	100.0	92.3	85.7	84.6	81.5	75.5	77.4	88.3	80.8	79.2	74.9	79.5
3	84.6	85.1	84.9	91.9	90.5	90.3	94.5	99.2	100.0	100.0	100.0	100.0	98.0	92.3	87.0	84.8	84.4	86.3	85.9	82.0	80.1	78.5	77.1	81.0
4	84.1	93.1	92.0	98.5	93.5	95.6	88.3	85.4	85.8	85.6	91.4	91.8	93.1	87.8	84.9	78.3	86.3	83.3	84.2	86.9	91.9	88.3	89.6	91.8
5	90.0	90.7	89.0	89.8	91.5	88.1	87.1	88.5	91.2	92.5	94.0	98.1	97.3	88.0	80.7	73.0	75.3	74.7	80.8	72.8	74.4	74.5	75.6	80.0
6	82.0	88.1	89.9	95.5	97.7	96.3	95.8	97.5	98.8	99.6	99.8	100.0	100.0	91.6	85.8	76.3	72.8	69.7	69.7	68.9	70.9	68.9	68.2	70.4
7	77.9	90.5	95.8	95.5	95.4	96.0	97.6	98.6	100.0	100.0	99.8	100.0	100.0	95.3	85.7	79.6	75.1	Cal	Cal	Cal	Cal	Cal	Cal	Cal
8	89.5	94.1	94.7	96.4	97.2	97.0	97.7	97.2	95.9	97.8	99.2	100.0	100.0	94.3	88.1	100.0	100.0	100.0	92.1	85.9	76.2	75.1	80.4	82.7
9	86.9	90.8	93.0	94.0	93.9	92.6	94.9	96.4	95.7	96.8	99.3	100.0	100.0	97.6	87.3	78.0	75.9	80.3	77.9	76.6	74.9	74.9	77.9	78.7
10	84.7	91.1	95.0	92.8	96.0	96.1	96.1	98.0	100.0	100.0	100.0	100.0	93.9	94.6	95.9	94.8	87.3	86.9	81.3	79.3	87.1	97.0	97.1	96.6
11	94.8	97.2	99.0	99.5	100.0	99.2	99.6	98.3	97.1	96.8	98.6	98.0	99.7	95.8	91.0	87.3	87.3	94.6	95.5	94.0	95.8	93.2	92.1	92.3
12	92.9	94.7	95.8	96.2	94.5	95.2	95.7	96.1	96.3	95.8	95.9	95.2	94.2	92.2	88.7	85.3	86.9	87.9	94.2	Miss	Miss	Miss	Miss	Miss
13	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
14	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
16	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
17	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
18	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
19	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
20	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
21	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
23	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
24	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
25	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
26	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
27	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
28	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
29	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
30	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

C41

**APPENDIX D**  
**RADIOSONDE DATA**



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAIRSO1

Radiosonde  Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetron \_\_\_\_\_

Date 8/24/94 Ob Time 1155 CDT

Site Grosier Island, LA

Observer Blanchard

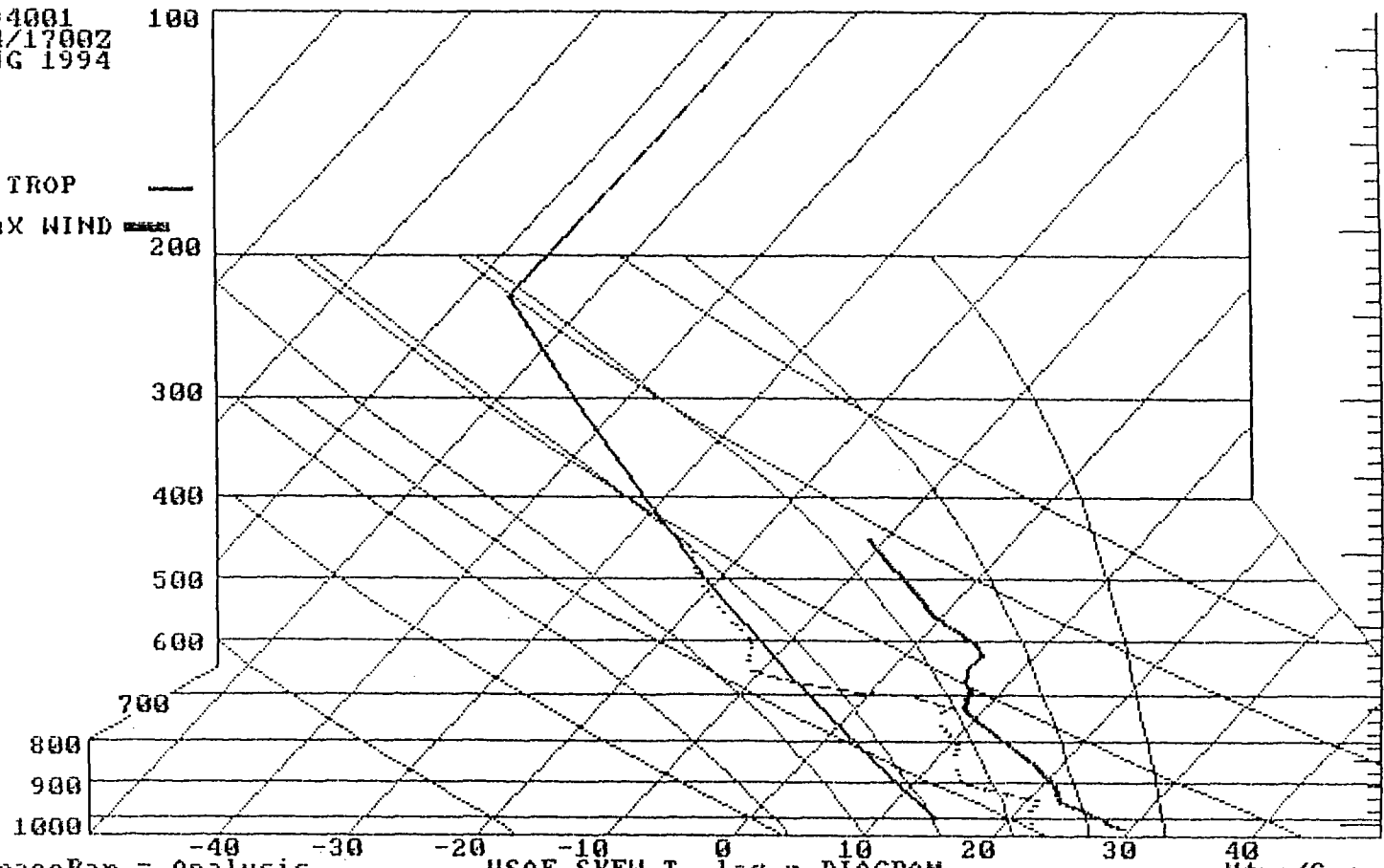
Barometric Pressure: 1017.6 \* mBars  
Dry-Bulb Temperature: 29.9 degrees C  
Wet-Bulb Temperature: 24.9 degrees C  
Relative Humidity: \_\_\_\_\_ percent  
Wind Speed: 10-15 est  knots mph  m/s  
Wind Direction: E est degrees  T  
Sonde Battery Voltage: 9.46 VDC  
Actual Time of Launch: 1216 CDT

Comments: (Cloud cover, type, flight description, etc.)

CLR, haze  
H.V.U. 10387 R.D.U. 78.15  
Launch delayed due to problems between  
ADAS and computer.  
\* Pressure is from A.I.R. barometer and needs  
to be corrected. + 6.2 mb - 1023.8  
Additional Comments on Back

94001  
24/1700Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...

USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-4

Station Number: 94001

DTG of RAOB: 24/1700Z AUG 1994

Indices		Sfc Data: 1024mb T= 29.2°C Td= 22.2°C		Heights	
SSI	= 3.0		-292ft	Sfc Wind: 999/0-1kt	100mb = MISG
RO	= -9.9	Adiabatic Processes			150mb = MISG
R Index	= 30.4	Wet Bulb Zero	= 625mb	--	200mb = MISG
Lifted Index	= -1.5	LCL	= 925mb	20.6°C	250mb = MISG
Sweat Index	= Missing	LFC	= 850mb	17.4°C	300mb = MISG
Total-Totals	= 40.6	CCL	= 894mb	20.0°C	400mb = MISG
U Totals	= 23.3	Tc	= --	31.6°C	500mb = 5960M
X Totals	= 17.3	CCL E.L.	= None	--	700mb = 3252M
Fog SI	= Missing	LFC E.L.	= 625mb	5.8°C	850mb = 1631M
Fog Threat	= 1.1	850mb WBPT	= --	19.9°C	1000mb = 214M
Fog Point	= 18.8°C				

Inversion Layers	Type	Break	Freezing Levels
650- 625mb	11774-12768ft Subs	48.0°C	564mb 15350ft

Thickness	
500-300mb	= MISG
700-500mb	= 2708M
850-500mb	= 4329M
850-700mb	= 1621M
1000-500mb	= 5746M
1000-700mb	= 3038M
1000-850mb	= 1417M

Max Wind  
None Reported

Icing Layers		
Base	Top	Intensity
None		

Turbulence Layers		
Base	Top	Shear
None		

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKREW T Analysis

(All Heights MSL)

D-5

**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
29.25	66.5	1023.8	2.00	27.22	16.85
28.97	66.6	1023.4	5.49	26.98	16.61
29.15	67.3	1023.3	6.37	27.17	16.97
29.16	66.4	1022.9	9.86	27.21	16.75
28.90	66.0	1021.6	21.22	27.06	16.42
28.78	66.4	1020.2	33.46	27.06	16.42
28.67	66.9	1019.0	43.96	27.05	16.46
28.47	67.6	1017.8	54.47	26.95	16.46
28.36	67.9	1016.5	65.87	26.95	16.45
28.34	68.2	1015.5	74.64	27.02	16.52
28.20	68.5	1014.0	87.81	27.00	16.49
28.17	68.0	1012.7	99.24	27.08	16.35
28.02	68.2	1011.3	111.56	27.05	16.28
27.93	68.3	1010.1	122.12	27.07	16.24
27.82	68.4	1008.9	132.70	27.06	16.17
27.63	68.9	1007.4	145.93	27.00	16.14
27.49	69.6	1006.1	157.41	26.97	16.19
27.36	70.2	1004.7	169.78	26.96	16.23
27.19	70.6	1003.4	181.27	26.90	16.18
27.12	70.5	1001.8	195.44	26.97	16.11
27.12	70.8	1000.8	204.30	27.05	16.20
27.03	70.7	999.7	214.06	27.06	16.11
26.88	71.8	998.6	223.83	27.00	16.24
26.76	72.3	997.3	235.38	26.99	16.26
26.63	72.6	996.0	246.93	26.97	16.22
26.48	73.0	994.7	258.50	26.94	16.19
26.40	73.4	993.6	268.30	26.95	16.22
26.30	73.9	992.0	282.57	26.99	16.26
26.17	73.9	990.9	292.39	26.95	16.15
26.11	74.0	989.7	303.10	27.00	16.13
26.03	74.1	988.5	313.83	27.02	16.10
25.88	74.6	987.5	322.78	26.96	16.08
25.73	75.1	986.0	336.21	26.94	16.07
25.67	75.9	984.8	346.97	26.98	16.21
25.52	76.5	983.3	360.43	26.96	16.21
25.33	76.9	981.9	373.00	26.89	16.14
25.15	77.5	980.2	388.28	26.86	16.12
25.01	77.6	978.6	402.68	26.86	16.03
25.03	77.4	977.4	413.49	26.99	16.03
24.94	76.9	976.3	423.41	26.99	15.85
24.83	76.8	974.9	436.05	27.00	15.75
24.70	77.0	973.9	445.09	26.96	15.68
24.61	78.1	972.6	456.84	26.99	15.84
24.52	78.1	971.1	470.42	27.03	15.78

**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
24.31	79.3	970.0	480.38	26.91	15.84
24.26	79.6	968.5	493.99	26.99	15.88
24.20	80.0	967.3	504.88	27.04	15.93
24.07	80.7	966.2	514.88	27.01	15.96
23.96	79.7	964.6	529.43	27.04	15.68
23.81	80.8	963.0	544.00	27.03	15.78
23.62	80.9	961.6	556.76	26.96	15.64
23.58	81.5	960.2	569.54	27.05	15.74
23.46	82.6	958.9	581.41	27.04	15.86
23.32	83.5	957.3	596.05	27.04	15.93
23.23	84.8	956.0	607.95	27.07	16.12
23.08	85.0	954.4	622.62	27.06	16.03
22.95	85.6	952.8	637.31	27.07	16.05
22.77	86.7	951.5	649.25	27.01	16.10
22.53	90.4	950.1	662.13	26.89	16.58
22.34	89.3	948.6	675.93	26.83	16.21
22.44	84.3	947.3	687.91	27.05	15.40
22.51	71.2	945.9	700.81	27.25	13.03
22.97	65.4	944.6	712.82	27.84	12.31
23.06	65.0	943.5	722.99	28.03	12.32
22.98	64.7	942.2	735.04	28.07	12.21
22.89	65.0	940.8	748.02	28.10	12.22
22.73	65.4	939.6	759.16	28.05	12.19
22.62	66.0	938.4	770.30	28.05	12.24
22.57	66.4	937.3	780.53	28.10	12.29
22.47	66.7	935.9	793.57	28.12	12.29
22.39	66.7	934.7	804.75	28.15	12.25
22.34	66.9	933.6	815.01	28.20	12.26
22.22	67.3	932.5	825.28	28.18	12.26
22.13	67.1	931.2	837.43	28.21	12.17
22.09	67.3	930.0	848.65	28.28	12.20
22.02	68.6	928.6	861.77	28.34	12.40
21.94	68.5	927.5	872.09	28.36	12.34
21.84	68.5	926.3	883.35	28.37	12.28
21.80	68.9	925.2	893.68	28.43	12.33
21.75	68.6	923.9	905.91	28.50	12.26
21.79	68.6	922.9	915.33	28.64	12.30
21.76	68.4	921.5	928.53	28.74	12.26
21.70	68.3	920.6	937.03	28.76	12.21
21.68	66.6	919.4	948.37	28.85	11.90
21.64	64.5	918.2	959.72	28.92	11.50
21.65	63.9	917.1	970.14	29.04	11.42
21.60	63.3	915.8	982.46	29.11	11.29
21.55	62.9	914.8	991.95	29.15	11.19

CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
21.40	62.8	913.4	1005.25	29.13	11.09
21.33	62.8	912.5	1013.80	29.14	11.05
21.29	62.9	911.4	1024.27	29.21	11.06
21.25	63.0	910.4	1033.79	29.26	11.06
21.17	62.9	909.2	1045.23	29.29	11.00
21.05	62.9	908.1	1055.73	29.27	10.93
20.96	63.0	906.8	1068.14	29.31	10.90
20.89	63.1	905.9	1076.75	29.32	10.88
20.81	63.2	904.7	1088.23	29.35	10.86
20.77	63.3	903.9	1095.89	29.39	10.86
20.69	63.3	902.7	1107.39	29.42	10.82
20.60	63.4	901.5	1118.91	29.44	10.79
20.58	63.5	900.7	1126.59	29.50	10.81
20.49	63.5	899.6	1137.17	29.51	10.76
20.32	63.8	898.4	1148.71	29.45	10.71
20.27	64.4	897.4	1158.34	29.50	10.79
20.22	64.9	896.5	1167.01	29.53	10.85
20.10	65.5	895.4	1177.62	29.51	10.89
20.07	66.0	894.4	1187.28	29.58	10.96
20.01	66.2	893.7	1194.04	29.59	10.97
19.97	66.1	892.4	1206.61	29.67	10.94
19.92	66.3	891.4	1216.30	29.72	10.95
19.87	66.5	890.2	1227.93	29.78	10.96
19.73	67.0	889.2	1237.63	29.73	10.96
19.73	67.2	888.5	1244.43	29.80	11.00
19.59	67.6	887.2	1257.06	29.78	10.99
19.57	67.7	886.3	1265.81	29.85	11.00
19.53	67.8	885.1	1277.50	29.93	11.01
19.43	67.8	884.0	1288.22	29.93	10.95
19.36	67.8	882.9	1298.96	29.97	10.92
19.31	67.6	881.9	1308.72	30.01	10.86
19.28	67.2	880.9	1318.50	30.08	10.79
19.22	67.3	879.9	1328.28	30.12	10.78
19.13	66.9	878.7	1340.04	30.14	10.67
19.06	66.6	877.6	1350.82	30.18	10.58
19.04	66.1	876.6	1360.63	30.26	10.50
19.00	65.7	875.4	1372.42	30.33	10.43
18.98	65.6	874.3	1383.24	30.42	10.41
18.85	65.6	873.5	1391.12	30.37	10.33
18.78	65.4	872.0	1405.90	30.44	10.27
18.75	64.9	871.2	1413.79	30.49	10.18
18.68	64.1	869.9	1426.63	30.55	10.03
18.68	63.9	869.0	1435.52	30.64	10.01
18.69	63.8	867.7	1448.39	30.78	10.01



**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
18.57	63.5	866.7	1458.30	30.75	9.90
18.58	62.9	865.6	1469.21	30.87	9.82
18.48	62.5	864.4	1481.12	30.89	9.71
18.41	62.6	863.3	1492.05	30.93	9.70
18.36	62.8	862.3	1502.00	30.98	9.71
18.30	63.1	861.3	1511.96	31.02	9.73
18.23	63.7	859.8	1526.92	31.09	9.80
18.17	64.4	858.7	1537.90	31.14	9.88
18.09	65.6	857.7	1547.89	31.16	10.03
18.04	66.6	856.4	1560.90	31.24	10.17
17.90	67.6	855.4	1570.92	31.20	10.24
17.79	67.9	854.5	1579.94	31.17	10.23
17.69	67.8	852.9	1596.00	31.23	10.17
17.59	68.1	851.5	1610.07	31.27	10.17
17.51	68.7	850.7	1618.12	31.27	10.21
17.38	69.0	849.4	1631.20	31.26	10.19
17.27	69.6	848.2	1643.30	31.27	10.22
17.16	69.9	847.1	1654.40	31.27	10.21
17.07	70.4	846.0	1665.51	31.29	10.24
17.01	71.2	844.6	1679.66	31.37	10.33
16.84	72.4	843.5	1690.80	31.30	10.41
16.70	73.3	842.3	1702.95	31.28	10.46
16.65	73.9	841.1	1715.13	31.35	10.53
16.54	74.6	839.9	1727.31	31.36	10.57
16.41	76.4	838.7	1739.51	31.35	10.75
16.34	76.6	837.6	1750.71	31.39	10.75
16.33	76.3	836.4	1762.93	31.50	10.71
16.22	76.1	835.2	1775.18	31.51	10.63
15.99	76.5	833.9	1788.45	31.41	10.54
15.93	77.2	832.9	1798.67	31.45	10.61
15.90	79.0	831.7	1810.95	31.54	10.86
15.83	79.8	830.5	1823.24	31.60	10.93
15.80	80.8	829.4	1834.53	31.68	11.07
15.89	78.3	828.2	1846.86	31.90	10.80
15.84	76.7	827.1	1858.17	31.96	10.55
15.82	74.7	825.8	1871.56	32.08	10.28
15.74	73.4	824.6	1883.94	32.12	10.06
15.68	72.5	823.5	1895.29	32.18	9.91
15.64	71.4	822.3	1907.69	32.26	9.74
15.53	70.1	821.2	1919.07	32.26	9.51
15.49	68.5	820.0	1931.50	32.35	9.28
15.46	68.8	818.9	1942.90	32.43	9.31
15.41	68.9	817.6	1956.40	32.52	9.31
15.28	68.7	816.3	1969.91	32.52	9.22

**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
15.26	68.6	815.2	1981.36	32.62	9.21
15.13	68.3	814.1	1992.82	32.60	9.10
15.03	68.5	812.9	2005.33	32.62	9.08
15.04	69.1	811.7	2017.87	32.76	9.18
14.84	69.4	810.6	2029.36	32.66	9.12
14.73	70.0	809.5	2040.87	32.67	9.14
14.58	70.8	808.2	2054.49	32.65	9.17
14.45	71.5	807.1	2066.02	32.63	9.20
14.38	71.9	805.8	2079.66	32.70	9.23
14.24	73.1	804.6	2092.28	32.68	9.31
14.10	74.6	803.4	2104.90	32.66	9.43
14.05	75.4	802.3	2116.48	32.73	9.52
14.01	77.4	801.3	2127.03	32.79	9.76
13.78	79.1	799.9	2141.81	32.70	9.84
13.74	79.5	798.9	2152.38	32.77	9.88
13.59	79.8	797.7	2165.07	32.74	9.84
13.45	79.9	796.3	2179.90	32.74	9.77
13.34	79.7	795.2	2191.56	32.75	9.69
13.22	80.1	794.0	2204.30	32.75	9.68
13.16	80.0	792.8	2217.05	32.82	9.64
13.07	80.0	791.7	2228.75	32.84	9.60
12.93	79.9	790.6	2240.47	32.82	9.51
12.82	79.6	789.5	2252.19	32.82	9.42
12.74	79.8	788.4	2263.93	32.86	9.41
12.70	79.9	787.2	2276.74	32.95	9.41
12.57	80.2	786.1	2288.51	32.93	9.38
12.49	80.3	784.9	2301.36	32.98	9.35
12.43	79.7	783.9	2312.07	33.02	9.26
12.34	79.4	782.6	2326.02	33.07	9.18
12.23	79.1	781.7	2335.69	33.06	9.09
12.14	79.4	780.5	2348.59	33.09	9.09
12.07	78.1	779.3	2361.51	33.15	8.91
12.04	74.5	778.2	2373.36	33.25	8.49
12.04	73.0	777.1	2385.23	33.37	8.32
11.98	72.3	775.0	2407.93	33.54	8.23
11.85	72.5	773.8	2420.93	33.54	8.20
11.80	73.1	772.8	2431.77	33.60	8.25
11.74	72.8	771.8	2442.62	33.65	8.19
11.78	70.9	770.6	2455.66	33.83	8.01
11.69	69.6	769.3	2469.81	33.88	7.83
11.66	69.0	768.1	2482.89	33.98	7.76
11.60	68.6	767.2	2492.71	34.02	7.69
11.45	68.7	765.7	2509.09	34.03	7.64
11.36	69.2	764.5	2522.21	34.07	7.66

### CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
11.27	69.7	763.5	2533.16	34.09	7.68
11.11	69.9	762.2	2547.41	34.07	7.63
10.98	73.0	760.9	2561.68	34.08	7.92
10.85	74.0	759.6	2575.97	34.09	7.97
10.70	74.6	758.2	2591.37	34.09	7.97
10.57	74.8	757.0	2604.59	34.08	7.94
10.43	75.5	755.4	2622.25	34.12	7.96
10.29	76.0	754.4	2633.29	34.08	7.94
10.18	77.3	753.1	2647.67	34.11	8.04
10.01	79.1	751.8	2662.06	34.08	8.14
9.92	81.8	750.6	2675.37	34.12	8.39
9.81	82.5	749.4	2688.69	34.15	8.41
9.67	83.8	748.0	2704.25	34.16	8.48
9.43	84.5	746.7	2718.72	34.05	8.43
9.40	86.0	745.7	2729.86	34.14	8.58
9.30	87.6	744.4	2744.37	34.18	8.69
9.18	88.1	743.3	2756.65	34.18	8.69
9.00	88.3	742.3	2767.84	34.10	8.61
8.89	89.3	741.1	2781.26	34.12	8.66
8.81	90.2	739.9	2794.71	34.18	8.71
8.71	91.2	738.7	2808.18	34.21	8.76
8.57	91.8	737.6	2820.53	34.19	8.75
8.39	92.4	736.3	2835.15	34.15	8.72
8.33	92.6	735.5	2844.16	34.18	8.71
8.20	93.2	734.3	2857.68	34.18	8.70
8.18	93.7	733.3	2868.96	34.28	8.75
8.18	94.2	731.9	2884.78	34.45	8.82
8.21	94.3	731.0	2894.97	34.59	8.85
8.20	94.4	729.9	2907.44	34.71	8.87
8.16	94.3	728.8	2919.93	34.80	8.85
8.12	94.2	727.8	2931.29	34.88	8.83
8.17	94.1	726.8	2942.67	35.05	8.86
8.17	94.1	725.9	2952.93	35.16	8.87
8.16	94.0	724.7	2966.63	35.30	8.87
8.03	93.8	723.8	2976.91	35.26	8.79
8.00	93.1	722.7	2989.50	35.36	8.71
8.11	91.6	721.3	3005.54	35.66	8.65
8.20	89.2	720.7	3012.43	35.83	8.48
8.18	88.5	719.6	3025.07	35.94	8.42
8.17	87.9	718.7	3035.43	36.04	8.37
8.12	87.4	717.7	3046.95	36.11	8.30
8.03	85.8	715.7	3070.04	36.26	8.12
7.96	85.4	714.5	3083.92	36.33	8.06
7.91	85.5	713.4	3096.66	36.41	8.05

**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
7.90	85.6	712.6	3105.93	36.50	8.06
7.82	85.5	711.4	3119.86	36.56	8.02
7.72	85.6	710.4	3131.49	36.57	7.99
7.65	84.5	709.4	3143.12	36.62	7.86
7.61	82.5	708.1	3158.27	36.74	7.66
7.66	79.4	707.3	3167.60	36.90	7.40
7.66	74.0	706.3	3179.28	37.02	6.91
7.62	71.8	705.4	3189.80	37.09	6.69
7.61	72.1	704.3	3202.68	37.22	6.72
7.52	72.6	703.1	3216.75	37.27	6.74
7.53	73.9	702.2	3227.32	37.39	6.87
7.40	73.8	701.0	3241.43	37.40	6.82
7.37	74.2	700.1	3252.02	37.48	6.85
7.34	74.2	699.0	3264.98	37.59	6.84
7.33	72.0	698.0	3276.79	37.71	6.64
7.32	71.3	696.8	3290.97	37.85	6.59
7.28	71.2	695.8	3302.81	37.93	6.57
7.23	70.2	694.9	3313.47	37.99	6.46
7.28	65.1	693.6	3328.90	38.21	6.02
7.31	59.0	692.8	3338.41	38.35	5.47
7.39	56.5	691.6	3352.69	38.59	5.27
7.25	55.7	690.6	3364.60	38.57	5.15
7.19	55.1	689.4	3378.92	38.65	5.09
7.14	54.6	688.1	3394.46	38.77	5.03
7.09	52.7	687.3	3404.03	38.82	4.84
6.97	52.5	686.1	3418.40	38.84	4.79
6.88	46.2	684.8	3433.99	38.91	4.20
6.98	42.2	683.6	3448.41	39.17	3.86
6.95	39.2	682.2	3465.26	39.32	3.59
6.98	36.4	681.2	3477.31	39.49	3.34
6.99	34.2	679.9	3493.00	39.67	3.15
6.94	33.5	678.8	3506.31	39.76	3.08
6.78	34.8	677.6	3520.84	39.74	3.17
6.66	38.8	676.4	3535.39	39.76	3.51
6.48	40.2	675.1	3551.17	39.73	3.60
6.41	40.7	674.1	3563.33	39.79	3.63
6.31	42.6	672.9	3577.94	39.84	3.78
6.23	41.3	671.9	3590.13	39.88	3.65
6.20	34.9	670.8	3603.56	39.99	3.08
6.26	31.6	669.7	3617.01	40.21	2.81
6.21	30.6	668.6	3630.47	40.30	2.71
6.29	30.0	667.4	3645.19	40.55	2.68
6.19	29.3	666.5	3656.24	40.56	2.60
6.01	29.1	665.3	3671.00	40.52	2.56

CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.93	29.0	663.4	3694.40	40.68	2.54
5.98	30.2	662.1	3710.45	40.92	2.66
6.05	30.5	661.1	3722.82	41.13	2.70
6.05	31.0	660.3	3732.73	41.24	2.75
6.02	31.1	658.9	3750.11	41.40	2.76
5.97	30.7	658.3	3757.56	41.42	2.72
5.92	30.3	657.4	3768.76	41.49	2.68
5.88	30.2	656.3	3782.46	41.60	2.67
5.83	29.9	655.3	3794.93	41.68	2.63
5.83	29.6	654.5	3804.93	41.79	2.61
5.94	29.2	653.2	3821.19	42.09	2.60
5.76	29.0	652.5	3829.96	41.98	2.55
5.81	28.9	651.7	3839.99	42.15	2.56
5.76	28.8	650.8	3851.30	42.22	2.54
5.69	28.6	649.9	3862.61	42.26	2.51
5.86	28.3	649.1	3872.68	42.57	2.52
6.11	28.0	648.1	3885.30	42.99	2.54
6.28	27.7	647.3	3895.41	43.29	2.55
6.44	27.7	646.5	3905.55	43.59	2.58
6.48	27.8	645.7	3915.70	43.74	2.60
6.50	27.6	644.8	3927.13	43.89	2.59
6.53	27.5	644.1	3936.04	44.03	2.59
6.61	27.4	643.1	3948.78	44.26	2.60
6.64	27.4	642.6	3955.16	44.36	2.60
6.73	27.4	641.8	3965.38	44.58	2.62
6.68	27.3	640.7	3979.46	44.68	2.61
6.68	27.4	640.0	3988.42	44.78	2.62
6.57	27.2	639.2	3998.68	44.77	2.58
6.58	27.0	638.7	4005.10	44.85	2.57
6.56	26.9	637.7	4017.95	44.97	2.56
6.53	26.9	637.0	4026.96	45.03	2.56
6.49	26.9	636.2	4037.26	45.10	2.55
6.43	26.9	635.2	4050.16	45.18	2.55
6.40	26.9	634.5	4059.19	45.24	2.54
6.39	26.9	633.8	4068.24	45.33	2.55
6.38	26.8	633.1	4077.30	45.42	2.54
6.47	26.7	632.3	4087.66	45.64	2.55
6.41	26.7	631.5	4098.04	45.69	2.54
6.31	26.7	630.7	4108.42	45.69	2.53
6.21	26.6	629.8	4120.12	45.70	2.50
6.19	26.6	629.0	4130.53	45.80	2.50
6.10	26.6	628.1	4142.25	45.83	2.49
6.05	26.5	627.4	4151.38	45.87	2.47
5.97	26.5	626.6	4161.82	45.89	2.46

### CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.89	26.5	625.6	4174.89	45.95	2.45
5.88	26.6	625.0	4182.74	46.03	2.46
5.83	26.6	624.1	4194.53	46.10	2.46
5.76	26.6	623.3	4205.02	46.14	2.45
5.75	26.6	622.7	4212.89	46.21	2.45
5.64	26.5	621.6	4227.34	46.25	2.43
5.56	26.6	620.9	4236.55	46.26	2.43
5.37	26.5	620.1	4247.08	46.16	2.39
5.36	26.5	619.4	4256.30	46.25	2.39
5.27	26.6	618.5	4268.17	46.28	2.39
5.24	26.6	617.7	4278.74	46.36	2.38
5.22	26.5	617.2	4285.34	46.42	2.37
5.13	26.6	616.1	4299.90	46.48	2.37
5.08	26.5	615.2	4311.82	46.55	2.36
5.12	26.5	614.3	4323.76	46.73	2.37
5.03	26.5	613.3	4337.05	46.78	2.36
4.91	26.5	612.7	4345.03	46.73	2.34
4.96	26.5	611.8	4357.01	46.92	2.35
4.90	26.4	611.0	4367.68	46.97	2.34
4.75	26.4	610.1	4379.69	46.93	2.32
4.57	26.4	609.3	4390.38	46.85	2.29
4.56	26.4	608.3	4403.75	46.99	2.29
4.50	26.4	607.7	4411.78	47.01	2.28
4.45	26.4	606.8	4423.84	47.08	2.28
4.33	26.4	605.9	4435.92	47.08	2.26
4.29	26.5	604.9	4449.35	47.19	2.27
4.29	26.6	604.2	4458.77	47.29	2.28
4.22	26.5	603.3	4470.89	47.35	2.26
4.17	26.6	602.3	4484.38	47.44	2.27
4.16	26.5	601.6	4493.83	47.54	2.26
4.08	26.5	600.7	4506.00	47.58	2.25
3.97	26.5	599.8	4518.18	47.59	2.24
3.86	26.5	599.0	4529.02	47.59	2.22
3.81	26.6	598.1	4541.23	47.67	2.23
3.78	26.6	597.2	4553.45	47.77	2.23
3.59	26.6	596.4	4564.33	47.67	2.20
3.48	26.6	595.4	4577.94	47.70	2.19
3.33	26.6	594.8	4586.11	47.62	2.17
3.26	26.6	593.8	4599.74	47.69	2.16
3.23	26.6	592.9	4612.03	47.80	2.16
3.23	26.6	592.1	4622.97	47.92	2.16
3.08	26.7	591.3	4633.92	47.87	2.15
2.95	26.6	590.4	4646.25	47.86	2.12
2.81	26.7	589.4	4659.96	47.85	2.11

### CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
2.75	26.6	588.7	4669.57	47.89	2.10
2.61	26.7	587.8	4681.94	47.87	2.09
2.51	26.7	586.8	4695.70	47.91	2.08
2.41	26.7	586.0	4706.72	47.92	2.07
2.25	26.7	585.2	4717.75	47.86	2.05
2.09	26.8	584.3	4730.17	47.81	2.03
2.05	26.8	583.4	4742.61	47.91	2.03
2.00	26.8	582.6	4753.67	47.97	2.03
1.91	26.8	581.8	4764.75	48.00	2.02
1.83	26.9	580.9	4777.23	48.04	2.01
1.85	26.8	580.2	4786.95	48.18	2.01
1.88	26.8	579.4	4798.07	48.34	2.02
1.94	26.7	578.5	4810.60	48.55	2.02
1.85	26.6	577.7	4821.75	48.58	2.01
1.77	26.6	576.7	4835.72	48.64	2.00
1.79	26.5	576.2	4842.70	48.74	1.99
1.74	26.5	575.1	4858.10	48.86	1.99
1.75	26.5	574.6	4865.11	48.95	1.99
1.75	26.5	573.7	4877.74	49.10	2.00
1.61	26.5	572.7	4891.79	49.10	1.98
1.58	26.6	572.0	4901.64	49.17	1.99
1.59	26.6	571.3	4911.50	49.30	1.99
1.62	26.6	570.4	4924.19	49.48	2.00
1.58	26.6	569.7	4934.08	49.54	1.99
1.47	26.6	569.1	4942.56	49.51	1.98
1.47	26.6	568.1	4956.72	49.67	1.98
1.37	26.7	567.4	4966.64	49.67	1.98
1.29	26.7	566.6	4977.99	49.71	1.97
1.18	26.7	565.9	4987.93	49.69	1.96
1.06	26.7	565.1	4999.30	49.68	1.94
1.03	26.7	564.1	5013.53	49.81	1.94
0.90	26.7	563.4	5023.51	49.77	1.93
0.81	26.7	562.6	5034.92	49.80	1.92
0.71	26.7	562.0	5043.48	49.78	1.91
0.60	26.7	561.0	5057.77	49.81	1.89
0.60	26.7	560.0	5072.09	49.98	1.90
0.49	26.7	559.3	5082.12	49.96	1.88
0.49	26.7	558.7	5090.73	50.06	1.89
0.30	26.6	557.8	5103.65	49.99	1.86
0.16	26.7	556.9	5116.59	49.97	1.85
0.11	26.7	555.9	5130.98	50.08	1.84
0.03	26.7	555.5	5136.74	50.05	1.84
0.01	26.7	554.5	5151.17	50.19	1.84
-0.11	26.7	553.7	5162.72	50.18	1.82

CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-0.19	26.7	552.8	5175.74	50.24	1.81
-0.35	26.7	552.0	5187.32	50.18	1.80
-0.47	26.7	551.0	5201.81	50.21	1.78
-0.60	26.7	550.3	5211.96	50.17	1.77
-0.63	26.7	549.6	5222.13	50.25	1.77
-0.71	26.7	548.5	5238.13	50.34	1.76
-0.98	26.7	548.0	5245.40	50.11	1.73
-0.99	26.7	546.7	5264.35	50.32	1.73
-1.07	26.7	545.7	5278.94	50.39	1.72
-1.14	26.7	545.0	5289.18	50.43	1.72
-1.23	26.7	544.1	5302.35	50.47	1.71
-1.33	26.7	543.2	5315.54	50.51	1.70
-1.41	26.7	542.5	5325.81	50.53	1.69
-1.52	26.7	541.5	5340.49	50.57	1.68
-1.61	26.7	540.8	5350.79	50.58	1.67
-1.80	26.7	539.8	5365.51	50.53	1.65
-1.85	26.7	538.9	5378.77	50.62	1.65
-1.92	26.8	538.0	5392.06	50.69	1.65
-2.07	26.7	537.0	5406.84	50.69	1.63
-2.18	26.8	536.0	5421.64	50.73	1.62
-2.27	26.8	535.5	5429.05	50.71	1.61
-2.36	26.8	534.2	5448.34	50.82	1.61
-2.47	26.9	533.4	5460.23	50.83	1.60
-2.56	26.8	532.4	5475.11	50.90	1.59
-2.64	26.8	531.7	5485.54	50.92	1.58
-2.75	26.8	530.7	5500.46	50.97	1.57
-2.90	26.9	529.9	5512.41	50.93	1.56
-2.95	26.9	528.8	5528.86	51.06	1.56
-3.07	27.0	527.6	5546.84	51.12	1.55
-3.19	26.9	527.0	5555.84	51.09	1.54
-3.31	26.9	526.2	5567.86	51.08	1.53
-3.33	26.9	525.2	5582.89	51.24	1.53
-3.47	26.9	524.2	5597.96	51.24	1.51
-3.47	26.9	523.2	5613.04	51.42	1.52
-3.58	26.9	522.7	5620.60	51.38	1.50
-3.58	26.9	521.5	5638.75	51.59	1.51
-3.66	26.9	520.7	5650.87	51.64	1.50
-3.66	27.0	519.9	5663.01	51.78	1.51
-3.85	27.0	519.1	5675.17	51.69	1.49
-3.92	27.1	518.4	5685.81	51.73	1.49
-4.04	27.1	517.2	5704.09	51.81	1.48
-4.13	27.2	516.4	5716.29	51.84	1.48
-4.23	27.2	515.5	5730.04	51.88	1.47
-4.38	27.2	514.7	5742.27	51.84	1.45



### CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-4.40	27.2	513.7	5757.59	52.00	1.46
-4.47	27.2	512.7	5772.93	52.10	1.45
-4.59	27.2	512.0	5783.68	52.08	1.44
-4.67	27.2	511.3	5794.44	52.11	1.43
-4.85	27.3	510.1	5812.92	52.11	1.42
-4.94	27.2	509.4	5823.71	52.13	1.41
-5.15	27.3	508.7	5834.51	52.00	1.39
-5.26	27.3	507.4	5854.60	52.11	1.39
-5.37	27.3	506.7	5865.43	52.10	1.38
-5.43	27.3	506.1	5874.73	52.14	1.37
-5.50	27.3	505.4	5885.58	52.18	1.37
-5.64	27.4	504.6	5898.00	52.16	1.36
-5.75	27.3	503.7	5911.99	52.19	1.34
-5.80	27.2	502.8	5925.99	52.30	1.34
-5.88	27.1	502.0	5938.46	52.35	1.33
-5.94	27.1	501.0	5954.07	52.46	1.32
-5.88	27.1	500.5	5961.89	52.63	1.33
-6.25	27.1	499.5	5977.54	52.36	1.29
-6.10	26.9	498.7	5990.08	52.69	1.30
-6.21	26.8	497.9	6002.63	52.71	1.29
-6.29	26.8	497.3	6012.06	52.72	1.28
-6.36	26.9	496.3	6027.80	52.83	1.28
-6.44	26.9	495.5	6040.40	52.88	1.28
-6.51	27.0	494.7	6053.03	52.94	1.28
-6.43	26.9	493.9	6065.67	53.19	1.28
-6.55	26.9	493.3	6075.16	53.16	1.27
-6.71	26.9	492.3	6091.01	53.15	1.26
-6.74	26.9	491.8	6098.94	53.21	1.26
-6.89	26.9	490.6	6118.00	53.26	1.25
-7.09	26.9	489.4	6137.09	53.24	1.23
-7.24	26.9	488.6	6149.84	53.21	1.22
-7.24	26.9	487.9	6161.01	53.34	1.22
-7.36	26.9	487.0	6175.39	53.37	1.21
-7.31	26.8	486.7	6180.19	53.49	1.21
-7.41	26.8	485.6	6197.80	53.57	1.20
-7.51	26.8	484.7	6212.24	53.62	1.20
-7.58	26.7	484.3	6218.66	53.62	1.19
-7.76	26.7	483.5	6231.52	53.55	1.17
-7.76	26.7	482.7	6244.39	53.70	1.17
-7.66	26.7	482.0	6255.68	53.96	1.19
-7.65	26.8	481.3	6266.98	54.11	1.19
-7.74	26.9	480.6	6278.30	54.14	1.19
-7.85	26.9	479.9	6289.63	54.14	1.18
-7.88	27.1	479.2	6300.97	54.24	1.19

CSI Profile: STA1RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.89	27.3	478.3	6315.58	54.40	1.20
-7.94	27.6	477.6	6326.96	54.48	1.21
-7.91	28.1	477.0	6336.73	54.63	1.24
-7.94	29.1	476.5	6344.87	54.69	1.28
-7.92	29.8	475.7	6357.93	54.87	1.31
-7.97	30.6	475.3	6364.47	54.89	1.35
-8.04	31.1	473.9	6387.38	55.08	1.36
-8.21	31.4	473.6	6392.30	54.93	1.36
-8.20	31.5	472.9	6403.78	55.08	1.37
-8.31	31.7	472.3	6413.63	55.06	1.37
-8.36	31.7	471.5	6426.78	55.16	1.36
-8.49	31.7	470.9	6436.66	55.12	1.35
-8.60	31.7	470.2	6448.19	55.12	1.34
-8.63	31.7	469.5	6459.73	55.23	1.34
-8.87	31.6	468.7	6472.94	55.09	1.31
-8.97	31.6	468.5	6476.25	55.00	1.30
-8.97	31.7	467.5	6492.78	55.20	1.31
-9.02	31.7	466.6	6507.70	55.32	1.31
-9.18	31.9	466.2	6514.33	55.20	1.30
-9.25	31.9	465.3	6529.27	55.30	1.30
-9.46	31.9	464.9	6535.92	55.12	1.28
-9.52	32.1	464.0	6550.89	55.23	1.28
-9.57	32.0	463.3	6562.54	55.30	1.27
-9.67	32.0	462.9	6569.21	55.26	1.26
-9.67	32.0	462.0	6584.23	55.44	1.27
-9.77	32.0	461.5	6592.59	55.42	1.26
-9.78	31.9	460.7	6605.98	55.57	1.25
-9.83	31.5	460.0	6617.71	55.65	1.24
-9.93	31.3	459.4	6627.77	55.65	1.22
-9.99	30.7	458.7	6639.53	55.72	1.19
-10.00	30.3	458.0	6651.30	55.85	1.18
-10.08	30.1	457.3	6663.09	55.89	1.16
-10.18	30.1	456.8	6671.52	55.87	1.16
-10.23	30.0	455.9	6686.71	55.99	1.15
-10.35	30.0	455.4	6695.16	55.95	1.14
-10.43	30.0	454.5	6710.38	56.03	1.14
-10.55	30.0	453.8	6722.24	56.03	1.13
-10.67	30.0	453.4	6729.03	55.96	1.12
-10.67	29.9	452.7	6740.90	56.11	1.12
-10.73	29.9	452.0	6752.80	56.18	1.11
-10.94	30.0	451.4	6763.01	56.04	1.10
-11.14	30.1	450.6	6776.63	55.95	1.09
-11.26	30.0	449.8	6790.26	55.97	1.07
-11.40	30.1	449.2	6800.50	55.92	1.07

**CSI Profile: STA1RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-11.49	30.2	448.3	6815.87	56.00	1.06
-11.55	30.2	447.8	6824.42	56.03	1.06
-11.71	30.2	447.2	6834.69	55.95	1.05



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA 2RS01

Radiosonde  Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_

Date 8/5/94 Ob Time 1553 CDT

Site Chauvelour Islander, Breton Sound, Louisiana

Observer Blanchard

Barometric Pressure: 1010.9\* mBars

Dry-Bulb Temperature: 29.5 degrees C

Wet-Bulb Temperature: 25.8 degrees C

Relative Humidity: 75 percent

Wind Speed: \_\_\_\_\_ knots mph m/s

Wind Direction: \_\_\_\_\_ degrees M T

Sonde Battery Voltage: 9.5 VDC

Actual Time of Launch: 1558 CDT 2058 GMT

Comments: (Cloud cover, type, flight description, etc.)

BKN Cu calvus, nimbus, ci outflow

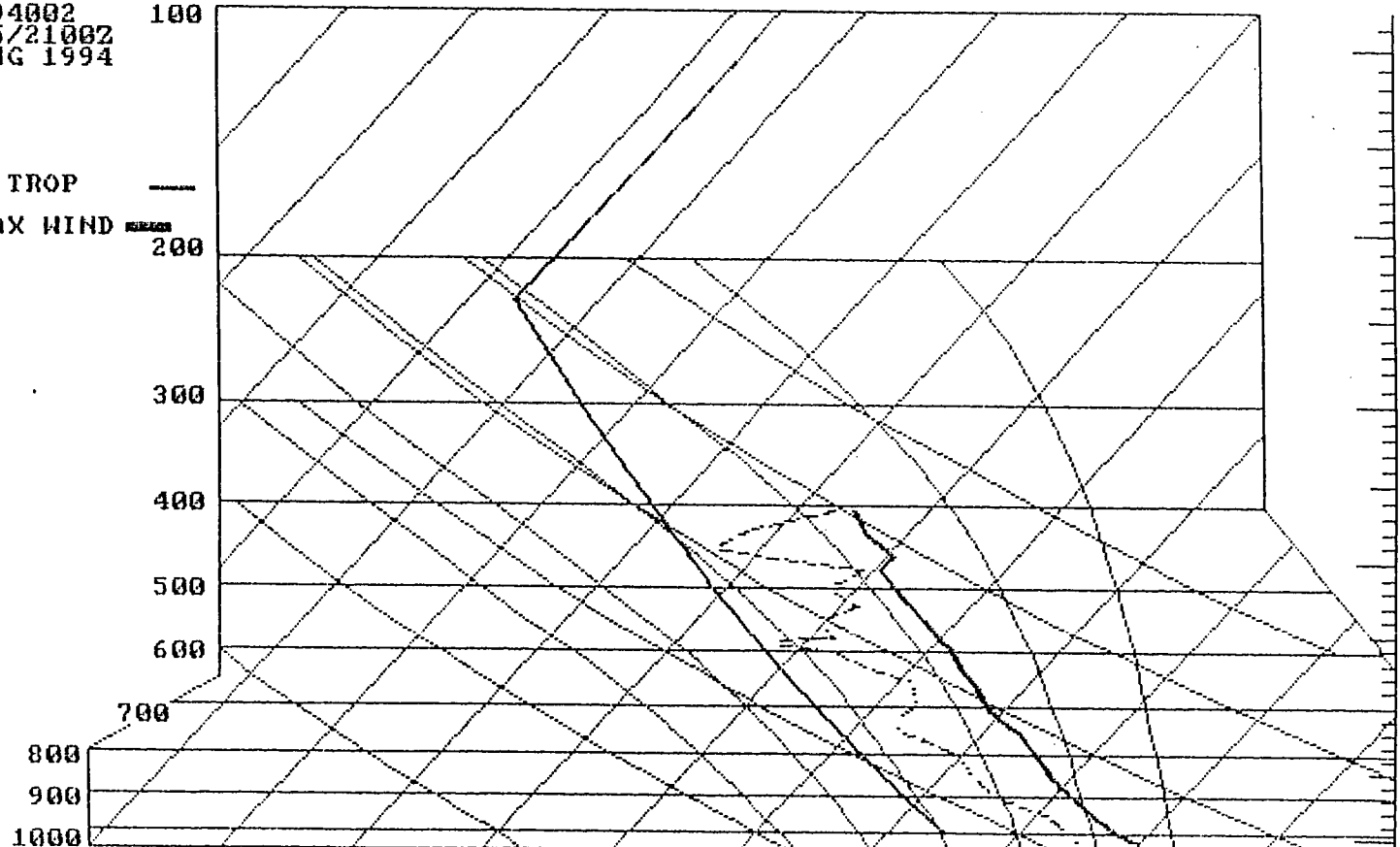
Hygistor: 10387 ohms, R. D. 78.15

\* Pressure correction +6.2 mb - 1017.1 mb.

Additional Comments on Back

94002  
05/21002  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU

P = Printing...  
USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-21

Station Number: 94002

DTG of RAOB: 05/2100Z AUG 1994

Indices		Sfc Data: 1017mb T= 29.4°C Td= 24.9°C			Heights		
SSI	= 0.5				100mb	= MISC	
K0	= -13.9				150mb	= MISC	
K Index	= 32.7	Adiabatic Processes			200mb	= MISC	
Lifted Index	= -4.7	Wet Bulb Zero	= 627mb	--	12706ft	250mb	= MISC
Sweat Index	= Missing	LCL	= 953mb	23.8°C	1689ft	300mb	= MISC
Total-Totals	= 45.0	LFC	= 918mb	22.5°C	2711ft	400mb	= MISC
U Totals	= 25.5	CCL	= 937mb	23.6°C	2148ft	500mb	= 5920M
X Totals	= 19.5	Tc	= --	30.7°C	--	700mb	= 3203M
Fog SI	= Missing	CCL E.L.	= None			850mb	= 1569M
Fog Threat	= -1.5	LFC E.L.	= None			1000mb	= 157M
Fog Point	= 22.1°C	850mb WBPT	= --	20.6°C	--		

Inversion Layers	Type	Break	Freezing Levels
475- 460mb	19514-20280ft Subs	57.5°C	580mb 14652ft

Thickness	
500-300mb	= MISC
700-500mb	= 2717M
850-500mb	= 4351M
850-700mb	= 1634M
1000-500mb	= 5763M
1000-700mb	= 3046M
1000-850mb	= 1412M

Max Wind  
None Reported

Icing Layers			Turbulence Layers		
Base	Top	Intensity	Base	Top	Shear
23100ft	- Missing	5.3	None		
19500ft	- 19500ft	0.1			

Trop Data  
None Reported

THREAT COLORS

Low
Moderate
High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-22

**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
29.34	77.1	1017.1	2.00	27.88	19.86
29.31	77.9	1015.6	15.22	27.97	20.07
29.04	76.9	1014.8	22.28	27.77	19.51
28.86	77.0	1013.8	31.10	27.68	19.34
28.78	77.0	1012.8	39.92	27.68	19.27
28.70	77.3	1012.2	45.22	27.65	19.27
28.61	77.4	1011.0	55.82	27.67	19.21
28.51	77.7	1010.0	64.66	27.65	19.20
28.43	78.0	1009.1	72.62	27.65	19.20
28.36	78.6	1007.9	83.25	27.68	19.29
28.32	78.5	1007.0	91.22	27.72	19.24
28.21	78.4	1005.9	100.97	27.70	19.11
28.11	79.2	1004.9	109.85	27.69	19.21
28.03	79.6	1003.6	121.39	27.72	19.25
27.98	80.0	1002.4	132.06	27.77	19.31
27.89	80.1	1001.4	140.96	27.77	19.25
27.76	80.2	1000.5	148.97	27.72	19.15
27.66	80.5	999.6	156.99	27.69	19.12
27.60	80.9	998.4	167.68	27.74	19.17
27.50	80.7	997.5	175.71	27.72	19.03
27.41	81.3	996.4	185.53	27.72	19.09
27.31	80.9	995.2	196.25	27.72	18.91
27.26	80.9	994.3	204.30	27.75	18.87
27.21	81.0	993.2	214.14	27.80	18.85
27.14	81.0	992.1	223.99	27.82	18.80
27.04	81.4	991.3	231.16	27.79	18.79
26.94	81.7	990.2	241.03	27.79	18.77
26.90	81.9	989.1	250.90	27.84	18.80
26.80	82.3	988.0	260.78	27.84	18.80
26.73	82.6	987.1	268.87	27.85	18.81
26.65	83.0	986.2	276.97	27.84	18.83
26.55	83.6	985.3	285.07	27.82	18.87
26.44	83.9	984.3	294.08	27.80	18.83
26.34	84.2	983.2	303.99	27.79	18.81
26.28	84.5	982.1	313.91	27.83	18.83
26.19	84.7	981.1	322.94	27.83	18.80
26.12	85.0	980.2	331.07	27.84	18.80
26.04	85.2	979.1	341.02	27.85	18.78
25.99	85.2	978.0	350.97	27.90	18.74
25.87	85.5	976.9	360.94	27.88	18.70
25.76	85.9	976.0	369.09	27.84	18.68
25.67	86.3	974.6	381.79	27.88	18.69
25.58	86.5	973.7	389.96	27.87	18.65
25.52	86.6	972.6	399.95	27.90	18.63

**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
25.42	86.5	971.4	410.86	27.91	18.52
25.35	86.7	970.5	419.05	27.92	18.50
25.28	86.9	969.4	429.07	27.94	18.48
25.19	87.1	968.1	440.92	27.97	18.45
25.10	87.1	967.1	450.05	27.97	18.37
25.04	87.3	966.0	460.09	28.00	18.37
24.95	87.4	964.9	470.14	28.01	18.31
24.86	87.3	963.8	480.20	28.02	18.21
24.76	88.0	962.6	491.19	28.03	18.27
24.66	87.6	961.7	499.43	28.00	18.09
24.56	88.4	960.3	512.27	28.03	18.18
24.50	88.0	959.2	522.36	28.07	18.05
24.42	88.2	958.1	532.47	28.09	18.02
24.37	87.8	957.2	540.74	28.12	17.90
24.33	87.1	956.1	550.86	28.17	17.73
24.28	86.4	955.3	558.23	28.20	17.54
24.28	85.2	954.1	569.28	28.30	17.32
24.29	84.0	953.2	577.58	28.40	17.09
24.30	81.2	952.1	587.74	28.51	16.54
24.34	80.2	951.4	594.21	28.61	16.38
24.32	80.0	950.5	602.53	28.67	16.33
24.27	79.8	949.5	611.78	28.71	16.26
24.26	79.4	948.4	621.97	28.80	16.19
24.20	79.2	947.5	630.32	28.82	16.10
24.12	79.2	946.6	638.67	28.82	16.04
24.06	79.3	945.9	645.17	28.83	16.01
23.99	79.1	944.9	654.46	28.85	15.92
23.92	79.1	944.0	662.82	28.86	15.86
23.87	78.9	943.1	671.19	28.89	15.79
23.82	78.8	942.4	677.71	28.90	15.73
23.77	78.8	941.6	685.16	28.92	15.70
23.72	78.7	940.7	693.55	28.96	15.64
23.69	78.7	939.8	701.95	29.01	15.63
23.64	78.7	939.1	708.48	29.02	15.60
23.58	78.6	938.3	715.95	29.03	15.53
23.54	78.5	937.5	723.43	29.07	15.49
23.48	78.1	936.8	729.98	29.07	15.36
23.48	77.2	936.0	737.46	29.14	15.19
23.49	76.6	935.1	745.89	29.24	15.09
23.45	76.3	934.1	755.27	29.29	15.01
23.39	76.2	933.3	762.77	29.30	14.95
23.35	76.1	932.5	770.28	29.34	14.91
23.28	76.1	931.7	777.80	29.34	14.86
23.23	76.0	930.8	786.26	29.37	14.81



**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
23.18	75.9	929.9	794.72	29.40	14.75
23.14	75.6	929.0	803.20	29.45	14.67
23.06	75.5	928.3	809.79	29.43	14.59
22.98	75.6	927.3	819.22	29.44	14.56
22.90	76.0	926.4	827.70	29.44	14.58
22.84	75.8	925.5	836.20	29.47	14.50
22.79	75.7	924.6	844.70	29.50	14.45
22.73	75.4	923.9	851.32	29.50	14.35
22.71	75.4	923.0	859.83	29.57	14.34
22.58	75.5	922.2	867.41	29.51	14.26
22.51	75.5	921.3	875.93	29.52	14.21
22.46	75.5	920.3	885.41	29.57	14.18
22.41	75.6	919.7	891.10	29.57	14.17
22.32	75.5	918.6	901.54	29.58	14.09
22.26	75.5	917.7	910.09	29.61	14.05
22.19	75.5	916.7	919.59	29.63	14.00
22.14	75.4	915.7	929.11	29.67	13.96
22.10	75.3	915.2	933.87	29.68	13.91
22.03	75.3	914.0	945.30	29.72	13.87
22.02	74.5	913.0	954.84	29.80	13.73
21.97	74.7	912.5	959.61	29.80	13.73
21.93	73.3	911.4	970.11	29.86	13.45
21.93	72.7	910.5	978.72	29.95	13.35
21.85	71.8	909.6	987.33	29.95	13.13
21.80	71.2	908.6	996.90	30.00	12.99
21.75	70.1	907.7	1005.52	30.03	12.76
21.77	69.2	906.6	1016.07	30.16	12.62
21.73	68.9	905.8	1023.75	30.19	12.55
21.68	68.8	904.4	1037.20	30.28	12.51
21.65	68.8	903.3	1047.78	30.35	12.50
21.53	68.8	902.4	1056.44	30.31	12.42
21.48	68.8	901.3	1067.04	30.37	12.40
21.40	69.0	899.9	1080.55	30.42	12.39
21.35	69.3	899.2	1087.31	30.44	12.42
21.26	68.9	898.3	1096.00	30.43	12.29
21.19	68.7	896.9	1109.54	30.49	12.22
21.13	68.5	896.1	1117.28	30.51	12.15
21.07	68.3	895.0	1127.94	30.55	12.08
21.02	68.3	893.8	1139.58	30.62	12.06
20.92	68.4	892.7	1150.26	30.62	12.02
20.82	68.4	891.7	1159.97	30.62	11.96
20.75	68.6	890.4	1172.62	30.67	11.96
20.65	68.6	889.6	1180.40	30.65	11.89
20.58	68.5	888.2	1194.04	30.71	11.84

CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
20.53	68.2	887.2	1203.80	30.76	11.77
20.47	67.9	886.1	1214.54	30.80	11.68
20.39	67.4	885.2	1223.33	30.81	11.55
20.33	67.4	884.0	1235.07	30.86	11.52
20.25	67.5	882.8	1246.82	30.90	11.50
20.19	67.1	881.6	1258.58	30.96	11.40
20.14	67.2	880.8	1266.43	30.98	11.39
20.11	66.3	879.7	1277.23	31.06	11.23
20.04	66.0	878.5	1289.02	31.11	11.15
19.95	66.9	877.5	1298.86	31.11	11.25
19.83	67.4	876.5	1308.71	31.09	11.26
19.75	67.2	875.4	1319.55	31.11	11.19
19.72	65.5	874.4	1329.41	31.18	10.89
19.69	65.0	873.2	1341.26	31.27	10.80
19.64	65.2	872.3	1350.16	31.31	10.81
19.58	68.1	871.2	1361.05	31.35	11.27
19.50	68.5	870.3	1369.96	31.36	11.29
19.43	68.6	869.2	1380.87	31.40	11.28
19.37	68.2	868.3	1389.80	31.43	11.18
19.33	66.5	867.2	1400.73	31.50	10.88
19.31	65.3	865.9	1413.65	31.60	10.68
19.27	65.2	865.0	1422.61	31.65	10.65
19.26	65.5	864.0	1432.58	31.74	10.71
19.19	65.9	863.0	1442.55	31.77	10.74
19.15	65.5	862.0	1452.54	31.83	10.66
19.08	65.5	861.4	1458.53	31.82	10.62
19.03	65.5	860.1	1471.53	31.90	10.60
18.96	65.3	859.4	1478.54	31.90	10.53
18.91	65.1	858.3	1489.56	31.96	10.48
18.82	65.3	857.2	1500.59	31.97	10.46
18.75	65.3	856.2	1510.63	32.00	10.43
18.69	65.7	855.2	1520.68	32.04	10.47
18.65	65.7	854.5	1527.71	32.07	10.45
18.54	65.8	853.4	1538.78	32.07	10.41
18.44	67.0	852.4	1548.86	32.07	10.55
18.36	67.4	851.3	1559.95	32.10	10.57
18.28	67.4	850.4	1569.03	32.10	10.53
18.20	68.1	849.4	1579.13	32.12	10.60
18.11	69.9	848.5	1588.23	32.12	10.83
18.01	69.8	847.5	1598.34	32.12	10.76
17.95	69.3	846.5	1608.47	32.16	10.65
17.87	68.6	845.5	1618.61	32.18	10.50
17.82	68.3	844.6	1627.74	32.22	10.43
17.73	68.1	843.6	1637.89	32.23	10.35

CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
17.69	68.2	842.8	1646.02	32.27	10.35
17.61	67.9	841.7	1657.20	32.30	10.27
17.58	67.1	840.7	1667.38	32.37	10.14
17.47	66.9	839.7	1677.57	32.36	10.05
17.41	67.1	838.7	1687.77	32.40	10.05
17.28	68.0	837.8	1696.95	32.36	10.12
17.17	68.8	836.3	1712.28	32.40	10.18
17.08	70.4	835.9	1716.37	32.35	10.37
16.99	70.0	834.3	1732.74	32.42	10.27
16.96	70.5	833.2	1744.02	32.50	10.34
16.85	73.2	832.2	1754.28	32.49	10.68
16.77	73.4	831.0	1766.61	32.53	10.67
16.71	73.6	830.4	1772.77	32.53	10.66
16.67	72.8	829.4	1783.06	32.60	10.53
16.67	71.7	828.5	1792.33	32.69	10.38
16.63	71.8	827.7	1800.58	32.73	10.38
16.56	72.2	826.7	1810.89	32.77	10.40
16.49	72.3	826.1	1817.09	32.76	10.38
16.44	73.1	824.9	1829.49	32.83	10.48
16.43	71.7	824.2	1836.73	32.89	10.28
16.40	72.4	823.3	1846.05	32.96	10.37
16.35	72.6	822.8	1851.23	32.96	10.37
16.27	72.6	821.6	1863.67	33.00	10.33
16.20	72.5	820.9	1870.94	33.00	10.28
16.14	72.4	820.1	1879.25	33.02	10.24
16.14	71.8	819.2	1888.60	33.12	10.16
16.08	71.8	818.3	1897.97	33.15	10.13
16.09	70.7	817.5	1906.30	33.25	9.99
16.10	68.1	816.8	1913.60	33.33	9.63
16.11	67.4	815.8	1924.03	33.45	9.55
16.11	66.5	815.2	1930.29	33.52	9.43
16.05	69.6	814.3	1939.70	33.55	9.85
15.98	69.1	813.3	1950.16	33.58	9.74
16.00	66.5	813.0	1953.30	33.64	9.39
16.02	64.8	812.1	1962.73	33.76	9.17
16.00	65.5	811.1	1973.22	33.84	9.27
15.94	65.4	810.4	1980.57	33.85	9.22
15.86	65.8	809.6	1988.97	33.86	9.24
15.77	67.3	808.9	1996.33	33.84	9.41
15.72	68.0	807.9	2006.85	33.89	9.49
15.67	68.2	806.9	2017.38	33.95	9.50
15.65	67.7	806.2	2024.76	34.00	9.42
15.61	67.9	805.7	2030.03	34.01	9.43
15.59	67.8	804.7	2040.59	34.10	9.42

### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
15.56	67.3	804.0	2047.99	34.15	9.34
15.57	66.6	803.3	2055.39	34.23	9.25
15.54	66.5	802.4	2064.91	34.30	9.23
15.51	66.2	801.6	2073.39	34.36	9.18
15.50	65.7	801.0	2079.75	34.41	9.11
15.46	66.1	800.1	2089.30	34.47	9.16
15.40	66.9	799.3	2097.80	34.49	9.24
15.41	64.5	798.6	2105.24	34.58	8.92
15.38	63.8	797.7	2114.82	34.65	8.81
15.33	64.8	797.2	2120.14	34.65	8.93
15.26	64.1	796.1	2131.86	34.70	8.80
15.19	64.6	795.3	2140.39	34.71	8.84
15.14	63.8	794.4	2150.00	34.76	8.71
15.09	63.3	793.6	2158.55	34.79	8.62
15.05	63.4	792.9	2166.03	34.83	8.62
14.97	63.1	792.0	2175.66	34.84	8.55
14.93	63.1	791.0	2186.37	34.91	8.54
14.83	62.5	790.2	2194.94	34.89	8.41
14.78	62.5	789.0	2207.82	34.97	8.39
14.78	62.6	788.4	2214.26	35.04	8.41
14.63	62.9	787.4	2225.01	34.99	8.38
14.60	62.7	786.7	2232.54	35.04	8.35
14.56	62.6	785.6	2244.39	35.12	8.32
14.48	62.7	784.5	2256.24	35.16	8.30
14.44	62.8	783.9	2262.72	35.18	8.30
14.37	62.4	782.8	2274.60	35.23	8.22
14.31	62.1	781.9	2284.33	35.27	8.16
14.29	62.5	780.9	2295.15	35.36	8.21
14.18	62.8	780.2	2302.73	35.32	8.20
14.12	62.4	779.0	2315.74	35.39	8.13
14.10	61.4	778.0	2326.59	35.48	8.00
14.08	60.7	776.9	2338.54	35.58	7.91
14.01	60.6	776.0	2348.34	35.61	7.87
13.94	60.9	774.8	2361.40	35.67	7.88
13.89	60.8	773.9	2371.22	35.72	7.85
13.87	60.5	772.8	2383.22	35.83	7.81
13.79	60.4	771.8	2394.15	35.85	7.77
13.77	60.3	770.6	2407.28	35.97	7.76
13.71	60.3	770.2	2411.66	35.95	7.73
13.65	60.0	768.5	2430.30	36.08	7.68
13.61	59.6	767.4	2442.38	36.17	7.62
13.54	59.6	766.4	2453.38	36.21	7.59
13.48	59.9	765.3	2465.49	36.27	7.61
13.42	59.0	764.4	2475.40	36.31	7.48

### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
13.32	58.8	762.3	2498.58	36.44	7.42
13.26	59.4	762.2	2499.68	36.39	7.47
13.19	59.8	761.1	2511.85	36.44	7.50
13.10	59.9	759.8	2526.24	36.50	7.48
13.00	60.0	758.7	2538.43	36.52	7.45
12.89	60.1	757.7	2549.52	36.51	7.42
12.82	58.1	756.5	2562.85	36.58	7.15
12.83	56.5	755.4	2575.08	36.72	6.97
12.74	56.3	754.2	2588.45	36.76	6.91
12.66	56.3	753.2	2599.60	36.79	6.88
12.55	56.4	752.0	2612.99	36.81	6.86
12.49	56.3	750.9	2625.28	36.88	6.83
12.34	56.1	749.9	2636.46	36.83	6.74
12.26	55.7	748.4	2653.26	36.93	6.67
12.17	55.7	747.6	2662.23	36.92	6.64
12.09	55.3	746.4	2675.70	36.98	6.57
12.04	55.1	745.4	2686.94	37.04	6.53
11.91	55.0	744.3	2699.31	37.03	6.47
11.85	55.1	743.5	2708.32	37.06	6.47
11.80	55.1	742.0	2725.23	37.19	6.46
11.63	54.8	741.2	2734.26	37.10	6.36
11.54	54.5	740.1	2746.69	37.13	6.29
11.47	54.6	739.1	2758.00	37.17	6.28
11.40	55.6	737.8	2772.72	37.25	6.38
11.33	56.1	736.4	2788.60	37.35	6.42
11.25	56.4	735.7	2796.55	37.34	6.43
11.14	56.8	734.5	2810.19	37.37	6.44
11.06	57.4	733.6	2820.43	37.39	6.48
10.93	57.6	732.4	2834.10	37.39	6.46
10.87	58.1	731.3	2846.65	37.46	6.50
10.79	58.1	730.2	2859.21	37.51	6.47
10.67	58.0	729.5	2867.21	37.46	6.41
10.59	58.0	728.6	2877.50	37.48	6.39
10.53	58.4	727.5	2890.10	37.55	6.42
10.45	58.5	725.9	2908.45	37.66	6.41
10.36	58.1	725.3	2915.34	37.64	6.33
10.28	57.6	724.1	2929.13	37.69	6.25
10.24	57.2	723.5	2936.04	37.72	6.20
10.21	56.9	722.2	2951.01	37.85	6.16
10.14	57.3	721.1	2963.70	37.91	6.19
10.04	57.4	719.9	2977.56	37.95	6.17
9.96	57.6	718.2	2997.23	38.07	6.17
10.21	60.5	717.5	3005.34	38.43	6.60
9.71	62.3	716.1	3021.59	38.06	6.58

**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
9.62	62.2	715.4	3029.72	38.04	6.54
9.57	62.3	714.6	3039.02	38.09	6.54
9.45	62.6	713.5	3051.82	38.09	6.52
9.35	63.0	712.9	3058.80	38.06	6.53
9.25	63.3	711.6	3073.95	38.11	6.53
9.15	63.6	710.7	3084.45	38.11	6.52
9.08	64.2	708.9	3105.49	38.26	6.57
8.99	64.1	708.8	3106.66	38.18	6.52
8.79	64.6	707.4	3123.05	38.13	6.49
8.71	64.9	706.2	3137.11	38.19	6.50
8.59	65.1	705.3	3147.67	38.17	6.48
8.56	65.4	704.4	3158.24	38.26	6.50
8.47	66.2	703.5	3168.83	38.27	6.55
8.48	66.8	703.0	3174.71	38.34	6.62
8.36	67.4	702.6	3179.42	38.26	6.63
8.25	69.5	700.6	3203.00	38.39	6.81
8.08	77.3	698.7	3225.46	38.45	7.51
7.99	75.7	698.2	3231.38	38.41	7.31
7.92	74.5	697.0	3245.59	38.49	7.17
7.93	72.7	696.0	3257.46	38.63	7.01
7.89	71.6	695.8	3259.83	38.61	6.89
7.83	71.6	694.5	3275.28	38.71	6.87
7.79	71.8	693.8	3283.61	38.75	6.88
7.74	75.4	693.4	3288.37	38.75	7.21
7.61	76.6	692.3	3301.48	38.75	7.27
7.53	77.5	692.2	3302.67	38.67	7.32
7.49	79.6	691.1	3315.79	38.77	7.51
7.48	81.1	690.6	3321.77	38.82	7.65
7.49	82.2	689.4	3336.12	38.99	7.78
7.51	78.7	689.2	3338.52	39.04	7.46
7.52	77.8	688.2	3350.50	39.18	7.39
7.50	77.2	687.4	3360.10	39.26	7.33
7.47	76.0	686.8	3367.30	39.30	7.20
7.48	74.5	686.0	3376.92	39.42	7.07
7.37	74.0	685.5	3382.93	39.36	6.98
7.36	72.2	684.6	3393.76	39.47	6.81
7.29	71.7	684.1	3399.79	39.45	6.73
7.23	70.6	683.1	3411.84	39.52	6.61
7.25	70.1	682.0	3425.12	39.69	6.58
7.15	70.1	681.8	3427.54	39.60	6.54
7.08	70.2	681.0	3437.21	39.63	6.53
7.02	70.3	680.4	3444.47	39.64	6.51
6.93	70.4	678.8	3463.85	39.75	6.50
6.82	69.6	677.8	3475.98	39.76	6.38

**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.82	67.7	676.9	3486.91	39.88	6.22
6.80	67.8	676.1	3496.64	39.96	6.22
6.78	67.9	675.3	3506.38	40.04	6.23
6.81	68.3	674.7	3513.69	40.16	6.29
6.73	68.9	673.7	3525.89	40.20	6.32
6.78	58.0	672.9	3535.66	40.36	5.34
6.78	61.9	672.4	3541.77	40.43	5.70
6.70	66.4	671.7	3550.33	40.43	6.09
6.61	68.9	670.8	3561.35	40.45	6.29
6.49	71.4	670.3	3567.48	40.39	6.47
6.42	77.3	669.0	3583.44	40.48	7.00
6.37	76.1	668.3	3592.04	40.52	6.87
6.30	76.2	666.8	3610.50	40.64	6.86
6.32	67.0	666.6	3612.96	40.69	6.03
6.32	70.1	665.8	3622.82	40.80	6.32
6.20	79.4	664.9	3633.93	40.79	7.12
6.18	80.6	664.5	3638.87	40.82	7.23
6.06	80.7	663.2	3654.95	40.86	7.19
5.98	80.0	662.3	3666.10	40.89	7.09
5.93	78.9	661.4	3677.25	40.96	6.98
5.87	77.4	660.6	3687.18	41.00	6.83
5.82	74.6	660.1	3693.39	41.01	6.56
5.76	73.8	658.8	3709.55	41.12	6.47
5.66	73.0	658.1	3718.26	41.10	6.37
5.58	72.3	657.3	3728.22	41.12	6.28
5.50	72.1	656.4	3739.44	41.15	6.23
5.42	71.9	655.5	3750.68	41.19	6.19
5.40	74.4	654.5	3763.17	41.30	6.41
5.35	74.9	653.4	3776.94	41.40	6.44
5.26	75.1	652.7	3785.71	41.39	6.42
5.17	74.9	652.0	3794.49	41.39	6.37
5.18	72.5	650.5	3813.32	41.60	6.18
5.14	72.3	649.5	3825.90	41.70	6.16
5.02	70.4	648.3	3841.02	41.73	5.96
4.95	70.1	647.8	3847.32	41.72	5.91
4.91	66.8	646.2	3867.52	41.90	5.62
4.83	64.8	645.3	3878.91	41.93	5.43
4.74	64.1	644.2	3892.83	41.98	5.35
4.65	63.0	643.3	3904.24	42.01	5.23
4.54	62.9	642.1	3919.47	42.05	5.19
4.48	63.0	641.3	3929.63	42.09	5.18
4.44	63.0	640.4	3941.08	42.18	5.17
4.37	69.8	639.5	3952.54	42.22	5.72
4.26	69.9	638.9	3960.19	42.18	5.69

CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
4.19	69.8	637.6	3976.79	42.29	5.66
4.19	66.2	636.5	3990.85	42.44	5.38
4.09	65.7	635.6	4002.37	42.46	5.31
4.04	64.2	634.8	4012.63	42.51	5.17
3.92	62.8	633.4	4030.59	42.58	5.03
3.89	62.2	632.7	4039.59	42.64	4.97
3.87	61.9	631.3	4057.60	42.82	4.95
3.79	61.6	630.6	4066.63	42.83	4.91
3.72	61.4	629.7	4078.24	42.88	4.87
3.66	61.2	628.8	4089.86	42.94	4.84
3.58	61.4	627.8	4102.79	42.99	4.84
3.59	61.5	626.8	4115.75	43.15	4.86
3.56	61.6	626.1	4124.82	43.21	4.86
3.48	61.7	625.5	4132.61	43.21	4.85
3.39	61.6	624.3	4148.20	43.28	4.82
3.37	61.4	623.1	4163.82	43.43	4.80
3.29	60.5	622.2	4175.56	43.47	4.71
3.24	60.6	621.2	4188.61	43.56	4.71
3.17	60.9	620.6	4196.45	43.56	4.72
3.12	61.0	619.4	4212.14	43.68	4.72
3.01	61.2	618.1	4229.18	43.75	4.70
2.92	61.6	617.6	4235.74	43.72	4.71
2.88	61.5	616.6	4248.87	43.82	4.70
2.74	61.5	615.9	4258.07	43.76	4.65
2.62	61.3	614.9	4271.23	43.77	4.61
2.63	58.2	613.8	4285.72	43.94	4.38
2.54	56.4	612.9	4297.60	43.97	4.23
2.46	56.6	612.0	4309.49	44.01	4.22
2.37	56.7	610.4	4330.66	44.15	4.21
2.26	56.9	609.9	4337.28	44.10	4.20
2.22	57.1	608.9	4350.54	44.20	4.21
2.18	57.1	608.3	4358.51	44.24	4.20
2.10	57.5	607.3	4371.80	44.30	4.21
2.04	55.8	606.5	4382.45	44.35	4.08
2.00	53.5	605.7	4393.10	44.42	3.90
1.96	52.7	605.0	4402.44	44.48	3.84
1.87	52.3	604.0	4415.79	44.53	3.79
1.86	51.9	603.1	4427.82	44.65	3.76
1.76	51.1	601.7	4446.57	44.75	3.69
1.68	50.3	601.4	4450.59	44.70	3.61
1.62	50.0	600.6	4461.32	44.75	3.58
1.62	50.6	599.9	4470.72	44.86	3.62
1.47	51.9	599.6	4474.75	44.73	3.68
1.39	52.4	598.6	4488.20	44.79	3.70



### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
1.36	53.4	597.4	4504.36	44.94	3.77
1.20	54.1	597.3	4505.71	44.77	3.78
1.24	53.4	596.1	4521.90	45.00	3.75
1.23	53.1	595.6	4528.65	45.06	3.72
1.07	53.7	593.2	4561.14	45.24	3.74
1.08	50.7	592.5	4570.64	45.36	3.54
0.95	52.8	591.9	4578.79	45.30	3.65
0.86	52.6	591.2	4588.31	45.31	3.62
0.79	47.7	590.6	4596.47	45.32	3.27
0.83	46.3	589.8	4607.36	45.49	3.18
0.73	45.1	589.5	4611.45	45.42	3.08
0.64	43.5	588.3	4627.81	45.50	2.96
0.60	39.8	587.4	4640.10	45.59	2.70
0.71	36.7	586.2	4656.52	45.91	2.51
0.69	36.3	585.2	4670.22	46.04	2.49
0.56	37.1	584.2	4683.95	46.04	2.52
0.49	37.8	583.4	4694.94	46.09	2.56
0.42	37.9	582.8	4703.20	46.10	2.56
0.34	39.3	582.1	4712.84	46.12	2.64
0.24	41.0	581.4	4722.48	46.11	2.74
0.16	41.9	580.4	4736.28	46.17	2.79
0.15	43.3	580.0	4741.81	46.22	2.88
-0.03	46.4	579.0	4755.63	46.17	3.05
-0.06	52.8	578.1	4768.09	46.28	3.47
-0.15	54.0	577.6	4775.02	46.25	3.53
-0.23	55.3	576.8	4786.12	46.28	3.60
-0.31	58.0	576.2	4794.45	46.29	3.76
-0.29	56.6	575.4	4805.57	46.44	3.68
-0.31	55.2	574.6	4816.71	46.54	3.59
-0.29	53.3	573.6	4830.65	46.72	3.48
-0.34	52.9	572.8	4841.82	46.79	3.44
-0.42	53.8	571.7	4857.20	46.87	3.49
-0.51	53.8	571.3	4862.80	46.83	3.47
-0.60	53.7	570.2	4878.21	46.90	3.44
-0.65	53.1	569.1	4893.65	47.02	3.40
-0.71	54.5	568.6	4900.67	47.03	3.48
-0.79	55.5	568.2	4906.30	47.00	3.52
-0.90	57.4	567.1	4921.78	47.05	3.62
-0.92	57.7	566.1	4935.87	47.19	3.64
-1.00	58.4	565.5	4944.34	47.19	3.67
-1.08	59.1	565.0	4951.40	47.18	3.69
-1.17	59.2	564.2	4962.71	47.20	3.68
-1.22	60.6	562.7	4983.95	47.39	3.76
-1.28	60.5	562.3	4989.62	47.38	3.74

### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-1.38	60.2	561.7	4998.14	47.36	3.70
-1.37	50.1	560.7	5012.34	47.54	3.09
-1.42	49.5	560.0	5022.30	47.59	3.04
-1.47	49.9	558.8	5039.39	47.73	3.06
-1.58	54.5	557.9	5052.23	47.75	3.32
-1.74	51.6	555.8	5082.26	47.90	3.12
-1.92	54.9	555.3	5089.42	47.77	3.28
-2.03	54.4	554.0	5108.06	47.86	3.23
-2.19	54.2	553.0	5122.42	47.84	3.19
-2.37	54.8	551.9	5138.24	47.81	3.19
-2.40	55.1	550.9	5152.64	47.94	3.20
-2.56	54.8	549.4	5174.29	48.00	3.15
-2.85	50.0	544.7	5242.43	48.44	2.84
-2.96	49.6	543.5	5259.90	48.51	2.80
-3.27	50.7	542.3	5277.41	48.35	2.80
-3.54	52.5	540.4	5305.17	48.35	2.85
-3.52	57.4	539.5	5318.34	48.53	3.13
-3.42	61.1	538.5	5333.02	48.82	3.37
-3.48	68.8	537.0	5355.09	49.00	3.79
-3.81	70.6	534.1	5397.91	49.11	3.81
-3.99	70.8	532.5	5421.61	49.17	3.78
-4.01	71.2	531.6	5434.96	49.30	3.80
-4.16	72.7	529.7	5463.23	49.45	3.86
-4.27	72.7	529.3	5469.19	49.39	3.83
-4.30	72.4	529.1	5472.17	49.39	3.80
-4.37	72.7	528.7	5478.14	49.37	3.80
-4.52	73.1	526.5	5511.01	49.58	3.80
-4.72	73.5	525.9	5519.99	49.44	3.76
-4.83	73.7	524.1	5546.99	49.63	3.75
-4.96	74.1	523.9	5549.99	49.50	3.74
-5.05	73.6	522.7	5568.03	49.61	3.70
-5.01	71.3	522.6	5569.54	49.67	3.59
-5.01	71.4	520.2	5605.75	50.10	3.61
-5.23	71.5	519.7	5613.31	49.92	3.56
-5.37	71.4	518.8	5626.93	49.91	3.53
-5.51	71.3	517.2	5651.18	50.03	3.49
-5.57	71.5	516.4	5663.33	50.10	3.49
-5.68	71.6	515.6	5675.50	50.11	3.47
-5.83	71.4	514.9	5686.16	50.06	3.43
-5.90	70.5	514.4	5693.77	50.06	3.37
-6.01	70.7	513.1	5713.61	50.16	3.36
-6.10	71.8	511.9	5731.95	50.27	3.40
-6.20	73.1	511.5	5738.07	50.22	3.44
-6.25	73.9	510.8	5748.79	50.29	3.46

### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-6.35	73.1	509.9	5762.60	50.33	3.41
-6.40	68.1	509.3	5771.81	50.38	3.16
-6.48	66.7	508.4	5785.65	50.44	3.08
-6.53	67.1	507.7	5796.42	50.51	3.10
-6.70	68.5	506.4	5816.46	50.54	3.13
-6.77	68.5	506.1	5821.09	50.51	3.11
-6.81	69.0	505.8	5825.72	50.52	3.13
-6.93	69.0	505.7	5827.27	50.39	3.10
-6.97	68.9	504.1	5852.01	50.63	3.09
-7.04	66.7	503.6	5859.75	50.64	2.98
-7.10	65.5	503.2	5865.95	50.64	2.92
-7.20	65.0	502.2	5881.47	50.70	2.88
-7.23	65.3	501.5	5892.35	50.80	2.89
-7.35	65.6	500.9	5901.68	50.76	2.88
-7.41	66.5	499.9	5917.25	50.87	2.91
-7.43	65.9	499.0	5931.29	51.02	2.88
-7.46	65.6	498.1	5945.36	51.15	2.87
-7.37	65.4	497.1	5961.02	51.44	2.89
-7.49	66.1	495.9	5979.85	51.52	2.90
-7.50	66.4	495.5	5986.14	51.58	2.91
-7.58	66.2	495.0	5994.00	51.58	2.89
-7.70	65.8	493.9	6011.32	51.64	2.85
-7.79	66.1	493.5	6017.63	51.60	2.84
-7.86	65.9	492.4	6034.99	51.73	2.83
-7.97	66.1	491.7	6046.05	51.72	2.82
-7.97	66.6	491.2	6053.96	51.82	2.84
-8.07	67.2	490.4	6066.63	51.85	2.85
-8.12	68.2	488.8	6092.03	52.09	2.89
-8.31	69.5	487.7	6109.54	52.07	2.91
-8.59	71.3	487.0	6120.68	51.86	2.92
-8.69	76.8	486.0	6136.63	51.92	3.13
-8.80	81.5	484.9	6154.20	52.00	3.30
-8.83	85.0	484.7	6157.40	52.00	3.44
-8.98	86.0	483.8	6171.81	51.99	3.44
-9.00	88.9	482.9	6186.23	52.14	3.56
-9.16	89.2	482.2	6197.47	52.08	3.53
-9.15	91.0	481.1	6215.16	52.30	3.62
-9.23	91.9	479.6	6239.34	52.49	3.64
-9.35	92.8	478.9	6250.65	52.48	3.65
-9.40	92.9	478.2	6261.96	52.55	3.64
-9.40	92.3	477.3	6276.54	52.73	3.63
-9.69	91.2	474.9	6315.52	52.84	3.52
-9.60	91.8	472.7	6351.42	53.39	3.58
-9.66	91.7	469.7	6400.63	53.91	3.59

### CSI Profile: STA2RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.77	90.7	469.2	6408.86	53.87	3.52
-9.82	90.5	468.8	6415.45	53.89	3.50
-9.69	87.1	467.8	6431.95	54.25	3.41
-9.48	79.7	466.9	6446.84	54.69	3.18
-9.48	77.3	466.8	6448.50	54.71	3.08
-9.54	76.4	466.6	6451.81	54.68	3.03
-9.68	76.4	464.3	6490.00	54.97	3.01
-9.70	75.5	463.8	6498.32	55.04	2.98
-9.76	75.1	463.6	6501.65	55.01	2.95
-9.72	74.7	463.3	6506.65	55.12	2.94
-9.87	74.5	462.8	6514.99	55.03	2.90
-9.87	71.4	462.0	6528.35	55.19	2.79
-9.70	60.9	461.7	6533.37	55.47	2.41
-9.60	55.9	461.1	6543.41	55.71	2.23
-9.56	49.4	460.6	6551.79	55.87	1.98
-9.55	43.2	460.0	6561.86	56.00	1.73
-9.70	42.8	458.8	6582.03	56.06	1.70
-9.77	42.5	456.5	6620.82	56.45	1.69
-10.16	42.3	455.6	6636.04	56.14	1.63
-10.32	41.8	454.0	6663.14	56.28	1.60
-10.46	38.1	453.0	6680.12	56.31	1.44
-10.57	35.6	452.5	6688.62	56.27	1.34
-10.63	33.4	451.6	6703.93	56.39	1.25
-10.65	32.2	450.1	6729.51	56.67	1.21
-10.77	33.5	448.9	6750.04	56.78	1.25
-10.82	33.7	447.8	6768.89	56.94	1.26
-11.00	34.6	446.8	6786.07	56.93	1.27
-11.33	37.1	445.3	6811.88	56.83	1.33
-11.33	37.3	443.8	6837.76	57.15	1.35
-11.54	40.2	443.7	6839.49	56.91	1.43
-11.81	54.7	441.6	6875.83	57.01	1.91
-11.89	55.9	441.3	6881.04	56.98	1.94
-11.93	57.3	440.5	6894.93	57.10	1.99
-12.07	57.6	439.8	6907.10	57.07	1.98
-12.18	46.3	438.3	6933.24	57.25	1.58
-12.26	43.4	437.1	6954.19	57.41	1.48
-12.42	45.8	436.3	6968.19	57.38	1.54
-12.64	48.3	435.8	6976.95	57.21	1.60
-12.79	44.6	434.8	6994.48	57.24	1.46
-12.89	44.6	433.5	7017.32	57.39	1.45
-13.02	45.5	433.2	7022.59	57.29	1.47
-13.17	46.8	431.4	7054.32	57.50	1.50
-13.35	48.8	430.4	7071.99	57.49	1.54
-13.39	49.3	429.6	7086.15	57.61	1.56

**CSI Profile: STA2RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-13.56	46.3	428.6	7103.88	57.62	1.44
-14.12	55.4	423.9	7187.66	57.95	1.67
-14.33	70.9	423.6	7193.03	57.74	2.10
-14.44	89.2	418.5	7284.91	58.75	2.66
-14.75	89.0	418.0	7293.97	58.47	2.59
-14.95	89.1	414.6	7355.82	58.98	2.57
-15.03	89.1	414.4	7359.47	58.93	2.55
-15.27	88.8	412.8	7388.73	58.99	2.50
-15.34	89.3	412.1	7401.56	59.06	2.51
-15.47	89.5	409.6	7447.54	59.47	2.50
-15.69	89.5	406.5	7504.91	59.91	2.47



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA 2 R502

Radiosonde ✓

Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_

Tetroon \_\_\_\_\_

Date 8/16/94

Ob Time 1853 CDT

Site Chandeleur Islander Breton Sound LA

Observer Blanchard

Barometric Pressure:	<u>1009.3 *</u>	mBars
Dry-Bulb Temperature:	<u>30.5</u>	degrees C
Wet-Bulb Temperature:	<u>23.4</u>	degrees C
Relative Humidity:	<u>55</u>	percent
Wind Speed:	<u>5.5</u>	knots mph <u>(m/s)</u>
Wind Direction:	<u>250</u>	degrees <u>(M)</u> T
Sonde Battery Voltage:	<u>9.47</u>	VDC
Actual Time of Launch:	<u>1900 CDT</u>	

Comments: (Cloud cover, type, flight description, etc.)

H.V. 10676 R.D.U. 77.77

Haze

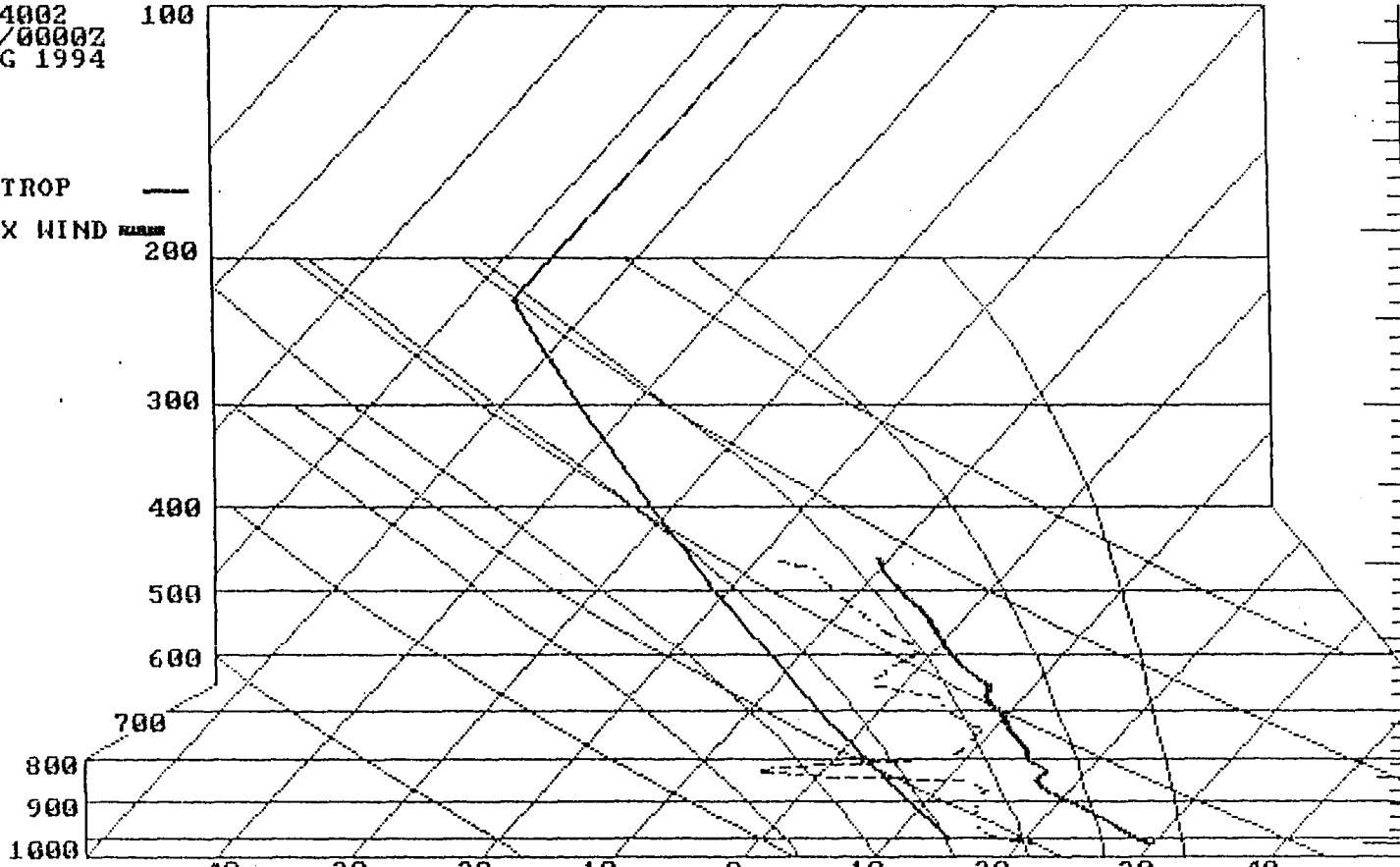
SCT Ci

\* Pressure correction +6.2 mb - 1015.5 mb

Additional Comments on Back

94002  
17/0000Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU

USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-39

Station Number: 94002

DTG of RAOB: 17/0000Z AUG 1994

Indices		Sfc Data: 1015mb T= 29.8°C Td= 20.8°C		Heights	
SSI	= 2.0		-48ft	Sfc Wind: 999/0-1kt	100mb = MISG
RO	= -2.7				150mb = MISG
K Index	= 31.1				200mb = MISG
Lifted Index	= 0.6	Adiabatic Processes			250mb = MISG
Sweat Index	= Missing	Wet Bulb Zero	= 600mb	--	300mb = MISG
Total-Totals	= 42.4	LCL	= 891mb	18.7°C	3521ft
U Totals	= 23.7	LFC	= 869mb	17.8°C	4196ft
X Totals	= 18.7	CCL	= 878mb	18.5°C	3906ft
Fog SI	= Missing	Tc	= --	30.8°C	--
Fog Threat	= 3.9	CCL E.L.	= 832mb	16.6°C	5350ft
Fog Point	= 15.8°C	LFC E.L.	= 841mb	16.6°C	5065ft
		850mb WBPT	= --	19.7°C	--

Inversion Layers	Type	Break	Freezing Levels	Thickness
None			500-300mb = MISG	
			700-500mb = 2722m	
			850-500mb = 4357m	
			850-700mb = 1635m	
			1000-500mb = 5772m	
			1000-700mb = 3050m	
			1000-850mb = 1415m	

Max Wind  
None Reported

Icing Layers			Turbulence Layers		
Base	Top	Intensity	Base	Top	Shear
None			None		

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEM T Analysis

(All Heights MSL)

D40



### CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
29.80	58.0	1015.5	3.00	28.47	15.26
29.53	53.3	1013.9	17.10	28.34	13.80
29.37	53.4	1012.8	26.79	28.27	13.71
29.30	53.7	1011.5	38.26	28.31	13.75
29.20	53.7	1010.2	49.74	28.32	13.69
29.13	53.9	1009.0	60.34	28.36	13.70
29.04	53.9	1008.1	68.30	28.34	13.64
29.02	54.0	1006.9	78.92	28.43	13.66
28.86	53.9	1005.7	89.55	28.37	13.53
28.81	53.6	1004.4	101.08	28.43	13.43
28.74	54.8	1002.9	114.40	28.49	13.70
28.56	55.2	1001.3	128.62	28.45	13.68
28.50	54.2	1000.2	138.40	28.48	13.39
28.40	54.2	998.7	151.76	28.51	13.33
28.29	54.6	997.5	162.46	28.51	13.36
28.20	54.0	996.0	175.84	28.55	13.16
28.08	54.1	994.7	187.45	28.54	13.11
27.98	54.2	993.5	198.17	28.54	13.07
27.88	54.2	992.1	210.70	28.56	13.01
27.78	54.5	990.7	223.24	28.59	13.03
27.62	54.9	989.4	234.89	28.54	13.02
27.57	54.6	988.4	243.86	28.58	12.92
27.48	54.2	987.2	254.64	28.59	12.77
27.44	53.9	986.2	263.63	28.64	12.68
27.37	53.8	984.4	279.82	28.72	12.63
27.29	54.0	984.0	283.42	28.68	12.62
27.20	53.8	982.9	293.33	28.69	12.52
27.18	51.5	981.7	304.15	28.77	11.98
27.20	51.9	980.4	315.88	28.91	12.10
27.15	51.5	979.1	327.63	28.97	11.99
27.08	51.4	978.0	337.59	29.00	11.93
26.99	51.4	976.7	349.36	29.02	11.88
26.92	51.3	975.6	359.33	29.05	11.82
26.82	51.3	974.5	369.30	29.04	11.76
26.74	51.2	973.3	380.20	29.07	11.70
26.63	51.4	972.8	384.74	29.00	11.67
26.46	51.9	969.8	412.03	29.10	11.71
26.34	52.2	968.8	421.14	29.07	11.70
26.28	51.7	967.7	431.17	29.10	11.56
26.17	52.2	966.5	442.11	29.10	11.61
26.07	52.3	965.3	453.07	29.11	11.58
25.93	52.8	964.3	462.21	29.06	11.61
25.85	52.5	963.1	473.19	29.08	11.50
25.80	52.4	962.1	482.34	29.12	11.45

**CSI Profile: STA2RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
25.69	52.6	960.9	493.34	29.12	11.44
25.60	52.6	959.6	505.26	29.14	11.39
25.48	52.9	958.5	515.36	29.12	11.39
25.40	53.2	957.2	527.30	29.16	11.41
25.30	53.1	955.8	540.18	29.18	11.34
25.18	53.6	954.5	552.15	29.18	11.38
25.03	53.7	953.3	563.21	29.14	11.32
24.97	54.0	952.1	574.27	29.18	11.35
24.85	54.1	950.8	586.28	29.18	11.31
24.79	54.0	949.5	598.29	29.24	11.26
24.64	54.2	948.4	608.47	29.19	11.21
24.56	54.1	947.2	619.58	29.21	11.15
24.47	53.5	945.8	632.55	29.25	10.98
24.42	53.5	944.6	643.68	29.31	10.96
24.29	53.7	943.7	652.04	29.26	10.93
24.16	53.9	942.3	665.05	29.26	10.90
24.10	54.0	941.2	675.28	29.30	10.89
23.99	54.2	939.7	689.24	29.32	10.88
23.88	54.1	938.7	698.56	29.30	10.80
23.81	54.0	937.7	707.89	29.32	10.74
23.73	53.9	936.6	718.16	29.34	10.68
23.66	53.9	935.1	732.17	29.41	10.66
23.55	53.9	934.4	738.72	29.36	10.59
23.49	53.8	933.1	750.89	29.42	10.55
23.41	53.8	932.0	761.19	29.44	10.51
23.31	54.0	931.1	769.63	29.43	10.50
23.26	54.3	929.6	783.71	29.51	10.54
23.06	54.5	926.9	809.10	29.56	10.48
22.96	54.6	926.0	817.58	29.54	10.45
22.86	54.5	924.8	828.88	29.55	10.38
22.76	55.0	923.4	842.09	29.58	10.43
22.63	55.8	922.6	849.64	29.52	10.50
22.55	55.5	920.9	865.71	29.60	10.41
22.44	56.0	919.7	877.07	29.60	10.45
22.35	58.7	918.8	885.59	29.59	10.92
22.23	58.6	917.5	897.92	29.59	10.83
22.09	59.2	916.7	905.51	29.53	10.86
21.96	60.2	915.3	918.80	29.53	10.98
21.83	60.7	913.9	932.11	29.52	11.00
21.72	60.8	912.9	941.62	29.51	10.95
21.58	61.8	911.8	952.09	29.47	11.05
21.47	61.5	910.6	963.53	29.47	10.94
21.37	61.8	909.4	974.97	29.48	10.94
21.29	62.1	908.5	983.57	29.48	10.95

### CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
21.21	62.0	907.1	996.94	29.53	10.89
21.14	62.2	906.2	1005.55	29.55	10.89
21.02	62.0	904.9	1018.00	29.55	10.79
20.95	61.8	904.0	1026.62	29.56	10.72
20.86	61.9	902.6	1040.05	29.60	10.69
20.79	62.0	901.5	1050.61	29.64	10.68
20.65	66.2	900.4	1061.18	29.60	11.33
20.49	66.5	898.8	1076.58	29.59	11.29
20.33	68.5	897.7	1087.17	29.53	11.53
20.22	70.8	896.6	1097.78	29.52	11.86
20.06	72.1	895.6	1107.43	29.45	11.97
19.95	72.5	894.2	1120.95	29.48	11.98
19.81	73.2	893.0	1132.55	29.45	12.00
19.66	75.0	891.9	1143.19	29.40	12.21
19.58	75.6	890.8	1153.85	29.42	12.26
19.47	76.2	889.5	1166.45	29.44	12.29
19.38	75.7	888.3	1178.10	29.46	12.15
19.29	76.0	887.0	1190.73	29.49	12.15
19.17	76.3	885.6	1204.35	29.51	12.13
19.07	76.8	884.5	1215.06	29.51	12.15
18.96	77.0	883.2	1227.73	29.52	12.11
18.85	77.3	882.0	1239.44	29.53	12.09
18.75	77.3	880.6	1253.11	29.56	12.04
18.63	77.3	879.6	1262.89	29.53	11.96
18.52	76.1	878.5	1273.65	29.53	11.70
18.49	75.2	877.1	1287.36	29.64	11.56
18.38	74.9	876.0	1298.15	29.63	11.44
18.28	75.1	874.9	1308.94	29.63	11.42
18.20	75.6	873.7	1320.73	29.67	11.45
18.10	75.2	872.4	1333.51	29.70	11.33
18.01	75.3	871.3	1344.34	29.71	11.30
17.93	75.1	869.9	1358.14	29.77	11.23
17.84	75.6	868.8	1368.99	29.78	11.26
17.73	76.3	867.5	1381.83	29.80	11.30
17.61	76.5	866.4	1392.70	29.78	11.26
17.50	76.5	865.2	1404.58	29.79	11.19
17.40	77.5	863.9	1417.45	29.81	11.29
17.16	83.6	861.7	1439.28	29.79	12.04
17.02	84.8	860.4	1452.20	29.77	12.12
16.91	85.9	859.4	1462.15	29.76	12.21
16.80	86.8	858.3	1473.10	29.75	12.27
16.69	87.3	857.0	1486.06	29.77	12.27
16.63	86.0	855.8	1498.04	29.83	12.06
16.52	86.0	854.4	1512.02	29.85	11.99

**CSI Profile: STA2RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.51	82.2	853.5	1521.02	29.93	11.46
16.50	77.3	852.4	1532.03	30.04	10.77
16.49	75.9	851.1	1545.05	30.16	10.58
16.53	71.3	850.3	1553.07	30.28	9.96
16.46	70.3	848.7	1569.14	30.37	9.80
16.34	67.6	846.5	1591.27	30.47	9.37
16.27	66.4	845.4	1602.34	30.51	9.17
16.19	66.2	844.4	1612.43	30.53	9.10
16.17	59.1	843.1	1625.54	30.64	8.12
16.23	57.5	842.0	1636.65	30.82	7.93
16.20	51.6	840.8	1648.79	30.91	7.11
16.25	51.5	839.7	1659.93	31.08	7.13
16.20	50.6	838.7	1670.06	31.13	6.99
16.17	48.8	837.8	1679.19	31.19	6.73
16.18	45.4	836.5	1692.40	31.34	6.27
16.21	44.7	835.5	1702.57	31.47	6.19
16.26	39.6	834.3	1714.78	31.65	5.50
16.42	30.8	833.3	1724.98	31.92	4.32
16.55	29.7	832.1	1737.23	32.19	4.21
16.51	29.3	831.1	1747.45	32.25	4.14
16.50	27.0	829.9	1759.73	32.36	3.82
16.54	25.3	829.0	1768.95	32.50	3.59
16.57	24.3	827.9	1780.24	32.65	3.46
16.58	23.1	826.9	1790.51	32.77	3.29
16.68	22.2	825.6	1803.88	33.01	3.19
16.71	22.3	824.5	1815.21	33.16	3.22
16.70	22.7	823.4	1826.56	33.26	3.28
16.54	29.6	821.2	1849.31	33.33	4.25
16.40	35.0	820.0	1861.74	33.31	4.99
16.15	44.9	818.9	1873.15	33.16	6.32
15.91	50.3	818.0	1882.50	33.00	6.99
15.72	54.6	817.0	1892.89	32.91	7.51
15.67	51.1	815.9	1904.33	32.98	7.01
15.64	50.7	814.8	1915.78	33.06	6.95
15.54	52.2	814.0	1924.12	33.04	7.12
15.45	53.2	812.7	1937.68	33.09	7.23
15.39	54.2	811.8	1947.09	33.12	7.35
15.27	56.3	810.8	1957.54	33.10	7.58
15.20	57.2	809.4	1972.20	33.18	7.68
15.10	57.4	808.2	1984.78	33.20	7.67
14.97	57.9	807.3	1994.22	33.16	7.68
14.87	58.7	806.5	2002.62	33.14	7.75
14.84	58.6	805.0	2018.39	33.27	7.73
14.76	58.7	804.4	2024.70	33.25	7.71

**CSI Profile: STA2RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
14.56	61.1	801.8	2052.10	33.32	7.95
14.47	63.2	800.7	2063.72	33.35	8.19
14.35	65.6	800.2	2069.01	33.27	8.45
14.29	66.9	798.9	2082.76	33.35	8.60
14.25	65.3	798.5	2086.99	33.35	8.37
14.22	65.1	796.8	2105.01	33.51	8.35
14.21	62.1	795.2	2122.00	33.67	7.97
14.14	65.4	793.9	2135.83	33.74	8.37
14.10	66.7	792.4	2151.82	33.87	8.54
14.03	67.3	791.3	2163.56	33.91	8.59
14.01	68.1	790.6	2171.03	33.97	8.69
14.00	68.6	789.8	2179.59	34.05	8.76
13.94	69.0	788.9	2189.22	34.08	8.78
13.91	69.3	787.7	2202.08	34.19	8.82
13.82	69.6	786.7	2212.81	34.20	8.82
13.75	70.0	785.0	2231.08	34.32	8.85
13.72	70.2	784.6	2235.38	34.33	8.86
13.70	72.9	783.2	2250.46	34.46	9.21
13.78	74.6	782.6	2256.93	34.62	9.48
11.83	74.7	781.5	2268.77	32.65	8.35
13.62	75.5	778.5	2301.13	34.91	9.55
13.63	74.9	778.4	2302.21	34.93	9.48
13.68	74.9	777.5	2311.98	35.09	9.52
13.64	74.8	776.3	2325.02	35.18	9.50
13.45	74.8	774.3	2346.79	35.20	9.41
13.49	74.8	772.5	2366.43	35.45	9.45
13.28	75.0	770.0	2393.77	35.51	9.38
13.21	75.2	769.7	2397.06	35.47	9.36
13.10	75.1	768.5	2410.21	35.49	9.30
13.03	75.1	767.3	2423.38	35.55	9.27
13.03	75.5	766.4	2433.26	35.66	9.33
12.96	75.6	765.4	2444.26	35.70	9.31
12.92	75.4	764.8	2450.86	35.72	9.27
12.74	75.7	763.3	2467.39	35.70	9.22
12.63	75.8	762.8	2472.90	35.64	9.17
12.45	76.2	760.1	2502.72	35.76	9.14
12.48	76.7	759.5	2509.36	35.86	9.23
12.40	77.0	758.4	2521.54	35.90	9.23
12.24	77.3	757.6	2530.41	35.82	9.17
12.18	76.1	755.4	2554.84	36.01	9.02
12.17	75.4	754.6	2563.73	36.10	8.94
12.11	75.4	752.8	2583.79	36.24	8.93
12.03	75.9	752.2	2590.48	36.23	8.94
11.92	76.5	751.4	2599.41	36.20	8.96

CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
11.88	77.1	750.5	2609.46	36.26	9.02
11.79	77.5	749.5	2620.65	36.28	9.02
11.71	78.4	748.6	2630.72	36.30	9.09
11.63	82.0	747.4	2644.17	36.36	9.48
11.56	82.1	746.7	2652.03	36.37	9.46
11.51	82.2	745.3	2667.75	36.48	9.45
11.46	83.3	744.6	2675.63	36.51	9.56
11.42	84.2	743.6	2686.89	36.58	9.65
11.37	86.8	742.3	2701.55	36.68	9.94
11.25	86.8	741.2	2713.97	36.68	9.87
11.14	86.7	740.8	2718.49	36.61	9.79
11.06	86.9	739.3	2735.45	36.70	9.78
10.99	86.6	737.1	2760.39	36.89	9.73
10.92	87.6	735.9	2774.02	36.96	9.82
10.85	87.7	735.4	2779.71	36.94	9.79
10.73	88.1	734.3	2792.22	36.95	9.77
10.71	87.2	732.7	2810.45	37.12	9.68
10.66	82.6	730.6	2834.43	37.32	9.16
10.60	81.1	729.9	2842.44	37.34	8.96
10.61	77.5	729.1	2851.60	37.44	8.57
10.63	76.4	728.4	2859.62	37.55	8.47
10.62	72.7	727.4	2871.09	37.66	8.06
10.61	71.0	726.3	2883.72	37.79	7.87
10.52	69.2	724.9	2899.82	37.86	7.64
10.52	67.8	724.4	2905.57	37.92	7.49
10.44	67.8	723.3	2918.25	37.97	7.46
10.35	67.7	721.9	2934.40	38.04	7.42
10.20	67.6	721.2	2942.48	37.96	7.34
10.15	71.2	720.1	2955.20	38.04	7.72
10.11	71.7	719.1	2966.78	38.12	7.77
10.01	70.7	717.9	2980.69	38.16	7.62
10.00	70.1	717.3	2987.65	38.23	7.55
9.96	69.9	715.3	3010.90	38.43	7.53
10.82	63.7	714.2	3023.73	39.52	7.28
9.88	58.7	712.5	3043.58	38.69	6.30
9.84	56.2	711.2	3058.77	38.81	6.03
9.87	56.5	710.7	3064.62	38.91	6.08
9.85	61.4	709.8	3075.15	39.00	6.61
9.77	63.5	708.5	3090.40	39.07	6.81
9.68	66.3	708.0	3096.27	39.04	7.08
9.54	72.9	704.8	3133.93	39.29	7.75
9.43	74.3	703.7	3146.92	39.31	7.86
9.37	75.7	703.0	3155.19	39.33	7.98
9.04	75.7	700.5	3184.77	39.28	7.83

### CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
9.03	74.9	700.2	3188.33	39.31	7.75
8.94	73.3	698.8	3204.93	39.39	7.55
7.96	71.2	697.1	3225.10	38.52	6.87
8.56	73.8	695.0	3250.06	39.45	7.45
8.35	74.9	692.7	3277.51	39.52	7.48
8.31	75.7	692.1	3284.68	39.55	7.54
8.02	75.6	688.8	3324.21	39.66	7.42
8.00	75.7	688.3	3330.22	39.70	7.42
7.84	75.7	686.5	3351.86	39.75	7.36
7.69	79.2	685.9	3359.08	39.67	7.63
7.62	81.7	685.3	3366.31	39.67	7.85
7.54	82.9	684.6	3374.75	39.67	7.93
7.47	83.3	683.5	3388.02	39.73	7.94
7.46	83.8	682.5	3400.10	39.85	8.00
7.45	84.4	681.6	3411.00	39.96	8.06
7.37	84.0	681.0	3418.26	39.95	7.98
7.37	83.4	680.5	3424.32	40.02	7.93
7.31	82.6	679.6	3435.24	40.07	7.83
7.28	81.8	678.3	3451.03	40.21	7.75
7.26	81.5	677.7	3458.33	40.26	7.72
7.21	80.9	675.9	3480.26	40.45	7.66
7.08	79.2	675.2	3488.80	40.39	7.44
7.09	78.0	674.1	3502.24	40.55	7.34
7.11	73.0	673.4	3510.80	40.67	6.88
7.09	68.2	672.0	3527.94	40.83	6.43
6.81	62.5	667.1	3588.16	41.17	5.82
6.78	61.7	666.6	3594.33	41.21	5.73
6.91	59.1	665.6	3606.68	41.49	5.55
6.91	56.6	663.9	3627.71	41.72	5.32
6.81	55.0	663.4	3633.90	41.67	5.14
6.84	57.2	663.0	3638.86	41.76	5.36
6.91	59.1	662.0	3651.28	41.98	5.58
6.69	54.7	659.4	3683.63	42.08	5.10
6.73	54.4	658.8	3691.11	42.21	5.09
6.58	53.7	658.1	3699.84	42.14	4.98
6.57	55.0	656.7	3717.33	42.32	5.11
6.51	51.0	656.3	3722.34	42.31	4.72
6.57	50.2	655.3	3734.86	42.51	4.67
6.42	50.0	654.3	3747.39	42.48	4.61
6.43	50.8	653.3	3759.95	42.63	4.69
6.30	51.9	652.3	3772.52	42.62	4.76
6.25	51.8	651.7	3780.06	42.65	4.74
6.17	52.2	650.7	3792.66	42.70	4.76
5.95	53.0	648.3	3822.95	42.78	4.77

**CSI Profile: STA2RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.88	53.2	648.0	3826.74	42.74	4.77
5.78	53.8	647.4	3834.32	42.71	4.80
5.55	55.1	645.8	3854.58	42.68	4.85
5.48	55.2	644.5	3871.06	42.78	4.84
5.42	55.4	643.5	3883.76	42.85	4.85
5.38	56.0	642.8	3892.67	42.90	4.89
5.17	58.0	641.9	3904.12	42.79	5.00
5.07	59.8	641.3	3911.76	42.76	5.13
4.85	65.5	640.2	3925.78	42.67	5.54
4.74	66.9	638.0	3953.88	42.86	5.64
4.50	67.0	637.2	3964.12	42.70	5.56
4.46	67.3	636.0	3979.49	42.82	5.58
4.45	66.7	635.1	3991.04	42.94	5.53
4.24	67.6	634.6	3997.45	42.77	5.53
4.17	68.6	632.7	4021.88	42.96	5.60
4.11	67.7	631.1	4042.50	43.12	5.52
4.06	67.1	630.8	4046.37	43.11	5.45
3.95	67.9	629.7	4060.58	43.14	5.48
3.85	67.1	628.9	4070.92	43.14	5.39
3.84	65.6	628.4	4077.39	43.20	5.27
3.75	64.9	626.9	4096.83	43.31	5.19
3.66	65.4	626.0	4108.51	43.34	5.20
3.51	65.7	625.2	4118.90	43.29	5.18
3.42	65.9	622.9	4148.84	43.52	5.18
3.34	66.1	622.8	4150.14	43.44	5.17
3.23	66.1	621.7	4164.49	43.47	5.14
3.19	66.3	620.9	4174.94	43.54	5.14
3.08	66.5	620.0	4186.70	43.55	5.13
3.02	66.7	618.4	4207.66	43.71	5.13
2.74	73.3	617.0	4226.03	43.60	5.55
2.69	74.4	615.0	4252.34	43.84	5.63
2.67	71.6	614.3	4261.57	43.92	5.41
2.66	68.8	613.3	4274.76	44.05	5.20
2.65	67.5	612.6	4284.01	44.14	5.11
2.46	67.5	612.3	4287.98	43.97	5.04
2.37	67.5	610.5	4311.80	44.13	5.02
2.25	67.9	609.5	4325.05	44.14	5.02
2.21	68.4	608.7	4335.67	44.22	5.05
2.10	68.6	607.8	4347.63	44.22	5.03
1.91	77.7	605.3	4380.94	44.38	5.65
1.78	82.7	604.5	4391.62	44.35	5.97
1.73	82.3	603.7	4402.32	44.41	5.92
1.66	82.3	602.8	4414.36	44.47	5.90
1.53	82.8	601.3	4434.47	44.54	5.90



### CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
1.43	82.7	600.6	4443.87	44.53	5.86
1.42	82.6	599.7	4455.97	44.66	5.85
1.39	82.3	599.2	4462.69	44.70	5.82
1.35	82.2	598.3	4474.81	44.79	5.81
1.22	81.8	596.7	4496.40	44.88	5.74
1.17	80.9	596.6	4497.75	44.84	5.66
0.91	82.9	593.5	4539.71	45.01	5.72
0.81	83.3	592.8	4549.21	45.00	5.71
0.74	83.8	591.4	4568.23	45.14	5.73
0.47	86.0	589.4	4595.47	45.13	5.79
0.41	86.6	587.7	4618.69	45.32	5.82
0.17	85.6	586.4	4636.47	45.25	5.67
0.09	85.5	584.3	4665.27	45.48	5.65
-0.05	83.4	582.2	4694.16	45.64	5.47
-0.29	83.3	580.5	4717.60	45.63	5.38
-0.26	83.7	579.4	4732.80	45.84	5.43
-0.47	83.8	577.2	4763.28	45.94	5.38
-0.54	83.2	576.6	4771.60	45.95	5.32
-0.58	83.6	575.5	4786.89	46.08	5.34
-0.63	83.7	574.0	4807.78	46.26	5.34
-0.65	83.8	572.8	4824.53	46.43	5.35
-0.74	83.3	572.3	4831.51	46.40	5.28
-0.77	83.2	571.4	4844.10	46.51	5.27
-0.85	83.4	570.7	4853.91	46.53	5.26
-0.90	83.2	569.1	4876.35	46.73	5.24
-0.95	80.1	568.0	4891.82	46.85	5.04
-1.00	79.8	566.8	4908.72	46.98	5.01
-1.01	80.1	566.2	4917.18	47.07	5.03
-1.11	80.0	565.2	4931.30	47.11	5.00
-1.12	79.8	564.6	4939.79	47.20	4.99
-1.18	79.2	563.0	4962.45	47.39	4.94
-1.27	78.0	562.1	4975.22	47.43	4.84
-1.36	74.8	562.0	4976.64	47.34	4.61
-1.42	73.5	560.0	5005.08	47.59	4.53
-1.47	74.1	559.6	5010.78	47.60	4.55
-1.69	75.4	557.1	5046.47	47.75	4.58
-1.75	74.0	556.8	5050.76	47.73	4.47
-1.87	73.0	554.3	5086.60	48.00	4.39
-2.51	72.5	551.7	5123.99	47.67	4.18
-2.24	72.4	550.9	5135.52	48.13	4.26
-2.38	72.6	550.0	5148.52	48.11	4.24
-2.50	72.8	549.6	5154.30	48.03	4.22
-2.60	73.0	548.2	5174.55	48.15	4.21
-2.75	74.4	547.1	5190.49	48.16	4.25

**CSI Profile: STA2RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-2.78	73.4	547.0	5191.95	48.14	4.18
-2.81	73.0	544.6	5226.83	48.51	4.17
-2.89	72.8	543.3	5245.79	48.63	4.14
-2.95	68.9	541.9	5266.25	48.80	3.91
-3.10	65.8	540.2	5291.15	48.91	3.70
-3.21	65.6	539.3	5304.36	48.93	3.67
-3.26	65.3	538.5	5316.11	49.01	3.64
-3.34	65.2	537.6	5329.36	49.07	3.62
-3.43	65.2	535.9	5354.42	49.25	3.61
-3.78	64.7	533.2	5394.36	49.30	3.51
-3.97	64.0	531.7	5416.61	49.33	3.43
-4.13	61.3	530.5	5434.45	49.35	3.25
-4.06	61.2	529.5	5449.34	49.60	3.27
-4.13	63.4	528.4	5465.75	49.71	3.38
-4.23	63.9	527.3	5482.19	49.78	3.38
-4.55	67.4	524.7	5521.16	49.86	3.50
-4.46	67.3	524.4	5525.66	50.02	3.52
-4.53	66.9	524.2	5528.67	49.97	3.48
-4.72	67.2	523.4	5540.70	49.88	3.46
-4.79	67.0	522.0	5561.79	50.04	3.44
-4.91	66.7	520.4	5585.95	50.18	3.40
-5.00	68.0	520.0	5591.99	50.15	3.45
-5.08	68.1	519.1	5605.62	50.21	3.44
-5.12	67.8	518.8	5610.16	50.22	3.41
-5.22	67.3	518.2	5619.26	50.20	3.36
-5.28	66.9	517.3	5632.92	50.29	3.33
-5.34	66.4	516.1	5651.16	50.43	3.30
-5.41	66.1	515.0	5667.92	50.55	3.28
-5.52	65.9	514.4	5677.07	50.52	3.24
-5.60	64.7	513.3	5693.87	50.62	3.17
-5.78	64.4	512.6	5704.58	50.53	3.12
-6.02	64.6	512.4	5707.64	50.28	3.07
-6.13	64.3	510.1	5742.87	50.56	3.04
-6.15	65.1	509.0	5759.78	50.73	3.08
-6.24	64.1	507.7	5779.80	50.86	3.02
-6.40	64.5	507.5	5782.88	50.70	3.01
-6.52	64.5	506.0	5806.03	50.83	2.99
-6.64	64.7	504.5	5829.24	50.96	2.98
-6.85	67.4	502.7	5857.16	51.04	3.06
-6.86	68.4	502.0	5868.05	51.15	3.11
-7.22	65.3	499.0	5914.82	51.27	2.91
-7.28	65.0	497.4	5939.86	51.50	2.89
-7.39	65.2	496.7	5950.84	51.49	2.88
-7.46	64.9	495.6	5968.11	51.61	2.85

### CSI Profile: STA2RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.55	64.8	494.6	5983.85	51.69	2.84
-7.59	65.2	494.2	5990.15	51.72	2.85
-7.86	64.7	491.7	6029.62	51.86	2.78
-7.91	64.3	491.4	6034.37	51.85	2.75
-7.97	64.3	490.4	6050.21	51.97	2.75
-8.06	64.5	489.7	6061.31	51.99	2.74
-8.13	64.7	488.0	6088.34	52.23	2.74
-8.24	64.7	487.9	6089.93	52.11	2.72
-8.31	64.7	487.7	6093.11	52.07	2.71
-8.45	65.0	487.0	6104.26	52.03	2.69
-8.53	65.5	486.3	6115.43	52.06	2.70
-8.56	66.2	484.3	6147.40	52.41	2.73
-8.90	67.1	483.4	6161.82	52.16	2.70
-8.95	67.0	482.3	6179.47	52.31	2.69
-9.07	67.1	481.9	6185.89	52.24	2.68
-9.12	64.4	479.5	6224.55	52.65	2.57
-9.21	64.1	478.9	6234.24	52.65	2.54
-9.83	66.0	474.0	6313.72	52.85	2.52
-9.93	66.0	473.6	6320.24	52.80	2.50
-10.06	66.1	472.6	6336.55	52.84	2.48
-10.08	66.1	471.9	6347.98	52.95	2.48
-10.09	65.6	471.4	6356.15	53.04	2.47
-10.15	64.9	469.7	6384.01	53.30	2.44
-10.54	63.7	467.1	6426.78	53.33	2.33
-10.63	63.5	466.8	6431.72	53.28	2.31
-10.84	61.7	464.0	6478.00	53.58	2.22
-11.01	56.7	462.6	6501.22	53.65	2.02
-10.96	51.4	460.7	6532.84	54.10	1.84
-11.00	50.6	460.5	6536.18	54.09	1.81
-10.97	51.8	459.4	6554.55	54.35	1.86
-11.11	52.6	459.1	6559.57	54.24	1.87
-11.17	53.3	457.9	6579.67	54.41	1.89



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAR 2 R503

Radiosonde  Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_

Date 8/17/94 Ob Time 0620 CDT

Site Chandeleur Islander Breton Sound LA

Observer Blanchard

Barometric Pressure:	<u>1011.6*</u>	mBars
Dry-Bulb Temperature:	<u>28.2</u>	degrees C
Wet-Bulb Temperature:	<u>23.7</u>	degrees C
Relative Humidity:	<u>69</u>	percent
Wind Speed:	<u>5-10 est</u>	<u>knots</u> mph m/s
Wind Direction:	<u>W est</u>	degrees M T
Sonde Battery Voltage:	<u>9.47</u>	VDC
Actual Time of Launch:	<u>0631 CDT</u>	

Comments: (Cloud cover, type, flight description, etc.)

HV. 10676 R.D.V. 77.77

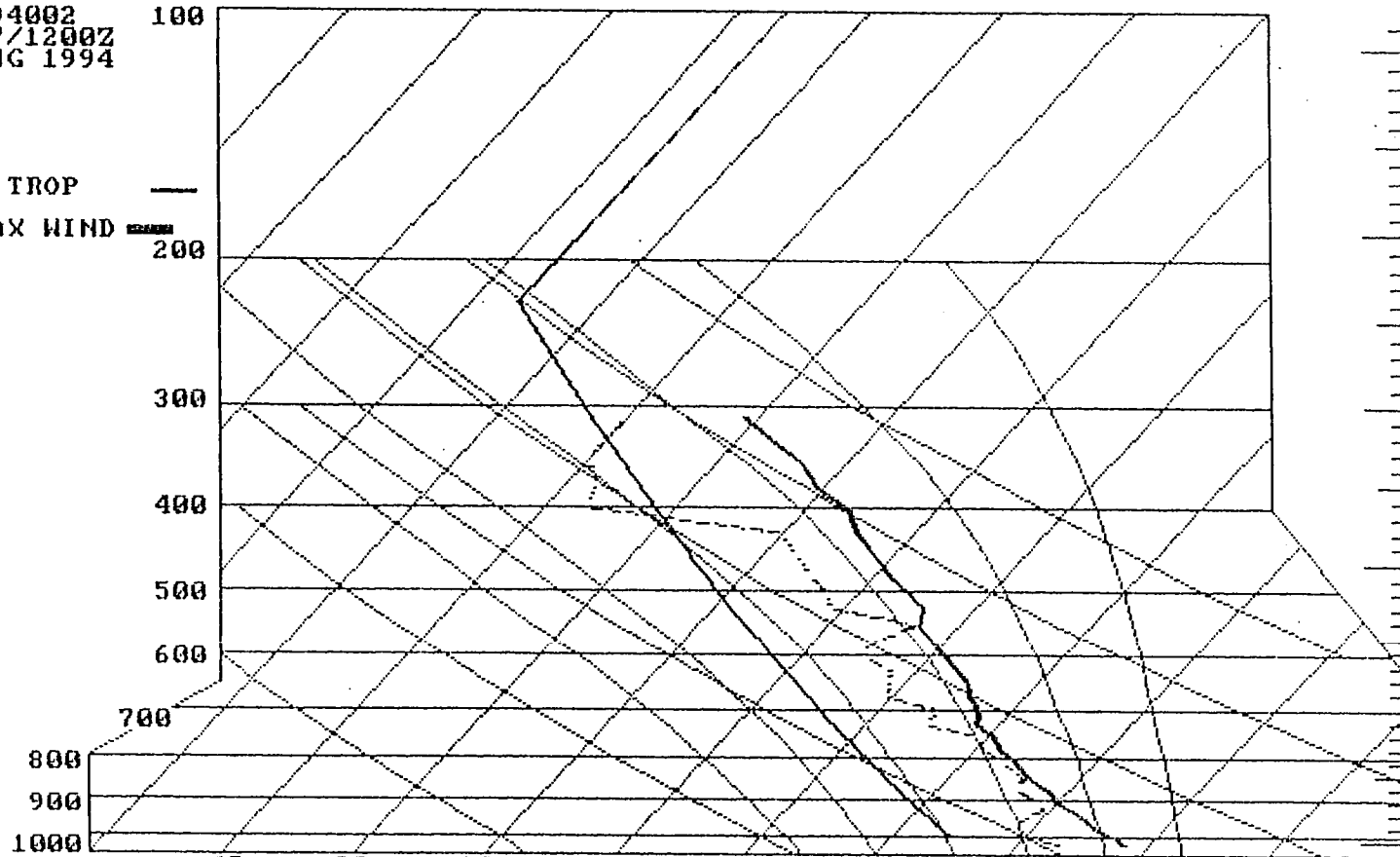
BKN - OVC Stratocumulus cumulogetitus

\* Pressure correction +6.2 mb - 1017.8 mb

Additional Comments on Back

94002  
17/1200Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...  
USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-53

Station Number: 94002

DTG of RAOB: 17/1200Z AUG 1994

Indices	=		Sfc Data: 1018mb T= 27.8°C Td= 22.8°C	Heights	
SSI	=	-1.1	-129ft	Sfc Wind: 999/0-1kt	100mb = MISG
KO	=	-10.4			150mb = MISG
K Index	=	36.0			200mb = MISG
Lifted Index	=	-1.4		Adiabatic Processes	250mb = MISG
Sweat Index	=	Missing	Wet Bulb Zero = 625mb -- 12768ft		300mb = MISG
Total-Totals	=	45.4	LCL = 947mb 21.6°C 1869ft		400mb = 7610M
U Totals	=	22.9	LFC = 912mb 20.4°C 2870ft		500mb = 5890M
X Totals	=	22.5	CCL = 922mb 21.1°C 2592ft		700mb = 3191M
Fog SI	=	Missing	Tc = -- 29.6°C		850mb = 1577M
Fog Threat	=	2.0	CCL E.L. = None		1000mb = 154M
Fog Point	=	20.0°C	LFC E.L. = None		
			850mb WBPT = -- 22.0°C --		

Inversion Layers	Type	Break	Freezing Levels
None			589mb 14242ft

Thickness	
500-300mb	= MISG
700-500mb	= 2699M
850-500mb	= 4313M
850-700mb	= 1614M
1000-500mb	= 5736M
1000-700mb	= 3037M
1000-850mb	= 1423M

Max Wind  
None Reported

Icing Layers			Turbulence Layers		
Base	Top	Intensity	Base	Top	Shear
15800ft	- 15900ft	3.3	None		

Trop Data  
None Reported

THREAT COLORS

Low
Moderate
High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-54

**CSI Profile: STA2RS03**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.88	73.8	1017.8	3.00	26.36	17.39
27.74	69.2	1015.7	21.38	26.40	16.18
27.58	69.0	1013.0	45.04	26.47	16.02
27.39	68.7	1010.7	65.24	26.48	15.81
27.25	68.7	1009.2	78.42	26.46	15.70
27.12	68.8	1007.7	91.62	26.46	15.62
26.98	68.9	1005.7	109.24	26.49	15.55
26.83	69.2	1004.0	124.24	26.49	15.50
26.65	69.3	1002.4	138.37	26.44	15.38
26.51	69.6	1000.6	154.29	26.46	15.35
26.36	70.4	998.6	171.99	26.48	15.42
26.19	70.8	996.7	188.84	26.47	15.38
26.04	71.0	994.8	205.71	26.49	15.32
25.91	71.1	993.1	220.82	26.50	15.25
25.72	71.4	991.4	235.95	26.46	15.16
25.58	72.3	989.5	252.88	26.48	15.26
25.43	72.9	988.0	266.27	26.46	15.27
25.30	73.9	986.2	282.35	26.49	15.39
25.17	74.4	984.6	296.66	26.50	15.40
25.01	75.0	982.7	313.68	26.50	15.41
24.86	75.3	981.0	328.93	26.50	15.36
24.70	76.0	979.1	345.99	26.50	15.39
24.54	74.7	977.0	364.88	26.53	15.00
24.61	70.4	975.5	378.38	26.73	14.20
24.53	70.7	973.8	393.71	26.80	14.22
24.45	69.5	972.1	409.07	26.87	13.93
24.39	68.3	970.3	425.34	26.97	13.66
24.27	69.3	968.9	438.02	26.97	13.78
24.16	67.9	967.3	452.52	27.00	13.43
24.12	68.1	965.7	467.05	27.10	13.46
24.14	63.6	964.2	480.68	27.26	12.59
24.16	60.9	962.8	493.42	27.40	12.08
24.16	60.5	961.3	507.09	27.54	12.02
24.03	63.6	959.9	519.86	27.53	12.56
23.87	64.2	958.5	532.65	27.49	12.58
23.74	64.6	957.1	545.45	27.49	12.58
23.61	66.3	955.6	559.18	27.49	12.83
23.46	68.4	954.0	573.85	27.48	13.15
23.29	70.9	952.6	586.70	27.44	13.52
23.16	73.1	951.0	601.40	27.45	13.86
23.01	76.7	949.6	614.29	27.42	14.44
22.91	79.0	948.1	628.11	27.46	14.82
22.79	79.6	946.7	641.03	27.46	14.85
22.65	80.8	945.1	655.81	27.47	14.97

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
22.54	82.3	943.7	668.76	27.48	15.18
22.43	83.0	942.3	681.72	27.50	15.23
22.31	83.8	940.7	696.56	27.52	15.29
22.18	84.5	939.2	710.48	27.53	15.32
22.07	85.2	937.8	723.50	27.54	15.37
21.94	87.3	936.2	738.39	27.56	15.66
21.81	88.5	934.9	750.50	27.54	15.77
21.73	88.5	933.5	763.56	27.59	15.72
21.62	88.6	932.2	775.70	27.60	15.65
21.56	89.1	930.8	788.79	27.67	15.70
21.49	90.9	929.4	801.90	27.72	15.98
21.40	91.5	928.0	815.02	27.76	16.03
21.37	90.1	926.4	830.04	27.88	15.77
21.37	87.6	925.1	842.26	28.00	15.35
21.36	85.6	923.6	856.38	28.13	15.00
21.29	86.0	922.3	868.63	28.18	15.03
21.19	86.3	921.0	880.89	28.20	15.01
20.98	87.1	918.5	904.51	28.22	15.00
20.85	87.6	916.9	919.66	28.24	14.99
20.74	88.1	915.3	934.82	28.27	15.00
20.62	88.4	914.1	946.20	28.26	14.96
20.50	88.8	912.5	961.40	28.29	14.94
20.39	89.3	911.1	974.71	28.31	14.95
20.26	89.7	909.8	987.09	28.30	14.91
20.14	90.1	908.4	1000.43	28.31	14.89
20.02	90.5	906.9	1014.74	28.33	14.87
19.90	90.8	905.4	1029.07	28.35	14.84
19.79	91.3	903.9	1043.42	28.38	14.84
19.64	91.7	902.6	1055.87	28.35	14.79
19.52	92.3	901.1	1070.25	28.37	14.80
19.40	92.8	899.8	1082.72	28.37	14.79
19.27	93.3	898.2	1098.10	28.39	14.78
19.17	93.5	896.9	1110.60	28.41	14.74
19.04	93.8	895.4	1125.05	28.42	14.69
18.94	93.9	894.1	1137.58	28.44	14.63
18.84	94.0	892.6	1152.06	28.48	14.58
18.71	94.4	891.2	1165.59	28.48	14.54
18.60	94.3	889.8	1179.14	28.51	14.45
18.50	94.3	888.4	1192.70	28.54	14.38
18.39	94.5	887.1	1205.31	28.55	14.33
18.28	94.8	885.5	1220.84	28.59	14.30
18.20	94.6	884.0	1235.43	28.66	14.22
18.12	94.9	882.5	1250.03	28.72	14.22
18.09	94.2	881.0	1264.66	28.84	14.11



CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
18.14	93.5	879.5	1279.31	29.04	14.07
18.15	91.8	878.1	1293.01	29.18	13.84
18.18	87.0	876.7	1306.72	29.35	13.15
18.15	85.6	875.3	1320.46	29.46	12.93
18.09	83.5	873.5	1338.15	29.58	12.59
18.01	80.1	872.3	1349.95	29.61	12.02
17.97	78.1	870.9	1363.74	29.71	11.70
17.93	78.5	869.7	1375.57	29.79	11.75
17.85	80.5	868.1	1391.37	29.86	12.02
17.72	83.5	866.8	1404.23	29.86	12.39
17.62	83.5	865.3	1419.08	29.90	12.33
17.51	83.3	863.9	1432.96	29.93	12.23
17.39	83.8	862.4	1447.85	29.96	12.24
17.27	86.3	861.2	1459.78	29.95	12.53
17.13	87.4	859.7	1474.71	29.96	12.60
17.02	86.6	858.5	1486.66	29.96	12.41
16.93	84.2	856.9	1502.62	30.03	12.01
16.89	87.2	855.7	1514.61	30.11	12.44
16.71	94.5	854.2	1529.62	30.07	13.37
16.56	96.1	852.6	1545.65	30.08	13.49
16.43	97.2	851.1	1560.70	30.10	13.56
16.30	97.5	849.5	1576.77	30.12	13.51
16.20	97.3	848.0	1591.87	30.17	13.42
16.09	97.4	846.7	1604.96	30.19	13.36
15.98	97.2	845.1	1621.10	30.24	13.26
15.87	96.9	843.7	1635.24	30.27	13.15
15.79	96.8	842.3	1649.40	30.33	13.09
15.70	96.6	840.7	1665.61	30.40	13.01
15.55	96.5	838.9	1683.87	30.42	12.90
15.46	96.5	837.1	1702.16	30.52	12.85
15.34	96.4	834.8	1725.58	30.63	12.77
15.26	96.2	833.1	1742.92	30.72	12.71
15.15	96.0	831.4	1760.29	30.78	12.61
15.01	96.0	829.6	1778.72	30.82	12.53
14.89	95.9	827.9	1796.15	30.88	12.44
14.71	95.9	826.1	1814.63	30.88	12.32
14.65	95.8	824.4	1832.11	30.99	12.29
14.56	95.6	823.0	1846.53	31.04	12.21
14.44	95.6	821.2	1865.11	31.11	12.14
14.25	95.5	819.2	1885.78	31.12	12.00
14.23	95.5	817.7	1901.30	31.26	12.01
14.12	95.5	815.3	1926.20	31.40	11.96
14.02	95.3	813.4	1945.96	31.49	11.88
13.93	95.2	812.1	1959.50	31.54	11.82

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
13.86	95.1	810.8	1973.06	31.60	11.77
13.69	95.0	808.9	1992.90	31.63	11.66
13.65	94.9	807.0	2012.78	31.79	11.64
13.49	94.8	804.5	2039.01	31.89	11.54
13.40	94.7	802.7	2057.93	31.99	11.49
13.23	94.6	801.5	2070.56	31.94	11.36
13.16	94.6	800.1	2085.31	32.02	11.33
13.10	94.6	798.7	2100.09	32.11	11.31
13.08	94.4	796.9	2119.12	32.28	11.29
13.03	94.3	795.2	2137.13	32.41	11.27
13.04	94.1	793.7	2153.06	32.59	11.27
12.97	93.9	792.0	2171.14	32.70	11.22
12.94	93.6	790.0	2192.46	32.89	11.19
12.86	93.3	788.4	2209.55	32.98	11.12
12.75	93.0	786.6	2228.81	33.07	11.02
12.66	92.7	785.0	2245.96	33.15	10.95
12.63	92.5	783.2	2265.29	33.32	10.92
12.53	92.2	781.6	2282.51	33.39	10.84
12.51	92.1	779.5	2305.15	33.60	10.84
12.01	92.0	777.6	2325.67	33.28	10.50
11.43	92.2	776.6	2336.47	32.77	10.13
11.33	92.4	775.3	2350.51	32.81	10.11
11.29	92.5	774.1	2363.48	32.90	10.11
11.23	92.5	772.8	2377.56	32.98	10.08
11.16	92.6	771.7	2389.49	33.03	10.06
11.15	92.6	770.8	2399.26	33.12	10.07
11.28	92.4	769.7	2411.22	33.39	10.15
11.07	92.3	768.4	2425.37	33.31	10.01
10.97	92.3	767.2	2438.45	33.34	9.96
10.88	92.3	766.0	2451.55	33.38	9.91
10.79	92.2	764.9	2463.56	33.41	9.86
10.71	92.3	764.0	2473.41	33.43	9.83
10.51	92.3	762.2	2493.11	33.42	9.72
10.43	92.3	761.2	2504.08	33.45	9.68
10.32	92.3	759.5	2522.74	33.52	9.63
10.50	92.1	758.2	2537.04	33.87	9.74
10.46	92.1	756.4	2556.89	34.03	9.74
10.41	91.9	755.7	2564.62	34.06	9.69
10.43	91.8	754.7	2575.68	34.20	9.71
10.36	91.7	753.4	2590.07	34.27	9.67
10.30	91.7	752.8	2596.72	34.28	9.64
10.20	91.7	751.7	2608.92	34.30	9.59
10.01	91.6	750.3	2624.47	34.26	9.47
9.58	91.8	749.1	2637.80	33.93	9.23

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
9.42	91.8	748.0	2650.03	33.89	9.15
9.08	91.3	747.3	2657.81	33.60	8.90
8.89	89.0	745.9	2673.38	33.56	8.57
8.84	87.1	745.2	2681.17	33.59	8.37
8.82	86.6	744.1	2693.42	33.69	8.32
8.84	86.3	743.3	2702.34	33.81	8.31
8.89	86.3	742.0	2716.87	34.02	8.35
8.79	85.0	740.5	2733.66	34.09	8.19
8.73	84.1	739.7	2742.62	34.12	8.07
8.67	83.5	738.9	2751.59	34.15	7.99
8.49	80.6	737.5	2767.30	34.12	7.63
8.40	79.0	736.6	2777.41	34.13	7.44
8.37	79.2	735.0	2795.42	34.28	7.46
8.32	78.9	733.7	2810.07	34.38	7.42
8.03	75.7	732.6	2822.48	34.20	6.99
8.04	75.3	730.4	2847.34	34.47	6.97
8.07	76.1	729.5	2857.53	34.62	7.07
8.05	76.3	728.5	2868.87	34.72	7.09
8.06	76.5	727.0	2885.91	34.91	7.13
8.04	76.7	725.9	2898.43	35.02	7.15
8.04	76.3	724.7	2912.10	35.16	7.12
7.96	75.8	723.6	2924.66	35.21	7.05
7.98	75.6	722.3	2939.52	35.39	7.05
7.82	74.9	721.2	2952.11	35.35	6.92
7.76	74.9	720.3	2962.42	35.39	6.90
7.69	75.3	718.9	2978.48	35.49	6.92
7.68	74.9	717.2	2998.03	35.69	6.89
7.60	74.6	716.3	3008.39	35.71	6.84
7.59	74.6	715.5	3017.61	35.80	6.84
7.47	73.9	712.6	3051.12	36.03	6.75
7.56	75.3	711.8	3060.38	36.22	6.93
7.71	79.7	710.7	3073.15	36.53	7.42
7.70	80.5	709.6	3085.94	36.65	7.50
7.65	79.1	708.3	3101.08	36.76	7.36
7.46	75.8	706.2	3125.59	36.81	6.98
7.55	78.9	705.1	3138.45	37.05	7.32
7.47	78.8	703.8	3153.68	37.13	7.29
7.40	79.3	702.2	3172.45	37.25	7.32
7.28	80.7	700.8	3188.91	37.29	7.40
7.27	83.1	700.6	3191.26	37.31	7.62
7.21	84.3	699.2	3207.76	37.42	7.72
7.07	82.1	698.9	3211.30	37.30	7.44
6.95	75.2	697.6	3226.63	37.34	6.77
6.79	74.0	696.2	3243.16	37.34	6.60

**CSI Profile: STA2RS03**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.69	70.9	694.4	3264.46	37.46	6.29
6.65	68.8	693.8	3271.56	37.49	6.09
6.59	68.2	693.0	3281.05	37.52	6.02
6.52	67.4	691.7	3296.47	37.61	5.93
6.46	67.4	690.6	3309.55	37.69	5.91
6.34	67.3	689.5	3322.64	37.70	5.87
6.34	69.5	688.1	3339.33	37.88	6.07
6.31	69.1	687.6	3345.30	37.91	6.03
6.22	67.8	686.3	3360.83	37.98	5.89
6.12	66.8	684.9	3377.59	38.05	5.77
5.99	65.3	683.4	3395.57	38.10	5.60
5.93	65.1	682.8	3402.77	38.11	5.57
5.79	65.6	681.3	3420.79	38.15	5.57
5.70	65.9	679.9	3437.64	38.23	5.57
5.73	65.4	678.5	3454.52	38.45	5.55
5.66	64.6	677.5	3466.60	38.50	5.46
5.49	64.3	676.6	3477.48	38.43	5.38
5.58	63.9	675.3	3493.22	38.70	5.39
5.61	63.4	674.7	3500.50	38.81	5.36
5.61	62.8	673.7	3512.64	38.95	5.32
5.63	63.5	671.6	3538.20	39.25	5.41
5.57	64.6	671.2	3543.08	39.23	5.48
5.47	64.3	669.0	3569.95	39.42	5.43
5.33	62.9	667.1	3593.21	39.51	5.28
5.29	62.9	666.5	3600.57	39.55	5.27
5.33	62.7	665.2	3616.53	39.77	5.28
5.35	62.1	663.9	3632.53	39.96	5.24
5.45	63.7	660.9	3669.58	40.48	5.44
5.15	64.5	657.9	3706.78	40.55	5.42
5.01	64.8	657.7	3709.27	40.42	5.40
4.91	65.1	657.0	3717.97	40.41	5.39
4.88	65.7	655.0	3742.86	40.65	5.44
4.72	66.2	653.6	3760.33	40.66	5.44
4.65	66.4	652.8	3770.32	40.69	5.43
4.71	66.3	651.3	3789.09	40.96	5.46
4.66	65.6	650.0	3805.39	41.09	5.39
4.57	65.5	648.5	3824.24	41.19	5.36
4.52	65.1	646.9	3844.39	41.36	5.32
4.28	64.5	645.6	3860.78	41.27	5.20
4.22	64.7	644.0	3880.99	41.42	5.20
4.23	65.2	642.9	3894.92	41.59	5.26
4.06	65.4	642.1	3905.06	41.50	5.22
3.88	65.7	639.8	3934.26	41.62	5.19
3.79	66.1	637.2	3967.38	41.89	5.21

### CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.40	66.4	637.1	3968.65	41.46	5.09
3.47	66.2	636.3	3978.86	41.65	5.11
3.42	66.4	634.3	4004.42	41.88	5.12
3.30	67.2	633.4	4015.95	41.87	5.15
3.19	67.7	632.4	4028.78	41.89	5.16
3.07	68.2	631.0	4046.75	41.95	5.16
2.99	68.9	629.5	4066.06	42.07	5.20
2.83	69.4	629.1	4071.21	41.95	5.18
2.81	69.8	627.8	4087.97	42.11	5.21
2.75	69.8	627.0	4098.30	42.16	5.20
2.81	68.7	626.2	4108.65	42.34	5.14
2.80	69.2	625.1	4122.89	42.49	5.19
2.51	69.4	622.9	4151.45	42.47	5.11
2.56	67.7	621.4	4170.96	42.75	5.02
2.43	69.4	620.4	4184.00	42.75	5.10
2.31	69.0	619.7	4193.13	42.71	5.04
2.34	66.7	618.0	4215.35	42.99	4.89
2.23	64.7	616.0	4241.56	43.16	4.72
1.96	65.2	613.4	4275.74	43.23	4.69
1.75	65.1	611.4	4302.10	43.29	4.62
1.62	65.9	611.1	4306.06	43.18	4.64
1.65	66.7	608.5	4340.45	43.60	4.73
1.54	66.8	607.2	4357.70	43.67	4.71
1.43	67.6	606.8	4363.01	43.60	4.73
1.34	69.4	604.7	4390.95	43.81	4.84
1.28	72.0	604.5	4393.62	43.77	5.00
1.03	69.5	602.4	4421.64	43.80	4.76
0.93	67.9	600.6	4445.73	43.95	4.63
0.81	65.9	599.6	4459.13	43.97	4.46
0.83	63.7	599.5	4460.47	44.00	4.32
0.81	62.0	597.7	4484.65	44.25	4.21
0.65	60.5	596.7	4498.11	44.22	4.06
0.63	60.5	595.6	4512.93	44.37	4.07
0.42	60.0	594.8	4523.72	44.24	3.98
0.32	59.7	594.0	4534.53	44.25	3.93
0.25	60.5	592.7	4552.10	44.37	3.97
0.17	61.0	591.9	4562.94	44.40	3.99
0.03	60.4	590.8	4577.85	44.40	3.92
0.05	60.0	590.1	4587.35	44.53	3.90
0.07	59.4	588.8	4605.03	44.76	3.88
-0.03	61.5	587.9	4617.30	44.78	3.99
-0.13	61.5	586.9	4630.94	44.82	3.97
-0.29	61.6	586.0	4643.23	44.77	3.93
-0.37	59.9	584.6	4662.37	44.90	3.81

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-0.40	61.3	584.1	4669.22	44.94	3.90
-0.49	63.2	582.6	4689.80	45.07	4.00
-0.64	64.5	582.4	4692.54	44.92	4.04
-0.82	63.7	580.2	4722.80	45.06	3.95
-0.88	65.4	579.2	4736.58	45.15	4.05
-1.01	70.9	577.8	4755.91	45.21	4.36
-1.14	74.3	577.1	4765.59	45.17	4.53
-1.27	75.1	574.8	4797.47	45.38	4.56
-1.49	76.6	573.6	4814.14	45.32	4.58
-1.64	80.5	572.5	4829.44	45.32	4.77
-1.82	82.7	570.9	4851.74	45.36	4.85
-1.85	84.3	569.9	4865.71	45.48	4.95
-2.01	84.9	567.7	4896.51	45.65	4.94
-3.14	84.5	567.2	4903.51	44.40	4.52
-2.16	85.6	565.6	4925.94	45.81	4.95
-2.34	85.9	564.6	4940.01	45.76	4.91
-2.63	86.3	561.8	4979.52	45.87	4.85
-2.88	87.5	558.5	5026.28	46.11	4.85
-2.91	86.6	557.4	5041.93	46.26	4.80
-2.80	87.5	557.1	5046.20	46.44	4.89
-2.86	95.5	554.8	5079.04	46.74	5.34
-2.93	96.2	553.1	5103.39	46.94	5.37
-3.39	100.0	551.9	5120.61	46.60	5.41
-3.48	99.1	551.2	5130.67	46.61	5.33
-3.43	96.0	550.0	5147.93	46.86	5.19
-3.44	94.4	549.3	5158.01	46.97	5.11
-3.46	91.9	548.3	5172.44	47.11	4.97
-3.54	82.2	547.0	5191.23	47.23	4.43
-3.60	89.8	546.2	5202.81	47.30	4.82
-3.68	90.2	544.7	5224.57	47.45	4.83
-3.80	91.0	544.1	5233.29	47.41	4.83
-3.87	91.3	543.0	5249.29	47.51	4.84
-4.03	91.7	542.2	5260.94	47.46	4.80
-4.13	91.7	540.5	5285.75	47.63	4.78
-4.12	94.6	539.0	5307.70	47.90	4.95
-3.74	86.1	537.4	5331.19	48.62	4.65
-3.71	81.7	536.4	5345.92	48.83	4.43
-3.73	78.7	535.3	5362.16	48.99	4.27
-3.82	75.8	534.8	5369.54	48.97	4.09
-3.73	72.4	534.6	5372.50	49.12	3.93
-3.81	69.2	532.6	5402.12	49.37	3.75
-3.80	66.3	531.8	5414.00	49.52	3.60
-3.90	61.1	529.8	5443.77	49.74	3.30
-3.92	58.8	528.6	5461.67	49.93	3.18

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-3.90	59.2	527.0	5485.61	50.23	3.21
-4.10	60.7	526.3	5496.10	50.12	3.25
-4.27	60.0	524.4	5524.63	50.25	3.18
-4.36	59.7	523.4	5539.68	50.31	3.15
-4.49	59.7	522.4	5554.75	50.33	3.13
-4.64	59.5	521.1	5574.38	50.38	3.09
-4.71	59.6	520.2	5587.99	50.46	3.08
-4.84	59.8	519.7	5595.56	50.39	3.07
-4.86	59.6	518.0	5621.34	50.67	3.06
-4.90	60.5	517.4	5630.46	50.73	3.10
-4.92	61.3	516.6	5642.63	50.85	3.14
-4.97	60.1	515.2	5663.98	51.04	3.08
-4.95	59.3	514.7	5671.61	51.16	3.04
-5.12	59.4	512.3	5708.36	51.38	3.02
-5.29	59.6	511.5	5720.64	51.32	3.00
-5.48	59.8	510.5	5736.01	51.27	2.97
-5.46	60.0	509.6	5749.86	51.46	2.99
-5.64	60.2	509.3	5754.48	51.30	2.96
-5.80	61.0	508.1	5772.98	51.32	2.97
-6.08	61.7	504.9	5822.49	51.57	2.96
-6.23	61.3	504.4	5830.24	51.48	2.91
-6.15	59.0	503.6	5842.67	51.72	2.82
-6.40	59.1	502.4	5861.34	51.64	2.78
-6.71	60.1	500.6	5889.39	51.60	2.77
-6.79	59.6	499.3	5909.70	51.74	2.74
-6.89	59.8	498.5	5922.23	51.77	2.73
-7.07	60.0	496.5	5953.60	51.92	2.71
-7.17	60.1	495.5	5969.33	51.99	2.70
-7.29	60.3	494.0	5992.96	52.12	2.69
-7.74	61.0	491.9	6026.14	51.97	2.64
-7.66	61.7	491.0	6040.40	52.24	2.70
-7.76	61.9	489.7	6061.03	52.36	2.69
-7.97	61.8	488.6	6078.52	52.31	2.65
-8.15	60.8	487.7	6092.85	52.26	2.57
-8.22	61.0	486.7	6108.79	52.37	2.57
-8.34	61.3	485.5	6127.96	52.45	2.57
-8.45	61.7	484.7	6140.76	52.47	2.57
-8.49	60.8	483.8	6155.19	52.59	2.53
-8.46	60.9	482.9	6169.63	52.80	2.54
-8.61	60.8	482.1	6182.50	52.77	2.51
-8.70	60.7	481.3	6195.37	52.82	2.49
-8.75	60.7	480.8	6203.43	52.85	2.49
-8.98	61.0	478.4	6242.20	53.03	2.47
-9.09	61.5	477.0	6264.89	53.17	2.47

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.26	61.8	476.6	6271.39	53.04	2.45
-9.41	62.2	475.8	6284.38	53.01	2.44
-9.42	62.4	474.7	6302.27	53.22	2.46
-9.54	62.1	473.7	6318.58	53.26	2.43
-9.71	60.7	472.8	6333.27	53.23	2.34
-9.78	56.6	472.1	6344.71	53.28	2.18
-9.73	52.3	470.8	6365.99	53.60	2.02
-9.81	52.0	470.6	6369.27	53.54	2.00
-9.97	52.0	469.5	6387.33	53.56	1.98
-10.08	51.9	468.9	6397.19	53.54	1.96
-10.18	52.8	468.1	6410.35	53.58	1.98
-10.28	57.8	466.9	6430.13	53.70	2.16
-10.32	55.8	466.5	6436.74	53.73	2.08
-10.39	52.3	465.1	6459.88	53.92	1.94
-10.51	51.3	464.7	6466.51	53.85	1.89
-10.77	51.1	463.3	6489.72	53.81	1.85
-10.82	51.9	462.7	6499.68	53.87	1.87
-10.80	52.2	462.2	6508.00	53.99	1.89
-10.93	51.2	461.2	6524.64	54.04	1.84
-10.85	51.0	460.2	6541.33	54.34	1.85
-11.15	50.6	459.7	6549.68	54.07	1.79
-11.16	50.6	458.3	6573.09	54.34	1.79
-11.20	50.9	458.1	6576.44	54.33	1.80
-11.17	52.6	456.7	6599.94	54.65	1.87
-11.37	53.6	455.7	6616.76	54.61	1.88
-11.56	54.6	455.3	6623.50	54.45	1.89
-11.48	58.0	454.0	6645.42	54.82	2.02
-11.54	57.8	453.3	6657.25	54.89	2.01
-11.73	62.0	452.6	6669.10	54.80	2.13
-11.95	62.4	451.1	6694.53	54.83	2.11
-12.10	62.3	450.3	6708.11	54.81	2.09
-12.13	58.0	449.8	6716.61	54.88	1.94
-12.30	54.6	448.7	6735.33	54.89	1.80
-12.41	53.6	448.6	6737.04	54.78	1.76
-12.38	53.7	447.8	6750.67	54.98	1.77
-12.47	53.9	446.8	6767.76	55.08	1.76
-12.59	54.2	445.8	6784.87	55.14	1.76
-12.72	54.6	445.2	6795.15	55.10	1.76
-12.77	55.5	444.4	6808.87	55.21	1.78
-12.78	53.0	444.0	6815.74	55.28	1.70
-12.90	46.9	443.6	6822.62	55.21	1.49
-12.90	46.7	442.5	6841.55	55.44	1.49
-12.94	49.5	441.9	6851.89	55.52	1.58
-12.97	53.4	441.1	6865.71	55.65	1.70



**CSI Profile: STA2RS03**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-13.04	55.6	440.6	6874.35	55.67	1.76
-13.00	56.3	439.4	6895.14	55.98	1.79
-13.11	57.1	439.0	6902.09	55.93	1.81
-13.28	57.4	438.2	6915.98	55.88	1.79
-13.24	57.9	437.9	6921.20	56.00	1.82
-13.48	57.9	436.8	6940.34	55.93	1.79
-13.46	58.4	436.0	6954.29	56.13	1.81
-13.49	59.0	435.5	6963.02	56.20	1.82
-13.67	59.4	434.5	6980.51	56.19	1.81
-13.86	60.3	434.2	6985.76	56.01	1.81
-13.90	60.9	433.3	7001.53	56.15	1.83
-13.94	60.4	432.0	7024.35	56.39	1.81
-13.84	59.7	431.2	7038.43	56.69	1.81
-14.18	59.5	430.1	7057.83	56.50	1.76
-14.13	59.3	429.1	7075.50	56.78	1.76
-14.29	58.9	428.0	7094.97	56.82	1.73
-14.60	58.6	426.4	7123.37	56.78	1.69
-14.63	58.4	425.3	7142.93	56.98	1.68
-14.96	59.1	423.3	7178.62	57.01	1.66
-15.07	59.3	422.2	7198.30	57.11	1.66
-15.22	59.6	421.5	7210.84	57.07	1.65
-15.35	59.6	420.8	7223.40	57.07	1.63
-15.54	57.5	419.9	7239.57	57.02	1.56
-15.75	53.5	418.4	7266.57	57.09	1.43
-15.95	53.7	417.4	7284.61	57.06	1.41
-16.03	55.2	415.9	7311.73	57.30	1.45
-16.30	53.3	415.5	7318.97	57.04	1.37
-16.35	52.0	413.5	7355.28	57.43	1.33
-16.40	50.1	413.3	7358.92	57.42	1.28
-16.44	42.5	411.5	7391.74	57.78	1.09
-16.52	43.7	409.7	7424.70	58.09	1.12
-16.67	49.8	408.2	7452.27	58.24	1.26
-16.67	51.3	406.5	7483.62	58.64	1.30
-16.79	44.0	405.5	7502.12	58.72	1.11
-16.73	40.9	404.6	7518.81	59.01	1.04
-16.78	31.5	404.4	7522.52	58.99	0.80
-16.85	21.7	403.7	7535.53	59.06	0.55
-16.81	18.0	402.2	7563.47	59.47	0.46
-16.75	17.0	401.6	7574.67	59.69	0.43
-16.90	16.5	400.5	7595.26	59.75	0.42
-16.89	16.3	399.5	7614.02	60.01	0.41
-17.15	16.2	398.7	7629.05	59.86	0.40
-17.35	16.2	397.9	7644.10	59.79	0.40
-17.43	16.2	397.1	7659.17	59.88	0.39

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-17.64	16.1	396.6	7668.60	59.72	0.39
-17.73	16.2	395.5	7689.37	59.87	0.39
-18.01	16.3	394.1	7715.88	59.84	0.38
-18.19	16.3	392.7	7742.45	59.95	0.38
-18.39	16.4	391.7	7761.48	59.93	0.37
-18.64	16.6	390.1	7791.99	59.99	0.37
-18.77	16.8	389.6	7801.55	59.94	0.37
-18.97	16.8	388.1	7830.27	60.05	0.37
-19.15	16.7	386.6	7859.08	60.18	0.36
-19.27	16.7	385.2	7886.05	60.37	0.36
-19.32	16.8	385.1	7887.98	60.33	0.36
-19.55	17.1	384.2	7905.36	60.25	0.36
-19.94	17.9	383.0	7928.57	60.04	0.36
-19.84	19.6	382.3	7942.13	60.34	0.40
-19.67	20.6	381.8	7951.84	60.69	0.43
-19.86	21.8	381.0	7967.41	60.64	0.45
-20.08	22.9	379.2	8002.51	60.80	0.47
-19.54	23.4	378.7	8012.30	61.64	0.50
-20.71	23.3	378.5	8016.21	60.15	0.45
-20.76	23.1	377.9	8027.94	60.23	0.44
-20.65	22.2	376.4	8057.34	60.76	0.43
-20.70	21.3	375.8	8069.13	60.84	0.41
-20.95	19.9	374.6	8092.76	60.82	0.38
-20.98	19.0	374.3	8098.67	60.85	0.36
-20.90	20.3	373.2	8120.41	61.24	0.39
-20.97	22.0	372.9	8126.34	61.23	0.42
-21.15	23.1	372.4	8136.25	61.12	0.44
-21.26	24.2	371.9	8146.16	61.10	0.45
-21.43	26.9	369.9	8185.92	61.39	0.50
-21.41	28.7	369.8	8187.91	61.44	0.53
-22.03	30.3	369.6	8191.89	60.67	0.53
-21.92	32.4	369.0	8203.84	60.97	0.58
-21.99	32.3	368.6	8211.82	60.98	0.57
-21.99	32.6	367.3	8237.80	61.32	0.58
-22.19	33.4	366.8	8247.82	61.18	0.58
-22.10	34.0	365.3	8277.94	61.69	0.60
-22.25	38.3	364.6	8292.03	61.68	0.67
-22.45	30.7	363.3	8318.27	61.75	0.53
-22.72	23.0	362.8	8328.37	61.52	0.39
-22.49	22.9	362.1	8342.54	62.02	0.39
-22.57	35.6	361.0	8364.87	62.20	0.61
-22.59	37.0	360.1	8383.18	62.41	0.64
-22.66	36.9	359.6	8393.37	62.45	0.63
-22.82	34.3	359.1	8403.58	62.37	0.58

CSI Profile: STA2RS03

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-22.80	27.7	357.9	8428.11	62.72	0.47
-22.88	25.1	356.4	8458.89	63.02	0.42
-23.03	24.4	356.3	8460.95	62.84	0.41
-23.15	24.5	355.1	8485.65	63.01	0.41
-23.20	24.6	354.8	8491.84	63.02	0.41
-23.42	23.9	353.9	8510.42	62.97	0.39
-23.49	22.8	353.4	8520.75	63.01	0.37
-23.52	22.3	352.5	8539.39	63.21	0.36
-23.65	21.8	351.7	8555.99	63.26	0.35
-23.81	21.5	351.3	8564.30	63.15	0.34
-23.99	21.3	351.0	8570.54	62.99	0.33
-24.07	21.2	350.0	8591.35	63.16	0.33
-24.08	21.3	349.2	8608.03	63.36	0.33
-24.16	21.4	348.7	8618.48	63.39	0.33
-24.57	26.5	347.4	8645.69	63.20	0.39
-24.61	26.8	347.1	8651.97	63.23	0.40
-24.68	26.7	345.6	8683.49	63.55	0.40
-24.71	24.9	345.5	8685.59	63.54	0.37
-24.77	23.8	344.8	8700.34	63.65	0.35
-25.00	23.3	344.0	8717.23	63.56	0.34
-25.24	22.5	343.5	8727.79	63.38	0.32
-25.26	22.1	342.9	8740.48	63.52	0.31
-25.51	21.9	342.5	8748.94	63.29	0.30
-25.67	25.3	340.9	8782.88	63.52	0.35
-25.76	27.0	340.4	8793.52	63.54	0.37
-25.82	41.7	339.3	8816.96	63.77	0.57
-25.73	46.2	338.6	8831.92	64.09	0.64
-25.88	50.2	337.3	8859.78	64.26	0.68
-26.13	51.0	336.9	8868.37	64.03	0.68
-26.22	51.5	336.3	8881.26	64.08	0.68
-26.31	51.7	335.4	8900.64	64.22	0.68
-26.46	52.2	334.6	8917.89	64.24	0.68
-26.60	52.0	334.2	8926.53	64.17	0.67
-26.67	48.4	333.5	8941.67	64.27	0.62
-26.73	43.0	332.6	8961.17	64.45	0.55
-26.81	37.3	332.2	8969.85	64.46	0.47
-26.94	34.2	331.8	8978.54	64.40	0.43
-26.98	31.5	330.7	9002.48	64.66	0.40
-27.24	28.7	329.7	9024.29	64.60	0.35
-27.34	28.2	329.0	9039.59	64.67	0.34
-27.61	27.0	328.2	9057.10	64.53	0.32
-27.70	25.8	327.6	9070.25	64.58	0.31
-27.79	24.4	327.1	9081.23	64.61	0.29
-27.85	23.5	326.7	9090.02	64.64	0.28

**CSI Profile: STA2RS03**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-28.12	22.8	325.4	9118.64	64.66	0.26
-28.43	22.5	323.9	9151.76	64.68	0.25
-28.55	23.0	322.4	9185.01	64.96	0.26
-28.77	23.1	322.3	9187.23	64.68	0.25
-28.85	23.2	321.6	9202.78	64.78	0.25
-28.90	23.3	320.4	9229.52	65.08	0.25
-29.02	23.6	319.9	9240.68	65.06	0.25
-29.21	24.2	319.7	9245.15	64.86	0.25
-29.20	25.0	318.8	9265.28	65.14	0.26
-29.41	25.6	318.1	9280.98	65.07	0.27
-29.57	26.2	317.6	9292.20	65.00	0.27
-29.74	26.8	317.0	9305.68	64.94	0.27
-30.18	27.0	316.3	9321.42	64.54	0.26
-30.37	27.3	315.7	9334.92	64.46	0.26
-30.40	27.6	314.7	9357.47	64.73	0.26
-30.57	30.5	313.6	9382.34	64.83	0.29
-30.50	33.2	313.3	9389.14	65.02	0.32
-30.60	34.8	311.2	9436.91	65.53	0.33
-31.01	41.8	310.9	9443.75	65.05	0.38



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring  
PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAR2RS04  
Radiosonde / Tethersonde \_\_\_\_\_  
Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_  
Date 8/23/94 Ob Time 1854 CDT  
Site Chandeleur Islander, Breton Sound, LA  
Observer Blanchard

Barometric Pressure:	<u>1020.6</u>	mBars
Dry-Bulb Temperature:	<u>28.2</u>	degrees C
Wet-Bulb Temperature:	<u>24</u>	degrees C
Relative Humidity:	<u>71%</u>	percent
Wind Speed:	<u>0-5 est</u>	<del>knots</del> mph m/s
Wind Direction:	<u>ESE est</u>	degrees <del>M</del> T
Sonde Battery Voltage:	<u>8.82</u>	VDC
Actual Time of Launch:	<u>1902 CDT</u>	

Comments: (Cloud cover, type, flight description, etc.)

BKN Stratocumulus

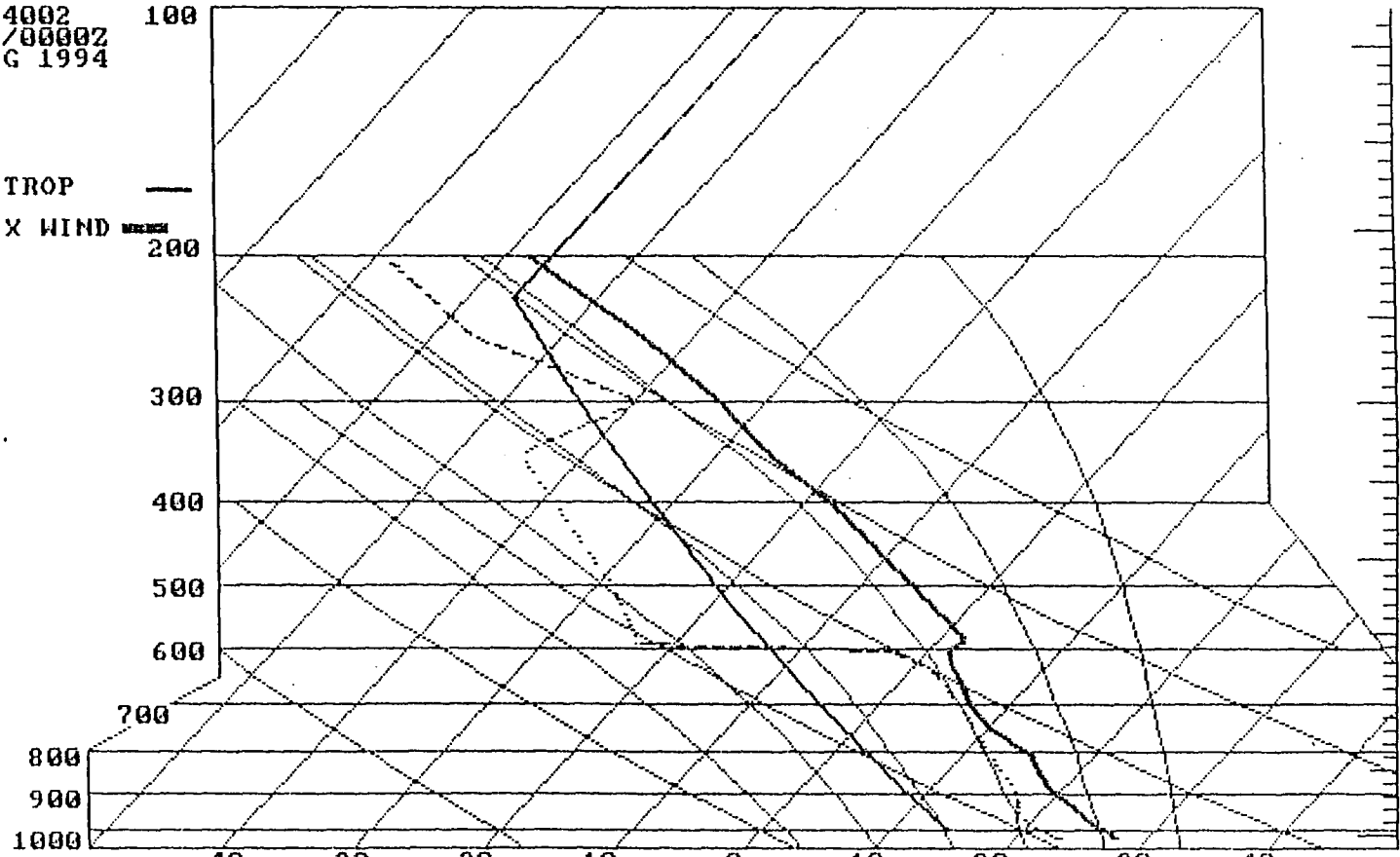
H.V.U. 10676 R.D.U. 77.77

Pressure via A.I.R. Handheld ~ 1014.3 mb,  
via aneroid ~ 1020.6 mb.

A.I.R. unit reads low and previous  
measurements need to be adjusted.  
Additional Comments on Back

94002  
24/0000Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...  
USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-70

Station Number: 94002

DTG of RAOB: 24/0000Z AUG 1994

Indices		Sfc Data: 1021mb T= 27.4°C Td= 23.2°C		Heights	
SSI	= 0.7		-211ft	100mb	= MISC
RO	= -11.6			150mb	= MISC
K Index	= 36.2	Adiabatic Processes		200mb	= 12420M
Lifted Index	= -0.7	Wet Bulb Zero	= 600mb -- 13444ft	250mb	= 10970M
Sweat Index	= Missing	LCL	= 961mb 22.2°C 1471ft	300mb	= 9720M
Total-Totals	= 43.3	LFC	= 900mb 19.8°C 3241ft	400mb	= 7640M
U Totals	= 23.1	CCL	= 931mb 21.7°C 2325ft	500mb	= 5930M
X Totals	= 20.2	Tc	= -- 29.5°C --	700mb	= 3220M
Fog SI	= Missing	CCL E.L.	= None	850mb	= 1598M
Fog Threat	= 1.5	LFC E.L.	= None	1000mb	= 183M
Fog Point	= 19.8°C	850mb WBPT	= -- 21.2°C --		

Inversion Layers	Type	Break	Freezing Levels
603- 588mb 13669-14298ft	Subs	48.7°C	562mb 15424ft

Thickness	
500-300mb	= 3790M
700-500mb	= 2710M
850-500mb	= 4332M
850-700mb	= 1622M
1000-500mb	= 5747M
1000-700mb	= 3037M
1000-850mb	= 1415M

Max Wind  
None Reported

Base	Icing Layers	
	Top	Intensity
	None	

Base	Turbulence Layers	
	Top	Shear
	None	

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-71

**CSI Profile: STA2RS04**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.45	77.9	1020.7	3.00	25.69	17.87
27.54	76.4	1020.5	4.74	25.80	17.61
27.33	74.0	1018.7	20.44	25.74	16.86
27.16	73.1	1016.5	39.64	25.76	16.52
27.01	73.3	1014.2	59.74	25.80	16.45
26.86	73.2	1012.5	74.62	25.80	16.31
26.83	72.3	1010.9	88.64	25.90	16.10
26.71	72.5	1009.4	101.81	25.91	16.05
26.62	72.5	1007.8	115.86	25.95	15.99
26.56	72.9	1006.3	129.06	26.02	16.05
26.57	71.7	1004.6	144.03	26.18	15.82
26.52	70.2	1003.3	155.50	26.24	15.45
26.44	70.0	1001.7	169.63	26.29	15.36
26.31	72.0	1000.2	182.89	26.29	15.71
26.17	72.7	998.6	197.05	26.29	15.76
26.08	72.3	997.2	209.46	26.32	15.60
26.07	71.0	995.8	221.88	26.43	15.33
25.97	71.1	994.1	236.98	26.48	15.29
25.84	71.6	992.5	251.21	26.48	15.30
25.72	72.0	991.3	261.89	26.47	15.30
25.59	72.4	989.6	277.04	26.48	15.29
25.48	72.3	988.1	290.42	26.50	15.19
25.36	72.0	986.5	304.72	26.52	15.04
25.25	72.5	985.1	317.24	26.53	15.07
25.11	74.0	983.4	332.46	26.54	15.28
24.96	74.7	981.9	345.90	26.52	15.31
24.84	75.5	980.4	359.36	26.53	15.39
24.72	76.2	979.0	371.94	26.53	15.45
24.59	77.0	977.3	387.23	26.55	15.52
24.51	75.8	976.0	398.94	26.59	15.22
24.45	75.2	974.5	412.46	26.66	15.06
24.41	73.6	973.0	426.00	26.75	14.72
24.32	73.4	971.6	438.65	26.78	14.62
24.22	73.2	970.2	451.31	26.80	14.51
24.15	73.3	968.7	464.90	26.87	14.49
24.03	73.7	967.4	476.68	26.86	14.49
23.94	73.9	966.0	489.39	26.89	14.47
23.81	74.1	964.4	503.93	26.90	14.42
23.71	74.3	963.0	516.66	26.93	14.39
23.59	74.7	961.4	531.23	26.95	14.39
23.48	75.1	960.0	544.00	26.96	14.39
23.42	75.1	958.6	556.78	27.03	14.36
23.35	74.7	957.1	570.49	27.09	14.24
23.25	74.7	955.7	583.30	27.12	14.18



CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
23.14	74.8	954.2	597.04	27.14	14.12
23.03	74.9	952.8	609.88	27.15	14.07
22.91	75.3	951.3	623.65	27.17	14.06
22.80	75.3	949.8	637.44	27.19	13.99
22.72	75.3	948.5	649.40	27.23	13.94
22.61	75.4	946.9	664.14	27.26	13.89
22.53	75.4	945.5	677.06	27.31	13.84
22.45	75.5	944.2	689.06	27.34	13.81
22.41	74.9	942.7	702.93	27.44	13.68
22.43	74.2	941.4	714.97	27.58	13.59
22.38	74.2	940.0	727.95	27.66	13.57
22.30	74.1	938.7	740.02	27.69	13.50
22.20	74.3	937.2	753.96	27.73	13.48
22.10	74.3	935.8	766.99	27.76	13.41
21.99	74.5	934.5	779.10	27.76	13.38
21.87	75.0	933.1	792.15	27.77	13.39
21.76	76.5	931.5	807.09	27.81	13.59
21.61	78.5	930.3	818.31	27.76	13.85
21.47	81.7	928.8	832.34	27.76	14.32
21.29	87.9	927.3	846.40	27.72	15.29
21.17	88.6	925.8	860.48	27.73	15.32
21.09	88.3	924.5	872.70	27.77	15.21
21.02	88.1	923.0	886.81	27.84	15.14
21.00	86.9	921.7	899.05	27.94	14.93
20.91	86.7	920.0	915.09	28.01	14.84
20.85	86.6	918.6	928.31	28.08	14.79
20.76	86.1	917.2	941.55	28.12	14.64
20.70	84.9	915.9	953.86	28.18	14.40
20.61	83.1	914.4	968.08	28.23	14.03
20.60	81.6	912.9	982.31	28.36	13.78
20.49	81.6	911.5	995.61	28.38	13.71
20.38	81.7	909.9	1010.84	28.41	13.66
20.29	81.9	908.6	1023.22	28.45	13.63
20.20	82.0	907.3	1035.62	28.48	13.59
20.14	81.3	906.0	1048.03	28.54	13.44
20.07	81.1	904.6	1061.41	28.60	13.37
19.96	81.9	903.3	1073.85	28.61	13.43
19.85	82.2	902.0	1086.31	28.62	13.41
19.77	82.4	900.7	1098.77	28.66	13.39
19.65	82.7	899.2	1113.18	28.68	13.36
19.55	82.8	897.9	1125.67	28.71	13.32
19.44	83.2	896.5	1139.15	28.73	13.31
19.37	83.3	895.2	1151.67	28.78	13.29
19.31	83.5	893.7	1166.15	28.86	13.29

**CSI Profile: STA2RS04**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
19.22	83.4	892.5	1177.74	28.89	13.22
19.11	84.1	891.1	1191.28	28.91	13.26
19.04	84.9	889.9	1202.90	28.95	13.35
18.96	85.2	888.7	1214.53	28.99	13.35
18.87	85.3	887.2	1229.09	29.04	13.31
18.79	84.7	885.9	1241.72	29.08	13.17
18.74	84.6	884.7	1253.40	29.15	13.13
18.68	84.4	883.2	1268.01	29.23	13.07
18.61	84.7	882.0	1279.71	29.28	13.07
18.51	85.8	880.9	1290.45	29.28	13.18
18.41	86.2	879.5	1304.14	29.32	13.18
18.36	86.1	878.2	1316.86	29.39	13.14
18.33	85.9	877.3	1325.68	29.45	13.10
18.29	86.1	875.8	1340.39	29.56	13.12
18.21	86.0	874.4	1354.15	29.61	13.06
18.13	85.8	873.3	1364.96	29.64	12.98
18.08	83.9	872.2	1375.79	29.69	12.66
18.17	82.3	871.2	1385.65	29.89	12.50
18.28	81.4	869.7	1400.46	30.15	12.47
18.23	81.8	868.6	1411.33	30.21	12.51
18.15	83.4	867.4	1423.21	30.25	12.71
18.09	83.2	866.3	1434.11	30.29	12.65
17.99	83.4	864.9	1448.00	30.33	12.62
17.92	82.8	863.7	1459.92	30.38	12.49
17.88	82.6	862.5	1471.86	30.46	12.44
17.80	82.2	861.3	1483.81	30.49	12.33
17.77	80.9	860.3	1493.77	30.56	12.13
17.74	79.2	858.8	1508.74	30.68	11.86
17.67	79.3	857.6	1520.73	30.73	11.84
17.58	79.3	856.4	1532.73	30.76	11.79
17.49	79.9	855.2	1544.75	30.79	11.83
17.35	81.2	853.8	1558.78	30.78	11.94
17.23	81.5	852.6	1570.83	30.78	11.91
17.11	82.3	851.5	1581.88	30.77	11.95
16.98	82.9	849.9	1597.97	30.79	11.96
16.86	84.1	848.7	1610.05	30.79	12.06
17.00	79.5	847.4	1623.16	31.07	11.51
17.12	77.1	846.0	1637.30	31.34	11.26
17.15	76.3	844.7	1650.46	31.51	11.18
17.15	75.8	843.4	1663.63	31.64	11.13
17.11	75.6	842.1	1676.83	31.73	11.09
17.04	75.5	840.9	1689.03	31.78	11.04
16.95	75.4	839.7	1701.23	31.81	10.97
16.87	75.4	838.5	1713.46	31.85	10.93

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.77	75.5	837.1	1727.73	31.89	10.90
16.65	75.6	835.8	1741.01	31.90	10.84
16.56	75.6	834.4	1755.32	31.96	10.80
16.48	75.4	833.2	1767.60	32.00	10.73
16.40	75.5	832.0	1779.90	32.04	10.71
16.31	75.5	830.7	1793.24	32.08	10.66
16.19	75.7	829.4	1806.59	32.09	10.62
16.07	75.9	828.2	1818.93	32.09	10.58
15.94	76.1	826.9	1832.31	32.09	10.54
15.87	76.3	825.5	1846.74	32.16	10.54
15.78	76.6	824.4	1858.09	32.19	10.53
15.66	76.9	822.9	1873.58	32.22	10.51
15.53	77.2	821.7	1886.00	32.21	10.48
15.42	77.9	820.3	1900.49	32.24	10.52
15.31	78.7	819.1	1912.94	32.25	10.57
15.25	81.5	817.9	1925.39	32.32	10.93
15.18	83.5	816.3	1942.03	32.41	11.17
15.04	84.1	814.9	1956.62	32.41	11.17
14.93	84.9	813.5	1971.22	32.45	11.22
14.81	85.7	812.4	1982.70	32.44	11.25
14.70	86.0	811.1	1996.29	32.46	11.23
14.63	85.7	810.0	2007.80	32.51	11.15
14.58	85.5	808.6	2022.47	32.60	11.11
14.47	85.6	807.3	2036.11	32.63	11.06
14.38	85.6	806.1	2048.71	32.66	11.01
14.46	84.0	804.9	2061.34	32.88	10.87
14.49	83.3	803.7	2073.98	33.04	10.82
14.62	81.1	802.4	2087.70	33.32	10.64
14.60	81.0	801.3	2099.33	33.42	10.62
14.54	81.3	800.2	2110.97	33.48	10.64
14.46	81.4	798.9	2124.75	33.53	10.61
14.38	82.5	797.8	2136.42	33.57	10.72
14.31	83.4	796.6	2149.17	33.63	10.80
14.22	83.3	795.5	2160.88	33.65	10.74
14.11	83.2	794.5	2171.52	33.65	10.66
14.02	83.5	793.3	2184.31	33.68	10.66
13.90	83.8	792.2	2196.05	33.68	10.63
13.80	84.2	791.0	2208.87	33.70	10.62
13.69	84.5	789.8	2221.70	33.72	10.60
13.58	85.2	788.7	2233.47	33.72	10.63
13.46	85.5	787.7	2244.19	33.70	10.59
13.37	85.8	786.6	2255.98	33.73	10.58
13.26	87.8	785.3	2269.94	33.76	10.77
13.12	88.7	784.1	2282.84	33.74	10.80

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
12.99	89.5	782.9	2295.76	33.74	10.83
12.89	90.1	781.8	2307.61	33.75	10.84
12.79	90.4	780.3	2323.79	33.81	10.83
12.67	90.9	779.2	2335.67	33.81	10.82
12.58	91.4	777.9	2349.73	33.86	10.83
12.46	91.8	776.8	2361.64	33.85	10.81
12.35	92.0	775.6	2374.65	33.87	10.77
12.23	92.4	774.2	2389.84	33.90	10.75
12.09	92.7	772.9	2403.97	33.90	10.70
11.98	93.0	771.6	2418.11	33.93	10.68
11.83	93.6	770.4	2431.18	33.90	10.66
11.68	93.7	768.9	2447.54	33.91	10.58
11.58	93.7	767.6	2461.74	33.95	10.53
11.48	93.6	766.2	2477.05	34.01	10.47
11.38	93.5	764.9	2491.28	34.05	10.40
11.25	93.4	763.6	2505.53	34.06	10.32
11.16	93.3	762.3	2519.80	34.11	10.26
11.03	93.0	760.9	2535.19	34.13	10.16
10.89	92.9	759.2	2553.91	34.17	10.08
10.73	93.3	757.6	2571.55	34.19	10.03
10.56	93.5	756.3	2585.90	34.15	9.96
10.45	93.0	755.2	2598.06	34.16	9.84
10.38	92.9	753.8	2613.55	34.25	9.81
10.28	92.7	752.6	2626.85	34.28	9.73
10.17	92.7	751.3	2641.28	34.31	9.68
10.08	93.3	749.9	2656.83	34.38	9.70
9.96	93.8	748.7	2670.19	34.39	9.69
9.87	94.6	747.2	2686.90	34.47	9.73
9.86	94.3	745.9	2701.41	34.61	9.71
9.91	94.0	744.6	2715.95	34.82	9.73
9.82	93.9	743.3	2730.51	34.88	9.68
9.78	93.6	742.1	2743.97	34.97	9.64
9.72	93.4	740.8	2758.57	35.06	9.59
9.63	93.3	739.6	2772.07	35.11	9.54
9.56	93.4	738.0	2790.10	35.22	9.53
9.48	93.4	736.8	2803.64	35.28	9.49
9.43	93.4	735.4	2819.46	35.39	9.48
9.35	93.6	734.3	2831.92	35.44	9.46
9.25	93.7	733.1	2845.51	35.47	9.42
9.16	93.6	731.7	2861.40	35.54	9.37
9.10	93.6	730.6	2873.90	35.61	9.35
9.03	93.5	729.2	2889.84	35.70	9.31
8.97	93.6	727.9	2904.66	35.80	9.30
8.85	93.7	726.6	2919.50	35.82	9.25

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
8.74	93.7	725.5	2932.07	35.83	9.19
8.65	93.7	724.1	2948.10	35.91	9.16
8.57	93.6	722.9	2961.85	35.97	9.11
8.47	93.7	721.5	2977.92	36.03	9.08
8.35	93.7	720.4	2990.57	36.03	9.01
8.21	93.9	719.0	3006.68	36.05	8.97
8.09	93.9	717.7	3021.66	36.08	8.91
7.96	93.9	716.7	3033.20	36.06	8.84
7.84	93.9	715.2	3050.53	36.11	8.79
7.73	93.9	714.5	3058.62	36.08	8.73
7.63	93.9	713.3	3072.51	36.11	8.68
7.54	93.8	711.7	3091.06	36.21	8.64
7.44	93.8	710.1	3109.65	36.30	8.60
7.36	93.8	708.9	3123.61	36.36	8.57
7.35	93.8	708.1	3132.93	36.45	8.57
7.27	93.6	706.5	3151.60	36.57	8.52
7.17	93.6	705.5	3163.28	36.58	8.48
7.07	93.5	704.2	3178.49	36.63	8.42
6.97	93.5	703.0	3192.55	36.67	8.38
6.88	93.4	701.9	3205.45	36.71	8.33
6.83	93.4	700.6	3220.72	36.82	8.32
6.72	93.3	699.3	3236.02	36.86	8.26
6.70	93.2	698.2	3248.98	36.98	8.26
6.67	93.1	697.1	3261.96	37.09	8.24
6.61	92.9	695.9	3276.14	37.18	8.20
6.51	92.9	694.5	3292.71	37.24	8.16
6.41	92.8	693.6	3303.37	37.25	8.11
6.33	92.7	692.1	3321.17	37.35	8.07
6.26	92.5	690.9	3335.44	37.43	8.03
6.14	92.4	689.6	3350.91	37.46	7.97
6.01	92.3	687.8	3372.38	37.55	7.91
5.91	92.3	686.5	3387.91	37.61	7.87
5.75	92.2	684.9	3407.05	37.63	7.79
5.67	92.1	683.8	3420.24	37.69	7.75
5.61	92.0	683.0	3429.83	37.73	7.72
5.59	91.9	681.8	3444.25	37.86	7.71
5.45	91.8	680.7	3457.48	37.85	7.64
5.39	91.8	679.6	3470.73	37.92	7.62
5.34	91.8	678.8	3480.38	37.97	7.60
5.30	91.7	677.2	3499.70	38.14	7.59
5.27	91.7	676.3	3510.59	38.22	7.59
5.22	91.6	675.2	3523.92	38.31	7.56
5.17	91.6	674.2	3536.05	38.39	7.55
5.14	91.6	673.0	3550.63	38.51	7.55

**CSI Profile: STA2RS04**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.01	91.5	671.9	3564.01	38.51	7.48
4.95	91.5	670.5	3581.07	38.63	7.47
4.86	91.5	669.5	3593.27	38.66	7.43
4.79	91.5	668.4	3606.71	38.73	7.41
4.71	91.4	667.1	3622.62	38.82	7.37
4.65	91.4	666.1	3634.87	38.88	7.35
4.59	91.4	665.0	3648.37	38.96	7.33
4.42	91.4	663.9	3661.88	38.92	7.26
4.32	91.4	663.1	3671.72	38.91	7.21
4.28	91.2	661.8	3687.73	39.04	7.19
4.27	90.9	660.9	3698.83	39.16	7.17
4.30	90.8	659.7	3713.65	39.35	7.19
4.29	90.6	658.3	3730.98	39.53	7.19
4.28	90.5	657.2	3744.62	39.67	7.19
4.22	90.4	655.9	3760.77	39.78	7.16
4.17	90.4	654.8	3774.45	39.87	7.15
4.11	90.3	653.6	3789.41	39.97	7.12
4.10	90.4	652.5	3803.14	40.11	7.14
4.03	90.5	650.9	3823.14	40.25	7.13
3.93	90.5	650.2	3831.91	40.23	7.09
3.95	90.4	649.0	3846.96	40.42	7.10
3.94	90.3	647.8	3862.03	40.57	7.10
3.90	90.2	646.5	3878.40	40.71	7.09
3.82	90.0	645.1	3896.05	40.81	7.05
3.78	89.9	644.4	3904.89	40.87	7.03
3.71	90.0	642.9	3923.86	41.00	7.02
3.64	90.0	642.1	3933.99	41.03	6.99
3.58	89.9	640.6	3953.02	41.17	6.97
3.49	90.1	639.7	3964.45	41.19	6.95
3.39	90.0	638.4	3980.99	41.26	6.91
3.36	89.5	637.3	3995.01	41.38	6.86
3.43	87.4	635.9	4012.88	41.66	6.75
3.43	86.4	635.0	4024.40	41.79	6.68
3.35	86.3	633.9	4038.49	41.85	6.65
3.21	87.6	633.1	4048.75	41.81	6.69
3.06	89.1	631.9	4064.16	41.81	6.75
2.94	89.3	630.8	4078.30	41.83	6.72
2.82	89.3	629.7	4092.46	41.85	6.67
2.71	89.1	628.6	4106.63	41.88	6.61
2.68	88.8	627.4	4122.12	42.02	6.59
2.58	88.4	626.3	4136.35	42.06	6.52
2.48	88.1	625.3	4149.29	42.09	6.47
2.41	87.2	624.3	4162.25	42.16	6.38
2.31	87.0	623.0	4179.13	42.23	6.33

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
2.19	87.4	621.5	4198.64	42.31	6.32
2.24	86.4	621.2	4202.54	42.41	6.27
2.35	83.5	620.0	4218.19	42.71	6.12
2.43	80.6	618.5	4237.80	43.02	5.95
2.35	79.9	617.4	4252.21	43.09	5.88
2.25	79.5	616.4	4265.33	43.12	5.82
2.21	79.5	615.2	4281.09	43.25	5.81
2.34	78.4	614.2	4294.25	43.55	5.79
2.30	76.9	613.1	4308.76	43.67	5.68
2.22	76.6	612.8	4312.72	43.62	5.62
2.22	75.9	611.5	4329.89	43.81	5.58
2.01	75.3	609.0	4363.01	43.94	5.48
1.92	75.4	608.1	4374.96	43.97	5.46
1.62	75.2	605.9	4404.22	43.95	5.35
1.57	73.8	604.6	4421.55	44.09	5.24
1.51	72.3	604.3	4425.56	44.07	5.11
1.40	71.8	602.7	4446.93	44.18	5.05
1.43	63.0	601.6	4461.66	44.38	4.44
1.50	55.0	600.6	4475.06	44.61	3.90
1.53	50.1	599.4	4491.18	44.83	3.57
1.47	47.9	598.5	4503.29	44.90	3.40
1.48	43.2	597.2	4520.80	45.11	3.07
1.51	38.9	596.6	4528.90	45.23	2.78
1.56	33.6	595.7	4541.05	45.43	2.41
1.54	30.0	594.5	4557.29	45.59	2.15
1.50	26.6	593.8	4566.77	45.65	1.90
1.46	24.0	592.7	4581.70	45.77	1.71
1.45	18.3	591.8	4593.92	45.90	1.31
1.52	16.3	590.9	4606.17	46.12	1.17
1.59	14.7	590.0	4618.43	46.34	1.06
1.69	13.9	589.0	4632.09	46.61	1.01
1.71	13.7	588.4	4640.29	46.73	1.00
1.67	13.7	587.4	4653.98	46.84	1.00
1.69	13.5	586.4	4667.70	47.02	0.99
1.81	13.5	585.4	4681.44	47.31	1.00
1.69	13.5	584.7	4691.08	47.28	0.99
1.64	13.6	583.4	4708.99	47.43	1.00
1.67	13.5	582.7	4718.66	47.57	0.99
1.62	13.5	581.9	4729.71	47.64	0.99
1.52	13.5	580.4	4750.48	47.76	0.99
1.47	13.5	580.0	4756.03	47.77	0.98
1.42	13.5	579.5	4762.96	47.79	0.98
1.38	13.5	578.4	4778.24	47.91	0.98
1.32	13.5	577.5	4790.76	47.99	0.98

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
1.27	13.5	576.6	4803.30	48.07	0.98
1.20	13.6	575.2	4822.84	48.21	0.98
1.17	13.6	574.3	4835.42	48.32	0.98
1.09	13.6	574.1	4838.22	48.26	0.98
1.03	13.6	572.6	4859.23	48.43	0.97
0.95	13.6	572.0	4867.65	48.43	0.97
0.86	13.6	571.4	4876.07	48.42	0.96
0.80	13.6	570.4	4890.13	48.52	0.96
0.77	13.6	569.4	4904.21	48.64	0.96
0.73	13.6	568.5	4916.90	48.74	0.96
0.67	13.7	562.8	4997.72	49.60	0.97
0.20	13.7	562.1	5007.69	49.16	0.94
0.09	13.7	561.2	5020.52	49.18	0.93
-0.02	13.7	560.2	5034.79	49.21	0.93
-0.24	13.6	559.3	5047.65	49.10	0.91
-0.35	13.7	557.1	5079.14	49.33	0.91
-0.42	13.6	556.8	5083.45	49.30	0.90
-0.61	13.6	554.6	5115.06	49.44	0.89
-0.72	13.7	553.8	5126.58	49.44	0.89
-0.82	13.6	552.8	5141.00	49.49	0.88
-0.94	13.7	551.9	5153.99	49.50	0.88
-1.05	13.7	550.9	5168.45	49.54	0.88
-1.15	13.6	550.1	5180.03	49.55	0.86
-1.28	13.6	549.4	5190.17	49.52	0.86
-1.31	13.6	548.5	5203.22	49.63	0.86
-1.36	13.6	547.4	5219.20	49.76	0.86
-1.44	13.6	546.7	5229.38	49.78	0.85
-1.53	13.6	545.8	5242.49	49.83	0.85
-1.56	13.7	544.5	5261.46	50.01	0.85
-1.61	13.6	544.0	5268.77	50.04	0.85
-1.68	13.6	543.0	5283.40	50.12	0.84
-1.77	13.6	541.9	5299.52	50.20	0.84
-1.83	13.6	541.1	5311.26	50.27	0.84
-1.80	13.6	540.3	5323.02	50.44	0.84
-1.82	13.6	540.1	5325.96	50.45	0.84
-1.98	13.6	537.2	5368.73	50.76	0.83
-2.05	13.7	537.0	5371.69	50.71	0.83
-2.12	13.7	535.8	5389.45	50.83	0.83
-2.20	13.7	534.3	5411.70	51.00	0.83
-2.41	13.7	533.5	5423.58	50.89	0.82
-2.52	13.7	532.4	5439.94	50.94	0.81
-2.65	13.7	531.7	5450.37	50.91	0.81
-2.73	13.7	531.2	5457.82	50.90	0.80
-2.87	13.7	529.9	5477.22	50.96	0.80



### CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-3.02	13.7	528.8	5493.66	50.97	0.79
-3.12	13.7	527.8	5508.64	51.03	0.78
-3.25	13.7	526.6	5526.63	51.08	0.78
-3.31	13.7	525.7	5540.15	51.17	0.78
-3.50	13.7	524.4	5559.71	51.17	0.77
-3.61	13.7	523.7	5570.26	51.16	0.76
-3.86	13.7	522.6	5586.85	51.06	0.75
-4.10	13.7	520.0	5626.16	51.23	0.74
-4.20	13.7	518.9	5642.84	51.31	0.74
-4.30	13.7	518.1	5654.99	51.33	0.73
-4.37	13.7	517.1	5670.20	51.42	0.73
-4.49	13.7	516.5	5679.34	51.39	0.72
-4.59	13.8	515.2	5699.16	51.50	0.72
-4.69	13.8	514.0	5717.50	51.60	0.72
-4.84	13.8	513.5	5725.15	51.51	0.71
-4.95	13.8	512.4	5741.99	51.57	0.71
-5.06	13.8	511.4	5757.33	51.62	0.70
-5.17	13.8	510.5	5771.16	51.65	0.70
-5.29	13.8	509.6	5785.00	51.67	0.69
-5.37	13.8	508.7	5798.87	51.74	0.69
-5.37	13.8	508.2	5806.58	51.83	0.69
-5.42	13.7	506.8	5828.21	52.02	0.69
-5.51	13.7	505.8	5843.69	52.10	0.68
-5.60	13.7	504.9	5857.65	52.15	0.68
-5.70	13.7	504.0	5871.63	52.20	0.68
-5.81	13.7	503.1	5885.62	52.23	0.67
-5.90	13.8	502.1	5901.19	52.31	0.67
-5.97	13.7	501.1	5916.79	52.41	0.67
-6.10	13.7	500.1	5932.42	52.43	0.66
-6.17	13.7	499.4	5943.37	52.48	0.66
-6.24	13.7	498.3	5960.61	52.60	0.66
-6.34	13.7	497.4	5974.74	52.64	0.65
-6.40	13.7	496.4	5990.46	52.76	0.65
-6.53	13.7	495.6	6003.05	52.75	0.64
-6.64	13.7	495.0	6012.51	52.73	0.64
-6.75	13.7	493.5	6036.19	52.88	0.64
-6.87	13.7	492.7	6048.84	52.88	0.63
-6.99	13.7	491.8	6063.10	52.91	0.63
-7.10	13.7	491.0	6075.78	52.92	0.62
-7.22	13.7	490.1	6090.07	52.95	0.62
-7.34	13.8	489.2	6104.38	52.97	0.62
-7.46	13.8	488.1	6121.90	53.03	0.61
-7.47	13.8	487.3	6134.66	53.17	0.61
-7.57	13.8	486.4	6149.04	53.22	0.61

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.69	13.8	485.3	6166.65	53.29	0.61
-7.86	13.8	484.4	6181.07	53.25	0.60
-7.99	13.8	483.7	6192.30	53.23	0.59
-8.08	13.8	482.7	6208.37	53.31	0.59
-8.20	13.8	481.7	6224.46	53.35	0.59
-8.30	13.8	480.9	6237.36	53.39	0.58
-8.34	13.8	480.0	6251.88	53.51	0.58
-8.38	13.8	478.9	6269.67	53.68	0.58
-8.47	13.8	478.5	6276.15	53.64	0.58
-8.57	13.8	477.6	6290.74	53.70	0.58
-8.68	13.8	476.6	6306.97	53.76	0.57
-8.80	13.8	475.6	6323.24	53.81	0.57
-8.94	13.8	475.4	6326.49	53.67	0.56
-9.06	13.8	474.0	6349.30	53.80	0.56
-9.19	13.8	473.3	6360.73	53.78	0.55
-9.31	13.8	472.2	6378.71	53.84	0.55
-9.41	13.8	471.7	6386.89	53.82	0.55
-9.51	13.8	470.7	6403.28	53.89	0.54
-9.61	13.8	469.9	6416.41	53.93	0.54
-9.81	13.8	468.4	6441.07	53.98	0.53
-9.92	13.8	467.5	6455.90	54.02	0.53
-10.03	13.8	466.6	6470.75	54.07	0.52
-9.96	13.8	465.8	6483.97	54.31	0.53
-10.21	13.8	465.2	6493.90	54.12	0.52
-10.30	13.8	464.4	6507.15	54.17	0.52
-10.41	13.8	463.3	6525.40	54.26	0.51
-10.54	13.9	462.7	6535.36	54.22	0.51
-10.87	13.9	460.4	6573.66	54.27	0.50
-10.97	13.9	459.6	6587.01	54.31	0.50
-11.08	13.9	458.8	6600.38	54.34	0.49
-11.16	13.9	458.1	6612.10	54.38	0.49
-11.22	13.9	457.0	6630.54	54.53	0.49
-11.33	13.9	456.3	6642.29	54.54	0.49
-11.42	13.9	456.1	6645.65	54.46	0.48
-11.52	13.9	454.9	6665.84	54.59	0.48
-11.63	13.9	454.2	6677.63	54.59	0.48
-11.68	13.9	453.2	6694.51	54.74	0.48
-11.76	13.9	452.9	6699.58	54.70	0.47
-11.84	13.9	452.5	6706.34	54.68	0.47
-11.90	13.9	451.4	6724.96	54.83	0.47
-11.98	13.9	450.5	6740.23	54.92	0.47
-12.09	13.9	449.2	6762.32	55.05	0.47
-12.18	13.9	448.5	6774.24	55.09	0.46
-12.29	13.9	448.3	6777.65	54.99	0.46

**CSI Profile: STA2RS04**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-12.40	13.9	447.3	6794.70	55.06	0.46
-12.49	13.9	446.8	6803.24	55.05	0.45
-12.61	13.9	445.7	6822.05	55.13	0.45
-12.68	13.9	445.6	6823.76	55.07	0.45
-12.72	13.9	444.4	6844.32	55.27	0.45
-12.79	13.9	443.5	6859.78	55.37	0.45
-12.83	13.9	442.4	6878.71	55.55	0.45
-12.88	13.9	441.9	6887.33	55.60	0.44
-12.99	13.9	441.1	6901.13	55.63	0.44
-13.08	13.9	440.4	6913.23	55.66	0.44
-13.14	13.9	439.6	6927.07	55.76	0.44
-13.27	13.9	439.0	6937.47	55.72	0.43
-13.37	13.9	437.7	6960.03	55.88	0.43
-13.47	13.9	437.6	6961.77	55.77	0.43
-13.63	13.9	436.6	6979.16	55.78	0.42
-13.73	13.9	434.9	7008.80	56.02	0.42
-13.86	13.9	434.1	7022.78	56.03	0.42
-13.97	13.9	433.3	7036.78	56.07	0.41
-14.07	13.9	432.6	7049.05	56.09	0.41
-14.20	13.9	431.5	7068.35	56.16	0.41
-14.32	13.9	430.6	7084.18	56.21	0.40
-14.45	13.9	429.7	7100.03	56.24	0.40
-14.55	13.9	429.2	7108.85	56.22	0.40
-14.64	13.9	427.7	7135.35	56.44	0.40
-14.68	13.9	427.5	7138.89	56.43	0.40
-14.79	14.0	426.5	7156.61	56.51	0.40
-14.84	14.0	425.7	7170.81	56.62	0.40
-14.81	13.9	424.9	7185.04	56.84	0.39
-14.78	13.9	424.1	7199.30	57.06	0.40
-14.81	13.9	423.3	7213.58	57.20	0.40
-14.87	13.9	422.5	7227.89	57.30	0.39
-14.91	13.9	421.7	7242.22	57.43	0.39
-15.01	13.9	420.7	7260.17	57.52	0.39
-15.11	13.9	419.9	7274.55	57.58	0.39
-15.18	13.9	418.9	7292.56	57.71	0.39
-15.26	13.9	418.3	7303.38	57.74	0.39
-15.33	13.9	417.5	7317.84	57.84	0.38
-15.41	13.9	416.7	7332.31	57.91	0.38
-15.52	13.9	415.8	7348.63	57.98	0.38
-15.63	14.0	415.5	7354.07	57.90	0.38
-15.76	14.0	414.1	7379.51	58.06	0.38
-15.89	14.0	413.4	7392.26	58.05	0.37
-16.04	14.0	412.2	7414.15	58.13	0.37
-16.17	14.0	411.9	7419.63	58.03	0.37

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-16.34	14.0	410.9	7437.91	58.04	0.36
-16.40	14.0	410.1	7452.56	58.15	0.36
-16.55	14.0	409.3	7467.23	58.14	0.36
-16.71	14.0	408.5	7481.93	58.12	0.35
-16.86	14.0	407.5	7500.33	58.16	0.35
-16.97	14.0	407.0	7509.54	58.13	0.35
-17.10	14.0	406.2	7524.29	58.15	0.34
-17.24	14.0	405.4	7539.07	58.16	0.34
-17.35	14.0	404.6	7553.86	58.20	0.34
-17.47	14.0	403.8	7568.68	58.24	0.33
-17.59	14.0	403.2	7579.81	58.22	0.33
-17.72	14.1	402.2	7598.39	58.29	0.33
-17.86	14.1	401.4	7613.27	58.29	0.33
-17.99	14.1	400.6	7628.18	58.31	0.32
-18.13	14.1	399.9	7641.24	58.30	0.32
-18.22	14.1	399.1	7656.19	58.37	0.32
-18.38	14.1	398.6	7665.54	58.28	0.32
-18.52	14.1	397.6	7684.27	58.34	0.31
-18.65	14.1	396.8	7699.29	58.36	0.31
-18.77	14.1	396.2	7710.56	58.35	0.31
-18.92	14.1	395.5	7723.72	58.32	0.30
-19.07	14.1	394.6	7740.68	58.34	0.30
-19.18	14.1	393.9	7753.88	58.36	0.30
-19.29	14.2	393.2	7767.10	58.39	0.30
-19.44	14.2	392.5	7780.34	58.36	0.29
-19.55	14.2	391.6	7797.39	58.44	0.29
-19.67	14.2	391.1	7806.88	58.40	0.29
-19.79	14.2	390.7	7814.47	58.34	0.29
-19.91	14.2	389.4	7839.18	58.50	0.29
-20.02	14.2	388.8	7850.61	58.50	0.28
-20.15	14.2	388.1	7863.97	58.50	0.28
-20.21	14.2	387.2	7881.16	58.64	0.28
-20.37	14.2	386.5	7894.56	58.61	0.28
-20.52	14.2	385.9	7906.05	58.56	0.27
-20.64	14.2	385.1	7921.40	58.60	0.27
-20.76	14.2	384.3	7936.77	58.63	0.27
-20.89	14.2	383.6	7950.23	58.64	0.27
-20.99	14.2	382.9	7963.72	58.68	0.26
-21.12	14.2	382.1	7979.16	58.71	0.26
-21.29	14.2	381.3	7994.62	58.68	0.26
-21.38	14.2	380.6	8008.16	58.74	0.26
-21.48	14.2	380.0	8019.79	58.75	0.25
-21.56	14.2	379.3	8033.37	58.82	0.25
-21.61	14.3	378.5	8048.92	58.96	0.25

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-21.68	14.3	377.5	8068.40	59.12	0.25
-21.76	14.3	376.8	8082.06	59.19	0.25
-21.89	14.3	376.0	8097.70	59.22	0.25
-22.02	14.3	375.5	8107.49	59.17	0.25
-22.12	14.3	374.7	8123.17	59.24	0.25
-22.31	14.3	373.8	8140.83	59.22	0.24
-22.42	14.3	373.1	8154.59	59.25	0.24
-22.56	14.3	372.5	8166.41	59.22	0.24
-22.70	14.3	372.1	8174.29	59.14	0.24
-22.85	14.3	371.3	8190.06	59.14	0.23
-23.00	14.3	370.2	8211.80	59.22	0.23
-23.13	14.3	369.3	8229.62	59.28	0.23
-23.29	14.5	368.6	8243.50	59.25	0.23
-23.40	14.6	368.0	8255.41	59.26	0.23
-23.49	14.7	367.2	8271.32	59.35	0.23
-23.53	15.0	366.6	8283.28	59.45	0.23
-23.60	15.3	365.7	8301.24	59.59	0.24
-23.73	15.6	365.1	8313.23	59.57	0.24
-23.86	15.9	364.2	8331.25	59.63	0.24
-24.00	16.2	363.7	8341.27	59.58	0.24
-24.14	16.5	363.2	8351.30	59.52	0.24
-24.28	16.6	362.2	8371.40	59.60	0.24
-24.33	16.7	361.2	8391.54	59.79	0.24
-24.45	16.5	361.0	8395.57	59.68	0.24
-24.54	16.3	359.9	8417.79	59.85	0.23
-24.61	15.9	359.3	8429.93	59.92	0.23
-24.63	15.5	358.7	8442.09	60.05	0.22
-23.40	15.2	357.7	8462.45	61.97	0.24
-24.78	15.1	357.4	8468.57	60.20	0.21
-24.90	14.9	356.7	8482.82	60.22	0.21
-24.99	14.9	355.9	8499.14	60.32	0.21
-25.24	14.8	354.7	8523.66	60.30	0.20
-25.34	14.8	354.4	8529.80	60.25	0.20
-25.57	14.7	352.8	8562.61	60.37	0.20
-25.71	14.7	352.3	8572.89	60.32	0.19
-25.84	14.7	351.3	8593.48	60.41	0.19
-25.96	14.7	350.8	8603.79	60.39	0.19
-26.03	14.7	350.4	8612.04	60.40	0.19
-26.05	14.9	349.8	8624.44	60.54	0.19
-26.11	15.1	348.7	8647.22	60.76	0.19
-26.15	15.3	348.1	8659.67	60.87	0.20
-26.24	15.4	347.0	8682.56	61.05	0.20
-26.31	15.4	346.4	8695.06	61.12	0.20
-26.39	15.4	346.0	8703.41	61.12	0.20

### CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-26.46	15.2	345.4	8715.95	61.19	0.19
-26.56	15.1	344.5	8734.79	61.31	0.19
-26.62	15.0	344.1	8743.17	61.34	0.19
-26.71	14.9	343.2	8762.07	61.46	0.18
-26.79	14.9	342.4	8778.91	61.58	0.18
-26.90	14.9	342.1	8785.23	61.51	0.18
-27.01	14.9	341.1	8806.32	61.64	0.18
-27.12	14.9	340.6	8816.89	61.64	0.18
-27.20	15.0	340.0	8829.59	61.70	0.18
-27.18	15.0	339.2	8846.55	61.95	0.18
-27.20	15.2	338.6	8859.30	62.09	0.18
-27.23	15.4	337.9	8874.20	62.25	0.18
-27.28	15.7	337.3	8886.99	62.35	0.19
-27.35	16.1	336.5	8904.08	62.48	0.19
-27.47	16.5	335.9	8916.92	62.49	0.19
-27.57	17.1	335.2	8931.92	62.55	0.20
-27.65	18.0	334.5	8946.95	62.64	0.21
-27.79	19.2	333.9	8959.85	62.63	0.22
-27.84	20.8	333.2	8974.92	62.76	0.24
-27.96	22.9	332.7	8985.71	62.74	0.26
-28.08	24.7	331.9	9002.98	62.81	0.28
-28.23	26.6	331.3	9015.96	62.77	0.30
-28.34	28.2	330.5	9033.30	62.86	0.31
-28.51	29.8	329.9	9046.31	62.80	0.32
-28.61	31.2	329.2	9061.53	62.86	0.34
-28.74	32.7	328.5	9076.76	62.89	0.35
-28.90	33.5	328.0	9087.66	62.82	0.35
-28.96	34.5	327.2	9105.12	62.97	0.36
-29.02	35.3	326.5	9120.43	63.09	0.37
-29.09	35.2	325.9	9133.57	63.17	0.37
-29.15	35.5	325.2	9148.94	63.30	0.37
-29.14	35.1	324.5	9164.33	63.52	0.37
-29.14	36.2	323.9	9177.55	63.69	0.38
-29.18	39.2	323.3	9190.80	63.82	0.41
-30.07	39.5	322.9	9199.63	62.71	0.38
-29.98	39.6	322.3	9212.87	63.01	0.38
-29.96	39.9	321.6	9228.35	63.25	0.39
-29.96	40.5	320.9	9243.86	63.46	0.40
-30.00	41.5	320.4	9254.96	63.55	0.40
-30.00	43.7	319.6	9272.76	63.79	0.43
-30.04	46.1	319.1	9283.91	63.89	0.45
-30.14	48.1	318.4	9299.54	63.96	0.47
-30.21	50.2	317.9	9310.72	64.02	0.48
-30.46	53.0	316.2	9348.84	64.19	0.50

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-30.61	54.2	316.0	9353.34	64.04	0.51
-30.81	58.7	314.5	9387.11	64.22	0.54
-30.93	60.6	314.0	9398.40	64.21	0.55
-31.06	60.8	313.1	9418.75	64.30	0.55
-31.12	59.8	312.6	9430.08	64.37	0.54
-31.25	59.3	311.8	9448.24	64.44	0.53
-31.40	58.8	311.3	9459.60	64.38	0.52
-31.52	57.8	310.3	9482.37	64.53	0.50
-31.66	56.9	310.1	9486.93	64.39	0.49
-31.78	55.8	309.3	9505.19	64.48	0.48
-31.91	53.9	308.6	9521.20	64.51	0.45
-32.02	52.4	307.9	9537.24	64.58	0.44
-32.17	51.9	307.6	9544.12	64.46	0.43
-32.27	51.5	306.6	9567.09	64.64	0.42
-32.38	51.0	306.0	9580.90	64.67	0.41
-32.48	50.8	305.4	9594.74	64.72	0.41
-32.62	50.5	304.7	9610.90	64.74	0.40
-32.70	50.9	304.1	9624.78	64.82	0.40
-32.86	51.4	303.6	9636.36	64.76	0.40
-33.00	51.8	302.8	9654.92	64.82	0.40
-33.14	52.2	302.3	9666.54	64.78	0.40
-33.41	52.6	300.9	9699.14	64.85	0.39
-33.54	52.7	300.5	9708.47	64.79	0.39
-33.69	52.6	299.9	9722.49	64.77	0.38
-33.82	52.3	299.3	9736.53	64.78	0.38
-33.94	51.6	298.8	9748.24	64.78	0.37
-34.06	50.6	298.2	9762.31	64.80	0.36
-34.19	49.9	297.5	9778.76	64.84	0.35
-34.33	49.2	296.8	9795.24	64.87	0.34
-34.46	48.8	296.5	9802.31	64.79	0.33
-34.62	48.5	295.7	9821.18	64.82	0.33
-34.74	48.3	295.3	9830.63	64.78	0.32
-34.89	48.2	294.6	9847.19	64.80	0.32
-35.07	48.1	293.9	9863.78	64.77	0.31
-35.21	48.0	293.4	9875.65	64.74	0.31
-35.36	48.0	292.6	9894.66	64.79	0.30
-35.45	47.5	292.1	9906.56	64.83	0.30
-35.60	47.1	291.3	9925.64	64.88	0.29
-35.74	46.4	290.9	9935.20	64.81	0.28
-35.96	45.7	289.9	9959.12	64.83	0.27
-35.98	45.0	289.4	9971.11	64.97	0.27
-36.01	43.4	289.0	9980.71	65.06	0.26
-36.07	41.6	288.2	9999.95	65.24	0.25
-36.18	40.3	287.7	10012.00	65.25	0.24

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-36.33	39.5	287.0	10028.90	65.28	0.23
-36.45	39.0	286.4	10043.40	65.31	0.23
-36.60	38.6	285.7	10060.36	65.33	0.22
-36.79	38.3	284.7	10084.63	65.40	0.22
-36.88	38.5	284.1	10099.22	65.47	0.21
-36.98	38.6	283.5	10113.85	65.53	0.21
-37.06	38.5	283.0	10126.05	65.59	0.21
-37.13	38.2	282.3	10143.16	65.73	0.21
-37.24	38.0	281.7	10157.86	65.78	0.21
-37.36	37.8	281.1	10172.58	65.81	0.20
-37.38	37.6	280.7	10182.41	65.92	0.20
-37.42	37.3	279.9	10202.11	66.14	0.20
-37.53	37.2	279.4	10214.45	66.16	0.20
-37.65	37.3	278.9	10226.80	66.16	0.20
-37.80	37.6	278.2	10244.12	66.18	0.19
-37.94	37.9	277.6	10258.99	66.19	0.19
-38.06	38.3	277.1	10271.40	66.19	0.19
-38.22	38.8	276.5	10286.31	66.17	0.19
-38.28	39.4	275.9	10301.25	66.30	0.20
-38.35	40.1	275.3	10316.22	66.41	0.20
-38.41	40.3	274.6	10333.72	66.57	0.20
-38.50	39.9	274.1	10346.24	66.61	0.20
-38.57	39.2	273.6	10358.78	66.69	0.19
-38.61	38.7	273.0	10373.86	66.85	0.19
-38.75	38.3	272.3	10391.48	66.89	0.18
-38.91	38.2	271.8	10404.09	66.84	0.18
-39.01	38.2	271.2	10419.24	66.91	0.18
-39.15	38.4	270.6	10434.41	66.92	0.18
-39.30	38.6	270.3	10442.01	66.81	0.18
-39.47	38.7	269.5	10462.30	66.85	0.17
-39.62	38.8	269.1	10472.45	66.78	0.17
-39.77	39.0	268.4	10490.26	66.81	0.17
-39.92	39.2	267.7	10508.09	66.85	0.17
-40.03	39.4	267.6	10510.64	66.72	0.17
-40.18	39.6	266.7	10533.63	66.83	0.17
-40.48	40.0	266.1	10548.98	66.61	0.16
-40.57	40.3	265.1	10574.62	66.85	0.16
-40.79	40.4	264.7	10584.89	66.67	0.16
-40.94	40.5	264.2	10597.75	66.64	0.16
-41.11	40.1	263.4	10618.36	66.68	0.16
-41.26	40.0	263.0	10628.68	66.61	0.15
-41.41	40.1	262.3	10646.76	66.65	0.15
-41.59	40.0	261.6	10664.89	66.65	0.15
-41.72	39.9	261.3	10672.66	66.57	0.15



CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-41.87	39.6	260.4	10696.03	66.68	0.14
-42.03	38.8	260.2	10701.23	66.52	0.14
-42.13	37.9	259.6	10716.85	66.60	0.13
-42.28	37.1	259.2	10727.27	66.53	0.13
-42.44	36.5	258.6	10742.93	66.52	0.12
-42.59	35.9	258.0	10758.61	66.52	0.12
-42.72	35.3	257.4	10774.32	66.56	0.12
-42.83	34.6	256.9	10787.44	66.58	0.11
-42.91	33.9	256.4	10800.57	66.66	0.11
-43.02	33.4	255.9	10813.72	66.68	0.11
-43.11	33.1	255.4	10826.90	66.74	0.11
-43.22	32.4	254.9	10840.09	66.77	0.10
-43.31	31.2	254.2	10858.60	66.90	0.10
-43.40	30.0	253.9	10866.54	66.88	0.09
-43.50	28.9	253.3	10882.45	66.97	0.09
-43.59	27.8	252.8	10895.73	67.02	0.09
-43.72	26.9	252.4	10906.37	66.99	0.08
-43.78	26.1	251.8	10922.35	67.13	0.08
-43.92	25.3	251.3	10935.69	67.11	0.08
-44.09	24.7	250.8	10949.05	67.06	0.07
-44.22	24.0	250.5	10957.08	66.98	0.07
-44.36	23.5	250.0	10970.46	66.97	0.07
-44.50	23.0	249.2	10991.92	67.07	0.07
-44.58	23.1	248.9	10999.98	67.07	0.06
-44.71	23.8	248.4	11013.43	67.07	0.07
-44.77	25.0	247.9	11026.90	67.18	0.07
-45.01	26.1	247.1	11048.50	67.13	0.07
-45.05	27.4	246.8	11056.61	67.19	0.07
-45.21	28.8	246.6	11062.03	67.03	0.08
-45.37	30.2	246.2	11072.85	66.95	0.08
-45.51	31.4	245.6	11089.12	66.98	0.08
-45.66	32.5	244.9	11108.13	67.03	0.08
-45.72	33.0	244.4	11121.74	67.14	0.08
-45.89	33.1	244.0	11132.64	67.05	0.08
-45.95	33.1	243.3	11151.75	67.24	0.08
-46.07	33.0	243.0	11159.96	67.18	0.08
-46.18	32.9	242.7	11168.17	67.13	0.08
-46.35	32.6	242.0	11187.35	67.16	0.08
-46.49	32.4	241.7	11195.58	67.07	0.08
-46.62	32.1	241.2	11209.32	67.07	0.07
-46.79	32.0	240.8	11220.32	66.98	0.07
-46.91	31.9	240.4	11231.34	66.96	0.07
-47.02	31.8	240.0	11242.36	66.96	0.07
-47.19	31.5	239.4	11258.92	66.95	0.07

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-47.32	31.2	239.0	11269.98	66.91	0.07
-47.39	30.6	238.7	11278.28	66.93	0.07
-47.45	29.9	238.3	11289.37	67.00	0.06
-47.56	29.1	237.9	11300.46	67.00	0.06
-47.62	28.6	237.5	11311.57	67.07	0.06
-47.67	28.0	237.2	11319.92	67.12	0.06
-47.70	27.6	236.8	11331.06	67.24	0.06
-47.76	27.1	236.4	11342.21	67.31	0.06
-47.81	26.8	236.1	11350.59	67.36	0.06
-47.75	26.4	235.7	11361.78	67.62	0.05
-47.73	26.1	235.3	11372.98	67.81	0.05
-47.74	25.7	234.9	11384.21	67.96	0.05
-47.79	25.4	234.6	11392.64	68.01	0.05
-47.83	25.1	234.2	11403.90	68.12	0.05
-47.86	24.8	233.7	11418.00	68.28	0.05
-47.97	24.5	233.6	11420.82	68.16	0.05
-48.07	24.3	232.9	11440.60	68.30	0.05
-48.23	24.1	232.7	11446.25	68.14	0.05
-48.29	23.8	232.4	11454.75	68.18	0.05
-48.43	23.7	232.0	11466.08	68.13	0.05
-48.64	23.3	231.7	11474.59	67.94	0.04
-48.75	23.1	231.2	11488.78	67.98	0.04
-48.80	23.0	230.9	11497.31	68.03	0.04
-48.96	22.9	230.6	11505.85	67.92	0.04
-48.99	22.7	230.4	11511.54	67.96	0.04
-49.04	22.6	230.1	11520.09	68.01	0.04
-49.11	22.4	229.6	11534.36	68.11	0.04
-49.21	22.3	229.4	11540.07	68.04	0.04
-49.31	22.2	228.9	11554.37	68.10	0.04
-49.45	22.1	228.7	11560.10	67.98	0.04
-49.52	22.0	228.3	11571.56	68.04	0.04
-49.60	21.9	228.0	11580.17	68.05	0.04
-49.65	21.8	227.5	11594.53	68.19	0.04
-49.72	21.8	227.1	11606.04	68.25	0.04
-49.87	21.6	226.6	11620.45	68.24	0.04
-49.93	21.5	226.0	11637.78	68.40	0.04
-50.10	21.4	225.7	11646.46	68.27	0.04
-50.18	21.4	225.4	11655.14	68.28	0.04
-50.38	21.3	224.8	11672.53	68.23	0.03
-50.63	21.2	224.5	11681.23	67.98	0.03
-50.78	21.2	223.9	11698.66	68.01	0.03
-50.83	21.1	223.7	11704.47	68.02	0.03
-51.02	21.1	223.2	11719.03	67.95	0.03
-51.15	21.1	222.9	11727.77	67.88	0.03

CSI Profile: STA2RS04

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-51.29	21.0	222.3	11745.28	67.93	0.03
-51.42	21.0	222.2	11748.21	67.77	0.03
-51.58	21.0	221.8	11759.90	67.70	0.03
-51.76	21.0	221.1	11780.39	67.73	0.03
-51.67	21.0	220.8	11789.19	68.00	0.03
-51.78	21.0	220.6	11795.06	67.92	0.03
-51.94	20.9	220.2	11806.82	67.85	0.03
-51.99	20.9	219.9	11815.65	67.91	0.03
-52.03	20.9	219.3	11833.33	68.11	0.03
-52.17	20.8	219.0	11842.19	68.03	0.03
-51.23	20.9	218.7	11851.08	69.62	0.03
-51.61	20.9	218.3	11862.96	69.21	0.03
-51.81	20.9	217.9	11874.85	69.08	0.03
-52.09	20.9	217.5	11886.75	68.83	0.03
-52.34	20.9	217.1	11898.65	68.62	0.03
-52.68	20.7	216.3	11922.49	68.45	0.03
-53.01	20.8	215.9	11934.43	68.12	0.03
-53.01	20.9	215.4	11949.37	68.35	0.03
-53.32	20.9	214.9	11964.34	68.10	0.02
-53.50	20.9	214.3	11982.32	68.09	0.02
-53.74	20.8	213.5	12006.36	68.08	0.02
-53.76	20.9	213.2	12015.39	68.19	0.02
-53.90	20.9	213.1	12018.40	68.02	0.02
-54.42	20.5	212.1	12048.55	67.66	0.02
-54.35	20.6	211.9	12054.59	67.87	0.02
-54.69	20.7	211.5	12066.68	67.52	0.02
-54.78	20.7	210.9	12084.85	67.66	0.02
-54.98	20.8	210.5	12096.98	67.53	0.02
-55.11	20.8	210.3	12103.05	67.42	0.02
-55.08	20.8	210.1	12109.12	67.56	0.02
-55.39	20.9	209.9	12115.19	67.17	0.02
-55.36	20.9	209.3	12133.44	67.49	0.02
-55.96	20.9	208.8	12148.67	66.79	0.02
-55.52	20.9	208.4	12160.87	67.66	0.02
-55.64	20.9	208.0	12173.11	67.66	0.02
-55.75	20.9	207.7	12182.30	67.63	0.02
-55.83	20.9	207.2	12197.63	67.74	0.02
-56.25	20.9	206.5	12219.14	67.41	0.02
-56.31	21.0	206.2	12228.37	67.46	0.02
-56.46	20.9	205.5	12249.95	67.55	0.02
-56.60	21.0	205.2	12259.21	67.47	0.02
-56.67	21.0	204.7	12274.67	67.60	0.02
-56.78	21.0	204.4	12283.96	67.57	0.02
-57.07	21.0	204.1	12293.26	67.26	0.02

**CSI Profile: STA2RS04**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-57.62	21.1	203.9	12299.45	66.49	0.02
-57.21	21.1	203.4	12314.96	67.37	0.02
-57.47	21.1	203.2	12321.17	67.06	0.02
-57.58	21.2	202.8	12333.61	67.08	0.02
-57.64	21.2	202.6	12339.84	67.08	0.02
-57.68	21.2	201.9	12361.67	67.35	0.02
-57.64	21.2	201.5	12374.18	67.61	0.02
-58.39	21.3	200.6	12402.37	66.86	0.01
-58.33	21.3	200.2	12414.92	67.15	0.01
-58.47	21.4	200.1	12418.06	66.97	0.01
-58.71	21.4	199.8	12427.48	66.74	0.01
-58.84	21.4	199.2	12446.35	66.82	0.01



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring  
PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA2RS05  
Radiosonde ✓ Tethersonde \_\_\_\_\_  
Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_  
Date 8/24/94 Ob Time 0650 CDT  
Site Chandeleur Islander, Breton Sound, LA  
Observer Blanchard

Barometric Pressure: 1022.8 mBars  
Dry-Bulb Temperature: 27.4 degrees C  
Wet-Bulb Temperature: 25.2 degrees C  
Relative Humidity: 84 percent  
Wind Speed: 6 knots mph m/s  
Wind Direction: ✓ degrees M T  
Sonde Battery Voltage: 9.47 VDC  
Actual Time of Launch: 0706 CDT

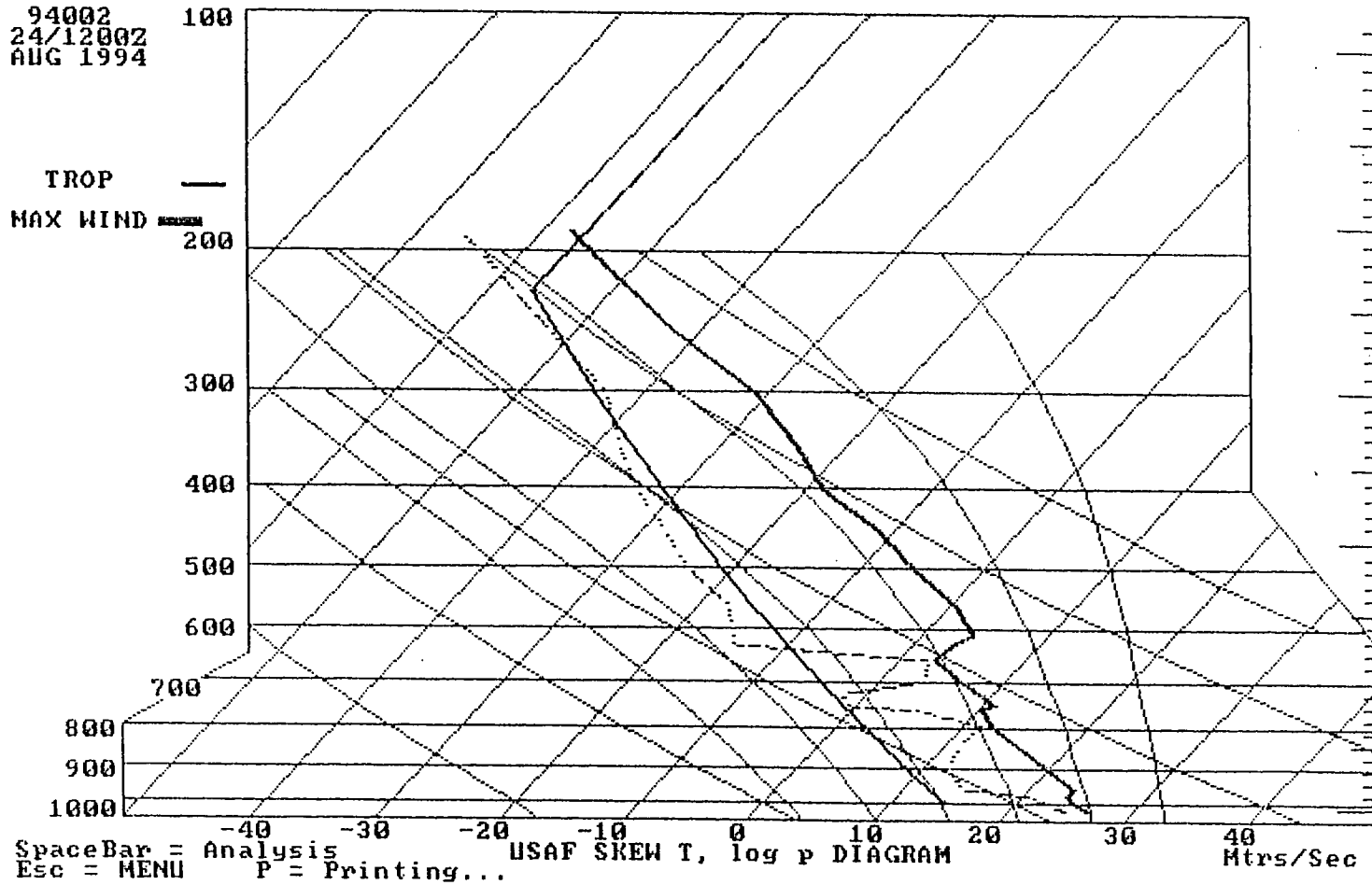
Comments: (Cloud cover, type, flight description, etc.)

SCT altocumulus  
H.V.U. 10387 R.V.U. 78.15  
Launch delayed due to bad temp on first  
sonde, second O.K.  
A.I.R. pressure ~ 1016.8mb,  $\Delta p \sim 6.2mb$ .

Additional Comments on Back

94002  
24/1200Z  
AUG 1994

TROP  
MAX WIND



D-94

Station Number: 94002

DTG of RAOB: 24/1200Z AUG 1994

Indices	=		Sfc Data: 1023mb T= 26.2°C Td= 24.3°C	Heights	
SSI	=	3.9	-265ft Sfc Wind: 999/0-1kt	100mb	= MISG
KO	=	-10.5		150mb	= MISG
R Index	=	30.2	Adiabatic Processes	200mb	= 12460M
Lifted Index	=	0.9	Wet Bulb Zero = 640mb -- 12175ft	250mb	= 10990M
Sweat Index	=	Missing	LCL = 995mb 23.8°C 499ft	300mb	= 9730M
Total-Totals	=	39.2	LFC = 914mb 20.7°C 2833ft	400mb	= 7650M
U Totals	=	22.1	CCL = 979mb 23.6°C 950ft	500mb	= 5940M
X Totals	=	17.1	Tc = -- 27.3°C --	700mb	= 3230M
Fog SI	=	Missing	CCL E.L. = 972mb 23.2°C 1145ft	850mb	= 1612M
Fog Threat	=	-3.3	LFC E.L. = None	1000mb	= 202M
Fog Point	=	22.7°C	850mb WBPT = -- 19.4°C --		

Inversion Layers	Type	Break	Freezing Levels	Thickness
655- 610mb 11579-13379ft	Subs	47.8°C	556mb 15672ft	500-300mb = 3790M
756- 749mb 7879- 8122ft	Subs	37.2°C		700-500mb = 2710M
972- 956mb 1145- 1600ft	Subs	29.2°C		850-500mb = 4328M
				850-700mb = 1618M
				1000-500mb = 5738M
				1000-700mb = 3028M
				1000-850mb = 1410M

Max Wind  
None Reported

Base	Icing Layers	Intensity	Base	Turbulence Layers	Shear
	Top			Top	
	None			None	

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEM T Analysis

(All Heights MSL)

D-95

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
26.12	89.5	1022.9	3.00	24.19	18.98
26.30	90.5	1022.5	6.47	24.40	19.41
26.04	87.5	1020.8	21.21	24.28	18.49
25.98	87.3	1019.2	35.10	24.36	18.41
25.87	87.3	1017.4	50.74	24.40	18.32
25.79	87.4	1016.1	62.06	24.43	18.27
25.67	87.6	1014.4	76.87	24.45	18.22
25.54	87.8	1012.7	91.69	24.46	18.15
25.41	88.2	1011.0	106.54	24.48	18.12
25.30	88.6	1009.4	120.53	24.50	18.11
25.15	88.8	1007.4	138.04	24.52	18.02
25.05	89.1	1005.7	152.94	24.57	18.01
24.84	88.8	1003.9	168.74	24.51	17.75
24.76	88.9	1002.2	183.68	24.57	17.71
24.67	89.0	1000.1	202.16	24.66	17.67
24.54	89.2	998.0	220.68	24.71	17.61
24.38	89.1	995.5	242.76	24.76	17.46
24.27	89.0	993.6	259.56	24.82	17.36
24.18	89.1	992.2	271.97	24.85	17.31
24.02	89.2	990.6	286.15	24.82	17.19
23.93	89.8	989.1	299.47	24.86	17.24
23.82	90.1	987.5	313.69	24.89	17.21
23.72	90.1	986.0	327.04	24.92	17.13
23.54	89.8	984.5	340.40	24.87	16.91
23.53	89.3	983.0	353.77	24.99	16.83
23.42	89.4	981.5	367.17	25.01	16.76
23.35	89.4	979.9	381.47	25.08	16.71
23.32	88.1	978.5	394.00	25.17	16.46
23.25	85.7	977.0	407.44	25.23	15.95
23.24	85.0	975.4	421.80	25.36	15.84
23.21	84.6	973.8	436.18	25.47	15.76
23.13	83.3	972.2	450.57	25.53	15.46
23.18	77.7	970.5	465.89	25.73	14.47
23.26	71.3	969.0	479.42	25.94	13.34
23.32	68.5	967.3	494.78	26.15	12.87
23.28	66.7	965.9	507.44	26.24	12.51
23.30	65.9	964.0	524.66	26.42	12.40
23.34	61.7	962.3	540.08	26.62	11.65
23.31	60.4	960.9	552.81	26.71	11.39
23.30	59.3	959.4	566.46	26.83	11.19
23.30	57.5	957.9	580.12	26.97	10.86
23.34	55.9	956.4	593.81	27.14	10.60
23.29	56.0	954.8	608.44	27.24	10.60
23.11	56.1	953.0	624.91	27.22	10.53



CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
23.05	57.1	951.4	639.57	27.30	10.70
22.84	58.3	949.8	654.25	27.23	10.80
22.73	59.1	948.2	668.96	27.27	10.90
22.56	59.4	946.7	682.75	27.23	10.86
22.37	59.4	945.2	696.56	27.17	10.75
22.31	59.9	943.6	711.31	27.26	10.82
22.20	60.3	942.0	726.08	27.29	10.84
22.12	60.6	940.6	739.02	27.34	10.85
22.00	61.1	939.1	752.91	27.35	10.88
21.85	62.1	937.5	767.73	27.35	10.98
21.70	62.1	935.9	782.58	27.34	10.90
21.61	61.4	934.3	797.44	27.39	10.73
21.54	61.1	932.8	811.39	27.46	10.65
21.41	60.1	931.4	824.42	27.46	10.40
21.39	60.2	929.8	839.34	27.59	10.43
21.21	61.0	928.2	854.28	27.55	10.47
21.16	61.2	926.8	867.37	27.63	10.48
21.11	60.2	924.9	885.16	27.75	10.30
21.05	59.6	923.5	898.28	27.82	10.17
21.01	58.3	922.0	912.37	27.92	9.94
20.87	57.7	920.5	926.47	27.92	9.77
20.94	58.2	919.0	940.59	28.13	9.91
20.81	58.3	917.4	955.67	28.15	9.87
20.80	56.9	916.0	968.89	28.27	9.63
20.74	56.3	914.4	984.02	28.36	9.51
20.64	55.7	912.7	1000.12	28.42	9.37
20.63	55.7	911.2	1014.34	28.55	9.38
20.49	55.9	909.9	1026.69	28.53	9.34
20.34	57.8	908.4	1040.95	28.52	9.59
20.31	56.7	906.7	1057.13	28.65	9.41
20.24	57.6	905.2	1071.43	28.72	9.53
20.07	58.9	903.7	1085.75	28.69	9.66
19.93	59.4	902.0	1102.01	28.70	9.68
19.82	59.9	900.5	1116.36	28.73	9.71
19.72	60.3	899.0	1130.74	28.78	9.73
19.66	60.2	897.5	1145.14	28.86	9.70
19.65	59.7	895.9	1160.52	29.00	9.63
19.47	59.4	894.6	1173.04	28.94	9.48
19.49	59.5	892.8	1190.39	29.14	9.53
19.32	61.6	891.4	1203.91	29.10	9.78
19.19	62.2	889.9	1218.41	29.11	9.82
19.09	62.8	888.4	1232.93	29.15	9.87
19.05	63.1	886.9	1247.47	29.25	9.91
18.91	63.3	885.2	1263.97	29.28	9.87

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
18.80	63.3	883.7	1278.55	29.31	9.82
18.67	63.4	882.3	1292.18	29.31	9.77
18.59	63.7	880.9	1305.82	29.37	9.78
18.51	64.1	879.2	1322.42	29.45	9.81
18.39	64.4	877.7	1337.08	29.47	9.80
18.20	64.9	876.2	1351.76	29.42	9.78
18.15	65.0	874.7	1366.45	29.52	9.78
18.00	65.0	873.4	1379.21	29.49	9.70
17.83	65.3	871.7	1395.90	29.48	9.66
17.79	65.3	870.2	1410.66	29.59	9.65
17.65	65.4	868.8	1424.45	29.59	9.60
17.52	65.5	867.5	1437.26	29.58	9.55
17.39	65.6	866.1	1451.08	29.58	9.50
17.29	66.1	864.6	1465.91	29.63	9.53
17.17	66.4	863.1	1480.75	29.66	9.51
17.03	66.7	861.8	1493.63	29.64	9.49
16.97	67.3	860.2	1509.50	29.74	9.55
16.97	67.6	858.8	1523.42	29.88	9.61
16.87	67.6	857.2	1539.34	29.94	9.57
16.72	67.8	855.8	1553.29	29.92	9.52
16.64	68.5	854.4	1567.26	29.98	9.59
16.60	69.3	852.7	1584.26	30.11	9.70
16.34	70.4	851.3	1598.27	29.98	9.70
16.12	71.3	849.9	1612.29	29.89	9.71
16.12	72.6	848.1	1630.35	30.08	9.91
15.91	73.7	846.6	1645.42	30.01	9.94
15.86	74.5	845.1	1660.52	30.11	10.04
15.72	74.9	843.5	1676.64	30.13	10.02
15.50	75.5	842.0	1691.78	30.05	9.98
15.34	76.1	840.5	1706.93	30.04	9.97
15.31	75.9	839.2	1720.08	30.14	9.94
15.29	76.2	837.6	1736.29	30.29	9.99
15.18	76.0	836.1	1751.51	30.33	9.91
15.05	76.0	834.9	1763.70	30.31	9.84
14.91	76.5	833.4	1778.96	30.32	9.83
14.81	76.7	831.8	1795.26	30.38	9.81
14.56	77.6	830.4	1809.53	30.27	9.78
14.58	79.2	829.0	1823.83	30.43	10.02
14.48	81.0	827.8	1836.10	30.45	10.20
14.34	82.2	826.1	1853.51	30.48	10.28
14.24	82.7	824.8	1866.85	30.52	10.29
14.05	86.1	823.4	1881.22	30.46	10.61
13.99	87.2	822.1	1894.59	30.54	10.72
13.91	88.1	820.6	1910.04	30.61	10.79

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
13.81	88.8	819.4	1922.41	30.63	10.83
13.81	89.2	818.1	1935.84	30.77	10.89
13.73	89.3	816.7	1950.32	30.83	10.87
13.54	89.3	815.3	1964.81	30.78	10.75
13.43	88.9	814.1	1977.25	30.79	10.64
13.25	89.8	812.6	1992.82	30.76	10.64
13.27	91.0	811.4	2005.29	30.91	10.82
13.10	91.6	810.1	2018.81	30.87	10.78
12.98	92.0	808.6	2034.44	30.90	10.77
12.82	92.5	807.3	2048.00	30.87	10.73
12.74	93.1	805.9	2062.62	30.94	10.76
12.62	93.4	804.5	2077.26	30.96	10.73
12.52	93.1	803.6	2086.69	30.95	10.63
12.39	93.1	802.1	2102.41	30.98	10.56
12.39	91.6	800.7	2117.10	31.13	10.41
12.25	90.9	799.5	2129.71	31.11	10.25
12.18	93.0	798.0	2145.49	31.20	10.46
12.14	93.0	796.7	2159.20	31.30	10.45
12.01	95.9	795.5	2171.86	31.29	10.70
11.85	96.3	794.1	2186.66	31.28	10.65
11.95	95.7	792.8	2200.41	31.52	10.67
11.87	94.9	791.4	2215.26	31.59	10.54
11.89	92.2	790.1	2229.06	31.76	10.27
11.96	90.5	788.7	2243.95	31.99	10.14
11.94	88.5	787.3	2258.87	32.12	9.92
11.82	86.8	786.1	2271.67	32.13	9.66
11.51	86.3	784.9	2284.48	31.93	9.42
11.60	85.8	783.5	2299.44	32.18	9.44
11.70	85.0	782.2	2313.36	32.43	9.43
11.77	76.8	780.9	2327.31	32.65	8.56
11.68	72.3	779.7	2340.20	32.69	8.02
11.66	69.3	778.4	2354.18	32.81	7.69
11.71	65.1	777.1	2368.18	33.01	7.25
11.65	69.1	775.7	2383.28	33.11	7.69
11.61	73.4	774.6	2395.16	33.19	8.16
11.54	74.3	773.2	2410.32	33.27	8.24
11.35	74.0	772.0	2423.32	33.20	8.11
11.31	73.7	770.8	2436.34	33.30	8.07
11.11	73.9	769.5	2450.46	33.23	8.00
10.95	73.7	768.0	2466.76	33.23	7.91
10.78	73.9	766.8	2479.83	33.18	7.85
10.79	74.2	765.5	2494.00	33.34	7.90
10.70	74.5	764.1	2509.28	33.40	7.90
10.55	74.7	762.8	2523.49	33.39	7.86

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
10.49	74.4	761.6	2536.63	33.47	7.80
10.40	73.9	760.4	2549.78	33.51	7.72
10.30	73.1	759.0	2565.14	33.56	7.60
10.12	72.3	757.7	2579.43	33.52	7.43
9.91	71.6	756.3	2594.82	33.45	7.27
9.94	68.8	755.1	2608.04	33.62	7.01
10.06	64.7	753.8	2622.38	33.90	6.65
10.22	57.6	752.5	2636.75	34.23	5.99
10.52	51.2	751.2	2651.15	34.71	5.44
10.65	45.4	749.9	2665.58	35.00	4.87
10.72	44.4	748.8	2677.81	35.20	4.79
10.58	44.5	747.3	2694.52	35.23	4.76
10.52	45.2	746.2	2706.78	35.29	4.83
10.35	45.8	744.8	2722.42	35.28	4.84
10.22	45.7	743.4	2738.07	35.30	4.80
10.18	45.7	742.1	2752.63	35.41	4.80
10.19	45.3	740.7	2768.34	35.59	4.77
10.12	44.4	739.3	2784.07	35.68	4.66
9.95	45.0	738.0	2798.71	35.65	4.68
9.81	45.4	736.6	2814.48	35.66	4.68
9.69	46.0	735.2	2830.28	35.70	4.71
9.64	46.9	733.8	2846.11	35.81	4.80
9.56	48.3	732.5	2860.82	35.88	4.93
9.42	55.2	731.1	2876.70	35.90	5.60
9.02	54.6	729.8	2891.46	35.62	5.39
9.12	53.7	728.2	2909.65	35.92	5.35
9.11	48.1	727.0	2923.32	36.06	4.80
9.08	47.1	725.5	2940.43	36.21	4.70
8.79	48.3	724.1	2956.43	36.06	4.73
8.62	48.8	722.7	2972.44	36.05	4.73
8.56	57.1	721.4	2987.34	36.14	5.53
8.46	61.0	719.9	3004.56	36.21	5.89
8.27	72.0	718.6	3019.51	36.16	6.88
8.00	76.3	717.1	3036.79	36.05	7.18
7.99	78.1	715.7	3052.94	36.21	7.36
7.77	80.2	714.4	3067.96	36.13	7.46
7.59	79.5	712.9	3085.32	36.12	7.32
7.42	79.6	711.5	3101.54	36.11	7.26
7.32	79.7	710.0	3118.95	36.18	7.23
7.03	81.5	708.8	3132.89	36.01	7.26
7.01	83.1	707.3	3150.34	36.18	7.41
6.83	85.1	705.8	3167.82	36.17	7.51
6.76	85.2	704.5	3183.00	36.25	7.50
6.70	83.9	703.2	3198.20	36.35	7.37

**CSI Profile: STA2RS05**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.71	81.0	701.8	3214.59	36.54	7.13
6.50	80.5	700.5	3229.84	36.47	7.00
6.53	81.1	698.9	3248.64	36.71	7.08
6.45	83.0	697.6	3263.95	36.78	7.22
6.19	85.4	696.2	3280.45	36.67	7.31
6.16	88.2	694.8	3296.99	36.82	7.56
6.09	89.9	693.6	3311.18	36.89	7.68
6.06	89.4	692.2	3327.77	37.04	7.63
6.05	87.0	691.0	3342.02	37.18	7.44
6.00	86.1	689.5	3359.86	37.32	7.35
5.97	85.5	688.4	3372.96	37.43	7.29
5.78	85.1	687.2	3387.27	37.37	7.17
5.57	84.6	685.8	3403.99	37.32	7.04
5.67	84.9	684.6	3418.34	37.58	7.13
5.56	85.5	683.5	3431.52	37.60	7.14
5.51	85.8	682.2	3447.12	37.72	7.15
5.18	86.3	680.9	3462.73	37.52	7.04
5.06	86.6	679.7	3477.16	37.54	7.02
4.91	86.5	678.5	3491.61	37.53	6.95
4.83	86.7	677.2	3507.28	37.61	6.94
4.64	86.9	675.9	3522.98	37.57	6.88
4.53	87.2	674.8	3536.27	37.59	6.86
4.47	87.6	673.5	3552.01	37.70	6.87
4.55	88.5	672.4	3565.35	37.93	7.00
4.35	89.3	671.4	3577.50	37.84	6.97
4.26	89.8	670.0	3594.52	37.92	6.98
4.14	90.8	668.8	3609.14	37.95	7.01
4.00	92.3	667.7	3622.55	37.94	7.07
3.84	92.9	666.3	3639.65	37.95	7.05
3.64	93.6	665.2	3653.10	37.87	7.02
3.58	94.2	664.1	3666.56	37.95	7.04
3.33	95.0	662.9	3681.27	37.83	6.99
3.35	95.5	661.8	3694.77	38.00	7.05
3.25	95.9	660.6	3709.52	38.05	7.04
3.18	96.3	659.6	3721.82	38.10	7.05
3.00	96.5	657.7	3745.25	38.16	6.99
2.92	96.5	656.7	3757.60	38.20	6.96
2.61	96.4	655.7	3769.96	37.99	6.81
2.52	96.4	654.6	3783.56	38.04	6.78
2.62	96.2	653.5	3797.19	38.30	6.83
3.15	91.7	652.4	3810.86	39.05	6.77
3.50	86.8	651.1	3827.07	39.62	6.58
3.54	84.7	650.3	3837.07	39.78	6.44
3.70	80.6	649.3	3849.58	40.10	6.21

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.83	69.9	647.2	3875.93	40.53	5.44
3.98	67.3	646.4	3886.00	40.81	5.30
3.93	65.2	645.2	3901.12	40.92	5.13
3.79	63.8	644.1	3914.99	40.92	4.98
3.75	62.3	643.1	3927.63	41.01	4.85
3.71	59.1	642.1	3940.28	41.11	4.59
3.96	58.4	641.2	3951.68	41.52	4.63
3.75	57.9	640.0	3966.91	41.45	4.53
3.63	57.9	639.1	3978.35	41.44	4.50
3.66	61.4	638.0	3992.34	41.63	4.79
3.40	62.4	637.0	4005.08	41.47	4.79
3.55	64.0	636.0	4017.84	41.78	4.97
3.51	66.2	634.8	4033.19	41.91	5.14
3.28	67.0	633.5	4049.83	41.83	5.13
2.95	67.7	631.3	4078.05	41.77	5.08
2.86	66.4	630.4	4089.62	41.79	4.95
2.94	59.8	629.3	4103.77	42.04	4.49
2.96	58.1	628.2	4117.95	42.22	4.38
2.82	56.6	627.0	4133.44	42.24	4.23
2.92	54.3	625.4	4154.13	42.58	4.10
2.89	52.4	624.6	4164.50	42.66	3.95
2.92	43.2	623.3	4181.37	42.89	3.26
3.01	38.2	622.1	4196.98	43.16	2.91
3.06	35.2	620.9	4212.61	43.39	2.69
2.97	34.3	619.8	4226.97	43.45	2.61
2.74	33.6	618.8	4240.04	43.33	2.52
2.84	33.3	617.9	4251.81	43.58	2.52
2.60	33.2	616.7	4267.53	43.48	2.48
2.60	31.7	615.5	4283.28	43.66	2.37
2.89	28.5	614.7	4293.80	44.11	2.18
3.22	25.3	613.4	4310.94	44.68	1.98
3.53	25.0	612.1	4328.13	45.23	2.00
3.45	24.3	611.3	4338.73	45.26	1.94
3.70	24.1	610.0	4356.00	45.74	1.96
3.56	24.0	609.2	4366.64	45.70	1.94
3.69	23.7	608.0	4382.64	46.03	1.93
3.63	23.4	606.8	4398.66	46.14	1.91
3.58	23.3	605.7	4413.38	46.25	1.89
3.47	23.1	604.8	4425.44	46.26	1.87
3.50	22.9	603.6	4441.54	46.47	1.86
3.36	22.9	602.5	4456.32	46.48	1.84
3.35	22.9	601.5	4469.78	46.62	1.84
3.12	22.9	600.3	4485.95	46.53	1.82
2.88	22.8	599.1	4502.15	46.44	1.78

**CSI Profile: STA2RS05**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.04	22.9	598.0	4517.02	46.79	1.82
2.99	22.9	596.9	4531.92	46.90	1.81
2.91	22.9	595.9	4545.48	46.96	1.80
2.78	22.9	595.2	4554.99	46.92	1.79
2.62	22.9	593.8	4574.03	46.95	1.77
2.47	23.1	592.7	4589.01	46.95	1.77
2.46	23.0	591.9	4599.91	47.06	1.77
2.33	23.0	590.3	4621.77	47.15	1.76
2.22	23.1	589.2	4636.82	47.20	1.75
2.12	23.1	588.6	4645.04	47.17	1.74
2.25	23.1	587.3	4662.88	47.53	1.76
2.11	23.1	586.6	4672.50	47.47	1.75
2.00	23.2	585.1	4693.15	47.58	1.75
1.69	23.2	583.4	4716.60	47.49	1.71
1.50	23.1	582.4	4730.41	47.42	1.68
1.52	23.1	581.4	4744.24	47.60	1.69
1.59	23.3	579.3	4773.37	48.02	1.72
1.52	23.2	579.2	4774.76	47.95	1.70
1.42	23.2	578.1	4790.06	48.01	1.69
1.23	23.3	577.0	4805.37	47.96	1.68
1.21	23.2	576.3	4815.13	48.05	1.67
1.03	23.3	574.7	4837.48	48.09	1.66
0.99	23.2	574.5	4840.27	48.08	1.65
0.94	23.2	573.3	4857.07	48.21	1.65
0.89	23.2	572.4	4869.68	48.30	1.65
0.84	23.2	571.7	4879.51	48.35	1.64
0.94	23.0	570.5	4896.38	48.66	1.64
0.72	22.9	569.8	4906.24	48.52	1.61
0.89	22.9	568.6	4923.16	48.91	1.64
0.83	22.9	567.8	4934.46	48.97	1.63
0.79	22.9	566.7	4950.03	49.10	1.63
0.56	22.9	566.2	4957.11	48.91	1.60
0.48	22.8	565.1	4972.71	49.00	1.59
0.43	22.8	563.9	4989.75	49.14	1.59
0.40	22.8	563.0	5002.55	49.25	1.59
0.43	22.8	562.2	5013.95	49.41	1.59
0.47	22.8	561.9	5018.23	49.51	1.60
0.33	22.8	560.7	5035.36	49.54	1.59
0.27	22.8	559.8	5048.23	49.62	1.58
0.23	22.8	558.9	5061.12	49.72	1.58
0.08	22.8	557.2	5085.52	49.83	1.57
-0.05	23.0	555.8	5105.65	49.90	1.57
-0.12	22.9	555.1	5115.74	49.94	1.56
-0.27	23.0	554.3	5127.27	49.89	1.55

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-0.31	23.0	553.4	5140.26	50.00	1.55
-0.40	23.0	552.3	5156.16	50.07	1.54
-0.47	23.0	551.5	5167.75	50.12	1.53
-0.66	23.1	550.6	5180.79	50.05	1.52
-0.76	23.0	549.5	5196.75	50.12	1.51
-0.74	23.0	548.8	5206.93	50.26	1.51
-0.88	23.0	547.8	5221.48	50.26	1.50
-0.99	23.0	546.9	5234.59	50.28	1.49
-1.05	22.9	546.1	5246.26	50.35	1.48
-1.12	22.9	545.6	5253.57	50.35	1.47
-1.29	22.9	544.4	5271.11	50.35	1.46
-1.21	23.0	543.4	5285.76	50.61	1.48
-1.33	22.9	542.8	5294.56	50.57	1.46
-1.59	23.0	541.8	5309.23	50.43	1.44
-1.61	23.0	541.1	5319.52	50.53	1.44
-1.56	23.0	539.9	5337.18	50.80	1.45
-1.83	23.0	539.1	5348.98	50.61	1.42
-1.74	23.0	538.7	5354.88	50.79	1.43
-2.07	22.9	537.3	5375.56	50.63	1.39
-2.04	22.9	536.5	5387.39	50.81	1.40
-1.95	22.8	535.4	5403.70	51.11	1.41
-2.05	22.7	534.7	5414.09	51.11	1.39
-2.16	22.7	533.7	5428.95	51.15	1.38
-2.30	22.7	532.7	5443.84	51.16	1.37
-2.30	22.7	532.0	5454.27	51.28	1.37
-2.46	22.6	531.2	5466.21	51.23	1.35
-2.30	22.7	530.3	5479.66	51.57	1.38
-2.49	22.7	529.1	5497.63	51.56	1.36
-2.69	22.7	528.4	5508.12	51.44	1.34
-2.59	22.7	527.6	5520.13	51.70	1.35
-2.94	22.7	526.5	5536.66	51.47	1.32
-2.97	22.6	525.7	5548.70	51.58	1.32
-3.07	22.6	524.6	5565.28	51.65	1.31
-3.07	22.6	523.8	5577.35	51.80	1.31
-3.26	22.7	522.9	5590.95	51.73	1.30
-3.34	22.7	521.8	5607.60	51.83	1.29
-3.58	22.7	521.1	5618.21	51.66	1.27
-3.55	22.7	520.3	5630.34	51.84	1.28
-3.65	22.9	519.3	5645.53	51.90	1.28
-3.74	22.9	518.2	5662.27	51.99	1.28
-4.09	22.9	516.7	5685.13	51.83	1.25
-4.35	23.0	515.9	5697.34	51.66	1.23
-4.27	22.9	514.4	5720.27	52.03	1.24
-4.39	23.0	513.8	5729.46	52.00	1.23



### CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-4.64	23.1	513.3	5737.12	51.78	1.21
-4.48	23.1	511.9	5758.61	52.23	1.23
-4.61	23.0	511.1	5770.92	52.22	1.22
-4.71	23.0	509.8	5790.95	52.33	1.21
-4.80	23.1	509.1	5801.75	52.35	1.21
-4.89	23.2	508.6	5809.48	52.34	1.21
-5.04	23.2	506.9	5835.78	52.47	1.20
-5.09	23.3	506.8	5837.33	52.42	1.20
-5.14	23.3	505.6	5855.94	52.58	1.20
-5.40	23.3	504.9	5866.81	52.40	1.18
-5.57	23.3	504.0	5880.80	52.36	1.16
-5.58	23.4	503.0	5896.37	52.53	1.17
-5.82	23.3	501.9	5913.52	52.44	1.14
-5.91	23.3	501.2	5924.45	52.46	1.14
-5.93	23.4	500.2	5940.08	52.62	1.14
-6.13	23.4	499.1	5957.31	52.58	1.13
-6.37	23.4	498.4	5968.28	52.42	1.11
-6.46	23.4	497.6	5980.83	52.46	1.10
-6.65	23.4	496.2	6002.83	52.49	1.09
-6.57	23.4	495.5	6013.85	52.72	1.10
-6.71	23.4	494.7	6026.47	52.70	1.09
-6.79	23.5	493.8	6040.68	52.77	1.09
-6.93	23.5	492.9	6054.91	52.77	1.08
-7.13	23.5	491.9	6070.74	52.71	1.06
-7.16	23.5	490.9	6086.59	52.87	1.06
-7.24	23.4	490.2	6097.71	52.90	1.06
-7.40	23.3	489.2	6113.61	52.90	1.04
-7.49	23.3	488.4	6126.35	52.94	1.03
-7.54	23.3	487.3	6143.89	53.09	1.03
-7.61	23.3	486.5	6156.67	53.16	1.03
-7.76	23.3	485.6	6171.07	53.14	1.02
-7.76	23.3	484.7	6185.49	53.32	1.02
-8.28	23.4	483.7	6201.53	52.87	0.99
-8.54	23.4	482.9	6214.36	52.70	0.97
-8.48	23.5	481.9	6230.43	52.97	0.98
-8.39	23.6	480.9	6246.54	53.28	0.99
-8.40	23.6	480.1	6259.45	53.42	0.99
-8.48	23.6	479.0	6277.23	53.53	0.99
-8.59	23.6	478.1	6291.81	53.57	0.98
-8.63	23.6	477.2	6306.41	53.70	0.98
-8.78	23.7	476.5	6317.78	53.65	0.97
-8.95	23.8	475.4	6335.67	53.66	0.97
-9.09	23.8	474.6	6348.70	53.64	0.96
-9.09	23.8	473.4	6368.28	53.88	0.96

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.26	23.7	472.8	6378.08	53.79	0.95
-9.27	23.8	471.4	6401.00	54.05	0.95
-9.27	23.3	470.7	6412.49	54.19	0.93
-9.22	23.0	469.8	6427.28	54.43	0.93
-9.24	22.9	468.9	6442.10	54.59	0.92
-9.76	22.9	467.9	6458.59	54.14	0.89
-9.49	22.8	467.0	6473.45	54.66	0.90
-9.65	22.8	465.9	6491.65	54.68	0.90
-9.73	22.8	465.0	6506.57	54.76	0.89
-9.68	22.7	463.8	6526.51	55.07	0.89
-9.82	22.7	463.0	6539.83	55.05	0.89
-9.88	22.7	462.1	6554.83	55.16	0.88
-9.96	22.7	461.2	6569.86	55.25	0.88
-10.08	22.7	460.0	6589.94	55.34	0.87
-10.14	22.7	459.2	6603.35	55.43	0.87
-10.27	22.8	458.1	6621.82	55.49	0.87
-10.42	22.8	457.2	6636.96	55.49	0.86
-10.53	22.8	456.3	6652.11	55.54	0.85
-10.65	22.8	455.3	6668.98	55.59	0.85
-10.76	22.8	454.4	6684.19	55.64	0.84
-10.99	23.0	453.7	6696.04	55.50	0.83
-11.15	23.4	452.7	6712.97	55.50	0.84
-11.14	23.8	451.6	6731.64	55.75	0.86
-11.33	23.9	450.7	6746.94	55.69	0.85
-11.46	23.8	449.8	6762.27	55.72	0.84
-11.44	23.5	448.8	6779.32	55.95	0.83
-11.54	23.2	448.2	6789.58	55.95	0.81
-11.65	23.1	447.0	6810.11	56.07	0.81
-11.97	23.0	446.0	6827.25	55.88	0.78
-11.93	23.0	445.2	6840.99	56.10	0.79
-12.12	22.9	444.1	6859.90	56.09	0.77
-12.48	23.0	443.0	6878.85	55.87	0.76
-12.43	22.9	442.2	6892.65	56.10	0.76
-12.36	22.9	441.2	6909.94	56.40	0.76
-12.58	22.9	440.4	6923.79	56.30	0.75
-12.42	23.0	439.4	6941.15	56.71	0.77
-12.51	23.0	438.4	6958.54	56.81	0.76
-12.65	23.1	437.8	6968.99	56.77	0.76
-12.87	23.2	436.7	6988.17	56.72	0.75
-12.68	23.2	435.8	7003.91	57.16	0.76
-13.10	23.4	435.0	7017.91	56.80	0.75
-13.57	23.5	434.0	7035.42	56.42	0.72
-13.59	23.6	433.3	7047.69	56.55	0.73
-13.73	23.7	432.4	7063.49	56.57	0.72

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-13.76	23.7	431.3	7082.84	56.77	0.72
-13.99	23.8	430.4	7098.70	56.67	0.71
-14.17	24.0	429.6	7112.82	56.62	0.71
-14.28	24.0	428.5	7132.26	56.72	0.71
-14.41	24.1	427.7	7146.42	56.73	0.70
-14.63	24.1	426.7	7164.15	56.67	0.69
-14.74	24.1	425.9	7178.35	56.71	0.69
-14.82	24.2	425.2	7190.80	56.76	0.69
-14.94	24.3	424.1	7210.39	56.85	0.68
-15.20	24.3	423.2	7226.45	56.72	0.67
-15.32	24.3	422.6	7237.16	56.70	0.66
-15.50	24.5	421.5	7256.83	56.72	0.66
-15.54	25.0	420.7	7271.17	56.84	0.67
-15.80	25.3	420.2	7280.13	56.62	0.67
-15.95	25.5	419.3	7296.29	56.63	0.67
-16.32	25.7	418.3	7314.26	56.38	0.65
-16.18	26.0	417.4	7330.46	56.77	0.67
-16.09	26.3	416.6	7344.90	57.06	0.68
-16.50	26.4	415.5	7364.79	56.79	0.67
-16.69	26.6	414.9	7375.64	56.68	0.66
-16.59	26.6	414.0	7391.96	57.01	0.67
-16.65	26.5	413.2	7406.49	57.12	0.66
-17.17	26.4	412.3	7422.85	56.65	0.63
-17.03	26.2	411.7	7433.77	56.97	0.64
-17.20	26.1	410.9	7448.35	56.94	0.63
-17.23	26.0	410.5	7455.65	56.99	0.62
-17.42	26.0	409.2	7479.41	57.04	0.62
-17.49	26.0	408.3	7495.90	57.16	0.61
-17.38	26.0	407.6	7508.75	57.47	0.62
-17.73	26.1	406.7	7525.29	57.22	0.61
-17.84	26.1	406.3	7532.65	57.17	0.60
-18.01	26.1	405.3	7551.07	57.18	0.59
-18.12	26.0	404.4	7567.67	57.25	0.59
-18.02	26.1	404.2	7571.37	57.43	0.59
-18.38	26.2	402.9	7595.42	57.27	0.58
-18.32	26.2	402.0	7612.10	57.56	0.58
-18.26	26.3	401.7	7617.67	57.70	0.59
-18.67	26.3	400.7	7636.26	57.41	0.57
-18.90	26.3	400.0	7649.28	57.27	0.56
-19.04	26.4	399.2	7664.19	57.28	0.56
-19.11	26.4	398.5	7677.24	57.36	0.56
-19.36	26.4	397.7	7692.18	57.22	0.54
-19.46	26.4	397.1	7703.40	57.23	0.54
-19.56	26.5	396.3	7718.38	57.29	0.54

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-19.71	26.5	395.8	7727.75	57.22	0.53
-19.96	26.6	394.8	7746.51	57.13	0.52
-20.11	26.6	394.3	7755.91	57.05	0.52
-20.29	26.6	393.4	7772.83	57.04	0.51
-20.34	26.7	392.7	7786.02	57.14	0.51
-20.29	26.7	391.8	7803.00	57.42	0.52
-20.24	26.7	391.2	7814.35	57.63	0.52
-20.63	26.7	390.5	7827.60	57.29	0.50
-20.86	26.8	389.7	7842.76	57.18	0.50
-20.88	26.8	389.0	7856.04	57.33	0.50
-21.39	26.9	388.2	7871.23	56.85	0.48
-21.51	26.9	387.6	7882.63	56.84	0.47
-21.51	26.9	387.0	7894.05	56.99	0.47
-21.35	26.9	386.4	7905.48	57.34	0.48
-21.31	26.9	385.5	7922.68	57.62	0.48
-21.64	27.0	384.8	7936.07	57.35	0.47
-21.82	27.0	384.3	7945.64	57.24	0.46
-21.86	27.0	383.6	7959.06	57.36	0.46
-22.13	27.1	382.9	7972.49	57.18	0.46
-21.86	27.1	382.2	7985.95	57.71	0.47
-22.11	27.1	381.6	7997.50	57.53	0.46
-22.22	27.0	380.9	8010.99	57.55	0.45
-22.08	27.0	380.3	8022.58	57.89	0.46
-22.31	27.0	379.5	8038.05	57.78	0.45
-22.46	27.0	378.8	8051.61	57.76	0.45
-22.63	26.9	378.1	8065.18	57.71	0.44
-22.85	26.8	377.4	8078.77	57.60	0.43
-22.90	26.8	376.5	8096.26	57.76	0.43
-22.97	26.7	375.9	8107.95	57.81	0.42
-23.05	26.6	375.3	8119.65	57.86	0.42
-23.19	26.6	374.5	8135.27	57.88	0.42
-23.28	26.6	373.9	8147.00	57.91	0.41
-23.56	26.5	373.1	8162.66	57.74	0.40
-23.76	26.5	372.6	8172.46	57.60	0.40
-23.85	26.5	371.7	8190.12	57.71	0.39
-24.01	26.5	371.1	8201.90	57.65	0.39
-23.97	26.5	370.6	8211.74	57.83	0.39
-24.10	26.5	369.6	8231.45	57.92	0.39
-24.10	26.5	368.9	8245.27	58.10	0.39
-24.17	26.5	368.2	8259.12	58.18	0.39
-24.11	26.5	367.3	8276.96	58.49	0.39
-24.16	26.4	366.5	8292.86	58.63	0.39
-24.43	26.4	366.0	8302.81	58.40	0.38
-24.60	26.5	365.2	8318.73	58.39	0.37

### CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-24.74	26.4	364.8	8326.71	58.30	0.37
-24.87	26.4	364.0	8342.67	58.34	0.37
-24.96	26.4	363.2	8358.66	58.43	0.36
-24.96	26.4	362.4	8374.69	58.63	0.36
-24.79	26.3	361.7	8388.74	59.05	0.37
-24.84	26.2	361.0	8402.82	59.16	0.37
-24.99	26.1	360.3	8416.93	59.15	0.36
-24.93	26.1	359.5	8433.08	59.44	0.36
-24.83	26.1	358.8	8447.25	59.76	0.37
-24.96	26.0	358.1	8461.45	59.77	0.36
-24.91	26.0	356.9	8485.84	60.16	0.37
-25.14	25.9	356.4	8496.02	59.98	0.36
-25.05	25.8	355.9	8506.22	60.24	0.36
-24.88	25.6	354.9	8526.67	60.73	0.36
-24.39	25.5	354.4	8536.92	61.53	0.38
-24.32	25.4	353.6	8553.39	61.84	0.38
-24.21	25.3	352.8	8569.89	62.20	0.38
-24.48	25.3	352.2	8582.29	62.00	0.37
-24.40	25.3	351.3	8600.92	62.36	0.38
-24.60	25.2	350.5	8617.52	62.30	0.37
-24.56	25.1	349.9	8629.99	62.52	0.37
-24.62	25.1	349.1	8646.65	62.66	0.37
-24.59	25.0	348.4	8661.25	62.89	0.37
-24.31	24.9	347.6	8677.99	63.49	0.38
-24.07	24.8	346.7	8696.89	64.07	0.39
-24.08	24.7	346.1	8709.52	64.22	0.39
-24.03	24.6	345.4	8724.29	64.49	0.39
-24.33	24.6	344.4	8745.42	64.36	0.38
-24.17	24.5	343.9	8756.01	64.72	0.38
-24.55	24.5	343.0	8775.10	64.45	0.37
-24.63	24.4	342.4	8787.84	64.51	0.37
-24.71	24.5	341.6	8804.86	64.63	0.37
-24.84	24.5	340.9	8819.78	64.65	0.36
-25.17	24.4	340.1	8836.85	64.43	0.35
-25.07	24.4	339.5	8849.67	64.74	0.36
-25.26	24.5	338.6	8868.94	64.73	0.35
-25.28	24.4	337.9	8883.96	64.91	0.35
-25.56	24.5	337.3	8896.85	64.70	0.34
-25.53	24.5	336.5	8914.07	64.97	0.35
-25.71	24.5	335.9	8927.00	64.89	0.34
-25.79	24.6	335.1	8944.27	65.02	0.34
-26.00	24.6	334.2	8963.74	64.99	0.33
-26.09	24.7	333.7	8974.57	65.01	0.33
-26.25	24.8	332.9	8991.93	65.02	0.33

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-26.39	24.8	332.1	9009.32	65.06	0.33
-26.51	24.8	331.5	9022.38	65.07	0.32
-26.78	25.0	330.9	9035.45	64.88	0.32
-26.88	25.0	330.1	9052.91	64.98	0.32
-26.88	25.0	329.4	9068.21	65.18	0.32
-27.00	25.1	329.0	9076.97	65.13	0.32
-27.27	25.1	327.8	9103.29	65.12	0.31
-27.32	25.2	327.7	9105.49	65.08	0.31
-27.75	25.3	326.8	9125.26	64.75	0.30
-27.56	25.3	326.4	9134.07	65.13	0.30
-27.66	25.4	325.2	9160.55	65.35	0.30
-27.42	25.5	324.7	9171.61	65.83	0.31
-27.54	26.3	323.8	9191.57	65.93	0.32
-27.79	26.1	323.3	9202.68	65.74	0.31
-27.90	26.1	322.3	9224.93	65.89	0.31
-27.70	25.9	321.4	9245.02	66.43	0.31
-27.73	25.8	321.3	9247.25	66.42	0.31
-27.78	25.8	320.2	9271.89	66.69	0.31
-27.80	25.7	319.8	9280.87	66.78	0.31
-27.75	25.8	319.1	9296.61	67.06	0.31
-28.11	25.9	318.3	9314.64	66.81	0.30
-28.21	26.0	318.0	9321.40	66.76	0.30
-28.13	26.1	317.3	9337.20	67.09	0.31
-28.66	26.3	316.7	9350.77	66.53	0.29
-28.84	26.3	316.0	9366.60	66.50	0.29
-28.50	26.4	315.5	9377.93	67.13	0.30
-28.51	26.4	314.9	9391.57	67.30	0.30
-28.63	26.4	314.3	9405.23	67.32	0.30
-29.05	26.5	313.8	9416.61	66.89	0.29
-29.18	26.6	313.0	9434.85	66.95	0.29
-29.34	26.7	312.6	9443.98	66.85	0.28
-29.64	26.9	312.0	9457.69	66.62	0.28
-29.69	26.9	311.3	9473.70	66.77	0.28
-29.61	27.0	310.9	9482.87	67.01	0.28
-29.52	27.1	310.2	9498.94	67.35	0.29
-29.86	27.1	309.6	9512.74	67.07	0.28
-29.99	27.1	309.0	9526.55	67.07	0.27
-29.92	27.1	308.3	9542.70	67.39	0.28
-30.35	27.2	307.8	9554.25	66.95	0.27
-30.45	27.2	307.3	9565.80	66.97	0.26
-30.44	27.3	306.7	9579.69	67.17	0.27
-30.67	27.4	306.1	9593.60	67.04	0.26
-30.96	27.4	305.5	9607.52	66.82	0.26
-31.43	27.4	304.9	9621.44	66.35	0.24

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-31.71	27.4	304.4	9633.05	66.12	0.24
-31.27	27.4	303.8	9647.01	66.93	0.25
-31.12	27.4	303.1	9663.35	67.36	0.25
-31.30	27.4	302.6	9675.05	67.27	0.25
-30.79	27.3	302.1	9686.77	68.15	0.26
-31.18	27.4	301.4	9703.21	67.83	0.25
-31.43	27.5	300.9	9714.97	67.64	0.25
-31.54	27.6	300.2	9731.45	67.71	0.25
-31.88	27.7	299.6	9745.59	67.42	0.24
-32.08	27.8	299.2	9755.02	67.27	0.24
-32.26	27.9	298.7	9766.82	67.18	0.23
-32.22	28.0	298.0	9783.37	67.47	0.24
-32.31	28.1	297.5	9795.21	67.50	0.24
-32.49	28.2	296.7	9814.19	67.51	0.23
-32.76	28.4	296.0	9830.82	67.36	0.23
-32.59	28.4	295.4	9845.11	67.80	0.23
-32.81	28.5	294.8	9859.42	67.68	0.23
-32.91	28.6	294.2	9873.75	67.74	0.23
-33.05	28.7	293.5	9890.50	67.77	0.23
-33.19	28.8	292.6	9912.09	67.87	0.23
-33.05	28.9	292.0	9926.51	68.27	0.23
-32.78	28.9	291.5	9938.56	68.82	0.24
-33.25	29.0	290.9	9953.05	68.36	0.23
-33.35	29.0	290.5	9962.71	68.35	0.23
-33.46	29.1	289.8	9979.64	68.43	0.22
-33.49	29.1	289.4	9989.34	68.52	0.22
-34.06	29.2	288.8	10003.88	67.91	0.21
-33.82	29.2	287.8	10028.17	68.59	0.22
-34.12	29.2	287.6	10033.04	68.23	0.21
-34.48	28.9	287.3	10040.34	67.82	0.20
-34.82	29.1	285.2	10091.56	68.05	0.20
-34.55	28.9	285.0	10096.46	68.50	0.20
-35.76	28.6	277.9	10272.23	69.23	0.18
-35.87	28.6	277.0	10294.77	69.39	0.18
-36.71	28.6	273.8	10375.34	69.31	0.17
-36.84	28.7	272.9	10398.12	69.45	0.17
-37.42	28.7	272.0	10420.95	68.93	0.16
-37.85	28.8	271.1	10443.80	68.63	0.15
-37.72	28.9	270.6	10456.52	69.00	0.16
-37.77	29.0	270.1	10469.26	69.11	0.16
-38.15	29.2	269.0	10497.36	68.95	0.15
-38.00	29.3	268.8	10502.48	69.25	0.15
-37.95	29.4	267.8	10528.14	69.68	0.16
-38.53	29.5	267.5	10535.85	68.95	0.15

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-38.69	29.5	266.7	10556.41	69.01	0.15
-38.91	29.7	266.0	10574.44	68.94	0.14
-39.05	29.7	265.5	10587.34	68.92	0.14
-39.09	29.8	264.9	10602.84	69.09	0.14
-39.24	29.8	264.1	10623.56	69.16	0.14
-39.07	29.9	263.4	10641.74	69.67	0.14
-40.02	29.9	262.9	10654.74	68.47	0.13
-40.74	30.0	262.0	10678.10	67.75	0.12
-40.16	30.1	261.2	10698.94	68.89	0.13
-40.37	30.2	260.9	10706.77	68.70	0.13
-40.42	30.1	260.2	10725.08	68.89	0.13
-40.35	30.2	259.8	10735.56	69.14	0.13
-41.16	30.2	258.7	10764.43	68.36	0.12
-41.53	30.3	258.1	10780.18	68.05	0.11
-40.89	30.3	257.8	10788.08	69.10	0.12
-40.98	30.3	256.9	10811.85	69.31	0.12
-41.34	30.4	256.2	10830.38	69.05	0.12
-41.46	30.5	255.6	10846.29	69.10	0.12
-41.56	30.5	255.0	10862.23	69.18	0.12
-41.91	30.6	254.3	10880.85	68.93	0.11
-42.47	30.6	253.5	10902.15	68.41	0.11
-42.28	30.6	253.0	10915.49	68.89	0.11
-42.66	30.7	252.5	10928.85	68.52	0.11
-42.50	30.7	251.7	10950.27	69.07	0.11
-42.48	30.8	251.5	10955.64	69.17	0.11
-42.74	30.8	250.7	10977.14	69.10	0.11
-42.85	30.9	250.0	10995.99	69.21	0.10
-43.08	30.9	249.8	11001.38	68.95	0.10
-43.74	31.0	249.1	11020.26	68.24	0.10
-43.59	31.1	248.5	11036.46	68.70	0.10
-43.62	31.1	247.8	11055.41	68.93	0.10
-43.48	31.1	247.2	11071.71	69.38	0.10
-44.21	31.2	246.7	11085.30	68.48	0.09
-43.69	31.2	246.1	11101.64	69.50	0.10
-43.99	31.3	245.7	11112.56	69.21	0.10
-44.11	31.3	245.1	11128.95	69.27	0.09
-44.40	31.3	244.6	11142.64	69.04	0.09
-44.38	31.4	244.0	11159.08	69.31	0.09
-44.74	31.4	243.4	11175.56	69.01	0.09
-44.89	31.4	242.7	11194.81	69.07	0.09
-44.91	31.4	242.3	11205.83	69.20	0.09
-45.06	31.5	241.5	11227.92	69.30	0.09
-44.81	31.4	241.1	11238.99	69.83	0.09
-44.74	31.5	240.5	11255.65	70.18	0.09



CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-45.15	31.5	239.8	11275.12	69.85	0.09
-45.35	31.5	239.3	11289.05	69.76	0.08
-45.43	31.5	238.8	11303.00	69.84	0.08
-45.56	31.4	238.2	11319.76	69.89	0.08
-45.54	31.4	237.7	11333.76	70.13	0.08
-46.12	31.3	237.2	11347.77	69.46	0.08
-45.99	31.2	236.6	11364.61	69.90	0.08
-46.05	31.2	236.0	11381.49	70.06	0.08
-46.09	31.1	235.3	11401.24	70.29	0.08
-46.15	31.1	235.0	11409.72	70.33	0.08
-46.52	31.0	234.3	11429.52	70.06	0.07
-46.29	31.0	233.8	11443.70	70.62	0.08
-46.68	31.0	233.4	11455.07	70.20	0.07
-46.69	30.9	232.8	11472.13	70.44	0.07
-47.39	31.0	232.3	11486.36	69.58	0.07
-47.09	30.9	231.9	11497.76	70.21	0.07
-47.25	30.9	231.2	11517.76	70.26	0.07
-47.30	30.9	230.6	11534.94	70.44	0.07
-47.49	30.9	230.0	11552.16	70.41	0.07
-47.45	30.9	229.7	11560.78	70.60	0.07
-47.58	30.8	229.2	11575.17	70.61	0.07
-47.86	30.9	228.8	11586.70	70.36	0.07
-48.00	30.9	228.3	11601.12	70.36	0.06
-47.80	30.8	227.7	11618.47	70.92	0.07
-47.66	30.8	227.3	11630.08	71.31	0.07
-47.72	30.8	226.8	11644.61	71.44	0.07
-47.94	30.8	226.3	11659.17	71.32	0.07
-48.24	30.8	225.8	11673.74	71.08	0.06
-47.81	30.7	225.3	11688.35	71.95	0.07
-48.07	30.7	224.9	11700.06	71.73	0.06
-48.24	30.7	224.2	11720.60	71.78	0.06
-48.03	30.7	223.8	11732.36	72.28	0.07
-48.70	30.7	223.3	11747.08	71.47	0.06
-48.68	30.7	223.0	11755.91	71.63	0.06
-48.52	30.7	222.3	11776.58	72.19	0.06
-48.39	30.7	221.7	11794.35	72.65	0.06
-49.03	30.7	221.2	11809.19	71.89	0.06
-49.08	30.7	220.7	11824.03	72.04	0.06
-49.28	30.7	220.3	11835.92	71.91	0.06
-49.50	30.6	220.1	11841.87	71.66	0.06
-49.55	30.7	219.6	11856.76	71.81	0.06
-49.67	30.7	218.9	11877.65	71.94	0.06
-49.96	30.7	218.4	11892.60	71.71	0.05
-50.10	30.7	218.0	11904.58	71.68	0.05

CSI Profile: STA2RS05

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-50.27	30.7	217.7	11913.57	71.55	0.05
-50.40	30.7	217.4	11922.56	71.49	0.05
-50.33	30.7	216.8	11940.58	71.87	0.05
-50.45	30.8	216.1	11961.67	72.00	0.05
-51.32	30.7	215.6	11976.74	70.88	0.05
-51.33	30.7	215.2	11988.80	71.05	0.05
-51.07	30.7	214.9	11997.87	71.59	0.05
-51.17	30.8	214.7	12003.92	71.53	0.05
-51.03	30.8	213.7	12034.26	72.20	0.05
-51.18	30.8	213.5	12040.35	72.06	0.05
-51.44	30.8	213.3	12046.43	71.75	0.05
-51.41	30.8	212.8	12061.67	72.03	0.05
-51.57	30.9	212.4	12073.88	71.97	0.05
-51.69	30.8	211.6	12098.35	72.15	0.05
-51.74	30.8	211.5	12101.41	72.12	0.04
-51.78	30.8	211.0	12116.75	72.29	0.04
-52.01	30.9	210.4	12135.19	72.21	0.04
-52.04	30.9	210.1	12144.43	72.31	0.04
-52.05	30.7	209.4	12166.03	72.62	0.04
-52.81	30.9	209.3	12169.11	71.48	0.04
-52.68	30.9	209.0	12178.37	71.83	0.04
-52.53	30.8	208.7	12187.64	72.20	0.04
-52.69	30.8	208.3	12200.03	72.14	0.04
-52.86	30.9	207.9	12212.43	72.06	0.04
-52.75	30.9	207.3	12231.07	72.52	0.04
-52.70	31.0	207.0	12240.41	72.74	0.04
-52.72	30.9	206.6	12252.90	72.90	0.04
-53.27	31.0	206.5	12256.02	72.09	0.04
-53.27	30.9	206.3	12262.25	72.18	0.04
-53.06	30.9	205.8	12277.88	72.75	0.04
-53.33	31.0	205.6	12284.14	72.43	0.04
-53.39	31.0	205.0	12302.94	72.62	0.04
-53.15	31.0	204.6	12315.51	73.19	0.04
-53.34	31.0	204.3	12324.96	73.04	0.04
-53.29	31.0	204.0	12334.42	73.26	0.04
-53.61	31.0	203.5	12350.20	73.00	0.04
-53.67	31.0	203.3	12356.52	73.00	0.04
-53.93	31.0	202.9	12369.16	72.79	0.04
-53.59	31.0	202.7	12375.49	73.42	0.04
-53.88	31.0	202.5	12381.84	73.06	0.04
-54.11	31.1	202.1	12394.52	72.89	0.04
-53.94	31.1	201.7	12407.23	73.36	0.04
-54.74	31.1	201.4	12416.76	72.24	0.03
-55.08	31.1	201.0	12429.46	71.90	0.03

**CSI Profile: STA2RS05**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-55.24	31.1	200.5	12445.36	71.89	0.03
-54.83	31.1	200.1	12458.11	72.74	0.03
-55.07	31.1	199.6	12474.09	72.61	0.03
-55.14	31.1	199.2	12486.89	72.69	0.03
-54.70	31.1	199.0	12493.31	73.49	0.03
-55.03	31.1	198.6	12506.16	73.17	0.03
-55.38	31.1	197.9	12528.69	72.96	0.03
-56.04	31.2	197.5	12541.57	72.11	0.03
-55.67	31.2	197.2	12551.24	72.85	0.03
-55.57	31.2	196.8	12564.17	73.21	0.03
-55.77	31.2	196.5	12573.88	73.04	0.03
-55.75	31.2	196.2	12583.60	73.23	0.03
-56.01	31.2	195.5	12606.33	73.17	0.03
-56.47	31.3	195.2	12616.08	72.58	0.03
-57.04	31.3	195.0	12622.58	71.78	0.03
-57.34	31.3	194.6	12635.56	71.50	0.02
-57.42	31.3	194.4	12642.05	71.47	0.02
-57.39	31.3	193.8	12661.58	71.83	0.02
-57.47	31.4	193.4	12674.62	71.90	0.02
-57.23	31.4	193.0	12687.70	72.49	0.03
-57.31	31.4	192.5	12704.09	72.62	0.03
-57.34	31.4	192.1	12717.24	72.78	0.03
-57.54	31.5	191.8	12727.10	72.61	0.02
-57.62	31.4	191.4	12740.28	72.69	0.02
-57.00	31.5	191.3	12743.58	73.73	0.03
-57.25	31.5	190.9	12756.82	73.54	0.03
-57.47	31.5	190.4	12773.38	73.45	0.03
-57.89	31.5	189.9	12789.97	73.03	0.02
-57.93	31.5	189.6	12799.93	73.12	0.02
-57.35	31.6	188.9	12823.26	74.43	0.03
-57.99	31.6	188.8	12826.60	73.45	0.02



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring  
PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAR 06  
Radiosonde  Tethersonde \_\_\_\_\_  
Rawinsonde \_\_\_\_\_ Tetron \_\_\_\_\_  
Date 8/30/94 Ob Time 1852 CDT  
Site Chandeleur Island, Breton Island, LA  
Observer Blanchard

Barometric Pressure: 1018.6 mBars  
Dry-Bulb Temperature: 28.4 degrees C  
Wet-Bulb Temperature: 24.8 degrees C  
Relative Humidity: 75 percent  
Wind Speed: 10-15 est  knots mph m/s  
Wind Direction: S est degrees M T  
Sonde Battery Voltage: 9.2 VDC  
Actual Time of Launch: 1905 CDT

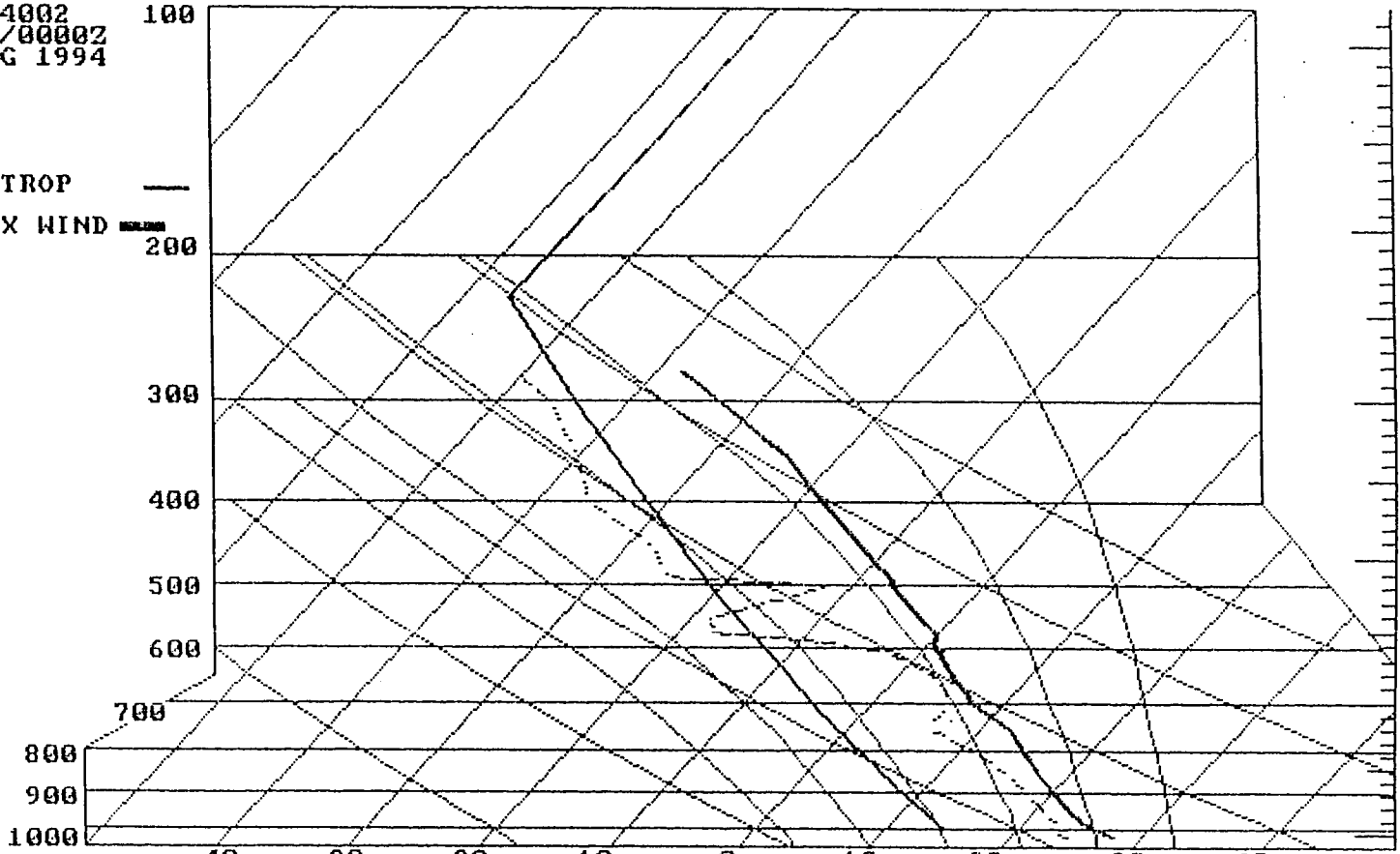
Comments: (Cloud cover, type, flight description, etc.)

H.V. 10676 R.D.V. 77.77  
Press. via A.I.R. barometer 1012.1 mb (-6.5)  
6/8 alto cumulus, cirrostratus

Additional Comments on Back

94002  
31/0000Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...  
USAF SKEW T, log p DIAGRAM

D-117

Station Number: 94002

DTG of RAOB: 31/0000Z AUG 1994

Indices	=		Sfc Data: 1019mb T= 27.6°C Td= 24.1°C	Heights	
SSI	=	-1.3	-157ft	Sfc Wind: 999/0-1kt	100mb = MISG
RO	=	-11.2			150mb = MISG
K Index	=	37.9			200mb = MISG
Lifted Index	=	-3.8			250mb = MISG
Sweat Index	=	Missing			300mb = 9700M
Total-Totals	=	46.7			400mb = 7610M
U Totals	=	24.5			500mb = 5910M
X Totals	=	22.2			700mb = 3214M
Fog SI	=	Missing			850mb = 1580M
Fog Threat	=	-0.9			1000mb = 159M
Fog Point	=	22.5°C			

Adiabatic Processes

Wet Bulb Zero	=	611mb	--	13339ft
LCL	=	968mb	23.3°C	1244ft
LFC	=	937mb	22.0°C	2141ft
CCL	=	956mb	23.0°C	1588ft
Tc	=	--	28.4°C	--
CCL E.L.	=	None		
LFC E.L.	=	None		
850mb WBPT	=	--	21.7°C	--

Thickness

500-300mb	=	3790M
700-500mb	=	2696M
850-500mb	=	4330M
850-700mb	=	1634M
1000-500mb	=	5751M
1000-700mb	=	3055M
1000-850mb	=	1421M

Inversion Layers	Type	Break	Freezing Levels
604- 602mb	13627-13710ft Subs	45.7°C	590mb 14214ft

Max Wind  
None Reported

Base	Icing Layers	Intensity
	Top	
	None	

Base	Turbulence Layers	Shear
	Top	
	None	

Trop Data  
None Reported

THREAT COLORS

Low
Moderate
High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-118

**CSI Profile: STA2RS06**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.61	81.2	1018.5	3.00	26.04	18.87
27.65	81.0	1018.2	5.62	26.10	18.87
27.30	78.1	1015.5	29.25	25.98	17.85
26.94	78.0	1013.0	51.14	25.83	17.48
26.72	78.5	1010.2	75.70	25.85	17.42
26.50	79.3	1006.5	108.23	25.95	17.43
26.25	80.3	1003.4	135.56	25.96	17.45
25.99	81.7	1000.7	159.41	25.93	17.53
25.81	80.0	998.1	182.42	25.97	17.02
25.62	79.7	995.9	201.92	25.97	16.79
25.50	80.0	994.2	217.01	26.00	16.76
25.31	81.9	992.1	235.67	25.99	17.01
25.10	82.4	990.2	252.59	25.94	16.93
24.92	83.4	988.5	267.74	25.91	16.99
24.77	85.1	986.2	288.26	25.96	17.23
24.65	84.0	984.0	307.93	26.03	16.91
24.48	85.9	982.0	325.85	26.03	17.16
24.26	88.5	980.6	338.40	25.93	17.48
24.10	89.5	978.5	357.25	25.95	17.55
23.97	89.1	976.2	377.94	26.02	17.37
23.86	88.9	973.9	398.66	26.12	17.26
23.77	88.0	972.0	415.81	26.19	17.02
23.81	86.7	970.7	427.57	26.35	16.82
23.79	90.6	969.5	438.43	26.43	17.60
23.79	90.4	968.2	450.21	26.55	17.59
23.97	86.6	966.7	463.83	26.86	17.04
24.00	86.2	965.7	472.93	26.98	17.01
23.98	87.2	964.5	483.85	27.07	17.22
23.89	88.2	963.1	496.62	27.10	17.35
23.92	80.9	962.0	506.65	27.23	15.92
23.96	77.9	960.5	520.35	27.40	15.38
23.99	74.9	959.1	533.15	27.56	14.82
24.13	72.4	957.7	545.97	27.83	14.46
24.11	72.1	956.5	556.98	27.92	14.40
24.04	72.3	955.2	568.91	27.96	14.40
23.95	72.1	953.9	580.86	27.99	14.30
23.87	71.7	952.7	591.90	28.01	14.17
23.75	72.6	951.1	606.64	28.04	14.27
23.59	74.5	949.4	622.31	28.03	14.53
23.52	74.6	948.2	633.39	28.07	14.51
23.40	74.5	946.5	649.11	28.10	14.41
23.29	74.9	945.1	662.07	28.12	14.41
23.20	75.2	943.5	676.89	28.17	14.42
23.06	75.5	941.9	691.74	28.17	14.38

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
22.92	75.8	940.7	702.89	28.14	14.33
22.84	75.8	938.9	719.63	28.23	14.29
22.75	75.9	937.8	729.87	28.23	14.24
22.67	75.9	936.4	742.92	28.28	14.19
22.58	76.1	935.2	754.12	28.30	14.17
22.45	76.4	934.0	765.32	28.28	14.13
22.34	76.9	932.8	776.54	28.28	14.15
22.23	77.2	931.3	790.57	28.30	14.13
22.14	77.5	930.7	796.19	28.27	14.12
22.04	78.1	928.6	815.88	28.36	14.17
21.91	78.6	927.5	826.21	28.33	14.17
21.78	79.7	925.7	843.13	28.36	14.28
21.67	80.3	924.5	854.42	28.36	14.31
21.55	80.9	922.7	871.38	28.41	14.35
21.43	81.3	921.6	881.76	28.39	14.33
21.32	82.1	920.5	892.14	28.38	14.39
21.21	82.6	919.2	904.43	28.39	14.40
21.16	85.0	918.1	914.83	28.44	14.80
21.07	85.4	917.0	925.25	28.45	14.81
20.99	85.2	916.0	934.73	28.46	14.71
20.88	85.4	915.1	943.27	28.44	14.66
20.79	86.1	914.0	953.71	28.45	14.72
19.67	85.5	913.4	959.40	27.35	13.63
20.67	84.4	911.7	975.53	28.54	14.35
20.59	85.9	910.5	986.95	28.57	14.56
20.51	87.7	909.3	998.39	28.61	14.81
20.40	88.3	908.5	1006.02	28.57	14.83
20.33	88.6	907.1	1019.39	28.63	14.84
20.23	88.9	906.3	1027.03	28.60	14.81
20.16	90.6	904.9	1040.43	28.66	15.06
20.07	91.1	903.9	1050.01	28.67	15.07
20.10	89.7	902.6	1062.47	28.82	14.89
20.11	88.9	901.6	1072.07	28.93	14.78
20.10	87.8	900.0	1087.45	29.07	14.61
20.12	86.8	898.8	1099.01	29.21	14.47
20.04	86.5	897.0	1116.36	29.30	14.38
19.95	86.0	895.1	1134.71	29.39	14.24
19.87	85.7	893.3	1152.13	29.48	14.15
19.72	85.8	891.4	1170.54	29.51	14.06
19.63	84.9	889.9	1185.10	29.56	13.86
19.63	83.6	888.3	1200.65	29.72	13.67
19.59	83.3	887.0	1213.30	29.80	13.60
19.56	83.1	885.6	1226.95	29.91	13.56
19.46	83.1	884.4	1238.66	29.92	13.50



CSI:Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
19.43	82.6	883.3	1249.40	30.00	13.41
19.37	82.2	881.8	1264.08	30.09	13.31
19.36	81.0	881.3	1268.97	30.12	13.11
19.50	79.9	879.6	1285.64	30.44	13.07
19.52	79.0	878.3	1298.41	30.59	12.96
19.56	78.2	877.5	1306.27	30.71	12.87
19.47	78.1	876.2	1319.07	30.74	12.80
19.31	78.1	874.4	1336.82	30.75	12.69
19.20	78.1	872.9	1351.63	30.79	12.63
19.05	78.1	871.5	1365.46	30.77	12.53
18.97	78.2	870.2	1378.33	30.82	12.50
18.85	78.5	868.8	1392.19	30.83	12.47
18.72	78.8	867.1	1409.06	30.87	12.44
18.59	79.0	865.8	1421.97	30.86	12.39
18.48	79.1	864.4	1435.89	30.89	12.34
18.39	79.3	863.0	1449.83	30.94	12.32
18.27	79.8	862.1	1458.80	30.90	12.32
18.15	80.3	861.0	1469.76	30.89	12.32
18.06	80.4	859.9	1480.74	30.91	12.28
17.99	80.6	859.2	1487.74	30.90	12.27
18.00	81.4	858.0	1499.74	31.04	12.42
17.85	81.6	856.7	1512.75	31.01	12.35
17.71	82.5	854.8	1531.80	31.06	12.40
17.57	84.0	853.2	1547.87	31.07	12.55
17.43	85.5	852.3	1556.92	31.02	12.67
17.35	86.0	851.2	1567.98	31.05	12.70
17.23	86.4	850.0	1580.07	31.05	12.68
17.15	88.5	848.8	1592.17	31.08	12.95
17.12	89.7	847.5	1605.29	31.19	13.12
17.02	90.0	846.4	1616.41	31.19	13.10
16.94	90.3	845.5	1625.52	31.20	13.09
16.88	90.8	844.8	1632.61	31.21	13.12
16.86	90.9	844.1	1639.70	31.26	13.13
16.71	91.3	841.6	1665.07	31.36	13.10
16.60	91.4	841.0	1671.17	31.31	13.03
16.55	91.5	839.9	1682.36	31.37	13.02
16.49	91.7	839.0	1691.52	31.40	13.02
16.43	91.8	838.2	1699.67	31.42	12.99
16.43	91.6	837.0	1711.91	31.55	12.98
16.40	91.4	836.2	1720.08	31.60	12.94
16.38	91.3	835.4	1728.25	31.66	12.92
16.32	91.2	834.5	1737.46	31.69	12.87
16.28	91.1	833.8	1744.62	31.72	12.83
16.29	90.3	832.5	1757.95	31.87	12.75

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.25	89.6	831.8	1765.13	31.90	12.63
16.27	89.0	831.0	1773.34	32.01	12.57
16.24	88.6	830.1	1782.59	32.07	12.50
16.17	88.4	829.2	1791.85	32.09	12.43
16.09	88.3	828.4	1800.08	32.09	12.36
16.03	88.3	827.5	1809.35	32.12	12.33
15.97	88.2	826.9	1815.54	32.12	12.27
15.90	88.3	826.3	1821.72	32.11	12.24
15.84	88.3	825.2	1833.08	32.16	12.21
15.78	88.3	824.5	1840.31	32.17	12.17
15.76	87.7	823.8	1847.54	32.23	12.08
15.73	87.9	823.2	1853.75	32.26	12.10
15.71	88.3	822.2	1864.10	32.34	12.15
15.68	88.7	821.3	1873.43	32.41	12.20
15.61	89.0	820.4	1882.77	32.43	12.20
15.54	89.0	819.8	1889.00	32.42	12.15
15.49	89.0	819.2	1895.23	32.43	12.12
15.46	88.5	818.3	1904.58	32.50	12.04
15.45	88.0	817.4	1913.95	32.58	11.98
15.45	86.5	816.5	1923.32	32.68	11.78
15.45	85.9	815.9	1929.57	32.74	11.71
15.39	85.7	815.3	1935.83	32.74	11.64
15.33	85.9	814.6	1943.14	32.75	11.64
15.28	86.4	813.7	1952.53	32.80	11.68
15.23	87.3	812.8	1961.94	32.84	11.78
15.24	85.6	812.3	1967.17	32.91	11.56
15.26	84.0	811.4	1976.60	33.02	11.37
15.23	83.5	810.7	1983.93	33.07	11.29
15.17	83.4	809.9	1992.32	33.09	11.24
15.11	83.3	809.2	1999.67	33.10	11.19
15.03	83.2	808.0	2012.27	33.15	11.14
14.96	83.1	807.2	2020.69	33.16	11.08
12.04	82.4	806.3	2030.10	30.15	9.07
14.83	83.1	805.6	2037.43	33.20	11.01
14.78	83.2	804.3	2051.14	33.28	11.01
14.68	83.3	803.8	2056.41	33.23	10.95
14.60	83.9	802.8	2066.97	33.26	10.99
14.62	80.1	801.1	2084.94	33.46	10.52
14.66	79.3	799.7	2099.77	33.66	10.46
14.68	79.0	798.6	2111.44	33.80	10.45
14.57	79.8	797.9	2118.87	33.76	10.49
14.50	80.3	796.8	2130.56	33.81	10.52
14.44	79.8	796.0	2139.07	33.83	10.43
14.39	79.8	795.2	2147.59	33.87	10.40

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
14.34	79.8	794.7	2152.92	33.87	10.37
14.25	79.8	793.5	2165.71	33.91	10.33
14.19	79.8	793.0	2171.05	33.90	10.29
14.13	79.5	792.0	2181.72	33.94	10.23
14.05	79.6	791.0	2192.41	33.97	10.20
13.99	79.6	790.6	2196.69	33.95	10.17
13.91	79.1	789.6	2207.39	33.97	10.06
13.85	78.8	788.9	2214.89	33.99	9.99
13.79	78.2	787.9	2225.61	34.04	9.89
13.77	75.9	787.3	2232.04	34.08	9.59
13.73	76.5	786.5	2240.63	34.13	9.65
13.66	78.5	785.7	2249.23	34.14	9.87
13.55	83.1	784.7	2259.98	34.14	10.39
13.45	85.1	784.0	2267.52	34.11	10.59
13.37	84.9	783.3	2275.06	34.10	10.52
13.32	84.5	782.2	2286.92	34.17	10.45
13.25	83.3	781.6	2293.39	34.16	10.26
13.24	79.9	780.7	2303.11	34.25	9.84
13.25	77.8	779.6	2315.00	34.39	9.59
13.21	77.3	779.0	2321.49	34.41	9.51
13.15	77.1	777.8	2334.48	34.48	9.46
13.08	77.0	777.0	2343.16	34.50	9.42
13.03	76.9	776.0	2354.01	34.56	9.39
12.96	76.8	775.2	2362.70	34.57	9.34
12.96	76.8	774.2	2373.57	34.69	9.35
12.96	77.0	773.4	2382.27	34.78	9.39
12.88	77.1	772.3	2394.26	34.82	9.36
12.87	76.2	771.3	2405.17	34.92	9.26
12.82	75.9	770.4	2415.00	34.97	9.20
12.79	73.8	769.4	2425.93	35.05	8.94
12.80	70.4	768.4	2436.87	35.18	8.54
12.79	69.7	767.5	2446.73	35.27	8.46
12.77	69.0	766.5	2457.70	35.36	8.37
12.72	67.2	765.5	2468.68	35.42	8.13
12.69	66.6	764.4	2480.77	35.52	8.05
12.64	66.8	763.3	2492.88	35.59	8.06
12.57	66.7	762.7	2499.49	35.59	8.02
12.49	66.8	761.7	2510.51	35.62	8.00
12.42	66.8	760.7	2521.55	35.66	7.97
12.34	66.8	759.6	2533.70	35.70	7.94
12.26	67.1	758.7	2543.66	35.72	7.95
12.18	67.1	757.6	2555.83	35.76	7.92
12.14	66.7	756.7	2565.81	35.82	7.86
12.10	66.5	755.8	2575.79	35.88	7.82

**CSI Profile: STA2RS06**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
12.04	66.4	754.8	2586.90	35.93	7.79
11.96	66.3	753.6	2600.24	35.99	7.75
11.88	66.6	752.7	2610.26	36.01	7.75
11.88	65.4	751.7	2621.40	36.12	7.62
11.88	65.8	750.8	2631.45	36.23	7.68
11.86	66.1	749.7	2643.73	36.34	7.71
11.82	66.6	749.1	2650.45	36.36	7.76
11.74	67.3	747.7	2666.12	36.44	7.81
11.64	68.1	746.6	2678.45	36.46	7.87
11.52	69.2	745.8	2687.43	36.43	7.94
11.45	68.8	744.7	2699.79	36.48	7.87
11.36	67.9	743.7	2711.03	36.50	7.73
11.24	70.5	742.7	2722.29	36.49	7.97
11.14	70.3	741.9	2731.30	36.48	7.91
11.03	70.8	741.0	2741.45	36.47	7.91
10.92	71.1	739.9	2753.87	36.48	7.90
10.82	73.3	738.5	2769.69	36.54	8.11
10.69	74.8	737.9	2776.48	36.47	8.21
10.54	81.2	736.9	2787.80	36.42	8.85
10.45	78.9	735.8	2800.27	36.46	8.55
10.33	81.0	734.8	2811.61	36.45	8.73
10.20	83.6	733.5	2826.38	36.46	8.95
10.14	82.6	732.9	2833.21	36.47	8.81
10.07	83.9	732.0	2843.45	36.50	8.92
10.03	83.9	731.1	2853.70	36.57	8.91
9.98	83.7	730.2	2863.97	36.62	8.87
9.95	83.4	729.1	2876.53	36.72	8.83
9.87	83.5	728.5	2883.38	36.71	8.80
9.81	82.8	727.1	2899.40	36.81	8.71
9.74	83.4	726.0	2912.01	36.87	8.74
9.65	83.6	725.4	2918.89	36.84	8.72
9.60	83.3	724.4	2930.37	36.91	8.67
9.54	83.2	723.2	2944.16	36.99	8.64
9.44	84.4	722.4	2953.37	36.98	8.71
9.35	85.6	721.4	2964.88	37.01	8.80
9.28	83.3	720.5	2975.26	37.04	8.53
9.20	82.2	719.4	2987.95	37.09	8.38
9.14	80.2	718.4	2999.51	37.14	8.15
9.06	79.7	717.4	3011.07	37.18	8.07
8.95	79.8	716.6	3020.33	37.16	8.03
8.86	80.1	715.7	3030.76	37.17	8.02
8.77	81.6	714.5	3044.67	37.22	8.13
8.68	82.6	713.8	3052.80	37.21	8.19
8.61	84.1	712.8	3064.42	37.26	8.31

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
8.51	84.7	711.8	3076.06	37.27	8.33
8.40	85.6	710.8	3087.71	37.27	8.37
8.30	86.3	710.3	3093.53	37.23	8.38
8.20	87.6	708.9	3109.87	37.29	8.47
8.10	88.2	708.1	3119.21	37.28	8.48
8.01	88.5	707.5	3126.23	37.26	8.46
7.90	89.0	706.6	3136.75	37.25	8.46
7.81	89.4	705.8	3146.12	37.25	8.45
7.75	90.2	704.7	3159.01	37.32	8.51
7.67	90.2	703.5	3173.10	37.38	8.48
7.61	89.6	703.0	3178.97	37.38	8.39
7.52	89.7	702.1	3189.55	37.40	8.36
7.41	89.8	701.1	3201.32	37.40	8.32
7.30	90.2	700.0	3214.27	37.42	8.30
7.20	90.3	698.9	3227.25	37.45	8.27
7.09	90.5	698.3	3234.33	37.40	8.23
6.99	91.2	697.4	3244.96	37.41	8.25
6.90	91.9	696.5	3255.60	37.42	8.27
6.80	92.7	695.6	3266.25	37.42	8.30
6.72	93.6	694.7	3276.91	37.45	8.35
6.69	95.1	693.6	3289.96	37.56	8.48
6.70	95.3	693.0	3297.08	37.65	8.51
6.71	95.1	692.0	3308.97	37.79	8.51
6.66	95.0	691.6	3313.73	37.78	8.47
6.60	94.9	690.6	3325.64	37.84	8.44
6.55	94.9	689.6	3337.57	37.92	8.43
6.48	94.7	688.7	3348.32	37.96	8.38
6.42	94.7	688.1	3355.49	37.97	8.35
6.34	94.7	687.1	3367.44	38.01	8.32
6.27	94.6	686.4	3375.82	38.02	8.27
6.19	94.6	685.5	3386.61	38.05	8.24
6.11	94.7	684.8	3395.00	38.05	8.21
6.04	94.6	683.9	3405.80	38.09	8.17
5.97	94.6	683.2	3414.21	38.10	8.14
5.92	94.5	682.5	3422.63	38.14	8.11
5.85	94.3	681.7	3432.26	38.16	8.06
5.78	94.3	681.0	3440.69	38.18	8.03
5.74	94.3	680.1	3451.54	38.25	8.02
5.71	94.1	679.5	3458.78	38.29	7.99
5.66	94.1	678.6	3469.65	38.36	7.98
5.59	94.0	678.1	3475.69	38.34	7.94
5.54	94.0	677.3	3485.37	38.39	7.92
5.48	93.9	676.5	3495.05	38.43	7.88
5.45	93.8	675.8	3503.54	38.49	7.87

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.39	93.6	675.0	3513.24	38.53	7.83
5.34	93.5	674.3	3521.74	38.56	7.80
5.27	93.4	673.5	3531.46	38.59	7.76
5.21	93.4	672.9	3538.76	38.60	7.74
5.14	93.5	672.2	3547.28	38.62	7.71
5.09	93.5	671.4	3557.02	38.67	7.70
5.06	93.5	671.1	3560.68	38.68	7.68
5.06	93.4	670.1	3572.88	38.81	7.69
5.04	93.4	669.5	3580.21	38.87	7.68
5.01	93.4	669.0	3586.32	38.90	7.67
4.96	93.4	668.2	3596.11	38.95	7.65
4.90	93.3	667.6	3603.45	38.96	7.62
4.87	93.3	667.0	3610.80	39.01	7.61
4.89	93.3	666.5	3616.94	39.10	7.63
4.90	93.6	665.7	3626.76	39.22	7.67
4.91	93.7	665.1	3634.13	39.31	7.69
4.90	93.9	664.6	3640.28	39.36	7.71
4.89	93.7	663.8	3650.13	39.46	7.69
4.87	93.5	663.4	3655.06	39.49	7.67
4.82	93.4	662.9	3661.22	39.50	7.64
4.80	93.3	662.2	3669.86	39.58	7.63
4.80	93.1	661.4	3679.74	39.68	7.62
4.75	92.8	661.0	3684.68	39.68	7.58
4.72	92.7	660.3	3693.34	39.74	7.56
4.71	92.6	659.8	3699.53	39.80	7.55
4.65	92.5	659.0	3709.44	39.84	7.52
4.59	92.5	658.2	3719.36	39.88	7.50
4.54	92.5	657.8	3724.33	39.88	7.48
4.49	92.5	657.4	3729.29	39.88	7.45
4.46	92.6	656.4	3741.72	39.98	7.46
4.38	92.7	655.8	3749.18	39.97	7.43
4.32	92.7	655.3	3755.41	39.97	7.40
4.26	92.7	654.7	3762.88	39.99	7.38
4.20	92.6	654.1	3770.36	40.00	7.35
4.16	92.5	653.6	3776.59	40.02	7.32
4.10	92.5	652.7	3787.83	40.08	7.30
4.05	93.4	652.1	3795.32	40.11	7.36
3.98	92.6	651.5	3802.82	40.11	7.26
3.95	92.5	650.8	3811.58	40.17	7.25
3.94	92.2	650.2	3819.10	40.24	7.22
3.96	91.7	649.6	3826.62	40.35	7.20
3.96	91.2	648.9	3835.40	40.45	7.17
3.96	91.2	648.1	3845.45	40.56	7.18
3.89	91.3	647.5	3852.99	40.56	7.16

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.80	91.4	646.8	3861.80	40.55	7.13
3.71	91.5	645.9	3873.14	40.58	7.10
3.68	92.4	645.1	3883.22	40.65	7.16
3.63	92.9	644.5	3890.80	40.68	7.19
3.62	93.1	643.7	3900.90	40.78	7.20
3.61	93.4	643.3	3905.96	40.83	7.23
3.57	93.7	642.5	3916.09	40.89	7.24
3.53	93.7	641.9	3923.69	40.93	7.23
3.51	93.4	641.4	3930.02	40.98	7.20
3.46	93.1	640.6	3940.17	41.03	7.16
3.54	92.8	639.8	3950.34	41.24	7.18
3.57	92.1	638.8	3963.06	41.41	7.16
3.56	91.5	638.4	3968.16	41.46	7.11
3.50	91.2	637.3	3982.19	41.54	7.07
3.48	90.7	636.7	3989.85	41.61	7.02
3.43	90.4	636.1	3997.51	41.63	6.98
3.38	90.1	635.9	4000.07	41.61	6.94
3.31	90.0	634.8	4014.14	41.68	6.91
3.23	90.0	633.8	4026.95	41.73	6.88
3.17	90.0	633.5	4030.79	41.71	6.85
3.13	90.4	632.8	4039.77	41.76	6.87
3.01	90.4	632.4	4044.91	41.68	6.82
2.96	90.2	631.3	4059.04	41.78	6.79
2.92	89.9	630.8	4065.47	41.81	6.75
2.90	89.8	630.0	4075.76	41.90	6.74
2.87	89.8	629.4	4083.49	41.95	6.73
2.81	89.6	628.4	4096.39	42.02	6.70
2.76	89.4	627.7	4105.43	42.07	6.67
2.68	89.5	627.5	4108.01	42.00	6.64
2.59	89.6	626.2	4124.82	42.09	6.62
2.55	89.4	624.9	4141.66	42.23	6.60
2.39	89.7	624.1	4152.04	42.16	6.55
2.30	89.9	623.2	4163.72	42.19	6.54
2.19	89.9	622.2	4176.72	42.21	6.50
2.07	89.9	621.5	4185.83	42.17	6.45
1.98	90.1	620.5	4198.85	42.22	6.43
1.89	90.5	619.9	4206.67	42.20	6.42
1.83	89.7	619.1	4217.10	42.25	6.35
1.84	88.2	618.3	4227.55	42.38	6.25
1.80	87.3	617.6	4236.70	42.43	6.18
1.74	86.9	617.1	4243.25	42.44	6.13
1.71	86.6	616.2	4255.03	42.53	6.10
1.68	86.8	615.7	4261.59	42.57	6.11
1.69	87.1	615.3	4266.83	42.64	6.14

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
1.70	87.6	614.4	4278.65	42.79	6.19
1.68	87.5	613.7	4287.86	42.87	6.18
1.60	87.7	613.2	4294.44	42.85	6.16
1.53	87.6	612.5	4303.66	42.87	6.13
1.50	86.1	611.6	4315.53	42.97	6.02
1.49	84.1	611.1	4322.12	43.03	5.88
1.46	82.8	610.4	4331.37	43.10	5.78
1.39	82.0	609.4	4344.59	43.17	5.70
1.34	81.6	609.0	4349.89	43.17	5.66
1.27	81.5	608.3	4359.16	43.19	5.63
1.19	81.4	607.9	4364.46	43.16	5.59
1.16	80.3	607.2	4373.74	43.23	5.51
1.14	78.4	606.7	4380.38	43.28	5.38
1.08	77.5	605.7	4393.67	43.36	5.30
1.04	76.3	605.3	4398.99	43.37	5.21
1.00	74.9	604.3	4412.30	43.48	5.10
1.00	73.0	603.6	4421.63	43.58	4.98
1.14	66.5	602.7	4433.64	43.88	4.59
1.26	62.3	602.5	4436.31	44.05	4.33
1.26	62.1	601.8	4445.67	44.15	4.32
1.21	60.6	600.6	4461.75	44.28	4.21
1.17	60.1	599.8	4472.48	44.35	4.17
1.10	60.5	599.2	4480.53	44.36	4.18
1.02	59.8	598.5	4489.94	44.38	4.11
0.97	59.7	597.8	4499.35	44.42	4.10
0.88	59.9	596.9	4511.47	44.46	4.09
0.82	59.9	596.6	4515.51	44.43	4.07
0.73	60.0	595.6	4529.00	44.48	4.06
0.63	60.2	594.7	4541.15	44.50	4.05
0.55	60.7	594.3	4546.55	44.47	4.06
0.47	60.5	593.8	4553.31	44.45	4.03
0.39	60.7	593.3	4560.08	44.44	4.02
0.33	60.8	592.3	4573.61	44.52	4.02
0.24	60.8	592.1	4576.32	44.45	4.00
0.17	60.9	591.1	4589.88	44.52	3.99
0.09	60.9	590.6	4596.67	44.50	3.97
0.01	60.8	589.9	4606.18	44.52	3.94
-0.03	60.5	589.2	4615.69	44.58	3.92
-0.09	60.3	589.0	4618.41	44.54	3.89
-0.12	59.6	588.0	4632.02	44.66	3.84
-0.15	58.6	587.6	4637.48	44.69	3.77
-0.14	56.2	586.5	4652.48	44.87	3.62
-0.12	54.9	585.9	4660.68	44.99	3.55
-0.07	52.2	585.4	4667.52	45.12	3.39



CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-0.11	52.6	584.7	4677.10	45.18	3.41
-0.13	53.3	584.1	4685.33	45.25	3.45
-0.15	51.4	583.1	4699.05	45.39	3.33
-0.13	51.1	582.7	4704.54	45.47	3.32
-0.25	50.4	582.1	4712.79	45.43	3.25
-0.25	49.3	581.4	4722.42	45.54	3.18
-0.28	48.8	580.3	4737.58	45.67	3.15
-0.31	44.7	580.1	4740.34	45.67	2.88
-0.36	42.8	579.4	4749.99	45.72	2.75
-0.39	41.0	578.6	4761.04	45.81	2.63
-0.40	34.9	578.1	4767.96	45.88	2.24
-0.45	34.1	577.4	4777.64	45.93	2.18
-0.48	33.8	576.4	4791.50	46.06	2.16
-0.51	33.3	576.1	4795.66	46.07	2.12
-0.52	31.5	575.6	4802.60	46.14	2.01
-0.53	29.5	574.5	4817.88	46.30	1.88
-0.55	26.7	574.1	4823.44	46.34	1.70
-0.53	25.3	573.4	4833.19	46.47	1.62
-0.59	30.3	572.8	4841.55	46.50	1.93
-0.64	31.3	572.3	4848.53	46.52	1.99
-0.73	32.8	571.2	4863.89	46.59	2.08
-0.82	33.3	570.6	4872.28	46.58	2.10
-0.93	37.6	570.2	4877.88	46.52	2.35
-1.08	47.9	569.3	4890.48	46.48	2.97
-1.20	54.6	568.7	4898.89	46.44	3.36
-1.32	59.7	568.1	4907.31	46.39	3.65
-1.38	56.2	567.6	4914.33	46.40	3.42
-1.43	54.1	566.9	4924.17	46.46	3.28
-1.47	53.0	566.1	4935.42	46.54	3.21
-1.54	51.3	565.7	4941.05	46.52	3.09
-1.53	43.6	564.9	4952.32	46.66	2.63
-1.56	44.1	564.3	4960.79	46.73	2.66
-1.61	46.0	563.5	4972.08	46.80	2.77
-1.68	43.9	563.3	4974.91	46.75	2.63
-1.67	33.2	562.4	4987.63	46.91	1.99
-1.62	26.1	561.8	4996.13	47.06	1.57
-1.60	24.2	561.0	5007.46	47.22	1.46
-1.63	24.0	560.4	5015.98	47.28	1.45
-1.67	23.9	559.6	5027.34	47.36	1.44
-1.73	23.9	558.9	5037.29	47.41	1.43
-1.78	23.8	558.3	5045.83	47.45	1.42
-1.84	23.6	557.8	5052.96	47.46	1.41
-1.91	23.7	557.1	5062.94	47.49	1.41
-1.93	25.7	556.7	5068.64	47.53	1.53

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-2.03	28.6	555.9	5080.07	47.55	1.69
-2.14	33.3	555.3	5088.65	47.51	1.95
-2.24	34.7	554.8	5095.80	47.48	2.02
-2.33	36.2	554.0	5107.26	47.50	2.10
-2.43	37.9	553.4	5115.86	47.49	2.18
-2.50	36.8	552.9	5123.03	47.49	2.11
-2.57	35.7	551.9	5137.39	47.57	2.04
-2.60	31.3	551.6	5141.70	47.58	1.79
-2.61	29.7	550.8	5153.20	47.70	1.70
-2.63	28.7	550.4	5158.96	47.75	1.64
-2.68	28.1	549.5	5171.93	47.84	1.60
-2.74	27.9	549.0	5179.15	47.85	1.58
-2.81	26.8	548.5	5186.37	47.85	1.51
-2.86	25.6	547.7	5197.92	47.93	1.44
-2.87	23.4	547.3	5203.71	47.98	1.32
-2.86	23.3	546.8	5210.95	48.08	1.31
-2.89	23.5	546.0	5222.54	48.18	1.32
-2.92	23.3	545.1	5235.60	48.29	1.31
-2.94	23.0	544.6	5242.87	48.35	1.29
-3.06	26.0	543.5	5258.87	48.39	1.45
-3.15	28.1	543.0	5266.15	48.37	1.56
-3.22	28.2	542.5	5273.44	48.37	1.56
-3.28	29.3	541.9	5282.19	48.40	1.62
-3.33	29.4	541.1	5293.87	48.48	1.62
-3.41	29.2	540.7	5299.71	48.45	1.60
-3.43	28.7	539.4	5318.74	48.65	1.57
-3.56	28.0	538.9	5326.07	48.58	1.52
-3.57	27.4	538.2	5336.33	48.69	1.49
-3.57	26.6	537.7	5343.67	48.77	1.45
-3.58	27.4	537.2	5351.02	48.85	1.49
-3.62	32.6	536.5	5361.32	48.92	1.77
-3.69	34.9	535.9	5370.16	48.94	1.89
-3.80	36.2	535.1	5381.95	48.95	1.95
-3.88	37.4	534.4	5392.28	48.97	2.00
-3.99	37.6	534.0	5398.19	48.91	2.00
-4.07	38.1	533.8	5401.15	48.85	2.01
-4.16	39.0	532.9	5414.45	48.89	2.05
-4.25	38.8	531.5	5435.19	49.03	2.03
-4.32	40.2	531.4	5436.67	48.96	2.09
-4.39	39.0	530.8	5445.57	48.98	2.02
-4.44	37.5	530.1	5455.96	49.04	1.94
-4.30	35.0	529.6	5463.39	49.30	1.83
-4.27	34.8	529.0	5472.33	49.44	1.83
-4.23	34.4	528.7	5476.80	49.54	1.81

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-4.28	34.2	527.1	5500.68	49.76	1.80
-4.35	33.8	526.4	5511.15	49.80	1.77
-4.41	33.6	525.9	5518.63	49.81	1.76
-4.47	33.7	524.8	5535.12	49.94	1.76
-4.55	36.9	524.6	5538.12	49.87	1.91
-4.64	47.9	524.3	5542.62	49.82	2.47
-4.71	47.0	523.8	5550.13	49.82	2.41
-4.77	48.2	523.0	5562.16	49.89	2.47
-4.85	48.7	522.4	5571.19	49.90	2.48
-4.93	48.0	521.9	5578.72	49.89	2.43
-4.98	47.2	521.5	5584.75	49.90	2.38
-5.04	45.7	520.7	5596.81	49.97	2.30
-5.10	43.9	520.1	5605.87	50.01	2.20
-5.20	43.8	519.7	5611.92	49.96	2.18
-5.28	43.5	519.5	5614.94	49.90	2.16
-5.33	43.5	518.5	5630.07	50.02	2.15
-5.41	43.3	518.0	5637.64	50.01	2.13
-5.48	42.3	517.5	5645.22	50.01	2.07
-5.54	42.5	517.0	5652.80	50.03	2.07
-5.58	42.1	516.7	5657.35	50.04	2.05
-5.59	40.3	516.2	5664.94	50.11	1.96
-5.57	39.2	515.4	5677.11	50.28	1.91
-5.61	39.4	515.0	5683.19	50.30	1.92
-5.59	40.3	514.2	5695.38	50.47	1.97
-5.65	48.1	513.6	5704.54	50.51	2.34
-5.72	42.1	513.0	5713.70	50.53	2.04
-5.76	40.1	512.5	5721.34	50.57	1.94
-5.82	40.0	512.0	5728.99	50.59	1.93
-5.83	39.0	511.4	5738.18	50.69	1.88
-5.87	39.7	511.0	5744.31	50.71	1.91
-5.96	40.9	510.3	5755.04	50.73	1.96
-6.04	45.7	509.9	5761.18	50.70	2.18
-6.11	49.9	509.6	5765.79	50.67	2.37
-6.14	56.9	508.8	5778.09	50.78	2.70
-6.15	62.5	508.2	5787.33	50.88	2.97
-6.25	62.6	507.8	5793.49	50.83	2.95
-6.31	62.8	507.2	5802.74	50.87	2.95
-6.38	63.5	507.1	5804.29	50.80	2.97
-6.49	63.3	506.2	5818.18	50.83	2.94
-6.53	63.5	505.7	5825.91	50.88	2.94
-6.57	63.2	505.2	5833.64	50.92	2.92
-6.69	63.1	504.2	5849.13	50.96	2.89
-6.87	64.1	503.7	5856.88	50.83	2.90
-6.92	64.3	502.9	5869.29	50.92	2.91

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.00	65.1	502.4	5877.05	50.91	2.93
-7.08	66.2	502.0	5883.27	50.89	2.96
-7.16	66.4	501.7	5887.93	50.84	2.95
-7.25	69.5	500.8	5901.93	50.90	3.07
-7.34	71.2	500.3	5909.72	50.88	3.13
-7.42	71.8	499.7	5919.07	50.90	3.14
-7.48	71.5	499.4	5923.75	50.88	3.12
-7.55	72.2	498.9	5931.56	50.89	3.13
-7.62	73.1	498.2	5942.49	50.93	3.16
-7.68	72.6	497.7	5950.31	50.95	3.13
-7.74	70.1	497.2	5958.14	50.97	3.01
-7.77	65.0	496.6	5967.53	51.05	2.78
-7.81	56.1	496.0	5976.94	51.11	2.40
-7.80	48.4	495.5	5984.78	51.22	2.07
-7.82	43.4	494.9	5994.20	51.30	1.86
-7.85	41.5	494.6	5998.92	51.32	1.77
-7.89	38.4	493.9	6009.93	51.41	1.64
-7.94	36.2	493.5	6016.22	51.42	1.54
-7.92	28.0	492.9	6025.68	51.56	1.19
-7.91	24.8	492.6	6030.41	51.63	1.06
-7.92	22.9	491.9	6041.45	51.75	0.98
-7.94	22.7	491.4	6049.35	51.82	0.97
-7.98	25.9	490.7	6060.43	51.90	1.10
-8.04	27.2	490.2	6068.35	51.92	1.15
-8.12	26.9	489.6	6077.85	51.94	1.13
-8.20	28.6	489.2	6084.20	51.92	1.20
-8.25	27.6	488.7	6092.14	51.95	1.15
-8.30	26.1	487.9	6104.85	52.04	1.09
-8.35	27.6	487.5	6111.21	52.06	1.15
-8.46	29.0	487.2	6115.98	51.98	1.20
-8.55	35.9	486.3	6130.32	52.04	1.47
-8.70	42.6	485.8	6138.29	51.95	1.73
-8.73	38.3	485.0	6151.06	52.07	1.56
-8.72	46.0	484.5	6159.05	52.17	1.87
-8.73	43.7	483.8	6170.26	52.30	1.78
-8.72	37.5	483.1	6181.48	52.44	1.53
-8.79	37.0	482.8	6186.29	52.42	1.50
-8.85	38.5	482.0	6199.13	52.50	1.56
-8.90	38.2	481.3	6210.38	52.57	1.54
-8.94	36.3	480.7	6220.04	52.64	1.46
-9.01	35.3	480.4	6224.87	52.61	1.42
-9.08	34.9	479.6	6237.77	52.68	1.39
-9.14	32.1	479.3	6242.61	52.66	1.28
-9.17	24.7	478.4	6257.14	52.80	0.98

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.19	20.9	478.0	6263.61	52.85	0.83
-9.24	22.0	477.1	6278.18	52.97	0.87
-9.33	26.4	476.2	6292.77	53.03	1.04
-9.41	27.0	475.8	6299.26	53.01	1.06
-9.50	26.7	475.2	6309.01	53.02	1.04
-9.55	25.6	474.5	6320.39	53.09	1.00
-9.60	23.9	473.9	6330.16	53.15	0.93
-9.67	24.0	473.2	6341.57	53.20	0.93
-9.77	24.0	472.7	6349.73	53.18	0.92
-9.84	23.0	472.1	6359.52	53.21	0.88
-9.90	21.5	471.3	6372.60	53.29	0.82
-9.93	21.0	471.1	6375.87	53.29	0.80
-10.01	20.9	470.1	6392.25	53.39	0.79
-10.09	20.6	469.6	6400.45	53.39	0.78
-10.17	20.6	468.8	6413.58	53.45	0.77
-10.22	20.9	468.2	6423.44	53.51	0.78
-10.32	21.0	467.5	6434.96	53.53	0.78
-10.43	21.0	466.9	6444.85	53.51	0.77
-10.51	21.0	466.3	6454.74	53.53	0.77
-10.61	21.0	465.9	6461.34	53.49	0.76
-10.69	21.2	465.2	6472.90	53.53	0.77
-10.82	21.3	464.5	6484.47	53.51	0.76
-10.90	21.3	463.9	6494.40	53.53	0.76
-10.99	21.4	463.1	6507.65	53.58	0.76
-11.08	21.4	462.1	6524.24	53.67	0.76
-11.18	21.5	461.8	6529.23	53.60	0.75
-11.28	21.5	460.9	6544.19	53.66	0.75
-11.37	21.6	460.2	6555.84	53.69	0.75
-11.44	21.9	460.0	6559.18	53.64	0.76
-11.54	22.0	459.4	6569.18	53.64	0.75
-11.64	22.0	458.7	6580.86	53.66	0.75
-11.70	22.0	458.0	6592.55	53.72	0.75
-11.81	22.0	457.3	6604.26	53.73	0.74
-11.89	22.4	456.5	6617.66	53.79	0.75
-11.91	22.7	456.0	6626.05	53.87	0.76
-11.96	22.9	455.5	6634.44	53.91	0.76
-12.02	22.8	454.9	6644.52	53.96	0.76
-12.08	22.5	454.5	6651.25	53.97	0.75
-12.13	22.8	453.3	6671.46	54.15	0.75
-12.16	22.9	452.6	6683.27	54.26	0.76
-12.20	22.8	452.1	6691.72	54.31	0.75
-12.24	23.7	451.8	6696.79	54.32	0.78
-12.28	24.7	451.0	6710.33	54.44	0.81
-12.35	25.2	450.1	6725.59	54.54	0.83

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-12.44	25.4	449.7	6732.38	54.51	0.83
-12.55	25.5	449.2	6740.87	54.47	0.82
-12.60	25.4	448.5	6752.77	54.56	0.82
-12.64	25.2	447.8	6764.69	54.65	0.81
-12.75	25.5	447.3	6773.21	54.62	0.81
-12.81	25.3	446.8	6781.74	54.65	0.80
-12.89	25.5	446.0	6795.40	54.72	0.81
-12.99	25.9	445.4	6805.66	54.72	0.81
-13.02	25.7	445.3	6807.37	54.70	0.81
-13.10	25.8	444.4	6822.78	54.79	0.81
-13.16	26.0	443.6	6836.50	54.88	0.81
-13.26	26.3	443.1	6845.09	54.86	0.81
-13.31	26.6	442.3	6858.84	54.97	0.82
-13.42	26.8	441.9	6865.73	54.91	0.82
-13.50	27.1	441.5	6872.61	54.90	0.82
-13.59	27.2	440.7	6886.40	54.96	0.82
-13.69	26.7	439.6	6905.40	55.06	0.80
-13.75	26.3	438.7	6920.97	55.18	0.79
-13.81	26.3	438.1	6931.36	55.23	0.79
-13.87	26.1	437.9	6934.83	55.20	0.78
-13.96	26.1	437.5	6941.77	55.17	0.77
-14.01	25.9	436.6	6957.40	55.30	0.76
-14.05	25.5	436.5	6959.14	55.27	0.75
-14.11	25.2	435.7	6973.05	55.37	0.74
-14.18	25.1	435.3	6980.02	55.37	0.73
-14.26	25.0	434.7	6990.48	55.39	0.73
-14.34	25.0	434.1	7000.95	55.42	0.72
-14.42	24.9	433.6	7009.68	55.43	0.71
-14.49	24.8	433.0	7020.17	55.47	0.71
-14.57	24.9	432.9	7021.92	55.39	0.71
-14.64	24.8	432.1	7035.93	55.47	0.70
-14.65	24.2	431.6	7044.69	55.57	0.68
-14.69	23.7	430.8	7058.74	55.69	0.67
-14.72	23.4	430.5	7064.01	55.72	0.66
-14.80	23.3	430.0	7072.80	55.73	0.65
-14.86	23.2	429.6	7079.84	55.74	0.65
-14.94	23.0	429.3	7085.12	55.70	0.64
-15.00	23.0	428.5	7099.23	55.80	0.64
-15.07	22.8	428.0	7108.05	55.82	0.63
-15.15	22.6	427.7	7113.35	55.79	0.62
-15.22	22.4	427.1	7123.95	55.83	0.61
-15.29	22.3	426.7	7131.03	55.83	0.61
-15.37	22.2	426.2	7139.88	55.84	0.60
-15.44	22.2	425.7	7148.74	55.86	0.60

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-15.50	22.1	425.2	7157.61	55.89	0.59
-15.55	22.1	424.7	7166.49	55.94	0.59
-15.60	22.1	424.3	7173.59	55.96	0.59
-15.67	22.3	423.8	7182.48	55.99	0.59
-15.73	22.5	423.4	7189.60	56.00	0.59
-15.79	23.1	423.2	7193.16	55.97	0.61
-15.85	23.9	422.6	7203.85	56.02	0.63
-15.92	24.3	422.0	7214.56	56.07	0.63
-15.97	24.5	421.6	7221.70	56.09	0.64
-16.06	24.4	420.9	7234.21	56.13	0.63
-16.10	24.2	420.7	7237.79	56.13	0.62
-16.12	24.9	420.1	7248.53	56.24	0.64
-16.14	25.5	419.8	7253.91	56.28	0.66
-16.21	25.8	419.4	7261.08	56.28	0.66
-16.25	26.4	419.0	7268.26	56.32	0.67
-16.30	27.4	418.5	7277.24	56.36	0.70
-16.35	28.4	417.9	7288.04	56.44	0.72
-16.42	29.2	417.4	7297.04	56.46	0.74
-16.52	29.7	417.0	7304.24	56.42	0.74
-16.58	30.4	416.8	7307.85	56.39	0.76
-16.65	30.9	416.1	7320.48	56.46	0.77
-16.72	31.2	415.6	7329.51	56.48	0.77
-16.81	31.4	415.1	7338.55	56.48	0.77
-16.90	31.6	414.7	7345.78	56.45	0.77
-17.01	31.8	414.2	7354.83	56.43	0.77
-17.11	32.1	413.8	7362.08	56.39	0.77
-17.18	32.2	413.1	7374.77	56.46	0.77
-17.24	32.4	412.6	7383.85	56.49	0.77
-17.31	32.7	412.1	7392.94	56.52	0.78
-17.36	33.0	411.6	7402.03	56.57	0.78
-17.39	32.7	411.0	7412.96	56.67	0.77
-17.42	31.6	410.3	7425.73	56.79	0.75
-17.48	30.7	410.0	7431.20	56.78	0.72
-17.48	29.4	409.4	7442.17	56.92	0.69
-17.51	28.2	409.2	7445.83	56.93	0.66
-17.53	27.3	408.6	7456.81	57.04	0.64
-17.57	26.7	408.2	7464.14	57.08	0.63
-17.60	25.5	407.4	7478.82	57.23	0.60
-17.60	23.9	407.1	7484.34	57.30	0.56
-17.62	22.9	406.5	7495.37	57.41	0.54
-17.65	21.6	406.1	7502.74	57.46	0.51
-17.70	20.9	405.5	7513.80	57.54	0.49
-17.73	20.2	404.9	7524.87	57.64	0.47
-17.78	19.6	404.3	7535.96	57.72	0.46

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-17.80	19.1	403.4	7552.63	57.90	0.44
-17.84	18.7	403.2	7556.33	57.90	0.43
-17.88	18.5	402.4	7571.18	58.03	0.43
-17.96	18.4	401.8	7582.33	58.07	0.42
-17.99	18.2	401.2	7593.50	58.17	0.42
-18.06	18.2	400.8	7600.95	58.18	0.42
-18.13	18.2	400.3	7610.27	58.20	0.41
-18.21	18.3	399.5	7625.20	58.29	0.41
-18.27	18.2	399.1	7632.68	58.31	0.41
-18.35	18.2	398.5	7643.91	58.34	0.41
-18.44	18.3	397.6	7660.77	58.44	0.41
-18.50	18.2	397.1	7670.15	58.48	0.40
-18.58	18.2	396.7	7677.67	58.47	0.40
-18.63	18.2	396.0	7690.83	58.58	0.40
-18.68	18.2	395.5	7700.24	58.63	0.40
-18.74	18.2	394.8	7713.44	58.72	0.40
-18.80	18.2	394.2	7724.77	58.79	0.40
-18.89	18.2	393.7	7734.22	58.79	0.39
-18.96	18.2	393.0	7747.47	58.87	0.39
-19.04	18.2	392.5	7756.94	58.88	0.39
-19.12	18.3	392.1	7764.52	58.88	0.39
-19.16	18.3	391.2	7781.61	59.04	0.39
-19.24	18.3	391.0	7785.42	58.99	0.39
-19.30	18.3	390.3	7798.74	59.08	0.39
-19.39	18.4	389.6	7812.08	59.13	0.39
-19.47	18.4	389.0	7823.53	59.17	0.38
-19.54	18.5	388.4	7834.99	59.23	0.38
-19.65	18.5	388.0	7842.64	59.18	0.38
-19.75	18.6	387.5	7852.21	59.17	0.38
-19.84	18.7	386.8	7865.62	59.23	0.38
-19.94	18.8	386.3	7875.21	59.22	0.38
-20.03	19.0	385.6	7888.66	59.27	0.38
-20.14	19.1	385.2	7896.35	59.23	0.38
-20.19	19.4	384.7	7905.97	59.29	0.38
-20.31	19.5	384.0	7919.45	59.30	0.38
-20.39	19.5	383.4	7931.03	59.34	0.38
-20.46	19.5	382.7	7944.55	59.43	0.38
-20.57	19.6	382.0	7958.09	59.46	0.38
-20.66	19.8	381.8	7961.96	59.39	0.38
-20.73	19.9	381.3	7971.65	59.42	0.38
-20.82	20.1	380.5	7987.17	59.50	0.38
-20.93	20.1	379.9	7998.82	59.51	0.38
-21.11	20.3	378.9	8018.28	59.52	0.38
-21.21	20.3	378.6	8024.13	59.46	0.37



### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-21.28	20.4	377.8	8039.73	59.57	0.37
-21.37	20.4	377.6	8043.63	59.50	0.37
-21.45	20.4	376.9	8057.31	59.57	0.37
-21.54	20.5	376.4	8067.09	59.58	0.37
-21.63	20.6	376.0	8074.92	59.56	0.37
-21.73	20.5	375.5	8084.72	59.56	0.36
-21.81	20.3	375.1	8092.56	59.55	0.36
-21.91	20.3	374.6	8102.38	59.55	0.36
-21.97	20.2	374.1	8112.20	59.59	0.35
-22.06	20.0	373.8	8118.10	59.55	0.35
-22.14	20.0	373.4	8125.97	59.55	0.34
-22.24	19.9	372.6	8141.73	59.62	0.34
-22.32	19.9	372.3	8147.64	59.59	0.34
-22.42	19.8	371.8	8157.51	59.58	0.33
-22.46	19.8	371.2	8169.37	59.69	0.33
-22.55	19.9	370.4	8185.20	59.77	0.33
-22.60	20.0	370.2	8189.16	59.76	0.33
-22.68	20.4	369.7	8199.07	59.78	0.34
-22.70	20.5	369.3	8207.01	59.85	0.34
-22.75	20.7	369.1	8210.98	59.84	0.34
-22.78	20.9	368.7	8218.93	59.90	0.34
-22.85	21.1	367.9	8234.85	60.02	0.35
-22.91	21.3	367.4	8244.82	60.07	0.35
-23.01	21.7	366.7	8258.79	60.12	0.35
-23.05	21.9	366.5	8262.78	60.11	0.35
-23.03	22.1	366.2	8268.78	60.22	0.36
-22.99	22.3	365.6	8280.79	60.43	0.36
-23.03	22.4	365.1	8290.81	60.51	0.36
-23.05	22.4	364.7	8298.84	60.58	0.36
-23.08	22.4	364.5	8302.85	60.60	0.36
-23.11	22.6	364.0	8312.90	60.69	0.37
-23.18	22.6	363.6	8320.95	60.70	0.36
-23.23	22.7	362.9	8335.05	60.82	0.37
-23.29	22.8	362.8	8337.07	60.76	0.36
-23.35	23.0	362.2	8349.18	60.84	0.37
-23.42	23.1	362.1	8351.20	60.77	0.37
-23.47	23.2	361.7	8359.28	60.81	0.37
-23.54	23.4	361.4	8365.34	60.80	0.37
-23.60	23.5	360.8	8377.48	60.88	0.37
-23.64	23.4	360.2	8389.64	60.98	0.37
-23.71	23.2	360.1	8391.67	60.91	0.36
-23.78	23.1	359.7	8399.79	60.93	0.36
-23.86	23.1	359.3	8407.91	60.93	0.35
-23.94	23.0	358.9	8416.04	60.92	0.35

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-23.96	22.9	358.5	8424.18	61.00	0.35
-24.05	22.8	358.3	8428.25	60.94	0.35
-24.10	22.7	357.6	8442.51	61.06	0.34
-24.18	22.7	357.1	8452.71	61.08	0.34
-24.32	22.7	356.3	8469.05	61.11	0.34
-24.36	22.6	356.2	8471.10	61.08	0.33
-24.36	22.3	355.9	8477.23	61.16	0.33
-24.38	22.3	355.6	8483.38	61.22	0.33
-24.43	22.2	354.9	8497.73	61.34	0.33
-24.49	22.1	354.5	8505.94	61.37	0.32
-24.54	22.1	354.0	8516.21	61.43	0.32
-24.55	22.0	353.8	8520.33	61.47	0.32
-24.49	21.4	353.4	8528.56	61.66	0.32
-24.49	21.0	353.3	8530.62	61.69	0.31
-24.46	20.8	353.1	8534.74	61.78	0.31
-24.40	20.4	352.2	8553.33	62.11	0.30
-24.41	20.2	351.9	8559.53	62.18	0.30
-24.47	20.2	351.3	8571.96	62.26	0.30
-24.49	20.2	351.1	8576.10	62.29	0.30
-24.53	19.9	350.8	8582.33	62.32	0.29
-24.55	19.8	350.2	8594.79	62.45	0.29
-24.55	19.8	349.6	8607.27	62.62	0.29
-23.23	19.7	349.4	8611.44	64.46	0.33
-24.68	19.8	348.6	8628.17	62.72	0.29
-24.78	19.8	348.1	8638.61	62.72	0.29
-24.79	19.8	347.7	8646.97	62.82	0.29
-24.86	19.8	347.5	8651.15	62.78	0.29
-24.93	19.7	347.1	8659.52	62.79	0.28
-25.00	19.7	346.4	8674.19	62.89	0.28
-25.06	19.6	345.9	8684.68	62.95	0.28
-25.16	19.9	345.3	8697.29	62.98	0.28
-25.23	20.0	345.1	8701.50	62.94	0.28
-25.32	20.0	344.3	8718.34	63.04	0.28
-25.39	20.1	344.1	8722.55	63.00	0.28
-25.42	20.0	343.4	8737.32	63.16	0.28
-25.54	20.1	343.3	8739.44	63.03	0.28
-25.59	20.1	342.6	8754.23	63.15	0.28
-25.66	20.1	342.2	8762.70	63.17	0.28
-25.68	19.9	342.0	8766.93	63.20	0.27
-25.76	20.0	341.3	8781.78	63.29	0.27
-25.82	20.0	341.2	8783.90	63.23	0.27
-25.90	20.0	340.2	8805.15	63.41	0.27
-25.96	20.0	340.0	8809.40	63.38	0.27
-26.03	19.9	339.5	8820.05	63.43	0.27

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-26.09	19.9	339.0	8830.71	63.49	0.26
-26.16	19.9	338.7	8837.12	63.48	0.26
-26.22	19.8	338.2	8847.80	63.54	0.26
-26.27	19.8	337.8	8856.35	63.59	0.26
-26.35	19.8	337.4	8864.92	63.59	0.26
-26.49	19.9	336.8	8877.77	63.57	0.26
-26.60	19.9	336.0	8894.94	63.65	0.25
-26.69	19.9	335.6	8903.54	63.64	0.25
-26.78	19.9	334.9	8918.60	63.72	0.25
-26.86	20.0	334.7	8922.91	63.67	0.25
-26.96	20.0	334.5	8927.22	63.59	0.25
-27.02	20.1	333.7	8944.47	63.74	0.25
-27.09	20.2	333.0	8959.60	63.84	0.25
-27.19	20.3	332.7	8966.10	63.79	0.25
-27.29	20.4	332.4	8972.59	63.74	0.25
-27.36	20.5	332.0	8981.26	63.76	0.25
-27.43	20.8	331.3	8996.44	63.87	0.25
-27.51	20.8	331.0	9002.96	63.85	0.25
-27.54	20.8	330.3	9018.18	64.01	0.25
-27.61	20.8	330.2	9020.36	63.94	0.25
-27.71	21.1	329.8	9029.07	63.92	0.25
-27.78	21.5	329.3	9039.97	63.97	0.25
-27.90	22.0	328.8	9050.88	63.96	0.25
-27.99	22.3	328.2	9064.00	64.01	0.26
-28.07	22.5	327.9	9070.56	63.99	0.26
-28.16	22.9	327.3	9083.70	64.04	0.26
-28.26	23.2	326.7	9096.86	64.08	0.26
-28.37	23.3	326.5	9101.24	63.99	0.26
-28.47	23.5	325.8	9116.62	64.06	0.26
-28.56	23.6	325.5	9123.22	64.02	0.26
-28.64	23.6	325.2	9129.82	64.00	0.26
-28.74	23.6	324.6	9143.04	64.04	0.26
-28.84	23.7	324.4	9147.45	63.96	0.25
-28.92	23.8	324.0	9156.27	63.97	0.25
-29.04	23.9	323.3	9171.73	64.01	0.25
-29.11	23.9	323.2	9173.94	63.94	0.25
-29.19	24.1	322.5	9189.43	64.04	0.25
-29.30	24.2	322.1	9198.29	64.01	0.25
-29.47	24.5	321.3	9216.04	64.02	0.25
-29.54	24.6	321.0	9222.70	64.01	0.25
-29.64	24.7	320.4	9236.04	64.05	0.25
-29.73	24.8	320.1	9242.72	64.02	0.25
-29.84	24.9	319.6	9253.86	64.01	0.25
-29.92	25.0	319.2	9262.78	64.02	0.25

### CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-30.03	25.2	318.7	9273.94	64.02	0.25
-30.14	25.4	318.2	9285.11	64.02	0.25
-30.23	25.5	318.0	9289.58	63.96	0.25
-30.32	25.6	317.7	9296.30	63.92	0.24
-30.42	25.8	317.0	9311.97	64.00	0.24
-30.51	25.9	316.7	9318.70	63.96	0.24
-30.58	26.0	316.2	9329.92	64.02	0.24
-30.70	26.1	316.0	9334.42	63.91	0.24
-30.82	26.2	315.3	9350.15	63.96	0.24
-30.86	26.2	314.8	9361.41	64.06	0.24
-30.94	26.3	314.5	9368.17	64.04	0.24
-31.05	26.4	313.9	9381.71	64.07	0.24
-31.13	26.4	313.5	9390.75	64.08	0.24
-31.25	26.4	313.0	9402.05	64.07	0.23
-31.31	26.5	312.8	9406.58	64.05	0.23
-31.38	26.5	312.3	9417.90	64.10	0.23
-31.44	26.5	311.6	9433.79	64.23	0.23
-31.65	26.8	311.1	9445.14	64.10	0.23
-31.70	26.9	310.7	9454.24	64.15	0.23
-31.76	26.9	310.3	9463.34	64.19	0.23
-31.90	26.9	309.5	9481.58	64.24	0.23
-32.03	26.9	308.9	9495.28	64.25	0.22
-32.11	26.9	308.2	9511.30	64.36	0.22
-32.31	27.0	307.7	9522.75	64.23	0.22
-32.38	27.0	307.5	9527.33	64.20	0.22
-32.31	26.9	307.2	9534.21	64.39	0.22
-32.27	26.8	306.7	9545.70	64.60	0.22
-32.32	26.6	306.3	9554.90	64.66	0.22
-32.35	26.5	305.7	9568.73	64.81	0.22
-32.41	26.6	305.2	9580.26	64.88	0.22
-32.50	26.6	305.1	9582.57	64.79	0.21
-32.57	26.5	305.0	9584.88	64.72	0.21
-32.63	26.6	304.4	9598.75	64.83	0.21
-32.70	26.5	303.5	9619.60	65.01	0.21
-32.82	26.3	303.4	9621.92	64.88	0.21
-32.94	26.0	302.7	9638.16	64.93	0.20
-32.95	25.8	302.3	9647.46	65.05	0.20
-33.05	25.6	302.0	9654.44	65.00	0.20
-33.12	25.4	301.5	9666.09	65.06	0.19
-33.14	25.1	301.4	9668.42	65.07	0.19
-33.19	24.8	301.2	9673.08	65.06	0.19
-33.26	24.6	300.0	9701.12	65.35	0.19
-33.32	24.2	299.7	9708.15	65.36	0.18
-33.35	24.1	299.4	9715.18	65.41	0.18

CSI Profile: STA2RS06

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-33.41	24.0	299.0	9724.56	65.46	0.18
-33.44	23.8	298.5	9736.31	65.58	0.18
-33.47	23.7	298.3	9741.01	65.60	0.18
-33.52	23.6	297.5	9759.85	65.79	0.18
-33.59	23.5	297.3	9764.57	65.76	0.17
-33.69	23.6	297.0	9771.65	65.71	0.17
-33.74	23.7	296.4	9785.82	65.84	0.17
-33.82	24.1	296.0	9795.29	65.86	0.18
-33.88	24.3	295.4	9809.50	65.97	0.18
-34.03	24.5	294.6	9828.49	66.02	0.18
-34.15	24.5	294.3	9835.62	65.95	0.17
-34.17	24.7	293.5	9854.67	66.18	0.18
-34.36	25.1	293.4	9857.05	65.95	0.17
-34.48	25.2	292.6	9876.13	66.04	0.17
-34.52	25.4	292.1	9888.08	66.15	0.17
-34.68	25.8	291.6	9900.05	66.09	0.18
-34.71	25.8	291.1	9912.03	66.21	0.17
-34.82	25.8	290.7	9921.62	66.19	0.17
-34.92	25.8	290.0	9938.44	66.28	0.17
-34.98	25.7	289.9	9940.84	66.23	0.17
-35.09	25.7	288.9	9964.93	66.41	0.17
-35.20	25.8	288.6	9972.17	66.35	0.17
-35.25	25.8	288.1	9984.25	66.45	0.17
-35.33	25.8	287.9	9989.08	66.40	0.17
-35.46	25.8	287.6	9996.34	66.32	0.16
-35.52	25.8	287.2	10006.02	66.37	0.16
-35.60	25.8	286.8	10015.72	66.39	0.16
-35.70	25.8	286.7	10018.14	66.28	0.16
-35.78	25.8	286.3	10027.85	66.30	0.16
-35.90	25.9	285.8	10039.99	66.30	0.16
-36.01	25.9	285.4	10049.71	66.28	0.16
-36.14	25.9	285.0	10059.45	66.23	0.16
-36.20	25.9	284.5	10071.63	66.31	0.15
-36.27	25.9	284.3	10076.51	66.28	0.15
-36.38	25.9	283.6	10093.60	66.36	0.15
-36.47	25.9	283.3	10100.93	66.33	0.15
-36.50	25.8	283.0	10108.27	66.39	0.15
-36.57	25.7	282.8	10113.17	66.36	0.15
-36.62	25.7	282.5	10120.52	66.39	0.15
-36.71	25.6	282.2	10127.88	66.37	0.15
-36.82	25.6	281.6	10142.61	66.42	0.14
-36.90	25.7	281.3	10149.98	66.40	0.14
-37.01	25.6	281.1	10154.90	66.32	0.14
-37.09	25.5	280.5	10169.67	66.41	0.14

**CSI Profile: STA2RS06**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-37.20	25.5	280.1	10179.52	66.39	0.14
-37.28	25.3	279.7	10189.39	66.41	0.14
-37.32	25.3	279.6	10191.86	66.39	0.14
-37.40	25.3	279.2	10201.75	66.41	0.14
-37.43	25.2	278.9	10209.16	66.47	0.14
-37.54	25.1	278.6	10216.59	66.42	0.13
-37.59	25.0	278.1	10228.98	66.52	0.13
-37.73	24.9	277.9	10233.94	66.39	0.13
-37.88	24.7	277.8	10236.42	66.21	0.13
-37.94	24.7	277.3	10248.82	66.30	0.13
-38.12	24.6	277.1	10253.79	66.11	0.12
-38.34	24.6	276.9	10258.75	65.86	0.12



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAR507

Radiosonde ✓ Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_

Date 8/31/94 Ob Time 0655 CDT

Site Chaudeleur Islander, Breton Island, LA

Observer Blanchard

Barometric Pressure:	<u>1019.9</u>	mBars
Dry-Bulb Temperature:	<u>27.9</u>	degrees C
Wet-Bulb Temperature:	<u>25.8</u>	degrees C
Relative Humidity:	<u>85</u>	percent
Wind Speed:	<u>5-10 est</u>	knots mph m/s
Wind Direction:	<u>S esc</u>	degrees M T
Sonde Battery Voltage:	<u>9.2</u>	VDC
Actual Time of Launch:	<u>0703 CDT</u>	

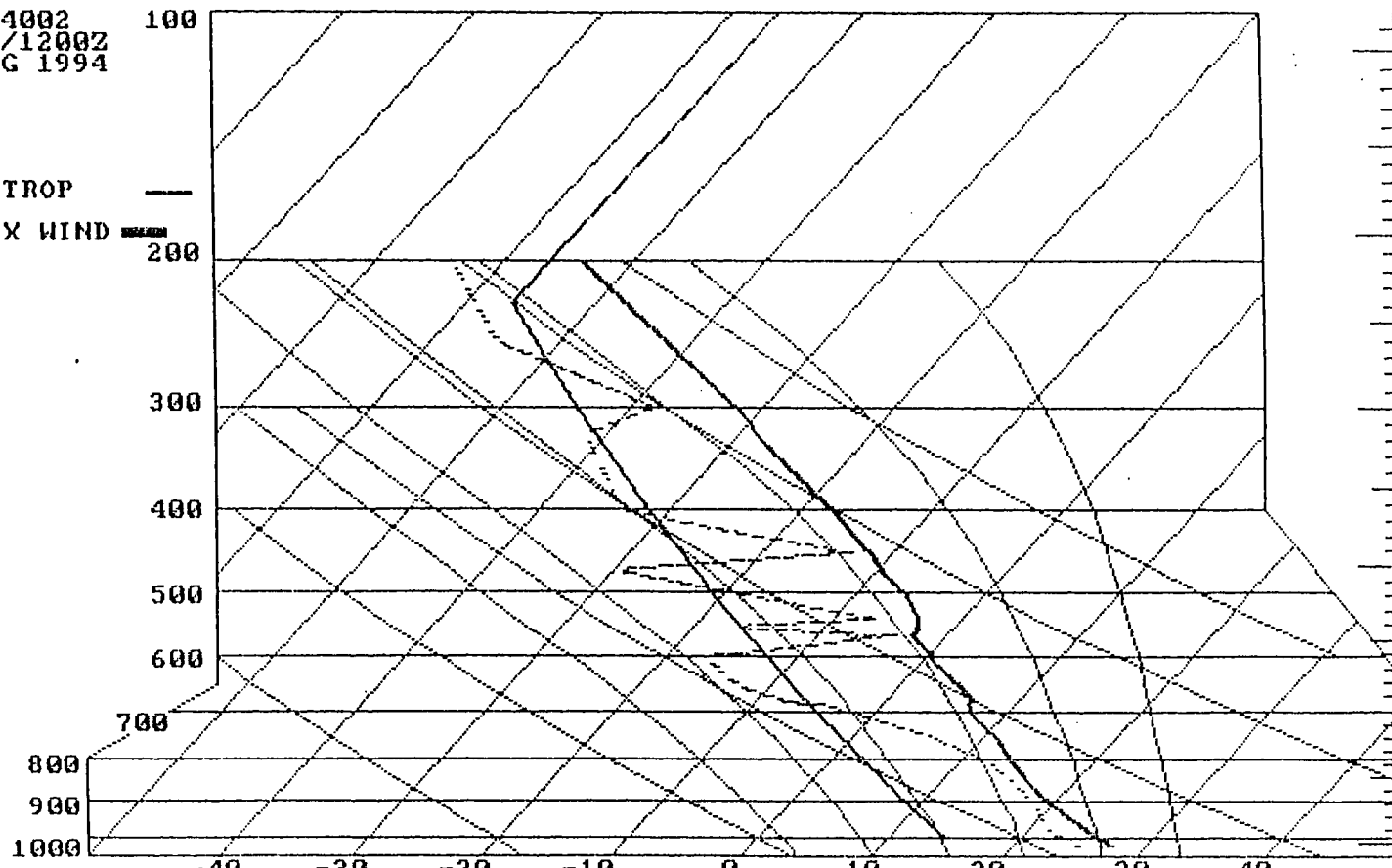
Comments: (Cloud cover, type, flight description, etc.)

H.V. 10676 R.D.V. 77.77  
Press. via A.I.R. barometer 1013.4 mb (-6.5)  
5/8 cumulus congestus, calvus, nimbus  
(to east)

Additional Comments on Back

94002  
31/1200Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...  
USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-144



Station Number: 94002

DTG of RAOB: 31/1200Z AUG 1994

Indices	=		Sfc Data: 1020mb T= 27.2°C Td= 24.8°C	Heights
SSI	=	-0.2	-184ft Sfc Wind: 999/0-1kt	100mb = MISC
KO	=	-20.2		150mb = MISC
K Index	=	28.7		200mb = 12430M
Lifted Index	=	-3.0	Wet Bulb Zero = 679mb -- 10651ft	250mb = 10960M
Sweat Index	=	Missing	LCL = 985mb 24.2°C 778ft	300mb = 9700M
Total-Totals	=	44.2	LFC = 962mb 23.4°C 1441ft	400mb = 7610M
U Totals	=	22.7	CCL = 972mb 24.1°C 1139ft	500mb = 5900M
X Totals	=	21.5	Tc = -- 28.2°C --	700mb = 3215M
Fog SI	=	Missing	CCL E.L. = None	850mb = 1582M
Fog Threat	=	-1.1	LFC E.L. = None	1000mb = 176M
Fog Point	=	22.6°C	850mb WBPT = -- 21.5°C --	

Inversion Layers	Type	Break	Freezing Levels
683- 678mb 10510-10698ft	Subs	41.0°C	600mb 13793ft 600mb 13794ft

Thickness
500-300mb = 3800M
700-500mb = 2685M
850-500mb = 4318M
850-700mb = 1633M
1000-500mb = 5724M
1000-700mb = 3039M
1000-850mb = 1406M

Max Wind  
None Reported

Base	Icing Layers	Intensity	Base	Turbulence Layers	Shear
20800ft - 20900ft	Top	2.3	None	Top	

Trop Data  
None Reported

THREAT COLORS  
 Low  
 Moderate  
 High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-145

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.25	86.8	1019.8	3.00	25.57	19.75
27.18	84.7	1018.1	17.84	25.64	19.21
27.07	84.7	1015.7	38.82	25.74	19.13
26.93	83.9	1014.1	52.83	25.73	18.81
26.76	85.5	1011.5	75.63	25.78	19.04
26.58	85.5	1009.3	94.95	25.79	18.87
26.38	85.6	1007.0	115.19	25.78	18.71
26.19	86.4	1004.7	135.46	25.79	18.72
26.02	85.9	1002.5	154.87	25.81	18.46
25.81	88.2	1000.1	176.09	25.80	18.77
25.63	89.2	998.1	193.80	25.79	18.82
25.44	89.6	995.6	215.97	25.82	18.74
25.27	90.5	993.7	232.85	25.81	18.78
25.15	89.9	991.8	249.75	25.85	18.55
24.95	91.3	989.7	268.46	25.83	18.66
24.78	90.3	987.5	288.09	25.85	18.30
24.84	87.4	985.3	307.75	26.10	17.80
24.86	83.1	983.4	324.76	26.29	16.95
24.85	80.7	981.9	338.21	26.41	16.47
24.82	79.4	980.4	351.68	26.51	16.19
24.74	78.7	978.9	365.16	26.56	15.99
24.72	77.5	977.4	378.66	26.67	15.75
24.62	77.2	975.6	394.88	26.73	15.62
24.50	77.3	974.2	407.51	26.73	15.55
24.42	77.2	972.9	419.25	26.77	15.47
24.30	77.2	971.7	430.10	26.75	15.38
24.22	77.2	970.4	441.86	26.79	15.32
24.09	77.3	969.1	453.63	26.77	15.24
23.99	77.4	967.6	467.23	26.80	15.19
23.88	77.7	966.3	479.03	26.81	15.17
23.80	77.9	965.0	490.84	26.84	15.16
23.67	78.2	963.9	500.84	26.81	15.11
23.58	78.2	962.6	512.67	26.83	15.05
23.49	77.1	961.1	526.34	26.88	14.78
23.46	77.2	959.8	538.19	26.96	14.79
23.34	77.7	958.5	550.06	26.96	14.80
23.24	78.8	957.2	561.94	26.97	14.94
23.13	80.1	956.0	572.92	26.97	15.11
23.01	80.4	954.6	585.75	26.97	15.08
22.88	83.1	953.5	595.83	26.94	15.49
22.77	83.2	952.0	609.60	26.96	15.43
22.66	83.6	950.8	620.62	26.96	15.42
22.56	84.0	949.4	633.50	26.98	15.42
22.50	80.7	948.0	646.39	27.05	14.77

**CSI Profile: STA2RS07**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
22.45	79.9	946.7	658.36	27.12	14.59
22.37	79.3	945.3	671.28	27.16	14.43
22.29	79.0	944.2	681.44	27.18	14.32
22.17	78.9	942.7	695.30	27.20	14.22
22.09	79.2	941.5	706.41	27.22	14.22
21.98	80.6	940.3	717.52	27.22	14.40
21.86	81.0	938.8	731.43	27.24	14.39
21.75	81.6	937.4	744.43	27.25	14.42
21.59	82.6	935.8	759.30	27.24	14.48
21.46	83.5	934.4	772.32	27.23	14.55
21.34	84.8	932.6	789.09	27.28	14.70
21.20	85.5	931.2	802.16	27.26	14.71
21.02	90.7	929.2	820.84	27.26	15.49
20.82	91.2	927.5	836.75	27.22	15.41
20.69	91.7	925.4	856.43	27.28	15.41
20.50	92.6	923.8	871.45	27.23	15.40
20.43	94.6	922.2	886.49	27.31	15.70
20.39	93.8	920.6	901.55	27.42	15.55
20.34	93.9	919.1	915.69	27.51	15.55
20.28	93.8	917.7	928.91	27.58	15.50
20.19	93.7	916.0	944.98	27.64	15.42
20.07	93.7	914.3	961.07	27.68	15.33
19.97	93.6	912.8	975.29	27.72	15.24
19.92	93.9	911.5	987.63	27.79	15.27
19.91	93.5	909.8	1003.79	27.94	15.22
19.87	93.2	908.3	1018.08	28.04	15.16
19.75	93.3	906.8	1032.38	28.06	15.09
19.63	93.3	905.2	1047.65	28.09	15.00
19.49	93.5	903.7	1061.99	28.09	14.92
19.35	93.5	902.0	1078.26	28.11	14.82
19.19	93.8	900.3	1094.55	28.10	14.75
19.02	94.1	898.7	1109.90	28.08	14.66
18.93	94.0	897.1	1125.27	28.14	14.59
18.87	94.1	895.6	1139.71	28.23	14.57
18.77	94.1	893.9	1156.09	28.29	14.51
18.64	94.1	892.3	1171.52	28.31	14.41
18.54	94.1	890.7	1186.98	28.36	14.35
18.47	94.1	889.0	1203.43	28.45	14.31
18.37	94.1	887.4	1218.94	28.50	14.25
18.24	94.2	885.8	1234.47	28.52	14.17
18.14	94.1	884.1	1250.99	28.59	14.09
18.06	94.0	882.6	1265.59	28.65	14.03
17.91	94.1	881.0	1281.18	28.65	13.94
17.79	94.0	879.2	1298.75	28.70	13.84

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
17.74	93.9	877.5	1315.37	28.82	13.81
17.68	93.8	875.9	1331.03	28.91	13.77
17.65	93.5	874.4	1345.75	29.03	13.72
17.56	93.5	872.7	1362.44	29.10	13.67
17.47	93.5	871.2	1377.20	29.16	13.61
17.42	93.3	869.6	1392.97	29.27	13.56
17.29	93.3	867.7	1411.72	29.32	13.48
17.14	93.4	866.1	1427.53	29.32	13.39
17.03	93.4	864.8	1440.39	29.34	13.32
17.00	93.2	863.1	1457.24	29.48	13.29
17.03	92.6	861.8	1470.15	29.64	13.25
16.96	92.5	860.3	1485.06	29.72	13.20
16.85	92.6	858.9	1499.00	29.74	13.14
16.70	92.7	857.4	1513.95	29.74	13.05
16.60	92.6	855.6	1531.92	29.82	12.98
16.45	92.8	854.3	1544.91	29.79	12.90
16.32	92.9	853.0	1557.92	29.79	12.83
16.25	92.8	851.6	1571.94	29.86	12.78
16.17	92.9	850.6	1581.97	29.87	12.74
16.06	93.0	849.1	1597.03	29.91	12.68
15.94	93.1	847.9	1609.09	29.91	12.62
15.79	93.4	846.4	1624.18	29.90	12.56
15.70	93.4	845.0	1638.29	29.95	12.51
15.55	93.5	843.7	1651.40	29.93	12.42
15.46	93.6	842.6	1662.50	29.95	12.37
15.35	93.7	841.4	1674.63	29.96	12.32
15.25	93.8	840.1	1687.78	29.99	12.27
15.15	93.8	838.8	1700.95	30.01	12.21
15.06	94.0	837.7	1712.11	30.03	12.18
14.95	93.9	836.7	1722.25	30.02	12.09
14.86	93.9	835.4	1735.46	30.06	12.04
14.78	93.9	834.4	1745.63	30.08	11.99
14.71	93.8	833.4	1755.81	30.11	11.94
14.64	93.9	832.3	1767.02	30.15	11.91
14.59	93.8	831.4	1776.19	30.19	11.87
14.53	93.8	830.4	1786.40	30.23	11.84
14.45	93.8	829.1	1799.69	30.29	11.80
14.34	93.8	828.1	1809.92	30.27	11.73
14.29	93.6	826.8	1823.23	30.36	11.68
14.27	93.6	826.0	1831.43	30.42	11.68
14.22	93.6	824.9	1842.72	30.48	11.66
14.16	93.5	823.7	1855.05	30.55	11.61
14.13	93.4	822.8	1864.31	30.61	11.59
14.05	93.4	821.8	1874.61	30.63	11.54

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
13.97	93.4	820.9	1883.88	30.64	11.50
13.89	93.4	819.9	1894.20	30.66	11.45
13.84	93.3	818.9	1904.52	30.72	11.41
13.82	93.3	817.9	1914.85	30.80	11.41
13.82	93.2	816.9	1925.20	30.91	11.41
13.91	92.6	815.8	1936.60	31.12	11.42
13.90	92.1	814.9	1945.94	31.21	11.37
13.87	91.7	813.8	1957.37	31.29	11.31
13.82	91.6	812.7	1968.81	31.36	11.27
13.77	91.6	811.8	1978.18	31.40	11.25
13.73	91.6	810.9	1987.56	31.45	11.23
13.67	91.5	810.0	1996.94	31.49	11.19
13.70	90.7	808.9	2008.43	31.64	11.13
13.72	90.4	807.9	2018.89	31.77	11.12
13.69	90.1	806.9	2029.36	31.84	11.07
13.66	90.0	805.6	2042.98	31.95	11.06
13.63	89.8	804.3	2056.63	32.06	11.03
13.64	89.0	803.0	2070.30	32.21	10.95
13.62	88.8	802.0	2080.83	32.30	10.93
13.55	88.9	800.7	2094.54	32.37	10.91
13.46	89.0	799.6	2106.15	32.39	10.87
13.41	88.7	798.4	2118.83	32.47	10.81
13.35	88.4	796.8	2135.76	32.58	10.75
13.29	88.2	795.5	2149.54	32.66	10.70
13.18	88.1	794.1	2164.41	32.70	10.63
13.07	88.1	793.1	2175.03	32.69	10.57
12.96	88.3	791.6	2190.99	32.74	10.54
12.88	88.0	790.6	2201.64	32.76	10.46
12.93	85.2	789.4	2214.44	32.95	10.17
12.98	83.4	788.2	2227.26	33.13	10.00
12.90	83.0	786.9	2241.17	33.19	9.92
12.84	82.8	785.5	2256.16	33.29	9.87
12.74	82.6	784.4	2267.96	33.30	9.79
12.63	82.7	783.0	2283.00	33.34	9.75
12.53	82.2	782.0	2293.75	33.34	9.64
12.43	81.7	780.4	2310.97	33.42	9.54
12.30	81.3	779.7	2318.51	33.36	9.42
12.10	79.2	776.6	2351.98	33.49	9.08
11.99	79.0	775.4	2364.96	33.51	9.01
11.90	77.4	774.0	2380.12	33.57	8.79
11.84	72.6	772.7	2394.22	33.65	8.22
11.82	72.0	771.5	2407.24	33.77	8.15
11.73	72.8	770.2	2421.38	33.82	8.20
11.73	73.3	768.8	2436.63	33.98	8.28

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
11.68	72.6	767.6	2449.72	34.06	8.18
11.64	71.8	766.0	2467.20	34.20	8.09
11.55	71.8	764.4	2484.71	34.29	8.06
11.43	71.6	763.5	2494.57	34.26	7.98
11.34	71.4	761.8	2513.23	34.36	7.93
11.28	70.7	760.0	2533.02	34.50	7.83
11.20	70.4	759.1	2542.93	34.52	7.77
11.09	71.0	757.5	2560.57	34.59	7.79
11.00	71.0	756.2	2574.93	34.64	7.76
10.91	71.9	754.5	2593.73	34.74	7.83
10.78	71.9	753.3	2607.03	34.74	7.77
10.67	71.8	752.0	2621.45	34.77	7.72
10.57	71.4	750.6	2637.00	34.83	7.64
10.47	71.2	748.8	2657.03	34.93	7.58
10.35	71.1	747.2	2674.86	34.99	7.53
10.22	71.2	745.9	2689.38	35.00	7.49
10.09	69.8	744.3	2707.26	35.05	7.29
10.01	69.4	743.0	2721.82	35.12	7.22
9.93	69.3	741.2	2742.01	35.25	7.19
9.78	69.4	739.9	2756.61	35.24	7.14
9.62	69.4	738.2	2775.74	35.27	7.08
9.49	69.5	736.6	2793.77	35.31	7.04
9.41	68.4	735.2	2809.58	35.40	6.90
9.30	67.8	733.8	2825.40	35.44	6.80
9.19	67.1	732.1	2844.66	35.53	6.70
9.06	66.0	730.9	2858.26	35.53	6.54
8.95	65.9	729.0	2879.85	35.64	6.50
8.82	65.8	727.9	2892.36	35.63	6.44
8.70	66.0	726.3	2910.59	35.69	6.42
8.56	66.0	725.2	2923.14	35.67	6.37
8.47	66.8	723.4	2943.71	35.80	6.43
8.31	68.0	722.1	2958.59	35.78	6.48
8.17	68.2	720.8	2973.49	35.78	6.45
8.05	68.1	719.2	2991.86	35.85	6.40
7.95	67.4	717.9	3006.81	35.90	6.31
7.89	66.4	717.4	3012.56	35.89	6.19
7.78	66.2	715.5	3034.45	36.01	6.14
7.60	67.2	712.6	3067.97	36.17	6.18
7.55	65.3	711.5	3080.71	36.25	5.99
7.50	64.7	709.9	3099.27	36.39	5.93
7.23	64.7	708.4	3116.70	36.28	5.84
7.14	64.4	707.4	3128.33	36.31	5.78
7.01	62.3	704.9	3157.47	36.48	5.56
6.95	60.2	703.5	3173.83	36.59	5.36

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.91	59.6	702.6	3184.36	36.66	5.30
6.89	56.8	701.2	3200.76	36.81	5.05
6.94	54.6	700.0	3214.85	37.02	4.88
6.88	54.1	698.2	3236.01	37.18	4.83
6.81	53.5	697.5	3244.26	37.19	4.75
6.76	53.5	696.2	3259.59	37.30	4.75
6.69	53.3	695.2	3271.40	37.35	4.71
6.64	52.7	694.6	3278.49	37.37	4.65
6.57	52.0	693.1	3296.25	37.49	4.57
6.52	51.3	691.9	3310.47	37.59	4.50
6.47	51.3	691.0	3321.16	37.65	4.49
6.43	50.7	690.0	3333.04	37.73	4.43
6.37	50.4	688.6	3349.70	37.85	4.40
6.28	50.3	688.0	3356.86	37.82	4.37
6.23	49.5	687.3	3365.20	37.86	4.28
6.20	48.9	685.9	3381.92	38.01	4.23
6.16	46.6	685.2	3390.29	38.05	4.02
6.14	46.0	684.2	3402.26	38.16	3.97
6.10	45.5	683.4	3411.85	38.22	3.92
6.12	46.3	682.4	3423.85	38.37	4.00
6.25	39.1	681.6	3433.46	38.62	3.41
6.30	38.3	680.7	3444.29	38.80	3.36
6.32	37.4	679.9	3453.93	38.92	3.29
6.33	37.0	679.0	3464.78	39.05	3.26
6.35	36.4	678.1	3475.66	39.19	3.21
6.32	35.8	677.4	3484.12	39.25	3.16
6.28	35.6	676.6	3493.81	39.31	3.14
6.18	37.3	675.7	3504.71	39.32	3.27
6.09	39.3	674.8	3515.63	39.34	3.43
6.00	39.3	673.7	3528.99	39.38	3.41
5.92	39.7	673.1	3536.29	39.37	3.43
5.86	40.1	672.3	3546.02	39.41	3.45
5.73	40.3	671.4	3556.98	39.39	3.44
5.65	41.2	670.5	3567.96	39.42	3.51
5.58	42.7	669.4	3581.38	39.49	3.62
5.48	44.3	668.8	3588.71	39.45	3.74
5.36	46.3	668.0	3598.50	39.43	3.88
5.29	47.5	667.1	3609.51	39.47	3.97
5.22	47.9	666.0	3622.99	39.54	3.99
5.09	47.3	664.7	3638.95	39.56	3.91
5.16	40.6	662.8	3662.32	39.90	3.38
5.11	40.3	662.2	3669.71	39.92	3.34
5.12	38.8	661.2	3682.04	40.07	3.23
5.16	37.8	660.3	3693.16	40.24	3.16

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.10	37.7	659.4	3704.29	40.29	3.14
5.03	36.4	658.4	3716.68	40.35	3.02
5.06	35.5	657.2	3731.56	40.55	2.96
5.00	35.4	656.3	3742.74	40.60	2.94
4.92	35.5	655.7	3750.20	40.59	2.93
4.89	34.4	654.5	3765.13	40.73	2.84
4.82	32.8	653.8	3773.86	40.74	2.70
4.74	32.5	652.8	3786.33	40.79	2.66
4.65	31.5	651.6	3801.32	40.85	2.57
4.55	31.6	651.0	3808.82	40.82	2.56
4.49	28.5	650.0	3821.33	40.89	2.30
4.40	28.2	649.1	3832.61	40.92	2.27
4.30	28.0	647.8	3848.91	40.98	2.24
4.22	26.8	647.4	3853.94	40.95	2.13
4.11	26.7	646.0	3871.53	41.02	2.11
4.03	26.0	645.3	3880.34	41.02	2.05
3.96	25.2	644.3	3892.94	41.08	1.98
3.93	22.2	643.5	3903.03	41.16	1.74
3.86	21.4	642.2	3919.44	41.26	1.67
3.77	21.8	641.0	3934.62	41.33	1.70
3.69	20.4	640.2	3944.75	41.35	1.58
3.68	20.0	639.2	3957.43	41.48	1.55
3.61	20.0	638.3	3968.86	41.53	1.55
3.54	20.1	637.1	3984.12	41.62	1.55
3.41	20.1	636.4	3993.03	41.57	1.54
3.30	20.3	635.3	4007.04	41.60	1.54
3.22	20.6	634.2	4021.08	41.66	1.56
3.12	21.1	633.1	4035.13	41.71	1.59
2.98	22.2	632.0	4049.21	41.70	1.66
2.87	23.4	630.9	4063.30	41.73	1.74
2.71	24.2	630.2	4072.27	41.65	1.78
2.61	23.5	629.4	4082.54	41.65	1.72
2.48	23.5	627.2	4110.83	41.82	1.71
2.34	24.4	626.6	4118.56	41.75	1.76
2.08	26.0	623.1	4163.75	41.95	1.85
1.89	25.7	619.9	4205.27	42.20	1.81
1.77	25.3	619.2	4214.37	42.16	1.77
1.66	25.1	618.5	4223.48	42.14	1.74
1.55	24.6	617.5	4236.51	42.16	1.70
1.48	24.4	616.3	4252.17	42.25	1.68
1.40	26.9	615.3	4265.23	42.31	1.84
1.30	28.1	613.9	4283.56	42.40	1.92
1.20	28.8	613.1	4294.04	42.40	1.95
1.10	29.6	611.8	4311.11	42.48	2.00



CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
0.96	29.7	610.7	4325.57	42.48	1.99
0.84	29.7	609.3	4344.00	42.55	1.97
0.74	28.8	608.6	4353.23	42.54	1.90
0.62	28.7	607.3	4370.39	42.59	1.88
0.52	28.1	606.3	4383.61	42.63	1.83
0.47	25.8	604.6	4406.12	42.82	1.68
0.46	25.4	603.2	4424.71	43.02	1.66
0.38	25.8	601.7	4444.67	43.15	1.68
0.11	26.0	599.6	4472.68	43.16	1.67
0.08	26.2	598.6	4486.04	43.27	1.68
0.04	26.5	597.6	4499.43	43.38	1.69
0.03	25.1	596.7	4511.49	43.50	1.61
0.04	26.7	595.3	4530.29	43.73	1.71
0.04	30.2	594.4	4542.41	43.86	1.94
-0.03	33.7	593.5	4554.54	43.92	2.16
-0.08	35.5	592.3	4570.74	44.05	2.27
-0.17	35.8	591.2	4585.61	44.11	2.28
-0.28	36.7	590.2	4599.16	44.14	2.32
-0.38	36.9	589.0	4615.44	44.20	2.32
-0.50	37.1	588.1	4627.66	44.20	2.32
-0.61	37.5	587.0	4642.62	44.24	2.33
-0.71	37.7	586.1	4654.88	44.27	2.33
-0.86	38.0	584.6	4675.34	44.33	2.33
-0.97	38.2	584.1	4682.16	44.27	2.32
-1.07	38.4	582.9	4698.57	44.34	2.32
-1.18	39.4	582.3	4706.78	44.31	2.37
-1.32	40.1	580.0	4738.33	44.51	2.39
-1.36	37.4	579.0	4752.07	44.62	2.23
-1.39	36.1	578.0	4765.84	44.74	2.15
-1.48	36.5	576.8	4782.40	44.82	2.16
-1.61	40.3	575.9	4794.83	44.81	2.37
-1.77	40.9	575.0	4807.27	44.77	2.38
-1.95	46.6	573.8	4823.89	44.75	2.69
-2.04	49.9	572.9	4836.37	44.78	2.86
-2.15	53.4	572.1	4847.48	44.78	3.04
-2.26	54.1	571.0	4862.77	44.83	3.06
-2.59	69.0	568.8	4893.43	44.79	3.83
-2.77	74.0	568.0	4904.60	44.71	4.06
-2.92	73.0	567.1	4917.17	44.67	3.97
-3.05	79.1	566.2	4929.77	44.67	4.27
-3.08	85.1	565.2	4943.78	44.79	4.59
-3.05	90.9	564.2	4957.82	44.99	4.93
-2.95	91.2	562.9	4976.12	45.32	4.99
-2.82	88.2	561.9	4990.22	45.63	4.88

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-2.84	85.2	560.9	5004.36	45.77	4.72
-2.87	83.5	560.3	5012.85	45.83	4.62
-2.90	82.2	559.2	5028.44	45.98	4.54
-2.97	81.7	558.1	5044.06	46.07	4.50
-3.08	83.6	557.1	5058.28	46.11	4.58
-3.18	85.0	556.4	5068.24	46.10	4.62
-3.29	85.6	555.6	5079.64	46.10	4.63
-3.38	86.4	554.8	5091.06	46.13	4.64
-3.45	85.8	554.0	5102.48	46.18	4.59
-3.46	82.6	553.1	5115.35	46.31	4.43
-3.23	68.5	552.2	5128.25	46.74	3.74
-3.13	58.3	551.6	5136.86	46.95	3.20
-3.06	40.3	550.5	5152.66	47.22	2.23
-3.02	32.3	550.1	5158.42	47.33	1.79
-3.05	41.1	549.4	5168.50	47.42	2.28
-3.13	61.4	548.6	5180.04	47.45	3.39
-3.15	66.7	547.9	5190.15	47.55	3.69
-3.16	58.5	547.3	5198.83	47.64	3.23
-3.17	60.7	546.3	5213.31	47.79	3.36
-3.23	61.3	545.4	5226.36	47.87	3.38
-3.34	65.1	544.2	5243.80	47.94	3.57
-3.46	65.5	543.4	5255.44	47.94	3.57
-3.53	72.2	542.6	5267.10	47.99	3.92
-3.51	78.9	541.6	5281.69	48.18	4.30
-3.60	81.1	541.2	5287.54	48.14	4.39
-3.61	78.7	539.9	5306.56	48.35	4.27
-3.66	76.3	539.6	5310.96	48.34	4.13
-3.73	73.0	538.9	5321.22	48.38	3.93
-3.76	70.5	537.6	5340.32	48.56	3.80
-3.74	70.6	537.2	5346.20	48.66	3.81
-3.73	72.8	536.2	5360.93	48.84	3.94
-3.79	72.0	535.2	5375.68	48.94	3.89
-3.89	71.7	534.6	5384.55	48.92	3.84
-4.09	72.3	531.8	5426.02	49.17	3.84
-4.15	69.4	531.5	5430.47	49.15	3.67
-4.17	66.2	530.7	5442.36	49.26	3.50
-4.29	65.5	529.5	5460.21	49.33	3.44
-4.38	65.6	528.7	5472.14	49.36	3.43
-4.56	68.8	527.6	5488.55	49.34	3.55
-4.69	68.0	526.7	5502.00	49.34	3.48
-4.76	66.3	525.8	5515.47	49.41	3.38
-4.91	67.4	524.9	5528.95	49.39	3.41
-4.99	64.9	523.8	5545.45	49.49	3.27
-5.05	61.7	523.0	5557.47	49.55	3.09

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-5.15	61.4	522.1	5571.01	49.59	3.06
-5.27	61.4	521.3	5583.06	49.59	3.04
-5.37	61.6	520.0	5602.67	49.70	3.03
-5.46	61.7	519.1	5616.27	49.75	3.02
-5.50	62.0	518.6	5623.84	49.79	3.03
-5.59	66.3	517.1	5646.57	49.95	3.23
-5.64	68.9	516.2	5660.24	50.05	3.35
-5.71	68.4	514.8	5681.55	50.22	3.32
-5.75	65.7	514.7	5683.07	50.19	3.17
-5.79	65.1	513.3	5704.43	50.39	3.14
-5.87	65.7	512.1	5722.78	50.51	3.16
-5.83	62.2	511.5	5731.97	50.67	3.01
-5.89	60.1	510.6	5745.77	50.76	2.89
-5.98	57.5	509.5	5762.67	50.85	2.76
-5.95	43.9	508.8	5773.44	51.01	2.11
-5.94	38.7	507.6	5791.93	51.24	1.86
-6.00	35.3	506.6	5807.37	51.35	1.70
-6.04	36.9	505.4	5825.93	51.53	1.77
-6.14	37.4	504.2	5844.54	51.63	1.79
-6.21	37.6	503.6	5853.85	51.65	1.79
-6.34	38.7	502.3	5874.07	51.73	1.83
-6.44	38.5	501.7	5883.41	51.72	1.81
-6.49	36.1	500.5	5902.12	51.88	1.69
-6.61	35.5	499.2	5922.44	51.98	1.65
-6.74	36.2	497.6	5947.51	52.12	1.67
-6.82	33.3	497.1	5955.35	52.11	1.53
-6.93	31.7	495.7	5977.35	52.24	1.45
-7.09	32.0	495.0	5988.37	52.18	1.45
-7.24	32.2	493.9	6005.71	52.20	1.44
-7.39	31.9	493.0	6019.92	52.19	1.41
-7.74	30.8	490.4	6061.06	52.25	1.34
-7.88	30.6	489.2	6080.10	52.31	1.32
-8.00	26.5	488.0	6099.18	52.39	1.13
-8.10	25.0	487.3	6110.33	52.40	1.06
-8.23	24.0	486.6	6121.49	52.37	1.01
-8.31	23.1	485.5	6139.04	52.49	0.97
-8.44	21.5	484.9	6148.63	52.44	0.89
-8.57	22.8	483.9	6164.64	52.47	0.94
-8.73	24.2	482.8	6182.27	52.49	0.99
-8.90	25.4	481.9	6196.71	52.45	1.02
-9.02	26.8	480.7	6216.01	52.54	1.07
-9.16	28.1	480.1	6225.67	52.48	1.11
-9.29	28.8	478.9	6245.01	52.55	1.13
-9.40	25.9	477.9	6261.17	52.61	1.01

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.52	26.6	475.2	6304.93	52.99	1.04
-9.74	17.5	474.1	6322.81	52.94	0.67
-9.83	17.5	473.1	6339.10	53.02	0.67
-9.99	18.2	472.4	6350.51	52.96	0.69
-10.16	18.0	471.3	6368.47	52.97	0.67
-10.31	17.8	470.4	6383.19	52.96	0.66
-10.49	17.8	469.7	6394.64	52.88	0.65
-10.62	17.9	468.3	6417.60	52.99	0.65
-10.73	17.7	468.1	6420.88	52.90	0.63
-10.80	17.6	467.2	6435.67	52.99	0.63
-10.92	17.7	466.2	6452.13	53.04	0.63
-11.01	18.6	465.4	6465.31	53.09	0.66
-11.09	18.8	464.5	6480.17	53.17	0.66
-11.20	19.0	463.8	6491.74	53.17	0.66
-11.33	19.3	462.8	6508.29	53.21	0.67
-11.42	18.9	462.0	6521.56	53.26	0.65
-11.46	18.2	461.9	6523.22	53.23	0.62
-11.53	19.2	460.9	6539.82	53.35	0.66
-11.59	30.5	460.0	6554.80	53.45	1.04
-11.63	56.7	459.1	6569.80	53.59	1.93
-11.70	60.7	458.7	6576.48	53.58	2.06
-11.77	66.9	457.9	6589.86	53.66	2.26
-11.84	74.5	456.7	6609.96	53.82	2.51
-11.83	82.7	456.0	6621.71	53.97	2.80
-11.91	85.5	455.7	6626.76	53.93	2.88
-11.94	88.0	453.9	6657.07	54.27	2.96
-12.09	89.1	453.4	6665.51	54.18	2.97
-12.05	88.3	452.8	6675.65	54.35	2.96
-11.88	85.9	452.1	6687.50	54.71	2.92
-11.90	89.2	451.5	6697.68	54.81	3.03
-11.96	91.0	450.5	6714.66	54.95	3.08
-12.04	91.2	449.8	6726.57	54.99	3.08
-12.08	90.6	449.1	6738.50	55.09	3.05
-12.10	89.6	448.3	6752.15	55.23	3.02
-12.14	89.1	447.8	6760.69	55.28	2.99
-12.21	89.2	446.9	6776.09	55.38	2.99
-12.31	89.5	445.9	6793.22	55.47	2.98
-12.37	89.8	445.3	6803.52	55.52	2.98
-12.48	89.8	444.5	6817.27	55.55	2.96
-12.47	89.1	443.7	6831.04	55.73	2.94
-12.43	79.8	442.9	6844.84	55.95	2.65
-12.47	70.0	442.0	6860.38	56.09	2.32
-12.55	65.4	441.3	6872.49	56.14	2.15
-12.63	61.9	440.5	6886.35	56.21	2.03

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-12.70	51.4	439.6	6901.96	56.32	1.68
-12.83	54.8	438.9	6914.12	56.30	1.77
-12.90	47.7	437.9	6931.52	56.43	1.54
-12.98	45.4	437.0	6947.20	56.52	1.46
-13.08	45.5	436.2	6961.17	56.57	1.45
-13.24	47.0	435.4	6975.15	56.54	1.48
-13.37	45.7	434.3	6994.41	56.61	1.43
-13.47	44.6	433.2	7013.70	56.72	1.39
-13.60	52.0	432.5	7026.00	56.71	1.60
-13.70	53.2	431.7	7040.08	56.76	1.63
-13.83	51.3	430.9	7054.18	56.77	1.56
-13.98	52.3	429.8	7073.59	56.82	1.57
-14.12	53.5	428.8	7091.28	56.86	1.59
-14.25	54.4	427.7	7110.77	56.94	1.61
-14.40	54.3	426.8	7126.74	56.94	1.59
-14.53	52.7	426.2	7137.41	56.91	1.53
-14.68	51.2	425.3	7153.42	56.92	1.47
-14.81	50.1	424.4	7169.46	56.95	1.42
-14.95	50.0	423.5	7185.52	56.97	1.41
-15.07	49.9	422.5	7203.40	57.04	1.39
-15.20	50.0	421.7	7217.72	57.06	1.39
-15.28	51.8	420.7	7235.66	57.18	1.43
-15.38	40.6	419.9	7250.04	57.23	1.11
-15.31	21.3	419.1	7264.44	57.50	0.59
-15.38	19.8	418.3	7278.86	57.59	0.54
-15.46	19.8	417.2	7298.73	57.74	0.54
-15.50	20.1	416.4	7313.22	57.87	0.55
-15.52	20.0	415.6	7327.72	58.02	0.55
-15.61	20.1	415.1	7336.80	58.02	0.55
-15.75	20.3	414.0	7356.81	58.09	0.55
-15.84	20.7	413.3	7369.56	58.14	0.55
-15.96	20.8	412.5	7384.16	58.17	0.55
-16.08	20.9	411.7	7398.77	58.20	0.55
-16.17	21.1	410.8	7415.24	58.29	0.55
-16.34	21.2	409.8	7433.58	58.30	0.55
-16.44	21.4	409.1	7446.43	58.33	0.55
-16.58	21.5	408.2	7462.98	58.36	0.55
-16.68	21.6	407.3	7479.56	58.44	0.55
-16.79	21.8	406.7	7490.63	58.44	0.55
-16.90	21.8	406.2	7499.86	58.41	0.54
-17.02	21.9	405.2	7518.35	58.49	0.54
-17.13	21.9	404.4	7533.17	58.54	0.54
-17.25	22.0	403.5	7549.87	58.59	0.54
-17.38	22.1	403.0	7559.16	58.54	0.53

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-17.49	22.3	402.2	7574.04	58.59	0.53
-17.61	22.4	401.3	7590.80	58.64	0.53
-17.73	22.4	400.4	7607.60	58.70	0.53
-17.84	22.7	399.5	7624.43	58.77	0.53
-18.05	22.8	398.4	7645.03	58.76	0.53
-18.20	22.9	397.8	7656.28	58.71	0.52
-18.07	22.8	397.0	7671.32	59.07	0.53
-18.06	22.8	396.5	7680.73	59.20	0.53
-18.07	22.8	395.5	7699.59	59.43	0.53
-18.13	22.9	394.8	7712.82	59.52	0.53
-18.24	23.0	394.3	7722.28	59.49	0.53
-18.26	23.2	393.3	7741.24	59.71	0.53
-18.35	23.7	392.5	7756.43	59.79	0.54
-18.39	24.4	391.7	7771.65	59.93	0.56
-18.47	24.9	391.1	7783.09	59.97	0.56
-18.53	25.1	390.4	7796.44	60.06	0.57
-18.61	25.3	389.5	7813.65	60.18	0.57
-18.75	25.5	388.7	7828.97	60.19	0.57
-18.86	25.6	388.4	7834.72	60.12	0.56
-18.96	25.7	387.5	7851.99	60.21	0.56
-19.13	25.8	386.6	7869.29	60.21	0.56
-19.24	26.2	385.8	7884.70	60.26	0.56
-19.42	26.4	385.1	7898.19	60.20	0.56
-19.50	26.8	384.1	7917.51	60.34	0.57
-19.62	27.4	383.5	7929.12	60.33	0.57
-19.64	26.6	382.7	7944.62	60.50	0.56
-19.78	26.2	381.9	7960.15	60.52	0.54
-19.94	26.5	380.8	7981.54	60.58	0.54
-19.91	26.9	380.4	7989.34	60.72	0.55
-20.06	27.0	379.8	8001.04	60.68	0.55
-20.26	27.3	378.2	8032.31	60.82	0.55
-20.40	27.6	377.2	8051.91	60.88	0.55
-20.48	27.9	376.2	8071.56	61.03	0.55
-20.64	28.5	375.8	8079.42	60.92	0.56
-20.78	29.0	375.0	8095.18	60.94	0.56
-20.91	29.4	374.1	8112.93	61.00	0.56
-21.10	30.0	373.8	8118.85	60.82	0.57
-21.22	30.4	372.8	8138.62	60.92	0.57
-21.41	30.8	372.1	8152.48	60.85	0.57
-21.53	31.6	371.2	8170.33	60.92	0.58
-21.65	32.2	370.5	8184.23	60.94	0.58
-21.75	32.5	369.8	8198.15	60.99	0.59
-21.82	32.6	368.9	8216.09	61.13	0.58
-21.95	32.6	368.3	8228.07	61.11	0.58

### CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-22.03	32.4	367.4	8246.06	61.24	0.57
-22.23	32.3	366.7	8260.08	61.15	0.56
-22.32	31.5	366.1	8272.11	61.19	0.54
-22.39	31.0	364.9	8296.22	61.41	0.53
-22.50	31.0	364.2	8310.31	61.45	0.53
-22.59	30.5	363.7	8320.40	61.46	0.52
-22.73	29.4	363.1	8332.51	61.43	0.49
-22.80	28.3	362.3	8348.68	61.55	0.47
-22.95	27.8	361.5	8364.88	61.56	0.46
-23.10	27.4	360.9	8377.04	61.52	0.45
-23.19	27.2	359.9	8397.35	61.66	0.44
-23.31	27.0	359.1	8413.64	61.72	0.44
-23.46	26.8	358.5	8425.86	61.67	0.43
-23.57	26.7	357.9	8438.11	61.69	0.42
-23.74	26.7	356.9	8458.55	61.73	0.42
-23.88	26.8	356.3	8470.83	61.70	0.41
-24.09	26.7	355.5	8487.23	61.63	0.41
-24.18	26.6	354.7	8503.65	61.73	0.40
-24.25	26.6	353.8	8522.17	61.88	0.40
-24.44	26.6	353.0	8538.66	61.84	0.39
-24.54	26.7	352.4	8551.05	61.87	0.39
-24.71	26.7	351.8	8563.45	61.80	0.39
-24.78	26.7	351.0	8580.01	61.92	0.39
-24.93	26.8	350.1	8598.67	61.97	0.38
-25.06	26.8	349.5	8611.13	61.96	0.38
-25.25	26.9	348.7	8627.77	61.92	0.38
-25.35	27.0	347.9	8644.44	62.00	0.37
-25.57	27.1	347.2	8659.05	61.90	0.37
-25.75	27.3	346.5	8673.67	61.85	0.37
-25.78	27.4	345.7	8690.41	62.03	0.37
-25.96	27.5	344.8	8709.29	62.04	0.36
-26.10	27.5	344.1	8723.99	62.04	0.36
-26.22	27.2	343.4	8738.72	62.07	0.35
-26.25	27.1	342.6	8755.58	62.26	0.35
-26.39	27.0	341.8	8772.47	62.29	0.35
-26.55	26.9	341.0	8789.40	62.30	0.34
-26.54	26.9	340.3	8804.23	62.51	0.34
-26.71	26.9	339.5	8821.22	62.50	0.34
-26.80	26.8	338.9	8833.98	62.55	0.33
-27.01	26.8	338.1	8851.02	62.49	0.33
-27.11	26.6	337.3	8868.09	62.58	0.32
-27.15	26.4	336.4	8887.33	62.78	0.32
-27.26	26.1	335.7	8902.33	62.83	0.31
-27.30	25.7	335.0	8917.36	62.98	0.31

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-27.39	25.3	334.2	8934.56	63.09	0.30
-27.50	25.2	333.5	8949.65	63.14	0.30
-27.50	24.9	332.6	8969.08	63.40	0.30
-27.71	24.6	332.1	8979.90	63.26	0.29
-27.78	24.4	331.2	8999.39	63.42	0.28
-27.87	24.2	330.5	9014.59	63.50	0.28
-27.97	24.0	329.9	9027.64	63.54	0.28
-28.02	23.9	329.0	9047.24	63.73	0.27
-28.24	24.1	328.4	9060.34	63.61	0.27
-28.41	24.1	327.7	9075.63	63.58	0.27
-28.70	24.1	326.9	9093.14	63.41	0.26
-28.52	24.2	326.1	9110.68	63.90	0.27
-28.67	24.4	325.7	9119.47	63.81	0.27
-28.69	25.9	324.9	9137.07	64.02	0.28
-29.16	28.9	324.1	9154.69	63.61	0.30
-29.19	31.4	323.1	9176.77	63.86	0.33
-29.44	33.0	322.5	9190.04	63.70	0.34
-29.41	34.5	321.8	9205.54	63.95	0.35
-29.39	37.1	320.8	9227.76	64.28	0.38
-29.57	39.7	320.1	9243.34	64.24	0.40
-29.51	42.1	319.2	9263.42	64.59	0.43
-29.53	43.5	318.5	9279.08	64.78	0.45
-29.49	44.5	317.9	9292.53	65.02	0.46
-29.61	46.0	317.2	9308.26	65.06	0.47
-29.93	45.6	316.6	9321.75	64.80	0.45
-29.98	43.5	316.2	9330.75	64.85	0.43
-29.90	42.1	315.3	9351.05	65.24	0.42
-30.05	41.1	314.6	9366.87	65.25	0.41
-30.26	41.5	314.1	9378.19	65.11	0.40
-30.33	42.4	313.4	9394.06	65.23	0.41
-30.11	44.9	312.6	9412.24	65.78	0.44
-30.47	45.3	312.0	9425.90	65.46	0.43
-30.83	48.3	311.2	9444.13	65.21	0.45
-30.72	52.0	310.5	9460.11	65.58	0.49
-31.05	54.4	309.8	9476.12	65.34	0.50
-31.08	56.4	309.0	9494.45	65.55	0.51
-31.32	57.3	308.5	9505.92	65.37	0.51
-31.26	57.1	307.8	9522.01	65.67	0.51
-31.13	55.5	307.2	9535.83	66.04	0.51
-31.06	53.2	306.9	9542.76	66.24	0.49
-31.19	52.5	306.0	9563.57	66.34	0.48
-31.59	52.0	305.2	9582.10	66.03	0.46
-31.59	52.2	305.0	9586.74	66.10	0.46
-31.83	53.0	303.6	9619.26	66.21	0.46



### CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-31.83	51.4	303.3	9626.25	66.30	0.44
-31.84	50.4	302.5	9644.91	66.54	0.44
-32.00	49.5	302.1	9654.25	66.45	0.42
-32.04	50.2	301.3	9672.97	66.65	0.43
-32.17	51.6	300.9	9682.35	66.59	0.43
-32.31	52.6	300.1	9701.13	66.66	0.44
-32.52	52.5	299.1	9724.66	66.68	0.43
-32.52	52.1	298.7	9734.08	66.81	0.43
-32.42	51.9	298.0	9750.62	67.18	0.43
-32.39	51.6	297.5	9762.46	67.39	0.43
-32.57	51.3	297.1	9771.94	67.27	0.42
-32.65	51.2	296.8	9779.05	67.25	0.42
-32.88	51.3	296.3	9790.92	67.09	0.41
-33.19	51.2	295.5	9809.93	66.91	0.40
-33.08	51.1	295.1	9819.44	67.20	0.40
-33.04	50.7	294.4	9836.14	67.49	0.40
-32.97	51.2	293.9	9848.09	67.75	0.41
-33.09	51.5	293.4	9860.06	67.75	0.41
-33.37	51.5	293.1	9867.25	67.45	0.40
-33.48	51.1	292.4	9884.03	67.53	0.39
-34.01	50.7	291.9	9896.03	66.94	0.37
-34.04	50.1	291.1	9915.24	67.17	0.36
-33.95	45.0	290.8	9922.46	67.39	0.33
-34.14	43.5	289.9	9944.16	67.43	0.31
-34.27	41.1	289.6	9951.40	67.34	0.29
-34.55	37.3	289.0	9965.90	67.14	0.26
-34.20	34.9	288.5	9978.01	67.81	0.25
-34.32	33.1	288.0	9990.14	67.81	0.24
-34.50	31.1	287.6	9999.85	67.69	0.22
-34.53	29.5	287.0	10014.44	67.85	0.21
-34.59	28.3	286.4	10029.06	67.97	0.20
-34.33	27.5	286.0	10038.83	68.48	0.20
-35.17	26.7	285.5	10051.04	67.44	0.18
-34.91	26.2	285.0	10063.26	67.99	0.18
-35.03	25.7	284.4	10077.95	68.02	0.17
-35.17	25.3	283.8	10092.67	68.03	0.17
-35.16	25.0	283.3	10104.95	68.21	0.17
-35.37	24.8	282.7	10119.72	68.12	0.16
-35.64	24.5	282.2	10132.03	67.90	0.16
-35.68	24.4	281.6	10146.83	68.05	0.16
-35.92	24.2	281.2	10156.71	67.85	0.15
-35.87	24.1	280.8	10166.60	68.06	0.15
-36.20	24.0	279.9	10188.88	67.90	0.15
-35.95	23.9	279.5	10198.81	68.40	0.15

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-36.49	23.8	278.8	10216.20	67.86	0.14
-36.71	23.8	278.3	10228.63	67.72	0.14
-36.74	23.7	277.3	10253.54	68.03	0.14
-37.03	23.5	276.2	10281.03	68.00	0.13
-37.15	23.4	275.8	10291.05	67.97	0.13
-37.25	23.3	275.3	10303.58	68.00	0.13
-37.43	23.4	274.8	10316.13	67.92	0.13
-37.49	23.2	274.1	10333.73	68.08	0.13
-37.58	23.2	273.4	10351.37	68.20	0.13
-37.55	23.2	273.0	10361.46	68.38	0.13
-37.72	23.3	272.3	10379.17	68.39	0.12
-37.42	23.3	271.8	10391.84	69.00	0.13
-37.79	23.3	271.1	10409.62	68.72	0.12
-38.07	23.3	270.8	10417.25	68.42	0.12
-38.09	23.3	269.9	10440.16	68.72	0.12
-38.64	23.3	269.3	10455.45	68.13	0.11
-38.30	23.2	268.7	10470.77	68.85	0.12
-38.50	23.1	268.0	10488.70	68.81	0.12
-38.51	23.0	267.3	10506.67	69.05	0.12
-38.63	22.9	267.2	10509.24	68.91	0.11
-38.99	22.8	266.1	10537.53	68.79	0.11
-38.90	22.8	266.0	10540.11	68.96	0.11
-38.99	22.7	265.3	10558.18	69.08	0.11
-39.69	22.7	264.5	10578.85	68.36	0.10
-39.58	22.5	263.1	10615.13	69.04	0.10
-39.30	22.3	262.6	10628.14	69.63	0.10
-39.57	22.2	261.8	10649.02	69.54	0.10
-39.83	22.2	261.1	10667.31	69.42	0.10
-39.88	22.2	260.4	10685.65	69.61	0.10
-40.02	22.2	259.8	10701.40	69.63	0.10
-40.28	22.2	259.2	10717.17	69.47	0.10
-40.38	22.2	258.8	10727.69	69.48	0.09
-40.28	22.2	258.2	10743.51	69.85	0.10
-40.70	22.3	257.0	10775.24	69.69	0.09
-40.95	22.3	256.9	10777.89	69.36	0.09
-41.09	22.4	256.4	10791.12	69.34	0.09
-41.20	22.4	255.6	10812.35	69.49	0.09
-41.41	22.4	254.8	10833.62	69.48	0.09
-41.35	22.3	254.3	10846.95	69.76	0.09
-41.51	22.4	253.5	10868.32	69.84	0.09
-41.54	22.6	253.1	10879.03	69.95	0.09
-41.57	22.6	252.5	10895.12	70.13	0.09
-41.70	22.4	251.8	10913.94	70.21	0.09
-41.61	22.3	251.3	10927.41	70.54	0.09

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-41.82	22.2	250.5	10949.01	70.54	0.08
-42.41	22.2	250.0	10962.52	69.86	0.08
-42.73	22.2	249.2	10984.15	69.70	0.08
-42.75	22.2	248.4	11005.84	69.99	0.08
-42.72	22.1	247.8	11022.15	70.27	0.08
-42.97	22.1	247.3	11035.77	70.10	0.07
-42.94	22.1	246.6	11054.87	70.42	0.08
-42.74	21.9	245.7	11079.52	71.08	0.08
-42.91	22.0	244.7	11107.02	71.22	0.08
-43.51	21.9	244.2	11120.79	70.53	0.07
-43.51	22.0	243.7	11134.57	70.73	0.07
-43.87	21.9	242.9	11156.65	70.51	0.07
-43.98	21.9	242.3	11173.25	70.59	0.07
-43.85	21.9	241.7	11189.89	71.03	0.07
-43.92	21.9	241.3	11201.00	71.09	0.07
-43.99	21.9	240.6	11220.49	71.27	0.07
-44.05	22.0	240.0	11237.24	71.43	0.07
-44.14	22.0	239.6	11248.43	71.45	0.07
-44.55	21.9	238.8	11270.83	71.17	0.06
-44.72	22.0	238.4	11282.04	71.08	0.06
-44.70	22.0	237.9	11296.08	71.31	0.06
-44.79	22.0	237.3	11312.97	71.43	0.06
-45.06	22.1	236.7	11329.88	71.27	0.06
-45.21	22.1	236.4	11338.34	71.17	0.06
-45.14	22.2	235.6	11360.97	71.61	0.06
-45.48	22.2	235.1	11375.14	71.30	0.06
-45.29	22.2	234.7	11386.49	71.76	0.06
-45.54	22.2	234.0	11406.40	71.67	0.06
-45.97	22.2	233.5	11420.64	71.23	0.06
-45.91	22.3	232.8	11440.61	71.62	0.06
-46.01	22.3	232.5	11449.19	71.59	0.06
-46.19	22.3	231.8	11469.23	71.62	0.06
-46.41	22.3	231.4	11480.70	71.45	0.06
-46.49	22.4	230.7	11500.80	71.63	0.05
-46.57	22.4	230.2	11515.19	71.72	0.05
-46.49	22.5	229.7	11529.62	72.06	0.06
-47.09	22.6	229.1	11546.95	71.40	0.05
-47.03	22.6	228.6	11561.41	71.71	0.05
-47.05	22.6	228.0	11578.80	71.94	0.05
-47.06	22.6	227.4	11596.24	72.18	0.05
-47.27	22.7	227.1	11604.98	71.99	0.05
-47.39	22.8	226.7	11616.63	71.98	0.05
-47.44	22.9	225.8	11642.92	72.30	0.05
-47.61	23.0	225.1	11663.42	72.35	0.05

CSI Profile: STA2RS07

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-47.89	23.1	224.7	11675.16	72.09	0.05
-47.41	23.2	224.1	11692.81	73.09	0.05
-47.81	23.3	223.6	11707.56	72.70	0.05
-47.94	23.5	223.3	11716.41	72.63	0.05
-48.01	23.5	222.6	11737.10	72.84	0.05
-48.39	23.6	222.4	11743.02	72.34	0.05
-48.34	23.7	221.8	11760.80	72.69	0.05
-48.48	23.8	221.0	11784.57	72.83	0.05
-48.77	23.9	220.8	11790.52	72.47	0.05
-48.82	24.0	220.2	11808.39	72.66	0.05
-48.53	24.1	219.9	11817.35	73.25	0.05
-48.64	24.2	219.3	11835.31	73.35	0.05
-48.89	24.4	219.0	11844.30	73.10	0.05
-48.92	24.4	218.7	11853.30	73.19	0.05
-49.11	24.5	218.0	11874.34	73.21	0.05
-49.20	24.6	217.6	11886.38	73.25	0.05
-49.41	24.6	217.2	11898.43	73.11	0.05
-49.81	24.7	216.8	11910.50	72.67	0.04
-49.85	24.9	216.4	11922.57	72.79	0.04
-49.91	24.9	215.9	11937.69	72.93	0.04
-50.05	25.0	215.4	11952.83	72.94	0.04
-50.47	25.1	215.1	11961.93	72.43	0.04
-50.55	25.2	214.4	11983.17	72.63	0.04
-50.70	25.2	213.8	12001.43	72.67	0.04
-50.97	25.3	213.4	12013.61	72.44	0.04
-50.95	25.4	212.8	12031.93	72.74	0.04
-50.66	25.5	212.5	12041.11	73.34	0.04
-50.94	25.6	212.0	12056.44	73.13	0.04
-50.79	25.7	211.7	12065.66	73.51	0.04
-51.33	25.7	211.1	12084.11	72.95	0.04
-51.67	25.8	210.6	12099.49	72.65	0.04
-51.74	25.9	210.0	12117.99	72.82	0.04
-52.17	26.0	209.7	12127.24	72.29	0.04
-52.17	26.1	209.1	12145.78	72.58	0.04
-51.80	26.2	208.6	12161.28	73.39	0.04
-51.73	26.3	208.2	12173.72	73.69	0.04
-52.12	26.4	207.8	12186.17	73.27	0.04
-52.44	26.5	207.1	12207.99	73.10	0.04
-52.48	26.6	206.6	12223.60	73.28	0.04
-52.72	26.7	206.0	12242.38	73.19	0.04
-52.92	26.9	205.6	12254.92	73.07	0.04
-53.57	26.9	205.2	12267.45	72.24	0.03
-53.10	27.0	205.0	12273.73	73.08	0.03
-53.02	27.1	204.2	12298.92	73.59	0.04

**CSI Profile: STA2RS07**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-52.99	27.2	203.8	12311.55	73.83	0.04
-53.19	27.3	203.2	12330.55	73.81	0.03
-53.72	27.3	202.8	12343.22	73.17	0.03
-53.87	27.3	202.2	12362.24	73.22	0.03
-53.45	27.4	202.0	12368.60	73.99	0.03
-54.03	27.3	201.5	12384.52	73.31	0.03
-54.02	27.3	201.1	12397.26	73.53	0.03
-54.23	27.2	200.5	12416.42	73.49	0.03
-54.22	27.3	200.0	12432.42	73.76	0.03
-54.49	27.2	199.6	12445.25	73.53	0.03
-54.66	27.2	199.1	12461.29	73.50	0.03
-54.72	27.2	198.8	12470.94	73.56	0.03
-54.76	27.2	198.4	12483.81	73.70	0.03
-54.86	27.2	198.0	12496.71	73.74	0.03
-54.83	27.2	197.6	12509.64	73.99	0.03



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA 2 R508

Radiosonde / Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_

Date 9-7-94 Ob Time 1921 CDT

Site Chandeleur Islander, Breton Island, LA

Observer Blanchard

Barometric Pressure:	<u>1018.5</u>	mBars
Dry-Bulb Temperature:	<u>28.3</u>	degrees C
Wet-Bulb Temperature:	<u>24.9</u>	degrees C
Relative Humidity:	<u>76</u>	percent
Wind Speed:	<u>5-10 est</u>	<del>knots</del> mph m/s
Wind Direction:	<u>E</u>	degrees M T
Sonde Battery Voltage:	<u>9.05</u>	VDC
Actual Time of Launch:	<u>1930 CDT</u>	

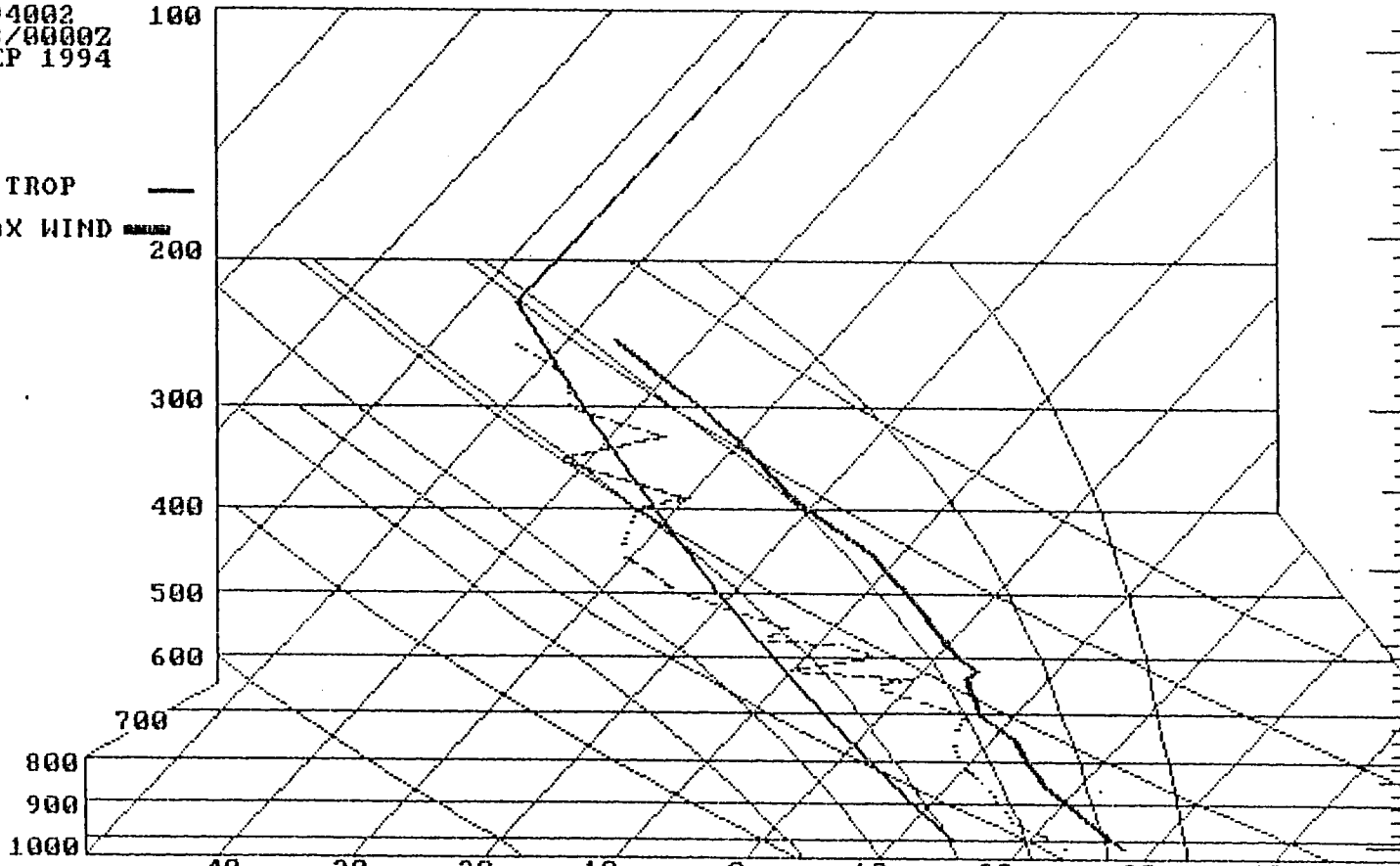
Comments: (Cloud cover, type, flight description, etc.)

H.V.U. 10676 R.D.U. 77.77  
3/8 cirrus, cirrocumulus  
Light haze.  
A.I.R. barometer ~ 1009.6 mb.

Additional Comments on Back

94002  
08/0000Z  
SEP 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU

USAF SKEW T, log p DIAGRAM

Mtrs/Sec

P = Printing...

D-167

Station Number: 94002

DTG of RAOB: 08/0000Z SEP 1994

Indices		Sfc Data: 1019mb T= 27.6°C Td= 23.3°C			Heights	
SSI	= 1.6				100mb	= MISC
K0	= -10.6				150mb	= MISC
K Index	= 35.1	Adiabatic Processes			200mb	= MISC
Lifted Index	= -1.5	Wet Bulb Zero	= 630mb	--	12578ft	250mb = 10920m
Sweat Index	= Missing	LCL	= 957mb	22.3°C	1564ft	300mb = 9680m
Total-Totals	= 42.9	LFC	= 899mb	20.1°C	3283ft	400mb = 7610m
U Totals	= 23.7	CCL	= 924mb	21.8°C	2529ft	500mb = 5920m
X Totals	= 19.2	Tc	= --	30.1°C	--	700mb = 3211m
Fog SI	= Missing	CCL E.L.	= None			850mb = 1584m
Fog Threat	= 0.9	LFC E.L.	= None			1000mb = 166m
Fog Point	= 19.2°C	850mb WBPT	= --	20.1°C	--	

Inversion Layers		Type	Break	Freezing Levels		Thickness	
573-	571mb	14941-15028ft	Subs	48.5°C	580mb	14630ft	500-300mb = 3760m
635-	623mb	12367-12848ft	Subs	45.8°C			700-500mb = 2709m
							850-500mb = 4336m
							850-700mb = 1627m
							1000-500mb = 5754m
							1000-700mb = 3045m
							1000-850mb = 1418m

Max Wind  
None Reported

Icing Layers		Intensity
Base	Top	
None		

Turbulence Layers		
Base	Top	Shear
None		

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKREW T Analysis

(All Heights MSL)

D-168



CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.59	77.5	1018.7	3.00	26.00	17.96
27.61	77.9	1018.4	5.62	26.05	18.08
27.68	78.1	1018.1	8.24	26.14	18.21
27.70	75.6	1016.8	19.62	26.27	17.66
27.62	75.4	1015.7	29.25	26.28	17.54
27.53	74.7	1014.8	37.13	26.27	17.30
27.46	74.7	1013.8	45.90	26.28	17.24
27.38	74.9	1012.6	56.43	26.31	17.23
27.30	75.0	1011.3	67.84	26.34	17.19
27.22	75.2	1010.5	74.87	26.32	17.17
27.13	75.4	1009.4	84.55	26.33	17.14
27.05	75.7	1008.3	94.23	26.34	17.15
26.96	76.0	1007.3	103.03	26.34	17.14
26.89	76.1	1006.1	113.61	26.37	17.12
26.81	76.7	1004.9	124.20	26.39	17.19
26.70	76.8	1003.7	134.80	26.38	17.12
26.61	77.3	1002.7	143.64	26.38	17.16
26.53	77.8	1001.3	156.02	26.42	17.22
26.44	78.0	1000.1	166.65	26.43	17.19
26.32	78.2	998.8	178.17	26.42	17.13
26.22	78.7	997.4	190.59	26.44	17.17
26.11	79.2	996.1	202.13	26.44	17.19
26.00	79.7	994.8	213.69	26.45	17.21
25.92	80.3	993.9	221.69	26.44	17.27
25.81	80.6	992.6	233.27	26.45	17.24
25.75	81.0	991.3	244.85	26.50	17.29
25.64	81.3	990.1	255.56	26.49	17.26
25.55	81.3	989.1	264.49	26.49	17.19
25.44	81.3	987.6	277.89	26.51	17.10
25.34	81.9	986.5	287.73	26.50	17.14
25.23	82.9	984.6	304.75	26.56	17.28
25.09	83.3	982.9	319.99	26.56	17.25
24.96	83.9	981.4	333.46	26.57	17.26
24.84	84.6	979.9	346.94	26.58	17.31
24.73	83.9	978.6	358.64	26.58	17.07
24.65	84.7	977.3	370.35	26.61	17.18
24.54	81.2	976.4	378.46	26.58	16.35
24.61	78.9	975.3	388.38	26.75	15.96
24.60	78.4	974.1	399.21	26.84	15.87
24.56	77.8	973.3	406.44	26.87	15.72
24.51	77.5	972.2	416.38	26.92	15.63
24.42	77.9	971.1	426.34	26.93	15.64
24.35	77.7	970.3	433.58	26.93	15.55
24.27	78.2	969.5	440.83	26.92	15.59

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
24.18	78.4	968.5	449.90	26.91	15.56
24.12	78.2	967.5	458.97	26.94	15.48
24.07	77.8	966.7	466.24	26.96	15.36
24.03	77.4	965.5	477.14	27.03	15.26
23.93	78.6	964.4	487.15	27.03	15.43
23.85	78.7	963.3	497.16	27.04	15.39
23.74	79.3	962.3	506.28	27.02	15.42
23.66	79.4	961.2	516.31	27.04	15.39
23.57	78.9	960.0	527.26	27.05	15.22
23.50	79.1	959.2	534.56	27.06	15.21
23.43	79.3	958.0	545.53	27.09	15.20
23.35	78.2	956.8	556.51	27.12	14.93
23.43	75.8	955.8	565.67	27.29	14.55
23.40	75.6	954.8	574.83	27.35	14.50
23.33	75.6	953.6	585.84	27.39	14.45
23.27	75.1	952.8	593.19	27.40	14.32
23.35	71.2	951.7	603.30	27.58	13.64
23.39	70.3	950.7	612.50	27.71	13.51
23.39	70.3	949.8	620.79	27.79	13.52
23.46	70.0	948.8	630.01	27.95	13.54
23.42	69.9	947.8	639.24	28.00	13.50
23.46	69.2	946.9	647.55	28.12	13.41
23.52	68.2	946.2	654.02	28.25	13.27
23.52	67.8	945.3	662.35	28.33	13.20
23.49	67.4	944.6	668.84	28.36	13.11
23.45	67.1	943.7	677.18	28.41	13.03
23.38	67.0	942.6	687.38	28.44	12.97
23.32	66.9	941.9	693.88	28.44	12.91
23.27	67.4	940.7	705.03	28.50	12.99
23.17	69.4	939.6	715.26	28.50	13.31
23.09	69.6	938.7	723.64	28.50	13.30
23.02	69.6	937.9	731.09	28.50	13.25
22.94	69.6	936.9	740.41	28.51	13.20
22.87	69.6	935.8	750.67	28.54	13.16
22.80	69.6	934.9	759.07	28.55	13.12
22.73	69.5	934.0	767.48	28.56	13.05
22.67	69.5	933.0	776.83	28.60	13.02
22.63	69.6	931.9	787.13	28.66	13.02
22.55	69.6	930.9	796.49	28.67	12.97
22.48	69.7	930.0	804.93	28.68	12.95
22.40	69.7	929.1	813.37	28.68	12.90
22.35	69.8	928.0	823.70	28.73	12.89
22.26	69.9	927.2	831.22	28.72	12.85
22.20	70.0	926.1	841.56	28.76	12.84

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
22.14	70.0	925.2	850.03	28.78	12.80
22.07	69.7	924.2	859.45	28.80	12.70
22.02	69.8	923.3	867.93	28.83	12.70
21.94	69.8	922.3	877.36	28.85	12.65
21.88	70.0	921.1	888.69	28.90	12.65
21.82	70.1	920.1	898.14	28.93	12.64
21.74	70.3	919.4	904.76	28.91	12.62
21.68	70.5	918.3	915.18	28.96	12.63
21.60	70.6	917.3	924.65	28.97	12.60
21.54	70.6	916.2	935.08	29.01	12.56
21.47	70.6	915.3	943.62	29.02	12.52
21.39	70.8	914.3	953.12	29.04	12.51
21.33	70.9	913.3	962.62	29.07	12.50
21.25	71.2	912.2	973.09	29.09	12.50
21.18	71.5	911.5	979.75	29.08	12.51
21.11	72.0	910.3	991.19	29.13	12.56
21.04	72.2	909.6	997.86	29.12	12.55
20.97	72.2	908.6	1007.40	29.14	12.51
20.92	72.1	907.5	1017.91	29.20	12.47
20.84	71.9	906.6	1026.51	29.20	12.38
20.78	71.7	905.7	1035.12	29.23	12.32
20.70	72.4	904.6	1045.66	29.25	12.39
20.60	74.8	903.6	1055.24	29.24	12.74
20.48	78.8	902.8	1062.92	29.19	13.35
20.36	79.2	901.9	1071.56	29.16	13.33
20.26	80.0	900.7	1083.08	29.17	13.40
20.17	81.0	899.8	1091.74	29.16	13.51
20.09	81.3	899.0	1099.44	29.16	13.51
20.05	78.7	897.8	1110.99	29.23	13.05
20.01	78.3	896.9	1119.67	29.28	12.96
19.95	77.7	896.0	1128.35	29.30	12.83
19.89	77.7	895.0	1138.00	29.34	12.79
19.81	77.9	893.9	1148.63	29.36	12.78
19.73	78.2	892.9	1158.30	29.37	12.78
19.65	78.0	891.9	1167.98	29.39	12.70
19.63	75.4	890.9	1177.67	29.46	12.26
19.57	75.1	890.1	1185.42	29.48	12.18
19.51	75.1	888.9	1197.07	29.54	12.15
19.42	75.2	887.9	1206.78	29.54	12.11
19.35	75.1	887.1	1214.55	29.55	12.05
19.27	75.9	886.0	1225.25	29.57	12.13
19.18	78.4	885.0	1234.99	29.57	12.49
19.11	75.9	884.0	1244.73	29.60	12.04
19.08	75.4	883.0	1254.49	29.67	11.95

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
19.01	75.4	882.1	1263.27	29.68	11.91
18.94	75.5	881.1	1273.04	29.71	11.89
18.87	75.6	879.9	1284.77	29.75	11.87
18.79	75.5	878.9	1294.56	29.77	11.80
18.71	75.6	877.9	1304.36	29.78	11.77
18.64	75.7	876.9	1314.16	29.81	11.75
18.56	75.7	875.9	1323.98	29.83	11.70
18.49	76.1	875.0	1332.82	29.84	11.73
18.41	76.9	874.0	1342.65	29.86	11.81
18.33	78.5	872.9	1353.47	29.89	12.01
18.22	80.3	871.9	1363.32	29.87	12.22
18.14	81.4	870.9	1373.18	29.89	12.34
18.07	81.5	869.9	1383.05	29.91	12.32
18.02	81.2	868.8	1393.91	29.97	12.25
17.98	81.0	867.9	1402.81	30.02	12.20
17.92	80.5	866.8	1413.69	30.07	12.09
17.88	80.1	865.8	1423.60	30.12	12.01
17.82	80.0	864.7	1434.51	30.17	11.96
17.77	79.2	863.6	1445.43	30.23	11.82
17.71	78.2	862.7	1454.37	30.26	11.64
17.66	77.5	861.5	1466.30	30.33	11.51
17.59	77.1	860.6	1475.26	30.35	11.41
17.53	76.8	859.6	1485.22	30.38	11.33
17.45	76.8	858.6	1495.19	30.40	11.29
17.35	76.9	857.5	1506.17	30.41	11.25
17.26	76.9	856.6	1515.16	30.40	11.19
17.20	76.9	855.4	1527.15	30.46	11.17
17.11	76.8	854.5	1536.16	30.46	11.10
17.05	76.8	853.5	1546.17	30.50	11.07
16.99	76.4	852.6	1555.19	30.53	10.98
16.93	76.2	851.6	1565.22	30.57	10.92
16.88	75.5	850.5	1576.27	30.63	10.80
16.82	74.9	849.7	1584.31	30.65	10.68
16.77	74.9	848.8	1593.36	30.69	10.66
16.70	74.7	847.8	1603.43	30.72	10.59
16.64	73.8	847.0	1611.49	30.73	10.43
16.61	72.3	845.8	1623.59	30.83	10.21
16.54	71.6	844.9	1632.68	30.85	10.08
16.50	71.0	844.1	1640.76	30.89	9.98
16.44	70.0	843.1	1650.87	30.93	9.81
16.43	67.4	842.2	1659.97	31.01	9.44
16.39	67.3	841.3	1669.09	31.06	9.41
16.28	71.4	840.4	1678.21	31.04	9.93
16.17	72.1	839.6	1686.32	31.00	9.97

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.12	73.3	838.6	1696.48	31.06	10.12
16.05	73.9	837.7	1705.62	31.08	10.17
15.99	73.6	837.0	1712.74	31.08	10.10
15.96	73.2	836.1	1721.90	31.15	10.03
16.02	67.8	835.2	1731.07	31.30	9.33
16.08	64.4	834.4	1739.23	31.45	8.90
16.05	63.8	833.4	1749.44	31.52	8.81
16.00	63.8	832.4	1759.65	31.58	8.79
15.96	62.5	831.6	1767.83	31.62	8.59
15.93	61.1	831.0	1773.97	31.65	8.39
15.90	60.6	830.0	1784.21	31.72	8.31
15.85	60.4	829.3	1791.39	31.74	8.26
15.81	59.8	828.5	1799.59	31.78	8.17
15.78	59.7	827.5	1809.86	31.86	8.15
15.75	60.0	826.9	1816.02	31.89	8.18
15.70	60.0	826.0	1825.28	31.93	8.16
15.65	59.8	825.3	1832.48	31.95	8.12
15.60	60.1	824.5	1840.72	31.98	8.14
15.56	60.2	823.9	1846.90	32.01	8.14
15.52	60.2	823.2	1854.12	32.04	8.12
15.49	60.6	822.4	1862.37	32.09	8.17
15.48	61.1	821.5	1871.67	32.18	8.24
15.42	61.5	820.8	1878.91	32.19	8.27
15.36	61.6	820.1	1886.15	32.20	8.26
15.32	62.4	819.5	1892.36	32.22	8.35
15.26	64.1	818.7	1900.65	32.24	8.56
15.23	63.5	818.1	1906.87	32.27	8.47
15.20	62.8	817.3	1915.17	32.33	8.36
15.15	62.6	816.6	1922.44	32.35	8.32
15.10	62.8	815.8	1930.75	32.38	8.33
15.02	64.6	815.0	1939.07	32.38	8.53
14.92	67.4	814.2	1947.40	32.36	8.86
14.87	67.1	813.5	1954.69	32.38	8.80
14.84	66.8	812.6	1964.07	32.45	8.75
14.80	66.3	812.1	1969.28	32.46	8.67
14.79	65.1	811.4	1976.59	32.53	8.51
14.74	66.0	810.6	1984.95	32.56	8.61
14.69	65.4	810.1	1990.17	32.56	8.51
14.67	63.7	809.2	1999.59	32.64	8.28
14.62	63.1	808.4	2007.96	32.67	8.18
14.63	60.6	807.8	2014.25	32.74	7.87
14.60	59.2	806.9	2023.68	32.81	7.68
14.57	58.4	806.4	2028.92	32.83	7.56
14.52	58.2	805.7	2036.27	32.86	7.52

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
14.46	59.0	805.0	2043.62	32.87	7.60
14.39	61.1	804.5	2048.88	32.85	7.84
14.29	62.5	803.7	2057.29	32.83	7.98
14.21	63.2	803.0	2064.66	32.82	8.03
14.15	63.7	802.2	2073.08	32.84	8.07
14.08	64.2	801.5	2080.46	32.84	8.11
13.99	66.4	800.8	2087.84	32.82	8.35
13.90	69.7	800.2	2094.17	32.79	8.72
13.81	73.3	799.3	2103.68	32.80	9.14
13.73	79.4	798.7	2110.02	32.78	9.86
13.69	79.6	797.8	2119.54	32.83	9.87
13.72	80.8	797.1	2126.96	32.94	10.05
13.72	81.1	796.4	2134.38	33.02	10.10
13.69	81.1	795.6	2142.87	33.08	10.09
13.68	80.9	794.8	2151.37	33.15	10.07
13.66	80.8	794.2	2157.75	33.20	10.05
13.66	81.2	793.3	2167.32	33.30	10.11
13.66	81.3	792.7	2173.72	33.36	10.13
13.67	80.0	791.8	2183.31	33.47	9.99
13.66	79.6	791.1	2190.78	33.54	9.94
13.62	78.3	790.3	2199.32	33.59	9.76
13.60	77.2	789.5	2207.88	33.65	9.62
13.55	76.8	788.8	2215.36	33.68	9.54
13.52	76.4	788.0	2223.93	33.74	9.48
13.49	76.2	787.3	2231.43	33.78	9.45
13.44	76.4	786.5	2240.01	33.82	9.45
13.40	76.0	785.8	2247.52	33.85	9.39
13.36	76.3	784.8	2258.26	33.92	9.41
13.32	76.3	784.0	2266.86	33.97	9.40
13.27	76.1	783.4	2273.32	33.98	9.35
13.21	75.5	782.5	2283.01	34.02	9.25
13.18	76.0	781.7	2291.63	34.08	9.30
13.14	75.3	780.8	2301.34	34.13	9.20
13.09	75.2	779.9	2311.05	34.18	9.17
13.05	74.8	779.2	2318.62	34.22	9.10
13.00	74.5	778.3	2328.35	34.27	9.04
12.94	75.4	777.4	2338.10	34.30	9.13
12.87	76.3	776.5	2347.85	34.33	9.21
12.79	77.3	775.8	2355.44	34.32	9.29
12.72	77.6	774.9	2365.21	34.35	9.29
12.66	78.0	774.2	2372.82	34.36	9.31
12.60	78.5	773.2	2383.69	34.41	9.35
12.53	78.3	772.3	2393.48	34.44	9.29
12.48	78.6	771.5	2402.20	34.48	9.31

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
12.45	78.0	770.6	2412.01	34.55	9.23
12.39	77.3	769.8	2420.74	34.58	9.12
12.34	76.9	768.9	2430.57	34.62	9.05
12.30	76.0	768.2	2438.23	34.66	8.93
12.29	73.7	767.3	2448.07	34.75	8.66
12.27	76.2	766.3	2459.03	34.85	8.96
12.22	76.3	765.6	2466.70	34.87	8.95
12.17	75.9	764.6	2477.68	34.93	8.88
12.11	75.4	763.7	2487.57	34.97	8.80
12.06	74.6	762.9	2496.36	35.01	8.68
12.01	74.1	761.8	2508.47	35.09	8.61
12.00	72.8	761.0	2517.29	35.17	8.46
11.95	72.2	760.0	2528.32	35.23	8.37
11.92	72.2	759.2	2537.15	35.29	8.36
11.86	72.2	758.2	2548.20	35.34	8.34
11.82	72.7	757.2	2559.27	35.41	8.39
11.76	72.9	756.4	2568.13	35.44	8.39
11.69	73.0	755.6	2577.00	35.46	8.37
11.64	73.1	754.8	2585.88	35.50	8.36
11.57	73.2	753.8	2596.98	35.54	8.34
11.51	73.1	753.0	2605.87	35.57	8.31
11.43	73.4	752.0	2617.00	35.60	8.31
11.38	73.5	751.0	2628.14	35.66	8.30
11.30	73.5	750.2	2637.06	35.67	8.27
11.24	73.3	749.3	2647.11	35.71	8.22
11.15	73.3	748.6	2654.92	35.70	8.18
11.09	73.4	747.6	2666.10	35.75	8.17
11.02	73.5	747.0	2672.81	35.74	8.15
10.93	73.7	746.0	2684.01	35.76	8.13
10.84	75.0	745.2	2692.97	35.76	8.24
10.75	76.6	744.4	2701.95	35.76	8.37
10.69	76.8	743.6	2710.93	35.79	8.37
10.61	77.0	742.6	2722.16	35.82	8.36
10.55	76.7	741.7	2732.29	35.86	8.30
10.49	76.4	740.9	2741.29	35.89	8.24
10.41	76.7	740.1	2750.30	35.90	8.24
10.36	75.7	739.2	2760.45	35.95	8.12
10.31	75.4	738.4	2769.48	35.99	8.06
10.26	76.2	737.6	2778.52	36.03	8.13
10.20	76.2	736.8	2787.57	36.07	8.11
10.15	76.7	736.0	2796.62	36.11	8.14
10.09	77.1	734.9	2809.08	36.17	8.17
10.04	76.5	734.3	2815.89	36.19	8.08
10.01	75.8	733.2	2828.37	36.29	8.00

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
10.00	73.5	732.4	2837.47	36.38	7.76
9.96	72.8	731.6	2846.57	36.43	7.67
9.90	73.6	730.8	2855.67	36.46	7.73
9.83	74.7	729.9	2865.93	36.49	7.82
9.75	76.0	729.2	2873.92	36.49	7.93
9.67	76.3	728.3	2884.19	36.51	7.92
9.60	76.7	727.4	2894.47	36.55	7.94
9.53	76.0	726.7	2902.48	36.55	7.84
9.44	75.9	725.8	2912.78	36.57	7.79
9.38	75.6	725.1	2920.80	36.59	7.73
9.31	75.5	724.2	2931.12	36.62	7.69
9.22	75.2	723.5	2939.15	36.61	7.62
9.16	75.1	722.7	2948.34	36.64	7.59
9.08	75.7	721.8	2958.68	36.66	7.62
9.01	78.9	721.1	2966.73	36.67	7.92
8.92	79.4	720.3	2975.94	36.67	7.93
8.85	79.4	719.5	2985.16	36.69	7.90
8.77	79.6	718.7	2994.39	36.70	7.88
8.70	79.8	717.9	3003.62	36.72	7.88
8.62	80.6	717.2	3011.71	36.72	7.92
8.54	81.7	716.4	3020.95	36.73	7.99
8.46	85.8	715.7	3029.05	36.73	8.36
8.39	87.2	715.0	3037.16	36.74	8.47
8.32	89.0	714.4	3044.11	36.74	8.61
8.25	90.6	713.4	3055.71	36.79	8.74
8.19	94.6	712.8	3062.68	36.79	9.10
8.11	95.2	712.2	3069.65	36.78	9.12
8.06	95.3	711.3	3080.12	36.84	9.11
7.98	95.2	710.6	3088.27	36.84	9.06
7.89	95.1	709.8	3097.59	36.84	9.00
7.83	94.8	709.1	3105.75	36.86	8.94
7.76	94.7	708.4	3113.91	36.87	8.90
7.70	94.7	707.7	3122.08	36.89	8.87
7.62	94.5	706.8	3132.60	36.91	8.81
7.56	94.5	706.1	3140.79	36.94	8.79
7.52	94.2	705.3	3150.15	36.99	8.74
7.46	94.1	704.6	3158.35	37.01	8.71
7.39	94.0	703.8	3167.73	37.04	8.67
7.30	94.1	703.1	3175.94	37.03	8.63
7.22	94.3	702.2	3186.51	37.05	8.61
7.13	94.5	701.5	3194.74	37.04	8.59
7.05	94.3	700.8	3202.97	37.04	8.53
6.99	94.1	700.1	3211.21	37.06	8.48
6.94	93.8	699.5	3218.27	37.08	8.43



CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.94	92.2	698.7	3227.70	37.18	8.30
6.94	88.9	697.9	3237.14	37.29	8.01
6.89	88.5	697.1	3246.59	37.33	7.95
6.83	87.2	696.4	3254.86	37.36	7.81
6.79	85.0	695.6	3264.33	37.41	7.60
6.75	83.6	695.0	3271.43	37.45	7.46
6.70	83.6	694.2	3280.91	37.49	7.44
6.70	84.2	693.6	3288.02	37.57	7.50
6.67	85.1	692.7	3298.71	37.65	7.57
6.65	84.4	692.1	3305.84	37.71	7.51
6.60	87.7	691.3	3315.35	37.75	7.79
6.50	91.1	690.5	3324.88	37.75	8.04
6.41	93.4	689.9	3332.03	37.72	8.21
6.33	94.1	689.1	3341.57	37.74	8.23
6.25	94.2	688.5	3348.73	37.73	8.20
6.23	93.5	687.6	3359.48	37.82	8.14
6.29	86.8	686.9	3367.85	37.98	7.59
6.30	82.5	686.0	3378.62	38.10	7.22
6.28	78.9	685.5	3384.61	38.15	6.90
6.22	78.4	684.6	3395.40	38.20	6.84
6.16	76.1	684.0	3402.60	38.21	6.61
6.13	74.9	683.4	3409.80	38.25	6.50
6.10	74.4	682.6	3419.42	38.32	6.45
6.03	74.5	682.0	3426.63	38.32	6.43
5.96	75.6	681.1	3437.46	38.36	6.50
5.93	77.0	680.5	3444.69	38.41	6.62
5.93	76.4	679.6	3455.55	38.53	6.57
5.92	74.6	679.1	3461.58	38.58	6.42
5.92	73.0	678.5	3468.83	38.66	6.29
5.89	72.1	677.6	3479.71	38.74	6.20
5.88	72.0	677.0	3486.98	38.81	6.19
5.82	72.5	676.2	3496.67	38.85	6.22
5.77	72.9	675.5	3505.16	38.89	6.24
5.70	73.3	674.7	3514.87	38.91	6.25
5.62	73.2	673.9	3524.59	38.93	6.21
5.55	73.1	673.3	3531.88	38.93	6.18
5.49	72.6	672.3	3544.05	39.00	6.12
5.44	70.6	671.6	3552.58	39.03	5.94
5.38	70.6	670.8	3562.33	39.07	5.92
5.30	72.3	670.1	3570.88	39.08	6.03
5.23	73.8	669.2	3581.87	39.12	6.14
5.08	89.5	668.4	3591.65	39.06	7.39
4.94	93.7	667.6	3601.45	39.01	7.68
4.86	94.2	666.9	3610.03	39.01	7.68

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
4.80	93.8	665.8	3623.52	39.09	7.63
4.79	92.8	665.1	3632.12	39.17	7.55
4.83	91.9	664.3	3641.96	39.33	7.51
4.79	91.9	663.4	3653.04	39.40	7.50
4.73	91.8	662.6	3662.90	39.44	7.46
4.72	90.6	661.7	3674.00	39.55	7.37
4.66	89.5	660.9	3683.89	39.59	7.26
4.61	87.7	660.2	3692.54	39.63	7.09
4.57	85.1	659.3	3703.68	39.71	6.87
4.51	83.2	658.5	3713.59	39.75	6.69
4.45	81.0	657.6	3724.75	39.81	6.50
4.43	80.5	656.9	3733.43	39.88	6.45
4.43	74.3	656.0	3744.62	40.00	5.96
4.44	70.0	655.2	3754.57	40.12	5.62
4.37	71.0	654.3	3765.77	40.17	5.68
4.38	69.7	653.5	3775.75	40.29	5.59
4.39	65.6	652.7	3785.73	40.41	5.27
4.41	65.0	652.1	3793.23	40.51	5.23
4.33	72.7	651.2	3804.48	40.55	5.83
4.35	59.3	650.3	3815.75	40.69	4.76
4.48	50.1	649.4	3827.03	40.96	4.06
4.53	48.1	648.7	3835.82	41.12	3.92
4.49	47.9	647.8	3847.13	41.20	3.90
4.40	61.4	646.9	3858.46	41.22	4.98
4.30	62.6	646.0	3869.80	41.23	5.05
4.24	59.9	645.3	3878.63	41.26	4.81
4.20	59.4	644.4	3890.00	41.34	4.76
4.13	60.7	643.8	3897.58	41.35	4.85
4.07	61.0	642.9	3908.97	41.40	4.86
4.01	61.5	642.2	3917.83	41.43	4.89
3.93	66.7	641.3	3929.25	41.47	5.28
3.88	66.4	640.5	3939.40	41.53	5.24
3.85	67.2	639.8	3948.30	41.59	5.30
3.80	72.0	639.0	3958.47	41.65	5.67
3.75	72.6	638.3	3967.39	41.69	5.70
3.68	72.7	637.6	3976.31	41.71	5.69
3.62	73.3	636.9	3985.24	41.74	5.72
3.60	74.8	636.0	3996.74	41.84	5.84
3.59	74.1	635.3	4005.69	41.93	5.78
3.60	73.6	634.4	4017.22	42.07	5.76
3.64	72.2	633.8	4024.91	42.20	5.67
3.63	73.2	633.0	4035.18	42.30	5.75
3.63	74.2	632.3	4044.17	42.40	5.84
3.65	73.0	631.6	4053.18	42.52	5.76

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.64	73.3	630.8	4063.48	42.63	5.78
3.68	71.2	630.2	4071.22	42.76	5.64
3.74	62.1	629.5	4080.26	42.93	4.94
3.76	59.4	628.8	4089.30	43.05	4.73
3.74	57.0	628.1	4098.36	43.13	4.54
3.72	54.7	627.3	4108.71	43.22	4.35
3.70	48.2	626.7	4116.49	43.29	3.83
3.76	39.2	626.2	4122.97	43.43	3.13
3.84	36.2	625.4	4133.35	43.63	2.91
3.87	35.8	624.9	4139.85	43.74	2.88
3.90	35.1	624.2	4148.95	43.88	2.84
3.91	34.4	623.4	4159.37	44.00	2.79
3.93	35.5	622.7	4168.50	44.13	2.88
3.91	35.5	622.2	4175.03	44.18	2.88
3.89	35.7	621.5	4184.17	44.26	2.90
3.87	35.9	620.9	4192.02	44.32	2.91
3.81	35.7	620.1	4202.49	44.37	2.89
3.75	35.8	619.5	4210.35	44.39	2.89
3.68	35.8	618.8	4219.53	44.41	2.87
3.66	36.7	618.2	4227.40	44.48	2.95
3.61	38.5	617.5	4236.60	44.52	3.08
3.55	39.7	617.0	4243.17	44.53	3.17
3.49	42.9	616.3	4252.39	44.56	3.42
3.43	45.2	615.7	4260.29	44.58	3.59
3.35	46.3	614.9	4270.84	44.61	3.66
3.27	46.9	614.3	4278.76	44.61	3.69
3.20	49.7	613.6	4288.00	44.63	3.90
3.11	51.4	612.9	4297.26	44.63	4.01
3.01	55.8	612.4	4303.87	44.59	4.33
2.92	58.3	611.7	4313.14	44.59	4.50
2.82	60.0	611.2	4319.76	44.55	4.60
2.77	59.6	610.5	4329.05	44.59	4.56
2.74	57.7	609.8	4338.34	44.66	4.41
2.69	56.7	609.2	4346.31	44.70	4.32
2.66	56.2	608.4	4356.94	44.78	4.28
2.61	56.3	607.8	4364.93	44.81	4.28
2.55	57.5	607.4	4370.26	44.80	4.35
2.48	58.7	606.7	4379.59	44.83	4.43
2.41	59.2	606.1	4387.59	44.84	4.45
2.32	61.0	605.5	4395.60	44.82	4.56
2.23	62.3	604.9	4403.62	44.81	4.63
2.15	62.7	604.2	4412.97	44.82	4.64
2.06	62.9	603.7	4419.66	44.79	4.63
2.00	63.1	602.9	4430.37	44.84	4.63

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
1.92	63.2	602.4	4437.07	44.83	4.61
1.85	63.7	601.9	4443.78	44.82	4.63
1.77	64.0	601.0	4455.86	44.87	4.63
1.68	64.2	600.5	4462.57	44.84	4.62
1.62	64.6	599.7	4473.33	44.89	4.63
1.54	64.9	599.2	4480.05	44.87	4.63
1.48	65.4	598.6	4488.13	44.89	4.65
1.40	65.7	598.1	4494.86	44.88	4.65
1.33	65.6	597.4	4504.30	44.90	4.63
1.29	66.2	596.7	4513.75	44.96	4.66
1.23	66.9	596.3	4519.15	44.95	4.69
1.17	67.7	595.5	4529.96	45.01	4.74
1.10	68.0	594.8	4539.43	45.03	4.74
1.07	67.4	594.1	4548.91	45.11	4.69
1.06	67.1	593.6	4555.69	45.17	4.67
1.05	66.2	593.0	4563.83	45.25	4.61
1.06	64.5	592.2	4574.69	45.39	4.50
1.05	62.1	591.6	4582.85	45.47	4.33
1.01	61.9	591.0	4591.02	45.51	4.31
1.00	61.2	590.3	4600.55	45.61	4.26
0.96	60.5	589.7	4608.73	45.65	4.21
0.90	60.7	588.9	4619.65	45.71	4.21
0.84	61.0	588.4	4626.48	45.72	4.21
0.79	60.3	587.8	4634.69	45.75	4.15
0.70	61.1	587.1	4644.26	45.75	4.19
0.64	61.0	586.5	4652.48	45.78	4.17
0.57	60.6	585.9	4660.70	45.79	4.12
0.54	58.1	585.3	4668.93	45.85	3.95
0.50	55.8	584.6	4678.54	45.91	3.78
0.47	55.4	584.1	4685.41	45.95	3.75
0.41	55.3	583.5	4693.66	45.98	3.73
0.36	55.0	582.7	4704.67	46.04	3.70
0.31	54.7	582.2	4711.56	46.06	3.67
0.25	54.5	581.5	4721.21	46.10	3.65
0.18	54.5	581.0	4728.11	46.10	3.63
0.10	54.3	580.4	4736.39	46.10	3.60
0.04	54.1	579.7	4746.06	46.14	3.58
-0.04	53.8	579.0	4755.75	46.16	3.54
-0.12	53.5	578.5	4762.67	46.14	3.50
-0.21	53.5	577.7	4773.75	46.17	3.48
-0.28	53.8	577.2	4780.68	46.16	3.49
-0.35	52.8	576.6	4789.00	46.18	3.41
-0.42	52.5	575.9	4798.72	46.20	3.38
-0.49	52.1	575.2	4808.45	46.23	3.34

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-0.58	51.9	574.7	4815.40	46.21	3.31
-0.64	50.8	574.1	4823.75	46.23	3.22
-0.69	50.2	573.3	4834.90	46.30	3.18
-0.70	42.9	572.7	4843.26	46.39	2.72
-0.66	39.3	572.2	4850.24	46.51	2.50
-0.59	35.8	571.5	4860.02	46.71	2.29
-0.58	33.1	570.8	4869.81	46.83	2.12
-0.60	33.0	570.2	4878.21	46.90	2.11
-0.62	33.9	569.7	4885.22	46.96	2.17
-0.65	34.0	569.0	4895.04	47.04	2.17
-0.72	35.1	568.4	4903.47	47.05	2.23
-0.78	36.5	567.9	4910.49	47.06	2.32
-0.87	37.0	567.3	4918.93	47.05	2.33
-0.91	36.5	566.5	4930.19	47.14	2.30
-0.97	34.8	566.0	4937.24	47.15	2.18
-1.00	33.1	565.5	4944.29	47.19	2.07
-1.08	33.6	564.6	4956.99	47.24	2.10
-1.13	38.3	564.1	4964.06	47.27	2.38
-1.23	38.7	563.6	4971.13	47.23	2.39
-1.24	33.8	562.8	4982.45	47.35	2.09
-1.28	33.4	562.3	4989.53	47.38	2.06
-1.28	30.7	561.8	4996.62	47.46	1.90
-1.34	32.3	561.0	5007.97	47.52	1.99
-1.41	31.0	560.3	5017.92	47.55	1.90
-1.47	31.0	559.9	5023.60	47.55	1.89
-1.53	32.8	559.2	5033.56	47.59	2.00
-1.60	38.2	558.6	5042.11	47.61	2.32
-1.64	38.0	557.9	5052.09	47.68	2.30
-1.70	39.8	557.3	5060.65	47.70	2.40
-1.77	40.3	556.8	5067.79	47.70	2.42
-1.85	45.7	556.0	5079.23	47.74	2.74
-1.92	45.9	555.7	5083.53	47.71	2.74
-1.93	44.6	554.8	5096.41	47.85	2.66
-1.95	43.6	554.1	5106.45	47.94	2.60
-2.01	43.7	553.5	5115.07	47.97	2.60
-2.10	43.8	552.9	5123.69	47.96	2.59
-2.18	43.4	552.3	5132.31	47.96	2.55
-2.25	42.9	551.7	5140.95	47.98	2.51
-2.32	42.5	551.1	5149.59	48.00	2.48
-2.41	42.1	550.3	5161.12	48.02	2.44
-2.49	42.3	549.7	5169.78	48.03	2.44
-2.57	42.6	549.0	5179.89	48.05	2.45
-2.67	41.9	548.5	5187.11	48.02	2.39
-2.70	37.4	548.1	5192.90	48.05	2.13

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-2.65	26.5	547.2	5205.92	48.26	1.52
-2.54	22.6	546.5	5216.07	48.51	1.31
-2.51	21.2	545.8	5226.23	48.66	1.23
-2.49	23.4	545.2	5234.95	48.79	1.36
-2.54	25.6	544.6	5243.68	48.83	1.49
-2.55	26.7	543.9	5253.88	48.93	1.55
-2.56	27.3	543.4	5261.17	49.01	1.59
-2.58	26.4	543.0	5267.01	49.05	1.53
-2.59	24.0	542.2	5278.70	49.17	1.39
-2.59	21.9	541.6	5287.47	49.28	1.27
-2.60	20.0	540.9	5297.72	49.38	1.16
-2.62	21.4	540.4	5305.05	49.45	1.24
-2.73	33.3	539.6	5316.79	49.45	1.92
-2.86	37.2	539.2	5322.67	49.36	2.13
-2.94	38.1	538.5	5332.96	49.39	2.17
-2.99	37.0	537.9	5341.79	49.43	2.10
-3.02	36.0	537.3	5350.62	49.50	2.04
-3.03	35.1	536.5	5362.42	49.62	1.99
-3.08	35.0	535.8	5372.75	49.69	1.98
-3.11	32.1	535.4	5378.66	49.72	1.82
-3.14	28.5	534.7	5389.02	49.80	1.61
-3.18	27.9	533.9	5400.86	49.89	1.57
-3.24	27.6	533.2	5411.24	49.94	1.55
-3.30	27.5	532.9	5415.69	49.92	1.54
-3.37	26.4	532.3	5424.59	49.94	1.47
-3.40	25.5	531.4	5437.97	50.06	1.42
-3.45	24.4	531.1	5442.43	50.06	1.36
-3.52	23.9	530.3	5454.34	50.11	1.32
-3.59	23.8	529.7	5463.28	50.13	1.31
-3.64	23.8	528.5	5481.19	50.28	1.31
-3.68	24.0	528.4	5482.68	50.25	1.32
-3.75	24.5	527.2	5500.63	50.38	1.34
-3.89	25.2	526.4	5512.61	50.35	1.37
-3.95	26.0	525.9	5520.11	50.37	1.41
-3.91	24.3	525.4	5527.61	50.50	1.32
-3.93	24.0	524.9	5535.12	50.57	1.30
-4.00	24.0	524.0	5548.65	50.64	1.30
-4.07	24.2	523.5	5556.18	50.65	1.30
-4.14	24.2	523.0	5563.71	50.65	1.30
-4.24	24.3	522.4	5572.75	50.64	1.29
-4.32	24.4	521.6	5584.82	50.68	1.29
-4.40	24.4	520.9	5595.40	50.71	1.29
-4.49	24.5	520.5	5601.45	50.67	1.28
-4.56	24.6	519.7	5613.55	50.73	1.28

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-4.65	24.7	519.1	5622.64	50.73	1.28
-4.74	25.3	518.7	5628.70	50.69	1.31
-4.84	25.7	517.9	5640.84	50.71	1.32
-4.93	26.3	517.3	5649.95	50.71	1.34
-5.03	29.4	516.6	5660.58	50.72	1.49
-5.13	32.2	516.1	5668.19	50.69	1.62
-5.22	34.2	515.4	5678.85	50.70	1.71
-5.32	34.3	514.8	5687.99	50.69	1.71
-5.40	33.3	514.3	5695.62	50.68	1.65
-5.52	35.2	513.7	5704.77	50.65	1.73
-5.62	36.8	512.9	5716.99	50.67	1.80
-5.73	38.4	512.6	5721.58	50.59	1.86
-5.84	45.3	511.8	5733.82	50.60	2.18
-5.97	51.0	511.2	5743.01	50.55	2.44
-6.02	50.2	510.7	5750.67	50.58	2.39
-6.08	48.8	510.1	5759.87	50.62	2.32
-6.11	47.5	509.5	5769.09	50.69	2.25
-6.13	45.3	509.0	5776.77	50.76	2.15
-6.18	43.7	508.5	5784.46	50.79	2.06
-6.23	42.8	507.8	5795.24	50.86	2.02
-6.29	42.5	507.1	5806.03	50.91	2.00
-6.32	35.0	506.6	5813.74	50.97	1.64
-6.33	29.6	505.9	5824.55	51.08	1.39
-6.35	27.3	505.3	5833.83	51.17	1.28
-6.41	26.2	504.9	5840.02	51.17	1.22
-6.46	25.5	504.4	5847.76	51.20	1.19
-6.52	25.1	503.8	5857.06	51.24	1.16
-6.58	24.8	503.2	5866.36	51.27	1.15
-6.66	25.2	502.7	5874.12	51.27	1.16
-6.74	25.3	502.1	5883.45	51.28	1.16
-6.82	25.3	501.5	5892.78	51.30	1.15
-6.91	26.2	500.9	5902.11	51.30	1.19
-6.95	25.7	500.5	5908.34	51.32	1.16
-6.97	23.3	499.8	5919.26	51.43	1.05
-7.01	21.9	499.4	5925.50	51.45	0.99
-7.07	23.6	498.8	5934.87	51.49	1.06
-7.14	25.6	498.4	5941.12	51.48	1.14
-7.22	25.7	497.7	5952.07	51.51	1.14
-7.25	24.9	497.3	5958.33	51.55	1.11
-7.27	23.0	496.8	5966.17	51.62	1.02
-7.31	22.0	496.6	5969.30	51.61	0.97
-7.32	20.7	495.7	5983.43	51.77	0.92
-7.29	19.6	495.2	5991.28	51.90	0.87
-7.25	18.8	494.8	5997.58	52.02	0.84

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.27	18.2	494.2	6007.02	52.11	0.81
-7.28	17.9	493.7	6014.91	52.19	0.80
-7.34	17.8	493.2	6022.79	52.21	0.79
-7.38	17.8	492.7	6030.69	52.26	0.79
-7.43	17.9	492.3	6037.01	52.27	0.79
-7.49	17.9	491.7	6046.50	52.31	0.79
-7.57	17.9	491.4	6051.25	52.27	0.78
-7.62	17.8	490.8	6060.75	52.32	0.78
-7.69	17.9	490.5	6065.50	52.29	0.78
-7.75	17.8	489.7	6078.19	52.37	0.77
-7.82	17.9	489.1	6087.72	52.40	0.77
-7.89	17.8	488.8	6092.49	52.37	0.76
-7.94	17.8	488.3	6100.44	52.41	0.76
-8.02	18.3	487.8	6108.39	52.40	0.78
-8.07	18.6	487.5	6113.17	52.40	0.79
-8.16	19.9	486.7	6125.92	52.44	0.84
-8.31	20.8	486.2	6133.89	52.35	0.87
-8.37	20.2	485.6	6143.47	52.39	0.84
-8.43	20.3	485.2	6149.86	52.40	0.84
-8.49	19.7	484.8	6156.25	52.40	0.81
-8.55	19.6	484.5	6161.05	52.38	0.81
-8.63	19.2	483.8	6172.25	52.42	0.79
-8.69	18.9	483.5	6177.05	52.40	0.77
-8.74	18.9	483.0	6185.07	52.44	0.77
-8.83	19.2	482.7	6189.88	52.39	0.78
-8.89	19.1	482.2	6197.90	52.41	0.77
-8.96	19.3	481.6	6207.53	52.44	0.77
-9.03	19.3	481.3	6212.35	52.41	0.77
-9.10	19.3	480.7	6222.00	52.44	0.77
-9.17	21.3	480.3	6228.44	52.43	0.84
-9.24	26.2	480.0	6233.27	52.40	1.03
-9.26	25.9	479.5	6241.32	52.47	1.02
-9.27	24.7	479.0	6249.39	52.56	0.97
-9.32	24.1	478.7	6254.23	52.56	0.95
-9.32	21.7	478.2	6262.30	52.65	0.85
-9.34	26.3	477.8	6268.77	52.71	1.03
-9.39	28.1	477.5	6273.62	52.70	1.10
-9.46	28.0	477.0	6281.72	52.71	1.09
-9.51	28.7	476.7	6286.58	52.71	1.11
-9.58	29.1	476.2	6294.68	52.72	1.12
-9.65	29.1	475.6	6304.41	52.75	1.12
-9.72	29.1	475.2	6310.90	52.75	1.11
-9.78	28.9	475.0	6314.15	52.71	1.10
-9.85	30.1	474.5	6322.28	52.72	1.14



CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.88	31.4	474.1	6328.78	52.76	1.19
-9.84	27.5	473.6	6336.92	52.91	1.05
-9.70	21.8	473.0	6346.70	53.20	0.84
-9.65	19.2	472.7	6351.59	53.32	0.74
-9.65	18.5	472.2	6359.76	53.42	0.72
-9.67	18.1	471.6	6369.57	53.52	0.70
-9.69	17.4	471.3	6374.48	53.55	0.67
-9.71	17.2	470.8	6382.67	53.63	0.67
-9.74	17.1	470.6	6385.95	53.63	0.66
-9.78	17.1	469.8	6399.07	53.74	0.66
-9.81	17.4	469.5	6404.00	53.76	0.67
-9.82	17.8	468.8	6415.50	53.89	0.69
-9.89	17.8	468.4	6422.08	53.88	0.68
-9.94	17.7	468.0	6428.67	53.90	0.68
-10.00	17.7	467.4	6438.56	53.94	0.67
-10.06	17.7	466.9	6446.80	53.97	0.67
-10.14	18.1	466.6	6451.75	53.93	0.68
-10.20	18.4	466.0	6461.66	53.98	0.69
-10.29	18.7	465.3	6473.24	54.00	0.70
-10.37	18.7	464.9	6479.86	53.99	0.70
-10.41	18.5	464.5	6486.48	54.02	0.69
-10.47	18.4	464.2	6491.45	54.00	0.68
-10.55	18.5	463.6	6501.40	54.02	0.68
-10.62	18.6	463.0	6511.36	54.06	0.68
-10.70	18.8	462.4	6521.32	54.08	0.68
-10.76	18.9	462.0	6527.97	54.08	0.69
-10.82	18.9	461.5	6536.29	54.11	0.68
-10.89	18.9	460.8	6547.95	54.17	0.68
-10.94	18.9	460.3	6556.29	54.21	0.68
-10.96	18.9	459.8	6564.64	54.28	0.68
-11.00	19.0	459.4	6571.32	54.31	0.68
-11.06	19.1	458.7	6583.02	54.38	0.68
-11.10	19.2	458.1	6593.07	54.45	0.68
-11.16	19.2	457.7	6599.77	54.46	0.68
-11.23	19.2	457.0	6611.51	54.52	0.68
-11.31	19.2	456.5	6619.91	54.52	0.67
-11.40	19.2	456.0	6628.31	54.51	0.67
-11.49	19.2	455.4	6638.40	54.52	0.67
-11.56	19.2	454.8	6648.50	54.56	0.66
-11.65	19.2	454.2	6658.61	54.57	0.66
-11.74	19.2	453.5	6670.42	54.60	0.66
-11.83	19.2	453.1	6677.17	54.57	0.65
-11.91	19.2	452.5	6687.31	54.59	0.65
-12.01	19.2	451.7	6700.85	54.63	0.64

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-12.09	19.2	451.1	6711.01	54.66	0.64
-12.17	19.2	450.5	6721.18	54.68	0.64
-12.23	19.2	450.1	6727.97	54.69	0.63
-12.32	19.2	449.4	6739.86	54.72	0.63
-12.40	19.3	448.8	6750.06	54.75	0.63
-12.46	19.2	448.1	6761.98	54.82	0.63
-12.52	19.2	447.4	6773.91	54.89	0.62
-12.63	19.2	446.9	6782.44	54.86	0.62
-12.72	19.2	446.2	6794.40	54.89	0.62
-12.81	19.2	445.7	6802.95	54.88	0.61
-12.91	19.2	445.1	6813.22	54.88	0.61
-12.99	19.1	444.4	6825.21	54.93	0.60
-13.10	19.1	443.7	6837.22	54.94	0.60
-13.19	19.1	443.1	6847.52	54.95	0.59
-13.29	19.1	442.6	6856.11	54.93	0.59
-13.38	19.1	441.9	6868.15	54.97	0.59
-13.47	19.0	441.3	6878.49	54.98	0.58
-13.55	19.0	440.8	6887.11	54.98	0.58
-13.64	19.0	440.2	6897.46	55.00	0.57
-13.72	19.0	439.7	6906.09	55.00	0.57
-13.81	19.0	438.9	6919.93	55.06	0.57
-13.90	19.0	438.2	6932.05	55.10	0.56
-13.99	19.0	437.8	6938.98	55.07	0.56
-14.08	19.0	437.0	6952.85	55.13	0.56
-14.18	19.0	436.5	6961.54	55.11	0.55
-14.27	19.1	435.9	6971.97	55.12	0.55
-14.38	19.1	435.3	6982.41	55.11	0.55
-14.47	19.1	434.6	6994.60	55.15	0.54
-14.57	19.1	434.0	7005.06	55.15	0.54
-14.66	19.1	433.4	7015.53	55.17	0.54
-14.74	19.1	432.7	7027.77	55.22	0.53
-14.84	19.1	432.1	7038.26	55.22	0.53
-14.94	19.2	431.6	7047.02	55.20	0.53
-15.04	19.2	430.9	7059.29	55.23	0.53
-15.14	19.2	430.3	7069.82	55.23	0.52
-15.25	19.3	429.7	7080.36	55.22	0.52
-15.35	19.3	429.2	7089.15	55.20	0.52
-15.47	19.4	428.2	7106.75	55.27	0.52
-15.56	19.4	427.8	7113.80	55.24	0.51
-15.68	19.5	427.0	7127.92	55.27	0.51
-15.76	19.5	426.4	7138.52	55.30	0.51
-15.87	19.5	425.8	7149.13	55.29	0.51
-15.96	19.6	425.3	7157.98	55.28	0.50
-16.07	19.6	424.5	7172.15	55.32	0.50

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-16.18	19.6	424.2	7177.47	55.25	0.50
-16.28	19.7	423.2	7195.23	55.34	0.50
-16.37	19.8	422.9	7200.56	55.29	0.50
-16.49	19.9	422.4	7209.45	55.25	0.49
-16.60	20.1	421.6	7223.70	55.29	0.49
-16.69	20.2	421.1	7232.61	55.28	0.49
-16.79	20.3	420.5	7243.32	55.29	0.49
-16.91	20.2	419.9	7254.03	55.27	0.49
-16.96	20.1	419.3	7264.76	55.34	0.48
-17.07	20.0	418.6	7277.29	55.35	0.48
-17.21	20.1	418.4	7280.87	55.22	0.47
-17.27	20.2	417.6	7295.21	55.32	0.47
-17.31	20.2	416.7	7311.38	55.47	0.47
-17.51	20.5	415.1	7340.18	55.58	0.47
-17.73	20.7	414.4	7352.81	55.45	0.47
-17.83	20.7	414.2	7356.42	55.37	0.47
-17.90	20.7	413.5	7369.07	55.44	0.47
-18.05	22.1	413.0	7378.11	55.36	0.49
-18.13	22.0	412.6	7385.34	55.35	0.49
-18.22	21.9	412.0	7396.21	55.37	0.48
-18.31	22.0	411.6	7403.46	55.34	0.48
-18.41	22.1	411.0	7414.34	55.35	0.48
-18.49	22.4	410.4	7425.23	55.39	0.48
-18.58	22.8	410.0	7432.50	55.36	0.49
-18.66	23.0	409.4	7443.42	55.40	0.49
-18.75	23.4	409.0	7450.70	55.37	0.49
-18.80	27.6	408.4	7461.64	55.45	0.58
-18.87	29.9	407.9	7470.76	55.47	0.63
-18.96	31.1	407.3	7481.72	55.49	0.65
-19.03	31.3	406.9	7489.03	55.49	0.65
-19.12	31.5	406.5	7496.35	55.47	0.65
-19.21	31.7	405.9	7507.34	55.49	0.65
-19.31	31.9	405.3	7518.33	55.50	0.65
-19.39	32.1	404.9	7525.67	55.49	0.65
-19.47	31.4	404.4	7534.85	55.50	0.63
-19.55	30.8	404.0	7542.20	55.49	0.62
-19.62	30.6	403.4	7553.24	55.54	0.61
-19.72	30.6	402.9	7562.44	55.53	0.60
-19.79	30.8	402.5	7569.81	55.53	0.60
-19.87	30.7	402.2	7575.35	55.50	0.60
-19.94	30.6	401.6	7586.42	55.55	0.59
-20.00	30.2	401.1	7595.65	55.59	0.58
-20.08	30.0	400.6	7604.90	55.60	0.58
-20.15	29.8	400.1	7614.15	55.63	0.57

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-20.22	29.5	399.7	7621.56	55.63	0.56
-20.27	29.0	399.3	7628.97	55.66	0.55
-20.34	29.5	398.9	7636.40	55.66	0.56
-20.41	32.2	398.4	7645.68	55.69	0.61
-20.50	34.4	397.9	7654.97	55.69	0.64
-20.57	35.8	397.4	7664.27	55.72	0.67
-20.62	36.4	397.2	7668.00	55.70	0.67
-20.68	36.7	396.7	7677.31	55.74	0.68
-20.76	36.8	396.2	7686.63	55.75	0.67
-20.81	35.8	395.7	7695.97	55.81	0.65
-20.85	34.7	395.4	7701.57	55.83	0.63
-20.90	34.7	395.0	7709.05	55.86	0.63
-20.97	34.9	394.6	7716.53	55.86	0.63
-21.02	35.1	394.2	7724.02	55.89	0.63
-21.08	35.5	393.8	7731.51	55.91	0.64
-21.15	36.2	393.3	7740.89	55.94	0.65
-21.21	37.9	392.9	7748.40	55.95	0.67
-21.27	40.8	392.4	7757.79	55.99	0.72
-21.34	43.5	392.1	7763.43	55.98	0.77
-21.40	44.9	391.9	7767.19	55.95	0.79
-21.47	45.6	391.3	7778.49	56.00	0.80
-21.53	46.1	390.9	7786.03	56.02	0.80
-21.61	46.5	390.4	7795.46	56.03	0.80
-21.69	47.0	390.1	7801.12	56.00	0.81
-21.76	47.4	389.7	7808.67	56.00	0.81
-21.83	47.6	389.2	7818.12	56.03	0.81
-21.91	48.3	388.8	7825.69	56.03	0.82
-21.96	48.8	388.4	7833.26	56.06	0.82
-22.03	48.4	387.9	7842.74	56.09	0.81
-22.09	47.9	387.7	7846.53	56.06	0.80
-22.17	47.0	387.2	7856.02	56.07	0.78
-22.21	46.3	386.7	7865.52	56.14	0.77
-22.27	45.4	386.4	7871.22	56.14	0.75
-22.31	43.9	386.1	7876.92	56.16	0.72
-22.37	42.5	385.6	7886.44	56.20	0.70
-22.41	41.0	385.2	7894.06	56.25	0.67
-22.47	40.0	384.8	7901.69	56.26	0.65
-22.51	39.0	384.4	7909.33	56.31	0.63
-22.57	38.2	384.0	7916.97	56.33	0.62
-22.62	37.3	383.7	7922.70	56.34	0.60
-22.68	36.3	383.1	7934.18	56.41	0.58
-22.75	34.9	382.8	7939.92	56.39	0.56
-22.74	32.6	382.4	7947.59	56.50	0.52
-22.76	32.5	382.0	7955.26	56.57	0.52

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-22.80	33.2	381.6	7962.94	56.62	0.53
-22.88	35.4	381.3	7968.71	56.59	0.56
-22.95	36.8	381.0	7974.48	56.57	0.58
-23.02	39.0	380.5	7984.10	56.60	0.61
-23.06	39.9	379.9	7995.65	56.70	0.62
-23.15	37.5	379.4	8005.30	56.70	0.58
-23.16	34.8	378.7	8018.82	56.86	0.54
-23.14	30.1	378.6	8020.75	56.91	0.47
-23.15	27.5	378.1	8030.42	57.03	0.43
-23.14	24.7	377.6	8040.11	57.16	0.38
-23.17	22.9	377.4	8043.99	57.17	0.36
-23.24	22.0	376.8	8055.63	57.23	0.34
-23.28	21.5	376.6	8059.51	57.23	0.33
-23.33	20.9	376.3	8065.34	57.24	0.32
-23.38	20.7	375.8	8075.07	57.30	0.32
-23.45	20.6	375.4	8082.85	57.31	0.31
-23.53	20.4	375.0	8090.65	57.30	0.31
-23.59	20.3	374.4	8102.35	57.37	0.31
-23.65	20.4	373.9	8112.11	57.42	0.31
-23.70	20.3	373.8	8114.06	57.38	0.30
-23.77	20.5	373.1	8127.75	57.46	0.31
-23.82	20.9	372.8	8133.62	57.47	0.31
-23.91	21.5	372.5	8139.50	57.43	0.32
-23.99	22.4	372.0	8149.30	57.45	0.33
-24.06	23.0	371.5	8159.11	57.48	0.34
-24.10	23.2	371.0	8168.93	57.56	0.34
-24.16	23.3	370.7	8174.83	57.56	0.34
-24.19	23.4	370.0	8188.61	57.69	0.34
-24.25	23.8	369.8	8192.55	57.67	0.34
-24.32	24.2	369.2	8204.38	57.73	0.35
-24.40	24.5	368.8	8212.28	57.72	0.35
-24.48	24.5	368.3	8222.15	57.74	0.35
-24.53	24.2	367.8	8232.04	57.81	0.34
-24.61	24.0	367.4	8239.96	57.80	0.34
-24.67	23.6	366.8	8251.86	57.88	0.33
-24.75	23.3	366.5	8257.81	57.85	0.32
-24.82	23.1	365.9	8269.72	57.91	0.32
-24.88	23.0	365.4	8279.66	57.96	0.32
-24.96	23.0	365.0	8287.62	57.96	0.31
-25.05	23.0	364.6	8295.59	57.94	0.31
-25.13	23.0	364.1	8305.56	57.96	0.31
-25.23	23.1	363.5	8317.53	57.99	0.31
-25.33	23.2	363.0	8327.52	57.98	0.31
-25.43	23.3	362.5	8337.52	57.98	0.31

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-25.52	23.3	362.0	8347.53	57.99	0.31
-25.61	23.3	361.7	8353.53	57.95	0.30
-25.71	23.4	361.2	8363.56	57.95	0.30
-25.80	23.4	360.5	8377.61	58.01	0.30
-25.86	23.3	360.0	8387.66	58.06	0.30
-25.93	23.4	359.6	8395.71	58.07	0.30
-26.01	23.5	359.3	8401.75	58.04	0.30
-26.06	23.4	358.8	8411.82	58.11	0.29
-26.14	23.2	358.2	8423.93	58.16	0.29
-26.22	23.4	357.7	8434.03	58.19	0.29
-26.28	23.4	357.3	8442.11	58.21	0.29
-26.31	23.2	356.7	8454.26	58.33	0.29
-26.40	23.3	356.1	8466.42	58.37	0.29
-26.47	23.4	355.7	8474.54	58.38	0.29
-26.53	22.9	355.1	8486.73	58.46	0.28
-26.61	22.5	354.6	8496.91	58.49	0.27
-26.69	22.2	354.1	8507.09	58.51	0.27
-26.78	22.0	353.7	8515.24	58.50	0.26
-26.85	21.8	353.1	8527.49	58.57	0.26
-26.93	21.6	352.6	8537.70	58.59	0.26
-27.01	21.5	352.1	8547.93	58.62	0.25
-27.10	21.5	351.5	8560.22	58.66	0.25
-27.18	21.5	351.1	8568.42	58.66	0.25
-27.28	21.5	350.7	8576.63	58.63	0.25
-27.35	21.4	350.0	8591.01	58.73	0.25
-27.44	21.5	349.6	8599.23	58.71	0.24
-27.54	21.5	349.0	8611.59	58.74	0.24
-27.62	21.5	348.6	8619.83	58.74	0.24
-27.69	21.5	347.8	8636.35	58.87	0.24
-27.78	21.6	347.4	8644.61	58.85	0.24
-27.84	21.7	346.9	8654.96	58.91	0.24
-27.92	21.9	346.3	8667.39	58.97	0.24
-28.02	22.0	345.7	8679.84	59.00	0.24
-28.11	22.1	345.3	8688.14	58.98	0.24
-28.20	22.2	344.7	8700.62	59.03	0.24
-28.28	22.3	344.4	8706.86	59.00	0.24
-28.38	22.6	343.8	8719.36	59.03	0.24
-28.46	23.2	343.2	8731.87	59.09	0.24
-28.58	24.0	342.8	8740.22	59.04	0.25
-28.68	24.6	342.2	8752.77	59.07	0.25
-28.77	25.1	341.7	8763.23	59.08	0.26
-28.87	25.5	341.2	8773.70	59.09	0.26
-28.97	26.0	340.8	8782.09	59.06	0.26
-29.06	26.5	340.3	8792.59	59.08	0.27

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-29.14	26.8	339.8	8803.09	59.11	0.27
-29.23	27.2	339.3	8813.61	59.13	0.27
-29.33	27.6	338.7	8826.25	59.16	0.27
-29.41	28.1	338.5	8830.46	59.11	0.27
-29.53	28.8	337.8	8845.23	59.14	0.28
-29.61	29.3	337.1	8860.02	59.23	0.28
-29.66	29.2	336.9	8864.25	59.22	0.28
-29.74	29.9	336.1	8881.20	59.33	0.28
-29.82	31.0	335.9	8885.44	59.28	0.29
-29.94	33.0	335.5	8893.93	59.23	0.31
-30.08	38.6	334.1	8923.69	59.44	0.36
-30.21	46.7	333.9	8927.95	59.31	0.43
-30.25	46.6	333.8	8930.08	59.29	0.43
-30.27	45.4	333.5	8936.48	59.35	0.41
-30.48	44.0	331.8	8972.81	59.54	0.40
-30.51	42.7	331.0	8989.96	59.73	0.38
-30.52	43.1	330.0	9011.45	60.01	0.39
-30.57	43.3	329.8	9015.76	60.00	0.39
-30.60	44.7	329.4	9024.38	60.07	0.40
-30.63	46.9	329.1	9030.85	60.12	0.42
-30.72	50.5	328.5	9043.80	60.17	0.45
-30.78	54.6	328.2	9050.29	60.17	0.48
-30.83	57.9	327.7	9061.11	60.25	0.51
-30.89	59.1	327.5	9065.44	60.22	0.52
-30.94	59.3	326.9	9078.44	60.33	0.52
-30.93	56.3	326.6	9084.96	60.43	0.49
-30.90	51.6	326.4	9089.30	60.53	0.45
-30.89	47.0	325.9	9100.17	60.69	0.41
-30.93	43.7	325.6	9106.71	60.72	0.38
-30.96	41.4	325.1	9117.60	60.83	0.36
-31.01	39.6	324.7	9126.33	60.88	0.35
-31.04	38.3	324.4	9132.89	60.92	0.33
-31.09	37.4	323.9	9143.82	61.00	0.33
-31.15	36.7	323.7	9148.20	60.98	0.32
-31.20	36.2	323.4	9154.76	61.00	0.31
-31.27	35.7	323.1	9161.34	60.99	0.31
-31.34	35.4	322.6	9172.30	61.04	0.30
-31.40	35.1	322.1	9183.28	61.11	0.30
-31.44	34.8	321.8	9189.88	61.14	0.29
-31.51	34.6	321.5	9196.48	61.13	0.29
-31.56	34.4	321.2	9203.08	61.15	0.29
-31.59	34.2	320.8	9211.89	61.23	0.29
-31.66	34.0	320.4	9220.72	61.25	0.28
-31.73	33.9	320.1	9227.34	61.25	0.28

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-31.82	33.7	319.7	9236.18	61.24	0.28
-31.88	33.6	319.4	9242.81	61.25	0.27
-31.94	33.5	319.1	9249.44	61.25	0.27
-32.02	33.4	318.7	9258.30	61.26	0.27
-32.09	33.3	318.3	9267.17	61.29	0.27
-32.16	33.2	317.9	9276.04	61.31	0.26
-32.25	33.1	317.5	9284.92	61.31	0.26
-32.32	33.1	317.3	9289.36	61.27	0.26
-32.40	33.0	316.9	9298.26	61.28	0.26
-32.48	32.9	316.5	9307.16	61.29	0.26
-32.55	32.8	316.1	9316.07	61.31	0.25
-32.64	32.6	315.9	9320.52	61.25	0.25
-32.70	32.5	315.5	9329.44	61.28	0.25
-32.76	32.4	315.1	9338.37	61.32	0.25
-32.84	32.4	314.8	9345.08	61.30	0.24
-32.89	32.3	314.4	9354.02	61.35	0.24
-32.96	32.4	313.9	9365.21	61.41	0.24
-33.03	32.4	313.7	9369.69	61.37	0.24
-33.10	32.5	313.3	9378.66	61.40	0.24
-33.17	32.6	313.0	9385.39	61.39	0.24
-33.21	32.7	312.6	9394.38	61.46	0.24
-33.26	32.9	312.2	9403.37	61.51	0.24
-33.31	33.0	312.0	9407.87	61.50	0.24
-33.41	33.1	311.5	9419.13	61.52	0.24
-33.45	33.2	311.0	9430.40	61.61	0.24
-33.48	33.3	310.8	9434.92	61.63	0.24
-33.58	33.4	310.4	9443.95	61.62	0.24
-33.62	33.6	310.1	9450.73	61.65	0.24
-33.66	33.7	309.6	9462.05	61.75	0.24
-33.72	33.8	309.3	9468.85	61.76	0.24
-33.78	33.9	309.1	9473.38	61.74	0.24
-33.84	34.2	308.7	9482.45	61.78	0.24
-33.87	34.2	308.5	9486.99	61.80	0.24
-33.91	34.1	308.0	9498.36	61.90	0.24
-33.97	34.0	307.6	9507.46	61.94	0.23
-34.04	33.9	307.2	9516.57	61.97	0.23
-34.13	33.8	306.6	9530.25	62.03	0.23
-34.27	33.7	306.0	9543.95	62.02	0.23
-34.35	33.6	305.8	9548.52	61.97	0.22
-34.43	33.6	305.4	9557.67	61.98	0.22
-34.50	33.5	305.0	9566.83	62.01	0.22
-34.58	33.5	304.7	9573.71	61.99	0.22
-34.64	33.5	304.4	9580.59	62.00	0.22
-34.74	33.5	304.1	9587.47	61.96	0.22



CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-34.81	33.4	303.6	9598.95	62.01	0.21
-34.87	33.4	303.3	9605.85	62.03	0.21
-34.94	33.3	302.9	9615.05	62.05	0.21
-34.95	33.2	302.6	9621.96	62.13	0.21
-35.04	33.2	302.2	9631.19	62.13	0.21
-35.07	33.1	301.8	9640.42	62.22	0.21
-35.12	33.0	301.5	9647.35	62.24	0.21
-35.19	33.0	301.1	9656.60	62.27	0.21
-35.28	33.0	300.8	9663.54	62.24	0.20
-35.35	33.1	300.2	9677.45	62.33	0.20
-35.42	33.1	299.9	9684.41	62.33	0.20
-35.49	33.1	299.5	9693.69	62.36	0.20
-35.58	33.2	299.3	9698.34	62.30	0.20
-35.66	33.2	298.7	9712.29	62.38	0.20
-35.76	33.2	298.3	9721.61	62.36	0.20
-35.80	33.2	297.9	9730.93	62.44	0.20
-35.90	33.3	297.4	9742.60	62.46	0.20
-35.99	33.4	297.2	9747.27	62.39	0.19
-36.05	33.4	296.8	9756.62	62.44	0.19
-36.16	33.4	296.6	9761.30	62.35	0.19
-36.28	33.5	295.5	9787.07	62.53	0.19
-36.38	33.5	295.3	9791.77	62.46	0.19
-36.48	33.6	295.2	9794.12	62.35	0.19
-36.56	33.6	294.8	9803.51	62.36	0.19
-36.65	33.7	294.0	9822.33	62.50	0.19
-36.73	33.7	293.6	9831.75	62.51	0.18
-36.82	33.8	293.5	9834.11	62.42	0.18
-36.94	33.8	293.4	9836.47	62.28	0.18
-37.02	33.9	292.6	9855.34	62.43	0.18
-37.12	33.9	292.4	9860.07	62.35	0.18
-37.27	34.0	291.9	9871.89	62.30	0.18
-37.32	34.1	291.2	9888.47	62.46	0.18
-37.47	34.3	290.9	9895.58	62.35	0.18
-37.58	34.4	290.4	9907.45	62.36	0.17
-37.72	34.7	289.7	9924.09	62.39	0.17
-37.83	34.8	289.1	9938.37	62.43	0.17
-37.89	34.9	288.5	9952.68	62.55	0.17
-38.10	35.2	287.9	9967.02	62.45	0.17
-38.22	35.2	287.4	9978.97	62.44	0.17
-38.22	35.3	286.9	9990.95	62.61	0.17
-38.37	35.4	286.4	10002.94	62.56	0.17
-38.44	35.6	286.3	10005.34	62.50	0.17
-38.54	35.7	285.8	10017.35	62.52	0.17
-38.64	35.8	285.4	10026.97	62.51	0.17

CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-38.75	36.0	285.0	10036.59	62.49	0.17
-38.89	36.1	284.5	10048.64	62.46	0.16
-38.95	36.3	284.4	10051.05	62.40	0.16
-39.03	36.4	284.0	10060.70	62.42	0.16
-39.10	36.5	283.6	10070.36	62.46	0.16
-39.20	36.7	283.1	10082.45	62.49	0.16
-39.29	36.8	282.6	10094.55	62.53	0.16
-39.38	36.9	282.2	10104.25	62.53	0.16
-39.47	37.2	281.8	10113.95	62.54	0.16
-39.57	37.5	281.2	10128.53	62.60	0.16
-39.63	37.9	281.0	10133.39	62.58	0.16
-39.69	38.5	280.5	10145.57	62.67	0.16
-39.77	39.3	280.1	10155.32	62.69	0.16
-39.83	40.2	279.8	10162.64	62.71	0.17
-39.89	40.6	279.6	10167.52	62.69	0.17
-39.97	40.9	278.9	10184.64	62.81	0.17
-40.00	41.3	278.4	10196.88	62.94	0.17
-40.09	41.7	278.1	10204.24	62.92	0.17
-40.18	42.1	277.7	10214.06	62.93	0.17
-40.29	42.5	277.2	10226.35	62.94	0.17
-40.37	43.0	277.0	10231.27	62.89	0.17
-40.48	43.4	276.5	10243.58	62.91	0.17
-40.59	43.9	276.2	10250.97	62.85	0.17
-40.72	44.4	275.8	10260.83	62.81	0.17
-40.81	44.8	275.4	10270.71	62.82	0.17
-40.89	45.3	274.9	10283.07	62.87	0.17
-40.99	45.7	274.3	10297.92	62.94	0.17
-41.12	46.1	274.0	10305.35	62.86	0.17
-41.17	46.2	273.8	10310.31	62.85	0.17
-41.25	46.2	273.1	10327.70	62.98	0.17
-41.33	46.4	272.8	10335.16	62.97	0.17
-41.43	46.5	272.6	10340.13	62.90	0.17
-41.54	46.7	272.0	10355.08	62.95	0.17
-41.64	46.8	271.7	10362.56	62.91	0.17
-41.72	47.0	271.3	10372.54	62.94	0.17
-41.79	47.2	270.9	10382.54	62.98	0.17
-41.90	47.5	270.5	10392.54	62.96	0.16
-41.99	47.8	270.2	10400.05	62.94	0.16
-42.05	48.1	269.9	10407.57	62.96	0.16
-42.12	48.4	269.3	10422.62	63.07	0.16
-42.25	48.5	269.1	10427.65	62.95	0.16
-42.35	48.7	268.6	10440.22	62.98	0.16
-42.44	48.8	268.1	10452.80	63.03	0.16
-42.51	48.7	267.6	10465.41	63.11	0.16

### CSI Profile: STA2RS08

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-42.55	48.5	267.4	10470.46	63.12	0.16
-42.60	48.1	267.1	10478.03	63.16	0.16
-42.61	47.4	266.6	10490.68	63.32	0.15
-42.68	46.7	266.1	10503.35	63.40	0.15
-42.75	46.1	265.8	10510.96	63.41	0.15
-42.86	45.6	265.5	10518.57	63.36	0.15
-42.91	45.1	264.9	10533.82	63.50	0.14
-42.98	44.7	264.6	10541.46	63.51	0.14
-43.07	44.3	264.2	10551.65	63.52	0.14
-43.16	44.0	263.9	10559.30	63.50	0.14
-43.23	43.7	263.3	10574.62	63.62	0.13
-43.34	43.4	263.0	10582.30	63.56	0.13
-43.37	43.1	262.7	10589.97	63.63	0.13
-43.48	42.8	262.3	10600.22	63.62	0.13
-43.55	42.6	262.1	10605.35	63.59	0.13
-43.66	42.3	261.7	10615.61	63.57	0.13
-43.77	42.1	261.3	10625.89	63.56	0.12
-43.81	42.0	261.0	10633.60	63.61	0.12
-43.95	41.8	260.5	10646.47	63.59	0.12
-44.05	41.7	260.2	10654.20	63.55	0.12
-44.08	41.7	259.8	10664.52	63.66	0.12
-44.21	41.6	259.4	10674.85	63.61	0.12
-44.30	41.5	259.1	10682.60	63.59	0.12
-44.46	41.5	258.8	10690.36	63.47	0.11
-44.51	41.4	258.3	10703.30	63.58	0.11
-44.58	41.4	258.0	10711.08	63.59	0.11
-44.68	41.4	257.5	10724.06	63.63	0.11
-44.81	41.4	257.2	10731.85	63.55	0.11
-44.87	41.4	257.1	10734.45	63.50	0.11
-44.91	41.3	256.5	10750.06	63.67	0.11
-44.97	41.3	256.1	10760.49	63.73	0.11
-45.07	41.2	255.8	10768.32	63.69	0.11
-45.14	41.2	255.3	10781.38	63.78	0.11
-45.20	41.1	255.2	10783.99	63.73	0.11
-45.32	41.1	254.8	10794.46	63.70	0.10
-45.42	41.1	254.5	10802.31	63.67	0.10
-45.50	41.1	254.1	10812.80	63.70	0.10
-45.58	41.1	253.8	10820.67	63.70	0.10
-45.66	41.1	253.4	10831.18	63.73	0.10
-45.72	41.0	253.2	10836.43	63.72	0.10
-45.86	41.0	252.8	10846.96	63.66	0.10
-45.91	41.0	252.2	10862.76	63.82	0.10
-45.99	41.0	252.0	10868.04	63.77	0.10
-46.10	41.1	251.7	10875.96	63.73	0.10

**CSI Profile: STA2RS08**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-46.16	41.1	251.3	10886.53	63.79	0.10
-46.22	41.1	251.0	10894.47	63.82	0.10
-46.35	41.1	250.8	10899.76	63.70	0.09
-46.37	41.1	250.3	10913.01	63.86	0.09
-46.45	41.1	250.0	10920.97	63.86	0.09
-46.51	41.1	249.7	10928.94	63.88	0.09
-46.55	41.1	249.2	10942.23	64.02	0.09
-46.68	41.1	248.8	10952.89	63.98	0.09
-46.78	41.1	248.5	10960.88	63.95	0.09



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project M M S SO<sub>2</sub> Monitoring  
PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STAR R5019  
Radiosonde  \_\_\_\_\_ Tethersonde \_\_\_\_\_  
Rawinsonde \_\_\_\_\_ Tetroom \_\_\_\_\_  
Date 9-8-94 Ob Time 0653 CDT  
Site Chandeleur Islander, Breton Island, LA  
Observer Blanchard

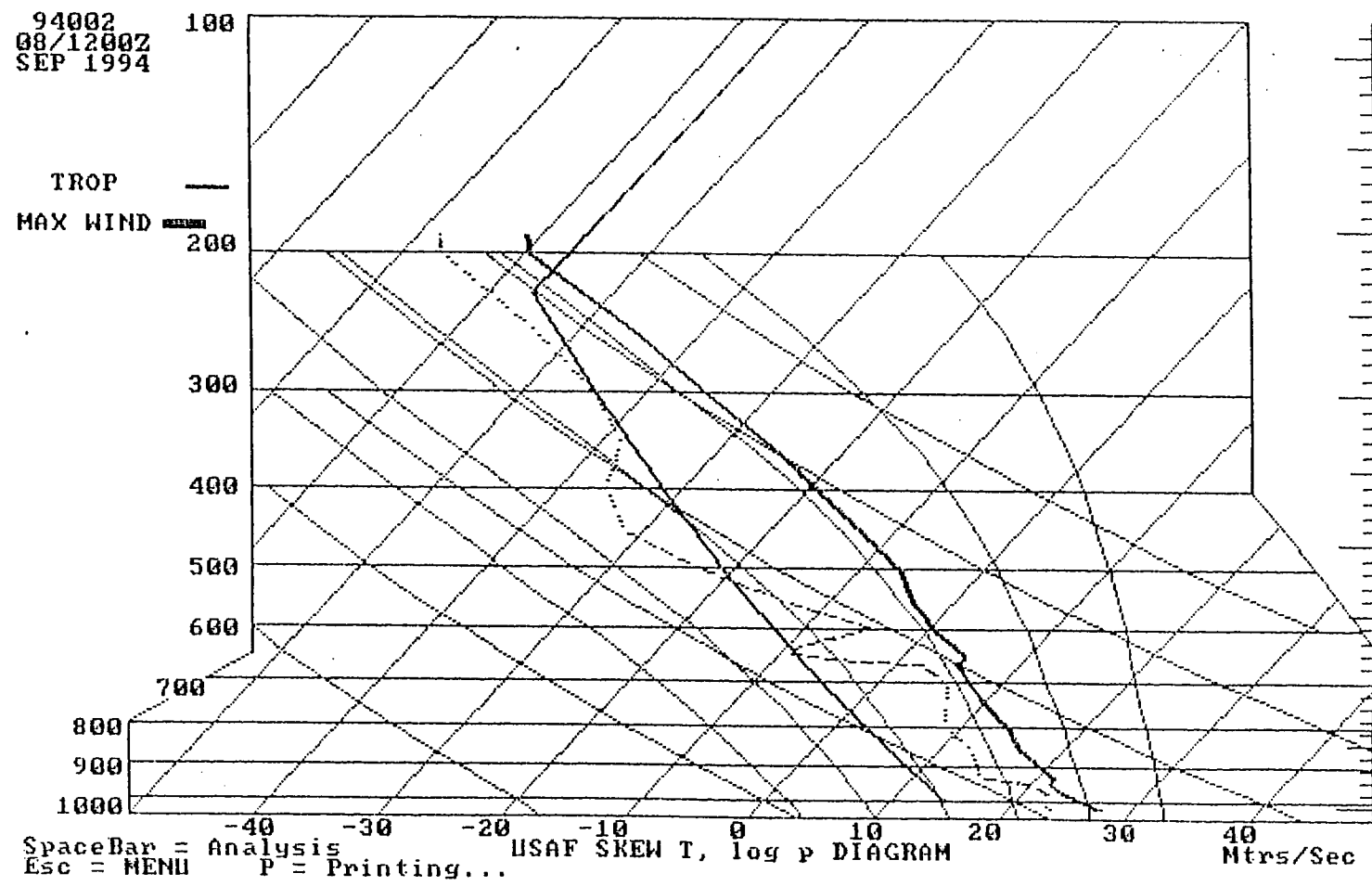
Barometric Pressure: 1018.7 mBars  
Dry-Bulb Temperature: 28 degrees C  
Wet-Bulb Temperature: 24.7 degrees C  
Relative Humidity: 77 percent  
Wind Speed: 5-10 est ~~knots~~ mph m/s  
Wind Direction: S-SW degrees M T  
Sonde Battery Voltage: 8.85 VDC  
Actual Time of Launch: 0701 CDT

Comments: (Cloud cover, type, flight description, etc.)

H.V.U. 10676 R.D.V. 77.77  
2/8 cumulus humilis, fractus  
4/9 cirrus  
A.I.R. Barometer - 1011.2 mb

Additional Comments on Back

D-198



Station Number: 94002

DTG of RAOB: 08/1200Z SEP 1994

Indices		Sfc Data: 1019mb T= 27.2°C Td= 23.3°C			Heights	
SSI	= 1.9				100mb	= MISG
RO	= -9.8				150mb	= MISG
K Index	= 33.6	Adiabatic Processes			200mb	= 12360m
Lifted Index	= -2.0	Wet Bulb Zero	= 656mb	--	250mb	= 10900m
Sweat Index	= Missing	LCL	= 963mb	22.4°C	300mb	= 9660m
Total-Totals	= 42.4	LFC	= 962mb	22.4°C	400mb	= 7590m
U Totals	= 23.1	CCL	= 962mb	22.4°C	500mb	= 5890m
X Totals	= 19.3	Tc	= --	27.3°C	700mb	= 3198m
Fog SI	= Missing	CCL E.L.	= 927mb	21.0°C	850mb	= 1579m
Fog Threat	= -2.2	LFC E.L.	= 927mb	21.0°C	1000mb	= 171m
Fog Point	= 22.0°C	850mb WBPT	= --	19.9°C		

Inversion Layers	Type	Break	Freezing Levels
662- 656mb 11309-11541ft	Subs	42.3°C	597mb 13905ft

Thickness	
500-300mb	= 3770m
700-500mb	= 2692m
850-500mb	= 4311m
850-700mb	= 1619m
1000-500mb	= 5719m
1000-700mb	= 3027m
1000-850mb	= 1408m

Max Wind  
None Reported

Icing Layers		
Base	Top	Intensity
None		

Turbulence Layers		
Base	Top	Shear
None		

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-199

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
27.21	79.6	1018.8	3.00	25.61	18.04
27.10	79.1	1018.2	8.23	25.56	17.82
26.84	77.8	1016.6	22.19	25.43	17.27
26.68	77.9	1014.8	37.91	25.42	17.16
26.56	77.9	1013.3	51.03	25.43	17.06
26.42	78.2	1011.6	65.90	25.43	17.01
26.29	78.6	1009.9	80.80	25.45	17.00
26.16	79.0	1008.5	93.08	25.44	16.98
26.03	79.1	1007.0	106.25	25.43	16.89
25.92	79.2	1005.6	118.55	25.44	16.82
25.79	80.3	1004.2	130.87	25.43	16.95
25.67	80.7	1002.4	146.73	25.47	16.95
25.54	81.1	1001.1	158.19	25.45	16.92
25.42	81.7	999.7	170.55	25.45	16.95
25.29	82.6	998.3	182.92	25.44	17.03
25.18	83.4	996.8	196.19	25.45	17.11
25.07	83.0	995.4	208.58	25.46	16.94
24.96	83.0	994.1	220.10	25.46	16.85
24.88	82.9	992.8	231.64	25.50	16.77
24.76	83.4	991.4	244.07	25.50	16.77
24.63	85.6	989.6	260.07	25.52	17.12
24.53	85.0	988.5	269.86	25.52	16.91
24.42	85.3	987.1	282.34	25.53	16.89
24.33	85.6	986.0	292.15	25.53	16.87
24.20	88.3	984.8	302.86	25.51	17.30
24.08	90.0	983.5	314.47	25.50	17.54
23.96	89.6	982.0	327.89	25.51	17.36
23.84	90.7	980.7	339.53	25.50	17.47
23.76	89.1	979.7	348.49	25.51	17.09
23.69	89.1	978.5	359.25	25.54	17.03
23.61	88.6	977.3	370.01	25.57	16.87
23.55	90.0	976.3	379.00	25.59	17.10
23.39	91.6	975.1	389.79	25.54	17.27
23.32	91.4	973.9	400.58	25.57	17.17
23.18	92.4	972.6	412.29	25.54	17.24
23.19	88.2	971.5	422.21	25.65	16.47
23.13	88.4	970.4	432.13	25.69	16.46
23.05	88.4	969.2	442.97	25.71	16.40
22.97	88.3	968.0	453.81	25.74	16.32
22.88	88.2	966.8	464.67	25.75	16.23
22.78	88.4	965.7	474.63	25.75	16.19
22.66	88.8	964.2	488.22	25.76	16.17
22.57	89.0	963.0	499.11	25.78	16.14
22.47	89.4	961.7	510.91	25.79	16.13



CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
22.35	89.8	960.4	522.73	25.78	16.11
22.25	90.0	959.1	534.55	25.80	16.07
22.15	90.2	958.1	543.66	25.79	16.02
22.04	90.6	956.6	557.33	25.81	16.01
21.95	90.8	955.3	569.19	25.83	15.98
21.79	91.5	953.8	582.89	25.81	15.97
21.66	91.7	952.4	595.69	25.80	15.90
21.59	91.9	951.1	607.59	25.85	15.89
21.49	91.7	949.7	620.42	25.87	15.78
21.36	91.8	948.5	631.42	25.85	15.69
21.25	92.2	946.9	646.11	25.88	15.67
21.15	92.5	945.5	658.98	25.90	15.65
21.05	92.5	944.2	670.94	25.92	15.58
21.02	90.9	942.5	686.60	26.04	15.30
20.94	90.2	941.2	698.60	26.08	15.12
20.94	85.8	939.7	712.45	26.22	14.39
20.94	83.9	938.4	724.47	26.34	14.09
20.93	81.8	937.1	736.50	26.45	13.74
20.85	81.5	935.7	749.48	26.49	13.64
20.75	81.4	934.3	762.46	26.52	13.56
20.71	78.9	932.8	776.40	26.62	13.12
20.74	75.4	931.8	785.70	26.74	12.56
20.79	70.6	930.4	798.73	26.92	11.80
20.86	67.6	929.3	808.98	27.09	11.36
20.89	67.3	928.0	821.11	27.24	11.34
20.91	68.0	926.9	831.39	27.36	11.49
20.89	67.5	925.6	843.55	27.46	11.41
20.85	68.1	924.3	855.73	27.54	11.50
20.78	68.9	923.1	866.99	27.58	11.60
20.70	69.1	921.8	879.20	27.62	11.59
20.62	69.9	920.5	891.42	27.66	11.69
20.55	69.9	919.3	902.71	27.70	11.65
20.47	70.3	918.1	914.02	27.73	11.67
20.38	70.6	916.8	926.28	27.76	11.68
20.29	71.4	915.6	937.61	27.78	11.76
20.20	71.6	914.5	948.01	27.80	11.74
20.13	71.6	913.2	960.31	27.85	11.71
20.04	71.6	912.0	971.68	27.87	11.66
19.97	71.7	910.7	984.00	27.92	11.64
19.87	71.7	909.5	995.39	27.93	11.58
19.78	71.5	908.2	1007.75	27.96	11.50
19.69	71.2	907.1	1018.21	27.97	11.40
19.60	71.0	905.8	1030.58	28.00	11.32
19.52	71.1	904.8	1040.11	28.01	11.29

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
19.42	71.1	903.4	1053.47	28.05	11.24
19.34	70.9	902.2	1064.93	28.08	11.16
19.23	70.9	900.9	1077.35	28.09	11.10
19.14	70.9	899.7	1088.83	28.11	11.05
19.05	72.6	898.6	1099.37	28.12	11.27
18.93	73.9	897.4	1110.88	28.11	11.41
18.83	75.1	896.2	1122.39	28.13	11.54
18.73	75.3	894.9	1134.88	28.15	11.51
18.63	76.0	893.6	1147.39	28.17	11.57
18.50	77.5	892.4	1158.94	28.15	11.72
18.40	79.7	891.2	1170.51	28.16	12.00
18.27	82.0	890.1	1181.13	28.14	12.26
18.15	83.8	888.8	1193.68	28.14	12.46
18.08	84.1	887.5	1206.26	28.19	12.47
17.98	84.3	886.3	1217.88	28.21	12.43
17.89	84.6	884.8	1232.42	28.26	12.43
17.84	84.2	883.7	1243.09	28.31	12.35
17.85	83.3	882.1	1258.64	28.48	12.24
17.81	83.1	880.9	1270.32	28.56	12.20
17.76	83.6	879.7	1282.02	28.62	12.25
17.74	82.0	878.4	1294.70	28.73	12.01
17.70	79.4	876.9	1309.36	28.83	11.62
17.66	77.7	875.6	1322.08	28.92	11.35
17.66	77.4	874.3	1334.81	29.05	11.32
17.59	77.5	873.0	1347.56	29.11	11.30
17.46	77.7	871.7	1360.33	29.10	11.26
17.37	77.8	870.7	1370.16	29.11	11.22
17.27	77.8	869.1	1385.90	29.16	11.17
17.19	77.6	867.9	1397.72	29.20	11.10
17.13	77.2	866.5	1411.53	29.27	11.01
17.04	77.6	865.1	1425.36	29.32	11.03
16.96	77.6	864.0	1436.24	29.35	10.98
16.89	77.5	862.4	1452.08	29.43	10.94
16.83	77.1	861.2	1463.98	29.49	10.86
16.76	76.8	860.0	1475.89	29.54	10.78
16.72	76.8	858.6	1489.81	29.64	10.77
16.60	77.1	857.3	1502.75	29.64	10.75
16.49	77.3	856.0	1515.70	29.66	10.71
16.37	77.7	854.8	1527.67	29.66	10.70
16.28	78.5	853.5	1540.65	29.69	10.77
16.19	77.9	852.2	1553.64	29.73	10.64
16.12	78.0	851.0	1565.65	29.78	10.62
16.00	78.1	849.6	1579.68	29.80	10.57
15.92	78.1	848.5	1590.71	29.83	10.53

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
15.88	77.8	847.0	1605.78	29.94	10.48
15.79	78.2	845.8	1617.85	29.97	10.49
15.67	78.1	844.6	1629.93	29.96	10.41
15.64	77.6	843.3	1643.03	30.07	10.34
15.62	77.5	842.0	1656.15	30.18	10.32
15.58	77.6	840.8	1668.28	30.26	10.33
15.46	77.7	839.6	1680.43	30.26	10.27
15.35	77.9	838.1	1695.62	30.30	10.25
15.25	77.9	836.8	1708.81	30.33	10.20
15.19	77.6	835.5	1722.02	30.40	10.13
15.08	77.3	834.3	1734.22	30.41	10.03
15.01	77.8	833.1	1746.44	30.46	10.07
14.91	79.4	831.8	1759.69	30.49	10.23
14.76	80.0	830.5	1772.95	30.47	10.22
14.71	78.5	829.0	1788.28	30.57	10.01
14.62	78.2	827.9	1799.53	30.59	9.93
14.52	77.8	826.4	1814.90	30.64	9.83
14.41	77.7	825.1	1828.23	30.66	9.76
14.34	77.3	823.9	1840.55	30.72	9.68
14.27	76.8	822.6	1853.92	30.78	9.59
14.27	76.6	821.4	1866.27	30.91	9.58
14.20	76.1	820.1	1879.67	30.97	9.49
14.13	77.0	818.8	1893.09	31.03	9.57
14.09	75.0	817.7	1904.46	31.11	9.31
14.12	73.8	816.4	1917.91	31.28	9.19
14.16	70.1	815.3	1929.31	31.44	8.76
14.06	71.8	814.0	1942.80	31.47	8.93
13.99	77.0	812.8	1955.27	31.53	9.56
13.84	79.8	811.4	1969.84	31.52	9.83
13.76	79.3	810.4	1980.26	31.54	9.73
13.71	73.7	809.1	1993.82	31.63	9.01
13.79	70.4	807.9	2006.35	31.84	8.66
13.84	66.2	806.6	2019.95	32.03	8.18
13.77	76.8	805.4	2032.52	32.09	9.48
13.68	76.5	804.2	2045.11	32.12	9.40
13.66	74.7	803.2	2055.62	32.21	9.18
13.60	73.0	801.9	2069.29	32.29	8.94
13.56	71.8	800.7	2081.93	32.38	8.78
13.50	71.6	799.5	2094.58	32.44	8.74
13.38	70.8	798.3	2107.25	32.45	8.58
13.32	70.8	797.2	2118.87	32.50	8.56
13.25	71.0	796.2	2129.45	32.54	8.56
13.11	70.9	795.0	2142.16	32.52	8.48
13.07	70.7	793.9	2153.82	32.60	8.45

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
12.95	71.2	792.7	2166.55	32.60	8.45
12.82	71.8	791.5	2179.30	32.60	8.46
12.77	72.8	790.3	2192.07	32.68	8.57
12.61	74.0	789.2	2203.78	32.63	8.63
12.48	77.0	787.8	2218.71	32.64	8.92
12.35	78.9	787.0	2227.25	32.59	9.08
12.24	79.2	785.7	2241.14	32.62	9.06
12.12	79.5	784.7	2251.83	32.60	9.04
12.04	79.3	783.6	2263.61	32.64	8.98
11.87	80.3	782.4	2276.47	32.59	9.00
11.87	81.0	781.2	2289.34	32.73	9.10
11.80	82.4	780.3	2299.01	32.75	9.22
11.78	79.4	779.1	2311.92	32.86	8.89
11.70	77.6	777.9	2324.84	32.91	8.65
11.56	77.1	776.9	2335.62	32.88	8.52
11.59	77.4	775.8	2347.49	33.03	8.59
11.57	77.5	774.6	2360.46	33.15	8.60
11.52	77.5	773.9	2368.03	33.17	8.58
11.45	77.6	772.7	2381.03	33.23	8.56
11.45	79.8	771.5	2394.04	33.37	8.82
11.42	80.5	770.5	2404.91	33.45	8.89
11.37	80.9	769.3	2417.96	33.53	8.92
11.26	81.5	768.6	2425.58	33.49	8.93
11.13	81.8	767.5	2437.56	33.48	8.90
11.04	82.0	766.3	2450.65	33.52	8.88
10.94	82.7	765.2	2462.66	33.54	8.91
10.90	82.4	764.1	2474.69	33.62	8.87
10.84	81.9	763.2	2484.54	33.66	8.79
10.79	82.1	762.2	2495.50	33.72	8.79
10.68	81.9	761.1	2507.56	33.73	8.72
10.58	81.7	760.0	2519.64	33.75	8.65
10.56	80.9	758.9	2531.73	33.85	8.57
10.56	80.7	757.9	2542.74	33.97	8.56
10.51	80.6	756.9	2553.76	34.03	8.53
10.44	80.2	755.8	2565.90	34.08	8.46
10.44	79.8	754.7	2578.05	34.21	8.43
10.38	79.8	753.8	2588.00	34.25	8.40
10.31	80.0	752.6	2601.29	34.31	8.40
10.19	80.1	751.6	2612.38	34.30	8.35
10.12	80.3	750.5	2624.58	34.35	8.35
10.07	80.6	749.4	2636.81	34.43	8.36
9.92	80.7	748.4	2647.93	34.38	8.30
9.99	81.3	747.3	2660.18	34.59	8.41
9.92	81.2	746.2	2672.45	34.64	8.38

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
9.81	81.2	745.3	2682.50	34.63	8.32
9.71	81.5	744.1	2695.91	34.66	8.31
9.66	82.3	743.1	2707.10	34.73	8.38
9.55	82.5	742.1	2718.30	34.72	8.35
9.58	82.1	740.9	2731.76	34.90	8.34
9.46	81.7	739.9	2742.99	34.89	8.24
9.38	81.1	738.8	2755.36	34.93	8.15
9.23	81.1	737.9	2765.49	34.88	8.07
9.07	81.3	736.7	2779.00	34.84	8.02
9.09	81.3	735.6	2791.41	35.00	8.04
9.04	81.3	734.7	2801.57	35.05	8.02
9.01	80.8	733.4	2816.27	35.17	7.97
8.91	80.9	732.6	2825.32	35.16	7.94
8.86	80.6	731.5	2837.79	35.24	7.89
8.82	80.6	730.3	2851.41	35.34	7.88
8.72	80.4	729.3	2862.77	35.35	7.82
8.79	78.4	728.1	2876.42	35.57	7.67
8.79	78.7	727.0	2888.95	35.71	7.71
8.81	78.7	726.2	2898.08	35.83	7.73
8.82	78.0	725.3	2908.37	35.95	7.68
8.75	76.9	724.2	2920.95	36.00	7.54
8.69	77.5	723.1	2933.55	36.07	7.58
8.65	77.5	722.3	2942.72	36.13	7.57
8.61	76.6	721.2	2955.35	36.22	7.47
8.58	75.8	720.0	2969.15	36.33	7.39
8.54	75.2	719.0	2980.66	36.41	7.32
8.45	74.6	718.1	2991.03	36.42	7.23
8.50	73.7	716.9	3004.88	36.63	7.18
8.43	72.9	716.0	3015.28	36.66	7.07
8.41	73.5	714.9	3028.01	36.78	7.13
8.27	73.3	713.8	3040.75	36.76	7.06
8.22	72.5	712.7	3053.50	36.84	6.97
8.11	71.8	711.9	3062.79	36.82	6.85
8.02	71.2	710.8	3075.57	36.86	6.76
7.96	71.3	709.2	3094.20	36.99	6.76
7.90	71.9	708.7	3100.02	36.99	6.80
7.81	74.1	707.5	3114.02	37.04	6.97
7.70	75.1	706.4	3126.87	37.05	7.03
7.53	78.3	705.3	3139.73	37.00	7.26
7.41	81.0	704.5	3149.09	36.97	7.46
7.26	78.8	703.5	3160.81	36.93	7.19
7.18	80.5	702.3	3174.88	36.99	7.32
7.08	86.1	701.3	3186.63	37.01	7.79
6.95	89.0	700.3	3198.38	36.99	7.99

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
6.85	90.4	699.3	3210.15	37.01	8.08
6.67	90.9	698.3	3221.94	36.94	8.03
6.62	90.4	697.4	3232.55	37.00	7.97
6.49	90.1	696.3	3245.54	36.99	7.88
6.37	89.9	695.2	3258.54	37.00	7.81
6.29	90.0	694.4	3268.00	37.01	7.79
6.21	90.7	693.3	3281.03	37.06	7.82
6.09	88.5	692.2	3294.07	37.07	7.57
6.02	83.1	691.4	3303.56	37.10	7.08
5.94	81.1	690.2	3317.82	37.16	6.88
5.91	78.5	689.2	3329.71	37.26	6.65
5.91	78.0	688.3	3340.43	37.37	6.62
5.89	79.2	687.4	3351.16	37.47	6.72
5.74	81.6	686.2	3365.48	37.45	6.87
5.76	82.7	685.3	3376.24	37.59	6.98
5.63	82.9	684.2	3389.41	37.59	6.94
5.61	77.7	683.3	3400.20	37.69	6.50
5.55	75.4	682.2	3413.39	37.76	6.29
5.56	73.3	681.3	3424.20	37.89	6.13
5.53	70.6	680.5	3433.82	37.96	5.90
5.53	69.6	679.6	3444.66	38.08	5.82
5.42	69.2	678.5	3457.91	38.10	5.75
5.38	68.9	677.5	3469.98	38.19	5.72
5.27	69.1	676.7	3479.65	38.17	5.70
5.17	72.0	675.7	3491.74	38.19	5.91
5.15	85.6	675.0	3500.22	38.26	7.03
5.09	87.1	673.9	3513.56	38.34	7.14
5.13	85.6	673.1	3523.27	38.49	7.04
5.12	84.3	672.2	3534.22	38.60	6.94
5.17	78.1	671.4	3543.96	38.76	6.45
5.25	79.6	670.6	3553.71	38.95	6.62
5.18	82.7	669.5	3567.14	39.02	6.86
5.11	82.9	668.8	3575.70	39.04	6.85
5.11	83.3	667.9	3586.71	39.16	6.89
4.98	83.1	666.9	3598.97	39.15	6.82
4.94	83.0	666.2	3607.55	39.19	6.80
4.81	82.9	665.4	3617.37	39.16	6.74
4.82	82.9	664.3	3630.89	39.32	6.76
4.72	82.8	663.7	3638.27	39.28	6.71
4.58	82.5	662.7	3650.58	39.26	6.63
4.53	81.8	662.0	3659.20	39.30	6.56
4.60	79.6	661.0	3671.54	39.51	6.42
4.55	78.1	660.3	3680.19	39.55	6.28
4.51	74.9	659.4	3691.32	39.63	6.01

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
4.92	63.7	658.4	3703.70	40.23	5.26
5.01	56.9	657.7	3712.39	40.42	4.73
5.07	51.4	656.9	3722.33	40.60	4.30
5.08	49.7	656.0	3733.52	40.73	4.16
5.05	48.0	655.1	3744.73	40.82	4.01
4.99	45.8	654.1	3757.20	40.89	3.82
4.92	44.9	653.4	3765.94	40.91	3.73
4.85	39.5	652.5	3777.18	40.95	3.27
4.95	35.8	651.6	3788.43	41.19	2.98
4.95	35.2	650.7	3799.70	41.32	2.94
4.86	35.2	649.8	3810.99	41.34	2.92
4.75	35.2	648.9	3822.29	41.34	2.91
4.70	35.2	648.0	3833.60	41.41	2.90
4.60	35.5	647.2	3843.66	41.41	2.91
4.47	36.9	646.3	3854.99	41.38	3.00
4.45	37.6	645.5	3865.07	41.47	3.06
4.36	37.6	644.3	3880.22	41.54	3.04
4.46	36.1	643.6	3889.07	41.75	2.94
4.31	34.8	642.8	3899.19	41.69	2.81
4.27	34.8	641.7	3913.12	41.80	2.81
4.31	35.1	641.0	3922.00	41.94	2.84
4.23	36.4	640.0	3934.70	41.99	2.94
4.11	43.1	639.0	3947.42	42.00	3.46
3.95	46.9	638.3	3956.33	41.91	3.73
3.85	54.1	637.3	3969.08	41.94	4.28
3.73	57.1	636.2	3983.12	41.96	4.49
3.62	60.2	635.4	3993.35	41.95	4.70
3.52	63.6	634.4	4006.14	41.98	4.94
3.38	64.9	633.6	4016.39	41.93	5.00
3.32	62.3	632.4	4031.78	42.03	4.79
3.28	62.2	631.7	4040.77	42.09	4.77
3.24	63.8	630.7	4053.62	42.19	4.89
3.07	64.6	629.7	4066.49	42.13	4.90
2.94	64.8	628.9	4076.80	42.10	4.87
2.88	64.0	627.7	4092.28	42.20	4.80
2.77	59.5	626.7	4105.20	42.22	4.43
2.61	63.2	625.7	4118.13	42.18	4.66
2.61	63.0	624.8	4129.78	42.31	4.66
2.30	66.5	624.0	4140.14	42.07	4.82
2.41	70.3	623.0	4153.12	42.35	5.14
2.28	69.0	621.9	4167.41	42.36	5.01
2.22	68.6	620.9	4180.42	42.43	4.97
2.28	69.5	619.9	4193.46	42.65	5.06
2.11	71.5	619.1	4203.90	42.57	5.15

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
2.02	71.3	618.1	4216.96	42.61	5.11
2.11	69.5	617.2	4228.74	42.85	5.02
1.96	69.1	616.2	4241.84	42.82	4.95
1.92	69.3	615.2	4254.96	42.92	4.95
1.87	69.4	614.4	4265.46	42.98	4.95
1.75	69.2	613.3	4279.93	43.01	4.90
1.65	69.1	612.4	4291.78	43.02	4.87
1.54	69.2	611.4	4304.96	43.04	4.84
1.48	69.0	610.5	4316.84	43.11	4.82
1.42	68.7	609.6	4328.73	43.17	4.78
1.30	68.7	608.7	4340.64	43.17	4.75
1.20	69.6	607.6	4355.21	43.22	4.78
1.09	69.8	606.7	4367.15	43.22	4.77
1.01	70.1	605.9	4377.77	43.25	4.77
0.91	70.4	605.2	4387.07	43.24	4.76
0.87	70.7	604.2	4400.37	43.34	4.77
0.76	70.6	603.2	4413.70	43.37	4.73
0.71	70.5	602.3	4425.70	43.44	4.72
0.56	69.5	601.4	4437.72	43.41	4.61
0.29	68.6	600.7	4447.07	43.20	4.46
0.29	68.4	599.8	4459.11	43.33	4.46
0.31	68.1	598.9	4471.16	43.49	4.45
0.09	68.0	598.0	4483.22	43.37	4.38
0.05	67.8	597.2	4493.96	43.45	4.36
-0.03	67.7	596.2	4507.39	43.51	4.33
-0.10	66.6	595.3	4519.50	43.56	4.25
-0.21	65.1	594.5	4530.27	43.56	4.12
-0.22	64.0	593.7	4541.06	43.67	4.06
-0.32	63.5	592.7	4554.56	43.71	4.00
-0.44	64.3	592.0	4564.02	43.67	4.02
-0.46	64.1	591.2	4574.84	43.77	4.01
-0.61	64.0	590.2	4588.38	43.75	3.97
-0.65	64.8	589.3	4600.58	43.84	4.01
-0.74	65.7	588.5	4611.44	43.86	4.04
-0.70	66.1	587.6	4623.68	44.05	4.09
-0.74	61.8	586.8	4634.57	44.12	3.81
-0.79	58.7	586.0	4645.47	44.19	3.61
-0.84	57.8	585.3	4655.02	44.24	3.55
-0.89	56.5	584.3	4668.68	44.34	3.46
-0.96	55.8	583.4	4680.99	44.40	3.41
-0.99	54.5	582.6	4691.94	44.48	3.32
-1.12	51.7	581.8	4702.91	44.46	3.13
-1.06	48.8	580.9	4715.26	44.67	2.97
-1.19	47.0	580.1	4726.25	44.64	2.83



CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-1.25	46.8	579.4	4735.88	44.68	2.81
-1.33	46.3	578.4	4749.65	44.75	2.77
-1.43	49.2	577.5	4762.06	44.77	2.93
-1.54	51.0	576.8	4771.72	44.75	3.02
-1.69	53.9	575.7	4786.92	44.75	3.16
-1.73	53.7	575.0	4796.61	44.81	3.14
-1.75	50.8	574.2	4807.69	44.92	2.97
-1.79	46.7	573.4	4818.78	45.00	2.73
-1.81	48.3	572.6	4829.89	45.10	2.82
-1.75	44.4	571.8	4841.02	45.30	2.61
-1.84	42.7	571.2	4849.37	45.29	2.49
-1.80	43.9	570.3	4861.91	45.48	2.57
-1.86	45.1	569.3	4875.87	45.57	2.64
-1.91	42.6	568.8	4882.86	45.59	2.48
-2.10	45.9	567.8	4896.85	45.53	2.64
-2.07	46.4	566.8	4910.86	45.72	2.68
-2.08	47.1	566.2	4919.28	45.81	2.72
-2.23	47.3	565.2	4933.32	45.79	2.71
-2.31	47.2	564.6	4941.76	45.79	2.69
-2.41	46.1	563.8	4953.01	45.81	2.61
-2.49	45.8	563.1	4962.87	45.82	2.58
-2.62	45.6	562.1	4976.97	45.83	2.55
-2.65	45.1	561.3	4988.27	45.93	2.52
-2.57	44.0	560.3	5002.41	46.19	2.48
-2.74	43.7	559.6	5012.33	46.10	2.43
-2.93	43.8	558.9	5022.24	45.99	2.41
-2.95	43.7	558.1	5033.59	46.10	2.40
-3.10	44.1	557.4	5043.53	46.03	2.40
-3.19	44.9	556.5	5056.32	46.07	2.43
-3.30	45.2	555.8	5066.28	46.06	2.43
-3.35	46.2	554.9	5079.10	46.15	2.48
-3.42	47.1	554.2	5089.08	46.18	2.52
-3.47	47.4	553.1	5104.79	46.30	2.53
-3.48	45.8	552.4	5114.80	46.41	2.45
-3.62	45.8	551.2	5131.99	46.44	2.43
-3.66	46.0	550.8	5137.73	46.46	2.43
-3.70	46.5	549.9	5150.64	46.56	2.45
-3.77	45.0	549.2	5160.70	46.59	2.36
-3.76	41.2	548.2	5175.09	46.77	2.17
-3.82	38.4	547.6	5183.74	46.80	2.01
-3.79	38.9	546.9	5193.84	46.95	2.05
-3.90	39.2	545.9	5208.28	46.99	2.05
-3.99	45.6	545.0	5221.30	47.04	2.38
-3.94	45.8	544.3	5231.44	47.21	2.40

**CSI Profile: STA2RS09**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-4.12	51.7	543.6	5241.60	47.12	2.67
-4.24	56.1	542.7	5254.67	47.12	2.88
-4.29	59.3	541.8	5267.75	47.22	3.04
-4.35	60.8	540.6	5285.23	47.35	3.11
-4.45	56.6	540.5	5286.69	47.25	2.87
-4.61	53.9	539.2	5305.66	47.28	2.71
-4.59	53.3	538.1	5321.74	47.49	2.69
-4.60	51.0	537.6	5329.06	47.56	2.57
-4.60	48.9	536.9	5339.32	47.68	2.47
-4.65	47.6	536.0	5352.52	47.77	2.40
-4.70	47.1	535.2	5364.28	47.85	2.37
-4.91	46.8	534.3	5377.52	47.76	2.32
-4.97	45.7	533.5	5389.30	47.82	2.26
-5.08	43.0	532.6	5402.57	47.84	2.11
-5.22	42.3	531.9	5412.90	47.80	2.06
-5.28	44.5	531.1	5424.72	47.86	2.16
-5.31	50.2	530.1	5439.51	48.00	2.43
-5.34	55.1	529.4	5449.89	48.09	2.67
-5.39	55.9	528.6	5461.76	48.17	2.70
-5.40	54.7	528.0	5470.68	48.26	2.64
-5.36	38.3	527.0	5485.56	48.48	1.86
-5.47	49.7	526.1	5498.97	48.51	2.40
-5.51	45.3	525.3	5510.91	48.60	2.18
-5.50	39.3	524.5	5522.87	48.75	1.90
-5.51	35.7	523.7	5534.84	48.88	1.72
-5.60	34.3	522.9	5546.82	48.91	1.65
-5.61	40.0	522.4	5554.32	48.99	1.92
-5.72	44.1	521.4	5569.35	49.03	2.10
-5.78	34.8	520.5	5582.88	49.12	1.65
-5.76	29.6	519.7	5594.93	49.28	1.41
-5.83	28.7	518.7	5610.02	49.38	1.36
-5.86	28.5	518.1	5619.08	49.45	1.35
-5.93	26.5	517.3	5631.18	49.51	1.25
-5.99	28.8	516.6	5641.78	49.56	1.36
-6.21	39.5	515.6	5656.94	49.47	1.84
-6.16	35.8	514.9	5667.57	49.66	1.67
-6.39	32.3	514.1	5679.73	49.52	1.48
-6.41	30.8	513.1	5694.94	49.68	1.42
-6.26	31.3	512.6	5702.57	49.95	1.46
-6.44	32.8	511.7	5716.30	49.89	1.51
-6.54	36.2	510.9	5728.53	49.92	1.65
-6.64	30.4	510.0	5742.30	49.96	1.38
-6.60	23.5	509.1	5756.09	50.17	1.07
-6.59	21.5	508.3	5768.37	50.33	0.98

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-6.64	20.4	507.9	5774.51	50.34	0.93
-6.62	20.2	507.0	5788.36	50.53	0.92
-6.70	20.7	506.2	5800.68	50.58	0.94
-6.74	24.5	505.4	5813.02	50.68	1.11
-6.83	30.6	504.5	5826.93	50.73	1.38
-6.88	30.3	503.8	5837.76	50.80	1.37
-6.95	24.4	503.3	5845.51	50.81	1.10
-6.93	20.5	503.0	5850.16	50.89	0.92
-6.97	20.6	501.5	5873.44	51.11	0.93
-6.97	23.2	500.9	5882.78	51.22	1.05
-7.05	25.6	500.4	5890.56	51.22	1.15
-7.18	29.5	499.3	5907.71	51.27	1.31
-7.31	30.1	498.5	5920.20	51.26	1.33
-7.43	31.3	497.8	5931.14	51.24	1.37
-7.51	31.4	497.3	5938.97	51.23	1.37
-7.64	32.5	496.5	5951.49	51.23	1.40
-7.70	34.3	495.6	5965.60	51.32	1.48
-7.79	35.0	494.9	5976.59	51.34	1.50
-7.96	36.1	494.4	5984.45	51.23	1.53
-8.14	36.4	493.5	5998.60	51.18	1.52
-8.19	36.0	492.6	6012.78	51.28	1.50
-8.34	35.3	492.2	6019.08	51.18	1.46
-8.35	33.1	491.4	6031.70	51.31	1.37
-8.48	36.1	490.5	6045.92	51.33	1.48
-8.54	35.7	489.8	6056.99	51.38	1.46
-8.66	36.2	489.1	6068.08	51.37	1.47
-8.88	35.9	488.3	6080.76	51.25	1.43
-8.71	25.4	487.6	6091.86	51.59	1.03
-8.76	21.5	487.2	6098.22	51.61	0.87
-8.96	28.2	486.2	6114.13	51.55	1.12
-9.04	35.3	485.7	6122.09	51.55	1.40
-9.20	40.6	484.8	6136.43	51.53	1.59
-9.30	42.6	484.2	6146.01	51.52	1.66
-9.38	41.1	483.5	6157.19	51.55	1.59
-9.60	41.3	481.7	6186.01	51.63	1.58
-9.55	42.0	481.5	6189.21	51.73	1.61
-9.67	39.6	480.5	6205.27	51.78	1.51
-9.83	38.9	479.8	6216.52	51.71	1.46
-9.91	39.3	479.2	6226.17	51.73	1.47
-9.87	38.7	478.4	6239.06	51.94	1.46
-9.93	37.7	477.6	6251.97	52.02	1.41
-10.08	36.8	477.1	6260.04	51.93	1.37
-10.10	36.1	476.0	6277.83	52.12	1.34
-10.21	35.3	475.3	6289.17	52.12	1.30

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-10.25	32.3	474.8	6297.28	52.17	1.19
-10.33	31.6	473.9	6311.88	52.25	1.16
-10.38	31.9	472.9	6328.15	52.38	1.17
-10.27	31.2	472.5	6334.66	52.60	1.15
-10.53	30.5	471.7	6347.70	52.43	1.10
-10.49	29.7	471.4	6352.60	52.54	1.08
-10.56	29.3	470.2	6372.20	52.69	1.06
-10.75	29.0	469.5	6383.66	52.59	1.04
-10.81	28.8	468.9	6393.49	52.64	1.03
-10.86	25.7	468.1	6406.61	52.74	0.91
-10.79	23.1	467.4	6418.10	52.96	0.83
-10.95	22.5	466.6	6431.26	52.92	0.80
-10.93	22.5	465.8	6444.44	53.11	0.80
-11.02	23.5	465.3	6452.69	53.10	0.83
-11.19	26.4	464.4	6467.54	53.06	0.92
-11.26	28.5	463.9	6475.81	53.08	0.99
-11.45	29.2	463.3	6485.73	52.96	1.00
-11.50	29.7	462.5	6498.98	53.06	1.01
-11.56	30.2	461.8	6510.58	53.13	1.03
-11.73	30.7	461.1	6522.20	53.06	1.03
-11.82	31.1	460.3	6535.50	53.11	1.04
-11.94	31.3	459.5	6548.81	53.12	1.04
-12.05	30.4	458.6	6563.81	53.16	1.00
-12.10	28.7	458.1	6572.15	53.20	0.94
-12.15	26.9	457.7	6578.83	53.22	0.88
-12.26	25.1	456.9	6592.20	53.25	0.82
-12.34	23.3	456.3	6602.24	53.27	0.75
-12.30	20.9	455.4	6617.32	53.51	0.68
-12.42	20.2	454.7	6629.06	53.50	0.65
-12.47	20.1	454.1	6639.14	53.56	0.65
-12.67	20.2	453.3	6652.60	53.47	0.64
-12.64	20.0	452.6	6664.39	53.66	0.64
-12.64	19.2	451.8	6677.88	53.82	0.61
-12.66	18.3	451.2	6688.02	53.92	0.58
-12.90	18.3	450.4	6701.55	53.79	0.57
-12.94	17.9	449.7	6713.40	53.88	0.56
-13.06	17.7	448.8	6728.66	53.92	0.55
-13.04	17.6	448.3	6737.15	54.05	0.55
-13.16	17.3	447.5	6750.75	54.06	0.53
-13.23	17.3	446.5	6767.78	54.18	0.53
-13.33	17.3	446.0	6776.31	54.16	0.53
-13.30	17.4	445.4	6786.55	54.33	0.53
-13.48	17.4	444.4	6803.65	54.31	0.53
-13.54	17.4	443.8	6813.92	54.36	0.52

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-13.53	17.3	443.1	6825.92	54.52	0.52
-13.59	17.3	442.2	6841.37	54.64	0.52
-13.67	17.3	441.6	6851.69	54.66	0.52
-13.85	17.3	440.8	6865.46	54.61	0.51
-14.00	17.3	440.2	6875.80	54.54	0.51
-14.08	17.3	439.5	6887.88	54.59	0.50
-14.10	17.4	438.5	6905.16	54.78	0.51
-14.18	17.3	437.8	6917.27	54.83	0.50
-14.48	17.3	437.1	6929.40	54.60	0.49
-14.61	17.3	436.5	6939.80	54.56	0.49
-14.55	17.2	435.7	6953.69	54.81	0.49
-14.60	17.2	435.2	6962.38	54.85	0.48
-14.56	17.1	434.2	6979.80	55.12	0.48
-14.83	17.0	433.5	6992.01	54.93	0.47
-14.83	17.1	432.9	7002.49	55.06	0.48
-14.91	17.0	431.9	7019.98	55.17	0.47
-15.00	17.1	431.2	7032.24	55.21	0.47
-15.12	17.2	430.6	7042.76	55.19	0.47
-15.23	17.1	429.6	7060.32	55.27	0.46
-15.31	17.2	428.9	7072.64	55.32	0.46
-15.35	17.4	428.4	7081.44	55.38	0.47
-15.44	17.5	427.7	7093.78	55.42	0.47
-15.61	17.5	426.9	7107.91	55.38	0.46
-15.62	17.5	426.0	7123.82	55.56	0.46
-15.79	17.4	425.7	7129.13	55.41	0.45
-15.88	17.4	424.8	7145.08	55.50	0.45
-15.99	17.3	424.0	7159.27	55.53	0.45
-15.99	17.3	423.5	7168.16	55.64	0.45
-16.14	17.3	422.6	7184.17	55.65	0.44
-16.15	17.3	421.9	7196.65	55.79	0.44
-16.16	17.4	421.2	7209.14	55.94	0.44
-16.32	17.4	420.4	7223.44	55.91	0.44
-16.53	17.5	419.8	7234.18	55.78	0.44
-16.59	17.5	419.0	7248.51	55.88	0.43
-16.57	17.3	418.2	7262.87	56.09	0.43
-16.75	17.2	418.0	7266.46	55.90	0.42
-16.81	17.1	417.1	7282.64	56.03	0.42
-16.80	17.1	416.1	7300.66	56.26	0.42
-16.92	17.1	415.6	7309.68	56.22	0.42
-17.03	17.0	414.7	7325.94	56.29	0.41
-17.14	17.0	414.1	7336.79	56.28	0.41
-17.29	17.1	413.3	7351.28	56.27	0.40
-17.46	17.1	413.0	7356.72	56.12	0.40
-17.50	17.1	412.1	7373.05	56.27	0.40

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-17.58	17.2	411.2	7389.42	56.38	0.40
-17.65	17.1	410.6	7400.34	56.42	0.40
-17.74	17.1	410.0	7411.28	56.45	0.39
-17.87	17.0	409.1	7427.71	56.49	0.39
-17.92	17.1	408.5	7438.68	56.56	0.39
-18.02	17.1	407.7	7453.32	56.61	0.39
-18.15	17.1	407.1	7464.32	56.59	0.38
-18.22	17.1	406.6	7473.50	56.61	0.38
-18.30	17.2	405.8	7488.19	56.69	0.38
-18.44	17.2	405.0	7502.91	56.70	0.38
-18.58	17.2	404.3	7515.81	56.68	0.37
-18.72	17.3	404.1	7519.50	56.55	0.37
-18.72	17.2	402.8	7543.50	56.85	0.37
-18.92	17.3	402.1	7556.45	56.75	0.37
-19.01	18.2	401.8	7562.01	56.71	0.38
-19.16	19.1	401.2	7573.12	56.65	0.40
-19.27	19.5	400.3	7589.82	56.72	0.40
-19.34	19.9	399.3	7608.41	56.87	0.41
-19.51	20.4	398.8	7617.72	56.76	0.41
-19.58	20.6	398.3	7627.04	56.79	0.42
-19.65	20.3	397.4	7643.83	56.91	0.41
-19.77	20.3	396.6	7658.78	56.95	0.41
-19.73	20.1	395.9	7671.89	57.17	0.40
-19.85	21.0	395.4	7681.26	57.13	0.42
-19.97	21.9	394.7	7694.40	57.14	0.43
-20.18	22.4	393.9	7709.44	57.06	0.43
-20.06	22.9	393.4	7718.85	57.34	0.45
-19.98	23.0	392.7	7732.05	57.61	0.46
-20.34	22.8	392.0	7745.26	57.31	0.44
-20.44	24.3	391.4	7756.60	57.32	0.46
-20.43	23.9	390.9	7766.06	57.45	0.46
-20.50	23.3	390.3	7777.42	57.51	0.44
-20.61	22.8	389.3	7796.40	57.61	0.43
-20.69	22.5	389.0	7802.10	57.57	0.42
-20.80	22.3	388.2	7817.31	57.63	0.42
-20.81	22.1	387.5	7830.64	57.78	0.41
-20.94	21.9	386.7	7845.91	57.81	0.40
-21.11	21.9	386.3	7853.55	57.68	0.40
-21.13	22.0	386.0	7859.28	57.73	0.40
-21.29	22.1	385.0	7878.42	57.77	0.40
-21.28	22.4	384.3	7891.84	57.95	0.40
-21.53	22.7	383.7	7903.35	57.77	0.40
-21.59	23.0	383.5	7907.20	57.74	0.40
-21.66	23.4	382.4	7928.35	57.92	0.41

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-21.82	23.6	381.9	7937.98	57.83	0.41
-21.88	23.9	381.5	7945.69	57.85	0.41
-22.04	24.1	380.7	7961.13	57.84	0.41
-22.04	24.4	379.8	7978.53	58.07	0.42
-22.17	24.7	379.4	7986.28	57.99	0.42
-22.27	25.6	379.0	7994.03	57.96	0.43
-22.42	28.5	378.4	8005.66	57.91	0.47
-22.40	30.9	377.5	8023.15	58.17	0.51
-22.49	34.1	377.0	8032.88	58.17	0.56
-22.29	27.9	376.2	8048.47	58.64	0.47
-22.41	26.5	375.4	8064.11	58.68	0.44
-22.46	25.9	374.2	8087.61	58.92	0.43
-22.58	25.4	373.6	8099.38	58.91	0.42
-22.75	25.5	372.2	8126.92	59.04	0.42
-22.94	27.8	371.3	8144.66	59.02	0.45
-23.19	29.0	370.5	8160.46	58.90	0.46
-23.28	33.3	370.4	8162.43	58.80	0.52
-23.32	33.7	369.7	8176.27	58.93	0.53
-23.27	31.4	368.7	8196.09	59.25	0.50
-23.54	27.5	367.3	8223.91	59.25	0.43
-23.88	25.5	366.5	8239.83	59.01	0.38
-24.00	25.3	365.2	8265.76	59.19	0.38
-24.15	25.2	364.8	8273.75	59.09	0.37
-24.07	25.2	364.7	8275.75	59.22	0.37
-24.12	25.1	363.8	8293.77	59.39	0.37
-24.32	25.2	362.9	8311.82	59.36	0.37
-24.40	25.5	362.5	8319.85	59.36	0.37
-24.53	25.5	362.1	8327.89	59.29	0.37
-24.67	25.8	361.4	8341.97	59.29	0.37
-24.80	26.0	360.3	8364.14	59.40	0.37
-24.88	26.4	359.5	8380.31	59.51	0.37
-24.97	26.7	359.0	8390.42	59.52	0.37
-25.34	27.4	358.0	8410.67	59.29	0.37
-25.33	27.6	357.1	8428.94	59.54	0.37
-25.56	28.0	356.9	8433.00	59.28	0.37
-25.69	28.4	356.6	8439.09	59.19	0.37
-25.86	28.9	355.0	8471.67	59.39	0.37
-25.96	29.2	354.4	8483.91	59.41	0.38
-26.22	29.6	351.7	8539.23	59.79	0.37
-26.60	29.7	350.2	8570.11	59.69	0.36
-26.64	29.6	349.5	8584.55	59.82	0.36
-26.78	29.5	348.1	8613.51	60.02	0.36
-27.10	29.4	347.9	8617.65	59.64	0.35
-27.12	29.3	346.8	8640.47	59.91	0.35

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-27.17	29.3	346.2	8652.94	60.01	0.35
-27.44	28.7	345.6	8665.42	59.81	0.33
-27.64	27.4	342.8	8723.92	60.31	0.31
-27.99	28.4	341.6	8749.11	60.17	0.31
-28.09	28.6	341.0	8761.72	60.20	0.31
-28.09	29.1	339.9	8784.91	60.51	0.32
-28.76	29.4	339.7	8789.12	59.66	0.30
-28.74	29.7	339.2	8799.66	59.82	0.31
-28.74	29.5	338.9	8805.99	59.91	0.31
-28.83	29.4	338.4	8816.56	59.92	0.30
-28.73	29.5	337.9	8827.14	60.20	0.31
-28.89	29.7	337.2	8841.97	60.18	0.31
-28.95	30.0	336.2	8863.21	60.38	0.31
-29.08	30.2	336.0	8867.46	60.26	0.31
-29.24	30.3	335.5	8878.10	60.19	0.30
-29.28	30.3	334.9	8890.88	60.30	0.30
-29.33	30.6	334.6	8897.28	60.32	0.30
-29.48	31.3	334.1	8907.95	60.26	0.31
-29.57	31.8	333.4	8922.91	60.33	0.31
-29.73	32.3	332.9	8933.61	60.26	0.31
-29.67	33.0	332.2	8948.61	60.54	0.32
-29.84	33.6	331.8	8957.20	60.42	0.32
-29.76	34.2	331.1	8972.25	60.73	0.33
-30.10	34.6	330.5	8985.16	60.44	0.32
-30.30	34.9	330.1	8993.78	60.28	0.32
-30.37	35.0	329.9	8998.08	60.24	0.32
-30.46	35.2	329.1	9015.34	60.35	0.32
-30.43	35.4	328.3	9032.63	60.62	0.32
-30.58	35.5	327.7	9045.63	60.59	0.32
-30.55	35.2	327.1	9058.64	60.81	0.32
-30.64	34.4	327.0	9060.82	60.71	0.31
-30.52	33.8	326.1	9080.39	61.14	0.31
-30.71	33.3	325.6	9091.29	61.03	0.30
-30.71	32.7	324.9	9106.56	61.23	0.29
-30.73	32.1	324.5	9115.31	61.32	0.29
-30.90	31.7	324.1	9124.06	61.21	0.28
-31.05	31.3	323.3	9141.58	61.24	0.27
-31.12	31.1	322.9	9150.35	61.26	0.27
-31.12	30.9	322.0	9170.13	61.52	0.27
-31.22	30.8	321.3	9185.55	61.59	0.27
-31.37	30.8	321.1	9189.96	61.45	0.26
-31.49	30.8	320.5	9203.19	61.46	0.26
-31.59	30.7	319.7	9220.87	61.56	0.26
-31.74	30.6	319.4	9227.51	61.44	0.25



CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-31.84	30.6	318.9	9238.58	61.45	0.25
-31.94	30.6	318.2	9254.10	61.52	0.25
-32.09	30.5	317.6	9267.42	61.50	0.25
-32.15	30.5	317.1	9278.54	61.56	0.24
-32.17	30.6	316.7	9287.45	61.66	0.24
-32.33	30.5	315.9	9305.28	61.68	0.24
-32.44	30.6	315.4	9316.45	61.68	0.24
-32.57	30.6	314.8	9329.87	61.68	0.24
-32.60	30.6	314.1	9345.54	61.85	0.24
-32.81	30.6	313.5	9359.00	61.74	0.23
-32.90	30.7	313.1	9367.98	61.74	0.23
-33.15	30.7	312.5	9381.47	61.57	0.23
-33.21	30.7	311.9	9394.97	61.67	0.23
-33.39	30.8	311.3	9408.49	61.61	0.22
-33.52	30.8	310.4	9428.81	61.70	0.22
-33.65	30.9	310.0	9437.85	61.64	0.22
-33.63	31.0	309.4	9451.44	61.86	0.22
-33.77	31.2	309.0	9460.51	61.78	0.22
-34.20	31.4	308.2	9478.66	61.43	0.21
-34.17	31.8	307.7	9490.02	61.63	0.22
-34.32	32.3	307.2	9501.39	61.57	0.22
-34.44	33.0	306.4	9519.62	61.66	0.22
-34.53	33.5	306.0	9528.75	61.65	0.22
-34.61	34.0	305.4	9542.45	61.73	0.22
-34.68	34.6	305.1	9549.32	61.73	0.22
-34.79	35.3	304.7	9558.47	61.70	0.23
-34.95	36.1	303.9	9576.81	61.72	0.23
-35.01	36.9	303.3	9590.59	61.83	0.23
-35.19	37.6	302.6	9606.70	61.80	0.23
-35.31	38.2	302.4	9611.30	61.69	0.23
-35.37	38.3	301.7	9627.44	61.83	0.23
-35.44	38.2	301.4	9634.36	61.83	0.23
-35.47	38.0	300.6	9652.86	62.04	0.23
-35.62	37.9	300.2	9662.12	61.95	0.23
-35.79	37.9	299.4	9680.67	61.97	0.22
-35.89	38.0	299.1	9687.63	61.92	0.22
-36.08	37.9	298.4	9703.90	61.88	0.22
-36.24	37.9	298.1	9710.88	61.75	0.22
-36.36	37.9	297.1	9734.18	61.90	0.21
-36.30	37.8	296.9	9738.85	62.05	0.21
-36.27	37.7	296.4	9750.54	62.26	0.21
-36.58	37.6	296.0	9759.89	61.95	0.21
-37.03	37.5	295.4	9773.93	61.50	0.20
-36.96	37.4	294.8	9787.99	61.80	0.20

### CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-37.02	37.3	294.6	9792.68	61.78	0.20
-37.09	37.2	293.6	9816.18	62.00	0.20
-37.13	37.2	293.2	9825.61	62.08	0.20
-37.30	37.2	292.9	9832.68	61.93	0.19
-37.35	37.2	292.3	9846.83	62.06	0.19
-37.47	37.3	291.9	9856.28	62.02	0.19
-37.48	37.4	291.3	9870.48	62.20	0.19
-37.67	37.5	290.7	9884.70	62.13	0.19
-37.71	37.5	290.4	9891.82	62.17	0.19
-37.76	37.6	289.9	9903.69	62.27	0.19
-38.06	37.6	289.0	9925.11	62.14	0.18
-38.14	37.7	288.9	9927.49	62.06	0.18
-38.18	37.8	288.8	9929.87	62.03	0.18
-38.25	37.8	287.6	9958.51	62.33	0.18
-38.35	37.9	287.4	9963.29	62.26	0.18
-38.61	38.0	286.8	9977.65	62.08	0.18
-38.82	38.0	286.5	9984.83	61.89	0.17
-39.05	38.1	286.0	9996.81	61.72	0.17
-39.08	38.2	285.6	10006.40	61.81	0.17
-39.00	38.4	285.3	10013.60	62.03	0.17
-39.06	38.5	284.7	10028.03	62.15	0.17
-39.14	38.8	284.1	10042.49	62.23	0.17
-39.29	39.1	283.4	10059.38	62.26	0.17
-39.48	39.5	282.8	10073.89	62.19	0.17
-39.49	39.9	282.3	10085.99	62.34	0.17
-39.71	40.9	281.9	10095.68	62.16	0.17
-39.78	41.5	281.5	10105.39	62.20	0.17
-39.92	41.9	280.8	10122.39	62.23	0.17
-40.00	41.9	280.3	10134.56	62.29	0.17
-40.04	41.6	279.9	10144.30	62.37	0.17
-40.04	41.3	279.5	10154.06	62.51	0.17
-40.57	40.9	279.1	10163.83	61.88	0.16
-40.23	40.8	279.0	10166.27	62.41	0.16
-40.70	40.5	278.2	10185.83	62.00	0.16
-40.50	40.3	277.8	10195.62	62.43	0.16
-40.31	40.1	277.5	10202.99	62.81	0.16
-40.30	39.9	276.8	10220.20	63.06	0.16
-40.41	39.7	276.1	10237.46	63.15	0.16
-40.67	39.6	276.0	10239.93	62.81	0.15
-40.87	39.5	274.9	10267.09	62.90	0.15
-40.81	39.4	274.7	10272.04	63.06	0.15
-40.95	39.2	274.2	10284.43	63.03	0.15
-40.98	39.1	273.7	10296.84	63.16	0.15
-40.91	39.0	273.3	10306.78	63.41	0.15

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-41.22	38.8	273.0	10314.24	63.06	0.14
-41.21	38.6	272.3	10331.67	63.32	0.14
-41.23	38.5	272.1	10336.66	63.37	0.14
-41.20	38.2	271.3	10356.65	63.69	0.14
-41.53	38.0	270.8	10369.17	63.39	0.14
-41.45	37.7	270.3	10381.70	63.69	0.14
-41.56	37.6	269.7	10396.77	63.74	0.14
-41.64	37.5	269.4	10404.32	63.73	0.13
-41.70	37.2	269.3	10406.83	63.68	0.13
-41.75	37.1	267.5	10452.27	64.25	0.13
-42.02	36.9	267.3	10457.33	63.93	0.13
-41.77	36.5	266.9	10467.47	64.44	0.13
-42.30	36.3	266.4	10480.16	63.85	0.12
-42.28	36.2	266.3	10482.69	63.91	0.12
-42.41	36.1	265.5	10503.02	64.01	0.12
-42.62	35.9	264.2	10536.16	64.18	0.12
-42.80	35.7	263.1	10564.31	64.32	0.12
-42.94	35.8	262.6	10577.13	64.30	0.11
-43.01	35.8	261.8	10597.69	64.49	0.11
-42.98	35.9	261.6	10602.84	64.61	0.11
-43.28	35.9	260.9	10620.88	64.43	0.11
-43.22	35.9	260.6	10628.62	64.62	0.11
-43.71	35.9	259.9	10646.71	64.16	0.11
-43.60	35.9	259.3	10662.24	64.55	0.11
-43.69	36.0	258.4	10685.60	64.75	0.11
-43.69	36.2	258.1	10693.40	64.86	0.11
-43.98	36.3	257.9	10698.60	64.51	0.11
-44.03	36.3	257.2	10716.83	64.70	0.11
-44.14	36.4	256.8	10727.27	64.69	0.10
-44.12	36.5	255.8	10753.43	65.10	0.11
-44.29	36.5	255.7	10756.05	64.88	0.10
-44.41	36.6	254.6	10784.93	65.12	0.10
-44.89	36.7	254.4	10790.18	64.49	0.10
-44.94	36.7	253.9	10803.33	64.60	0.10
-45.35	36.8	252.2	10848.17	64.65	0.09
-45.50	36.9	252.0	10853.46	64.50	0.09
-45.65	37.1	250.9	10882.60	64.70	0.09
-45.56	37.2	250.8	10885.25	64.87	0.09
-46.00	37.2	250.3	10898.54	64.41	0.09
-45.99	37.3	249.7	10914.50	64.66	0.09
-46.56	37.3	248.4	10949.16	64.31	0.08
-46.86	37.6	247.2	10981.26	64.33	0.08
-46.99	37.6	246.2	11008.11	64.53	0.08
-47.24	37.8	246.0	11013.48	64.24	0.08

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-47.36	37.8	245.7	11021.55	64.18	0.08
-47.50	37.9	244.3	11059.31	64.52	0.08
-48.03	37.9	244.2	11062.01	63.76	0.07
-47.95	38.0	243.3	11086.35	64.24	0.07
-48.05	38.2	242.9	11097.19	64.25	0.07
-48.29	38.2	242.4	11110.76	64.09	0.07
-48.47	38.3	241.9	11124.35	64.02	0.07
-48.55	38.3	241.3	11140.68	64.14	0.07
-48.54	38.3	241.1	11146.13	64.23	0.07
-48.56	38.3	240.5	11162.52	64.44	0.07
-48.61	38.3	240.1	11173.46	64.53	0.07
-49.03	38.3	240.0	11176.19	63.94	0.07
-48.97	38.3	239.3	11195.36	64.31	0.07
-49.08	38.3	239.0	11203.59	64.26	0.07
-49.04	38.3	238.6	11214.58	64.49	0.07
-49.09	38.3	238.3	11222.83	64.53	0.07
-49.26	38.3	237.7	11239.36	64.52	0.07
-49.32	38.4	237.1	11255.92	64.67	0.07
-49.46	38.3	236.7	11266.98	64.62	0.07
-49.63	38.3	236.1	11283.59	64.61	0.06
-49.86	38.3	235.5	11300.24	64.51	0.06
-49.73	38.4	235.2	11308.57	64.83	0.06
-49.96	38.4	234.9	11316.91	64.61	0.06
-50.12	38.4	234.3	11333.62	64.61	0.06
-50.33	38.4	234.0	11341.98	64.42	0.06
-50.35	38.4	233.7	11350.34	64.51	0.06
-50.60	38.4	233.3	11361.51	64.30	0.06
-50.72	38.4	232.7	11378.28	64.36	0.06
-50.69	38.4	232.1	11395.09	64.66	0.06
-50.72	38.5	231.6	11409.14	64.82	0.06
-50.77	38.5	231.5	11411.95	64.79	0.06
-50.85	38.5	231.1	11423.20	64.83	0.06
-50.96	38.5	230.7	11434.47	64.83	0.06
-51.20	38.5	230.1	11451.40	64.72	0.06
-51.43	38.5	229.9	11457.05	64.45	0.05
-51.45	38.5	229.5	11468.35	64.59	0.05
-51.55	38.4	228.5	11496.69	64.86	0.05
-51.45	38.5	227.2	11533.70	65.56	0.05
-52.08	38.5	226.8	11545.12	64.77	0.05
-52.31	38.4	226.3	11559.40	64.63	0.05
-52.31	38.5	226.0	11567.97	64.76	0.05
-52.63	38.4	225.5	11582.28	64.49	0.05
-52.83	38.4	225.0	11596.61	64.39	0.05
-53.04	38.4	224.6	11608.08	64.24	0.05

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-52.96	38.4	224.5	11610.95	64.41	0.05
-53.12	38.3	223.8	11631.07	64.47	0.04
-53.45	38.3	223.1	11651.23	64.26	0.04
-53.15	38.4	222.9	11657.00	64.81	0.04
-53.69	38.4	222.8	11659.89	64.02	0.04
-53.73	38.3	222.4	11671.43	64.13	0.04
-53.82	38.3	222.1	11680.10	64.13	0.04
-53.72	38.4	221.4	11700.37	64.58	0.04
-54.14	38.3	221.1	11709.07	64.07	0.04
-54.34	38.3	220.9	11714.87	63.85	0.04
-54.39	38.3	220.2	11735.20	64.08	0.04
-54.25	38.3	219.7	11749.76	64.51	0.04
-54.64	38.3	218.9	11773.11	64.26	0.04
-55.30	38.2	218.5	11784.80	63.42	0.03
-55.16	38.2	217.9	11802.34	63.90	0.04
-55.36	38.2	217.7	11808.19	63.68	0.03
-55.50	38.2	217.2	11822.85	63.68	0.03
-55.48	38.2	216.5	11843.42	64.03	0.03
-55.48	38.2	216.4	11846.36	64.07	0.03
-55.80	38.1	216.0	11858.14	63.75	0.03
-55.58	38.2	215.8	11864.04	64.18	0.03
-55.58	38.2	215.0	11887.69	64.54	0.03
-56.12	38.1	214.7	11896.57	63.84	0.03
-56.49	38.0	214.5	11902.49	63.35	0.03
-56.33	38.1	213.9	11920.26	63.87	0.03
-56.46	38.1	213.3	11938.08	63.94	0.03
-56.73	38.0	212.8	11952.96	63.75	0.03
-57.01	38.0	212.7	11955.94	63.36	0.03
-56.78	38.0	212.4	11964.87	63.85	0.03
-56.39	38.1	211.4	11994.79	64.91	0.03
-57.45	37.9	210.3	12027.81	63.76	0.03
-57.50	37.9	210.2	12030.81	63.73	0.03
-57.15	38.0	209.4	12054.90	64.65	0.03
-57.55	37.9	208.5	12082.11	64.44	0.03
-57.88	37.9	208.4	12085.14	63.97	0.03
-58.10	37.9	207.4	12115.43	64.08	0.03
-58.21	37.9	207.1	12124.54	64.05	0.03
-58.77	37.8	206.3	12148.86	63.55	0.02
-58.98	37.8	205.5	12173.23	63.59	0.02
-59.38	37.7	204.8	12194.60	63.29	0.02
-59.46	37.7	204.5	12203.77	63.30	0.02
-59.42	37.7	204.2	12212.96	63.51	0.02
-59.41	37.7	203.8	12225.23	63.71	0.02
-59.34	37.7	202.9	12252.92	64.25	0.02

CSI Profile: STA2RS09

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-59.65	37.6	202.3	12271.44	64.05	0.02
-59.96	37.6	201.4	12299.29	63.99	0.02
-59.69	37.6	200.8	12317.92	64.70	0.02
-60.16	37.5	199.3	12364.72	64.68	0.02
-60.31	37.5	198.8	12380.38	64.69	0.02
-60.27	37.5	198.0	12405.50	65.14	0.02
-59.93	37.4	197.5	12421.27	65.92	0.02
-59.57	37.4	197.3	12427.60	66.60	0.02
-59.73	37.4	196.3	12459.36	66.84	0.02
-59.76	37.4	196.2	12462.54	66.84	0.02
-59.85	37.3	196.1	12465.72	66.74	0.02
-62.02	36.9	195.7	12478.41	63.48	0.02
-61.57	37.0	195.3	12491.06	64.40	0.02
-61.91	36.9	195.1	12497.41	63.95	0.02
-61.29	37.0	194.8	12506.93	65.09	0.02
-62.35	36.8	194.7	12510.11	63.45	0.02
-60.43	37.1	194.4	12519.67	66.66	0.02
-61.64	36.9	193.8	12538.86	65.03	0.02
-61.35	36.9	193.3	12554.87	65.74	0.02
-59.29	37.1	193.1	12561.32	69.14	0.02
-60.38	36.9	192.2	12590.49	67.85	0.02
-60.75	36.8	191.8	12603.45	67.46	0.02
-61.18	36.8	191.5	12613.18	66.92	0.02
-61.39	36.7	191.4	12616.42	66.64	0.02
-61.10	36.8	190.8	12635.89	67.41	0.02
-61.48	36.7	190.1	12658.68	67.16	0.02



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring  
PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA3RS01  
Radiosonde ✓ Tethersonde \_\_\_\_\_  
Rawinsonde \_\_\_\_\_ Tetroon \_\_\_\_\_  
Date 8/4/94 Ob Time 1858 CDT  
Site Pass-A-Loutie Wildlife Camp, Louisiana  
Observer Blanchard

Barometric Pressure:	<u>1014.2*</u>	mBars
Dry-Bulb Temperature:	<u>29.1</u>	degrees C
Wet-Bulb Temperature:	<u>26.2</u>	degrees C
Relative Humidity:	<u>80%</u>	percent
Wind Speed:	<u>2</u>	<del>knots</del> mph m/s
Wind Direction:	<u>124</u>	degrees <del>M</del> T
Sonde Battery Voltage:	<u>9.5</u>	VDC
Actual Time of Launch:	<u>1906 CDT</u>	<u>0006 GMT</u>

Comments: (Cloud cover, type, flight description, etc.)

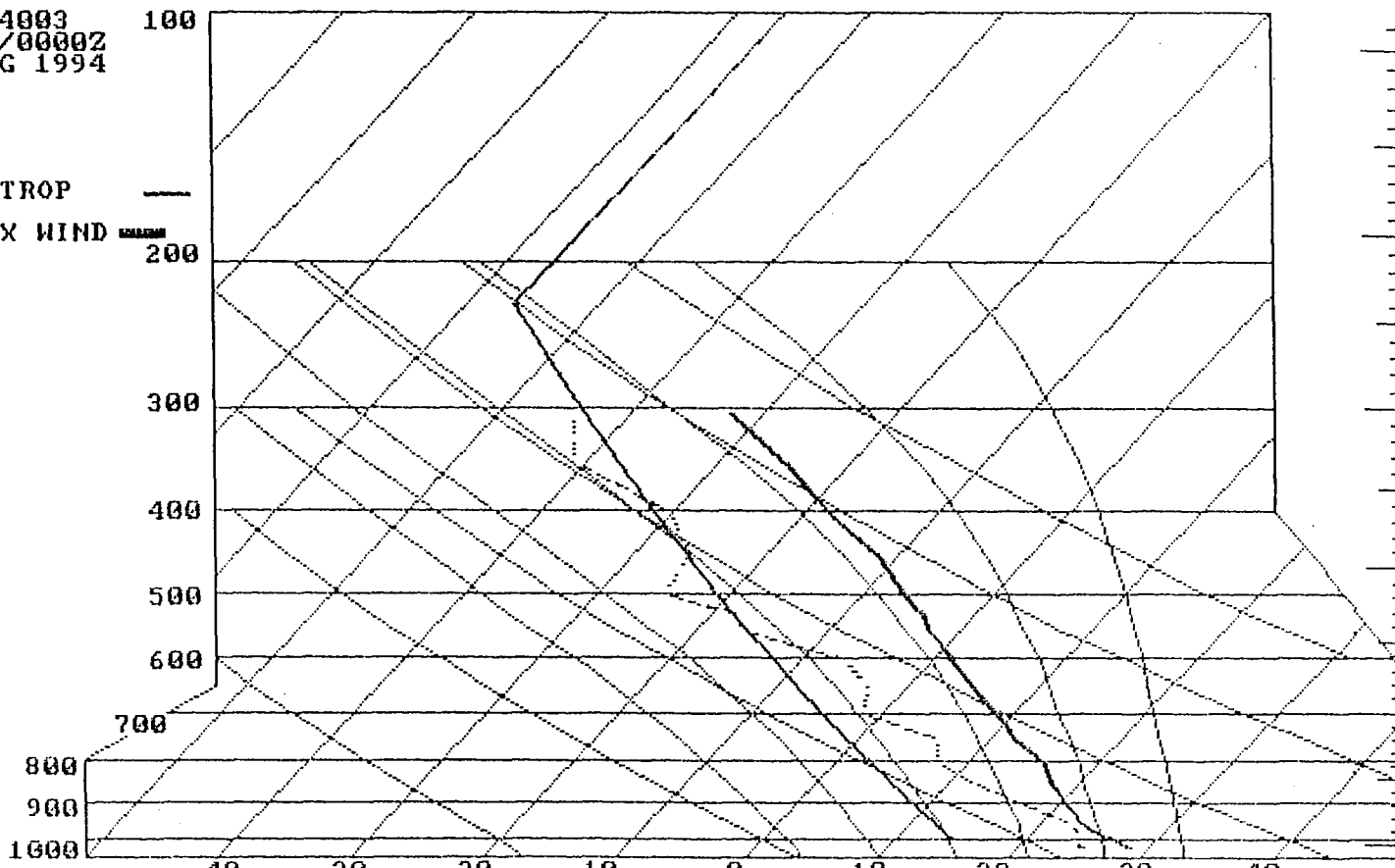
SCT Cu humilis (congestus, ci  
Hygistor: 10387 ohms, R.D. 78.15  
Tower values: T<sub>dry</sub> = 29.1  
RH = 67.6  
PR = 1021  
Winds above list

Additional Comments on Back

\* Sfc pressure correction +6.2 ~ 1020.4 mb.

94003  
05/0000Z  
AUG 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU

USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-224



Station Number: 94003

DTG of RAOB: 05/0000Z AUG 1994

Indices		Sfc Data: 1020mb T= 28.2°C Td= 24.7°C			Heights		
SSI	= 1.6	-184ft Sfc Wind: 999/0-1kt			100mb	= MISG	
KO	= -17.5				150mb	= MISG	
K Index	= 26.3	Adiabatic Processes			200mb	= MISG	
Lifted Index	= -4.5	Wet Bulb Zero	= 625mb	--	12788ft	250mb	= MISG
Sweat Index	= Missing	LCL	= 970mb	23.9°C	1215ft	300mb	= MISG
Total-Totals	= 43.4	LFC	= 965mb	23.6°C	1344ft	400mb	= 7630M
U Totals	= 24.7	CCL	= 967mb	23.8°C	1273ft	500mb	= 5930M
X Totals	= 18.7	Tc	= --	28.3°C	--	700mb	= 3236M
Fog SI	= Missing	CCL E.L.	= None			850mb	= 1599M
Fog Threat	= -3.7	LFC E.L.	= None			1000mb	= 178M
Fog Point	= 23.8°C	850mb WBPT	= --	20.1°C	--		

Inversion Layers	Type	Break	Freezing Levels
None			585mb 14407ft

Thickness	
500-300mb	= MISG
700-500mb	= 2694M
850-500mb	= 4331M
850-700mb	= 1637M
1000-500mb	= 5752M
1000-700mb	= 3058M
1000-850mb	= 1421M

Max Wind  
None Reported

Icing Layers		
Base	Top	Intensity
None		

Turbulence Layers		
Base	Top	Shear
None		

Trop Data  
None Reported

THREAT COLORS

█	Low
█	Moderate
█	High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEW T Analysis

(All Heights MSL)

D-225

### CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
28.18	81.5	1020.4	2.00	26.44	19.56
28.16	82.5	1020.3	2.87	26.43	19.79
28.08	80.3	1018.5	18.63	26.50	19.19
27.96	78.4	1017.3	29.14	26.49	18.61
27.90	78.7	1015.9	41.41	26.54	18.64
27.81	78.8	1014.5	53.70	26.57	18.59
27.78	78.3	1013.2	65.12	26.65	18.46
27.68	79.1	1011.9	76.55	26.66	18.57
27.57	79.5	1010.6	87.99	26.66	18.57
27.42	79.6	1009.3	99.45	26.63	18.45
27.32	80.0	1008.1	110.03	26.63	18.45
27.24	80.5	1006.8	121.50	26.66	18.51
27.07	80.9	1005.4	133.87	26.61	18.44
27.00	81.1	1004.1	145.36	26.65	18.43
26.94	82.0	1003.1	154.21	26.67	18.59
26.83	82.3	1001.8	165.73	26.68	18.57
26.63	82.7	1000.4	178.14	26.60	18.46
26.48	83.0	999.3	187.90	26.54	18.38
26.33	83.3	998.0	199.44	26.50	18.31
26.20	83.6	996.8	210.10	26.47	18.25
26.18	83.9	995.3	223.44	26.58	18.33
26.13	84.8	994.0	235.02	26.65	18.50
26.00	85.1	992.6	247.50	26.64	18.45
25.90	85.4	991.4	258.20	26.64	18.42
25.82	86.0	989.9	271.60	26.69	18.50
25.66	87.0	988.6	283.23	26.64	18.56
25.53	87.9	987.4	293.97	26.62	18.63
25.45	88.2	986.0	306.51	26.66	18.64
25.39	87.6	984.5	319.96	26.73	18.47
25.24	88.4	983.2	331.63	26.69	18.50
25.14	88.4	982.1	341.52	26.68	18.40
24.97	88.7	980.6	355.01	26.65	18.31
24.86	89.9	979.0	369.41	26.67	18.47
24.76	90.1	977.4	383.83	26.71	18.43
24.64	91.0	976.0	396.47	26.72	18.51
24.41	92.8	974.3	411.83	26.63	18.65
24.32	93.7	972.8	425.40	26.68	18.76
24.21	93.8	971.2	439.89	26.71	18.69
24.05	94.2	969.8	452.58	26.67	18.61
23.92	94.7	968.2	467.10	26.68	18.60
23.85	94.1	966.7	480.73	26.74	18.43
23.74	93.3	965.3	493.47	26.75	18.17
23.69	93.4	964.0	505.31	26.82	18.16
23.44	93.1	962.7	517.15	26.68	17.84

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
23.34	93.3	961.3	529.92	26.71	17.80
23.32	93.3	960.0	541.79	26.80	17.80
23.20	93.9	958.5	555.50	26.81	17.82
23.08	94.3	957.1	568.31	26.82	17.79
22.87	94.6	955.7	581.14	26.73	17.64
22.73	95.1	954.1	595.81	26.73	17.61
22.65	95.3	952.8	607.74	26.77	17.59
22.61	95.4	951.3	621.52	26.86	17.59
22.54	95.3	950.1	632.56	26.90	17.52
22.50	94.4	948.6	646.38	27.00	17.33
22.41	93.5	947.1	660.22	27.04	17.09
22.41	91.2	945.5	674.99	27.19	16.69
22.37	90.9	944.1	687.94	27.27	16.62
22.11	91.2	942.5	702.75	27.15	16.44
22.06	91.6	941.0	716.65	27.24	16.49
21.88	91.7	939.7	728.71	27.17	16.34
21.82	93.0	938.2	742.64	27.25	16.54
21.86	93.2	936.9	754.74	27.41	16.65
21.83	92.3	935.3	769.64	27.53	16.48
21.73	92.3	933.9	782.70	27.55	16.40
21.70	90.6	932.4	796.71	27.66	16.09
21.78	87.5	930.9	810.74	27.88	15.63
21.77	84.0	929.2	826.67	28.03	15.01
21.78	83.5	927.9	838.86	28.16	14.95
21.70	83.8	926.5	852.01	28.21	14.95
21.60	83.8	924.8	868.00	28.26	14.88
21.56	83.7	923.3	882.13	28.36	14.85
21.50	83.7	921.7	897.22	28.45	14.82
21.36	83.9	920.3	910.45	28.44	14.75
21.27	83.8	918.7	925.58	28.50	14.68
21.24	82.8	917.3	938.84	28.60	14.49
21.19	80.3	915.6	954.96	28.71	14.03
21.13	80.1	914.1	969.20	28.79	13.96
21.05	80.0	912.6	983.47	28.85	13.90
20.89	80.0	911.1	997.75	28.82	13.78
20.77	79.3	909.6	1012.04	28.84	13.58
20.55	78.2	907.9	1028.26	28.78	13.23
20.64	77.6	906.5	1041.64	29.01	13.22
20.44	79.2	905.0	1055.99	28.94	13.35
20.47	80.0	903.5	1070.36	29.12	13.54
20.33	80.1	902.0	1084.75	29.12	13.46
20.25	80.2	900.7	1097.24	29.16	13.43
20.20	80.3	899.4	1109.74	29.23	13.42
20.13	80.4	897.7	1126.12	29.32	13.41

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
20.02	80.5	896.3	1139.62	29.34	13.35
19.86	78.6	894.9	1153.14	29.31	12.92
19.85	77.8	893.4	1167.64	29.45	12.80
19.83	78.7	892.1	1180.23	29.56	12.96
19.71	79.6	890.6	1194.77	29.58	13.03
19.64	79.7	889.3	1207.39	29.63	13.01
19.57	80.8	887.7	1222.94	29.71	13.16
19.50	80.3	886.4	1235.59	29.77	13.04
19.46	80.3	885.0	1249.24	29.86	13.02
19.34	78.1	883.7	1261.93	29.87	12.58
19.31	76.6	882.3	1275.60	29.97	12.33
19.25	76.3	880.9	1289.30	30.05	12.26
19.09	76.2	879.4	1303.99	30.03	12.14
19.10	76.0	878.2	1315.75	30.16	12.13
19.04	76.2	876.8	1329.50	30.24	12.14
18.97	75.9	875.4	1343.26	30.30	12.05
18.86	76.1	874.2	1355.08	30.31	12.02
18.78	75.5	872.9	1367.89	30.35	11.88
18.77	75.4	871.4	1382.69	30.49	11.88
18.61	76.1	870.4	1392.57	30.43	11.88
18.56	76.2	868.7	1409.38	30.54	11.88
18.52	76.0	867.4	1422.26	30.63	11.84
18.42	76.4	866.3	1433.17	30.64	11.84
18.41	74.3	864.7	1449.06	30.79	11.52
18.37	72.8	863.5	1460.99	30.87	11.27
18.35	72.7	862.3	1472.94	30.97	11.26
18.23	72.9	860.8	1487.89	30.99	11.23
18.13	72.0	859.5	1500.87	31.02	11.03
18.00	71.6	858.3	1512.86	31.01	10.89
17.95	71.6	857.0	1525.86	31.09	10.87
17.83	70.8	855.8	1537.87	31.08	10.68
17.75	69.6	854.6	1549.90	31.12	10.46
17.74	68.9	853.3	1562.94	31.24	10.36
17.73	68.0	852.1	1575.00	31.35	10.23
17.66	67.7	850.9	1587.07	31.40	10.16
17.56	67.2	849.7	1599.16	31.42	10.03
17.49	67.4	848.4	1612.26	31.48	10.03
17.46	67.5	847.3	1623.37	31.56	10.04
17.39	69.6	846.1	1635.50	31.61	10.33
17.27	69.2	844.8	1648.65	31.62	10.20
17.19	67.7	843.5	1661.82	31.67	9.94
17.18	66.8	842.7	1669.93	31.74	9.81
17.00	67.7	841.4	1683.13	31.69	9.85
17.00	67.8	840.3	1694.30	31.80	9.88

**CSI Profile: STA3RS01**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.97	68.0	839.2	1705.50	31.89	9.90
16.92	69.3	838.0	1717.72	31.96	10.07
16.84	68.4	836.9	1728.94	31.99	9.90
16.79	67.9	835.8	1740.17	32.05	9.81
16.70	67.6	834.7	1751.41	32.07	9.72
16.60	68.5	833.6	1762.66	32.08	9.80
16.44	70.6	832.4	1774.95	32.04	10.02
16.38	70.5	831.4	1785.20	32.08	9.98
16.34	69.9	830.3	1796.49	32.15	9.88
16.32	69.1	828.9	1810.87	32.28	9.77
16.27	69.0	828.0	1820.13	32.32	9.74
16.26	68.1	827.0	1830.43	32.42	9.61
16.30	68.0	825.6	1844.87	32.61	9.64
16.25	68.1	824.7	1854.16	32.65	9.63
16.24	67.6	823.4	1867.60	32.78	9.57
16.23	67.6	822.4	1877.95	32.87	9.58
16.17	66.5	821.2	1890.39	32.94	9.39
16.12	64.4	820.3	1899.73	32.98	9.07
16.16	63.7	819.1	1912.20	33.15	9.01
16.15	63.0	818.0	1923.64	33.26	8.92
16.13	61.9	817.0	1934.05	33.34	8.76
16.10	61.7	815.9	1945.52	33.43	8.73
16.04	61.3	814.8	1957.00	33.49	8.65
16.04	60.7	813.9	1966.40	33.58	8.57
15.98	60.9	812.8	1977.91	33.64	8.58
15.95	60.8	811.7	1989.43	33.72	8.56
15.84	61.1	810.7	1999.92	33.72	8.55
15.78	60.8	809.5	2012.51	33.78	8.49
15.77	61.6	808.6	2021.97	33.87	8.60
15.60	61.7	807.2	2036.69	33.84	8.54
15.54	61.5	806.3	2046.17	33.87	8.49
15.48	61.1	805.2	2057.76	33.93	8.41
15.45	60.9	803.9	2071.48	34.04	8.38
15.40	61.3	803.0	2080.99	34.09	8.42
15.36	61.8	801.8	2093.69	34.18	8.48
15.34	60.9	800.5	2107.46	34.30	8.36
15.27	60.6	799.4	2119.13	34.34	8.29
15.18	60.0	798.2	2131.88	34.38	8.17
15.08	60.1	796.9	2145.70	34.42	8.14
14.98	60.4	795.9	2156.34	34.42	8.14
14.85	60.5	794.5	2171.26	34.44	8.10
14.82	59.9	793.5	2181.93	34.51	8.01
14.65	59.9	792.3	2194.75	34.47	7.94
14.59	60.3	791.0	2208.64	34.55	7.97

### CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
14.47	60.6	789.7	2222.56	34.56	7.96
14.29	60.3	788.5	2235.42	34.50	7.84
14.30	60.7	787.2	2249.37	34.66	7.91
14.12	60.5	786.0	2262.27	34.60	7.81
14.09	60.7	784.6	2277.33	34.73	7.83
14.00	60.2	783.2	2292.41	34.79	7.74
13.93	59.8	782.1	2304.28	34.84	7.66
13.86	60.8	780.8	2318.32	34.91	7.77
13.77	60.0	779.6	2331.30	34.95	7.63
13.74	60.1	778.3	2345.38	35.06	7.64
13.62	60.4	777.0	2359.48	35.08	7.63
13.49	60.9	775.6	2374.69	35.10	7.64
13.40	61.1	774.3	2388.83	35.15	7.64
13.27	61.6	773.2	2400.80	35.13	7.64
13.08	61.2	772.0	2413.88	35.07	7.51
12.91	61.4	770.5	2430.25	35.06	7.47
12.84	61.5	769.2	2444.45	35.13	7.46
12.77	61.8	768.0	2457.57	35.19	7.47
12.79	62.0	766.8	2470.72	35.35	7.52
12.69	61.7	765.3	2487.18	35.42	7.45
12.60	61.7	764.1	2500.37	35.46	7.41
12.48	61.6	763.0	2512.47	35.45	7.35
12.35	61.7	761.6	2527.89	35.48	7.32
12.25	61.7	760.4	2541.12	35.51	7.28
12.19	61.9	759.1	2555.48	35.59	7.29
12.06	62.7	757.8	2569.86	35.60	7.33
12.02	64.4	756.5	2584.26	35.71	7.52
11.94	63.8	755.3	2597.56	35.77	7.43
11.86	63.1	754.0	2612.00	35.83	7.32
11.77	62.5	752.6	2627.57	35.90	7.22
11.75	63.3	751.3	2642.06	36.03	7.31
11.62	66.4	750.2	2654.33	36.02	7.62
11.48	67.0	748.8	2669.97	36.03	7.63
11.44	65.5	747.5	2684.51	36.14	7.45
11.33	65.7	746.4	2696.83	36.15	7.43
11.28	64.7	745.1	2711.41	36.25	7.31
11.33	60.2	744.0	2723.76	36.44	6.83
11.31	59.7	742.5	2740.64	36.59	6.77
11.24	60.3	741.3	2754.16	36.66	6.82
11.10	59.9	740.1	2767.70	36.65	6.72
10.94	60.0	738.9	2781.25	36.62	6.67
10.98	57.9	737.5	2797.08	36.83	6.47
10.79	57.4	736.4	2809.54	36.76	6.34
10.76	57.5	735.3	2822.01	36.86	6.35

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
10.69	58.2	734.0	2836.78	36.94	6.41
10.57	58.5	732.6	2852.70	36.98	6.40
10.40	58.0	731.5	2865.22	36.92	6.28
10.30	61.3	730.3	2878.90	36.96	6.61
10.25	61.4	729.1	2892.60	37.05	6.61
10.17	63.1	727.9	2906.31	37.11	6.77
10.06	61.8	726.8	2918.90	37.12	6.59
10.00	59.9	725.4	2934.95	37.23	6.37
9.89	57.8	724.3	2947.57	37.24	6.11
9.85	58.5	723.2	2960.21	37.33	6.18
9.67	65.4	722.1	2972.87	37.27	6.84
9.56	65.7	720.8	2987.84	37.31	6.83
9.54	62.4	719.8	2999.38	37.41	6.49
9.48	59.6	718.4	3015.55	37.52	6.18
9.46	57.3	717.4	3027.11	37.62	5.94
9.42	53.7	716.1	3042.17	37.74	5.56
9.42	52.3	715.0	3054.93	37.87	5.42
9.38	50.5	713.8	3068.86	37.98	5.23
9.34	50.4	712.5	3083.99	38.10	5.21
9.20	51.8	711.4	3096.80	38.08	5.31
9.08	54.4	710.3	3109.63	38.09	5.55
8.99	56.2	709.1	3123.64	38.14	5.71
8.88	55.8	708.0	3136.51	38.15	5.63
8.76	55.3	706.7	3151.73	38.19	5.55
8.73	53.8	705.6	3164.62	38.29	5.39
8.72	53.3	704.1	3182.24	38.47	5.35
8.69	52.3	703.2	3192.83	38.55	5.24
8.61	52.9	702.0	3206.96	38.61	5.28
8.56	50.7	700.7	3222.29	38.72	5.06
8.49	49.8	699.5	3236.47	38.80	4.95
8.39	53.5	698.3	3250.67	38.84	5.29
8.26	55.5	697.1	3264.88	38.85	5.45
8.21	53.3	695.9	3279.12	38.95	5.23
8.13	51.8	695.0	3289.81	38.98	5.06
8.09	55.0	693.3	3310.04	39.15	5.37
7.99	56.2	692.6	3318.38	39.13	5.46
7.88	57.2	691.4	3332.69	39.16	5.52
7.81	62.0	690.0	3349.42	39.27	5.97
7.73	65.8	688.9	3362.59	39.32	6.32
7.62	64.3	687.9	3374.58	39.33	6.14
7.55	61.8	686.8	3387.78	39.39	5.88
7.47	61.5	685.5	3403.40	39.47	5.83
7.35	61.9	684.4	3416.63	39.48	5.83
7.28	59.6	683.1	3432.30	39.57	5.59

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
7.21	56.7	682.0	3445.57	39.64	5.30
7.23	56.3	680.9	3458.86	39.81	5.28
7.20	56.5	680.0	3469.75	39.89	5.29
7.12	57.5	678.5	3487.93	40.00	5.37
7.03	56.6	677.6	3498.85	40.02	5.26
6.97	54.2	676.6	3511.00	40.08	5.02
6.99	46.8	675.4	3525.60	40.27	4.34
6.99	45.2	674.1	3541.44	40.44	4.20
6.85	54.5	673.1	3553.64	40.41	5.03
6.79	54.4	672.0	3567.09	40.49	5.01
6.80	52.8	670.8	3581.78	40.67	4.88
6.72	52.7	669.9	3592.81	40.70	4.85
6.63	54.0	668.9	3605.08	40.73	4.94
6.53	57.9	667.7	3619.83	40.78	5.28
6.42	58.2	666.8	3630.91	40.78	5.27
6.30	58.4	665.5	3646.92	40.82	5.25
6.17	58.7	664.5	3659.26	40.81	5.24
6.04	60.1	663.7	3669.14	40.77	5.33
5.94	60.5	662.5	3683.97	40.82	5.33
5.81	61.0	661.4	3697.59	40.82	5.34
5.68	60.8	660.3	3711.22	40.82	5.28
5.55	60.7	659.3	3723.63	40.81	5.23
5.43	59.6	658.0	3739.78	40.86	5.10
5.39	57.6	657.2	3749.73	40.92	4.92
5.33	55.8	656.1	3763.42	41.00	4.76
5.24	54.6	655.0	3777.14	41.05	4.63
5.17	52.6	653.9	3790.87	41.12	4.45
5.10	52.5	652.7	3805.88	41.21	4.43
5.01	54.0	651.6	3819.65	41.26	4.53
4.89	57.6	650.7	3830.93	41.25	4.80
4.78	56.6	649.6	3844.74	41.28	4.69
4.67	57.3	648.4	3859.82	41.32	4.72
4.59	57.4	647.4	3872.41	41.37	4.71
4.51	56.4	646.4	3885.01	41.41	4.61
4.43	57.4	645.6	3895.10	41.44	4.67
4.35	57.5	644.3	3911.52	41.53	4.66
4.27	59.1	643.5	3921.64	41.55	4.77
4.22	55.7	642.3	3936.84	41.66	4.49
4.17	52.9	640.8	3955.87	41.81	4.25
4.15	51.6	639.6	3971.13	41.96	4.15
4.05	54.1	638.8	3981.31	41.96	4.33
3.98	52.0	637.9	3992.78	42.01	4.14
3.96	53.2	636.8	4006.82	42.14	4.24
3.87	52.5	635.7	4020.87	42.19	4.17



CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.80	50.4	634.5	4036.23	42.28	3.99
3.72	50.9	633.8	4045.20	42.29	4.01
3.64	51.1	632.7	4059.31	42.36	4.01
3.55	50.9	631.6	4073.44	42.41	3.97
3.48	50.7	630.3	4090.17	42.52	3.95
3.44	48.1	629.2	4104.34	42.63	3.74
3.40	47.9	628.5	4113.37	42.68	3.72
3.29	48.2	627.6	4125.00	42.69	3.72
3.16	49.6	626.1	4144.40	42.76	3.80
3.07	48.8	625.1	4157.36	42.80	3.72
2.98	47.7	624.0	4171.63	42.85	3.62
2.89	51.2	623.3	4180.72	42.85	3.87
2.77	53.2	622.1	4196.32	42.89	3.99
2.67	54.3	620.9	4211.95	42.95	4.05
2.59	55.0	620.0	4223.69	42.99	4.09
2.51	52.0	619.0	4236.75	43.04	3.85
2.44	51.4	618.0	4249.83	43.11	3.79
2.39	52.3	617.1	4261.61	43.18	3.85
2.30	52.8	616.2	4273.41	43.21	3.87
2.20	53.2	615.0	4289.16	43.27	3.88
2.11	54.5	614.3	4298.36	43.27	3.95
1.99	55.5	613.1	4314.15	43.31	4.00
1.94	53.5	612.3	4324.69	43.37	3.84
1.84	51.7	611.1	4340.52	43.43	3.69
1.76	51.4	610.7	4345.80	43.40	3.65
1.63	57.2	609.6	4360.34	43.41	4.04
1.53	65.1	608.6	4373.57	43.45	4.57
1.47	59.4	607.7	4385.50	43.51	4.16
1.42	56.9	606.6	4400.10	43.62	3.97
1.36	56.7	605.5	4414.72	43.71	3.95
1.28	56.3	604.9	4422.71	43.71	3.90
1.23	55.9	603.9	4436.03	43.80	3.87
1.15	55.6	603.0	4448.03	43.85	3.83
1.08	55.8	601.9	4462.73	43.93	3.83
1.00	55.3	601.1	4473.43	43.96	3.78
0.95	53.4	600.2	4485.48	44.04	3.64
0.89	54.3	599.1	4500.23	44.13	3.69
0.85	52.5	598.3	4510.97	44.21	3.57
0.78	51.5	597.3	4524.41	44.28	3.49
0.73	52.3	596.5	4535.18	44.34	3.53
0.67	50.8	595.6	4547.31	44.41	3.42
0.63	47.1	594.7	4559.45	44.50	3.17
0.63	48.9	593.8	4571.61	44.64	3.29
0.63	43.9	592.9	4583.79	44.78	2.96

### CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
0.61	44.3	592.0	4595.99	44.89	2.99
0.53	44.9	591.4	4604.13	44.89	3.01
0.42	45.1	590.7	4613.63	44.87	3.00
0.37	44.0	589.5	4629.94	45.00	2.93
0.32	43.8	588.8	4639.47	45.05	2.91
0.26	42.9	587.6	4655.83	45.16	2.84
0.20	43.0	586.7	4668.12	45.23	2.84
0.12	43.4	585.9	4679.05	45.27	2.85
0.02	45.7	585.0	4691.37	45.29	2.99
-0.05	46.4	584.5	4698.22	45.29	3.02
-0.03	42.6	583.4	4713.30	45.48	2.78
-0.03	42.9	582.5	4725.67	45.62	2.80
-0.07	38.1	581.5	4739.43	45.73	2.49
-0.10	48.9	580.5	4753.21	45.85	3.19
-0.22	48.8	579.8	4762.87	45.82	3.16
-0.31	48.8	578.8	4776.68	45.88	3.15
-0.39	49.0	578.2	4784.98	45.88	3.15
-0.48	46.1	576.9	4802.98	45.98	2.95
-0.52	41.6	576.0	4815.47	46.07	2.65
-0.62	48.3	575.1	4827.96	46.10	3.06
-0.70	47.6	574.4	4837.70	46.12	3.01
-0.78	46.2	573.3	4853.01	46.20	2.91
-0.86	45.2	572.2	4868.35	46.28	2.83
-0.96	44.6	571.4	4879.51	46.29	2.78
-1.05	44.7	570.5	4892.09	46.33	2.77
-1.19	43.8	569.3	4908.89	46.35	2.69
-1.23	44.7	568.7	4917.29	46.40	2.74
-1.30	44.5	567.7	4931.32	46.48	2.72
-1.40	44.8	566.9	4942.56	46.49	2.72
-1.49	44.5	565.5	4962.26	46.61	2.69
-1.62	43.7	564.8	4972.12	46.57	2.62
-1.74	44.2	563.9	4984.82	46.58	2.63
-1.86	44.7	562.9	4998.94	46.60	2.64
-1.95	44.7	562.2	5008.83	46.61	2.63
-2.07	43.8	560.9	5027.24	46.68	2.56
-2.14	39.9	559.7	5044.25	46.79	2.32
-2.19	38.7	559.0	5054.19	46.85	2.25
-2.25	39.2	557.7	5072.68	46.99	2.27
-2.33	40.9	557.0	5082.66	47.01	2.36
-2.40	40.7	556.4	5091.21	47.03	2.34
-2.49	41.7	555.3	5106.92	47.10	2.38
-2.60	42.2	553.9	5126.94	47.20	2.40
-2.63	39.9	553.0	5139.84	47.31	2.27
-2.74	39.3	552.4	5148.44	47.28	2.22

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-2.79	35.8	550.9	5169.99	47.47	2.02
-2.83	32.1	550.0	5182.94	47.58	1.81
-2.82	30.7	549.0	5197.36	47.76	1.73
-2.90	30.9	548.3	5207.47	47.78	1.73
-2.98	31.2	547.1	5224.81	47.88	1.74
-3.09	32.5	545.9	5242.19	47.95	1.81
-3.16	30.4	545.1	5253.80	48.01	1.68
-3.26	30.2	544.0	5269.78	48.07	1.66
-3.39	31.4	543.2	5281.41	48.05	1.71
-3.47	30.4	542.3	5294.52	48.11	1.65
-3.52	31.1	541.7	5303.26	48.15	1.69
-3.58	32.0	539.9	5329.56	48.39	1.73
-3.66	31.7	539.4	5336.88	48.38	1.71
-3.73	33.1	537.8	5360.33	48.57	1.78
-3.80	33.1	537.1	5370.61	48.60	1.77
-3.93	33.4	536.7	5376.49	48.52	1.77
-4.02	34.2	535.3	5397.09	48.65	1.81
-4.05	33.8	533.9	5417.75	48.85	1.79
-4.08	26.2	532.9	5432.53	48.99	1.38
-4.12	25.9	532.8	5434.01	48.96	1.36
-4.19	24.1	531.2	5457.71	49.15	1.27
-4.22	21.9	530.7	5465.13	49.20	1.15
-4.30	22.2	529.5	5482.96	49.32	1.16
-4.37	25.8	528.2	5502.31	49.46	1.35
-4.47	25.7	527.2	5517.23	49.51	1.33
-4.53	33.3	525.9	5536.67	49.67	1.72
-4.75	33.6	524.4	5559.14	49.67	1.72
-4.86	33.2	523.8	5568.14	49.64	1.68
-4.97	32.9	522.6	5586.17	49.72	1.66
-5.09	28.8	521.3	5605.74	49.81	1.44
-5.17	24.3	520.9	5611.76	49.78	1.21
-5.23	22.5	519.9	5626.84	49.89	1.12
-5.36	22.2	518.9	5641.95	49.91	1.09
-5.37	21.0	518.0	5655.57	50.06	1.03
-5.44	20.9	516.9	5672.24	50.17	1.03
-5.47	20.5	516.2	5682.86	50.26	1.01
-5.47	20.4	515.3	5696.55	50.42	1.00
-5.52	22.5	514.2	5713.30	50.56	1.10
-5.58	22.3	514.1	5714.82	50.50	1.09
-5.64	21.9	512.9	5733.14	50.65	1.07
-5.69	21.4	511.9	5748.43	50.77	1.04
-5.78	23.1	511.5	5754.55	50.73	1.12
-5.87	29.3	510.4	5771.41	50.82	1.41
-6.00	29.9	509.6	5783.69	50.81	1.43

### CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-6.07	25.7	508.8	5795.98	50.87	1.22
-6.12	25.6	508.2	5805.21	50.92	1.21
-6.23	26.9	507.3	5819.08	50.95	1.27
-6.34	24.0	506.0	5839.14	51.05	1.12
-6.42	22.5	505.7	5843.77	51.01	1.05
-6.49	22.2	504.8	5857.68	51.09	1.03
-6.63	21.9	504.0	5870.07	51.07	1.01
-6.72	21.3	503.3	5880.92	51.09	0.97
-6.82	21.4	502.1	5899.54	51.19	0.97
-6.91	21.0	501.2	5913.53	51.24	0.95
-7.03	21.0	500.7	5921.31	51.19	0.94
-7.13	21.8	499.9	5933.78	51.21	0.97
-7.19	21.7	499.2	5944.69	51.27	0.96
-7.33	21.7	498.3	5958.75	51.27	0.96
-7.41	22.0	497.6	5969.69	51.30	0.96
-7.51	22.1	496.8	5982.21	51.33	0.96
-7.56	22.1	495.6	6001.02	51.49	0.96
-7.57	22.4	495.1	6008.88	51.57	0.97
-7.64	23.3	494.5	6018.31	51.60	1.01
-7.71	23.6	493.5	6034.05	51.70	1.02
-7.74	26.7	493.1	6040.35	51.74	1.15
-7.79	26.9	491.9	6059.29	51.91	1.16
-7.87	24.5	491.3	6068.78	51.92	1.05
-7.94	22.8	490.4	6083.02	52.01	0.97
-8.00	23.3	489.3	6100.46	52.14	0.99
-8.13	24.6	489.0	6105.23	52.04	1.04
-8.22	24.6	488.0	6121.11	52.12	1.03
-8.27	24.2	487.4	6130.66	52.17	1.01
-8.39	26.9	486.2	6149.78	52.25	1.12
-8.50	31.8	485.3	6164.15	52.29	1.31
-8.65	35.4	484.7	6173.74	52.22	1.45
-8.79	35.4	483.9	6186.54	52.20	1.43
-8.88	35.1	483.6	6191.34	52.15	1.41
-9.01	34.6	482.4	6210.57	52.22	1.38
-9.07	29.8	480.9	6234.66	52.44	1.19
-9.02	26.4	480.3	6244.32	52.62	1.06
-9.10	25.5	479.1	6263.67	52.75	1.02
-9.23	24.6	477.7	6286.30	52.86	0.97
-9.23	24.9	476.9	6299.26	53.02	0.99
-9.27	26.0	475.6	6320.36	53.22	1.03
-9.32	27.7	475.0	6330.11	53.28	1.10
-9.45	26.1	473.8	6349.65	53.36	1.02
-9.44	24.2	473.1	6361.07	53.51	0.95
-9.45	22.9	472.5	6370.88	53.61	0.90

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.51	21.3	471.9	6380.69	53.66	0.84
-9.55	21.0	470.4	6405.27	53.90	0.82
-9.60	21.6	470.3	6406.91	53.86	0.84
-9.61	21.9	469.0	6428.27	54.11	0.86
-9.70	20.3	468.6	6434.86	54.08	0.79
-9.72	20.1	468.1	6443.09	54.15	0.78
-9.81	20.1	466.9	6462.89	54.28	0.78
-9.92	20.3	465.7	6482.74	54.38	0.78
-9.95	20.2	465.1	6492.67	54.47	0.78
-10.07	20.4	464.2	6507.60	54.50	0.78
-10.23	20.8	463.4	6520.89	54.46	0.78
-10.29	22.8	462.4	6537.52	54.59	0.86
-10.42	26.0	461.7	6549.18	54.57	0.97
-10.52	29.0	460.9	6562.52	54.61	1.07
-10.66	28.6	459.8	6580.90	54.66	1.05
-10.71	27.5	459.0	6594.29	54.76	1.01
-10.78	27.1	457.7	6616.09	54.94	0.99
-10.88	27.7	457.5	6619.44	54.85	1.00
-11.05	27.6	456.5	6636.25	54.84	0.99
-11.04	22.9	455.0	6661.51	55.17	0.82
-11.13	22.3	454.7	6666.58	55.12	0.80
-11.37	29.5	453.3	6690.23	55.10	1.04
-11.48	30.9	452.1	6710.55	55.22	1.08
-11.56	30.8	451.3	6724.12	55.28	1.07
-11.69	30.8	451.1	6727.52	55.16	1.06
-11.83	31.1	450.0	6746.21	55.21	1.06
-11.95	31.4	448.1	6778.59	55.46	1.07
-12.22	31.3	446.6	6804.23	55.43	1.04
-12.32	31.2	445.9	6816.22	55.46	1.03
-12.48	31.3	445.0	6831.65	55.44	1.03
-12.60	31.4	444.5	6840.23	55.40	1.02
-12.79	32.3	443.5	6857.41	55.37	1.04
-12.89	33.6	442.4	6876.35	55.48	1.07
-13.11	34.5	441.7	6888.41	55.35	1.08
-13.26	35.2	441.0	6900.49	55.31	1.09
-13.43	35.3	440.1	6916.04	55.29	1.08
-13.54	32.2	438.7	6940.27	55.45	0.98
-13.59	29.6	437.4	6962.83	55.66	0.90
-13.69	29.5	436.7	6975.01	55.68	0.89
-13.74	27.4	435.2	7001.15	55.95	0.83
-13.94	26.1	433.9	7023.87	55.97	0.78
-14.06	26.2	433.3	7034.37	55.95	0.78
-14.17	26.2	431.1	7072.99	56.29	0.77
-14.27	25.8	430.3	7087.07	56.34	0.76

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-14.39	25.2	429.5	7101.18	56.36	0.73
-14.43	23.9	428.8	7113.53	56.46	0.69
-14.54	24.2	428.1	7125.91	56.48	0.70
-14.66	25.5	426.7	7150.71	56.63	0.73
-14.81	26.3	425.7	7168.47	56.66	0.74
-14.96	29.1	425.1	7179.14	56.60	0.81
-15.07	33.1	424.0	7198.72	56.71	0.92
-15.18	33.3	422.9	7218.36	56.81	0.92
-15.31	33.9	421.9	7236.24	56.87	0.93
-15.49	33.9	421.0	7252.36	56.84	0.92
-15.61	34.1	419.6	7277.49	57.00	0.92
-15.79	34.6	418.7	7293.68	56.97	0.92
-15.93	35.1	418.3	7300.88	56.88	0.92
-16.03	30.6	417.7	7311.69	56.89	0.80
-16.11	27.4	417.1	7322.52	56.92	0.71
-16.23	26.2	416.1	7340.58	57.00	0.67
-16.36	25.3	414.6	7367.74	57.17	0.65
-16.57	24.6	412.6	7404.09	57.36	0.62
-16.69	24.4	412.2	7411.38	57.29	0.61
-16.82	24.6	411.4	7425.96	57.31	0.61
-16.91	25.8	409.9	7453.38	57.54	0.64
-17.02	27.2	409.1	7468.03	57.58	0.67
-17.19	29.3	408.1	7486.38	57.59	0.71
-17.33	30.8	407.3	7501.09	57.60	0.74
-17.46	31.9	406.7	7512.13	57.57	0.76
-17.61	32.7	405.9	7526.87	57.56	0.77
-17.79	33.0	404.9	7545.32	57.56	0.77
-17.93	33.2	404.0	7561.96	57.59	0.76
-18.13	33.6	403.0	7580.48	57.57	0.76
-18.27	34.1	401.9	7600.88	57.64	0.76
-18.38	34.0	401.2	7613.89	57.67	0.76
-18.52	33.1	400.3	7630.64	57.70	0.73
-18.60	31.5	399.4	7647.42	57.81	0.69
-18.68	30.0	399.1	7653.02	57.77	0.65
-18.78	28.4	398.0	7673.59	57.90	0.62
-18.88	26.8	397.0	7692.32	58.01	0.58
-18.95	25.7	396.4	7703.58	58.06	0.55
-19.03	25.0	396.0	7711.10	58.06	0.53
-19.17	24.6	395.1	7728.02	58.09	0.52
-19.25	24.1	394.2	7744.98	58.20	0.51
-19.34	23.7	393.6	7756.30	58.23	0.49
-19.43	23.4	392.7	7773.31	58.33	0.49
-19.53	23.3	391.6	7794.15	58.46	0.48
-19.63	23.4	390.9	7807.43	58.50	0.48

CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-19.73	23.5	390.3	7818.83	58.52	0.48
-19.77	23.7	389.6	7832.15	58.63	0.48
-19.89	23.6	389.3	7837.86	58.55	0.47
-19.97	23.3	388.4	7855.02	58.66	0.47
-20.04	23.0	387.9	7864.57	58.70	0.46
-20.07	23.4	387.3	7876.04	58.80	0.47
-20.10	23.6	386.4	7893.28	58.98	0.47
-20.13	23.8	385.5	7910.56	59.17	0.47
-20.22	23.4	385.0	7920.17	59.17	0.46
-20.28	23.1	384.0	7939.43	59.34	0.46
-20.36	23.1	383.8	7943.29	59.28	0.45
-20.46	23.2	383.0	7958.73	59.35	0.45
-20.55	23.5	382.3	7972.26	59.41	0.45
-20.68	23.5	380.8	8001.33	59.61	0.45
-20.79	23.9	379.6	8024.66	59.76	0.46
-20.89	24.2	379.2	8032.45	59.73	0.46
-20.98	24.5	378.6	8044.14	59.77	0.46
-21.11	24.8	378.3	8049.99	59.67	0.46
-21.22	25.0	377.9	8057.80	59.62	0.46
-21.36	25.2	377.2	8071.47	59.62	0.46
-21.48	25.6	376.8	8079.29	59.56	0.46
-21.59	25.9	375.4	8106.72	59.77	0.47
-21.67	27.2	375.1	8112.60	59.74	0.49
-21.82	28.3	374.6	8122.42	59.67	0.50
-21.95	29.0	373.5	8144.06	59.77	0.51
-22.07	29.7	372.7	8159.83	59.82	0.52
-22.19	30.6	372.4	8165.75	59.74	0.53
-22.40	31.3	371.6	8181.54	59.66	0.53
-22.50	31.9	370.7	8199.34	59.76	0.54
-22.63	32.6	370.2	8209.25	59.72	0.54
-22.76	33.4	369.4	8225.11	59.75	0.55
-22.84	33.7	368.5	8242.99	59.88	0.55
-22.89	33.2	368.2	8248.96	59.89	0.54
-22.99	32.9	367.2	8268.89	60.01	0.53
-22.98	31.9	366.7	8278.87	60.16	0.52
-23.11	30.6	365.6	8300.87	60.27	0.49
-23.18	30.3	364.8	8316.91	60.38	0.49
-23.19	29.2	363.8	8337.00	60.63	0.47
-23.26	26.4	362.8	8357.14	60.80	0.42
-23.35	25.5	362.3	8367.23	60.81	0.41
-23.44	24.7	361.5	8383.39	60.90	0.39
-23.57	24.2	361.2	8389.46	60.81	0.38
-23.66	23.6	360.3	8407.69	60.93	0.37
-23.79	23.3	359.8	8417.83	60.89	0.36

### CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-23.91	22.9	358.6	8442.21	61.04	0.35
-24.11	22.6	357.5	8464.62	61.07	0.34
-24.20	22.5	357.2	8470.74	61.03	0.34
-24.24	22.3	357.0	8474.83	61.03	0.33
-24.32	22.1	356.1	8493.22	61.16	0.33
-24.35	21.9	355.3	8509.60	61.34	0.33
-24.38	21.8	355.0	8515.76	61.38	0.32
-24.56	21.9	354.6	8523.96	61.24	0.32
-24.67	21.9	352.7	8563.06	61.61	0.32
-24.74	21.8	352.4	8569.25	61.60	0.32
-24.82	22.0	351.0	8598.19	61.87	0.32
-25.14	21.4	348.8	8643.88	62.04	0.30
-25.22	21.4	348.1	8658.46	62.13	0.30
-25.28	21.5	347.3	8675.16	62.26	0.30
-25.47	21.7	346.6	8689.80	62.20	0.30
-25.48	21.6	345.9	8704.46	62.38	0.30
-25.51	21.6	345.7	8708.65	62.40	0.30
-25.55	21.5	344.8	8727.55	62.59	0.30
-25.61	21.4	344.3	8738.07	62.65	0.29
-25.80	21.8	341.9	8788.74	63.06	0.29
-25.83	21.7	341.1	8805.71	63.25	0.29
-25.99	22.5	341.0	8807.83	63.06	0.30
-26.03	22.7	339.2	8846.12	63.51	0.30
-26.14	22.7	338.6	8858.93	63.54	0.30
-26.23	22.6	337.8	8876.03	63.64	0.30
-26.31	22.5	337.0	8893.17	63.76	0.29
-26.47	22.6	335.6	8923.25	63.94	0.29
-26.57	22.6	334.8	8940.48	64.04	0.29
-26.76	22.7	334.4	8949.11	63.89	0.29
-26.95	23.0	334.0	8957.74	63.75	0.29
-27.03	23.2	332.5	8990.18	64.07	0.29
-27.16	23.5	331.7	9007.53	64.13	0.29
-27.29	24.3	331.4	9014.04	64.03	0.30
-27.43	25.3	330.9	9024.91	63.99	0.30
-27.71	27.1	330.0	9044.49	63.87	0.32
-27.85	28.6	328.8	9070.66	64.02	0.33
-28.03	29.6	328.2	9083.77	63.95	0.34
-28.08	31.4	327.5	9099.10	64.09	0.36
-28.28	32.9	327.0	9110.05	63.96	0.37
-28.39	33.8	325.5	9143.01	64.25	0.38
-28.65	35.0	324.6	9162.84	64.16	0.38
-28.80	35.5	324.4	9167.25	64.02	0.38
-28.99	35.8	323.5	9187.12	64.02	0.38
-28.97	36.2	322.7	9204.82	64.29	0.39



CSI Profile: STA3RS01

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-29.15	36.3	321.9	9222.56	64.28	0.38
-29.34	36.4	321.3	9235.88	64.20	0.38
-29.58	35.8	320.4	9255.90	64.13	0.36
-29.67	35.5	319.5	9275.95	64.28	0.36
-29.76	35.2	319.3	9280.42	64.22	0.35
-29.91	35.1	318.2	9305.00	64.34	0.35
-30.16	35.0	318.0	9309.48	64.06	0.34
-30.25	34.9	317.3	9325.15	64.14	0.34
-30.28	34.8	316.8	9336.37	64.25	0.33
-30.49	34.8	316.3	9347.59	64.11	0.33
-30.66	34.6	315.2	9372.34	64.21	0.32
-30.90	34.3	314.9	9379.09	63.97	0.31
-31.01	34.1	314.6	9385.85	63.91	0.31
-31.16	34.0	313.2	9417.46	64.13	0.30
-31.35	33.8	312.3	9437.84	64.14	0.30
-31.47	33.4	311.3	9460.54	64.29	0.29
-31.57	32.8	310.2	9485.58	64.49	0.28
-31.75	33.6	309.3	9506.12	64.52	0.29
-31.97	30.6	308.5	9524.42	64.46	0.26
-32.07	30.2	308.2	9531.29	64.41	0.25
-32.18	29.9	307.9	9538.16	64.35	0.25
-32.28	29.6	307.2	9554.21	64.43	0.24
-32.52	29.4	306.5	9570.29	64.32	0.23
-32.53	29.2	305.5	9593.31	64.62	0.23



# Coastal Studies Institute

Louisiana State University  
Marine Meteorology Group

Project MMS SO<sub>2</sub> Monitoring

PRE-LAUNCH OBSERVATIONS FOR FLIGHT # STA3RS02

Radiosonde  Tethersonde \_\_\_\_\_

Rawinsonde \_\_\_\_\_ Tetroom \_\_\_\_\_

Date 9-7-94 Ob Time 1255 CDT

Site Pass-A-Loutre Wildlife Camp, LA

Observer Blanchard

Barometric Pressure:	<u>1020.3</u>	mBars
Dry-Bulb Temperature:	<u>29.7</u>	degrees C
Wet-Bulb Temperature:	<u>25.4</u>	degrees C
Relative Humidity:	<u>71</u>	percent
Wind Speed:	<u>5-10 est</u>	<del>knots</del> mph m/s
Wind Direction:	<u>NNE</u>	degrees M T
Sonde Battery Voltage:	<u>8.96</u>	VDC
Actual Time of Launch:	<u>1304 CDT</u>	

Comments: (Cloud cover, type, flight description, etc.)

H.V.V. 10676 R.D.V. 77.77

5/8 cumulus humilis, congestus

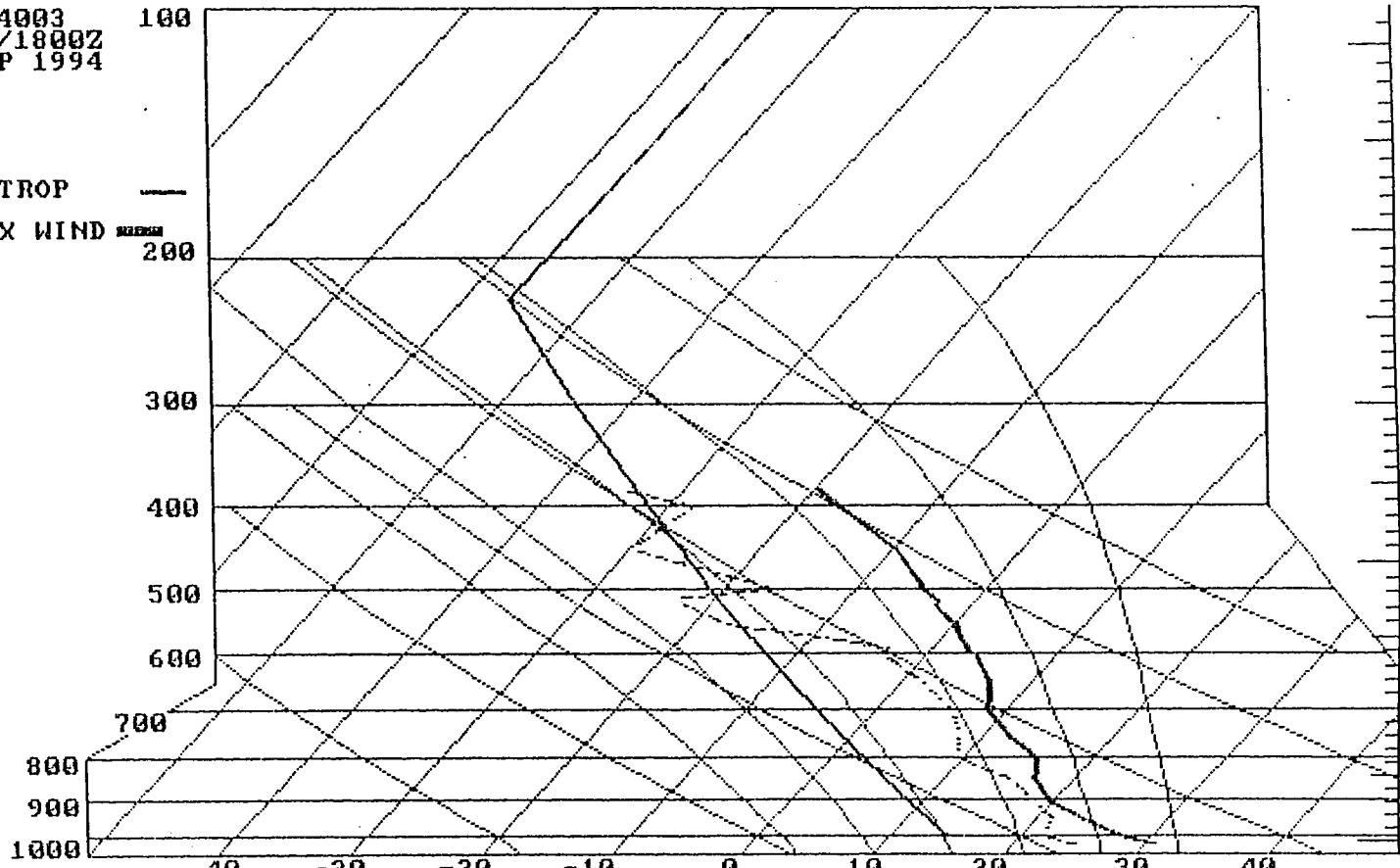
A.I.R. Barometer ~ 1011.6 mb

Launched from boat in Pass - system  
powered from boat's batteries.

Additional Comments on Back

94003  
07/1800Z  
SEP 1994

TROP  
MAX WIND



SpaceBar = Analysis  
Esc = MENU P = Printing...  
USAF SKEW T, log p DIAGRAM

Mtrs/Sec

D-243

Station Number: 94003

DTG of RAOB: 07/1800Z SEP 1994

Indices		Sfc Data: 1020mb T= 30.4°C Td= 24.4°C	Heights
SSI	= 0.9	-184ft Sfc Wind: 999/0-1kt	100mb = MISC
KO	= -10.4		150mb = MISC
K Index	= 34.3	Adiabatic Processes	200mb = MISC
Lifted Index	= -1.8	Wet Bulb Zero = 603mb -- 13668ft	250mb = MISC
Sweat Index	= Missing	LCL = 935mb 23.0°C 2198ft	300mb = MISC
Total-Totals	= 42.0	LFC = 935mb 23.0°C 2198ft	400mb = 7660M
U Totals	= 21.9	CCL = 950mb 23.2°C 1772ft	500mb = 5940M
X Totals	= 20.1	Tc = -- 29.3°C --	700mb = 3231M
Fog SI	= Missing	CCL E.L. = 950mb 23.2°C 1772ft	850mb = 1597M
Fog Threat	= 0.1	LFC E.L. = None	1000mb = 175M
Fog Point	= 21.6°C	850mb WBPT = -- 21.7°C --	

Inversion Layers	Type	Break	Freezing Levels
None			555mb 15749ft

Thickness
500-300mb = MISC
700-500mb = 2709M
850-500mb = 4343M
850-700mb = 1634M
1000-500mb = 5765M
1000-700mb = 3056M
1000-850mb = 1422M

Max Wind  
None Reported

Base	Icing Layers	Intensity	Base	Turbulence Layers	Shear
	Top			Top	
	None			None	

Trop Data  
None Reported

THREAT COLORS

Low
Moderate
High

SpaceBar = Plotted Skew-T  
Esc = MENU P = Printing...

SKEM T Analysis

(All Heights MSL)

D-244

### CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
30.44	71.5	1020.1	2.00	28.72	19.56
30.51	70.8	1019.5	7.29	28.84	19.45
29.63	69.8	1016.6	32.86	28.21	18.25
29.03	67.2	1014.7	49.60	27.77	16.97
28.60	67.8	1012.3	70.74	27.55	16.73
28.38	69.2	1009.9	91.91	27.53	16.91
28.19	69.6	1007.8	110.46	27.52	16.85
28.02	70.2	1005.8	128.16	27.52	16.86
27.82	70.8	1003.2	151.20	27.55	16.86
27.57	71.6	1000.5	175.17	27.53	16.84
27.32	72.5	997.6	200.97	27.53	16.86
27.11	72.1	995.0	224.14	27.54	16.60
26.90	72.5	992.2	249.15	27.57	16.53
26.59	73.3	989.2	275.99	27.52	16.46
26.43	73.9	987.0	295.72	27.55	16.47
26.26	74.7	984.6	317.27	27.59	16.53
25.97	75.6	981.8	342.47	27.55	16.49
25.70	76.1	979.2	365.90	27.50	16.37
25.59	76.5	977.3	383.06	27.56	16.39
25.40	77.7	975.1	402.95	27.56	16.50
25.18	78.9	972.8	423.79	27.54	16.57
24.95	80.5	969.9	450.11	27.57	16.74
24.80	81.4	967.5	471.94	27.63	16.82
24.49	81.9	964.3	501.11	27.60	16.66
24.23	83.5	961.4	527.60	27.60	16.78
23.98	84.7	958.2	556.90	27.63	16.82
23.70	86.5	955.4	582.60	27.60	16.94
23.48	87.9	952.6	608.35	27.63	17.05
23.25	86.9	949.6	636.01	27.67	16.66
22.89	88.7	947.0	660.02	27.54	16.69
22.60	88.2	944.5	683.14	27.47	16.34
22.36	89.9	941.8	708.16	27.47	16.46
22.27	89.6	940.1	723.94	27.54	16.34
22.13	89.8	938.2	741.60	27.57	16.27
22.14	90.4	936.1	761.16	27.77	16.43
21.91	91.1	933.9	781.69	27.74	16.37
21.73	91.7	932.3	796.64	27.70	16.32
21.60	92.4	930.5	813.48	27.74	16.35
21.51	92.6	929.2	825.66	27.76	16.32
21.32	93.5	926.8	848.17	27.79	16.33
21.13	93.9	925.0	865.09	27.77	16.24
20.98	93.8	923.0	883.91	27.80	16.10
20.91	94.0	921.1	901.82	27.90	16.10
20.57	94.6	918.7	924.48	27.78	15.90

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
20.45	94.7	917.0	940.55	27.82	15.83
20.45	94.6	915.2	957.60	27.99	15.84
20.32	94.5	913.4	974.68	28.02	15.73
20.22	94.7	911.7	990.83	28.08	15.69
20.05	94.7	910.0	1007.00	28.07	15.56
19.93	94.6	908.3	1023.20	28.10	15.45
19.82	94.4	906.4	1041.32	28.17	15.34
19.66	94.5	904.8	1056.61	28.16	15.23
19.52	94.5	902.9	1074.79	28.20	15.13
19.33	94.6	901.1	1092.03	28.17	14.99
19.20	94.2	899.4	1108.34	28.20	14.83
19.20	94.0	897.8	1123.71	28.35	14.83
19.14	93.8	896.1	1140.07	28.46	14.77
19.07	93.8	894.4	1156.46	28.55	14.73
18.93	93.9	892.5	1174.81	28.59	14.65
18.93	93.9	891.0	1189.32	28.73	14.67
18.78	93.9	889.3	1205.79	28.74	14.56
18.71	93.9	888.0	1218.39	28.80	14.52
18.55	94.0	886.3	1234.90	28.80	14.41
18.51	93.9	885.0	1247.54	28.88	14.38
18.45	93.6	883.4	1263.12	28.97	14.31
18.38	93.5	882.0	1276.78	29.04	14.25
18.33	93.1	880.5	1291.42	29.13	14.17
18.41	92.8	879.0	1306.10	29.37	14.22
18.40	92.1	877.5	1320.80	29.50	14.13
18.44	90.5	876.1	1334.54	29.68	13.93
18.37	90.0	874.7	1348.30	29.75	13.81
18.42	88.7	873.4	1361.10	29.93	13.68
18.37	88.5	872.0	1374.90	30.02	13.62
18.22	88.3	870.4	1390.70	30.02	13.49
18.21	87.3	869.1	1403.55	30.14	13.34
18.30	85.8	867.6	1418.40	30.38	13.21
18.15	86.2	866.2	1432.29	30.37	13.16
17.80	86.4	864.2	1452.14	30.20	12.93
17.75	88.4	862.5	1469.04	30.32	13.22
17.57	88.8	860.7	1486.96	30.31	13.16
17.45	89.6	859.1	1502.92	30.35	13.20
17.45	89.9	858.1	1512.91	30.45	13.26
17.30	90.2	856.4	1529.91	30.47	13.21
17.14	90.1	854.7	1546.93	30.47	13.08
17.05	88.6	853.0	1563.98	30.55	12.81
16.97	89.0	851.4	1580.05	30.63	12.83
16.85	89.1	849.7	1597.15	30.68	12.77
16.83	87.0	848.3	1611.25	30.80	12.47

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
16.73	87.2	846.4	1630.42	30.89	12.45
16.48	87.5	844.7	1647.60	30.80	12.31
16.47	87.9	843.0	1664.81	30.97	12.39
16.33	88.4	841.7	1677.99	30.96	12.37
16.38	87.7	840.1	1694.23	31.17	12.33
16.40	85.7	838.8	1707.45	31.33	12.08
16.43	84.4	837.1	1724.77	31.54	11.94
16.39	81.4	835.8	1738.04	31.63	11.50
16.71	78.8	834.4	1752.35	32.11	11.38
16.71	75.9	833.2	1764.65	32.24	10.97
16.76	74.4	832.1	1775.93	32.41	10.79
16.79	73.9	830.9	1788.26	32.57	10.76
16.75	73.0	829.6	1801.63	32.66	10.61
16.72	72.9	828.3	1815.02	32.77	10.59
16.66	72.4	827.2	1826.37	32.82	10.49
16.62	72.1	826.1	1837.73	32.89	10.44
16.58	71.4	824.8	1851.17	32.99	10.32
16.54	71.0	823.7	1862.56	33.06	10.25
16.50	71.4	822.6	1873.96	33.14	10.30
16.51	70.5	821.4	1886.41	33.28	10.19
16.43	69.4	820.4	1896.80	33.30	9.99
16.46	67.2	819.0	1911.37	33.48	9.70
16.48	66.6	817.8	1923.87	33.63	9.64
16.47	66.3	816.8	1934.30	33.73	9.60
16.43	66.3	815.7	1945.79	33.80	9.59
16.35	66.1	814.6	1957.30	33.84	9.52
16.28	66.1	813.6	1967.77	33.87	9.49
16.22	66.1	812.4	1980.34	33.94	9.47
16.11	66.1	811.4	1990.83	33.93	9.42
16.07	66.1	810.3	2002.38	34.00	9.40
16.03	65.9	809.1	2015.00	34.09	9.36
15.91	65.9	807.8	2028.68	34.11	9.31
15.83	65.7	806.8	2039.22	34.13	9.24
15.72	65.4	805.5	2052.94	34.15	9.15
15.66	65.8	804.4	2064.56	34.21	9.18
15.66	66.0	803.2	2077.25	34.34	9.23
15.59	66.1	802.1	2088.90	34.39	9.21
15.44	66.0	801.0	2100.56	34.35	9.12
15.39	65.7	799.9	2112.23	34.42	9.06
15.27	65.8	798.8	2123.91	34.41	9.02
15.22	66.9	797.5	2137.74	34.50	9.15
15.11	69.7	796.5	2148.39	34.49	9.49
15.06	71.4	795.4	2160.11	34.56	9.70
15.03	68.9	794.0	2175.06	34.68	9.36

### CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
14.96	68.8	792.6	2190.03	34.76	9.32
14.86	69.1	790.8	2209.31	34.86	9.32
14.66	69.3	789.0	2228.62	34.84	9.25
14.38	69.7	787.0	2250.11	34.77	9.16
14.33	70.1	785.3	2268.41	34.90	9.20
14.30	70.5	784.3	2279.19	34.98	9.25
14.28	70.8	783.2	2291.07	35.09	9.29
14.30	71.4	782.1	2302.96	35.23	9.39
14.32	71.7	781.1	2313.79	35.37	9.46
14.25	72.0	779.9	2326.80	35.43	9.47
14.16	72.5	779.0	2336.56	35.43	9.49
14.09	72.7	777.8	2349.60	35.49	9.49
14.02	72.7	776.8	2360.48	35.53	9.46
13.97	73.1	775.8	2371.37	35.59	9.49
13.85	73.3	774.8	2382.27	35.58	9.45
13.79	73.5	773.7	2394.27	35.64	9.46
13.77	73.4	772.6	2406.29	35.74	9.44
13.70	73.4	771.4	2419.42	35.80	9.42
13.65	73.6	770.4	2430.37	35.86	9.42
13.52	74.0	769.2	2443.53	35.86	9.41
13.35	74.1	767.9	2457.80	35.83	9.33
13.29	74.5	766.6	2472.09	35.91	9.36
13.12	74.5	765.6	2483.09	35.84	9.27
13.05	74.6	764.4	2496.31	35.91	9.25
12.98	74.7	763.4	2507.33	35.95	9.24
12.83	75.0	762.0	2522.79	35.95	9.20
12.70	75.6	760.9	2534.95	35.94	9.21
12.56	75.5	759.4	2551.54	35.96	9.13
12.40	75.4	758.3	2563.73	35.91	9.03
12.36	75.9	757.3	2574.82	35.99	9.08
12.26	76.2	756.3	2585.92	36.00	9.07
12.18	75.9	755.2	2598.15	36.04	9.00
12.03	76.2	754.0	2611.50	36.02	8.96
11.97	76.8	753.0	2622.63	36.07	9.01
11.86	77.3	752.1	2632.67	36.05	9.01
11.77	77.5	751.1	2643.83	36.07	8.99
11.65	77.8	750.1	2655.00	36.06	8.97
11.58	78.1	749.2	2665.06	36.09	8.97
11.51	78.1	748.2	2676.25	36.13	8.94
11.44	77.6	747.2	2687.45	36.18	8.85
11.42	78.3	746.2	2698.67	36.27	8.93
11.37	79.5	745.2	2709.90	36.34	9.05
11.29	78.6	744.1	2722.27	36.38	8.92
11.21	78.5	743.2	2732.40	36.40	8.87



CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
11.13	78.8	742.2	2743.66	36.43	8.87
10.98	79.0	741.2	2754.94	36.39	8.81
10.90	79.5	740.2	2766.22	36.42	8.83
10.83	81.1	739.0	2779.79	36.49	8.99
10.75	82.5	738.1	2789.97	36.51	9.10
10.70	82.5	737.2	2800.16	36.56	9.09
10.56	82.6	736.2	2811.50	36.53	9.02
10.49	82.6	735.4	2820.58	36.55	8.99
10.52	82.8	734.7	2828.53	36.67	9.04
10.40	82.9	733.5	2842.17	36.68	8.99
10.38	83.7	732.5	2853.56	36.78	9.08
10.32	84.3	731.5	2864.96	36.84	9.12
10.23	84.5	730.7	2874.09	36.83	9.10
10.16	83.5	729.7	2885.51	36.88	8.96
10.11	83.4	728.7	2896.94	36.95	8.93
10.15	84.0	727.4	2911.83	37.15	9.04
10.17	83.7	726.9	2917.56	37.23	9.02
10.08	83.5	725.7	2931.33	37.28	8.96
10.00	84.0	724.8	2941.68	37.30	8.98
9.96	84.2	723.9	2952.03	37.37	8.99
9.92	84.4	722.8	2964.70	37.46	9.00
9.79	84.4	721.9	2975.08	37.43	8.93
9.83	84.0	720.9	2986.62	37.59	8.92
9.80	84.3	720.0	2997.02	37.67	8.95
9.73	85.0	719.1	3007.44	37.71	8.99
9.65	85.9	718.4	3015.54	37.71	9.05
9.57	85.9	717.4	3027.14	37.74	9.01
9.51	86.5	716.0	3043.39	37.85	9.06
9.33	87.3	715.1	3053.85	37.76	9.04
9.29	87.3	714.2	3064.32	37.83	9.03
9.23	87.5	713.6	3071.30	37.84	9.02
9.19	86.4	711.8	3092.29	38.02	8.90
9.20	83.7	711.1	3100.47	38.12	8.64
9.00	83.4	708.5	3130.89	38.22	8.52
8.94	83.2	707.1	3147.31	38.33	8.48
8.81	82.8	706.2	3157.87	38.30	8.38
8.70	82.6	704.7	3175.51	38.37	8.31
8.52	83.8	703.8	3186.10	38.29	8.34
8.53	84.0	702.8	3197.88	38.42	8.38
8.33	84.1	701.2	3216.76	38.41	8.29
8.29	83.9	700.0	3230.95	38.51	8.26
8.21	82.7	698.7	3246.33	38.59	8.11
8.15	82.5	697.4	3261.75	38.69	8.08
8.02	82.6	696.5	3272.43	38.66	8.02

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
7.94	82.7	694.5	3296.21	38.83	8.01
7.76	82.8	694.3	3298.59	38.66	7.93
7.73	83.0	692.7	3317.65	38.83	7.95
7.76	82.4	691.3	3334.36	39.04	7.92
7.74	82.6	690.1	3348.72	39.18	7.95
7.59	82.6	688.9	3363.09	39.16	7.88
7.46	81.4	687.5	3379.88	39.20	7.71
7.21	81.6	686.4	3393.09	39.07	7.61
7.13	82.9	684.9	3411.13	39.17	7.70
6.96	81.7	684.3	3418.35	39.06	7.51
6.94	80.3	682.0	3446.08	39.34	7.39
6.96	78.6	680.7	3461.79	39.53	7.26
6.98	76.3	679.6	3475.11	39.70	7.06
7.02	74.0	678.3	3490.88	39.92	6.88
7.07	72.7	677.1	3505.46	40.13	6.80
7.01	71.9	676.0	3518.85	40.21	6.70
6.93	72.9	674.7	3534.70	40.29	6.77
6.86	73.8	673.6	3548.13	40.36	6.84
6.89	78.4	672.5	3561.58	40.54	7.29
7.04	75.3	671.1	3578.74	40.89	7.09
7.13	78.1	670.1	3591.03	41.13	7.41
7.23	77.3	668.7	3608.27	41.43	7.40
7.38	74.4	667.6	3621.84	41.75	7.21
7.46	73.0	666.3	3637.92	42.01	7.13
7.49	71.9	665.8	3644.11	42.11	7.04
7.57	69.6	664.3	3662.72	42.41	6.86
7.56	68.3	663.0	3678.89	42.57	6.74
7.43	67.9	661.8	3693.83	42.59	6.65
7.37	67.6	661.0	3703.80	42.63	6.60
7.32	67.7	659.2	3726.28	42.82	6.61
7.27	67.8	658.3	3737.54	42.89	6.61
7.19	67.8	657.4	3748.81	42.92	6.58
7.13	67.7	656.4	3761.35	42.99	6.55
7.03	67.7	655.0	3778.94	43.07	6.52
6.97	67.9	653.9	3792.78	43.16	6.52
6.83	68.2	653.0	3804.11	43.12	6.50
6.78	68.3	651.8	3819.24	43.23	6.50
6.74	68.6	650.7	3833.14	43.34	6.52
6.63	68.8	650.0	3841.99	43.31	6.50
6.52	69.2	648.8	3857.18	43.36	6.50
6.41	69.4	647.6	3872.39	43.40	6.48
6.31	70.0	646.5	3886.35	43.44	6.50
6.19	70.3	645.5	3899.06	43.44	6.48
6.13	70.6	644.3	3914.34	43.54	6.50

**CSI Profile: STA3RS02**

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
5.99	70.8	643.3	3927.08	43.53	6.46
5.89	71.2	642.3	3939.84	43.55	6.46
5.83	71.7	641.5	3950.06	43.60	6.49
5.70	71.8	640.4	3964.13	43.61	6.45
5.66	71.9	639.8	3971.81	43.65	6.45
5.57	71.9	638.8	3984.62	43.69	6.42
5.47	72.0	637.8	3997.45	43.71	6.39
5.42	72.2	636.9	4009.01	43.78	6.40
5.39	71.5	636.0	4020.58	43.88	6.33
5.40	71.2	635.2	4030.89	44.00	6.32
5.35	71.4	634.3	4042.49	44.08	6.32
5.26	71.2	633.5	4052.82	44.09	6.27
5.15	70.8	632.7	4063.15	44.08	6.20
5.11	70.5	631.3	4081.26	44.23	6.17
5.06	70.4	631.0	4085.15	44.22	6.14
5.00	70.2	630.5	4091.63	44.22	6.10
4.87	70.2	628.9	4112.39	44.30	6.06
4.77	70.5	627.6	4129.29	44.38	6.06
4.69	70.6	627.2	4134.49	44.34	6.03
4.86	68.6	627.0	4137.09	44.57	5.93
4.91	68.3	625.2	4160.58	44.89	5.95
4.86	67.9	624.3	4172.34	44.96	5.90
4.77	68.6	623.5	4182.81	44.97	5.93
4.70	69.1	622.7	4193.29	45.01	5.95
4.62	69.1	622.2	4199.85	44.99	5.92
4.53	69.0	621.2	4212.97	45.04	5.89
4.49	68.2	620.3	4224.80	45.12	5.81
4.49	68.0	619.5	4235.32	45.24	5.80
4.40	67.8	618.6	4247.18	45.27	5.75
4.32	67.2	617.6	4260.37	45.32	5.68
4.33	67.2	617.0	4268.29	45.42	5.69
4.28	67.2	616.2	4278.86	45.48	5.68
4.22	67.4	615.0	4294.75	45.59	5.68
4.05	67.5	614.4	4302.70	45.49	5.63
4.00	67.4	613.6	4313.30	45.55	5.61
3.83	67.5	612.7	4325.25	45.49	5.56
3.79	67.1	611.7	4338.53	45.59	5.52
3.58	67.2	611.4	4342.52	45.39	5.44
3.47	67.3	609.8	4363.81	45.50	5.42
3.40	67.3	609.1	4373.14	45.53	5.40
3.35	67.0	608.6	4379.81	45.55	5.36
3.24	67.1	607.8	4390.49	45.54	5.34
3.24	67.1	606.9	4402.52	45.67	5.35
3.30	66.8	606.0	4414.57	45.88	5.35

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
3.26	66.9	605.0	4427.97	45.98	5.35
3.36	66.1	604.3	4437.37	46.20	5.33
3.36	65.2	603.2	4452.17	46.37	5.27
3.31	64.3	602.3	4464.29	46.45	5.19
3.39	62.3	600.7	4485.89	46.79	5.07
3.36	61.0	599.9	4496.71	46.87	4.96
3.41	61.2	599.0	4508.90	47.07	5.00
3.23	61.2	598.1	4521.10	47.00	4.94
3.20	62.1	596.6	4541.48	47.19	5.02
3.05	62.9	595.3	4559.17	47.22	5.04
2.87	63.3	594.5	4570.07	47.13	5.01
2.82	63.9	593.6	4582.35	47.21	5.05
2.67	64.0	592.5	4597.38	47.21	5.01
2.58	64.7	591.7	4608.32	47.23	5.04
2.48	65.5	590.6	4623.38	47.28	5.08
2.37	65.5	590.3	4627.49	47.20	5.04
2.41	64.0	589.1	4643.95	47.43	4.95
2.50	60.4	588.1	4657.70	47.69	4.71
2.48	60.0	587.4	4667.33	47.78	4.67
2.45	59.7	586.5	4679.74	47.89	4.65
2.37	58.8	585.4	4694.92	47.97	4.56
2.30	57.5	584.7	4704.60	47.99	4.44
2.22	56.4	583.4	4722.59	48.11	4.34
2.17	55.0	582.3	4737.84	48.22	4.22
2.04	54.2	581.1	4754.51	48.26	4.13
1.98	54.5	580.5	4762.85	48.28	4.14
1.82	53.8	579.4	4778.16	48.27	4.05
1.73	52.7	578.5	4790.70	48.31	3.95
1.70	50.6	577.7	4801.86	48.40	3.79
1.61	49.6	576.7	4815.83	48.45	3.69
1.52	49.5	575.8	4828.41	48.49	3.67
1.29	49.0	573.9	4855.03	48.53	3.58
1.14	49.0	572.8	4870.48	48.53	3.55
1.10	48.9	571.6	4887.35	48.67	3.54
1.07	48.4	571.2	4892.98	48.70	3.50
0.91	47.8	570.3	4905.66	48.66	3.42
0.83	46.9	569.4	4918.36	48.71	3.34
0.80	45.2	568.5	4931.07	48.82	3.22
0.85	41.4	567.2	4949.46	49.09	2.96
0.85	39.0	566.8	4955.13	49.16	2.79
0.79	35.6	565.8	4969.31	49.25	2.54
0.78	35.2	565.2	4977.83	49.34	2.51
0.74	34.9	564.1	4993.48	49.47	2.49
0.75	34.5	563.3	5004.87	49.61	2.47

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
0.74	34.0	562.4	5017.71	49.75	2.43
0.70	34.3	561.5	5030.57	49.85	2.45
0.69	31.3	560.7	5042.02	49.97	2.24
0.70	29.5	560.0	5052.04	50.09	2.11
0.63	28.1	558.8	5069.26	50.21	2.01
0.58	27.2	558.4	5075.00	50.22	1.94
0.49	26.8	556.9	5096.58	50.36	1.90
0.37	26.4	556.3	5105.22	50.32	1.86
0.23	25.4	555.4	5118.19	50.30	1.77
0.12	25.3	554.3	5134.07	50.35	1.75
-0.09	25.4	553.5	5145.63	50.24	1.74
-0.14	25.8	552.7	5157.21	50.31	1.76
-0.23	26.0	551.8	5170.24	50.36	1.77
-0.37	26.1	550.8	5184.75	50.36	1.76
-0.39	24.7	549.9	5197.82	50.49	1.66
-0.50	24.1	549.7	5200.72	50.39	1.61
-0.61	23.7	548.5	5218.18	50.46	1.57
-0.69	23.6	547.5	5232.75	50.54	1.56
-0.79	24.1	546.8	5242.96	50.54	1.58
-1.06	27.8	544.2	5280.98	50.66	1.80
-1.22	32.1	543.4	5292.71	50.60	2.06
-1.39	39.6	542.9	5300.04	50.49	2.51
-1.48	45.9	541.8	5316.20	50.57	2.90
-1.70	50.5	540.8	5330.91	50.47	3.15
-1.82	50.5	540.3	5338.27	50.42	3.12
-1.96	50.5	538.4	5366.30	50.58	3.10
-2.02	56.8	537.3	5382.56	50.69	3.48
-2.15	49.6	536.9	5388.49	50.61	3.01
-2.08	34.3	536.2	5398.85	50.81	2.09
-2.15	28.2	535.3	5412.19	50.88	1.71
-2.15	24.8	534.0	5431.50	51.11	1.51
-2.16	23.6	533.4	5440.43	51.20	1.44
-2.15	21.0	532.5	5453.84	51.37	1.28
-2.21	21.0	531.7	5465.77	51.44	1.28
-2.28	22.1	530.8	5479.21	51.51	1.34
-2.33	21.7	530.1	5489.69	51.57	1.31
-2.38	22.2	528.9	5507.66	51.72	1.34
-2.44	22.2	528.0	5521.17	51.81	1.34
-2.62	22.4	527.4	5530.19	51.70	1.33
-2.67	22.6	526.5	5543.72	51.80	1.34
-2.83	21.7	524.6	5572.36	51.94	1.28
-2.92	21.3	524.3	5576.89	51.89	1.25
-3.06	20.8	523.0	5596.54	51.95	1.21
-3.10	20.8	522.0	5611.68	52.08	1.21

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-3.18	20.3	521.4	5620.77	52.09	1.17
-3.23	20.4	520.5	5634.43	52.19	1.18
-3.26	20.2	519.5	5649.64	52.33	1.16
-3.26	20.0	519.4	5651.16	52.35	1.15
-3.16	19.9	517.5	5680.14	52.81	1.16
-3.18	20.0	516.7	5692.37	52.93	1.17
-3.28	20.0	516.3	5698.50	52.89	1.16
-3.37	20.3	515.4	5712.29	52.94	1.17
-3.47	20.4	514.6	5724.56	52.96	1.17
-3.55	20.7	513.5	5741.46	53.07	1.18
-3.76	23.6	512.6	5755.31	52.98	1.33
-3.83	25.4	511.8	5767.64	53.04	1.42
-3.95	25.9	511.0	5779.98	53.04	1.44
-4.06	26.8	509.9	5796.97	53.10	1.48
-4.16	28.0	509.2	5807.80	53.11	1.54
-4.22	34.2	508.0	5826.39	53.26	1.88
-4.22	41.0	507.7	5831.05	53.31	2.25
-4.40	45.3	506.7	5846.59	53.28	2.46
-4.44	45.8	506.2	5854.37	53.32	2.48
-4.56	46.3	505.3	5868.38	53.34	2.49
-4.63	48.3	503.5	5896.48	53.59	2.60
-4.93	50.8	502.7	5908.99	53.38	2.67
-5.04	51.6	502.1	5918.38	53.35	2.70
-5.02	45.5	501.9	5921.51	53.41	2.38
-5.16	43.2	501.0	5935.61	53.41	2.24
-5.29	42.0	497.6	5989.09	53.89	2.17
-5.42	41.8	497.0	5998.56	53.84	2.14
-5.63	41.4	495.7	6019.11	53.83	2.09
-5.75	41.4	495.3	6025.43	53.76	2.08
-5.85	40.9	494.7	6034.93	53.75	2.04
-5.87	38.3	494.1	6044.44	53.84	1.91
-5.92	36.6	493.2	6058.72	53.95	1.82
-5.99	36.5	491.9	6079.38	54.11	1.81
-6.02	36.4	491.8	6080.97	54.09	1.80
-6.16	36.4	491.1	6092.12	54.06	1.78
-6.31	36.2	490.3	6104.87	54.02	1.76
-6.39	36.2	489.7	6114.45	54.04	1.75
-6.56	36.1	488.4	6135.22	54.08	1.72
-6.65	36.3	487.3	6152.83	54.18	1.73
-6.73	36.0	487.0	6157.64	54.14	1.70
-6.83	35.6	486.2	6170.47	54.17	1.67
-6.90	36.4	485.3	6184.93	54.26	1.70
-7.00	39.9	484.6	6196.19	54.27	1.86
-7.06	46.3	484.1	6204.24	54.29	2.15

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-7.15	49.4	483.1	6220.36	54.38	2.28
-7.23	49.5	482.8	6225.21	54.34	2.27
-7.30	49.4	481.8	6241.36	54.44	2.26
-7.43	47.3	480.9	6255.93	54.46	2.15
-7.41	42.4	480.6	6260.79	54.54	1.93
-7.45	37.7	479.9	6272.14	54.63	1.71
-7.44	37.1	479.3	6281.88	54.76	1.69
-7.40	37.2	478.5	6294.89	54.97	1.70
-7.43	37.8	477.7	6307.92	55.09	1.73
-7.45	37.5	476.6	6325.87	55.28	1.71
-7.41	35.6	476.4	6329.14	55.37	1.63
-7.22	33.1	475.6	6342.23	55.76	1.54
-7.26	24.0	475.1	6350.42	55.81	1.11
-7.32	20.4	473.8	6371.76	55.99	0.95
-7.42	20.1	473.1	6383.27	56.01	0.93
-7.48	19.9	472.8	6388.20	55.99	0.91
-7.47	19.2	472.2	6398.08	56.13	0.88
-7.54	18.3	471.8	6404.68	56.12	0.84
-7.61	18.5	471.3	6412.92	56.13	0.84
-7.63	18.3	470.3	6429.44	56.31	0.83
-7.77	32.5	469.6	6441.02	56.27	1.47
-7.82	32.9	469.0	6450.96	56.33	1.48
-7.92	29.9	468.4	6460.91	56.33	1.34
-8.00	25.5	467.5	6475.85	56.41	1.14
-8.07	29.1	466.7	6489.15	56.48	1.29
-8.11	39.2	466.1	6499.14	56.56	1.74
-8.02	28.1	465.0	6517.50	56.89	1.26
-8.01	22.7	464.0	6534.22	57.11	1.02
-8.01	18.1	463.1	6549.29	57.29	0.81
-8.00	17.5	462.8	6554.32	57.36	0.79
-8.04	17.5	462.0	6567.76	57.48	0.79
-8.14	17.1	461.3	6579.53	57.50	0.76
-8.24	17.0	460.5	6593.00	57.54	0.75
-8.33	17.0	460.1	6599.74	57.50	0.75
-8.37	16.9	459.1	6616.61	57.66	0.74
-8.46	17.0	458.5	6626.75	57.67	0.74
-8.53	17.0	457.7	6640.28	57.75	0.74
-8.62	17.0	457.0	6652.14	57.78	0.74
-8.86	17.0	456.4	6662.32	57.61	0.73
-9.02	17.0	455.9	6670.80	57.51	0.72
-9.18	17.1	455.1	6684.38	57.48	0.71
-9.23	17.1	454.2	6699.68	57.60	0.71
-9.26	17.1	453.5	6711.60	57.71	0.71
-9.39	17.1	452.7	6725.24	57.71	0.71

CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-9.52	17.1	452.4	6730.36	57.61	0.70
-9.59	17.1	451.7	6742.31	57.67	0.70
-9.76	17.1	450.8	6757.70	57.65	0.69
-9.87	17.1	449.9	6773.11	57.70	0.68
-10.01	17.1	449.3	6783.40	57.65	0.68
-10.10	17.1	448.6	6795.41	57.68	0.67
-10.22	17.1	447.9	6807.44	57.68	0.67
-10.30	17.1	447.5	6814.32	57.66	0.66
-10.41	17.0	446.6	6829.81	57.71	0.66
-10.49	17.0	445.8	6843.60	57.78	0.65
-10.57	16.9	445.2	6853.96	57.81	0.65
-10.49	17.1	444.9	6859.14	57.97	0.66
-10.49	17.2	444.1	6872.99	58.14	0.66
-10.57	17.3	443.1	6890.32	58.26	0.66
-10.65	17.4	442.5	6900.74	58.28	0.66
-10.73	17.4	442.0	6909.43	58.29	0.66
-10.83	17.4	441.2	6923.35	58.34	0.66
-10.86	17.3	441.1	6925.09	58.32	0.65
-10.87	17.4	440.0	6944.27	58.54	0.66
-10.97	17.5	439.3	6956.49	58.57	0.66
-11.09	17.5	438.0	6979.24	58.70	0.65
-11.21	17.5	437.7	6984.50	58.61	0.65
-11.29	17.6	437.4	6989.76	58.57	0.65
-11.45	17.5	436.2	7010.82	58.63	0.64
-11.58	17.6	435.6	7021.36	58.60	0.63
-11.58	17.6	435.2	7028.40	58.69	0.63
-11.75	17.6	434.3	7044.25	58.67	0.63
-11.79	17.7	433.6	7056.60	58.77	0.63
-11.99	17.7	431.9	7086.65	58.89	0.62
-12.07	17.7	431.5	7093.74	58.87	0.62
-12.18	17.2	430.7	7107.92	58.91	0.60
-12.37	17.2	429.9	7122.12	58.84	0.59
-12.40	17.2	429.6	7127.45	58.87	0.59
-12.49	17.2	428.1	7154.16	59.09	0.59
-12.56	17.2	427.8	7159.51	59.07	0.58
-12.75	17.2	427.1	7172.00	58.98	0.57
-12.95	17.2	426.2	7188.08	58.93	0.57
-12.97	17.2	425.5	7200.60	59.06	0.57
-13.12	17.2	424.5	7218.52	59.09	0.56
-13.26	17.3	423.7	7232.88	59.09	0.56
-13.45	17.3	423.2	7241.86	58.96	0.55
-13.49	19.9	422.6	7252.65	59.04	0.63
-13.57	17.5	421.8	7267.06	59.12	0.55
-13.75	17.5	420.8	7285.09	59.11	0.55



CSI Profile: STA3RS02

Tdry Deg. C	Rel. Hum. %	Press. mb	Height m	Potential Temp. Deg. C	Mixing Ratio g/kg
-13.88	17.6	420.1	7297.73	59.11	0.54
-14.06	17.8	419.7	7304.96	58.97	0.54
-14.06	18.0	418.7	7323.06	59.19	0.55
-14.17	18.1	417.6	7343.02	59.30	0.55
-14.30	18.2	417.0	7353.92	59.27	0.55
-14.21	18.4	416.7	7359.37	59.46	0.56
-14.85	18.6	413.4	7419.58	59.39	0.54
-14.94	18.5	412.6	7434.23	59.46	0.53
-15.40	19.9	410.5	7472.78	59.35	0.56
-15.51	20.8	410.1	7480.13	59.30	0.58
-15.62	20.7	409.9	7483.81	59.20	0.57
-15.70	20.5	409.2	7496.70	59.26	0.56
-15.78	19.9	408.3	7513.30	59.37	0.54
-15.72	19.2	407.8	7522.53	59.56	0.53
-15.82	20.6	406.8	7541.04	59.67	0.56
-15.94	21.3	406.1	7554.01	59.68	0.58
-15.96	21.6	405.2	7570.72	59.86	0.58
-16.18	21.9	405.0	7574.44	59.62	0.58
-16.39	23.1	404.0	7593.03	59.59	0.60
-16.56	27.4	403.3	7606.07	59.53	0.71
-16.67	32.3	402.8	7615.39	59.51	0.83
-16.76	34.4	402.1	7628.45	59.56	0.88
-16.85	35.6	401.0	7649.02	59.70	0.90
-16.98	36.7	400.6	7656.51	59.63	0.92
-17.07	38.0	400.3	7662.13	59.58	0.95
-17.15	40.5	399.2	7682.76	59.74	1.01
-17.25	39.3	399.0	7686.52	59.66	0.97
-17.31	38.4	397.6	7712.86	59.91	0.94
-17.46	38.2	397.2	7720.40	59.81	0.93
-17.54	38.0	396.8	7727.94	59.81	0.92
-17.59	38.0	396.1	7741.16	59.91	0.92
-17.77	37.9	395.9	7744.94	59.72	0.90
-17.84	37.9	394.5	7771.43	59.97	0.90
-17.92	37.5	393.7	7786.61	60.06	0.88
-18.02	36.3	393.0	7799.91	60.10	0.85
-18.11	34.3	391.8	7822.75	60.27	0.80
-18.13	31.1	391.3	7832.29	60.37	0.72
-18.20	28.2	390.4	7849.49	60.49	0.65
-18.32	27.3	389.6	7864.80	60.53	0.63
-18.49	26.6	388.9	7878.21	60.48	0.60
-18.65	23.9	385.7	7939.81	61.06	0.54
-18.93	20.9	385.0	7953.33	60.87	0.46
-19.03	21.0	384.6	7961.07	60.83	0.46
-19.20	22.6	383.2	7988.20	60.96	0.49



### **The Department of the Interior Mission**

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



### **The Minerals Management Service Mission**

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The **MMS Royalty Management Program** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.