

Measurements of SO₂ Concentration and Atmospheric Structure in Delta and Breton Wildlife Refuges

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ABSTRACT

A field program designed to measure the ambient concentration of SO₂ as well as pertinent meteorological parameters was conducted during the summer of 1993. Three stations were established in the EPA Class I area of Breton Refuge and the Class II Delta Wildlife Refuge near the mouth of the Mississippi River. It was found that the SO₂ concentration measured throughout the monitoring duration was only 2% of the National maximum allowable once per year. The passage of a weak cold front in September showed that the SO₂ concentrations were higher when the wind blew from land to the Gulf than under normal summer conditions when the wind blew from the Gulf toward land. A separate analysis of atmospheric profiles over the Gulf of Mexico determined that the average mixing height was about 670 m, lower than expected for the region. Further studies are recommended to separate the contributions of pollutants from offshore areas vs. land sources and to more thoroughly document the variations in mixing height for modeling purposes.

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The coastal regions of Louisiana, Mississippi, and Alabama have been well documented for their rich and diverse wildlife and fisheries, and for the natural beauty of the marshlands, islands, and beaches. In order to preserve these environments, two National Wildlife Refuges were established; the Delta Refuge at the mouth of the Mississippi River, and the Breton National Wildlife Refuge which encompasses most of the Chandeleur Island chain. The Gulf Islands National Seashore includes the coastlines of Mississippi and Alabama as well as their barrier islands.

Offshore energy exploration and production in the Gulf of Mexico has become increasingly active in the coastal waters to the east and south of these National preserves. Atmospheric emissions of pollutants such as SO_2 , H_2S , H_2SO_4 , and nitrous oxides are a necessary by-product of energy platform operation. Pollutants are also emitted from mainland facilities such as ports, refineries, and power plants. The most recent Clean Air Act designates numerous National parks and refuges as Class I, thereby subjecting them to the Prevention of Significant Deterioration (PSD) doctrine. Within Class I areas, the air quality must meet established National "increments" for pollutant concentrations.

In response to environmental concerns in the Breton National Wildlife Refuge, the Coastal Studies Institute (CSI) of Louisiana State University entered into an agreement with the Minerals Management Service, New Orleans. The objective of the agreement was to provide measurements of SO_2 concentration in the Delta and Breton Wildlife Refuges and to analyze the structure of the marine atmosphere over these areas. The extent to which atmospheric pollutants from offshore energy production and mainland facilities was affecting the refuges could then be determined.

The summer months of July, August, and September 1993 were chosen for study due to the greater frequency of high pressure systems over the area. Air stagnation associated with the high centers generally leads to higher pollution concentrations. Two offshore stations were established by CSI in late July. The first was on Gosier Island and the second on a moored vessel near Breton Island, both within the Breton National Wildlife Refuge (see Fig. 1). Environmental Science and Engineering, Inc. (ESE) was subcontracted to install and maintain a third station at the headquarters complex in the Pass-A-Loutre Wildlife Area south of Venice, Louisiana. At these three sites, ambient SO_2 concentrations were measured along with wind speed and direction and air temperature.

The data record from each site revealed that the average daily SO_2 concentration was well below the maximum 24-hour National Ambient Air Quality Standard during the monitoring period. The passage of an early season cold front in September provided an interesting study. When the wind blew from the mainland toward the Gulf (post-frontal), the SO_2 concentrations were higher than under normal conditions, i.e., when the wind blew from the Gulf to land.

A separate field project, the Gulf Of Mexico Air Quality Study, was conducted by other agencies during the summer of 1993. As a part of this project, rawinsondes were launched at least twice daily from an offshore platform in the deep Gulf. This dataset was employed for the analysis of the marine atmospheric structure. It was

found that the average overwater mixing height was approximately 670 meters during daytime hours.

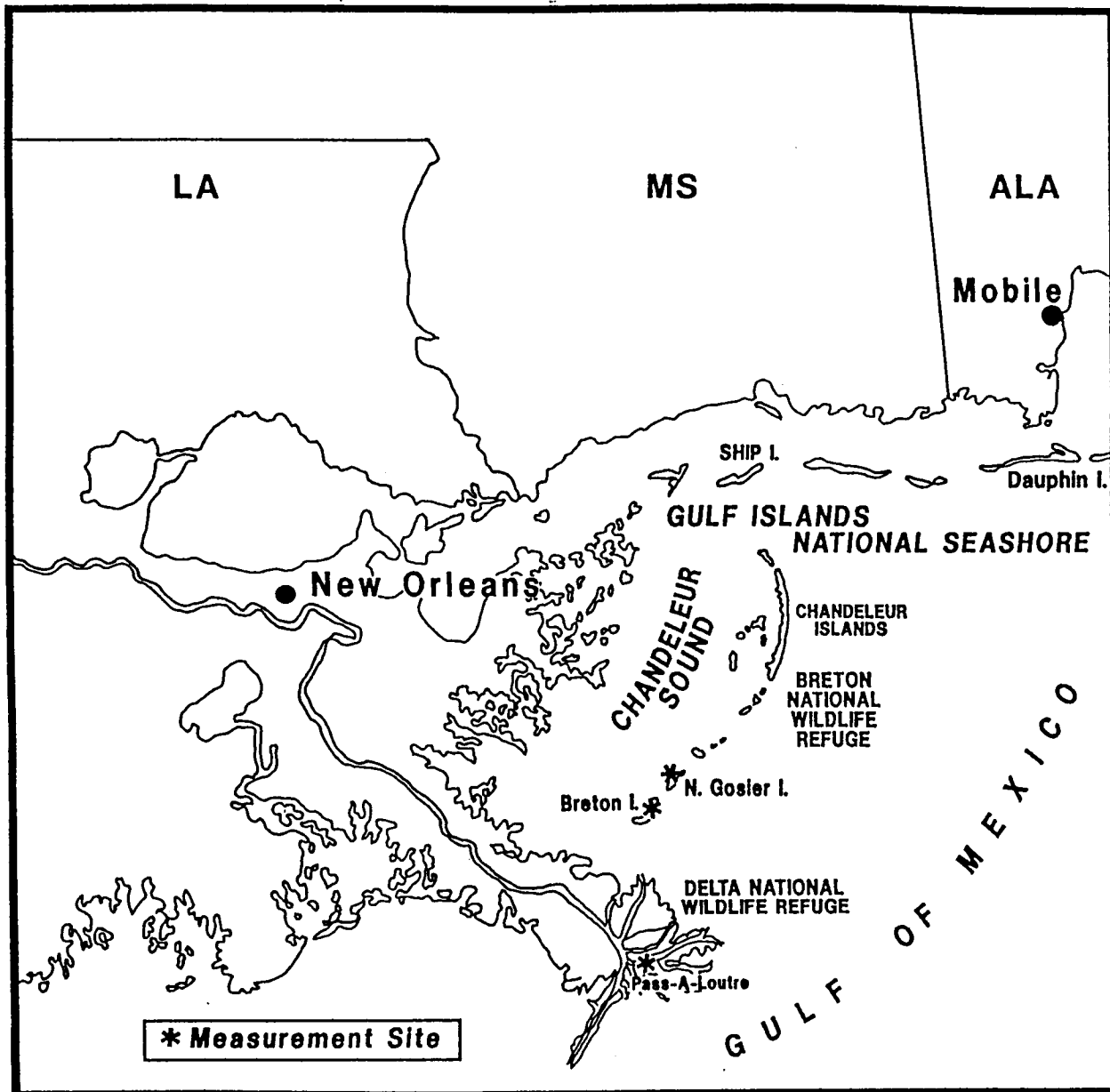


Figure 1. Locations of air quality and meteorological monitoring sites deployed during the summer of 1993.

METHODOLOGY

METHODOLOGY

Two air quality and meteorological monitoring sites were established during the summer of 1993 within the Breton National Wildlife Refuge. The first was set up on the beach at Gosier Island, located at approximately 29°33.69'N 89°03.39'W. The second was installed on a semi-permanently moored vessel, the Chandeleur Islander, near Breton Island at approximate location 29°29.34N 89°10.45W. A third station was later added at the Pass-A-Loutre headquarters in the Delta Wildlife Refuge. The following sections describe each site in detail.

Gosier Island

Design and operation of the Gosier air quality station proved to be the most difficult of the three sites. At the request of the MMS, the station was deployed on the beach just beyond the surf zone. Immediately behind the site was a small pond bordered by a vegetated sand ridge. The entire area was a protected nesting habitat for various waterfowl. Due to the remote location, commercial power and facilities were not available. Therefore, a battery-powered system was designed to operate the air quality monitor and accessories. The components included a Thermo Environmental Model 43A SO₂ Analyzer and a Campbell Scientific CR10 datalogger. A ventilated wooden enclosure was built to house the system and placed upon a scaffold at a height of approximately 8 feet. The power inverter and the monitor itself drew a significant load on the battery array, hence continuous monitoring was not feasible. The CR10 was programmed to activate the analyzer each hour and allow it to run for five minutes, recording a sample each minute. At the end of the deployment, the sample interval was increased to half-hourly.

The station was established on 7 July 1993 for testing, and actual monitoring began on 15 July. Although SO₂ concentration and temperature values were recorded throughout the field program, the data through August was suspect and not used in this study. By mid-August, it was noted that corrosion on the AC relay contacts had periodically prevented the SO₂ monitor from powering up, resulting in zero (or negative) values. By the end of August, the monitor's UV lamp had malfunctioned and the unit was pulled for repairs. A data gap is present from that point until 8 September, when the station was re-deployed.

A serious obstacle presented by these remote locations was that standard monitoring and calibration techniques were not possible. In this regard, a calibration system consisting of flowmeters in a gas proportioner, a zero air cylinder, and a certified SO₂ / Nitrogen calibration cylinder was assembled. Flowmeter calibration was performed at the Louisiana Department of Environmental Quality. The certified SO₂ cylinders were not available until the end of August, therefore no calibration was performed on either the Gosier or Breton station prior to that time.

The Gosier SO₂ analyzer was immediately calibrated upon setup on 8 September. It was then programmed to sample every 1/2 hour and set to run. On 17 September the field measurements concluded. Since the batteries on site were too weak to allow calibration, the unit was returned to the CSI lab where a post-calibration was performed on 20 September. The precision data for the two calibrations are listed in Table 1.

During the September monitoring period, the highest recorded concentration of SO₂ at Gosier Island was 10.4 ppb on 11 September 1993 at 1100 CDT.

Table 1.
Gosier Island SO₂ Precision Calculations

Date	Expected	Precision Actual	% Error
9/8/93	93	98	5.38
9/20/93	93	108	16.13
Sum of D(I)			21.51
Mean of D(I)			10.76
Std. Dev.			5.38
Upper 95% Probability Limit			21.30
Lower 95% Probability Limit			0.22

Breton Island

The Chandeleur Islander, a semi-permanently moored fishing houseboat adjacent to Breton Island, served as host to our second air quality site. Since AC power (produced by the boat's generators) was available here, this site was designed as a continuous backup for the more remote Gosier Island installation. The air quality system was again comprised of a Thermo Environmental Model 43A SO₂ Analyzer and a Campbell Scientific CR10 datalogger. Wind speed and direction was provided by a Qualimetrics Stratavane Windbird mounted at approximately 9 m above the waterline. An Anderraa compass was also installed to determine the bow heading and thus the true wind direction.

Data collection was begun on 15 July. However, the first routine service trip on 27 July found the SO₂ monitor's pump bearings failing and overheating. The unit was pulled, producing the only significant gap in the data record. A Monitor Labs SO₂ Analyzer was obtained on loan from the Louisiana Department of Environmental Quality, and measurements resumed on 3 August. Although uncalibrated, the unit ran throughout the month until replaced on 26 August with the repaired Model 43A. The first field calibration was performed at this time. Recorded SO₂ values from 4-8 September were reported as zero (or negative) due to the monitor's flasher being ajar, cause unknown. After calibration on 8 September, monitoring continued until the site was removed on 17 September. Table 2 lists the precision calibration checks for the Breton site.

After the initial calibration on 26 August, the highest hourly concentration of SO₂ was 22.2 ppb on 1 September 1993 at 0800 CDT with a wind speed of 8.5 mph from 45°. For the final week of intensive monitoring, the highest concentration was 18.8 ppb on 11 September 1993 at 2000 CDT with a wind speed of 1.9 mph and direction of 95°.

Table 2.
Breton Island SO₂ Precision Calculations

Date	Expected	Precision		% Error
		Actual		
8/26/93	93	98		5.38
8/31/93	93	95.8		3.01
9/17/93	93	98		5.38
Sum of D(I)				13.77
Mean of D(I)				4.59
Std. Dev.				1.12
Upper 95% Probability Limit				6.79
Lower 95% Probability Limit				2.39

Pass-A-Loutre

The final monitoring station was provided under subcontract to ESE, Inc. The equipment was set up at the Pass-A-Loutre headquarters complex located within the Delta Wildlife Refuge. System components included a Thermo Environmental Model 43A SO₂ Analyzer, a Thermo Environmental Model 146 Calibrator, an Odessa Model 3260 datalogger, Climatronics Weather System, Soltec Model 1243 Strip Chart, and calibration accessories. Hourly values of wind speed and direction, air temperature, and SO₂ concentration were recorded from 22 July through 15 September 1993. Meteorological data was missing during a 5-day period in August; however overall pollutant and meteorological data capture was 94.6 percent.

Table 3 presents the SO₂ precision calculations for the sampling period. The precision data are reported as a 95 percent confidence interval bounded by two percentile values. The interpretation is that for any randomly selected value within the database represented, there is only 5 percent probability that its accuracy is outside of the boundaries defined as the upper and lower 95-percent confidence limits.

The highest 1-hour SO₂ concentration of 11 ppb was recorded twice during the study period. The first time occurred at 1300 hours on August 17th with wind direction of 34° and wind speed of 3.5 mph. The second maximum occurred on 1 September at 0900 hours with wind direction of 23° and wind speed of 2.6 mph. It is interesting to note that the highest concentration at Breton Island occurred almost simultaneously to the latter Pass-A-Loutre maximum.

Table 3.
 Pass-A-Loutre SO₂ Precision Calculations
 July 1993 - September 1993

Date	Expected	Precision	
		Actual	% Error
7/23/93	78	77	-1.28
7/27/93	78	80	2.56
8/3/93	78	79	1.28
8/18/93	78	80	2.56
8/26/93	78	79	1.28
8/31/93	78	78	0
9/8/93	78	78	0
9/15/93	78	81	3.85
Sum of D(I)			10.26
Mean of D(I)			1.28
Std. Dev.			1.57
Upper 95% Probability Limit			4.36
Lower 95% Probability Limit			-1.80

Site Comparison

Special effort was made during the last week of the field deployment to ensure that the SO₂ monitors at all sites were calibrated and functional. Field calibrations were conducted on 8 September 1993 and again at the conclusion of the monitoring program. For comparative purposes, data from the period of 8-15 September 1993 are shown in Figs. 2-5.

Good agreement is noted between the Breton Island and Pass-A-Loutre wind data. While some correlation amongst the temperature data is seen, the variations can be explained by the fact that the Pass-A-Loutre value represents the ambient air temperature while the other two are the temperatures within the datalogger enclosures. Finally, both Breton and Gosier show a rise in SO₂ concentration during 11 September while Pass-A-Loutre detects little change. As described previously, the highest value was 18.8 ppb at Breton Island on 11 September at 2000 CDT with wind direction of 95° and speed 1.9 mph. Gosier also has peaks of 10.4 and 9.3 ppb on this day at 1100 and 2300 CDT, respectively. Throughout the 11th the winds were light and gradually turning from North to East.

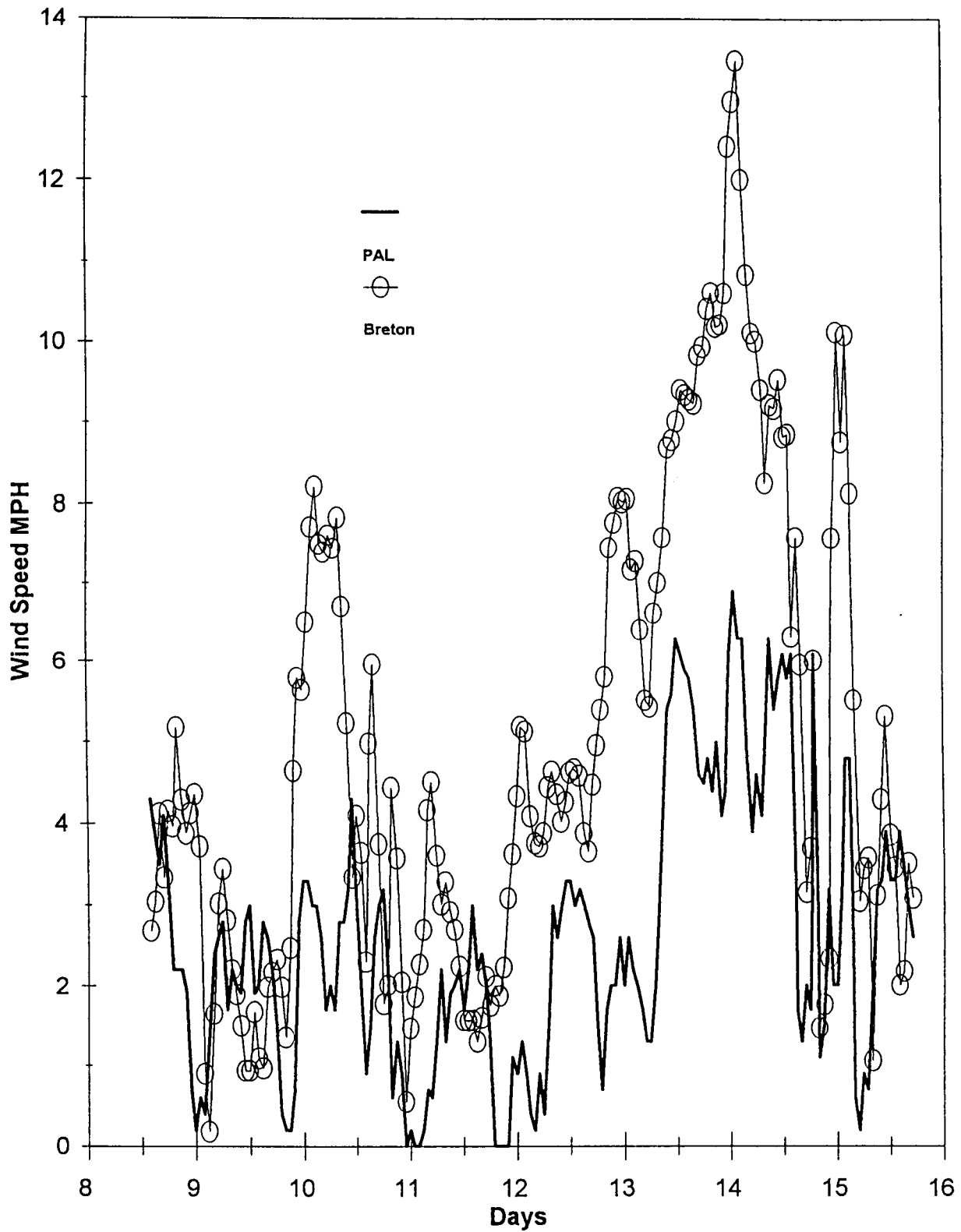


Figure 2. Measurements of surface wind speeds at the Breton Island and Pass-A-Loutre (PAL) stations during September 1993.

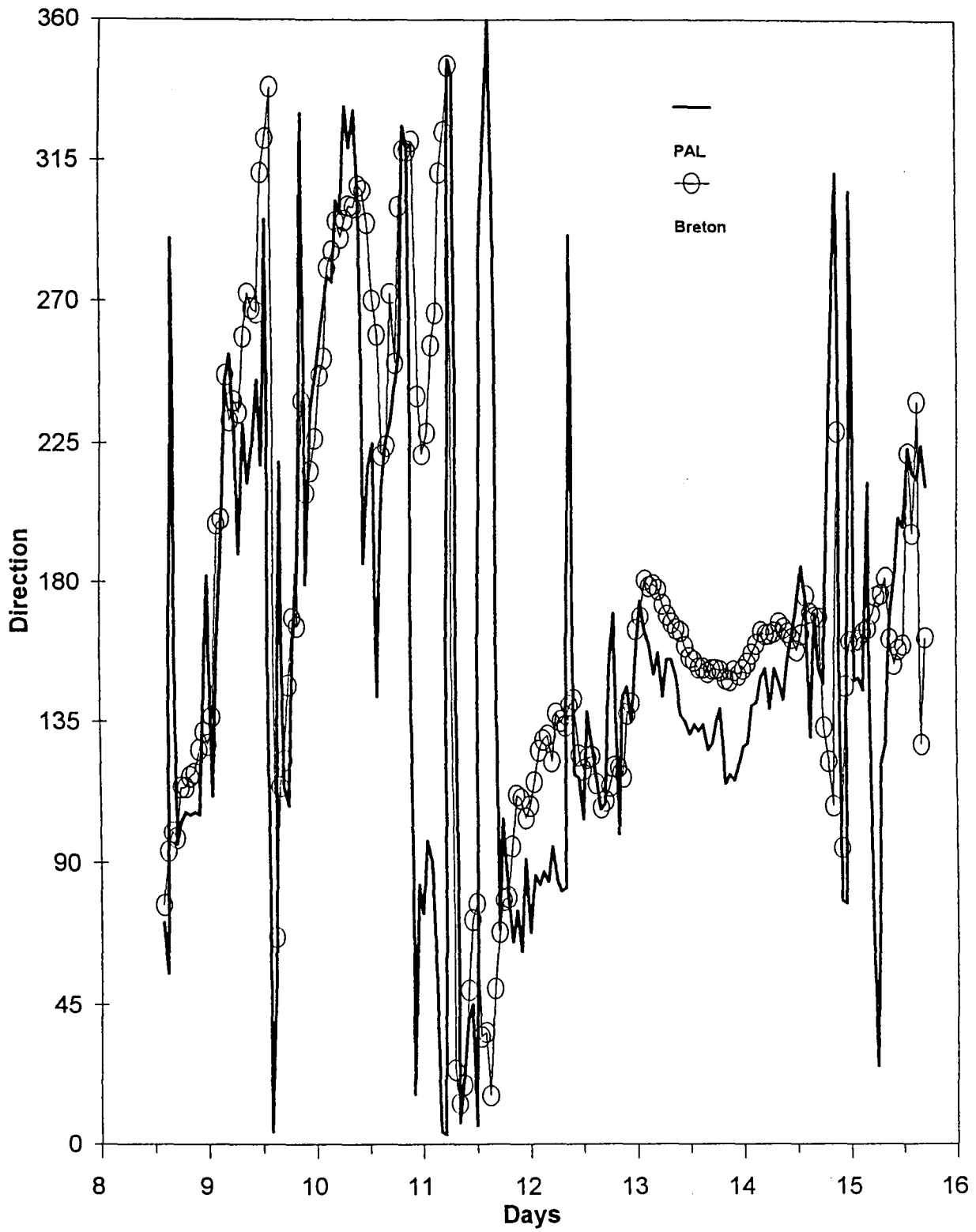


Figure 3. Measurements of surface wind directions at the Breton Island and Pass-A-Loutre (PAL) stations during September 1993.

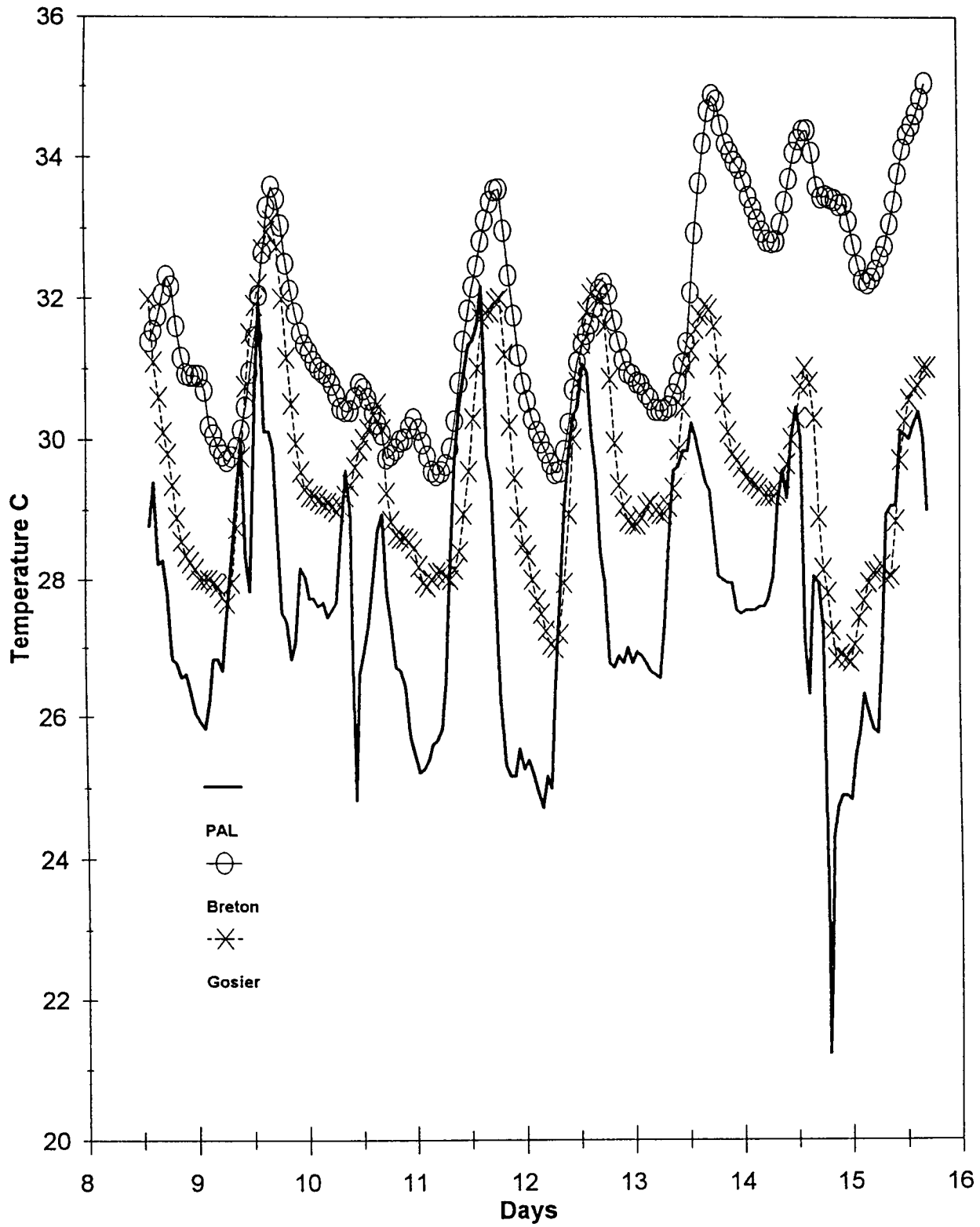


Figure 4. Measurements of enclosure temperatures at Gosier and Breton Islands and ambient air temperature at Pass-A-Loutre (PAL) during September 1993.

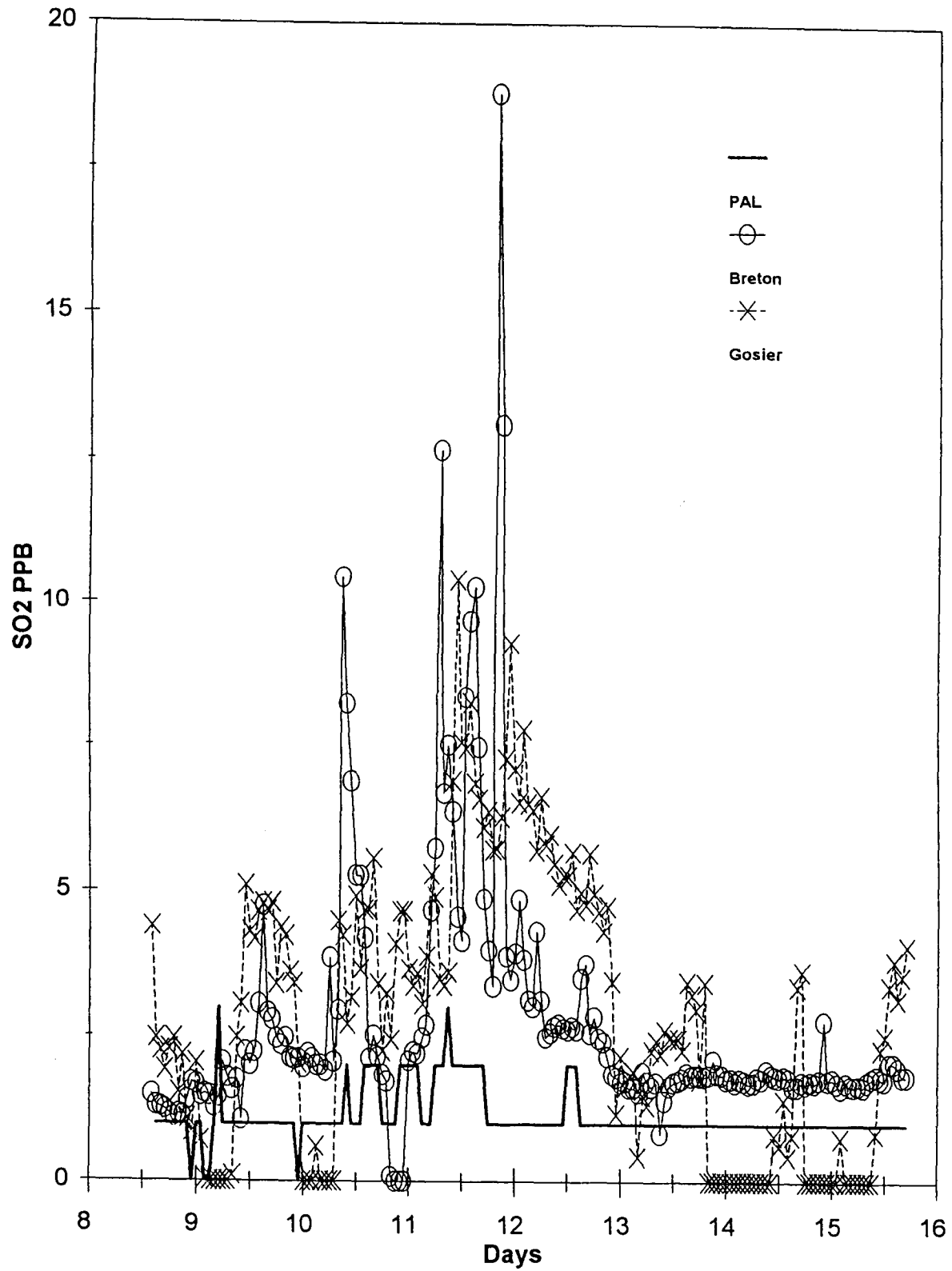


Figure 5. Measurements of hourly SO₂ concentrations at the three monitoring sites during September 1993.

RESULTS AND DISCUSSION

RESULTS AND DISCUSSION

The concentration of atmospheric pollutants is inversely proportional to the wind speed. Generally speaking, the wind speeds are lower in the summer than in other seasons. With this in mind, we were funded by the Minerals Management Service to measure the SO₂ concentration in the summer of 1993 in the Breton Wilderness area. Major results are summarized in Fig. 6. Note that the highest SO₂ concentration in the summer of 1993 are incorporated in the figure so that they can be compared to the National Ambient Air Quality Standards (NAAQS). Since the maximum 24 hr NAAQS for SO₂ is 140 ppb for both primary and secondary standards, we use this value for our brief discussion here. In the summer of 1993 the averaged maximum 24 hr was 3 ppb, which is approximately 2% of the 140 ppb allowable once a year. Figure 6 also delineates the PSD increments of the SO₂ for 24 hr maximums, which is approximately 2 ppb. The Breton Wilderness area is also a Class I area, so the PSD values must be applied. Therefore, we have about 5 ppb for the 24 hr maximum, which is below 5% of the maximum 24 hr value of 140 ppb allowable once per year.

In our area, atmospheric frontal systems become active in September. An example of the SO₂ measurements in the Fall is provided in Table 4. It shows that after the passage of a weak cold front on September 11, 1993, when the wind blew from the land to the Gulf, the SO₂ concentration was at least twice as high as when the Bermuda High Pressure System resumed its normal influence, i.e., when the wind blew from the Gulf toward land. Therefore, the SO₂ concentration in our area may be due to sources from both land and the offshore region.

Table 4.
A comparison among calibrated measurements of SO₂ concentrations (in ppb) in the Breton Wilderness Area when the wind blew from land to Gulf on September 11 and vice versa on September 13, 1993 (in parentheses).

Location	Maximum 3 hour average	Maximum 24 hr average
Gosier Island	8.5 (3.2)	5.8 (2.3)
Breton Island	11.9 (2.0)	6.3 (1.7)
Pass-A-Loutre	2.3 (1.0)	2.0 (1.0)
EPA Standards*	500	140

*Not to be exceeded more than once per year.

In the summer of 1993, rawinsondes were launched over the deep Gulf of Mexico from the Chevron platform GB 236A located at approximately 27.8°N 93.1°W. Launches were made at least twice daily at 0700 and 1900 CDT, and occasionally at 1300 CDT. This dataset was analyzed in order to determine the variation of the average marine atmospheric mixing height. Values of θ (potential temperature °C) and q (mixing ratio in gm/kg) were plotted through the first 2000 m for each profile as provided in Fig. 7. Mixing height was defined here as the height at which dq/dz and $d\theta/dz$ became $\gg 0$. 53 clearly-defined cases were found. The variation of the

average atmospheric mixing height is shown in Fig. 8. Between 7:00 A.M. and 7:00 P.M. over the deep Gulf of Mexico, the average height was approximately 670 m above the mean sea level with a standard deviation of about 100 m. Since air and sea surface temperatures are nearly homogeneous in the summer months, the mixing height statistics from GB 236A can be used to approximate the conditions over the Breton and Delta Refuges.

In summary, on the basis of our SO₂ measurements in the summer of 1993 in the Breton and Delta Wildlife Refuges, the SO₂ concentration in these Class I and Class II areas, respectively, was only 2% of the National maximum allowable once per year. However, we also found that when the wind blew from land to our Class I area offshore the SO₂ concentration was more than twice as compared to the meteorological condition when the wind blew from the Gulf toward the land.

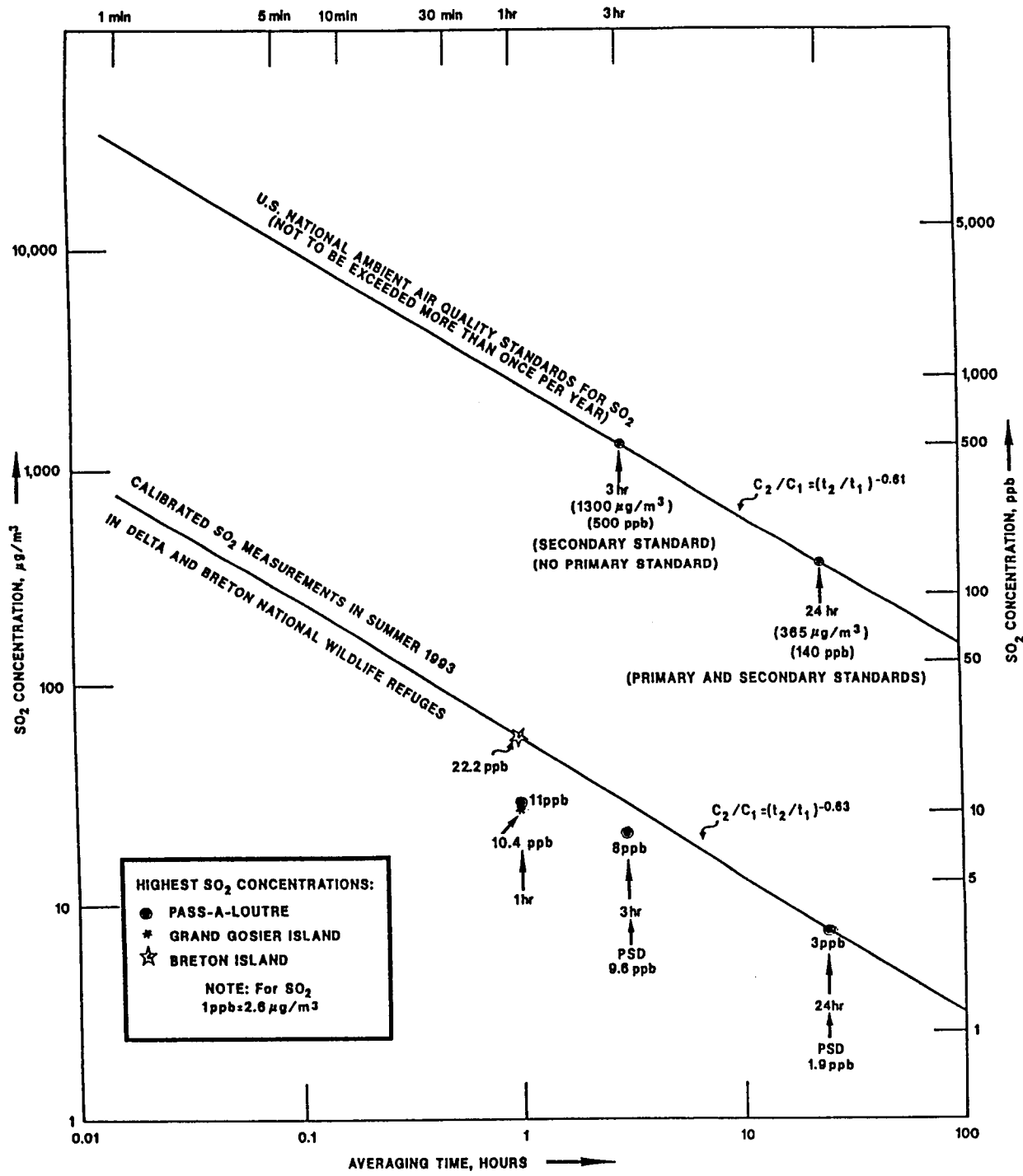


Figure 6. Measurements of SO₂ concentration in the Breton Wilderness Area in the summer of 1993 and their pollution levels relative to NAAQS and PSD.

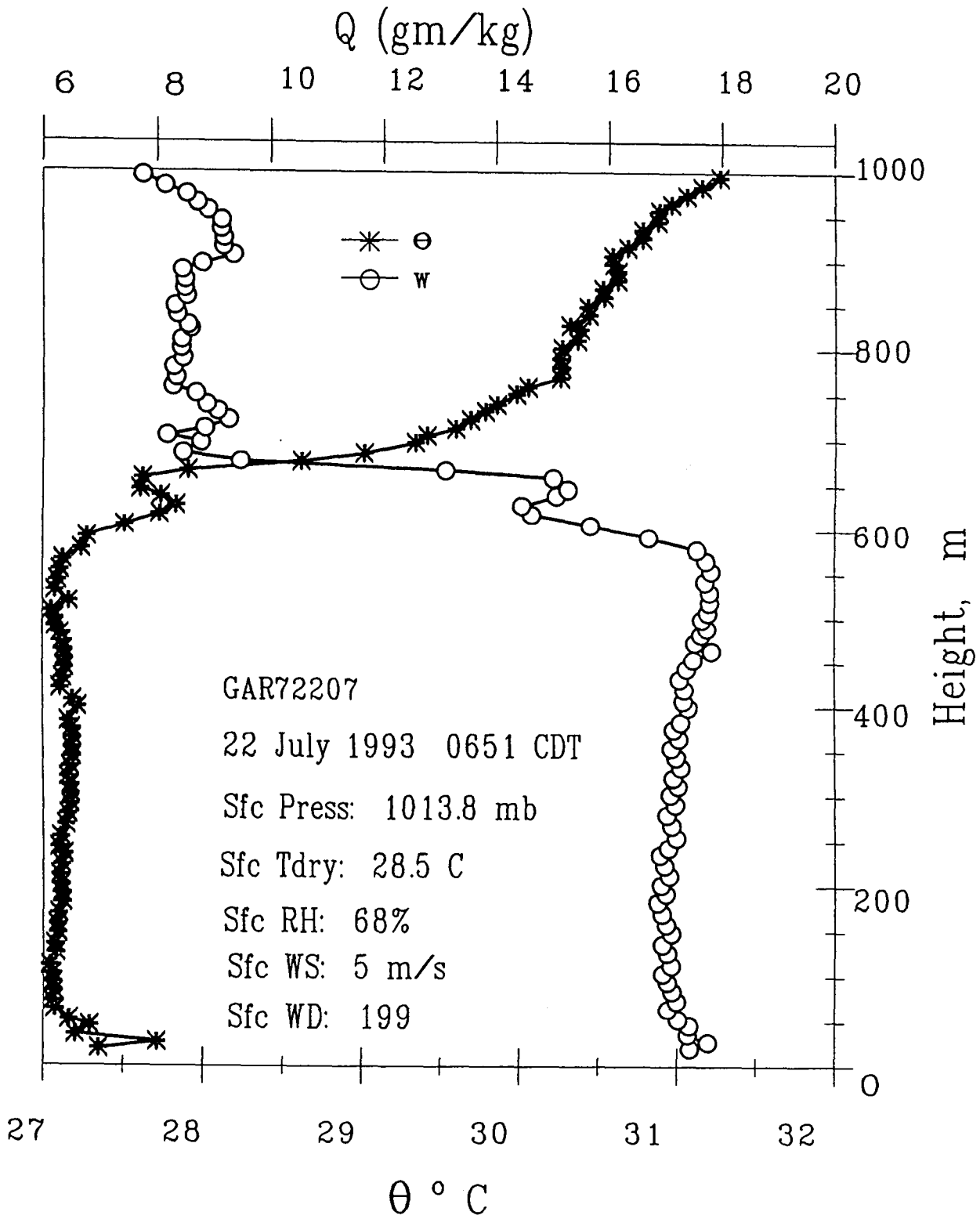


Figure 7. An example of an atmospheric sounding profile taken at deep Gulf platform GB 236A during the summer of 1993 used to determine the mixing height.

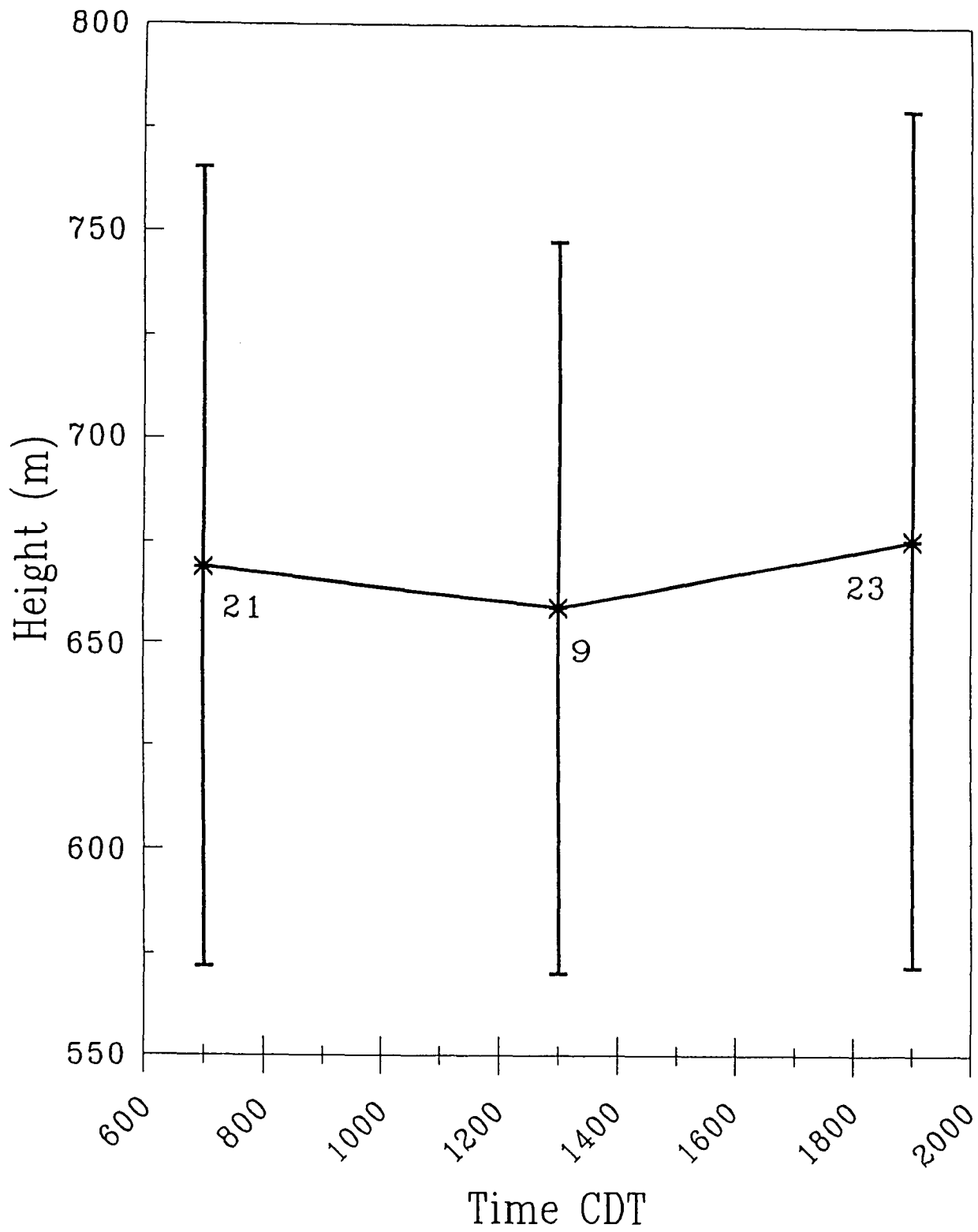


Figure 8. The temporal variation of the average mixing height over the Garden Banks 236 platform in the Gulf of Mexico during the summer of 1993.

RECOMMENDATIONS

RECOMMENDATIONS

It is recommended that detailed (hourly) measurements of the SO₂ concentration for an entire one-year period be made in order to separate the contributions from the offshore region vs. land sources. In addition, an SO₂ transport trajectory climatology, including more upper-air soundings to determine overwater spatial and temporal variations of the atmospheric mixing layer, should be thoroughly investigated for the Gulf Coast region.

APPENDIX A
JULY 1993
HOURLY SO₂ AND METEOROLOGICAL DATA

CSI Station Gosler Island, Louisiana
July 1993 SO2 Concentration in PPB

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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		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		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		20.8	21.2	21.0	20.9	21.5	21.4	21.7	21.1	21.7	21.6	22.9	23.2	26.4	25.0	22.8	23.5	21.6	23.9	22.3	22.6	22.0	20.4	21.0	21.1
17		21.2	20.8	20.5	21.4	21.5	20.9	21.7	21.2	21.9	21.9	26.0	24.1	24.3	24.2	24.4	23.9	24.6	30.0	22.4	21.6	22.0	21.7	22.0	21.5
18		20.7	20.7	20.8	21.0	20.8	20.5	21.6	21.3	20.9	21.9	24.6	23.1	24.1	25.3	26.1	24.2	23.4	22.8	21.9	20.9	20.3	20.4	20.7	20.8
19		21.5	21.0	21.0	20.4	21.1	20.7	21.2	21.0	21.4	21.8	21.5	22.2	22.4	22.8	22.8	22.0	21.7	20.0	20.0	19.9	20.0	20.7	20.3	20.3
20		21.2	20.7	20.3	20.8	20.9	20.8	21.1	22.0	21.1	24.6	22.2	21.4	25.8	21.9	21.5	21.2	21.8	21.8	20.4	20.4	20.9	21.8	40.8	27.6
21		28.0	22.3	20.4	20.9	21.0	24.4	30.0	20.3	21.2	26.2	23.1	20.6	21.7	22.9	20.1	20.4	20.9	20.8	20.2	19.6	19.8	20.4	20.6	20.9
22		20.7	20.6	19.5	19.4	19.5	0.0	15.2	19.2	21.6	21.6	21.6	20.4	17.1	17.7	19.6	19.8	21.0	21.0	19.3	20.0	19.0	22.2	20.0	21.6
23		20.6	20.1	20.3	19.8	19.4	19.3	19.5	19.3	20.1	23.6	23.8	21.2	17.9	20.5	18.5	19.0	19.7	20.9	20.6	19.7	19.0	19.4	17.8	18.8
24		18.6	19.5	20.0	19.6	19.9	20.7	21.3	20.2	28.8	22.0	19.2	23.6	20.5	19.0	17.5	17.3	16.9	18.6	20.5	20.6	7.8	20.2	19.5	19.0
25		17.1	16.2	16.5	17.0	16.1	14.8	14.3	13.5	19.0	20.1	19.4	20.5	20.2	20.3	20.4	20.8	21.6	0.0	21.6	21.2	20.5	19.8	19.0	19.4
26		19.4	18.6	20.4	24.7	19.8	20.4	19.9	19.4	19.4	19.7	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	7.8	10.5	16.0	16.3	16.7	15.9	13.3	3.6	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	0.0	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	0.0	0.0	0.0	12.1	21.0	14.6	11.7	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	0.0	8.4	17.4	23.0	24.9	25.1	21.8	14.2	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	0.0	3.3	8.4	7.6	22.3	31.5	30.9	25.7	25.8	25.3	25.1	23.0	22.7	20.0	0.0	0.0

A-3

Maximum Hourly Concentration SO2 40.8 ppb on 7/20/93 @ 2200CDT

**CSI Station Gosier Island, Louisiana
July 1993 Air Temperatures In Degrees C**

Day	Hour CDT																							
	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	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	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	28.4	27.7	27.6	27.7	27.5	27.5	27.6	27.6	27.7	27.5	27.9	28.9	29.3	29.8	30.6	30.8	31.4	32.1	32.3	32.0	31.3	30.4	29.9	29.5
17	29.2	29.0	28.8	28.8	28.8	28.8	28.7	28.6	28.6	28.8	29.1	29.6	29.9	30.3	31.1	32.1	33.0	33.1	32.8	32.4	31.8	31.1	30.4	30.0
18	29.7	29.5	29.3	29.3	29.2	29.2	29.3	29.2	29.2	29.4	29.6	29.9	30.5	31.2	32.0	32.8	32.9	32.8	32.9	32.8	32.3	31.5	30.8	30.2
19	29.7	29.4	29.3	29.1	28.9	28.9	28.7	28.7	29.1	29.9	30.9	31.6	32.3	32.6	32.8	33.1	33.1	33.0	32.9	32.5	32.0	31.5	31.1	30.7
20	30.4	30.3	30.3	30.2	30.1	29.9	29.6	29.5	29.5	29.6	29.8	29.8	29.5	30.0	30.8	31.9	32.4	32.6	32.5	31.5	30.8	30.1	29.9	29.7
21	29.5	29.2	29.0	28.9	28.8	28.9	29.0	29.0	29.1	29.3	29.5	29.6	29.6	29.8	29.7	28.3	28.0	28.4	28.7	28.6	28.4	28.3	28.3	28.3
22	28.2	27.9	27.8	27.7	27.6	27.6	27.6	27.5	27.6	27.9	28.0	28.2	27.8	27.3	26.3	26.0	26.6	27.3	27.7	27.8	27.8	27.6	27.6	27.5
23	27.5	27.6	27.6	27.6	27.7	27.9	28.1	28.3	28.5	28.7	29.0	29.2	28.2	27.2	27.0	27.1	27.6	28.2	28.6	28.8	28.8	28.6	28.4	28.4
24	28.4	28.6	28.8	28.8	28.8	28.8	28.7	28.6	28.5	28.4	28.2	27.6	27.8	27.9	26.5	25.7	25.2	25.1	25.5	26.2	26.7	27.0	27.2	27.1
25	27.1	27.2	27.2	27.3	27.3	27.1	26.5	25.8	25.5	25.4	25.8	25.9	26.0	26.3	26.9	27.7	28.4	29.2	29.8	30.0	29.7	29.2	28.8	28.4
26	28.2	28.1	28.1	28.0	27.9	27.8	27.8	27.8	27.9	28.1	28.9	29.6	30.1	30.5	30.9	31.4	32.0	32.3	32.5	32.5	31.9	31.0	30.3	29.8
27	29.4	29.1	28.8	28.6	28.5	28.3	28.2	28.1	28.3	29.1	30.0	41.8	38.4	36.0	35.1	34.9	34.7	34.4	34.0	33.6	32.8	31.8	31.0	30.4
28	29.9	29.6	29.4	29.2	29.2	29.2	29.3	29.4	29.5	29.9	30.2	30.5	30.6	30.8	31.1	32.0	32.6	32.4	32.3	32.1	31.5	31.0	30.7	30.4
29	30.0	29.7	29.5	29.3	29.3	29.3	29.3	29.2	29.2	29.3	29.5	29.7	30.1	30.9	31.5	32.4	33.4	34.0	33.6	32.8	32.0	31.3	31.0	30.3
30	29.3	28.6	28.4	28.6	28.8	28.9	29.1	29.0	28.9	28.9	28.9	29.2	29.5	30.0	30.9	31.7	32.4	33.3	33.9	33.2	32.1	31.2	30.7	30.4
31	30.3	30.3	30.4	30.4	30.3	30.1	30.0	30.0	30.3	30.6	30.8	31.1	31.5	32.2	32.7	33.0	33.6	34.3	35.1	35.4	34.6	33.4	32.2	31.2

Maximum Hourly Air Temperature 41.8 C on 7/27/93 @ 1100CDT
Minimum Hourly Air Temperature 25.1 C on 7/24/93 @ 1700CDT

CSI Station Breton Island, Louisiana
July 1993 SO2 Concentration in PPB

Day	Hour CDT																							
	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	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	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	22.8	21.8	22.2	22.8	22.5	24.4	24.4	23.4	23.6	22.1	22.7	22.9	23.4	22.6	27.0	33.3	29.7	27.6	28.7	28.7	28.0	23.7	22.4	23.1
17	22.3	21.9	22.2	22.1	25.7	23.4	24.0	24.2	23.6	24.8	24.5	23.8	26.5	30.4	28.8	24.2	32.3	30.8	28.7	27.7	29.6	34.8	23.9	25.0
18	22.2	21.9	22.0	23.5	24.7	25.4	25.6	24.2	24.2	23.9	23.0	23.3	23.2	22.8	23.9	22.9	22.5	21.5	22.0	22.3	21.5	21.4	25.3	21.8
19	24.4	22.8	23.7	22.6	22.2	26.3	25.2	27.3	23.9	25.6	28.1	23.7	28.9	25.8	26.9	27.2	29.0	24.6	24.2	26.9	21.8	21.0	22.1	22.2
20	21.6	21.9	22.3	21.5	25.2	22.9	22.8	22.3	21.1	21.9	21.9	22.6	22.9	22.4	21.2	20.9	20.5	23.3	23.8	21.3	21.4	22.9	22.3	23.5
21	23.6	21.7	21.6	22.6	29.0	25.9	23.1	23.4	20.4	20.7	23.3	21.5	17.4	20.8	20.8	21.5	20.9	20.8	20.5	20.7	20.6	20.4	23.8	31.3
22	26.2	21.6	21.9	23.0	23.6	22.8	21.7	21.4	23.4	24.1	21.1	21.9	22.2	21.9	23.5	21.9	21.7	13.0	22.0	22.6	26.5	20.8	21.5	20.4
23	20.9	20.7	20.6	22.2	21.1	21.3	20.3	20.3	20.9	21.7	21.0	21.2	21.1	23.5	34.8	21.7	20.8	23.3	27.4	23.7	21.7	23.0	23.6	23.3
24	22.3	21.9	21.6	21.6	22.0	25.0	22.4	22.6	20.8	21.2	21.1	20.9	21.8	24.2	25.2	22.4	28.1	22.3	21.6	20.8	20.8	21.2	20.8	20.5
25	22.7	20.8	22.2	22.4	23.2	22.1	24.3	23.7	24.2	22.4	22.9	31.6	33.5	32.1	20.7	20.4	21.0	20.7	20.1	20.7	20.1	20.1	20.0	20.8
26	21.2	28.7	30.9	20.3	22.2	20.5	20.2	19.6	20.6	23.9	23.3	20.6	19.1	19.1	18.9	17.9	17.5	17.2	16.5	16.5	17.2	18.2	19.5	20.2
27	19.4	17.8	20.7	22.9	15.4	15.3	14.3	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

A-5

Maximum Hourly SO2 Concentration 34.8 ppb on 7/17/93 @ 2100 CDT

CSI Station Breton Island, Louisiana
July 1993 Air Temperature in Degrees C

Day	Hour CDT																							
	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	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	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	29.9	29.8	29.7	29.4	29.1	29.3	29.7	30.1	30.4	30.4	30.3	30.2	30.3	30.7	31.2	31.5	31.6	31.5	31.4	31.3	31.2	31.0	30.7	30.4
17	30.1	29.9	29.7	29.9	30.1	30.3	30.5	30.6	30.8	30.8	30.8	31.0	31.4	32.0	32.5	32.8	32.8	32.8	32.6	32.4	32.3	32.2	32.0	31.8
18	31.5	31.3	30.9	30.6	30.7	30.9	31.0	31.3	31.5	31.5	31.5	31.6	31.7	32.1	32.6	32.9	33.0	33.0	32.7	32.5	32.3	32.1	32.0	31.9
19	31.8	31.5	31.3	31.9	32.4	32.7	32.9	33.0	33.0	33.2	33.3	33.3	33.4	33.5	33.5	33.4	33.1	32.9	32.8	32.7	32.5	32.2	31.9	31.6
20	31.3	31.0	30.7	30.6	30.8	31.0	31.3	31.7	32.1	32.4	32.8	33.2	33.5	33.8	33.8	33.7	33.4	33.1	32.8	32.7	32.6	32.5	32.5	32.5
21	32.4	32.3	32.2	32.2	32.3	32.3	32.4	32.5	32.5	32.2	31.8	31.7	31.6	31.1	30.5	29.9	29.5	29.4	29.4	29.5	29.5	29.5	29.5	29.6
22	29.7	29.7	29.5	29.2	29.0	29.0	28.9	28.8	28.7	28.5	28.5	28.8	29.0	28.7	28.5	28.5	28.6	28.6	28.6	28.6	28.8	28.9	29.0	29.1
23	29.1	29.1	29.1	29.2	29.3	29.5	29.6	29.3	29.1	29.0	29.0	29.1	29.2	29.4	29.7	29.8	30.0	30.2	30.2	30.3	30.2	30.1	29.9	29.8
24	29.5	29.3	29.0	28.8	28.7	28.6	28.6	28.5	28.0	27.4	26.9	26.7	26.6	26.7	27.0	27.4	27.9	28.3	28.4	28.3	28.2	28.2	28.2	28.2
25	27.9	27.6	27.3	26.9	26.7	26.7	26.6	26.9	27.2	27.4	27.8	28.2	28.8	29.5	30.1	30.3	30.2	30.0	29.8	29.6	29.3	29.1	29.0	28.9
26	29.0	29.1	29.2	29.4	29.9	30.4	30.5	30.4	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.8	30.4	30.2	30.1	30.0	29.8	29.8	29.7
27	29.7	29.7	29.8	30.4	31.0	31.5	31.8	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

Maximum Hourly Air Temperature 33.8 C on 7/20/93 @ 1300 and 1400 CDT
Minimum Hourly Air Temperature 26.6 C on 7/24/93 @ 1200 CDT and 7/25/93 @ 0600 CDT

**CSI Station Breton Island, Louisiana
July 1993 Wind Speeds in MPH**

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day																									
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	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
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	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	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	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	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	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	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	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	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	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	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	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	Miss
15	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	3.3	5.9	5.3	2.0	4.6	5.1
16	5.2	4.8	6.2	4.3	3.2	2.8	2.5	2.2	2.7	4.2	1.2	1.9	1.7	2.6	4.0	5.5	4.2	4.2	3.8	3.5	3.7	4.5	5.6	3.5	
17	5.3	5.2	3.5	4.8	2.4	2.9	2.6	2.0	1.0	0.3	0.7	2.1	3.1	2.7	4.0	5.4	5.0	4.6	4.3	4.8	4.9	5.3	5.0	5.4	
18	5.3	4.6	5.0	5.0	3.6	4.4	2.2	1.9	1.6	1.9	1.2	0.7	3.6	1.7	3.7	3.9	4.2	5.1	5.0	4.0	3.9	2.8	2.3	2.6	
19	1.8	1.2	2.3	2.1	2.1	1.7	1.6	0.6	1.2	0.3	1.3	3.5	5.5	4.3	2.8	6.4	5.2	5.3	4.8	4.6	6.3	6.1	7.5	7.3	
20	6.9	7.8	7.5	7.4	7.5	9.2	8.2	6.5	4.5	2.8	3.1	2.8	1.7	5.4	3.9	6.0	4.4	3.6	4.0	3.0	2.0	3.6	4.9	4.1	
21	5.3	4.5	3.8	4.0	4.4	5.3	5.8	4.1	9.5	10.2	7.8	5.2	6.2	6.1	4.7	4.8	3.9	0.7	2.1	3.7	5.4	4.3	4.9	5.4	
22	2.8	3.0	5.0	4.2	1.4	4.4	7.8	7.9	6.2	4.2	7.1	8.1	7.0	7.6	5.0	5.0	4.6	4.2	4.6	3.3	3.6	5.4	5.9	5.6	
23	5.8	6.1	4.8	4.6	6.5	6.2	10.6	7.5	4.2	5.2	6.1	6.5	7.0	5.1	3.8	3.2	2.9	3.7	5.3	4.7	5.0	4.7	4.8	6.4	
24	7.2	7.5	9.6	7.5	6.6	5.3	7.5	5.9	5.8	4.5	3.8	4.0	3.8	4.0	3.1	3.3	3.0	2.6	3.5	4.3	4.6	4.9	3.8	8.7	
25	6.2	5.2	7.1	4.9	7.4	8.4	6.7	7.0	5.8	4.5	3.2	2.6	3.0	4.0	6.1	5.2	4.7	5.3	5.3	5.5	5.9	5.6	5.2	4.9	
26	4.8	4.0	3.1	2.1	3.0	3.2	3.1	3.1	2.2	0.8	1.2	1.9	2.4	2.5	3.8	5.0	5.9	5.5	5.5	5.6	6.0	5.3	4.9	4.5	
27	4.1	3.1	1.7	2.1	2.2	1.6	1.5	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	

Maximum Speed 10.6 mph on 7/23/93 @ 0600CDT

A-7

CSI Station Breton Island, Louisiana
July 1993 Wind Direction in Degrees

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day	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	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	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	247	177	218	344	227	222
	16	222	215	287	319	289	304	313	325	345	19	33	154	194	196	237	257	251	252	254	248	246	275	291	319
	17	327	336	16	347	359	36	18	45	25	51	164	199	226	247	230	224	251	255	257	240	241	253	266	270
	18	291	316	327	345	12	3	8	51	97	131	220	250	346	4	226	226	229	219	231	237	249	262	251	266
	19	287	6	292	283	289	276	280	241	244	14	337	258	261	308	282	266	254	229	237	249	283	281	268	268
	20	289	313	321	326	329	346	342	337	329	321	306	298	298	31	7	38	51	100	123	132	154	283	322	328
	21	337	346	331	350	335	5	37	30	225	226	257	331	338	357	333	354	11	358	195	192	207	207	237	242
	22	254	338	348	348	341	209	216	245	252	270	282	299	310	324	316	301	266	266	267	276	263	267	272	277
	23	300	299	310	337	300	293	280	278	317	292	307	294	290	271	260	239	208	232	264	276	274	281	278	296
	24	304	309	317	325	329	343	334	295	159	226	318	356	317	299	266	263	252	215	175	179	182	184	207	209
	25	227	227	292	306	279	296	270	270	289	309	299	265	253	259	235	218	218	216	214	194	194	201	219	231
	26	233	238	254	271	313	321	319	324	320	263	228	196	171	169	172	193	189	187	193	194	194	212	234	238
	27	235	226	259	295	307	314	328	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

ESE Station Pass-A-Loutre, Louisiana
July 1993 SO2 Concentration in PPB

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		Day																							
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	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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Miss
22	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	1	1	1	1	1	1	1	1
23	1	1	2	1	1	1	1	Cal	1	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	1	1	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	1	0	0	0	0	0	Cal	Cal	1	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	1	2	1	0	1	1	2	1	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	2	2	2	1	0	0	0	0	0	0	0	0	0	1	0	0	1	
31	0	0	0	1	0	3	2	2	2	3	2	2	1	1	3	2	1	1	2	2	0	0	2	2	

A-9

Maximum Hourly Concentration SO2 3 ppb on 7/31/93 @ 1400CDT

ESE Station Pass-A-Loutre, Louisiana
 July 1993 Air Temperatures in Degrees C

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day																									
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	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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Miss
23	27.1	27.1	27.1	27.1	27.3	25.8	24.3	Cal	26.3	25.6	25.9	25.7	26.5	27.8	27.9	28.6	28.4	28.2	27.3	26.6	26.6	26.6	26.6	26.6	26.9
24	28.1	28.0	28.0	28.0	28.1	28.1	27.8	27.8	27.4	27.1	26.0	24.7	24.3	24.7	25.1	25.6	26.0	25.9	26.3	26.6	26.6	26.6	26.6	26.2	26.6
25	27.1	26.7	25.4	26.5	25.2	24.6	24.7	24.8	24.5	23.1	24.0	25.8	26.9	28.0	28.9	30.5	29.9	29.4	28.7	27.9	27.8	27.4	26.3	26.5	
26	26.6	26.9	27.0	27.1	26.9	27.1	27.0	28.2	29.6	29.9	30.8	31.1	31.6	32.0	29.1	27.3	29.4	30.2	29.7	28.4	27.6	27.5	27.2	27.0	
27	26.8	27.6	27.7	27.7	27.4	27.5	27.5	29.7	29.9	30.5	30.4	31.4	32.4	Cal	Cal	31.3	31.8	31.1	30.1	29.1	28.4	28.0	28.3	28.0	
28	27.9	28.1	28.1	28.3	28.3	28.4	28.4	29.7	30.9	31.5	31.1	27.7	25.3	26.4	27.3	27.4	29.6	29.8	29.5	28.8	28.3	27.4	27.1	26.9	
29	27.0	27.6	27.7	27.7	27.7	27.6	27.7	28.2	29.6	30.3	31.4	32.3	32.7	32.8	33.2	32.9	32.8	31.8	30.9	30.1	29.8	29.4	29.2	28.9	
30	26.8	27.2	27.6	27.9	27.1	27.3	27.9	28.8	29.2	30.7	31.1	31.7	32.5	32.8	33.2	33.2	33.7	31.6	31.9	30.4	29.9	29.8	29.7	29.6	
31	29.6	29.4	29.1	28.7	28.4	28.2	28.3	29.1	30.9	33.0	33.8	33.6	33.9	34.4	34.3	35.3	35.2	34.3	33.7	31.6	29.9	34.7	29.1	29.7	

A-10

Maximum Hourly Air Temperature 35.3 C on 7/31/93 @ 1500CDT
 Minimum Hourly Temperature 23.1 C on 7/25/93 @ 0900CDT

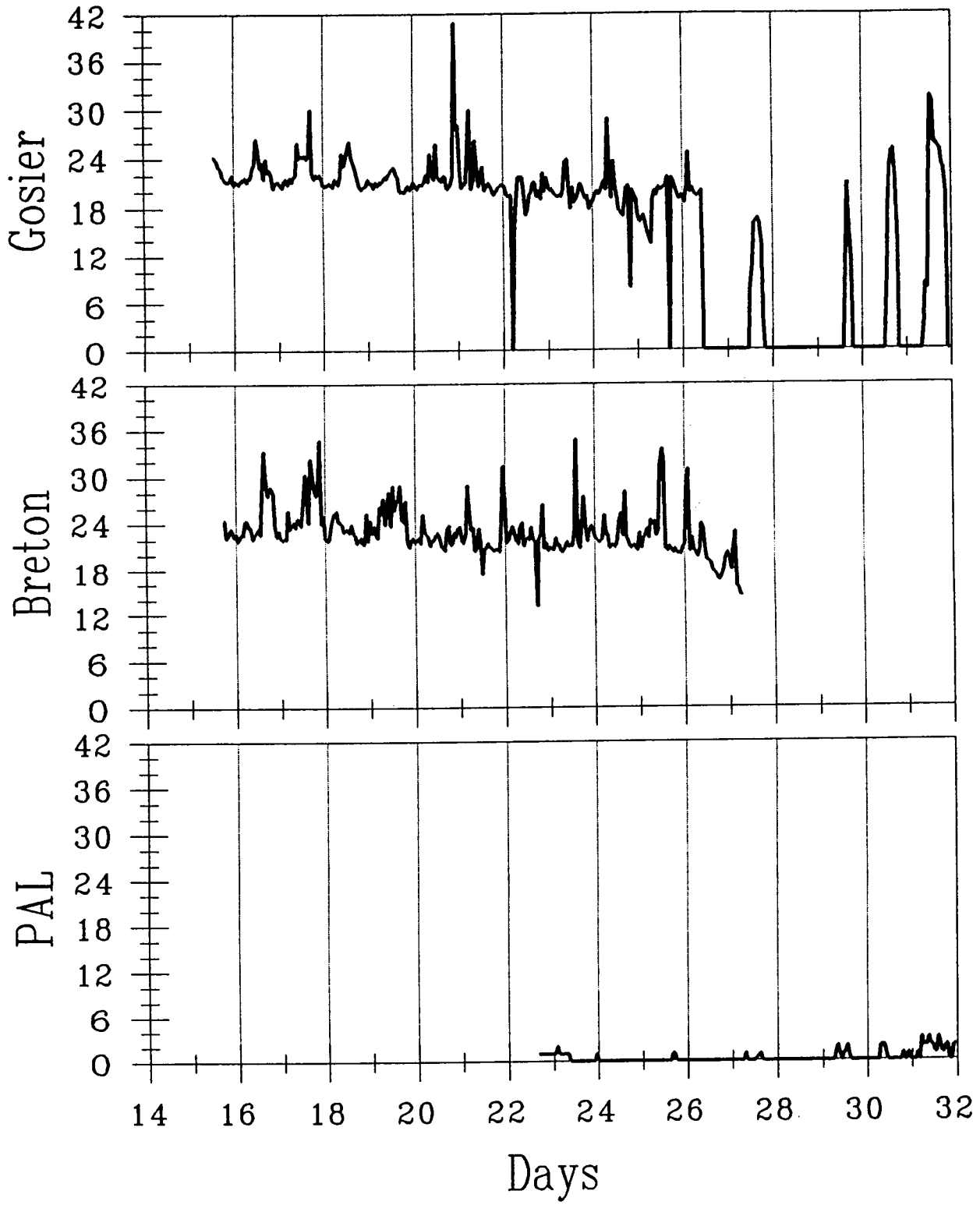
ESE Station Pass-A-Loutre, Louisiana
July 1993 Wind Speeds in MPH

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
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	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	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	6.5	3.9	4.8	3.3	1.3	0.9	1.1	1.7
23	2.4	2.6	3.3	2.4	2.2	4.6	4.8	Cal	3	3.2	1.7	6.1	2.8	3.1	3.5	3.9	4.8	3.7	3.7	2.6	2	2.6	3.5	3.9
24	3.1	3.9	3.5	3.1	4.1	4.8	5	5.7	4.1	3.3	4.8	4.3	5.9	3.2	1.9	1.9	3	3.9	2.2	2.4	2	1.5	0.9	2
25	3	3.9	3.1	5.2	6.5	4.6	3.3	5.6	9.1	9.1	5.8	6.3	6.3	5.2	4.6	2.6	3.3	3.1	4.6	3.3	1.5	0.6	0.6	0.6
26	1.9	2	2.4	2.4	2.2	2	1.7	1.7	1.3	2	1.9	2.4	2.4	2.2	4.3	4.1	2.6	2.6	2.2	1.7	0.9	0.9	0.7	0.2
27	0.7	2.6	2	1.9	1.3	1.9	0.9	0.4	1.5	1.7	1.7	2	1.9	Cal	Cal	3.1	3	3.5	2.6	1.9	0.7	0.2	0.6	0.2
28	0.4	0.7	0.7	2	3	3.3	2.2	0.7	1.5	2.6	3.3	4.3	5.6	3.3	1.7	2.6	3.3	3.7	3.3	2	0.7	0.2	0.2	0.2
29	0.2	1.3	2.4	2.2	1.7	2	1.7	1.1	2.2	3.2	2.6	2.6	2.6	3	2.6	3.2	2.2	2.8	2.8	2	2.8	0.9	1.1	2.2
30	2.8	2.4	1.9	1.3	0.2	0.4	1.3	2.4	3	3.3	3.5	3.3	2.8	2.6	2.2	1.9	2	0.9	0.9	1.1	1.7	1.9	2.4	3
31	4.1	3	2.6	2.2	2.8	2.6	2.2	2.8	2.4	1.9	2	2.8	2.8	2.2	2.8	1.9	1.9	2	1.1	1.5	0.4	0	0.6	1.7

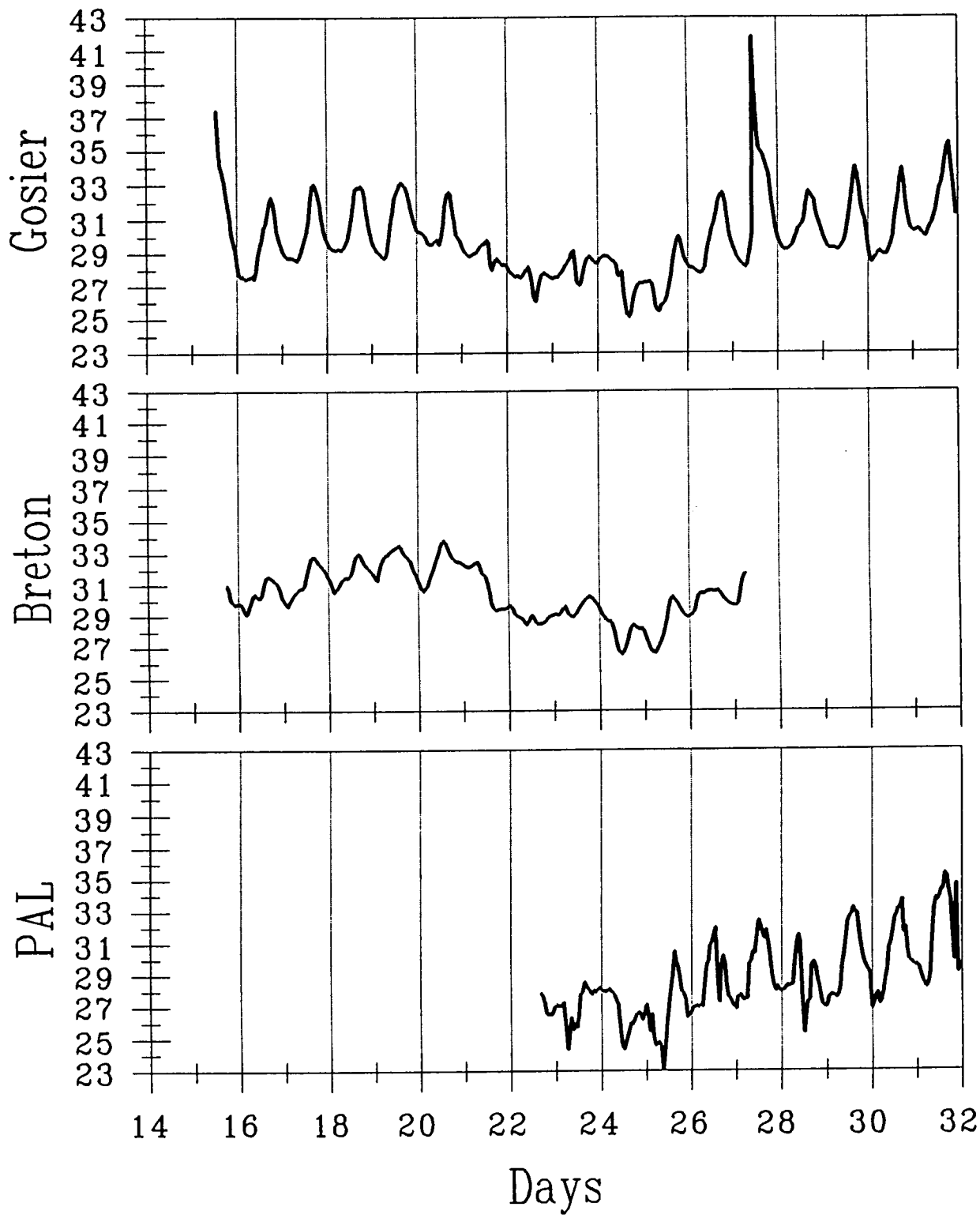
Maximum Wind Speed 9.1 mph on 7/25/93 @ 0900CDT

ESE Station Pass-A-Loutre, Louisiana
 July 1993 Wind Directions in Degrees

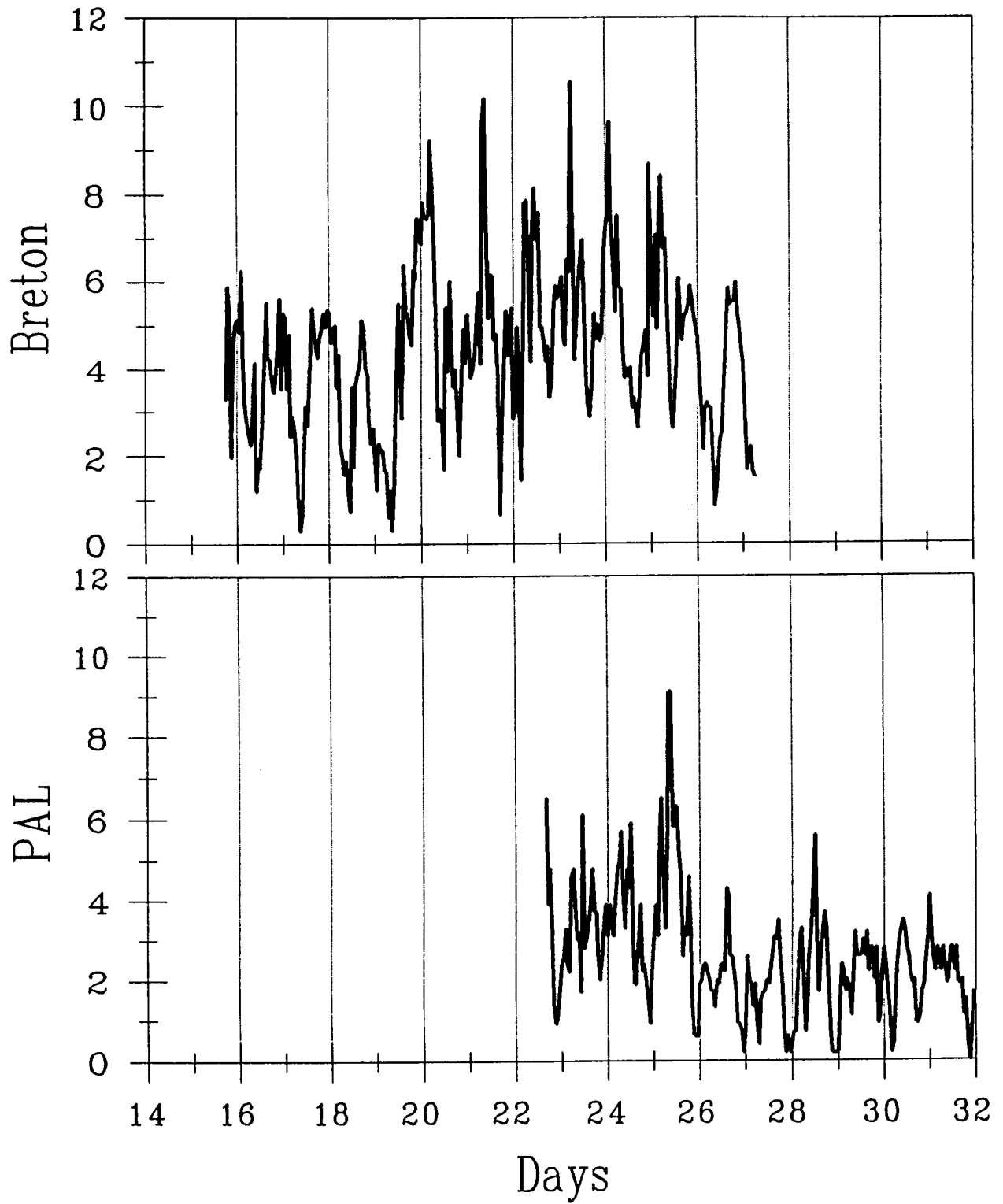
Day	Hour CDT																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	
2	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	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	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	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	290	303	297	303	305	282	247	232
23	239	242	242	245	251	260	297	Cal	253	296	304	306	313	305	281	269	259	253	239	230	241	252	253	258	
24	259	261	254	259	266	275	287	292	305	304	258	226	207	215	224	269	255	247	275	284	254	220	150	185	
25	190	196	212	216	271	264	251	252	266	297	300	285	282	288	279	308	266	242	270	263	237	255	15	135	
26	191	191	190	194	199	220	268	260	286	287	295	303	291	292	121	97	112	118	137	179	172	143	160	117	
27	158	189	194	217	258	264	308	338	203	229	314	300	319	Cal	Cal	113	153	141	140	171	127	131	194	264	
28	168	205	265	248	244	235	254	310	327	336	9	355	295	306	228	221	246	246	278	284	295	28	38	7	
29	157	213	278	271	294	308	315	342	343	334	327	342	330	328	327	306	277	183	249	274	245	239	211	274	
30	337	295	289	306	13	39	344	348	340	353	349	348	331	331	330	355	347	341	305	254	232	221	228	259	
31	275	281	306	327	319	317	315	336	349	10	20	13	34	347	319	335	340	317	324	288	156	337	329	262	



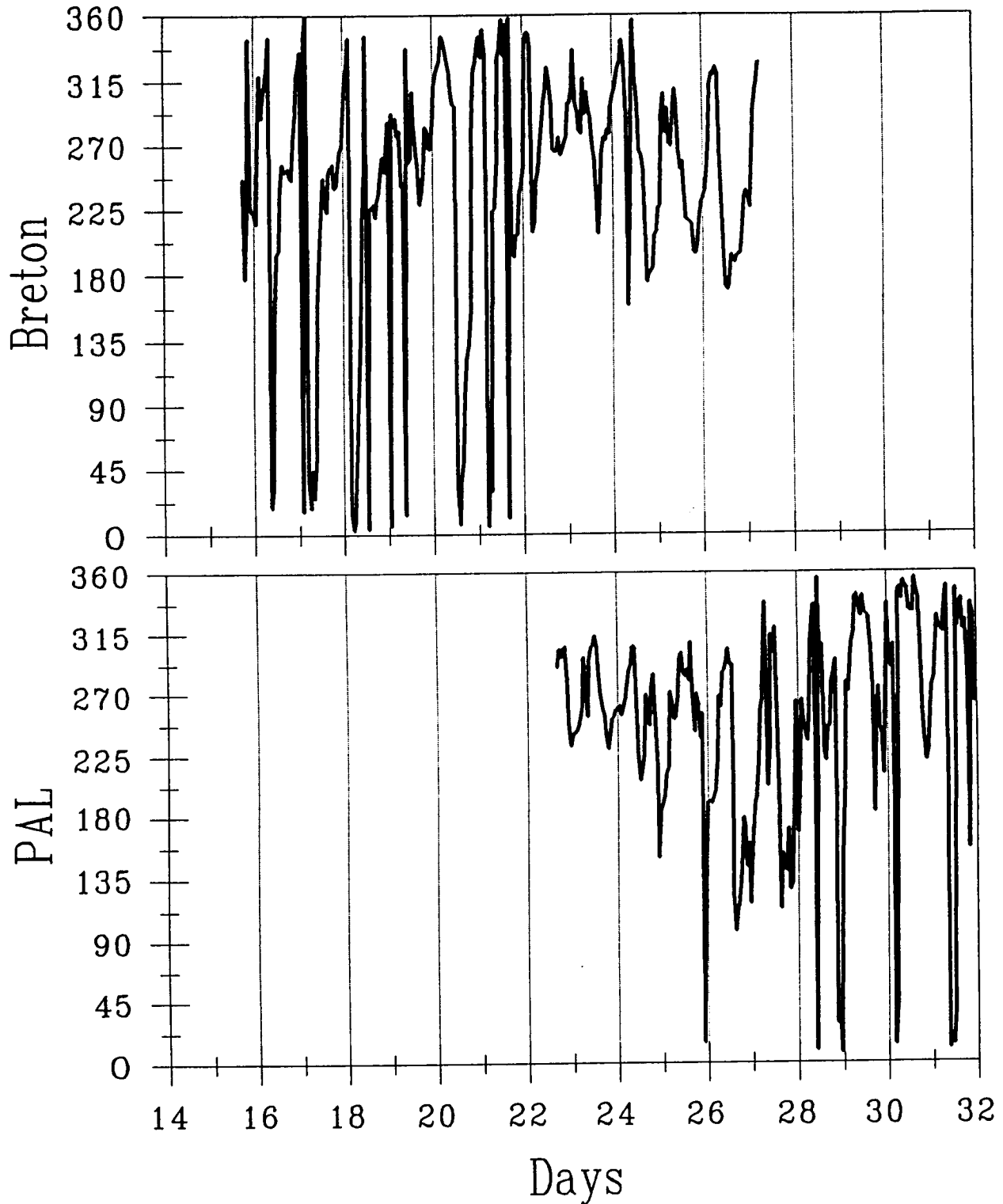
July 1993 Hourly SO₂ Concentration in PPB



July 1993 Air Temperature in °C



July 1993 Wind Speeds in MPH



July 1993 Wind Direction in Degrees Magnetic

APPENDIX B
AUGUST 1993
HOURLY SO₂ AND METEOROLOGICAL DATA

**CSI Station Gosler Island, Louisiana
August 1993 SO2 Concentration in PPB**

Day	Hour CDT																							
	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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	18.8	22.7	25.1	26.1	26.4	27.1	26.7	26.8	25.3	24.3	7.3	10.7	0.0	18.3
2	0.0	0.0	0.0	0.0	0.0	0.0	15.6	6.2	5.3	22.5	14.3	8.2	7.6	11.8	20.6	22.2	20.2	24.4	17.4	9.7	7.4	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	3.8	15.4	26.3	24.4	24.5	22.7	24.0	22.5	22.1	24.0	24.5	21.2	20.5	24.7
4	22.0	20.2	19.8	20.1	20.0	15.6	13.9	11.4	18.5	21.2	23.8	24.8	24.3	23.6	22.4	23.6	23.6	24.7	23.8	24.0	21.7	23.4	23.5	21.0
5	20.3	21.5	21.6	24.6	21.9	18.8	20.0	18.6	21.5	23.7	23.9	22.5	22.8	24.3	23.8	22.9	23.1	24.2	23.3	24.7	23.6	22.8	23.4	23.6
6	24.0	22.5	21.3	24.9	23.9	18.7	17.0	17.6	19.2	21.5	22.1	23.2	22.6	23.8	14.2	18.4	23.6	22.6	21.8	20.4	19.6	20.0	15.5	8.4
7	5.7	35.6	22.1	15.8	20.2	12.1	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	15.7	19.8	19.9	11.7	0.0	0.0	12.5	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	20.6	25.2	24.4	24.1	24.7	24.9	24.8	22.5	23.0	24.3	23.5	23.9	22.4	23.4
9	25.5	24.0	25.2	25.4	26.4	21.7	12.8	13.5	22.1	24.8	23.7	24.2	25.2	25.7	27.0	24.9	25.3	25.1	26.0	26.0	25.3	25.1	26.4	24.9
10	24.7	25.8	25.5	26.2	24.6	24.2	22.0	20.1	24.7	29.1	32.3	28.9	27.5	27.0	26.8	25.5	25.2	26.1	25.9	25.3	24.3	24.2	24.7	23.6
11	25.5	23.5	25.7	24.5	24.5	23.3	23.6	23.7	25.2	23.4	24.2	24.5	24.9	24.7	25.5	24.1	23.9	24.1	26.0	25.1	24.7	22.7	25.2	24.1
12	25.1	25.7	25.6	24.1	24.4	25.8	24.6	23.5	24.2	25.3	24.9	21.8	21.8	22.8	23.5	23.4	22.9	22.0	23.6	22.0	23.1	22.3	23.4	22.1
13	24.1	22.3	23.2	23.7	22.7	20.6	19.4	20.5	22.5	24.6	23.5	24.0	22.4	22.6	22.4	22.3	21.5	22.5	21.7	23.8	22.3	23.1	23.6	22.3
14	22.5	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.9	6.0	14.4	15.6	20.6	17.2	18.7	20.1	6.8	2.0	5.1	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	0.0	2.6	0.0	0.0	6.8	14.8	7.0	3.3	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	7.8	15.9	18.7	20.1	19.9	18.0	14.9	10.2	11.5	14.4	5.1	10.4	3.4	4.7	5.2
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.9	18.7	20.1	19.9	18.0	14.9	10.2	11.5	14.4	5.1	10.4	3.4	4.7	5.2
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	0.0	0.0	0.8	1.1	1.0	1.4	1.4	1.4	1.3	1.1	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.0	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	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.1	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	0.0	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	0.0	0.0	0.0	0.0	0.5	1.0	0.7	0.2	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	0.0	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	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	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	0.0	0.0	0.3	0.6	1.0	0.9	1.0	1.0	0.7	0.1	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	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.1	0.1	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	0.0	0.0	0.0	0.3	0.4	0.6	0.7	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.5	0.6	0.3	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss

Maximum Hourly Concentration SO2 35.6 ppb on 8/7/93 @ 0100CDT

**CSI Station Gosler Island, Louisiana
August 1993 Air Temperatures in Degrees C**

Day	Hour CDT																								
	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	30.7	30.3	30.1	30.0	29.9	29.9	29.9	29.9	30.3	30.8	31.5	32.2	33.0	33.6	34.0	34.4	34.7	35.0	35.0	34.6	33.7	32.8	32.1	30.7	
2	28.8	28.4	28.3	28.4	28.4	28.7	28.9	29.2	29.5	29.9	30.5	30.9	31.2	31.5	32.1	33.1	33.5	32.8	32.4	32.1	31.0	28.9	27.7	27.5	
3	27.8	28.0	28.1	28.3	28.4	28.4	28.5	28.6	28.7	29.1	30.0	31.2	40.4	39.9	37.7	36.3	34.0	32.9	32.5	32.1	31.3	30.7	30.3	29.8	
4	29.6	29.4	29.4	29.4	29.4	29.3	29.2	29.0	29.0	29.7	30.5	31.2	31.7	31.6	31.8	32.0	32.3	32.5	32.6	32.3	31.6	30.9	30.4	30.0	
5	29.8	29.6	29.4	29.2	29.1	28.9	28.8	28.7	28.8	29.3	29.8	30.2	30.8	31.5	31.9	32.4	32.7	32.7	32.2	31.7	31.1	30.5	30.2	30.0	
6	29.9	29.8	29.8	29.7	29.5	29.3	29.1	29.0	29.1	29.6	30.3	30.9	31.3	31.3	30.6	30.0	30.4	30.9	30.8	30.6	30.2	29.8	29.5	29.3	
7	28.4	27.8	27.6	27.4	27.1	27.1	27.1	27.2	27.3	26.7	26.4	26.9	27.6	28.0	28.6	29.3	29.5	29.3	29.1	28.7	28.3	28.1	27.9	27.8	
8	27.6	27.4	27.4	27.3	27.3	27.1	27.0	26.9	27.0	27.7	28.9	30.0	31.0	31.8	32.6	32.8	32.8	32.8	32.9	32.7	31.9	30.8	29.8	29.1	
9	28.8	28.5	28.4	28.2	28.1	28.1	28.1	28.0	28.1	28.6	29.2	29.7	30.1	30.6	31.2	31.7	32.2	32.7	32.6	31.9	31.3	30.7	30.2	29.8	
10	29.5	29.3	29.1	28.9	28.8	28.7	28.7	28.7	28.9	29.3	30.0	30.7	31.2	31.6	32.1	32.5	32.8	33.0	33.0	32.6	31.9	31.1	30.5	30.1	
11	29.9	29.6	29.4	29.2	29.1	29.1	29.1	28.9	29.0	29.3	29.3	28.9	29.3	29.9	30.4	31.1	31.8	32.1	31.8	31.4	31.0	30.4	29.9	29.6	
12	29.4	29.2	29.2	29.2	29.1	28.9	28.7	28.7	28.8	29.4	30.3	35.3	34.5	33.7	33.2	33.0	33.0	33.0	33.0	32.8	32.3	31.6	30.8	30.2	29.8
13	29.6	29.5	29.3	29.1	28.9	28.6	28.4	28.2	28.5	29.4	30.7	32.0	32.8	33.5	34.0	34.3	34.3	34.1	33.7	32.9	32.1	31.1	30.5	30.2	
14	30.0	29.8	29.7	29.6	29.5	29.5	29.5	29.6	29.7	29.8	29.9	30.4	30.8	31.4	32.1	32.4	32.7	32.7	32.7	32.2	31.6	31.0	30.7	30.5	
15	30.4	30.3	30.3	30.2	30.1	30.0	29.9	29.8	29.8	29.9	30.1	30.4	30.9	30.2	28.9	28.5	28.2	28.2	28.4	28.7	28.7	28.5	28.3	28.3	
16	28.2	28.0	27.9	28.0	28.0	28.1	28.1	28.1	28.0	28.3	28.8	29.5	30.4	31.0	31.2	31.3	30.9	30.6	30.4	30.2	30.0	29.9	29.8	29.8	
17	29.6	29.3	29.3	29.3	29.3	29.4	29.5	29.5	29.4	29.5	29.7	30.0	30.1	35.2	35.6	34.9	34.2	33.6	33.1	32.2	31.2	30.5	30.0	5.2	
18	29.6	29.3	29.1	28.9	28.8	28.6	28.5	28.4	28.5	29.0	29.6	30.3	30.8	31.7	32.6	33.3	34.0	34.4	34.4	33.9	32.8	31.7	30.9	30.5	
19	30.3	30.0	29.8	29.9	30.0	30.0	29.9	29.8	29.7	29.9	30.1	30.4	30.7	30.9	30.8	30.4	30.8	30.7	30.6	30.2	28.7	28.4	28.4	28.5	
20	28.5	28.5	28.3	28.2	28.3	28.4	28.4	28.4	28.5	28.6	28.0	26.6	25.5	25.3	25.7	26.1	26.8	27.5	27.8	27.8	27.6	27.4	27.2	27.0	
21	26.8	26.8	26.6	26.3	26.0	25.9	26.0	26.2	26.6	27.0	27.7	28.5	29.1	29.6	30.0	30.4	30.8	31.1	31.0	30.5	29.7	29.2	28.8	28.5	
22	28.2	27.9	27.6	27.4	27.3	27.2	27.3	27.4	27.6	28.2	28.7	29.1	29.6	30.2	30.7	31.1	30.2	29.6	29.9	30.1	29.9	29.6	29.2	29.0	
23	28.8	28.8	28.7	28.6	28.5	28.5	28.4	28.4	28.4	28.6	29.0	29.3	29.7	30.1	30.7	31.5	32.3	32.6	32.6	32.2	31.3	30.4	29.8	29.5	
24	29.3	29.1	29.1	29.0	28.9	28.9	28.7	28.6	28.6	28.7	28.7	28.6	28.6	28.7	29.0	29.6	29.7	29.1	28.6	28.4	28.2	28.2	28.3	28.3	
25	28.4	28.4	28.3	28.3	28.3	28.3	28.2	28.1	28.1	28.3	28.5	28.8	29.0	29.1	29.4	29.6	29.9	30.2	30.3	30.1	29.6	29.2	29.0	28.9	
26	29.0	28.9	28.9	28.8	28.8	28.7	28.7	28.6	28.5	28.8	29.3	28.9	27.5	27.2	27.3	27.7	28.0	28.0	28.5	28.9	28.8	28.3	28.0	27.8	
27	27.6	27.5	27.4	27.2	27.1	27.0	26.9	26.9	27.2	27.8	28.4	29.0	29.4	30.0	30.7	31.4	32.1	32.1	32.1	31.9	31.3	30.5	29.8	29.3	
28	28.9	28.5	28.2	28.2	28.1	28.0	27.5	27.0	26.6	26.7	27.4	28.1	28.8	29.2	29.5	29.8	30.4	31.0	31.4	31.5	31.0	30.0	29.2	28.7	
29	28.4	28.2	28.1	28.0	28.1	28.3	28.2	28.1	28.3	28.5	28.9	29.4	29.8	30.0	30.5	31.3	32.2	32.8	32.7	32.1	31.1	30.3	29.9	29.6	
30	29.3	28.7	28.2	27.9	27.7	27.7	27.8	27.8	27.8	28.0	28.4	28.5	28.7	28.8	29.1	29.4	29.8	30.6	31.2	31.2	30.6	29.8	29.2	28.8	
31	28.6	28.4	28.4	28.3	28.3	28.3	28.3	27.9	27.9	28.2	28.4	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	

B-4

Maximum Hourly Air Temperature 40.4 C on 8/3/93 @ 1200CDT
Minimum Hourly Air Temperature 25.3 C on 8/20/93 @ 1300CDT

**CSI Station Breton Island, Louisiana
August 1993 SO2 Concentration in PPB**

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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	4.4	5.5	6.6	8.2	11.5	11.0	11.4	11.8	12.8	20.2	18.4	19.6	21.3	
4		17.8	19.5	19.2	17.7	19.5	19.8	20.6	25.8	18.4	15.1	10.4	13.4	4.8	0.0	17.5	16.5	17.1	18.7	12.2	13.7	15.8	16.1	18.1	17.0
5		17.1	18.5	16.5	15.9	17.2	17.5	19.1	18.2	20.5	19.4	18.8	18.8	18.7	19.1	19.6	18.0	22.1	21.2	20.7	19.7	19.4	20.1	20.7	21.3
6		25.0	24.0	23.4	24.6	24.4	25.0	24.9	24.8	26.7	25.0	26.4	25.4	24.1	24.5	31.1	35.3	36.7	29.2	31.3	34.2	27.9	27.9	36.0	40.2
7		41.0	37.7	41.1	41.3	39.0	36.8	31.6	35.2	29.8	34.8	35.6	36.3	33.0	35.6	34.9	38.3	38.1	35.8	36.2	37.8	40.6	39.9	41.4	42.0
8		35.3	38.0	37.4	36.7	36.9	35.5	37.0	40.6	36.0	37.5	38.4	40.5	39.3	38.9	42.5	43.8	40.1	40.9	40.4	39.7	37.7	33.8	37.1	41.7
9		35.3	35.3	34.2	35.4	33.3	30.4	37.8	40.9	43.1	43.4	44.1	42.1	40.8	42.7	38.8	48.2	37.3	40.5	38.5	39.0	37.4	37.1	35.9	39.8
10		34.3	35.6	33.6	32.0	29.7	32.0	33.8	33.3	37.5	36.8	37.0	34.8	31.6	30.4	30.4	32.1	35.3	30.8	29.6	30.0	26.8	28.6	25.8	25.3
11		25.4	30.0	29.9	30.3	29.4	30.0	29.8	28.9	32.8	34.9	32.9	35.1	32.6	31.3	28.8	30.2	29.8	32.2	29.8	27.4	29.1	32.0	29.2	28.5
12		31.2	30.9	32.8	29.8	30.6	27.7	29.7	27.4	30.2	32.8	37.7	27.0	2.0	2.4	2.6	1.9	3.7	4.3	5.3	4.4	5.2	6.2	5.5	5.9
13		4.4	3.9	5.1	3.7	4.7	5.2	5.8	6.0	5.5	6.2	6.8	5.4	5.9	5.9	5.8	5.8	5.3	7.0	7.6	6.4	7.5	7.6	6.2	6.3
14		6.4	7.5	7.8	6.5	7.2	6.8	8.4	8.3	11.3	9.0	7.1	8.4	14.0	10.6	8.8	6.9	7.0	7.1	6.6	7.3	8.5	7.5	7.2	7.8
15		7.8	9.3	8.0	11.4	13.3	12.9	9.0	12.1	11.1	12.0	9.3	11.3	7.4	7.6	8.9	7.1	9.2	10.2	7.4	11.5	14.1	8.8	10.4	10.3
16		12.9	11.6	10.4	9.5	10.9	13.4	16.5	15.6	13.3	11.7	12.6	12.1	14.7	17.2	10.6	12.8	16.6	15.4	9.1	9.6	10.5	10.4	9.3	12.7
17		11.8	10.7	9.4	12.5	9.8	9.5	10.3	12.2	12.1	9.4	10.1	9.7	10.0	10.4	9.6	Cal	Cal	7.0	6.8	6.6	7.3	7.3	7.6	7.8
18		5.5	5.9	5.8	5.4	5.4	6.3	16.8	14.3	11.2	12.3	11.5	10.6	9.4	9.6	10.2	8.7	8.8	8.1	7.8	6.6	8.2	9.4	10.8	7.4
19		7.1	7.7	9.8	7.9	8.3	11.6	10.9	7.8	7.2	6.7	8.4	8.3	8.7	7.5	5.4	5.9	5.2	6.2	6.8	6.9	9.0	9.6	6.6	5.8
20		5.5	4.6	7.3	5.7	7.6	4.3	5.0	5.6	7.2	7.2	7.5	9.2	5.9	6.4	9.1	8.3	8.9	9.4	8.1	10.8	8.4	7.1	6.5	6.7
21		5.8	5.1	6.4	7.8	7.3	7.5	7.7	12.2	11.9	12.4	13.0	10.3	9.2	9.6	8.5	9.2	7.4	9.0	9.1	7.8	7.4	8.0	9.5	14.1
22		11.3	9.1	11.0	9.2	8.3	10.1	13.5	13.4	9.0	8.8	10.7	10.5	9.7	7.0	7.0	6.2	8.1	7.1	8.6	7.9	8.9	8.8	8.7	7.6
23		6.9	9.0	11.3	9.2	14.2	12.4	11.2	12.2	9.1	9.5	11.3	10.0	9.5	10.5	11.5	9.6	9.6	10.1	11.5	9.2	10.8	10.9	11.5	11.2
24		10.7	15.0	14.3	9.3	9.1	10.4	9.9	11.8	11.9	11.7	12.8	11.2	10.0	8.9	10.4	9.4	9.5	11.4	8.9	8.8	10.2	7.1	7.7	8.2
25		7.1	8.4	7.5	7.5	6.7	6.0	7.6	8.0	11.8	12.3	11.1	10.6	10.4	8.8	9.0	9.6	10.9	9.7	9.0	10.2	11.8	11.5	11.4	12.6
26		14.1	12.5	12.1	12.2	11.4	11.7	11.7	13.2	14.6	12.1	Cal	Cal	Cal	Cal	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	1.4	2.6	1.0	0.0	0.4
28		0.0	0.0	1.3	0.1	0.1	0.1	0.2	3.9	1.0	0.5	0.3	0.6	0.5	1.3	1.3	1.7	1.9	2.1	0.8	0.5	0.0	0.1	5.4	1.4
29		0.9	5.5	10.6	0.8	0.1	0.4	0.9	0.9	3.9	3.9	4.3	2.8	3.1	1.6	1.3	1.1	1.3	6.5	1.9	1.4	0.5	6.0	3.4	0.9
30		0.9	0.5	0.4	1.0	0.7	0.2	0.2	2.0	17.6	12.6	7.9	3.7	2.9	1.5	2.9	3.4	3.3	2.8	1.9	1.5	2.0	1.6	0.7	0.7
31		0.4	0.8	1.8	1.0	0.9	1.6	2.3	14.1	19.4	10.3	13.4	3.8	6.4	Cal	Cal	1.7	1.6	0.5	2.0	4.6	7.7	3.9	1.3	2.1

B-5

Maximum Hourly Concentration SO2 48.2 ppb on 8/9/93 @ 1500 CDT

**CSI Station Breton Island, Louisiana
August 1993 Air Temperatures Degrees C**

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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	33.1	34.0	34.7	34.9	33.6	33.1	33.4	33.8	33.9	34.0	34.0	32.9	32.2
4		32.3	32.5	32.6	32.5	32.3	32.3	32.3	32.5	33.0	33.5	33.8	34.1	34.2	33.8	33.6	34.0	34.5	35.0	34.9	34.2	33.8	33.5	33.3	33.0
5		32.4	31.9	31.9	31.8	31.7	31.7	31.7	31.8	32.0	31.9	31.5	31.6	31.9	32.2	32.4	32.5	32.8	32.8	33.0	33.2	32.9	32.5	32.0	31.7
6		31.5	31.3	31.2	31.2	31.2	31.3	31.2	31.2	31.1	31.1	31.3	31.5	31.6	32.1	32.5	32.7	32.4	32.2	32.1	32.0	32.0	31.8	31.7	31.4
7		30.4	29.8	29.6	29.7	30.2	30.4	30.5	30.5	30.1	29.6	29.4	29.5	29.9	30.4	31.0	31.1	30.9	30.9	31.0	30.9	30.6	30.5	30.2	30.0
8		30.0	29.9	29.9	29.9	29.8	29.7	29.9	29.9	30.2	30.7	31.5	32.2	32.3	32.2	32.1	31.9	31.9	32.0	32.0	32.0	31.9	31.5	31.3	31.3
9		31.3	31.4	31.6	31.9	31.9	31.6	31.3	31.1	31.3	31.6	31.9	32.3	32.4	32.5	32.3	32.2	32.3	32.4	32.5	32.6	32.9	33.1	32.9	32.6
10		32.3	32.2	32.1	32.2	32.4	32.3	32.4	32.3	31.9	31.6	31.8	31.9	31.9	31.9	31.9	31.8	32.1	32.3	33.1	34.2	35.0	35.4	35.6	35.6
11		35.5	35.6	35.6	35.7	35.9	35.9	35.9	35.9	36.1	36.6	36.9	36.6	36.4	36.4	36.5	36.6	36.7	36.7	36.7	36.6	36.5	36.5	36.4	36.2
12		35.9	35.7	35.7	35.6	35.5	35.5	35.5	35.6	35.9	36.3	37.0	37.3	34.7	33.9	33.6	33.4	33.2	33.1	32.8	32.5	32.3	32.1	32.0	31.9
13		32.0	32.2	32.2	32.2	32.4	32.6	32.8	32.8	32.7	32.6	32.8	33.0	33.5	33.9	34.2	34.1	33.9	33.6	33.5	33.4	33.3	33.3	33.4	33.6
14		33.6	33.6	33.5	33.5	33.5	33.5	33.5	33.5	33.4	33.3	33.5	33.8	34.4	35.1	35.5	35.7	35.7	35.7	35.5	35.1	34.8	34.4	34.1	34.0
15		34.1	34.1	34.1	34.1	34.2	34.2	34.1	33.8	33.7	33.8	34.0	34.4	34.2	32.7	31.8	31.7	31.8	31.9	32.1	32.3	32.5	32.5	32.5	32.5
16		32.1	31.9	31.9	32.1	32.2	32.1	32.1	32.3	32.5	32.9	33.5	34.0	34.5	34.8	34.7	34.4	34.2	34.0	33.9	33.8	33.8	33.8	33.8	33.5
17		33.4	33.3	33.1	33.0	32.7	32.5	32.3	32.1	32.0	31.9	32.1	32.2	32.4	32.5	32.4	Cal	Cal	32.8	33.0	32.9	33.0	33.3	33.3	33.3
18		33.1	33.2	33.3	33.3	33.3	33.2	33.1	33.0	33.1	33.3	33.5	33.8	34.0	34.1	34.1	34.1	34.2	34.2	34.3	34.2	34.1	34.1	34.0	34.0
19		33.8	33.8	33.9	34.0	34.1	34.0	33.9	33.8	33.8	33.8	33.7	33.9	34.2	34.3	33.3	32.4	32.1	32.2	32.5	32.3	31.4	31.2	31.5	31.8
20		32.0	32.1	32.0	32.0	32.1	32.0	31.9	31.8	31.8	31.4	30.8	30.3	29.7	29.4	29.4	29.3	29.8	30.5	31.0	31.3	31.3	31.2	31.0	30.9
21		30.8	30.7	30.4	30.3	30.2	30.2	30.3	30.6	31.0	31.7	32.4	32.9	33.0	33.0	32.8	32.6	32.5	32.5	32.4	32.3	32.3	32.2	32.1	32.0
22		32.1	32.0	32.0	31.9	31.7	31.6	31.6	31.7	32.1	32.7	33.1	33.3	33.6	33.9	34.2	34.3	33.9	33.8	34.0	34.0	33.7	33.4	33.6	33.9
23		33.6	33.3	33.2	33.1	33.1	33.1	33.0	32.8	32.9	33.0	32.9	32.9	33.0	33.3	34.0	34.6	34.9	35.0	34.9	34.7	34.3	33.9	33.8	33.8
24		33.9	34.0	33.9	33.6	33.2	32.7	32.3	32.0	32.1	32.3	32.3	32.1	32.1	32.3	32.6	32.7	32.2	31.7	31.7	31.9	32.2	32.3	32.0	31.7
25		31.6	31.7	31.7	31.7	31.8	31.6	31.4	31.3	31.2	31.3	31.5	31.6	31.7	31.7	31.8	31.6	31.3	31.0	30.8	30.8	30.8	30.8	30.8	30.7
26		30.7	30.7	30.7	30.7	30.6	30.4	30.4	30.4	30.6	30.8	Cal	Cal	Cal	Cal	29.2	29.0	29.1	29.1	29.3	29.4	29.4	29.3	29.3	29.3
27		29.2	29.2	29.1	29.1	29.0	29.0	29.0	29.0	29.4	29.7	29.9	30.0	30.0	30.1	30.2	30.4	30.7	31.1	31.6	31.8	31.9	31.9	31.6	31.4
28		31.0	30.8	30.7	30.6	30.5	29.9	29.4	29.0	29.0	29.2	29.4	29.7	30.0	30.3	30.5	30.6	30.6	30.6	30.6	30.6	30.5	30.6	30.9	31.2
29		31.3	31.4	31.4	31.4	31.2	31.0	30.4	30.1	30.4	30.7	31.0	31.2	31.4	31.5	31.6	31.6	31.7	32.1	32.4	32.4	32.2	32.0	31.9	31.7
30		31.3	30.9	30.6	30.4	30.4	30.5	30.4	30.3	30.4	30.6	30.8	30.8	30.8	30.8	30.8	30.8	30.9	31.1	31.2	31.1	31.1	31.0	30.9	30.7
31		30.6	30.5	30.4	30.3	30.3	30.2	30.1	30.0	29.9	30.0	30.1	30.1	30.3	Cal	Cal	30.6	30.6	30.5	30.6	30.6	30.6	30.7	30.7	30.7

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Maximum Hourly Air Temperature 37.3 C on 8/12/93 @ 1100CDT

Minimum Hourly Air Temperature 29.0 C on 8/26/93 @ 1500CDT and on 8/27/93 @ 0400-0700CDT

**CSI Station Breton Island, Louisiana
August 1993 Wind Speeds in MPH**

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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	0.4	1.0	0.4	3.9	1.9	1.9	1.9	0.9	1.2	3.5	3.3	3.1	1.8	
4		3.1	4.1	4.9	6.0	4.2	3.8	3.5	3.5	2.9	3.3	3.4	6.6	3.8	5.1	4.3	3.0	3.7	4.7	5.5	4.1	4.4	3.5	4.1	6.0
5		6.2	5.2	6.0	5.8	5.3	4.8	3.6	2.8	4.7	5.7	3.6	3.7	3.7	5.8	6.2	6.3	7.0	6.6	5.3	5.8	6.2	6.7	7.6	7.3
6		7.5	7.1	6.7	6.7	6.6	4.7	4.4	5.0	5.2	5.1	7.5	7.8	5.2	4.6	3.7	7.8	7.0	6.2	5.7	2.3	3.3	2.2	2.4	4.3
7		5.3	8.6	6.1	4.1	4.2	3.9	5.7	5.7	4.7	4.1	5.3	6.2	4.4	3.3	6.7	8.7	6.4	5.8	4.6	1.9	1.8	2.7	2.1	3.3
8		3.0	2.3	2.5	2.5	2.8	2.7	1.6	1.2	1.4	0.6	0.6	0.6	1.6	2.0	2.3	2.3	2.3	1.9	1.8	1.6	2.7	2.7	2.2	1.9
9		1.2	0.1	0.3	1.1	1.9	2.2	2.1	2.0	3.1	3.9	3.9	3.4	2.8	2.8	2.5	1.5	2.1	2.1	2.0	0.7	0.3	1.3	1.5	1.4
10		1.1	1.1	0.5	0.7	1.6	1.2	2.1	2.2	3.4	3.5	3.1	3.2	3.6	3.8	3.5	2.3	2.9	3.1	3.5	3.0	4.1	3.6	3.8	3.2
11		1.9	2.4	2.0	1.8	1.3	1.1	1.5	1.8	1.6	1.3	7.5	4.4	4.3	4.2	3.0	3.2	4.0	3.1	4.5	2.4	1.7	3.8	4.5	5.4
12		4.4	3.6	5.1	4.3	3.2	3.5	2.7	2.9	1.0	1.3	2.4	3.9	1.9	3.9	2.5	4.9	4.4	5.7	6.1	5.0	4.3	4.2	4.4	3.5
13		3.9	4.2	4.4	3.7	2.4	1.8	1.5	0.4	1.4	1.4	1.6	0.4	1.2	1.5	1.0	2.1	2.6	3.1	3.7	4.4	5.6	5.5	5.2	5.6
14		5.9	6.2	6.0	5.8	5.6	7.2	6.8	6.8	6.6	6.0	6.1	4.8	4.2	4.6	3.6	3.8	5.2	6.9	7.3	7.2	7.7	7.3	6.8	8.0
15		8.8	8.9	8.3	7.6	7.5	7.7	7.0	6.7	7.8	7.9	7.6	6.1	14.8	14.0	13.7	14.1	9.7	7.7	6.4	4.6	3.4	3.7	4.8	5.7
16		4.3	2.7	3.3	3.8	3.4	3.5	4.1	3.1	2.4	1.6	1.7	3.1	3.9	5.2	9.7	10.2	8.3	6.4	5.6	3.9	3.3	0.9	0.7	1.9
17		3.0	2.9	2.5	3.0	3.0	3.8	4.5	4.5	3.6	5.0	6.0	5.7	4.1	2.8	0.9	Cal	Cal	3.6	2.9	2.0	1.8	2.2	1.7	1.2
18		1.4	1.5	0.8	0.7	1.2	1.7	2.5	2.1	2.0	2.8	3.4	2.8	2.3	2.0	0.9	0.7	1.2	2.1	3.5	3.6	4.1	4.5	4.7	5.0
19		4.4	4.8	5.0	5.1	5.4	5.6	5.5	6.5	7.4	6.2	6.2	4.2	3.0	6.4	6.2	6.8	7.2	5.8	5.0	13.7	13.1	5.1	1.9	2.5
20		4.7	4.7	3.8	5.3	7.3	6.3	6.3	4.6	6.2	8.9	9.2	3.2	5.9	7.8	9.8	8.8	7.4	7.8	7.9	7.3	7.1	5.3	3.7	2.4
21		0.8	1.5	4.9	5.0	4.8	6.1	6.5	6.0	4.5	2.9	2.6	2.7	1.3	2.8	4.6	5.3	6.6	8.8	9.4	9.9	8.8	7.9	7.7	6.6
22		6.0	5.2	5.9	6.3	6.4	6.1	6.1	6.8	6.5	6.0	5.3	4.4	4.8	5.4	6.3	5.3	3.5	5.4	5.6	7.5	7.2	6.9	6.4	5.8
23		6.3	6.4	6.4	7.2	6.4	6.8	6.9	6.4	7.1	6.9	6.6	6.1	5.1	3.5	2.5	1.6	2.1	4.6	5.5	7.2	7.8	8.0	7.8	7.5
24		8.0	8.0	8.6	9.2	9.5	9.3	8.4	7.3	7.3	7.7	7.1	5.9	4.3	3.1	0.5	4.5	6.4	5.2	4.3	3.5	2.7	4.2	1.6	4.2
25		4.5	4.5	4.4	4.5	4.9	5.1	4.8	6.8	8.3	8.9	9.2	8.9	9.3	9.1	8.6	8.3	4.1	6.0	5.6	8.6	7.9	7.2	7.2	6.9
26		6.6	6.8	6.6	6.3	6.2	4.9	6.9	6.7	5.2	5.3	Cal	Cal	Cal	Cal	4.1	4.9	4.8	4.8	4.1	2.5	3.3	2.9	2.9	3.5
27		2.8	1.9	1.3	1.2	0.2	0.2	1.8	1.5	2.4	3.9	3.5	2.3	1.8	1.2	0.3	1.1	2.0	1.0	1.4	0.9	0.7	3.6	1.7	1.3
28		1.9	3.0	4.2	6.0	7.9	7.2	5.4	4.0	4.1	6.4	4.7	4.9	4.8	4.4	3.7	0.7	2.7	2.4	2.3	2.6	2.7	2.7	3.0	3.2
29		3.5	3.9	4.5	5.6	6.5	5.4	4.3	6.3	6.1	5.5	4.9	4.0	4.4	3.0	1.0	1.1	3.4	4.3	6.3	6.2	7.1	6.5	6.5	6.7
30		6.4	3.4	0.6	0.6	2.6	3.6	3.8	4.8	4.4	4.8	5.4	5.3	5.7	5.2	4.2	2.8	0.6	1.3	1.6	0.1	0.3	1.3	3.3	3.2
31		3.1	2.6	1.9	3.9	3.2	3.1	5.5	7.5	7.1	6.1	7.6	8.0	7.2	Cal	Cal	4.3	3.4	3.8	2.2	1.2	0.8	2.1	2.6	3.4

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Maximum Speed 14.8 mph on 8/15/93 @ 1200 CDT

**CSI Station Breton Island, Louisiana
August 1993 Wind Direction in Degrees**

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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	186	194	241	103	139	195	188	0	337	224	168	48	171
4		195	185	182	177	181	198	202	196	189	198	204	220	253	252	248	217	225	215	216	219	212	219	216	198
5		198	212	214	214	212	212	219	212	220	211	202	201	216	209	217	212	211	222	225	215	208	196	193	200
6		198	199	204	208	209	195	199	195	196	197	213	207	259	274	225	210	210	204	201	195	180	199	210	191
7		168	199	200	218	206	199	223	189	151	174	230	236	239	222	231	240	245	227	212	187	226	177	151	139
8		150	148	145	149	181	201	207	205	211	277	298	99	92	112	93	101	103	111	99	115	103	106	104	88
9		97	73	32	15	13	6	12	17	14	15	23	54	55	94	101	98	100	97	124	133	108	80	98	120
10		118	103	74	2	4	339	0	86	84	84	82	90	86	86	87	86	82	66	72	96	106	119	125	118
11		119	118	127	119	129	63	34	29	53	52	26	61	63	66	80	81	96	105	117	137	122	106	113	120
12		114	145	141	128	119	134	133	146	142	53	94	93	184	116	144	129	141	155	164	165	165	166	166	185
13		196	192	199	217	204	226	228	176	177	208	206	188	30	35	135	172	177	189	195	211	223	231	232	231
14		226	229	228	230	236	248	271	315	315	321	319	313	288	276	255	235	252	259	246	246	234	228	230	250
15		259	258	267	280	292	293	311	306	315	315	318	280	231	231	249	260	271	282	258	273	257	234	290	333
16		348	350	324	329	343	313	274	307	346	334	291	259	275	280	268	279	284	294	308	315	309	318	209	272
17		323	339	342	354	2	4	12	25	67	49	54	65	69	32	69	Cal	Cal	130	141	143	126	135	136	177
18		229	240	252	243	236	256	284	301	349	354	1	16	40	41	38	173	177	200	206	211	222	225	231	228
19		230	259	274	273	274	288	297	305	311	336	332	345	350	159	153	210	234	243	237	54	23	7	344	228
20		221	229	266	320	327	338	339	336	205	196	251	245	333	273	230	235	245	275	269	278	307	336	347	349
21		357	201	226	234	231	248	261	283	296	292	280	265	267	222	221	220	215	218	224	243	251	250	264	289
22		281	259	263	259	256	251	278	282	277	298	302	293	265	258	249	314	307	262	258	245	250	256	253	248
23		255	251	269	273	287	299	304	296	310	317	325	327	325	294	281	235	230	224	225	228	242	246	254	264
24		275	287	297	310	318	330	339	347	357	7	10	17	23	20	102	207	210	237	253	262	323	53	103	53
25		35	30	25	41	46	55	63	64	69	71	74	71	73	75	81	81	24	192	108	102	98	97	88	89
26		93	84	86	83	85	90	96	95	111	94	Cal	Cal	Cal	Cal	123	99	124	141	163	157	136	130	122	156
27		151	148	176	144	168	112	43	30	34	36	45	349	31	29	162	155	200	244	210	238	336	11	48	66
28		163	182	285	323	347	347	316	253	341	20	23	23	38	43	42	146	120	113	135	163	186	210	233	231
29		231	241	271	309	316	328	330	332	344	356	355	355	15	21	16	170	215	239	237	254	262	281	315	355
30		42	65	172	217	336	357	353	343	350	3	12	21	28	31	43	56	37	86	70	229	84	77	81	84
31		55	49	34	342	359	4	16	30	26	0	27	39	36	Cal	Cal	60	71	81	71	97	47	21	10	3

**ESE Station Pass-A-Loutre, Louisiana
August 1993 SO2 Concentration in PPB**

Day	Hour CDT																							
	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	1	1	1	5	3	4	3	2	3	4	4	4	3	3	2	1	1	1	2	0
2	0	0	0	0	0	0	1	1	1	1	2	2	3	2	2	2	1	2	2	1	0	0	0	0
3	4	1	0	0	0	0	0	0	0	1	2	3	1	Cal	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	2	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	0	0	0	0	0	0	1	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	1	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	2
14	1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	1	1	1	1	0	2	1
15	1	0	1	0	0	0	0	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	0	0
16	4	2	1	0	0	0	2	1	1	2	0	1	1	1	0	0	0	0	0	1	1	1	1	1
17	2	4	4	4	2	1	1	2	2	2	3	5	6	11	7	3	2	1	1	0	0	0	0	0
18	0	0	0	0	0	0	0	0	1	2	4	3	3	4	Cal	Cal	2	1	1	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
20	0	1	2	0	0	0	0	0	0	1	1	1	2	1	1	1	2	1	2	3	2	1	3	2
21	4	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	2	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	2	3	2	3	2	2	1	1	1	1	3	9	5	3	2	2
25	1	1	1	1	1	2	2	2	2	3	9	8	4	3	2	2	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Cal	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	1
29	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	0	1	2	0	0	1	0
30	1	1	1	2	2	1	1	1	2	4	3	4	2	2	2	2	1	1	1	1	0	0	0	0
31	0	0	1	2	2	1	0	0	1	8	6	5	6	3	2	Cal	1	3	4	1	1	1	1	2

Maximum Hourly Concentration SO2 11 ppb on 8/17/93 @ 1300CDT

**ESE Station Pass-A-Loutre, Louisiana
August 1993 Air Temperatures in Degrees C**

Day	Hour CDT																								
	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	29.3	28.7	28.6	28.7	28.4	28.2	28.3	29.3	30.8	32.0	33.4	33.8	34.2	34.1	33.3	33.7	33.3	32.7	31.8	30.8	30.1	30.0	29.7	28.4	
2	26.6	26.6	26.8	26.7	26.7	27.0	27.1	28.2	29.6	30.8	31.7	32.3	33.1	31.9	32.1	31.3	31.3	31.1	30.2	29.4	28.7	27.9	27.0	26.7	
3	27.2	26.7	26.9	26.5	26.6	26.7	26.7	27.7	29.1	31.0	31.8	32.1	32.1	31.4	31.6	32.4	31.4	31.2	30.4	29.8	29.4	28.8	29.0	27.9	
4	27.1	26.8	26.8	27.2	27.3	27.0	27.1	27.7	30.5	30.6	28.8	31.5	31.6	31.6	31.3	31.4	31.2	30.8	30.2	29.4	29.1	28.4	28.0	27.9	
5	28.2	27.8	27.3	27.8	27.1	26.7	27.1	25.7	28.4	30.8	31.3	31.2	31.5	31.5	31.4	31.3	30.7	30.2	30.1	29.6	29.1	28.7	28.7	28.6	
6	28.5	28.6	28.6	28.3	28.3	28.2	27.8	29.0	29.7	30.3	30.4	30.8	31.1	30.9	30.9	30.0	30.9	29.3	29.4	28.8	28.6	28.0	27.3	25.7	
7	26.2	26.6	27.0	27.2	27.2	27.3	28.1	26.3	25.0	25.8	26.3	27.7	28.2	29.7	29.3	27.6	27.8	28.1	27.9	26.8	26.4	26.4	26.6	26.9	
8	26.7	26.6	26.6	26.2	26.4	26.2	26.7	28.9	29.9	30.6	31.1	31.4	31.9	31.7	31.3	31.7	32.0	31.5	29.6	28.5	27.7	27.4	26.8	26.2	
9	26.4	26.1	25.9	25.9	26.1	26.1	26.2	28.1	29.9	31.3	31.7	32.7	32.7	32.7	33.7	33.3	32.4	30.2	29.4	28.5	27.5	27.6	27.2	26.7	
10	26.7	26.4	26.3	26.4	26.1	25.9	25.8	28.1	30.5	31.7	32.3	32.2	31.6	32.7	32.9	33.1	32.5	31.7	30.7	28.9	28.2	28.0	27.6	27.5	
11	26.9	26.5	26.4	26.4	26.9	26.8	26.7	28.1	30.8	30.5	31.6	27.2	24.3	28.7	32.2	30.1	30.7	30.2	30.1	28.5	27.5	27.7	27.5	27.1	
12	27.2	27.4	27.0	26.7	26.5	26.7	26.9	27.8	29.7	30.6	30.9	30.9	30.7	30.9	30.8	30.8	30.7	29.9	29.6	28.6	27.6	27.4	27.3	27.2	
13	26.9	27.0	27.0	27.3	26.6	26.3	26.6	28.7	29.7	31.2	30.6	31.2	31.8	32.7	31.1	30.2	30.6	30.4	29.8	29.3	29.1	28.8	28.6	28.4	
14	28.5	28.4	28.2	28.2	28.2	28.0	28.2	28.8	29.5	29.9	30.4	30.2	31.4	31.3	31.7	31.4	31.2	30.9	30.4	29.6	29.0	28.9	28.7	28.7	
15	28.6	28.6	28.4	28.6	28.8	28.6	27.3	26.6	28.8	28.3	25.9	24.7	24.9	25.4	26.6	27.6	26.9	27.3	27.1	27.7	27.5	27.8	27.9	27.4	
16	26.8	26.1	25.4	25.6	25.6	26.2	26.5	26.4	27.7	28.9	27.6	29.2	29.6	29.0	29.2	29.3	29.5	29.6	29.2	28.3	28.1	27.9	27.6	27.2	
17	27.0	27.2	26.8	26.6	26.6	26.5	26.7	27.6	29.4	30.4	30.9	31.4	31.5	31.9	31.7	31.4	31.2	30.8	30.3	28.9	27.8	27.4	27.0	26.8	
18	26.8	26.7	26.4	26.2	26.2	25.9	26.2	27.3	29.6	30.9	32.2	32.6	34.1	34.2	30.6	33.8	33.6	31.9	30.5	28.9	28.3	28.2	28.2	28.3	
19	28.2	27.9	28.0	28.0	27.8	27.7	27.4	28.3	29.6	30.3	30.1	29.6	26.9	18.2	23.9	26.1	26.9	28.2	27.8	26.2	26.2	26.6	25.9	26.4	
20	26.4	26.6	26.4	26.3	26.6	26.6	25.6	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	26.9	26.9	25.5	24.7	26.0	25.7	25.4	25.2	25.6	25.5
27	25.4	25.5	25.4	25.4	25.6	25.8	25.8	27.3	29.2	30.3	31.0	30.3	29.4	27.6	29.3	30.1	30.4	30.1	29.6	28.1	27.2	26.9	26.8	26.4	
28	26.6	27.1	26.6	24.8	25.2	24.5	24.7	24.9	25.2	26.5	28.4	29.8	31.1	31.4	30.8	31.2	29.9	28.7	28.2	27.2	26.7	27.1	26.9	27.4	
29	27.4	27.3	27.2	27.1	27.2	26.9	26.5	27.1	28.3	29.7	30.9	31.4	32.3	32.3	32.6	31.6	28.4	27.2	27.9	27.7	28.1	28.2	27.9	27.6	
30	26.9	26.5	26.7	26.3	26.2	26.7	26.6	27.1	27.8	28.1	29.3	30.6	30.4	31.2	31.9	31.7	31.3	30.7	29.1	27.9	26.9	26.1	25.9	26.0	
31	26.1	26.3	26.3	26.5	26.5	26.6	26.6	26.9	27.2	28.1	29.4	28.9	28.2	29.8	30.8	30.6	30.7	29.4	28.8	27.3	26.9	27.1	27.2	27.1	

B-10

Maximum Hourly Air Temperature 34.2 C on 8/1/93 @ 1200CDT
Minimum Hourly Air Temperature 18.2 C on 8/19/93 @ 1300CDT

ESE Station Pass-A-Loutre, Louisiana
August 1993 Wind Speeds in MPH

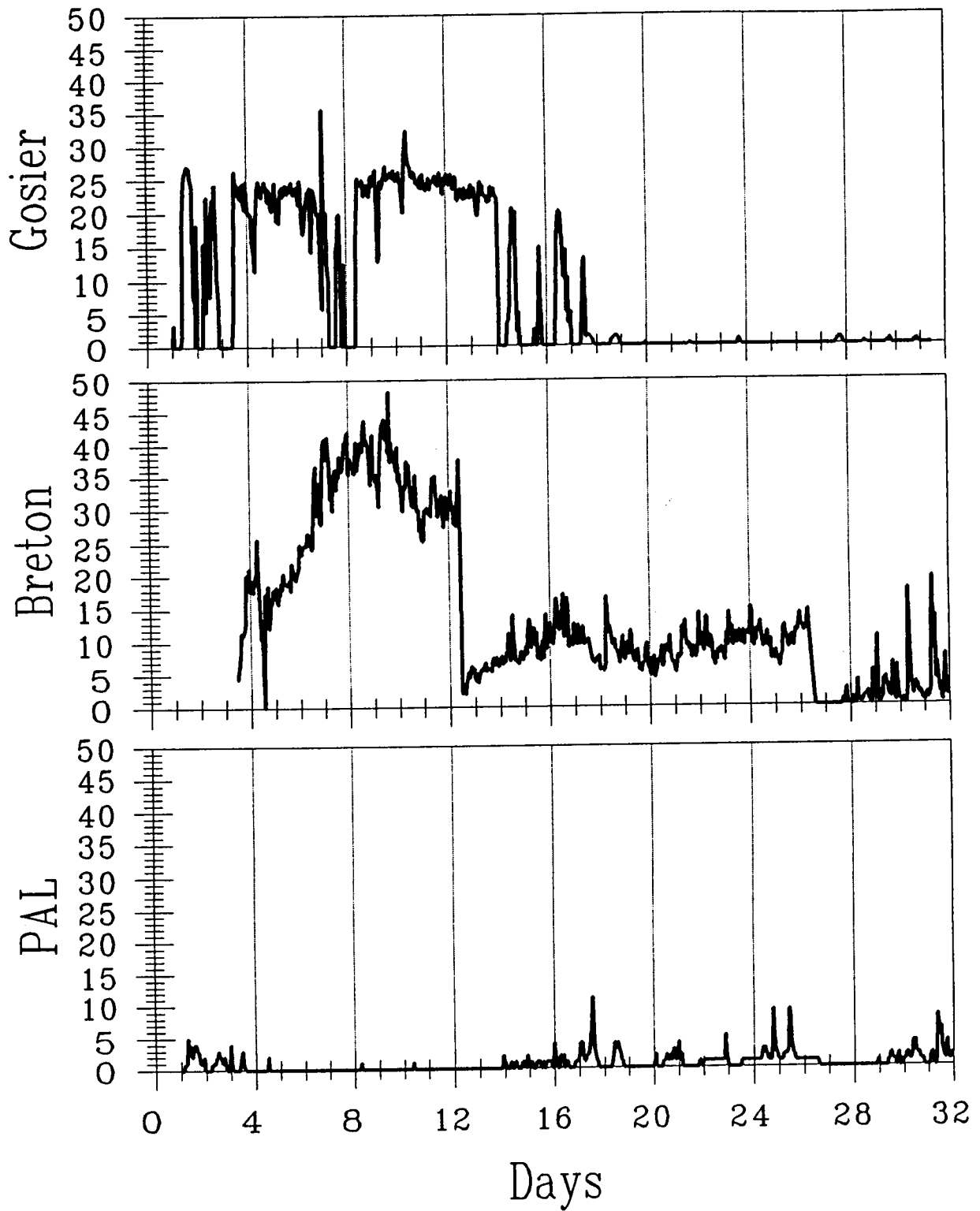
Day	Hour CDT																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.9	0.4	0.9	2	1.7	1.9	2.6	2.2	2.4	2.4	2.2	2.8	2.8	3.2	3.9	3.3	3.3	3.7	4.1	2.6	2.8	2.4	2.6	3.2
2	3.3	1.3	0.7	0.2	0.2	0.6	0.9	2	2.6	2.8	3.3	3.2	2.2	1.3	0.9	1.5	2.2	2	1.5	0.2	0.2	1.3	3.3	2.4
3	1.1	0.6	0	0.2	0.2	0	0.2	0.6	1.1	1.5	1.5	3.2	3.3	4.3	3.7	1.7	3.7	3.5	3.2	2.8	1.7	0.4	1.9	0.9
4	1.3	1.3	2.4	1.3	0.7	0.6	0.6	0.6	1.1	2.8	5.4	2.8	3.9	3.3	3.9	4.3	4.1	4.1	3.5	2.2	1.7	1.1	0.6	1.3
5	2.4	1.7	0.4	1.7	0.4	0.4	0.6	4.3	2.6	1.3	2	3	3.9	4.3	4.3	4.6	4.4	4.1	3.3	2.4	2.6	2.2	3	3.2
6	3.5	4.3	3.9	3.7	3.7	3.7	1.9	2.8	5	5.6	6.7	6.1	6.5	6.3	6.3	6.5	5.6	7.2	3.5	1.9	1.3	2.4	2.4	3.9
7	7.1	5	3.5	2.2	3.2	4.5	5.4	6.5	6.5	6.9	3.3	3.3	2	1.9	4.1	4.3	4.1	3.5	1.3	1.3	0.2	0.7	2	1.5
8	1.3	0.4	0.9	0.6	0.2	0.4	0.2	0.2	1.9	2.2	2.2	2	2.4	2.6	2.6	2.8	2.4	1.5	2.4	1.3	1.3	1.3	0	0.2
9	0	0	0	0	0.4	0.2	0.2	0.4	1.9	2	2.6	2.6	2.6	3	2	2.6	2.6	3.2	2.4	1.3	0	0.2	0	0
10	0	0.2	0.2	0	0	0.2	0.2	0.2	0.9	1.3	1.5	2.6	3.7	2.6	2.8	2.8	3.3	3.2	2.4	1.1	1.1	1.5	0.2	0.2
11	0.2	0	0	0.2	0.6	0	0.4	0.6	0.9	2.4	2.6	3.5	6.1	1.5	1.7	2.6	3.9	4.3	3	1.7	0.4	2	2	1.1
12	1.9	1.5	0.9	0.2	0.2	0.2	0.2	1.5	0.9	2.2	3.3	4.3	4.8	5.2	5	4.6	4.4	4.3	3.9	2	0.6	0.2	0.4	0.6
13	0.4	0	0.9	1.3	0.6	0.2	0.4	1.1	2	1.5	3	2.6	2.4	2.6	3.5	3.9	2.6	2.2	1.7	1.1	2	1.7	2.2	2.2
14	2.6	3.2	2.6	3	3.5	2.8	3.2	3	3.3	3.2	2	3.3	3.9	4.1	4.8	5	5.4	5	4.6	3.9	2.4	3.3	3.7	3.2
15	3	2.8	3	3.5	4.4	3.9	4.6	4.1	2	7	8.1	7.6	7.4	8	6.5	7.2	5	3.7	4.6	2.8	3	2.4	2.8	3.9
16	2.6	1.1	0.2	0	0.6	0.6	1.9	3.5	2.4	3.9	6.5	5.9	7.6	10.4	9.4	8.5	6.7	5.6	4.6	4.4	3.7	2	0.6	0.2
17	0.7	1.1	0.6	0.4	0.9	0.4	0.6	1.3	2	1.5	2	4.5	3.7	3.5	3.9	3.9	3.3	3.5	2	0.7	0	0	0	0
18	0	0.2	0	0.2	0.2	0.2	0.2	0	0.9	1.7	2.2	2.6	2	2.2	2.2	2	1.9	2	1.5	1.3	0	0.9	1.3	1.9
19	1.3	1.3	2	2.2	2	2	0.9	1.7	2	2.8	3.1	2.6	2.6	13.2	3.9	4.6	3.7	3.5	2.6	2.4	3.2	1.9	1.3	2.8
20	2.6	3	1.7	1.3	1.7	1.7	2	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	5.6	7.1	5.4	3	2.2	2.4	1.9	0.4	0.9	0.9
27	0	0	0.2	0.2	0	0.4	0	0.7	0.9	1.1	2	3.3	3.3	3.7	2.8	3.2	3.5	3.5	2.4	0.2	0	0	0.7	0
28	0	0	0	3.1	5.4	7.6	4.6	3	3.1	2.2	2.4	2	2.2	2.6	3.3	3	3.7	3	1.7	0.2	0	0.2	0.9	2
29	1.7	2.2	2.6	2.2	2.8	2.2	2.4	2.6	3.3	3.2	2.8	2.8	2.4	2.6	1.9	2.4	2.4	2.8	1.7	2.2	3	3.3	2.2	2
30	2.4	0.6	1.9	0.6	1.5	1.9	2.2	3.3	3.7	3.5	3.5	3.5	3.3	3.3	2.8	2	1.9	1.9	1.3	1.1	2.8	1.1	0.2	0.6
31	0.4	0.7	0.9	1.3	1.5	2	1.7	2.2	3	3.7	4.1	4.4	2.8	3.5	3.7	3.3	2.8	3.5	1.9	0.9	0.2	0.9	1.3	1.3

Maximum Wind Speed 13.2 mph on 8/19/93 @ 1300CDT

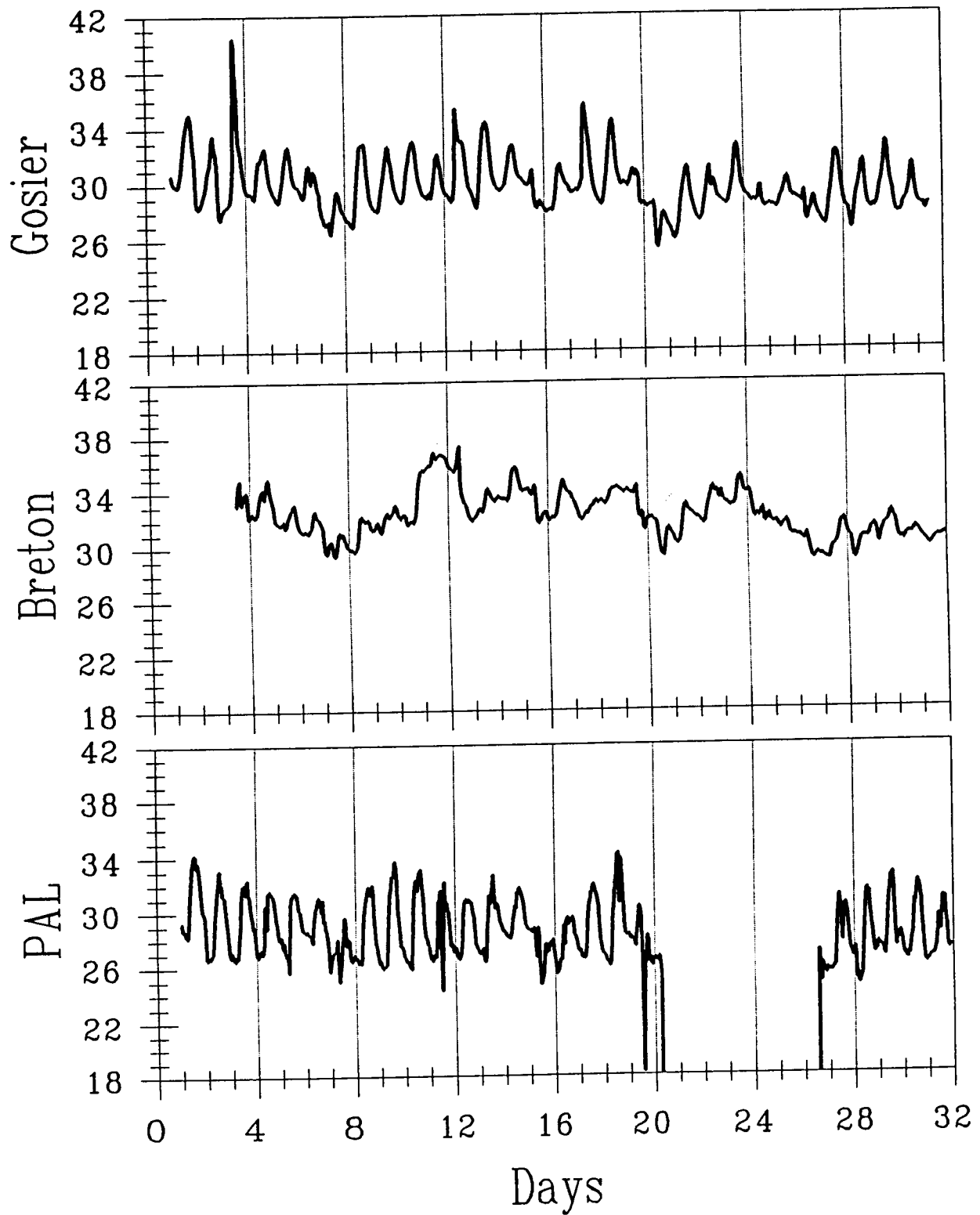
ESE Station Pass-A-Loutre, Louisiana
August 1993 Wind Directions in Degrees

Day	Hour CDT																							
	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	289	346	324	322	328	327	315	328	341	319	326	318	310	300	281	281	264	267	283	278	249	262	259	339
2	16	261	178	316	223	20	293	304	322	331	337	332	343	358	26	225	231	254	191	190	11	56	324	304
3	10	219	141	62	307	24	76	76	53	5	214	286	268	259	240	318	212	217	231	225	244	201	244	138
4	102	124	118	135	146	103	139	105	166	203	228	268	270	248	214	203	209	214	216	237	230	189	132	173
5	188	165	160	194	256	27	24	11	299	18	324	236	207	211	206	195	198	195	194	193	191	183	187	187
6	184	189	190	188	189	190	177	182	191	190	192	197	196	197	197	197	198	194	192	163	172	137	193	175
7	189	194	184	180	166	187	202	202	181	207	197	202	269	247	238	215	196	226	324	215	119	108	102	92
8	103	154	167	167	163	139	114	102	194	205	241	240	246	232	206	183	177	313	100	96	86	79	50	56
9	49	15	36	23	11	20	36	33	24	19	30	34	16	30	20	37	42	56	49	50	115	79	51	71
10	66	41	12	25	69	7	10	46	22	11	345	20	110	228	64	46	56	70	60	84	66	87	60	8
11	14	42	41	39	322	13	56	345	25	316	148	338	307	343	6	67	82	86	74	83	70	60	89	72
12	84	90	79	353	12	344	287	217	158	280	348	109	103	107	125	117	117	122	125	117	129	106	112	89
13	92	113	191	194	71	46	69	178	87	161	219	244	243	326	340	123	146	190	203	217	231	231	232	213
14	237	235	230	241	241	252	270	284	273	271	329	302	299	269	267	258	259	248	249	251	243	229	247	239
15	253	248	248	258	274	275	302	285	301	267	254	256	279	283	271	278	271	261	264	242	240	229	264	310
16	336	74	135	92	211	306	312	281	251	269	271	284	282	283	280	294	297	282	275	273	271	303	345	6
17	336	326	330	334	335	349	338	336	16	343	4	40	52	34	78	338	100	104	114	88	70	83	150	19
18	4	13	9	297	219	242	12	13	351	351	358	331	1	21	354	42	326	167	179	185	143	201	226	279
19	248	232	236	238	239	254	268	290	306	326	324	332	14	60	237	257	265	271	287	2	20	345	231	206
20	259	273	278	292	310	337	343	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	77	83	251	198	111	100	208	354	28	74
27	228	52	76	86	120	78	342	60	29	323	340	44	309	254	244	228	244	268	274	280	58	93	99	99
28	143	251	4	325	262	277	301	328	343	1	20	8	15	37	52	44	74	90	205	152	104	182	187	256
29	235	242	254	268	274	333	331	326	324	331	344	338	335	310	294	212	209	157	212	293	266	277	302	338
30	330	319	293	357	289	292	314	315	311	314	344	346	339	340	343	21	356	310	333	356	281	342	235	35
31	22	327	339	327	329	340	346	341	345	347	340	343	12	10	11	8	22	39	34	33	0	349	357	8

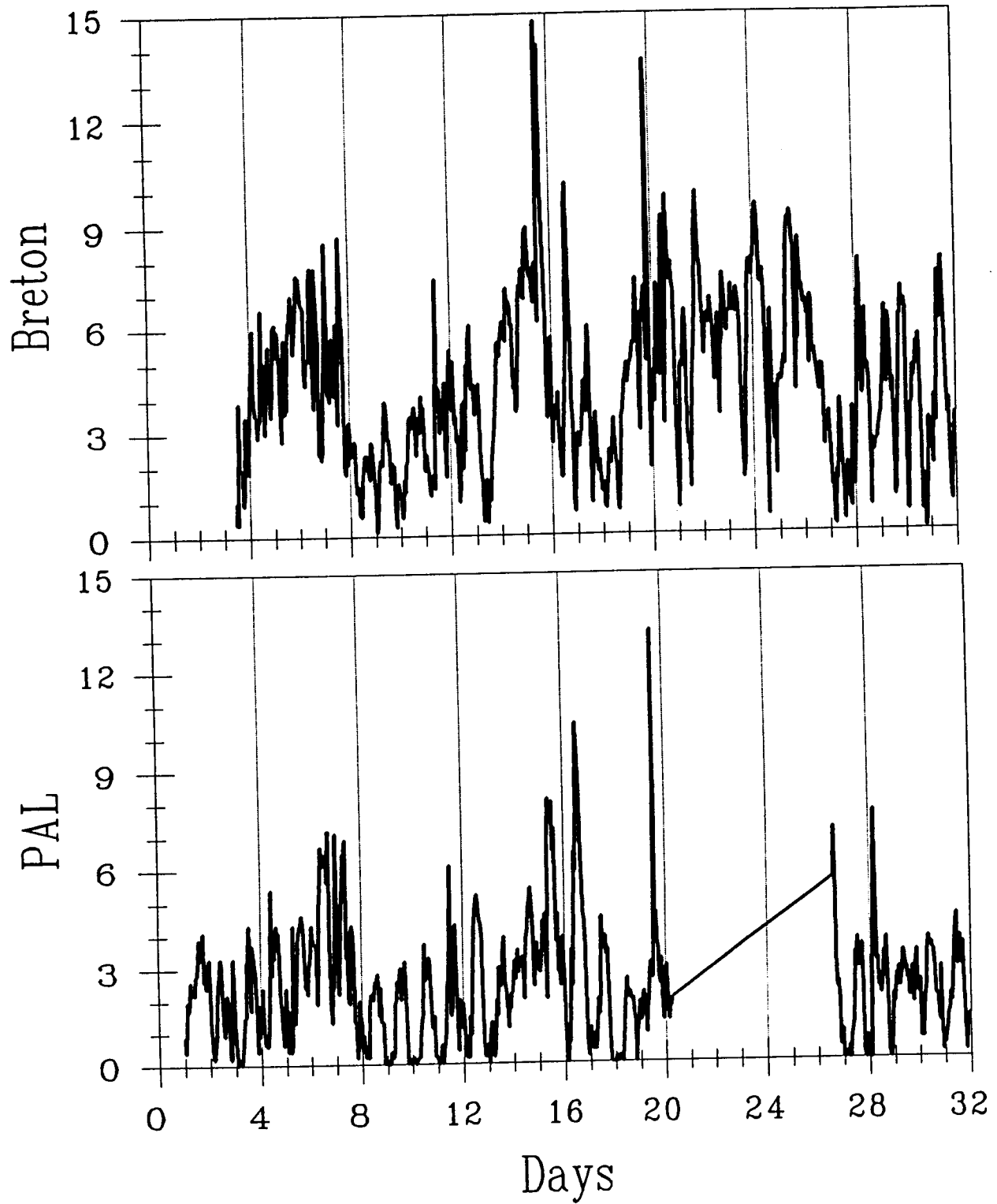
B-12



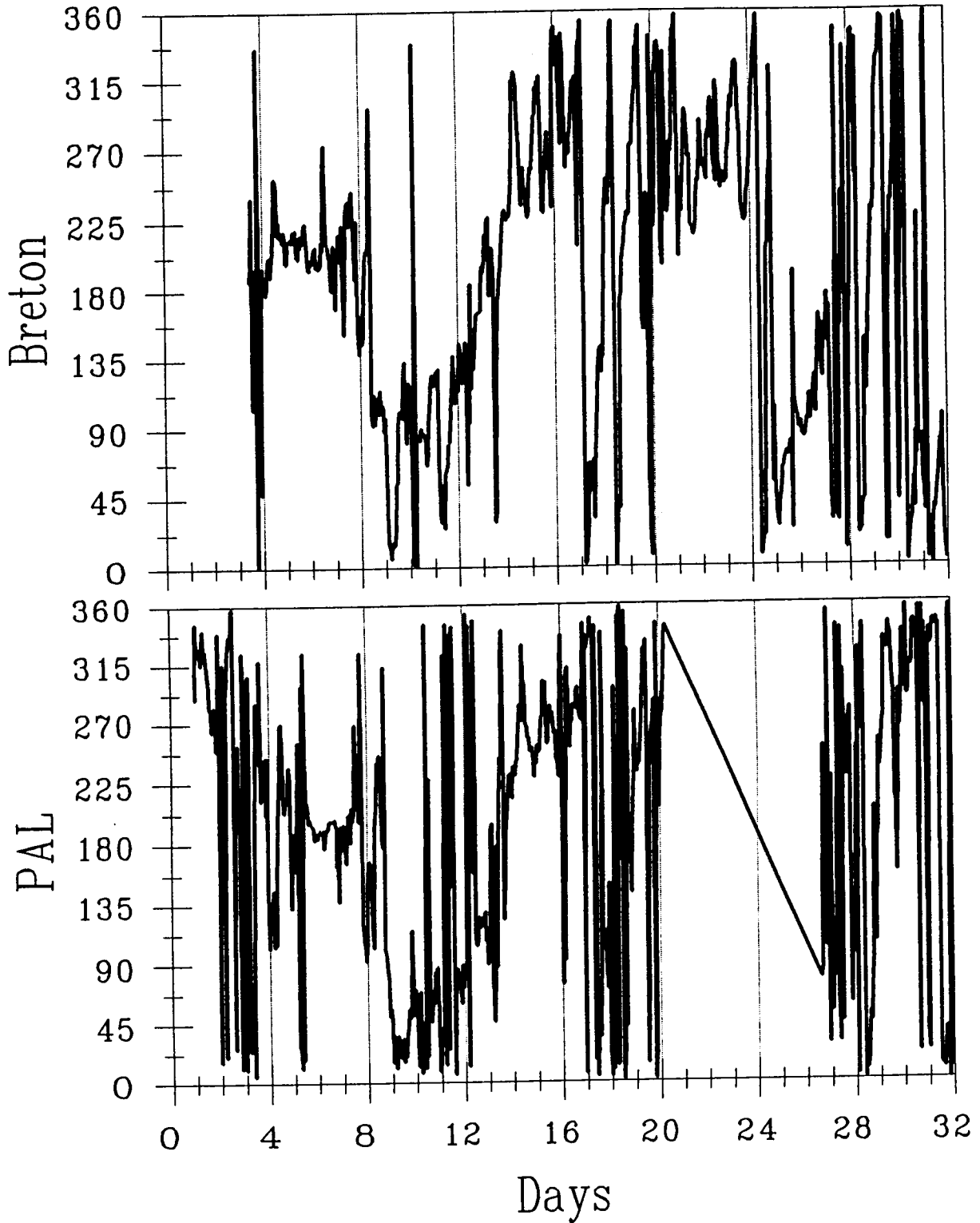
August 1993 Hourly SO₂ Concentration in PPB



August 1993 Air Temperature in °C



August 1993 Wind Speeds in MPH



August 1993 Wind Direction in Degrees Magnetic

APPENDIX C
SEPTEMBER 1993
HOURLY SO₂ AND METEOROLOGICAL DATA

CSI Station Gosier Island, Louisiana
September 1993 SO2 Concentration in PPB

Day	Hour CDT																							
	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	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	3.7	3.8	4.4	2.5	2.3	1.9	2.3	2.5	1.6	2.2	1.1	0.9
9	2.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	2.5	3.1	5.1	4.3	4.2	4.7	4.8	4.7	4.8	3.4	4.4	4.3	3.6	3.4	2.0
10	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	4.5	4.3	2.7	3.2	4.9	3.7	4.7	4.7	5.6	3.4	2.3	3.3	2.5	4.1	4.7	4.7
11	3.7	3.4	3.6	3.1	3.9	5.3	4.9	3.5	3.4	3.6	6.9	10.4	7.6	7.5	8.3	6.9	6.6	6.1	6.4	5.7	5.7	6.3	7.3	9.3
12	7.1	6.5	7.8	6.5	6.4	5.7	6.6	5.8	6.0	5.5	5.1	5.3	5.3	5.7	4.7	5.0	4.8	5.7	5.0	4.7	4.3	4.8	3.5	1.2
13	2.2	1.7	1.8	1.9	0.4	1.5	1.3	2.3	2.4	2.2	2.6	2.5	2.5	2.5	2.3	3.5	3.2	3.0	1.8	3.4	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	0.8	0.6	1.4	0.5	0.8	3.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.5	3.4	3.8	3.2	3.6	4.1	3.2	4.0	3.2	1.8	1.8	2.4
16	3.0	1.1	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	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	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-3

Maximum Hourly Concentration 10.4 ppb on 9/11/93 @ 11CDT

CSI Station Gosler Island, Louisiana
September 1993 Air Temperatures in Degrees C

Hour CDT		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day		Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss	Miss
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		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		28.2	28.0	28.0	28.0	28.0	27.9	27.8	27.7	28.0	28.8	29.8	30.8	31.5	31.9	32.2	32.7	33.0	30.6	30.1	29.8	29.4	28.9	28.6	28.3
10		29.3	29.2	29.2	29.2	29.1	29.1	29.1	29.0	29.1	29.2	29.4	29.6	29.9	30.0	30.2	30.4	30.5	30.2	30.2	29.3	28.9	28.7	28.6	28.6
11		28.5	28.2	28.0	27.9	28.0	28.1	28.1	28.1	28.0	28.2	28.4	29.0	29.6	30.3	31.0	31.7	31.8	31.8	32.0	32.0	31.2	30.2	29.5	28.9
12		28.5	28.4	28.0	27.7	27.5	27.3	27.1	27.0	27.2	28.0	29.0	30.0	30.8	31.4	31.8	32.1	32.2	32.0	31.6	30.9	30.0	29.4	29.1	28.9
13		28.8	28.8	28.9	29.1	29.1	29.0	29.0	29.0	29.1	29.3	29.9	30.5	31.0	31.3	31.6	31.8	31.9	31.9	31.6	31.1	30.5	30.1	29.8	29.7
14		29.6	29.5	29.4	29.4	29.3	29.2	29.2	29.2	29.3	29.5	29.7	30.0	30.3	30.8	31.0	30.8	30.3	28.9	28.2	27.8	27.3	26.9	26.9	26.9
15		26.8	27.1	27.5	27.7	28.0	28.1	28.1	28.2	28.0	28.1	28.9	29.7	30.3	30.6	30.7	30.8	31.0	31.0	30.4	29.9	29.7	29.4	29.1	28.6
16		28.0	27.9	27.7	27.6	27.5	27.6	27.7	27.7	27.8	28.5	29.5	30.4	31.2	31.8	32.0	31.8	31.0	30.3	29.7	28.5	27.7	27.5	27.6	27.9
17		27.9	28.0	28.1	28.1	28.1	28.1	28.0	28.0	28.0	27.9	27.7	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-4

Maximum Hourly Air Temperature 33.3 C on 9/8/93 @ 1200CDT

Minimum Hourly Air Temperature 26.8 C on 9/15/93 @ 0000CDT

**CSI Station Breton Island, Louisiana
September 1993 SO2 Concentration in PPB**

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day	1	2.7	1.5	0.9	0.7	1.7	2.6	3.0	4.9	22.2	12.8	1.9	1.6	3.8	3.8	0.2	0.0	0.0	0.2	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	0.0	1.4	0.1	3.3	7.1	3.6	2.1	0.0	0.0	3.1	5.6	1.0	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.2	3.9	0.0	0.3	2.5	1.9	3.9	0.1	0.0	0.4	5.0	0.7	2.2	0.8	1.2	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	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	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	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	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	Cal	Cal	1.5	1.3	1.3	1.3	1.2	1.1	1.2	1.2	1.2	1.7
	9	1.7	1.5	1.5	1.5	1.3	1.5	2.1	1.8	1.6	1.8	1.1	2.3	2.0	2.2	3.1	4.8	2.9	2.8	2.5	2.4	2.5	2.1	2.1	2.1
	10	2.0	2.2	2.1	2.0	2.0	1.9	3.9	2.1	3.0	10.4	8.2	6.9	5.3	5.3	4.2	2.1	2.5	2.2	1.9	1.7	0.1	0.0	0.0	0.0
	11	2.1	2.2	2.2	2.5	2.7	4.7	5.8	12.7	6.7	7.5	6.4	4.6	4.2	8.4	9.7	10.3	7.5	4.9	4.0	3.4	18.8	13.1	3.9	3.5
	12	4.0	4.9	3.8	3.1	3.0	4.3	3.1	2.5	2.6	2.7	2.7	2.6	2.7	2.6	3.5	3.8	2.6	2.9	2.5	2.4	2.2	1.9	1.8	1.8
	13	1.7	1.7	1.6	1.6	1.6	1.9	1.7	1.7	1.7	0.8	1.4	1.7	1.7	1.8	1.8	1.9	1.8	1.9	1.8	1.8	1.9	2.1	1.9	1.9
	14	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.8	1.8
	15	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	2.1	2.1	2.0	1.8	1.8	2.1	1.8	2.0	2.0	2.2	2.1
	16	3.2	2.6	2.0	2.2	2.2	2.1	2.2	2.2	3.8	2.1	2.1	2.8	3.4	2.9	3.1	2.8	3.3	3.3	2.2	1.8	1.9	2.0	2.0	2.0
	17	2.1	2.1	2.0	1.9	2.1	2.1	2.2	2.8	2.6	5.0	5.2	4.0	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-5

Maximum Hourly Concentration SO2 22.2 ppb on 9/1/93 @ 0800 CDT

**CSI Station Breton Island, Louisiana
September 1993 Air Temperatures In Degrees C**

Day	Hour CDT																							
	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	30.7	30.7	30.7	30.6	30.6	30.5	30.4	30.4	30.5	30.7	30.5	30.4	30.3	30.2	30.3	30.3	30.2	30.2	30.2	30.2	30.3	30.3	30.3	30.4
2	30.3	30.3	30.2	30.3	30.4	30.4	30.5	30.6	30.7	31.1	31.7	32.4	32.7	32.8	32.6	31.4	30.8	30.6	30.5	30.1	30.1	30.4	30.4	30.4
3	30.3	30.4	30.6	30.8	30.5	30.1	29.7	29.5	29.6	29.6	29.5	29.3	29.4	29.7	30.0	30.3	30.3	30.0	29.8	29.7	29.5	29.4	29.3	29.3
4	29.2	29.1	29.1	29.2	29.2	29.2	29.1	29.0	28.9	29.1	29.4	29.9	30.4	30.7	30.9	30.5	30.2	29.8	29.3	29.1	29.2	29.3	29.6	29.6
5	29.5	29.4	29.2	29.2	29.0	28.8	28.7	28.7	28.3	27.7	27.6	27.7	28.4	28.8	29.0	29.2	29.3	29.1	28.9	28.9	29.0	29.1	29.2	29.1
6	29.0	28.9	28.8	28.7	28.6	28.6	28.5	28.5	28.6	28.9	29.0	29.0	28.7	28.7	29.1	29.1	28.8	28.8	28.9	29.1	29.3	29.4	29.4	29.3
7	29.3	29.1	28.8	28.6	28.7	28.9	29.2	29.2	29.2	29.2	28.8	28.7	29.0	29.2	29.4	29.7	29.9	30.1	30.6	31.3	31.2	30.7	30.3	30.0
8	29.6	29.3	29.0	28.6	28.4	28.1	28.0	28.1	28.3	28.7	29.2	29.7	Cal	Cal	31.4	31.5	31.8	32.1	32.3	32.2	31.6	31.2	30.9	30.9
9	30.9	30.9	30.7	30.2	30.1	29.9	29.8	29.7	29.8	29.9	30.1	30.5	31.0	31.5	32.0	32.7	33.3	33.6	33.4	33.0	32.5	32.1	31.8	31.5
10	31.3	31.2	31.1	31.0	31.0	30.9	30.8	30.6	30.4	30.4	30.4	30.6	30.8	30.7	30.6	30.4	30.2	30.1	29.7	29.8	29.9	30.0	30.0	30.2
11	30.3	30.2	30.0	29.8	29.6	29.5	29.5	29.6	29.9	30.3	30.8	31.4	31.8	32.2	32.5	32.8	33.1	33.4	33.5	33.6	33.0	32.3	31.8	31.2
12	30.8	30.5	30.3	30.1	30.0	29.8	29.7	29.5	29.5	29.8	30.2	30.7	31.1	31.3	31.5	31.6	31.9	32.1	32.2	32.1	31.7	31.4	31.1	30.9
13	30.9	30.8	30.8	30.6	30.6	30.4	30.4	30.4	30.5	30.6	30.8	31.1	31.4	32.1	32.9	33.6	34.2	34.7	34.9	34.8	34.5	34.2	34.1	33.9
14	33.9	33.7	33.4	33.3	33.1	33.0	32.8	32.8	32.8	33.1	33.4	33.7	34.1	34.3	34.4	34.4	34.1	33.6	33.4	33.5	33.4	33.4	33.3	33.3
15	33.1	32.8	32.5	32.3	32.2	32.3	32.4	32.6	32.8	33.1	33.4	33.8	34.1	34.3	34.5	34.6	34.9	35.1	35.1	35.0	34.9	34.8	34.6	34.5
16	34.4	34.4	34.3	34.2	34.2	34.1	34.0	33.9	34.0	34.4	34.8	35.6	36.3	36.8	37.4	37.8	37.8	37.6	37.4	36.9	36.4	36.0	35.8	35.6
17	35.4	35.3	35.2	35.0	34.9	34.7	34.5	34.5	34.6	34.9	35.1	35.4	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-6

Maximum Hourly Air Temperature 37.8 C on 9/16/93 @ 1500-1600CDT

Minimum Hourly Air Temperature 27.6 C on 9/5/93 @ 1000CDT

CSI Station Breton Island, Louisiana
September 1993 Wind Speed in MPH

		Hour CDT																							
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day																									
1		3.4	5.1	5.9	6.1	6.1	6.1	6.9	7.5	8.5	5.2	5.3	4.2	4.9	5.1	6.1	4.7	2.6	2.4	1.8	4.3	2.4	3.2	4.2	4.2
2		4.3	5.7	6.2	6.5	6.8	6.6	5.8	5.3	4.6	4.3	4.1	3.3	3.3	1.7	8.3	7.5	6.1	5.3	4.8	5.5	6.2	6.1	6.7	7.0
3		6.6	6.7	7.3	9.0	8.7	8.4	6.5	9.6	8.6	9.4	8.5	2.5	3.4	5.9	6.1	7.1	7.5	7.9	7.8	6.7	6.0	5.0	3.5	5.1
4		4.8	4.5	4.1	6.6	4.9	5.0	4.5	4.7	4.6	3.9	3.3	3.4	2.9	1.6	3.8	4.7	6.9	5.3	6.5	3.8	3.1	1.6	2.3	1.3
5		1.5	0.7	1.2	1.5	1.6	2.3	0.9	1.6	1.3	0.6	4.7	1.8	2.1	2.2	2.6	4.1	6.1	4.8	2.6	0.7	0.9	2.3	3.0	4.7
6		6.4	6.1	5.8	5.1	5.8	5.6	4.9	3.9	4.1	3.2	5.7	6.8	1.6	0.1	2.7	7.0	3.5	3.7	2.2	2.9	3.1	4.6	4.3	3.7
7		4.9	5.9	4.6	1.7	1.0	1.9	5.3	5.6	2.2	5.6	1.1	0.5	0.5	0.7	1.5	2.2	1.4	3.3	1.4	1.9	3.9	2.7	1.9	2.4
8		4.0	3.0	5.3	2.1	2.4	0.8	0.4	0.7	0.7	1.6	1.4	0.9	Cal	Cal	2.7	3.0	4.1	3.3	4.2	4.0	5.2	4.3	3.9	4.1
9		4.4	3.7	0.9	0.2	1.7	3.0	3.5	2.8	2.2	1.9	1.5	0.9	0.9	1.7	1.1	1.0	2.0	2.2	2.3	2.0	1.4	2.5	4.7	5.8
10		5.6	6.5	7.7	8.2	7.5	7.4	7.6	7.4	7.8	6.7	5.2	3.3	4.1	3.7	2.3	5.0	6.0	3.8	1.8	2.0	4.4	3.6	2.1	0.6
11		1.5	1.9	2.3	2.7	4.2	4.5	3.6	3.0	3.3	2.9	2.7	2.3	1.6	1.6	1.6	1.3	1.6	2.1	1.8	2.0	1.9	2.2	3.1	3.6
12		4.3	5.2	5.1	4.1	3.8	3.7	3.9	4.5	4.6	4.4	4.0	4.3	4.6	4.7	4.6	3.9	3.7	4.5	5.0	5.4	5.8	7.5	7.8	8.1
13		8.0	8.1	7.2	7.3	6.4	5.5	5.4	6.6	7.0	7.6	8.7	8.8	9.0	9.4	9.3	9.3	9.2	9.8	9.9	10.4	10.6	10.2	10.2	10.6
14		12.4	13.0	13.5	12.0	10.8	10.1	10.0	9.4	8.3	9.2	9.2	9.5	8.8	8.9	6.3	7.6	6.0	3.2	3.7	6.0	1.5	1.8	2.3	7.6
15		10.1	8.8	10.1	8.1	5.5	3.0	3.5	3.6	1.1	3.1	4.3	5.3	3.9	3.5	2.0	2.2	3.5	3.1	1.4	1.4	0.4	2.6	1.0	4.1
16		3.3	2.9	2.9	3.0	3.2	2.8	2.1	1.1	1.7	1.4	0.3	1.0	1.6	1.9	2.0	4.7	5.1	5.5	4.9	5.0	5.8	4.4	4.4	3.8
17		3.8	4.5	6.1	5.1	4.9	4.4	4.8	5.0	6.6	7.9	8.0	8.5	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-7

Maximum Speed 13.5 mph on 9/14/93 @ 0200 CDT

**CSI Station Breton Island, Louisiana
September 1993 Wind Direction in Degrees**

Day	Hour CDT																							
	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	12	23	26	32	39	37	40	43	45	322	336	333	319	36	16	42	65	53	116	83	115	106	79	93
2	112	140	161	174	186	186	190	191	224	214	218	249	262	258	142	165	228	253	191	175	190	183	181	177
3	177	196	209	234	196	241	248	256	252	278	307	305	246	224	230	223	220	247	271	268	268	239	252	284
4	258	293	295	303	292	287	258	247	259	279	271	286	256	246	199	197	250	215	284	319	9	19	360	40
5	89	72	73	142	138	137	152	46	38	345	210	164	185	167	150	166	213	201	192	191	147	109	111	121
6	124	138	141	145	141	150	157	149	163	213	242	222	257	205	183	165	157	164	155	123	113	127	142	138
7	152	175	149	103	41	24	38	64	110	219	110	85	297	282	135	131	55	53	83	78	77	72	95	138
8	173	163	2	53	156	174	89	123	132	109	123	89	Cal	Cal	77	94	100	98	114	114	117	119	126	132
9	128	136	199	201	247	232	238	235	259	273	268	266	311	322	339	67	114	123	147	168	166	238	209	216
10	226	247	252	281	286	296	290	296	300	300	307	306	295	270	260	221	224	273	250	300	318	318	321	240
11	222	228	256	266	311	324	345	24	13	19	50	72	77	35	36	16	50	68	78	79	95	112	110	104
12	108	116	126	129	131	122	138	135	134	140	142	124	120	123	124	115	108	110	115	121	120	117	138	141
13	165	169	181	179	179	178	173	169	167	165	164	159	156	154	152	152	151	152	152	151	149	148	151	150
14	152	154	157	160	164	163	163	164	167	165	164	162	158	163	176	170	169	169	133	122	108	229	95	146
15	161	161	161	164	165	170	176	176	182	162	153	158	160	222	196	238	128	162	187	153	235	174	102	98
16	108	107	114	118	123	130	126	119	53	104	121	60	17	64	25	4	30	24	119	69	55	83	84	92
17	89	103	104	84	91	88	90	86	69	43	41	53	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

ESE Station Pass-A-Loutre, Louisiana
September 1993 SO2 Concentration in PPB

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	0	0	0	1	0	1	1	1	1	11	7	2	5	3	2	1	1	0	0	0	0	0	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	1
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cal	1	1	1	1	1	1	1	1	0
9	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
10	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	2	1	1	1	1	2
11	2	2	2	1	1	1	2	2	2	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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

Maximum Hourly SO2 Concentration 11 ppb on 9/1/93 @ 0900CDT

**ESE Station Pass-A-Loutre, Louisiana
September 1993 Air Temperatures In Degrees C**

Day	Hour CDT																							
	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	27.2	27.2	27.1	27.0	27.1	26.9	27.1	27.3	27.5	30.1	30.1	31.2	31.6	31.7	30.6	29.6	28.8	28.6	28.7	27.6	27.4	27.2	27.2	26.9
2	26.9	26.9	27.0	27.0	27.3	25.8	27.5	27.8	28.1	29.0	30.0	30.7	30.4	28.1	30.1	29.7	25.1	25.2	25.5	25.8	26.3	27.2	26.9	28.0
3	28.0	28.3	27.6	28.0	26.4	25.8	25.7	25.7	25.8	25.9	26.2	27.2	27.5	27.6	27.1	26.4	26.7	26.7	26.9	26.7	26.8	26.8	26.9	27.0
4	27.1	27.0	26.7	26.2	25.3	24.9	25.2	25.3	26.9	28.6	28.8	29.6	29.4	30.3	27.0	25.3	26.4	27.9	25.6	25.4	25.5	25.9	25.8	26.1
5	25.9	25.9	25.9	26.2	26.1	26.0	25.8	26.8	27.9	27.1	25.2	25.8	27.9	29.1	25.5	25.0	26.9	28.3	27.3	26.3	25.9	26.0	26.1	26.1
6	26.1	26.1	26.0	25.5	23.7	24.9	25.6	26.4	28.2	28.2	26.6	26.2	27.6	27.7	27.8	29.4	28.8	27.3	27.4	26.7	26.4	26.2	26.4	26.3
7	26.4	26.3	26.3	26.4	25.9	26.1	26.2	23.6	23.8	23.9	24.6	25.3	26.0	26.1	27.0	27.8	27.2	27.6	27.3	25.7	25.6	25.4	25.7	25.8
8	25.5	25.4	25.5	25.2	25.2	25.3	25.4	27.6	28.0	29.1	29.1	29.4	29.4	28.3	28.8	29.4	28.2	28.3	27.8	26.8	26.8	26.6	26.6	26.3
9	26.1	25.9	25.8	26.2	26.8	26.8	26.7	27.5	28.4	29.2	30.0	28.3	27.8	30.7	31.9	30.1	30.1	29.9	28.6	27.5	27.4	26.8	27.1	28.2
10	28.1	27.7	27.7	27.6	27.7	27.4	27.6	27.7	28.7	29.6	28.9	24.8	26.6	26.9	27.3	28.0	28.7	28.9	27.8	27.3	26.7	26.7	26.4	25.7
11	25.5	25.2	25.3	25.4	25.6	25.7	25.8	26.6	28.3	29.7	30.4	30.9	31.3	31.4	31.6	32.2	29.8	29.4	27.9	26.2	25.3	25.2	25.2	25.6
12	25.3	25.4	25.2	24.9	24.7	25.2	25.0	26.3	27.7	29.1	29.8	30.3	30.4	31.1	30.9	30.1	29.5	28.4	27.9	26.8	26.7	26.9	26.8	27.0
13	26.8	26.9	26.9	26.8	26.7	26.6	26.6	27.3	28.5	29.6	29.6	29.8	29.8	30.2	30.0	29.7	29.4	29.3	28.7	28.1	28.0	27.9	27.9	27.6
14	27.5	27.6	27.6	27.6	27.6	27.6	27.7	28.1	29.1	29.6	29.2	30.0	30.4	30.0	27.1	26.3	28.1	27.9	27.3	21.2	24.3	24.7	24.9	24.9
15	24.8	25.4	25.8	26.3	26.1	25.8	25.8	26.9	28.9	29.1	29.1	30.1	30.1	30.0	30.2	30.4	30.0	29.0	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-10

Maximum Hourly Air Temperature 32.2 C on 9/11/93 @ 1500CDT
Minimum Hourly Air Temperature 21.2 C on 9/14/93 @ 1900CDT

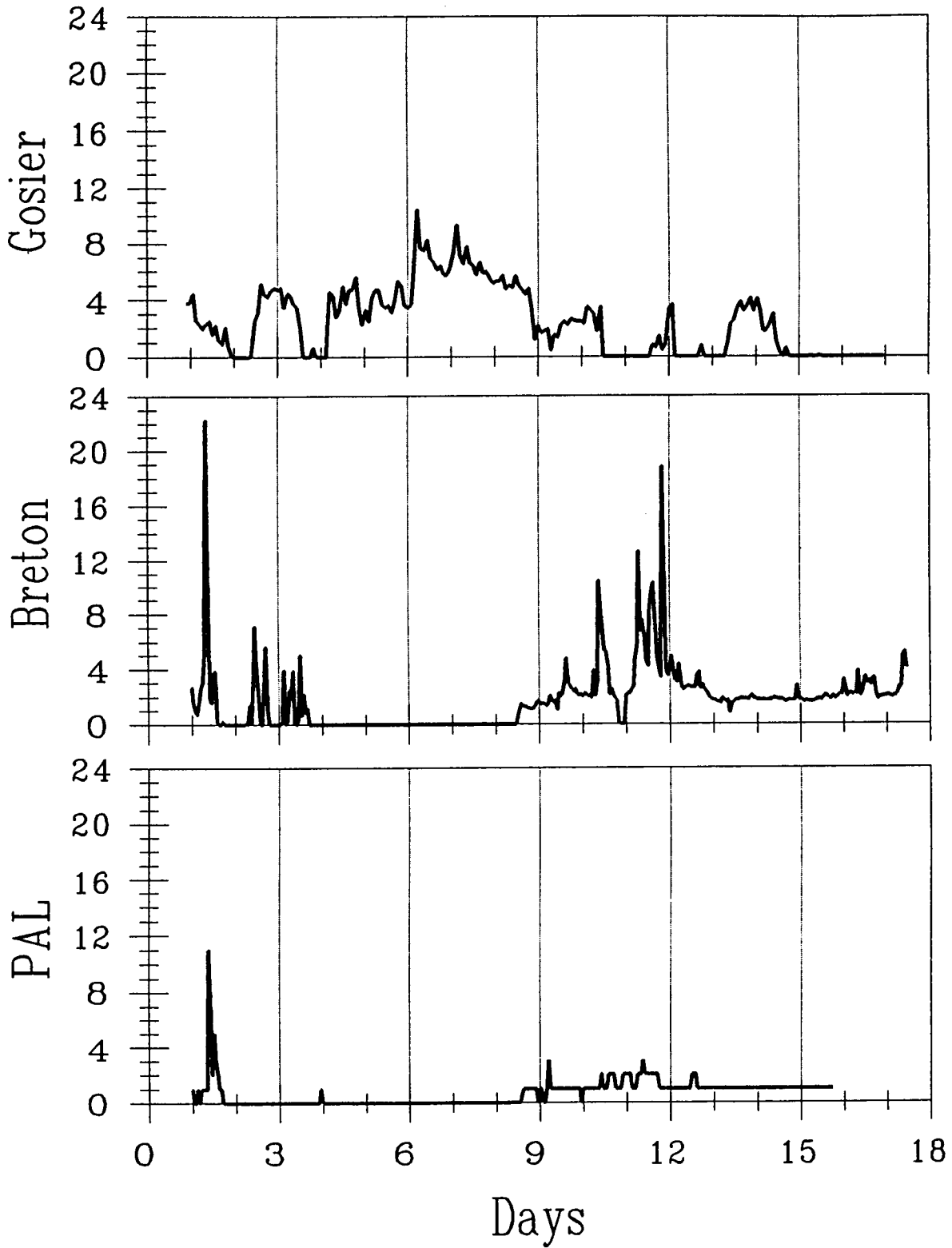
ESE Station Pass-A-Loutre, Louisiana
September 1993 Wind Speeds in MPH

Day	Hour CDT																							
	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	1.9	1.7	1.1	1.5	1.1	2	2.2	1.9	2.6	3.7	3.7	3.3	2.8	3.2	2.6	2.6	2.2	0.9	0.6	0.6	0	0.2	0.7
2	1.9	2.2	2	2.2	2	3.9	2.8	4.1	3.7	4.3	4.1	4.1	4.6	4.3	3.9	4.6	3.7	5.7	1.9	0.7	2.2	2.2	2.8	4.3
3	4.5	5.4	5.6	5.6	6.7	6.9	5.9	5.9	4.8	4.1	5.4	3.9	4.4	5.2	6.5	7.2	6.1	5.4	4.4	3.9	4.1	3.2	2.6	2
4	2.4	2.2	0.6	2.2	3.9	3.1	1.9	0.7	1.3	2.2	3.2	4.1	4.1	3.3	4.4	5.8	4.6	3	3.1	3	0.9	1.3	0.2	0.9
5	0.6	0.6	0.9	0.7	1.3	0.9	0.2	2.6	2.6	1.9	3.3	2	0.9	1.7	5.2	3.1	3.5	1.9	1.5	1.3	0.9	2.2	2.4	2.6
6	2.8	2.4	2.4	3.7	3.9	2.2	2.6	1.9	2.4	2.4	3.7	2.4	1.5	3.7	4.8	2.2	3	2.8	1.9	1.5	1.7	0.9	2.2	2.2
7	2.4	1.3	2	1.5	0.2	0.9	1.5	3	1.7	2.2	1.3	1.1	1.3	0.7	2	2.2	3.7	3.7	1.5	0.4	1.1	0.2	1.1	1.5
8	0.9	1.1	0.6	0.2	0	1.7	0.7	0.4	1.7	1.7	2.2	3	4.1	3.3	4.3	3.9	3.5	4.1	3.2	2.2	2.2	2.2	1.9	0.7
9	0.2	0.6	0.4	1.3	2.4	2.6	2.8	1.7	2.2	2	1.9	2.8	3	1.9	2	2.8	2.6	2.2	1.5	0.4	0.2	0.2	0.7	2.8
10	3.3	3.3	3	3	2.6	1.7	2	1.7	2.8	2.8	3.2	4.3	3	1.9	0.9	1.5	2.6	3	3.2	2.2	0.6	1.3	0.9	0
11	0.2	0	0	0.2	0.7	0.6	1.3	2.2	1.3	1.9	2	2.2	1.7	2.2	3	2.2	2.4	2	1.3	0	0	0	0	1.1
12	0.9	1.3	0.9	0.4	0.2	0.9	0.4	1.5	3	2.6	3	3.3	3.3	3	3.2	3	2.8	2.6	1.5	0.7	1.7	2	2	2.6
13	2	2.6	2.2	2	1.7	1.3	1.3	2	3.2	4.4	5.4	5.6	6.3	6.1	5.9	5.8	5.4	4.6	4.5	4.8	4.4	5	4.1	4.4
14	6.1	6.9	6.3	6.3	4.8	3.9	4.6	4.1	5	6.3	5.4	5.8	6.1	5.8	6.1	1.7	1.3	2	1.7	6.1	1.1	1.5	3.2	2
15	2	3.3	4.8	4.8	0.6	0.2	0.9	0.7	2	3.2	3.3	3.9	3.3	3.3	3.9	3.5	3	2.6	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

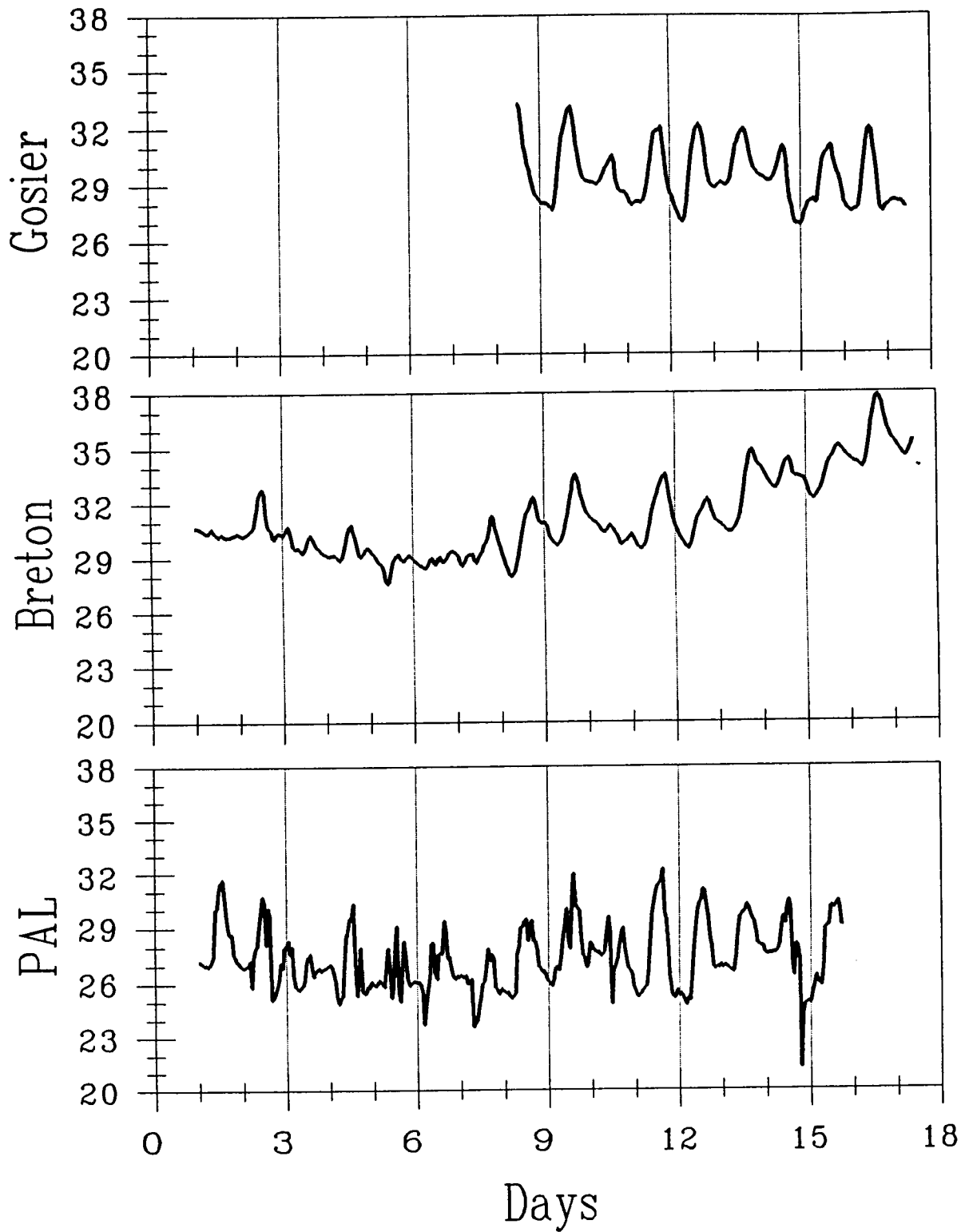
Maximum Wind Speed 7.2 mph on 9/3/93 @ 1500CDT

ESE Station Pass-A-Loutre, Louisiana
September 1993 Wind Directions in Degrees

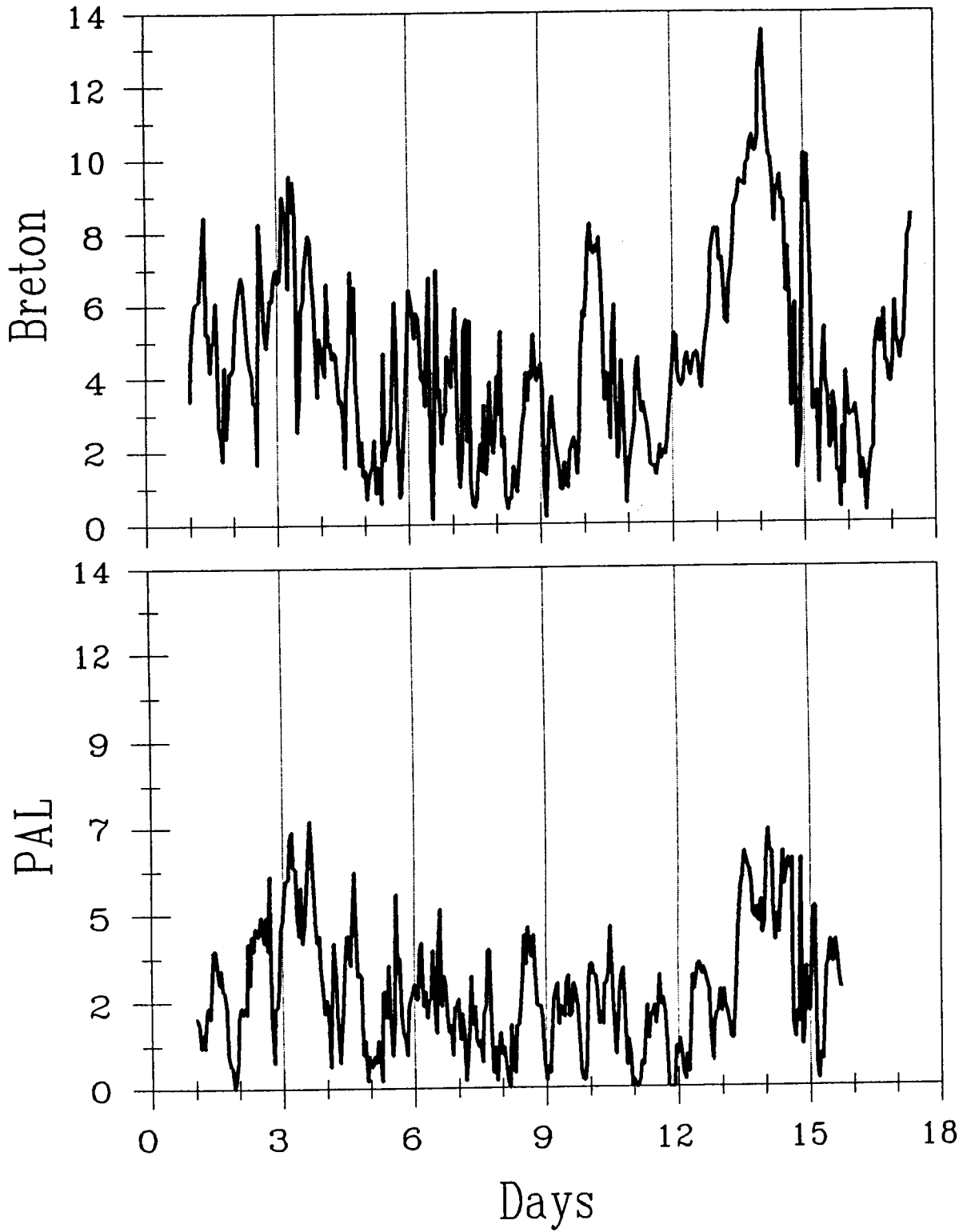
Day	Hour CDT																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	360	352	342	5	337	10	13	41	71	17	21	23	14	17	26	14	36	38	10	346	6	54	64	103
2	228	111	159	154	177	198	224	237	257	247	229	207	204	262	209	241	353	244	220	143	122	126	143	191
3	190	201	204	197	210	264	281	280	271	264	266	282	263	235	225	236	247	258	275	275	247	260	278	244
4	271	261	248	259	319	306	182	146	122	212	252	254	251	232	149	208	232	226	278	215	353	268	326	43
5	49	52	81	103	99	101	80	150	157	115	214	329	3	259	211	212	195	165	109	95	86	90	98	99
6	97	103	99	130	99	314	8	173	171	195	267	266	139	222	240	234	183	180	124	104	94	97	102	106
7	103	98	97	105	85	122	7	258	2	29	46	331	260	303	127	312	62	76	299	146	103	105	108	110
8	115	108	134	149	306	84	73	39	24	232	179	135	137	232	71	55	290	96	103	106	105	106	105	138
9	182	111	157	191	245	253	228	189	231	212	225	245	218	296	4	53	219	114	108	156	188	330	179	235
10	246	257	268	278	276	302	298	332	319	331	303	186	217	225	143	210	226	232	244	255	326	319	16	83
11	74	97	90	52	4	3	347	342	7	20	40	45	6	286	320	360	302	69	104	81	65	75	62	91
12	68	86	83	87	84	95	84	81	82	291	118	117	104	138	128	117	107	109	152	170	99	143	146	135
13	157	174	164	160	150	157	143	155	155	149	137	135	131	134	132	134	126	128	135	139	115	118	116	121
14	127	128	140	141	149	152	139	152	148	142	155	163	174	185	175	130	170	152	147	233	280	311	78	77
15	305	148	149	145	212	70	25	122	128	169	182	201	198	223	215	213	224	211	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



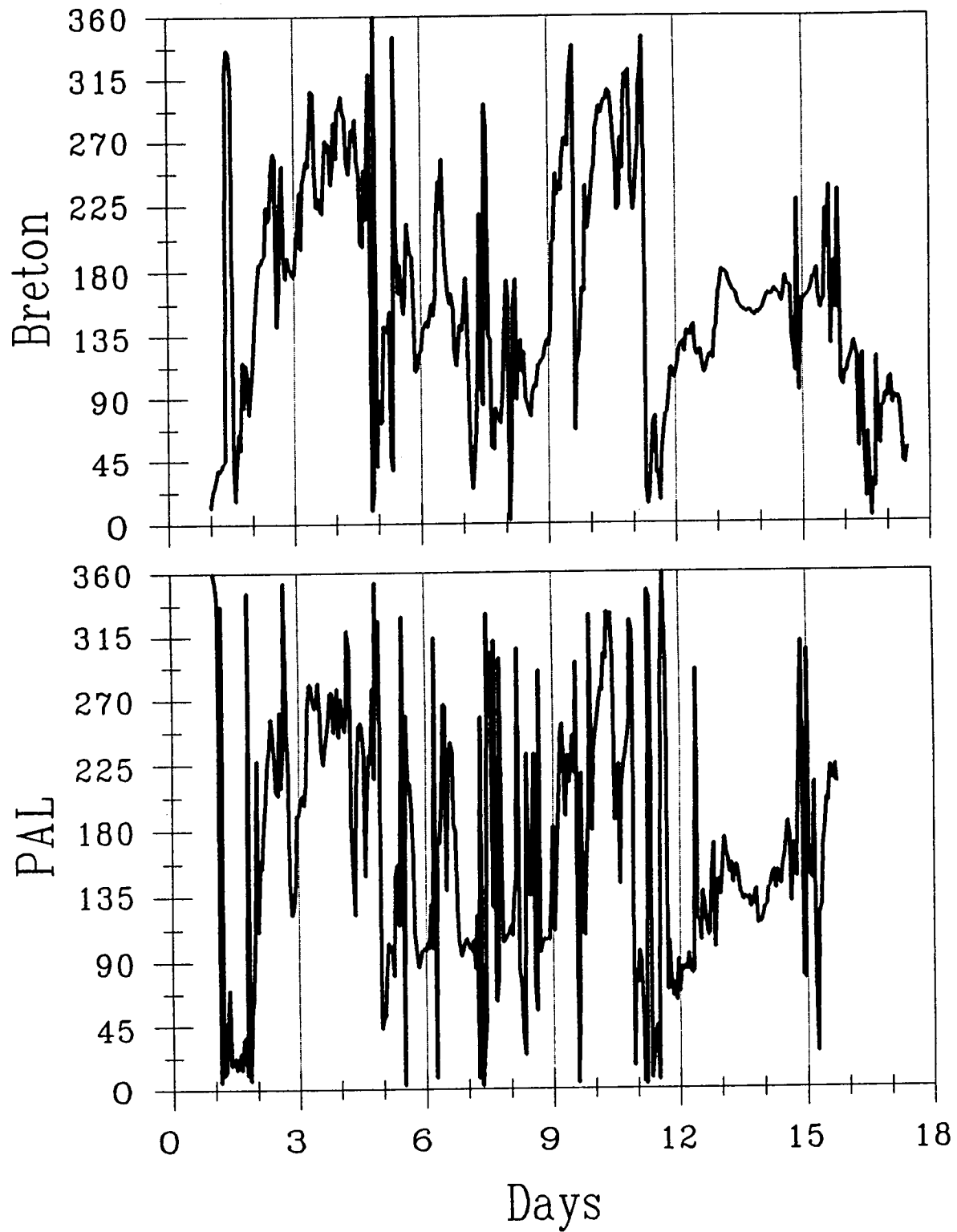
September 1993 Hourly SO₂ Concentration in PPB



September 1993 Air Temperature in °C



September 1993 Wind Speeds in MPH



September 1993 Wind Direction in Degrees Magnetic



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.