

Assessment Of Sulfur Dioxide Control Strategies For The Metropolitan Philadelphia Region

(Tasks 1 - 7)

Final Report

Contract No. WD-8-0261-A

Prepared For
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region III
Air Programs Branch
Philadelphia, Pennsylvania 19106

May 1978

GCA/TECHNOLOGY DIVISION 
BEDFORD, MASSACHUSETTS 01730

ASSESSMENT OF SULFUR DIOXIDE
CONTROL STRATEGIES FOR THE
METROPOLITAN PHILADELPHIA REGION
(Tasks 1 - 7)

by

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Project Officer
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DISCLAIMER

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ABSTRACT

The Metropolitan Philadelphia Interstate Air Quality Control Region is currently not attaining the primary air quality standards for sulfur dioxide, total suspended particulates, photochemical oxidants, and carbon monoxide. Under this contract, a number of proposed sulfur in fuel limits have been tested to determine their suitability to attain and maintain the SO₂ air quality standards in the region.

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SECTION 1

INTRODUCTION

Over the past 2 years the air quality control agencies of New Jersey, Pennsylvania, Philadelphia, and Delaware have worked to develop a regional strategy to attain and maintain the National Ambient Air Quality Standards for sulfur dioxide. Under a previous contract between the EPA and GCA (68-02-1376 Task Order No. 24) several strategies proposed by the air quality control agencies were evaluated using air quality dispersion modeling. The final report entitled "Emission Inventory and Sulfur Dioxide Alternatives for the Metropolitan Philadelphia Region" (EPA 903/9-77-030) was published in August 1977.

The control agencies did not agree on a common strategy. On October 11, 1977 New Jersey filed its intention to sue the EPA, Pennsylvania, Philadelphia, and numerous companies in Philadelphia for failure to implement the existing State air quality implementation plan; on December 20, 1977, the Pennsylvania Department of Environmental Resources (DER) submitted a proposed regional sulfur dioxide strategy for evaluation and consideration by the EPA and New Jersey. This report discusses the procedures followed in upgrading the data base for the strategy evaluations, and presents the results of modeling the four strategies developed by DER and the two supplementary strategies proposed by the U.S. Environmental Protection Agency.

SECTION 2

UPDATE OF STRATEGY ANALYSIS DATA BASE

At the inception of this contract, a review was performed of the data base being utilized for the strategy analysis. This review covered three areas; the first area was the verification of the SO₂ emissions (rates) for New Jersey and Delaware; the second area was the review of the sulfur content of fuels as reported in NEDS; and the third area was the updating of projection year emission rates.

A program which had been previously developed under Contract No. 68-02-1376 Task Order No. 24, was modified to calculate the SO₂ emissions based on fuel consumption and the sulfur content of the fuel. The calculated SO₂ emissions were compared to the estimated values on the NEDS forms to check that the data was consistent. For all New Jersey sources, the emission rates were consistent with this most recently reported fuel usage and sulfur content data and no adjustments were made to the inventory. In 1974 several sources in New Jersey had reported burning residual oil with sulfur contents higher than that allowed by the regulations. Thus when air quality is calculated at existing regulations for New Jersey emissions are adjusted to their compliance value. For most sourced in New Castle County, the emission estimates were in agreement with the most recent fuel consumption data.

A review of the sulfur content of fuels indicated some coding errors which were primarily in New Castle County. The apparently erroneous sulfur contents can be traced to the old NEDS data file which was utilized, and does not necessarily reflect the current status of Delaware's inventory. The sulfur content of 18 sources was adjusted to agree with the estimated SO₂ emissions. Additionally, distillate oil sulfur content at 10 sources adjusted to 0.3 percent from the 0.1 percent in the previous file. For the Delmarva-Delaware City power plant and the Eddystone power plant, the fuel data was deleted from the strategy file so that the emission rates could be adjusted manually prior to each strategy run. For projection years, the power plants burning coal under a variance during 1974 in New Jersey had their emissions adjusted to oil-only operation, and the coal consumption was put to zero in the strategy data file. Additionally, data for the adjustment of oil refinery emissions was set to zero thus eliminating any variation in their emission rate due to the strategies.

No change in the emission rates was made for the base year 1974. For future years, the emission rate for point 60 at the Gulf refinery in Philadelphia was adjusted from 1,450 to 100 tons per year to reflect the renovation of the sulfur recovery plant and replacement of the tailgas unit.

The Delmarva Delaware City power plant and the Eddystone power plant were placed into compliance in 1980; thus for 1980 and 1990, the emissions from these source reflect the strategy being tested. For Strategy 5 all coal use in Philadelphia was lowered to 0.2 percent for 1980 and 1990. (All other emission rates were the same as those used in the previous contract unless constrained by the strategy being tested.)

SECTION 3

STRATEGY ANALYSIS

In order to assist the New Jersey, Pennsylvania, Philadelphia and Delaware air quality control agencies in developing a regional sulfur in fuel strategy, this contract was awarded as a follow-on to contract 68-02-1376 Task Order 24, to perform additional sulfur in fuel strategy analysis. For this study, a new set of strategies were developed by the Pennsylvania Department of Environmental Resources (DER) and analyses were performed to determine their impact on the air quality levels in the Metropolitan Philadelphia Interstate Air Quality Control Region.

The strategy alternatives proposed by DER required the definition of an inner and outer zone. The western boundary of the inner zone extended from south of Wilmington, Delaware to Norristown, Pennsylvania to the Delaware River across from Trenton, New Jersey. On the eastern side, the inner zone included portions of Camden and Gloucester Counties along the Delaware River. Figure 1 details the exact boundary of the inner zone as defined. The New Jersey regions in the inner zone encompass the same area that was in the inner zone for the previous study. Under the previous contract, no portion of New Castle County was in the inner zone, and Delaware and Philadelphia Counties were the only regions in Pennsylvania in the inner zone.

The proposed SO₂ control strategy utilized in this contract is defined in Table 1. The proposed strategy differs from that put forth by DER in that the available data files do not differentiate between categories of residual oil, thus all residual oil strategies for Philadelphia were run at 0.5 percent sulfur in oil. The application of the coal strategy has also been modified. Since the coal strategy for the inner zone differentiates the allowable SO₂ emissions by boiler sizes, and this data was unavailable in the point source strategy data files, these points were manually adjusted. After conversations with the project officer, it was determined that the two applicable facilities were Delmarva Power at Delaware City, and the Philadelphia Electric's Eddystone plant. Both these plants were kept on their variance schedule until 1980, and then put into compliance with the proposed regulations. After discussions with the project officer, the coal strategies for Philadelphia County were implemented for 1980 and 1990.

Six strategies were analyzed under this contract, four strategies proposed by DER, and two strategies proposed by EPA. The strategies are as follows:

- Strategy 1 - Pennsylvania at the proposed sulfur in fuel limits, Delaware and New Jersey at their current sulfur in fuel limits.
- Strategy 2 - Pennsylvania and Delaware at the proposed sulfur in fuel limits, New Jersey at their current sulfur in fuel limits.
- Strategy 3 - Pennsylvania and New Jersey at the proposed sulfur in fuel limits, Delaware at their current sulfur in fuel limits.
- Strategy 4 - All three states at the proposed sulfur in fuel limits.
- Strategy 5 - All regions at existing regulations with no variances. (See Table 2).
- Strategy 6 - All three states at the proposed sulfur in fuel limits except all inner zone distillate oil at 0.2 percent sulfur.

Strategies 4, 5, and 6 were evaluated for 1974, 1978, 1980 and 1990, where as strategies 1, 2, and 3 were evaluated only for the projection years. The tabulations of SO₂ concentrations are presented in Tables 3 to 23. For selected years (1978 and 1990) isopleth maps of SO₂ concentrations were developed for each strategy and are presented in Figures 2 to 13.

In order to better understand the relationship between source emissions rates and SO₂ concentrations, source/receptor tables were developed for the four modeling years for strategies 4, 5 and 6. Table 24 lists the 10 receptors for which the tables were developed. All of the tables are not presented in this report because of the large volume of data which resulted (~ 240 pages). In Appendix A, a sample output for a receptor is presented. For each source contributing more than 0.01 µg to the receptor's SO₂ concentration, the county and plant identification codes are printed along with the actual contribution to the receptor.

An analysis of the strategies was performed for 1978. The 1978 SO₂ concentrations from the proposed strategies are lower than the 1978 projected concentrations in the final report under EPA Contract No. 68-02-1376, Task Order No. 24 (Figure 25). The principal reason for the difference is that we had previously used existing sulfur in fuel data for the projections rather than the sulfur in fuel required by the applicable regulations. Additionally, the reduction in the emission rate for the Point 60 at the Gulf refinery produced a localized reduction in the SO₂ concentration in the southern portion of Philadelphia. In 1978 Strategy 1 (Figure 2) produces a maximum SO₂ concentration for the region of less than 70 µg/m³. The applicable regulations for the inner zone of Pennsylvania are more stringent than the current regulations although Philadelphia's residual oil regulation remains at 0.5 percent; New Jersey and Delaware are at their current regulations. Under Strategy 2,

Delaware is included under the proposed sulfur in fuel limits. A comparison of Figures 2 and 3 shows the resulting improvement in the air quality around the Wilmington, Delaware area. Figure 4 depicts the results of including New Jersey and Pennsylvania at the new sulfur in fuel limits with Delaware at existing regulations. The SO₂ concentrations increase in the Wilmington area and New Jersey. Figure 5 shows the effect of all jurisdictions following the proposed sulfur in fuel limits. In Figure 6, the results of each state implementing their current regulations are shown. The air quality is similar to requiring all states to apply the proposed sulfur in fuel limits, with a small degradation in the air quality in and near Delaware, and an improvement in the air quality in Philadelphia and the northern portions of the New Jersey sector. Figure 7 demonstrates the effect of requiring all inner zones to have a maximum of 0.2 percent sulfur in distillate oil. This is similar to Strategy 4 (Figure 5) and shows a marginal improvement in the air quality over that strategy.. Strategy 2 results in the lowest SO₂ concentrations since it tightens the regulations in the regions which are currently above the proposed sulfur in fuel limits. Strategy 5 comes very close to having the same SO₂ concentrations as Strategy 2, however, the air quality in the Wilmington area is degraded in Strategy 5 over Strategy 2.

The above comments for 1978 are also generally applicable to 1990, with the contours shifting outward from Philadelphia because of the growth in emissions. The central Philadelphia region which is experiencing the maximum SO₂ concentrations in 1978 shrinks in size for 1990. This improvement in air quality is primarily due to reduced emissions in Philadelphia and Eddystone power plant coming into compliance.

Tables 25 through 30 summarize the calculated annual concentrations of SO₂ from the six strategies modeled at four receptor sites. These are the same four sites identified in Table 54 of the previous study (EPA 903/9-77-030). Also, it should be noted that the 24 hour statistical analysis presented in the previous study is applicable to the present effort with similar limitations.

The air quality resulting from the sulfur in fuel limits proposed by DER and the two EPA strategies have been evaluated in this report. All these alternative strategies are likely to attain and maintain the national standards for SO₂ if they are implemented in the region.

TABLE 1. PROPOSED SO₂ CONTROL STRATEGY

Type of fuel	Percent sulfur in fuel		
	Inner zone	Outer zone	Philadelphia
Distillate oil	0.3	0.3	0.2
Residual oil	0.5	1.0	0.5
Coal (units < 250 MMBtu)	0.7*	0.8*	0.2
Coal (units > 250 MMBtu)	0.4*	0.8*	0.2

* Represents a conversion from an emission limitation to percent sulfur by weight.

1.2 lbs SO₂/10⁶ Btu ~0.8 percent sulfur

1.0 lbs SO₂/10⁶ Btu ~0.7 percent sulfur

0.6 lbs SO₂/10⁶ Btu ~0.4 percent sulfur

TABLE 2. EXISTING SULFUR IN FUEL REGULATIONS PERCENT SULFUR IN FUEL

Type of fuel	Delaware	New Jersey	Pennsylvania*	Philadelphia
Distillate oil	0.3	0.2	0.6 - 1.0 [†]	0.2
Residual oil	1.0	0.3	0.6 - 1.0	0.3
Coal	1.0	0.3 [‡]	0.4 - 0.7 [‡]	0.3 [‡]

* Pennsylvania regulations are stated in terms of emission limitations (pounds of SO₂ per million Btu of heat input). The numbers below are estimated conversions to percent sulfur.

† Modeled at 0.3 to reflect current and likely future usage.

‡ Adjusted manually to reflect actual usage and compliance schedules.

TABLE 3. 1974 SO₂ CONCENTRATIONS FOR STRATEGY 4

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	17.	2	455.0	4195.0	22.	3	455.0	4400.0	30.
4	455.0	4405.0	21.	5	455.0	4410.0	18.	6	455.0	4415.0	16.
7	455.0	4420.0	17.	8	455.0	4425.0	15.	9	455.0	4430.0	14.
10	455.0	4435.0	13.	11	455.0	4440.0	13.	12	455.0	4445.0	11.
13	455.0	4450.0	13.	14	455.0	4455.0	9.	15	455.0	4460.0	7.
16	460.0	4390.0	21.	17	460.0	4395.0	31.	18	460.0	4400.0	32.
19	460.0	4405.0	28.	20	460.0	4410.0	23.	21	460.0	4415.0	19.
22	460.0	4420.0	18.	23	460.0	4425.0	16.	24	460.0	4430.0	16.
25	460.0	4435.0	15.	26	460.0	4440.0	16.	27	460.0	4445.0	14.
28	460.0	4450.0	12.	29	460.0	4455.0	9.	30	460.0	4460.0	7.
31	465.0	4390.0	17.	32	465.0	4395.0	22.	33	465.0	4400.0	30.
34	465.0	4405.0	40.	35	465.0	4410.0	44.	36	465.0	4415.0	26.
37	465.0	4420.0	22.	38	465.0	4425.0	20.	39	465.0	4430.0	18.
40	465.0	4435.0	19.	41	465.0	4440.0	18.	42	465.0	4445.0	15.
43	465.0	4450.0	13.	44	465.0	4455.0	11.	45	465.0	4460.0	8.
46	470.0	4390.0	15.	47	470.0	4395.0	18.	48	470.0	4400.0	20.
49	470.0	4405.0	31.	50	470.0	4410.0	41.	51	470.0	4415.0	36.
52	470.0	4420.0	30.	53	470.0	4425.0	26.	54	470.0	4430.0	28.
55	470.0	4435.0	23.	56	470.0	4440.0	28.	57	470.0	4445.0	18.
58	470.0	4450.0	14.	59	470.0	4455.0	12.	60	470.0	4460.0	10.
61	475.0	4390.0	14.	62	475.0	4395.0	17.	63	475.0	4400.0	21.
64	475.0	4405.0	29.	65	475.0	4410.0	38.	66	475.0	4415.0	46.
67	475.0	4420.0	43.	68	475.0	4425.0	36.	69	475.0	4430.0	29.
70	475.0	4435.0	33.	71	475.0	4440.0	30.	72	475.0	4445.0	20.
73	475.0	4450.0	21.	74	475.0	4455.0	15.	75	475.0	4460.0	11.
76	480.0	4390.0	14.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	30.	80	480.0	4410.0	48.	81	480.0	4415.0	48.
82	480.0	4420.0	57.	83	480.0	4425.0	44.	84	480.0	4430.0	37.
85	480.0	4435.0	29.	86	480.0	4440.0	26.	87	480.0	4445.0	22.
88	480.0	4450.0	17.	89	480.0	4455.0	18.	90	480.0	4460.0	11.
91	485.0	4390.0	14.	92	485.0	4395.0	18.	93	485.0	4400.0	23.
94	485.0	4405.0	30.	95	485.0	4410.0	42.	96	485.0	4415.0	64.
97	485.0	4420.0	75.	98	485.0	4425.0	59.	99	485.0	4430.0	52.
100	485.0	4435.0	36.	101	485.0	4440.0	51.	102	485.0	4445.0	23.
103	485.0	4450.0	18.	104	485.0	4455.0	14.	105	485.0	4460.0	11.
106	490.0	4390.0	14.	107	490.0	4395.0	18.	108	490.0	4400.0	21.
109	490.0	4405.0	28.	110	490.0	4410.0	41.	111	490.0	4415.0	77.
112	490.0	4420.0	67.	113	490.0	4425.0	72.	114	490.0	4430.0	55.
115	490.0	4435.0	39.	116	490.0	4440.0	32.	117	490.0	4445.0	27.
118	490.0	4450.0	19.	119	490.0	4455.0	13.	120	490.0	4460.0	10.
121	495.0	4390.0	12.	122	495.0	4395.0	15.	123	495.0	4400.0	19.
124	495.0	4405.0	26.	125	495.0	4410.0	36.	126	495.0	4415.0	47.
127	495.0	4420.0	51.	128	495.0	4425.0	56.	129	495.0	4430.0	57.
130	495.0	4435.0	40.	131	495.0	4440.0	30.	132	495.0	4445.0	25.
133	495.0	4450.0	18.	134	495.0	4455.0	13.	135	495.0	4460.0	10.
136	500.0	4390.0	11.	137	500.0	4395.0	14.	138	500.0	4400.0	17.
139	500.0	4405.0	24.	140	500.0	4410.0	28.	141	500.0	4415.0	35.
142	500.0	4420.0	37.	143	500.0	4425.0	40.	144	500.0	4430.0	42.
145	500.0	4435.0	41.	146	500.0	4440.0	30.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 3 (continued).

NO.	EAST	NORTH	UG/Mee3	NO.	EAST	NORTH	UG/Mee3	NO.	EAST	NORTH	UG/Mee3
151	505.0	4390.0	10.	152	505.0	4395.0	12.	153	505.0	4400.0	15.
154	505.0	4405.0	19.	155	505.0	4410.0	22.	156	505.0	4415.0	26.
157	505.0	4420.0	28.	158	505.0	4425.0	31.	159	505.0	4430.0	36.
160	505.0	4435.0	49.	161	505.0	4440.0	32.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	14.	165	505.0	4460.0	11.
166	510.0	4390.0	9.	167	510.0	4395.0	11.	168	510.0	4400.0	13.
169	510.0	4405.0	16.	170	510.0	4410.0	18.	171	510.0	4415.0	21.
172	510.0	4420.0	23.	173	510.0	4425.0	26.	174	510.0	4430.0	33.
175	510.0	4435.0	35.	176	510.0	4440.0	35.	177	510.0	4445.0	30.
178	510.0	4450.0	21.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	8.	182	515.0	4395.0	10.	183	515.0	4400.0	11.
184	515.0	4405.0	13.	185	515.0	4410.0	15.	186	515.0	4415.0	17.
187	515.0	4420.0	19.	188	515.0	4425.0	22.	189	515.0	4430.0	26.
190	515.0	4435.0	34.	191	515.0	4440.0	35.	192	515.0	4445.0	31.
193	515.0	4450.0	26.	194	515.0	4455.0	22.	195	515.0	4460.0	10.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	10.
199	520.0	4405.0	11.	200	520.0	4410.0	13.	201	520.0	4415.0	15.
202	520.0	4420.0	17.	203	520.0	4425.0	20.	204	520.0	4430.0	23.
205	520.0	4435.0	26.	206	520.0	4440.0	27.	207	520.0	4445.0	36.
208	520.0	4450.0	45.	209	520.0	4455.0	29.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	9.	215	525.0	4410.0	11.	216	525.0	4415.0	13.
217	525.0	4420.0	15.	218	525.0	4425.0	17.	219	525.0	4430.0	19.
220	525.0	4435.0	21.	221	525.0	4440.0	26.	222	525.0	4445.0	41.
223	525.0	4450.0	33.	224	525.0	4455.0	25.	225	525.0	4460.0	16.
226	489.0	4421.4	64.								

TABLE 4. 1974 SO₂ CONCENTRATIONS FOR STRATEGY 5

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	20.	2	455.0	4395.0	25.	3	455.0	4400.0	36.
4	455.0	4405.0	24.	5	455.0	4410.0	19.	6	455.0	4415.0	16.
7	455.0	4420.0	16.	8	455.0	4425.0	15.	9	455.0	4430.0	14.
10	455.0	4435.0	13.	11	455.0	4440.0	13.	12	455.0	4445.0	11.
13	455.0	4450.0	12.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	21.	17	460.0	4395.0	31.	18	460.0	4400.0	38.
19	460.0	4405.0	32.	20	460.0	4410.0	25.	21	460.0	4415.0	19.
22	460.0	4420.0	18.	23	460.0	4425.0	16.	24	460.0	4430.0	16.
25	460.0	4435.0	15.	26	460.0	4440.0	16.	27	460.0	4445.0	14.
28	460.0	4450.0	12.	29	460.0	4455.0	9.	30	460.0	4460.0	7.
31	465.0	4390.0	18.	32	465.0	4395.0	23.	33	465.0	4400.0	32.
34	465.0	4405.0	45.	35	465.0	4410.0	49.	36	465.0	4415.0	28.
37	465.0	4420.0	22.	38	465.0	4425.0	20.	39	465.0	4430.0	18.
40	465.0	4435.0	20.	41	465.0	4440.0	19.	42	465.0	4445.0	16.
43	465.0	4450.0	13.	44	465.0	4455.0	11.	45	465.0	4460.0	8.
46	470.0	4390.0	16.	47	470.0	4395.0	19.	48	470.0	4400.0	25.
49	470.0	4405.0	33.	50	470.0	4410.0	45.	51	470.0	4415.0	39.
52	470.0	4420.0	31.	53	470.0	4425.0	27.	54	470.0	4430.0	25.
55	470.0	4435.0	25.	56	470.0	4440.0	31.	57	470.0	4445.0	18.
58	470.0	4450.0	15.	59	470.0	4455.0	12.	60	470.0	4460.0	10.
61	475.0	4390.0	15.	62	475.0	4395.0	18.	63	475.0	4400.0	22.
64	475.0	4405.0	30.	65	475.0	4410.0	40.	66	475.0	4415.0	48.
67	475.0	4420.0	45.	68	475.0	4425.0	37.	69	475.0	4430.0	31.
70	475.0	4435.0	40.	71	475.0	4440.0	34.	72	475.0	4445.0	21.
73	475.0	4450.0	23.	74	475.0	4455.0	15.	75	475.0	4460.0	11.
76	480.0	4390.0	14.	77	480.0	4395.0	17.	78	480.0	4400.0	23.
79	480.0	4405.0	30.	80	480.0	4410.0	48.	81	480.0	4415.0	47.
82	480.0	4420.0	55.	83	480.0	4425.0	43.	84	480.0	4430.0	37.
85	480.0	4435.0	31.	86	480.0	4440.0	27.	87	480.0	4445.0	22.
88	480.0	4450.0	18.	89	480.0	4455.0	14.	90	480.0	4460.0	11.
91	485.0	4390.0	14.	92	485.0	4395.0	17.	93	485.0	4400.0	22.
94	485.0	4405.0	28.	95	485.0	4410.0	40.	96	485.0	4415.0	59.
97	485.0	4420.0	71.	98	485.0	4425.0	56.	99	485.0	4430.0	48.
100	485.0	4435.0	36.	101	485.0	4440.0	32.	102	485.0	4445.0	23.
103	485.0	4450.0	18.	104	485.0	4455.0	13.	105	485.0	4460.0	10.
106	490.0	4390.0	13.	107	490.0	4395.0	16.	108	490.0	4400.0	19.
109	490.0	4405.0	25.	110	490.0	4410.0	37.	111	490.0	4415.0	65.
112	490.0	4420.0	57.	113	490.0	4425.0	64.	114	490.0	4430.0	50.
115	490.0	4435.0	38.	116	490.0	4440.0	33.	117	490.0	4445.0	27.
118	490.0	4450.0	18.	119	490.0	4455.0	13.	120	490.0	4460.0	10.
121	495.0	4390.0	11.	122	495.0	4395.0	16.	123	495.0	4400.0	17.
124	495.0	4405.0	22.	125	495.0	4410.0	30.	126	495.0	4415.0	39.
127	495.0	4420.0	43.	128	495.0	4425.0	48.	129	495.0	4430.0	50.
130	495.0	4435.0	38.	131	495.0	4440.0	30.	132	495.0	4445.0	24.
133	495.0	4450.0	18.	134	495.0	4455.0	13.	135	495.0	4460.0	10.
136	500.0	4390.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	15.
139	500.0	4405.0	20.	140	500.0	4410.0	24.	141	500.0	4415.0	28.
142	500.0	4420.0	31.	143	500.0	4425.0	34.	144	500.0	4430.0	37.
145	500.0	4435.0	37.	146	500.0	4440.0	29.	147	500.0	4445.0	24.
148	500.0	4450.0	17.	149	500.0	4455.0	12.	150	500.0	4460.0	9.

TABLE 4 (continued).

NO.	EAST	NORTH	UG/M ^{±3}	NO.	EAST	NORTH	UG/M ^{±3}	NO.	EAST	NORTH	UG/M ^{±3}
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	13.
154	505.0	4405.0	16.	155	505.0	4410.0	19.	156	505.0	4415.0	22.
157	505.0	4420.0	24.	158	505.0	4425.0	26.	159	505.0	4430.0	31.
160	505.0	4435.0	45.	161	505.0	4440.0	31.	162	505.0	4445.0	26.
163	505.0	4450.0	18.	164	505.0	4455.0	13.	165	505.0	4460.0	10.
166	510.0	4390.0	8.	167	510.0	4395.0	10.	168	510.0	4400.0	12.
169	510.0	4405.0	13.	170	510.0	4410.0	16.	171	510.0	4415.0	18.
172	510.0	4420.0	20.	173	510.0	4425.0	22.	174	510.0	4430.0	27.
175	510.0	4435.0	32.	176	510.0	4440.0	34.	177	510.0	4445.0	28.
178	510.0	4450.0	19.	179	510.0	4455.0	14.	180	510.0	4460.0	11.
181	515.0	4390.0	7.	182	515.0	4395.0	9.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	15.
187	515.0	4420.0	16.	188	515.0	4425.0	19.	189	515.0	4430.0	22.
190	515.0	4435.0	30.	191	515.0	4440.0	33.	192	515.0	4445.0	30.
193	515.0	4450.0	23.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	9.
199	520.0	4405.0	10.	200	520.0	4410.0	11.	201	520.0	4415.0	13.
202	520.0	4420.0	14.	203	520.0	4425.0	17.	204	520.0	4430.0	19.
205	520.0	4435.0	23.	206	520.0	4440.0	25.	207	520.0	4445.0	33.
208	520.0	4450.0	33.	209	520.0	4455.0	21.	210	520.0	4460.0	13.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	12.	218	525.0	4425.0	14.	219	525.0	4430.0	16.
220	525.0	4435.0	18.	221	525.0	4440.0	24.	222	525.0	4445.0	38.
223	525.0	4450.0	26.	224	525.0	4455.0	19.	225	525.0	4460.0	13.
226	489.0	4421.0	50.								

TABLE 5. 1974 SO₂ CONCENTRATIONS FOR STRATEGY 6

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	17.	2	455.0	4395.0	21.	3	455.0	4460.0	27.
4	455.0	4405.0	20.	5	455.0	4410.0	17.	6	455.0	4415.0	16.
7	455.0	4420.0	16.	8	455.0	4425.0	15.	9	455.0	4430.0	10.
10	455.0	4435.0	13.	11	455.0	4440.0	13.	12	455.0	4445.0	10.
13	455.0	4450.0	12.	14	455.0	4455.0	9.	15	455.0	4460.0	7.
16	460.0	4390.0	20.	17	460.0	4395.0	30.	18	460.0	4400.0	31.
19	460.0	4405.0	27.	20	460.0	4410.0	22.	21	460.0	4415.0	18.
22	460.0	4420.0	17.	23	460.0	4425.0	16.	24	460.0	4430.0	15.
25	460.0	4435.0	19.	26	460.0	4440.0	16.	27	460.0	4445.0	14.
28	460.0	4450.0	12.	29	460.0	4455.0	9.	30	460.0	4460.0	7.
31	465.0	4390.0	16.	32	465.0	4395.0	21.	33	465.0	4400.0	29.
34	465.0	4405.0	39.	35	465.0	4410.0	92.	36	465.0	4415.0	25.
37	465.0	4420.0	21.	38	465.0	4425.0	19.	39	465.0	4430.0	17.
40	465.0	4435.0	18.	41	465.0	4440.0	18.	42	465.0	4445.0	15.
43	465.0	4450.0	12.	44	465.0	4455.0	11.	45	465.0	4460.0	8.
46	470.0	4390.0	15.	47	470.0	4395.0	18.	48	470.0	4400.0	23.
49	470.0	4405.0	30.	50	470.0	4410.0	39.	51	470.0	4415.0	34.
52	470.0	4420.0	28.	53	470.0	4425.0	25.	54	470.0	4430.0	23.
55	470.0	4435.0	22.	56	470.0	4440.0	26.	57	470.0	4445.0	17.
58	470.0	4450.0	14.	59	470.0	4455.0	12.	60	470.0	4460.0	10.
61	475.0	4390.0	14.	62	475.0	4395.0	17.	63	475.0	4400.0	20.
64	475.0	4405.0	28.	65	475.0	4410.0	36.	66	475.0	4415.0	43.
67	475.0	4420.0	40.	68	475.0	4425.0	33.	69	475.0	4430.0	27.
70	475.0	4435.0	31.	71	475.0	4440.0	28.	72	475.0	4445.0	19.
73	475.0	4450.0	20.	74	475.0	4455.0	15.	75	475.0	4460.0	11.
76	480.0	4390.0	13.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	29.	80	480.0	4410.0	47.	81	480.0	4415.0	46.
82	480.0	4420.0	55.	83	480.0	4425.0	42.	84	480.0	4430.0	36.
85	480.0	4435.0	28.	86	480.0	4440.0	25.	87	480.0	4445.0	21.
88	480.0	4450.0	17.	89	480.0	4455.0	16.	90	480.0	4460.0	11.
91	485.0	4390.0	14.	92	485.0	4395.0	17.	93	485.0	4400.0	22.
94	485.0	4405.0	50.	95	485.0	4410.0	41.	96	485.0	4415.0	62.
97	485.0	4420.0	71.	98	485.0	4425.0	58.	99	485.0	4430.0	51.
100	485.0	4435.0	35.	101	485.0	4440.0	30.	102	485.0	4445.0	22.
103	485.0	4450.0	17.	104	485.0	4455.0	18.	105	485.0	4460.0	11.
106	490.0	4390.0	13.	107	490.0	4395.0	17.	108	490.0	4400.0	21.
109	490.0	4405.0	28.	110	490.0	4410.0	40.	111	490.0	4415.0	74.
112	490.0	4420.0	64.	113	490.0	4425.0	71.	114	490.0	4430.0	53.
115	490.0	4435.0	37.	116	490.0	4440.0	31.	117	490.0	4445.0	26.
118	490.0	4450.0	16.	119	490.0	4455.0	13.	120	490.0	4460.0	10.
121	495.0	4390.0	12.	122	495.0	4395.0	15.	123	495.0	4400.0	19.
124	495.0	4405.0	25.	125	495.0	4410.0	35.	126	495.0	4415.0	45.
127	495.0	4420.0	48.	128	495.0	4425.0	55.	129	495.0	4430.0	56.
130	495.0	4435.0	39.	131	495.0	4440.0	29.	132	495.0	4445.0	28.
133	495.0	4450.0	18.	134	495.0	4455.0	13.	135	495.0	4460.0	10.
136	500.0	4390.0	11.	137	500.0	4395.0	13.	138	500.0	4400.0	17.
139	500.0	4405.0	24.	140	500.0	4410.0	27.	141	500.0	4415.0	33.
142	500.0	4420.0	36.	143	500.0	4425.0	39.	144	500.0	4430.0	42.
145	500.0	4435.0	66.	146	500.0	4440.0	36.	147	500.0	4445.0	24.
148	500.0	4450.0	17.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 5 (continued).

NO.	EAST	NORTH	UG/M ₂₊₃	NO.	EAST	NORTH	UG/M ₂₊₃	NO.	EAST	NORTH	UG/M ₂₊₃
151	505.0	4390.0	10.	152	505.0	4395.0	12.	153	505.0	4400.0	15.
150	505.0	4405.0	18.	155	505.0	4410.0	22.	156	505.0	4415.0	26.
157	505.0	4420.0	27.	158	505.0	4425.0	30.	159	505.0	4430.0	35.
160	505.0	4435.0	48.	161	505.0	4440.0	31.	162	505.0	4445.0	27.
163	505.0	4450.0	18.	164	505.0	4455.0	13.	165	505.0	4460.0	10.
166	510.0	4390.0	9.	167	510.0	4395.0	11.	168	510.0	4400.0	13.
169	510.0	4405.0	15.	170	510.0	4410.0	18.	171	510.0	4415.0	20.
172	510.0	4420.0	23.	173	510.0	4425.0	26.	174	510.0	4430.0	32.
175	510.0	4435.0	34.	176	510.0	4440.0	34.	177	510.0	4445.0	29.
178	510.0	4450.0	21.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	8.	182	515.0	4395.0	9.	183	515.0	4400.0	11.
184	515.0	4405.0	13.	185	515.0	4410.0	15.	186	515.0	4415.0	17.
187	515.0	4420.0	19.	188	515.0	4425.0	22.	189	515.0	4430.0	25.
190	515.0	4435.0	36.	191	515.0	4440.0	34.	192	515.0	4445.0	30.
193	515.0	4450.0	25.	194	515.0	4455.0	21.	195	515.0	4460.0	13.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	9.
199	520.0	4405.0	11.	200	520.0	4410.0	13.	201	520.0	4415.0	14.
202	520.0	4420.0	16.	203	520.0	4425.0	20.	204	520.0	4430.0	23.
205	520.0	4435.0	26.	206	520.0	4440.0	27.	207	520.0	4445.0	35.
208	520.0	4450.0	46.	209	520.0	4455.0	28.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	9.	215	525.0	4410.0	11.	216	525.0	4415.0	12.
217	525.0	4420.0	14.	218	525.0	4425.0	17.	219	525.0	4430.0	18.
220	525.0	4435.0	20.	221	525.0	4440.0	26.	222	525.0	4445.0	61.
223	525.0	4450.0	32.	224	525.0	4455.0	25.	225	525.0	4460.0	16.
226	489.4	4821.4	62.								

TABLE 6. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 1

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4300.0	19.	2	455.0	4395.0	27.	3	455.0	4400.0	42.
4	455.0	4405.0	28.	5	455.0	4410.0	21.	6	455.0	4415.0	18.
7	455.0	4420.0	19.	8	455.0	4425.0	17.	9	455.0	4430.0	16.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4300.0	19.	17	460.0	4395.0	29.	18	460.0	4400.0	40.
19	460.0	4405.0	37.	20	460.0	4410.0	28.	21	460.0	4415.0	21.
22	460.0	4420.0	20.	23	460.0	4425.0	18.	24	460.0	4430.0	18.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	14.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4300.0	16.	32	465.0	4395.0	21.	33	465.0	4400.0	30.
34	465.0	4405.0	43.	35	465.0	4410.0	51.	36	465.0	4415.0	29.
37	465.0	4420.0	20.	38	465.0	4425.0	22.	39	465.0	4430.0	20.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4300.0	14.	47	470.0	4395.0	14.	48	470.0	4400.0	24.
49	470.0	4405.0	52.	50	470.0	4410.0	42.	51	470.0	4415.0	39.
52	470.0	4420.0	32.	53	470.0	4425.0	28.	54	470.0	4430.0	26.
55	470.0	4435.0	26.	56	470.0	4440.0	31.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4300.0	13.	62	475.0	4395.0	16.	63	475.0	4400.0	21.
64	475.0	4405.0	29.	65	475.0	4410.0	38.	66	475.0	4415.0	48.
67	475.0	4420.0	46.	68	475.0	4425.0	38.	69	475.0	4430.0	31.
70	475.0	4435.0	34.	71	475.0	4440.0	32.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4300.0	17.	77	480.0	4395.0	16.	78	480.0	4400.0	21.
79	480.0	4405.0	24.	80	480.0	4410.0	47.	81	480.0	4415.0	47.
82	480.0	4420.0	57.	83	480.0	4425.0	45.	84	480.0	4430.0	39.
85	480.0	4435.0	31.	86	480.0	4440.0	27.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4300.0	12.	92	485.0	4395.0	15.	93	485.0	4400.0	20.
94	485.0	4405.0	27.	95	485.0	4410.0	38.	96	485.0	4415.0	56.
97	485.0	4420.0	68.	98	485.0	4425.0	58.	99	485.0	4430.0	47.
100	485.0	4435.0	57.	101	485.0	4440.0	33.	102	485.0	4445.0	24.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	11.
106	490.0	4300.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	18.
109	490.0	4405.0	24.	110	490.0	4410.0	33.	111	490.0	4415.0	58.
112	490.0	4420.0	50.	113	490.0	4425.0	64.	114	490.0	4430.0	52.
115	490.0	4435.0	34.	116	490.0	4440.0	35.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4300.0	19.	122	495.0	4395.0	13.	123	495.0	4400.0	16.
124	495.0	4405.0	24.	125	495.0	4410.0	27.	126	495.0	4415.0	35.
127	495.0	4420.0	39.	128	495.0	4425.0	46.	129	495.0	4430.0	52.
130	495.0	4435.0	39.	131	495.0	4440.0	31.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	10.
136	500.0	4300.0	10.	137	500.0	4395.0	11.	138	500.0	4400.0	18.
139	500.0	4405.0	16.	140	500.0	4410.0	22.	141	500.0	4415.0	25.
142	500.0	4420.0	28.	143	500.0	4425.0	32.	144	500.0	4430.0	36.
145	500.0	4435.0	38.	146	500.0	4440.0	30.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	18.

TABLE 6 (continued).

NO.	EAST	NORTH	UG/Mee3	NO.	EAST	NORTH	UG/Mee3	NO.	EAST	NORTH	UG/Mee3
151	505.0	4390.0	8.	152	505.0	4395.0	10.	153	505.0	4400.0	12.
154	505.0	4405.0	15.	155	505.0	4410.0	17.	156	505.0	4415.0	20.
157	505.0	4420.0	22.	158	505.0	4425.0	24.	159	505.0	4430.0	29.
160	505.0	4435.0	30.	161	505.0	4440.0	31.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	14.	165	505.0	4460.0	11.
166	510.0	4390.0	9.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	12.	170	510.0	4410.0	14.	171	510.0	4415.0	16.
172	510.0	4420.0	18.	173	510.0	4425.0	20.	174	510.0	4430.0	25.
175	510.0	4435.0	32.	176	510.0	4440.0	34.	177	510.0	4445.0	30.
178	510.0	4450.0	20.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4400.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	9.
184	515.0	4405.0	11.	185	515.0	4410.0	12.	186	515.0	4415.0	13.
187	515.0	4420.0	15.	188	515.0	4425.0	17.	189	515.0	4430.0	19.
190	515.0	4435.0	27.	191	515.0	4440.0	30.	192	515.0	4445.0	30.
193	515.0	4450.0	25.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	9.	200	520.0	4410.0	10.	201	520.0	4415.0	12.
202	520.0	4420.0	13.	203	520.0	4425.0	15.	204	520.0	4430.0	17.
205	520.0	4435.0	20.	206	520.0	4440.0	22.	207	520.0	4445.0	24.
208	520.0	4450.0	30.	209	520.0	4455.0	20.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	9.	216	525.0	4415.0	10.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	15.
220	525.0	4435.0	16.	221	525.0	4440.0	21.	222	525.0	4445.0	35.
223	525.0	4450.0	25.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	489.4	4421.4	50.								

TABLE 7. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 2

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	16.	2	455.0	4395.0	22.	3	455.0	4400.0	32.
4	455.0	4405.0	23.	5	455.0	4410.0	19.	6	455.0	4415.0	17.
7	455.0	4420.0	17.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	16.	17	460.0	4395.0	25.	18	460.0	4400.0	30.
19	460.0	4405.0	31.	20	460.0	4410.0	25.	21	460.0	4415.0	20.
22	460.0	4420.0	16.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	13.	32	465.0	4395.0	18.	33	465.0	4400.0	25.
34	465.0	4410.0	34.	35	465.0	4410.0	47.	36	465.0	4415.0	27.
37	465.0	4420.0	23.	38	465.0	4425.0	21.	39	465.0	4430.0	19.
40	465.0	4435.0	20.	41	465.0	4440.0	20.	42	465.0	4445.0	17.
43	465.0	4450.0	13.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	13.	47	470.0	4395.0	16.	48	470.0	4400.0	21.
49	470.0	4405.0	30.	50	470.0	4410.0	40.	51	470.0	4415.0	37.
52	470.0	4420.0	31.	53	470.0	4425.0	27.	54	470.0	4430.0	25.
55	470.0	4435.0	25.	56	470.0	4440.0	31.	57	470.0	4445.0	19.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	12.	62	475.0	4395.0	15.	63	475.0	4400.0	19.
64	475.0	4405.0	27.	65	475.0	4410.0	37.	66	475.0	4415.0	46.
67	475.0	4420.0	45.	68	475.0	4425.0	37.	69	475.0	4430.0	30.
70	475.0	4435.0	34.	71	475.0	4440.0	31.	72	475.0	4445.0	21.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	11.	77	480.0	4395.0	15.	78	480.0	4400.0	19.
79	480.0	4405.0	24.	80	480.0	4410.0	46.	81	480.0	4415.0	46.
82	480.0	4420.0	56.	83	480.0	4425.0	44.	84	480.0	4430.0	30.
85	480.0	4435.0	31.	86	480.0	4440.0	27.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	11.	92	485.0	4395.0	15.	93	485.0	4400.0	19.
94	485.0	4405.0	26.	95	485.0	4410.0	37.	96	485.0	4415.0	56.
97	485.0	4420.0	67.	98	485.0	4425.0	58.	99	485.0	4430.0	46.
100	490.0	4395.0	36.	101	495.0	4440.0	32.	102	495.0	4445.0	24.
103	495.0	4450.0	19.	104	495.0	4455.0	14.	105	495.0	4460.0	11.
106	490.0	4490.0	11.	107	490.0	4595.0	14.	108	490.0	4400.0	17.
109	490.0	4405.0	23.	110	490.0	4410.0	33.	111	490.0	4415.0	57.
112	490.0	4420.0	53.	113	490.0	4425.0	64.	114	490.0	4430.0	51.
115	490.0	4435.0	38.	116	490.0	4440.0	32.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	10.	122	495.0	4395.0	12.	123	495.0	4400.0	15.
124	495.0	4405.0	20.	125	495.0	4410.0	27.	126	495.0	4415.0	30.
127	495.0	4420.0	39.	128	495.0	4425.0	46.	129	495.0	4430.0	52.
130	495.0	4435.0	38.	131	495.0	4440.0	30.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	10.
136	500.0	4390.0	4.	137	500.0	4395.0	11.	138	500.0	4400.0	13.
139	500.0	4405.0	10.	140	500.0	4410.0	21.	141	500.0	4415.0	25.
142	500.0	4420.0	26.	143	500.0	4425.0	32.	144	500.0	4430.0	36.
145	500.0	4435.0	37.	146	500.0	4440.0	30.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 7 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	8.	152	505.0	4395.0	10.	153	505.0	4400.0	12.
151	505.0	4405.0	14.	155	505.0	4410.0	17.	156	505.0	4415.0	20.
157	505.0	4420.0	21.	158	505.0	4425.0	24.	159	505.0	4430.0	29.
160	505.0	4435.0	50.	161	505.0	4440.0	31.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	18.	165	505.0	4460.0	11.
166	510.0	4390.0	7.	167	510.0	4395.0	9.	168	510.0	4400.0	10.
169	510.0	4405.0	12.	170	510.0	4410.0	14.	171	510.0	4415.0	16.
172	510.0	4420.0	18.	173	510.0	4425.0	19.	174	510.0	4430.0	24.
175	510.0	4435.0	31.	176	510.0	4440.0	37.	177	510.0	4445.0	29.
179	510.0	4450.0	20.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	9.
184	515.0	4405.0	10.	185	515.0	4410.0	12.	186	515.0	4415.0	13.
187	515.0	4420.0	15.	188	515.0	4425.0	17.	189	515.0	4430.0	19.
190	515.0	4435.0	21.	191	515.0	4440.0	30.	192	515.0	4445.0	29.
193	515.0	4450.0	23.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	9.	200	520.0	4410.0	10.	201	520.0	4415.0	11.
202	520.0	4420.0	15.	203	520.0	4425.0	15.	204	520.0	4430.0	17.
205	520.0	4435.0	26.	206	520.0	4440.0	22.	207	520.0	4445.0	30.
208	520.0	4450.0	30.	209	520.0	4455.0	20.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	9.	215	525.0	4410.0	9.	216	525.0	4415.0	10.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	14.
220	525.0	4435.0	16.	221	525.0	4440.0	21.	222	525.0	4445.0	35.
223	525.0	4450.0	25.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	529.0	4421.0	53.								

TABLE 8. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 3

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	21.	2	455.0	4395.0	29.	3	455.0	4400.0	44.
4	455.0	4405.0	29.	5	455.0	4410.0	22.	6	455.0	4415.0	19.
7	455.0	4420.0	19.	8	455.0	4425.0	17.	9	455.0	4430.0	16.
10	455.0	4435.0	15.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	10.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	22.	17	460.0	4395.0	34.	18	460.0	4400.0	45.
19	460.0	4405.0	38.	20	460.0	4410.0	29.	21	460.0	4415.0	22.
22	460.0	4420.0	20.	23	460.0	4425.0	10.	24	460.0	4430.0	18.
25	460.0	4435.0	17.	26	460.0	4440.0	18.	27	460.0	4445.0	16.
28	460.0	4450.0	14.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	14.	32	465.0	4395.0	24.	33	465.0	4400.0	34.
34	465.0	4405.0	45.	35	465.0	4410.0	52.	36	465.0	4415.0	30.
37	465.0	4420.0	25.	38	465.0	4425.0	23.	39	465.0	4430.0	20.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	10.
46	470.0	4390.0	16.	47	470.0	4395.0	20.	48	470.0	4400.0	26.
49	470.0	4405.0	35.	50	470.0	4410.0	40.	51	470.0	4415.0	40.
52	470.0	4420.0	33.	53	470.0	4425.0	29.	54	470.0	4430.0	26.
55	470.0	4435.0	26.	56	470.0	4440.0	31.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	14.	60	470.0	4460.0	12.
61	475.0	4390.0	14.	62	475.0	4395.0	18.	63	475.0	4400.0	22.
64	475.0	4405.0	31.	65	475.0	4410.0	40.	66	475.0	4415.0	39.
67	475.0	4420.0	47.	68	475.0	4425.0	39.	69	475.0	4430.0	32.
70	475.0	4435.0	35.	71	475.0	4440.0	32.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	13.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	31.	80	480.0	4410.0	49.	81	480.0	4415.0	49.
82	480.0	4420.0	58.	83	480.0	4425.0	46.	84	480.0	4430.0	40.
85	480.0	4435.0	32.	86	480.0	4440.0	28.	87	480.0	4445.0	24.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	13.	92	485.0	4395.0	17.	93	485.0	4400.0	22.
94	485.0	4405.0	29.	95	485.0	4410.0	40.	96	485.0	4415.0	59.
97	485.0	4420.0	70.	98	485.0	4425.0	60.	99	485.0	4430.0	48.
100	485.0	4435.0	38.	101	485.0	4440.0	33.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	12.
106	490.0	4390.0	13.	107	490.0	4395.0	16.	108	490.0	4400.0	20.
109	490.0	4405.0	26.	110	490.0	4410.0	37.	111	490.0	4415.0	66.
112	490.0	4420.0	59.	113	490.0	4425.0	67.	114	490.0	4430.0	54.
115	490.0	4435.0	40.	116	490.0	4440.0	34.	117	490.0	4445.0	29.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	12.	122	495.0	4395.0	14.	123	495.0	4400.0	18.
124	495.0	4405.0	23.	125	495.0	4410.0	31.	126	495.0	4415.0	40.
127	495.0	4420.0	48.	128	495.0	4425.0	51.	129	495.0	4430.0	55.
130	495.0	4435.0	40.	131	495.0	4440.0	32.	132	495.0	4445.0	27.
133	495.0	4450.0	20.	134	495.0	4455.0	14.	135	495.0	4460.0	11.
136	500.0	4390.0	11.	137	500.0	4395.0	13.	138	500.0	4400.0	16.
139	500.0	4405.0	21.	140	500.0	4410.0	25.	141	500.0	4415.0	30.
142	500.0	4420.0	32.	143	500.0	4425.0	36.	144	500.0	4430.0	40.
145	500.0	4435.0	40.	146	500.0	4440.0	32.	147	500.0	4445.0	26.
148	500.0	4450.0	19.	149	500.0	4455.0	14.	150	500.0	4460.0	11.

TABLE 8 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	18.	152	505.0	4395.0	11.	153	505.0	4400.0	14.
154	505.0	4405.0	17.	155	505.0	4410.0	20.	156	505.0	4415.0	23.
157	505.0	4420.0	25.	158	505.0	4425.0	28.	159	505.0	4430.0	34.
160	505.0	4435.0	50.	161	505.0	4440.0	33.	162	505.0	4445.0	29.
163	505.0	4450.0	20.	164	505.0	4455.0	15.	165	505.0	4460.0	11.
166	510.0	4390.0	9.	167	510.0	4395.0	10.	168	510.0	4400.0	12.
169	510.0	4405.0	10.	170	510.0	4410.0	16.	171	510.0	4415.0	18.
172	510.0	4420.0	21.	173	510.0	4425.0	23.	174	510.0	4430.0	30.
175	510.0	4435.0	35.	176	510.0	4440.0	36.	177	510.0	4445.0	31.
178	510.0	4450.0	22.	179	510.0	4455.0	17.	180	510.0	4460.0	13.
181	515.0	4390.0	8.	182	515.0	4395.0	9.	183	515.0	4400.0	10.
184	515.0	4405.0	12.	185	515.0	4410.0	14.	186	515.0	4415.0	15.
187	515.0	4420.0	17.	188	515.0	4425.0	20.	189	515.0	4430.0	23.
190	515.0	4435.0	32.	191	515.0	4440.0	34.	192	515.0	4445.0	37.
193	515.0	4450.0	26.	194	515.0	4455.0	21.	195	515.0	4460.0	14.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	9.
199	520.0	4405.0	10.	200	520.0	4410.0	12.	201	520.0	4415.0	13.
202	520.0	4420.0	15.	203	520.0	4425.0	18.	204	520.0	4430.0	21.
205	520.0	4435.0	20.	206	520.0	4440.0	25.	207	520.0	4445.0	38.
208	520.0	4450.0	41.	209	520.0	4455.0	27.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	9.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	13.	218	525.0	4425.0	16.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	24.	222	525.0	4445.0	39.
223	525.0	4450.0	30.	224	525.0	4455.0	23.	225	525.0	4460.0	15.
226	484.0	4421.4	57.								

TABLE 9. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 4

NO.	FAST	NORTH	UG/m ³	NO.	FAST	NORTH	UG/m ³	NO.	FAST	NORTH	UG/m ³
1	455.0	4390.0	17.	2	455.0	4395.0	24.	3	455.0	4400.0	30.
4	455.0	4405.0	24.	5	455.0	4410.0	20.	6	455.0	4415.0	17.
7	455.0	4420.0	18.	8	455.0	4425.0	16.	9	455.0	4430.0	16.
10	455.0	4435.0	18.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	19.	17	460.0	4395.0	30.	18	460.0	4400.0	35.
19	460.0	4405.0	32.	20	460.0	4410.0	26.	21	460.0	4415.0	21.
22	460.0	4420.0	19.	23	460.0	4425.0	18.	24	460.0	4430.0	18.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	14.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	16.	32	465.0	4395.0	21.	33	465.0	4400.0	29.
34	465.0	4405.0	40.	35	465.0	4410.0	48.	36	465.0	4415.0	28.
37	465.0	4420.0	24.	38	465.0	4425.0	22.	39	465.0	4430.0	20.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	14.	47	470.0	4395.0	18.	48	470.0	4400.0	23.
49	470.0	4405.0	32.	50	470.0	4410.0	41.	51	470.0	4415.0	39.
52	470.0	4420.0	32.	53	470.0	4425.0	28.	54	470.0	4430.0	26.
55	470.0	4435.0	26.	56	470.0	4440.0	31.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	12.
61	475.0	4390.0	13.	62	475.0	4395.0	16.	63	475.0	4400.0	20.
64	475.0	4405.0	29.	65	475.0	4410.0	39.	66	475.0	4415.0	48.
67	475.0	4420.0	46.	68	475.0	4425.0	38.	69	475.0	4430.0	31.
70	475.0	4435.0	35.	71	475.0	4440.0	32.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	12.	77	480.0	4395.0	16.	78	480.0	4400.0	21.
79	480.0	4405.0	29.	80	480.0	4410.0	48.	81	480.0	4415.0	48.
82	480.0	4420.0	57.	83	480.0	4425.0	45.	84	480.0	4430.0	39.
85	480.0	4435.0	32.	86	480.0	4440.0	28.	87	480.0	4445.0	24.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	13.	92	485.0	4395.0	16.	93	485.0	4400.0	21.
94	485.0	4405.0	28.	95	485.0	4410.0	39.	96	485.0	4415.0	59.
97	485.0	4420.0	69.	98	485.0	4425.0	60.	99	485.0	4430.0	48.
100	485.0	4435.0	37.	101	485.0	4440.0	33.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	12.
106	490.0	4390.0	12.	107	490.0	4395.0	16.	108	490.0	4400.0	19.
109	490.0	4405.0	26.	110	490.0	4410.0	36.	111	490.0	4415.0	65.
112	490.0	4420.0	58.	113	490.0	4425.0	67.	114	490.0	4430.0	53.
115	490.0	4435.0	40.	116	490.0	4440.0	33.	117	490.0	4445.0	29.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	11.	122	495.0	4395.0	14.	123	495.0	4400.0	14.
124	495.0	4405.0	22.	125	495.0	4410.0	31.	126	495.0	4415.0	60.
127	495.0	4420.0	43.	128	495.0	4425.0	50.	129	495.0	4430.0	56.
130	495.0	4435.0	40.	131	495.0	4440.0	31.	132	495.0	4445.0	26.
133	495.0	4450.0	20.	134	495.0	4455.0	14.	135	495.0	4460.0	11.
136	500.0	4390.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	15.
139	500.0	4405.0	21.	140	500.0	4410.0	25.	141	500.0	4415.0	30.
142	500.0	4420.0	32.	143	500.0	4425.0	36.	144	500.0	4430.0	39.
145	500.0	4435.0	40.	146	500.0	4440.0	31.	147	500.0	4445.0	26.
148	500.0	4450.0	19.	149	500.0	4455.0	14.	150	500.0	4460.0	11.

TABLE 9 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	14.
154	505.0	4405.0	17.	155	505.0	4410.0	20.	156	505.0	4415.0	23.
157	505.0	4420.0	25.	158	505.0	4425.0	28.	159	505.0	4430.0	33.
160	505.0	4435.0	54.	161	505.0	4440.0	33.	162	505.0	4445.0	29.
163	505.0	4450.0	20.	164	505.0	4455.0	15.	165	505.0	4460.0	11.
166	510.0	4390.0	8.	167	510.0	4395.0	10.	168	510.0	4400.0	12.
169	510.0	4405.0	14.	170	510.0	4410.0	16.	171	510.0	4415.0	18.
172	510.0	4420.0	20.	173	510.0	4425.0	23.	174	510.0	4430.0	30.
175	510.0	4435.0	35.	176	510.0	4440.0	36.	177	510.0	4445.0	31.
178	510.0	4450.0	22.	179	510.0	4455.0	17.	180	510.0	4460.0	12.
181	515.0	4390.0	7.	182	515.0	4395.0	9.	183	515.0	4400.0	10.
184	515.0	4405.0	12.	185	515.0	4410.0	14.	186	515.0	4415.0	15.
187	515.0	4420.0	17.	188	515.0	4425.0	20.	189	515.0	4430.0	23.
190	515.0	4435.0	32.	191	515.0	4440.0	36.	192	515.0	4445.0	32.
193	515.0	4450.0	26.	194	515.0	4455.0	21.	195	515.0	4460.0	14.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	9.
199	520.0	4405.0	10.	200	520.0	4410.0	12.	201	520.0	4415.0	13.
202	520.0	4420.0	15.	203	520.0	4425.0	18.	204	520.0	4430.0	21.
205	520.0	4435.0	24.	206	520.0	4440.0	25.	207	520.0	4445.0	36.
208	520.0	4450.0	41.	209	520.0	4455.0	27.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	9.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	13.	218	525.0	4425.0	16.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	26.	222	525.0	4445.0	39.
223	525.0	4450.0	30.	224	525.0	4455.0	23.	225	525.0	4460.0	15.
226	489.0	4421.0	57.								

TABLE 10. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 5

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	19.	2	455.0	4395.0	27.	3	455.0	4400.0	42.
4	455.0	4405.0	28.	5	455.0	4410.0	21.	6	455.0	4415.0	18.
7	455.0	4420.0	18.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	13.	14	455.0	4455.0	10.	15	455.0	4460.0	9.
16	460.0	4390.0	19.	17	460.0	4395.0	29.	18	460.0	4400.0	40.
19	460.0	4405.0	37.	20	460.0	4410.0	29.	21	460.0	4415.0	22.
22	460.0	4420.0	20.	23	460.0	4425.0	18.	24	460.0	4430.0	17.
25	460.0	4435.0	17.	26	460.0	4440.0	18.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	16.	32	465.0	4395.0	22.	33	465.0	4400.0	30.
34	465.0	4405.0	45.	35	465.0	4410.0	54.	36	465.0	4415.0	30.
37	465.0	4420.0	25.	38	465.0	4425.0	22.	39	465.0	4430.0	20.
40	465.0	4435.0	22.	41	465.0	4440.0	22.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	14.	47	470.0	4395.0	18.	48	470.0	4400.0	20.
49	470.0	4405.0	34.	50	470.0	4410.0	45.	51	470.0	4415.0	42.
52	470.0	4420.0	33.	53	470.0	4425.0	29.	54	470.0	4430.0	27.
55	470.0	4435.0	28.	56	470.0	4440.0	34.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	14.	62	475.0	4395.0	17.	63	475.0	4400.0	21.
64	475.0	4405.0	30.	65	475.0	4410.0	40.	66	475.0	4415.0	50.
67	475.0	4420.0	48.	68	475.0	4425.0	40.	69	475.0	4430.0	33.
70	475.0	4435.0	41.	71	475.0	4440.0	36.	72	475.0	4445.0	23.
73	475.0	4450.0	25.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	13.	77	480.0	4395.0	16.	78	480.0	4400.0	21.
79	480.0	4405.0	29.	80	480.0	4410.0	48.	81	480.0	4415.0	47.
82	480.0	4420.0	56.	83	480.0	4425.0	45.	84	480.0	4430.0	39.
85	480.0	4435.0	33.	86	480.0	4440.0	29.	87	480.0	4445.0	24.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	12.	92	485.0	4395.0	15.	93	485.0	4400.0	20.
94	485.0	4405.0	27.	95	485.0	4410.0	38.	96	485.0	4415.0	54.
97	485.0	4420.0	66.	98	485.0	4425.0	56.	99	485.0	4430.0	46.
100	485.0	4435.0	38.	101	485.0	4440.0	34.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	11.
106	490.0	4390.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	18.
109	490.0	4405.0	24.	110	490.0	4410.0	33.	111	490.0	4415.0	50.
112	490.0	4420.0	51.	113	490.0	4425.0	60.	114	490.0	4430.0	49.
115	490.0	4435.0	39.	116	490.0	4440.0	35.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	10.	122	495.0	4395.0	13.	123	495.0	4400.0	16.
124	495.0	4405.0	20.	125	495.0	4410.0	27.	126	495.0	4415.0	34.
127	495.0	4420.0	37.	128	495.0	4425.0	44.	129	495.0	4430.0	49.
130	495.0	4435.0	38.	131	495.0	4440.0	31.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	10.
136	500.0	4390.0	10.	137	500.0	4395.0	11.	138	500.0	4400.0	14.
139	500.0	4405.0	18.	140	500.0	4410.0	21.	141	500.0	4415.0	25.
142	500.0	4420.0	27.	143	500.0	4425.0	31.	144	500.0	4430.0	35.
145	500.0	4435.0	37.	146	500.0	4440.0	30.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 10 (continued).

NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S
151	505.0	4390.0	8.	152	505.0	4395.0	10.	153	505.0	4400.0	12.
154	505.0	4405.0	14.	155	505.0	4410.0	17.	156	505.0	4415.0	19.
157	505.0	4420.0	21.	158	505.0	4425.0	24.	159	505.0	4430.0	29.
160	505.0	4435.0	50.	161	505.0	4440.0	32.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	14.	165	505.0	4460.0	11.
166	510.0	4390.0	8.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	12.	170	510.0	4410.0	14.	171	510.0	4415.0	16.
172	510.0	4420.0	17.	173	510.0	4425.0	19.	174	510.0	4430.0	25.
175	510.0	4435.0	32.	176	510.0	4440.0	35.	177	510.0	4445.0	30.
178	510.0	4450.0	20.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	9.
184	515.0	4405.0	11.	185	515.0	4410.0	12.	186	515.0	4415.0	13.
187	515.0	4420.0	15.	188	515.0	4425.0	17.	189	515.0	4430.0	19.
190	515.0	4435.0	28.	191	515.0	4440.0	32.	192	515.0	4445.0	32.
193	515.0	4450.0	24.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	9.	200	520.0	4410.0	10.	201	520.0	4415.0	12.
202	520.0	4420.0	13.	203	520.0	4425.0	15.	204	520.0	4430.0	17.
205	520.0	4435.0	21.	206	520.0	4440.0	23.	207	520.0	4445.0	36.
208	520.0	4450.0	32.	209	520.0	4455.0	21.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	9.	216	525.0	4415.0	10.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	15.
220	525.0	4435.0	17.	221	525.0	4440.0	22.	222	525.0	4445.0	36.
223	525.0	4450.0	26.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	529.0	4421.0	51.								

TABLE 11. 1978 SO₂ CONCENTRATIONS FOR STRATEGY 6

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	17.	2	455.0	4395.0	23.	3	455.0	4400.0	31.
4	455.0	4405.0	23.	5	455.0	4410.0	19.	6	455.0	4415.0	17.
7	455.0	4420.0	17.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	18.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	19.	17	460.0	4395.0	29.	18	460.0	4400.0	34.
19	460.0	4405.0	31.	20	460.0	4410.0	25.	21	460.0	4415.0	20.
22	460.0	4420.0	19.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	15.	32	465.0	4395.0	20.	33	465.0	4400.0	28.
34	465.0	4405.0	39.	35	465.0	4410.0	46.	36	465.0	4415.0	27.
37	465.0	4420.0	23.	38	465.0	4425.0	21.	39	465.0	4430.0	19.
40	465.0	4435.0	20.	41	465.0	4440.0	20.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	14.	47	470.0	4395.0	17.	48	470.0	4400.0	22.
49	470.0	4405.0	31.	50	470.0	4410.0	39.	51	470.0	4415.0	36.
52	470.0	4420.0	30.	53	470.0	4425.0	26.	54	470.0	4430.0	24.
55	470.0	4435.0	25.	56	470.0	4440.0	29.	57	470.0	4445.0	19.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	15.	62	475.0	4395.0	16.	63	475.0	4400.0	20.
66	475.0	4405.0	28.	65	475.0	4410.0	37.	66	475.0	4415.0	45.
67	475.0	4420.0	42.	68	475.0	4425.0	36.	69	475.0	4430.0	30.
70	475.0	4435.0	33.	71	475.0	4440.0	31.	72	475.0	4445.0	21.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	12.	77	480.0	4395.0	15.	78	480.0	4400.0	20.
79	480.0	4405.0	28.	80	480.0	4410.0	47.	81	480.0	4415.0	47.
82	480.0	4420.0	55.	83	480.0	4425.0	44.	84	480.0	4430.0	37.
85	480.0	4435.0	30.	86	480.0	4440.0	26.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	12.	92	485.0	4395.0	16.	93	485.0	4400.0	20.
94	485.0	4405.0	28.	95	485.0	4410.0	38.	96	485.0	4415.0	57.
97	485.0	4420.0	68.	98	485.0	4425.0	58.	99	485.0	4430.0	47.
100	485.0	4435.0	36.	101	485.0	4440.0	32.	102	485.0	4445.0	24.
103	485.0	4450.0	19.	104	485.0	4455.0	14.	105	485.0	4460.0	11.
106	490.0	4390.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	19.
109	490.0	4405.0	25.	110	490.0	4410.0	35.	111	490.0	4415.0	63.
112	490.0	4420.0	56.	113	490.0	4425.0	66.	114	490.0	4430.0	52.
115	490.0	4435.0	38.	116	490.0	4440.0	32.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	11.	122	495.0	4395.0	13.	123	495.0	4400.0	17.
124	495.0	4405.0	22.	125	495.0	4410.0	30.	126	495.0	4415.0	38.
127	495.0	4420.0	42.	128	495.0	4425.0	49.	129	495.0	4430.0	53.
130	495.0	4435.0	39.	131	495.0	4440.0	30.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	11.
136	500.0	4390.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	15.
139	500.0	4405.0	20.	140	500.0	4410.0	24.	141	500.0	4415.0	29.
142	500.0	4420.0	31.	143	500.0	4425.0	35.	144	500.0	4430.0	39.
145	500.0	4435.0	34.	146	500.0	4440.0	30.	147	500.0	4445.0	25.
148	500.0	4450.0	19.	149	500.0	4455.0	14.	150	500.0	4460.0	11.

TABLE 11 (continued).

NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	13.
154	505.0	4405.0	16.	155	505.0	4410.0	19.	156	505.0	4415.0	22.
157	505.0	4420.0	24.	158	505.0	4425.0	27.	159	505.0	4430.0	33.
160	505.0	4435.0	53.	161	505.0	4440.0	32.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	14.	165	505.0	4460.0	11.
166	510.0	4390.0	8.	167	510.0	4395.0	10.	168	510.0	4400.0	32.
169	510.0	4405.0	13.	170	510.0	4410.0	16.	171	510.0	4415.0	18.
172	510.0	4420.0	20.	173	510.0	4425.0	23.	174	510.0	4430.0	29.
175	510.0	4435.0	34.	176	510.0	4440.0	35.	177	510.0	4445.0	30.
178	510.0	4450.0	21.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	15.
187	515.0	4420.0	17.	188	515.0	4425.0	20.	189	515.0	4430.0	23.
190	515.0	4435.0	31.	191	515.0	4440.0	33.	192	515.0	4445.0	31.
193	515.0	4450.0	25.	194	515.0	4455.0	21.	195	515.0	4460.0	13.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	9.
199	520.0	4405.0	19.	200	520.0	4410.0	11.	201	520.0	4415.0	13.
202	520.0	4420.0	15.	203	520.0	4425.0	18.	204	520.0	4430.0	21.
205	520.0	4435.0	24.	206	520.0	4440.0	24.	207	520.0	4445.0	37.
208	520.0	4450.0	40.	209	520.0	4455.0	26.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	7.
216	525.0	4405.0	9.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	13.	218	525.0	4425.0	15.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	24.	222	525.0	4445.0	38.
223	525.0	4450.0	30.	224	525.0	4455.0	23.	225	525.0	4460.0	15.
226	489.0	4421.0	55.								

TABLE 12. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 1

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	19.	2	455.0	4395.0	27.	3	455.0	4400.0	43.
4	455.0	4405.0	27.	5	455.0	4410.0	20.	6	455.0	4415.0	18.
7	455.0	4420.0	18.	8	455.0	4425.0	16.	9	455.0	4430.0	16.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	19.	17	460.0	4395.0	29.	18	460.0	4400.0	81.
19	460.0	4405.0	36.	20	460.0	4410.0	27.	21	460.0	4415.0	21.
22	460.0	4420.0	19.	23	460.0	4425.0	18.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	15.	32	465.0	4395.0	22.	33	465.0	4400.0	30.
34	465.0	4405.0	43.	35	465.0	4410.0	50.	36	465.0	4415.0	29.
37	465.0	4420.0	24.	38	465.0	4425.0	22.	39	465.0	4430.0	19.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	13.	47	470.0	4395.0	17.	48	470.0	4400.0	22.
49	470.0	4405.0	32.	50	470.0	4410.0	43.	51	470.0	4415.0	39.
52	470.0	4420.0	31.	53	470.0	4425.0	27.	54	470.0	4430.0	25.
55	470.0	4435.0	25.	56	470.0	4440.0	31.	57	470.0	4445.0	19.
58	470.0	4450.0	14.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	12.	62	475.0	4395.0	15.	63	475.0	4400.0	20.
64	475.0	4405.0	27.	65	475.0	4410.0	36.	66	475.0	4415.0	45.
67	475.0	4420.0	45.	68	475.0	4425.0	37.	69	475.0	4430.0	30.
70	475.0	4435.0	34.	71	475.0	4440.0	42.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	12.	77	480.0	4395.0	15.	78	480.0	4400.0	19.
79	480.0	4405.0	27.	80	480.0	4410.0	35.	81	480.0	4415.0	45.
82	480.0	4420.0	53.	83	480.0	4425.0	43.	84	480.0	4430.0	37.
85	480.0	4435.0	51.	86	480.0	4440.0	27.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	11.	92	485.0	4395.0	14.	93	485.0	4400.0	18.
94	485.0	4405.0	25.	95	485.0	4410.0	36.	96	485.0	4415.0	55.
97	485.0	4420.0	64.	98	485.0	4425.0	55.	99	485.0	4430.0	45.
100	485.0	4435.0	36.	101	485.0	4440.0	32.	102	485.0	4445.0	24.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	11.
106	490.0	4390.0	11.	107	490.0	4395.0	15.	108	490.0	4400.0	17.
109	490.0	4405.0	22.	110	490.0	4410.0	32.	111	490.0	4415.0	56.
112	490.0	4420.0	52.	113	490.0	4425.0	61.	114	490.0	4430.0	49.
115	490.0	4435.0	37.	116	490.0	4440.0	32.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	10.	122	495.0	4395.0	12.	123	495.0	4400.0	15.
124	495.0	4405.0	19.	125	495.0	4410.0	26.	126	495.0	4415.0	33.
127	495.0	4420.0	34.	128	495.0	4425.0	44.	129	495.0	4430.0	50.
130	495.0	4435.0	37.	131	495.0	4440.0	30.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	10.
136	500.0	4390.0	9.	137	500.0	4395.0	10.	138	500.0	4400.0	13.
139	500.0	4405.0	17.	140	500.0	4410.0	20.	141	500.0	4415.0	24.
142	500.0	4420.0	27.	143	500.0	4425.0	31.	144	500.0	4430.0	35.
145	500.0	4435.0	36.	146	500.0	4440.0	29.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 12 (continued).

NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S
151	505.0	4390.0	8.	152	505.0	4395.0	9.	153	505.0	4400.0	11.
154	505.0	4405.0	14.	155	505.0	4410.0	16.	156	505.0	4415.0	19.
157	505.0	4420.0	21.	158	505.0	4425.0	24.	159	505.0	4430.0	29.
160	505.0	4435.0	40.	161	505.0	4440.0	31.	162	505.0	4445.0	28.
163	505.0	4450.0	19.	164	505.0	4455.0	13.	165	505.0	4460.0	10.
166	510.0	4390.0	7.	167	510.0	4395.0	8.	168	510.0	4400.0	10.
169	510.0	4405.0	12.	170	510.0	4410.0	15.	171	510.0	4415.0	15.
172	510.0	4420.0	17.	173	510.0	4425.0	19.	174	510.0	4430.0	28.
175	510.0	4435.0	32.	176	510.0	4440.0	34.	177	510.0	4445.0	30.
178	510.0	4450.0	20.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4390.0	6.	182	515.0	4395.0	7.	183	515.0	4400.0	9.
184	515.0	4405.0	10.	185	515.0	4410.0	11.	186	515.0	4415.0	13.
187	515.0	4420.0	14.	188	515.0	4425.0	17.	189	515.0	4430.0	19.
190	515.0	4435.0	27.	191	515.0	4440.0	30.	192	515.0	4445.0	30.
193	515.0	4450.0	23.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	6.	197	520.0	4395.0	6.	198	520.0	4400.0	7.
199	520.0	4405.0	9.	200	520.0	4410.0	10.	201	520.0	4415.0	11.
202	520.0	4420.0	15.	203	520.0	4425.0	15.	204	520.0	4430.0	17.
205	520.0	4435.0	20.	206	520.0	4440.0	22.	207	520.0	4445.0	35.
208	520.0	4450.0	31.	209	520.0	4455.0	20.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	7.	215	525.0	4410.0	8.	216	525.0	4415.0	10.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	14.
220	525.0	4435.0	16.	221	525.0	4440.0	22.	222	525.0	4445.0	36.
223	525.0	4450.0	25.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	489.0	4421.0	51.								

TABLE 13. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 2

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	15.	2	455.0	4395.0	21.	3	455.0	4400.0	32.
4	455.0	4405.0	22.	5	455.0	4410.0	18.	6	455.0	4415.0	16.
7	455.0	4420.0	17.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	14.	11	455.0	4440.0	14.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	16.	17	460.0	4395.0	20.	18	460.0	4400.0	29.
19	460.0	4405.0	29.	20	460.0	4410.0	28.	21	460.0	4415.0	20.
22	460.0	4420.0	18.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	13.	32	465.0	4395.0	18.	33	465.0	4400.0	25.
34	465.0	4405.0	37.	35	465.0	4410.0	46.	36	465.0	4415.0	27.
37	465.0	4420.0	23.	38	465.0	4425.0	21.	39	465.0	4430.0	19.
40	465.0	4435.0	20.	41	465.0	4440.0	20.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	11.	47	470.0	4395.0	14.	48	470.0	4400.0	19.
49	470.0	4405.0	29.	50	470.0	4410.0	40.	51	470.0	4415.0	36.
52	470.0	4420.0	30.	53	470.0	4425.0	26.	54	470.0	4430.0	24.
55	470.0	4435.0	25.	56	470.0	4440.0	31.	57	470.0	4445.0	19.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	11.	62	475.0	4395.0	14.	63	475.0	4400.0	18.
64	475.0	4405.0	25.	65	475.0	4410.0	34.	66	475.0	4415.0	63.
67	475.0	4420.0	44.	68	475.0	4425.0	36.	69	475.0	4430.0	30.
70	475.0	4435.0	30.	71	475.0	4440.0	31.	72	475.0	4445.0	21.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	11.	77	480.0	4395.0	13.	78	480.0	4400.0	17.
79	480.0	4405.0	25.	80	480.0	4410.0	84.	81	480.0	4415.0	44.
82	480.0	4420.0	52.	83	480.0	4425.0	42.	84	480.0	4430.0	37.
85	480.0	4435.0	30.	86	480.0	4440.0	27.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	10.	92	485.0	4395.0	13.	93	485.0	4400.0	17.
94	485.0	4405.0	24.	95	485.0	4410.0	35.	96	485.0	4415.0	54.
97	485.0	4420.0	63.	98	485.0	4425.0	58.	99	485.0	4430.0	84.
100	485.0	4435.0	35.	101	485.0	4440.0	32.	102	485.0	4445.0	24.
103	485.0	4450.0	19.	104	485.0	4455.0	14.	105	485.0	4460.0	11.
106	490.0	4390.0	10.	107	490.0	4395.0	13.	108	490.0	4400.0	16.
109	490.0	4405.0	21.	110	490.0	4410.0	31.	111	490.0	4415.0	56.
112	490.0	4420.0	51.	113	490.0	4425.0	60.	114	490.0	4430.0	88.
115	490.0	4435.0	37.	116	490.0	4440.0	32.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	9.	122	495.0	4395.0	11.	123	495.0	4400.0	18.
124	495.0	4405.0	18.	125	495.0	4410.0	25.	126	495.0	4415.0	33.
127	495.0	4420.0	37.	128	495.0	4425.0	44.	129	495.0	4430.0	49.
130	495.0	4435.0	36.	131	495.0	4440.0	29.	132	495.0	4445.0	25.
133	495.0	4450.0	19.	134	495.0	4455.0	13.	135	495.0	4460.0	10.
136	500.0	4390.0	8.	137	500.0	4395.0	10.	138	500.0	4400.0	12.
139	500.0	4405.0	17.	140	500.0	4410.0	20.	141	500.0	4415.0	24.
142	500.0	4420.0	27.	143	500.0	4425.0	31.	144	500.0	4430.0	34.
145	500.0	4435.0	36.	146	500.0	4440.0	29.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 13 (continued).

NO.	FAST	NORTH	UG/M _{0.3}	NO.	FAST	NORTH	UG/M _{0.3}	NO.	FAST	NORTH	UG/M _{0.3}
151	505.0	4390.0	7.	152	505.0	4395.0	9.	153	505.0	4400.0	11.
154	505.0	4405.0	13.	155	505.0	4410.0	16.	156	505.0	4415.0	19.
157	505.0	4420.0	21.	158	505.0	4425.0	24.	159	505.0	4430.0	29.
160	505.0	4435.0	50.	161	505.0	4440.0	31.	162	505.0	4445.0	28.
163	505.0	4450.0	18.	164	505.0	4455.0	13.	165	505.0	4460.0	10.
166	510.0	4390.0	7.	167	510.0	4395.0	8.	168	510.0	4400.0	10.
169	510.0	4405.0	11.	170	510.0	4410.0	13.	171	510.0	4415.0	15.
172	510.0	4420.0	17.	173	510.0	4425.0	19.	174	510.0	4430.0	24.
175	510.0	4435.0	31.	176	510.0	4440.0	33.	177	510.0	4445.0	29.
174	510.0	4450.0	21.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4390.0	6.	182	515.0	4395.0	7.	183	515.0	4400.0	8.
184	515.0	4405.0	10.	185	515.0	4410.0	11.	186	515.0	4415.0	13.
187	515.0	4420.0	14.	188	515.0	4425.0	17.	189	515.0	4430.0	19.
190	515.0	4435.0	27.	191	515.0	4440.0	30.	192	515.0	4445.0	30.
193	515.0	4450.0	23.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	5.	197	520.0	4395.0	6.	198	520.0	4400.0	7.
199	520.0	4405.0	9.	200	520.0	4410.0	10.	201	520.0	4415.0	11.
202	520.0	4420.0	12.	203	520.0	4425.0	15.	204	520.0	4430.0	17.
205	520.0	4435.0	20.	206	520.0	4440.0	22.	207	520.0	4445.0	30.
208	520.0	4450.0	31.	209	520.0	4455.0	20.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	5.	213	525.0	4400.0	6.
214	525.0	4405.0	7.	215	525.0	4410.0	8.	216	525.0	4415.0	9.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	14.
220	525.0	4435.0	16.	221	525.0	4440.0	22.	222	525.0	4445.0	36.
223	525.0	4450.0	25.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	480.0	4421.0	51.								

TABLE 14. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 3

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4300.0	20.	2	455.0	4395.0	29.	3	455.0	4400.0	45.
4	455.0	4415.0	25.	5	455.0	4410.0	21.	6	455.0	4415.0	19.
7	455.0	4420.0	19.	8	455.0	4425.0	17.	9	455.0	4430.0	16.
10	455.0	4435.0	15.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4300.0	22.	17	460.0	4395.0	35.	18	460.0	4400.0	46.
19	460.0	4405.0	38.	20	460.0	4410.0	28.	21	460.0	4415.0	22.
22	460.0	4420.0	20.	23	460.0	4425.0	18.	24	460.0	4430.0	18.
25	460.0	4435.0	17.	26	460.0	4440.0	18.	27	460.0	4445.0	16.
28	460.0	4450.0	14.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4300.0	17.	32	465.0	4395.0	24.	33	465.0	4400.0	34.
34	465.0	4405.0	45.	35	465.0	4410.0	51.	36	465.0	4415.0	30.
37	465.0	4420.0	24.	38	465.0	4425.0	22.	39	465.0	4430.0	20.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
41	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
44	470.0	4300.0	15.	47	470.0	4395.0	19.	48	470.0	4400.0	25.
49	470.0	4405.0	14.	50	470.0	4410.0	45.	51	470.0	4415.0	40.
52	470.0	4420.0	32.	53	470.0	4425.0	28.	54	470.0	4430.0	25.
55	470.0	4435.0	26.	56	470.0	4440.0	31.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	12.
61	475.0	4300.0	14.	62	475.0	4395.0	17.	63	475.0	4400.0	21.
64	475.0	4405.0	29.	65	475.0	4410.0	38.	66	475.0	4415.0	46.
67	475.0	4420.0	46.	68	475.0	4425.0	38.	69	475.0	4430.0	31.
70	475.0	4435.0	35.	71	475.0	4440.0	32.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4300.0	13.	77	480.0	4395.0	16.	78	480.0	4400.0	20.
79	480.0	4405.0	28.	80	480.0	4410.0	48.	81	480.0	4415.0	47.
82	480.0	4420.0	55.	83	480.0	4425.0	44.	84	480.0	4430.0	38.
85	480.0	4435.0	31.	86	480.0	4440.0	28.	87	480.0	4445.0	24.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4300.0	12.	92	485.0	4395.0	16.	93	485.0	4400.0	20.
94	485.0	4405.0	27.	95	485.0	4410.0	38.	96	485.0	4415.0	58.
97	485.0	4420.0	66.	98	485.0	4425.0	57.	99	485.0	4430.0	46.
100	485.0	4435.0	37.	101	485.0	4440.0	33.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	12.
106	490.0	4300.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	19.
109	490.0	4405.0	25.	110	490.0	4410.0	35.	111	490.0	4415.0	64.
112	490.0	4420.0	57.	113	490.0	4425.0	64.	114	490.0	4430.0	51.
115	490.0	4435.0	39.	116	490.0	4440.0	33.	117	490.0	4445.0	29.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4300.0	11.	122	495.0	4395.0	13.	123	495.0	4400.0	17.
124	495.0	4405.0	22.	125	495.0	4410.0	30.	126	495.0	4415.0	39.
127	495.0	4420.0	43.	128	495.0	4425.0	49.	129	495.0	4430.0	52.
130	495.0	4435.0	34.	131	495.0	4440.0	31.	132	495.0	4445.0	26.
133	495.0	4450.0	29.	134	495.0	4455.0	14.	135	495.0	4460.0	11.
136	500.0	4300.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	15.
139	500.0	4405.0	24.	140	500.0	4410.0	24.	141	500.0	4415.0	29.
142	500.0	4420.0	32.	143	500.0	4425.0	35.	144	500.0	4430.0	38.
145	500.0	4435.0	39.	146	500.0	4440.0	31.	147	500.0	4445.0	26.
148	500.0	4450.0	19.	149	500.0	4455.0	14.	150	500.0	4460.0	11.

TABLE 14 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	13.
154	505.0	4405.0	16.	155	505.0	4410.0	19.	156	505.0	4415.0	22.
157	505.0	4420.0	24.	158	505.0	4425.0	28.	159	505.0	4430.0	33.
160	505.0	4435.0	54.	161	505.0	4440.0	33.	162	505.0	4445.0	29.
163	505.0	4450.0	20.	164	505.0	4455.0	15.	165	505.0	4460.0	11.
166	510.0	4390.0	8.	167	510.0	4395.0	10.	168	510.0	4400.0	12.
169	510.0	4405.0	13.	170	510.0	4410.0	16.	171	510.0	4415.0	18.
172	510.0	4420.0	20.	173	510.0	4425.0	23.	174	510.0	4430.0	30.
175	510.0	4435.0	36.	176	510.0	4440.0	36.	177	510.0	4445.0	31.
178	510.0	4450.0	22.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	15.
187	515.0	4420.0	17.	188	515.0	4425.0	20.	189	515.0	4430.0	23.
190	515.0	4435.0	31.	191	515.0	4440.0	34.	192	515.0	4445.0	32.
193	515.0	4450.0	26.	194	515.0	4455.0	21.	195	515.0	4460.0	14.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	9.
199	520.0	4405.0	10.	200	520.0	4410.0	11.	201	520.0	4415.0	13.
202	520.0	4420.0	15.	203	520.0	4425.0	18.	204	520.0	4430.0	21.
205	520.0	4435.0	28.	206	520.0	4440.0	25.	207	520.0	4445.0	38.
208	520.0	4450.0	42.	209	520.0	4455.0	27.	210	520.0	4460.0	16.
211	525.0	4390.0	6.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	13.	218	525.0	4425.0	16.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	25.	222	525.0	4445.0	40.
223	525.0	4450.0	30.	224	525.0	4455.0	23.	225	525.0	4460.0	15.
226	489.4	4421.4	55.								

TABLE 15. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 4

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	16.	2	455.0	4395.0	26.	3	455.0	4400.0	34.
4	455.0	4405.0	23.	5	455.0	4410.0	19.	6	455.0	4415.0	17.
7	455.0	4420.0	18.	8	455.0	4425.0	16.	9	455.0	4430.0	16.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	16.	15	455.0	4460.0	8.
16	460.0	4390.0	19.	17	460.0	4395.0	30.	18	460.0	4400.0	35.
19	460.0	4405.0	31.	20	460.0	4410.0	25.	21	460.0	4415.0	21.
22	460.0	4420.0	19.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	16.	30	460.0	4460.0	8.
31	465.0	4390.0	15.	32	465.0	4395.0	21.	33	465.0	4400.0	29.
34	465.0	4405.0	39.	35	465.0	4410.0	47.	36	465.0	4415.0	28.
37	465.0	4420.0	23.	38	465.0	4425.0	22.	39	465.0	4430.0	19.
40	465.0	4435.0	21.	41	465.0	4440.0	21.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	13.	47	470.0	4395.0	16.	48	470.0	4400.0	22.
49	470.0	4405.0	31.	50	470.0	4410.0	42.	51	470.0	4415.0	38.
52	470.0	4420.0	31.	53	470.0	4425.0	27.	54	470.0	4430.0	25.
55	470.0	4435.0	25.	56	470.0	4440.0	31.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	12.	62	475.0	4395.0	15.	63	475.0	4400.0	19.
64	475.0	4405.0	27.	65	475.0	4410.0	38.	66	475.0	4415.0	45.
67	475.0	4420.0	45.	68	475.0	4425.0	37.	69	475.0	4430.0	30.
70	475.0	4435.0	34.	71	475.0	4440.0	32.	72	475.0	4445.0	22.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	12.	77	480.0	4395.0	15.	78	480.0	4400.0	19.
79	480.0	4405.0	27.	80	480.0	4410.0	46.	81	480.0	4415.0	46.
82	480.0	4420.0	54.	83	480.0	4425.0	43.	84	480.0	4430.0	38.
85	480.0	4435.0	31.	86	480.0	4440.0	27.	87	480.0	4445.0	23.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	11.	92	485.0	4395.0	15.	93	485.0	4400.0	19.
94	485.0	4405.0	26.	95	485.0	4410.0	37.	96	485.0	4415.0	57.
97	485.0	4420.0	66.	98	485.0	4425.0	56.	99	485.0	4430.0	45.
100	485.0	4435.0	36.	101	485.0	4440.0	33.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	15.	105	485.0	4460.0	12.
106	490.0	4390.0	11.	107	490.0	4395.0	14.	108	490.0	4400.0	18.
109	490.0	4405.0	24.	110	490.0	4410.0	34.	111	490.0	4415.0	64.
112	490.0	4420.0	56.	113	490.0	4425.0	64.	114	490.0	4430.0	50.
115	490.0	4435.0	38.	116	490.0	4440.0	33.	117	490.0	4445.0	29.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	10.	122	495.0	4395.0	13.	123	495.0	4400.0	16.
124	495.0	4405.0	21.	125	495.0	4410.0	30.	126	495.0	4415.0	39.
127	495.0	4420.0	42.	128	495.0	4425.0	48.	129	495.0	4430.0	52.
130	495.0	4435.0	38.	131	495.0	4440.0	30.	132	495.0	4445.0	26.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	11.
136	500.0	4390.0	9.	137	500.0	4395.0	11.	138	500.0	4400.0	14.
139	500.0	4405.0	20.	140	500.0	4410.0	24.	141	500.0	4415.0	29.
142	500.0	4420.0	31.	143	500.0	4425.0	35.	144	500.0	4430.0	38.
145	500.0	4435.0	34.	146	500.0	4440.0	30.	147	500.0	4445.0	26.
148	500.0	4450.0	19.	149	500.0	4455.0	14.	150	500.0	4460.0	11.

TABLE 15 (continued).

NO.	EAST	NORTH	UG/M _{n+3}	NO.	EAST	NORTH	UG/M _{n+3}	NO.	EAST	NORTH	UG/M _{n+3}
151	505.0	4390.0	8.	152	505.0	4395.0	10.	153	505.0	4400.0	13.
154	505.0	4405.0	16.	155	505.0	4410.0	19.	156	505.0	4415.0	22.
157	505.0	4420.0	24.	158	505.0	4425.0	27.	159	505.0	4430.0	33.
160	505.0	4435.0	50.	161	505.0	4440.0	32.	162	505.0	4445.0	29.
163	505.0	4450.0	20.	164	505.0	4455.0	16.	165	505.0	4460.0	11.
166	510.0	4390.0	8.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	13.	170	510.0	4410.0	15.	171	510.0	4415.0	18.
172	510.0	4420.0	20.	173	510.0	4425.0	23.	174	510.0	4430.0	29.
175	510.0	4435.0	35.	176	510.0	4440.0	36.	177	510.0	4445.0	31.
178	510.0	4450.0	22.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	15.
187	515.0	4420.0	17.	188	515.0	4425.0	20.	189	515.0	4430.0	23.
190	515.0	4435.0	31.	191	515.0	4440.0	34.	192	515.0	4445.0	32.
193	515.0	4450.0	26.	194	515.0	4455.0	21.	195	515.0	4460.0	18.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	10.	200	520.0	4410.0	11.	201	520.0	4415.0	13.
202	520.0	4420.0	15.	203	520.0	4425.0	18.	204	520.0	4430.0	21.
205	520.0	4435.0	24.	206	520.0	4440.0	25.	207	520.0	4445.0	30.
208	520.0	4450.0	42.	209	520.0	4455.0	27.	210	520.0	4460.0	16.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	10.	216	525.0	4415.0	11.
217	525.0	4420.0	13.	218	525.0	4425.0	16.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	24.	222	525.0	4445.0	40.
223	525.0	4450.0	30.	224	525.0	4455.0	23.	225	525.0	4460.0	15.
226	489.4	4421.4	50.								

TABLE 16. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 5

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4340.0	19.	2	455.0	4395.0	27.	3	455.0	4400.0	43.
4	455.0	4425.0	27.	5	455.0	4410.0	20.	6	455.0	4415.0	18.
7	455.0	4420.0	18.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	14.	11	455.0	4440.0	15.	12	455.0	4445.0	12.
13	455.0	4450.0	13.	14	455.0	4455.0	10.	15	455.0	4460.0	9.
16	460.0	4500.0	19.	17	460.0	4395.0	29.	18	460.0	4400.0	41.
19	460.0	4405.0	37.	20	460.0	4410.0	27.	21	460.0	4415.0	21.
22	460.0	4420.0	19.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	15.	26	460.0	4440.0	18.	27	460.0	4445.0	16.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4500.0	15.	32	465.0	4395.0	22.	33	465.0	4400.0	30.
34	465.0	4405.0	45.	35	465.0	4410.0	54.	36	465.0	4415.0	30.
37	465.0	4420.0	24.	38	465.0	4425.0	22.	39	465.0	4430.0	20.
40	465.0	4435.0	22.	41	465.0	4440.0	27.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	13.	47	470.0	4395.0	17.	48	470.0	4400.0	23.
49	470.0	4405.0	33.	50	470.0	4410.0	46.	51	470.0	4415.0	41.
52	470.0	4420.0	32.	53	470.0	4425.0	28.	54	470.0	4430.0	26.
55	470.0	4435.0	28.	56	470.0	4440.0	34.	57	470.0	4445.0	20.
58	470.0	4450.0	16.	59	470.0	4455.0	15.	60	470.0	4460.0	11.
61	475.0	4390.0	12.	62	475.0	4395.0	16.	63	475.0	4400.0	20.
64	475.0	4405.0	28.	65	475.0	4410.0	38.	66	475.0	4415.0	47.
67	475.0	4420.0	46.	68	475.0	4425.0	38.	69	475.0	4430.0	31.
70	475.0	4435.0	40.	71	475.0	4440.0	36.	72	475.0	4445.0	22.
73	475.0	4450.0	25.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	475.0	4390.0	12.	77	480.0	4395.0	15.	78	480.0	4400.0	19.
79	480.0	4405.0	27.	80	480.0	4410.0	46.	81	480.0	4415.0	44.
82	480.0	4420.0	44.	83	480.0	4425.0	40.	84	480.0	4430.0	36.
85	480.0	4435.0	32.	86	480.0	4440.0	29.	87	480.0	4445.0	24.
88	480.0	4450.0	19.	89	480.0	4455.0	15.	90	480.0	4460.0	11.
91	485.0	4590.0	11.	92	485.0	4395.0	14.	93	485.0	4400.0	18.
94	485.0	4405.0	25.	95	485.0	4410.0	35.	96	485.0	4415.0	51.
97	485.0	4420.0	58.	98	485.0	4425.0	48.	99	485.0	4430.0	40.
100	485.0	4435.0	35.	101	485.0	4440.0	33.	102	485.0	4445.0	25.
103	485.0	4450.0	19.	104	485.0	4455.0	14.	105	485.0	4460.0	11.
106	490.0	4390.0	10.	107	490.0	4395.0	13.	108	490.0	4400.0	16.
109	490.0	4405.0	21.	110	490.0	4410.0	30.	111	490.0	4415.0	53.
112	490.0	4420.0	46.	113	490.0	4425.0	52.	114	490.0	4430.0	43.
115	490.0	4435.0	36.	116	490.0	4440.0	33.	117	490.0	4445.0	28.
118	490.0	4450.0	10.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	9.	122	495.0	4395.0	11.	123	495.0	4400.0	15.
124	495.0	4405.0	18.	125	495.0	4410.0	25.	126	495.0	4415.0	31.
127	495.0	4420.0	35.	128	495.0	4425.0	40.	129	495.0	4430.0	43.
130	495.0	4435.0	30.	131	495.0	4440.0	29.	132	495.0	4445.0	25.
133	495.0	4450.0	18.	134	495.0	4455.0	13.	135	495.0	4460.0	10.
136	500.0	4390.0	9.	137	500.0	4395.0	10.	138	500.0	4400.0	13.
139	500.0	4405.0	17.	140	500.0	4410.0	20.	141	500.0	4415.0	23.
142	500.0	4420.0	25.	143	500.0	4425.0	28.	144	500.0	4430.0	31.
145	500.0	4435.0	33.	146	500.0	4440.0	28.	147	500.0	4445.0	28.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 16 (continued).

NO.	EAST	NORTH	UG/M _o +3	NO.	EAST	NORTH	UG/M _o +3	NO.	EAST	NORTH	UG/M _o +3
151	505.0	4390.0	8.	152	505.0	4395.0	9.	153	505.0	4400.0	11.
154	505.0	4405.0	13.	155	505.0	4410.0	16.	156	505.0	4415.0	18.
157	505.0	4420.0	20.	158	505.0	4425.0	22.	159	505.0	4430.0	27.
160	505.0	4435.0	49.	161	505.0	4440.0	30.	162	505.0	4445.0	27.
163	505.0	4450.0	19.	164	505.0	4455.0	13.	165	505.0	4460.0	10.
166	510.0	4390.0	7.	167	510.0	4395.0	8.	168	510.0	4400.0	10.
169	510.0	4405.0	11.	170	510.0	4410.0	13.	171	510.0	4415.0	15.
172	510.0	4420.0	16.	173	510.0	4425.0	18.	174	510.0	4430.0	24.
175	510.0	4435.0	31.	176	510.0	4440.0	35.	177	510.0	4445.0	29.
178	510.0	4450.0	20.	179	510.0	4455.0	15.	180	510.0	4460.0	11.
181	515.0	4390.0	6.	182	515.0	4395.0	7.	183	515.0	4400.0	8.
184	515.0	4405.0	10.	185	515.0	4410.0	11.	186	515.0	4415.0	12.
187	515.0	4420.0	14.	188	515.0	4425.0	16.	189	515.0	4430.0	19.
190	515.0	4435.0	27.	191	515.0	4440.0	32.	192	515.0	4445.0	32.
193	515.0	4450.0	24.	194	515.0	4455.0	18.	195	515.0	4460.0	12.
196	520.0	4390.0	5.	197	520.0	4395.0	6.	198	520.0	4400.0	7.
199	520.0	4405.0	8.	200	520.0	4410.0	10.	201	520.0	4415.0	11.
202	520.0	4420.0	12.	203	520.0	4425.0	14.	204	520.0	4430.0	17.
205	520.0	4435.0	21.	206	520.0	4440.0	23.	207	520.0	4445.0	36.
208	520.0	4450.0	32.	209	520.0	4455.0	21.	210	520.0	4460.0	13.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	6.
214	525.0	4405.0	7.	215	525.0	4410.0	8.	216	525.0	4415.0	9.
217	525.0	4420.0	11.	218	525.0	4425.0	13.	219	525.0	4430.0	10.
220	525.0	4435.0	17.	221	525.0	4440.0	23.	222	525.0	4445.0	37.
223	525.0	4450.0	26.	224	525.0	4455.0	18.	225	525.0	4460.0	12.
226	489.0	4421.0	45.								

TABLE 17. 1980 SO₂ CONCENTRATIONS FOR STRATEGY 6

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	16.	2	455.0	4395.0	22.	3	455.0	4400.0	31.
4	455.0	4405.0	22.	5	455.0	4410.0	16.	6	455.0	4415.0	16.
7	455.0	4420.0	17.	8	455.0	4425.0	16.	9	455.0	4430.0	15.
10	455.0	4435.0	16.	11	455.0	4440.0	14.	12	455.0	4445.0	12.
13	455.0	4450.0	14.	14	455.0	4455.0	10.	15	455.0	4460.0	8.
16	460.0	4390.0	18.	17	460.0	4395.0	29.	18	460.0	4400.0	39.
19	460.0	4405.0	30.	20	460.0	4410.0	24.	21	460.0	4415.0	20.
22	460.0	4420.0	18.	23	460.0	4425.0	17.	24	460.0	4430.0	17.
25	460.0	4435.0	16.	26	460.0	4440.0	17.	27	460.0	4445.0	15.
28	460.0	4450.0	13.	29	460.0	4455.0	10.	30	460.0	4460.0	8.
31	465.0	4390.0	15.	32	465.0	4395.0	20.	33	465.0	4400.0	28.
34	465.0	4405.0	34.	35	465.0	4410.0	45.	36	465.0	4415.0	26.
37	465.0	4420.0	22.	38	465.0	4425.0	21.	39	465.0	4430.0	19.
40	465.0	4435.0	20.	41	465.0	4440.0	20.	42	465.0	4445.0	17.
43	465.0	4450.0	14.	44	465.0	4455.0	12.	45	465.0	4460.0	9.
46	470.0	4390.0	13.	47	470.0	4395.0	16.	48	470.0	4400.0	21.
49	470.0	4405.0	30.	50	470.0	4410.0	40.	51	470.0	4415.0	35.
52	470.0	4420.0	29.	53	470.0	4425.0	25.	54	470.0	4430.0	24.
55	470.0	4435.0	24.	56	470.0	4440.0	29.	57	470.0	4445.0	19.
58	470.0	4450.0	15.	59	470.0	4455.0	13.	60	470.0	4460.0	11.
61	475.0	4390.0	12.	62	475.0	4395.0	15.	63	475.0	4400.0	18.
64	475.0	4405.0	26.	65	475.0	4410.0	35.	66	475.0	4415.0	42.
67	475.0	4420.0	41.	68	475.0	4425.0	35.	69	475.0	4430.0	29.
70	475.0	4435.0	33.	71	475.0	4440.0	30.	72	475.0	4445.0	21.
73	475.0	4450.0	22.	74	475.0	4455.0	17.	75	475.0	4460.0	12.
76	480.0	4390.0	11.	77	480.0	4395.0	14.	78	480.0	4400.0	18.
79	480.0	4405.0	28.	80	480.0	4410.0	45.	81	480.0	4415.0	44.
82	480.0	4420.0	52.	83	480.0	4425.0	42.	84	480.0	4430.0	36.
85	480.0	4435.0	30.	86	480.0	4440.0	26.	87	480.0	4445.0	23.
88	480.0	4450.0	18.	89	480.0	4455.0	15.	90	480.0	4460.0	12.
91	485.0	4390.0	11.	92	485.0	4395.0	14.	93	485.0	4400.0	19.
94	485.0	4405.0	26.	95	485.0	4410.0	36.	96	485.0	4415.0	55.
97	485.0	4420.0	64.	98	485.0	4425.0	55.	99	485.0	4430.0	44.
100	485.0	4435.0	35.	101	485.0	4440.0	31.	102	485.0	4445.0	24.
103	485.0	4450.0	18.	104	485.0	4455.0	14.	105	485.0	4460.0	11.
106	490.0	4390.0	11.	107	490.0	4395.0	14.	108	490.0	4400.0	17.
109	490.0	4405.0	23.	110	490.0	4410.0	31.	111	490.0	4415.0	62.
112	490.0	4420.0	54.	113	490.0	4425.0	62.	114	490.0	4430.0	49.
115	490.0	4435.0	37.	116	490.0	4440.0	31.	117	490.0	4445.0	28.
118	490.0	4450.0	20.	119	490.0	4455.0	14.	120	490.0	4460.0	11.
121	495.0	4390.0	10.	122	495.0	4395.0	12.	123	495.0	4400.0	16.
124	495.0	4405.0	21.	125	495.0	4410.0	29.	126	495.0	4415.0	37.
127	495.0	4420.0	41.	128	495.0	4425.0	47.	129	495.0	4430.0	51.
130	495.0	4435.0	37.	131	495.0	4440.0	29.	132	495.0	4445.0	25.
133	495.0	4450.0	19.	134	495.0	4455.0	14.	135	495.0	4460.0	10.
136	500.0	4390.0	9.	137	500.0	4395.0	11.	138	500.0	4400.0	14.
139	500.0	4405.0	19.	140	500.0	4410.0	23.	141	500.0	4415.0	28.
142	500.0	4420.0	50.	143	500.0	4425.0	38.	144	500.0	4430.0	37.
145	500.0	4435.0	37.	146	500.0	4440.0	29.	147	500.0	4445.0	25.
148	500.0	4450.0	18.	149	500.0	4455.0	13.	150	500.0	4460.0	10.

TABLE 17 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	8.	152	505.0	4395.0	10.	153	505.0	4600.0	12.
154	505.0	4405.0	15.	155	505.0	4610.0	18.	156	505.0	4415.0	21.
157	505.0	4420.0	23.	158	505.0	4425.0	27.	159	505.0	4430.0	32.
160	505.0	4435.0	53.	161	505.0	4440.0	31.	162	505.0	4445.0	28.
163	510.0	4450.0	19.	164	505.0	4455.0	14.	165	505.0	4460.0	11.
166	510.0	4390.0	7.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	13.	170	510.0	4410.0	15.	171	510.0	4415.0	17.
172	510.0	4420.0	19.	173	510.0	4425.0	22.	174	510.0	4430.0	29.
175	510.0	4435.0	30.	176	510.0	4440.0	39.	177	510.0	4445.0	30.
178	510.0	4450.0	21.	179	510.0	4455.0	16.	180	510.0	4460.0	12.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	9.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	14.
187	515.0	4420.0	16.	188	515.0	4425.0	19.	189	515.0	4430.0	22.
190	515.0	4435.0	31.	191	515.0	4440.0	33.	192	515.0	4445.0	31.
193	515.0	4450.0	25.	194	515.0	4455.0	21.	195	515.0	4460.0	13.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	9.	200	520.0	4410.0	11.	201	520.0	4415.0	12.
202	520.0	4420.0	14.	203	520.0	4425.0	17.	204	520.0	4430.0	21.
205	520.0	4435.0	24.	206	520.0	4440.0	25.	207	520.0	4445.0	18.
208	520.0	4450.0	41.	209	520.0	4455.0	26.	210	520.0	4460.0	16.
211	525.0	4390.0	5.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	9.	216	525.0	4415.0	11.
217	525.0	4420.0	12.	218	525.0	4425.0	15.	219	525.0	4430.0	17.
220	525.0	4435.0	18.	221	525.0	4440.0	28.	222	525.0	4445.0	39.
223	525.0	4450.0	30.	224	525.0	4455.0	21.	225	525.0	4460.0	14.
226	489.0	4621.0	53.								

TABLE 18. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 1

NO.	WEST	NORTH	UG/M ³	NO.	WEST	NORTH	UG/M ³	NO.	WEST	NORTH	UG/M ³
1	455.0	4390.0	25.	2	455.0	4395.0	34.	3	455.0	4400.0	58.
4	455.0	4405.0	32.	5	455.0	4410.0	24.	6	455.0	4415.0	20.
7	455.0	4420.0	21.	8	455.0	4425.0	19.	9	455.0	4430.0	18.
10	455.0	4435.0	16.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	16.	14	455.0	4455.0	12.	15	455.0	4460.0	9.
16	460.0	4390.0	23.	17	460.0	4395.0	36.	18	460.0	4400.0	50.
19	460.0	4405.0	43.	20	460.0	4410.0	31.	21	460.0	4415.0	24.
22	460.0	4420.0	22.	23	460.0	4425.0	20.	24	460.0	4430.0	20.
25	460.0	4435.0	19.	26	460.0	4440.0	20.	27	460.0	4445.0	18.
27	460.0	4450.0	15.	29	460.0	4455.0	12.	30	460.0	4460.0	9.
31	465.0	4390.0	18.	32	465.0	4395.0	25.	33	465.0	4400.0	35.
34	465.0	4405.0	50.	35	465.0	4410.0	56.	36	465.0	4415.0	32.
37	465.0	4420.0	26.	38	465.0	4425.0	24.	39	465.0	4430.0	22.
40	465.0	4435.0	21.	41	465.0	4440.0	23.	42	465.0	4445.0	19.
43	465.0	4450.0	15.	44	465.0	4455.0	14.	45	465.0	4460.0	10.
46	470.0	4390.0	15.	47	470.0	4395.0	20.	48	470.0	4400.0	26.
49	470.0	4405.0	37.	50	470.0	4410.0	44.	51	470.0	4415.0	43.
52	470.0	4420.0	34.	53	470.0	4425.0	30.	54	470.0	4430.0	28.
55	470.0	4435.0	28.	56	470.0	4440.0	35.	57	470.0	4445.0	22.
58	470.0	4450.0	18.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	14.	62	475.0	4395.0	18.	63	475.0	4400.0	23.
64	475.0	4405.0	32.	65	475.0	4410.0	41.	66	475.0	4415.0	49.
67	475.0	4420.0	49.	68	475.0	4425.0	41.	69	475.0	4430.0	33.
70	475.0	4435.0	48.	71	475.0	4440.0	36.	72	475.0	4445.0	24.
73	475.0	4450.0	25.	74	475.0	4455.0	19.	75	475.0	4460.0	14.
76	480.0	4390.0	13.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	31.	80	480.0	4410.0	54.	81	480.0	4415.0	49.
82	480.0	4420.0	55.	83	480.0	4425.0	45.	84	480.0	4430.0	39.
85	480.0	4435.0	33.	86	480.0	4440.0	30.	87	480.0	4445.0	26.
88	480.0	4450.0	21.	89	480.0	4455.0	17.	90	480.0	4460.0	14.
91	485.0	4390.0	13.	92	485.0	4395.0	16.	93	485.0	4400.0	21.
94	485.0	4405.0	28.	95	485.0	4410.0	40.	96	485.0	4415.0	57.
97	485.0	4420.0	64.	98	485.0	4425.0	54.	99	485.0	4430.0	46.
100	485.0	4435.0	39.	101	485.0	4440.0	46.	102	485.0	4445.0	27.
103	485.0	4450.0	21.	104	485.0	4455.0	17.	105	485.0	4460.0	13.
106	490.0	4390.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	19.
109	490.0	4405.0	25.	110	490.0	4410.0	45.	111	490.0	4415.0	58.
112	490.0	4420.0	53.	113	490.0	4425.0	60.	114	490.0	4430.0	49.
115	490.0	4435.0	37.	116	490.0	4440.0	36.	117	490.0	4445.0	32.
118	490.0	4450.0	23.	119	490.0	4455.0	16.	120	490.0	4460.0	12.
121	495.0	4390.0	11.	122	495.0	4395.0	13.	123	495.0	4400.0	17.
124	495.0	4405.0	21.	125	495.0	4410.0	28.	126	495.0	4415.0	35.
127	495.0	4420.0	39.	128	495.0	4425.0	45.	129	495.0	4430.0	49.
130	495.0	4435.0	38.	131	495.0	4440.0	32.	132	495.0	4445.0	29.
133	495.0	4450.0	22.	134	495.0	4455.0	15.	135	495.0	4460.0	12.
136	500.0	4390.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	14.
139	500.0	4405.0	19.	140	500.0	4410.0	22.	141	500.0	4415.0	26.
142	500.0	4420.0	29.	143	500.0	4425.0	33.	144	500.0	4430.0	38.
145	500.0	4435.0	38.	146	500.0	4440.0	32.	147	500.0	4445.0	28.
148	500.0	4450.0	21.	149	500.0	4455.0	15.	150	500.0	4460.0	12.

TABLE 18 (continued).

NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S	NO.	EAST	NORTH	UG/M ² /S
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	13.
154	505.0	4405.0	15.	155	505.0	4410.0	14.	156	505.0	4415.0	21.
157	505.0	4420.0	23.	158	505.0	4425.0	26.	159	505.0	4430.0	32.
160	510.0	4435.0	58.	161	505.0	4440.0	35.	162	505.0	4445.0	32.
165	505.0	4450.0	21.	164	505.0	4455.0	15.	165	505.0	4460.0	12.
169	510.0	4390.0	8.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	13.	170	510.0	4410.0	15.	171	510.0	4415.0	17.
172	510.0	4420.0	19.	173	510.0	4425.0	21.	174	510.0	4430.0	28.
175	510.0	4435.0	36.	176	510.0	4440.0	39.	177	510.0	4445.0	34.
174	510.0	4450.0	23.	179	510.0	4455.0	17.	180	510.0	4460.0	13.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	14.
187	515.0	4420.0	16.	188	515.0	4425.0	19.	189	515.0	4430.0	22.
193	515.0	4435.0	31.	191	515.0	4440.0	35.	192	515.0	4445.0	35.
193	515.0	4450.0	27.	194	515.0	4455.0	20.	195	515.0	4460.0	13.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
149	520.0	4405.0	10.	200	520.0	4410.0	11.	201	520.0	4415.0	12.
202	520.0	4420.0	14.	203	520.0	4425.0	16.	204	520.0	4430.0	19.
205	520.0	4435.0	23.	206	520.0	4440.0	26.	207	520.0	4445.0	41.
208	520.0	4450.0	36.	209	520.0	4455.0	24.	210	520.0	4460.0	15.
211	525.0	4390.0	6.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	9.	216	525.0	4415.0	11.
217	525.0	4420.0	12.	218	525.0	4425.0	14.	219	525.0	4430.0	16.
220	525.0	4435.0	18.	221	525.0	4440.0	25.	222	525.0	4445.0	43.
223	525.0	4450.0	29.	224	525.0	4455.0	20.	225	525.0	4460.0	14.
226	499.4	4421.4	52.								

TABLE 19. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 2

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	18.	2	455.0	4395.0	26.	3	455.0	4400.0	39.
4	455.0	4405.0	26.	5	455.0	4410.0	21.	6	455.0	4415.0	19.
7	455.0	4420.0	20.	8	455.0	4425.0	14.	9	455.0	4430.0	17.
10	455.0	4435.0	16.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	15.	14	455.0	4455.0	11.	15	455.0	4460.0	9.
16	460.0	4390.0	19.	17	460.0	4395.0	30.	18	460.0	4400.0	35.
19	460.0	4405.0	34.	20	460.0	4410.0	27.	21	460.0	4415.0	22.
22	460.0	4420.0	21.	23	460.0	4425.0	19.	24	460.0	4430.0	19.
25	460.0	4435.0	18.	26	460.0	4440.0	19.	27	460.0	4445.0	18.
28	460.0	4450.0	15.	29	460.0	4455.0	11.	30	460.0	4460.0	9.
31	465.0	4390.0	15.	32	465.0	4395.0	21.	33	465.0	4400.0	29.
34	465.0	4405.0	42.	35	465.0	4410.0	51.	36	465.0	4415.0	30.
37	465.0	4420.0	25.	38	465.0	4425.0	23.	39	465.0	4430.0	21.
40	465.0	4435.0	23.	41	465.0	4440.0	23.	42	465.0	4445.0	19.
43	465.0	4450.0	16.	44	465.0	4455.0	13.	45	465.0	4460.0	10.
46	470.0	4390.0	13.	47	470.0	4395.0	17.	48	470.0	4400.0	22.
49	470.0	4405.0	33.	50	470.0	4410.0	45.	51	470.0	4415.0	40.
52	470.0	4420.0	33.	53	470.0	4425.0	29.	54	470.0	4430.0	27.
55	470.0	4435.0	28.	56	470.0	4440.0	35.	57	470.0	4445.0	22.
58	470.0	4450.0	18.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	13.	62	475.0	4395.0	16.	63	475.0	4400.0	20.
64	475.0	4405.0	29.	65	475.0	4410.0	39.	66	475.0	4415.0	47.
67	475.0	4420.0	48.	68	475.0	4425.0	40.	69	475.0	4430.0	33.
70	475.0	4435.0	38.	71	475.0	4440.0	35.	72	475.0	4445.0	24.
73	475.0	4450.0	25.	74	475.0	4455.0	19.	75	475.0	4460.0	14.
76	480.0	4390.0	12.	77	480.0	4395.0	15.	78	480.0	4400.0	20.
79	480.0	4405.0	29.	80	480.0	4410.0	53.	81	480.0	4415.0	47.
82	480.0	4420.0	54.	83	480.0	4425.0	44.	84	480.0	4430.0	39.
85	480.0	4435.0	33.	86	480.0	4440.0	30.	87	480.0	4445.0	26.
88	480.0	4450.0	21.	89	480.0	4455.0	17.	90	480.0	4460.0	13.
91	485.0	4390.0	12.	92	485.0	4395.0	15.	93	485.0	4400.0	19.
94	485.0	4405.0	27.	95	485.0	4410.0	39.	96	485.0	4415.0	56.
97	485.0	4420.0	63.	98	485.0	4425.0	58.	99	485.0	4430.0	45.
100	485.0	4435.0	38.	101	485.0	4440.0	36.	102	485.0	4445.0	27.
103	485.0	4450.0	21.	104	485.0	4455.0	16.	105	485.0	4460.0	13.
106	490.0	4390.0	11.	107	490.0	4395.0	14.	108	490.0	4400.0	18.
109	490.0	4405.0	24.	110	490.0	4410.0	34.	111	490.0	4415.0	57.
112	490.0	4420.0	58.	113	490.0	4425.0	60.	114	490.0	4430.0	48.
115	490.0	4435.0	39.	116	490.0	4440.0	35.	117	490.0	4445.0	32.
118	490.0	4450.0	22.	119	490.0	4455.0	16.	120	490.0	4460.0	12.
121	495.0	4390.0	10.	122	495.0	4395.0	12.	123	495.0	4400.0	16.
124	495.0	4405.0	20.	125	495.0	4410.0	28.	126	495.0	4415.0	35.
127	495.0	4420.0	39.	128	495.0	4425.0	44.	129	495.0	4430.0	49.
130	495.0	4435.0	38.	131	495.0	4440.0	32.	132	495.0	4445.0	29.
133	495.0	4450.0	21.	134	495.0	4455.0	15.	135	495.0	4460.0	12.
136	500.0	4390.0	9.	137	500.0	4395.0	11.	138	500.0	4400.0	14.
139	500.0	4405.0	18.	140	500.0	4410.0	22.	141	500.0	4415.0	26.
142	500.0	4420.0	29.	143	500.0	4425.0	32.	144	500.0	4430.0	36.
145	500.0	4435.0	38.	146	500.0	4440.0	31.	147	500.0	4445.0	28.
148	500.0	4450.0	20.	149	500.0	4455.0	15.	150	500.0	4460.0	11.

TABLE 19 (continued).

NO.	EAST	NORTH	UG/Mes3		NO.	EAST	NORTH	UG/Mes3		NO.	EAST	NORTH	UG/Mes3
151	505.0	4390.0	8.		152	505.0	4395.0	10.		153	505.0	4400.0	12.
150	505.0	4405.0	15.		155	505.0	4410.0	17.		156	505.0	4415.0	20.
157	505.0	4420.0	22.		158	505.0	4425.0	25.		159	505.0	4430.0	31.
160	505.0	4435.0	58.		161	505.0	4440.0	36.		162	505.0	4445.0	31.
163	505.0	4450.0	21.		164	505.0	4455.0	15.		165	505.0	4460.0	12.
166	510.0	4390.0	7.		167	510.0	4395.0	9.		168	510.0	4400.0	11.
169	510.0	4405.0	12.		170	510.0	4410.0	14.		171	510.0	4415.0	16.
172	510.0	4420.0	19.		173	510.0	4425.0	21.		174	510.0	4430.0	27.
175	510.0	4435.0	36.		176	510.0	4440.0	38.		177	510.0	4445.0	34.
178	510.0	4450.0	22.		179	510.0	4455.0	17.		180	510.0	4460.0	12.
181	515.0	4390.0	7.		182	515.0	4395.0	8.		183	515.0	4400.0	9.
184	515.0	4405.0	11.		185	515.0	4410.0	12.		186	515.0	4415.0	14.
187	515.0	4420.0	16.		188	515.0	4425.0	18.		189	515.0	4430.0	21.
190	515.0	4435.0	30.		191	515.0	4440.0	30.		192	515.0	4445.0	34.
193	515.0	4450.0	27.		194	515.0	4455.0	20.		195	515.0	4460.0	13.
196	520.0	4390.0	6.		197	520.0	4395.0	7.		198	520.0	4400.0	8.
199	520.0	4405.0	9.		200	520.0	4410.0	11.		201	520.0	4415.0	12.
202	520.0	4420.0	14.		203	520.0	4425.0	16.		204	520.0	4430.0	19.
205	520.0	4435.0	23.		206	520.0	4440.0	25.		207	520.0	4445.0	41.
208	520.0	4450.0	36.		209	520.0	4455.0	23.		210	520.0	4460.0	15.
211	525.0	4390.0	5.		212	525.0	4395.0	6.		213	525.0	4400.0	7.
214	525.0	4405.0	8.		215	525.0	4410.0	9.		216	525.0	4415.0	10.
217	525.0	4420.0	12.		218	525.0	4425.0	14.		219	525.0	4430.0	16.
220	525.0	4435.0	18.		221	525.0	4440.0	25.		222	525.0	4445.0	43.
223	525.0	4450.0	28.		224	525.0	4455.0	20.		225	525.0	4460.0	14.
226	489.4	4421.4	51.										

TABLE 20. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 3

NO.	FAST	NORTH	WG/M ³	NO.	FAST	NORTH	WG/M ³	NO.	FAST	NORTH	WG/M ³
1	455.0	4390.0	25.	2	455.0	4395.0	37.	3	455.0	4400.0	57.
4	455.0	4405.0	34.	5	455.0	4410.0	25.	6	455.0	4415.0	21.
7	455.0	4420.0	22.	8	455.0	4425.0	19.	9	455.0	4430.0	19.
10	455.0	4435.0	17.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	16.	14	455.0	4455.0	12.	15	455.0	4460.0	10.
16	460.0	4390.0	26.	17	460.0	4395.0	42.	18	460.0	4400.0	57.
19	460.0	4405.0	45.	20	460.0	4410.0	32.	21	460.0	4415.0	25.
22	460.0	4420.0	23.	23	460.0	4425.0	21.	24	460.0	4430.0	21.
25	460.0	4435.0	19.	26	460.0	4440.0	20.	27	460.0	4445.0	18.
28	460.0	4450.0	15.	29	460.0	4455.0	12.	30	460.0	4460.0	9.
31	465.0	4390.0	20.	32	465.0	4395.0	29.	33	465.0	4400.0	40.
34	465.0	4405.0	53.	35	465.0	4410.0	54.	36	465.0	4415.0	33.
37	465.0	4420.0	27.	38	465.0	4425.0	25.	39	465.0	4430.0	23.
40	465.0	4435.0	20.	41	465.0	4440.0	24.	42	465.0	4445.0	20.
43	465.0	4450.0	16.	44	465.0	4455.0	14.	45	465.0	4460.0	11.
46	470.0	4390.0	17.	47	470.0	4395.0	22.	48	470.0	4400.0	24.
49	470.0	4405.0	40.	50	470.0	4410.0	51.	51	470.0	4415.0	44.
52	470.0	4420.0	35.	53	470.0	4425.0	31.	54	470.0	4430.0	24.
55	470.0	4435.0	29.	56	470.0	4440.0	30.	57	470.0	4445.0	22.
58	470.0	4450.0	18.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	16.	62	475.0	4395.0	20.	63	475.0	4400.0	25.
64	475.0	4405.0	34.	65	475.0	4410.0	44.	66	475.0	4415.0	51.
67	475.0	4420.0	51.	68	475.0	4425.0	42.	69	475.0	4430.0	34.
70	475.0	4435.0	39.	71	475.0	4440.0	36.	72	475.0	4445.0	25.
73	475.0	4450.0	25.	74	475.0	4455.0	20.	75	475.0	4460.0	14.
76	480.0	4390.0	15.	77	480.0	4395.0	18.	78	480.0	4400.0	24.
79	480.0	4405.0	33.	80	480.0	4410.0	57.	81	480.0	4415.0	51.
82	480.0	4420.0	57.	83	480.0	4425.0	46.	84	480.0	4430.0	46.
85	480.0	4435.0	34.	86	480.0	4440.0	51.	87	480.0	4445.0	27.
88	480.0	4450.0	22.	89	480.0	4455.0	17.	90	480.0	4460.0	14.
91	485.0	4390.0	14.	92	485.0	4395.0	18.	93	485.0	4400.0	23.
94	485.0	4405.0	51.	95	485.0	4410.0	44.	96	485.0	4415.0	61.
97	485.0	4420.0	67.	98	485.0	4425.0	57.	99	485.0	4430.0	47.
100	485.0	4435.0	40.	101	485.0	4440.0	37.	102	485.0	4445.0	26.
103	485.0	4450.0	22.	104	485.0	4455.0	17.	105	485.0	4460.0	13.
106	490.0	4390.0	13.	107	490.0	4395.0	17.	106	490.0	4400.0	21.
109	490.0	4405.0	24.	110	490.0	4410.0	39.	111	490.0	4415.0	67.
112	490.0	4420.0	59.	113	490.0	4425.0	64.	114	490.0	4430.0	51.
115	490.0	4435.0	41.	116	490.0	4440.0	37.	117	490.0	4445.0	33.
118	490.0	4450.0	23.	119	490.0	4455.0	16.	120	490.0	4460.0	13.
121	495.0	4390.0	12.	122	495.0	4395.0	15.	123	495.0	4400.0	19.
124	495.0	4405.0	24.	125	495.0	4410.0	33.	126	495.0	4415.0	42.
127	495.0	4420.0	45.	128	495.0	4425.0	50.	124	495.0	4430.0	52.
130	495.0	4435.0	40.	131	495.0	4440.0	54.	132	495.0	4445.0	30.
133	495.0	4450.0	23.	134	495.0	4455.0	16.	135	495.0	4460.0	12.
136	500.0	4390.0	11.	137	500.0	4395.0	14.	138	500.0	4400.0	17.
139	500.0	4415.0	23.	139	500.0	4410.0	27.	141	500.0	4415.0	52.
142	500.0	4420.0	34.	143	500.0	4425.0	38.	140	500.0	4430.0	41.
145	500.0	4435.0	41.	146	500.0	4440.0	34.	147	500.0	4445.0	29.
148	500.0	4450.0	22.	149	500.0	4455.0	16.	150	500.0	4460.0	12.

TABLE 20 (continued).

NU.	FAST	MIRTH	UG/M**3	NU.	FAST	MIRTH	UG/M**3	NU.	FAST	MIRTH	UG/M**3
151	505.0	4390.0	10.	152	505.0	4395.0	12.	153	505.0	4400.0	15.
154	505.0	4405.0	18.	155	505.0	4410.0	21.	156	505.0	4415.0	25.
157	505.0	4420.0	27.	158	505.0	4425.0	31.	159	505.0	4430.0	37.
160	505.0	4435.0	62.	161	505.0	4440.0	37.	162	505.0	4445.0	33.
163	505.0	4450.0	23.	164	505.0	4455.0	17.	165	505.0	4460.0	13.
166	510.0	4390.0	9.	167	510.0	4395.0	11.	168	510.0	4400.0	13.
169	510.0	4405.0	15.	170	510.0	4410.0	17.	171	510.0	4415.0	20.
172	510.0	4420.0	22.	173	510.0	4425.0	26.	174	510.0	4430.0	34.
175	510.0	4435.0	41.	176	510.0	4440.0	42.	177	510.0	4445.0	36.
178	510.0	4450.0	25.	179	510.0	4455.0	19.	180	510.0	4460.0	14.
181	515.0	4390.0	8.	182	515.0	4395.0	9.	183	515.0	4400.0	11.
184	515.0	4405.0	13.	185	515.0	4410.0	15.	186	515.0	4415.0	17.
187	515.0	4420.0	19.	188	515.0	4425.0	23.	189	515.0	4430.0	27.
190	515.0	4435.0	36.	191	515.0	4440.0	40.	192	515.0	4445.0	38.
193	515.0	4450.0	31.	194	515.0	4455.0	25.	195	515.0	4460.0	16.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	10.
199	520.0	4405.0	11.	200	520.0	4410.0	13.	201	520.0	4415.0	15.
202	520.0	4420.0	17.	203	520.0	4425.0	20.	204	520.0	4430.0	25.
205	520.0	4435.0	28.	206	520.0	4440.0	30.	207	520.0	4445.0	46.
208	520.0	4450.0	49.	209	520.0	4455.0	31.	210	520.0	4460.0	18.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	10.	215	525.0	4410.0	11.	216	525.0	4415.0	13.
217	525.0	4420.0	15.	218	525.0	4425.0	18.	219	525.0	4430.0	20.
220	525.0	4435.0	22.	221	525.0	4440.0	29.	222	525.0	4445.0	48.
223	525.0	4450.0	35.	224	525.0	4455.0	27.	225	525.0	4460.0	17.
226	489.4	4421.0	56.								

TABLE 21. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 4

NO.	EAST	NORTH	UG/m ³	NO.	EAST	NORTH	UG/m ³	NO.	EAST	NORTH	UG/m ³
1	455.0	4390.0	20.	2	455.0	4395.0	29.	3	455.0	4400.0	42.
4	455.0	4405.0	27.	5	455.0	4410.0	22.	6	455.0	4415.0	19.
7	455.0	4420.0	20.	8	455.0	4425.0	19.	9	455.0	4430.0	18.
10	455.0	4435.0	16.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	16.	14	455.0	4455.0	12.	15	455.0	4460.0	9.
16	460.0	4460.0	23.	17	460.0	4465.0	36.	18	460.0	4470.0	43.
19	460.0	4485.0	36.	20	460.0	4490.0	29.	21	460.0	4495.0	23.
22	460.0	4490.0	21.	23	460.0	4495.0	20.	24	460.0	4500.0	20.
25	460.0	4435.0	16.	26	460.0	4440.0	20.	27	460.0	4445.0	18.
28	460.0	4450.0	15.	29	460.0	4455.0	12.	30	460.0	4460.0	9.
31	465.0	4390.0	17.	32	465.0	4395.0	25.	33	465.0	4400.0	34.
34	465.0	4405.0	49.	35	465.0	4410.0	52.	36	465.0	4415.0	31.
37	465.0	4420.0	26.	38	465.0	4425.0	24.	39	465.0	4430.0	22.
40	465.0	4435.0	23.	41	465.0	4440.0	23.	42	465.0	4445.0	19.
43	465.0	4450.0	16.	44	465.0	4455.0	13.	45	465.0	4460.0	10.
46	470.0	4391.0	19.	47	470.0	4395.0	14.	48	470.0	4400.0	25.
49	470.0	4405.0	36.	50	470.0	4410.0	47.	51	470.0	4415.0	42.
52	470.0	4420.0	34.	53	470.0	4425.0	30.	54	470.0	4430.0	28.
55	470.0	4450.0	28.	56	470.0	4460.0	35.	57	470.0	4465.0	22.
58	470.0	4450.0	16.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	10.	62	475.0	4395.0	18.	63	475.0	4400.0	27.
64	475.0	4405.0	31.	65	475.0	4410.0	42.	66	475.0	4415.0	40.
67	475.0	4420.0	40.	68	475.0	4425.0	41.	69	475.0	4430.0	33.
70	475.0	4435.0	38.	71	475.0	4440.0	36.	72	475.0	4445.0	25.
73	475.0	4450.0	25.	74	475.0	4455.0	19.	75	475.0	4460.0	14.
76	480.0	4390.0	13.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	31.	80	480.0	4410.0	56.	81	480.0	4415.0	50.
82	480.0	4420.0	55.	83	480.0	4425.0	45.	84	480.0	4430.0	40.
85	480.0	4435.0	34.	86	480.0	4440.0	30.	87	480.0	4445.0	26.
88	480.0	4450.0	22.	89	480.0	4455.0	17.	90	480.0	4460.0	14.
91	485.0	4460.0	13.	92	485.0	4345.0	16.	93	485.0	4460.0	22.
94	485.0	4465.0	30.	95	485.0	4470.0	43.	96	485.0	4475.0	60.
97	485.0	4480.0	66.	98	485.0	4490.0	56.	99	485.0	4495.0	46.
100	485.0	4435.0	39.	101	485.0	4440.0	36.	102	485.0	4445.0	28.
103	485.0	4450.0	22.	104	485.0	4455.0	17.	105	485.0	4460.0	13.
106	490.0	4390.0	13.	107	490.0	4395.0	16.	108	490.0	4400.0	20.
109	490.0	4405.0	27.	110	490.0	4410.0	38.	111	490.0	4415.0	66.
112	490.0	4420.0	58.	113	490.0	4425.0	63.	114	490.0	4430.0	51.
115	490.0	4435.0	41.	116	490.0	4440.0	36.	117	490.0	4445.0	33.
118	490.0	4450.0	23.	119	490.0	4455.0	16.	120	490.0	4460.0	13.
121	495.0	4390.0	12.	122	495.0	4395.0	14.	123	495.0	4400.0	19.
124	495.0	4405.0	24.	125	495.0	4410.0	33.	126	495.0	4415.0	41.
127	495.0	4420.0	45.	128	495.0	4425.0	49.	129	495.0	4430.0	52.
130	495.0	4435.0	40.	131	495.0	4440.0	33.	132	495.0	4445.0	30.
133	495.0	4450.0	22.	134	495.0	4455.0	16.	135	495.0	4460.0	12.
136	500.0	4390.0	11.	137	500.0	4395.0	13.	138	500.0	4400.0	16.
139	500.0	4405.0	22.	140	500.0	4410.0	26.	141	500.0	4415.0	31.
142	500.0	4420.0	34.	143	500.0	4425.0	37.	144	500.0	4430.0	40.
145	500.0	4435.0	41.	146	500.0	4440.0	33.	147	500.0	4445.0	29.
148	500.0	4450.0	21.	149	500.0	4455.0	16.	150	500.0	4460.0	17.

TABLE 21 (continued).

NO.	EAST	NORTH	UG/M ² /S ³	NO.	EAST	NORTH	UG/M ² /S ³	NO.	EAST	NORTH	UG/M ² /S ³
151	505.0	4390.0	10.	152	505.0	4395.0	12.	153	505.0	4400.0	14.
154	505.0	4405.0	18.	155	505.0	4410.0	21.	156	505.0	4415.0	24.
157	505.0	4420.0	26.	158	505.0	4425.0	30.	159	505.0	4430.0	37.
160	505.0	4435.0	62.	161	505.0	4440.0	36.	162	505.0	4445.0	33.
163	510.0	4450.0	22.	164	510.0	4455.0	16.	165	510.0	4460.0	13.
166	510.0	4460.0	9.	167	510.0	4465.0	10.	168	510.0	4470.0	13.
169	510.0	4465.0	15.	170	510.0	4470.0	17.	171	510.0	4475.0	19.
172	510.0	4470.0	22.	173	510.0	4475.0	25.	174	510.0	4480.0	34.
175	510.0	4485.0	41.	176	510.0	4490.0	42.	177	510.0	4495.0	36.
178	510.0	4495.0	25.	179	510.0	4505.0	19.	180	510.0	4510.0	14.
181	515.0	4490.0	8.	182	515.0	4515.0	9.	183	515.0	4520.0	11.
180	515.0	4505.0	12.	185	515.0	4510.0	15.	186	515.0	4515.0	16.
187	515.0	4520.0	19.	188	515.0	4525.0	23.	189	515.0	4530.0	26.
190	515.0	4535.0	36.	191	515.0	4540.0	39.	192	515.0	4545.0	37.
193	515.0	4545.0	31.	194	515.0	4549.0	25.	195	515.0	4560.0	16.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	9.
199	520.0	4405.0	11.	200	520.0	4410.0	12.	201	520.0	4415.0	14.
202	520.0	4420.0	16.	203	520.0	4425.0	20.	204	520.0	4430.0	24.
205	520.0	4435.0	24.	206	520.0	4440.0	30.	207	520.0	4445.0	45.
208	520.0	4450.0	49.	209	520.0	4455.0	31.	210	520.0	4460.0	18.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	8.
214	525.0	4405.0	9.	215	525.0	4410.0	11.	216	525.0	4415.0	12.
217	525.0	4420.0	14.	218	525.0	4425.0	18.	219	525.0	4430.0	20.
220	525.0	4435.0	22.	221	525.0	4440.0	29.	222	525.0	4445.0	48.
223	525.0	4450.0	35.	224	525.0	4455.0	27.	225	525.0	4460.0	17.
226	489.0	4421.4	56.								

TABLE 22. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 5

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	23.	2	455.0	4395.0	34.	3	455.0	4400.0	54.
4	455.0	4405.0	33.	5	455.0	4410.0	24.	6	455.0	4415.0	20.
7	455.0	4420.0	26.	8	455.0	4425.0	18.	9	455.0	4430.0	18.
10	455.0	4435.0	16.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	15.	14	455.0	4455.0	12.	15	455.0	4460.0	10.
16	460.0	4390.0	23.	17	460.0	4395.0	36.	18	460.0	4400.0	50.
19	460.0	4405.0	43.	20	460.0	4410.0	32.	21	460.0	4415.0	25.
22	460.0	4420.0	22.	23	460.0	4425.0	20.	24	460.0	4430.0	20.
25	460.0	4435.0	19.	26	460.0	4440.0	20.	27	460.0	4445.0	18.
28	460.0	4450.0	15.	29	460.0	4455.0	12.	30	460.0	4460.0	9.
31	465.0	4390.0	18.	32	465.0	4395.0	26.	33	465.0	4400.0	36.
34	465.0	4405.0	52.	35	465.0	4410.0	60.	36	465.0	4415.0	34.
37	465.0	4420.0	27.	38	465.0	4425.0	25.	39	465.0	4430.0	23.
40	465.0	4435.0	25.	41	465.0	4440.0	25.	42	465.0	4445.0	20.
43	465.0	4450.0	10.	44	465.0	4455.0	13.	45	465.0	4460.0	10.
46	470.0	4390.0	16.	47	470.0	4395.0	20.	48	470.0	4400.0	27.
49	470.0	4405.0	36.	50	470.0	4410.0	53.	51	470.0	4415.0	46.
52	470.0	4420.0	36.	53	470.0	4425.0	31.	54	470.0	4430.0	29.
55	470.0	4435.0	32.	56	470.0	4440.0	39.	57	470.0	4445.0	23.
58	470.0	4450.0	18.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	15.	62	475.0	4395.0	18.	63	475.0	4400.0	24.
64	475.0	4405.0	33.	65	475.0	4410.0	44.	66	475.0	4415.0	52.
67	475.0	4420.0	52.	68	475.0	4425.0	43.	69	475.0	4430.0	36.
70	475.0	4435.0	46.	71	475.0	4440.0	41.	72	475.0	4445.0	26.
73	475.0	4450.0	28.	74	475.0	4455.0	19.	75	475.0	4460.0	13.
76	480.0	4390.0	14.	77	480.0	4395.0	17.	78	480.0	4400.0	22.
79	480.0	4405.0	32.	80	480.0	4410.0	55.	81	480.0	4415.0	49.
82	480.0	4420.0	55.	83	480.0	4425.0	45.	84	480.0	4430.0	40.
85	480.0	4435.0	36.	86	480.0	4440.0	33.	87	480.0	4445.0	22.
88	480.0	4450.0	22.	89	480.0	4455.0	17.	90	480.0	4460.0	13.
91	485.0	4390.0	13.	92	485.0	4395.0	16.	93	485.0	4400.0	21.
94	485.0	4405.0	29.	95	485.0	4410.0	41.	96	485.0	4415.0	55.
97	485.0	4420.0	62.	98	485.0	4425.0	53.	99	485.0	4430.0	45.
100	485.0	4435.0	40.	101	485.0	4440.0	37.	102	485.0	4445.0	22.
103	485.0	4450.0	22.	104	485.0	4455.0	16.	105	485.0	4460.0	13.
106	490.0	4390.0	12.	107	490.0	4395.0	15.	108	490.0	4400.0	19.
109	490.0	4405.0	25.	110	490.0	4410.0	35.	111	490.0	4415.0	57.
112	490.0	4420.0	51.	113	490.0	4425.0	57.	114	490.0	4430.0	47.
115	490.0	4435.0	41.	116	490.0	4440.0	38.	117	490.0	4445.0	32.
118	490.0	4450.0	22.	119	490.0	4455.0	16.	120	490.0	4460.0	12.
121	495.0	4390.0	11.	122	495.0	4395.0	13.	123	495.0	4400.0	17.
124	495.0	4405.0	21.	125	495.0	4410.0	26.	126	495.0	4415.0	35.
127	495.0	4420.0	38.	128	495.0	4425.0	43.	129	495.0	4430.0	47.
130	495.0	4435.0	38.	131	495.0	4440.0	33.	132	495.0	4445.0	29.
133	495.0	4450.0	21.	134	495.0	4455.0	15.	135	495.0	4460.0	12.
136	500.0	4390.0	10.	137	500.0	4395.0	12.	138	500.0	4400.0	14.
139	500.0	4405.0	19.	140	500.0	4410.0	22.	141	500.0	4415.0	26.
142	500.0	4420.0	28.	143	500.0	4425.0	32.	144	500.0	4430.0	35.
145	500.0	4435.0	36.	146	500.0	4440.0	32.	147	500.0	4445.0	22.
148	500.0	4450.0	20.	149	500.0	4455.0	15.	150	500.0	4460.0	12.

TABLE 22 (continued).

NO.	EAST	NORTH	UG/M ⁰⁰³	NO.	EAST	NORTH	UG/M ⁰⁰³	NO.	EAST	NORTH	UG/M ⁰⁰³
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	13.
154	505.0	4405.0	15.	155	505.0	4410.0	18.	156	505.0	4415.0	21.
157	505.0	4420.0	22.	158	505.0	4425.0	25.	159	505.0	4430.0	32.
160	505.0	4435.0	59.	161	505.0	4440.0	35.	162	505.0	4445.0	31.
163	505.0	4450.0	21.	164	505.0	4455.0	15.	165	505.0	4460.0	12.
166	510.0	4390.0	8.	167	510.0	4395.0	9.	168	510.0	4400.0	11.
169	510.0	4405.0	13.	170	510.0	4410.0	15.	171	510.0	4415.0	17.
172	510.0	4420.0	19.	173	510.0	4425.0	21.	174	510.0	4430.0	28.
175	510.0	4435.0	37.	176	510.0	4440.0	41.	177	510.0	4445.0	34.
178	510.0	4450.0	23.	179	510.0	4455.0	17.	180	510.0	4460.0	13.
181	515.0	4390.0	7.	182	515.0	4395.0	8.	183	515.0	4400.0	10.
184	515.0	4405.0	11.	185	515.0	4410.0	13.	186	515.0	4415.0	14.
187	515.0	4420.0	16.	188	515.0	4425.0	19.	189	515.0	4430.0	22.
190	515.0	4435.0	32.	191	515.0	4440.0	38.	192	515.0	4445.0	38.
193	515.0	4450.0	28.	194	515.0	4455.0	21.	195	515.0	4460.0	14.
196	520.0	4390.0	6.	197	520.0	4395.0	7.	198	520.0	4400.0	8.
199	520.0	4405.0	10.	200	520.0	4410.0	11.	201	520.0	4415.0	12.
202	520.0	4420.0	14.	203	520.0	4425.0	17.	204	520.0	4430.0	20.
205	520.0	4435.0	24.	206	520.0	4440.0	28.	207	520.0	4445.0	-3.
208	520.0	4450.0	38.	209	520.0	4455.0	24.	210	520.0	4460.0	15.
211	525.0	4390.0	6.	212	525.0	4395.0	6.	213	525.0	4400.0	7.
214	525.0	4405.0	8.	215	525.0	4410.0	9.	216	525.0	4415.0	11.
217	525.0	4420.0	12.	218	525.0	4425.0	15.	219	525.0	4430.0	17.
220	525.0	4435.0	19.	221	525.0	4440.0	27.	222	525.0	4445.0	44.
223	525.0	4450.0	30.	224	525.0	4455.0	21.	225	525.0	4460.0	14.
226	489.4	4421.4	50.								

TABLE 23. 1990 SO₂ CONCENTRATIONS FOR STRATEGY 6

NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³	NO.	EAST	NORTH	UG/M ³
1	455.0	4390.0	19.	2	455.0	4395.0	20.	3	455.0	4400.0	38.
4	455.0	4405.0	26.	5	455.0	4410.0	21.	6	455.0	4415.0	19.
7	455.0	4420.0	20.	8	455.0	4425.0	18.	9	455.0	4430.0	17.
10	455.0	4435.0	16.	11	455.0	4440.0	17.	12	455.0	4445.0	14.
13	455.0	4450.0	15.	14	455.0	4455.0	11.	15	455.0	4460.0	9.
16	460.0	4490.0	22.	17	460.0	4495.0	35.	18	460.0	4400.0	41.
19	460.0	4405.0	34.	20	460.0	4410.0	27.	21	460.0	4415.0	22.
22	460.0	4420.0	21.	23	460.0	4425.0	19.	24	460.0	4430.0	19.
25	460.0	4435.0	18.	26	460.0	4440.0	19.	27	460.0	4445.0	18.
28	460.0	4450.0	15.	29	460.0	4455.0	11.	30	460.0	4460.0	9.
31	465.0	4390.0	17.	32	465.0	4395.0	24.	33	465.0	4400.0	33.
34	465.0	4405.0	49.	35	465.0	4410.0	50.	36	465.0	4415.0	29.
37	465.0	4420.0	24.	38	465.0	4425.0	23.	39	465.0	4430.0	21.
40	465.0	4435.0	22.	41	465.0	4440.0	23.	42	465.0	4445.0	19.
43	465.0	4450.0	16.	44	465.0	4455.0	13.	45	465.0	4460.0	10.
46	470.0	4390.0	15.	47	470.0	4395.0	18.	48	470.0	4400.0	24.
49	470.0	4405.0	35.	50	470.0	4410.0	45.	51	470.0	4415.0	39.
52	470.0	4420.0	31.	53	470.0	4425.0	28.	54	470.0	4430.0	26.
55	470.0	4435.0	27.	56	470.0	4440.0	33.	57	470.0	4445.0	21.
58	470.0	4450.0	18.	59	470.0	4455.0	15.	60	470.0	4460.0	13.
61	475.0	4390.0	14.	62	475.0	4395.0	17.	63	475.0	4400.0	21.
64	475.0	4405.0	30.	65	475.0	4410.0	40.	66	475.0	4415.0	46.
67	475.0	4420.0	45.	68	475.0	4425.0	38.	69	475.0	4430.0	32.
70	475.0	4435.0	36.	71	475.0	4440.0	34.	72	475.0	4445.0	20.
73	475.0	4450.0	25.	74	475.0	4455.0	19.	75	475.0	4460.0	18.
76	480.0	4390.0	13.	77	480.0	4395.0	16.	78	480.0	4400.0	21.
79	480.0	4405.0	30.	80	480.0	4410.0	54.	81	480.0	4415.0	48.
82	480.0	4420.0	53.	83	480.0	4425.0	43.	84	480.0	4430.0	38.
85	480.0	4435.0	32.	86	480.0	4440.0	29.	87	480.0	4445.0	25.
88	480.0	4450.0	21.	89	480.0	4455.0	17.	90	480.0	4460.0	13.
91	485.0	4390.0	13.	92	485.0	4395.0	16.	93	485.0	4400.0	21.
94	485.0	4405.0	29.	95	485.0	4410.0	41.	96	485.0	4415.0	58.
97	485.0	4420.0	64.	98	485.0	4425.0	55.	99	485.0	4430.0	45.
100	485.0	4435.0	37.	101	485.0	4440.0	35.	102	485.0	4445.0	27.
103	485.0	4450.0	21.	104	485.0	4455.0	16.	105	485.0	4460.0	13.
106	490.0	4390.0	12.	107	490.0	4395.0	16.	108	490.0	4400.0	20.
109	490.0	4405.0	26.	109	490.0	4410.0	37.	111	490.0	4415.0	63.
112	490.0	4420.0	55.	113	490.0	4425.0	62.	114	490.0	4430.0	49.
115	490.0	4435.0	39.	116	490.0	4440.0	38.	117	490.0	4445.0	31.
118	490.0	4450.0	22.	119	490.0	4455.0	16.	120	490.0	4460.0	12.
121	495.0	4390.0	11.	122	495.0	4395.0	14. ⁰	123	495.0	4400.0	18.
124	495.0	4405.0	23.	125	495.0	4410.0	37.	126	495.0	4415.0	40.
127	495.0	4420.0	43.	128	495.0	4425.0	48.	129	495.0	4430.0	51.
130	495.0	4435.0	30.	131	495.0	4440.0	32.	132	495.0	4445.0	29.
133	495.0	4450.0	22.	134	495.0	4455.0	16.	135	495.0	4460.0	12.
136	500.0	4390.0	11.	137	500.0	4395.0	15.	138	500.0	4400.0	16.
139	500.0	4405.0	22.	140	500.0	4410.0	25.	141	500.0	4415.0	30.
142	500.0	4420.0	33.	143	500.0	4425.0	36.	144	500.0	4430.0	39.
145	500.0	4435.0	40.	146	500.0	4440.0	32.	147	500.0	4445.0	28.
148	500.0	4450.0	21.	149	500.0	4455.0	15.	150	500.0	4460.0	12.

TABLE 23 (continued).

NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass	NO.	EAST	NORTH	UG/Mass
151	505.0	4390.0	9.	152	505.0	4395.0	11.	153	505.0	4400.0	14.
154	505.0	4405.0	17.	155	505.0	4410.0	20.	156	505.0	4415.0	24.
157	505.0	4420.0	25.	158	505.0	4425.0	29.	159	505.0	4430.0	36.
160	505.0	4435.0	61.	161	505.0	4440.0	35.	162	505.0	4445.0	32.
163	505.0	4450.0	22.	164	505.0	4455.0	16.	165	505.0	4460.0	12.
166	510.0	4390.0	8.	167	510.0	4395.0	10.	168	510.0	4400.0	12.
169	510.0	4405.0	14.	170	510.0	4410.0	17.	171	510.0	4415.0	19.
172	510.0	4420.0	21.	173	510.0	4425.0	25.	174	510.0	4430.0	33.
175	510.0	4435.0	40.	176	510.0	4440.0	00.	177	510.0	4445.0	35.
178	510.0	4450.0	24.	179	510.0	4455.0	18.	180	510.0	4460.0	14.
181	515.0	4390.0	7.	182	515.0	4395.0	9.	183	515.0	4400.0	10.
184	515.0	4405.0	12.	185	515.0	4410.0	14.	186	515.0	4415.0	16.
187	515.0	4420.0	18.	188	515.0	4425.0	22.	189	515.0	4430.0	26.
190	515.0	4435.0	35.	191	515.0	4440.0	38.	192	515.0	4445.0	36.
193	515.0	4450.0	29.	194	515.0	4455.0	24.	195	515.0	4460.0	15.
196	520.0	4390.0	7.	197	520.0	4395.0	8.	198	520.0	4400.0	9.
199	520.0	4405.0	10.	200	520.0	4410.0	12.	201	520.0	4415.0	14.
202	520.0	4420.0	16.	203	520.0	4425.0	20.	204	520.0	4430.0	20.
205	520.0	4435.0	27.	206	520.0	4440.0	29.	207	520.0	4445.0	44.
208	520.0	4450.0	48.	209	520.0	4455.0	31.	210	520.0	4460.0	18.
211	525.0	4390.0	6.	212	525.0	4395.0	7.	213	525.0	4400.0	6.
214	525.0	4405.0	9.	215	525.0	4410.0	10.	216	525.0	4415.0	12.
217	525.0	4420.0	14.	218	525.0	4425.0	18.	219	525.0	4430.0	19.
220	525.0	4435.0	21.	221	525.0	4440.0	28.	222	525.0	4445.0	67.
223	525.0	4450.0	35.	224	525.0	4455.0	26.	225	525.0	4460.0	17.
226	489.0	4421.0	58.								

TABLE 24. SELECTED RECEPTORS FOR SOURCE/RECEPTOR ANALYSIS

Km, east	Km, north	Location (county)
455.0	4400.0	New Castle
465.0	4410.0	Delaware
470.0	4410.0	Delaware
485.0	4415.0	Philadelphia
485.0	4420.0	Philadelphia
485.0	4425.0	Philadelphia
490.0	4415.0	Camden
490.0	4420.0	Camden
490.0	4425.0	Camden
520.0	4450.0	Mercer

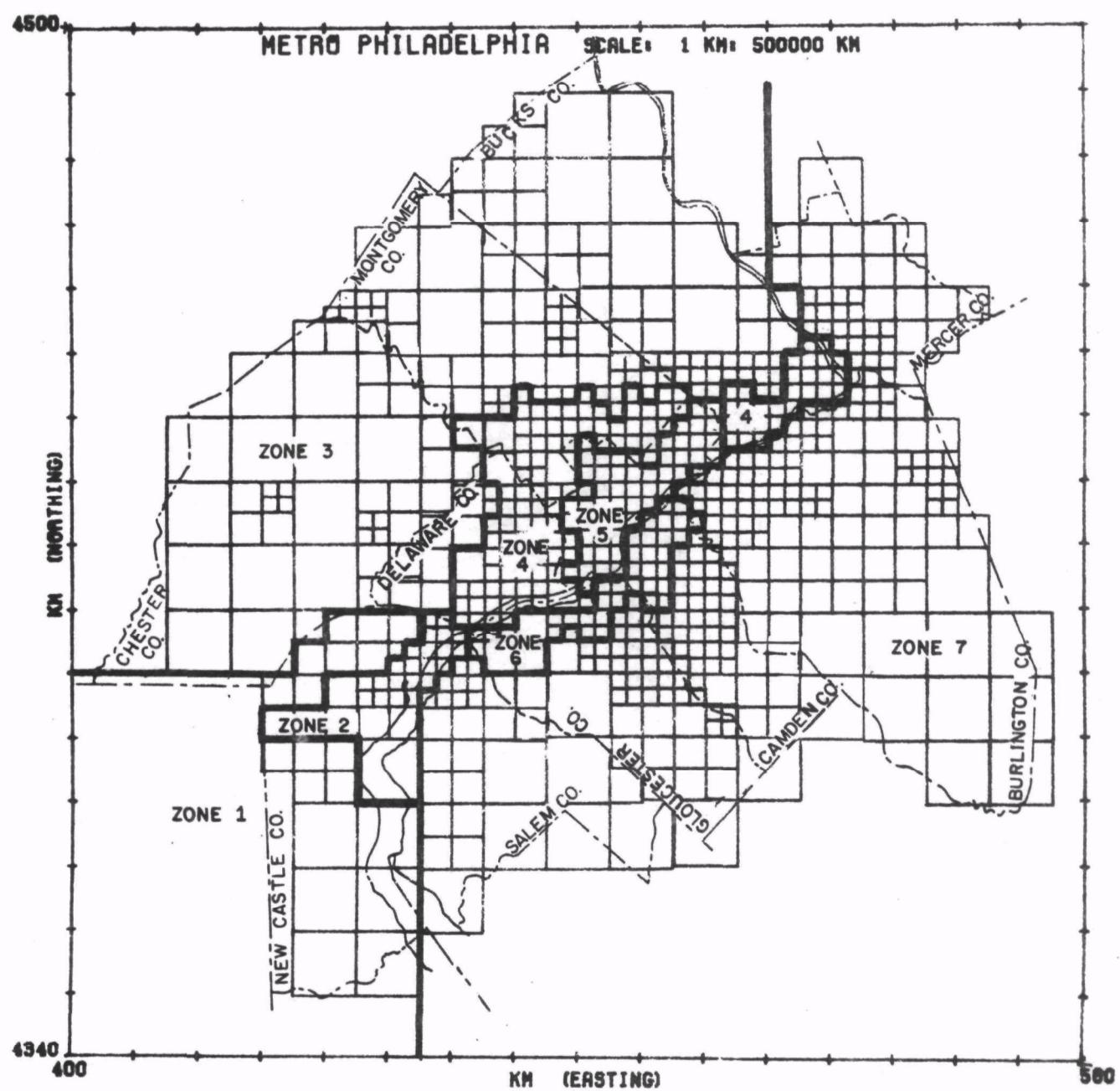


Figure 1. Zone definition for strategy analysis.

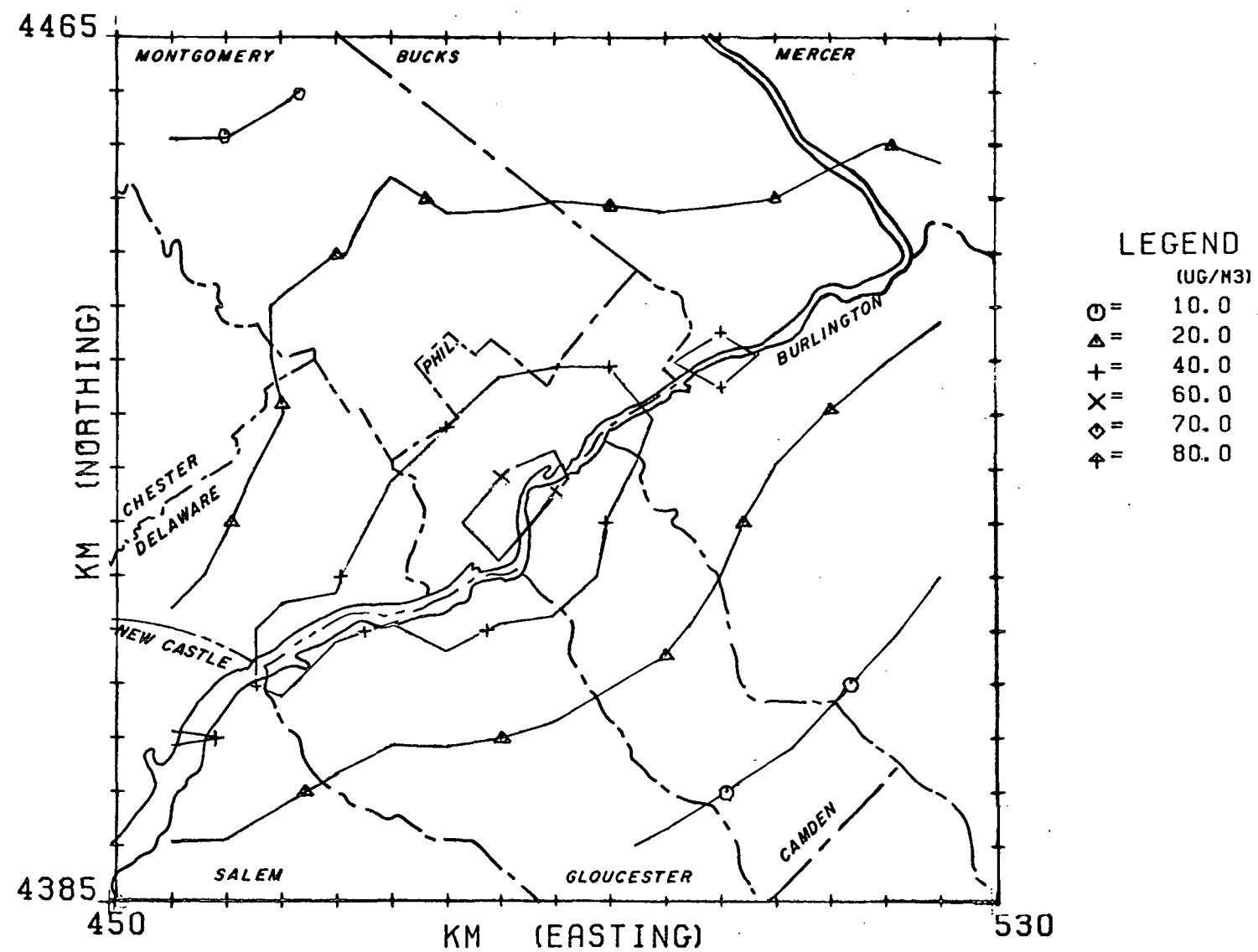


Figure 2. 1978 SO_2 air quality for strategy 1.

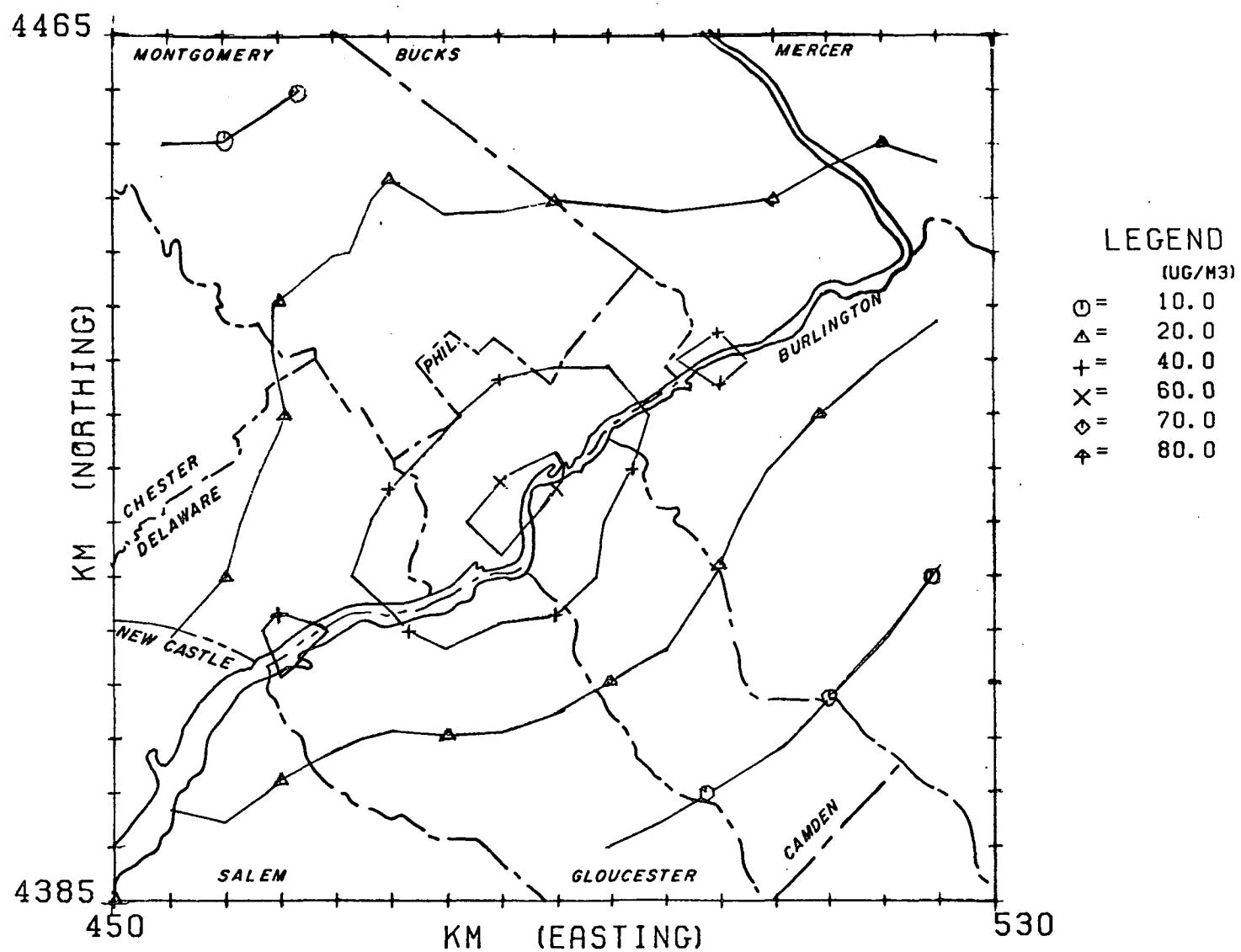


Figure 3. 1978 SO_2 air quality for strategy 2.

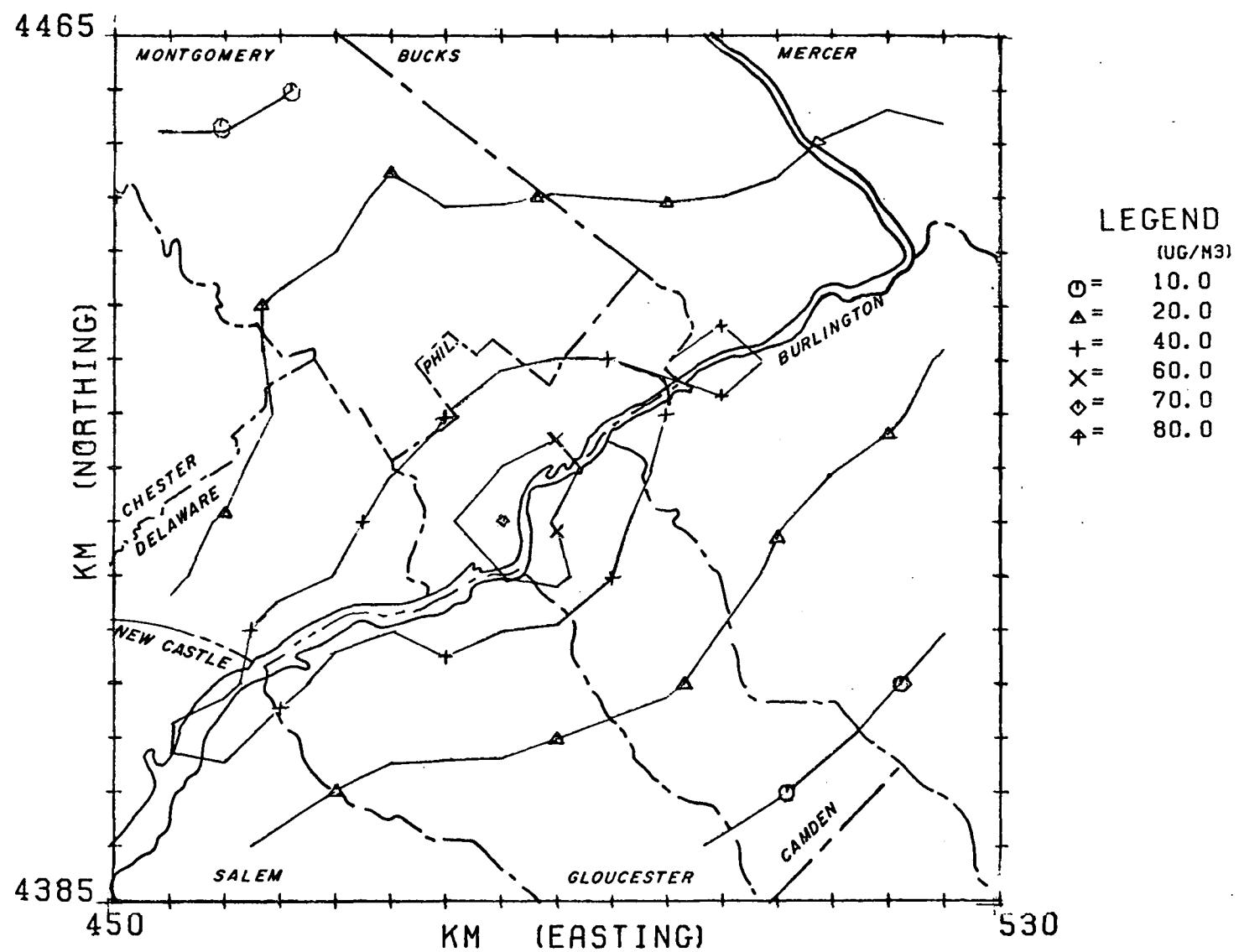


Figure 4. 1978 SO₂ air quality for strategy 3.

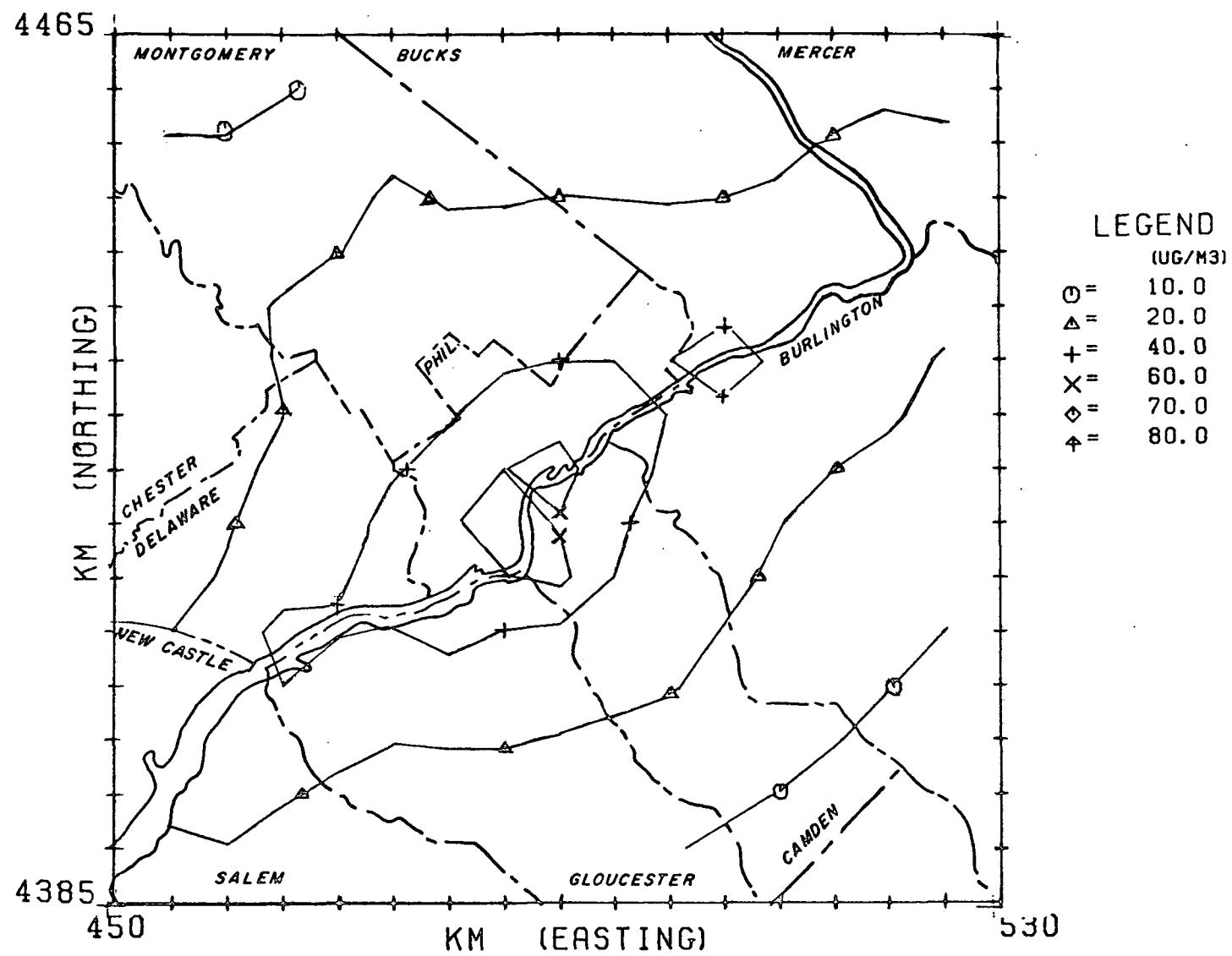


Figure 5. 1978 SO_2 air quality for strategy 4.

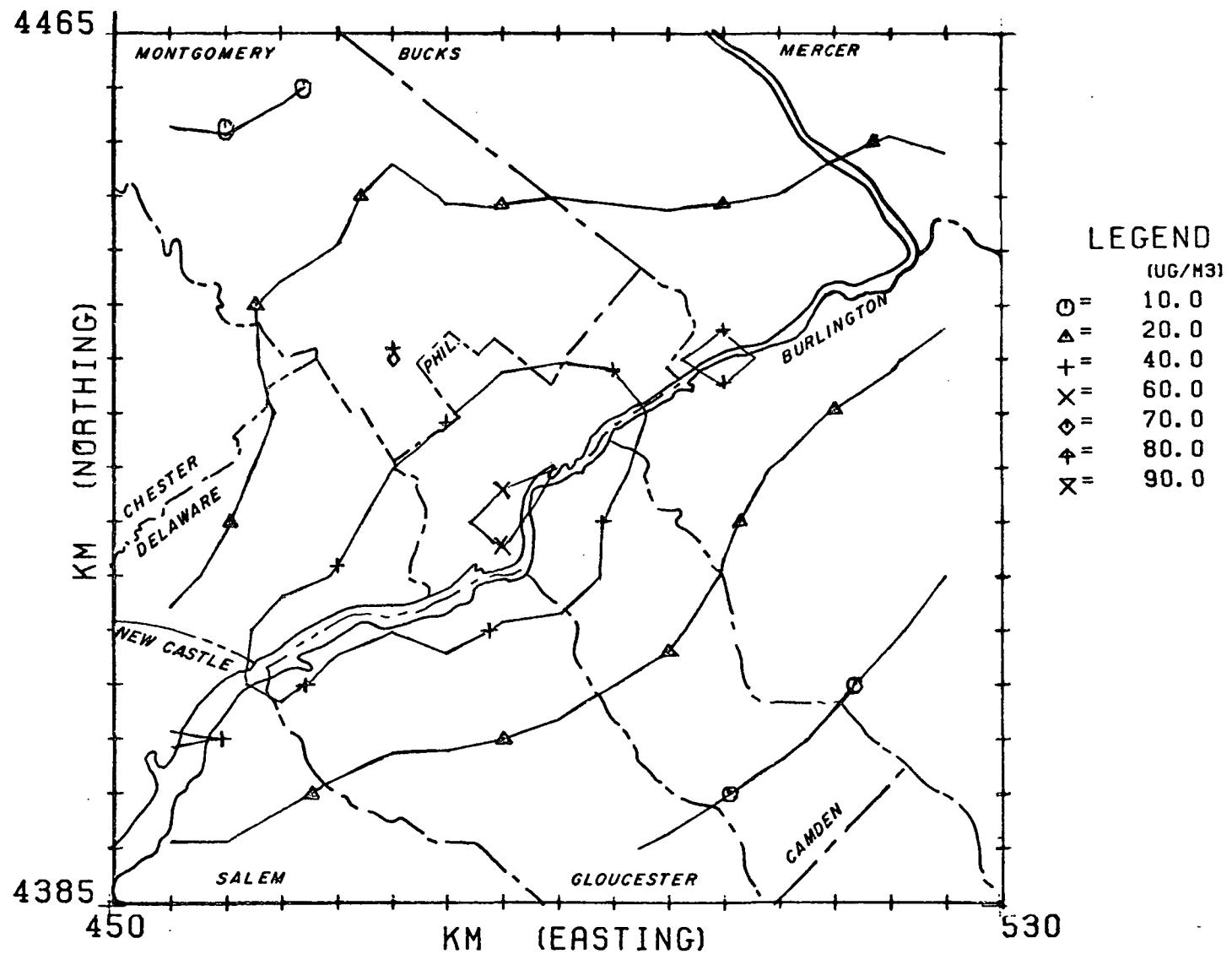


Figure 6. 1978 SO_2 air quality for strategy 5.

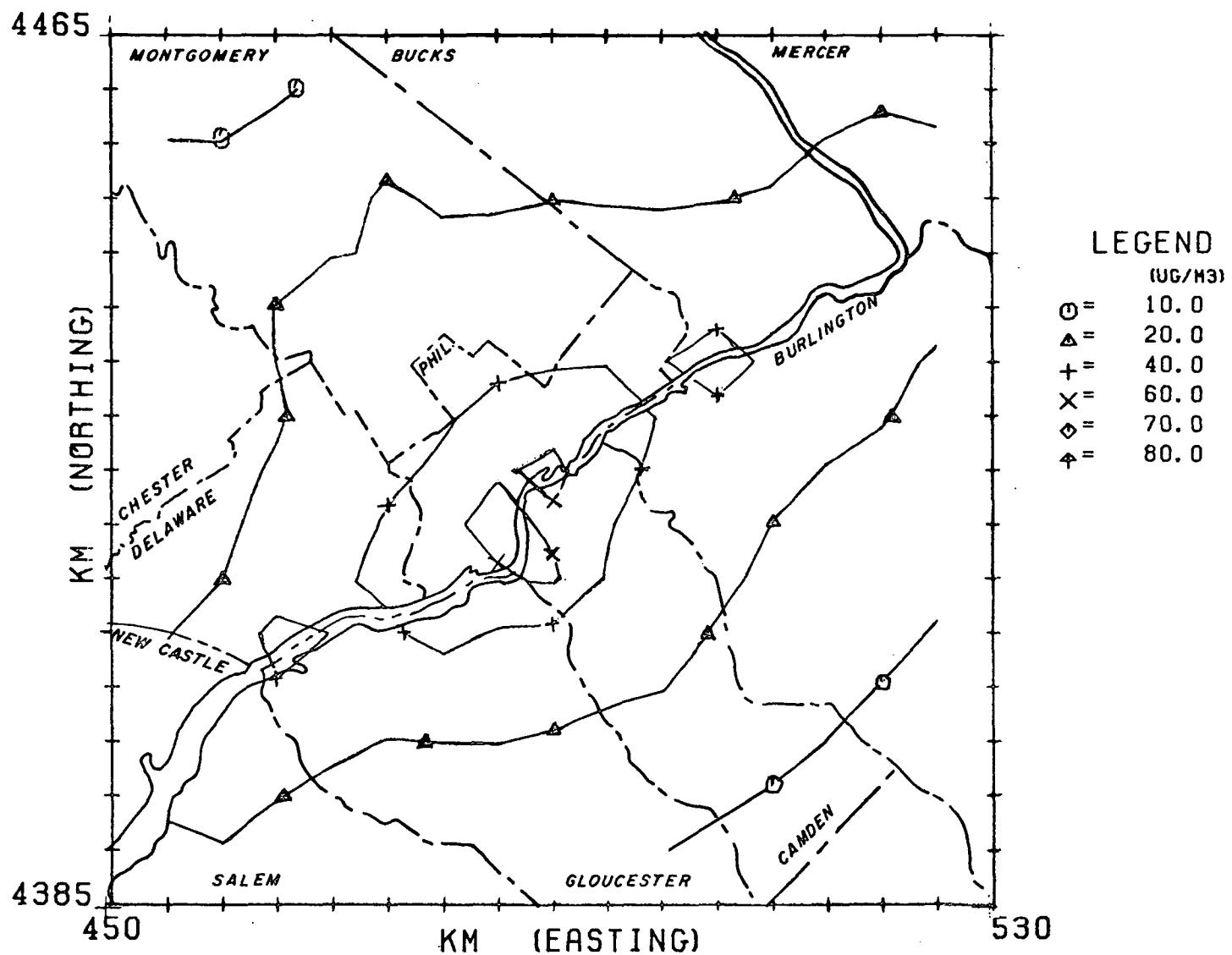


Figure 7. 1978 SO_2 air quality for strategy 6.

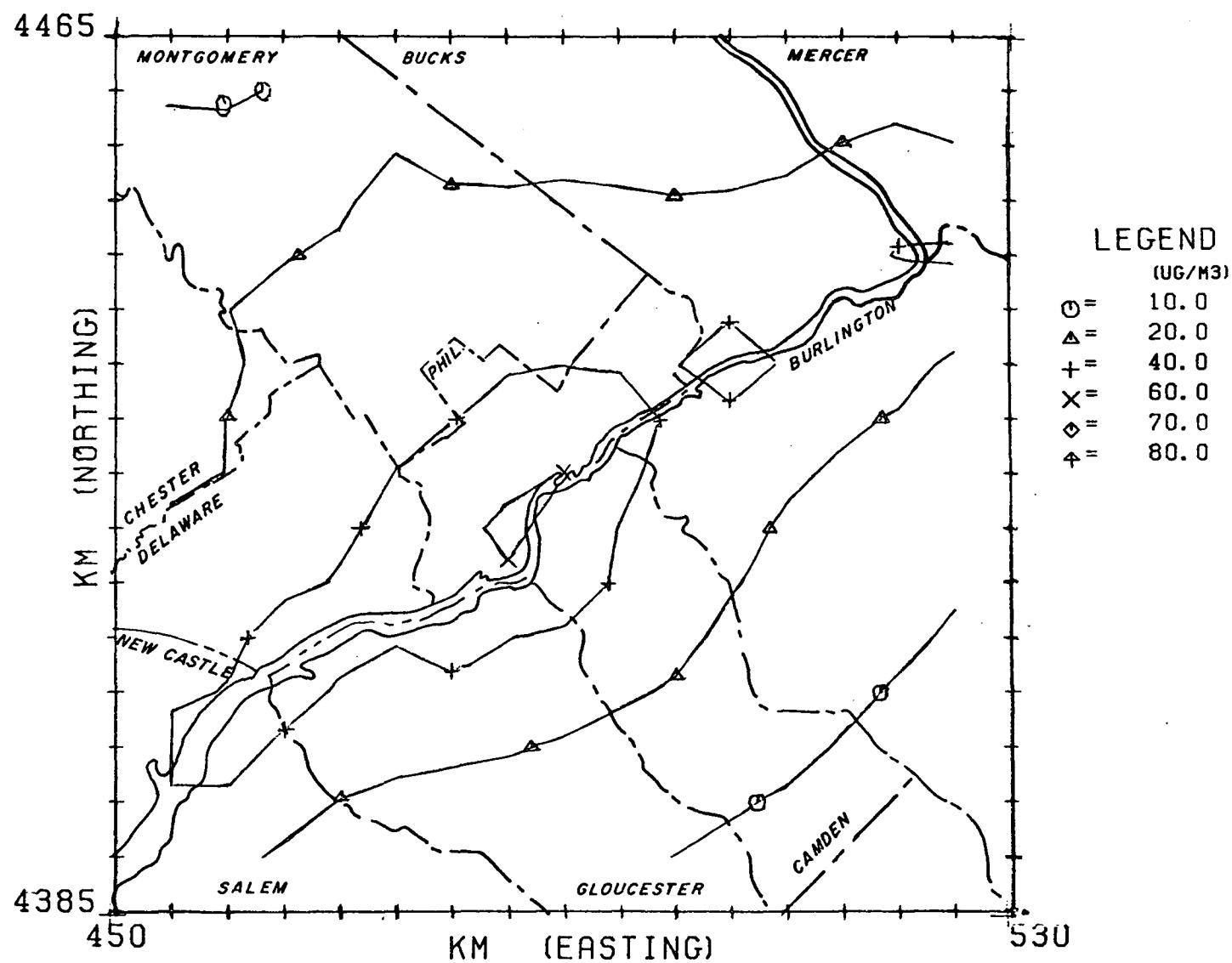


Figure 8. 1990 SO_2 air quality for strategy 1.

65

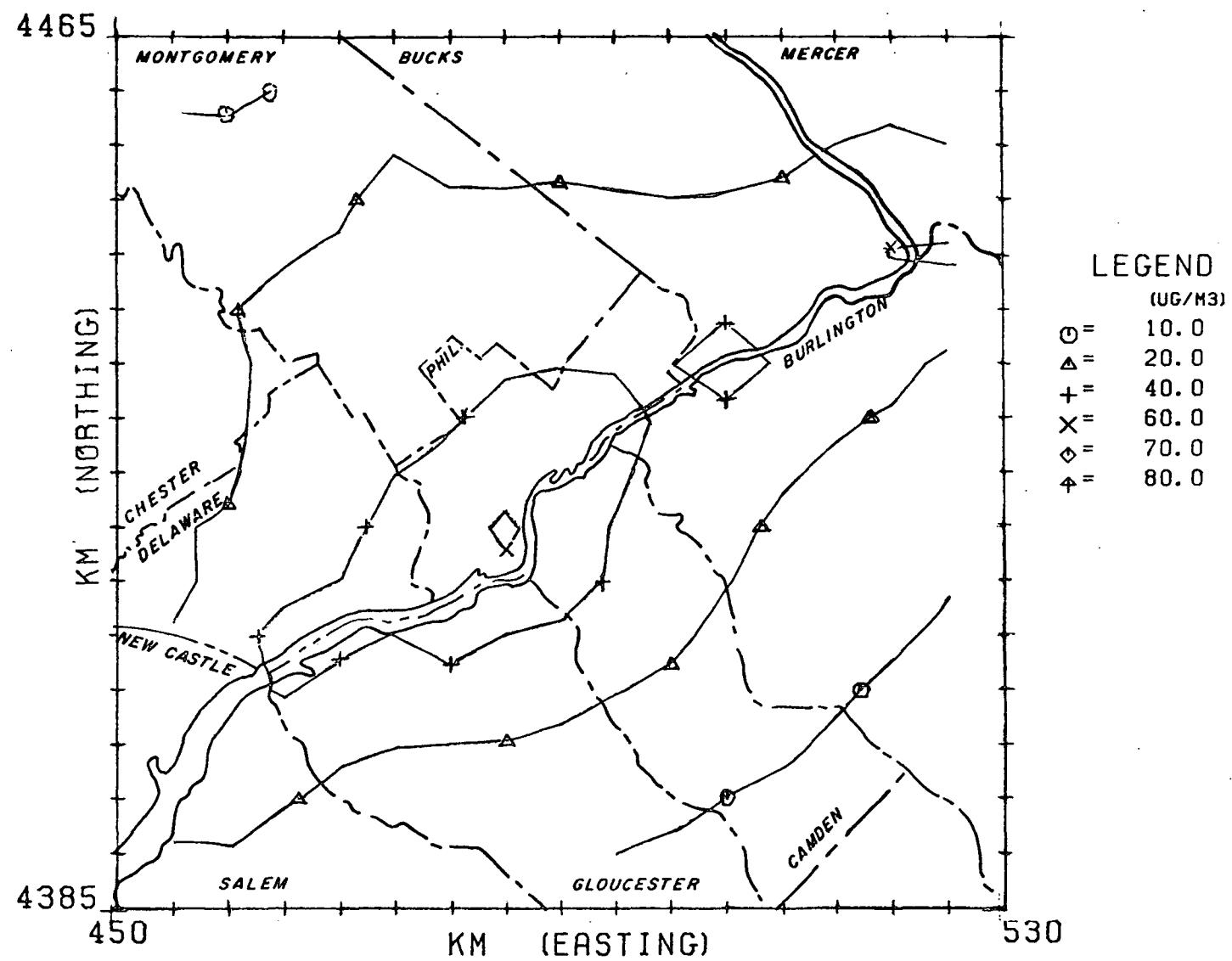


Figure 9. 1990 SO_2 air quality for strategy 2.

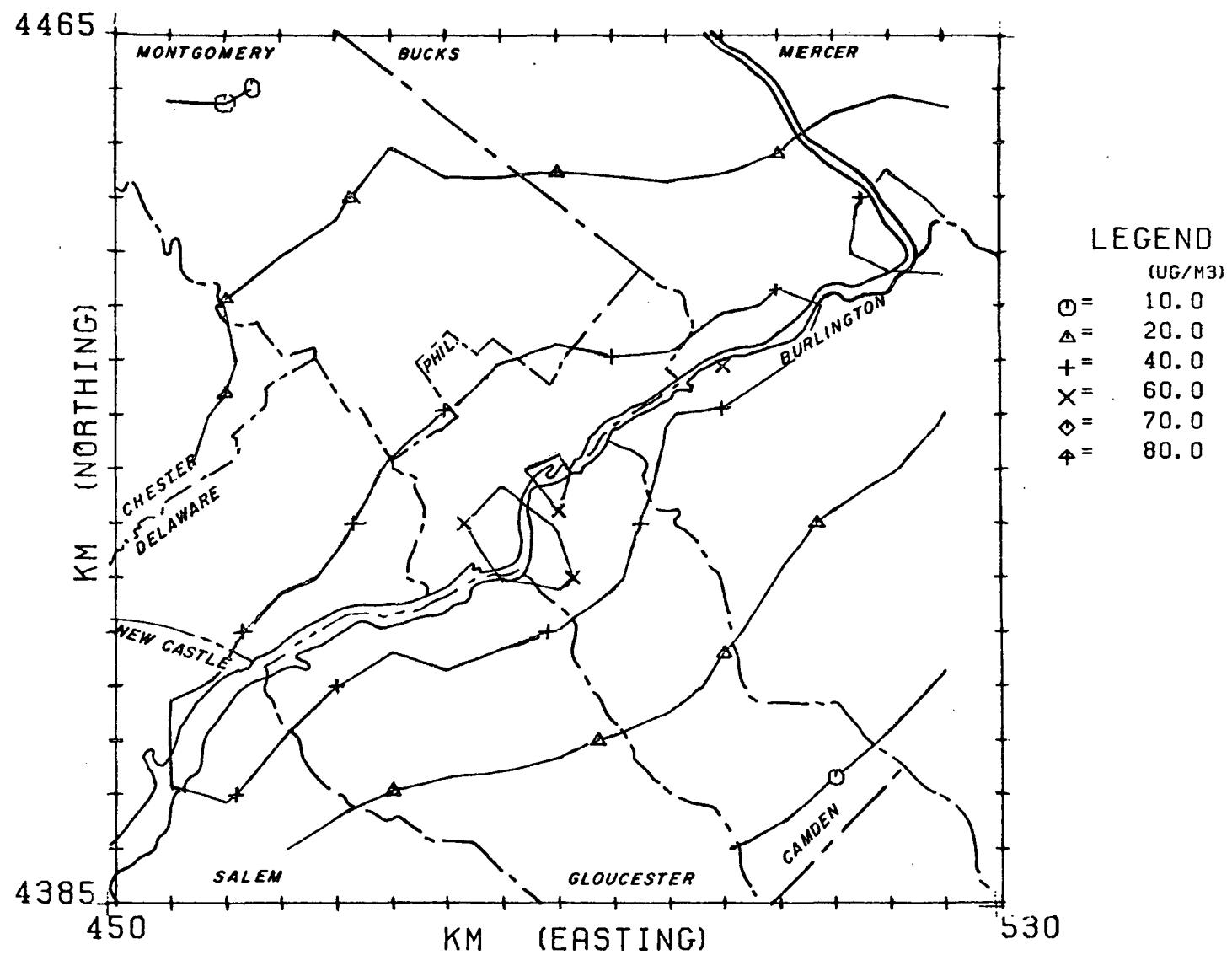


Figure 10. 1990 SO_2 air quality for strategy 3.

T9

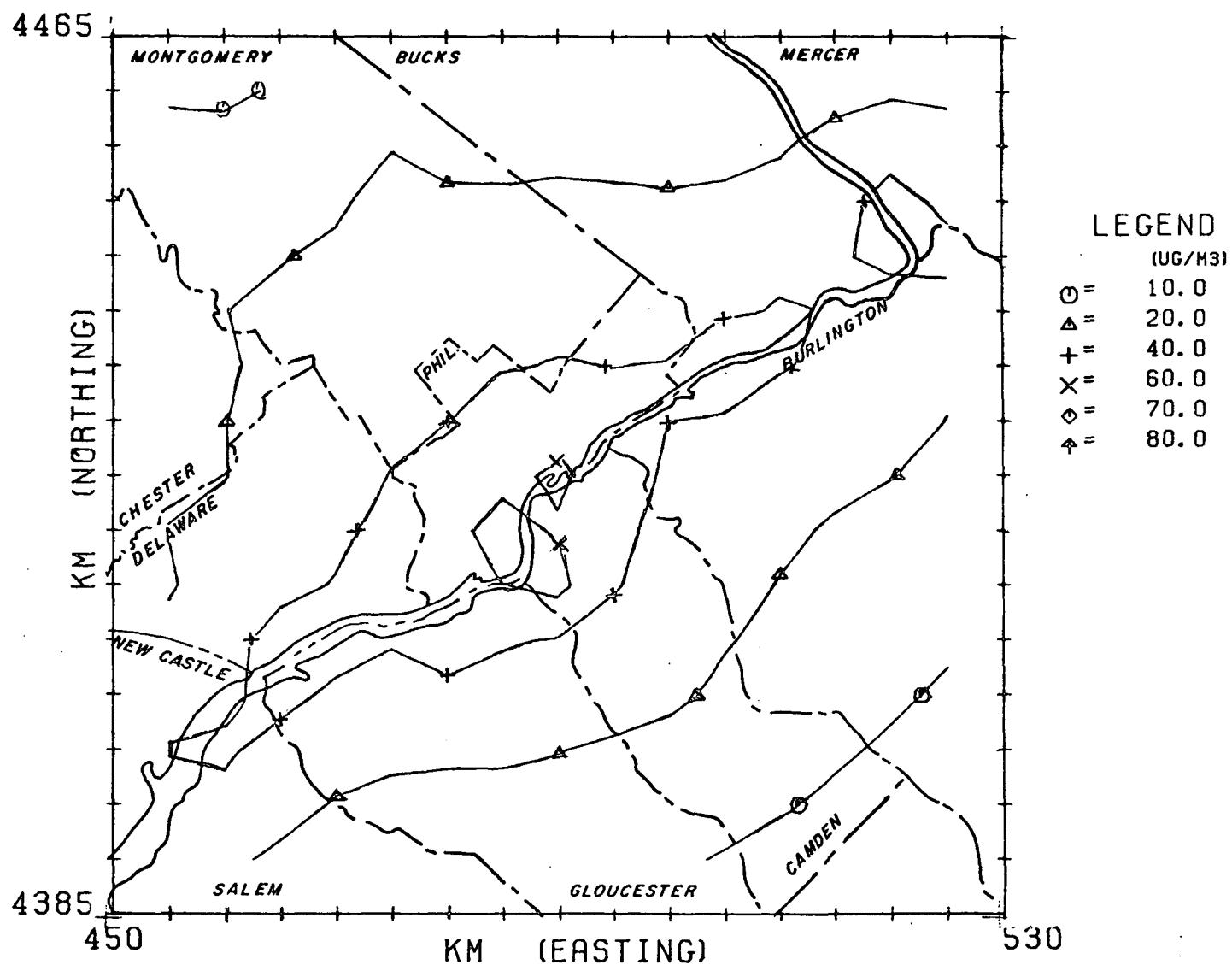


Figure 11. 1990 SO_2 air quality for strategy 4.

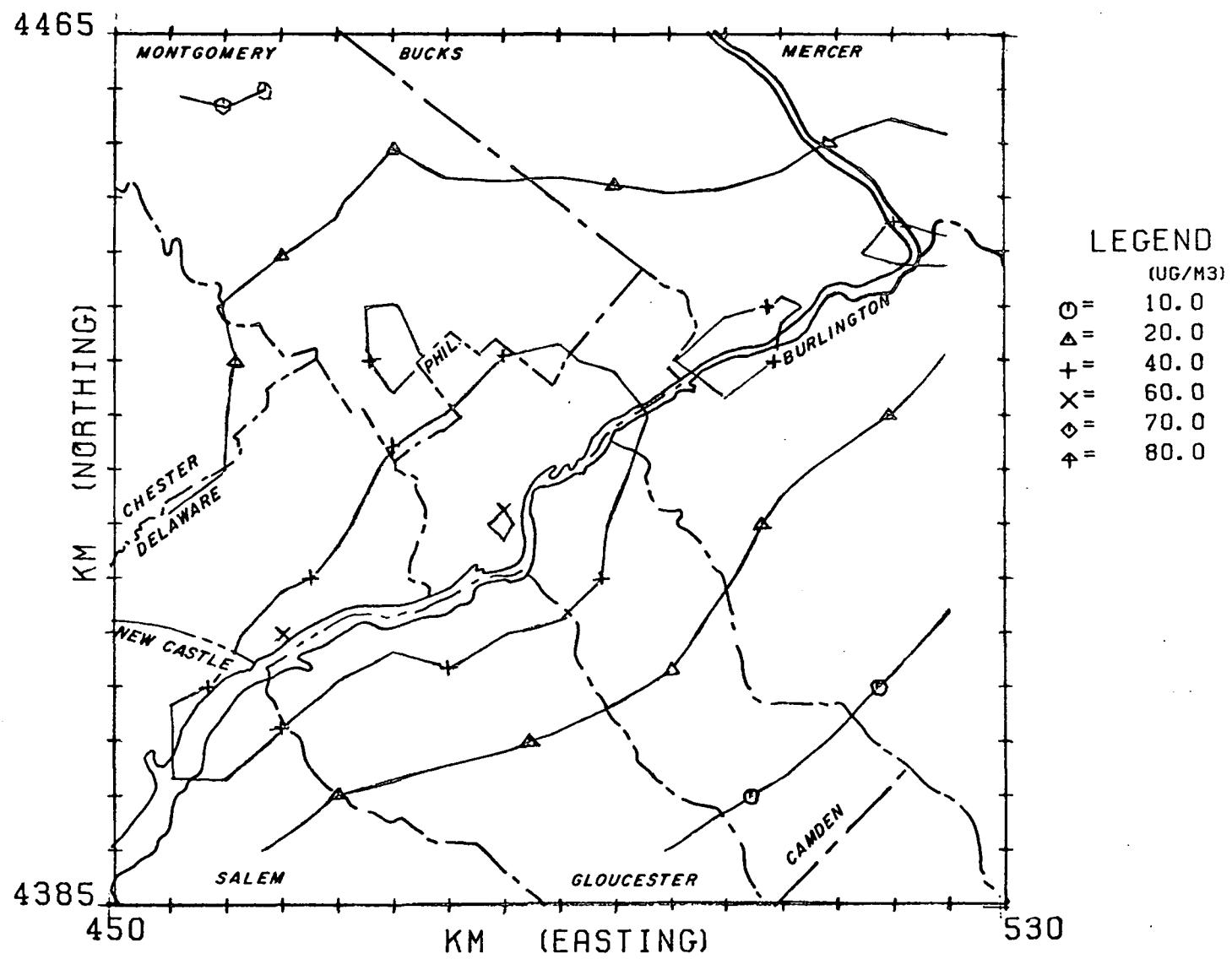


Figure 12. 1990 SO_2 air quality for strategy 5.

CG

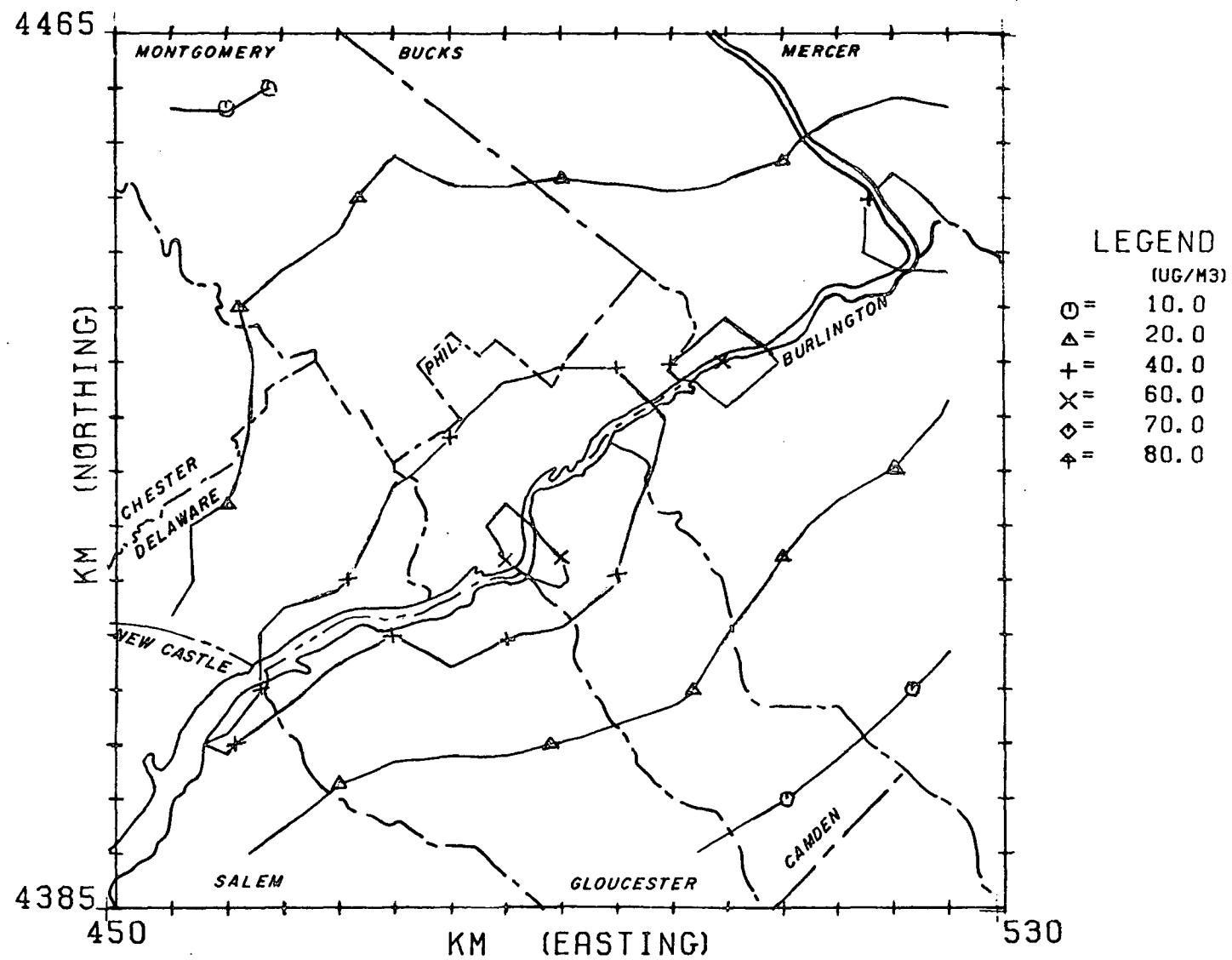


Figure 13. 1990 SO_2 air quality for strategy 6.

TABLE 25. STRATEGY: DER STRATEGY 1 - PA AT DER PROPOSED LEVELS;
N.J. AND DEL AT EXISTING REGULATIONS

Year	SO ₂ concentrations, $\mu\text{g}/\text{m}^3$			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	-	-	-	-
1978	42	68	58	30
1980	43	64	56	31
1990	54	64	58	36

TABLE 26. STRATEGY: DER STRATEGY 2 - PA AND DEL AT PROPOSED
LEVELS: N.J. AT EXISTING REGULATIONS

Year	SO ₂ concentrations, $\mu\text{g}/\text{m}^3$			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	-	-	-	-
1978	32	67	57	30
1980	32	63	56	30
1990	39	63	57	36

TABLE 27. STRATEGY: DER STRATEGY 3 - PA AND N.J. AT DER PROPOSED LEVELS: DEL AT EXISTING REGULATIONS

Year	SO ₂ concentrations, $\mu\text{g}/\text{m}^3$			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	-	-	-	-
1978	44	70	66	41
1980	45	66	64	42
1990	57	67	67	49

TABLE 28. STRATEGY: DER STRATEGY 4 - ALL JURISDICTIONS AT DER PROPOSED LEVELS

Year	SO ₂ concentrations, µg/m ³			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	30	75	77	45
1978	34	69	65	41
1980	34	66	64	42
1990	42	66	66	49

TABLE 29. STRATEGY: STRATEGY 5 - ALL JURISDICTIONS AT EXISTING SIP REGULATIONS

Year	SO ₂ concentrations, µg/m ³			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	36	71	65	33
1978	42	66	56	32
1980	43	58	53	32
1990	54	62	57	38

TABLE 30. STRATEGY: STRATEGY 6 - SIMILAR TO DER STRATEGY 4, EXCEPT ENTIRE INNER ZONE AT 0.2 PERCENT DISTILLATE

Year	SO ₂ concentrations, µg/m ³			
	Wilmington (455,4400)	Philadelphia (485,4420)	Gloucester City (490,4415)	Trenton (520,4450)
1974	27	73	74	44
1978	31	68	63	40
1980	31	64	62	41
1990	38	64	63	48

APPENDIX A
SAMPLE SOURCE/RECEPTOR ANALYSIS OUTPUT

COORDINATES FOR THIS SOURCE RECEPTOR FILE ARE 485.0 4920.4

POINT SOURCE CONTRIBUTION IS 27.79

AREA SOURCE CONTRIBUTION IS 37.77

01800004	0.02	01800007	0.05	01800007	0.05	01800007	0.06	01800007	0.14	01800008	0.25	01800008	0.02
01800010	0.03	01800010	0.08	01800010	0.10	01800010	0.08	01800013	0.02	01800016	0.11	01800019	0.01
01800019	0.02	01800019	0.02	01800020	0.05	01800021	0.07	01800023	0.02	01800031	0.02	01800032	0.10
01800053	0.04	01800075	0.04	08600003	0.02	06600009	0.01	06600009	0.05	06600012	0.02	06600014	0.04
07400001	0.04	07400001	0.04	07400002	0.02	07400002	0.03	07400003	0.02	07400006	0.09	07400008	0.03
07400008	0.09	07400008	0.04	07400008	0.04	07400008	0.13	07400008	0.10	07400026	0.02	07400037	0.06
07400038	0.09	07400046	0.09	07400046	0.17	07400046	0.03	07400046	0.03	17600002	0.02	17600004	0.08
17500034	0.29	17600034	0.13	17600034	0.01	17600034	0.01	17600034	0.01	17600004	0.01	17600005	0.03
17500036	0.06	17600036	0.03	17600036	0.04	17600036	0.06	17600036	0.04	17600036	0.02	17600036	0.50
17500039	0.02	17600039	0.19	17600021	0.02	17600023	0.02	17600032	0.04	17600032	0.02	29800001	0.12
49000001	0.01	49000001	0.01	49000001	0.01	49000002	0.03	49000005	0.14	49000005	0.03	49000006	0.01
12000023	0.12	12000046	0.02	12000046	0.02	12000046	0.01	12000046	0.01	12000046	0.02	12000046	0.08
16500003	0.12	16600003	0.06	16600004	0.01	16600014	0.01	16600014	0.01	16600021	0.01	16600031	0.02
16600033	0.02	23600010	1.31	23600019	1.35	23600011	0.02	23600011	0.02	23600012	0.01	23600012	0.01
23600013	0.02	23600015	0.01	23600017	0.07	23600019	0.02	23600019	0.01	23600020	0.02	23600020	0.03
23600021	0.02	23600021	0.01	23600021	0.03	23600021	0.07	23600021	0.07	23600023	0.02	23600023	0.02
23600023	0.04	23600023	0.04	23600025	0.01	23600025	0.01	23600025	0.02	23600028	0.03	23600028	0.03
23600031	0.07	23600031	0.02	23600031	0.02	23600031	0.01	23600031	0.01	23600031	0.01	23600031	0.01
23600031	0.02	23600031	0.01	23600031	0.01	23600031	0.01	23600031	0.01	23600031	0.02	23600031	0.01
23600031	0.01	23600031	0.01	23600031	0.01	23600031	0.01	23600031	0.02	23600031	0.02	23600031	0.01
23600031	0.01	23600031	0.01	23600031	0.02	23600031	0.01	23600032	0.02	23600032	0.02	23600038	0.03
23600038	0.03	23600038	0.03	23600038	0.04	23600039	0.05	23600039	0.03	23600042	0.25	23600042	0.02
23600042	0.03	23600046	0.02	23600050	0.01	23600050	0.01	60000032	0.01	60000041	0.01	60000041	0.01
60000041	0.01	60000046	0.01	60000050	0.01	60000050	0.01	60000050	0.02	60000050	0.01	60000050	0.04
60000054	0.04	60000050	0.04	60000050	0.53	60000050	0.03	60000050	0.03	60000050	0.07	60000050	0.01
60000053	0.01	60000052	0.02	60000062	0.02	60000064	0.01	60000073	0.01	60000074	0.02	60000077	0.01
60000089	0.01	60000081	0.01	60000081	0.02	60000088	0.01	60000097	0.01	71601501	0.09	71601501	0.19
71601501	0.29	71601501	0.25	71601501	0.26	71601501	0.06	71601501	0.05	71601501	0.10	71601501	0.45
71601501	0.38	71601501	0.38	71601501	0.85	71601501	0.43	71601501	0.14	71601501	0.10	71601501	0.15
71601521	0.30	71601511	0.31	71601511	0.45	71601511	0.10	71601511	0.07	71601511	0.02	71601511	0.10
71601511	0.40	71601511	0.40	71601511	0.40	71601511	0.46	71601511	0.45	71601511	0.05	71601511	0.06
71601517	0.06	71601521	0.03	71601521	0.02	71601521	0.02	71601531	0.02	71601531	0.02	71601551	0.02
71601551	0.02	71601562	0.08	71601562	0.02	71601562	0.04	71601566	0.01	71601566	0.05	71601576	0.09
71601577	0.04	71601577	0.02	71601577	0.03	71601577	0.03	71601577	0.03	71601577	0.03	71601577	0.03
71601577	0.01	71601577	0.01	71601581	0.05	71601581	0.14	71601581	0.03	71601581	0.02	71601589	0.06
71601589	0.23	71602001	0.01	71602011	0.04	71602028	0.01	71602028	0.03	71602036	0.04	71602044	0.01
71602054	0.01	71602059	0.02	71602059	0.01	71603062	0.01	71603216	0.05	71603410	0.03	71604901	0.01
71604901	0.01	71604901	0.01	71604901	0.01	71604901	0.01	71604901	0.01	71604901	0.01	71604901	0.01
71604901	0.01	71604901	0.01	71604901	0.08	71604901	0.08	71604904	0.12	71604904	0.12	71604904	0.08
71604904	0.09	71604904	0.07	71604904	0.01	71604921	0.07	71604921	0.08	71604921	0.21	71606603	0.02
71606407	0.03	71606407	0.04	71608017	0.03	71608027	0.01	71608043	0.03	71608101	0.02	71608301	0.03
71608346	0.08	71608414	0.02	71608495	0.02	71609118	0.03	71609402	0.05	71609403	0.02	71609404	0.04
71609406	0.01	71609405	0.01	71609409	0.02	71609502	0.02	71609504	0.04	71609506	0.02	71609506	0.02
71609501	0.04	71609702	0.05	71609702	0.05	71609702	0.05	71609702	0.05	71609702	0.03	71609702	0.03
71609702	0.02	71609702	0.08	71609702	0.16	71609702	0.04	71609706	0.05	71609711	0.04	1800430	0.01
1461630	0.01	1800460	0.02	1800720	0.01	1800734	0.01	1800742	0.01	1800743	0.03	1800744	0.02
1801742	0.02	1800451	0.03	1800453	0.01	1800454	0.02	1800463	0.03	1800490	0.02	18004951	0.01
1800953	0.01	1800061	0.03	6600701	0.02	6600703	0.01	6600720	0.01	6600802	0.01	6600804	0.01
6600912	0.01	7400414	0.02	7400502	0.02	7400503	0.07	7400504	0.03	7400511	0.02	7400513	0.02
7400654	0.10	7400611	0.10	7400612	0.06	7400613	0.18	7400614	0.07	7400621	0.03	7400622	0.02
7400624	0.02	7400633	0.01	7400702	0.36	7400711	0.27	7400712	0.15	7400713	0.07	7400714	0.09
7400722	0.02	7400723	0.03	7400801	0.02	17600512	0.01	17600514	0.01	17600710	0.02	17600723	0.01
17600741	0.02	17600742	0.01	17600743	0.02	17600744	0.01	17600801	0.07	17600802	0.02	17600804	0.03
17600812	0.04	17600813	0.13	17600814	0.02	49000600	0.02	12000114	0.01	12000123	0.01	12000233	0.01

12000303	0.02	12000304	0.01	12000400	0.01	12000410	0.02	12000420	0.01	12000620	0.01	16600220	0.01	16600330	0.02
16600342	-0.03	16600343	-0.01	16600344	-0.03	16600350	-0.03	16600411	-0.01	16600420	-0.02	16600430	-0.01	16600440	-0.01
16600530	0.72	16600540	0.04	16600550	0.08	16600600	0.01	16600730	0.01	16600740	0.02	23600114	0.06	23600113	0.06
23600114	0.02	23600212	0.01	23600213	0.01	23600214	0.02	23600221	0.05	23600222	0.13	23600223	0.02	23600224	0.04
23600231	0.03	23600232	0.02	23600233	-0.10	23600234	-0.11	23600240	-0.04	23600300	-0.02	23600310	-0.04	23600321	-0.03
23600322	0.05	23600323	0.05	23600324	0.02	23600331	0.09	23600332	0.26	23600333	0.09	23600334	0.22	23600341	0.26
23600343	0.36	23600344	0.39	23600400	0.03	23600405	0.02	23600411	0.01	23600412	0.01	23600414	0.03	23600421	0.07
23600422	-0.33	23600423	0.09	23600424	-0.16	23600431	-0.55	23600432	0.36	23600433	0.30	23600501	0.03	23600502	0.04
23600511	0.04	23600512	0.14	23600513	0.03	23600514	0.05	23600600	0.05	23600611	0.03	60000101	0.19	60000103	0.14
60000104	0.21	60000113	0.07	60000202	0.04	60000203	0.01	60000204	0.02	60000210	0.10	60000243	0.03	60000300	0.07
60000311	-0.01	60000312	-0.07	60000313	-0.03	60000314	-0.02	60000321	-0.03	60000322	-0.02	60000323	-0.01	60000324	-0.02
60000332	0.04	60000333	0.02	60000334	0.05	60000341	0.07	60000342	0.07	60000343	0.09	60000344	0.06	60000351	0.02
60000353	0.02	60000354	0.01	60000400	0.02	60000412	0.03	60000413	0.02	60000421	0.04	60000422	0.02	60000423	0.02
60000424	-0.03	60000431	0.02	60000441	0.01	60000442	0.03	60000443	0.03	60000451	0.06	60000452	0.07	60000453	0.03
60000454	0.05	60000461	0.02	60000463	0.02	60000510	0.01	60000540	0.03	60000550	0.03	60000562	0.02	60000564	0.02
60000571	0.02	60000610	0.02	60000630	0.02	60000641	0.02	60000643	0.02	60000702	0.01	60000711	0.01	60000740	0.01
60000751	-0.01	60000830	-0.02	71600103	-0.92	71600202	-0.05	71600211	-0.24	71600212	-0.29	71600213	-0.62	71600214	-0.47
71600221	0.52	71600223	2.04	71600304	0.40	71600311	1.37	71600312	1.48	71600313	0.76	71600314	0.76	71600321	9.26
71600323	1.03	71600324	0.56	71600402	0.15	71600411	0.10	71600412	0.40	71600414	0.14	71600421	0.79	71600422	0.51
71600423	0.40	71600424	0.20	71600431	-0.30	71600432	-0.08	71600433	-0.10	71600434	-0.13	71600501	0.12	71600502	0.09
71600503	0.03	71600504	0.08	71600511	-0.20	71600512	-0.17	71600513	-0.15	71600514	-0.04	71600521	0.07	71600522	0.05
71600524	0.03	71600531	0.07	71600532	0.03	71600533	0.01	71600534	0.02	71600543	0.02	71600622	0.01	71600631	0.01
71600641	0.01														

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16. ABSTRACT The Metropolitan Philadelphia Interstate Air Quality Control Region is currently not attaining the primary air quality standards for sulfur dioxide, total suspended particulates, photochemical oxidants, and carbon monoxide.		
<p>Under a previous contract between the EPA and GCA (68-02-1376 Task Order No. 24) several strategies proposed by the air quality control agencies to attain and maintain the National Ambient Air Quality Standards for sulfur dioxide were evaluated using air quality dispersion modeling. The final report entitled "Emission Inventory and Sulfur Dioxide Alternatives for the Metropolitan Philadelphia Region" (EPA 903/9-77-030) was published in August 1977.</p> <p>This present report discusses the procedures followed in upgrading the data base for the strategy evaluations, and presents the results of modeling six additional strategies.</p>		
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