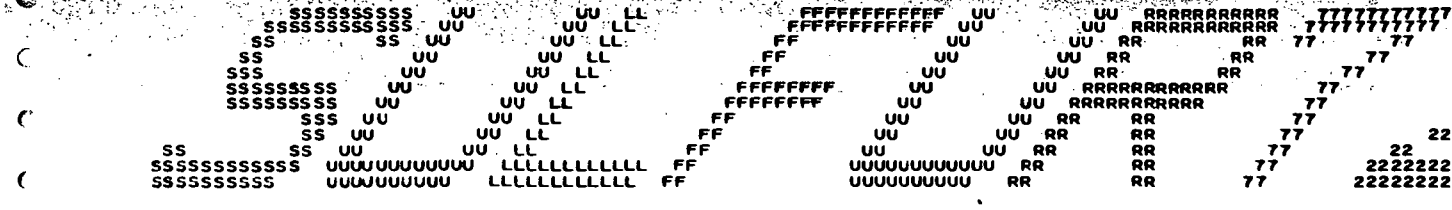

```
                  SSSSSSSSSS   UU        UU  LL            FFFFFFFFFFFF  UU       UU  RRRRRRRRRR    77777777777   2222222222
                SSSSSSSSSSSS  UU        UU  LL            FFFFFFFFFFFF  UU       UU  RRRRRRRRRRRR  77777777777   222222222222
               SS        SS  UU        UU  LL            FF            UU       UU  RR        RR  77      77    22        22
              SS            UU        UU  LL            FF            UU       UU  RR        RR         77               22
             SSS           UU        UU  LL            FF            UU       UU  RR        RR        77                22
             SSSSSSSSSS   UU        UU  LL            FFFFFFFF      UU       UU  RRRRRRRRRRRR       77                22
             SSSSSSSSSS  UU        UU  LL            FFFFFFFF      UU       UU  RRRRRRRRRR         77               22
                   SSS  UU        UU  LL            FF            UU       UU  RR    RR           77             22
                   SS  UU        UU  LL            FF            UU       UU  RR     RR          77          22
        SS        SS  UU        UU  LL            FF            UU       UU  RR      RR         77        22
       SSSSSSSSSSSS  UUUUUUUUUUU   LLLLLLLLLLLL  FF            UUUUUUUUUUU  RR       RR        77       222222222222
       SSSSSSSSSS    UUUUUUUUUU   LLLLLLLLLLLL  FF             UUUUUUUUUU  RR        RR       77       222222222222


                    JJJJJJJJJJ   8888888888    2222222222    9999999999     00000000                  AAAAAAAAAA
                    JJJJJJJJJJ  888888888888  222222222222  999999999999   0000000000                AAAAAAAAAAAA
                        JJ      88        88  22        22  99        99  00      0000               AA        AA
                        JJ      88        88            22  99        99  00     00 00               AA        AA
                        JJ       88      88             22  99        99  00    00  00               AA        AA
                        JJ        88888888             22   999999999999  00   00   00               AAAAAAAAAAAA
                        JJ        88888888           22     999999999999  00  00    00               AAAAAAAAAAAA
                        JJ       88      88        22                 99  00 00     00               AA        AA
                  JJ    JJ      88        88    22                    99  0000      00               AA        AA
                  JJ    JJ      88        88  22            99        99  000       00               AA        AA
                  JJJJJJJ       888888888888  222222222222  999999999999   0000000000                AA        AA
                   JJJJJJ        8888888888   222222222222   9999999999     00000000                 AA        AA

*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOR 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8290 SULFUR72 0001 0001 NER      OXY-SULFUR          80001046.002 12.24.17 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*

                         ********************************************************************************
                         *                                                                              *
                         *         N.E.R.D.C. NEWS:   1/20/83  12:25:34                                 *
                         *                                                                              *
                         *         THE NERDC HAS MADE TWO ADDITIONAL USER PACKS. USER80 AND             *
                         *         USER81. AVAILABLE TO USERS.  THESE PACKS ARE 3380 DEVICES            *
                         *         AND REQUIRE DIFFERENT BLOCKSIZES THAN WERE USED FOR DATA             *
                         *         SETS ON THE 3350 USER PACKS.  ON JANUARY 30. THESE 3380              *
                         *         PACKS WILL BECOME THE DEFAULT DEVICES FOR NEW DATA SETS.             *
                         *         ALL USERS SHOULD READ MEMO 83020.001 FOR DETAILS ON 3380             *
                         *         DISK DRIVES.                                        (MCD)            *
                         *                                                                              *
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CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION) WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
NUMBER OF INPUT SOURCES	NSOURC = 5
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 36
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 18
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E 07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 =0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 =0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.0
SURFACE STATION NO.	ISS = 93845
YEAR OF SURFACE DATA	ISY = 72
UPPER AIR STATION NO.	IUS = 13861
YEAR OF UPPER AIR DATA	IUY = 72
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 1781 WORDS

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54. 3.09. 5.14. 8.23. 10.80.

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00
B	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00
C	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00
D	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00
E	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00
F	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.0	.0	.0	.0	.0	.0
B	.0	.0	.0	.0	.0	.0
C	.0	.0	.0	.0	.0	.0
D	.0	.0	.0	.0	.0	.0
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

200.0.

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***

(DEGREES)

10.0.	20.0.	30.0.	40.0.	50.0.	60.0.	70.0.	80.0.	90.0.	100.0.
110.0.	120.0.	130.0.	140.0.	150.0.	160.0.	170.0.	180.0.	190.0.	200.0.
210.0.	220.0.	230.0.	240.0.	250.0.	260.0.	270.0.	280.0.	290.0.	300.0.
310.0.	320.0.	330.0.	340.0.	350.0.	360.0.				

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-540.0,	550.0),	(	-530.0,	560.0),	(	-520.0,	570.0),	(	-1970.0,	-740.0),	(	-1900.0,	-820.0),
(	-1840.0,	-900.0),	(	-1770.0,	-970.0),	(	-1700.0,	-1040.0),	(	-1640.0,	-1120.0),	(	-1570.0,	-1200.0),
(	-1500.0,	-1270.0),	(	-1440.0,	-1350.0),	(	-1370.0,	-1420.0),	(	-1300.0,	-1500.0),	(	-1240.0,	-1570.0),
(	-1170.0,	-1640.0),	(	-1100.0,	-1720.0),	(	-1040.0,	-1800.0),	(						

771

2104

2069

2018

1973

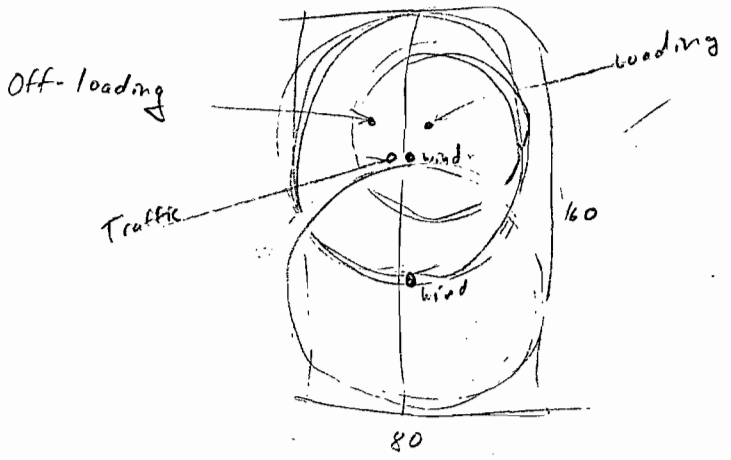
1993

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)	
wind — 1	2	0	5	0.450000E-05	-30.0	0.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0	.23
2	2	0	5	0.450000E-05	-30.0	-80.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0	.23
Loading — 3	2	0	5	0.630000E-04	-20.0	20.0	0.0	6.00	0.0	50.00	0.0	0.0	0.0	0.0	1.25
Traffic — 4	2	0	5	0.280000E-03	-40.0	0.0	0.0	4.00	0.0	20.00	0.0	0.0	0.0	0.0	
Off-loading — 5	0	0	5	0.500000E-01	-50.0	20.0	0.0	5.00	314.00	1.00	1.00	0.0	0.0	0.0	.89

0.4



1 acre = 4047 m^2

12,788 m^2

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 12.33749 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	9.69829
350.0 /	7.97418
340.0 /	6.45887
330.0 /	6.34054
320.0 /	7.28794
310.0 /	8.16378
300.0 /	7.45317
290.0 /	7.09445
280.0 /	7.08971
270.0 /	7.10081
260.0 /	7.58005
250.0 /	7.57121
240.0 /	6.46468
230.0 /	6.20345
220.0 /	5.66341
210.0 /	4.66883
200.0 /	4.80226
190.0 /	5.17906
180.0 /	4.73112
170.0 /	4.23971
160.0 /	3.66296
150.0 /	3.41966
140.0 /	3.48814
130.0 /	3.90397
120.0 /	4.26185
110.0 /	4.42324
100.0 /	4.10451
90.0 /	3.68238
80.0 /	3.76352
70.0 /	4.31322
60.0 /	5.86475
50.0 /	8.05290
40.0 /	10.41114
30.0 /	12.33749
20.0 /	10.40465
10.0 /	9.17213

N-DAY
366 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	- X -	- Y -	CON.	- X -	- Y -	CON.
-540.0	550.0	0.44417	-530.0	560.0	0.41454	-520.0	570.0	0.38702
-1970.0	-740.0	0.08058	-1900.0	-820.0	0.07668	-1840.0	-900.0	0.07671
-1770.0	-970.0	0.08387	-1700.0	-1040.0	0.08941	-1640.0	-1120.0	0.07816
-1570.0	-1200.0	0.06745	-1500.0	-1270.0	0.07448	-1440.0	-1350.0	0.07868
-1370.0	-1420.0	0.07142	-1300.0	-1500.0	0.07013	-1240.0	-1570.0	0.07132
-1170.0	-1640.0	0.06917	-1100.0	-1720.0	0.06596	-1040.0	-1800.0	0.06382

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1972 ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 373.84790 AND OCCURRED AT (200.0, 20.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	322.26050	(261, 8)
350.0 /	0.0	(0, 0)	233.25567	(27, 7)
340.0 /	0.0	(0, 0)	222.12146	(94, 2)
330.0 /	0.0	(0, 0)	213.40143	(23, 8)
320.0 /	0.0	(0, 0)	220.21506	(116, 2)
310.0 /	0.0	(0, 0)	252.66380	(241, 1)
300.0 /	0.0	(0, 0)	262.98193	(190, 1)
290.0 /	0.0	(0, 0)	251.50795	(270, 8)
280.0 /	0.0	(0, 0)	272.22388	(156, 1)
270.0 /	0.0	(0, 0)	285.23955	(226, 2)
260.0 /	0.0	(0, 0)	327.80127	(225, 1)
250.0 /	0.0	(0, 0)	282.28579	(123, 1)
240.0 /	0.0	(0, 0)	209.34535	(9, 3)
230.0 /	0.0	(0, 0)	280.72559	(251, 8)
220.0 /	0.0	(0, 0)	311.68970	(353, 8)
210.0 /	0.0	(0, 0)	211.57436	(337, 3)
200.0 /	0.0	(0, 0)	252.19838	(337, 8)
190.0 /	0.0	(0, 0)	231.99242	(320, 8)
180.0 /	0.0	(0, 0)	160.56004	(92, 2)
170.0 /	0.0	(0, 0)	159.42035	(195, 1)
160.0 /	0.0	(0, 0)	150.36555	(137, 8)
150.0 /	0.0	(0, 0)	147.89053	(194, 8)
140.0 /	0.0	(0, 0)	158.79620	(314, 2)
130.0 /	0.0	(0, 0)	156.19461	(186, 2)
120.0 /	0.0	(0, 0)	163.78278	(303, 8)
110.0 /	0.0	(0, 0)	153.52318	(336, 7)
100.0 /	0.0	(0, 0)	152.41555	(289, 2)
90.0 /	0.0	(0, 0)	183.03156	(231, 8)
80.0 /	0.0	(0, 0)	245.49315	(363, 7)
70.0 /	0.0	(0, 0)	222.44862	(283, 1)
60.0 /	0.0	(0, 0)	267.81543	(52, 2)
50.0 /	0.0	(0, 0)	316.14526	(263, 1)
40.0 /	0.0	(0, 0)	323.17188	(53, 1)
30.0 /	0.0	(0, 0)	348.04761	(146, 2)
20.0 /	0.0	(0, 0)	373.84790	(60, 1)
10.0 /	0.0	(0, 0)	268.60010	(28, 8)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1972 ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 347.07861 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 3.0		200.0	
360.0 /	0.0	(3, 0)	289.76001	(184, 2)
350.0 /	0.0	(0, 0)	230.95615	(287, 1)
340.0 /	0.0	(0, 0)	204.23891	(23, 8)
330.0 /	0.0	(0, 0)	207.72662	(355, 1)
320.0 /	0.0	(0, 0)	187.24762	(247, 1)
310.0 /	0.0	(0, 0)	241.63365	(247, 1)
300.0 /	0.0	(0, 0)	211.68675	(72, 2)
290.0 /	0.0	(0, 0)	249.38524	(155, 2)
280.0 /	0.0	(0, 0)	253.69952	(257, 1)
270.0 /	0.0	(0, 0)	261.62036	(290, 2)
260.0 /	0.0	(0, 0)	234.88353	(19, 7)
250.0 /	0.0	(0, 0)	272.77466	(236, 2)
240.0 /	0.0	(0, 0)	185.26170	(339, 2)
230.0 /	0.0	(0, 0)	262.87402	(252, 1)
220.0 /	0.0	(0, 0)	280.13452	(204, 8)
210.0 /	0.0	(0, 0)	210.25844	(326, 7)
200.0 /	0.0	(0, 0)	251.22053	(70, 1)
190.0 /	0.0	(0, 0)	230.20782	(321, 1)
180.0 /	0.0	(0, 0)	153.23338	(320, 7)
170.0 /	0.0	(0, 0)	135.03546	(303, 2)
160.0 /	0.0	(0, 0)	145.46239	(303, 1)
150.0 /	0.0	(0, 0)	137.76724	(218, 2)
140.0 /	0.0	(0, 0)	151.12726	(20, 7)
130.0 /	0.0	(0, 0)	151.59691	(71, 1)
120.0 /	0.0	(0, 0)	172.72572	(303, 7)
110.0 /	0.0	(0, 0)	153.27575	(289, 2)
100.0 /	0.0	(0, 0)	151.70238	(336, 8)
90.0 /	0.0	(0, 0)	147.00113	(6, 8)
80.0 /	0.0	(0, 0)	228.22630	(363, 8)
70.0 /	0.0	(0, 0)	208.41412	(283, 2)
60.0 /	0.0	(0, 0)	252.86115	(261, 1)
50.0 /	0.0	(0, 0)	308.25503	(216, 2)
40.0 /	0.0	(0, 0)	304.60547	(206, 1)
30.0 /	0.0	(0, 0)	347.07861	(112, 2)
20.0 /	0.0	(0, 0)	322.30591	(188, 8)
10.0 /	0.0	(0, 0)	260.68536	(214, 2)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1972 ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	373.84790	1	60	200.0	20.0	26	285.76001	2	184	200.0	360.0
2	348.04761	2	146	200.0	30.0	27	284.63623	2	141	200.0	30.0
3	347.07861	2	112	200.0	30.0	28	284.23999	2	226	200.0	270.0
4	327.80127	1	225	200.0	260.0	29	282.34766	2	253	200.0	40.0
5	323.94214	8	348	200.0	30.0	30	282.28979	1	123	200.0	250.0
6	323.17188	1	53	200.0	40.0	31	281.05322	1	215	200.0	360.0
7	322.30591	8	188	200.0	20.0	32	280.72559	8	251	200.0	230.0
8	322.26050	8	261	200.0	360.0	33	280.13452	8	204	200.0	220.0
9	322.12866	8	219	200.0	20.0	34	279.84790	2	205	200.0	220.0
10	319.97485	1	54	200.0	20.0	35	277.94531	2	54	200.0	20.0
11	318.28540	1	141	200.0	30.0	36	273.79492	2	273	200.0	30.0
12	318.14526	1	263	200.0	50.0	37	272.77466	2	236	200.0	250.0
13	311.68970	8	353	200.0	220.0	38	272.22388	1	156	200.0	280.0
14	309.23853	1	288	200.0	30.0	39	269.47778	2	138	200.0	360.0
15	308.25903	2	216	200.0	50.0	40	269.40771	1	196	200.0	30.0
16	306.75024	1	349	200.0	30.0	41	267.81543	2	52	200.0	60.0
17	304.60547	1	206	200.0	40.0	42	265.95508	2	349	200.0	30.0
18	303.94385	2	78	200.0	40.0	43	265.40967	2	73	200.0	360.0
19	302.73975	7	269	200.0	20.0	44	265.00122	8	252	200.0	40.0
20	301.86304	1	253	200.0	40.0	45	262.98193	1	190	200.0	300.0
21	300.71753	1	154	200.0	50.0	46	262.87402	1	252	200.0	230.0
22	298.69580	1	249	200.0	40.0	47	261.62036	2	290	200.0	270.0
23	297.87646	2	288	200.0	30.0	48	260.74854	8	60	200.0	40.0
24	296.00439	2	238	200.0	30.0	49	260.02026	8	59	200.0	30.0
25	294.07983	2	60	200.0	20.0	50	258.60010	8	28	200.0	10.0

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 112.69675 AND OCCURRED AT (200.0, 20.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	87.50275 (73, 1)
350.0 /	87.17874 (240, 1)
340.0 /	74.47327 (20, 1)
330.0 /	82.31163 (20, 1)
320.0 /	73.51027 (246, 1)
310.0 /	108.07104 (72, 1)
300.0 /	88.83139 (271, 1)
290.0 /	81.97972 (271, 1)
280.0 /	73.94508 (257, 1)
270.0 /	75.65941 (226, 1)
260.0 /	58.20593 (19, 1)
250.0 /	61.07394 (121, 1)
240.0 /	51.78819 (234, 1)
230.0 /	87.16837 (252, 1)
220.0 /	83.81281 (205, 1)
210.0 /	41.55623 (353, 1)
200.0 /	82.16661 (70, 1)
190.0 /	61.07541 (320, 1)
180.0 /	55.58797 (320, 1)
170.0 /	39.96114 (116, 1)
160.0 /	40.99458 (303, 1)
150.0 /	35.76155 (194, 1)
140.0 /	43.10487 (314, 1)
130.0 /	47.69542 (316, 1)
120.0 /	55.08479 (303, 1)
110.0 /	58.29070 (336, 1)
100.0 /	50.53490 (336, 1)
90.0 /	43.93913 (363, 1)
80.0 /	95.96460 (363, 1)
70.0 /	71.43736 (363, 1)
60.0 /	73.74107 (52, 1)
50.0 /	72.88260 (216, 1)
40.0 /	100.18822 (53, 1)
30.0 /	112.02197 (112, 1)
20.0 /	112.69675 (54, 1)
10.0 /	85.62497 (214, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	6.63614	(246. 1)	-530.0	560.0	5.13872	(266. 1)
-520.0	570.0	5.72865	(61. 1)	-1970.0	-740.0	1.18150	(19. 1)
-1900.0	-820.0	1.04845	(19. 1)	-1840.0	-900.0	0.68805	(123. 1)
-1770.0	-970.0	0.96210	(121. 1)	-1700.0	-1040.0	1.19122	(121. 1)
-1640.0	-1120.0	1.10191	(9. 1)	-1570.0	-1200.0	0.89940	(329. 1)
-1500.0	-1270.0	0.87796	(329. 1)	-1440.0	-1350.0	1.06044	(251. 1)
-1370.0	-1420.0	1.27388	(251. 1)	-1300.0	-1500.0	1.45569	(252. 1)
-1240.0	-1570.0	1.81941	(252. 1)	-1170.0	-1640.0	1.04228	(205. 1)
-1100.0	-1720.0	1.14919	(353. 1)	-1040.0	-1800.0	1.56477	(205. 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 106.78299 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	72.42844 (261, 1)
350.0 /	74.33894 (287, 1)
340.0 /	66.64377 (240, 1)
330.0 /	55.38478 (118, 1)
320.0 /	68.00896 (72, 1)
310.0 /	91.07188 (272, 1)
300.0 /	69.09473 (72, 1)
290.0 /	77.87038 (155, 1)
280.0 /	71.72426 (226, 1)
270.0 /	56.64690 (290, 1)
260.0 /	49.54208 (121, 1)
250.0 /	49.41180 (311, 1)
240.0 /	49.78320 (329, 1)
230.0 /	76.20158 (251, 1)
220.0 /	71.05093 (353, 1)
210.0 /	40.46494 (326, 1)
200.0 /	66.96097 (337, 1)
190.0 /	54.53448 (70, 1)
180.0 /	41.54411 (116, 1)
170.0 /	34.83568 (92, 1)
160.0 /	38.54166 (194, 1)
150.0 /	34.82903 (299, 1)
140.0 /	41.01845 (299, 1)
130.0 /	43.87941 (327, 1)
120.0 /	53.08443 (282, 1)
110.0 /	56.20898 (217, 1)
100.0 /	44.12511 (217, 1)
90.0 /	42.42172 (231, 1)
80.0 /	70.67619 (364, 1)
70.0 /	54.78862 (283, 1)
60.0 /	60.95937 (261, 1)
50.0 /	55.52742 (154, 1)
40.0 /	91.38135 (253, 1)
30.0 /	106.78299 (288, 1)
20.0 /	104.33009 (60, 1)
10.0 /	80.96162 (95, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	5.96046	(241, 1)	-530.0	560.0	5.05843	(72, 1)
-520.0	570.0	5.12369	(272, 1)	-1970.0	-740.0	0.83100	(66, 1)
-1900.0	-820.0	0.56446	(244, 1)	-1840.0	-900.0	0.66649	(311, 1)
-1770.0	-970.0	0.92256	(123, 1)	-1700.0	-1040.0	0.93863	(268, 1)
-1640.0	-1120.0	0.67088	(267, 1)	-1570.0	-1200.0	0.84738	(339, 1)
-1500.0	-1270.0	0.72125	(80, 1)	-1440.0	-1350.0	0.74538	(234, 1)
-1370.0	-1420.0	1.12648	(286, 1)	-1300.0	-1500.0	1.17630	(251, 1)
-1240.0	-1570.0	0.72737	(286, 1)	-1170.0	-1640.0	0.88476	(353, 1)
-1100.0	-1720.0	1.04269	(205, 1)	-1040.0	-1800.0	1.13175	(353, 1)

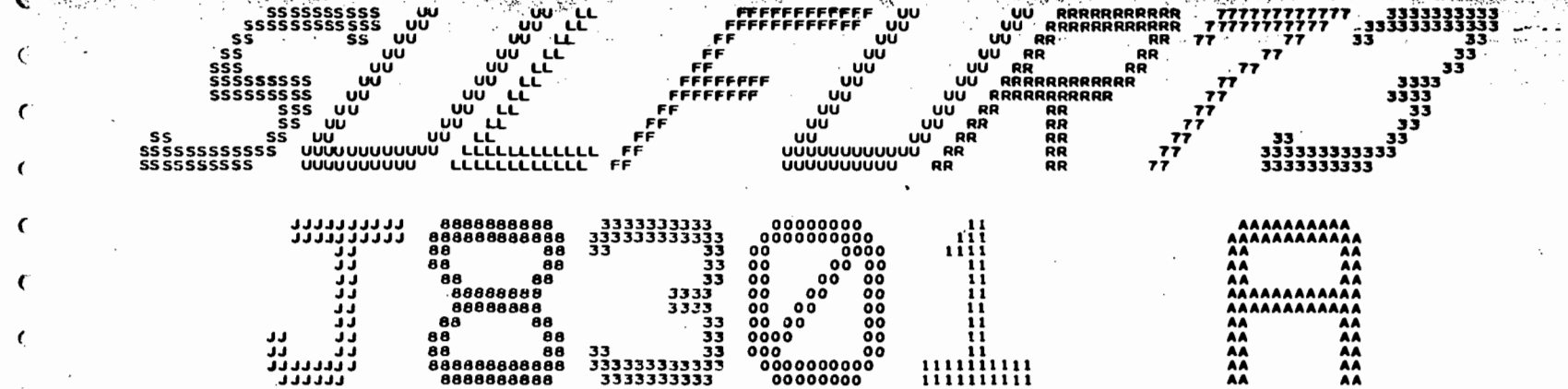
MAX 50
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1972 ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	112.69675	1	54	200.0	20.0	26	77.87038	1	155	200.0	290.0
2	112.02197	1	112	200.0	30.0	27	76.93785	1	246	200.0	310.0
3	108.07104	1	72	200.0	310.0	28	76.66600	1	141	200.0	30.0
4	106.78299	1	288	200.0	30.0	29	76.20158	1	251	200.0	230.0
5	104.33009	1	60	200.0	20.0	30	75.65941	1	226	200.0	270.0
6	100.18822	1	53	200.0	40.0	31	75.62752	1	238	200.0	30.0
7	98.54590	1	146	200.0	30.0	32	74.99738	1	349	200.0	30.0
8	96.79401	1	292	200.0	20.0	33	74.47327	1	20	200.0	340.0
9	95.96460	1	363	200.0	80.0	34	74.47127	1	271	200.0	310.0
10	95.77188	1	292	200.0	30.0	35	74.33894	1	287	200.0	350.0
11	94.44159	1	273	200.0	30.0	36	73.95064	1	78	200.0	40.0
12	91.72357	1	54	200.0	30.0	37	73.94508	1	257	200.0	280.0
13	91.38135	1	253	200.0	40.0	38	73.91399	1	286	200.0	230.0
14	91.07188	1	272	200.0	310.0	39	73.74107	1	52	200.0	60.0
15	88.83139	1	271	200.0	300.0	40	73.54378	1	73	200.0	10.0
16	87.50275	1	73	200.0	360.0	41	73.51027	1	246	200.0	320.0
17	87.17874	1	240	200.0	350.0	42	72.88260	1	216	200.0	50.0
18	87.16837	1	252	200.0	230.0	43	72.66455	1	56	200.0	20.0
19	85.62497	1	214	200.0	10.0	44	72.42844	1	261	200.0	360.0
20	83.81281	1	205	200.0	220.0	45	71.72426	1	226	200.0	280.0
21	82.31183	1	20	200.0	330.0	46	71.43736	1	363	200.0	70.0
22	82.16661	1	70	200.0	200.0	47	71.43053	1	240	200.0	360.0
23	81.97972	1	271	200.0	290.0	48	71.06203	1	184	200.0	360.0
24	80.96162	1	95	200.0	10.0	49	71.05093	1	353	200.0	220.0
25	79.10135	1	206	200.0	40.0	50	70.74767	1	60	200.0	30.0



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                SSSSSSSSSSSS  UU        UU  LL            FFFFFFFFFFFF  UU        UU  RRRRRRRRRRRR  77777777777   333333333333
               SS        SS  UU        UU  LL            FF            UU        UU  RR        RR  77      77    33        33
              SS            UU        UU  LL            FF            UU        UU  RR        RR         77               33
             SSS           UU        UU  LL            FF            UU        UU  RR        RR        77                33
             SSSSSSSSS    UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRRR       77              3333
             SSSSSSSSS   UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRR        77              3333
                   SSS  UU        UU  LL            FF            UU        UU  RR    RR           77                 33
                   SS  UU        UU  LL            FF            UU        UU  RR     RR          77                 33
        SS        SS  UU        UU  LL            FF            UU        UU  RR      RR         77       33        33
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       SSSSSSSSSS    UUUUUUUUUU   LLLLLLLLLLLL  FF             UUUUUUUUUU   RR        RR       77        3333333333

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                        JJ       88      88             33  00    00  00       11                     AA        AA
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                   JJJJJJ        8888888888    3333333333     00000000     1111111111                 AA        AA

*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8301 SULFUR73 0001 0001 NER      OXY-SULFUR          80001046.002  12.20.36 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*

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                         *                                                                               *
                         *         N.E.R.D.C. NEWS:   1/20/83  12:25:34                                  *
                         *                                                                               *
                         *         THE NERDC HAS MADE TWO ADDITIONAL USER PACKS. USER80 AND              *
                         *         USER81. AVAILABLE TO USERS.  THESE PACKS ARE 3380 DEVICES             *
                         *         AND REQUIRE DIFFERENT BLOCKSIZES THAN WERE USED FOR DATA              *
                         *         SETS ON THE 3350 USER PACKS.  ON JANUARY 30. THESE 3380               *
                         *         PACKS WILL BECOME THE DEFAULT DEVICES FOR NEW DATA SETS.              *
                         *         ALL USERS SHOULD READ MEMO 83020.001 FOR DETAILS ON 3380              *
                         *         DISK DRIVES.                                         (MCD)            *
                         *                                                                               *
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*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	0
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	1
NUMBER OF INPUT SOURCES	NSOURC =	5
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	36
NUMBER OF DISCRETE RECEPTORS	NXWYPT =	18
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =	.10000E 07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 =	0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 =	0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR =	10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET =	9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =	0.0
SURFACE STATION NO.	ISS =	93845
YEAR OF SURFACE DATA	ISY =	73
UPPER AIR STATION NO.	IUS =	13861
YEAR OF UPPER AIR DATA	IUY =	73
ALLOCATED DATA STORAGE	LIMIT =	43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =	1781 WORDS

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00
B	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00
C	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00
D	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00
E	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00
F	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.0	.0	.0	.0	.0	.0
B	.0	.0	.0	.0	.0	.0
C	.0	.0	.0	.0	.0	.0
D	.0	.0	.0	.0	.0	.0
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

200.0.

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***

(DEGREES)

10.0.	20.0.	30.0.	40.0.	50.0.	60.0.	70.0.	80.0.	90.0.	100.0.
110.0.	120.0.	130.0.	140.0.	150.0.	160.0.	170.0.	180.0.	190.0.	200.0.
210.0.	220.0.	230.0.	240.0.	250.0.	260.0.	270.0.	280.0.	290.0.	300.0.
310.0.	320.0.	330.0.	340.0.	350.0.	360.0.				

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-540.0.	550.0).	(-530.0.	560.0).	(-520.0.	570.0).	(-1970.0.	-740.0).	(-1900.0.	-820.0).
(-1840.0.	-900.0).	(-1770.0.	-970.0).	(-1700.0.	-1040.0).	(-1640.0.	-1120.0).	(-1570.0.	-1200.0).
(-1500.0.	-1270.0).	(-1440.0.	-1350.0).	(-1370.0.	-1420.0).	(-1300.0.	-1500.0).	(-1240.0.	-1570.0).
(-1170.0.	-1640.0).	(-1100.0.	-1720.0).	(-1040.0.	-1800.0).	(			

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	TAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	2	0	5	0.45000E-05	-30.0	0.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
2	2	0	5	0.45000E-05	-30.0	-80.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
3	2	0	5	0.63000E-04	-20.0	20.0	0.0	6.00	0.0	50.00	0.0	0.0	0.0	0.0
4	2	0	5	0.28000E-03	-40.0	0.0	0.0	4.00	0.0	20.00	0.0	0.0	0.0	0.0
5	0	0	5	0.50000E-01	-50.0	20.0	0.0	5.00	314.00	1.00	1.00	0.0	0.0	0.0

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

N-DAY
365 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.19737 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	9.28198
350.0 /	7.78509
340.0 /	6.49548
330.0 /	6.66129
320.0 /	7.19567
310.0 /	7.55345
300.0 /	7.84715
290.0 /	7.08589
280.0 /	7.35301
270.0 /	7.48054
260.0 /	7.13301
250.0 /	8.50932
240.0 /	6.53951
230.0 /	5.85912
220.0 /	5.75004
210.0 /	5.25484
200.0 /	4.56762
190.0 /	4.91825
180.0 /	4.64005
170.0 /	4.14834
160.0 /	3.96355
150.0 /	3.93745
140.0 /	3.79653
130.0 /	3.75889
120.0 /	4.39950
110.0 /	4.95340
100.0 /	5.58602
90.0 /	5.44008
80.0 /	4.90480
70.0 /	4.83862
60.0 /	6.42992
50.0 /	8.93583
40.0 /	10.72884
30.0 /	11.19737
20.0 /	9.13415
10.0 /	9.68750

N-DAY
365 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	- X -	- Y -	CON.	- X -	- Y -	CON.
-540.0	550.0	0.37990	-530.0	560.0	0.38884	-520.0	570.0	0.39143
-1970.0	-740.0	0.07152	-1900.0	-820.0	0.08609	-1840.0	-900.0	0.09238
-1770.0	-970.0	0.09670	-1700.0	-1040.0	0.09539	-1640.0	-1120.0	0.07765
-1570.0	-1200.0	0.06541	-1500.0	-1270.0	0.06878	-1440.0	-1350.0	0.07069
-1370.0	-1420.0	0.06404	-1300.0	-1500.0	0.06606	-1240.0	-1570.0	0.07227
-1170.0	-1640.0	0.06624	-1100.0	-1720.0	0.06388	-1040.0	-1800.0	0.06009

HIGH
3-HR
SGROUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1973 ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 363.56655 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	306.72676	(252, 1)
350.0 /	0.0	(0, 0)	216.65541	(224, 1)
340.0 /	0.0	(0, 0)	205.28615	(338, 2)
330.0 /	0.0	(0, 0)	222.22206	(338, 2)
320.0 /	0.0	(0, 0)	191.80462	(211, 8)
310.0 /	0.0	(0, 0)	225.99713	(73, 2)
300.0 /	0.0	(0, 0)	236.45054	(287, 1)
290.0 /	0.0	(0, 0)	264.78857	(358, 1)
280.0 /	0.0	(0, 0)	225.21832	(201, 1)
270.0 /	0.0	(0, 0)	264.70728	(255, 2)
260.0 /	0.0	(0, 0)	270.03931	(287, 7)
250.0 /	0.0	(0, 0)	322.69800	(328, 8)
240.0 /	0.0	(0, 0)	207.35622	(286, 1)
230.0 /	0.0	(0, 0)	164.67650	(291, 7)
220.0 /	0.0	(0, 0)	287.33105	(311, 2)
210.0 /	0.0	(0, 0)	264.21597	(262, 8)
200.0 /	0.0	(0, 0)	164.37303	(17, 3)
190.0 /	0.0	(0, 0)	220.03236	(297, 8)
180.0 /	0.0	(0, 0)	153.32164	(232, 2)
170.0 /	0.0	(0, 0)	170.66545	(335, 7)
160.0 /	0.0	(0, 0)	162.44630	(306, 1)
150.0 /	0.0	(0, 0)	148.71344	(306, 2)
140.0 /	0.0	(0, 0)	171.05907	(82, 2)
130.0 /	0.0	(0, 0)	166.09219	(58, 1)
120.0 /	0.0	(0, 0)	177.35667	(357, 1)
110.0 /	0.0	(0, 0)	188.27138	(119, 2)
100.0 /	0.0	(0, 0)	193.55560	(308, 2)
90.0 /	0.0	(0, 0)	194.64330	(346, 2)
80.0 /	0.0	(0, 0)	207.00397	(346, 1)
70.0 /	0.0	(0, 0)	264.19507	(299, 1)
60.0 /	0.0	(0, 0)	297.84399	(102, 1)
50.0 /	0.0	(0, 0)	341.46725	(323, 1)
40.0 /	0.0	(0, 0)	309.36743	(133, 1)
30.0 /	0.0	(0, 0)	363.56655	(300, 1)
20.0 /	0.0	(0, 0)	299.53066	(256, 1)
10.0 /	0.0	(0, 0)	329.70532	(209, 2)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1973 ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 389.36841 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	308.68286	(146, 1)
350.0 /	0.0	(0, 0)	214.53188	(304, 2)
340.0 /	0.0	(0, 0)	204.91380	(289, 1)
330.0 /	0.0	(0, 0)	196.61407	(191, 1)
320.0 /	0.0	(0, 0)	186.87230	(191, 1)
310.0 /	0.0	(0, 0)	191.21886	(198, 2)
300.0 /	0.0	(0, 0)	233.60057	(153, 1)
290.0 /	0.0	(0, 0)	243.28343	(357, 8)
280.0 /	0.0	(0, 0)	215.55168	(83, 1)
270.0 /	0.0	(0, 0)	238.68813	(181, 8)
260.0 /	0.0	(0, 0)	178.05719	(270, 8)
250.0 /	0.0	(0, 0)	322.47192	(239, 7)
240.0 /	0.0	(0, 0)	199.50812	(207, 8)
230.0 /	0.0	(0, 0)	160.27446	(122, 8)
220.0 /	0.0	(0, 0)	288.29761	(231, 1)
210.0 /	0.0	(0, 0)	228.37572	(275, 2)
200.0 /	0.0	(0, 0)	159.76678	(292, 2)
190.0 /	0.0	(0, 0)	218.35927	(257, 7)
180.0 /	0.0	(0, 0)	149.42764	(38, 7)
170.0 /	0.0	(0, 0)	153.37755	(335, 8)
160.0 /	0.0	(0, 0)	147.45775	(336, 1)
150.0 /	0.0	(0, 0)	147.39337	(203, 1)
140.0 /	0.0	(0, 0)	148.64337	(176, 2)
130.0 /	0.0	(0, 0)	145.70840	(82, 2)
120.0 /	0.0	(0, 0)	166.65265	(356, 8)
110.0 /	0.0	(0, 0)	177.10707	(219, 1)
100.0 /	0.0	(0, 0)	192.49721	(273, 1)
90.0 /	0.0	(0, 0)	187.48834	(307, 8)
80.0 /	0.0	(0, 0)	199.05109	(348, 7)
70.0 /	0.0	(0, 0)	251.71913	(299, 2)
60.0 /	0.0	(0, 0)	266.69722	(222, 2)
50.0 /	0.0	(0, 0)	307.93164	(120, 1)
40.0 /	0.0	(0, 0)	298.58785	(208, 2)
30.0 /	0.0	(0, 0)	389.36841	(309, 1)
20.0 /	0.0	(0, 0)	267.82666	(192, 2)
10.0 /	0.0	(0, 0)	295.68457	(304, 1)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1973 ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	363.96899	1	300	200.0	30.0	26	287.82666	2	192	200.0	20.0
2	359.36841	1	309	200.0	30.0	27	287.33105	2	311	200.0	220.0
3	341.46729	1	323	200.0	50.0	28	287.05078	1	37	200.0	10.0
4	331.99585	2	274	200.0	30.0	29	285.29761	1	231	200.0	220.0
5	329.70532	2	209	200.0	10.0	30	283.57666	8	306	200.0	40.0
6	322.69800	8	328	200.0	250.0	31	279.17212	1	274	200.0	30.0
7	322.47192	7	239	200.0	250.0	32	277.06689	3	323	200.0	50.0
8	318.51880	2	196	200.0	30.0	33	275.08691	1	20	200.0	30.0
9	317.49780	2	230	200.0	30.0	34	275.05371	8	54	200.0	30.0
10	310.02466	2	300	200.0	30.0	35	273.82178	1	31	200.0	40.0
11	309.36743	1	133	200.0	40.0	36	272.82227	1	233	200.0	40.0
12	308.72876	1	252	200.0	360.0	37	270.03931	7	287	200.0	260.0
13	308.68286	1	146	200.0	360.0	38	269.35014	2	20	200.0	30.0
14	307.93164	1	120	200.0	50.0	39	267.08325	7	322	200.0	50.0
15	299.93066	1	256	200.0	20.0	40	266.89722	2	222	200.0	60.0
16	298.58789	2	208	200.0	40.0	41	265.39478	2	55	200.0	30.0
17	297.84399	1	102	200.0	60.0	42	264.92310	8	308	200.0	30.0
18	297.50073	2	38	200.0	50.0	43	264.78857	1	358	200.0	290.0
19	295.66457	1	304	200.0	10.0	44	264.70728	2	255	200.0	270.0
20	294.66821	1	131	200.0	50.0	45	264.21997	8	262	200.0	210.0
21	293.47021	8	273	200.0	30.0	46	264.19507	1	259	200.0	70.0
22	293.41797	7	306	200.0	40.0	47	264.01025	2	199	200.0	40.0
23	293.25171	2	253	200.0	40.0	48	263.85132	7	62	200.0	40.0
24	291.84058	2	151	200.0	40.0	49	261.68896	2	258	200.0	50.0
25	288.49097	2	31	200.0	40.0	50	260.94678	2	139	200.0	10.0

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 138.33307 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	77.83162 (362, 1)
350.0 /	75.68294 (261, 1)
340.0 /	76.85455 (319, 1)
330.0 /	68.61356 (272, 1)
320.0 /	57.59575 (272, 1)
310.0 /	63.41560 (318, 1)
300.0 /	77.69615 (318, 1)
290.0 /	70.89972 (358, 1)
280.0 /	64.84360 (182, 1)
270.0 /	57.94914 (182, 1)
260.0 /	58.01866 (260, 1)
250.0 /	85.26045 (260, 1)
240.0 /	59.88618 (315, 1)
230.0 /	62.58034 (293, 1)
220.0 /	92.72467 (288, 1)
210.0 /	65.08278 (262, 1)
200.0 /	38.61011 (51, 1)
190.0 /	85.96002 (297, 1)
180.0 /	59.39412 (13, 1)
170.0 /	57.19623 (13, 1)
160.0 /	59.01845 (340, 1)
150.0 /	55.00502 (306, 1)
140.0 /	49.78560 (306, 1)
130.0 /	40.31447 (82, 1)
120.0 /	66.13626 (357, 1)
110.0 /	74.47614 (119, 1)
100.0 /	70.44249 (119, 1)
90.0 /	59.15382 (119, 1)
80.0 /	69.06386 (348, 1)
70.0 /	84.79030 (299, 1)
60.0 /	81.43822 (14, 1)
50.0 /	107.66666 (323, 1)
40.0 /	89.15936 (31, 1)
30.0 /	138.33307 (300, 1)
20.0 /	82.58705 (256, 1)
10.0 /	76.44914 (218, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY,PER.)	- X -	- Y -	CON.	(DAY,PER.)
-540.0	550.0	8.66003	(272, 1)	-530.0	560.0	9.77595	(272, 1)
-520.0	570.0	10.08180	(272, 1)	-1970.0	-740.0	1.09545	(260, 1)
-1900.0	-820.0	1.41763	(260, 1)	-1840.0	-900.0	1.15938	(239, 1)
-1770.0	-970.0	1.27535	(277, 1)	-1700.0	-1040.0	1.42646	(277, 1)
-1640.0	-1120.0	1.08488	(315, 1)	-1570.0	-1200.0	0.85109	(286, 1)
-1500.0	-1270.0	0.94173	(235, 1)	-1440.0	-1350.0	0.79939	(293, 1)
-1370.0	-1420.0	0.89603	(291, 1)	-1300.0	-1500.0	1.04101	(293, 1)
-1240.0	-1570.0	1.17929	(307, 1)	-1170.0	-1640.0	1.09485	(288, 1)
-1100.0	-1720.0	1.67629	(288, 1)	-1040.0	-1800.0	1.27799	(288, 1)

2ND HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 97.14058 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	72.65692 (227, 1)
350.0 /	71.41928 (216, 1)
340.0 /	71.49219 (216, 1)
330.0 /	63.81982 (319, 1)
320.0 /	56.44228 (318, 1)
310.0 /	59.67775 (156, 1)
300.0 /	73.91490 (317, 1)
290.0 /	70.14314 (357, 1)
280.0 /	58.28590 (248, 1)
270.0 /	56.55811 (255, 1)
260.0 /	49.66191 (287, 1)
250.0 /	75.27766 (239, 1)
240.0 /	53.82957 (235, 1)
230.0 /	58.15912 (291, 1)
220.0 /	66.71204 (231, 1)
210.0 /	49.44452 (288, 1)
200.0 /	38.24706 (262, 1)
190.0 /	41.84424 (327, 1)
180.0 /	56.29008 (297, 1)
170.0 /	51.93738 (335, 1)
160.0 /	56.20084 (175, 1)
150.0 /	52.36047 (305, 1)
140.0 /	44.69319 (82, 1)
130.0 /	33.69780 (58, 1)
120.0 /	65.81270 (356, 1)
110.0 /	58.91194 (356, 1)
100.0 /	62.00888 (308, 1)
90.0 /	54.95235 (317, 1)
80.0 /	54.92676 (346, 1)
70.0 /	50.13077 (298, 1)
60.0 /	74.16251 (222, 1)
50.0 /	96.41948 (38, 1)
40.0 /	85.23227 (253, 1)
30.0 /	97.14058 (20, 1)
20.0 /	78.97768 (152, 1)
10.0 /	76.10783 (362, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

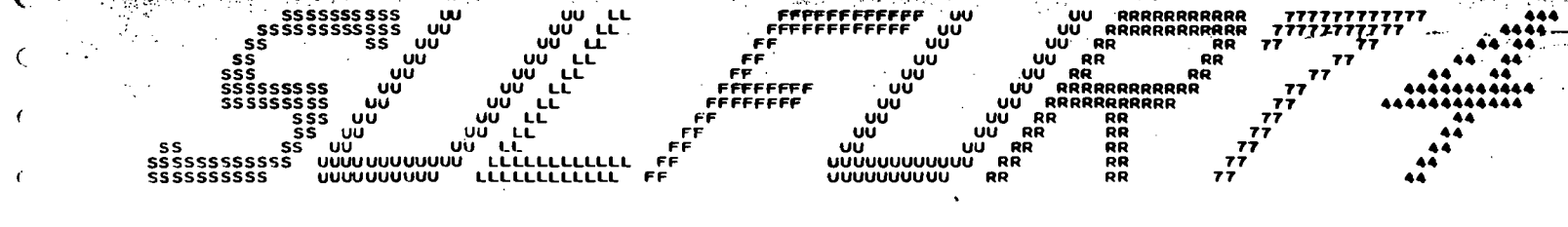
- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	4.78464	(264, 1)	-530.0	560.0	5.16609	(264, 1)
-520.0	570.0	5.17161	(264, 1)	-1970.0	-740.0	0.99099	(194, 1)
-1900.0	-820.0	0.91953	(284, 1)	-1840.0	-900.0	1.04722	(260, 1)
-1770.0	-970.0	1.09955	(265, 1)	-1700.0	-1040.0	1.06933	(285, 1)
-1640.0	-1120.0	0.93836	(265, 1)	-1570.0	-1200.0	0.78510	(235, 1)
-1500.0	-1270.0	0.81088	(207, 1)	-1440.0	-1350.0	0.78683	(294, 1)
-1370.0	-1420.0	0.79347	(241, 1)	-1300.0	-1500.0	0.95537	(291, 1)
-1240.0	-1570.0	0.88118	(293, 1)	-1170.0	-1640.0	0.88490	(234, 1)
-1100.0	-1720.0	1.26926	(231, 1)	-1040.0	-1800.0	1.23893	(311, 1)

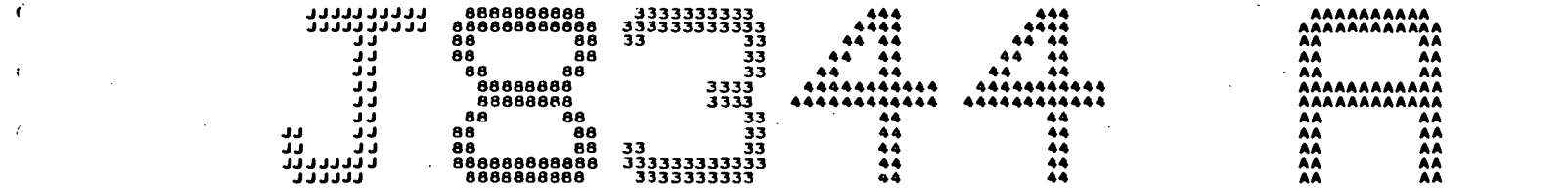
*** OCCIDENTAL SCCC - SULFUR IMPACT - 1973 ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	138.33307	1	300	200.0	30.0	26	74.47614	1	119	200.0	110.0
2	107.66666	1	323	200.0	50.0	27	74.45731	1	328	200.0	250.0
3	97.14058	1	20	200.0	30.0	28	74.19705	1	309	200.0	30.0
4	96.41948	1	38	200.0	50.0	29	74.16251	1	222	200.0	60.0
5	92.72467	1	288	200.0	220.0	30	73.91490	1	317	200.0	300.0
6	89.15936	1	31	200.0	40.0	31	72.94682	1	198	200.0	30.0
7	87.50281	1	274	200.0	30.0	32	72.73125	1	37	200.0	10.0
8	85.96002	1	297	200.0	190.0	33	72.65692	1	227	200.0	360.0
9	85.26045	1	260	200.0	250.0	34	71.49219	1	216	200.0	340.0
10	85.23227	1	253	200.0	40.0	35	71.41928	1	216	200.0	350.0
11	84.79030	1	299	200.0	70.0	36	70.89972	1	358	200.0	290.0
12	82.58705	1	256	200.0	20.0	37	70.61150	1	278	200.0	250.0
13	82.56136	1	306	200.0	40.0	38	70.44249	1	119	200.0	100.0
14	81.43822	1	14	200.0	60.0	39	70.26855	1	218	200.0	360.0
15	80.05228	1	300	200.0	40.0	40	70.14314	1	357	200.0	290.0
16	78.97768	1	152	200.0	20.0	41	70.03140	1	265	200.0	250.0
17	77.83162	1	362	200.0	360.0	42	69.86572	1	62	200.0	40.0
18	77.69615	1	318	200.0	300.0	43	69.78163	1	322	200.0	50.0
19	76.95337	1	192	200.0	20.0	44	69.33339	1	227	200.0	350.0
20	76.85455	1	319	200.0	340.0	45	69.06386	1	348	200.0	80.0
21	76.44914	1	218	200.0	10.0	46	68.61356	1	272	200.0	330.0
22	76.10783	1	362	200.0	10.0	47	68.09706	1	192	200.0	30.0
23	76.10658	1	152	200.0	10.0	48	67.70351	1	287	200.0	300.0
24	75.68294	1	261	200.0	350.0	49	66.81908	1	120	200.0	50.0
25	75.27766	1	239	200.0	250.0	50	66.71204	1	231	200.0	220.0





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                  SSSSSSSSSS   UU        UU  LL            FFFFFFFFFFFF  UU        UU  RRRRRRRRRRR   777777777777        444
                SSSSSSSSSSSS  UU        UU  LL            FFFFFFFFFFFF  UU        UU  RRRRRRRRRRRR  77777777777        4444
               SS        SS  UU        UU  LL            FF            UU        UU  RR        RR  77      77        44 44
              SS            UU        UU  LL            FF            UU        UU  RR        RR         77        44  44
             SSS           UU        UU  LL            FF            UU        UU  RR        RR        77        44   44
             SSSSSSSSS    UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRRR       77        44444444444
             SSSSSSSSS   UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRR        77       444444444444
                   SSS  UU        UU  LL            FF            UU        UU  RR    RR           77              44
                   SS  UU        UU  LL            FF            UU        UU  RR     RR          77              44
        SS        SS  UU        UU  LL            FF            UU        UU  RR      RR         77              44
       SSSSSSSSSSSS  UUUUUUUUUUUU  LLLLLLLLLLLL  FF            UUUUUUUUUUUU  RR       RR        77              44
       SSSSSSSSSS    UUUUUUUUUU   LLLLLLLLLLLL  FF             UUUUUUUUUU   RR        RR       77              44


                    JJJJJJJJJJ   8888888888    3333333333         444           444                    AAAAAAAAAA
                    JJJJJJJJJJ  888888888888  333333333333       4444          4444                   AAAAAAAAAAAA
                        JJ      88        88  33        33      44 44         44 44                   AA        AA
                        JJ      88        88            33     44  44        44  44                   AA        AA
                        JJ       88      88             33    44   44       44   44                   AA        AA
                        JJ        88888888           3333    44444444444   44444444444                AAAAAAAAAAAA
                        JJ        88888888           3333   444444444444  444444444444                AAAAAAAAAAAA
                        JJ       88      88             33         44            44                   AA        AA
                  JJ    JJ      88        88            33         44            44                   AA        AA
                  JJ    JJ      88        88  33        33         44            44                   AA        AA
                  JJJJJJJJ      888888888888  333333333333         44            44                   AA        AA
                   JJJJJJ        8888888888    3333333333          44            44                   AA        AA

*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8344 SULFUR74 0001 0001 NER      OXY-SULFUR           80001046.002  12.31.40 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*

                                  *********************************************************************************
                                  *                                                                               *
                                  *         N.E.R.D.C. NEWS:   1/20/83  12:25:34                                  *
                                  *                                                                               *
                                  *         THE NERDC HAS MADE TWO ADDITIONAL USER PACKS, USER80 AND              *
                                  *         USER81, AVAILABLE TO USERS.  THESE PACKS ARE 3380 DEVICES             *
                                  *         AND REQUIRE DIFFERENT BLOCKSIZES THAN WERE USED FOR DATA              *
                                  *         SETS ON THE 3350 USER PACKS.  ON JANUARY 30, THESE 3380               *
                                  *         PACKS WILL BECOME THE DEFAULT DEVICES FOR NEW DATA SETS.              *
                                  *         ALL USERS SHOULD READ MEMO 83020.001 FOR DETAILS ON 3380              *
                                  *         DISK DRIVES.                                         (MCD)            *
                                  *                                                                               *
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*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION) WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	0
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	1
NUMBER OF INPUT SOURCES	NSOURC =	5
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	36
NUMBER OF DISCRETE RECEPTORS	NXWYPT =	18
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =	.10000E 07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 =	0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 =	0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR =	10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET =	9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =	0.0
SURFACE STATION NO.	ISS =	93845
YEAR OF SURFACE DATA	ISY =	74
UPPER AIR STATION NO.	IUS =	13861
YEAR OF UPPER AIR DATA	IUY =	74
ALLOCATED DATA STORAGE	LIMIT =	43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =	1781 WORDS

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00
B	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00
C	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00
D	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00
E	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00
F	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.0	.0	.0	.0	.0	.0
B	.0	.0	.0	.0	.0	.0
C	.0	.0	.0	.0	.0	.0
D	.0	.0	.0	.0	.0	.0
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

200.0.

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***

(DEGREES)

10.0.	20.0.	30.0.	40.0.	50.0.	60.0.	70.0.	80.0.	90.0.	100.0.
110.0.	120.0.	130.0.	140.0.	150.0.	160.0.	170.0.	180.0.	190.0.	200.0.
210.0.	220.0.	230.0.	240.0.	250.0.	260.0.	270.0.	280.0.	290.0.	300.0.
310.0.	320.0.	330.0.	340.0.	350.0.	360.0.				

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-540.0.	550.0).	(-530.0.	560.0).	(-520.0.	570.0).	(-1970.0.	-740.0).	(-1900.0.	-820.0).
(-1840.0.	-900.0).	(-1770.0.	-970.0).	(-1700.0.	-1040.0).	(-1640.0.	-1120.0).	(-1570.0.	-1200.0).
(-1500.0.	-1270.0).	(-1440.0.	-1350.0).	(-1370.0.	-1420.0).	(-1300.0.	-1500.0).	(-1240.0.	-1570.0).
(-1170.0.	-1640.0).	(-1100.0.	-1720.0).	(-1040.0.	-1800.0).	(			

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	2	0	5	0.45000E-05	-30.0	0.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
2	2	0	5	0.45000E-05	-30.0	-80.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
3	2	0	5	0.63000E-04	-20.0	20.0	0.0	6.00	0.0	50.00	0.0	0.0	0.0	0.0
4	2	0	5	0.28000E-03	-40.0	0.0	0.0	4.00	0.0	20.00	0.0	0.0	0.0	0.0
5	0	0	5	0.50000E-01	-50.0	20.0	0.0	5.00	314.00	1.00	1.00	0.0	0.0	0.0

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

N-DAY
365 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 12.99583 AND OCCURRED AT (200.0, 30.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	8.47847
350.0 /	8.04354
340.0 /	6.93785
330.0 /	7.39348
320.0 /	7.98337
310.0 /	7.93250
300.0 /	7.71436
290.0 /	6.60950
280.0 /	7.51575
270.0 /	6.84857
260.0 /	7.34412
250.0 /	8.44750
240.0 /	6.69750
230.0 /	6.97835
220.0 /	5.72673
210.0 /	5.03170
200.0 /	4.62687
190.0 /	4.46226
180.0 /	4.75358
170.0 /	4.94161
160.0 /	5.07010
150.0 /	5.07236
140.0 /	4.90488
130.0 /	4.60879
120.0 /	4.63410
110.0 /	4.31763
100.0 /	4.04662
90.0 /	4.02433
80.0 /	4.72065
70.0 /	5.68539
60.0 /	7.43895
50.0 /	10.06195
40.0 /	12.20103
30.0 /	12.99583
20.0 /	10.86134
10.0 /	9.56932

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	- X -	- Y -	CON.	- X -	- Y -	CON.
-540.0	550.0	0.44407	-530.0	560.0	0.45377	-520.0	570.0	0.45737
-1970.0	-740.0	0.06843	-1900.0	-820.0	0.07751	-1840.0	-900.0	0.08883
-1770.0	-970.0	0.10027	-1700.0	-1040.0	0.10182	-1640.0	-1120.0	0.07907
-1570.0	-1200.0	0.06599	-1500.0	-1270.0	0.06819	-1440.0	-1350.0	0.07643
-1370.0	-1420.0	0.08335	-1300.0	-1500.0	0.08566	-1240.0	-1570.0	0.08492
-1170.0	-1640.0	0.06963	-1100.0	-1720.0	0.05495	-1040.0	-1800.0	0.05334

HIGH
3-HR
SGROUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1974 ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 349.93164 AND OCCURRED AT (200.0, 250.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	240.42772	(26, 1)
350.0 /	0.0	(0, 0)	237.37594	(225, 1)
340.0 /	0.0	(0, 0)	230.46538	(130, 2)
330.0 /	0.0	(0, 0)	199.98314	(195, 1)
320.0 /	0.0	(0, 0)	271.21562	(356, 7)
310.0 /	0.0	(0, 0)	239.23452	(238, 1)
300.0 /	0.0	(0, 0)	256.71313	(68, 2)
290.0 /	0.0	(0, 0)	202.48607	(284, 2)
280.0 /	0.0	(0, 0)	293.67554	(58, 8)
270.0 /	0.0	(0, 0)	275.77515	(339, 7)
260.0 /	0.0	(0, 0)	342.97661	(297, 7)
250.0 /	0.0	(0, 0)	349.93164	(199, 1)
240.0 /	0.0	(0, 0)	212.61297	(18, 7)
230.0 /	0.0	(0, 0)	313.11353	(246, 2)
220.0 /	0.0	(0, 0)	287.06128	(126, 8)
210.0 /	0.0	(0, 0)	206.08136	(253, 2)
200.0 /	0.0	(0, 0)	219.86562	(15, 2)
190.0 /	0.0	(0, 0)	206.45648	(231, 1)
180.0 /	0.0	(0, 0)	183.93252	(280, 8)
170.0 /	0.0	(0, 0)	179.22108	(57, 8)
160.0 /	0.0	(0, 0)	161.24261	(49, 1)
150.0 /	0.0	(0, 0)	177.42120	(110, 2)
140.0 /	0.0	(0, 0)	169.81403	(21, 7)
130.0 /	0.0	(0, 0)	181.96515	(146, 2)
120.0 /	0.0	(0, 0)	183.20262	(299, 7)
110.0 /	0.0	(0, 0)	183.90761	(162, 8)
100.0 /	0.0	(0, 0)	159.11050	(163, 2)
90.0 /	0.0	(0, 0)	187.68446	(66, 1)
80.0 /	0.0	(0, 0)	241.17633	(32, 2)
70.0 /	0.0	(0, 0)	252.11058	(300, 7)
60.0 /	0.0	(0, 0)	310.05160	(190, 2)
50.0 /	0.0	(0, 0)	327.76055	(64, 2)
40.0 /	0.0	(0, 0)	342.44556	(213, 1)
30.0 /	0.0	(0, 0)	347.86060	(23, 1)
20.0 /	0.0	(0, 0)	332.42758	(162, 2)
10.0 /	0.0	(0, 0)	325.66187	(188, 8)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1974 ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 349.72021 AND OCCURRED AT (200.0, 250.0) *

DIRECTION / (DEGREES) /	RANGE (METERS). 0.0		200.0	
360.0 /	0.0	(0, 0)	226.26031	(26, 2)
350.0 /	0.0	(0, 0)	233.36440	(225, 2)
340.0 /	0.0	(0, 0)	204.31834	(265, 2)
330.0 /	0.0	(0, 0)	195.88393	(265, 2)
320.0 /	0.0	(0, 0)	205.77058	(282, 1)
310.0 /	0.0	(0, 0)	236.09764	(258, 1)
300.0 /	0.0	(0, 0)	246.54230	(166, 8)
290.0 /	0.0	(0, 0)	186.97215	(101, 1)
280.0 /	0.0	(0, 0)	257.49219	(195, 8)
270.0 /	0.0	(0, 0)	250.99095	(284, 8)
260.0 /	0.0	(0, 0)	312.68266	(328, 8)
250.0 /	0.0	(0, 0)	349.72021	(286, 1)
240.0 /	0.0	(0, 0)	170.36212	(252, 8)
230.0 /	0.0	(0, 0)	285.60376	(254, 2)
220.0 /	0.0	(0, 0)	264.95581	(127, 1)
210.0 /	0.0	(0, 0)	204.47191	(259, 2)
200.0 /	0.0	(0, 0)	205.58649	(137, 1)
190.0 /	0.0	(0, 0)	187.17967	(273, 8)
180.0 /	0.0	(0, 0)	175.03954	(332, 1)
170.0 /	0.0	(0, 0)	172.25941	(210, 1)
160.0 /	0.0	(0, 0)	179.48651	(326, 8)
150.0 /	0.0	(0, 0)	168.32364	(22, 2)
140.0 /	0.0	(0, 0)	150.77521	(21, 8)
130.0 /	0.0	(0, 0)	162.02965	(95, 8)
120.0 /	0.0	(0, 0)	162.57933	(356, 1)
110.0 /	0.0	(0, 0)	165.45677	(163, 1)
100.0 /	0.0	(0, 0)	152.21751	(163, 1)
90.0 /	0.0	(0, 0)	174.54628	(219, 1)
80.0 /	0.0	(0, 0)	211.69220	(121, 2)
70.0 /	0.0	(0, 0)	222.54442	(124, 2)
60.0 /	0.0	(0, 0)	285.14136	(106, 7)
50.0 /	0.0	(0, 0)	305.95560	(64, 1)
40.0 /	0.0	(0, 0)	335.63013	(107, 1)
30.0 /	0.0	(0, 0)	345.09009	(361, 7)
20.0 /	0.0	(0, 0)	332.24512	(226, 2)
10.0 /	0.0	(0, 0)	321.13595	(126, 2)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1974 ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	349.93164	1	199	200.0	250.0	26	310.09180	2	190	200.0	60.0
2	349.72021	1	266	200.0	250.0	27	307.96118	2	239	200.0	30.0
3	347.86060	1	23	200.0	30.0	28	307.78076	3	44	200.0	40.0
4	345.05009	7	361	200.0	30.0	29	306.44971	1	16	200.0	10.0
5	342.97681	7	297	200.0	260.0	30	305.98560	1	64	200.0	50.0
6	342.44556	1	213	200.0	40.0	31	304.90503	2	244	200.0	20.0
7	341.87061	2	161	200.0	30.0	32	304.77319	1	306	200.0	260.0
8	339.63013	1	107	200.0	40.0	33	301.02905	1	43	200.0	40.0
9	338.09056	1	65	200.0	30.0	34	297.17505	2	43	200.0	40.0
10	332.42758	2	162	200.0	20.0	35	297.12598	7	365	200.0	50.0
11	332.24512	2	226	200.0	20.0	36	294.71802	1	189	200.0	10.0
12	329.29907	1	339	200.0	250.0	37	293.67554	8	58	200.0	280.0
13	327.76099	2	64	200.0	50.0	38	293.01147	8	63	200.0	50.0
14	325.66187	8	188	200.0	10.0	39	292.05225	2	100	200.0	50.0
15	324.71362	8	129	200.0	20.0	40	289.60376	2	254	200.0	230.0
16	324.22070	1	181	200.0	30.0	41	287.52246	8	42	200.0	40.0
17	321.13599	2	120	200.0	10.0	42	287.18359	8	306	200.0	250.0
18	321.04541	2	78	200.0	30.0	43	287.06128	8	126	200.0	220.0
19	320.82495	8	54	200.0	20.0	44	286.55298	1	61	200.0	20.0
20	320.69189	1	27	200.0	20.0	45	285.14136	7	106	200.0	60.0
21	318.58350	1	120	200.0	10.0	46	282.50684	8	205	200.0	250.0
22	314.27686	2	209	200.0	30.0	47	282.15918	8	66	200.0	20.0
23	313.86963	2	180	200.0	40.0	48	281.96680	8	225	200.0	20.0
24	313.11353	2	246	200.0	230.0	49	281.19092	2	307	200.0	250.0
25	312.68266	8	328	200.0	260.0	50	278.60645	2	61	200.0	20.0

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 159.13348 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	90.62839 (26. 1)
350.0 /	84.62291 (25. 1)
340.0 /	74.04506 (138. 1)
330.0 /	68.59315 (59. 1)
320.0 /	78.43222 (301. 1)
310.0 /	82.72612 (68. 1)
300.0 /	101.40109 (68. 1)
290.0 /	69.61497 (217. 1)
280.0 /	110.79016 (217. 1)
270.0 /	65.82091 (257. 1)
260.0 /	95.19127 (306. 1)
250.0 /	130.24747 (286. 1)
240.0 /	49.04164 (312. 1)
230.0 /	80.72975 (170. 1)
220.0 /	106.74875 (127. 1)
210.0 /	61.75888 (319. 1)
200.0 /	59.36055 (299. 1)
190.0 /	47.49544 (231. 1)
180.0 /	88.10553 (274. 1)
170.0 /	83.92244 (332. 1)
160.0 /	66.20708 (332. 1)
150.0 /	81.09145 (291. 1)
140.0 /	78.93144 (291. 1)
130.0 /	60.47174 (290. 1)
120.0 /	55.44264 (356. 1)
110.0 /	53.14388 (356. 1)
100.0 /	46.71626 (41. 1)
90.0 /	52.02151 (77. 1)
80.0 /	79.36818 (32. 1)
70.0 /	103.27734 (300. 1)
60.0 /	117.05402 (300. 1)
50.0 /	108.58185 (64. 1)
40.0 /	159.13348 (43. 1)
30.0 /	116.82147 (181. 1)
20.0 /	103.44124 (61. 1)
10.0 /	90.70335 (120. 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	8.62497	(128. 1)	-530.0	560.0	9.58823	(128. 1)
-520.0	570.0	10.29503	(59. 1)	-1970.0	-740.0	1.12945	(306. 1)
-1900.0	-820.0	1.27606	(306. 1)	-1840.0	-900.0	2.03879	(286. 1)
-1770.0	-970.0	2.15832	(286. 1)	-1700.0	-1040.0	1.79766	(307. 1)
-1640.0	-1120.0	1.05549	(312. 1)	-1570.0	-1200.0	0.73372	(312. 1)
-1500.0	-1270.0	1.06493	(277. 1)	-1440.0	-1350.0	1.25854	(333. 1)
-1370.0	-1420.0	1.34028	(276. 1)	-1300.0	-1500.0	1.55591	(305. 1)
-1240.0	-1570.0	1.47943	(313. 1)	-1170.0	-1640.0	1.19212	(127. 1)
-1100.0	-1720.0	1.84384	(127. 1)	-1040.0	-1800.0	1.65051	(127. 1)

2ND HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 124.67110 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	75.62923 (25, 1)
350.0 /	75.46790 (139, 1)
340.0 /	67.01111 (211, 1)
330.0 /	67.06825 (282, 1)
320.0 /	75.06068 (282, 1)
310.0 /	74.51479 (301, 1)
300.0 /	66.50183 (237, 1)
290.0 /	64.50612 (284, 1)
280.0 /	87.43735 (302, 1)
270.0 /	63.64308 (217, 1)
260.0 /	78.00102 (328, 1)
250.0 /	118.08893 (306, 1)
240.0 /	46.08348 (277, 1)
230.0 /	77.79329 (246, 1)
220.0 /	66.65169 (126, 1)
210.0 /	56.63051 (298, 1)
200.0 /	58.08351 (15, 1)
190.0 /	46.84561 (338, 1)
180.0 /	80.06682 (293, 1)
170.0 /	63.60432 (274, 1)
160.0 /	47.85661 (49, 1)
150.0 /	46.56166 (49, 1)
140.0 /	61.75264 (290, 1)
130.0 /	54.30077 (291, 1)
120.0 /	50.02962 (299, 1)
110.0 /	53.10681 (355, 1)
100.0 /	46.03963 (77, 1)
90.0 /	49.64772 (41, 1)
80.0 /	53.40102 (121, 1)
70.0 /	56.45201 (124, 1)
60.0 /	74.33284 (190, 1)
50.0 /	94.07584 (365, 1)
40.0 /	124.67110 (44, 1)
30.0 /	97.12585 (239, 1)
20.0 /	92.42377 (226, 1)
10.0 /	87.50156 (16, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

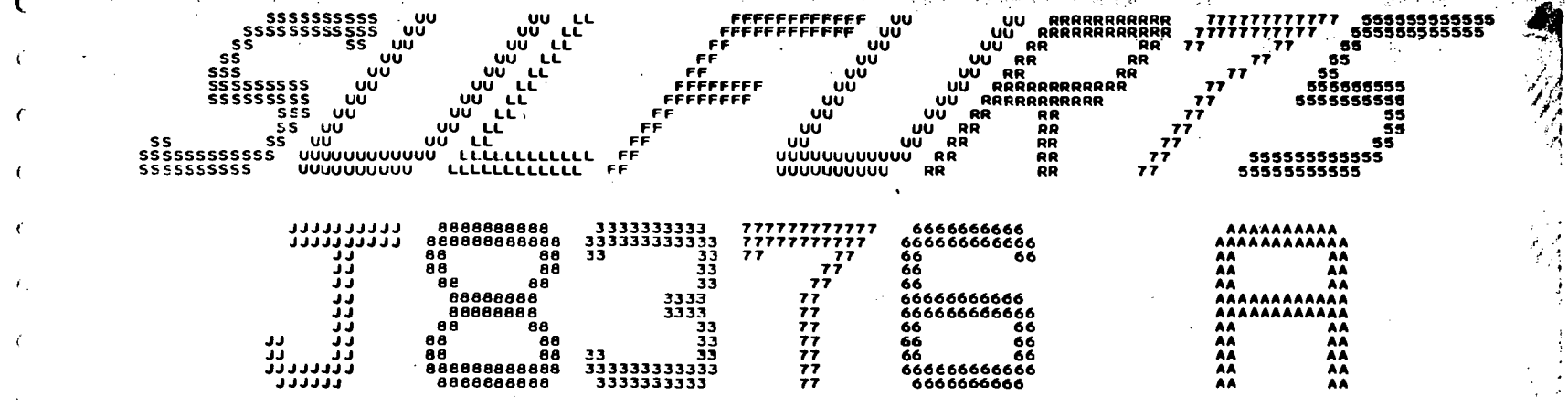
- X -	- Y -	CON.	(DAY,PER.)	- X -	- Y -	CON.	(DAY,PER.)
-540.0	550.0	7.05071	(59, 1)	-530.0	560.0	8.96263	(59, 1)
-520.0	570.0	9.83290	(128, 1)	-1970.0	-740.0	1.11093	(303, 1)
-1900.0	-820.0	0.94859	(219, 1)	-1840.0	-900.0	1.64749	(199, 1)
-1770.0	-970.0	1.99804	(306, 1)	-1700.0	-1040.0	1.41583	(306, 1)
-1640.0	-1120.0	0.79201	(311, 1)	-1570.0	-1200.0	0.68863	(267, 1)
-1500.0	-1270.0	0.79044	(340, 1)	-1440.0	-1350.0	0.86823	(296, 1)
-1370.0	-1420.0	1.29306	(170, 1)	-1300.0	-1500.0	1.54806	(313, 1)
-1240.0	-1570.0	1.27037	(169, 1)	-1170.0	-1640.0	0.96009	(314, 1)
-1100.0	-1720.0	1.07683	(126, 1)	-1040.0	-1800.0	1.34824	(126, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1974 ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	159.13348	1	43	200.0	40.0	26	87.32796	1	43	200.0	50.0
2	130.24747	1	286	200.0	250.0	27	87.23810	1	6	200.0	30.0
3	124.67110	1	44	200.0	40.0	28	86.88889	1	199	200.0	250.0
4	120.69189	1	180	200.0	40.0	29	86.38409	1	244	200.0	20.0
5	118.08893	1	306	200.0	250.0	30	84.62291	1	25	200.0	350.0
6	117.05402	1	300	200.0	60.0	31	84.30907	1	339	200.0	250.0
7	116.82147	1	181	200.0	30.0	32	83.92244	1	332	200.0	170.0
8	110.79016	1	217	200.0	280.0	33	82.72612	1	68	200.0	310.0
9	108.58185	1	64	200.0	50.0	34	81.09145	1	291	200.0	150.0
10	106.74875	1	127	200.0	220.0	35	80.72975	1	170	200.0	230.0
11	103.44124	1	61	200.0	20.0	36	80.06682	1	293	200.0	180.0
12	103.27734	1	300	200.0	70.0	37	79.54799	1	66	200.0	20.0
13	101.40109	1	68	200.0	300.0	38	79.36818	1	32	200.0	80.0
14	97.12585	1	239	200.0	30.0	39	78.93144	1	291	200.0	140.0
15	95.19127	1	306	200.0	260.0	40	78.54349	1	61	200.0	30.0
16	94.07584	1	365	200.0	50.0	41	78.43222	1	301	200.0	320.0
17	92.54999	1	307	200.0	250.0	42	78.00102	1	328	200.0	260.0
18	92.42377	1	226	200.0	20.0	43	77.79329	1	246	200.0	230.0
19	91.60422	1	78	200.0	30.0	44	76.22130	1	27	200.0	30.0
20	90.92258	1	23	200.0	30.0	45	76.17538	1	254	200.0	230.0
21	90.70335	1	120	200.0	10.0	46	75.98314	1	365	200.0	40.0
22	90.62839	1	26	200.0	360.0	47	75.62923	1	25	200.0	360.0
23	88.10553	1	274	200.0	180.0	48	75.46790	1	139	200.0	350.0
24	87.50156	1	16	200.0	10.0	49	75.34337	1	181	200.0	40.0
25	87.43735	1	302	200.0	280.0	50	75.25188	1	365	200.0	30.0



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                  SSSSSSSSSS   UU        UU  LL            FFFFFFFFFFFF  UU        UU  RRRRRRRRRRR   777777777777  555555555555
                SSSSSSSSSSSS  UU        UU  LL            FFFFFFFFFFFF  UU        UU  RRRRRRRRRRRR  77777777777   555555555555
               SS        SS  UU        UU  LL            FF            UU        UU  RR        RR  77      77    55
              SS            UU        UU  LL            FF            UU        UU  RR        RR         77     55
             SSS           UU        UU  LL            FF            UU        UU  RR        RR        77      55
             SSSSSSSSS    UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRRR       77       555555555
             SSSSSSSSS   UU        UU  LL            FFFFFFFF      UU        UU  RRRRRRRRRRR        77       5555555555
                   SSS  UU        UU  LL            FF            UU        UU  RR    RR           77                55
                   SS  UU        UU  LL            FF            UU        UU  RR     RR          77                 55
        SS        SS  UU        UU  LL            FF            UU        UU  RR      RR         77                 55
       SSSSSSSSSSSS  UUUUUUUUUUUU  LLLLLLLLLLLL  FF            UUUUUUUUUUUU  RR       RR        77       555555555555
       SSSSSSSSSS    UUUUUUUUUU   LLLLLLLLLLLL  FF             UUUUUUUUUU   RR        RR       77       55555555555


                    JJJJJJJJJJ   8888888888    3333333333   777777777777   6666666666                 AAAAAAAAAA
                    JJJJJJJJJJ  888888888888  333333333333  77777777777   666666666666               AAAAAAAAAAAA
                        JJ      88        88  33        33  77      77    66        66               AA        AA
                        JJ      88        88            33         77     66                         AA        AA
                        JJ       88      88             33        77      66                         AA        AA
                        JJ        88888888           3333        77       6666666666                 AAAAAAAAAAAA
                        JJ        88888888           3333        77       666666666666               AAAAAAAAAAAA
                        JJ       88      88             33       77       66        66               AA        AA
                  JJ    JJ      88        88            33       77       66        66               AA        AA
                  JJ    JJ      88        88  33        33       77       66        66               AA        AA
                  JJJJJJJJ      888888888888  333333333333       77       666666666666               AA        AA
                   JJJJJJ        8888888888    3333333333        77        6666666666                AA        AA

*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8376 SULFUR75 0001 0001 NER      OXY-SULFUR           80001046.002  12.43.18 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*

                         *********************************************************************************
                         *                                                                               *
                         *         N.E.R.C.C. NEWS:   1/20/83  12:25:34                                  *
                         *                                                                               *
                         *         THE NERDC HAS MADE TWO ADDITIONAL USER PACKS. USER80 AND              *
                         *         USER81. AVAILABLE TO USERS.  THESE PACKS ARE 3380 DEVICES             *
                         *         AND REQUIRE DIFFERENT BLOCKSIZES THAN WERE USED FOR DATA              *
                         *         SETS ON THE 3350 USER PACKS.  ON JANUARY 30. THESE 3380               *
                         *         PACKS WILL BECOME THE DEFAULT DEVICES FOR NEW DATA SETS.              *
                         *         ALL USERS SHOULD READ MEMO 83020.001 FOR DETAILS ON 3380              *
                         *         DISK DRIVES.                                         (MCD)            *
                         *                                                                               *
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*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	0
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	1
NUMBER OF INPUT SOURCES	NSOURC =	5
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	36
NUMBER OF DISCRETE RECEPTORS	NXWYPT =	18
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =	.10000E 07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 =	0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 =	0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR =	10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	INET =	9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =	0.0
SURFACE STATION NO.	ISS =	93845
YEAR OF SURFACE DATA	ISY =	75
UPPER AIR STATION NO.	IUS =	13861
YEAR OF UPPER AIR DATA	IUY =	75
ALLOCATED DATA STORAGE	LIMIT =	43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MINIT =	1781 WORDS

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54. 3.09. 5.14. 8.23. 10.80.

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00
B	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00
C	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00
D	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00
E	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00
F	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.0	.0	.0	.0	.0	.0
B	.0	.0	.0	.0	.0	.0
C	.0	.0	.0	.0	.0	.0
D	.0	.0	.0	.0	.0	.0
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

200.0.

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***
(DEGREES)

10.0.	20.0.	30.0.	40.0.	50.0.	60.0.	70.0.	80.0.	90.0.	100.0.
110.0.	120.0.	130.0.	140.0.	150.0.	160.0.	170.0.	180.0.	190.0.	200.0.
210.0.	220.0.	230.0.	240.0.	250.0.	260.0.	270.0.	280.0.	290.0.	300.0.
310.0.	320.0.	330.0.	340.0.	350.0.	360.0.				

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-540.0.	550.0).	(	-530.0.	560.0).	(	-520.0.	570.0).	(	-1970.0.	-740.0).	(	-1900.0.	-820.0).
(	-1840.0.	-900.0).	(	-1770.0.	-970.0).	(	-1700.0.	-1040.0).	(	-1640.0.	-1120.0).	(	-1570.0.	-1200.0).
(	-1500.0.	-1270.0).	(	-1440.0.	-1350.0).	(	-1370.0.	-1420.0).	(	-1300.0.	-1500.0).	(	-1240.0.	-1570.0).
(	-1170.0.	-1640.0).	(	-1100.0.	-1720.0).	(	-1040.0.	-1800.0).	(					

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	2	0	5	0.45000E-05	-30.0	0.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
2	2	0	5	0.45000E-05	-30.0	-80.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
3	2	0	5	0.63000E-04	-20.0	20.0	0.0	6.00	0.0	50.00	0.0	0.0	0.0	0.0
4	2	0	5	0.28000E-03	-40.0	0.0	0.0	4.00	0.0	20.00	0.0	0.0	0.0	0.0
5	0	0	5	0.50000E-01	-50.0	20.0	0.0	5.00	314.00	1.00	1.00	0.0	0.0	0.0

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

N.-DAY
365 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 10.60065 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	8.52438
350.0 /	8.10135
340.0 /	7.35057
330.0 /	8.09605
320.0 /	8.67790
310.0 /	8.84846
300.0 /	8.20193
290.0 /	7.90651
280.0 /	7.24187
270.0 /	7.18077
260.0 /	7.24087
250.0 /	8.17525
240.0 /	7.14081
230.0 /	6.47835
220.0 /	6.32468
210.0 /	6.01267
200.0 /	5.94531
190.0 /	5.83929
180.0 /	5.76649
170.0 /	4.93830
160.0 /	4.59673
150.0 /	4.52238
140.0 /	4.80114
130.0 /	5.33711
120.0 /	5.04090
110.0 /	4.73457
100.0 /	3.79011
90.0 /	3.81110
80.0 /	4.00672
70.0 /	5.23949
60.0 /	7.33408
50.0 /	9.73991
40.0 /	10.60065
30.0 /	8.57997
20.0 /	7.12684
10.0 /	8.12234

N-DAY
365 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	- X -	- Y -	CON.	- X -	- Y -	CON.
-540.0	550.0	0.51320	-530.0	560.0	0.49475	-520.0	570.0	0.47983
-1970.0	-740.0	0.07117	-1900.0	-820.0	0.07878	-1840.0	-900.0	0.08489
-1770.0	-970.0	0.09457	-1700.0	-1040.0	0.09356	-1640.0	-1120.0	0.07858
-1570.0	-1200.0	0.07209	-1500.0	-1270.0	0.08307	-1440.0	-1350.0	0.08204
-1370.0	-1420.0	0.07270	-1300.0	-1500.0	0.07104	-1240.0	-1570.0	0.07294
-1170.0	-1640.0	0.07013	-1100.0	-1720.0	0.06879	-1040.0	-1800.0	0.07143

HIGH
3-HR
SGRCUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1975 ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 373.29224 AND OCCURRED AT (200.0, 10.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	305.84750	(172, 1)
350.0 /	0.0	(0, 0)	253.71368	(168, 1)
340.0 /	0.0	(0, 0)	205.82075	(227, 1)
330.0 /	0.0	(0, 0)	241.99563	(227, 1)
320.0 /	0.0	(0, 0)	156.09165	(300, 1)
310.0 /	0.0	(0, 0)	241.89085	(46, 1)
300.0 /	0.0	(0, 0)	261.64541	(287, 1)
290.0 /	0.0	(0, 0)	259.79565	(134, 2)
280.0 /	0.0	(0, 0)	274.15361	(338, 8)
270.0 /	0.0	(0, 0)	256.15971	(264, 1)
260.0 /	0.0	(0, 0)	211.19536	(340, 1)
250.0 /	0.0	(0, 0)	286.26660	(332, 2)
240.0 /	0.0	(0, 0)	281.37866	(253, 8)
230.0 /	0.0	(0, 0)	285.93750	(246, 2)
220.0 /	0.0	(0, 0)	279.61035	(349, 2)
210.0 /	0.0	(0, 0)	293.14815	(295, 1)
200.0 /	0.0	(0, 0)	252.19521	(321, 1)
190.0 /	0.0	(0, 0)	195.91364	(39, 2)
180.0 /	0.0	(0, 0)	207.68625	(286, 1)
170.0 /	0.0	(0, 0)	181.80182	(346, 2)
160.0 /	0.0	(0, 0)	146.55625	(102, 7)
150.0 /	0.0	(0, 0)	156.23635	(293, 7)
140.0 /	0.0	(0, 0)	169.68658	(155, 8)
130.0 /	0.0	(0, 0)	171.56761	(58, 8)
120.0 /	0.0	(0, 0)	171.68837	(161, 8)
110.0 /	0.0	(0, 0)	150.39318	(125, 2)
100.0 /	0.0	(0, 0)	163.36776	(127, 1)
90.0 /	0.0	(0, 0)	201.75731	(247, 1)
80.0 /	0.0	(0, 0)	215.17340	(155, 2)
70.0 /	0.0	(0, 0)	256.11230	(40, 3)
60.0 /	0.0	(0, 0)	316.56631	(32, 2)
50.0 /	0.0	(0, 0)	335.85376	(27, 7)
40.0 /	0.0	(0, 0)	351.79907	(204, 1)
30.0 /	0.0	(0, 0)	342.12666	(80, 2)
20.0 /	0.0	(0, 0)	256.16604	(203, 1)
10.0 /	0.0	(0, 0)	373.29224	(146, 1)

2ND HIGH
3-HR
SGROUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1975 ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 365.76392 AND OCCURRED AT (200.0, 10.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	264.32861	(235, 8)
350.0 /	0.0	(0, 0)	243.77074	(167, 8)
340.0 /	0.0	(0, 0)	205.15045	(205, 1)
330.0 /	0.0	(0, 0)	196.75677	(255, 1)
320.0 /	0.0	(0, 0)	192.73102	(255, 1)
310.0 /	0.0	(0, 0)	241.66640	(142, 1)
300.0 /	0.0	(0, 0)	220.99413	(267, 2)
290.0 /	0.0	(0, 0)	249.16771	(183, 8)
280.0 /	0.0	(0, 0)	235.84691	(149, 1)
270.0 /	0.0	(0, 0)	225.60154	(284, 2)
260.0 /	0.0	(0, 0)	193.67780	(46, 3)
250.0 /	0.0	(0, 0)	283.40063	(171, 1)
240.0 /	0.0	(0, 0)	249.10154	(348, 2)
230.0 /	0.0	(0, 0)	247.58356	(184, 2)
220.0 /	0.0	(0, 0)	218.78525	(320, 1)
210.0 /	0.0	(0, 0)	270.86084	(294, 7)
200.0 /	0.0	(0, 0)	248.71556	(320, 8)
190.0 /	0.0	(0, 0)	177.56132	(283, 1)
180.0 /	0.0	(0, 0)	176.11253	(45, 3)
170.0 /	0.0	(0, 0)	152.53172	(330, 2)
160.0 /	0.0	(0, 0)	145.55435	(346, 2)
150.0 /	0.0	(0, 0)	150.63414	(292, 8)
140.0 /	0.0	(0, 0)	163.42633	(6, 8)
130.0 /	0.0	(0, 0)	170.52969	(16, 1)
120.0 /	0.0	(0, 0)	151.49600	(256, 1)
110.0 /	0.0	(0, 0)	145.77350	(161, 8)
100.0 /	0.0	(0, 0)	132.15355	(97, 1)
90.0 /	0.0	(0, 0)	182.59662	(122, 2)
80.0 /	0.0	(0, 0)	201.25648	(247, 2)
70.0 /	0.0	(0, 0)	250.80482	(40, 2)
60.0 /	0.0	(0, 0)	288.05551	(28, 8)
50.0 /	0.0	(0, 0)	327.22168	(28, 1)
40.0 /	0.0	(0, 0)	341.34106	(220, 1)
30.0 /	0.0	(0, 0)	297.74072	(247, 8)
20.0 /	0.0	(0, 0)	241.22557	(145, 8)
10.0 /	0.0	(0, 0)	365.76392	(146, 2)

MAX 50
3-HR
SGROUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1975 ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	373.29224	1	146	200.0	10.0	26	286.26660	2	332	200.0	250.0
2	355.76392	2	146	200.0	10.0	27	286.23804	1	160	200.0	40.0
3	351.79907	1	204	200.0	40.0	28	285.93750	2	246	200.0	230.0
4	342.12866	2	80	200.0	30.0	29	283.40063	1	171	200.0	250.0
5	341.34106	1	220	200.0	40.0	30	283.06934	1	332	200.0	250.0
6	335.85376	7	27	200.0	50.0	31	281.53442	1	27	200.0	40.0
7	327.22168	1	28	200.0	50.0	32	281.37866	8	253	200.0	240.0
8	321.70410	1	345	200.0	40.0	33	279.61035	2	349	200.0	220.0
9	317.68994	8	219	200.0	40.0	34	276.28467	2	31	200.0	50.0
10	316.96631	8	32	200.0	60.0	35	274.15381	8	338	200.0	280.0
11	313.25317	2	27	200.0	40.0	36	273.39014	1	103	200.0	30.0
12	310.01050	8	27	200.0	50.0	37	272.89111	1	30	200.0	40.0
13	305.84790	1	172	200.0	360.0	38	270.86084	7	294	200.0	210.0
14	306.79443	8	31	200.0	40.0	39	270.74194	1	133	200.0	250.0
15	304.45093	1	154	200.0	50.0	40	269.76465	8	222	200.0	250.0
16	304.24565	2	228	200.0	10.0	41	269.07178	1	1	200.0	50.0
17	299.71826	3	27	200.0	40.0	42	267.10132	2	248	200.0	30.0
18	298.96631	8	26	200.0	40.0	43	267.07617	8	110	200.0	50.0
19	297.74072	8	247	200.0	30.0	44	266.87109	2	107	200.0	50.0
20	293.14819	1	295	200.0	210.0	45	266.85303	8	179	200.0	30.0
21	293.14160	1	80	200.0	30.0	46	264.32861	8	235	200.0	360.0
22	292.43896	8	30	200.0	50.0	47	264.27246	2	235	200.0	210.0
23	290.20239	2	285	200.0	50.0	48	264.05347	1	248	200.0	30.0
24	288.50366	1	356	200.0	40.0	49	263.73511	1	117	200.0	360.0
25	288.05591	8	28	200.0	60.0	50	262.73999	8	102	200.0	30.0

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 151.36057 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	94.91919 (235, 1)
350.0 /	77.98854 (223, 1)
340.0 /	68.61952 (205, 1)
330.0 /	69.35765 (141, 1)
320.0 /	79.39745 (141, 1)
310.0 /	73.07597 (142, 1)
300.0 /	103.92584 (287, 1)
290.0 /	75.03931 (339, 1)
280.0 /	79.55113 (338, 1)
270.0 /	64.75426 (284, 1)
260.0 /	52.16566 (196, 1)
250.0 /	103.71747 (332, 1)
240.0 /	61.83009 (263, 1)
230.0 /	73.36104 (246, 1)
220.0 /	69.05418 (349, 1)
210.0 /	71.19637 (295, 1)
200.0 /	77.80580 (337, 1)
190.0 /	87.88503 (51, 1)
180.0 /	64.51408 (51, 1)
170.0 /	55.03653 (346, 1)
160.0 /	51.26607 (38, 1)
150.0 /	56.27180 (293, 1)
140.0 /	60.74168 (16, 1)
130.0 /	65.97382 (16, 1)
120.0 /	63.96019 (15, 1)
110.0 /	45.61998 (291, 1)
100.0 /	47.59131 (56, 1)
90.0 /	43.46591 (122, 1)
80.0 /	62.31795 (179, 1)
70.0 /	100.13068 (40, 1)
60.0 /	133.59875 (32, 1)
50.0 /	136.12534 (31, 1)
40.0 /	151.36057 (27, 1)
30.0 /	125.50865 (80, 1)
20.0 /	87.62723 (203, 1)
10.0 /	109.21596 (146, 1)

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	6.53819	(141, 1)	-530.0	560.0	7.12862	(141, 1)
-520.0	570.0	7.57802	(141, 1)	-1970.0	-740.0	1.05031	(3, 1)
-1900.0	-820.0	1.14067	(332, 1)	-1840.0	-900.0	1.41244	(332, 1)
-1770.0	-970.0	1.27743	(332, 1)	-1700.0	-1040.0	1.62568	(133, 1)
-1640.0	-1120.0	0.97318	(241, 1)	-1570.0	-1200.0	0.82390	(241, 1)
-1500.0	-1270.0	1.45953	(176, 1)	-1440.0	-1350.0	1.56520	(176, 1)
-1370.0	-1420.0	1.14634	(246, 1)	-1300.0	-1500.0	1.21799	(302, 1)
-1240.0	-1570.0	1.50899	(184, 1)	-1170.0	-1640.0	0.82789	(184, 1)
-1100.0	-1720.0	0.87626	(349, 1)	-1040.0	-1800.0	1.58845	(320, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 126.96773 AND OCCURRED AT (200.0, 50.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	94.49388 (236, 1)
350.0 /	70.35269 (205, 1)
340.0 /	63.61430 (282, 1)
330.0 /	66.76247 (288, 1)
320.0 /	71.00682 (142, 1)
310.0 /	71.73979 (287, 1)
300.0 /	66.88094 (339, 1)
290.0 /	65.75056 (195, 1)
280.0 /	77.90590 (339, 1)
270.0 /	56.83571 (279, 1)
260.0 /	45.02469 (130, 1)
250.0 /	65.01718 (264, 1)
240.0 /	57.31210 (176, 1)
230.0 /	70.03383 (302, 1)
220.0 /	66.18587 (320, 1)
210.0 /	68.03801 (294, 1)
200.0 /	68.94408 (321, 1)
190.0 /	64.94690 (321, 1)
180.0 /	62.71631 (336, 1)
170.0 /	48.52245 (336, 1)
160.0 /	50.29597 (346, 1)
150.0 /	50.10747 (38, 1)
140.0 /	55.15224 (6, 1)
130.0 /	62.68980 (15, 1)
120.0 /	53.66895 (59, 1)
110.0 /	43.99373 (59, 1)
100.0 /	38.63904 (125, 1)
90.0 /	43.46181 (56, 1)
80.0 /	61.09158 (155, 1)
70.0 /	59.22908 (33, 1)
60.0 /	83.16768 (28, 1)
50.0 /	126.96773 (27, 1)
40.0 /	98.67380 (160, 1)
30.0 /	95.08154 (248, 1)
20.0 /	71.30748 (228, 1)
10.0 /	108.00909 (228, 1)

2ND HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

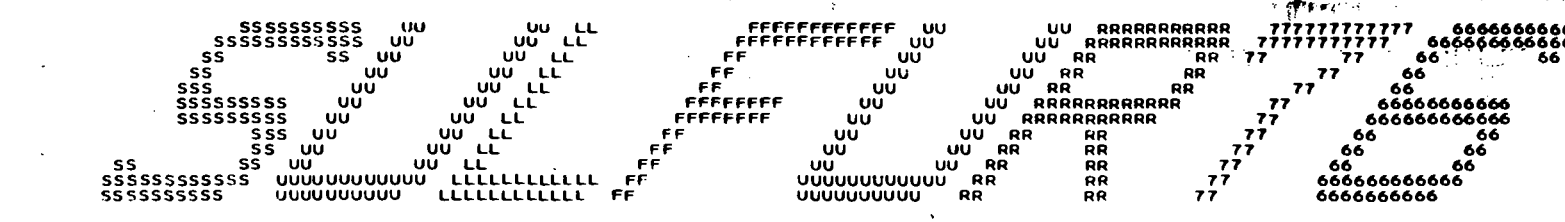
- X -	- Y -	CON.	(DAY,PER.)	- X -	- Y -	CON.	(DAY,PER.)
-540.0	550.0	6.26381	(142, 1)	-530.0	560.0	6.35839	(255, 1)
-520.0	570.0	6.75185	(255, 1)	-1970.0	-740.0	0.73089	(348, 1)
-1900.0	-820.0	1.03285	(131, 1)	-1840.0	-900.0	0.77873	(273, 1)
-1770.0	-970.0	1.24869	(263, 1)	-1700.0	-1040.0	1.32025	(332, 1)
-1640.0	-1120.0	0.76884	(133, 1)	-1570.0	-1200.0	0.81558	(277, 1)
-1500.0	-1270.0	1.18815	(263, 1)	-1440.0	-1350.0	1.13354	(246, 1)
-1370.0	-1420.0	1.02299	(177, 1)	-1300.0	-1500.0	1.08475	(246, 1)
-1240.0	-1570.0	1.13397	(302, 1)	-1170.0	-1640.0	0.80204	(349, 1)
-1100.0	-1720.0	0.84192	(271, 1)	-1040.0	-1800.0	1.41447	(349, 1)

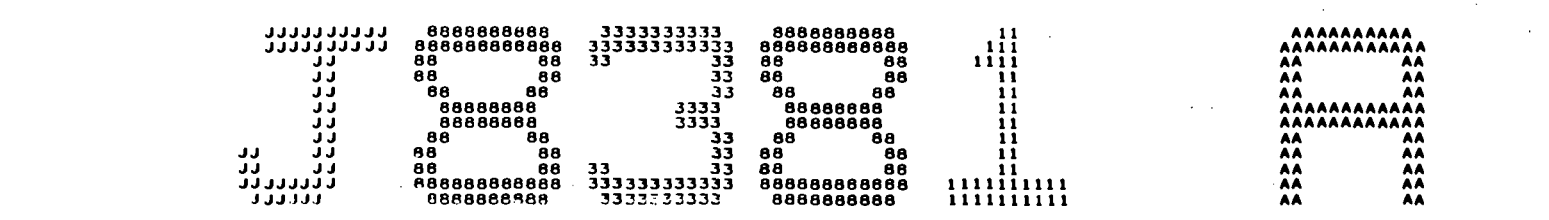
*** OCCIDENTAL SCCC - SULFUR IMPACT - 1975 ***

* SO MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	151.36057	1	27	200.0	40.0	26	79.39745	1	141	200.0	320.0
2	136.12534	1	31	200.0	50.0	27	77.98854	1	223	200.0	350.0
3	133.59875	1	32	200.0	60.0	28	77.90590	1	339	200.0	280.0
4	126.96773	1	27	200.0	50.0	29	77.80580	1	337	200.0	200.0
5	125.50865	1	80	200.0	30.0	30	75.97113	1	285	200.0	50.0
6	117.85632	1	28	200.0	50.0	31	75.95442	1	33	200.0	60.0
7	109.21596	1	146	200.0	10.0	32	75.03931	1	339	200.0	290.0
8	108.00909	1	228	200.0	10.0	33	73.86966	1	204	200.0	40.0
9	103.92584	1	287	200.0	300.0	34	73.36104	1	246	200.0	230.0
10	103.71747	1	332	200.0	250.0	35	73.33553	1	32	200.0	50.0
11	100.13068	1	40	200.0	70.0	36	73.07597	1	142	200.0	310.0
12	98.67380	1	160	200.0	40.0	37	72.99284	1	248	200.0	40.0
13	95.08154	1	248	200.0	30.0	38	72.86964	1	31	200.0	60.0
14	94.91919	1	235	200.0	360.0	39	71.73979	1	287	200.0	310.0
15	94.49388	1	236	200.0	360.0	40	71.30748	1	228	200.0	20.0
16	89.69510	1	219	200.0	40.0	41	71.19637	1	295	200.0	210.0
17	87.88503	1	51	200.0	190.0	42	71.00682	1	142	200.0	320.0
18	87.62723	1	203	200.0	20.0	43	70.35269	1	205	200.0	350.0
19	85.16801	1	107	200.0	50.0	44	70.31300	1	287	200.0	320.0
20	84.97229	1	1	200.0	50.0	45	70.03383	1	302	200.0	230.0
21	84.74629	1	30	200.0	50.0	46	69.92908	1	245	200.0	10.0
22	83.16768	1	28	200.0	60.0	47	69.84833	1	288	200.0	320.0
23	81.98309	1	345	200.0	40.0	48	69.35765	1	141	200.0	330.0
24	81.69701	1	31	200.0	40.0	49	69.05418	1	349	200.0	220.0
25	79.55113	1	338	200.0	280.0	50	68.94408	1	321	200.0	200.0





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               SS        SS  UU        UU  LL           FF            UU        UU  RR        RR  77        77 66        66
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             SSSSSSSSS    UU        UU  LL           FFFFFFFF      UU        UU  RRRRRRRRRRRR       77      66666666666
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                   SS  UU        UU  LL           FF            UU        UU  RR     RR          77      66        66
        SS        SS  UU        UU  LL           FF            UU        UU  RR      RR         77      66        66
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                        JJ      88        88            33 88        88       11                     AA        AA
                        JJ       88      88              33 88      88        11                     AA        AA
                        JJ        88888888          3333     88888888         11                     AAAAAAAAAAAA
                        JJ        88888888          3333     88888888         11                     AAAAAAAAAAAA
                        JJ       88      88              33 88      88        11                     AA        AA
                  JJ    JJ      88        88            33 88        88       11                     AA        AA
                  JJ    JJ      88        88  33        33 88        88       11                     AA        AA
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*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*
*A START JOB 8381 SULFUR76 0001 0001 NER      OXY-SULFUR          80001046.002  12.38.35 AM 29 JAN 83 PRINTER3 SYS NER1 START  A*

                         ********************************************************************************
                         *                                                                              *
                         *         N.E.R.D.C. NEWS:   1/20/83  12:25:34                                 *
                         *                                                                              *
                         *         THE NERDC HAS MADE TWO ADDITIONAL USER PACKS, USER80 AND             *
                         *         USER81, AVAILABLE TO USERS.  THESE PACKS ARE 3380 DEVICES            *
                         *         AND REQUIRE DIFFERENT BLOCKSIZES THAN WERE USED FOR DATA             *
                         *         SETS ON THE 3350 USER PACKS.  ON JANUARY 30, THESE 3380              *
                         *         PACKS WILL BECOME THE DEFAULT DEVICES FOR NEW DATA SETS.             *
                         *         ALL USERS SHOULD READ MEMO 83020.001 FOR DETAILS ON 3380             *
                         *         DISK DRIVES.                                       (MCD)             *
                         *                                                                              *
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*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION) WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	0
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	1
NUMBER OF INPUT SOURCES	NSOURC =	5
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	36
NUMBER OF DISCRETE RECEPTORS	NXWYPT =	18
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =	.10000E 07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 =	0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 =	0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR =	10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET =	9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =	0.0
SURFACE STATION NO.	ISS =	93845
YEAR OF SURFACE DATA	ISY =	76
UPPER AIR STATION NO.	IUS =	13861
YEAR OF UPPER AIR DATA	IUY =	76
ALLOCATED DATA STORAGE	LIMIT =	43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT =	1781 WORDS

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00	.10000E 00
B	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00	.15000E 00
C	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00	.20000E 00
D	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00	.25000E 00
E	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00
F	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00	.30000E 00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.0	.0	.0	.0	.0	.0
B	.0	.0	.0	.0	.0	.0
C	.0	.0	.0	.0	.0	.0
D	.0	.0	.0	.0	.0	.0
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

200.0.

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***

(DEGREES)

10.0.	20.0.	30.0.	40.0.	50.0.	60.0.	70.0.	80.0.	90.0.	100.0.
110.0.	120.0.	130.0.	140.0.	150.0.	160.0.	170.0.	180.0.	190.0.	200.0.
210.0.	220.0.	230.0.	240.0.	250.0.	260.0.	270.0.	280.0.	290.0.	300.0.
310.0.	320.0.	330.0.	340.0.	350.0.	360.0.				

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-540.0.	550.0).	(-530.0.	560.0).	(-520.0.	570.0).	(-1970.0.	-740.0).	(-1900.0.	-820.0).
(-1840.0.	-900.0).	(-1770.0.	-970.0).	(-1700.0.	-1040.0).	(-1640.0.	-1120.0).	(-1570.0.	-1200.0).
(-1500.0.	-1270.0).	(-1440.0.	-1350.0).	(-1370.0.	-1420.0).	(-1300.0.	-1500.0).	(-1240.0.	-1570.0).
(-1170.0.	-1640.0).	(-1100.0.	-1720.0).	(-1040.0.	-1800.0).	(			

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	2	0	5	0.45000E-05	-30.0	0.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
2	2	0	5	0.45000E-05	-30.0	-80.0	0.0	4.00	0.0	80.00	0.0	0.0	0.0	0.0
3	2	0	5	0.63000E-04	-20.0	20.0	0.0	6.00	0.0	50.00	0.0	0.0	0.0	0.0
4	2	0	5	0.28000E-03	-40.0	0.0	0.0	4.00	0.0	20.00	0.0	0.0	0.0	0.0
5	0	0	5	0.50000E-01	-50.0	20.0	0.0	5.00	314.00	1.00	1.00	0.0	0.0	0.0

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
0.60100,0.25700,0.09400,0.03400,0.01400,

SETTLING VELOCITY(METERS/SEC) =
0.2030, 0.0500, 0.0120, 0.0030, 0.0010,

SURFACE REFLECTION COEFFICIENT =
0.23000,0.62000,0.76000,0.86000,0.90000,

N-DAY
366 DAYS
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.67523 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	9.96072
350.0 /	10.29448
340.0 /	9.22716
330.0 /	8.93131
320.0 /	8.12112
310.0 /	7.34634
300.0 /	6.31966
290.0 /	6.03413
280.0 /	5.36860
270.0 /	5.41318
260.0 /	5.86726
250.0 /	7.07079
240.0 /	7.76547
230.0 /	7.47052
220.0 /	5.61031
210.0 /	5.04270
200.0 /	5.12547
190.0 /	4.81530
180.0 /	5.03410
170.0 /	4.63812
160.0 /	4.49911
150.0 /	4.42533
140.0 /	4.61533
130.0 /	4.74633
120.0 /	4.81013
110.0 /	4.62683
100.0 /	4.58800
90.0 /	4.50237
80.0 /	4.84083
70.0 /	5.29888
60.0 /	7.15061
50.0 /	10.23696
40.0 /	11.67523
30.0 /	9.63591
20.0 /	8.94581
10.0 /	9.46566

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	- X -	- Y -	CON.	- X -	- Y -	CON.
-540.0	550.0	0.46772	-530.0	560.0	0.48542	-520.0	570.0	0.49993
-1970.0	-740.0	0.05837	-1900.0	-820.0	0.06228	-1840.0	-900.0	0.06413
-1770.0	-970.0	0.07622	-1700.0	-1040.0	0.09132	-1640.0	-1120.0	0.08903
-1570.0	-1200.0	0.09236	-1500.0	-1270.0	0.09446	-1440.0	-1350.0	0.08702
-1370.0	-1420.0	0.08797	-1300.0	-1500.0	0.09356	-1240.0	-1570.0	0.08714
-1170.0	-1640.0	0.06904	-1100.0	-1720.0	0.05517	-1040.0	-1800.0	0.05121

HIGH
3-HR
SGROUP# 1

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1976 ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 391.53906 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 0.0		200.0	
360.0 /	0.0	(0, 0)	266.70142	(55, 3)
350.0 /	0.0	(0, 0)	259.13281	(229, 2)
340.0 /	0.0	(0, 0)	206.17367	(243, 1)
330.0 /	0.0	(0, 0)	211.10085	(264, 1)
320.0 /	0.0	(0, 0)	245.30507	(128, 2)
310.0 /	0.0	(0, 0)	214.56964	(57, 2)
300.0 /	0.0	(0, 0)	278.33154	(241, 1)
290.0 /	0.0	(0, 0)	225.12213	(142, 1)
280.0 /	0.0	(0, 0)	218.02586	(176, 1)
270.0 /	0.0	(0, 0)	223.44276	(108, 1)
260.0 /	0.0	(0, 0)	230.86195	(306, 8)
250.0 /	0.0	(0, 0)	332.21875	(249, 8)
240.0 /	0.0	(0, 0)	315.32031	(297, 2)
230.0 /	0.0	(0, 0)	306.73071	(287, 1)
220.0 /	0.0	(0, 0)	266.66575	(18, 7)
210.0 /	0.0	(0, 0)	253.61728	(250, 2)
200.0 /	0.0	(0, 0)	246.59521	(70, 8)
190.0 /	0.0	(0, 0)	163.38428	(162, 2)
180.0 /	0.0	(0, 0)	201.10204	(262, 2)
170.0 /	0.0	(0, 0)	151.12369	(140, 8)
160.0 /	0.0	(0, 0)	192.16730	(236, 1)
150.0 /	0.0	(0, 0)	173.02594	(38, 8)
140.0 /	0.0	(0, 0)	155.67137	(246, 1)
130.0 /	0.0	(0, 0)	197.24615	(260, 8)
120.0 /	0.0	(0, 0)	164.25340	(198, 2)
110.0 /	0.0	(0, 0)	164.18277	(63, 7)
100.0 /	0.0	(0, 0)	210.42152	(247, 1)
90.0 /	0.0	(0, 0)	195.02655	(309, 7)
80.0 /	0.0	(0, 0)	227.64255	(124, 1)
70.0 /	0.0	(0, 0)	259.38745	(209, 1)
60.0 /	0.0	(0, 0)	309.97437	(190, 2)
50.0 /	0.0	(0, 0)	331.95190	(290, 2)
40.0 /	0.0	(0, 0)	391.53906	(206, 1)
30.0 /	0.0	(0, 0)	327.14399	(295, 2)
20.0 /	0.0	(0, 0)	266.42602	(113, 1)
10.0 /	0.0	(0, 0)	350.70117	(311, 8)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1976 ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 349.00269 AND OCCURRED AT (200.0, 10.0) *

DIRECTION / (DEGREES) /	0.0	RANGE (METERS) 200.0
360.0 /	0.0	(0. 0) 237.19513 (141. 2)
350.0 /	0.0	(0. 0) 237.68539 (96. 1)
340.0 /	0.0	(0. 0) 204.18766 (94. 2)
330.0 /	0.0	(0. 0) 208.49672 (94. 2)
320.0 /	0.0	(0. 0) 209.16551 (287. 1)
310.0 /	0.0	(0. 0) 201.71490 (271. 1)
300.0 /	0.0	(0. 0) 202.46971 (241. 2)
290.0 /	0.0	(0. 0) 228.72704 (15. 8)
280.0 /	0.0	(0. 0) 204.00609 (111. 2)
270.0 /	0.0	(0. 0) 191.09781 (176. 2)
260.0 /	0.0	(0. 0) 208.50452 (338. 7)
250.0 /	0.0	(0. 0) 256.27075 (249. 7)
240.0 /	0.0	(0. 0) 285.43570 (297. 1)
230.0 /	0.0	(0. 0) 303.82813 (118. 8)
220.0 /	0.0	(0. 0) 241.27643 (331. 1)
210.0 /	0.0	(0. 0) 230.86913 (100. 1)
200.0 /	0.0	(0. 0) 219.19266 (71. 2)
190.0 /	0.0	(0. 0) 165.37189 (324. 1)
180.0 /	0.0	(0. 0) 200.79286 (98. 2)
170.0 /	0.0	(0. 0) 148.24876 (261. 7)
160.0 /	0.0	(0. 0) 144.62018 (314. 2)
150.0 /	0.0	(0. 0) 145.31346 (236. 2)
140.0 /	0.0	(0. 0) 143.19408 (38. 8)
130.0 /	0.0	(0. 0) 174.91241 (309. 8)
120.0 /	0.0	(0. 0) 157.26553 (1. 8)
110.0 /	0.0	(0. 0) 145.77269 (1. 8)
100.0 /	0.0	(0. 0) 168.57632 (295. 7)
90.0 /	0.0	(0. 0) 184.05760 (308. 8)
80.0 /	0.0	(0. 0) 196.41933 (103. 1)
70.0 /	0.0	(0. 0) 232.28123 (286. 8)
60.0 /	0.0	(0. 0) 270.98105 (327. 8)
50.0 /	0.0	(0. 0) 327.78662 (290. 1)
40.0 /	0.0	(0. 0) 321.46704 (354. 2)
30.0 /	0.0	(0. 0) 307.47168 (191. 2)
20.0 /	0.0	(0. 0) 274.92354 (187. 1)
10.0 /	0.0	(0. 0) 349.00269 (312. 1)

*** OCCIDENTAL SCCC - 3-HR SULFUR IMPACT - 1976 ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	351.53906	1	256	200.0	40.0	26	285.55396	2	126	200.0	230.0
2	350.78117	8	311	200.0	10.0	27	284.42603	1	113	200.0	20.0
3	349.00269	1	312	200.0	10.0	28	284.08545	1	329	200.0	40.0
4	332.21875	8	249	200.0	250.0	29	283.09155	2	96	200.0	40.0
5	331.99198	2	288	200.0	50.0	30	281.46484	2	288	200.0	40.0
6	327.78662	1	240	200.0	50.0	31	283.43970	1	257	200.0	240.0
7	327.14380	2	288	200.0	30.0	32	280.66138	2	289	200.0	50.0
8	321.46704	2	354	200.0	40.0	33	278.33154	1	241	200.0	300.0
9	320.76636	2	312	200.0	10.0	34	276.09961	1	311	200.0	50.0
10	319.32031	2	257	200.0	240.0	35	275.57495	1	235	200.0	30.0
11	309.97437	2	150	200.0	60.0	36	274.92554	1	187	200.0	20.0
12	308.73071	1	287	200.0	230.0	37	274.36987	2	163	200.0	40.0
13	307.47168	2	191	200.0	30.0	38	274.22290	8	353	200.0	40.0
14	303.82813	8	116	200.0	230.0	39	273.99390	8	205	200.0	40.0
15	303.03589	1	36	200.0	10.0	40	270.79785	2	329	200.0	40.0
16	303.01563	2	36	200.0	10.0	41	270.58105	8	327	200.0	60.0
17	302.56470	2	287	200.0	230.0	42	268.91968	2	309	200.0	60.0
18	302.30371	2	153	200.0	40.0	43	268.77588	8	316	200.0	40.0
19	298.51221	8	270	200.0	50.0	44	268.70386	1	119	200.0	230.0
20	297.63110	1	163	200.0	40.0	45	267.71167	1	240	200.0	230.0
21	296.73462	8	79	200.0	50.0	46	267.04565	8	296	200.0	240.0
22	296.27075	7	249	200.0	250.0	47	266.94897	2	152	200.0	40.0
23	293.47974	8	265	200.0	40.0	48	266.78687	1	185	200.0	10.0
24	292.92188	1	288	200.0	40.0	49	266.68579	7	18	200.0	220.0
25	292.36865	8	2	200.0	50.0	50	266.48511	8	288	200.0	50.0

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 166.86951 AND OCCURRED AT (200.0, 50.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	86.34808 (55, 1)
350.0 /	94.25516 (365, 1)
340.0 /	114.09326 (263, 1)
330.0 /	84.45219 (164, 1)
320.0 /	78.95938 (178, 1)
310.0 /	70.29399 (241, 1)
300.0 /	90.97061 (241, 1)
290.0 /	62.49274 (142, 1)
280.0 /	63.79614 (176, 1)
270.0 /	51.01938 (252, 1)
260.0 /	58.29265 (345, 1)
250.0 /	100.99727 (249, 1)
240.0 /	113.62469 (297, 1)
230.0 /	97.17734 (287, 1)
220.0 /	58.14180 (59, 1)
210.0 /	46.72435 (100, 1)
200.0 /	61.82411 (71, 1)
190.0 /	58.48842 (324, 1)
180.0 /	64.69124 (262, 1)
170.0 /	55.85205 (262, 1)
160.0 /	47.95529 (314, 1)
150.0 /	43.08913 (9, 1)
140.0 /	53.41220 (246, 1)
130.0 /	55.74294 (261, 1)
120.0 /	55.33714 (1, 1)
110.0 /	63.48360 (276, 1)
100.0 /	61.18275 (276, 1)
90.0 /	53.37473 (21, 1)
80.0 /	44.72423 (23, 1)
70.0 /	51.02922 (31, 1)
60.0 /	104.81760 (289, 1)
50.0 /	166.86951 (289, 1)
40.0 /	139.33209 (329, 1)
30.0 /	81.11150 (315, 1)
20.0 /	110.78604 (35, 1)
10.0 /	114.47495 (36, 1)

HIGH
24-HR
SGROUP# 1

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY.PER.)	- X -	- Y -	CON.	(DAY.PER.)
-540.0	550.0	7.71545	(178, 1)	-530.0	560.0	7.66951	(178, 1)
-520.0	570.0	7.17760	(178, 1)	-1970.0	-740.0	1.05368	(338, 1)
-1900.0	-820.0	1.40107	(249, 1)	-1840.0	-900.0	1.77047	(249, 1)
-1770.0	-970.0	1.09644	(242, 1)	-1700.0	-1040.0	1.68904	(242, 1)
-1640.0	-1120.0	1.04868	(297, 1)	-1570.0	-1200.0	2.10843	(297, 1)
-1500.0	-1270.0	1.78057	(159, 1)	-1440.0	-1350.0	1.34963	(296, 1)
-1370.0	-1420.0	1.76715	(287, 1)	-1300.0	-1500.0	1.88001	(59, 1)
-1240.0	-1570.0	2.08860	(59, 1)	-1170.0	-1640.0	0.96866	(59, 1)
-1100.0	-1720.0	0.94931	(286, 1)	-1040.0	-1800.0	1.08224	(331, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 125.11166 AND OCCURRED AT (200.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS) 200.0
360.0 /	85.65659 (365, 1)
350.0 /	81.04784 (263, 1)
340.0 /	60.09703 (161, 1)
330.0 /	79.22142 (178, 1)
320.0 /	75.88029 (241, 1)
310.0 /	67.29692 (57, 1)
300.0 /	59.66100 (142, 1)
290.0 /	57.87711 (253, 1)
280.0 /	52.86827 (253, 1)
270.0 /	43.45366 (253, 1)
260.0 /	50.38115 (218, 1)
250.0 /	64.75511 (345, 1)
240.0 /	83.71042 (296, 1)
230.0 /	80.44456 (59, 1)
220.0 /	56.39671 (286, 1)
210.0 /	43.40764 (99, 1)
200.0 /	55.77834 (41, 1)
190.0 /	49.48087 (71, 1)
180.0 /	60.79933 (324, 1)
170.0 /	51.02779 (324, 1)
160.0 /	43.73764 (313, 1)
150.0 /	43.03560 (236, 1)
140.0 /	40.71005 (9, 1)
130.0 /	53.43614 (40, 1)
120.0 /	49.73885 (261, 1)
110.0 /	46.87776 (1, 1)
100.0 /	50.07750 (21, 1)
90.0 /	50.95683 (308, 1)
80.0 /	42.14830 (21, 1)
70.0 /	50.52223 (208, 1)
60.0 /	87.73683 (309, 1)
50.0 /	99.90218 (290, 1)
40.0 /	125.11166 (354, 1)
30.0 /	76.96678 (272, 1)
20.0 /	79.91649 (36, 1)
10.0 /	84.03043 (55, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	CON.	(DAY,PER.)	- X -	- Y -	CON.	(DAY,PER.)
-540.0	550.0	6.61170	(57, 1)	-530.0	560.0	5.58251	(164, 1)
-520.0	570.0	7.14583	(164, 1)	-1970.0	-740.0	0.62542	(306, 1)
-1900.0	-820.0	0.65891	(345, 1)	-1840.0	-900.0	0.84849	(292, 1)
-1770.0	-970.0	0.98558	(249, 1)	-1700.0	-1040.0	1.31853	(298, 1)
-1640.0	-1120.0	1.00839	(230, 1)	-1570.0	-1200.0	1.47104	(230, 1)
-1500.0	-1270.0	1.74897	(297, 1)	-1440.0	-1350.0	1.31524	(160, 1)
-1370.0	-1420.0	1.31031	(286, 1)	-1300.0	-1500.0	1.59826	(287, 1)
-1240.0	-1570.0	1.10605	(98, 1)	-1170.0	-1640.0	0.78276	(340, 1)
-1100.0	-1720.0	0.85951	(331, 1)	-1040.0	-1800.0	0.91454	(18, 1)

*** OCCIDENTAL SCCC - SULFUR IMPACT - 1976 ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	166.86951	1	289	200.0	50.0	26	83.39655	1	141	200.0	10.0
2	139.23209	1	329	200.0	40.0	27	81.55965	1	35	200.0	10.0
3	125.11166	1	354	200.0	40.0	28	81.11150	1	315	200.0	30.0
4	114.47495	1	36	200.0	10.0	29	81.04784	1	263	200.0	350.0
5	114.09326	1	263	200.0	340.0	30	80.81270	1	185	200.0	10.0
6	113.62469	1	297	200.0	240.0	31	80.44456	1	59	200.0	230.0
7	110.78604	1	35	200.0	20.0	32	79.91649	1	36	200.0	20.0
8	104.81760	1	289	200.0	60.0	33	79.22142	1	178	200.0	330.0
9	100.99727	1	249	200.0	250.0	34	78.95938	1	178	200.0	320.0
10	99.90318	1	290	200.0	50.0	35	78.05325	1	51	200.0	350.0
11	97.17734	1	287	200.0	230.0	36	77.98735	1	311	200.0	10.0
12	96.74709	1	201	200.0	40.0	37	77.79872	1	330	200.0	360.0
13	96.04852	1	163	200.0	40.0	38	77.24532	1	230	200.0	240.0
14	95.38173	1	152	200.0	40.0	39	76.96678	1	272	200.0	30.0
15	94.25516	1	365	200.0	350.0	40	75.88029	1	241	200.0	320.0
16	92.98517	1	206	200.0	40.0	41	75.33986	1	235	200.0	30.0
17	90.97061	1	241	200.0	300.0	42	75.28456	1	286	200.0	230.0
18	87.73683	1	309	200.0	60.0	43	73.46033	1	288	200.0	50.0
19	86.34808	1	55	200.0	360.0	44	72.67882	1	191	200.0	30.0
20	85.65659	1	365	200.0	360.0	45	71.56947	1	164	200.0	320.0
21	84.45219	1	164	200.0	330.0	46	70.30731	1	141	200.0	360.0
22	84.03043	1	55	200.0	10.0	47	70.29399	1	241	200.0	310.0
23	83.72118	1	312	200.0	10.0	48	69.56540	1	118	200.0	230.0
24	83.71042	1	296	200.0	240.0	49	69.48091	1	113	200.0	20.0
25	83.67552	1	288	200.0	40.0	50	69.41518	1	116	200.0	30.0