Anexo 10.2 Listado de la simulación SLAB:

```
problem input
 idspl =
            1
 ncalc =
 wms = .017031
 cps = 2170.00
 tbp = 239.72
 cmed0 =
             .20
 dhe = 1370840.
 cpsl = 4294.00
 rhosl = 682.80
 spb = 2132.52
 spc = -32.98
 ts = 239.15
 qs = 1.76
    = 100.00
 as
         300.
 tsd =
 qtis =
          .00
          .00
 hs =
 tav = 3600.00
 xffm = 5000.00
 zp(1) =
           .00
          1.50
 zp(2) =
 zp(3) =
          1.80
 zp(4) =
          9.00
 z0 = .020000
    = 10.00
    = 1.90
 ua
 ta
   = 301.00
 rh = 80.00
 stab = 6.00
release gas properties
 molecular weight of source gas (kg)
                                        -wms = 1.7031E-02
 vapor heat capacity, const. p. (j/kg-k)
                                        -cps = 2.1700E + 03
 temperature of source gas (k)
                                      -ts = 2.3972E + 02
 density of source gas (kg/m3)
                                     - \text{rhos} = 8.6582E-01
 boiling point temperature
                                    -tbp = 2.3972E + 02
 liquid mass fraction
                                 -\text{cmed0} = 0.0000E + 00
 liquid heat capacity (j/kg-k)
                                   -cpsl = 4.2940E + 03
 heat of vaporization (j/kg)
                                   -dhe = 1.3708E + 06
 liquid source density (kg/m3)
                                     - \text{rhosl} = 6.8280E + 02
 saturation pressure constant
                                     -spa = 1.0315E+01
 saturation pressure constant (k)
                                      -spb = 2.1325E + 03
 saturation pressure constant (k)
                                      - spc = -3.2980E + 01
spill characteristics
```

```
spill type
                            - idspl=
                                         1
 mass source rate (kg/s)
                                   -gs = 1.7600E + 00
 continuous source duration (s)
                                       -tsd = 3.0000E + 02
 continuous source mass (kg)
                                      -qtcs = 5.2800E + 02
 instantaneous source mass (kg)
                                       -qtis = 0.0000E + 00
                                -as = 1.0000E + 02
 source area (m2)
 vertical vapor velocity (m/s)
                                    -ws = 2.0328E-02
 source half width (m)
                                  -bs = 5.0000E + 00
 source height (m)
                                 -hs = 0.0000E + 00
 horizontal vapor velocity (m/s)
                                      -us = 0.0000E + 00
field parameters
 concentration averaging time (s)
                                       -tav = 3.6000E + 03
 mixing layer height (m)
                                   -hmx = 2.6000E + 02
 maximum downwind distrace (m)
                                          -xffm = 5.0000E+03
 concentration measurement height (m)
                                            -zp(1) = 0.0000E + 00
                       -zp(2) = 1.5000E + 00
                       -zp(3) = 1.8000E + 00
                       -zp(4) = 9.0000E + 00
ambient meteorological properties
 molecular weight of ambient air (kg)
                                         -wmae = 2.8617E-02
 heat capacity of ambient air at const p. (j/kg-k)- cpaa = 1.0225E+03
 density of ambient air (kg/m3)
                                      - \text{rhoa} = 1.1586E + 00
 ambient measurement height (m)
                                         -za = 1.0000E + 01
 ambient atmospheric pressure (pa=n/m2=j/m3) - pa = 1.0133E+05
 ambient wind speed (m/s)
                                    -ua = 1.9000E + 00
 ambient temperature (k)
                                    -ta = 3.0100E + 02
 relative humidity (percent)
                                    -rh = 8.0000E + 01
 ambient friction velocity (m/s)
                                     -uastr = 5.7620E-02
 atmospheric stability class value
                                       - stab = 6.0000E + 00
 inverse monin-obukhov length (1/m)
                                          -ala = 7.5307E-02
 surface roughness height (m)
                                      -z0 = 2.0000E-02
additional parameters
 sub-step multiplier
                                 - ncalc =
                                              1
 number of calculational sub-steps
                                        - nssm =
 acceleration of gravity (m/s2)
                                     -grav = 9.8067E + 00
 gas constant (j/mol- k)
                                 -rr = 8.3143E + 00
 von karman constant
                                  -xk = 4.1000E-01
1
instantaneous spatially averaged cloud parameters
       ZC
                  bb
                              bbx
                                    bx
                                                rho
                                                                 ua
```

-5.00E+00 0.00E+00 0.00E+00 5.00E+00 5.00E+00 5.00E+00 0.00E	+00 1.16E+00
3.01E+02 0.00E+00 0.00E+00 4.00E+00 0.00E+00 0.00E+00 4.00E+00 5.63E+00 5.63E+00 1.03	DE 01 112E + 00
-4.00E+00 0.00E+00 6.57E-01 5.05E+00 4.50E+00 5.63E+00 5.63E+00 1.03 2.95E+02 3.67E-01 4.26E-01	BE-01 1.13E+00
-3.00E+00 0.00E+00 1.12E+00 5.15E+00 4.51E+00 6.26E+00 6.26E+00 1.39	9E-01 1.12E+00
2.94E+02 3.10E-01 5.47E-01	7L-01 1.12L 1 00
-2.00E+00 0.00E+00 1.92E+00 6.24E+00 4.51E+00 6.89E+00 6.89E+00 1.52	2E-01 1.12E+00
2.93E+02 2.03E-01 6.98E-01	
-1.00E+00 0.00E+00 9.55E-01 6.88E+00 4.52E+00 7.52E+00 7.52E+00 7.38	BE-02 1.14E+00
2.96E+02 1.03E+00 5.22E-01	
-5.96E-08 0.00E+00 1.27E+00 6.99E+00 4.54E+00 8.15E+00 8.15E+00 7.52	2E-02 1.14E+00
2.96E+02 9.43E-01 5.89E-01	
1.00E+00 0.00E+00 1.54E+00 7.08E+00 4.56E+00 8.78E+00 8.77E+00 7.95	E-02 1.14E+00
2.96E+02 8.70E-01 6.40E-01	
2.00E+00 0.00E+00 1.83E+00 7.18E+00 4.60E+00 9.40E+00 9.40E+00 8.51	E-02 $1.14E+00$
2.96E+02 7.86E-01 6.89E-01	
3.00E+00 0.00E+00 2.23E+00 7.27E+00 4.64E+00 1.00E+01 1.00E+01 9.14	E-02 1.14E+00
2.95E+02 6.74E-01 7.50E-01	E 03 114E 00
4.00E+00 0.00E+00 3.09E+00 7.36E+00 4.64E+00 1.07E+01 1.07E+01 9.71	E-02 1.14E+00
2.95E+02 5.09E-01 8.60E-01 5.00E+00 0.00E+00 7.23E+00 8.10E+00 4.64E+00 1.13E+01 1.13E+01 9.28	DE 02 114E+00
2.95E+02 2.30E-01 1.22E+00)E-02 1.14E±00
5.10E+00 1.25E-03 1.65E+00 8.11E+00 4.64E+00 1.14E+01 1.14E+01 9.24	E-02 1 14E+00
2.95E+02 1.01E+00 6.66E-01	-L-02 1.14L 100
5.22E+00 5.17E-03 1.66E+00 8.12E+00 4.64E+00 1.16E+01 1.16E+01 9.19	0F-02 1.14F+00
2.95E+02 1.01E+00 6.68E-01	
5.37E+00 1.34E-02 1.67E+00 8.13E+00 4.64E+00 1.18E+01 1.18E+01 9.13	E-02 1.14E+00
2.95E+02 1.01E+00 6.70E-01	
5.54E+00 2.81E-02 1.69E+00 8.14E+00 4.64E+00 1.20E+01 1.20E+01 9.06	6E-02 1.14E+00
2.95E+02 1.01E+00 6.72E-01	
5.76E+00 5.29E-02 1.70E+00 8.15E+00 4.64E+00 1.22E+01 1.22E+01 8.98	E-02 1.14E+00
2.95E+02 1.01E+00 6.74E-01	
6.01E+00 9.27E-02 1.72E+00 8.16E+00 4.64E+00 1.26E+01 1.26E+01 8.88	E-02 1.14E+00
2.96E+02 1.00E+00 6.77E-01	
	6E-02 1.14E+00
2.96E+02 1.00E+00 6.81E-01	
6.68E+00 2.49E-01 1.77E+00 8.20E+00 4.64E+00 1.34E+01 1.34E+01 8.63	E-02 1.14E+00
2.96E+02 1.00E+00 6.85E-01	T 02 114F + 00
7.12E+00 3.90E-01 1.80E+00 8.22E+00 4.64E+00 1.40E+01 1.40E+01 8.46 2.96E+02 9.98E-01 6.91E-01	L-UZ 1.14E+UU
7.65E+00 5.97E-01 1.84E+00 8.25E+00 4.64E+00 1.46E+01 1.46E+01 8.27	/F-02 1 14F±00
2.96E+02 9.96E-01 6.97E-01 2.96E+02 9.96E-01 6.97E-01	L 04 1.17L T 00
8.29E+00 8.99E-01 1.89E+00 8.28E+00 4.64E+00 1.54E+01 1.54E+01 8.05	F-02 1.14F+00
2.96E+02 9.93E-01 7.05E-01	_ 0_
9.06E+00 1.32E+00 1.90E+00 8.30E+00 4.63E+00 1.64E+01 1.64E+01 7.71	E-02 1.14E+00
2.96E+02 1.03E+00 7.60E-01	
9.98E+00 1.88E+00 1.89E+00 8.31E+00 4.61E+00 1.76E+01 1.76E+01 7.36	5E-02 1.14E+00
2.96E+02 1.08E+00 8.32E-01	
1.11E+01 2.61E+00 1.86E+00 8.32E+00 4.59E+00 1.90E+01 1.90E+01 7.06	SE-02 1.14E+00
2.96E+02 1.15E+00 9.13E-01	
1.24E+01 3.53E+00 1.82E+00 8.33E+00 4.56E+00 2.06E+01 2.06E+01 6.78	3E-02 1.15E+00
2.96E+02 1.22E+00 1.00E+00	
1.40E+01 4.71E+00 1.77E+00 8.35E+00 4.54E+00 2.27E+01 2.26E+01 6.52	E-02 1.15E+00

2.96E+02 1.31E+00 1.10E+00	0.205 + 00	4.535 + 00	2.545 04	2.515 01	6.375.03	1.155 00
1.60E+01 6.17E+00 1.71E+00	8.38E+00	4.52E+00	2.51E+01	2.51E+01	6.2/E-02	1.15E+00
2.96E+02 1.40E+00 1.20E+00	0.435 + 00	4.405 + 00	2.005 01	2.005 04	6 025 02	1 155 00
1.83E+01 7.98E+00 1.66E+00	8.42E±00	4.49E+00	2.80E+01	2.80E+01	6.03E-02	1.15E±00
2.97E+02 1.49E+00 1.32E+00	0.475 . 00	4 475 . 00	2.455 . 04	2.455 . 04	5.7 05.03	4.455 . 00
2.11E+01 1.02E+01 1.61E+00	8.4/E+00	4.4/E+00	3.15E+01	3.15E + 01	5./8E-02	1.15E + 00
2.97E+02 1.60E+00 1.43E+00	0 === : 00	4.4==	2	2 === : 01	15 03	4.4==
2.44E+01 1.30E+01 1.56E+00	8.55E + 00	4.45E + 00	3.5/E+01	3.5/E+01	5.54E-02	1.15E + 00
2.97E+02 1.70E+00 1.55E+00						
2.84E+01 1.64E+01 1.52E+00	8.65E + 00	4.44E + 00	4.08E+01	4.08E+01	5.30E-02	1.15E + 00
2.97E+02 1.81E+00 1.68E+00	0.775 . 00	4 435 : 00	4.605 : 04	4.605 ; 04	E 05E 03	4.455 . 00
3.33E+01 2.05E+01 1.48E+00	8.//E+00	4.42E + 00	4.69E+01	4.69E+01	5.05E-02	1.15E+00
2.97E+02 1.93E+00 1.80E+00	0.035 . 00	4 405 - 00	- 425 : 04	- 425 : 64	4 005 03	4.4==
3.91E+01 2.55E+01 1.44E+00	8.93E+00	4.40E + 00	5.42E + 01	5.42E + 01	4.80E-02	1.15E + 00
2.97E+02 2.04E+00 1.93E+00	0.435 . 00	1 205 : 00	6 205 : 04	6 205 : 04	4 555 03	4.455 . 00
4.61E+01 3.16E+01 1.41E+00	9.13E+00	4.39E+00	6.30E+01	6.30E+01	4.55E-02	1.15E+00
2.98E+02 2.16E+00 2.06E+00	0.205 + 00	4 205 + 00	7.265 01	7.265 + 04	4 205 02	1 155 00
5.45E+01 3.90E+01 1.38E+00	9.38E+00	4.38E+00	7.36E+01	7.36E+01	4.28E-02	1.15E+00
2.98E+02 2.28E+00 2.19E+00	0.605 + 00	4.265 + 00	0.635 + 01	0.635 + 01	4.045.03	1 155 00
6.46E+01 4.80E+01 1.36E+00	9.69E+00	4.36E+00	8.63E+01	8.63E+01	4.01E-02	1.15E±00
2.98E+02 2.39E+00 2.32E+00 7.67E+01 5.87E+01 1.34E+00	1.015 + 01	4.2EE + 00	1 025 + 02	1.025 + 02	2 745 02	1 155 + 00
2.98E+02 2.51E+00 2.44E+00	1.016+01	4.33E±00	1.02E±02	1.02E±02	3./4E-UZ	1.156±00
9.14E+01 7.16E+01 1.33E+00	1 05E±01	4 34E±00	1 20E±02	1 20E±02	2 45E 02	1 15E±00
2.98E+02 2.62E+00 2.56E+00	1.03L T 0 1	4.34L±00	1.20LT02	1.20L T 02	3. 4 3L-02	1.13L±00
1.09E+02 8.69E+01 1.32E+00	1 11F±01	4 34F±00	1 42F±02	1 42F±02	3 17F-02	1 15F±00
2.99E+02 2.73E+00 2.68E+00	1.116 101	T.5TL 00	1.726 1 02	1.726 1 02	J.17L-02	1.136 100
1.30E+02 1.05E+02 1.32E+00	1 17F+01	4 33F+00	1 69F+02	1 69F+02	2 89F-02	1 15F+00
2.99E+02 2.83E+00 2.80E+00	,	1.332 1 00	1.032 1 02	1.032 1 02	2.032 02	11132 1 00
1.55E+02 1.27E+02 1.32E+00	1.26F+01	4.33F+00	2.01F+02	2.01F+02	2.62F - 02	1.15F+00
2.99E+02 2.93E+00 2.90E+00						
1.86E+02 1.52E+02 1.32E+00	1.35E+01	4.32E+00	2.39E+02	2.39E+02	2.35E-02	1.15E+00
2.99E+02 3.02E+00 3.00E+00						
2.23E+02 1.82E+02 1.32E+00	1.47E+01	4.32E+00	2.85E+02	2.85E + 02	2.11E-02	1.15E+00
2.99E+02 3.11E+00 3.09E+00						
2.67E+02 2.18E+02 1.31E+00	1.61E+01	4.32E+00	3.41E+02	3.41E+02	1.89E-02	1.16E + 00
3.00E+02 3.18E+00 3.18E+00						
3.20E+02 2.59E+02 1.30E+00	1.78E + 01	4.31E + 00	4.07E + 02	4.07E + 02	1.69E-02	1.16E + 00
3.00E+02 3.25E+00 3.25E+00						
3.84E+02 2.59E+02 1.30E+00	1.98E + 01	4.31E+00	4.88E + 02	4.88E + 02	1.52E-02	1.16E + 00
3.00E+02 3.25E+00 3.25E+00						
4.60E+02 2.59E+02 1.30E+00	2.22E+01	4.31E+00	4.88E+02	4.88E+02	1.36E-02	1.16E + 00
3.00E+02 3.25E+00 3.25E+00						
5.52E+02 2.59E+02 1.30E+00	2.51E+01	4.31E+00	4.89E + 02	4.88E+02	1.20E-02	1.16E + 00
3.00E+02 3.25E+00 3.25E+00						
6.63E+02 2.59E+02 1.30E+00	2.84E + 01	4.31E+00	4.90E + 02	4.88E + 02	1.06E-02	1.16E + 00
3.00E+02 3.25E+00 3.25E+00						
7.96E+02 2.59E+02 1.30E+00	3.24E + 01	4.31E+00	4.92E + 02	4.88E + 02	9.24E-03	1.16E + 00
3.00E+02 3.25E+00 3.25E+00	2.745	1315 **	4.005	4.005	0.0== ==	4.465
9.56E+02 2.59E+02 1.30E+00	3./1E+01	4.31E+00	4.93E + 02	4.88E + 02	8.05E-03	1.16E+00
3.00E+02 3.25E+00 3.25E+00	4.265 + 04	4.245 + 0.0	4.055 + 02	4.005 + 03	C 00E 03	1 165 + 00
1.15E+03 2.59E+02 1.30E+00	4.26E+01	4.31E+00	4.95E+02	4.88E+02	6.98E-03	1.16E+00
3.00E+02 3.25E+00 3.25E+00						

```
1.38E+03 2.59E+02 1.30E+00 4.90E+01 4.31E+00 4.97E+02 4.88E+02 6.04E-03 1.16E+00
3.01F+02 3.25F+00 3.25F+00
1.66E+03 2.59E+02 1.30E+00 5.65E+01 4.31E+00 4.99E+02 4.88E+02 5.21E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
1.99E+03 2.59E+02 1.30E+00 6.51E+01 4.31E+00 5.03E+02 4.88E+02 4.48E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
2.39E+03 2.59E+02 1.31E+00 7.52E+01 4.31E+00 5.06E+02 4.88E+02 3.85E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
2.88E+03 2.59E+02 1.31E+00 8.67E+01 4.31E+00 5.10E+02 4.88E+02 3.30E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
3.46E+03 2.59E+02 1.31E+00 1.00E+02 4.31E+00 5.16E+02 4.88E+02 2.83E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
4.16E+03 2.59E+02 1.32E+00 1.15E+02 4.31E+00 5.22E+02 4.88E+02 2.42E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
5.00E+03 2.59E+02 1.32E+00 1.32E+02 4.31E+00 5.29E+02 4.88E+02 2.07E-03 1.16E+00
3.01E+02 3.25E+00 3.25E+00
          cmv cmda cmw cmwv wc vg
                                               ug
-5.00E + 00 \ 0.00E + 00 \ 0.00E + 00 \ 9.80E - 01 \ 1.98E - 02 \ 1.98E - 02 \ 0.00E + 00 \ 0.00E + 00 \ 0.00E + 00 \ 9.25E - 01
3.84E-02\ 0.00E+00
-4.00E+00 6.37E-02 6.37E-02 9.18E-01 1.85E-02 1.78E-02 0.00E+00 0.00E+00 0.00E+00 6.20E-02
9.86F-03 1.01F-01
-3.00E+00 8.78E-02 8.78E-02 8.94E-01 1.80E-02 1.66E-02 0.00E+00 0.00E+00 0.00E+00 4.32E-02
2.38E-02 1.21E-01
-2.00E+00 9.67E-02 9.67E-02 8.85E-01 1.78E-02 1.62E-02 0.00E+00 0.00E+00 0.00E+00 4.66E-02
4.66E-02 1.50E-01
-1.00E+00 4.53E-02 4.53E-02 9.36E-01 1.89E-02 1.87E-02 0.00E+00 0.00E+00 0.00E+00 1.44E-01
4.63E-02 1.15E-01
-5.96E-08 4.62E-02 4.62E-02 9.35E-01 1.88E-02 1.86E-02 0.00E+00 0.00E+00 0.00E+00 9.40E-02
3.33E-02 1.27E-01
1.00E+00 4.89E-02 4.89E-02 9.32E-01 1.88E-02 1.85E-02 0.00E+00 0.00E+00 0.00E+00 6.71E-02
2.38E-02 1.37E-01
2.00E+00 5.24E-02 5.24E-02 9.29E-01 1.87E-02 1.83E-02 0.00E+00 0.00E+00 0.00E+00 4.81E-02
1.59E-02 1.47E-01
3.00E+00 5.65E-02 5.65E-02 9.25E-01 1.86E-02 1.81E-02 0.00E+00 0.00E+00 0.00E+00 3.45E-02
1.60E-02 1.59E-01
4.00E+00 6.02E-02 6.02E-02 9.21E-01 1.86E-02 1.80E-02 0.00E+00 0.00E+00 0.00E+00 3.11E-02
3.53E-02 1.83E-01
5.00E+00 5.74E-02 5.74E-02 9.24E-01 1.86E-02 1.81E-02 0.00E+00 0.00E+00 0.00E+00 5.38E-02
9.05E-02 2.59E-01
5.10E+00 5.71E-02 5.71E-02 9.24E-01 1.86E-02 1.81E-02 2.16E-02 0.00E+00 0.00E+00 3.62E-02
3.30E-02 1.41E-01
5.22E+00 5.68E-02 5.68E-02 9.25E-01 1.86E-02 1.81E-02 4.34E-02 0.00E+00 0.00E+00 3.62E-02
3.28E-02 1.42E-01
5.37E+00 5.64E-02 5.64E-02 9.25E-01 1.86E-02 1.81E-02 6.93E-02 0.00E+00 0.00E+00 3.62E-02
3.26E-02 1.43E-01
5.54E+00 5.60E-02 5.60E-02 9.25E-01 1.86E-02 1.82E-02 1.00E-01 0.00E+00 0.00E+00 3.63E-02
5.76E+00 5.55E-02 5.55E-02 9.26E-01 1.87E-02 1.82E-02 1.36E-01 0.00E+00 0.00E+00 3.66E-02
3.21E-02 1.47E-01
```

6.01E+00 5.48E-02	5.48E-02	9.27E-01	1.87E-02	1.82E-02	1.78E-01	0.00E + 00	0.00E + 00	3.70E-02
3.17E-02 1.50E-01 6.32E+00 5.41E-02	5.41F-02	9.27F-01	1.87F-02	1.82F-02	2.28F-01	0.00F+00	0.00F+00	3.76F-02
3.13E-02 1.56E-01	52 02	3.2.2 0.			_,	0.002 . 00	0.002 . 00	3.7 02 02
6.68E+00 5.32E-02	5.32E-02	9.28E-01	1.87E-02	1.83E-02	2.85E-01	0.00E + 00	0.00E + 00	3.82E-02
3.08E-02 1.63E-01								
7.12E+00 5.22E-02	5.22E-02	9.29E-01	1.87E-02	1.83E-02	3.52E-01	0.00E + 00	0.00E + 00	3.89E-02
3.03E-02 1.74E-01								
7.65E+00 5.09E-02	5.09E-02	9.30E-01	1.87E-02	1.84E-02	4.27E-01	0.00E + 00	0.00E + 00	3.96E-02
2.96E-02 1.88E-01								
8.29E+00 4.95E-02	4.95E-02	9.32E-01	1.88E-02	1.85E-02	5.12E-01	0.00E + 00	0.00E + 00	4.02E-02
2.89E-02 2.06E-01								
9.06E+00 4.74E-02	4.74E-02	9.34E-01	1.88E-02	1.86E-02	5.98E-01	0.00E + 00	0.00E + 00	6.07E-02
2.81E-02 2.33E-01								
9.98E+00 4.52E-02	4.52E-02	9.36E-01	1.89E-02	1.87E-02	6.84E-01	0.00E + 00	0.00E + 00	4.60E-02
2.75E-02 2.62E-01								
1.11E+01 4.32E-02	4.32E-02	9.38E-01	1.89E-02	1.88E-02	7.77E-01	0.00E + 00	0.00E + 00	3.61E-02
2.73E-02 2.90E-01	4.455.00	0.405.04	1 005 03	1 005 03	0.745.01	0.005 + 00	0.005 + 00	2.015.02
1.24E+01 4.15E-02	4.15E-02	9.40E-01	1.89E-02	1.89E-02	8./4E-01	0.00E+00	0.00E+00	2.91E-02
2.74E-02 3.16E-01 1.40E+01 3.99E-02	2 005 02	0.41E.01	1 005 02	1 905 02	0.745.01	0.005 ± 00	0.005 ± 00	2.405.02
2.79F-02 3.40F-01	3.33E-02	9. 4 1E-01	1.906-02	1.09E-02	9.74E-UT	0.00E±00	0.00E ±00	2.40E-02
1.60E+01 3.83E-02	3 83E-03	0 /3F_01	1 90E-02	1 90F-02	1 08F±00	0.005±00	0.005±00	2 02E-02
2.87E-02 3.60E-01	J.0JL-02	J. TJL-01	1.50L-02	1.30L-02	1.001 100	0.001	0.001	Z.02L-02
1.83E+01 3.68E-02	3.68F-02	9 44F-01	1.90F-02	1.90F-02	1.19F+00	$0.00E \pm 00$	0.00F+00	1.71F-02
2.98E-02 3.76E-01	3.002 02	311.12.01				0.002 . 00	0.002 . 00	
2.11E+01 3.53E-02	3.53E-02	9.46E-01	1.91E-02	1.91E-02	1.30E+00	0.00E + 00	0.00E+00	1.46E-02
3.11E-02 3.89E-01								
2.44E+01 3.37E-02	3.37E-02	9.47E-01	1.91E-02	1.91E-02	1.41E+00	0.00E + 00	0.00E + 00	1.26E-02
3.27E-02 3.98E-01								
2.84E+01 3.22E-02	3.22E-02	9.49E-01	1.91E-02	1.91E-02	1.53E + 00	0.00E + 00	0.00E+00	1.08E-02
3.44E-02 4.04E-01								
3.33E+01 3.07E-02	3.07E-02	9.50E-01	1.91E-02	1.91E-02	1.65E + 00	0.00E + 00	0.00E + 00	9.34E-03
3.63E-02 4.06E-01					. = . =			
3.91E+01 2.91E-02	2.91E-02	9.52E-01	1.92E-02	1.92E-02	1.78E + 00	0.00E + 00	0.00E + 00	8.09E-03
3.84E-02 4.05E-01	2.765.02	0.525.04	1.025.02	1.025.02	1.005 + 00	0.005 + 00	0.005 + 00	7.045.03
4.61E+01 2.76E-02 4.05E-02 4.00E-01	2./6E-U2	9.53E-01	1.92E-02	1.92E-02	1.90E+00	U.UUE + UU	U.UUE+00	7.04E-03
4.03E-02 4.00E-01 5.45E+01 2.59E-02	2 59E-N2	Q 55E_N1	1 97E-N?	1 97E-02	2.01E±00	0.00E±00	0.00E±00	6 15E-02
4.27E-02 3.92E-01	2.JJL-UZ	J.JJL-U I	1.74L-UZ	1.74L-UZ	4.01L 00	0.00∟ 1 00	0.00L 00	0.136-03
6.46E+01 2.43E-02	2.43F-02	9.56F-01	1.93F-02	1.93F-02	2.12F+00	0.00F + 00	0.00F + 00	5.40F-03
4.48E-02 3.81E-01	V2	VI				2.002 1 00	1.002 1 00	22 03
7.67E+01 2.26E-02	2.26E-02	9.58E-01	1.93E-02	1.93E-02	2.22E+00	0.00E + 00	0.00E+00	4.75E-03
4.70E-02 3.65E-01								
9.14E+01 2.08E-02	2.08E-02	9.60E-01	1.93E-02	1.93E-02	2.30E+00	0.00E + 00	0.00E+00	4.17E-03
4.91E-02 3.44E-01								
1.09E+02 1.91E-02	1.91E-02	9.62E-01	1.94E-02	1.94E-02	2.37E+00	0.00E + 00	0.00E + 00	3.62E-03
5.11E-02 3.19E-01								
1.30E+02 1.74E-02	1.74E-02	9.63E-01	1.94E-02	1.94E-02	2.43E+00	0.00E + 00	0.00E+00	3.09E-03
5.30E-02 2.88E-01								
1.55E+02 1.57E-02	1.57E-02	9.65E-01	1.94E-02	1.94E-02	2.47E+00	0.00E + 00	0.00E + 00	2.56E-03
5.48E-02 2.51E-01	4 44 = ==	0.665	4.0== ==	4.0== ==	2.505 **	0.005	0.005	2015
1.86E+02 1.41E-02	1.41E-02	9.66E-01	1.95E-02	1.95E-02	2.50E+00	0.00E + 00	0.00E + 00	2.01E-03

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5.63E-02 2.07E-01
2.23F+02 1.27F-02 1.27F-02 9.68F-01 1.95F-02 1.95F-02 2.53F+00 0.00F+00 0.00F+00 1.42F-03
5.77E-02 1.56E-01
2.67E+02 1.13E-02 1.13E-02 9.69E-01 1.95E-02 1.95E-02 2.56E+00 0.00E+00 0.00E+00 7.57E-04
5.88E-02 1.00E-01
3.20E+02 1.02E-02 1.02E-02 9.70E-01 1.95E-02 1.95E-02 2.60E+00 0.00E+00 0.00E+00 1.16E-05
5.95E-02 6.56E-02
3.84E+02 9.12E-03 9.12E-03 9.71E-01 1.96E-02 1.96E-02 2.66E+00 0.00E+00 0.00E+00 1.16E-05
5.89E-02 6.56E-02
4.60E+02 8.12E-03 8.12E-03 9.72E-01 1.96E-02 1.96E-02 2.70E+00 0.00E+00 0.00E+00 1.16E-05
5.82F-02 1.73F-02
5.52E+02 7.18E-03 7.18E-03 9.73E-01 1.96E-02 1.96E-02 2.74E+00 0.00E+00 0.00E+00 1.16E-05
5.74E-02 1.73E-02
6.63E+02 6.31E-03 6.31E-03 9.74E-01 1.96E-02 1.96E-02 2.78E+00 0.00E+00 0.00E+00 1.16E-05
5.64E-02 1.73E-02
7.96E+02 5.52E-03 5.52E-03 9.75E-01 1.96E-02 1.96E-02 2.81E+00 0.00E+00 0.00E+00 1.16E-05
5.54E-02 1.72E-02
9.56E+02 4.81E-03 4.81E-03 9.76E-01 1.97E-02 1.97E-02 2.84E+00 0.00E+00 0.00E+00 1.16E-05
5.41E-02 1.72E-02
1.15E+03 4.17E-03 4.17E-03 9.76E-01 1.97E-02 1.97E-02 2.86E+00 0.00E+00 0.00E+00 1.17E-05
5.28E-02 1.72E-02
1.38E+03 3.60E-03 3.60E-03 9.77E-01 1.97E-02 1.97E-02 2.88E+00 0.00E+00 0.00E+00 1.17E-05
5.13E-02 1.71E-02
1.66E+03 3.11E-03 3.11E-03 9.77E-01 1.97E-02 1.97E-02 2.91E+00 0.00E+00 0.00E+00 1.17E-05
4.96E-02 1.70E-02
1.99E+03 2.67E-03 2.67E-03 9.78E-01 1.97E-02 1.97E-02 2.93E+00 0.00E+00 0.00E+00 1.17E-05
4.78E-02 1.70E-02
2.39E+03 2.29E-03 2.29E-03 9.78E-01 1.97E-02 1.97E-02 2.95E+00 0.00E+00 0.00E+00 1.17E-05
4.59E-02 1.69E-02
2.88E+03 1.97E-03 1.97E-03 9.78E-01 1.97E-02 1.97E-02 2.97E+00 0.00E+00 0.00E+00 1.17E-05
4.39E-02 1.68E-02
3.46E+03 1.68E-03 1.68E-03 9.79E-01 1.97E-02 1.97E-02 2.99E+00 0.00E+00 0.00E+00 1.18E-05
4.17F-02 1.66F-02
4.16E+03 1.44E-03 1.44E-03 9.79E-01 1.97E-02 1.97E-02 3.00E+00 0.00E+00 0.00E+00 1.18E-05
3.96E-02 1.65E-02
5.00E+03 1.23E-03 1.23E-03 9.79E-01 1.97E-02 1.97E-02 3.02E+00 0.00E+00 0.00E+00 1.19E-05
3.73E-02 1.63E-02
time averaged (tav = 3600. s) volume concentration: concentration contour parameters
c(x,y,z,t) = cc(x) * (erf(xa)-erf(xb)) * (erf(ya)-erf(yb)) * (exp(-za*za)+exp(-zb*zb))
 c(x,y,z,t) = concentration (volume fraction) at (x,y,z,t)
     x = downwind distance (m)
     v = crosswind horizontal distance (m)
     z = height (m)
     t = time(s)
    erf = error function
    xa = (x-xc+bx)/(sr2*betax)
```

```
ya = (y+b)/(sr2*betac)
    yb = (y-b)/(sr2*betac)
    exp = exponential function
    za = (z-zc)/(sr2*sig)
    zb = (z+zc)/(sr2*sig)
    sr2 = sqrt(2.0)
  x = cc(x) = b(x) = betac(x) = zc(x) = sig(x)
                                       t xc(t) bx(t) betax(t)
-5.00E+00 0.00E+00 4.50E+00 1.26E+00 0.00E+00 0.00E+00
                                                               7.19E+00 \ 0.00E+00 \ 5.00E+00
4.08E-02
-4.00E+00 1.99E-02 4.50E+00 1.32E+00 0.00E+00 3.79E-01
                                                               7.80E+00 5.00E-01 5.63E+00
4.60E-02
-3.00E+00 2.75E-02 4.51E+00 1.44E+00 0.00E+00 6.45E-01
                                                              8.41E+00 1.00E+00 6.26E+00
5.11F-02
-2.00E+00 3.64E-02 4.51E+00 2.49E+00 0.00E+00 1.11E+00
                                                               9.21E+00 1.50E+00 6.89E+00
5.62E-02
-1.00E+00 1.94E-02 4.52E+00 3.00E+00 0.00E+00 5.51E-01
                                                              1.00E+01 2.00E+00 7.52E+00
6.14E-02
-5.96E-08 2.00E-02 4.54E+00 3.07E+00 0.00E+00 7.31E-01
                                                              1.10E+01 2.50E+00 8.15E+00
6.65E-02
1.00E+00 2.13E-02 4.56E+00 3.13E+00 0.00E+00 8.87E-01
                                                              1.21E+01 3.00E+00 8.77E+00
7.16E-02
2.00E+00 2.30E-02 4.60E+00 3.19E+00 0.00E+00 1.05E+00
                                                               1.36E+01 3.50E+00 9.40E+00
7.68E-02
3.00E+00 2.48E-02 4.64E+00 3.25E+00 0.00E+00 1.29E+00
                                                               1.51E+01 4.00E+00 1.00E+01
8.19E-02
                                                              1.91E+01 4.50E+00 1.07E+01
4.00E+00 2.67E-02 4.64E+00 3.31E+00 0.00E+00 1.78E+00
8.71E-02
5.00E+00 2.81E-02 4.64E+00 3.85E+00 0.00E+00 4.17E+00
                                                               2.32E+01 5.00E+00 1.13E+01
9.22E-02
5.10E+00 2.80E-02 4.64E+00 3.86E+00 1.25E-03 9.54E-01
                                                              2.34E+01 5.10E+00 1.14E+01
9.33E-02
5.22E+00 2.79E-02 4.64E+00 3.86E+00 5.17E-03 9.57E-01
                                                              2.37E+01 5.22E+00 1.16E+01
9.45E-02
5.37E+00 2.79E-02 4.64E+00 3.87E+00 1.34E-02 9.59E-01
                                                              2.40E+01 5.37E+00 1.18E+01
9.60F-02
5.54E+00 2.80E-02 4.64E+00 3.88E+00 2.81E-02 9.58E-01
                                                              2.43E+01 5.54E+00 1.20E+01
9.78E-02
5.76E+00 2.82E-02 4.64E+00 3.89E+00 5.29E-02 9.52E-01
                                                              2.47E+01 5.76E+00 1.22E+01
1.00E-01
6.01E+00 2.86E-02 4.64E+00 3.90E+00 9.27E-02 9.40E-01
                                                              2.53E+01 6.01E+00 1.26E+01
1.03E-01
6.32E+00 2.94E-02 4.64E+00 3.91E+00 1.55E-01 9.17E-01
                                                              2.59E+01 6.32E+00 1.29E+01
1.06F-01
6.68E+00 3.08E-02 4.64E+00 3.93E+00 2.49E-01 8.78E-01
                                                              2.66E+01 6.68E+00 1.34E+01
1.09E-01
7.12E+00 3.32E-02 4.64E+00 3.94E+00 3.90E-01 8.16E-01
                                                              2.75E+01 7.12E+00 1.40E+01
                                                              2.85E+01 7.65E+00 1.46E+01
7.65E+00 3.78E-02 4.64E+00 3.96E+00 5.97E-01 7.20E-01
1.19E-01
```

xb = (x-xc-bx)/(sr2*betax)

8.29E+00 4.75E-02 4.64E+00 3.99E+0	0 8.99E-01 5.74E-01	2.98E+01 8.29E+00 1.54E+01
9.06F+00 4.80F-02 4.63F+00 4.01F+0	0 1 32F+00 5 49F-01	3.13F+01 9.06F+00 1.64F+01
1.34E-01	0 1.322 1 00 3.432 01	3.13E 01 3.00E 00 1.04E 01
9.98E+00 4.61E-02 4.61E+00 4.03E+0	0 1.88E+00 5.46E-01	3.31E+01 9.98E+00 1.76E+01
1.43E-01		
1.11E+01 4.45E-02 4.59E+00 4.05E+0	0 2.61E+00 5.37E-01	3.51E+01 1.11E+01 1.90E+01
1.55E-01		
1.24E+01 4.31E-02 4.56E+00 4.07E+0	0 3.53E+00 5.24E-01	3.73E+01 1.24E+01 2.06E+01
1.68E-01	0 4715 00 5 105 01	2.005 01 1.405 01 2.265 01
1.40E+01 4.18E-02 4.54E+00 4.10E+0	0 4.71E±00 5.10E-01	3.99E+01 1.40E+01 2.26E+01
1.60E+01 4.06E-02 4.52E+00 4.14E+0	0 6 17F±00 4 94F-01	4.27E+01 1.60E+01 2.51E+01
2.05E-01	0 0.172 00 1.512 01	1.272 01 1.002 01 2.512 01
1.83E+01 3.95E-02 4.49E+00 4.19E+0	0 7.98E+00 4.79E-01	4.59E+01 1.83E+01 2.80E+01
2.29E-01		
2.11E+01 3.85E-02 4.47E+00 4.25E+0	0 1.02E+01 4.64E-01	4.95E+01 2.11E+01 3.15E+01
2.57E-01		
2.44E+01 3.75E-02 4.45E+00 4.33E+0	0 1.30E+01 4.50E-01	5.36E+01 2.44E+01 3.57E+01
2.92E-01 2.84E+01 3.66E-02 4.44E+00 4.44E+0	0 1 645 01 4 205 01	5.81F+01 2.84F+01 4.08F+01
2.84E+01 3.86E-02 4.44E+00 4.44E+0	U 1.04E+U1 4.36E-U1	3.81E+01 2.84E+01 4.08E+01
3.33E+01 3.58E-02 4.42E+00 4.57E+0	0 2 05E+01 4 26E-01	6.33F+01 3.33F+01 4.69F+01
3.83E-01	2.032 01 11202 01	0.332 0.1 3.332 0.1 11032 0.1
3.91E+01 3.51E-02 4.40E+00 4.74E+0	0 2.55E+01 4.15E-01	6.92E+01 3.91E+01 5.42E+01
4.42E-01		
4.61E+01 3.44E-02 4.39E+00 4.94E+0	0 3.16E+01 4.06E-01	7.58E+01 4.61E+01 6.30E+01
5.14E-01	0. 3.005 + 04. 3.005 04	0.245 + 04 - 5.455 + 04 - 7.265 + 04
5.45E+01 3.39E-02 4.38E+00 5.20E+0 6.01E-01	0 3.90E+01 3.99E-01	8.34E+01 5.45E+01 7.36E+01
6.46E+01 3.34E-02 4.36E+00 5.53E+0	0 4 80F±01 3 92F-01	9.21E+01 6.46E+01 8.63E+01
7.04E-01	0 4.00E 01 3.32E 01	3.21E 01 0.40E 01 0.03E 01
7.67E+01 3.31E-02 4.35E+00 5.93E+0	0 5.87E+01 3.87E-01	1.02E+02 7.67E+01 1.02E+02
8.30E-01		
9.14E+01 3.28E-02 4.34E+00 6.43E+0	0 7.16E+01 3.84E-01	1.13E+02 9.14E+01 1.20E+02
9.80E-01		
1.09E+02 3.27E-02 4.34E+00 7.04E+0	0 8.69E+01 3.82E-01	1.26E+02 1.09E+02 1.42E+02
1.16E+00 1.30E+02 3.27E-02 4.33E+00 7.79E+0	0 1.05E±02 3.81E-01	1.42E+02 1.30E+02 1.69E+02
1.38E+00	0 1.03E 102 3.01E-01	1.426 02 1.306 02 1.036 02
1.55E+02 3.28E-02 4.33E+00 8.70E+0	0 1.27E+02 3.80E-01	1.59E+02 1.55E+02 2.01E+02
1.64E+00		
1.86E+02 3.30E-02 4.32E+00 9.82E+0	0 1.52E+02 3.81E-01	1.80E+02 1.86E+02 2.39E+02
1.95E+00		
2.23E+02 3.34E-02 4.32E+00 1.12E+0	1 1.82E+02 3.80E-01	2.04E+02 2.23E+02 2.85E+02
2.33E+00 2.67E+02 3.41E-02 4.32E+00 1.28E+0	1 2 19E±02 2 70E 01	2.32E+02 2.67E+02 3.41E+02
2.67E+02 3.41E-02 4.32E+00 1.28E+0 2.78E+00	ı ∠.10L⊤UZ J./JE•U1	2.32L T U
3.20E+02 3.51E-02 4.31E+00 1.47E+0	1 2.59E+02 3.74E-01	2.65E+02 3.20E+02 4.07E+02
3.33E+00		
3.84E+02 3.64E-02 4.31E+00 1.70E+0	1 2.59E+02 3.74E-01	3.04E+02 3.84E+02 4.88E+02
3.98E+00		
4.60E+02 3.77E-02 4.31E+00 1.98E+0	1 2.59E+02 3.74E-01	3.24E+02 4.60E+02 4.88E+02

```
1.67E + 01
5.52F+02 3.89F-02 4.31F+00 2.31F+01 2.59F+02 3.74F-01
                                                              3.52F+02 5.52F+02 4.88F+02
6.63E+02 4.00E-02 4.31E+00 2.71E+01 2.59E+02 3.74E-01
                                                              3.86E+02 6.63E+02 4.88E+02
2.99E + 01
7.96E+02 4.11E-02 4.31E+00 3.17E+01 2.59E+02 3.75E-01
                                                              4.27E+02 7.96E+02 4.88E+02
3.60F + 01
9.56E+02 4.21E-02 4.31E+00 3.72E+01 2.59E+02 3.75E-01
                                                              4.76E+02 9.56E+02 4.88E+02
4.21E + 01
1.15E+03 4.29E-02 4.31E+00 4.36E+01 2.59E+02 3.75E-01
                                                              5.35E+02 1.15E+03 4.88E+02
4.85F + 01
1.38E+03 4.37E-02 4.31E+00 5.11E+01 2.59E+02 3.75E-01
                                                              6.07E+02 1.38E+03 4.88E+02
5.53E + 01
1.66E+03 4.43E-02 4.31E+00 5.99E+01 2.59E+02 3.76E-01
                                                              6.92E+02 1.66E+03 4.88E+02
6.24E + 01
1.99E+03 4.49E-02 4.31E+00 7.01E+01 2.59E+02 3.76E-01
                                                              7.95E+02 1.99E+03 4.88E+02
7.01E + 01
2.39E+03 4.54E-02 4.31E+00 8.19E+01 2.59E+02 3.77E-01
                                                              9.19E+02 2.39E+03 4.88E+02
7.83F + 01
2.88E+03 4.58E-02 4.31E+00 9.55E+01 2.59E+02 3.78E-01
                                                              1.07E+03 2.88E+03 4.88E+02
8.72F + 01
3.46E+03 4.61E-02 4.31E+00 1.11E+02 2.59E+02 3.79E-01
                                                              1.25E+03 3.46E+03 4.88E+02
9.68E + 01
4.16E+03 4.64E-02 4.31E+00 1.29E+02 2.59E+02 3.80E-01
                                                              1.46F + 03 \quad 4.16F + 03 \quad 4.88F + 02
1.07E + 02
                                                              1.72E+03 5.00E+03 4.88E+02
5.00E+03 4.66E-02 4.31E+00 1.50E+02 2.59E+02 3.82E-01
1.19E + 02
1
time averaged (tay = 3600. s) volume concentration: concentration in the z = .00 plane.
 downwind time of cloud effective
                                       average concentration (volume fraction) at (x,y,z)
                                      y/bbc= y/bbc= y/bbc= y/bbc= y/bbc=
 distance max conc duration half width
        (s)
               (s)
                   bbc (m)
                               0.0
                                    0.5
                                          1.0
                                                1.5
                                                      2.0
                                                            2.5
                                                  0.00E+00 0.00E+00 0.00E+00 0.00E+00
 -5.00E + 00
           1.52E + 02
                       3.00E+02 5.00E+00
0.00E + 00 \quad 0.00E + 00
 -4.00E+00 1.52E+02 3.00E+02 5.05E+00
                                               1.33E-02 1.24E-02 4.50E-03 1.32E-04 1.49E-07
0.00E + 00
 -3.00E+00 1.51E+02 3.00E+02 5.15E+00
                                              1.83E-02 1.67E-02 6.00E-03 2.32E-04 5.24E-07
0.00E + 00
                                               2.26E-02 1.73E-02 5.91E-03 6.24E-04 1.66E-05
 -2.00E+00 1.51E+02 3.00E+02 6.24E+00
1.02F-07
 -1.00E+00 1.50E+02 3.00E+02 6.88E+00
                                               1.12E-02 8.24E-03 2.78E-03 3.42E-04 1.32E-05
1.50E-07
                                              1.15E-02 8.38E-03 2.83E-03 3.51E-04 1.40E-05
 -5.96E-08 1.50E+02 3.00E+02 6.99E+00
1.67E-07
 1.00E+00 1.50E+02 3.00E+02 7.09E+00
                                              1.21E-02 8.85E-03 2.98E-03 3.74E-04 1.52E-05
1.88E-07
 2.00E+00 1.51E+02 3.00E+02 7.19E+00
                                              1.30E-02 9.46E-03 3.19E-03 4.02E-04 1.66E-05
2.10E-07
 3.00E+00 1.51E+02 3.00E+02 7.29E+00
                                               1.40E-02 1.01E-02 3.42E-03 4.33E-04 1.81E-05
```

2.35E-07

	3.00E+02	7.38E+00	1.49E-02 1.08E-02 3.62E-03 4.64E-04 2.00E-05
2.72E-07	2.005 + 02	0.135 00	1 445 02 1 025 02 2 405 02 4 675 04 2 405 05
5.00E+00 1.52E+02 3 4.40E-07	3.00E+02	8.13E+00	1.44E-02 1.02E-02 3.40E-03 4.67E-04 2.40E-05
	3.00E+02	8.14E+00	1.43E-02 1.02E-02 3.39E-03 4.65E-04 2.40E-05
4.40E-07	J.00E 1 02	0.146 1 00	1.150 02 1.020 02 5.550 05 4.050 04 2.100 05
	3.00E+02	8.14E+00	1.43E-02 1.02E-02 3.38E-03 4.64E-04 2.39E-05
4.40E-07			
5.37E+00 1.52E+02 3	3.00E + 02	8.15E + 00	1.43E-02 1.01E-02 3.37E-03 4.63E-04 2.39E-05
4.42E-07			
5.54E+00 1.52E+02 3	3.00E + 02	8.16E + 00	1.43E-02 1.01E-02 3.37E-03 4.64E-04 2.40E-05
4.44E-07			
	3.00E + 02	8.18E + 00	1.44E-02 1.02E-02 3.39E-03 4.66E-04 2.42E-05
4.49E-07	2.005 + 02	0.405 + 00	4.455.03.4.035.03.2.435.03.4.745.04.2.455.05
	3.00E+02	8.19E+00	1.45E-02 1.03E-02 3.42E-03 4.71E-04 2.45E-05
4.57E-07 6.32E+00 1.52E+02	3.00E+02	8.21E+00	1.47E-02 1.04E-02 3.47E-03 4.78E-04 2.50E-05
4.68E-07	J.UUE TUZ	0.416700	1.7/L-02 1.04L-02 3.4/E-03 4./6E-04 2.30E-03
	3.00E+02	8.23E+00	1.50E-02 1.06E-02 3.53E-03 4.87E-04 2.55E-05
4.81E-07	3.002 1 02	5.252 . 00	
	3.00E+02	8.26E+00	1.50E-02
4.87E-07			
7.65E+00 1.53E+02 3	3.00E + 02	8.29E+00	1.35E-02 9.53E-03 3.17E-03 4.39E-04 2.32E-05
4.44E-07			
	3.00E + 02	8.32E+00	6.98E-03 4.93E-03 1.64E-03 2.27E-04 1.21E-05
2.34E-07			
	3.00E + 02	8.34E + 00	1.31E-03 9.26E-04 3.07E-04 4.28E-05 2.29E-06
4.48E-08	2.005 + 02	0.265 00	5.005.05
9.98E+00 1.54E+02 3 2.09E-09	3.00E+02	8.36E+00	5.98E-05 4.22E-05 1.40E-05 1.95E-06 1.05E-07
	3.00E+02	8.38E+00	1.66E-07 1.17E-07 3.88E-08 5.43E-09 2.95E-10
5.93E-12	3.00L T 02	0.30L±00	1.00L-07 1.17L-07 3.00L-00 3.43L-03 2.33L-10
	3.00E+02	8.40E+00	2.86E-12 2.02E-12 6.69E-13 9.39E-14 5.15E-15
1.05E-16	3.002 . 02	302 . 33	2,002 12 2,022 12 0,032 13 3,032 11 3,132 13
1.40E+01 1.55E+02	3.00E+02	8.43E+00	6.38E-21 4.49E-21 1.49E-21 2.09E-22 1.16E-23
2.41E-25			
1.60E+01 1.56E+02	3.00E+02	8.47E + 00	3.04E-36 2.14E-36 7.09E-37 1.00E-37 5.61E-39
1.19E-40			
1.83E+01 1.57E+02	3.00E + 02	8.53E + 00	0.00E+00 $0.00E+00$ $0.00E+00$ $0.00E+00$
0.00E+00 0.00E+00	2.005 **	0.645 :	0.005 - 00 - 0.005 - 00 - 0.005
2.11E+01 1.58E+02	3.00E + 02	8.61E + 00	0.00E+00 $0.00E+00$ $0.00E+00$ $0.00E+00$
0.00E+00 0.00E+00 2.44E+01 1.60E+02	2 005 + 02	9 7 2F + 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00
2.44E+01 1.60E+02 0.00E+00 0.00E+00	3.00E+02	8.73E + 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00
2.84E+01 1.61E+02	3.00E+02	8.87E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00
$0.00E+00 \ 0.00E+00$	J.00L 02	0.07E T 00	5.00E 00
3.33E+01 1.63E+02	3.00E+02	9.06E+00	0.00E+00
0.00E+00 0.00E+00	· · · · · · · · · · · · · · · · · · ·		1 11 1111 12 11111 13 11111
3.91E+01 1.65E+02	3.00E+02	9.31E+00	0.00E+00 $0.00E+00$ $0.00E+00$ $0.00E+00$
0.00E+00 0.00E+00			
4.61E+01 1.68E+02	3.00E + 02	9.62E + 00	0.00E + 00 0.00E + 00 0.00E + 00 0.00E + 00
$0.00E+00 \ 0.00E+00$			
5.45E+01 1.71E+02	3.00E+02	1.00E+01	0.00E+00 $0.00E+00$ $0.00E+00$ $0.00E+00$

0.00E+00 0.00E+00	2.005 + 02	1.055 01	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00
6.46E+01 1.75E+02	3.00E + 02	1.05E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00 7.67E+01 1.80E+02	3.00E+02	1.12E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00 0.00E+00	3.00E ± 02	1.126 + 01	0.000 + 00	0.00E+00	0.000	0.000
9.14E+01 1.86E+02	3.00E+02	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00 0.00E+00	3.00E ± 02	1.200 + 01	0.000 + 00	0.000	0.000	0.000
1.09E+02 1.93E+02	3.00E+02	1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
$0.00E+00 \ 0.00E+00$	3.00L + 02	1.236 + 01	0.00L±00	0.00L+00	0.00L+00	0.00L+00
1.30E+02 2.01E+02	3.00E+02	1.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00 0.00E+00	J.00E 1 02	1.421 101	0.001 100	0.001 100	0.001 100	0.001 100
1.55E+02 2.11E+02	3.00E+02	1.57E+01	0.00E + 00	0.00E+00	0.00E+00	0.00E+00
0.00E+00 0.00E+00	3.002 1 02	1.572101	0.002 1 00	0.002 1 00	0.002 1 00	0.002 1 00
1.86E+02 2.23E+02	3.00E+02	1.75E+01	0.00E + 00	0.00E+00	0.00E+00	0.00E + 00
0.00E+00 0.00E+00	3.002 1 02	11752 101	0.002 1 00	0.002 1 00	0.002 1 00	0.002 1 00
2.23E+02 2.37E+02	3.00E+02	1.98E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	3.002 . 02		0.002 . 00	0.002 . 00	0.002 . 00	0.002 . 00
2.67E+02 2.54E+02	3.00E + 02	2.25E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
3.20E+02 2.75E+02	3.00E + 02	2.59E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00						
3.84E+02 3.00E+02	3.00E + 02	2.98E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00						
4.60E+02 3.24E+02	3.01E + 02	3.46E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E + 00 0.00E + 00						
5.52E+02 3.52E+02	3.01E + 02	4.03E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E + 00$						
6.63E+02 3.86E+02	3.02E + 02	4.71E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
7.96E+02 4.27E+02	3.03E + 02	5.51E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E + 00 0.00E + 00						
9.56E+02 4.76E+02	3.03E + 02	6.45E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2.0=5 . 02	7.55.01	0.005 . 00	0.005 . 00	0.005 . 00	0.005 . 00
1.15E+03 5.35E+02	3.05E + 02	7.56E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2.065 / 02	0.065 + 04	0.005 . 00	0.005 . 00	0.005 . 00	0.005 . 00
1.38E+03 6.07E+02	3.06E + 02	8.86E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2.075 + 02	1.045 + 02	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00
1.66E+03 6.92E+02	3.07E + 02	1.04E+02	0.00E+00	0.00E+00	0.00E + 00	0.00E+00
0.00E+00 0.00E+00	2.005 + 02	1 215 + 02	0.005 ± 00	0.005 + 00	0.005 + 00	0.005 ± 00
1.99E+03 7.95E+02 0.00E+00 0.00E+00	3.09E + 02	1.21E+02	0.00E+00	U.UUE + UU	0.00E + 00	U.UUE +UU
2.39E+03 9.19E+02	3.12E+02	1.42E+02	0.006 ± 00	ሀ ሀሀር ተሀሀ	0.00E+00	0 00E±00
0.00E+00 0.00E+00	J.IZLTUZ	1.7∠∟⊤∪∠	0.00L±00	0.00L±00	0.00L T 00	0.00L T00
2.88E+03 1.07E+03	3.14E+02	1.65E+02	0.005±00	0.005±00	0.00E+00	0.005±00
0.00E+00 0.00E+00	J. 17E 1 UZ	1.036 1 02	0.00L 1 00	0.00∟ 100	0.00L 00	0.00L 00
3.46E+03 1.25E+03	3.17E+02	1.93E+02	0.00F+00	0.00F + 00	0.00E+00	0.00F + 00
0.00E+00 0.00E+00	3 T		3.332 1 30	3.002 1 00	3.002 1 00	3.002 100
4.16E+03 1.46E+03	3.21E+02	2.24E+02	0.00F + 00	0.00F + 00	0.00E+00	0.00F + 00
0.00E+00 0.00E+00	- · · · - · · · -	. , <u> </u>	1,111			
5.00E+03 1.72E+03	3.26E+02	2.59E+02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	-	-				
1						

time averaged (tav = 3600. s) volume concentration: concentration in the z = 1.50 plane.

downwind	time of c	loud effecti	ve average	e concentra	ition (volun	ne fraction)	at (x,y,z)	
distance n	nax conc du	ration halfv	vidth y/bbc=	y/bbc=	y/bbc=	y/bbc= y,	/bbc= y/b	obc=
x (m) (s) (s) bl	` '	.0 0.5 1.0	1.5	2.0 2.5			
-5.00E+00	1.52E + 02	3.00E + 02	2 5.00E+00	0.00E	+00 0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0.	.00E + 00							
-4.00E+00	1.52E + 02	3.00E + 02	5.05E + 00	5.36E-06	5.00E-06	1.82E-06	5.35E-08	6.01E-11
0.00E + 00								
-3.00E+00	1.51E+02	3.00E + 02	5.15E + 00	1.22E-03	1.11E-03	4.00E-04	1.55E-05	3.49E-08
0.00E + 00								
-2.00E+00	1.51E + 02	3.00E + 02	6.24E + 00	9.07E-03	6.93E-03	2.38E-03	2.51E-04	6.66E-06
4.10E-08	1 =0= : 02	2 005 : 02	5.005 . 00	2 === 0.4	2.025.04	6.075.07	0.425.06	2 265 0
-1.00E+00	1.50E + 02	3.00E + 02	6.88E + 00	2.//E-04	2.03E-04	6.8/E-05	8.43E-06	3.26E-07
3.70E-09	4 505 : 03	2.005 / 02	6.005 + 00	4 205 02	4 025 02	2 445 04	4.275.05	4.705.06
	1.50E+02	3.00E + 02	6.99E+00	1.39E-03	1.02E-03	3.44E-04	4.2/E-05	1.70E-06
2.03E-08	1 505 + 03	2 00E + 02	7.005 + 00	2.015.02	2 125 02	7 1 4 5 0 4	0.055.05	2 645 06
1.00E+00 4.50E-08	1.50E+02	3.00E+02	7.09E+00	2.91E-03	2.12E-U3	7.14E-U4	8.95E-05	3.04E-Ub
4.50E-08 2.00E+00	1.51E+02	3.00E+02	7.19E+00	4 7 2E 02	2.44E.02	1 165 02	1.46E-04	6 045 06
7.66E-08	1.316±02	3.00E ± 02	7.196±00	4./3E-03	3. 44 E-03	1.10E-03	1.40E-04	0.04E-00
3.00E+00	1.51E+02	3.00F+02	7.29E+00	7 115 02	5 16E 02	1 7/E O2	2.20F-04	0.225.06
1.19E-07	1.51L±02	3.00L+02	7.29L±00	7.11L-03	J.10L-03	1./ 4 L-03	2.20L-04	3.22L-00
4.00F+00	1.52E+02	3.00E+02	7.38E+00	1.05E-02	7 57F-03	2 54F-03	3.26E-04	1 40F-05
1.91E-07	1.321 102	J.00L 1 02	7.50L T 00	1.03L-02	7.57L-05	Z.JTL-03	J.20L-07	1. 1 0L-03
5.00E+00	1.52E+02	3.00E+02	8.13E+00	1.35F-02	9.59F-03	3.19F-03	4.37E-04	2.25F-05
4.12E-07	11322 1 02	3.002 1 02	0.132 1 00	1.552 02	J.JJL 03	31132 03	1137 E 0 1	2.232 03
5.10E+00	1.52E+02	3.00E + 02	8.14E+00	4.17E-03	2.96E-03	9.85E-04	1.35E-04	6.97E-06
1.28E-07								
5.22E+00	1.52E+02	3.00E + 02	8.14E+00	4.19E-03	2.97E-03	9.90E-04	1.36E-04	7.01E-06
1.29E-07								
5.37E+00	1.52E+02	3.00E + 02	8.15E + 00	4.20E-03	2.98E-03	9.92E-04	1.36E-04	7.04E-06
1.30E-07								
5.54E+00	1.52E + 02	3.00E + 02	8.16E + 00	4.20E-03	2.98E-03	9.90E-04	1.36E-04	7.05E-06
1.30E-07								
5.76E+00	1.52E + 02	3.00E + 02	8.18E + 00	4.17E-03	2.96E-03	9.83E-04	1.35E-04	7.02E-06
1.30E-07								
6.01E+00	1.52E + 02	3.00E + 02	8.19E + 00	4.11E-03	2.91E-03	9.69E-04	1.33E-04	6.94E-06
1.29E-07								
6.32E+00	1.52E + 02	3.00E + 02	8.21E + 00	4.01E-03	2.84E-03	9.45E-04	1.30E-04	6.80E-06
1.28E-07								
6.68E+00	1.53E + 02	3.00E + 02	8.23E + 00	3.90E-03	2.76E-03	9.19E-04	1.27E-04	6.64E-06
1.25E-07								
7.12E+00	1.53E + 02	3.00E + 02	8.26E + 00	3.90E-03	2.76E-03	9.18E-04	1.27E-04	6.67E-06
1.27E-07	4 =0=	2.005	0.205 : 0.5	4 455	2455 ***	4.0== ==	4 /== -:	7.605.55
7.65E+00	1.53E+02	3.00E + 02	8.29E+00	4.46E-03	3.16E-03	1.05E-03	1.45E-04	7.68E-06
1.47E-07	1 525 : 02	2.005 + 02	0.335 + 00	C 00E 03	4.075.03	1 (25 02	2 245 24	1 105 05
8.29E+00	1.53E+02	3.00E + 02	8.32E+00	6.88E-03	4.8/E-03	1.62E-03	2.24E-04	1.19E-05
2.31E-07	1 545 : 03	2.005 + 02	0.245 ± 00	1 145 02	0.025.02	2.675.02	2 71 5 0 4	1 005 05
9.06E+00	1.54E+02	3.00E+02	8.34E+00	1.14E-02	8.U3E-U3	2.0/E-U3	3.71E-04	1.98E-05
3.88E-07 9.98E+00	1 5/E ± 02	3.00E+02	8 36E J 00	8 02E 03	6 225 02	2 105 02	2.93E-04	1 50E 0E
3.30E ± UU	1.54E+02	3.00E ± 02	0.305 +00	0.37E-03	0.32E-03	2.10E-03	2.33E-U4	1.30E-03

3.13E-07						
1.11E+01 1.54E+02	3.00E + 02	8.38E + 00	1.31E-03 9.22	E-04 3.06E-	04 4.28E-05	5 2.32E-06
4.67E-08						
1.24E+01 1.55E+02	3.00E + 02	8.40E + 00	5.66E-06 3.99	E-06 1.32E-	06 1.86E-01	7 1.02E-08
2.08E-10						
1.40E+01 1.55E+02	3.00E + 02	8.43E + 00	2.62E-11 1.85	E-11 6.12E-	12 8.62E-13	3 4.77E-14
9.90E-16						
1.60E+01 1.56E+02	3.00E + 02	8.47E + 00	4.22E-22 2.96	E-22 9.81E-	23 1.39E-23	3 7.77E-25
1.64E-26						
1.83E+01 1.57E+02	3.00E + 02	8.53E + 00	1.63E-42 1.15	E-42 3.78E-	43 5.32E-4	4 2.80E-45
0.00E + 00						
2.11E+01 1.58E+02	2 3.00E+02	8.61E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
2.44E+01 1.60E+02	3.00E + 02	8.73E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
2.84E+01 1.61E+02	3.00E + 02	8.87E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	_					
3.33E+01 1.63E+02	3.00E + 02	9.06E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
3.91E+01 1.65E+02	3.00E + 02	9.31E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
4.61E+01 1.68E+02	3.00E+02	9.62E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
5.45E+01 1.71E+02	3.00E+02	1.00E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
6.46E+01 1.75E+02	3.00E+02	1.05E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
7.67E+01 1.80E+02	3.00E+02	1.12E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+00$						
9.14E+01 1.86E+02	2 3.00E+02	1.20E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00						
1.09E+02 1.93E+02	2 3.00E+02	1.29E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00						
1.30E+02 2.01E+02	2 3.00E+02	1.42E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00						
1.55E+02 2.11E+02	2 3.00E+02	1.57E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2005:02	4 7-5 : 04	0.005 . 00	0.005 : 00	0.005 . 00	0.005 . 00
1.86E+02 2.23E+02	2 3.00E+02	1.75E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2005:02	1 005 : 01	0.005 . 00	0.005 : 00	0.005 . 00	0.005 . 00
2.23E+02 2.37E+02	2 3.00E+02	1.98E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2005:02	2.2=5 . 04	0.005 . 00	0.005 : 00	0.005 . 00	0.005 . 00
2.67E+02 2.54E+02	2 3.00E+02	2.25E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+00	2005:02	2 = 25 : 24	0.005 . 00	0.005 : 00	0.005 . 00	0.005 . 00
3.20E + 02 $2.75E + 02$	2 3.00E+02	2.59E+01	0.00E + 00	0.00E + 00	U.UUE+00	U.UUE+00
0.00E+00 0.00E+00	2.005 + 62	2.005 + 04	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00
3.84E+02 $3.00E+02$	2 3.00E+02	2.98E+01	0.00E + 00	U.UUE+00	0.00E + 00	U.UUE +00
0.00E+00 0.00E+00	2.045 + 02	2.465 + 04	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00
4.60E + 02 $3.24E + 02$	2 3.01E+02	3.46E+01	0.00E + 00	U.UUE+00	0.00E + 00	U.UUE +00
0.00E+00 0.00E+00	2.015 + 02	4.035 + 04	0.005 + 00	0.005 + 00	0.005 + 00	0.005 / 00
5.52E+02 3.52E+02	2 3.01E+02	4.03E+01	0.00E + 00	U.UUE+00	0.00E + 00	U.UUE+00
0.00E + 00 0.00E + 00	2.025 + 02	4 715 + 04	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00
6.63E+02 3.86E+02	2 3.02E+02	4.71E+01	0.00E + 00	0.00E + 00	U.UUE+00	U.UUE +00
0.00E+00 0.00E+00						

7.96E+02 4.2	7E+02 3.03E+02	5.51E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E+00
0.00E+00 0.00E+	-00					
9.56E+02 4.7	6E+02 $3.03E+02$	6.45E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
0.00E+00 0.00E+	-00					
1.15E+03 5.3	5E+02 $3.05E+02$	7.56E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	-00					
1.38E+03 6.0	7E+02 $3.06E+02$	8.86E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	-00					
1.66E+03 6.9	2E+02 $3.07E+02$	1.04E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	-00					
1.99E+03 7.9	5E+02 $3.09E+02$	1.21E+02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	-00					
2.032 . 03 3	9E+02 3.12E+02	1.42E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	• •					
	7E+03 $3.14E+02$	1.65E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E + 00 \ 0.00E +$	-00					
31.02.032	5E+03 $3.17E+02$	1.93E+02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+$	• •					
	6E+03 $3.21E+02$	2.24E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00
$0.00E+00 \ 0.00E+$	• •					
0.000	2E+03 $3.26E+02$	2.59E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E+00
$0.00E+00 \ 0.00E+$	-00					
1						

time averaged (tav = 3600. s) volume concentration: concentration in the z = 1.80 plane.

downwind time of	cloud effective	average cor	ncentration (vo	olume fraction)	at (x,y,z)
distance max conc	duration half widt	h y/bbc= y/l	bbc= y/bbc=	= y/bbc= y/	bbc= y/bbc=
x (m) (s) (s)	bbc (m) 0.0	0.5 1.0 1	.5 2.0 2	2.5	
-5.00E+00 1.52E+	02 3.00E + 02	5.00E + 00	0.00E + 00	0.00E + 00 0.0	0.00E + 00 $0.00E + 00$
$0.00E+00 \ 0.00E+00$					
	2 3.00E+02 5.	.05E + 00 1.7	2E-07 1.61E	-07 5.84E-08	1.72E-09 1.93E-12
0.00E+00					
-3.00E+00 1.51E+0	2 3.00E+02 5.	15E+00 3.7	1E-04 3.38E	-04 1.22E-04	4.71E-06 1.06E-08
0.00E+00					
-2.00E+00 1.51E+0	2 3.00E+02 6.	.24E + 00 6.0	7E-03 4.64E	-03 1.59E-03	1.68E-04 4.46E-06
2.74E-08	2 2005 : 02 6	005 : 00 5 4	45.05.2.005	05 4 255 05	4.655.066.205.00
-1.00E+00 1.50E+0	2 3.00E+02 6.	.88E+00 5.4	4E-05 3.98E	-05 1.35E-05	1.65E-06 6.39E-08
7.26E-10	2.005+02-00	005+00 55	DE 04 4 02E	04 1 265 04	1.69F-05 6.72F-07
-5.96E-08 1.50E+02 8.03F-09	3.00E+02 6.9	39E+00 3.3	2E-04 4.03E-	04 1.36E-04	1.69E-05 6./2E-0/
1.00F+00 1.50F+0	2 3.00F+02 7.	09F+00 1.5	5E 02 112E	02 2 81E 04	4.77F-05 1.94F-06
2.40F-08	2 3.00L 102 7.	071 100 1.5	JL-03 1.13L	-03 3.01L-0 1	4.//L-03 1.J4L-00
2.40E+00 1.51E+0	2 3.00F+02 7.	19F+00 3.0	3F-03 2 21F.	-03 7 43F-04	9.37F-05 3.87F-06
4.91F-08	2 3.000 102 7.	152 100 5.0	JE 03 2.21E	05 7.452 04	J.57E 05 J.07E 00
3.00F+00 1.51F+0	2 3.00F+02 7.	29F+00 5.2	8F-03 3.83F	-03 1.29F-03	1.63F-04 6.84F-06
8.87F-08	_ 5.002 . 02 7.		02 03 3,032		
4.00E+00 1.52E+0	2 3.00E+02 7.	38E+00 8.9	5E-03 6.48E-	-03 2.18E-03	2.79E-04 1.20E-05
1.63E-07					
5.00E+00 1.52E+0	2 3.00E+02 8.	13E+00 1.3	1E-02 9.32E-	-03 3.10E-03	4.25E-04 2.19E-05
4.01E-07					
5.10E+00 1.52E+0	2 3.00E+02 8.	14E+00 2.4	2E-03 1.72E-	-03 5.72E-04	7.85E-05 4.05E-06

7.43E-08								
5.22E+00	1.52E + 02	3.00E + 02	8.14E + 00	2.44E-03 1.7	73E-03	5.77E-04	7.92E-05	4.08E-06
7.52E-08								
5.37E+00	1.52E + 02	3.00E + 02	8.15E + 00	2.45E-03 1.7	74E-03	5.79E-04	7.95L-05	4.11E-06
7.58E-08	4 = 2 =	2 005 : 02	0.465 . 00	2 4== 02 4 =	- 45 00		= 0.45 0=	4.445.06
5.54E+00	1.52E + 02	3.00E + 02	8.16E + 00	2.45E-03 1.7	/4E-03	5.//E-04	/.94E-05	4.11E-06
7.60E-08	4 = 2 =	2.005 . 02	0.405 . 00	2 425 02 4	- 4- 00		= 0== 0=	4.075.06
5.76E+00	1.52E + 02	3.00E + 02	8.18E+00	2.42E-03 1.7	/TE-03	5./0E-04	7.85E-05	4.0/E-06
7.56E-08	1 525 + 02	2.005 + 02	0.105 + 00	2.265.02.17	C7E 02	T T C T O 4	7.665.05	2.005.06
6.01E+00	1.52E+02	3.00E + 02	8.19E + 00	2.36E-03 1.6	6/E-03	5.56E-04	7.66E-05	3.98E-06
7.43E-08	1 525 + 02	2.005 + 02	0.215 + 00	2.205.02.17	COE 02	E 22E 04	7.255.05	2 0 4 5 0 6
6.32E+00 7.20E-08	1.52E+02	3.00E + 02	8.21E+00	2.26E-03 1.6	DUE-03	5.33E-04	7.35E-05	3.84E-00
	1 525 + 02	2.005 + 02	0.225 + 00	2.155.02.15	E3E 03	E 07E 04	7.005.05	2.675.06
6.68E+00 6.92E-08	1.53E+02	3.00E + 02	8.23E+00	2.15E-03 1.5	53E-03	5.0/E-04	7.00E-05	3.67E-06
7.12E+00	1.53E+02	3.00E+02	8.26F+00	2.11E-03 1.5	EUE U3	4 00E 04	C 00E 0E	3.62E-06
6.88E-08	1.33E±02	3.00E ± 02	0.20E±00	2.11E-03 1	30E-03	4.30E-04	0.00E-03	3.02E-00
7.65E+00	1.53E+02	3.00E+02	8.29F+00	2.39F-03 1.6	60E-U3	5.62E-04	7 78F-05	/ 11E-06
7.88E-08	1.33L±02	3.00L + 02	0.23L±00	2.391-03 1.0	09L-03	J.02L-04	7.76L-03	4.11L-00
8.29E+00	1.53E+02	3.00E+02	8.32E+00	3.47E-03 2.4	45F-03	8 15F-04	1 13F-04	6.01E-06
1.16E-07	1.556 1 02	J.00L 1 02	0.32L T 00	J. 4 7L-0J 2	1 3L-03	0.13L-0 1	1.13L-0 4	0.011-00
9.06F+00	1.54E+02	3.00E+02	8.34F+00	8.20E-03 5.7	79F-03	1 92F-03	2 68F-04	1 43F-05
2.80E-07	1.546 1 02	3.00E 1 02	0.546 1 00	0.201 03 3.7	7 7 2 03	1.521 05	2.000 01	1.432 03
9.98E+00	1.54E+02	3.00E+02	8.36E+00	1.13E-02 7.9	98F-03	2 65F-03	3 69F-04	1.99E-05
3.95E-07	1.512102	3.002 1 02	0.302 1 00	1.132 02 7.3	JOE 03	2.032 03	3.03E 0 1	1.552 05
1.11E+01	1.54E+02	3.00E+02	8.38E+00	3.54E-03 2.5	50F-03	8.28F-04	1.16F-04	6.29F-06
1.26E-07		3.002 1 02	0.302 1 00	3.312 03 2.5	302 03	0.202 0 1	11102 01	0.232 00
1.24E+01	1.55E+02	3.00E+02	8.40E+00	4.43E-05 3.1	12F-05	1.03F-05	1.45E-06	7.96E-08
1.62E-09		3.002 . 02	01.02 . 00		05		52 00	7.502 00
1.40E+01	1.55E+02	3.00E + 02	8.43E + 00	8.93E-10 6.2	29E-10	2.08E-10	2.93E-11	1.62E-12
3.37E-14								
1.60E+01	1.56E+02	3.00E + 02	8.47E + 00	1.08E-19 7.6	60E-20	2.51E-20	3.56E-21	1.99E-22
4.21E-24								
1.83E+01	1.57E+02	3.00E + 02	8.53E + 00	6.42E-39 4.5	51E-39	1.49E-39	2.12E-40	1.20E-41
2.59E-43								
2.11E+01	1.58E+02	3.00E + 02	8.61E + 00	0.00E + 00	0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0	.00 + 300							
2.44E+01	1.60E + 02	3.00E + 02	8.73E + 00	0.00E + 00	0.00	E+00 0.0	00 + 300	0.00E + 00
0.00E + 00 0	.00 + 300							
2.84E+01	1.61E+02	3.00E + 02	8.87E + 00	0.00E + 00	0.00	E+00 = 0.0	00E + 00	0.00E + 00
0.00E + 00 0	.00E + 00							
3.33E+01	1.63E+02	3.00E + 02	9.06E + 00	0.00E + 00	0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0	.00E + 00							
3.91E+01	1.65E + 02	3.00E + 02	9.31E+00	0.00E + 00	0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0								
4.61E+01	1.68E + 02	3.00E + 02	9.62E + 00	0.00E + 00	0.00	E+00 0.0	00 + 300	0.00E + 00
0.00E + 00 0								
5.45E+01	1.71E+02	3.00E + 02	1.00E + 01	0.00E + 00	0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0								
6.46E+01	1.75E + 02	3.00E + 02	1.05E+01	0.00E + 00	0.00	E+00 0.0	00 + 300	0.00E + 00
0.00E + 00 0								
7.67E+01	1.80E+02	3.00E + 02	1.12E+01	0.00E + 00	0.00	E+00 0.0	00E + 00	0.00E + 00
0.00E + 00 0	.00E+00							

9.14E+01 1.86E+02	3.00E+02	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00 1.09E+02 1.93E+02	3.00E+02	1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
0.00E + 00 0.00E + 00	J.00L 1 02	1.236 101	0.00E 1 00	0.001 100	0.001 100	0.001 100	
1.30E+02 2.01E+02	3.00E + 02	1.42E+01	0.00E + 00	0.00E+00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00	2.005 + 02	1 575 + 01	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00	
1.55E+02 2.11E+02 0.00E+00 0.00E+00	3.00E+02	1.57E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
1.86E+02 2.23E+02	3.00E+02	1.75E+01	0.00E + 00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00							
2.23E+02 2.37E+02	3.00E + 02	1.98E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00 2.67E+02 2.54E+02	3.00E+02	2.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00	3.002 1 02	2,232 1 0 1	0.002 1 00	0.002 1 00	0.002 1 00	0.002 1 00	
3.20E+02 2.75E+02	3.00E + 02	2.59E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00	2.005 + 02	2.005 + 01	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00	
3.84E+02 3.00E+02 0.00E+00 0.00E+00	3.00E+02	2.98E+01	0.00E + 00	0.00E+00	0.00E+00	0.00E + 00	
4.60E+02 3.24E+02	3.01E+02	3.46E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00							
5.52E+02 3.52E+02 0.00E+00 0.00E+00	3.01E + 02	4.03E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
6.63E+02 3.86E+02	3.02E+02	4.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00							
7.96E+02 4.27E+02	3.03E + 02	5.51E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00 9.56E+02 4.76E+02	3.03E+02	6.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00	J.UJL 1 UZ	0. 1 3L 01	0.001 100	0.001 100	0.00L T 00	0.001 100	
1.15E+03 5.35E+02	3.05E + 02	7.56E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00	2.005 + 02	0.065 + 01	0.005 + 00	0.005 + 00	0.005 + 00	0.005 + 00	
1.38E+03 6.07E+02 0.00E+00 0.00E+00	3.06E+02	8.86E+01	0.00E + 00	0.00E + 00	0.00E+00	0.00E + 00	
1.66E+03 6.92E+02	3.07E + 02	1.04E+02	0.00E + 00	0.00E+00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00							
1.99E+03 7.95E+02 0.00E+00 0.00E+00	3.09E + 02	1.21E+02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
2.39E+03 9.19E+02	3.12E+02	1.42E+02	0.00E + 00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00							
2.88E+03 1.07E+03	3.14E + 02	1.65E + 02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00 3.46E+03 1.25E+03	3.17E+02	1.93E+02	0.00E + 00	0.00E+00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00			0.002.00				
4.16E+03 1.46E+03	3.21E+02	2.24E+02	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00	
0.00E+00 0.00E+00 5.00E+03 1.72E+03	3.26E+02	2.59E+02	0.00E+00	0.00E±00	0.00E+00	0.00E+00	
0.00E+00 0.00E+00	J.4UL TUZ	∠.JJL⊤UZ	0.00L±00	0.00∟⊤00	0.00∟⊤00	0.00∟⊤00	
1							
l .							1

time averaged (tav = 3600. s) volume concentration: concentration in the z = 9.00 plane.

downwind time of cloud effective average concentration (volume fraction) at (x,y,z) distance max conc duration half width y/bbc= y/bbc= y/bbc= y/bbc= y/bbc= y/bbc=

v (m) (e) (c) b!	vc (m) 0	.0 0.5 1.	0 1.5	2.0 2.5		
x (m) (s -5.00E+00) (s) bb 1.52E+02	` '		0.00E		-00 0.00E	+00 0.00E+00
		3.00E ± 02	2 3.000 + 00	0.00E	T00 0.00ET	-00 0.00E	+00 0.00E+00
0.00E + 00 0		2.005 + 02		0.005	100 00051	00 0.005	100 0005100
-4.00E+00	1.52E + 02	3.00E + 0.2	2 5.05E+00	0.00E	+00 0.00E+	-00 0.00E	+00 0.00E+00
0.00E + 00 0		2.005 + 02	E 1EE 00	0.445.45	7.015.45.2.00	NE 4E 0 001	- 1 00 0 00F 1 00
-3.00E+00	1.51E+02	3.00E + 02	5.15E±00	8.41E-45	7.01E-45 2.80)E-45 0.001	E+00 0.00E+00
0.00E+00	1 = 1 = 1 = 2	2 005 : 02	6245.00	1 2== 16	0 = 6 = 4 = 0	205.45	165 10 0 205 20
-2.00E+00	1.51E + 02	3.00E + 02	6.24E + 00	1.25E-16	9.56E-1/ 3.	.28E-1/ 3.4	46E-18 9.20E-20
5.65E-22							
-1.00E+00	1.50E+02	3.00E + 0.2	2 6.88E+00	0.00E	+00 0.00E+	-00 0.00E	+00 0.00E+00
0.00E + 00 0							
-5.96E-08	1.50E + 02	3.00E + 02	6.99E + 00	1.31E-35	9.54E-36 3.	22E-36 4.0	00E-37 1.59E-38
1.90E-40							
1.00E+00	1.50E + 02	3.00E + 02	7.09E + 00	5.50E-25	4.01E-25 1.	.35E-25 1.6	69E-26 6.89E-28
8.52E-30							
2.00E+00	1.51E+02	3.00E + 02	7.19E + 00	2.04E-18	1.49E-18 5.	.01E-19 6.3	31E-20 2.61E-21
3.31E-23							
3.00E+00	1.51E + 02	3.00E + 02	7.29E + 00	3.74E-13	2.72E-13 9.	.15E-14 1.1	16E-14 4.86E-16
6.30E-18							
4.00E+00	1.52E + 02	3.00E + 02	7.38E + 00	4.48E-08	3.24E-08 1.	.09E-08 1.4	40E-09 6.01E-11
8.18E-13							
5.00E+00	1.52E + 02	3.00E + 02	8.13E + 00	1.41E-03	9.99E-04 3	.32E-04 4.5	56E-05 2.34E-06
4.29E-08							
5.10E+00	1.52E + 02	3.00E + 02	8.14E + 00	7.07E-22	5.02E-22 1.	.67E-22 2.2	29E-23 1.18E-24
2.17E-26							
5.22E+00	1.52E + 02	3.00E + 02	8.14E + 00	9.19E-22	6.52E-22 2.	.17E-22 2.9	98E-23 1.54E-24
2.83E-26							
5.37E+00	1.52E+02	3.00E + 02	8.15E + 00	1.05E-21	7.45E-22 2.	.48E-22 3.4	41E-23 1.76E-24
3.25E-26							
5.54E+00	1.52E+02	3.00E + 02	8.16E + 00	9.72E-22	6.89E-22 2.	.29E-22 3. ²	15E-23 1.63E-24
3.02E-26							
5.76E+00	1.52E+02	3.00E + 02	8.18E + 00	6.47E-22	4.59E-22 1.	.53E-22 2.1	10E-23 1.09E-24
2.02E-26							
6.01E+00	1.52E+02	3.00E + 02	8.19E+00	2.63E-22	1.86E-22 6.	.19E-23 8. ^r	52E-24 4.43E-25
8.28E-27							
6.32E+00	1.52E+02	3.00E + 02	8.21E+00	4.88E-23	3.46E-23 1.	.15E-23 1.	59E-24 8.27E-26
1.55E-27							
6.68E+00	1.53F+02	3.00E+02	8.23F + 00	2.21F-24	1.57F-24 5.	.20F-25 7.1	18F-26 3.76F-27
7.10E-29			5.2527				
7.12E+00	1.53E+02	3.00E+02	8.26F+00	5.82F-27	4.12F-27 1.	.37F-27 1.8	89E-28 9.95E-30
1.89E-31	552 . 62	3.002 . 02	0.202 . 00	3.022 2.			,32 20 3.332 30
7.65E+00	1.53E+02	3.00F±02	8.29E+00	2 41F-32	1 71F-32 5	67F-33 7 !	86E-34 4.15E-35
7.96E-37	1.55E 1 02	3.00E 1 02	0.232 1 00	2.416 32	1.712 32 3.	.072 33 7.0	JOE 34 4.13E 33
8.29E+00	1.53E+02	3.00E+03	8.32E+00	0.00E	+00 0 00F+	-00 0.00F	+00 0.00E+00
0.00E + 00 0		J.00L 1 02	0.521 100	0.00L	. 30 0.00L	0.00L	. 50 0.001 100
		3 00F ± 02	8.34E+00	2.80F-45	2 80F-45 1 40)F-45 0 00!	E+00 0.00E+00
0.00E + 00	1.512102	3.00E 1 0Z	5.5 IL 1 00	2.00E TJ 2	502 15 1.40	,	_ 1 30
9.98E+00	1 5/E±02	3.00E+02	8 365 + 00	1 225 20	8 61E-40 2	86E-40 2.0	99E-41 2.15E-42
9.98E+00 4.20E-44	1.J 1 L∓UZ	J.00L T02	0.30∟⊤00	1.446-39	0.01L -4 0 2.	.00L-40 3.3	/JE-42
	1 5/E±02	3.00E+02	8 38E±00	1 7 5E 22	1 23E 22 /	00E⁻34 E.	72E-35 3.11E-36
	1.J 1 ETU2	J.00E T 02	0.30LT00	1./ JE-33	1.43L-33 4	.∪JL-J 4 J.,	7L-30 3.11E-30
6.25E-38	1.555 + 02	2 00E ± 02	8 40E + 00	2 605 26	1 005 26 6	205 27 00	82E-28 4.83E-29
	1.335+02	3.UUE+U2	0.4UE ± UU	2.09E-26	1.3UE-26 6.	,∠0E-Z/ Ŏ.č)4.03E-29
9.86E-31							

1.49F+01 1.59F+02 3.00F+02 8.43F+00 3.92F+18 2.76F+18 9.13F+19 1.29F+19 7.12F-21 1.48E-22 1.60E+01 1.50E+02 3.00E+02 8.47E+00 7.28E-10 5.12E-10 1.70E-10 2.40E-11 1.34E-12 2.84E-14 1.83E+01 1.57E+02 3.00E+02 8.53E+00 9.74E-04 6.84E-04 2.26E-04 3.22E-05 1.82E-05 3.94E-08 2.41E+01 1.58E+02 3.00E+02 8.73E+00 1.05E-19 7.32E-20 2.42E-20 3.47E-21 2.03E-22 1.19E-08 2.44E+01 1.60E+02 3.00E+02 8.73E+00 1.05E-19 7.32E-20 2.42E-20 3.47E-21 2.03E-22 2.84E+01 1.61E+02 3.00E+02 8.87E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.33E+01 1.63E+02 3.00E+02 9.3EE+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.39E+01 1.63E+02 3.00E+02 9.3EE+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00F+00 0.00E+00 3.00E+02 9.6EE+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00F+00 0.00E+00 3.00E+02 9.6EE+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.05E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.05E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.2EE+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.2EE+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.2EE+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 2.3EE+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 3.0EE+02									
1.66E+01 1.56E+02 3.00E+02 8.47E+00 7.28E-10 5.12E-10 1.70E-10 2.40E-11 1.34E-12 2.84F-14 1.87E+01 1.57E+02 3.00E+02 8.53E+00 9.74E-04 6.84E-04 2.26E-04 3.22E-05 1.82E-06 3.94E-08 2.11E+01 1.58E+02 3.00E+02 8.61E+00 2.81E-04 1.05E-19 7.32E-20 2.42E-20 3.47E-21 2.03E-22 2.84F+01 1.60E+02 3.00E+02 8.73E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.33E+01 1.63E+02 3.00E+02 9.31E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.30E+02 3.00E+02 9.31E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.61E+01 1.58E+02 3.00E+02 9.31E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.61E+01 1.58E+02 3.00E+02 9.62E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.61E+01 1.58E+02 3.00E+02 1.00E+01 0.00E+00		3.00E + 02	8.43E + 00	3.92E-18 2.7	6E-18 9.13E-	19 1.29E-19	7.12E-21		
2.84F-14									
1.83E+01 1.57E+02 3.00E+02 8.53E+00 9.74E-04 6.84E-04 2.26E-04 3.22E-05 1.82E-06 3.94E-08 2.41E+01 1.58E+02 3.00E+02 8.61E+00 2.81E-04 1.97E-04 6.52E-05 9.31E-06 5.35E-07 1.19E-08 2.44E+01 1.60E+02 3.00E+02 8.73E+00 1.05E-19 7.32E-20 2.42E-20 3.47E-21 2.03E-22 2.84E+01 1.61E+02 3.00E+02 8.87E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.33E+01 1.63E+02 3.00E+02 9.31E+00 0.00E+00		3.00E + 02	8.47E + 00	7.28E-10 5.1	2E-10 1.70E-	10 2.40E-11	1 1.34E-12		
3.94F-08 2.11F+01									
2.11F+01 1.58F+02 3.00F+02 8.61F+00 2.81F-04 1.97F-04 6.52F-05 9.31F-06 5.35F-07 1.19F-08 2.44F+01 1.60F+02 3.00F+02 8.73F+00 1.05F-19 7.32F-20 2.42F-20 3.47F-21 2.03F-22 2.84F+01 1.61F+02 3.00F+02 8.87F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.33F+01 1.63F+02 3.00F+02 9.06F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.39IF+01 1.65F+02 3.00F+02 9.31F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 9.31F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+02 9.62F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+02 1.00F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+02 1.05F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+02 1.22F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 1.39F+02 3.00F+02 1.22F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 1.39F+02 2.11F+02 3.00F+02 1.22F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 1.39F+02 2.31F+02 3.00F+02 1.57F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 1.39F+02 2.31F+02 3.00F+02 1.57F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 2.25F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 2.39F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+02 2.39F+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 3.00F+02 3.00F+0		3.00E + 02	8.53E + 00	9.74E-04 6.8	4E-04 2.26E-	04 3.22E-05	5 1.82E-06		
1.19E-08									
2.44E+01 1.60E+02 3.00E+02 8.73E+00 1.05E-19 7.32E-20 2.42E-20 3.47E-21 2.03E-22 4.61E-24 2.84E+01 1.61E+02 3.00E+02 8.87E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.31E+01 1.63E+02 3.00E+02 9.06E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.91E+01 1.63E+02 3.00E+02 9.31E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 9.62E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 3.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 1.05E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 1.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 1.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.39E+02 2.11E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.30E+02 2.31E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.26E+02 3.26E+02 3.50E+02 3.52E+02 3.00E+02 3.52E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.00E+02 3.52E+02 3.00E+02		3.00E + 02	8.61E + 00	2.81E-04 1.9	7E-04 6.52E-	05 9.31E-0 6	5 5.35E-07		
4.61E-24 2.84E+01 1.61E+02 3.00E+02 8.87E+00 0.00E+00 0.00E+00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
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0.00E+00 0.00E+00 0.33F+01 1.63E+02 0.00E+00									
3.33E+01 1.63E+02 3.00E+02 9.06E+00 0.00E+00		3.00E + 02	8.87E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00									
3.91E+01 1.65E+02 3.00E+02 9.31E+00 0.00E+00	3.33E+01 1.63E+02	3.00E + 02	9.06E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
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4.61E+01 1.68E+02 3.00E+02 9.62E+00 0.00E+00 0.00E+00 <t< td=""><td></td><td>3.00E + 02</td><td>9.31E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></t<>		3.00E + 02	9.31E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00	$0.00E+00 \ 0.00E+00$								
5.45E+01 1.71E+02 3.00E+02 1.00E+01 0.00E+00 0.00E+00 <td< td=""><td></td><td>3.00E + 02</td><td>9.62E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>		3.00E + 02	9.62E + 00	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00									
6.46E+01 1.75E+02 3.00E+02 1.05E+01 0.00E+00 0.00E+00 <td< td=""><td>5.45E+01 1.71E+02</td><td>3.00E + 02</td><td>1.00E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	5.45E+01 1.71E+02	3.00E + 02	1.00E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 7.67E+01 1.80E+02 3.00E+02 1.12E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 9.14E+01 1.86E+02 3.00E+02 1.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.09E+02 1.93E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.58E+02 2.23E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.36E+02 2.37E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.36E+02 2.37E+02 3.00E+02 1.98E+01 0.00E+00 0.0	$0.00E+00 \ 0.00E+00$								
7.67E+01 1.80E+02 3.00E+02 1.12E+01 0.00E+00 0.00E+00 <td< td=""><td>6.46E+01 1.75E+02</td><td>3.00E + 02</td><td>1.05E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	6.46E+01 1.75E+02	3.00E + 02	1.05E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 9.14E+01 1.86E+02 3.00E+02 1.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.09E+02 1.93E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+02 2.23E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+02 2.23E+02 3.00E+02 1.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.57E+02 3.00E+02 1.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.54E+02 3.00E+02 2.59E+01 0.00E+00 0.0	$0.00E+00 \ 0.00E+00$								
9.14E+01 1.86E+02 3.00E+02 1.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.99E+02 1.93E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.0	7.67E + 01 $1.80E + 02$	3.00E + 02	1.12E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 1.09E+02 1.93E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+02 2.23E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.23TE+02 3.00E+02 1.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.67E+02 2.54E+02 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.20E+02 3.00E+02 2.59E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.84E+02 3.00E+02 3.00E+02 2.98E+01 0.00E+00 0.	$0.00E+00 \ 0.00E+00$								
1.09E+02 1.93E+02 3.00E+02 1.29E+01 0.00E+00 0.00E+00 <td< td=""><td>9.14E+01 1.86E+02</td><td>3.00E + 02</td><td>1.20E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	9.14E+01 1.86E+02	3.00E + 02	1.20E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+02 2.23E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.23E+02 2.37E+02 3.00E+02 1.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.67E+02 2.54E+02 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.20E+02 2.75E+02 3.00E+02 2.59E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.84E+02 3.00E+02 2.98E+01 0.00E+00 0.0	$0.00E+00 \ 0.00E+00$								
1.30E+02 2.01E+02 3.00E+02 1.42E+01 0.00E+00 0.00E+00 <td< td=""><td>1.09E+02 1.93E+02</td><td>3.00E + 02</td><td>1.29E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	1.09E+02 1.93E+02	3.00E + 02	1.29E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00	$0.00E+00 \ 0.00E+00$								
1.55E+02 2.11E+02 3.00E+02 1.57E+01 0.00E+00 0.00E+00 <td< td=""><td>1.30E+02 2.01E+02</td><td>3.00E + 02</td><td>1.42E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	1.30E+02 2.01E+02	3.00E + 02	1.42E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 1.86E+02 2.23E+02 3.00E+02 1.75E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.23E+02 2.37E+02 3.00E+02 1.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.67E+02 2.54E+02 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.20E+02 2.75E+02 3.00E+02 2.59E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.84E+02 3.00E+02 3.00E+02 2.98E+01 0.00E+00 0.0	$0.00E+00 \ 0.00E+00$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.55E+02 2.11E+02	3.00E + 02	1.57E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 <td< td=""><td>$0.00E+00 \ 0.00E+00$</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	$0.00E+00 \ 0.00E+00$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.86E+02 2.23E+02	3.00E + 02	1.75E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 2.67E+02 2.54E+02 3.00E+02 2.25E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.20E+02 2.75E+02 3.00E+02 2.59E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.84E+02 3.00E+02 3.00E+02 2.98E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.60E+02 3.24E+02 3.01E+02 3.46E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.52E+02 3.52E+02 3.01E+02 4.03E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.63E+02 3.86E+02 3.02E+02 4.71E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.96E+02 4.27E+02 3.03E+02 5.51E+01 0.00E+00 0.0	0.00E + 00 0.00E + 00								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.23E+02 2.37E+02	3.00E + 02	1.98E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$0.00E + 00 \ 0.00E + 00$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.67E+02 2.54E+02	3.00E + 02	2.25E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$0.00E+00 \ 0.00E+00$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3.20E+02 2.75E+02	3.00E + 02	2.59E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$0.00E+00 \ 0.00E+00$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3.84E+02 3.00E+02	3.00E + 02	2.98E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.00E+00 0.00E+00								
5.52E+02 3.52E+02 3.01E+02 4.03E+01 0.00E+00 0.00E+00 <td< td=""><td>4.60E+02 3.24E+02</td><td>3.01E + 02</td><td>3.46E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	4.60E+02 3.24E+02	3.01E + 02	3.46E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 <td< td=""><td>0.00E+00 0.00E+00</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	0.00E+00 0.00E+00								
6.63E+02 3.86E+02 3.02E+02 4.71E+01 0.00E+00 0.0	5.52E+02 3.52E+02	3.01E + 02	4.03E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 7.96E+02 4.27E+02 3.03E+02 5.51E+01 0.00E+00 0.00	0.00E+00 0.00E+00								
7.96E+02 4.27E+02 3.03E+02 5.51E+01 0.00E+00 0.00E+00 <td< td=""><td>6.63E+02 3.86E+02</td><td>3.02E + 02</td><td>4.71E + 01</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td><td>0.00E + 00</td></td<>	6.63E+02 3.86E+02	3.02E + 02	4.71E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00E+00 0.00E+00 9.56E+02 4.76E+02 3.03E+02 6.45E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00									
9.56E+02 4.76E+02 3.03E+02 6.45E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00	7.96E+02 4.27E+02	3.03E + 02	5.51E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
	0.00E+00 0.00E+00								
0.005+00.0.005+00	9.56E+02 4.76E+02	3.03E + 02	6.45E + 01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		
0.00L 00 0.00L T00	0.00E+00 0.00E+00								
1.15E+03 5.35E+02 3.05E+02 7.56E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.15E+03 5.35E+02	3.05E + 02	7.56E+01	0.00E + 00	0.00E + 00	0.00E + 00	0.00E + 00		

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0.00E + 00 \quad 0.00E + 00
                                                   0.00F + 00 0.00F + 00 0.00F + 00 0.00F + 00
 1.38F + 03 6.07F + 02
                        3.06F + 02 \quad 8.86F + 01
0.00E + 00 \quad 0.00E + 00
 1.66E+03 6.92E+02 3.07E+02
                                   1.04E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00
 1.99E + 03
            7.95E+02 3.09E+02
                                   1.21E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E + 00 \quad 0.00E + 00
 2.39E+03 9.19E+02
                        3.12E + 02
                                    1.42E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E + 00 \quad 0.00E + 00
 2.88E + 03
            1.07E + 03 3.14E + 02
                                   1.65E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E + 00 \quad 0.00E + 00
 3.46E + 03
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
            1.25E+03 3.17E+02
                                   1.93E + 02
0.00E + 00 \quad 0.00E + 00
 4.16E+03 1.46E+03
                        3.21E + 02
                                    2.24E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00
 5.00E + 03
            1.72E + 03 3.26E + 02
                                  2.59E + 02
                                                   0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00
```

time averaged (tav = 3600. s) volume concentration: maximum concentration (volume fraction) along centerline.

```
downwind
               maximum time of cloud
distance height concentration max conc duration
 x (m) 	 z (m) 	 c(x,0,z) 	 (s)
                          (s)
-5.00E+00 0.00E+00 0.00E+00 1.52E+02 3.00E+02
-4.00E+00 0.00E+00 1.33E-02 1.52E+02 3.00E+02
-3.00E+00 0.00E+00 1.83E-02 1.51E+02 3.00E+02
-2.00E+00 0.00E+00 2.26E-02 1.51E+02 3.00E+02
-1.00E+00 0.00E+00 1.12E-02 1.50E+02 3.00E+02
-5.96E-08  0.00E+00  1.15E-02  1.50E+02  3.00E+02
1.00E+00 0.00E+00 1.21E-02 1.50E+02 3.00E+02
2.00E+00 0.00E+00 1.30E-02 1.51E+02 3.00E+02
3.00E+00 0.00E+00 1.40E-02 1.51E+02 3.00E+02
4.00E+00 0.00E+00 1.49E-02 1.52E+02 3.00E+02
5.00E+00 0.00E+00 1.44E-02 1.52E+02 3.00E+02
5.10E+00 0.00E+00 1.43E-02 1.52E+02 3.00E+02
5.22E+00 0.00E+00 1.43E-02 1.52E+02 3.00E+02
5.37E+00 0.00E+00 1.43E-02 1.52E+02 3.00E+02
5.54E+00 0.00E+00 1.43E-02 1.52E+02 3.00E+02
5.76E+00 0.00E+00 1.44E-02 1.52E+02 3.00E+02
6.01E+00 0.00E+00 1.45E-02 1.52E+02 3.00E+02
6.32E+00 0.00E+00 1.47E-02 1.52E+02 3.00E+02
6.68E+00 0.00E+00 1.50E-02 1.53E+02 3.00E+02
7.12E+00 0.00E+00 1.50E-02 1.53E+02 3.00E+02
7.65E+00 0.00E+00 1.35E-02 1.53E+02 3.00E+02
8.29E+00 8.85E-01 1.20E-02 1.53E+02 3.00E+02
9.06E+00 1.32E+00 1.20E-02 1.54E+02 3.00E+02
9.98E+00 1.88E+00 1.14E-02 1.54E+02 3.00E+02
1.11E+01 2.61E+00 1.10E-02 1.54E+02 3.00E+02
1.24E+01 3.53E+00 1.05E-02 1.55E+02 3.00E+02
1.40E+01 4.71E+00 1.01E-02 1.55E+02 3.00E+02
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1.60E+01 6.17E+00 9.71E-03 1.56E+02 3.00E+02
1.83F+01 7.98F+00 9.32F-03 1.57F+02 3.00F+02
2.11E+01 1.02E+01 8.93E-03 1.58E+02 3.00E+02
2.44E+01 1.30E+01 8.53E-03 1.60E+02 3.00E+02
2.84E+01 1.64E+01 8.12E-03 1.61E+02 3.00E+02
3.33E+01 2.05E+01 7.70E-03 1.63E+02 3.00E+02
3.91E+01 2.55E+01 7.27E-03 1.65E+02 3.00E+02
4.61E+01 3.16E+01 6.81E-03 1.68E+02 3.00E+02
5.45E+01 3.90E+01 6.34E-03 1.71E+02 3.00E+02
6.46E+01 4.80E+01 5.85E-03 1.75E+02 3.00E+02
7.67E+01 5.87E+01 5.34E-03 1.80E+02 3.00E+02
9.14E+01 7.16E+01 4.82E-03 1.86E+02 3.00E+02
1.09E+02 8.69E+01 4.31E-03 1.93E+02 3.00E+02
1.30E+02 1.05E+02 3.81E-03 2.01E+02 3.00E+02
1.55E+02 1.27E+02 3.33E-03 2.11E+02 3.00E+02
1.86E+02 1.52E+02 2.89E-03 2.23E+02 3.00E+02
2.23E+02 1.82E+02 2.49E-03 2.37E+02 3.00E+02
2.67E+02 2.18E+02 2.15E-03 2.54E+02 3.00E+02
3.20E+02 2.59E+02 1.86E-03 2.75E+02 3.00E+02
3.84E+02 2.59E+02 1.61E-03 3.00E+02 3.00E+02
4.60E+02 2.59E+02 1.39E-03 3.24E+02 3.01E+02
5.52E+02 2.59E+02 1.19E-03 3.52E+02 3.01E+02
6.63E+02 2.59E+02 1.02E-03 3.86E+02 3.02E+02
7.96E+02 2.59E+02 8.73E-04 4.27E+02 3.03E+02
9.56E+02 2.59E+02 7.45E-04 4.76E+02 3.03E+02
1.15E+03 2.59E+02 6.35E-04 5.35E+02 3.05E+02
1.38E+03 2.59E+02 5.42E-04 6.07E+02 3.06E+02
1.66E+03 2.59E+02 4.62E-04 6.92E+02 3.07E+02
1.99E+03 2.59E+02 3.94E-04 7.95E+02 3.09E+02
2.39E+03 2.59E+02 3.37E-04 9.19E+02 3.12E+02
2.88E+03 2.59E+02 2.88E-04 1.07E+03 3.14E+02
3.46E+03 2.59E+02 2.47E-04 1.25E+03 3.17E+02
4.16E+03 2.59E+02 2.12E-04 1.46E+03 3.21E+02
5.00E+03 2.59E+02 1.82E-04 1.72E+03 3.26E+02
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