

Review of Methyl chloroform: Metadata on Distributed Emissions

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Emission Functions

Methyl chloroform (CCl_3CH_3 , 1,1,1-trichloroethane) was primarily used as a solvent in a wide range of industrial and commercial processes from which emissions occur much more promptly than from, for example, refrigeration systems. Because most purchases were made to replace material that had already been emitted, emissions are an effectively invariant function of sales. Incorporating delays in the supply chain and the average delay between purchase of the material by the user and its emission, 75% of the material is emitted in the year of purchase and 25% in the following year (Midgley and McCulloch, 1995). Similar functions were applied to the relatively small quantities of methyl chloroform that were recently stockpiled. Simple delays, of one and two years, were used to account for the stock holding times.

Basic Data on Sales

The database for annual production and sales of methyl chloroform over the period 1951 to 2000 was combined from early estimates (Neely and Plonka, 1976), audited industrial data (Midgley, 1989; Midgley and McCulloch, 1995; CEFIC, 1997) and data submitted to the United Nations Environment Programme under the Montreal Protocol (UNEP, 2002). Methyl chloroform is unique among the ozone depleting substances controlled by the Protocol in that it is the sole member of a classification "Group" and so data are specific. However, the UNEP data are not audited and are quoted as ODPtonnes (Ozone Depletion Potential multiplied by the number of metric tonnes). The combined data set is reported in McCulloch and Midgley (2001).

Geographical Distribution of Emissions

Audited production and sales of methyl chloroform are subdivided into geographical regions in the industrial database. This enabled sales to be assigned to countries on the basis of each national share of the total regional Gross Domestic Product, as described in Midgley and McCulloch (1995). This use of relative GDP as a distribution function was shown to be valid for fluorocarbon solvents in McCulloch *et al.* (1994). Within each country, emissions were assigned to gridsquares using the population distribution in Li (1996).

Results are presented here as the percentage distribution among gridsquares. Absolute emission from each gridsquare in 1990 should be calculated by multiplying global emission for 1990 in Table 1 by the gridsquare percentages in Table 2 (Keene *et al.*, 1999). For other years, the distribution in Table 2 should be applied to the global emission for the appropriate year. While global emissions change relatively rapidly, distribution is affected only by relative economic activity and population dynamics, which have slower rates of change with time. It is expected that the distribution can be

applied to the years 1985 to 1995 without significantly increasing uncertainty but this has not been tested. It can be applied to years beyond this range only with caution and new distributions for more recent years are under development.

Time Series of Global Emissions

Based on McCulloch and Midgley (2001) the time series (1951 to 2000) of methyl chloroform emissions and their uncertainties is shown in Table 1.

Future emissions will be governed by the controls required by the Montreal Protocol and by the quantity of material currently in the "bank" (that is: material which is in use but has not yet been emitted). A scenario for future releases of CFC-11 was described in Madronich and Velders (1999). This scenario has been updated to take account of the significant reduction in productive capacity that has occurred in recent years and will be published in Fraser and Montzka (2003).

Development

In view of the changes brought about by the Montreal Protocol, it is proposed to revise the distribution functions to provide gridded data for the year 2000.

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Table 1.

"Global Emissions of Methyl chloroform (CH₃CCl₃, 1,1,1-trichloroethane) from 1951 to 2000"
Compiled by A. McCulloch

Based on: McCulloch A. and P.M. Midgley, 2001. Keene W.C., et al 1999. UNEP 2002

Data in Mg (millions of grams or metric tonnes)
SD = Standard Deviation

Year	"Annual CH ₃ CCl ₃ emission, Mg"		
	Mean	+ 2SD	- 2SD
1951	51	66	36
1952	102	126	78
1953	402	505	300
1954	1210	1510	910
1955	3510	4370	2650
1956	6220	7620	4810
1957	9460	11510	7410
1958	10800	13000	8600
1959	14700	17800	11600
1960	18300	22100	14500
1961	20100	24100	16000
1962	28200	34100	22300
1963	31400	37800	25000

1964	36200	43500	28800
1965	48100	58000	38100
1966	69500	84200	54800
1967	94100	114000	74300
1968	115000	138000	91100
1969	135000	162000	107000
1970	141000	154000	129000
1971	170000	179000	161000
1972	214000	228000	200000
1973	266000	284000	248000
1974	305000	323000	287000
1975	309000	324000	294000
1976	382000	406000	358000
1977	462000	491000	433000
1978	513000	541000	485000
1979	511000	535000	486000
1980	538000	564000	511000
1981	549000	575000	523000
1982	523000	548000	498000
1983	536000	561000	511000
1984	585000	614000	556000
1985	593000	622000	565000
1986	602000	631000	574000
1987	623000	652000	594000
1988	666000	699000	633000
1989	691000	724000	658000
1990	718000	752000	684000
1991	635000	669000	601000
1992	593000	623000	564000
1993	380000	435000	325000
1994	283000	325000	241000
1995	234000	254000	214000
1996	93500	113000	55400
1997	39500	65100	15000
1998	24200	47700	17900
1999	21400	23700	19100
2000	19700	20900	18400

Table 2.

"Distribution of Global Emissions of methyl chloroform (1,1,1-trichloroethane) during 1990" Compiled by A. McCulloch

Based on: McCulloch A. and P.M. Midgley, 2001. Keene et al, 1999. UNEP 2002

Relationship between Gridsquare Number and latitude and longitude

$$\text{Number} = 1000 * \text{INT}(\text{N} + 91 - \text{S}) + \text{INT}(\text{E} + 180 - \text{W})$$

where N and S are latitudes north and south, and E and W are longitudes east and west

Gridsquare Number	Percentage Release
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36111	9.698E-06
36112	7.492E-05
36113	4.583E-05
37110	2.346E-04
37111	1.940E-05
37112	6.171E-05
37113	2.291E-05
38109	1.940E-05
39108	5.201E-05
39109	2.291E-05
39110	2.291E-05
39111	4.583E-05
40108	2.291E-05
40111	2.291E-05
40112	4.583E-05
41108	2.291E-05
41109	4.583E-05
41110	2.291E-05
41112	6.875E-05
41113	4.583E-05
42109	6.875E-05
42110	4.583E-05
42113	2.291E-05
42114	2.291E-05
43107	1.940E-05
43108	1.940E-05
43109	4.583E-05
43110	2.291E-05
43113	4.583E-05
43114	1.146E-04
43115	9.166E-05
44108	2.909E-05

44109 5.553E-05
44110 6.875E-05
44112 9.166E-05
44113 4.583E-05
44348 4.862E-04
44349 3.403E-03
44350 1.459E-03
45108 4.849E-05
45109 9.784E-05
45110 4.583E-05
45111 9.167E-05
45112 1.375E-04
45113 6.227E-04
45114 2.292E-05
45348 7.292E-04
45349 1.702E-03
45350 2.674E-03
45351 3.160E-03
46108 1.940E-05
46109 9.432E-05
46110 6.875E-05
46112 2.292E-05
46113 4.583E-05
46114 9.167E-05
46115 4.583E-05
46351 2.431E-04
46352 2.674E-03
47107 9.698E-06
47108 9.698E-06
47109 8.815E-05
47110 1.375E-04
47111 4.583E-05
47113 2.292E-05
47114 4.583E-05
47115 4.916E-04
47328 1.448E-04
47351 4.862E-04
47352 1.215E-03
47353 1.861E-02
48106 9.698E-06
48107 1.261E-04
48108 5.819E-05
48109 1.375E-04
48110 2.292E-05
48111 6.875E-05
48112 2.292E-05

48115 6.875E-05
48116 9.167E-05
48117 9.167E-05
48326 5.791E-04
48327 5.791E-04
48328 7.267E-03
48329 1.448E-04
48351 7.292E-04
48352 2.431E-03
48353 1.215E-03
48354 7.292E-04
49107 1.358E-04
49108 2.177E-04
49109 4.059E-04
49110 1.375E-04
49111 9.167E-05
49112 4.583E-05
49114 4.583E-05
49115 9.167E-05
49117 6.875E-05
49118 2.292E-05
49326 1.737E-03
49327 3.330E-03
49328 5.335E-03
49329 7.239E-04
49352 1.215E-03
49353 4.862E-04
49354 4.132E-03
49355 1.622E-02
50107 2.733E-04
50108 9.698E-05
50109 1.243E-04
50110 1.833E-04
50111 4.583E-05
50112 4.583E-05
50113 4.583E-05
50114 4.583E-05
50115 9.167E-05
50116 1.833E-04
50117 1.146E-04
50118 1.833E-04
50326 7.239E-04
50328 2.896E-04
50329 2.896E-04
50353 7.292E-04
50355 7.292E-04

50356 1.063E-02
50357 1.945E-03
51107 2.516E-04
51108 2.715E-04
51109 6.523E-05
51110 4.583E-05
51111 2.292E-05
51112 4.583E-05
51113 1.146E-04
51114 4.583E-05
51115 1.375E-04
51118 6.875E-05
51354 1.459E-03
51355 8.508E-03
51356 6.563E-03
51357 9.888E-03
51358 1.459E-03
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52108 7.682E-04
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52122 3.934E-04
52123 9.167E-05
52321 4.343E-04
52322 1.882E-03
52323 3.620E-03
52324 4.488E-03
52325 2.482E-03
52326 1.975E-02
52327 4.054E-03
52328 8.687E-04
52355 3.889E-03
52356 8.265E-03
52357 5.105E-03
52358 5.834E-03

52359 1.945E-03
53107 4.075E-04
53108 4.290E-04
53109 3.879E-05
53110 6.875E-05
53111 2.292E-05
53112 2.292E-05
53113 4.583E-05
53114 2.292E-05
53115 4.583E-05
53116 1.833E-04
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53118 4.354E-04
53119 2.750E-04
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53121 5.814E-04
53122 2.750E-04
53123 2.308E-03
53124 4.583E-05
53321 5.647E-03
53322 3.185E-03
53323 4.778E-03
53324 8.201E-03
53325 6.660E-03
53326 1.744E-01
53327 2.751E-03
53328 3.620E-03
53329 2.606E-03
53330 2.172E-03
53355 4.132E-03
53356 1.997E-02
53357 2.917E-03
53358 7.292E-04
53359 1.702E-03
54107 7.753E-04
54108 4.930E-04
54109 1.067E-04
54111 2.292E-05
54112 6.875E-05
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57318 3.041E-03

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58325 7.239E-04
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58328 1.882E-03
58329 2.896E-03
58330 4.054E-03
58331 2.027E-03
58332 4.022E-02
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60113 2.292E-05
60114 1.604E-04
60115 1.375E-04
60116 2.064E-03
60117 1.146E-04
60118 1.375E-04
60119 3.208E-04
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60121 1.833E-04
60122 2.292E-04
60123 1.835E-04
60124 1.368E-04
60125 4.735E-04
60126 1.795E-04
60127 2.468E-04
60128 2.562E-04
60129 3.257E-03
60130 8.976E-05
60198 1.151E-03
60200 7.672E-04
60201 7.672E-04
60202 7.672E-04
60203 1.151E-03
60204 1.918E-03
60205 2.685E-03
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60211 5.370E-03
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60301 5.791E-04

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60306 2.896E-04
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60309 1.448E-04
60311 1.448E-04
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60320 1.158E-03
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105305	1.180E-04
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106097	1.084E-04
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106166	9.899E-05
106167	1.320E-04
106168	3.300E-05
106169	4.519E-05
106170	4.519E-05
106171	5.084E-05
106172	6.214E-05
106173	4.519E-05
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106175	2.260E-05
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106178	4.519E-05
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106185	3.667E-05
106186	3.667E-05
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122173	9.467E-04
122174	6.086E-04
122175	5.410E-04
122176	1.217E-03
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122178	2.566E-03
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122193	4.233E-04
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122207	1.279E-03
122208	2.398E-03

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132217	2.247E-03
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132222	8.682E-03
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132226	1.028E-02
132227	4.545E-03
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136280	9.059E-05
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140207	1.150E-02
140208	1.026E-02
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140215	1.062E-02
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140217	2.345E-02
140218	8.014E-03
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140223	1.388E-03
140224	2.012E-03
140225	1.650E-03
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140227	6.998E-04
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140268	4.024E-05
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140272	2.718E-04
140273	4.530E-04
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153197	2.086E-03
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153204	3.638E-03
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153206	5.890E-03
153207	9.094E-04
153208	6.888E-03
153209	9.094E-04
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153217	8.048E-05
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153233	8.048E-05

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153236	6.036E-05
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153238	6.036E-05
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153255	7.646E-04
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153278	1.409E-05
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156163	1.183E-04
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156165	5.915E-05
156166	2.958E-04
156167	3.549E-04

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156237	3.622E-04
156238	2.596E-03
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160352	6.036E-05
160353	8.048E-05
160354	1.007E-05
160359	1.811E-04
161020	5.035E-05
161023	2.267E-05
161030	3.651E-05
161032	9.327E-06
161037	2.347E-05
161063	2.995E-05
161112	4.696E-05
161202	5.381E-04
161203	5.381E-04
161204	7.992E-04
161205	1.076E-04
161206	5.381E-04

161207	3.229E-04
161208	5.381E-04
161209	8.610E-04
161210	5.381E-04
161211	3.229E-04
161212	3.229E-04
161253	2.012E-05
161254	2.012E-05
161255	2.012E-05
161259	2.012E-05
161263	1.007E-05
161264	2.012E-05
161275	1.409E-05
161294	2.012E-05
161295	2.012E-05
161308	1.409E-05
161311	1.409E-05
161314	1.409E-05
161315	1.811E-04
161316	8.048E-05
161317	3.017E-05
161320	1.208E-05
161321	5.029E-05
161322	1.208E-05
161325	4.020E-06
161328	7.041E-05
161329	4.020E-06
161334	8.041E-06
161351	1.007E-05
162024	3.507E-04
162055	1.038E-05
162209	2.152E-04
162252	2.012E-05
162257	2.012E-05
162263	6.030E-06
162264	1.007E-05
162273	1.409E-05
162275	1.409E-05
162280	3.017E-05
162282	1.409E-05
162283	4.024E-05
162284	1.409E-05
162291	1.409E-05
162295	2.012E-05
162304	1.007E-05
162308	3.017E-05

162309	2.012E-04
162310	1.409E-05
162317	4.828E-05
162330	6.030E-06
163103	8.091E-05
163253	2.012E-05
163283	1.409E-05
163286	1.409E-05
163294	2.012E-05
163300	4.024E-05
163301	2.012E-05
164088	8.508E-06
164095	4.509E-05
164096	2.442E-05
164261	6.036E-05
164289	1.409E-05
164290	1.409E-05
164307	1.409E-05
165086	1.421E-05
167098	1.080E-05