

Table S1: VMR data (ppt) for the 30 averaged bins spanning the latitudes 70°S to 80°N between the altitudes of 8 and 30 km used for the contour plot for the global distribution of carbon tetrachloride.

Latitude (degree)	Altitude (km)						
	8	9	10	11	12	13	14
70°S-65°S	103.0	100.7	96.4	89.5	83.9	77.4	69.7
65°S-60°S	100.6	101.3	96.9	91.6	86.0	80.5	73.6
60°S-55°S	107.9	102.3	98.8	92.0	88.2	83.1	76.8
55°S-50°S	110.6	109.2	105.4	98.6	94.1	88.3	82.6
50°S-45°S	110.0	111.0	105.6	100.4	94.9	92.0	87.1
45°S-40°S	117.2	117.7	113.0	104.9	101.1	96.4	91.1
40°S-35°S	109.8	117.0	114.8	107.0	106.1	101.0	95.8
35°S-30°S	117.7	124.6	119.0	112.4	108.8	106.2	98.7
30°S-25°S	124.0	126.8	126.3	116.3	109.6	104.6	101.4
25°S-20°S	133.7	123.6	115.5	115.7	109.6	107.7	104.7
20°S-15°S	115.7	117.1	116.6	111.7	112.2	108.2	105.2
15°S-10°S	114.8	115.9	113.0	116.1	115.1	111.0	105.2
10°S-5°S	114.0	126.9	117.2	113.2	116.0	109.9	107.8
5°S-0°	109.6	124.5	117.4	115.0	117.3	110.5	104.9
0°-5°N	108.7	113.3	117.5	117.9	115.7	110.8	107.0
5°N-10°N	93.0	116.7	121.0	119.5	115.1	106.7	104.4
10°N-15°N	109.3	130.1	125.5	122.6	115.8	112.3	105.6
15°N-20°N	113.0	119.7	118.1	117.5	114.9	109.4	105.8
20°N-25°N	136.1	130.1	129.0	122.9	117.7	111.0	106.6
25°N-30°N	135.0	126.8	125.3	120.2	119.1	112.4	103.3
30°N-35°N	127.6	135.9	130.4	119.4	116.7	111.2	104.6
35°N-40°N	126.8	131.9	132.1	124.9	117.4	109.0	99.3
40°N-45°N	126.3	133.1	125.3	118.6	110.8	100.7	92.9
45°N-50°N	130.7	124.9	122.0	114.5	108.7	98.2	90.5
50°N-55°N	126.6	124.1	116.5	107.2	99.2	93.4	86.9
55°N-60°N	121.9	116.8	108.1	101.4	94.0	86.6	78.9
60°N-65°N	116.4	113.6	108.5	98.6	90.0	83.1	75.9
65°N-70°N	119.1	115.7	108.5	98.8	90.5	83.1	75.6
70°N-75°N	114.2	109.1	103.9	94.1	86.2	77.8	69.9
75°N-80°N	112.0	107.4	99.9	90.9	82.3	74.5	65.4

Latitude (degree)	Altitude (km)						
	15	16	17	18	19	20	21
70°S-65°S	60.9	50.2	39.7	30.8	23.3	17.3	13.7
65°S-60°S	65.3	55.5	44.8	34.7	26.2	19.7	15.5
60°S-55°S	70.9	63.1	53.0	42.6	32.8	24.9	18.8
55°S-50°S	76.3	69.1	60.2	49.3	38.2	28.9	21.9
50°S-45°S	83.1	76.7	69.0	59.1	47.4	36.8	28.0
45°S-40°S	87.9	84.1	76.7	66.9	55.7	44.5	33.8
40°S-35°S	92.6	88.8	83.3	74.3	63.0	51.5	40.7
35°S-30°S	97.6	94.2	90.9	84.8	73.5	59.5	46.0
30°S-25°S	100.2	98.9	98.7	91.5	82.1	67.4	54.3
25°S-20°S	102.3	101.4	100.1	96.1	85.6	74.7	60.6
20°S-15°S	103.0	101.7	103.5	103.9	94.8	83.3	69.8
15°S-10°S	104.3	106.0	104.4	103.9	99.5	86.5	75.3
10°S-5°S	105.7	99.5	104.7	104.5	96.6	88.5	77.1
5°S-0°	101.5	104.5	105.5	104.2	98.0	91.0	82.4
0°-5°N	106.9	106.1	106.5	102.2	99.3	88.4	81.6

5°N-10°N	100.8	105.6	104.5	102.8	94.5	88.4	77.0
10°N-15°N	106.0	103.2	106.7	102.1	97.3	88.1	76.9
15°N-20°N	102.4	101.8	105.2	100.2	94.3	83.6	73.3
20°N-25°N	104.6	102.7	101.0	101.2	92.9	78.1	67.4
25°N-30°N	103.9	102.8	99.6	95.6	86.4	73.8	61.2
30°N-35°N	100.5	99.3	95.8	90.0	81.5	67.8	54.8
35°N-40°N	94.9	93.7	90.4	83.0	73.8	63.0	48.6
40°N-45°N	89.5	85.5	80.0	73.0	62.6	50.8	39.5
45°N-50°N	86.4	81.9	76.1	68.0	57.6	46.2	35.5
50°N-55°N	81.2	76.3	70.2	61.6	51.0	40.9	32.1
55°N-60°N	74.1	68.0	60.5	51.3	42.3	33.6	26.4
60°N-65°N	69.4	62.1	53.7	45.5	36.2	28.1	22.1
65°N-70°N	69.5	61.9	53.3	44.2	34.8	26.7	21.5
70°N-75°N	61.5	51.9	41.3	32.6	26.8	21.9	18.5
75°N-80°N	55.4	45.5	38.2	30.9	23.9	18.8	15.0

Latitude (degree)	Altitude (km)						
	22	23	24	25	26	27	28
70°S-65°S	13.5	14.9	17.5	18.0	11.9	4.0	1.6
65°S-60°S	14.3	15.9	18.4	18.6	14.1	5.2	2.1
60°S-55°S	14.9	14.9	18.1	19.2	16.4	7.6	3.0
55°S-50°S	17.1	16.2	19.4	20.7	18.7	12.7	5.1
50°S-45°S	20.8	17.7	17.4	20.5	21.2	16.8	8.6
45°S-40°S	24.6	19.7	17.4	22.2	20.5	18.7	13.9
40°S-35°S	30.7	23.2	18.6	18.1	19.9	19.5	17.6
35°S-30°S	33.9	24.7	20.5	19.5	24.6	22.1	18.6
30°S-25°S	42.9	32.5	23.3	21.7	23.3	24.3	24.9
25°S-20°S	48.1	38.9	31.5	23.6	20.7	23.5	22.2
20°S-15°S	56.0	44.9	35.7	29.1	27.2	28.1	26.5
15°S-10°S	65.8	53.5	41.8	35.0	29.4	25.9	25.7
10°S-5°S	69.8	58.4	44.6	36.9	32.8	25.3	23.8
5°S-0°	73.6	64.1	47.3	36.4	30.8	26.4	24.4
0°-5°N	73.3	60.7	44.7	35.5	31.4	27.4	24.6
5°N-10°N	66.7	57.6	45.2	32.9	28.3	26.8	26.1
10°N-15°N	65.9	56.3	44.0	34.0	30.1	30.1	27.9
15°N-20°N	62.1	48.3	37.7	30.9	25.9	26.2	27.1
20°N-25°N	55.6	42.8	33.3	29.1	25.9	26.3	21.5
25°N-30°N	49.6	38.1	29.7	26.7	28.2	29.4	22.9
30°N-35°N	43.0	33.2	26.9	24.7	25.5	21.9	21.1
35°N-40°N	36.6	26.7	22.1	21.6	26.7	24.0	19.7
40°N-45°N	30.3	25.4	21.3	24.0	21.7	17.2	14.2
45°N-50°N	27.6	22.7	21.7	22.9	24.4	19.8	9.8
50°N-55°N	25.2	22.1	23.2	25.1	18.8	11.8	5.5
55°N-60°N	21.6	19.5	21.6	21.5	19.8	10.4	4.1
60°N-65°N	19.8	21.2	21.5	20.3	14.7	5.2	2.1
65°N-70°N	19.6	20.2	20.9	20.0	11.4	3.8	1.5
70°N-75°N	17.6	18.9	20.9	19.0	10.8	3.6	1.5
75°N-80°N	15.6	17.6	20.9	19.3	7.0	2.9	1.1

Latitude (degree)	Altitude (km)	
	29	30
70°S-65°S	0.8	0.2
65°S-60°S	1.0	0.2
60°S-55°S	1.5	0.3
55°S-50°S	2.5	0.5
50°S-45°S	4.3	0.9
45°S-40°S	7.0	1.4

40°S-35°S	10.2	2.0
35°S-30°S	15.9	3.4
30°S-25°S	17.5	4.0
25°S-20°S	20.3	4.9
20°S-15°S	25.0	6.3
15°S-10°S	24.3	9.1
10°S-5°S	20.7	8.4
5°S-0°	22.6	9.3
0°-5°N	25.3	10.3
5°N-10°N	24.9	11.3
10°N-15°N	20.7	6.9
15°N-20°N	22.7	7.8
20°N-25°N	20.8	5.8
25°N-30°N	19.9	4.0
30°N-35°N	16.1	3.2
35°N-40°N	10.5	2.2
40°N-45°N	7.2	1.4
45°N-50°N	5.0	1.0
50°N-55°N	2.8	0.6
55°N-60°N	2.1	0.4
60°N-65°N	1.0	0.2
65°N-70°N	0.8	0.2
70°N-75°N	0.7	0.1
75°N-80°N	0.6	0.1

Table S2: The data points for the VMR (ppt) average for each latitudinal zone between the altitudes of 8 and 30 km.

Latitude (degree)	Altitude (km)						
	8	9	10	11	12	13	14
90°S-60°S	71.2	73.6	71.5	67.5	62.8	59.1	53.4
60°S-45°S	109.5	107.5	103.3	97.0	92.4	87.8	82.2
45°S-20°S	120.5	121.9	117.7	111.2	107.0	103.2	98.3
20°S-20°N	109.8	120.5	118.3	116.7	115.3	112.0	105.8
45°N-20°N	130.4	131.6	128.4	121.2	116.4	108.9	101.3
60°N-45°N	126.4	122.0	115.5	107.7	100.6	92.8	85.5
90°N-60°N	106.6	102.7	97.1	88.2	80.3	73.3	66.1

Latitude (degree)	Altitude (km)						
	15	16	17	18	19	20	21
90°S-60°S	46.9	38.6	29.9	22.0	15.9	12.1	10.0
60°S-45°S	76.8	69.6	60.7	50.4	39.4	30.2	22.9
45°S-20°S	96.1	93.5	89.9	82.7	72.0	59.5	47.1
20°S-20°N	103.8	103.6	105.1	103.0	96.8	87.2	76.7
45°N-20°N	98.7	96.8	93.4	88.6	79.4	66.7	54.3
60°N-45°N	80.6	75.4	68.9	60.3	50.3	40.2	31.3
90°N-60°N	58.7	50.5	42.3	34.3	26.7	20.4	16.3

Latitude (degree)	Altitude (km)						
	22	23	24	25	26	27	28
90°S-60°S	9.3	10.6	12.5	14.2	7.7	2.7	1.1
60°S-45°S	17.6	16.2	18.3	20.1	18.8	12.4	5.6
45°S-20°S	36.0	27.8	22.3	21.0	21.8	21.6	19.4
20°S-20°N	66.7	55.5	42.6	33.8	29.5	27.0	25.8
45°N-20°N	43.0	33.3	26.7	25.2	25.6	23.8	19.9

60°N-45°N	24.8	21.5	22.1	23.2	21.0	14.0	6.5
90°N-60°N	15.2	17.0	18.4	17.2	8.7	3.0	1.2
Latitude	Altitude (km)						
(degree)	29	30					
90°S-60°S	0.5	0.1					
60°S-45°S	2.8	0.6					
45°S-20°S	14.2	3.1					
20°S-20°N	23.3	8.7					
45°N-20°N	14.9	3.3					
60°N-45°N	3.3	0.7					
90°N-60°N	0.6	0.1					