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Supplement of

Atmospheric mercury in the Southern Hemisphere – Part 2: Source apportionment analysis at Cape Point station, South Africa

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Supporting information

Year	Antarctic	South America	Continental	Eastern Ocean	Atlantic	Local
	Annual median CO mixing ratio in ppb, number of measurements					
2007	60.8, 2955	64.7, 1664	61.9, 421	61.2, 451	61.1, 9648	69.5, 40
2008	59.4, 1874	58.6, 811	79.8, 521	60.4, 457	58.9, 8418	56.2, 6
2009	52.0, 2393	54.4, 935	71.2, 1050	53.8, 652	54.4, 9729	99.3, 29
2010	58.2, 2231	53.4, 929	90.0, 929	52.4, 726	59.3, 10132	69.7, 18
2011	51.5, 2592	55.1, 1093	77.5, 1167	50.0, 1345	54.6, 10705	68.9, 86
2012	56.0, 2789	52.7, 1631	66.6, 580	51.4, 928	56.5, 11296	74.3, 72
2013	49.9, 2898	54.9, 1521	70.8, 530	56.8, 510	53.8, 10388	69.1, 51
2014	53.0, 2163	53.5, 914	82.1, 922	58.5, 917	54.7, 10169	66.2, 80
2015	50.0, 2393	53.2, 1086	64.9, 594	51.8, 487	53.1, 11561	49.9, 40
2015	50.6, 2257	46.9, 1215	75.5, 576	59.5, 642	54.2, 10395	69.2, 68

Table SI1: Annual median CO mixing ratios.

Year	Antarctic	South America	Continental	Eastern Ocean	Atlantic	Local
	Annual median CO ₂ mixing ratio in ppm, number of measurements					
2007	380.84, 2975	380.77, 1698	380.65, 389	380.97, 305	380.83, 9659	381.44, 40
2008	382.93, 2196	382.83, 888	384.29, 609	382.98, 501	383.03, 8942	382.08, 10
2009	384.10, 2342	384.41, 930	385.06, 932	384.25, 643	384.35, 9201	384.98, 22
2010	386.89, 1848	386.11, 892	387.84, 722	387.40, 681	386.71, 8664	387.36, 16
2011	388.40, 2296	388.47, 888	389.09, 965	387.84, 869	388.52, 9198	389.00, 79
2012	390.68, 2425	390.55, 1450	390.57, 507	390.84, 802	390.79, 9899	391.77, 62
2013	392.95, 3002	393.54, 1566	394.20, 532	394.09, 511	393.48, 10581	394.17, 52
2014	395.15, 2223	395.31, 947	396.39, 922	395.93, 925	395.58, 10294	395.43, 80
2015	397.60, 2410	397.94, 1086	398.68, 594	398.31, 487	397.81, 11647	396.93, 40
2015	400.92, 2280	400.92, 1217	401.96, 574	400.46, 649	401.19, 10551	401.98, 68

Table SI2: Annual median CO₂ mixing ratios.

Year	Antarctic	South America	Continental	Eastern Ocean	Atlantic	Local
	Annual median CH ₄ mixing ratio in ppb, number of measurements					
2007	1741.8, 2790	1742.6, 1612	1743.0, 339	1735.6, 312	1739.8, 8884	1743.3, 40
2008	1752.1, 2104	1751.6, 878	1763.6, 578	1750.8, 484	1750.3, 9047	1741.1, 8
2009	1748.1, 2390	1750.1, 888	1760.3, 1058	1741.4, 654	1746.9, 9760	1766.7, 28
2010	1757.3, 2313	1750.4, 979	1772.3, 865	1745.5, 728	1754.2, 10019	1764.15, 18
2011	1762.0, 2583	1763.6, 1098	1776.8, 1135	1743.6, 1291	1760.8, 10609	1770.4, 82
2012	1772.2, 2746	1764.0, 1581	1769.9, 566	1752.3, 872	1765.6, 10912	1779.2, 72
2013	1766.3, 3211	1773.6, 1617	1784.5, 652	1770.7, 520	1768.7, 11135	1780.8, 56
2014	1781.0, 2353	1784.6, 994	1797.0, 816	1789.9, 950	1782.8, 11270	1794.8, 90
2015	1794.1, 2314	1795.6, 1013	1801.0, 651	1788.5, 551	1793.4, 11295	1795.3, 52
2015	1802.1, 1991	1794.0, 1124	1816.1, 584	1789.7, 680	1800.2, 10372	1796.2, 44

Table SI3: Annual median CH₄ mixing ratios.

Year	Antarctic	South America	Continental	Eastern Ocean	Atlantic	Local
	Annual median O ₃ mixing ratio in ppb, number of measurements					
2007	27.2, 2883	26.0, 1625	27.9, 370	21.5, 425	23.4, 9158	27.6, 16
2008	29.2, 2189	27.7, 899	29.7, 558	29.5, 502	25.3, 9076	24.4, 10
2009	25.9, 2470	25.0, 947	28.6, 1026	19.1, 651	23.1, 9885	25.1, 30
2010	29.9, 2307	25.6, 1008	34.8, 935	21.3, 726	26.9, 10569	25.2, 18
2011	28.2, 2494	29.0, 1027	31.5, 1137	19.5, 1364	26.0, 10234	28.5, 88
2012	29.6, 2156	25.3, 1383	24.6, 432	18.4, 748	24.3, 9646	24.8, 39
2013	27.0, 3208	28.1, 1635	29.5, 664	25.1, 512	24.2, 11027	25.7, 56
2014	27.6, 2429	25.3, 1011	31.2, 988	24.9, 984	24.0, 11526	29.8, 98
2015	26.5, 2328	25.1, 999	28.5, 533	22.8, 554	23.2, 11329	24.2, 53
2015	28.3, 2300	23.2, 1270	32.1, 671	22.3, 643	25.4, 10768	26.6, 78

Table SI4: Annual median O₃ mixing ratios.