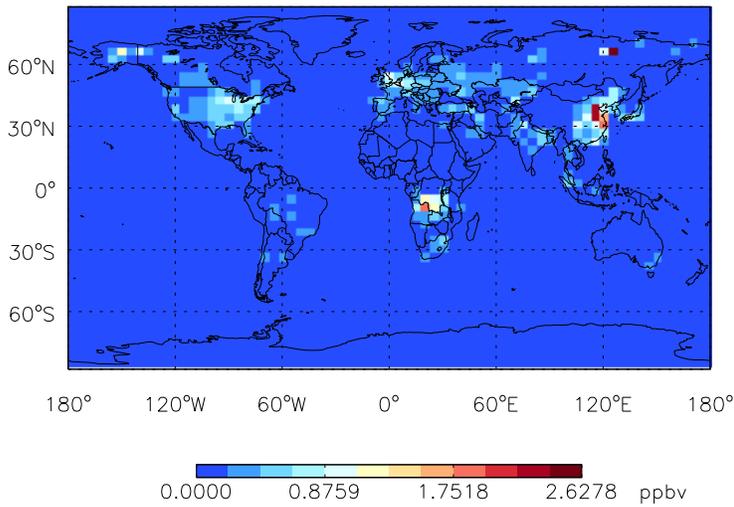


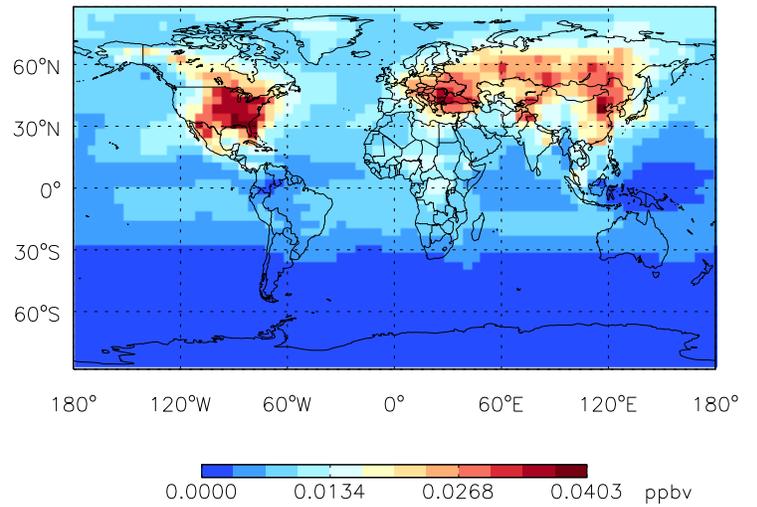
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

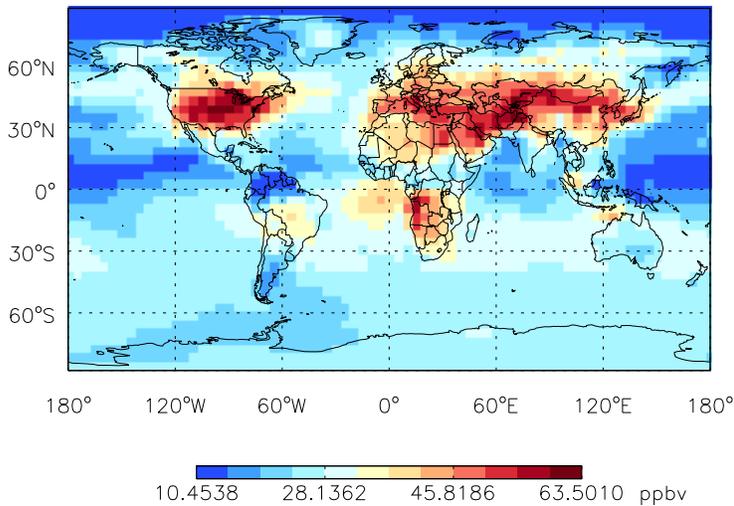
Tracer Map @ Surface - NO



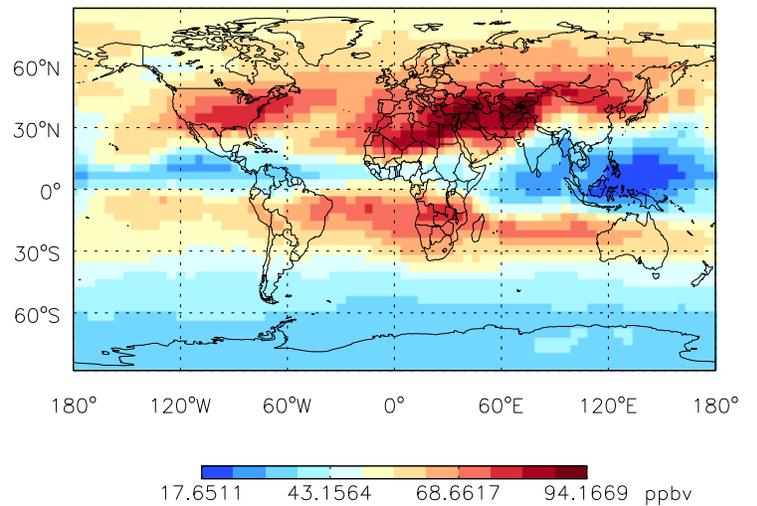
Tracer Map @ 500 hPa - NO



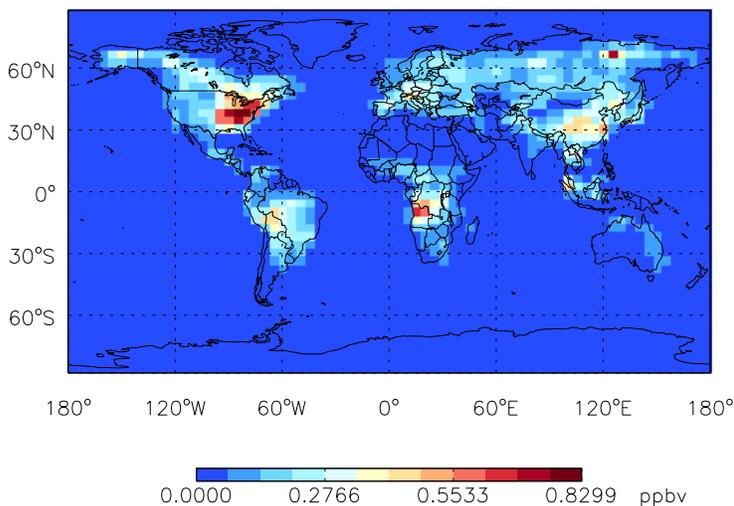
Tracer Map @ Surface - O3



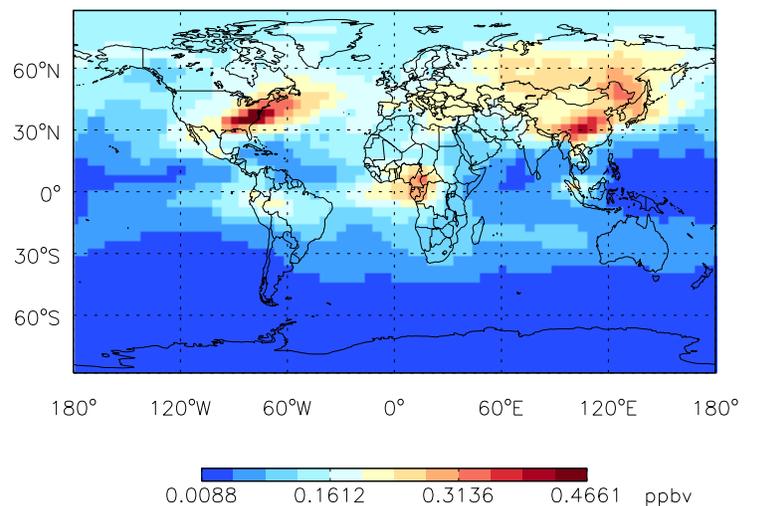
Tracer Map @ 500 hPa - O3



Tracer Map @ Surface - PAN



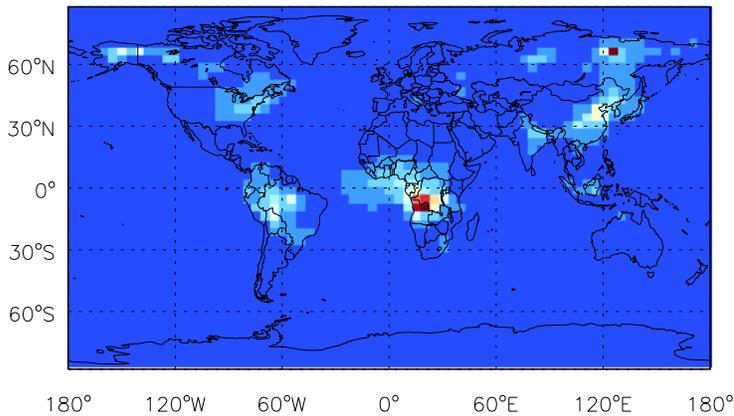
Tracer Map @ 500 hPa - PAN



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

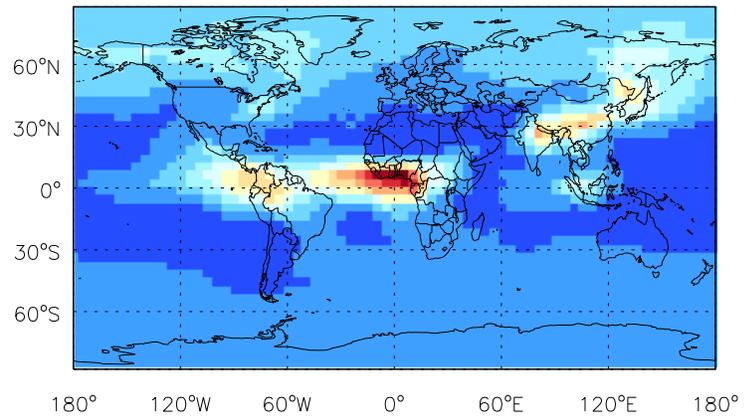
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - CO



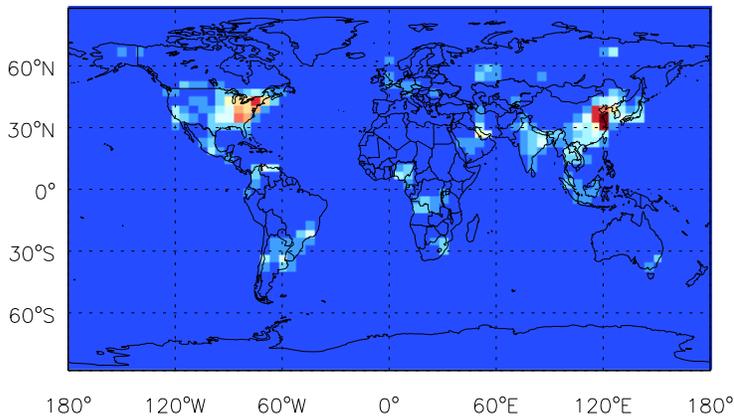
58.5732 356.7816 654.9899 953.1982 ppbv

Tracer Map @ 500 hPa - CO



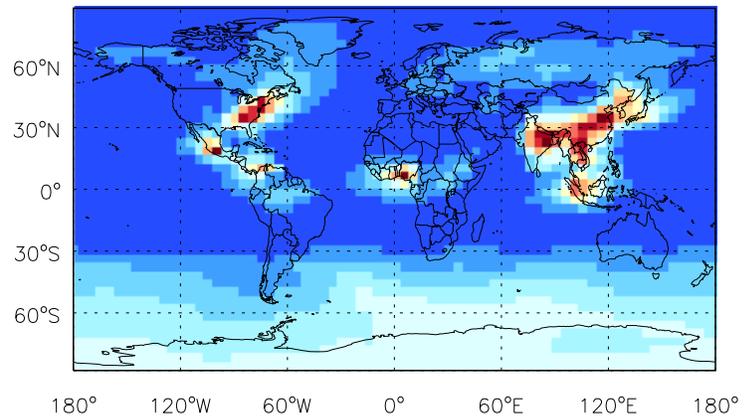
58.0796 89.9194 121.7592 153.5991 ppbv

Tracer Map @ Surface - ALK4



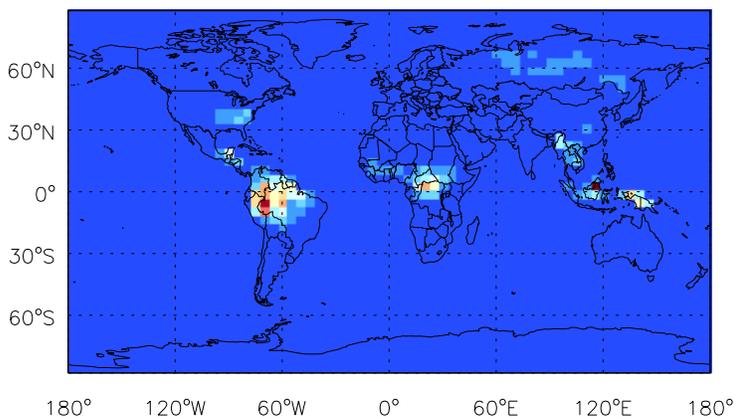
0.0010 5.3047 10.6084 15.9121 ppbC

Tracer Map @ 500 hPa - ALK4



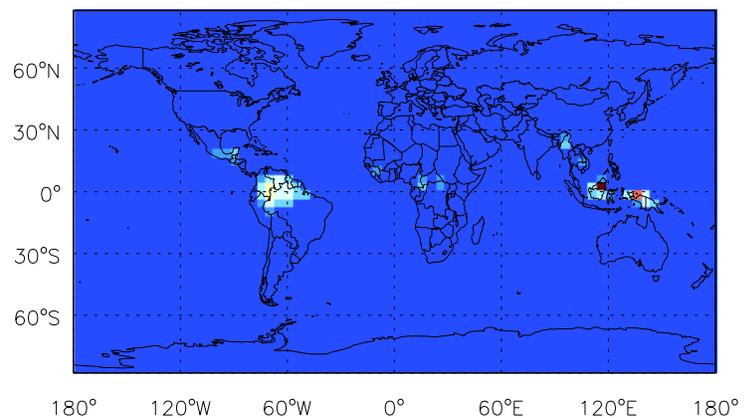
0.0015 0.1797 0.3579 0.5360 ppbC

Tracer Map @ Surface - ISOP



0.0000 20.5279 41.0559 61.5838 ppbC

Tracer Map @ 500 hPa - ISOP

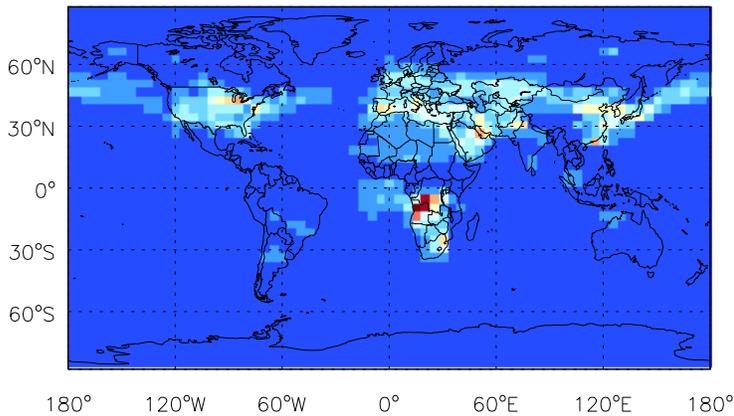


0.0000 0.5897 1.1795 1.7692 ppbC

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

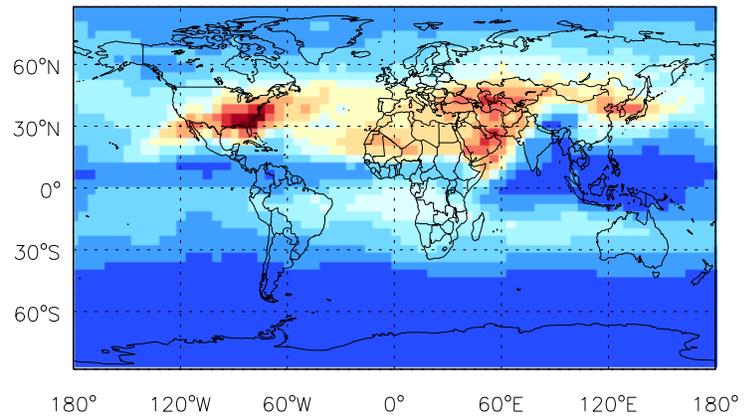
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - HNO₃



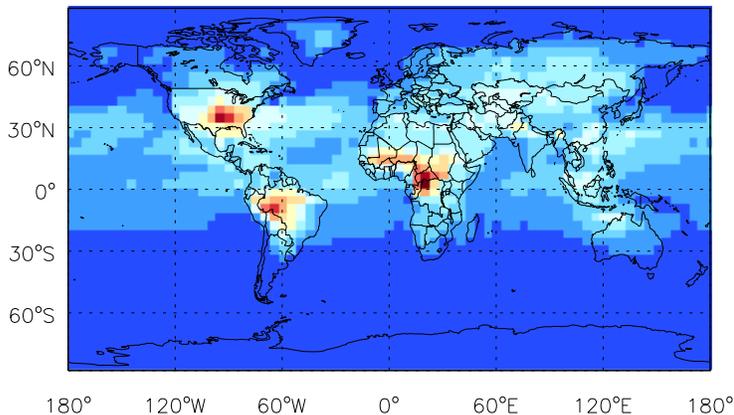
0.0000 1.4546 2.9092 4.3639 ppbv

Tracer Map @ 500 hPa - HNO₃



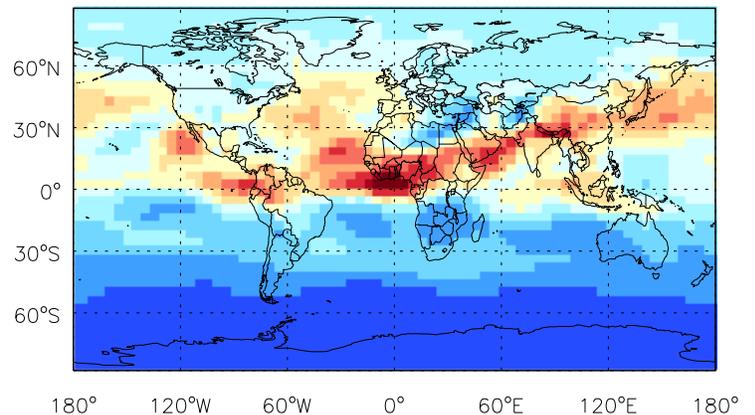
0.0092 0.3175 0.6257 0.9339 ppbv

Tracer Map @ Surface - H₂O₂



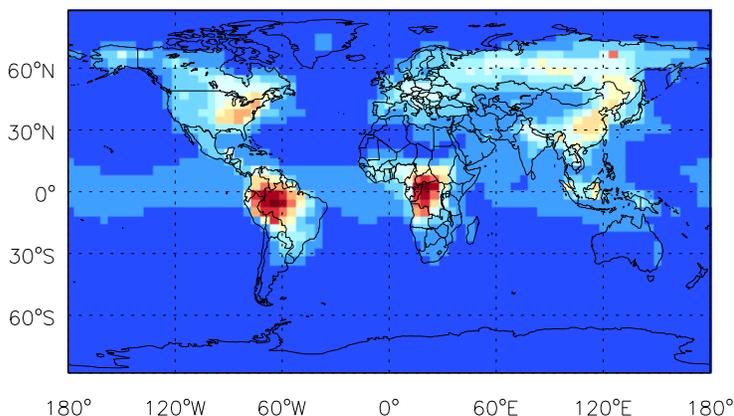
0.0046 1.4302 2.8558 4.2814 ppbv

Tracer Map @ 500 hPa - H₂O₂



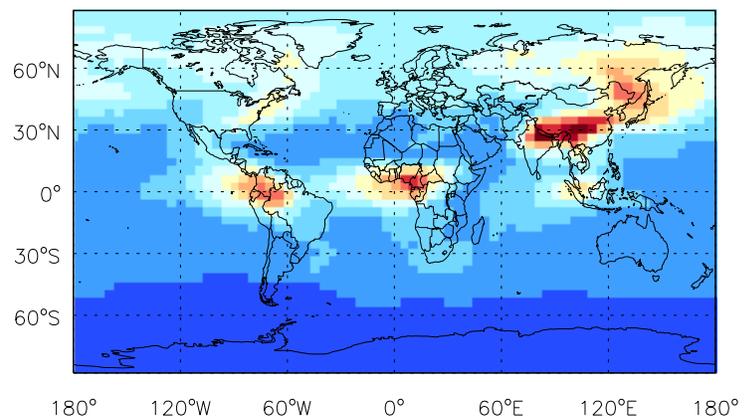
0.0715 0.5643 1.0572 1.5501 ppbv

Tracer Map @ Surface - ACET



0.3962 5.5585 10.7209 15.8833 ppbC

Tracer Map @ 500 hPa - ACET

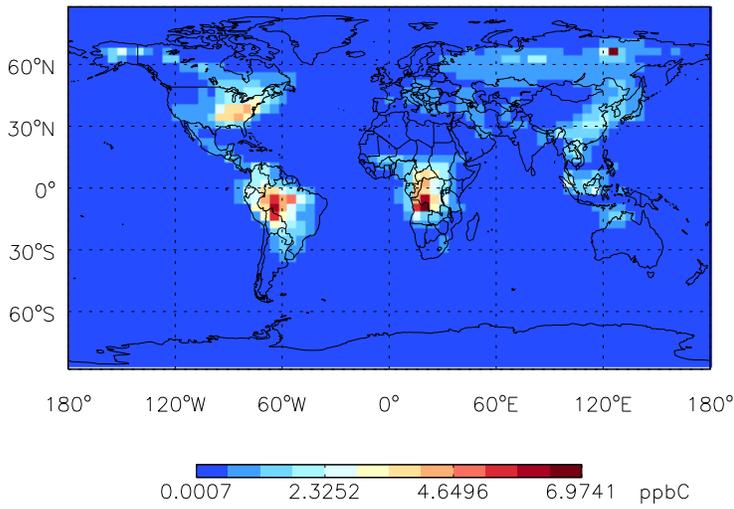


1.0879 2.3145 3.5411 4.7676 ppbC

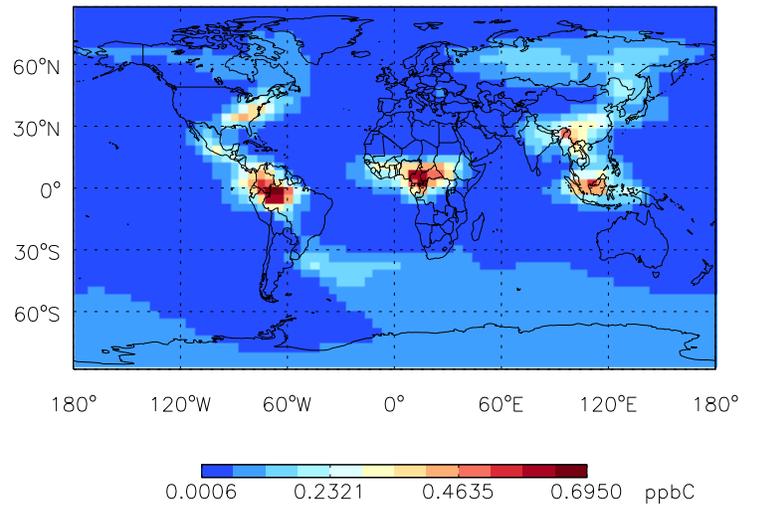
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

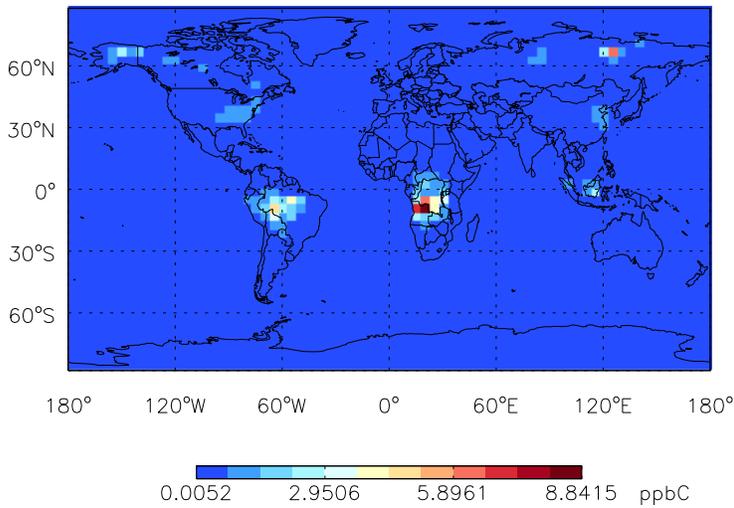
Tracer Map @ Surface – MEK



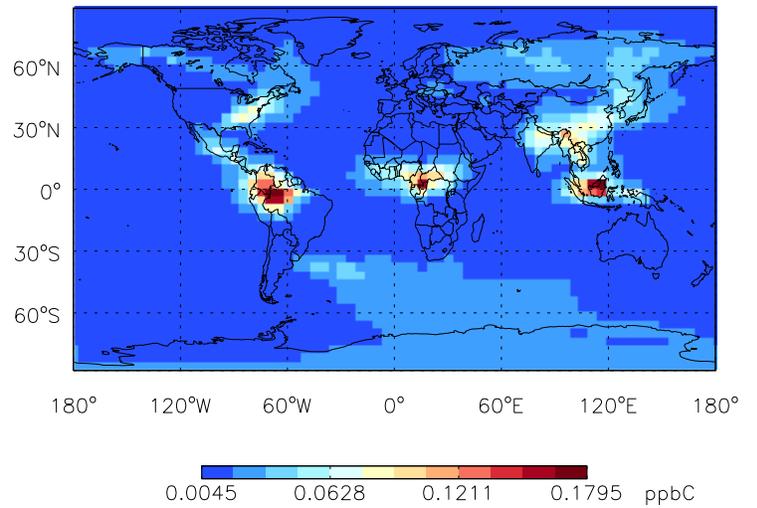
Tracer Map @ 500 hPa – MEK



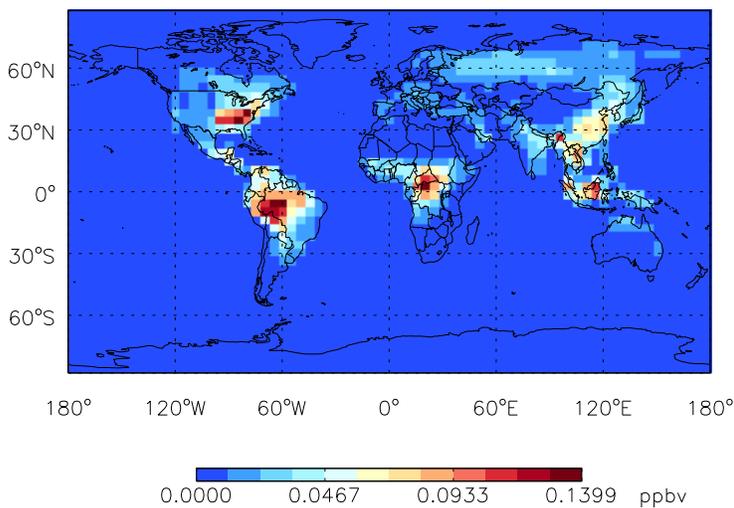
Tracer Map @ Surface – ALD2



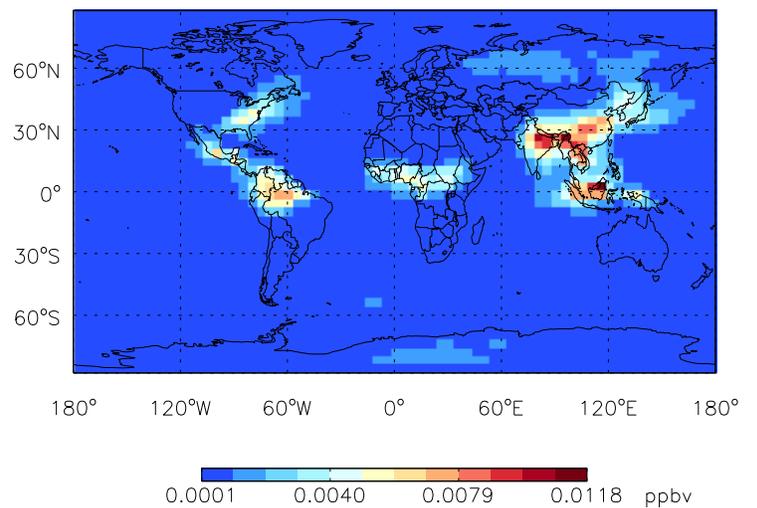
Tracer Map @ 500 hPa – ALD2



Tracer Map @ Surface – RCHO



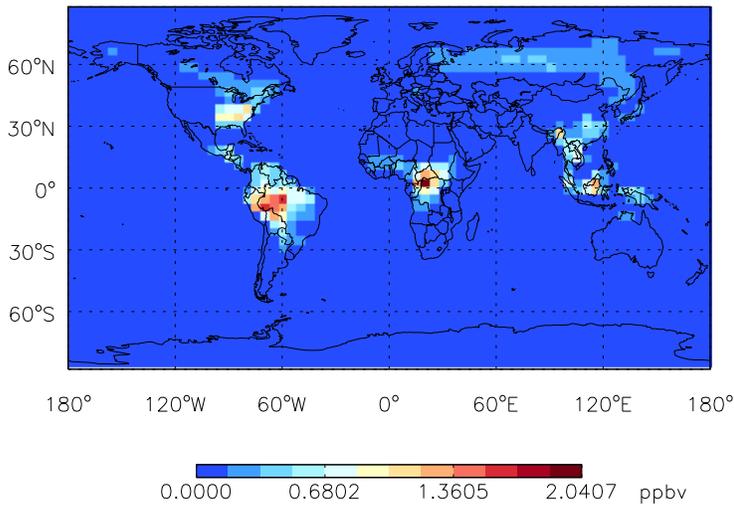
Tracer Map @ 500 hPa – RCHO



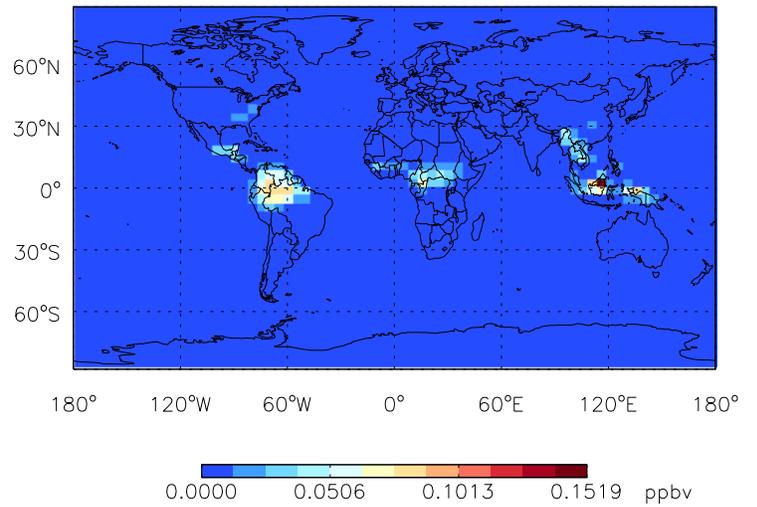
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

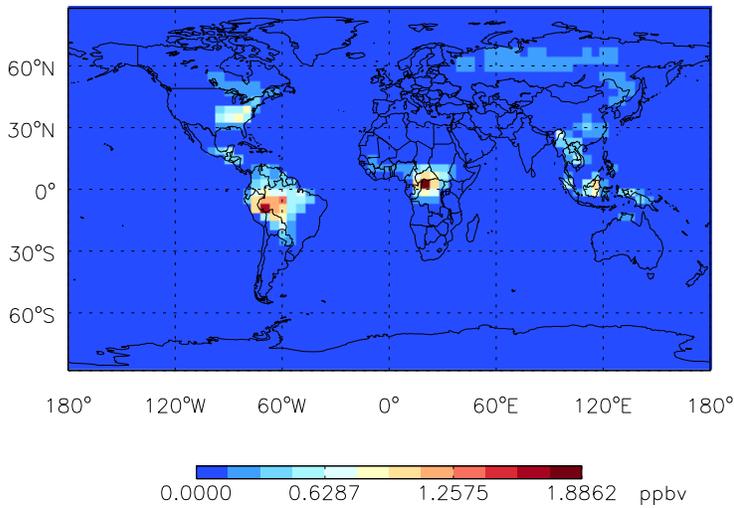
Tracer Map @ Surface - MVK



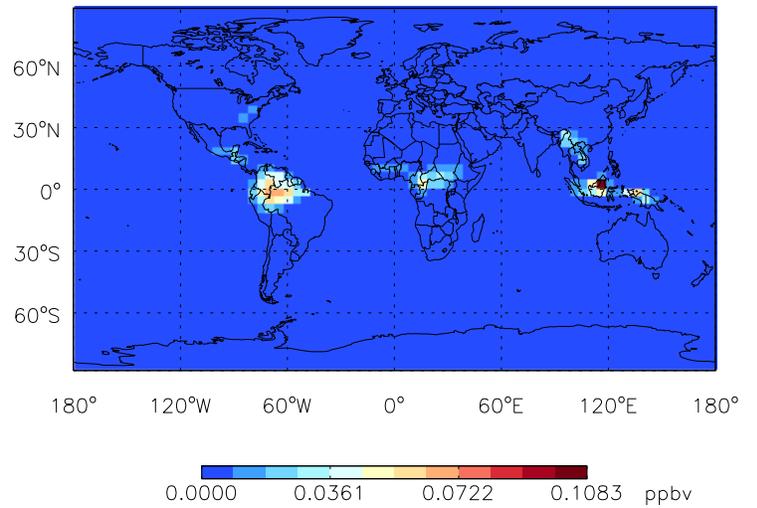
Tracer Map @ 500 hPa - MVK



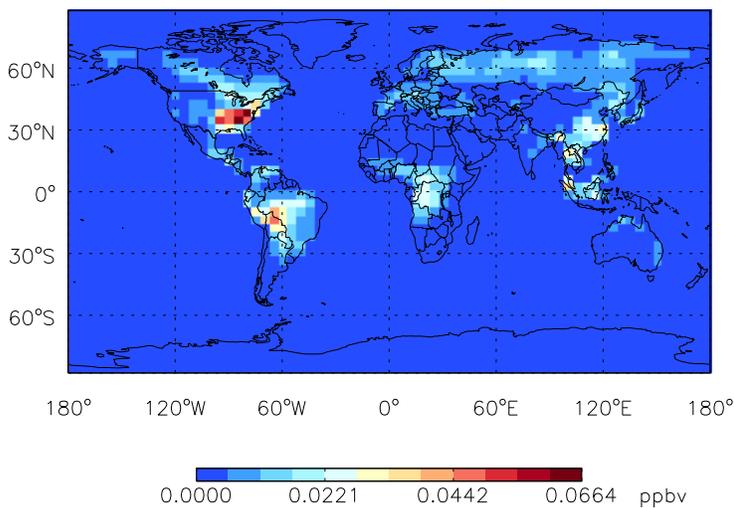
Tracer Map @ Surface - MACR



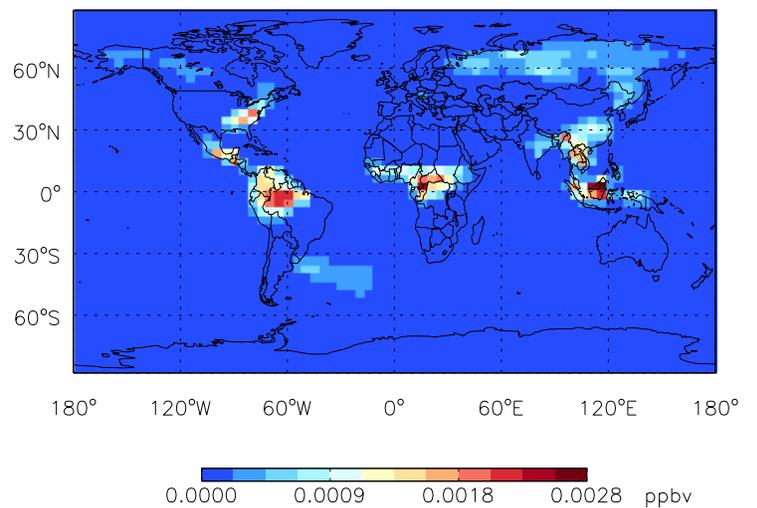
Tracer Map @ 500 hPa - MACR



Tracer Map @ Surface - PMN



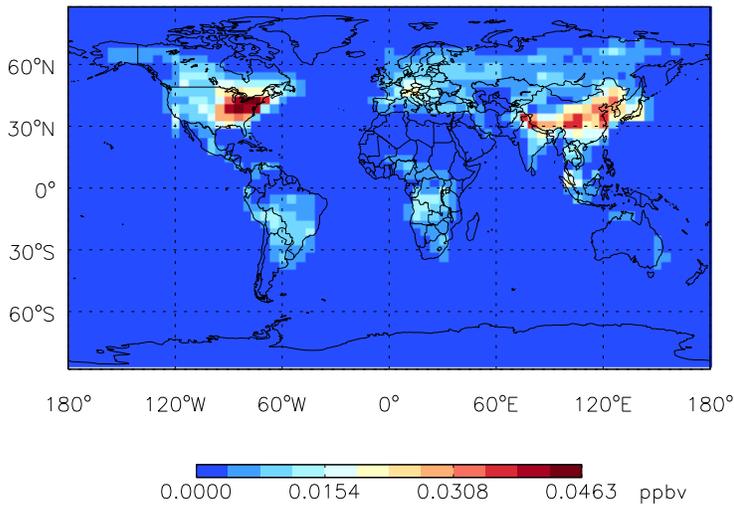
Tracer Map @ 500 hPa - PMN



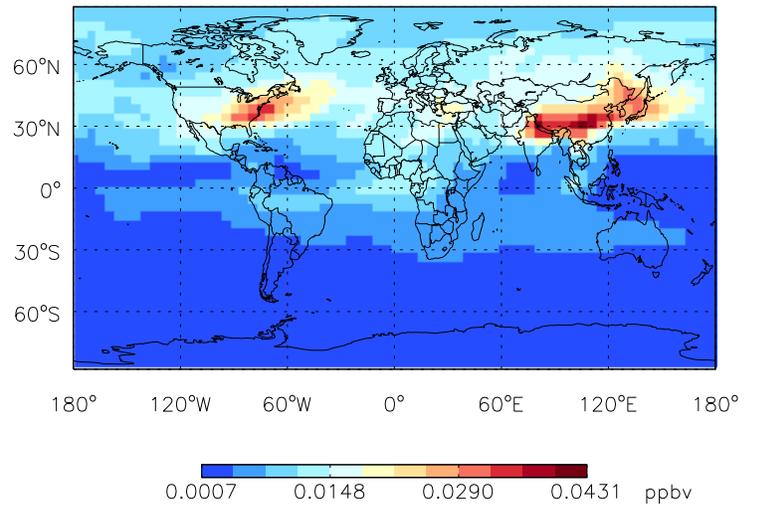
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

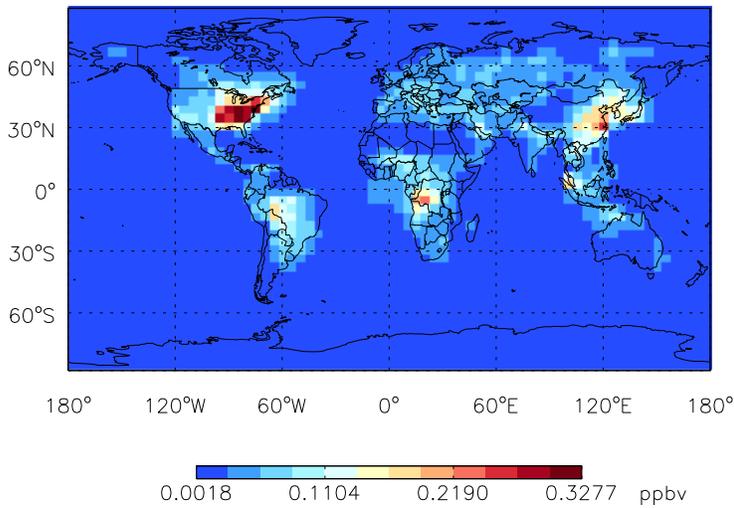
Tracer Map @ Surface - PPN



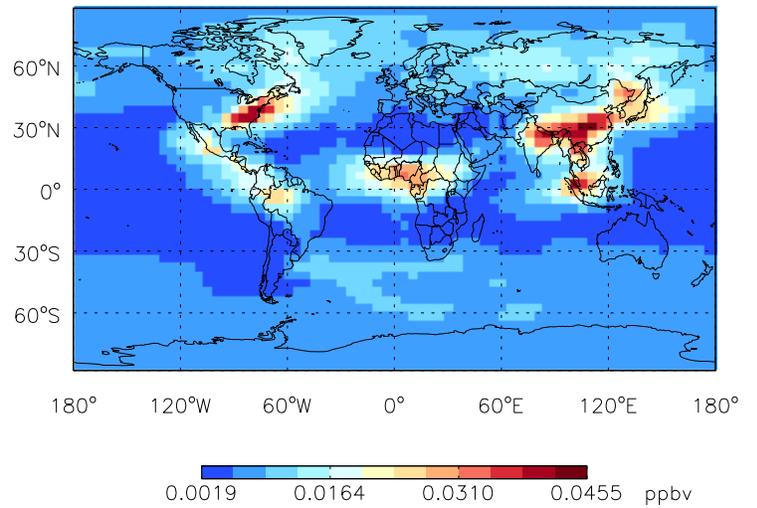
Tracer Map @ 500 hPa - PPN



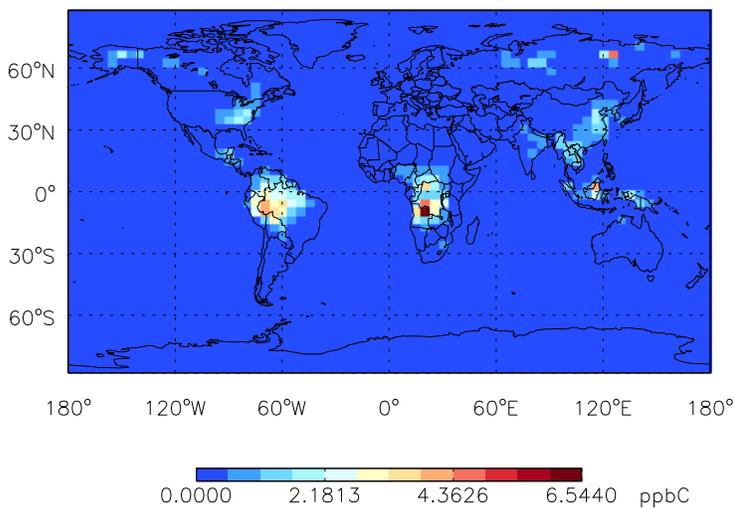
Tracer Map @ Surface - R4N2



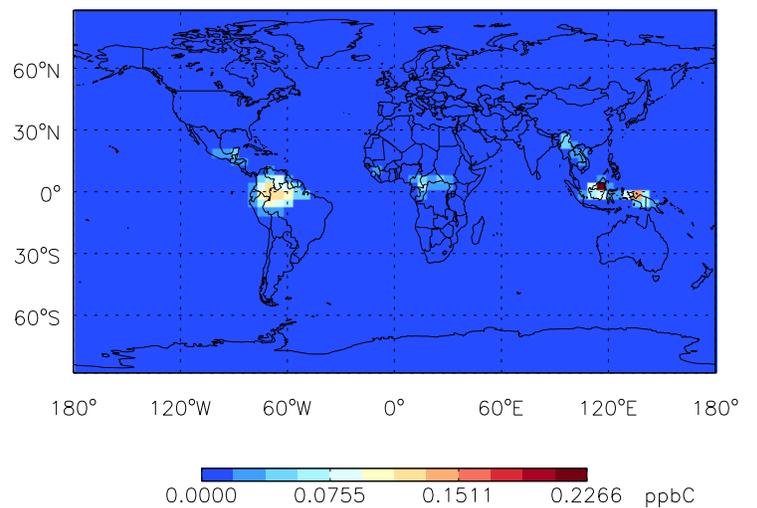
Tracer Map @ 500 hPa - R4N2



Tracer Map @ Surface - PRPE



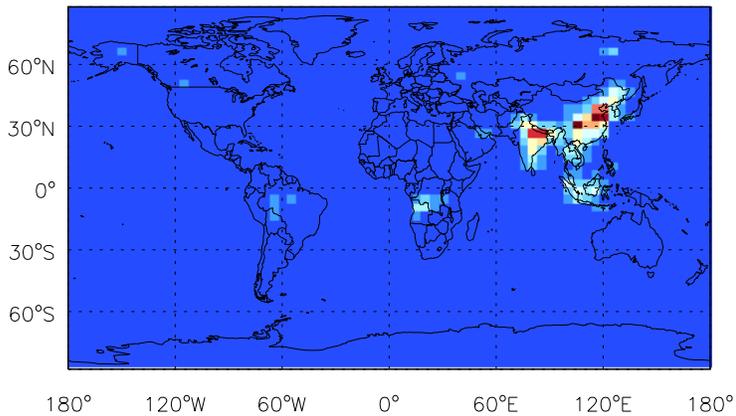
Tracer Map @ 500 hPa - PRPE



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

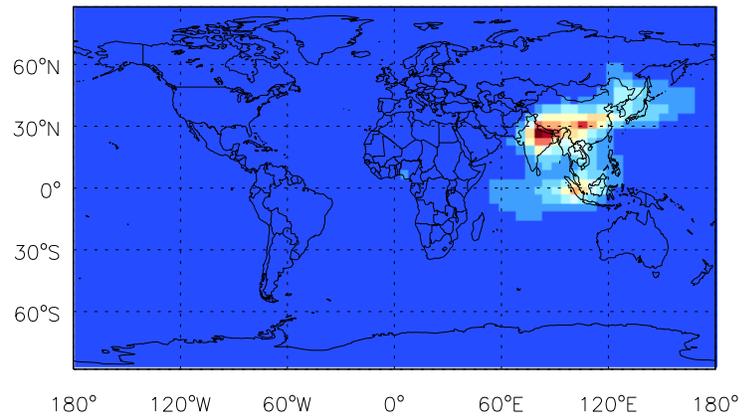
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - C3H8



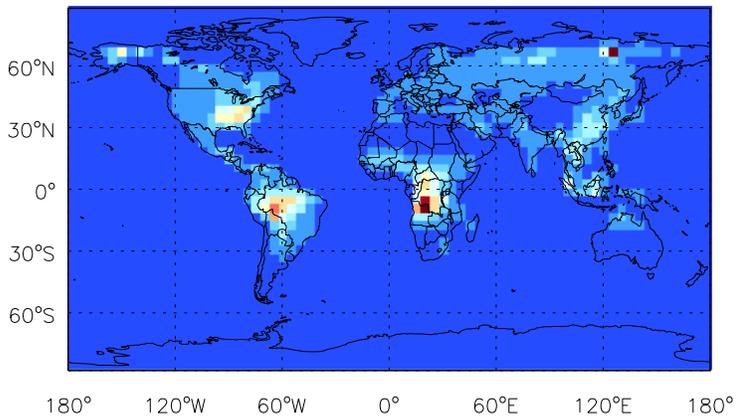
0.0073 5.1952 10.3831 15.5711 ppbC

Tracer Map @ 500 hPa - C3H8



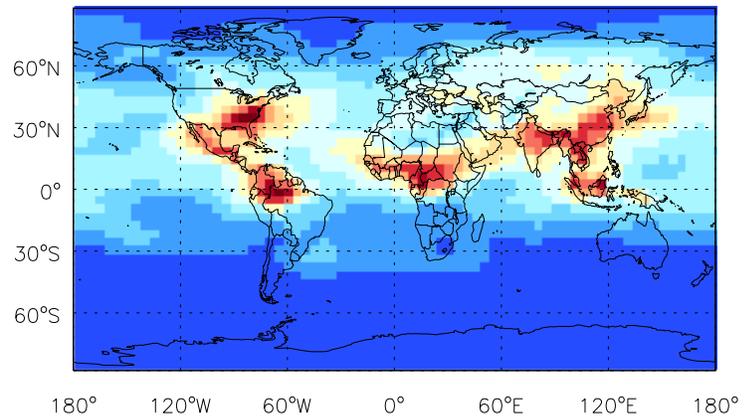
0.0138 0.7710 1.5282 2.2854 ppbC

Tracer Map @ Surface - CH2O



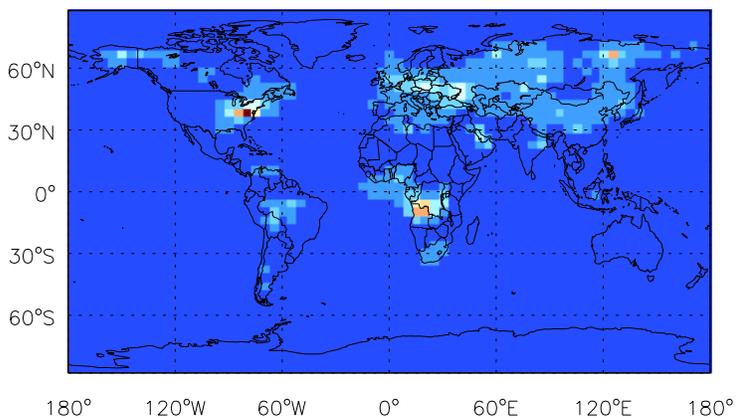
0.0146 3.6616 7.3086 10.9557 ppbv

Tracer Map @ 500 hPa - CH2O



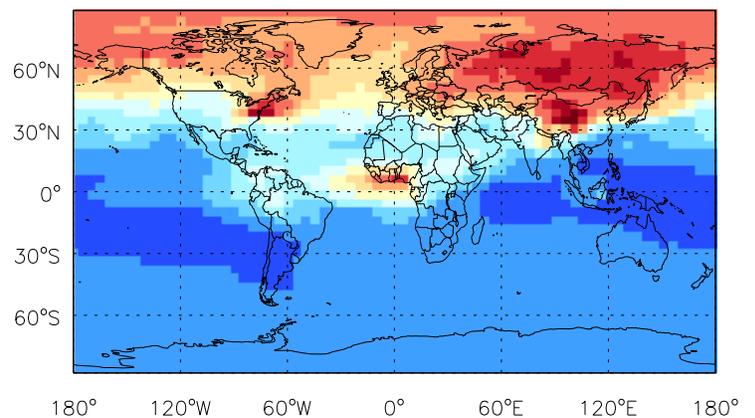
0.0510 0.1941 0.3372 0.4803 ppbv

Tracer Map @ Surface - C2H6



0.3576 6.1218 11.8859 17.6501 ppbC

Tracer Map @ 500 hPa - C2H6

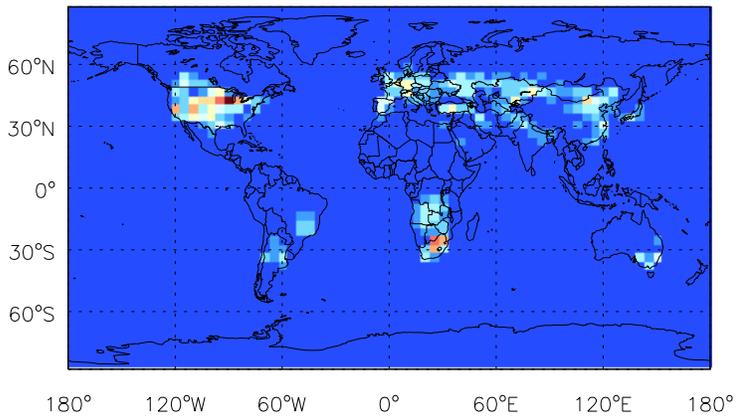


0.3856 0.8225 1.2593 1.6962 ppbC

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

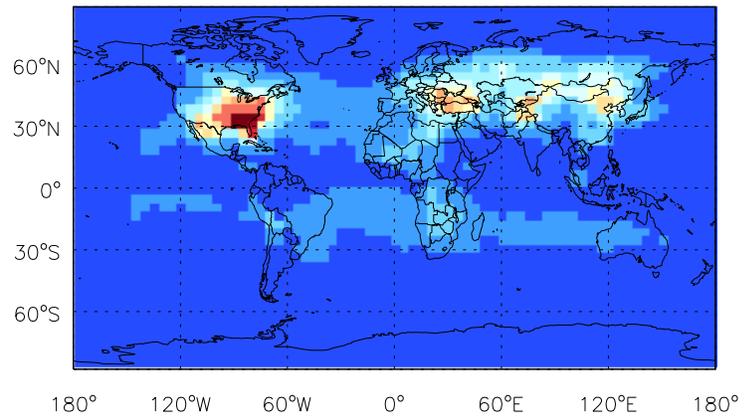
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - N2O5



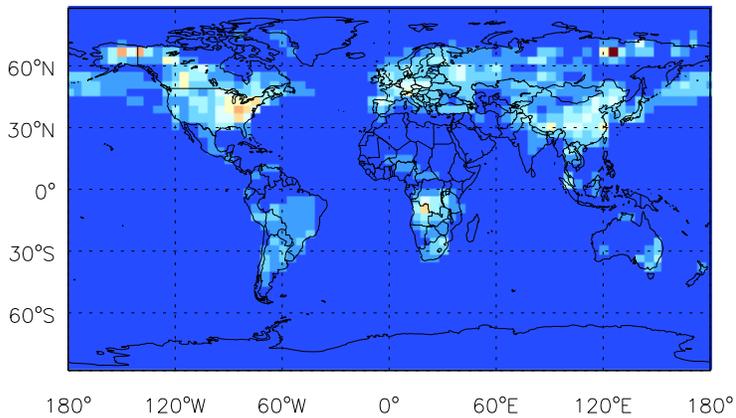
0.0000 0.0336 0.0672 0.1007 ppbv

Tracer Map @ 500 hPa - N2O5



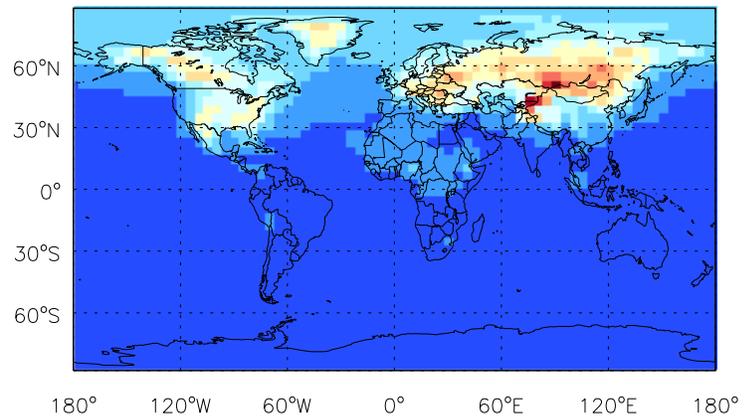
0.0000 0.0044 0.0089 0.0133 ppbv

Tracer Map @ Surface - HNO4



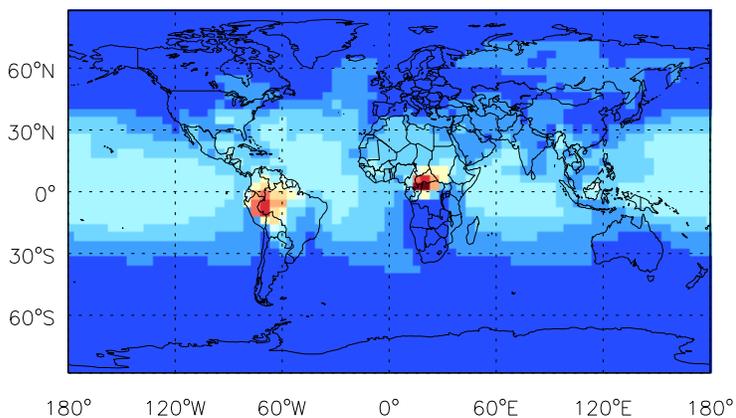
0.0000 0.0041 0.0082 0.0123 ppbv

Tracer Map @ 500 hPa - HNO4



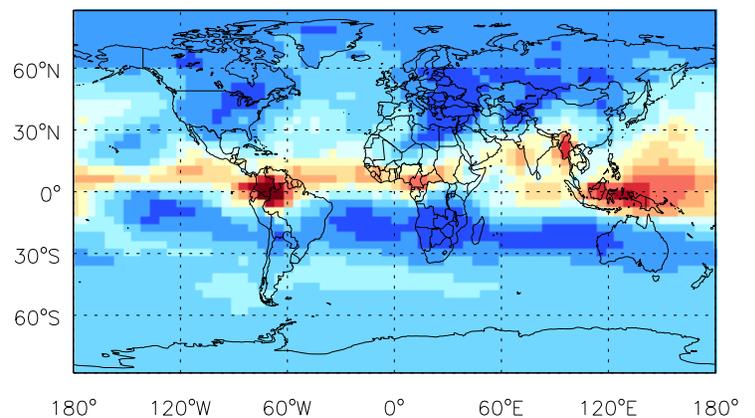
0.0001 0.0127 0.0253 0.0379 ppbv

Tracer Map @ Surface - MP



0.0918 1.5549 3.0180 4.4810 ppbv

Tracer Map @ 500 hPa - MP

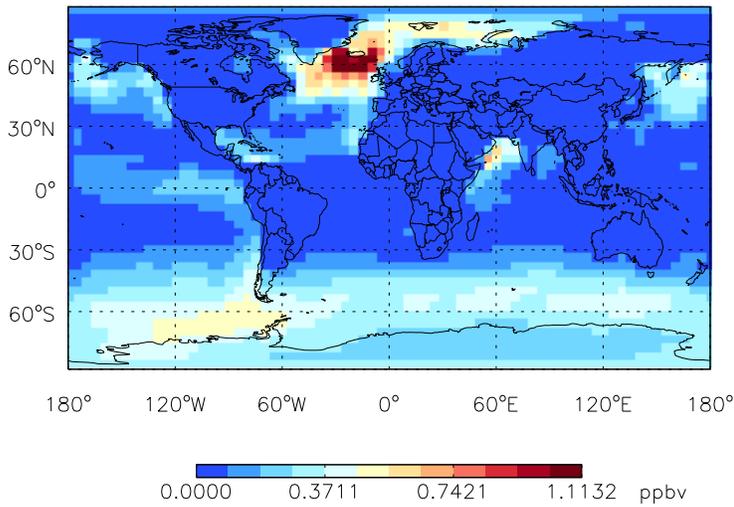


0.0992 0.4164 0.7336 1.0508 ppbv

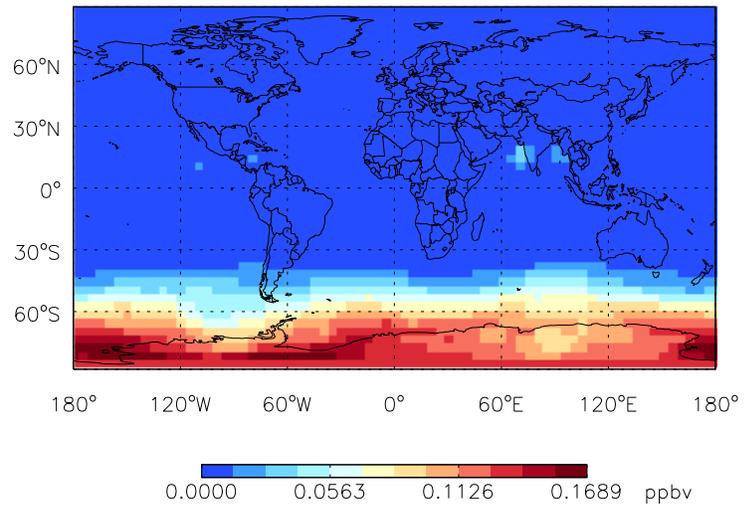
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

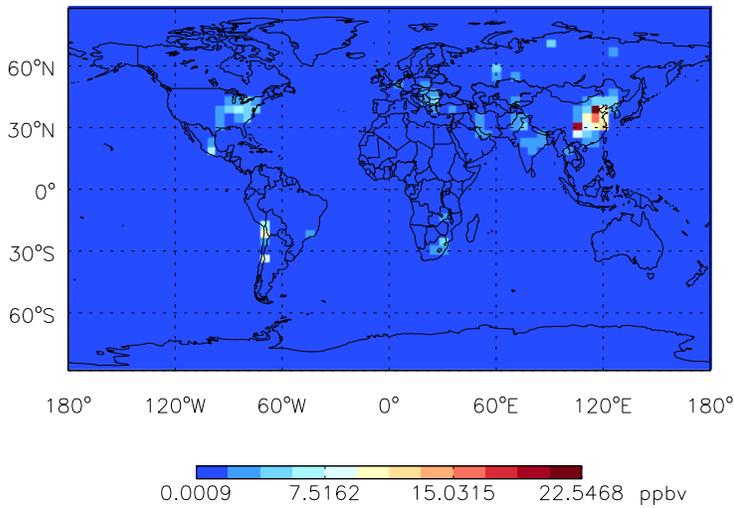
Tracer Map @ Surface - DMS



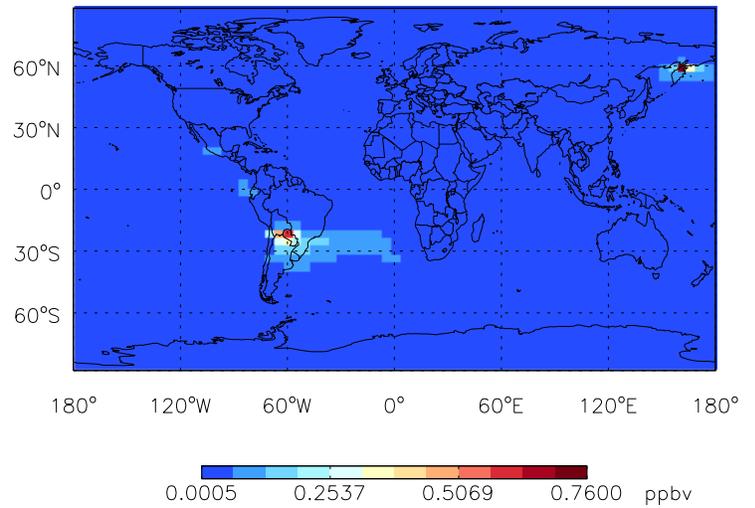
Tracer Map @ 500 hPa - DMS



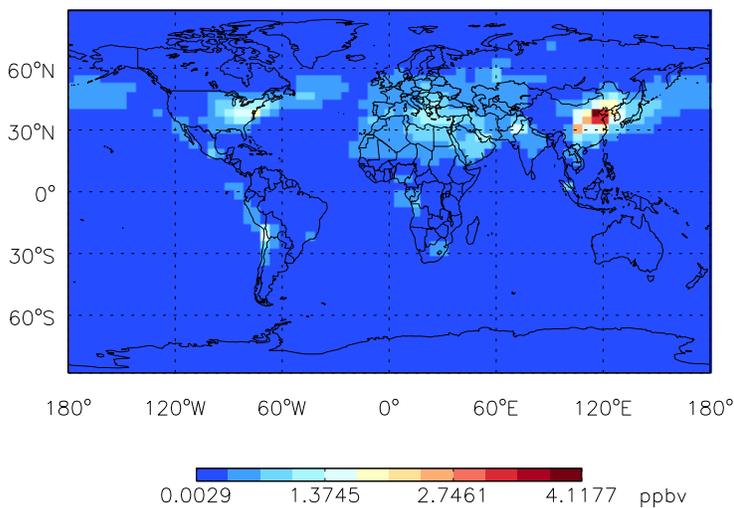
Tracer Map @ Surface - SO2



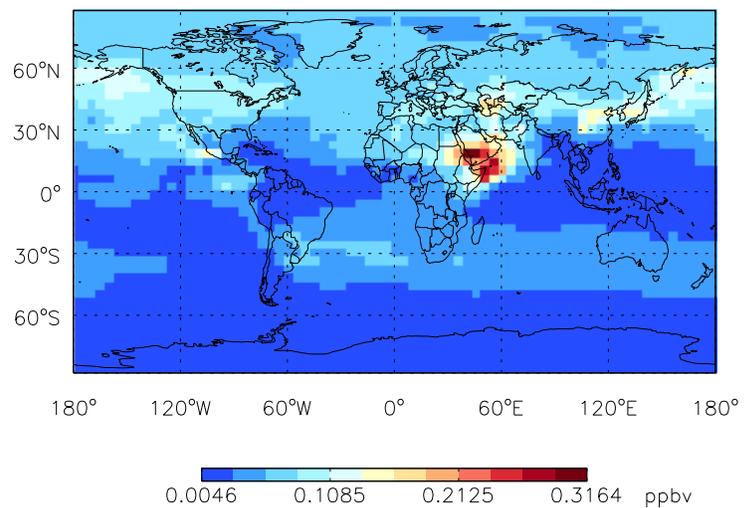
Tracer Map @ 500 hPa - SO2



Tracer Map @ Surface - SO4



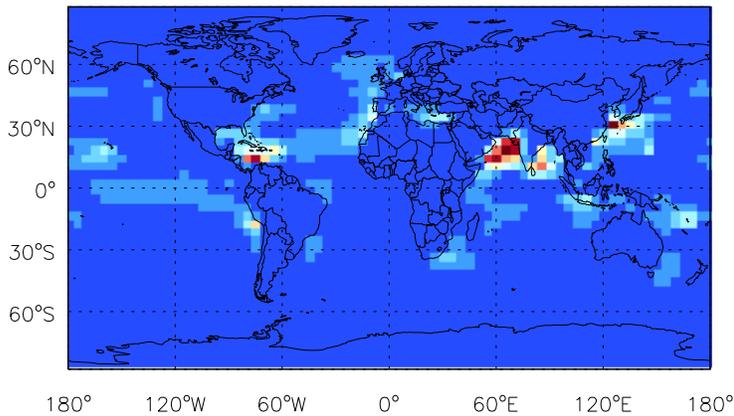
Tracer Map @ 500 hPa - SO4



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

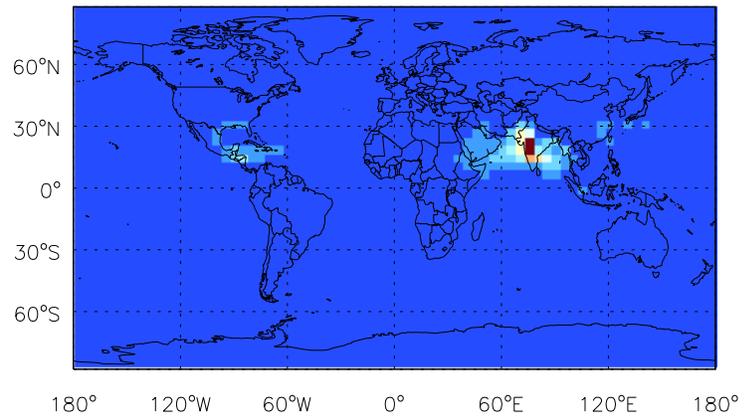
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - SO4s



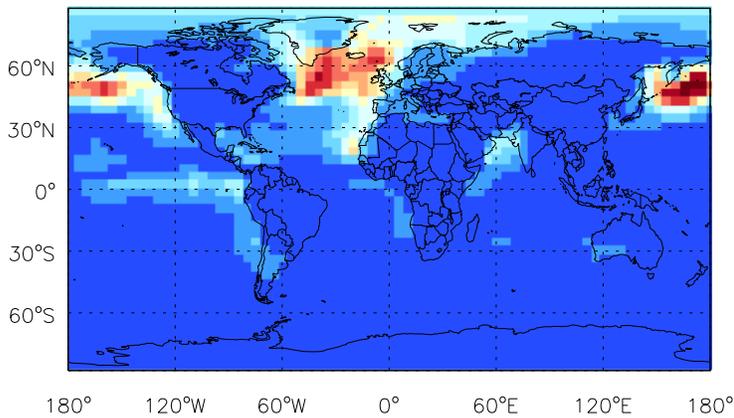
0.0000 0.0054 0.0109 0.0163 ppbv

Tracer Map @ 500 hPa - SO4s



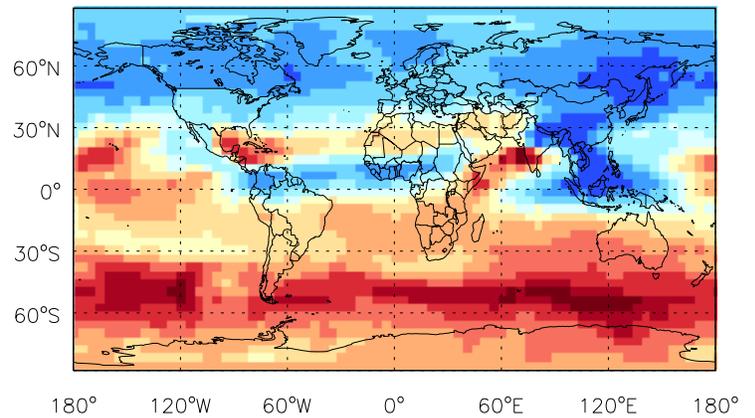
0.0000 0.0000 0.0000 0.0000 ppbv

Tracer Map @ Surface - MSA



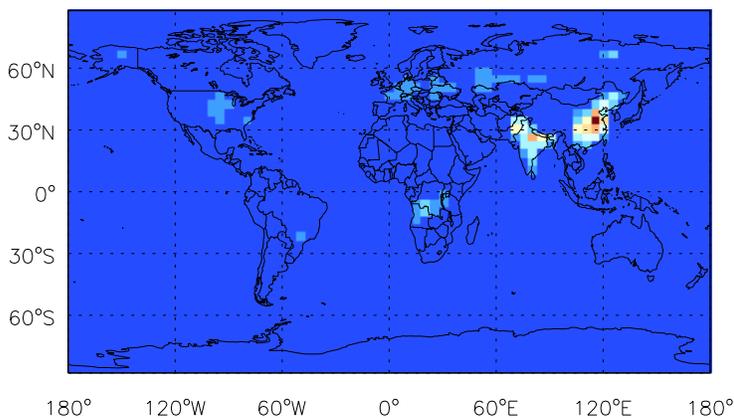
0.0001 0.0270 0.0540 0.0809 ppbv

Tracer Map @ 500 hPa - MSA



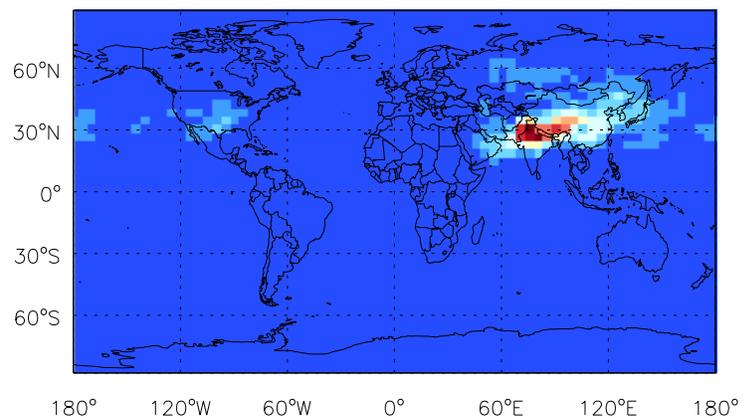
0.0004 0.0026 0.0048 0.0070 ppbv

Tracer Map @ Surface - NH3



0.0000 13.9760 27.9521 41.9281 ppbv

Tracer Map @ 500 hPa - NH3

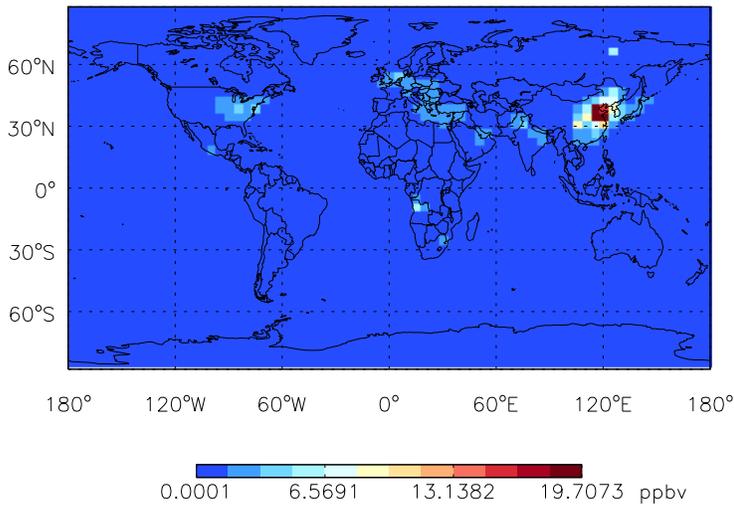


0.0000 0.0545 0.1089 0.1634 ppbv

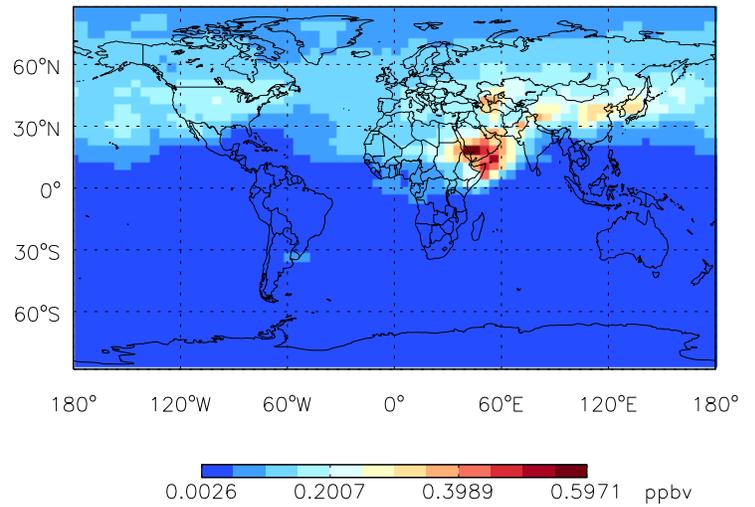
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

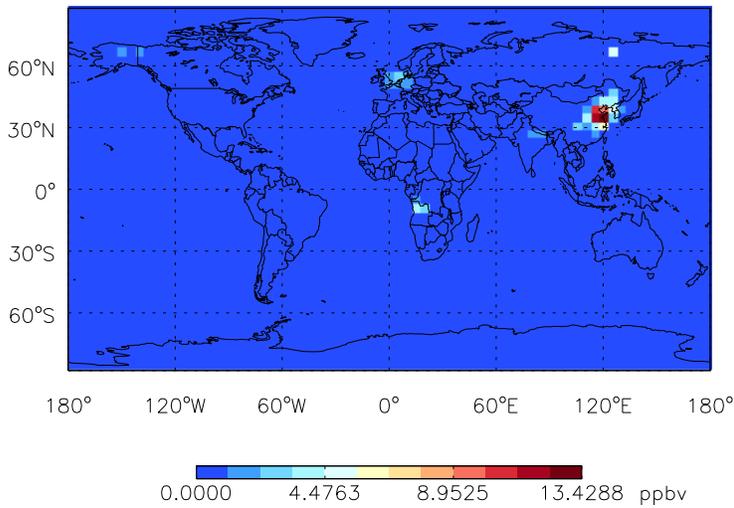
Tracer Map @ Surface - NH4



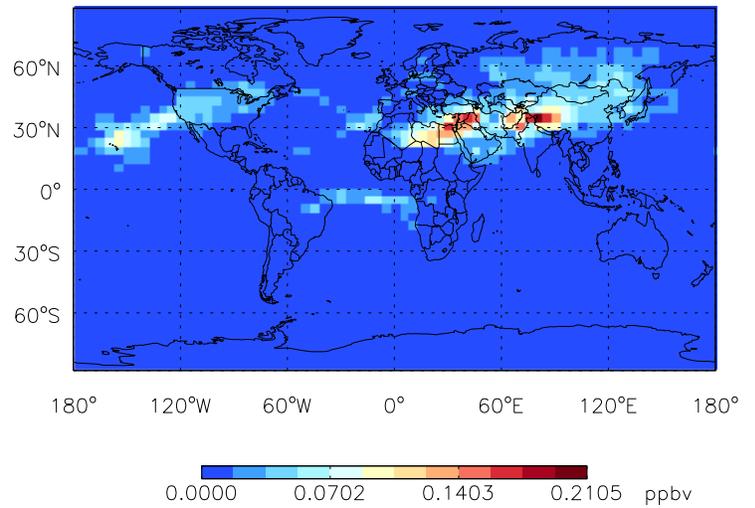
Tracer Map @ 500 hPa - NH4



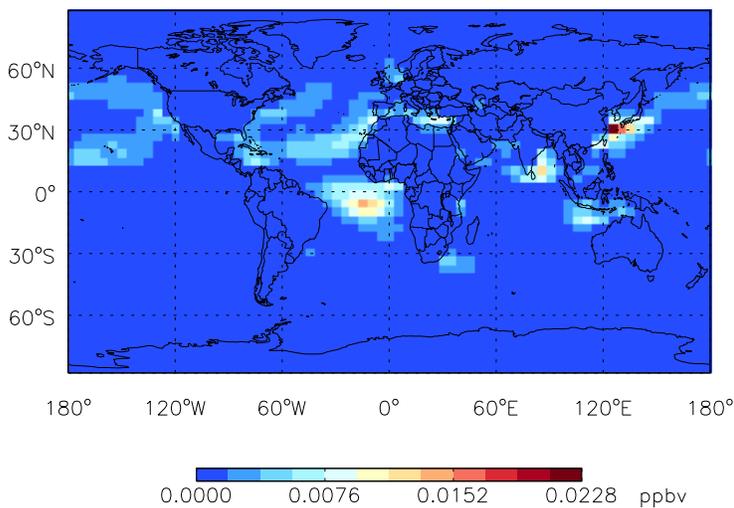
Tracer Map @ Surface - NIT



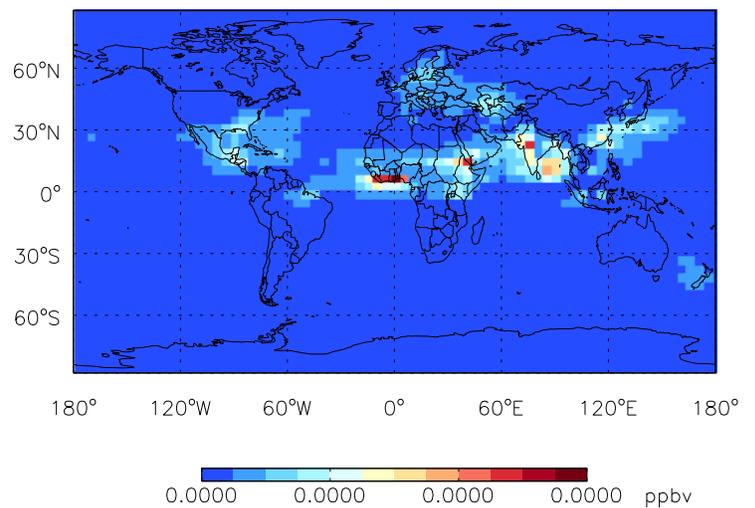
Tracer Map @ 500 hPa - NIT



Tracer Map @ Surface - NITs



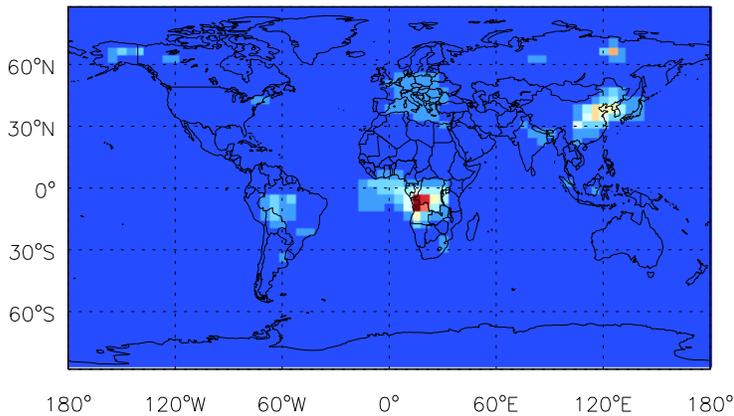
Tracer Map @ 500 hPa - NITs



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

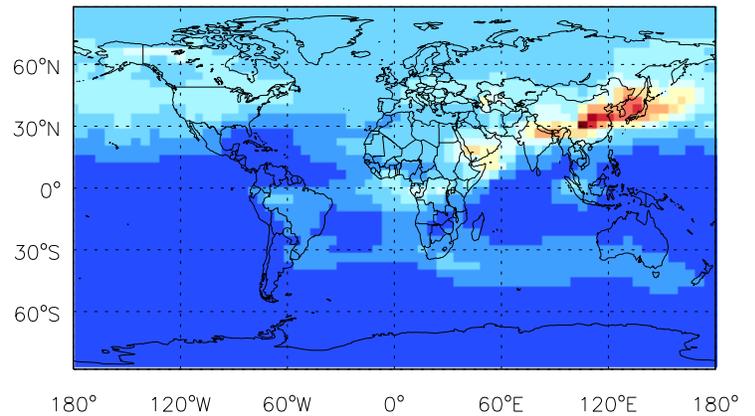
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - BCPI



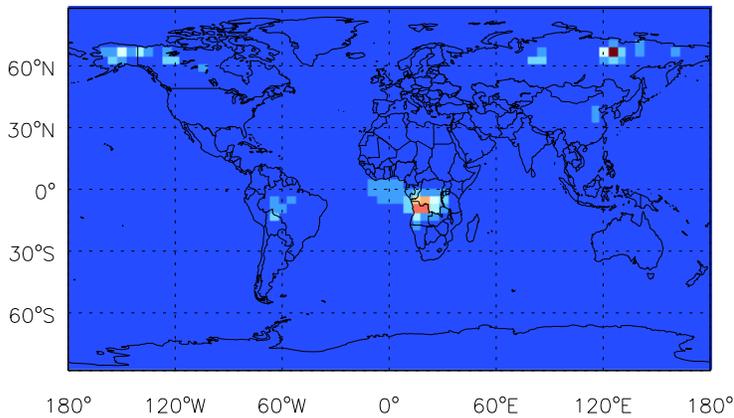
0.0004 1.8621 3.7239 5.5856 ppbv

Tracer Map @ 500 hPa - BCPI



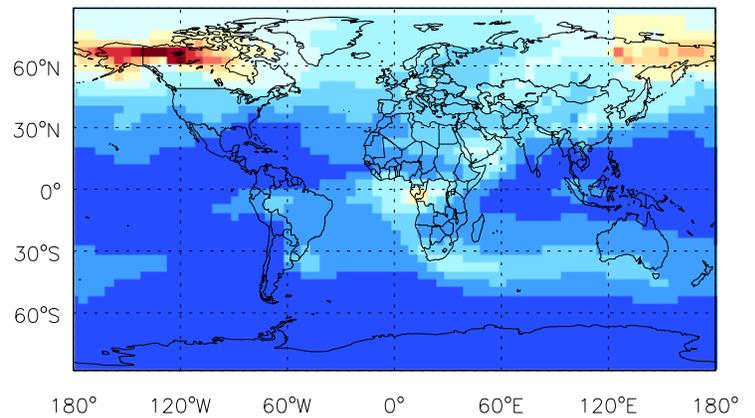
0.0010 0.0485 0.0960 0.1435 ppbv

Tracer Map @ Surface - OCPI



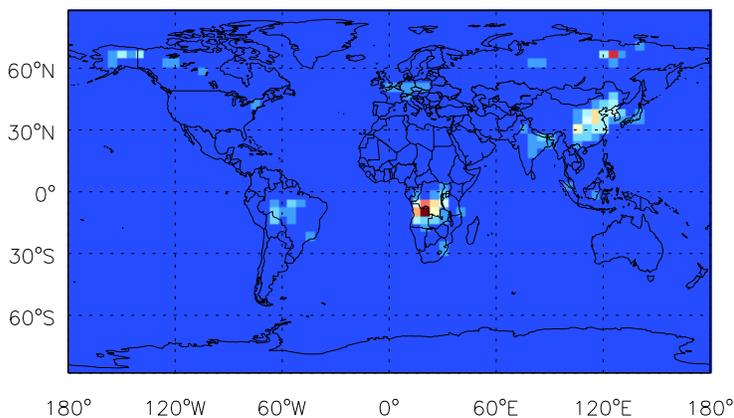
0.0016 29.2537 58.5058 87.7580 ppbv

Tracer Map @ 500 hPa - OCPI



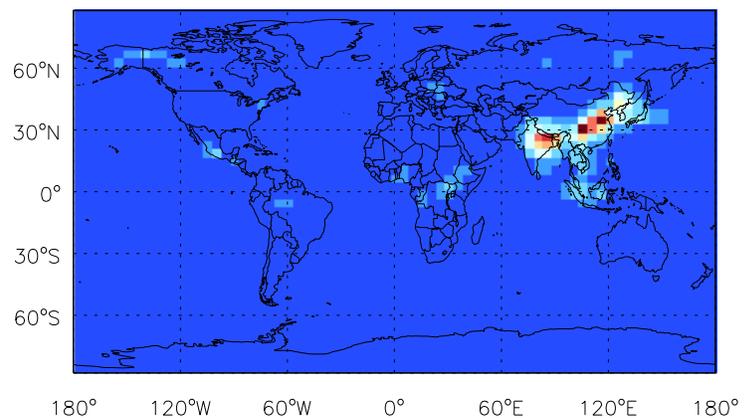
0.0037 0.2283 0.4529 0.6775 ppbv

Tracer Map @ Surface - BCPO



0.0000 2.2215 4.4429 6.6644 ppbv

Tracer Map @ 500 hPa - BCPO

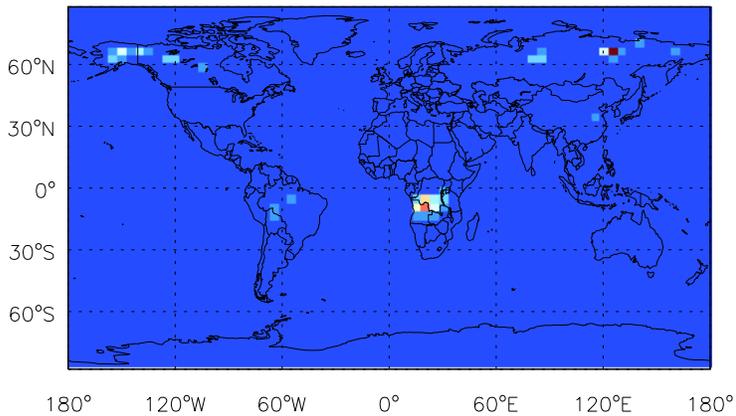


0.0000 0.0385 0.0769 0.1154 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

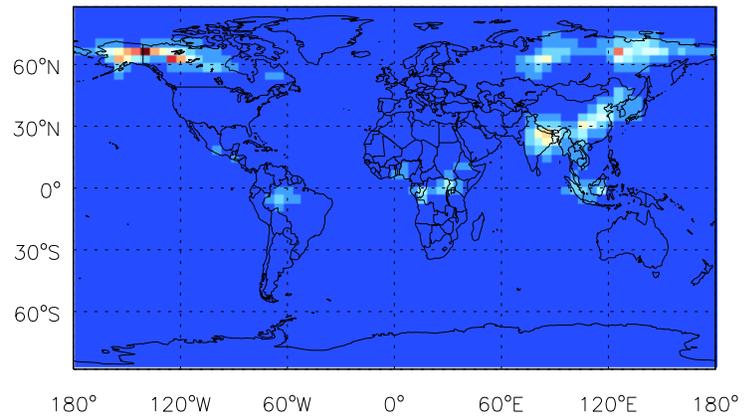
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - OCPO



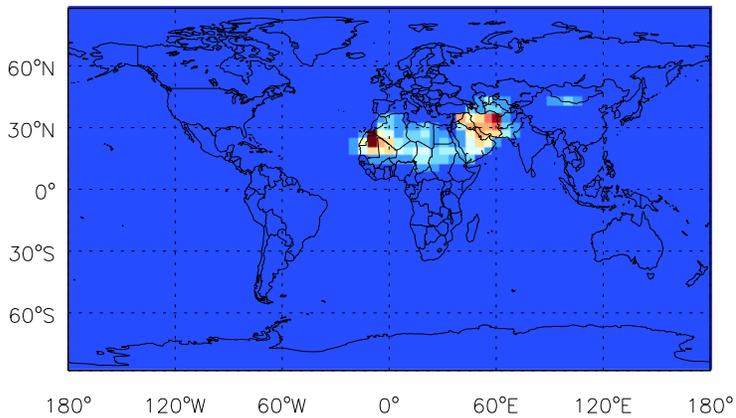
0.0000 17.8547 35.7094 53.5641 ppbv

Tracer Map @ 500 hPa - OCPO



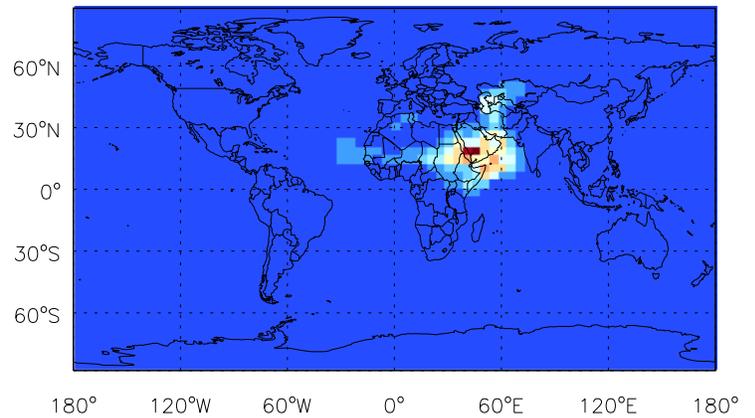
0.0000 0.1087 0.2174 0.3261 ppbv

Tracer Map @ Surface - DST1



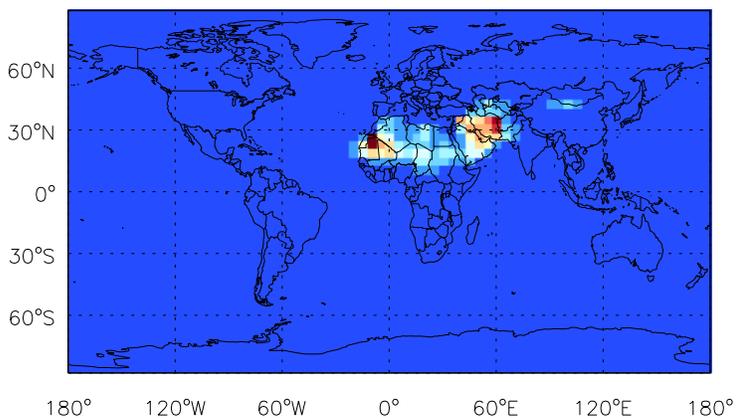
0.0001 25.8568 51.7134 77.5701 ppbv

Tracer Map @ 500 hPa - DST1



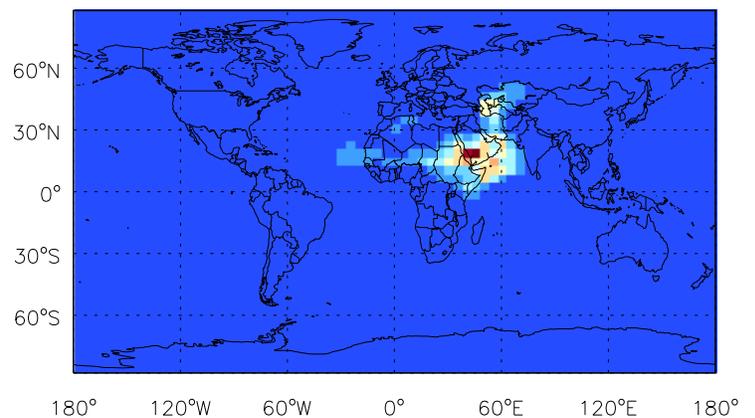
0.0003 3.3514 6.7026 10.0537 ppbv

Tracer Map @ Surface - DST2



0.0002 52.6361 105.2720 157.9080 ppbv

Tracer Map @ 500 hPa - DST2

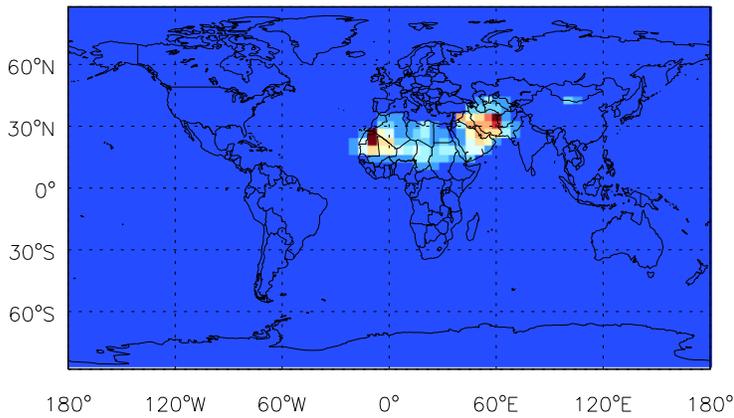


0.0004 5.6374 11.2743 16.9113 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

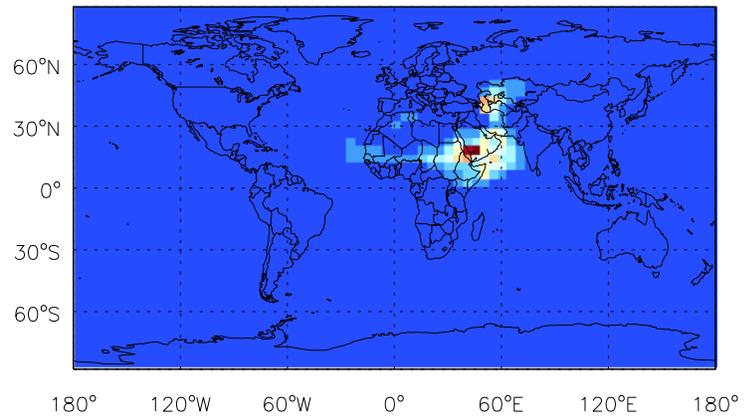
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - DST3



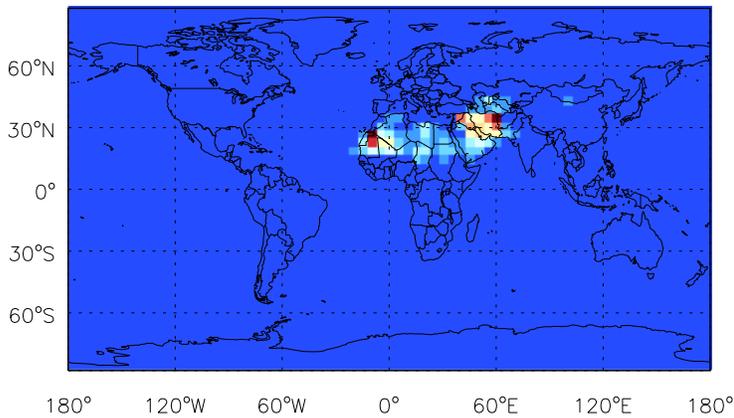
0.0001 60.9358 121.8715 182.8072 ppbv

Tracer Map @ 500 hPa - DST3



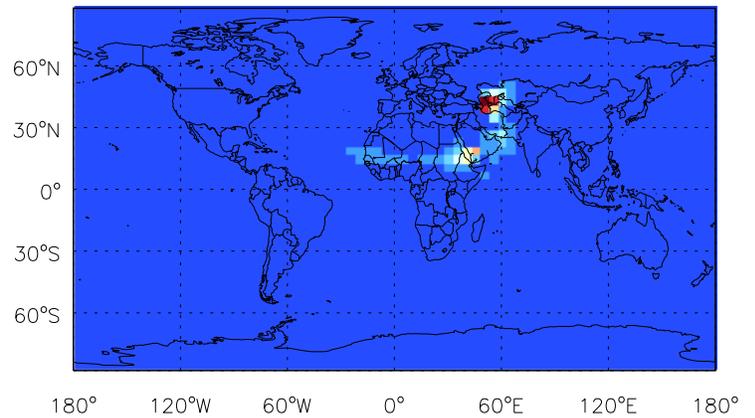
0.0002 3.9700 7.9399 11.9097 ppbv

Tracer Map @ Surface - DST4



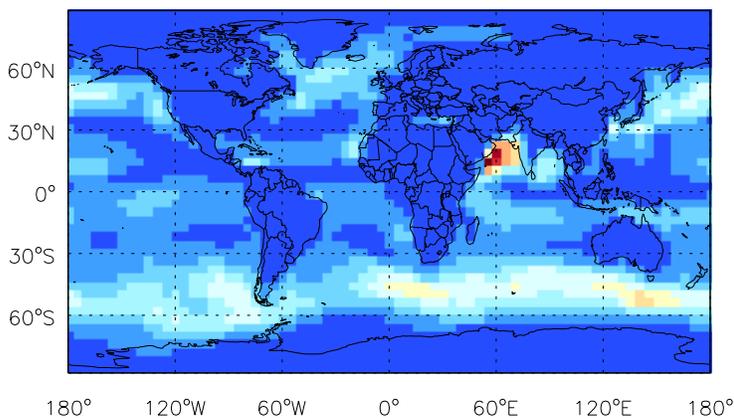
0.0000 43.2294 86.4588 129.6882 ppbv

Tracer Map @ 500 hPa - DST4



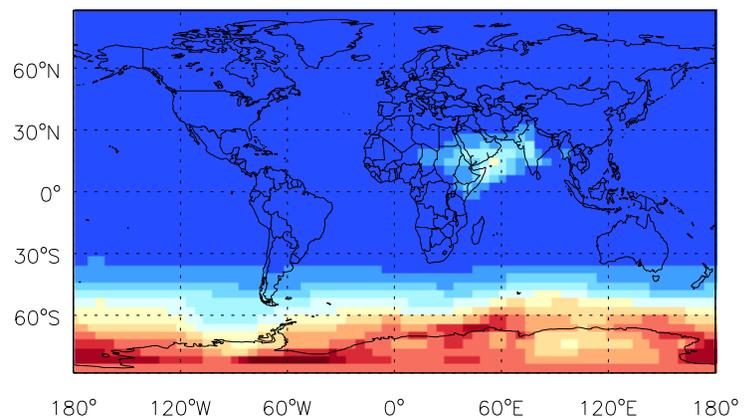
0.0000 0.5251 1.0503 1.5754 ppbv

Tracer Map @ Surface - SALA



0.0002 0.8178 1.6355 2.4532 ppbv

Tracer Map @ 500 hPa - SALA

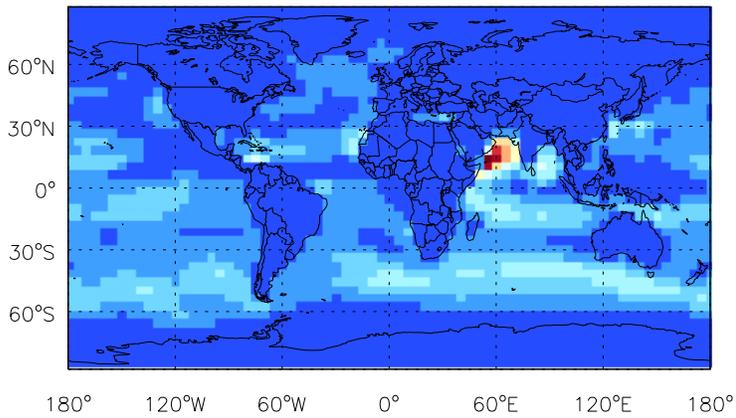


0.0001 0.0118 0.0234 0.0350 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

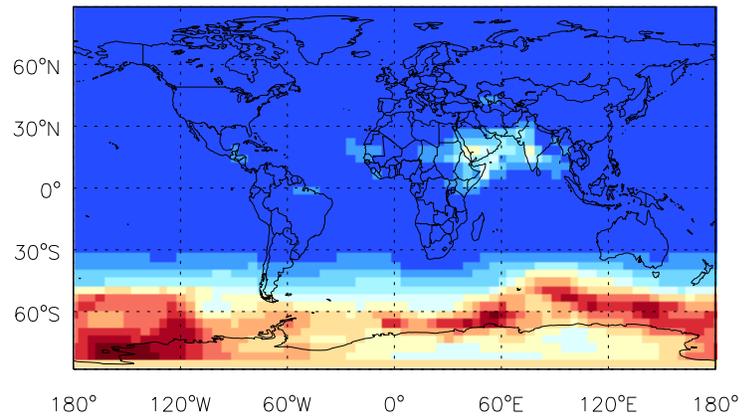
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - SALC



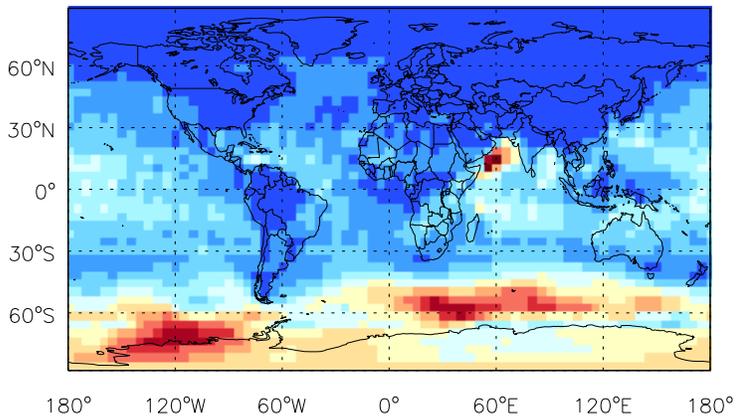
0.0003 21.8082 43.6160 65.4239 ppbv

Tracer Map @ 500 hPa - SALC



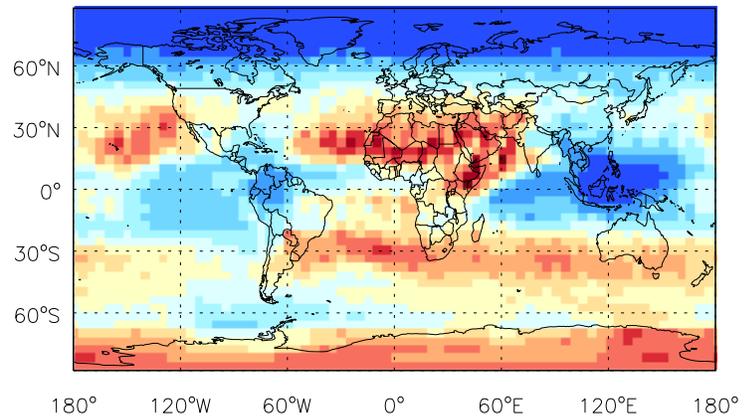
0.0011 0.0766 0.1520 0.2275 ppbv

Tracer Map @ Surface - Br2



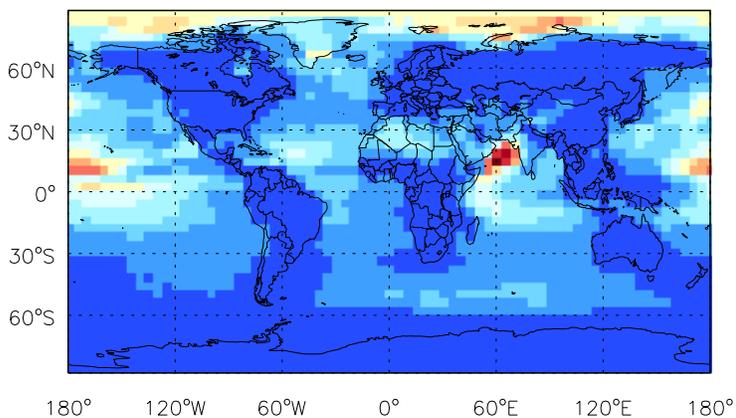
0.0000 0.0004 0.0008 0.0012 ppbv

Tracer Map @ 500 hPa - Br2



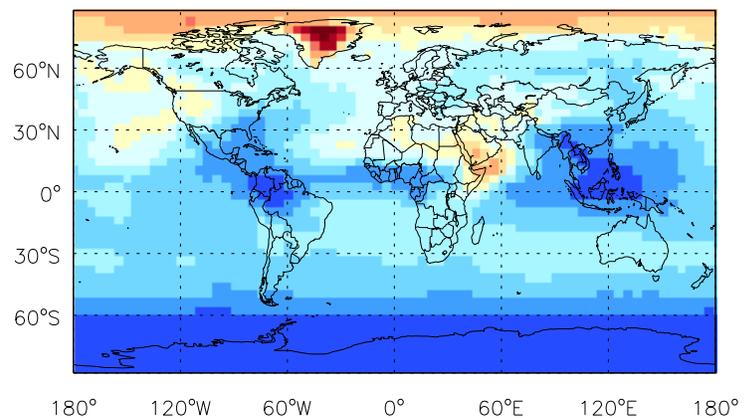
0.0000 0.0002 0.0003 0.0005 ppbv

Tracer Map @ Surface - Br



0.0000 0.0000 0.0000 0.0000 ppbv

Tracer Map @ 500 hPa - Br

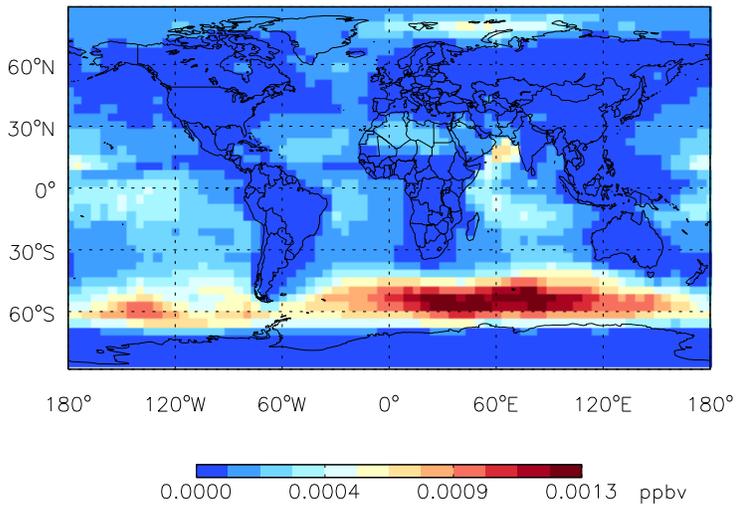


0.0000 0.0000 0.0000 0.0001 ppbv

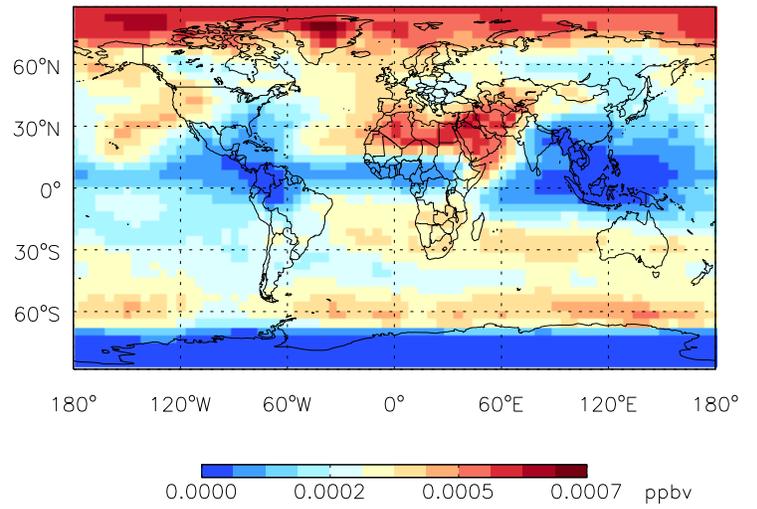
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

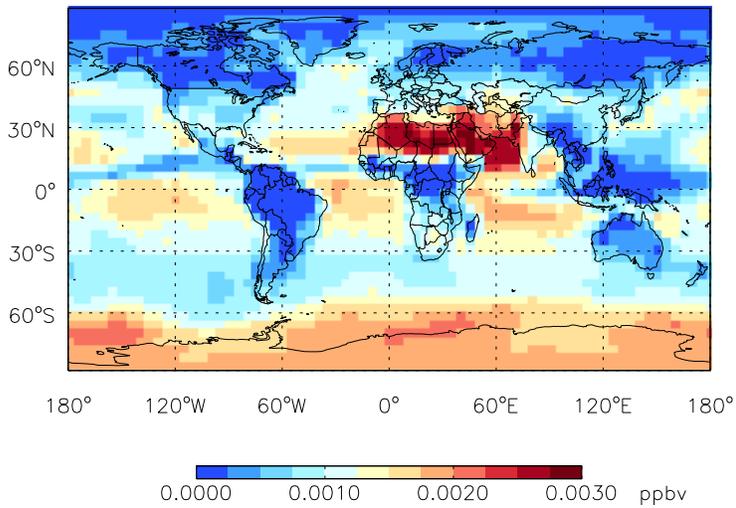
Tracer Map @ Surface - BrO



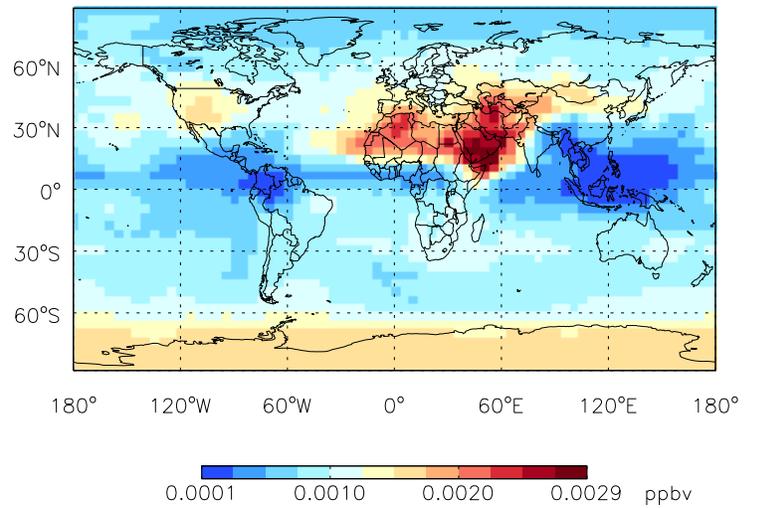
Tracer Map @ 500 hPa - BrO



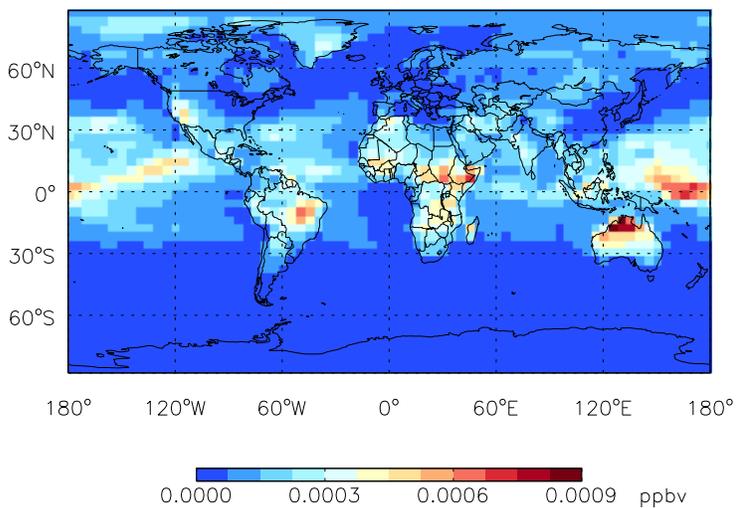
Tracer Map @ Surface - HOBr



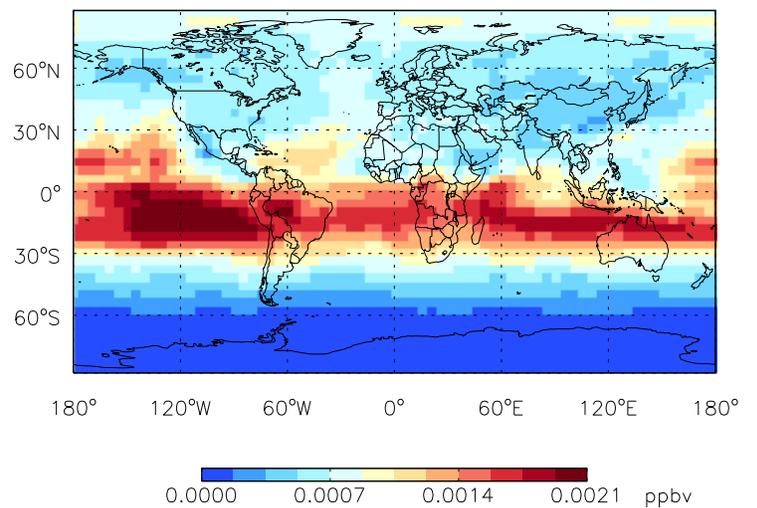
Tracer Map @ 500 hPa - HOBr



Tracer Map @ Surface - HBr



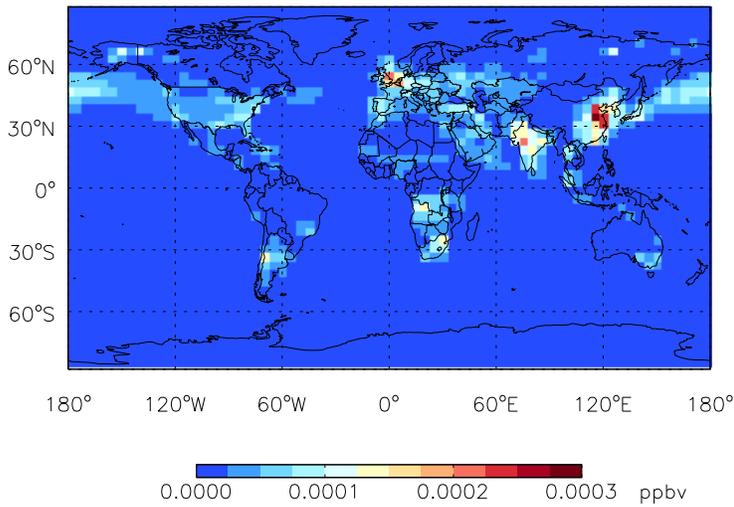
Tracer Map @ 500 hPa - HBr



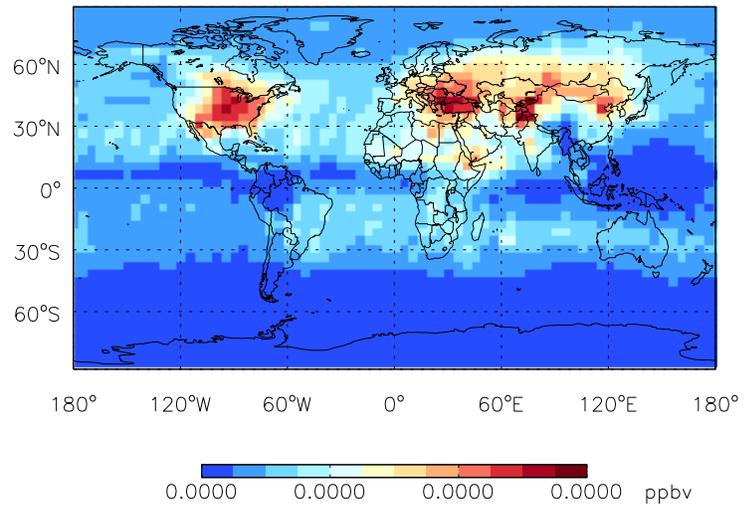
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

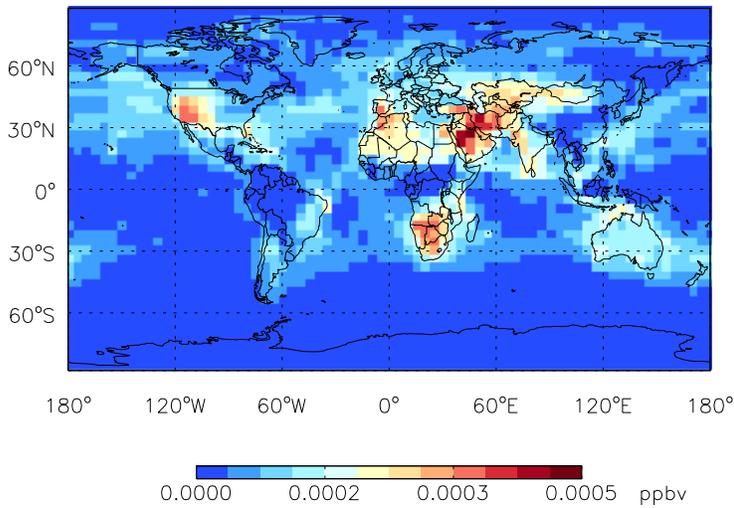
Tracer Map @ Surface - BrNO2



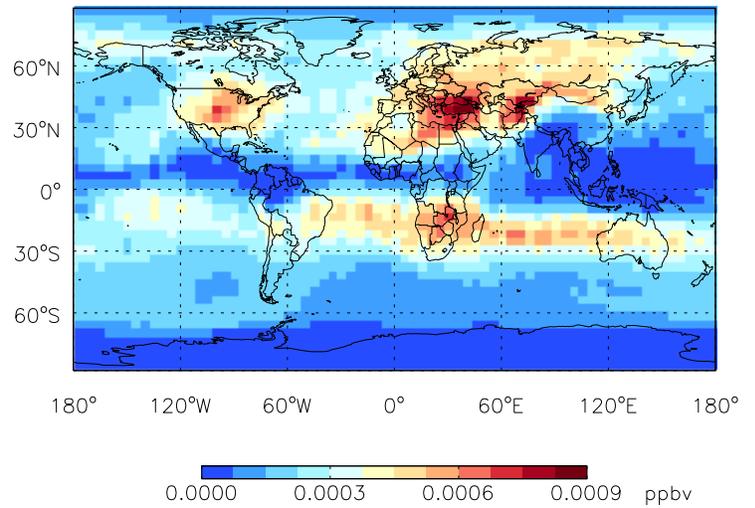
Tracer Map @ 500 hPa - BrNO2



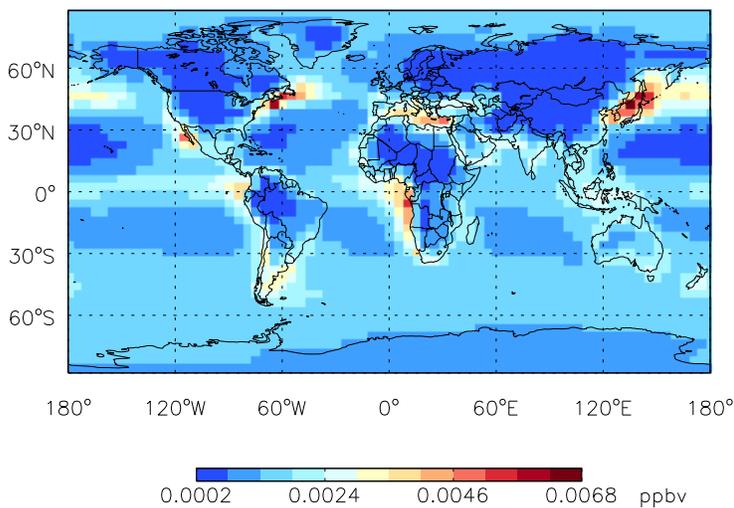
Tracer Map @ Surface - BrNO3



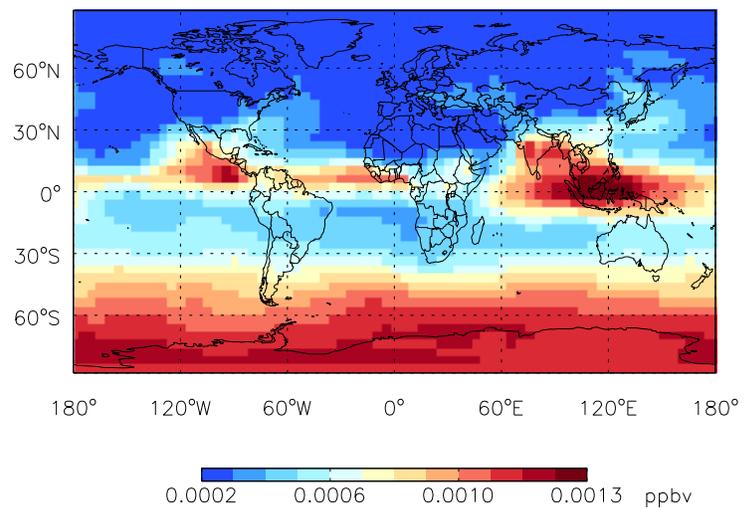
Tracer Map @ 500 hPa - BrNO3



Tracer Map @ Surface - CHBr3



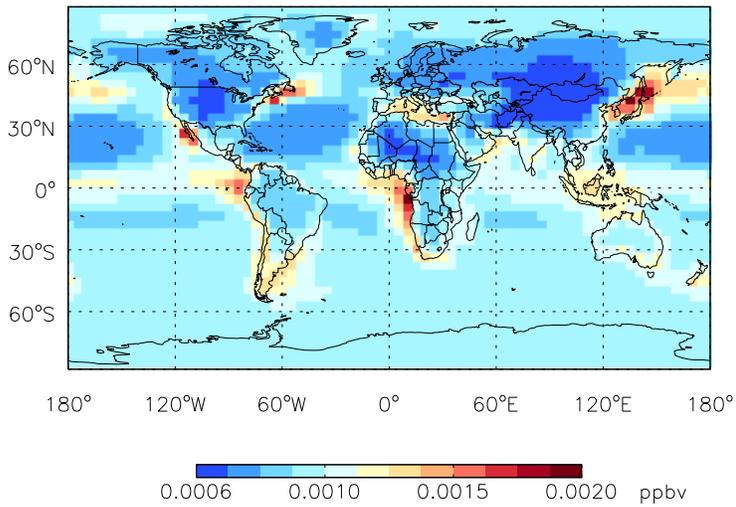
Tracer Map @ 500 hPa - CHBr3



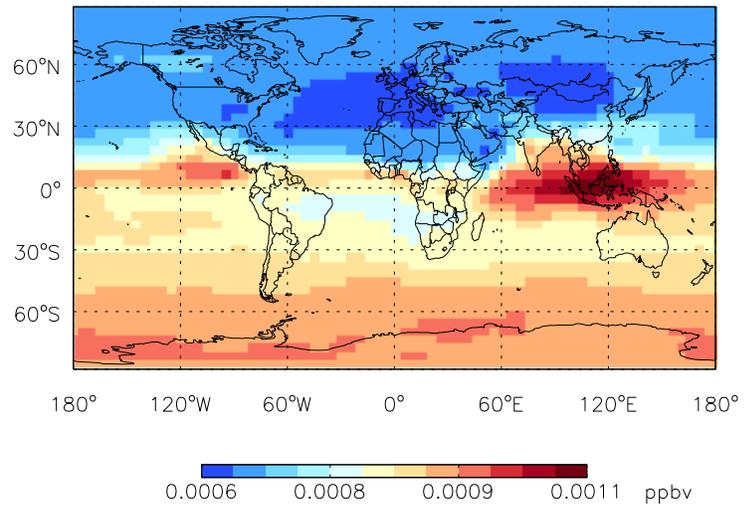
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

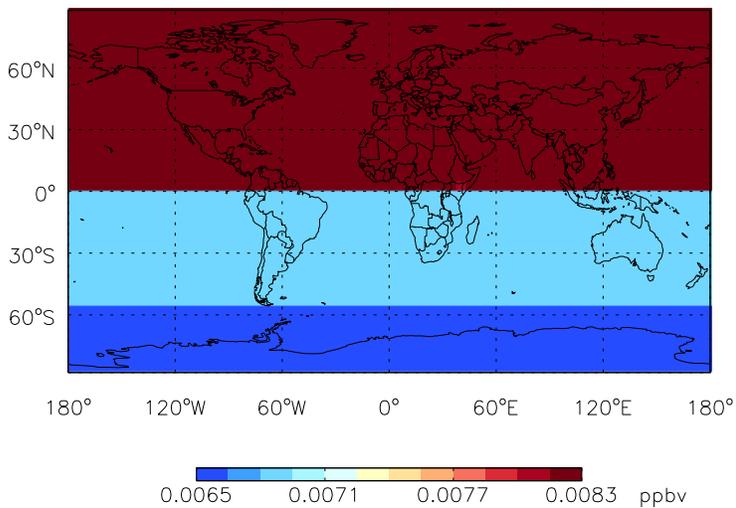
Tracer Map @ Surface - CH₂Br₂



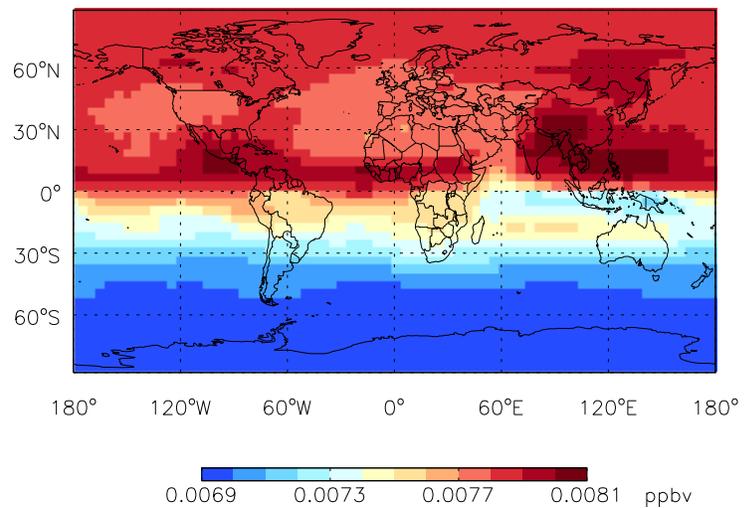
Tracer Map @ 500 hPa - CH₂Br₂



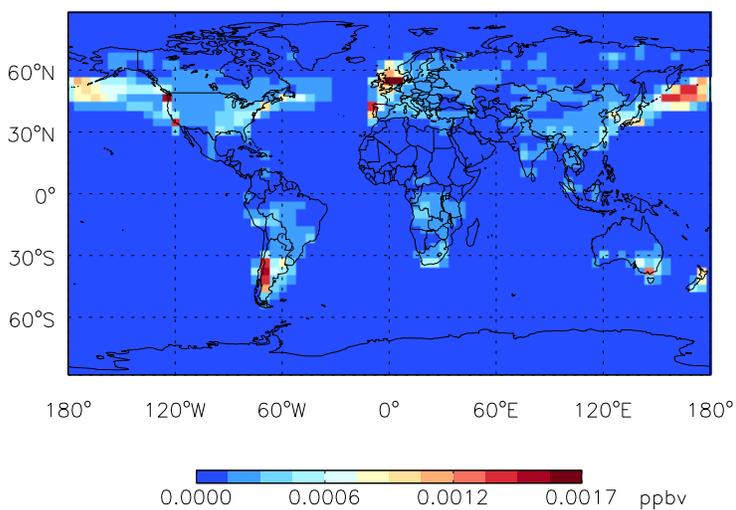
Tracer Map @ Surface - CH₃Br



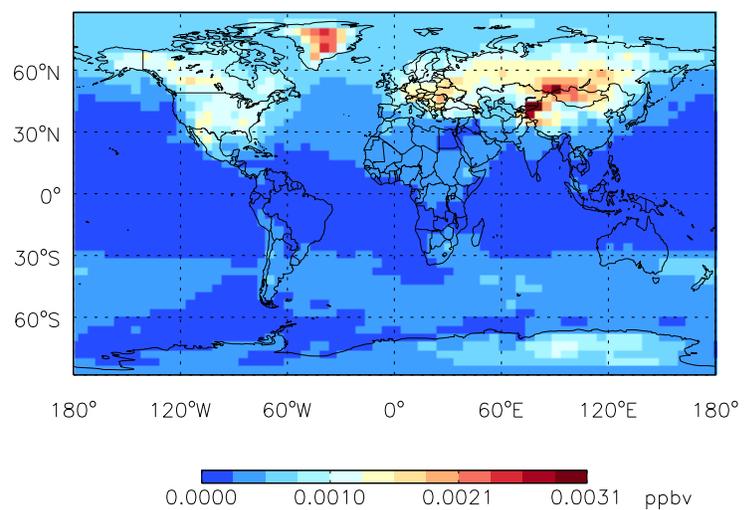
Tracer Map @ 500 hPa - CH₃Br



Tracer Map @ Surface - MPN



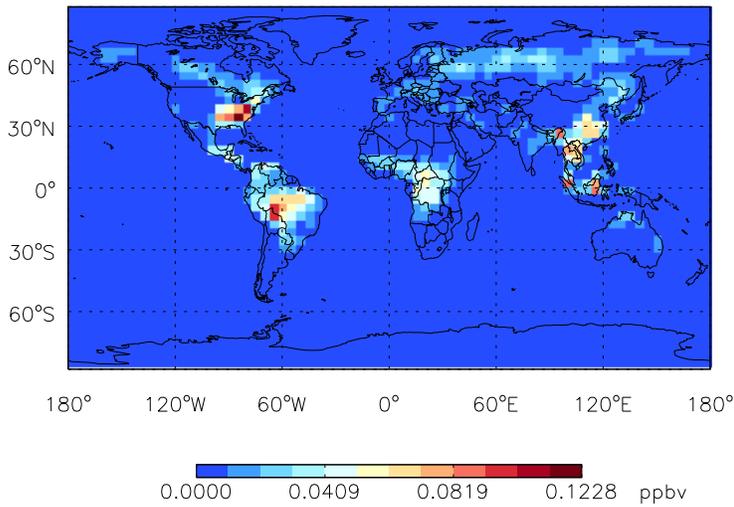
Tracer Map @ 500 hPa - MPN



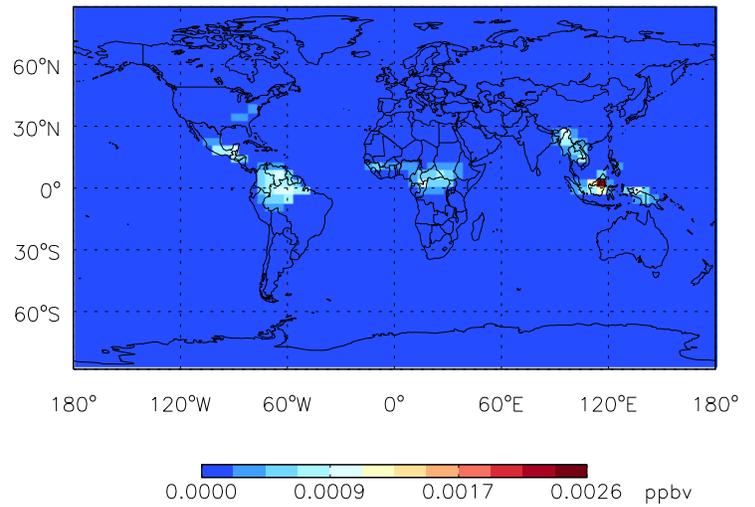
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

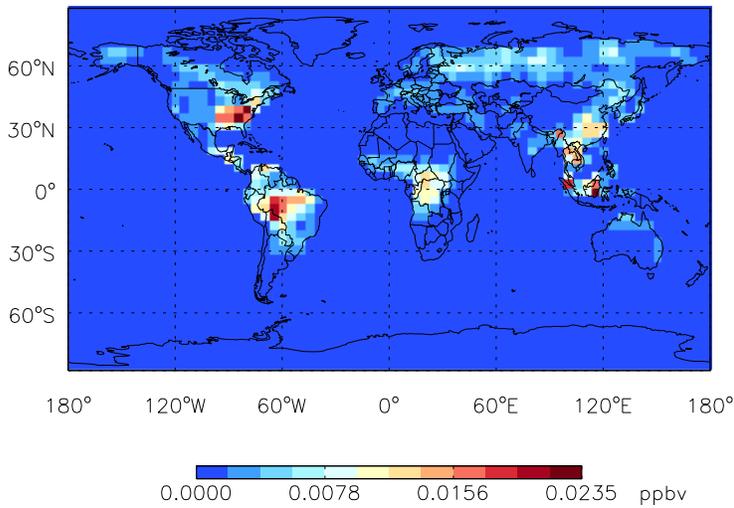
Tracer Map @ Surface – ISOPN



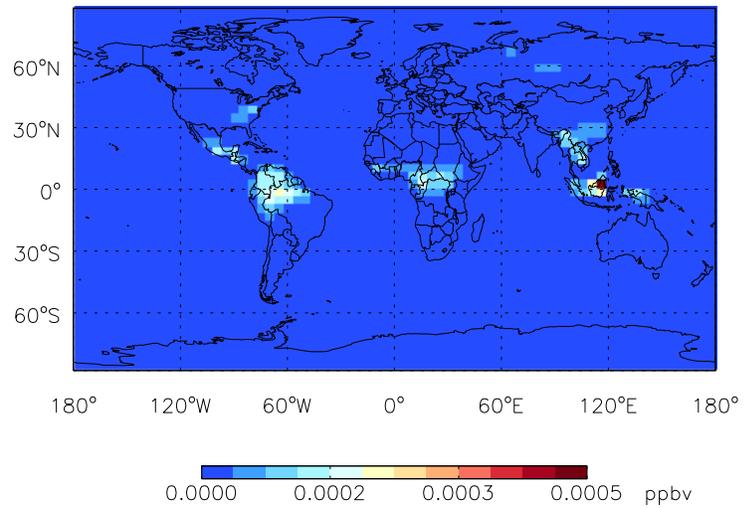
Tracer Map @ 500 hPa – ISOPN



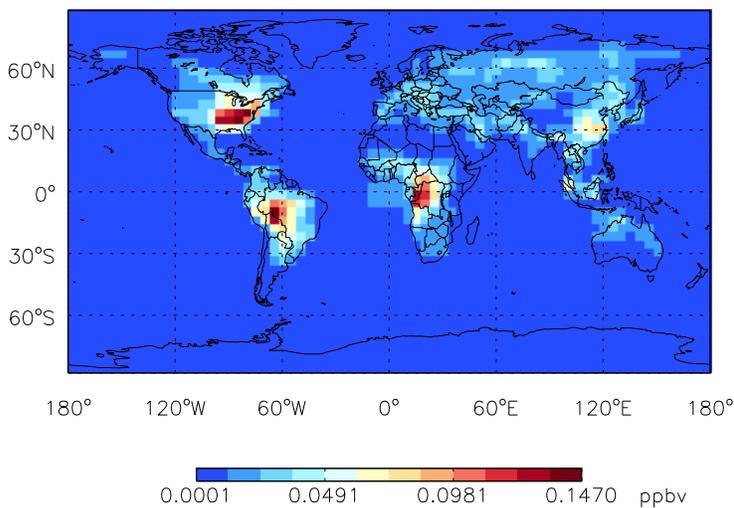
Tracer Map @ Surface – MOBA



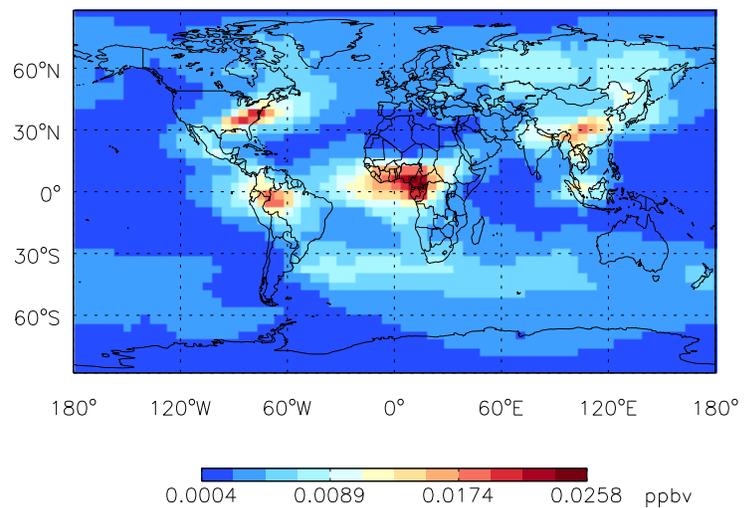
Tracer Map @ 500 hPa – MOBA



Tracer Map @ Surface – PROPNN



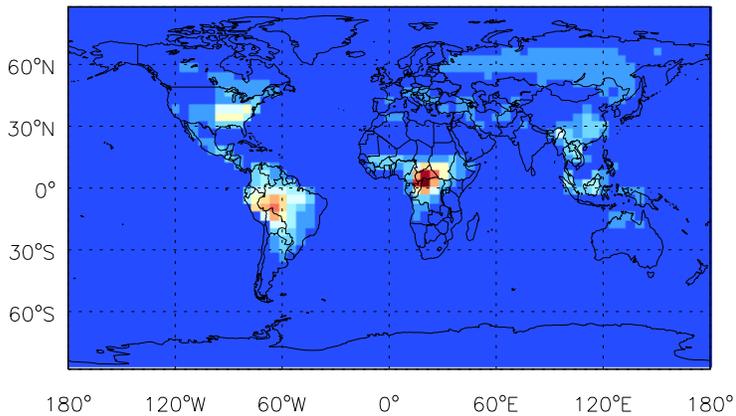
Tracer Map @ 500 hPa – PROPNN



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

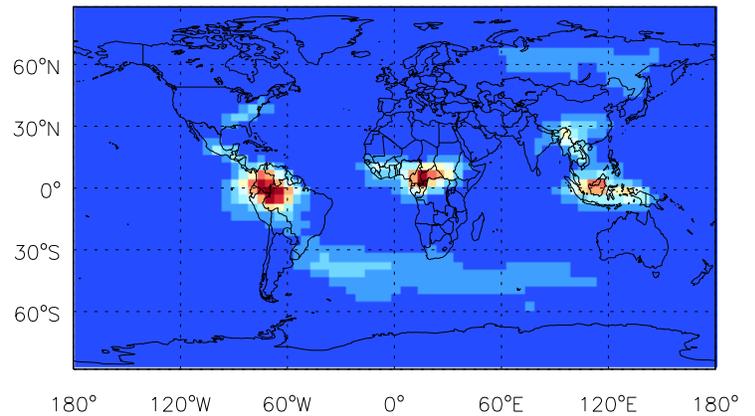
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - HAC



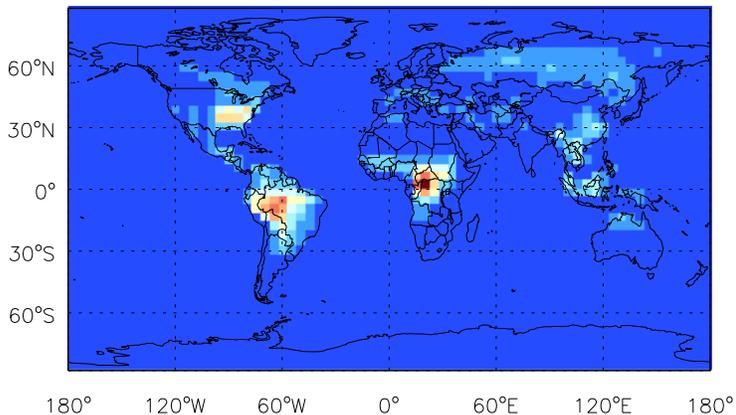
0.0004 1.3820 2.7636 4.1452 ppbv

Tracer Map @ 500 hPa - HAC



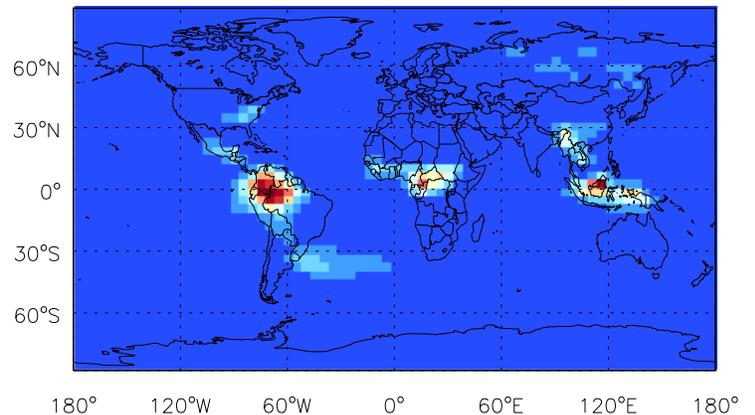
0.0005 0.2343 0.4681 0.7019 ppbv

Tracer Map @ Surface - GLYC



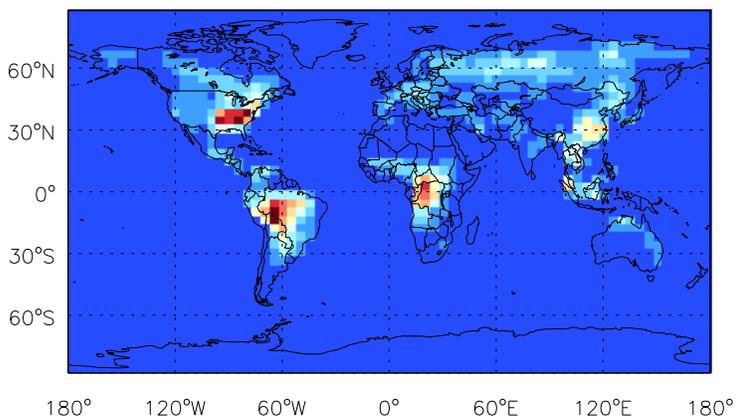
0.0000 0.7557 1.5113 2.2670 ppbv

Tracer Map @ 500 hPa - GLYC



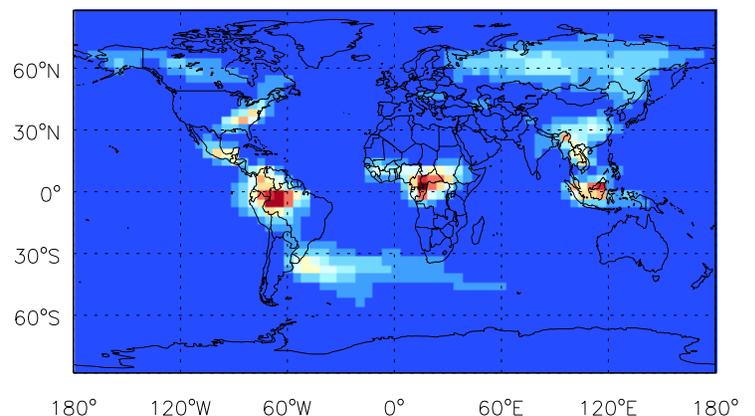
0.0000 0.0477 0.0955 0.1432 ppbv

Tracer Map @ Surface - MMN



0.0000 0.0673 0.1346 0.2019 ppbv

Tracer Map @ 500 hPa - MMN

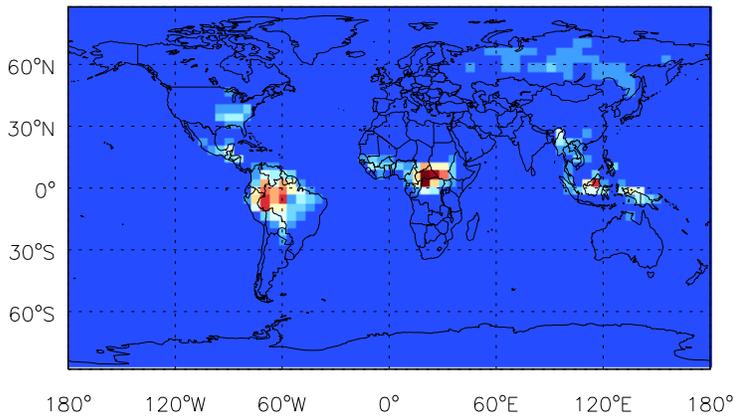


0.0000 0.0024 0.0047 0.0071 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

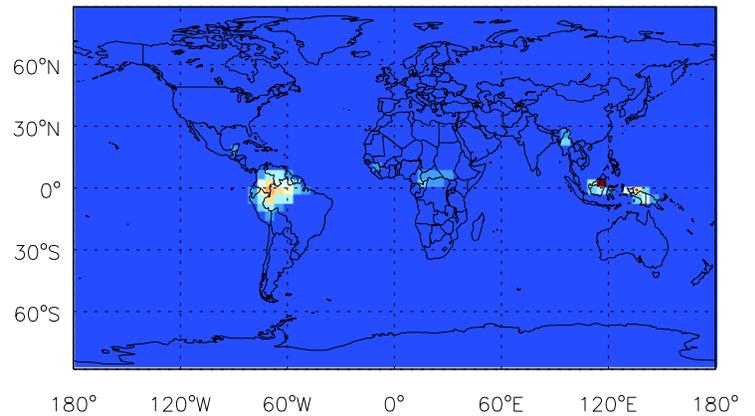
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - RIP



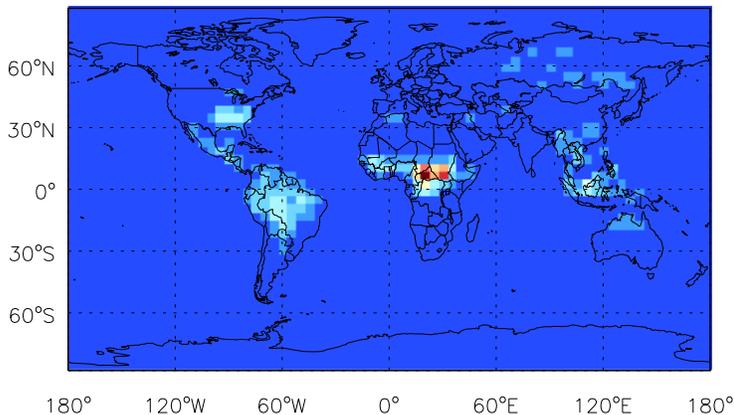
0.0000 0.2540 0.5081 0.7621 ppbv

Tracer Map @ 500 hPa - RIP



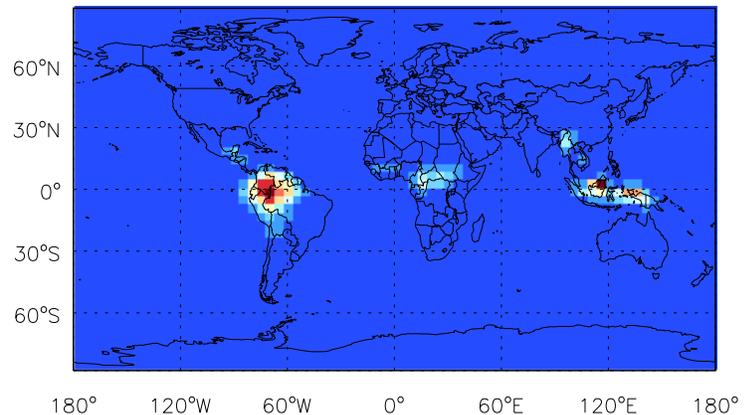
0.0000 0.0299 0.0598 0.0897 ppbv

Tracer Map @ Surface - IEPOX



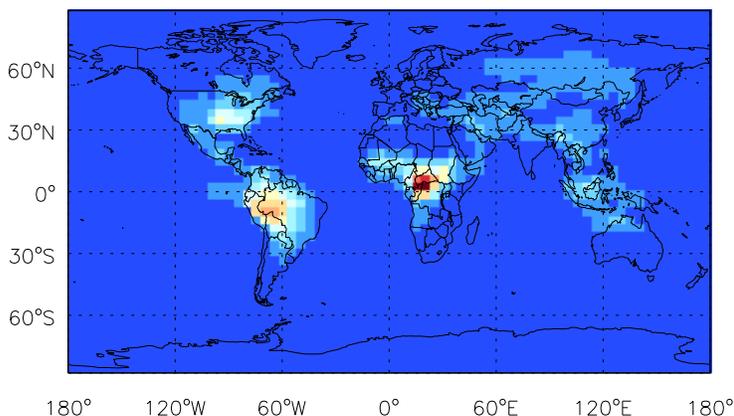
0.0000 0.3767 0.7534 1.1301 ppbv

Tracer Map @ 500 hPa - IEPOX



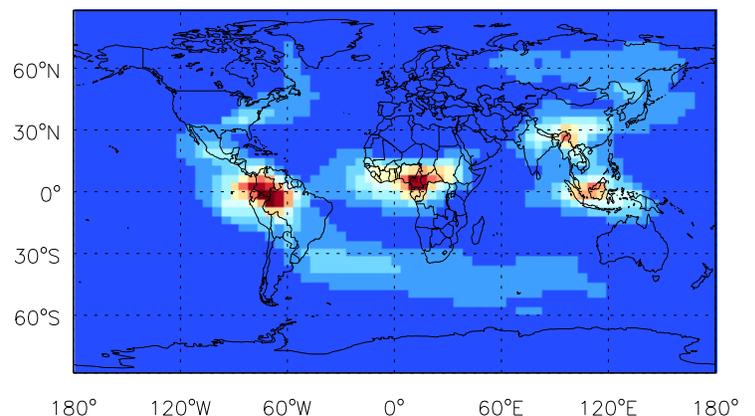
0.0000 0.0720 0.1441 0.2161 ppbv

Tracer Map @ Surface - MAP



0.0019 0.3094 0.6168 0.9243 ppbv

Tracer Map @ 500 hPa - MAP

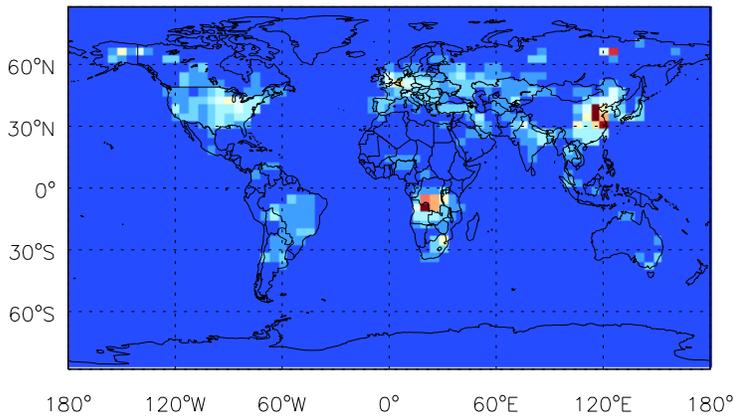


0.0075 0.0837 0.1600 0.2363 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

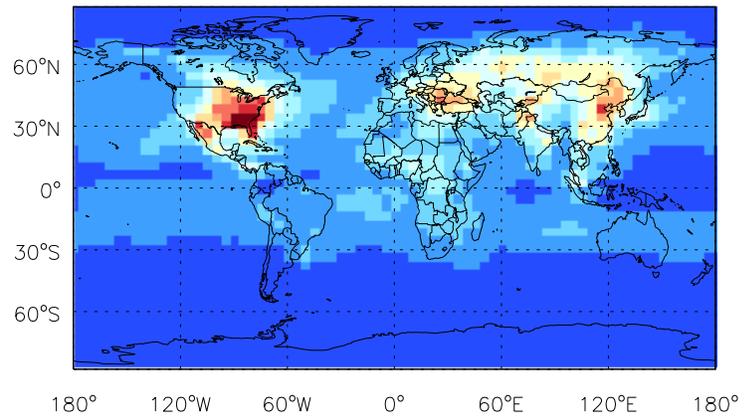
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - NO2



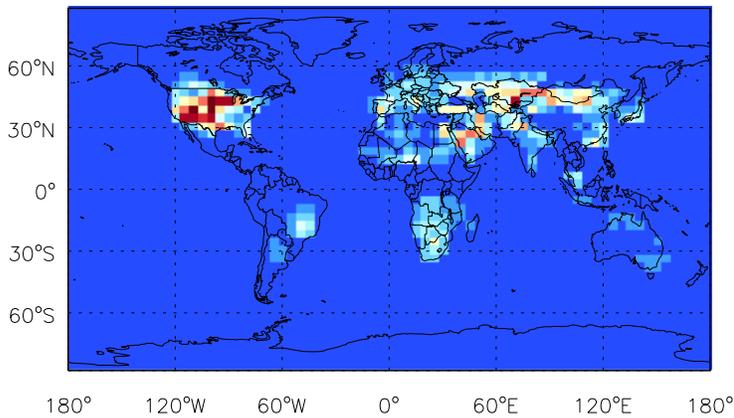
0.0000 2.9166 5.8331 8.7496 ppbv

Tracer Map @ 500 hPa - NO2



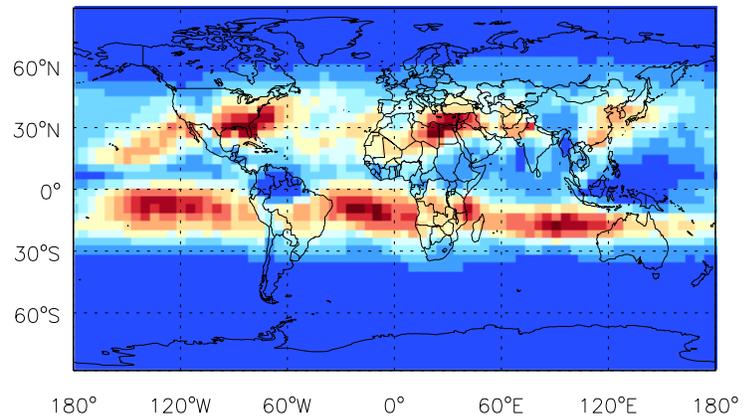
0.0004 0.0573 0.1143 0.1713 ppbv

Tracer Map @ Surface - NO3



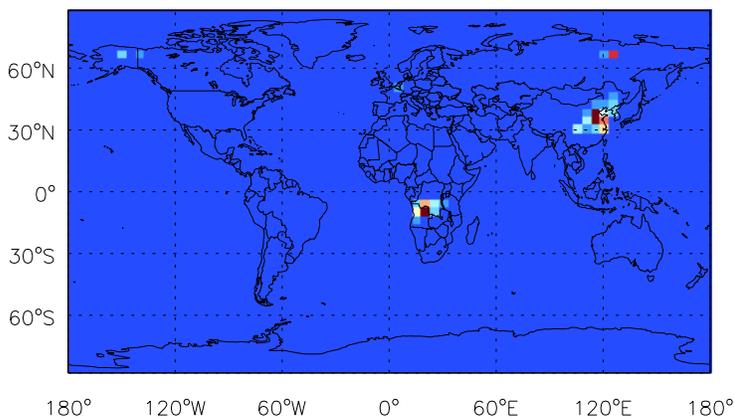
0.0000 0.0083 0.0166 0.0248 ppbv

Tracer Map @ 500 hPa - NO3



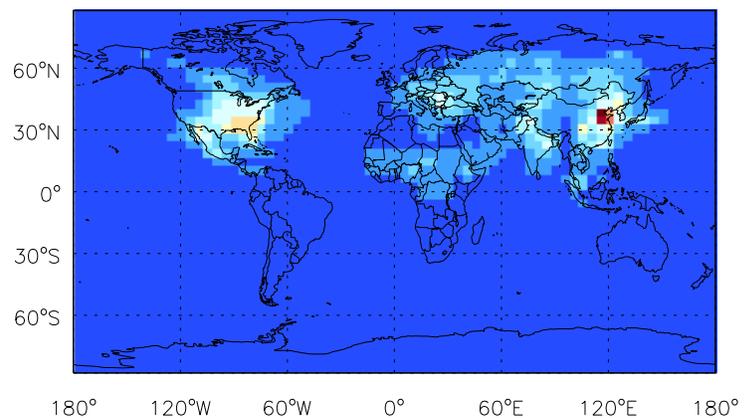
0.0000 0.0009 0.0019 0.0028 ppbv

Tracer Map @ Surface - HNO2



0.0000 0.6852 1.3704 2.0555 ppbv

Tracer Map @ 500 hPa - HNO2

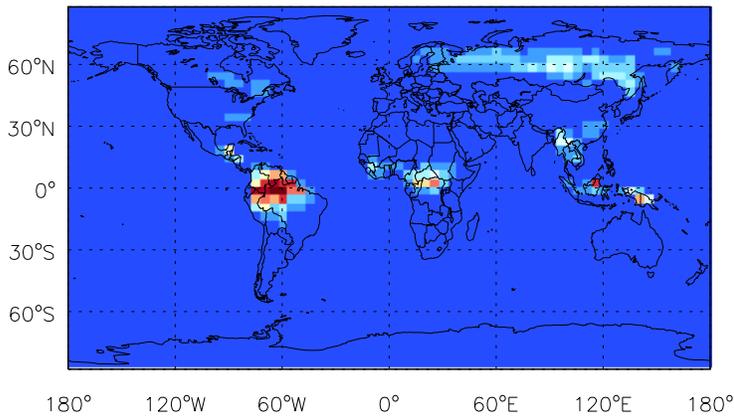


0.0000 0.0008 0.0016 0.0025 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

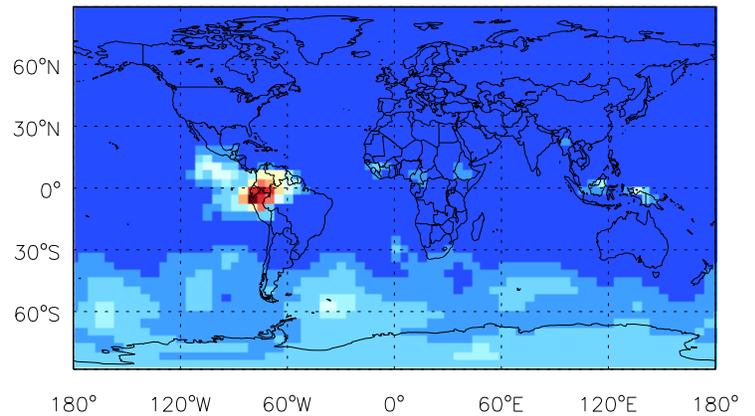
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - ALPH



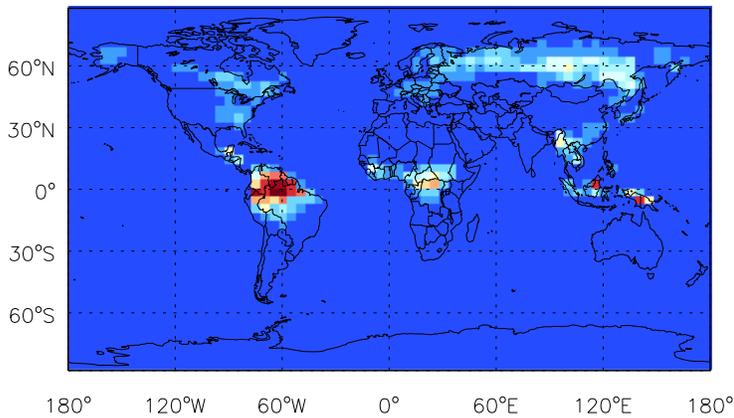
0.0000 0.4795 0.9590 1.4386 ppbv

Tracer Map @ 500 hPa - ALPH



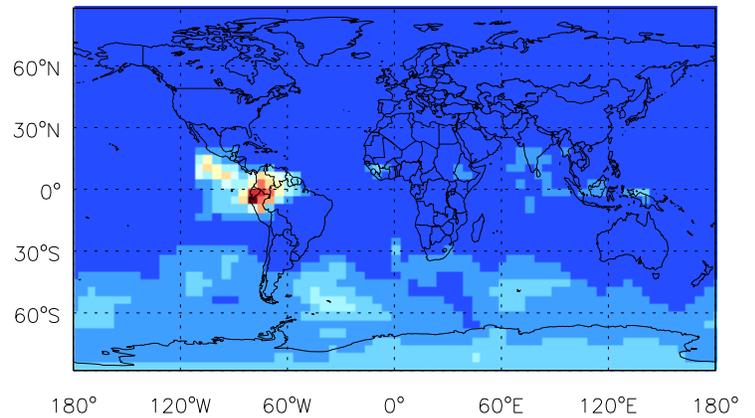
0.0000 0.0102 0.0205 0.0307 ppbv

Tracer Map @ Surface - LIMO



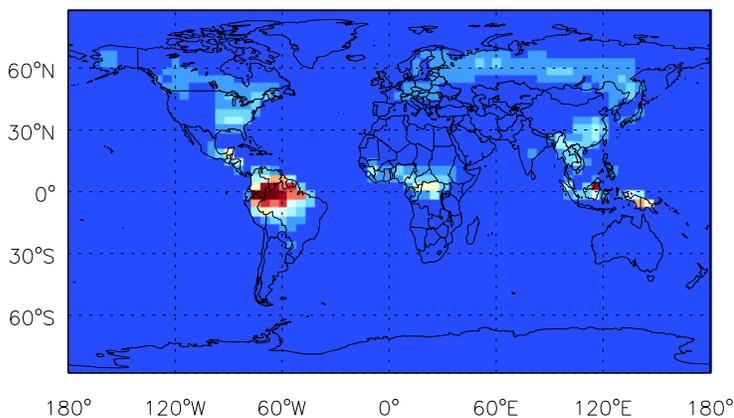
0.0000 0.0286 0.0572 0.0858 ppbv

Tracer Map @ 500 hPa - LIMO



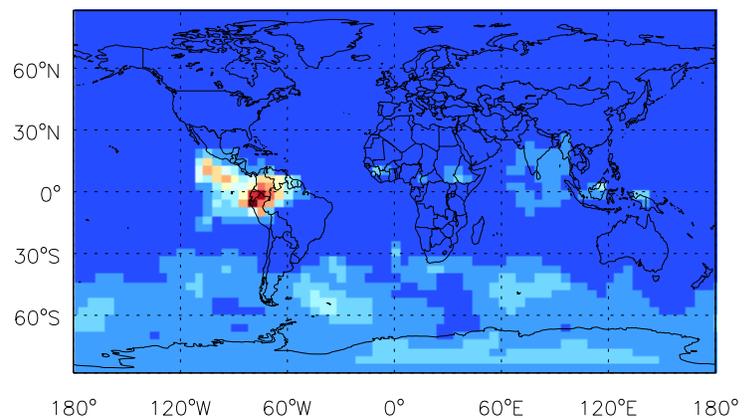
0.0000 0.0004 0.0008 0.0013 ppbv

Tracer Map @ Surface - ALCO



0.0000 0.0572 0.1144 0.1716 ppbv

Tracer Map @ 500 hPa - ALCO

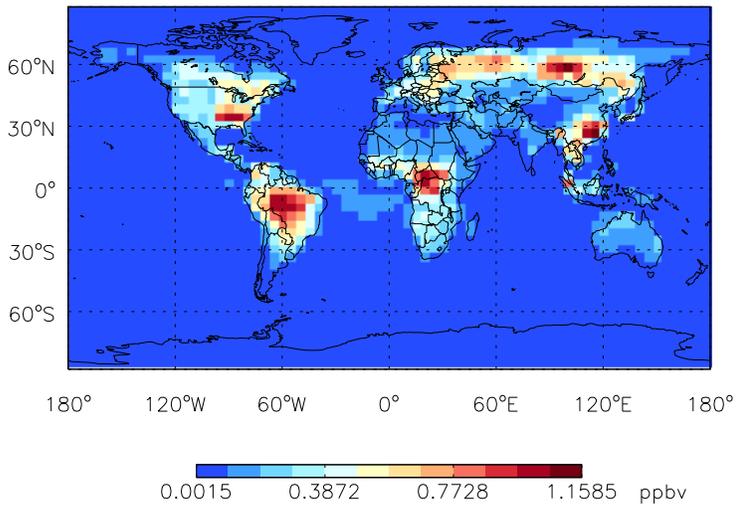


0.0000 0.0007 0.0015 0.0022 ppbv

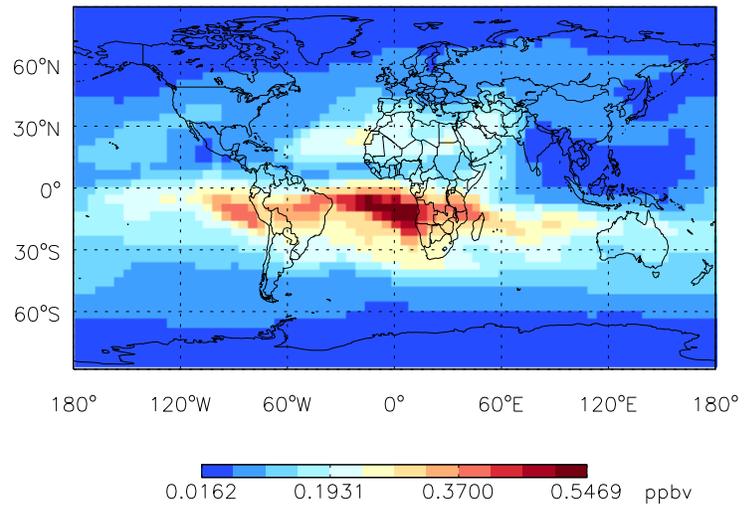
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

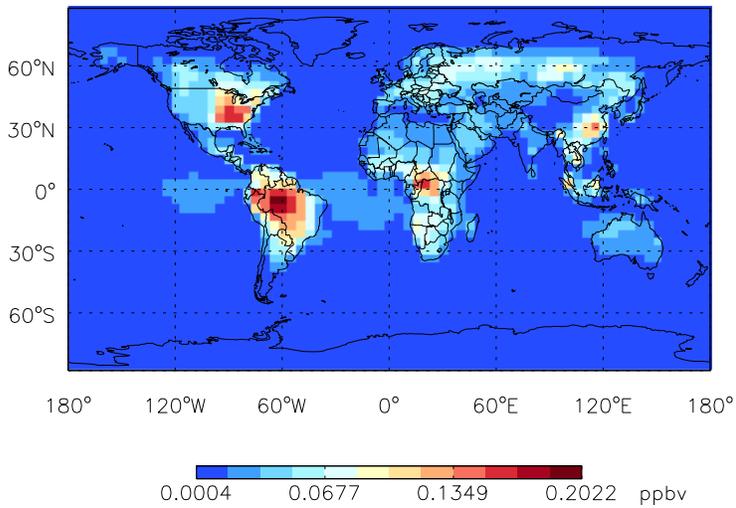
Tracer Map @ Surface – SOG1



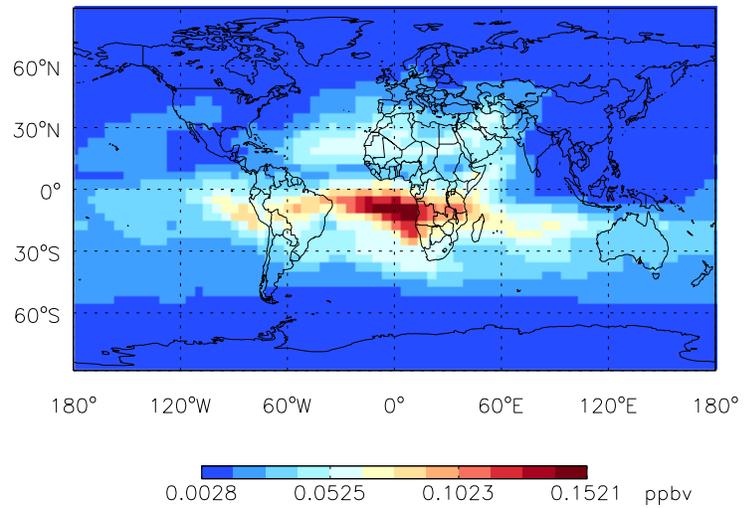
Tracer Map @ 500 hPa – SOG1



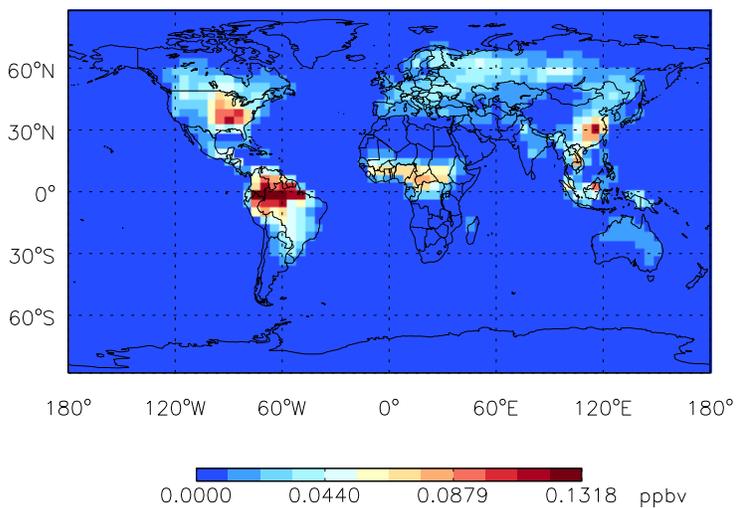
Tracer Map @ Surface – SOG2



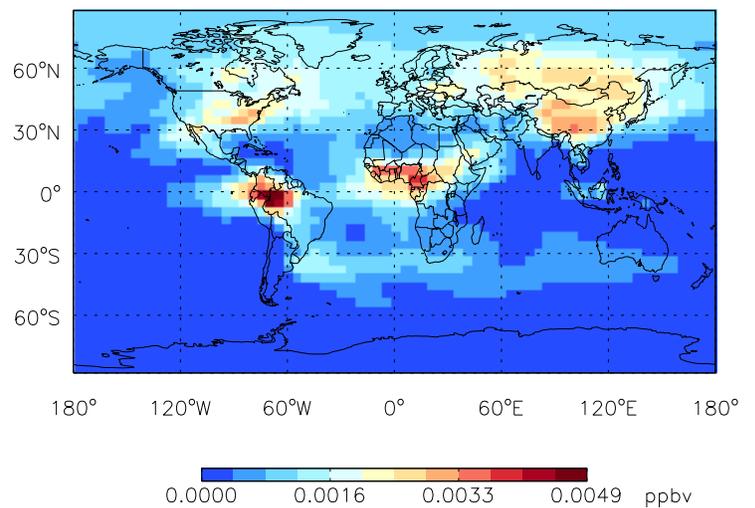
Tracer Map @ 500 hPa – SOG2



Tracer Map @ Surface – SOG3



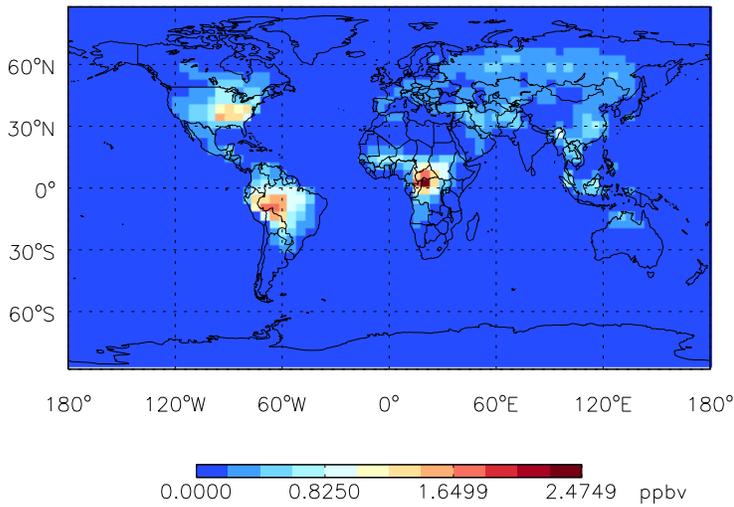
Tracer Map @ 500 hPa – SOG3



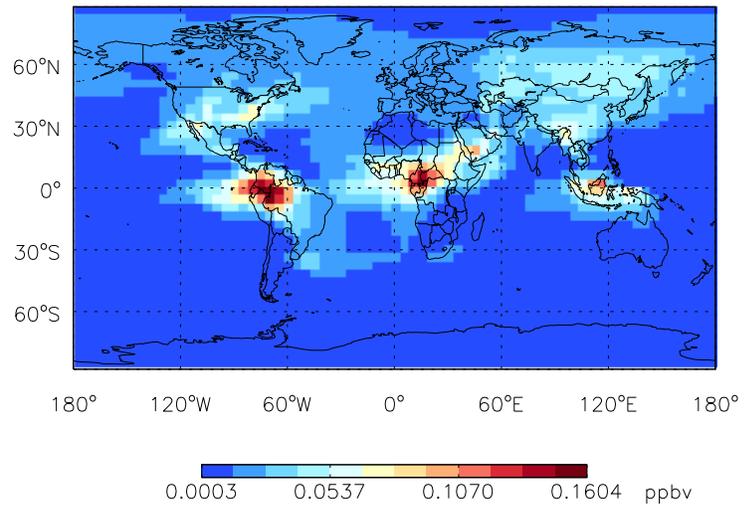
GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n_SOA

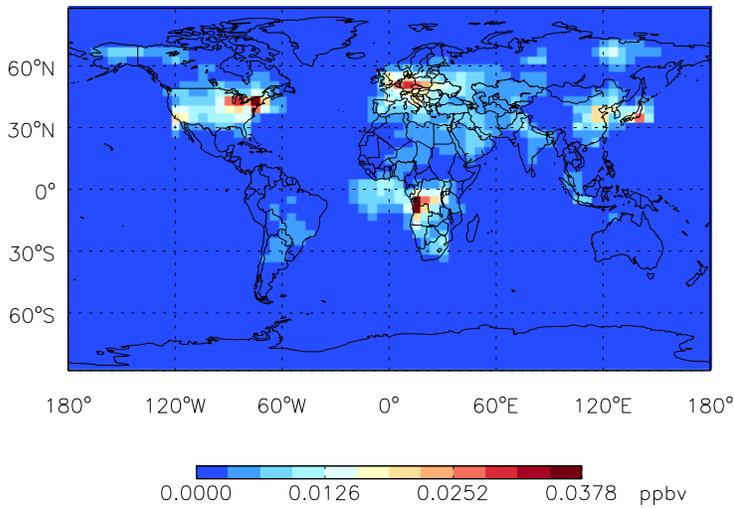
Tracer Map @ Surface - SOG4



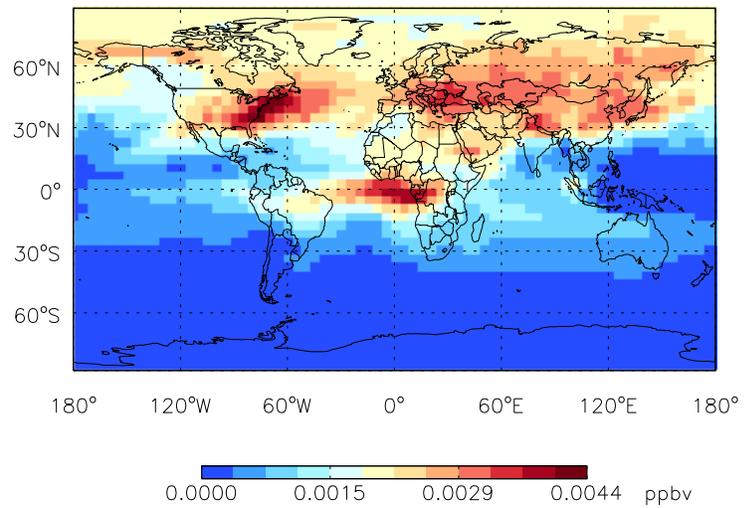
Tracer Map @ 500 hPa - SOG4



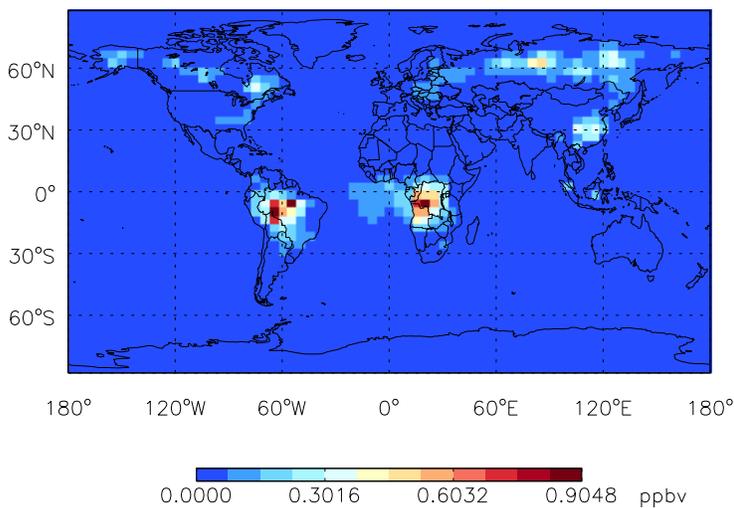
Tracer Map @ Surface - SOG5



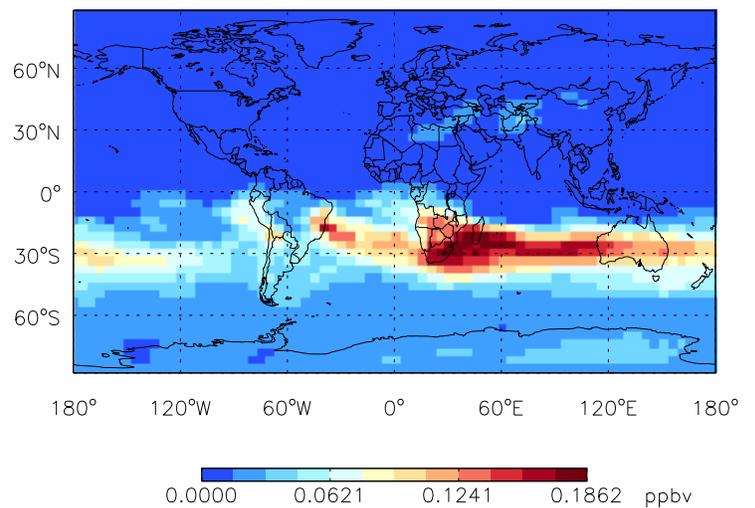
Tracer Map @ 500 hPa - SOG5



Tracer Map @ Surface - SOA1



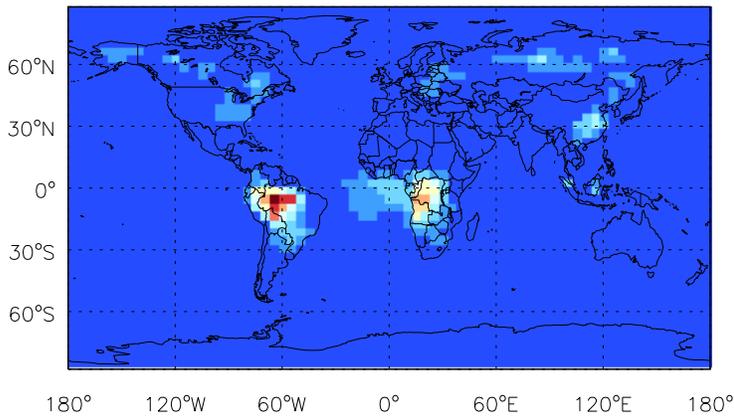
Tracer Map @ 500 hPa - SOA1



GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

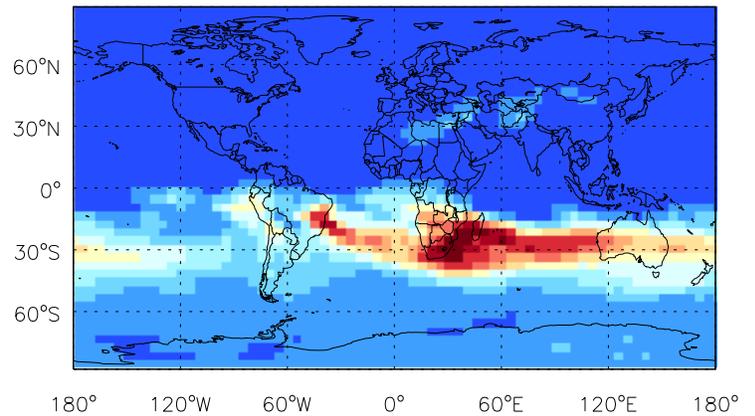
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - SOA2



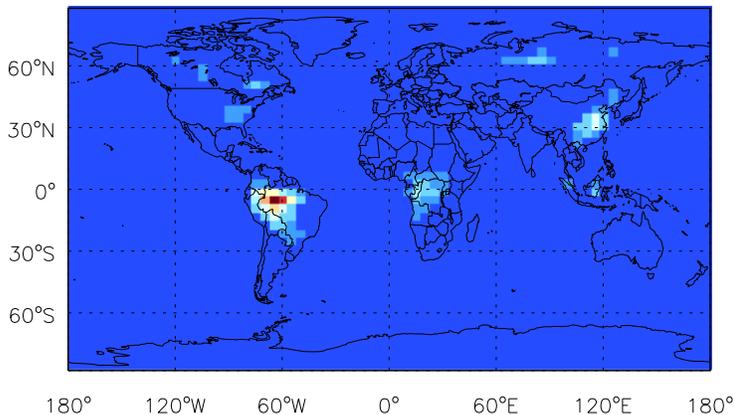
0.0000 0.0737 0.1474 0.2211 ppbv

Tracer Map @ 500 hPa - SOA2



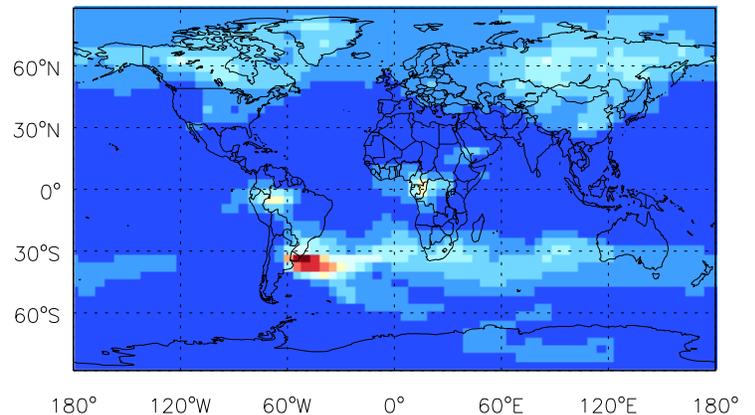
0.0000 0.0188 0.0375 0.0563 ppbv

Tracer Map @ Surface - SOA3



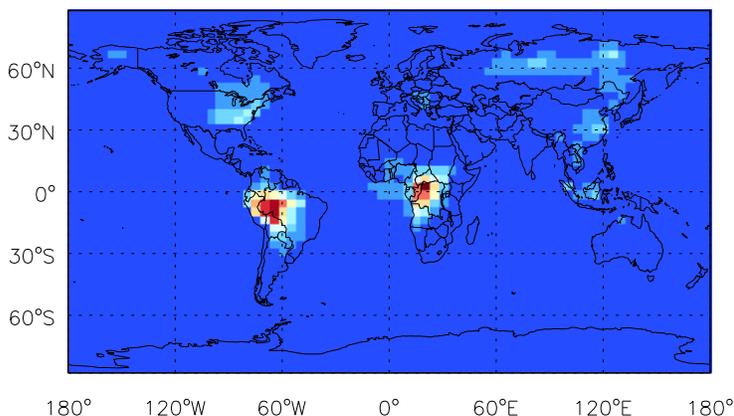
0.0000 0.0713 0.1426 0.2139 ppbv

Tracer Map @ 500 hPa - SOA3



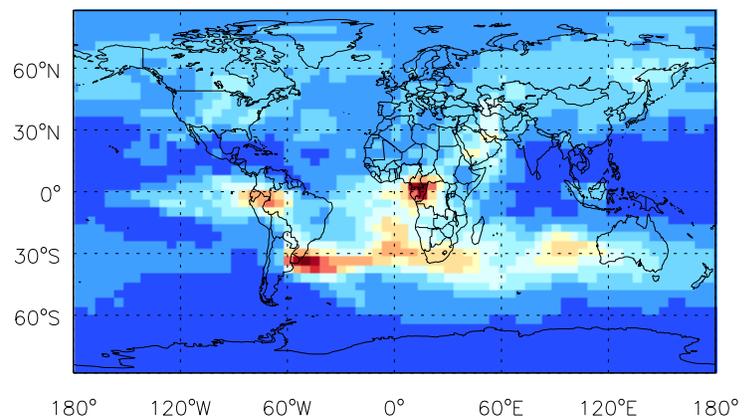
0.0000 0.0005 0.0010 0.0015 ppbv

Tracer Map @ Surface - SOA4



0.0000 0.2514 0.5027 0.7541 ppbv

Tracer Map @ 500 hPa - SOA4

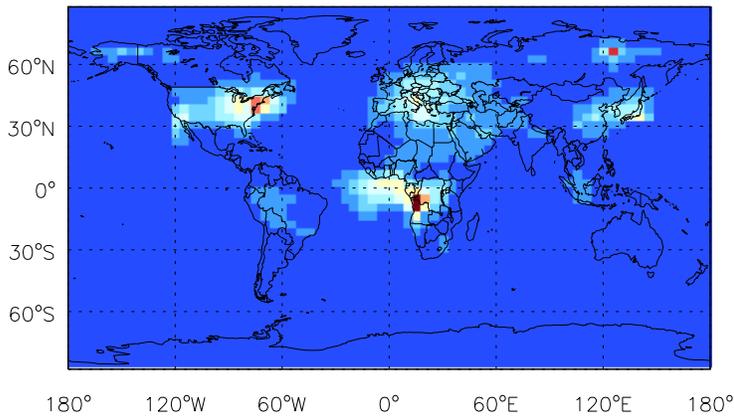


0.0000 0.0083 0.0165 0.0248 ppbv

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

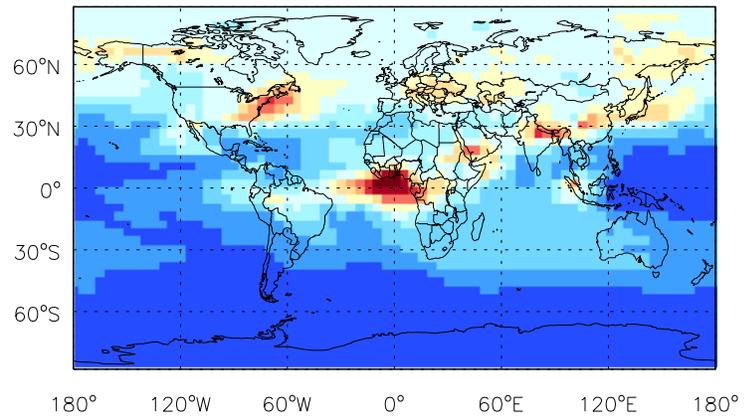
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - SOA5



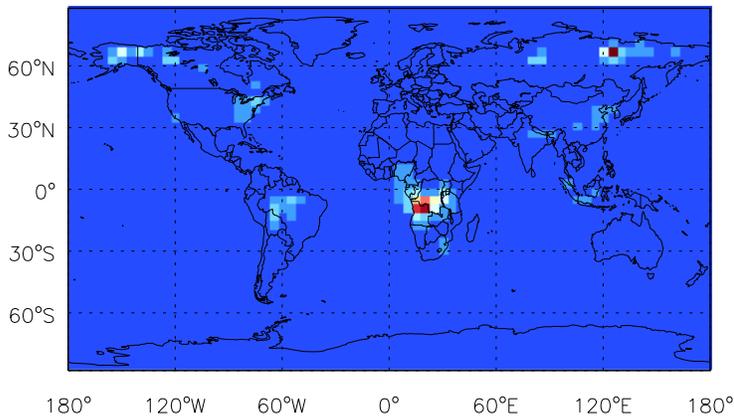
0.0000 0.0216 0.0432 0.0649 ppbv

Tracer Map @ 500 hPa - SOA5



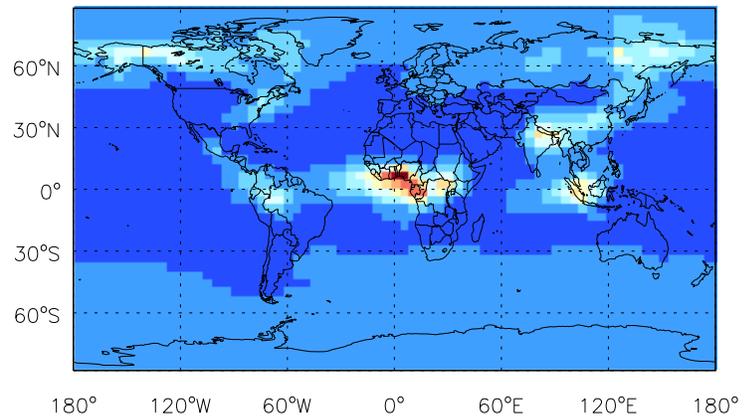
0.0000 0.0015 0.0029 0.0044 ppbv

Tracer Map @ Surface - BENZ



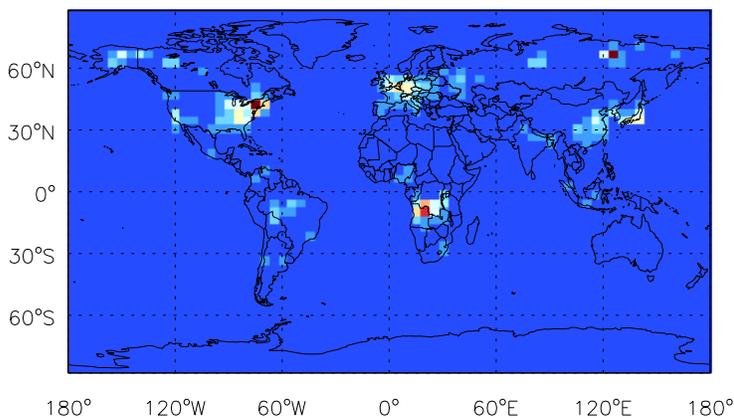
0.0011 2.7254 5.4497 8.1741 ppbC

Tracer Map @ 500 hPa - BENZ



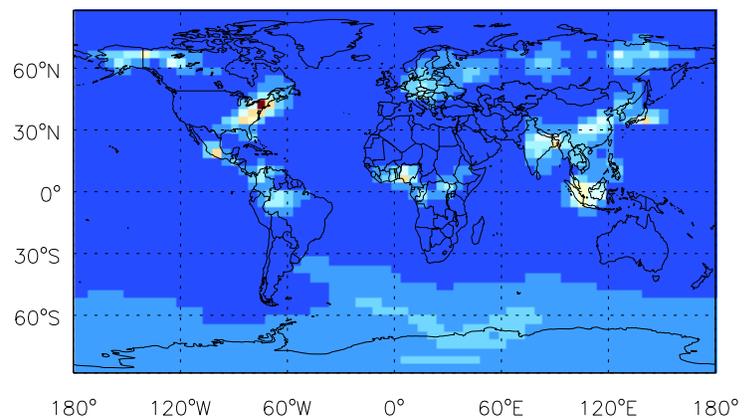
0.0014 0.0910 0.1806 0.2701 ppbC

Tracer Map @ Surface - TOLU



0.0000 1.6934 3.3867 5.0801 ppbC

Tracer Map @ 500 hPa - TOLU

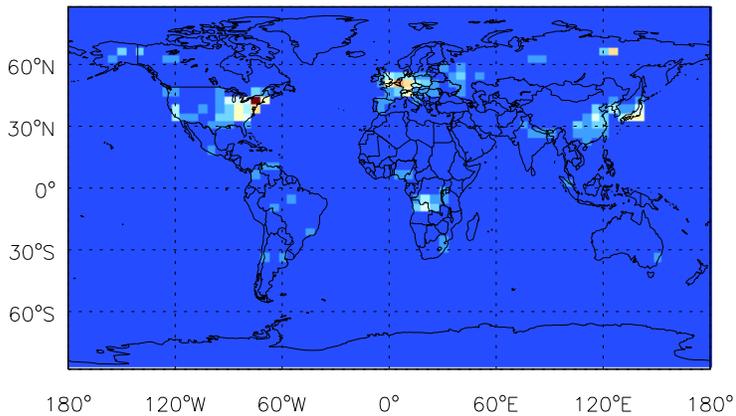


0.0000 0.0205 0.0409 0.0614 ppbC

GEOS-Chem v9-02n_SOA Tracer Maps at Surface and 500 hPa

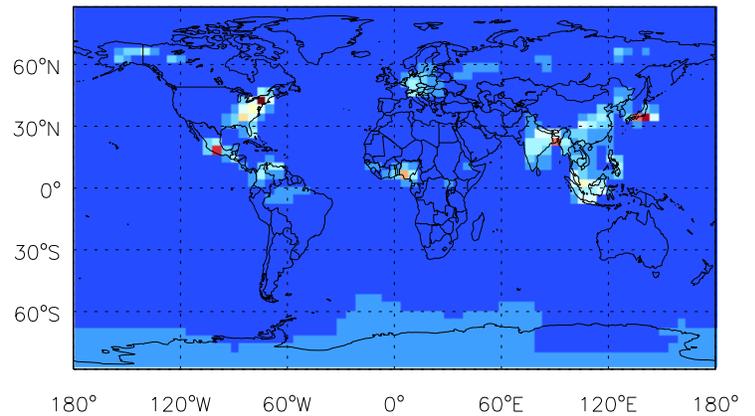
ctm.bpch.v9-02n_SOA

Tracer Map @ Surface - XYLE



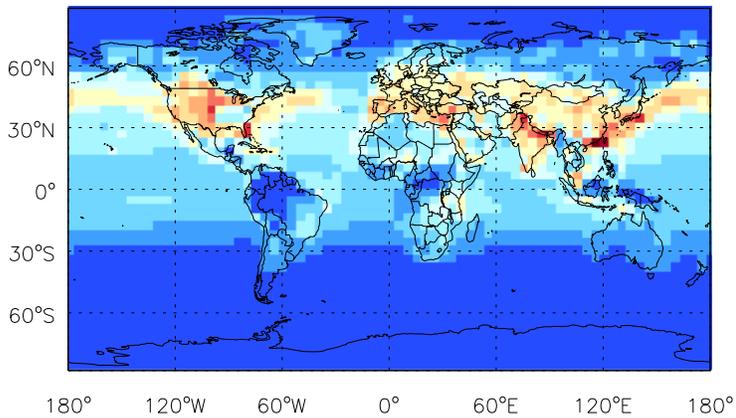
0.0000 1.0926 2.1852 3.2778 ppbC

Tracer Map @ 500 hPa - XYLE



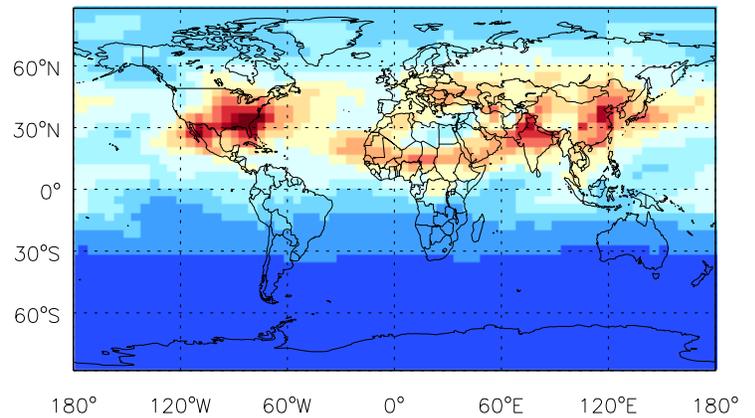
0.0000 0.0035 0.0070 0.0105 ppbC

Tracer Map @ Surface - OH



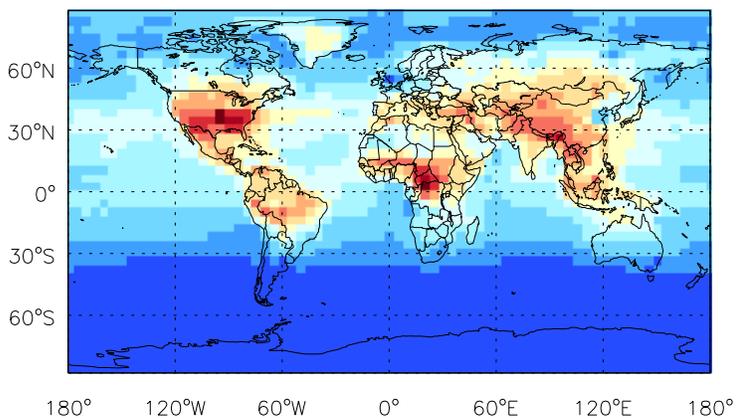
0.0000 20.2516 40.5031 60.7546 1e5 molec/cm3

Tracer Map @ 500 hPa - OH



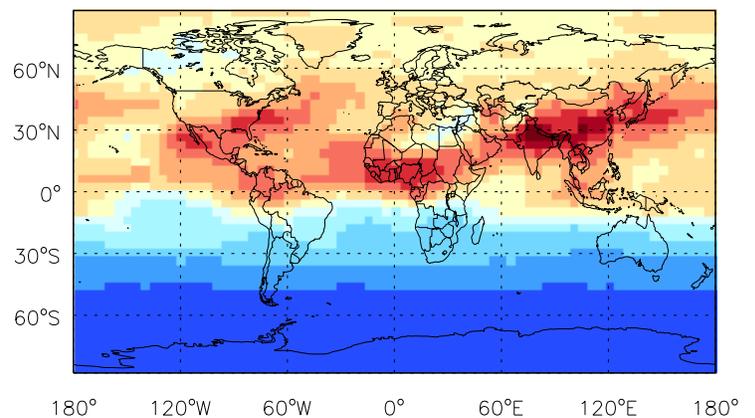
0.0002 16.7016 33.4031 50.1045 1e5 molec/cm3

Tracer Map @ Surface - HO2



0.0002 6.0980 12.1958 18.2936 pptv

Tracer Map @ 500 hPa - HO2



0.0008 5.1113 10.2217 15.3322 pptv