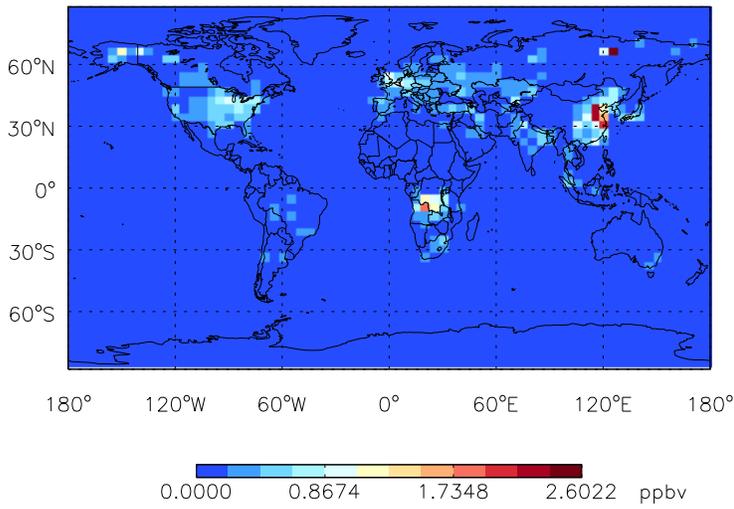


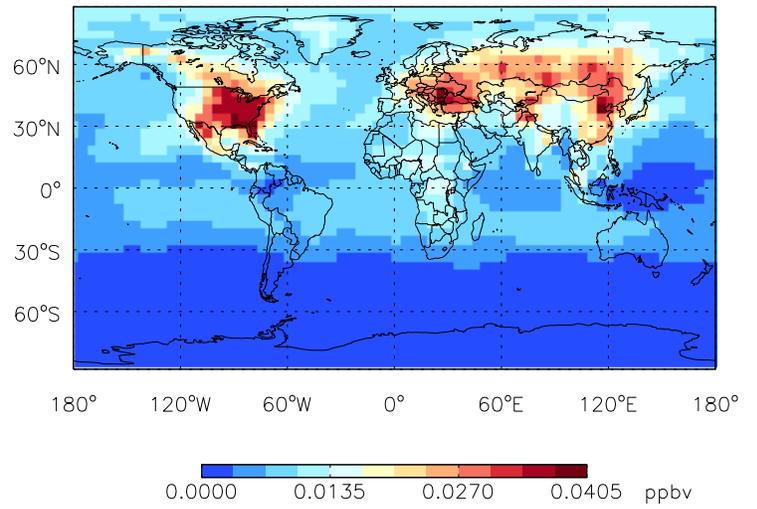
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n

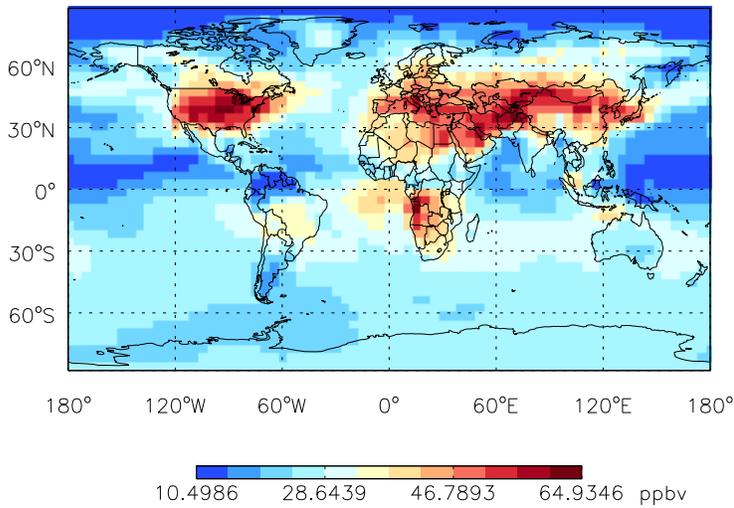
Tracer Map @ Surface - NO



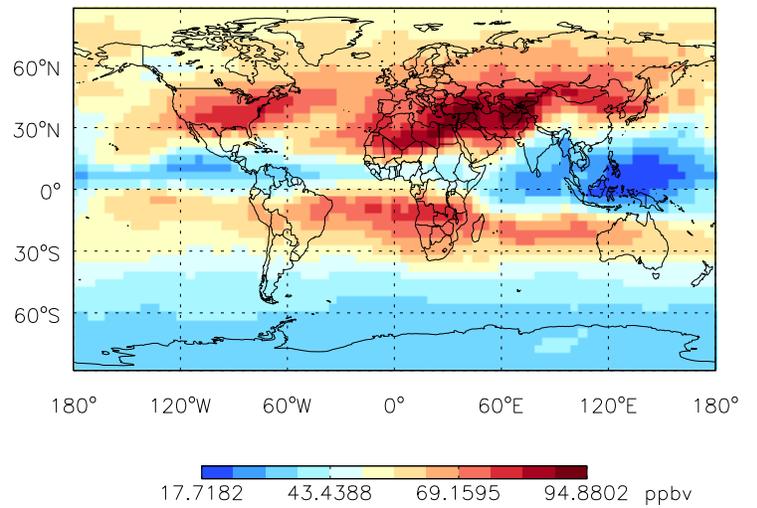
Tracer Map @ 500 hPa - NO



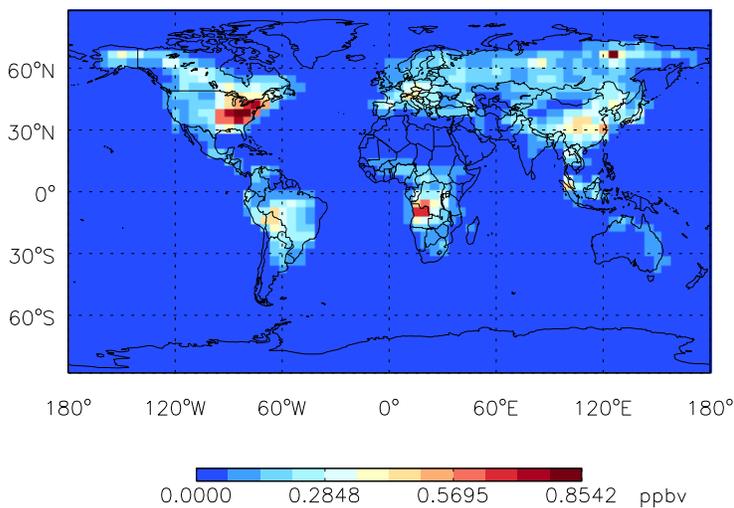
Tracer Map @ Surface - O3



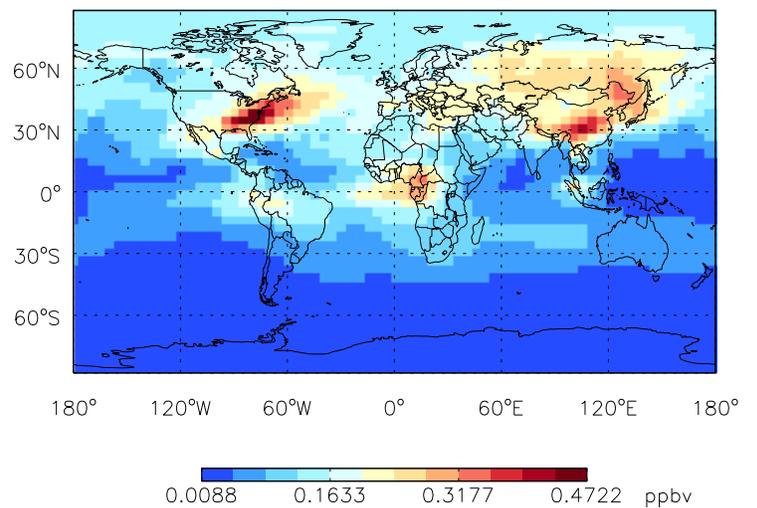
Tracer Map @ 500 hPa - O3



Tracer Map @ Surface - PAN



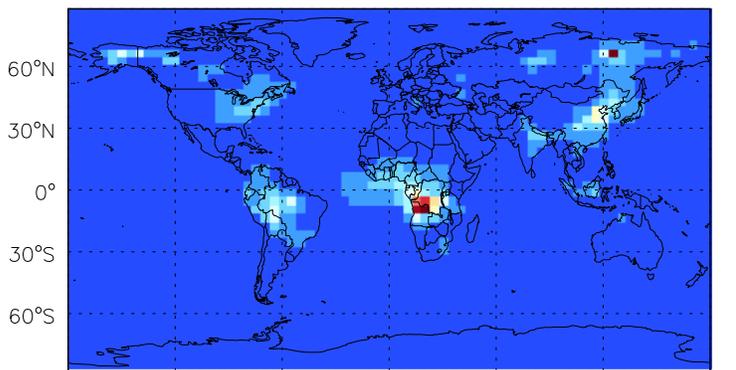
Tracer Map @ 500 hPa - PAN



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

ctm.bpch.v9-02n

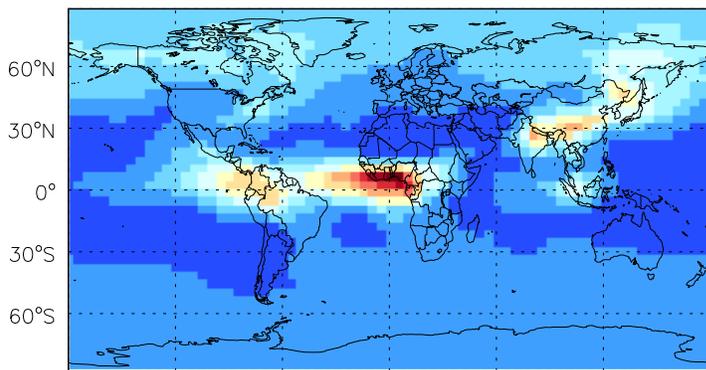
Tracer Map @ Surface - CO



180° 120°W 60°W 0° 60°E 120°E 180°

58.3422 356.3389 654.3356 952.3322 ppbv

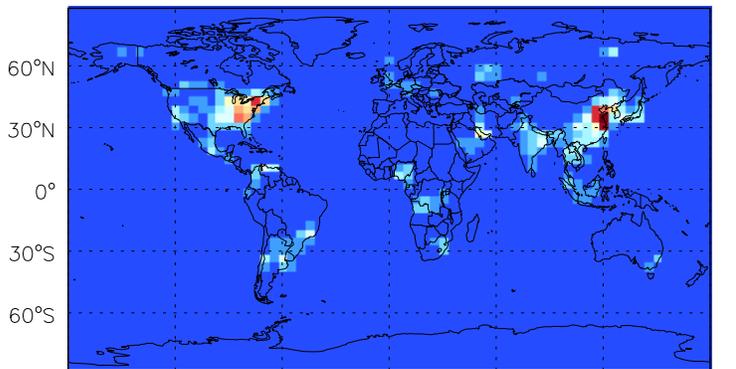
Tracer Map @ 500 hPa - CO



180° 120°W 60°W 0° 60°E 120°E 180°

57.7387 89.2553 120.7719 152.2885 ppbv

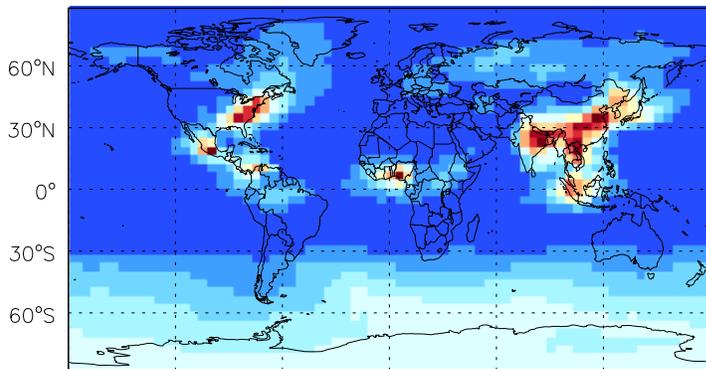
Tracer Map @ Surface - ALK4



180° 120°W 60°W 0° 60°E 120°E 180°

0.0009 5.2704 10.5399 15.8094 ppbC

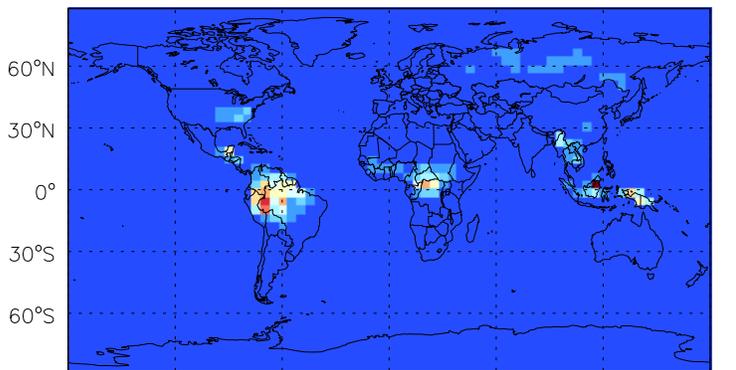
Tracer Map @ 500 hPa - ALK4



180° 120°W 60°W 0° 60°E 120°E 180°

0.0014 0.1764 0.3515 0.5265 ppbC

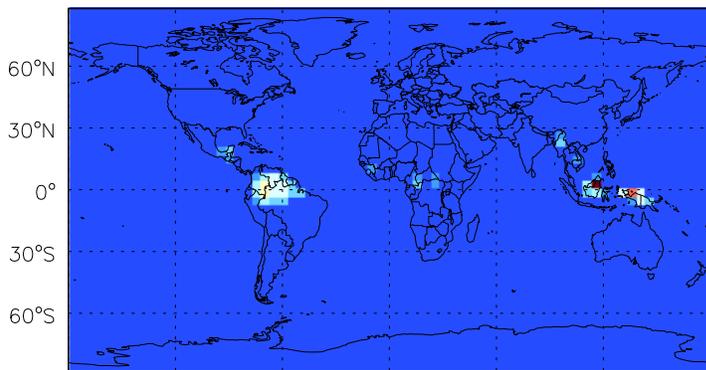
Tracer Map @ Surface - ISOP



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 20.4848 40.9696 61.4544 ppbC

Tracer Map @ 500 hPa - ISOP



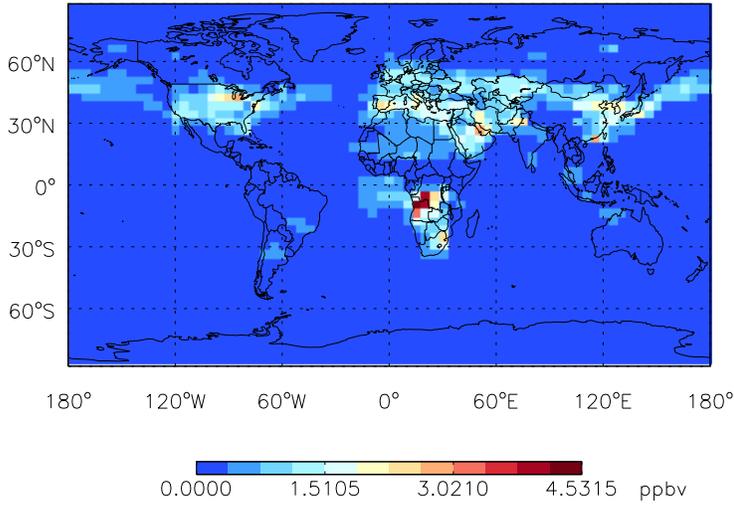
180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.5829 1.1658 1.7487 ppbC

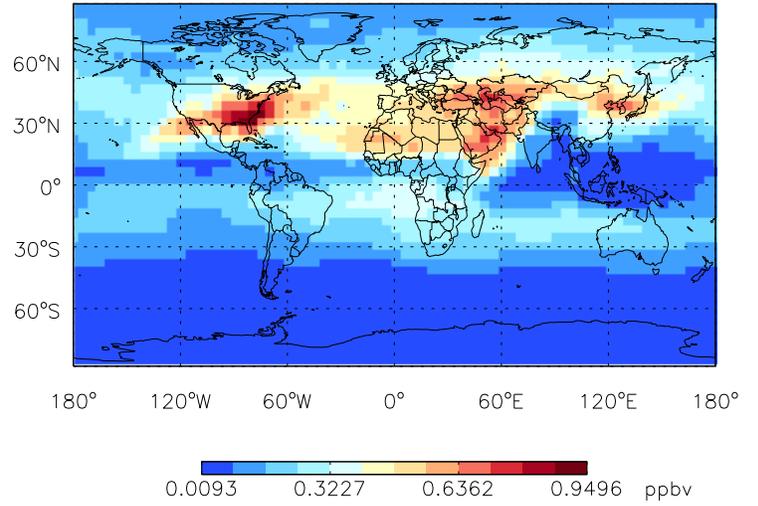
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

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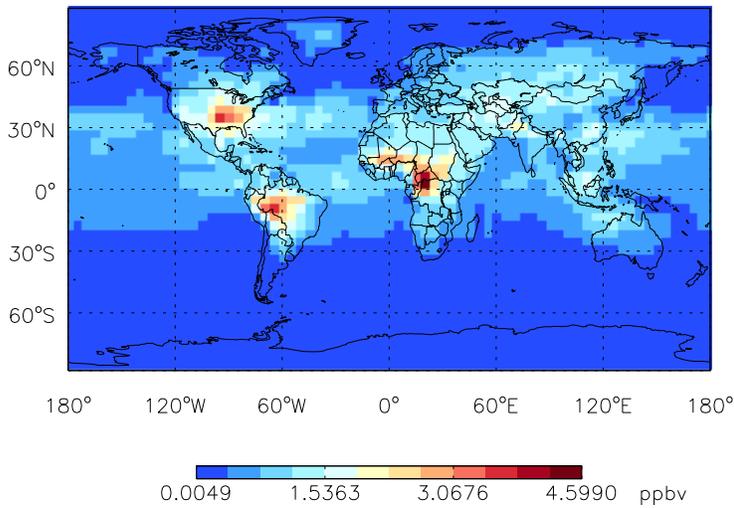
Tracer Map @ Surface – HNO₃



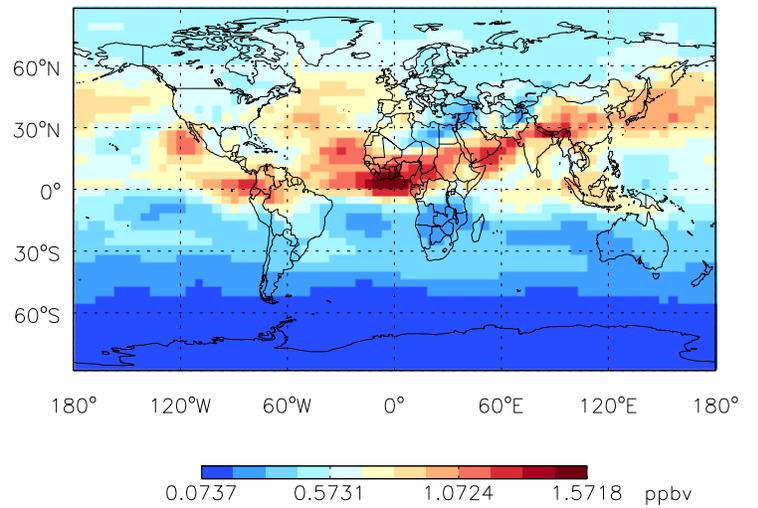
Tracer Map @ 500 hPa – HNO₃



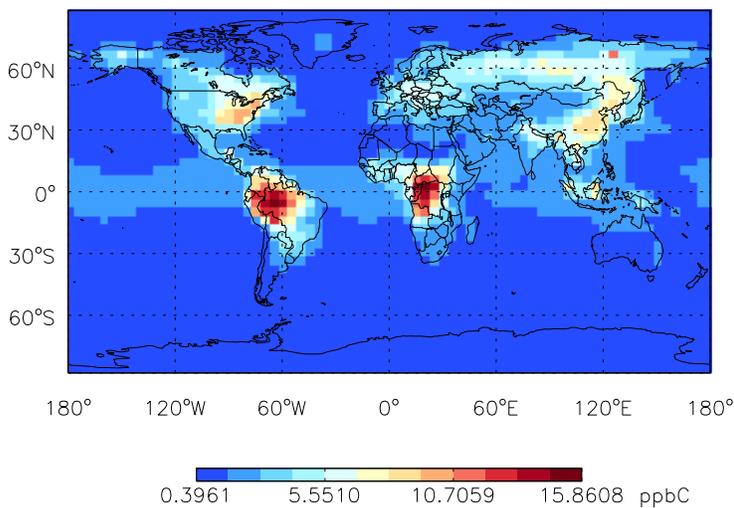
Tracer Map @ Surface – H₂O₂



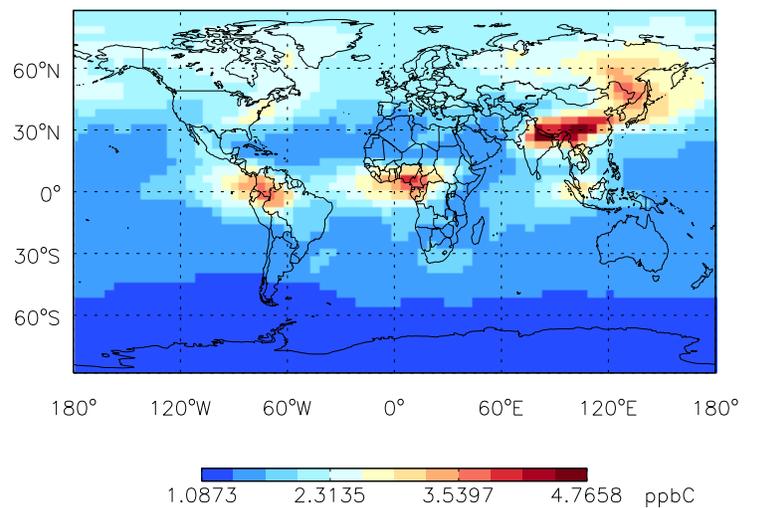
Tracer Map @ 500 hPa – H₂O₂



Tracer Map @ Surface – ACET



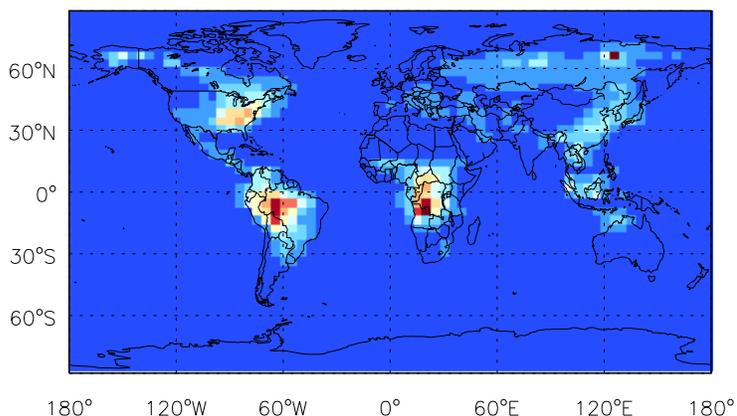
Tracer Map @ 500 hPa – ACET



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

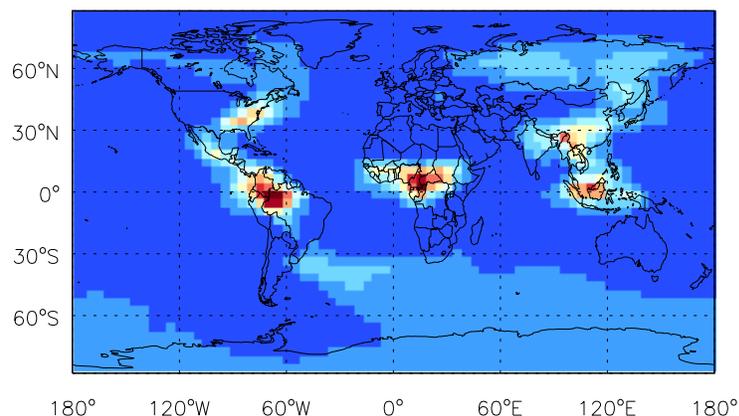
ctm.bpch.v9-02n

Tracer Map @ Surface – MEK



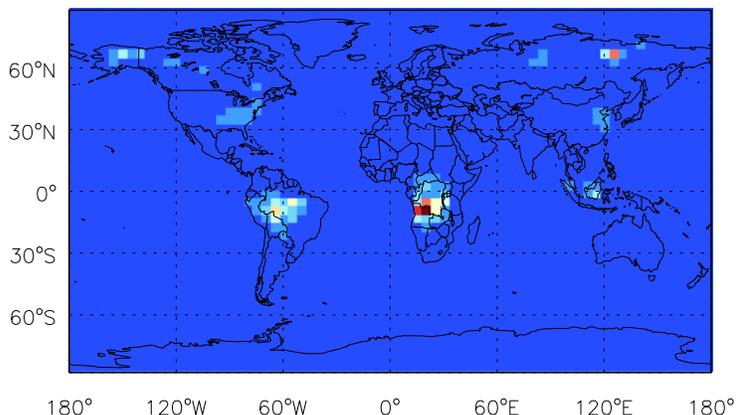
0.0007 2.3188 4.6368 6.9549 ppbC

Tracer Map @ 500 hPa – MEK



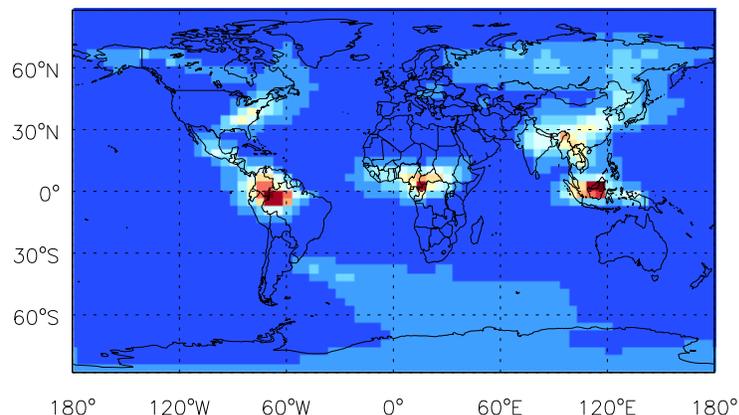
0.0006 0.2325 0.4644 0.6963 ppbC

Tracer Map @ Surface – ALD2



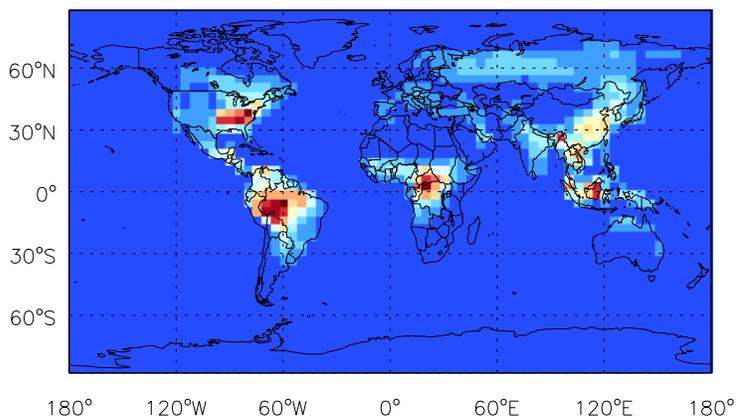
0.0051 2.9384 5.8717 8.8050 ppbC

Tracer Map @ 500 hPa – ALD2



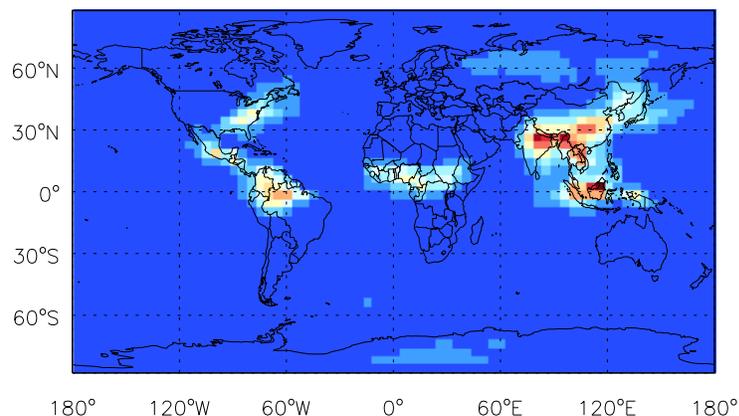
0.0044 0.0624 0.1203 0.1782 ppbC

Tracer Map @ Surface – RCHO



0.0000 0.0468 0.0935 0.1402 ppbv

Tracer Map @ 500 hPa – RCHO

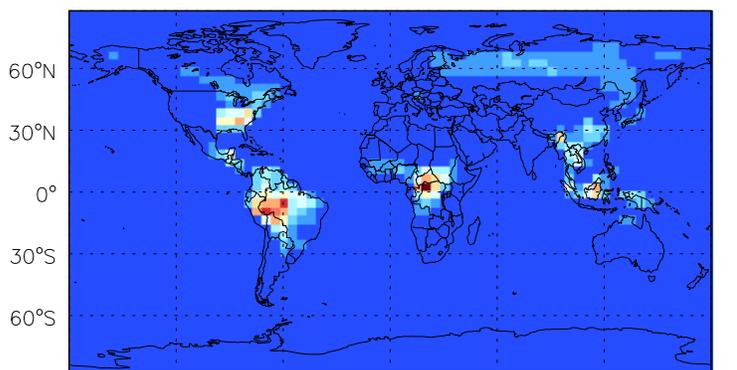


0.0001 0.0039 0.0078 0.0117 ppbv

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

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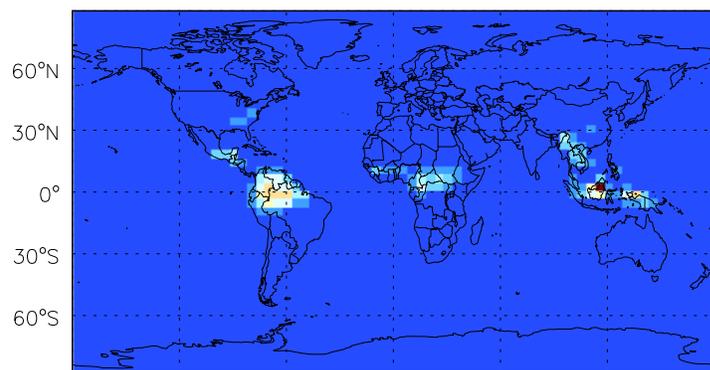
Tracer Map @ Surface - MVK



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.6624 1.3247 1.9871 ppbv

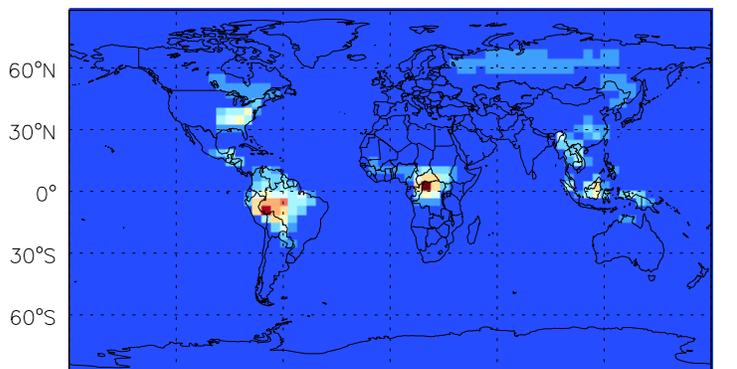
Tracer Map @ 500 hPa - MVK



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0503 0.1006 0.1509 ppbv

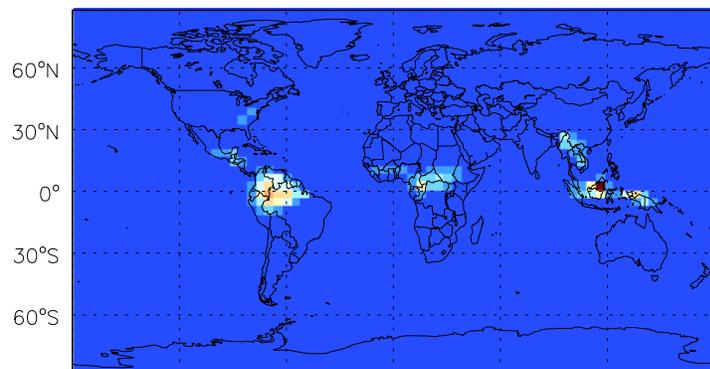
Tracer Map @ Surface - MACR



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.6072 1.2145 1.8217 ppbv

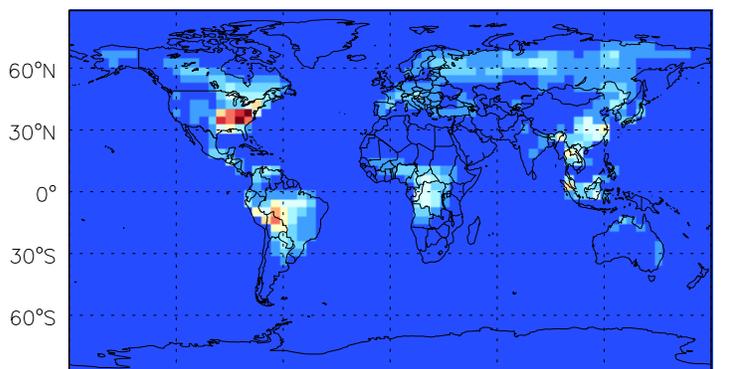
Tracer Map @ 500 hPa - MACR



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0359 0.0717 0.1076 ppbv

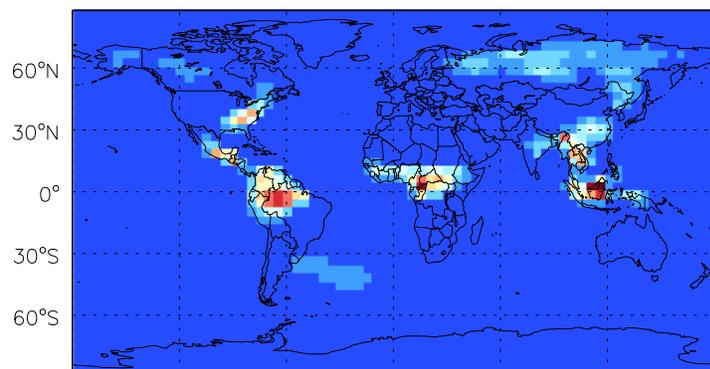
Tracer Map @ Surface - PMN



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0224 0.0447 0.0671 ppbv

Tracer Map @ 500 hPa - PMN



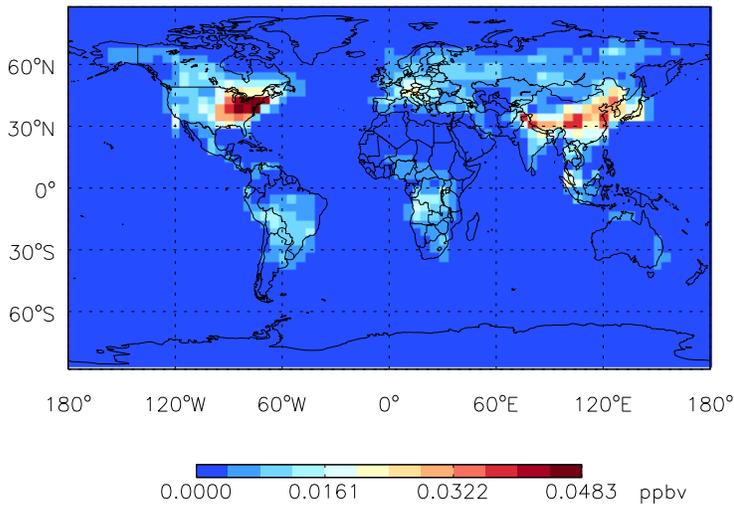
180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0009 0.0018 0.0028 ppbv

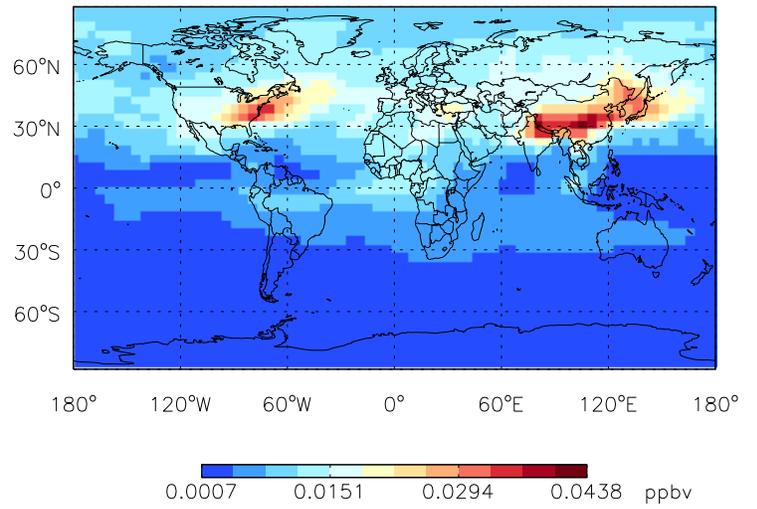
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

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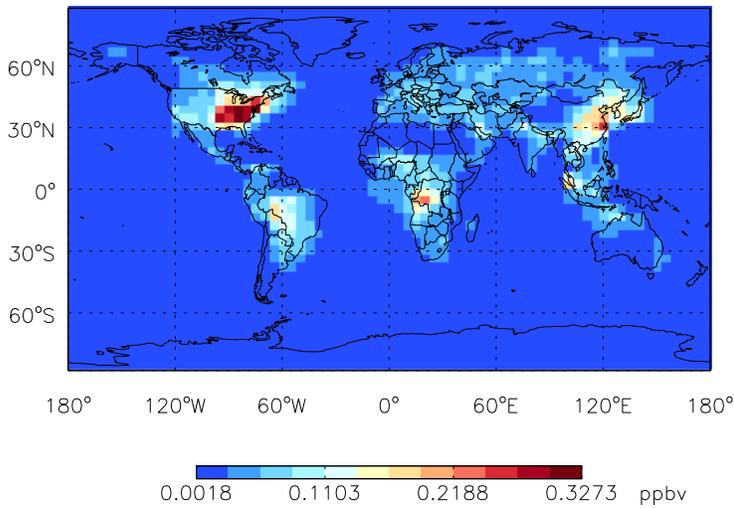
Tracer Map @ Surface - PPN



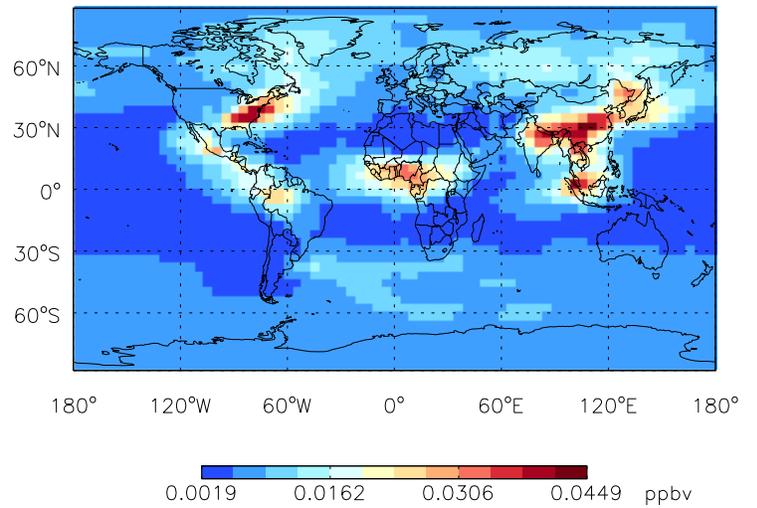
Tracer Map @ 500 hPa - PPN



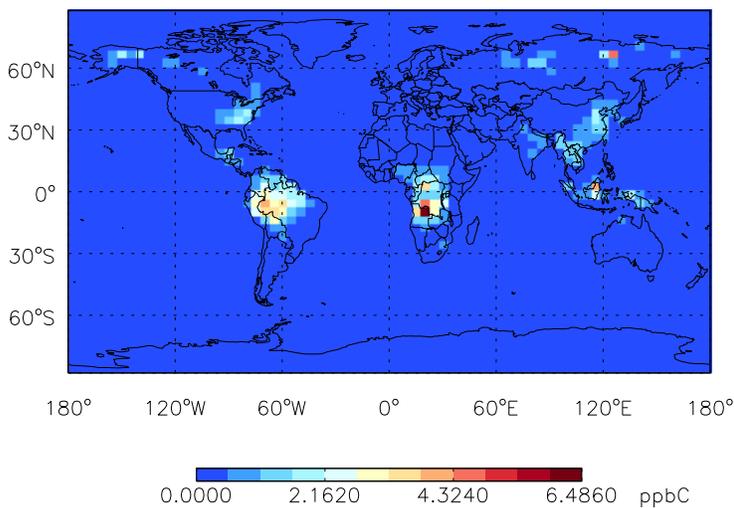
Tracer Map @ Surface - R4N2



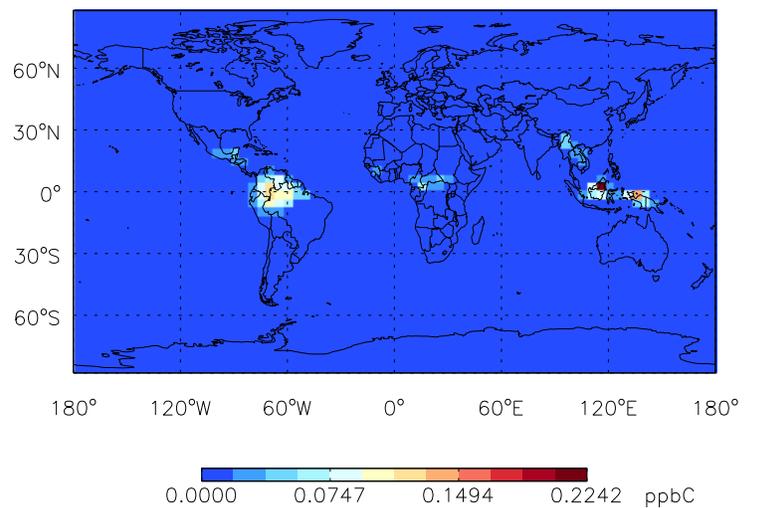
Tracer Map @ 500 hPa - R4N2



Tracer Map @ Surface - PRPE



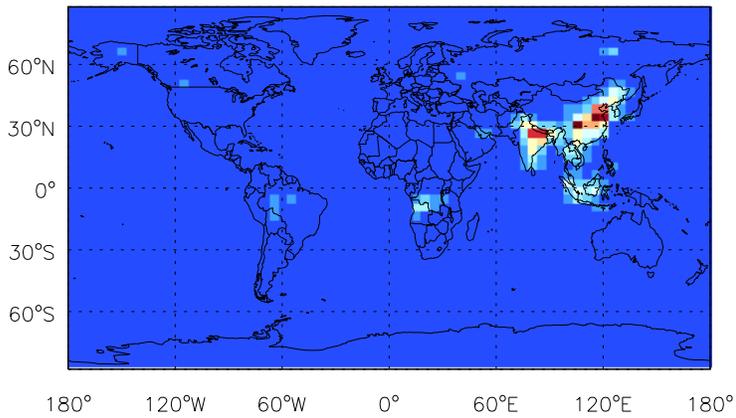
Tracer Map @ 500 hPa - PRPE



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

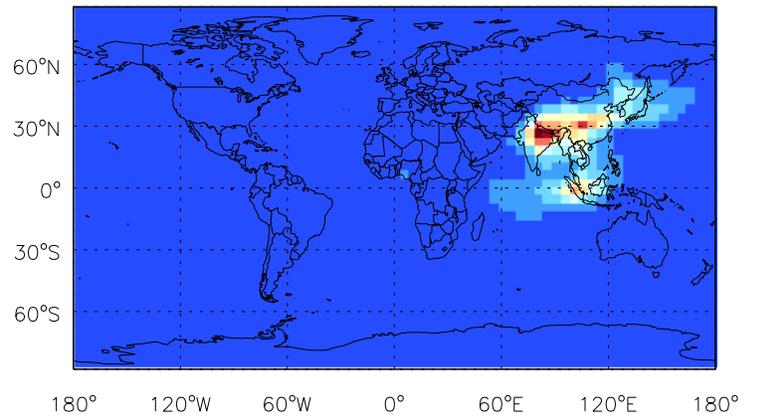
ctm.bpch.v9-02n

Tracer Map @ Surface - C3H8



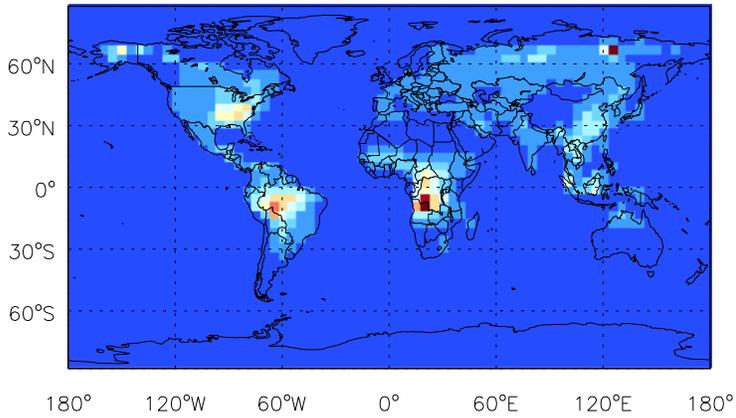
0.0071 5.1713 10.3355 15.4996 ppbC

Tracer Map @ 500 hPa - C3H8



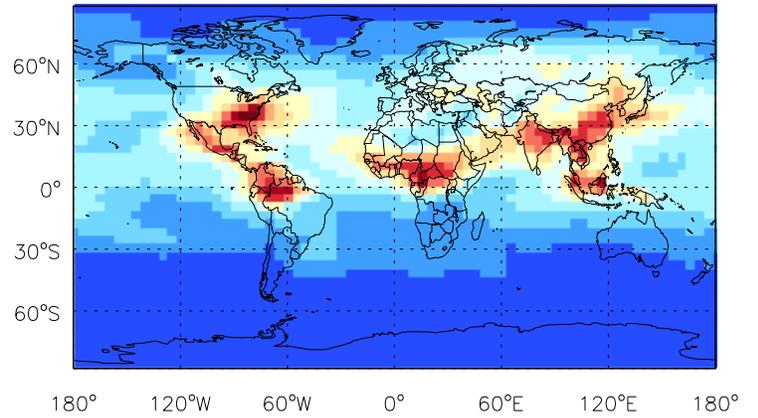
0.0133 0.7571 1.5010 2.2448 ppbC

Tracer Map @ Surface - CH2O



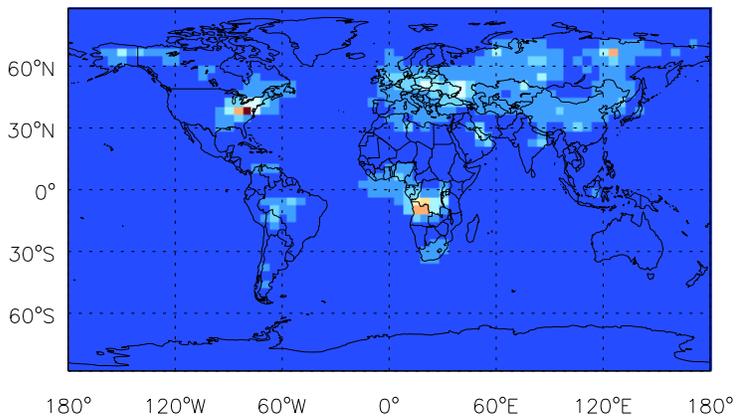
0.0147 3.6559 7.2972 10.9384 ppbv

Tracer Map @ 500 hPa - CH2O



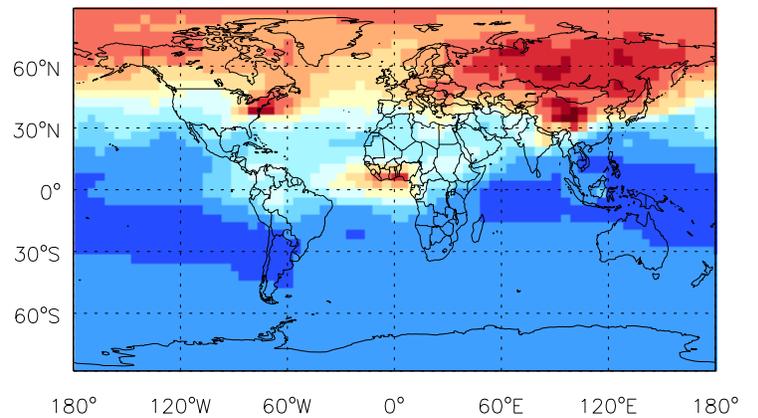
0.0514 0.1945 0.3376 0.4808 ppbv

Tracer Map @ Surface - C2H6



0.3549 6.1095 11.8642 17.6188 ppbC

Tracer Map @ 500 hPa - C2H6

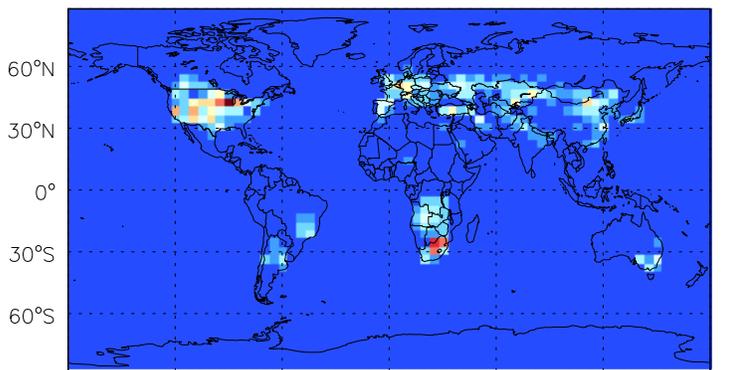


0.3835 0.8181 1.2527 1.6874 ppbC

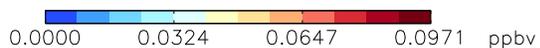
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n

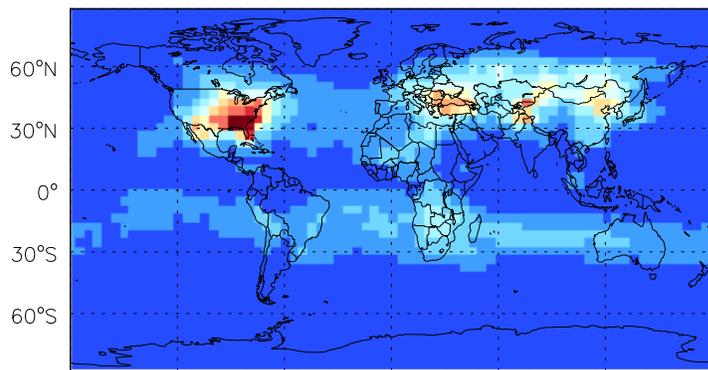
Tracer Map @ Surface – N2O5



180° 120°W 60°W 0° 60°E 120°E 180°



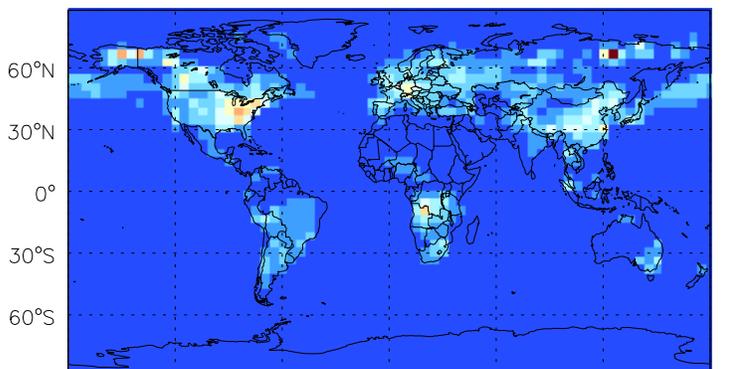
Tracer Map @ 500 hPa – N2O5



180° 120°W 60°W 0° 60°E 120°E 180°



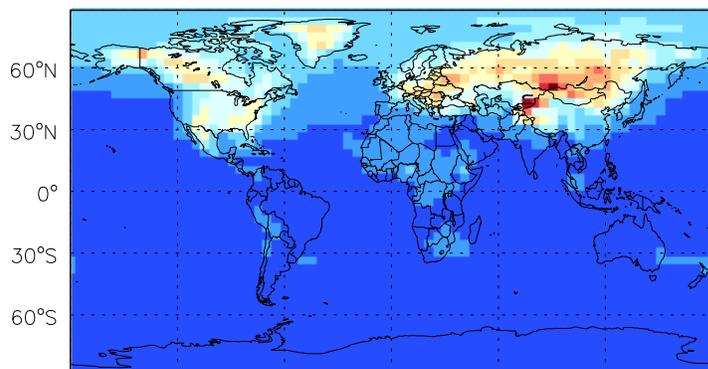
Tracer Map @ Surface – HNO4



180° 120°W 60°W 0° 60°E 120°E 180°



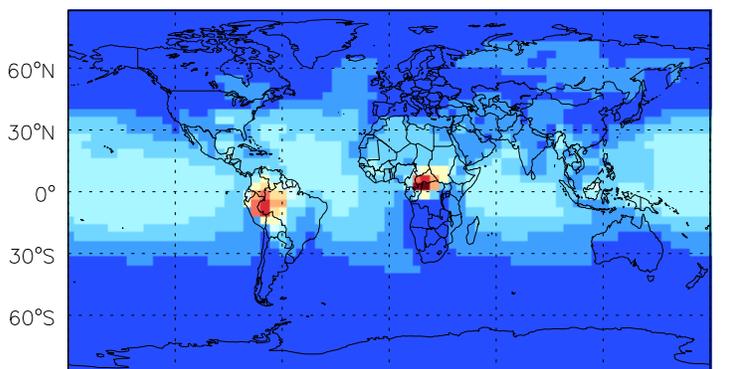
Tracer Map @ 500 hPa – HNO4



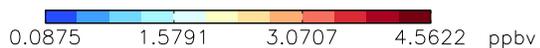
180° 120°W 60°W 0° 60°E 120°E 180°



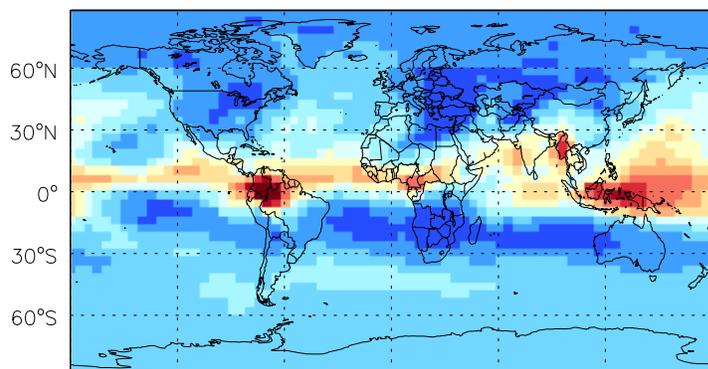
Tracer Map @ Surface – MP



180° 120°W 60°W 0° 60°E 120°E 180°



Tracer Map @ 500 hPa – MP



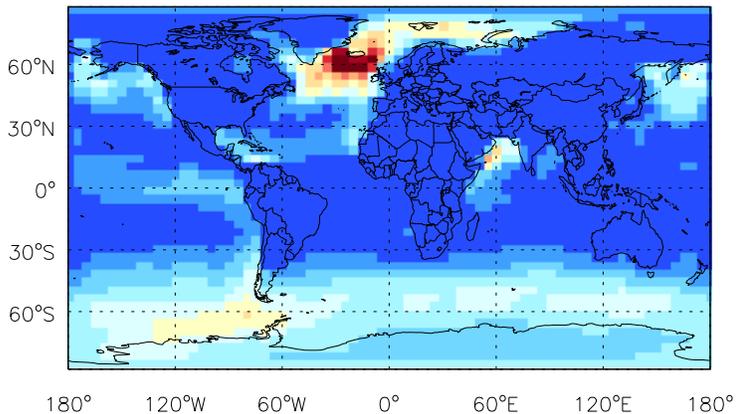
180° 120°W 60°W 0° 60°E 120°E 180°



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

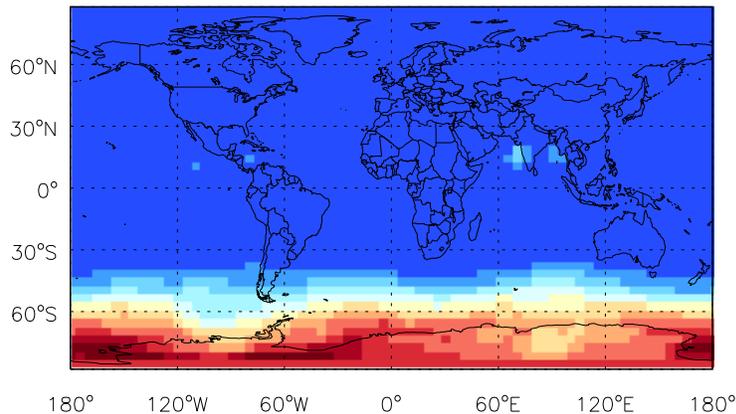
ctm.bpch.v9-02n

Tracer Map @ Surface - DMS



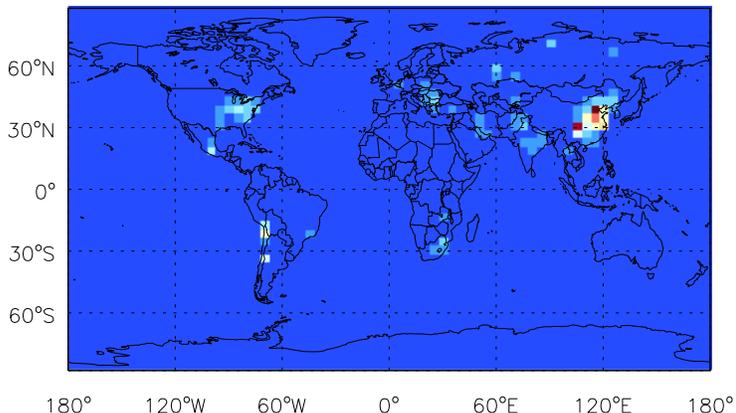
0.0000 0.3696 0.7391 1.1087 ppbv

Tracer Map @ 500 hPa - DMS



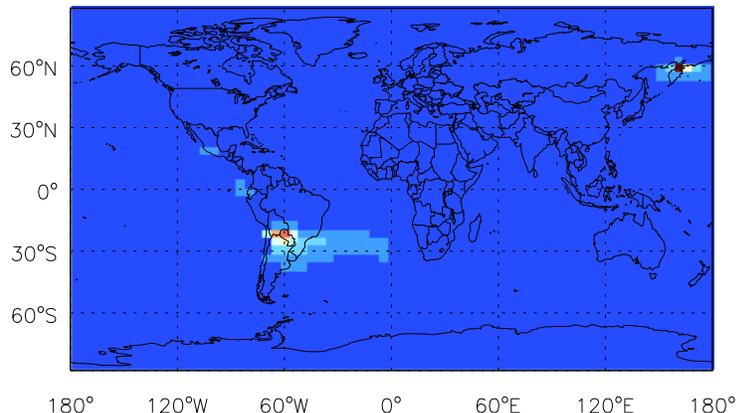
0.0000 0.0560 0.1119 0.1679 ppbv

Tracer Map @ Surface - SO2



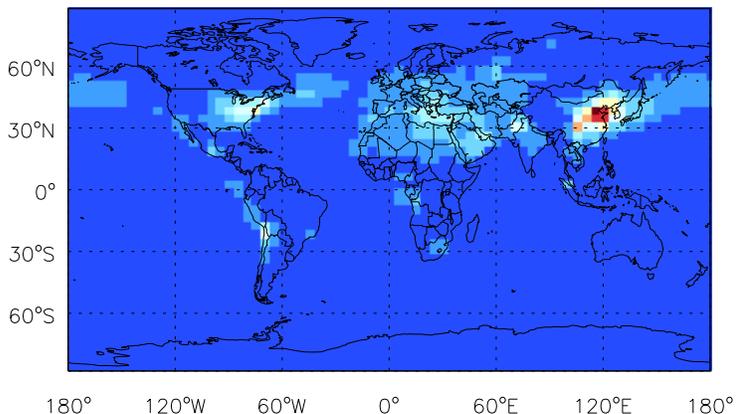
0.0009 7.5018 15.0027 22.5036 ppbv

Tracer Map @ 500 hPa - SO2



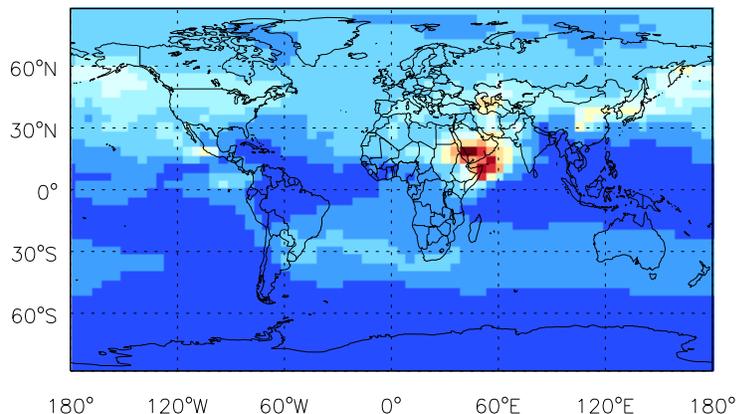
0.0005 0.2533 0.5061 0.7589 ppbv

Tracer Map @ Surface - SO4



0.0029 1.3905 2.7780 4.1656 ppbv

Tracer Map @ 500 hPa - SO4

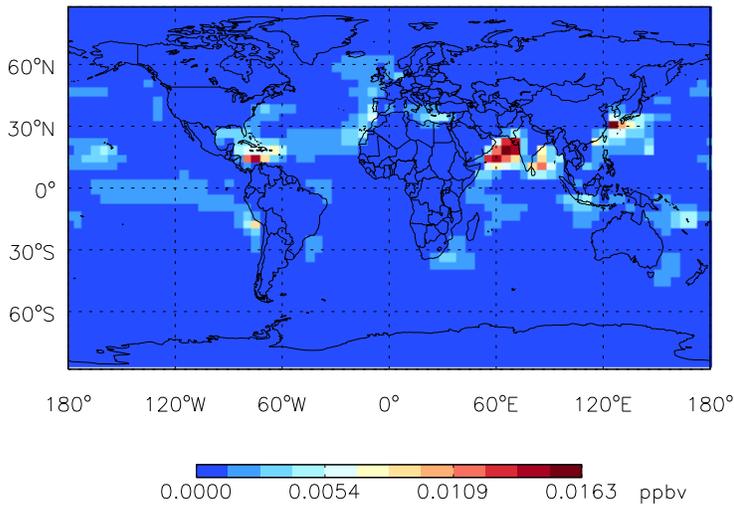


0.0046 0.1087 0.2128 0.3169 ppbv

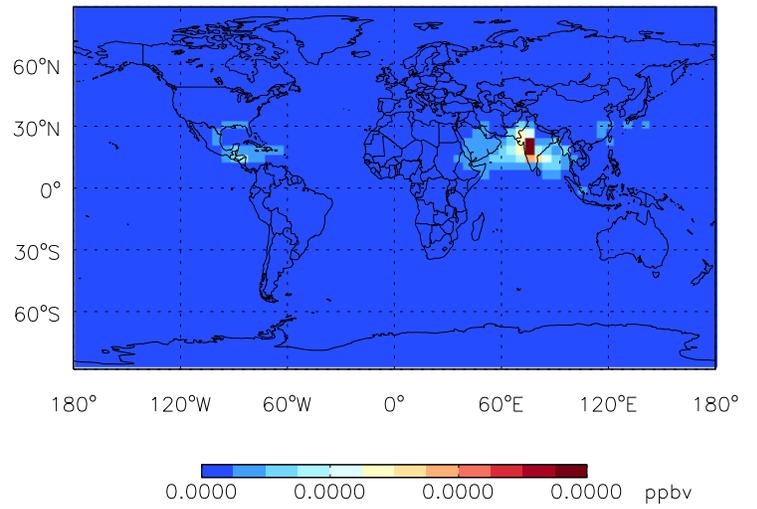
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n

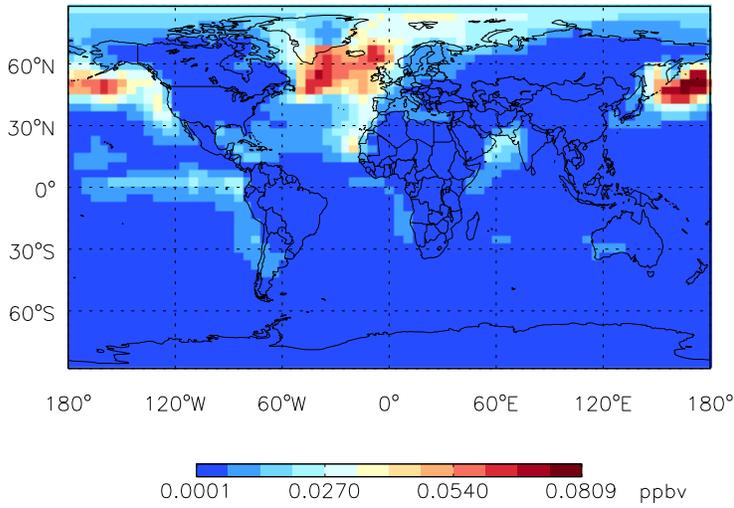
Tracer Map @ Surface - SO4s



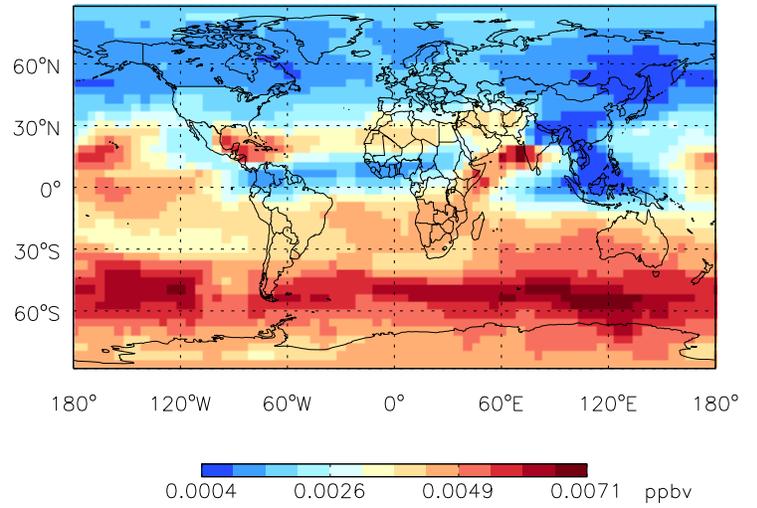
Tracer Map @ 500 hPa - SO4s



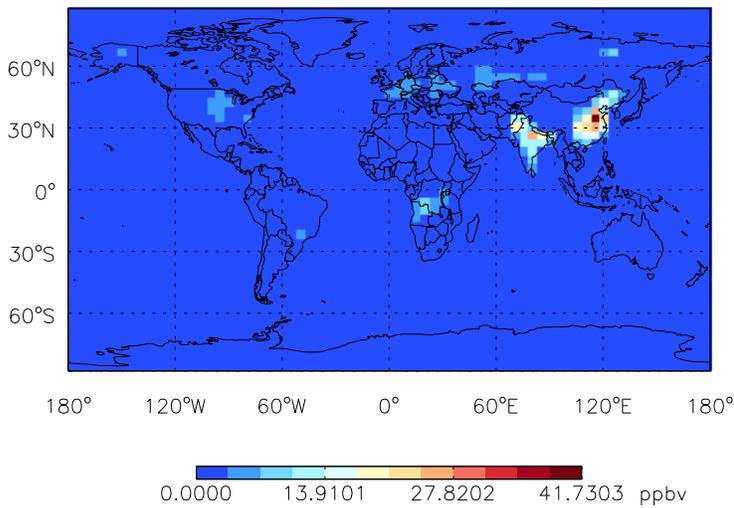
Tracer Map @ Surface - MSA



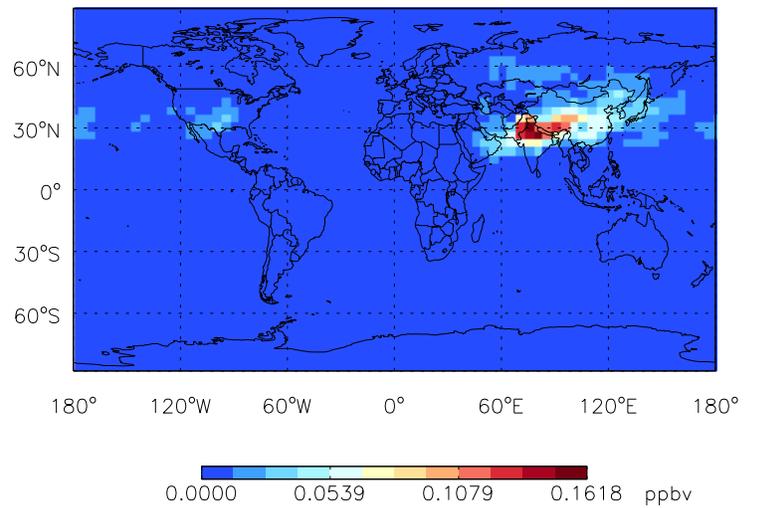
Tracer Map @ 500 hPa - MSA



Tracer Map @ Surface - NH3



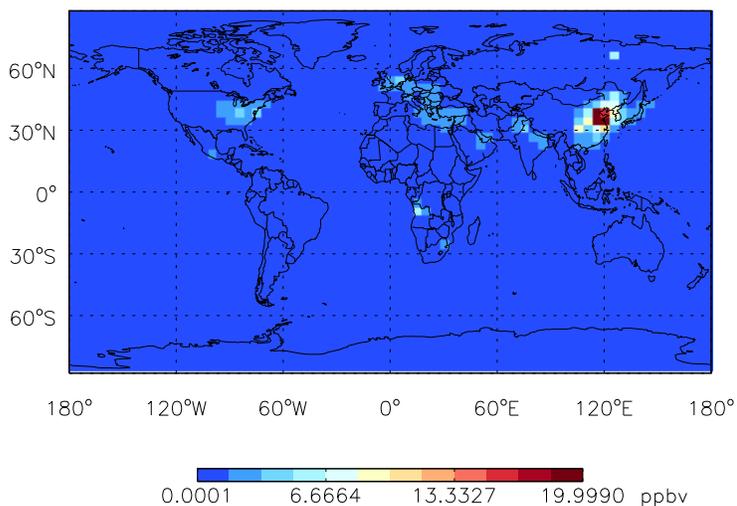
Tracer Map @ 500 hPa - NH3



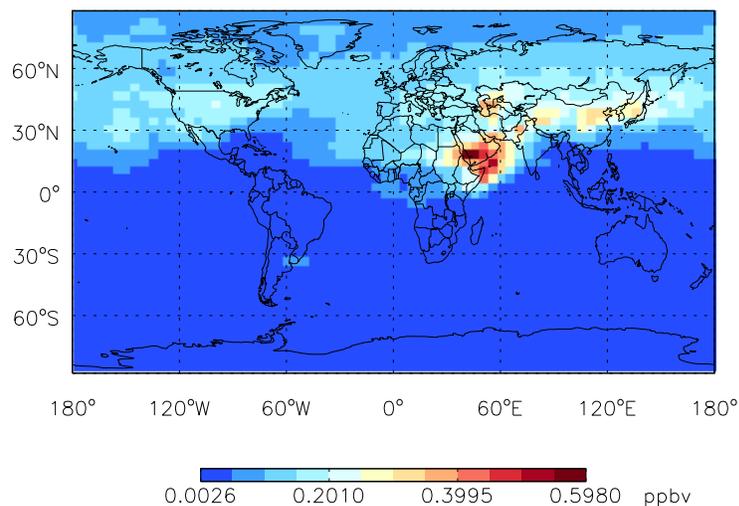
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n

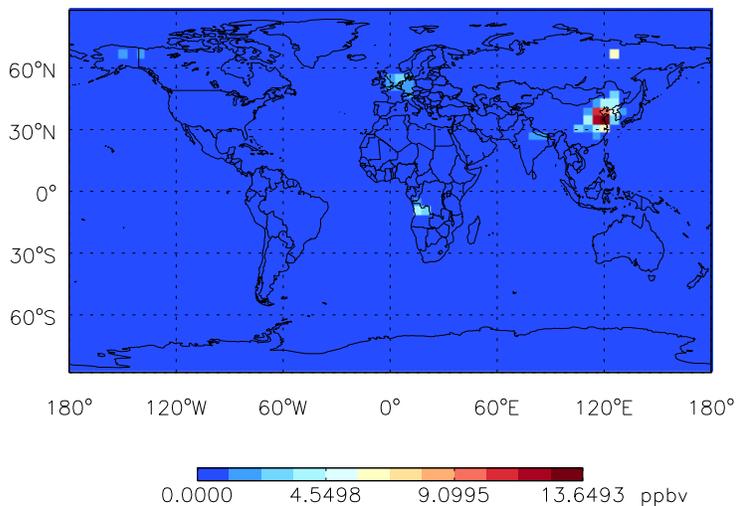
Tracer Map @ Surface - NH4



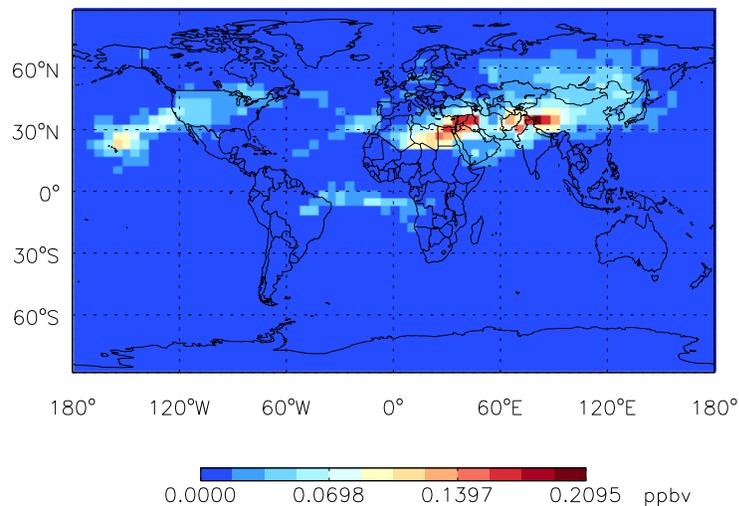
Tracer Map @ 500 hPa - NH4



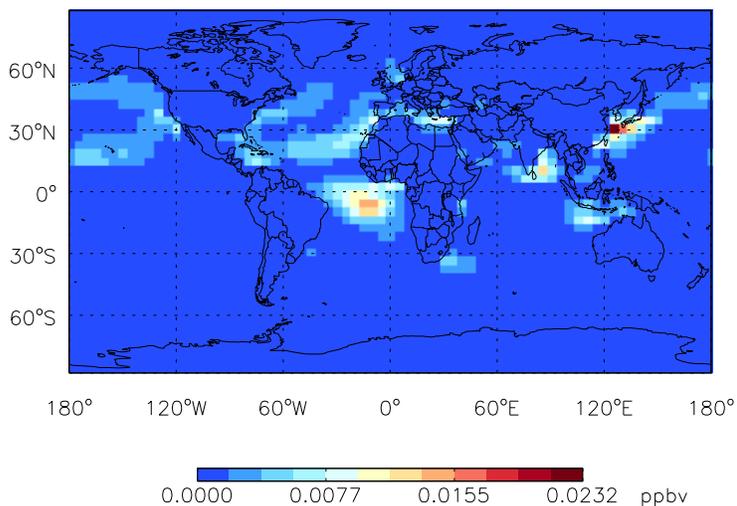
Tracer Map @ Surface - NIT



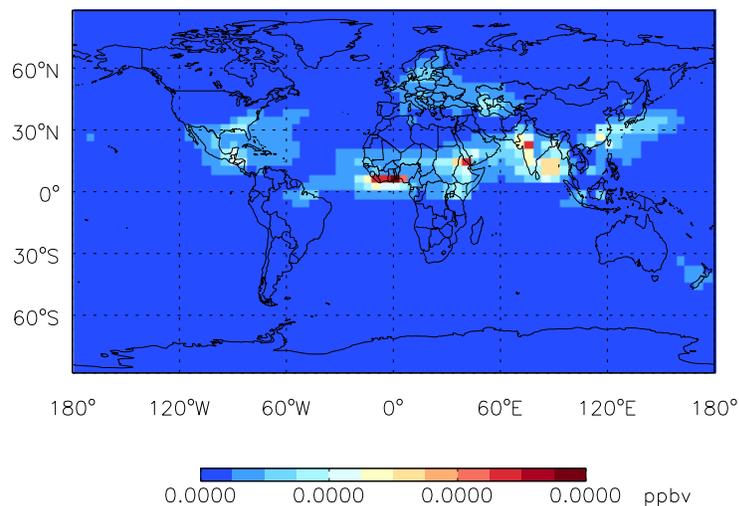
Tracer Map @ 500 hPa - NIT



Tracer Map @ Surface - NITs



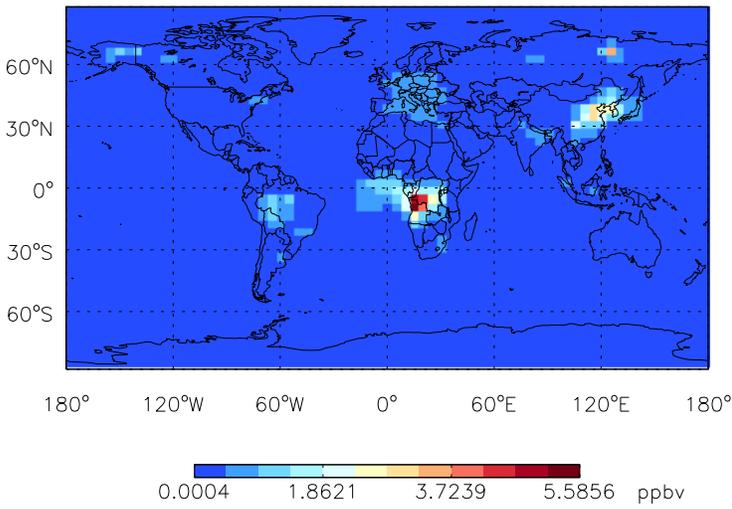
Tracer Map @ 500 hPa - NITs



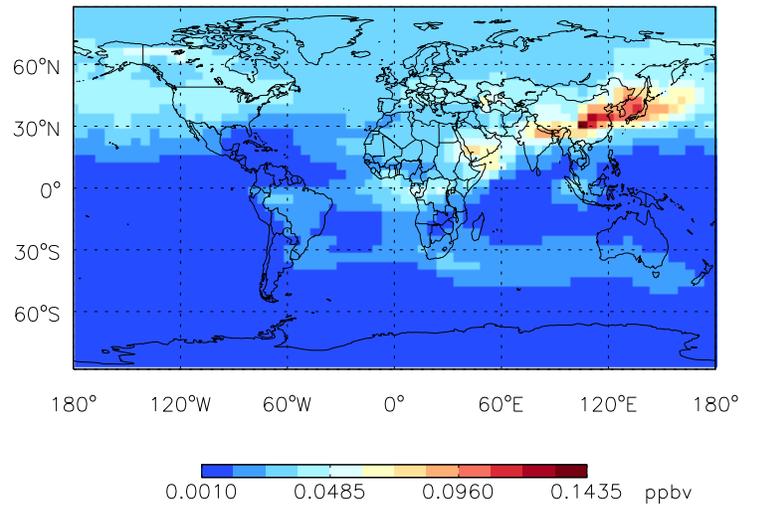
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

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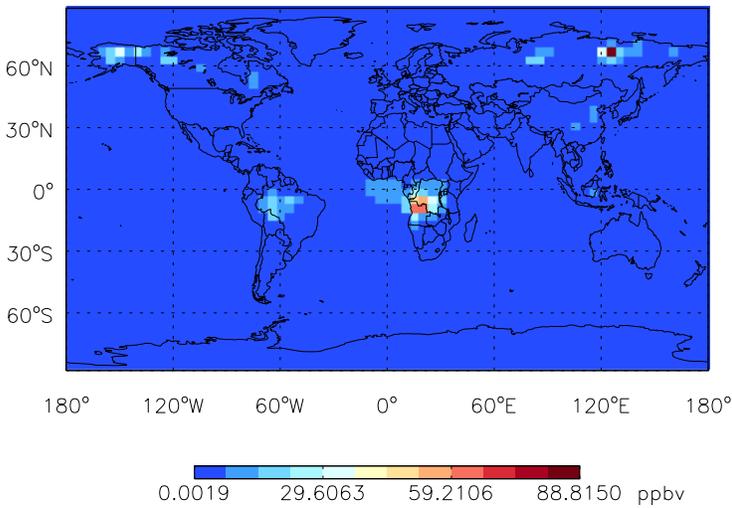
Tracer Map @ Surface – BCPI



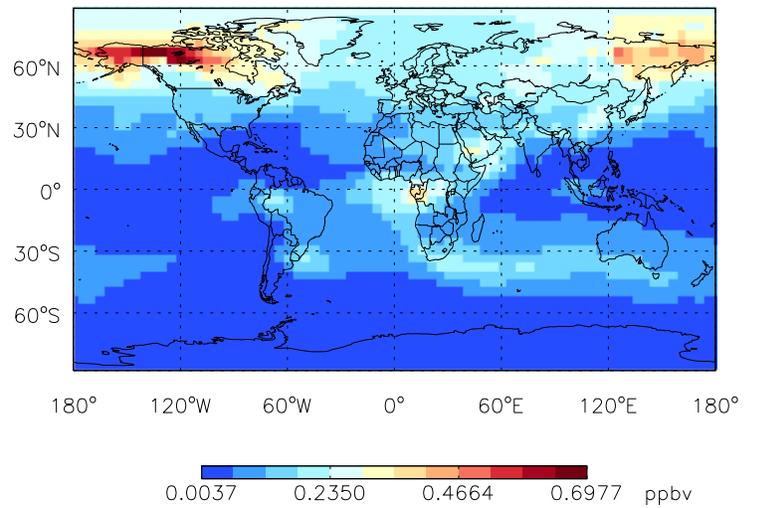
Tracer Map @ 500 hPa – BCPI



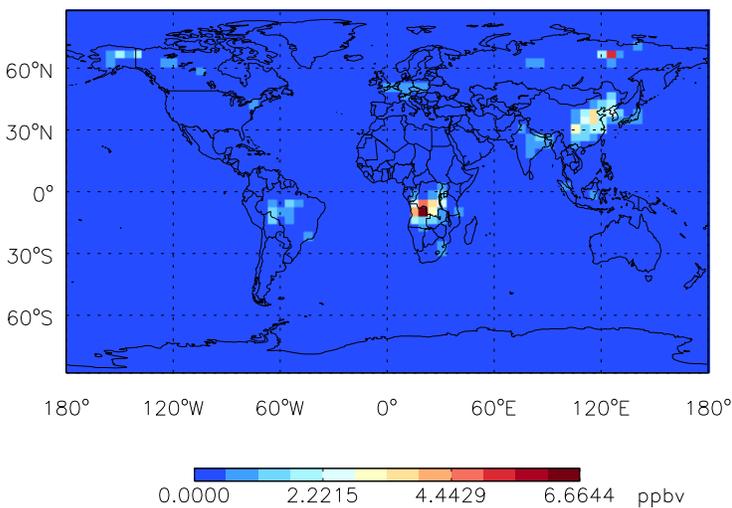
Tracer Map @ Surface – OCPI



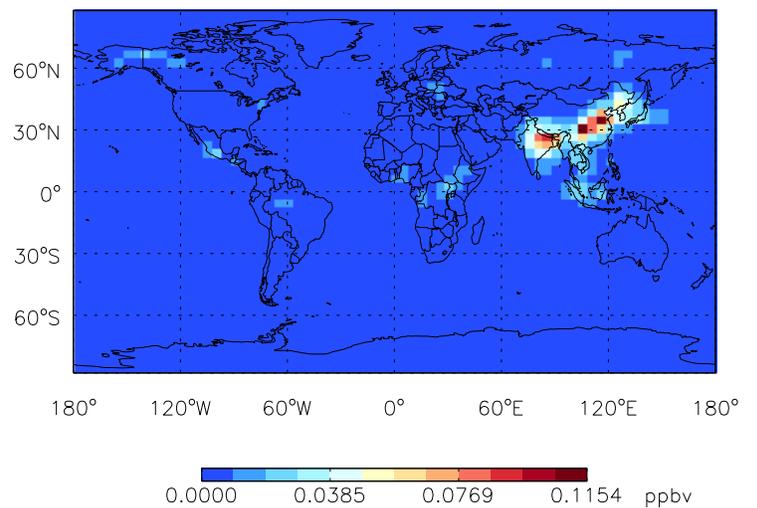
Tracer Map @ 500 hPa – OCPI



Tracer Map @ Surface – BCPO



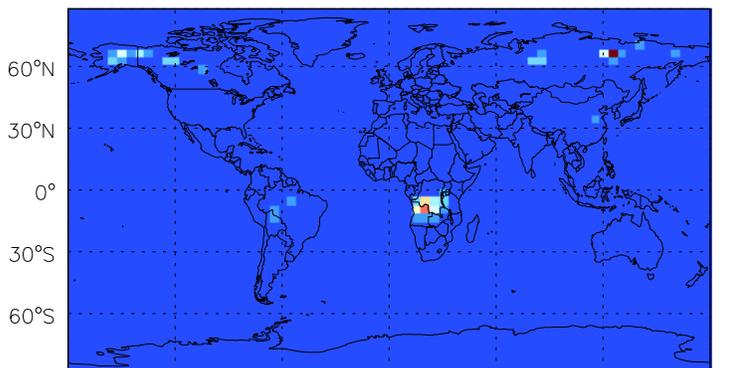
Tracer Map @ 500 hPa – BCPO



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

ctm.bpch.v9-02n

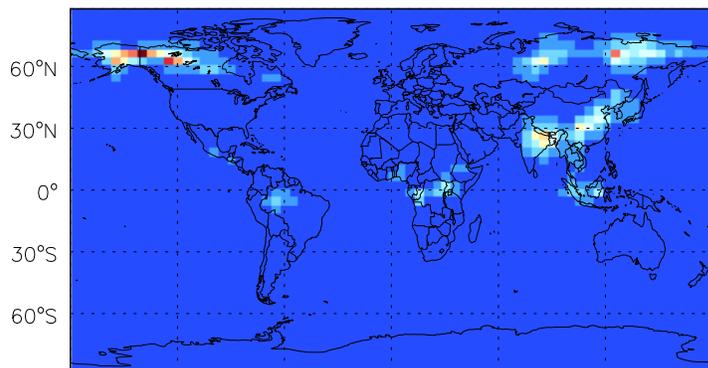
Tracer Map @ Surface – OCPO



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 17.8547 35.7094 53.5641 ppbv

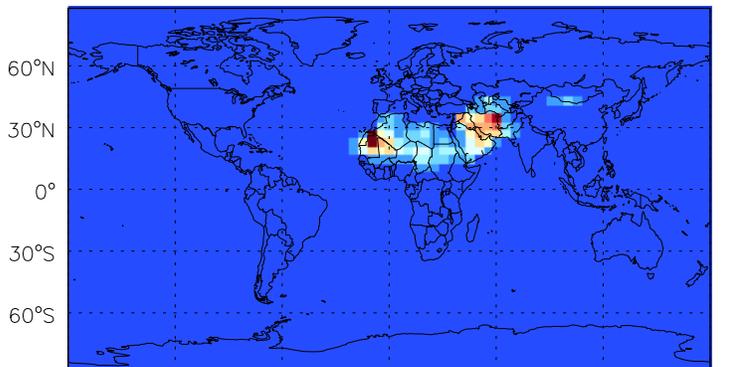
Tracer Map @ 500 hPa – OCPO



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.1087 0.2174 0.3261 ppbv

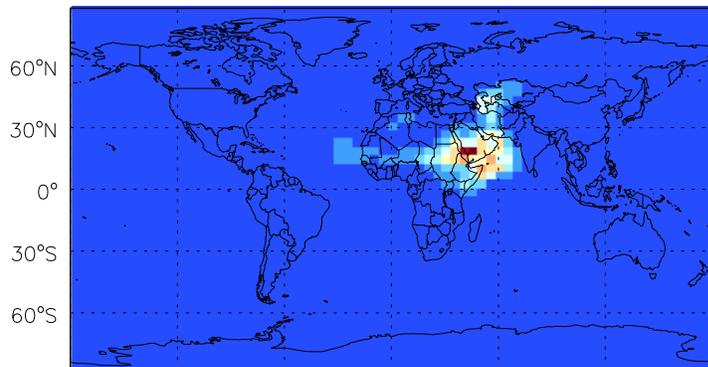
Tracer Map @ Surface – DST1



180° 120°W 60°W 0° 60°E 120°E 180°

0.0001 25.8568 51.7134 77.5701 ppbv

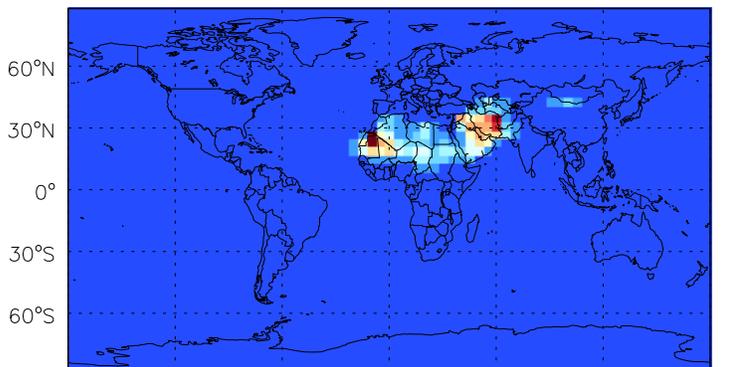
Tracer Map @ 500 hPa – DST1



180° 120°W 60°W 0° 60°E 120°E 180°

0.0003 3.3514 6.7026 10.0537 ppbv

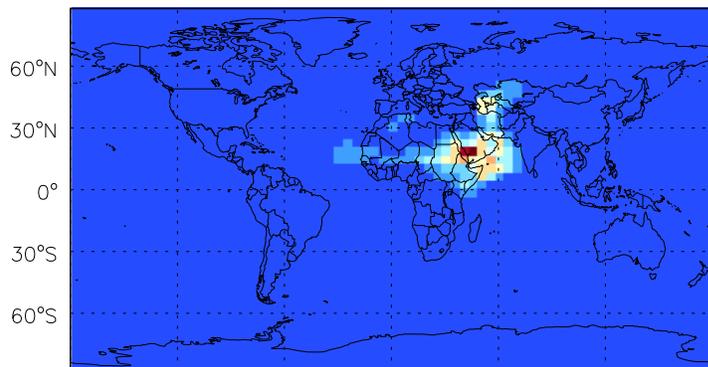
Tracer Map @ Surface – DST2



180° 120°W 60°W 0° 60°E 120°E 180°

0.0002 52.6361 105.2720 157.9080 ppbv

Tracer Map @ 500 hPa – DST2



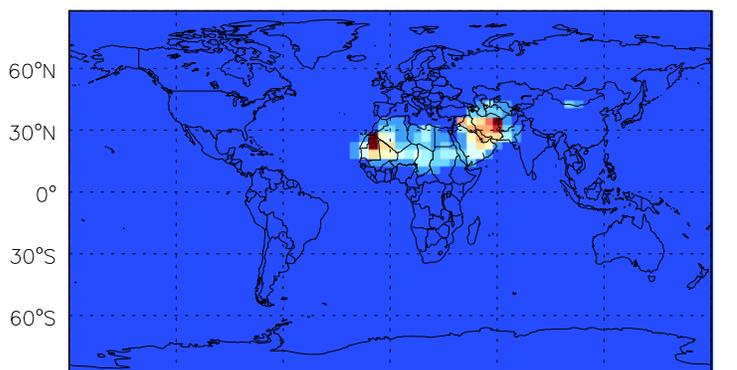
180° 120°W 60°W 0° 60°E 120°E 180°

0.0004 5.6374 11.2743 16.9113 ppbv

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

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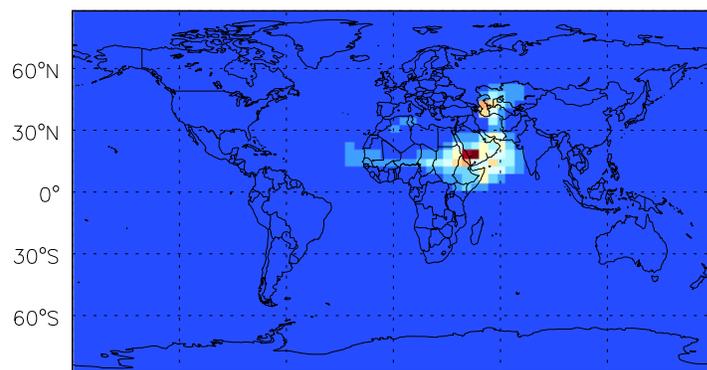
Tracer Map @ Surface - DST3



180° 120°W 60°W 0° 60°E 120°E 180°

0.0001 60.9358 121.8715 182.8072 ppbv

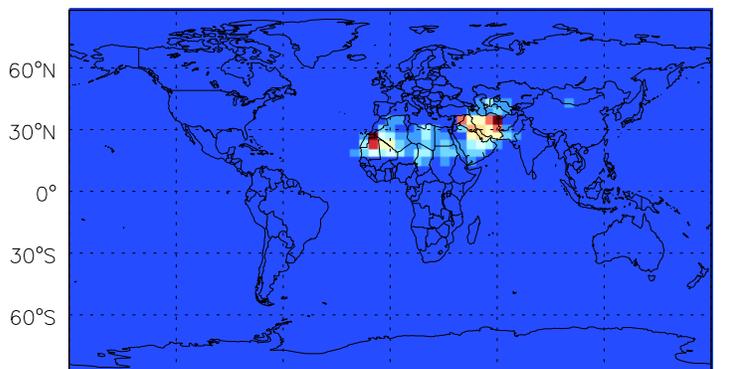
Tracer Map @ 500 hPa - DST3



180° 120°W 60°W 0° 60°E 120°E 180°

0.0002 3.9700 7.9399 11.9097 ppbv

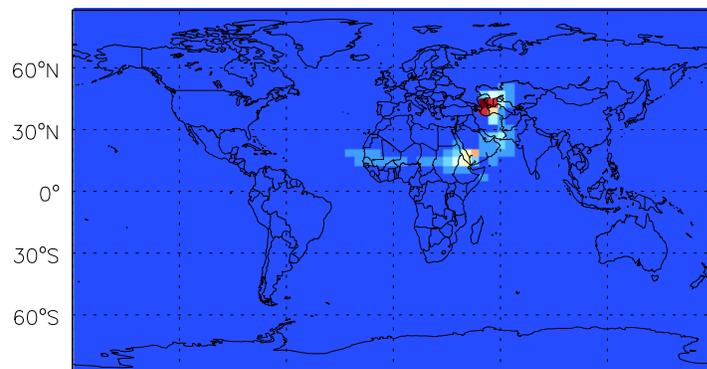
Tracer Map @ Surface - DST4



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 43.2294 86.4588 129.6882 ppbv

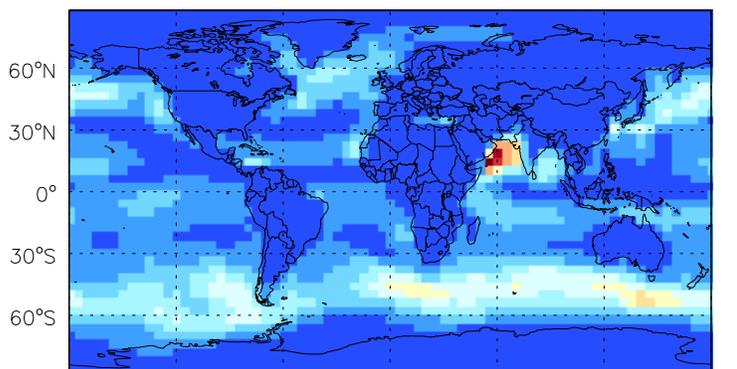
Tracer Map @ 500 hPa - DST4



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.5251 1.0503 1.5754 ppbv

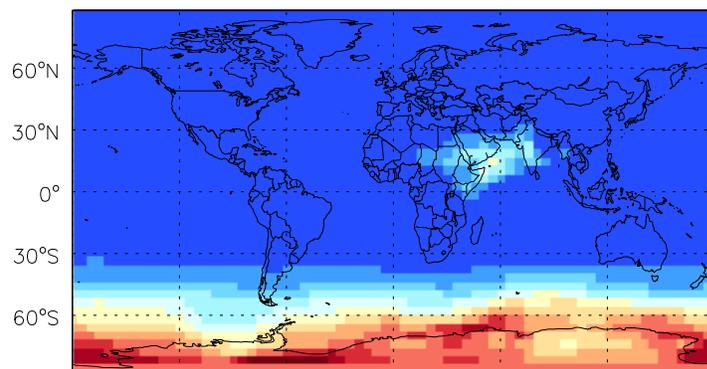
Tracer Map @ Surface - SALA



180° 120°W 60°W 0° 60°E 120°E 180°

0.0002 0.8178 1.6355 2.4532 ppbv

Tracer Map @ 500 hPa - SALA



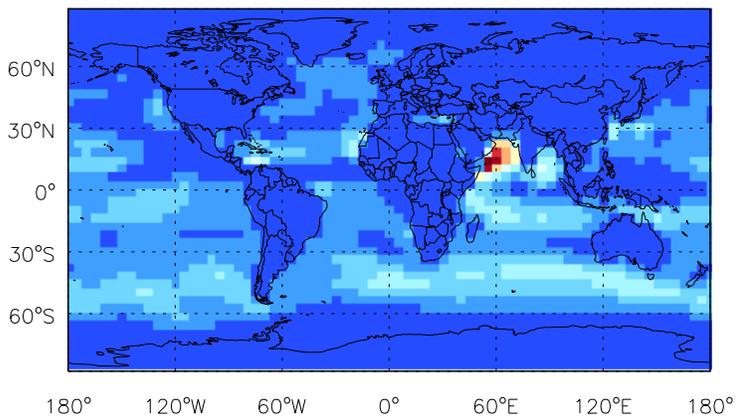
180° 120°W 60°W 0° 60°E 120°E 180°

0.0001 0.0118 0.0234 0.0350 ppbv

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

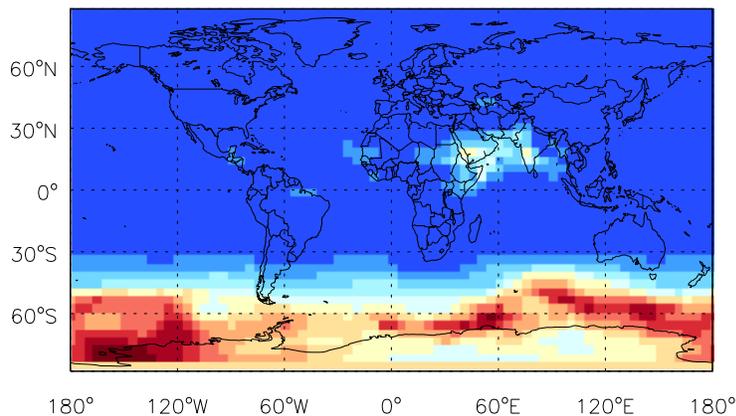
ctm.bpch.v9-02n

Tracer Map @ Surface - SALC



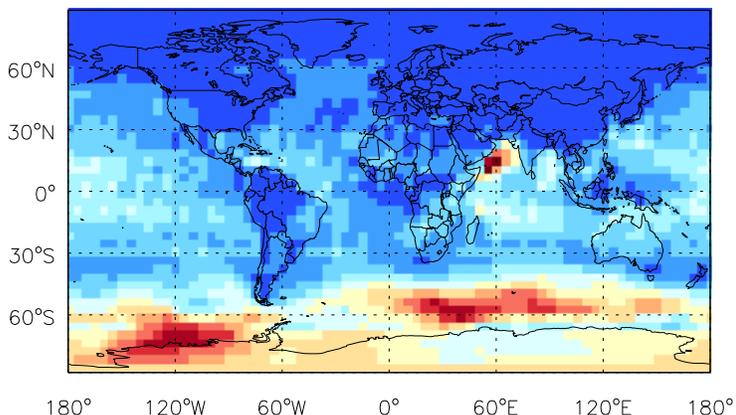
0.0003 21.8082 43.6160 65.4239 ppbv

Tracer Map @ 500 hPa - SALC



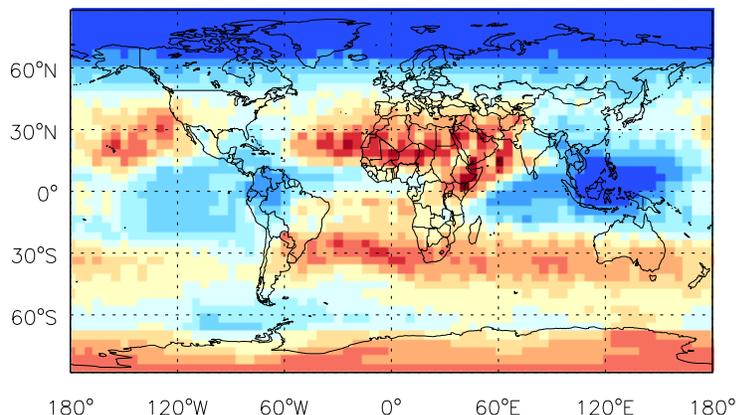
0.0011 0.0766 0.1520 0.2275 ppbv

Tracer Map @ Surface - Br2



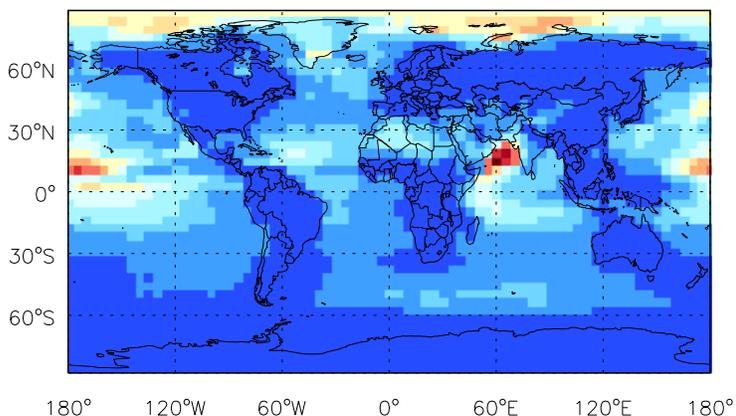
0.0000 0.0004 0.0008 0.0011 ppbv

Tracer Map @ 500 hPa - Br2



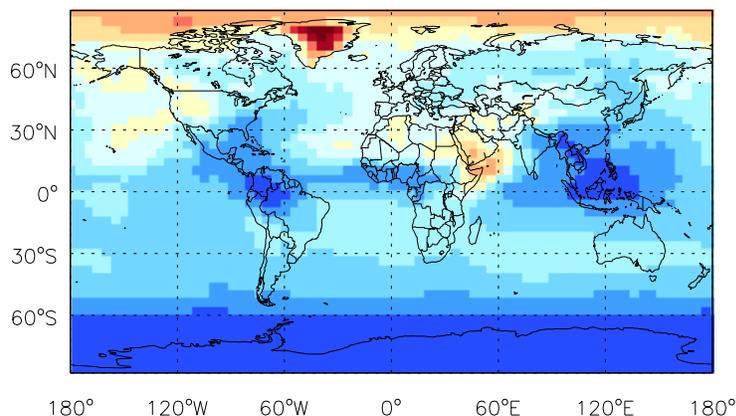
0.0000 0.0002 0.0003 0.0005 ppbv

Tracer Map @ Surface - Br



0.0000 0.0000 0.0000 0.0000 ppbv

Tracer Map @ 500 hPa - Br

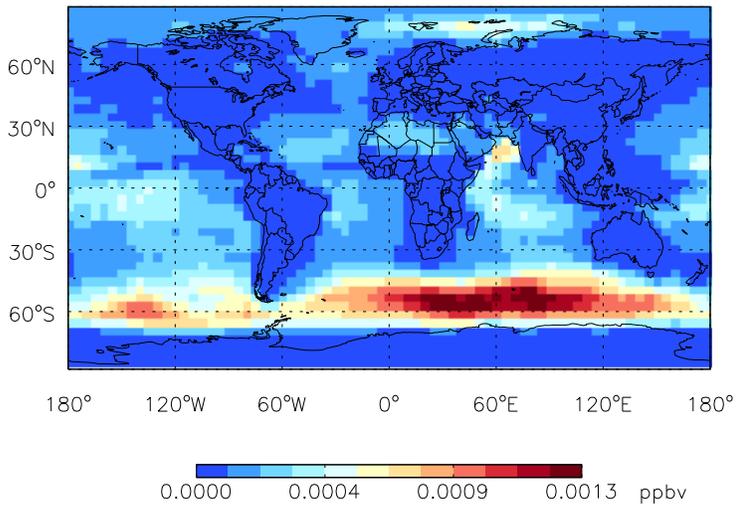


0.0000 0.0000 0.0000 0.0001 ppbv

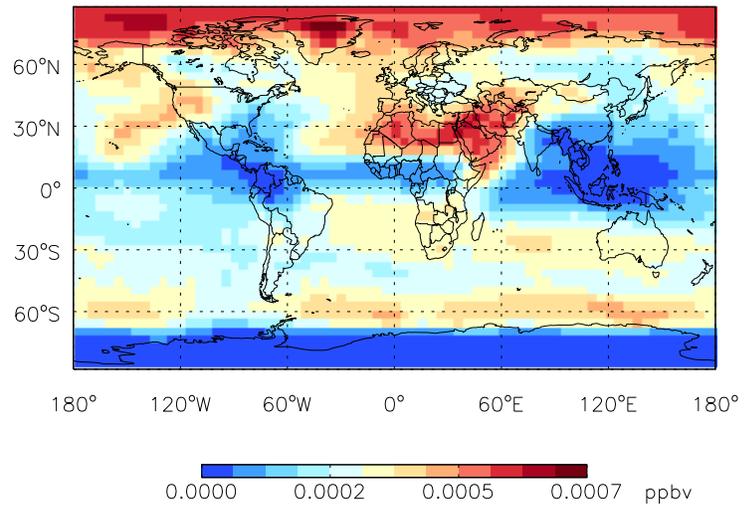
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

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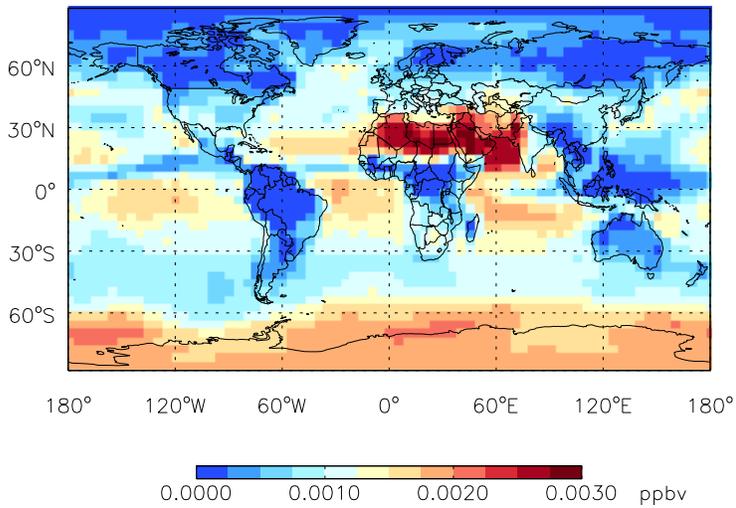
Tracer Map @ Surface - BrO



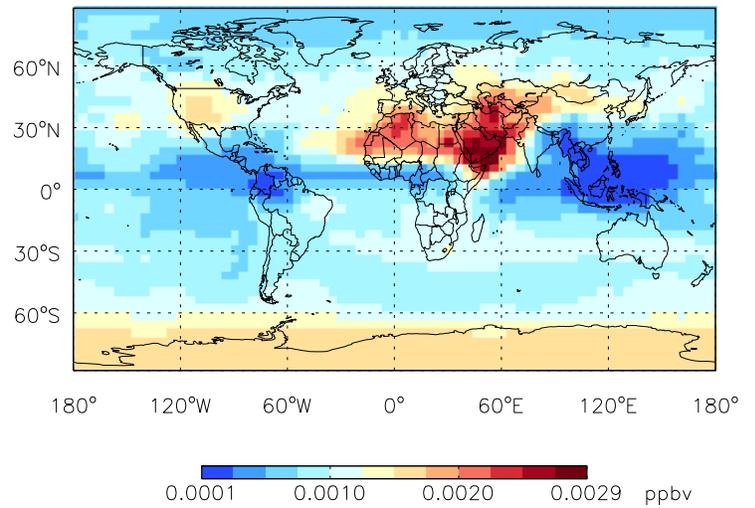
Tracer Map @ 500 hPa - BrO



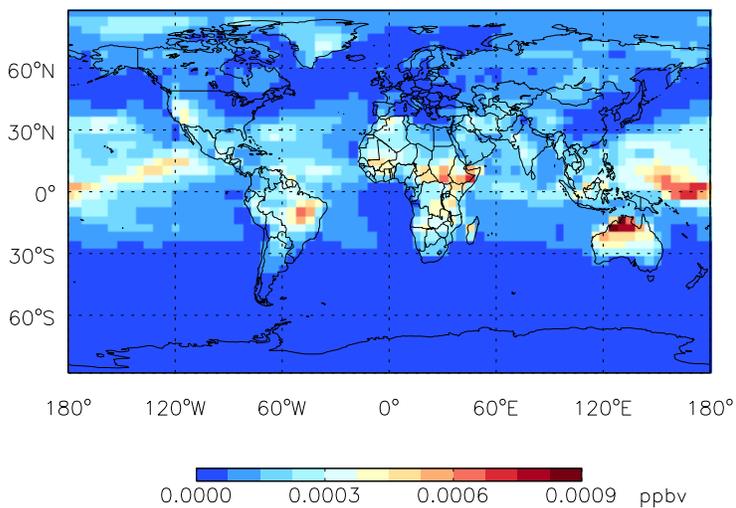
Tracer Map @ Surface - HOBr



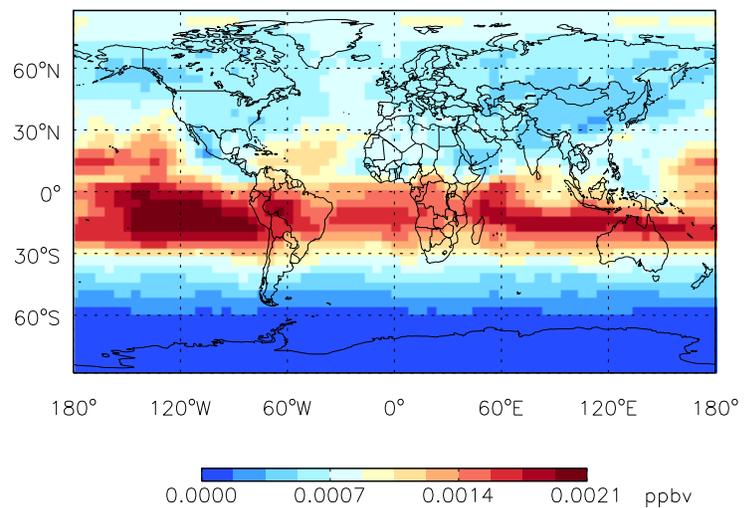
Tracer Map @ 500 hPa - HOBr



Tracer Map @ Surface - HBr



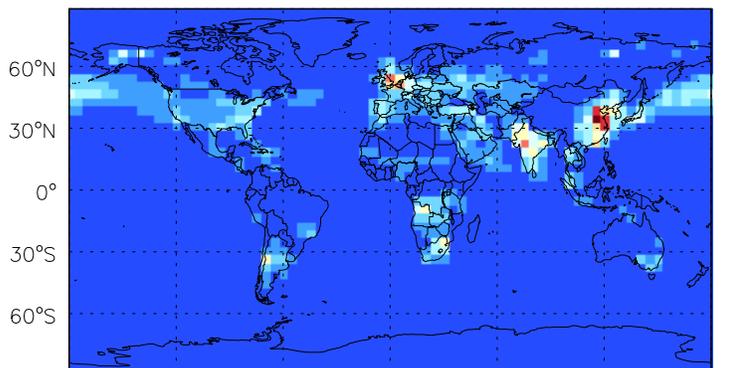
Tracer Map @ 500 hPa - HBr



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

ctm.bpch.v9-02n

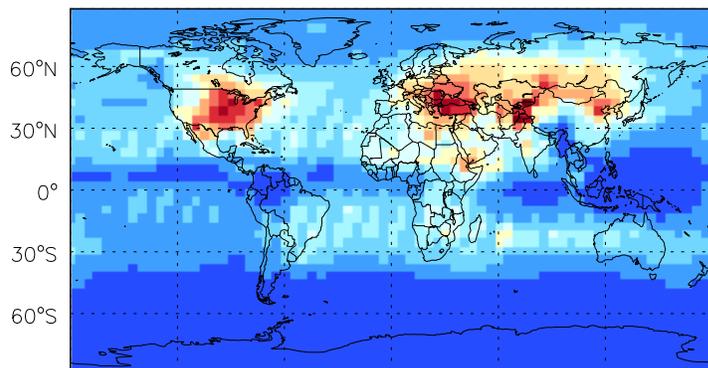
Tracer Map @ Surface - BrNO2



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0001 0.0002 0.0003 ppbv

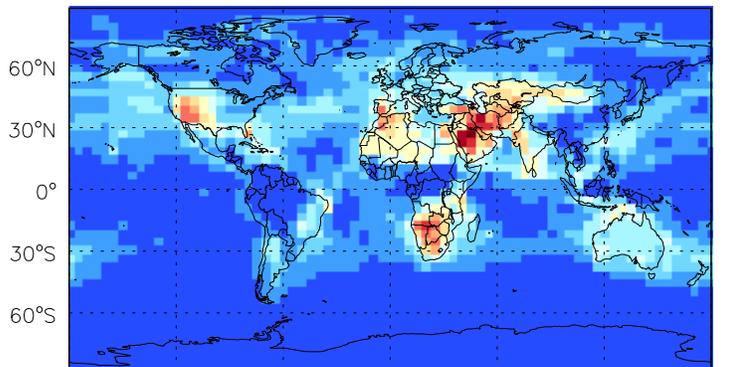
Tracer Map @ 500 hPa - BrNO2



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0000 0.0000 0.0000 ppbv

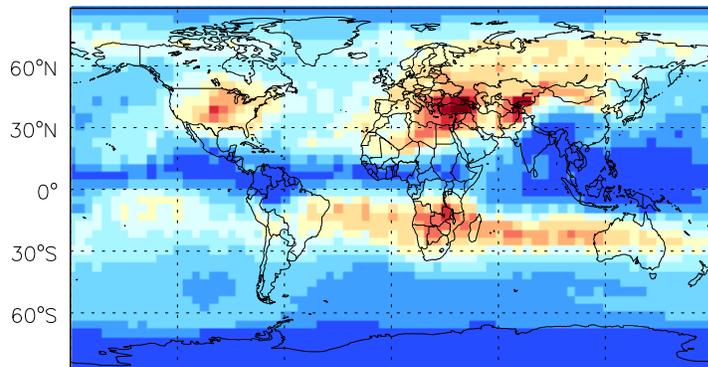
Tracer Map @ Surface - BrNO3



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0002 0.0004 0.0005 ppbv

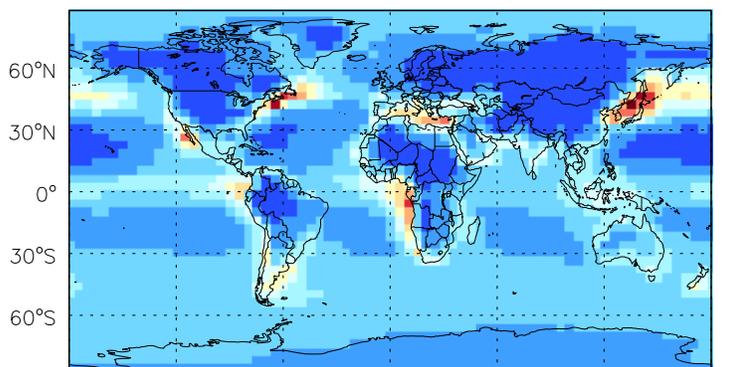
Tracer Map @ 500 hPa - BrNO3



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0003 0.0006 0.0009 ppbv

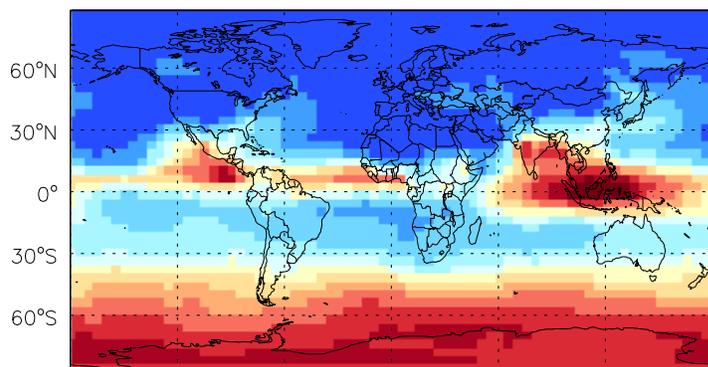
Tracer Map @ Surface - CHBr3



180° 120°W 60°W 0° 60°E 120°E 180°

0.0002 0.0024 0.0046 0.0068 ppbv

Tracer Map @ 500 hPa - CHBr3



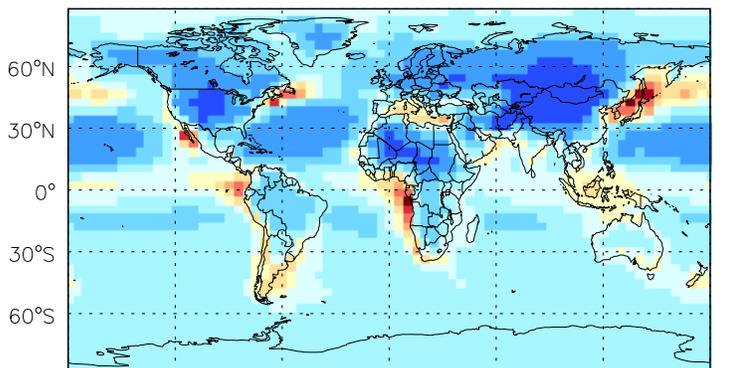
180° 120°W 60°W 0° 60°E 120°E 180°

0.0002 0.0006 0.0010 0.0013 ppbv

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

ctm.bpch.v9-02n

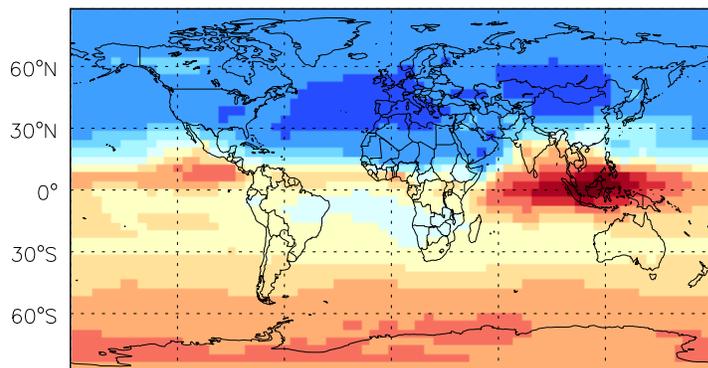
Tracer Map @ Surface - CH₂Br₂



180° 120°W 60°W 0° 60°E 120°E 180°

0.0006 0.0010 0.0015 0.0020 ppbv

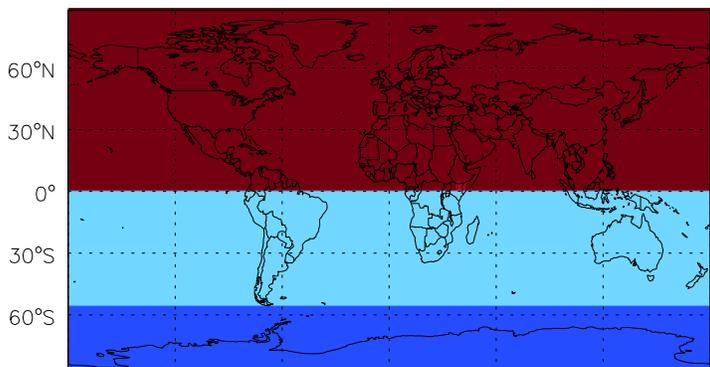
Tracer Map @ 500 hPa - CH₂Br₂



180° 120°W 60°W 0° 60°E 120°E 180°

0.0006 0.0008 0.0009 0.0011 ppbv

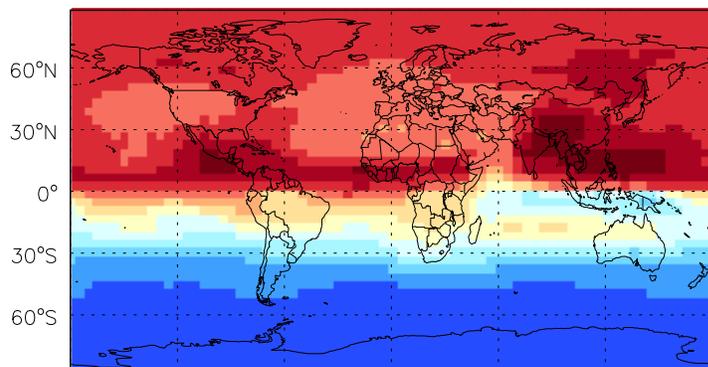
Tracer Map @ Surface - CH₃Br



180° 120°W 60°W 0° 60°E 120°E 180°

0.0065 0.0071 0.0077 0.0083 ppbv

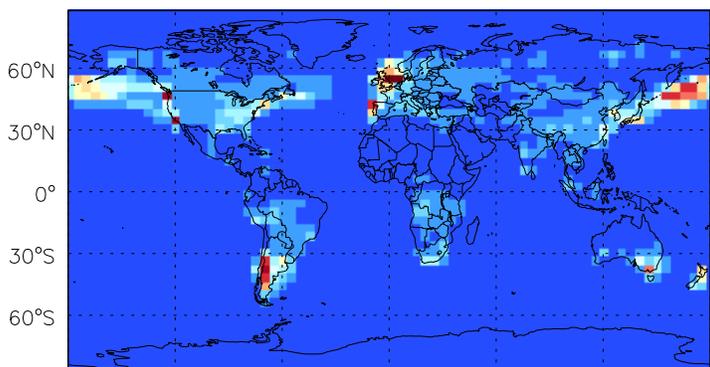
Tracer Map @ 500 hPa - CH₃Br



180° 120°W 60°W 0° 60°E 120°E 180°

0.0069 0.0073 0.0077 0.0081 ppbv

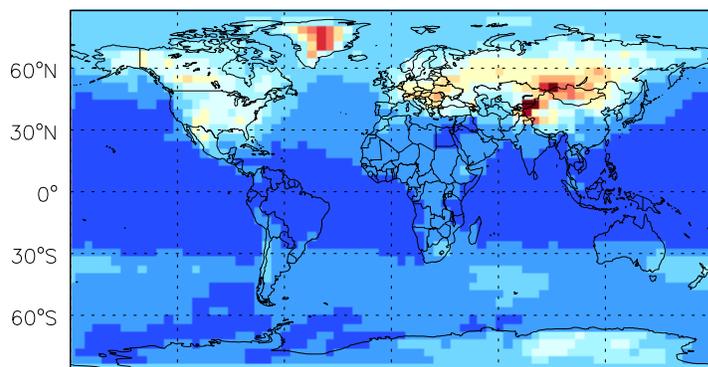
Tracer Map @ Surface - MPN



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0006 0.0012 0.0017 ppbv

Tracer Map @ 500 hPa - MPN



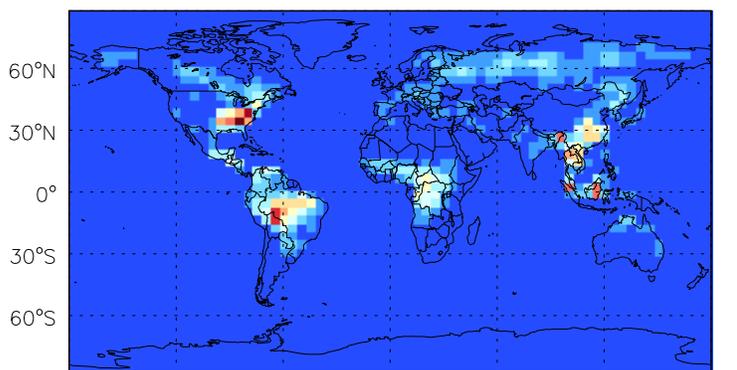
180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0011 0.0021 0.0031 ppbv

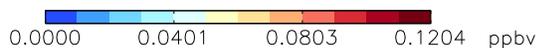
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

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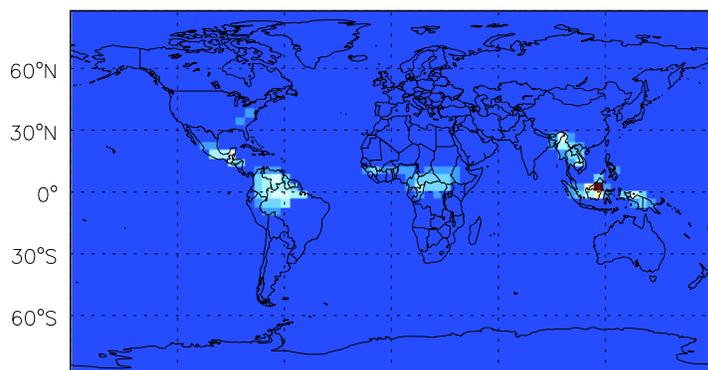
Tracer Map @ Surface – ISOPN



180° 120°W 60°W 0° 60°E 120°E 180°



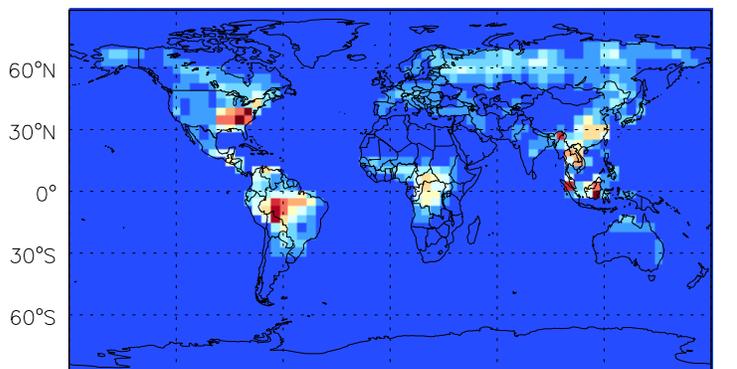
Tracer Map @ 500 hPa – ISOPN



180° 120°W 60°W 0° 60°E 120°E 180°



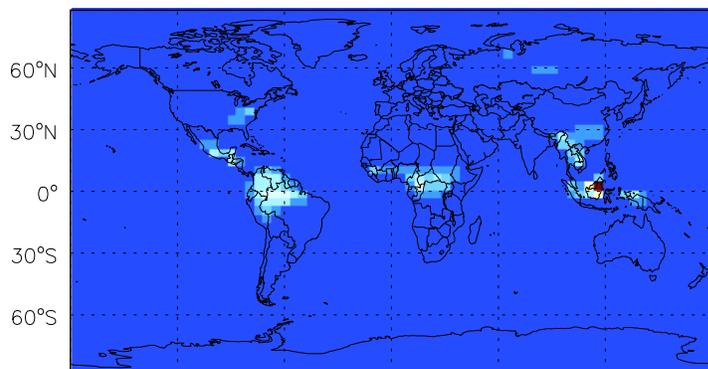
Tracer Map @ Surface – MOBA



180° 120°W 60°W 0° 60°E 120°E 180°



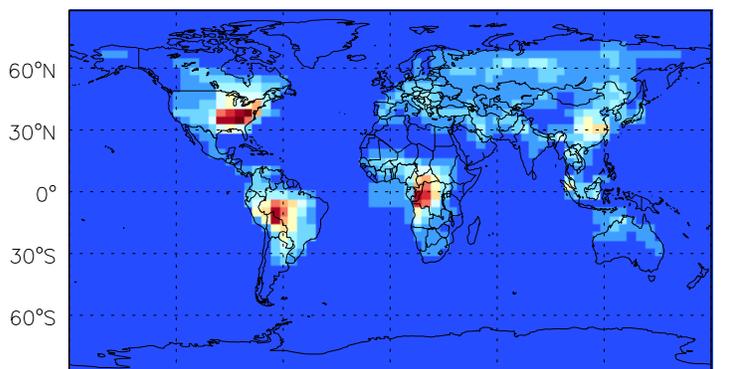
Tracer Map @ 500 hPa – MOBA



180° 120°W 60°W 0° 60°E 120°E 180°



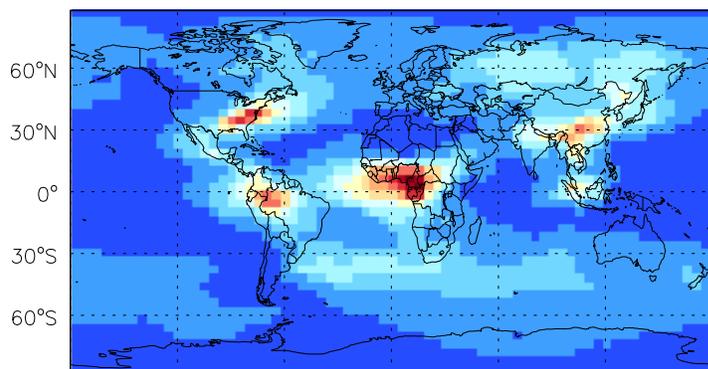
Tracer Map @ Surface – PROPNN



180° 120°W 60°W 0° 60°E 120°E 180°



Tracer Map @ 500 hPa – PROPNN



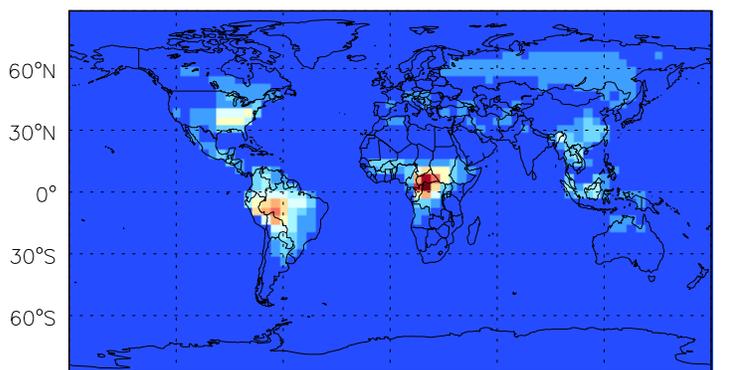
180° 120°W 60°W 0° 60°E 120°E 180°



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

ctm.bpch.v9-02n

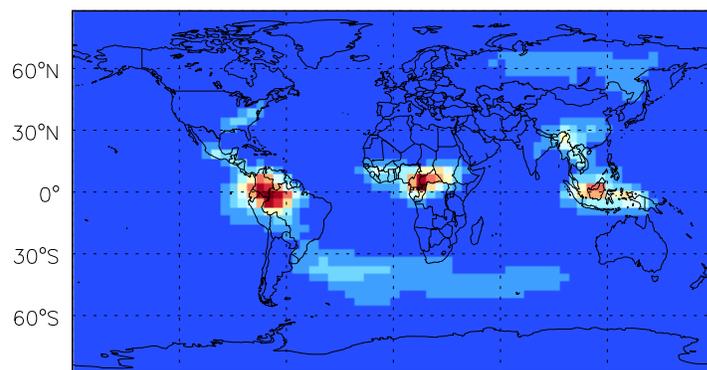
Tracer Map @ Surface - HAC



180° 120°W 60°W 0° 60°E 120°E 180°

0.0004 1.3877 2.7749 4.1621 ppbv

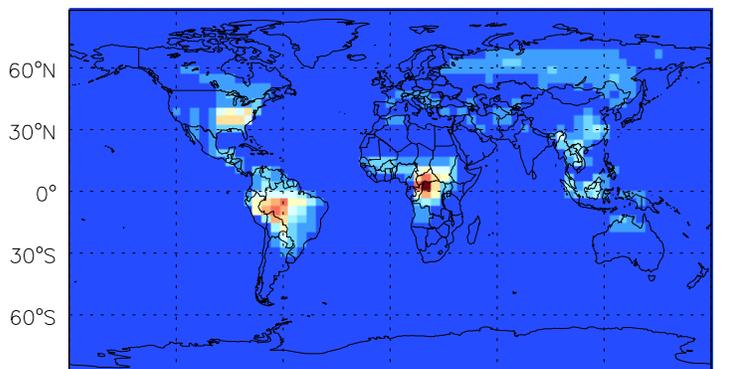
Tracer Map @ 500 hPa - HAC



180° 120°W 60°W 0° 60°E 120°E 180°

0.0005 0.2290 0.4575 0.6861 ppbv

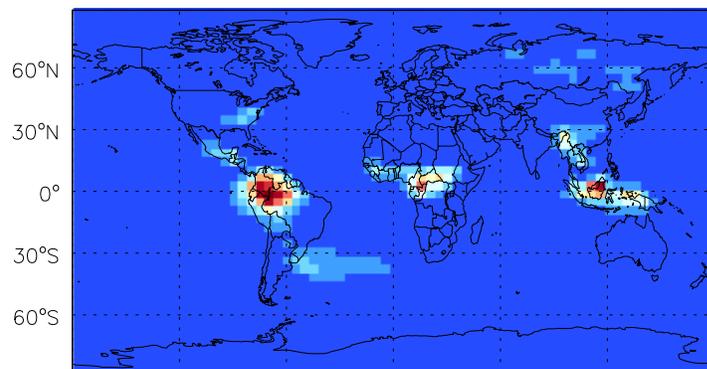
Tracer Map @ Surface - GLYC



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.7544 1.5088 2.2632 ppbv

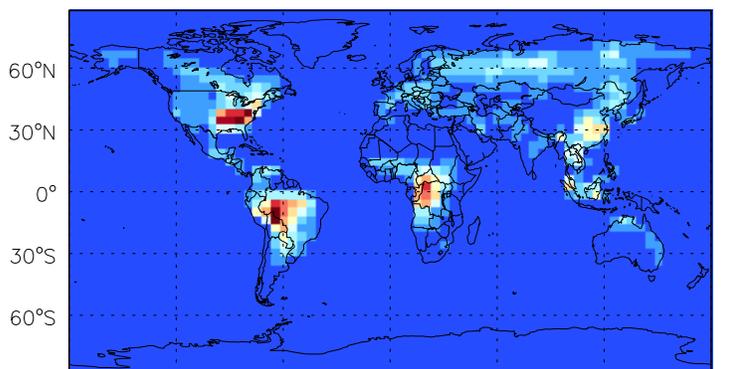
Tracer Map @ 500 hPa - GLYC



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0463 0.0926 0.1388 ppbv

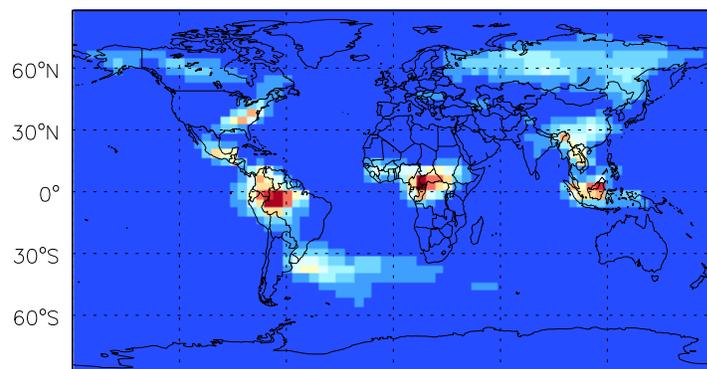
Tracer Map @ Surface - MMN



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0667 0.1334 0.2002 ppbv

Tracer Map @ 500 hPa - MMN



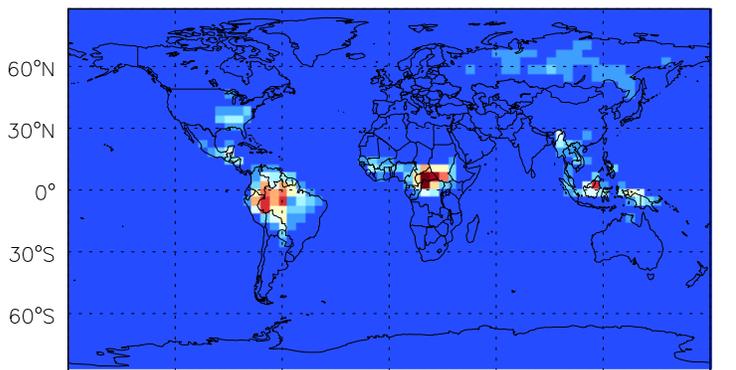
180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0023 0.0045 0.0068 ppbv

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

ctm.bpch.v9-02n

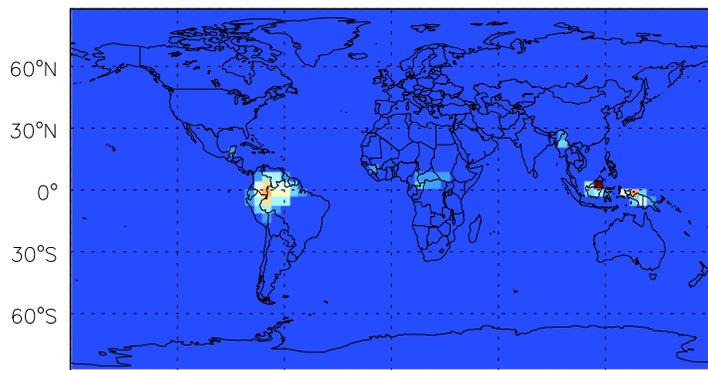
Tracer Map @ Surface – RIP



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.2526 0.5051 0.7577 ppbv

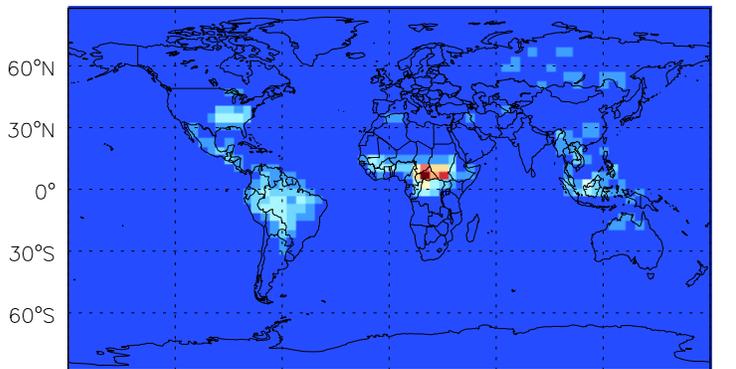
Tracer Map @ 500 hPa – RIP



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0295 0.0591 0.0886 ppbv

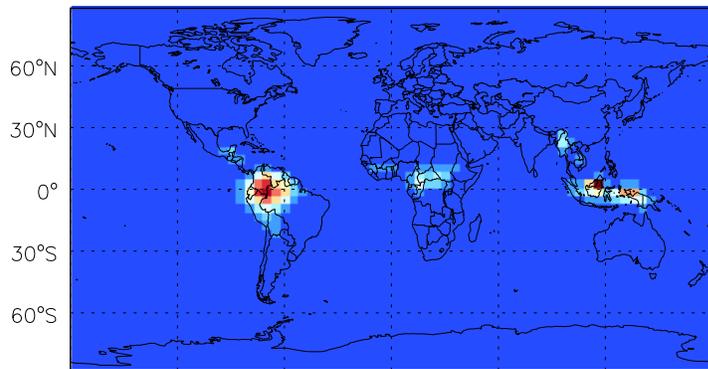
Tracer Map @ Surface – IEPOX



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.3807 0.7614 1.1420 ppbv

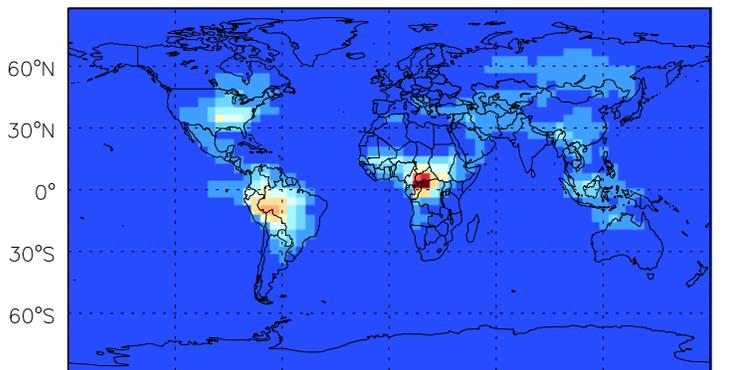
Tracer Map @ 500 hPa – IEPOX



180° 120°W 60°W 0° 60°E 120°E 180°

0.0000 0.0715 0.1430 0.2145 ppbv

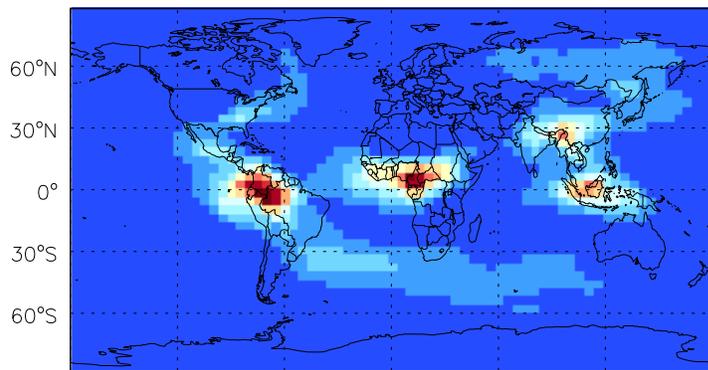
Tracer Map @ Surface – MAP



180° 120°W 60°W 0° 60°E 120°E 180°

0.0019 0.3235 0.6451 0.9667 ppbv

Tracer Map @ 500 hPa – MAP



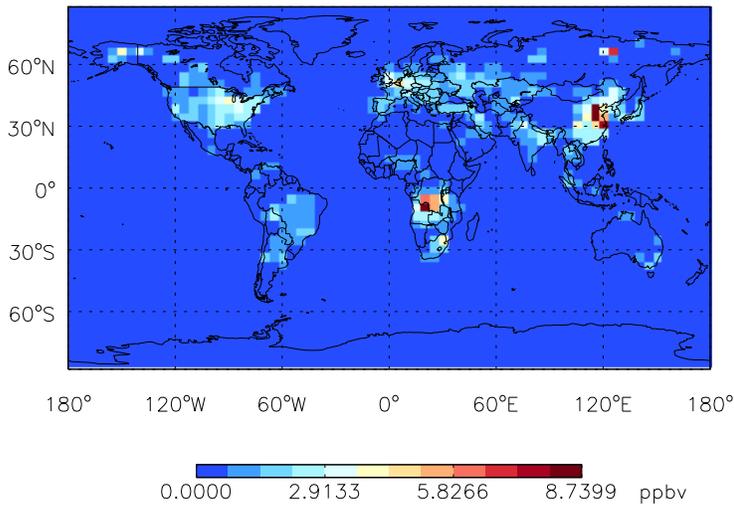
180° 120°W 60°W 0° 60°E 120°E 180°

0.0074 0.0839 0.1604 0.2369 ppbv

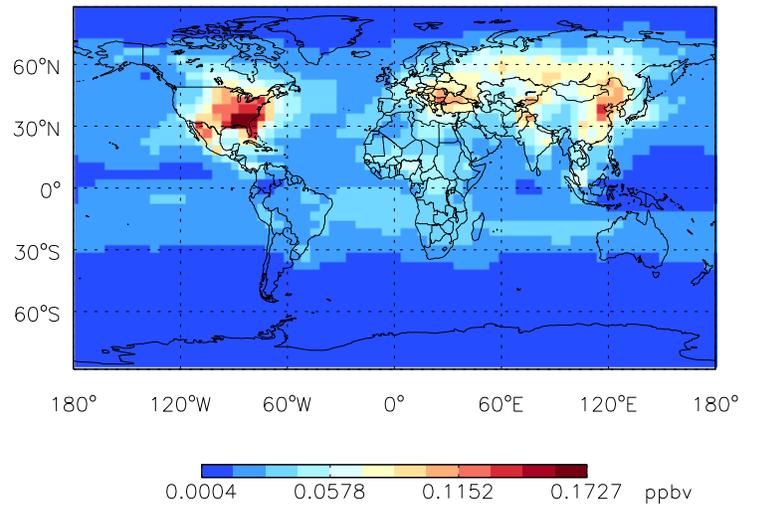
GEOS-Chem v9-02n Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02n

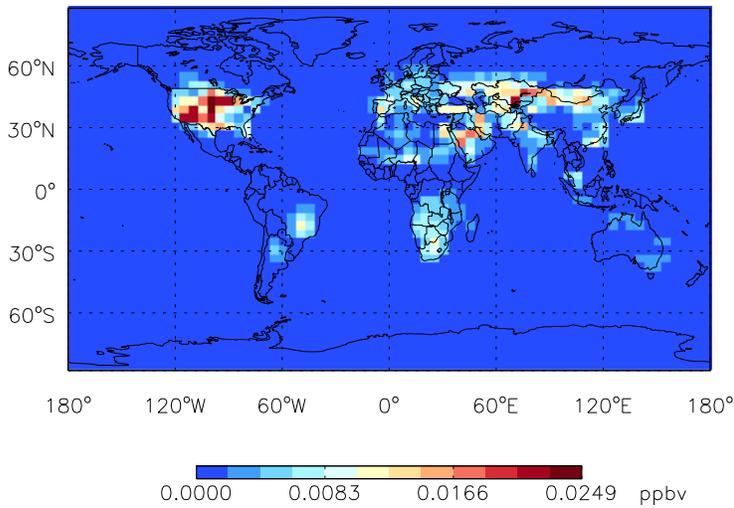
Tracer Map @ Surface - NO2



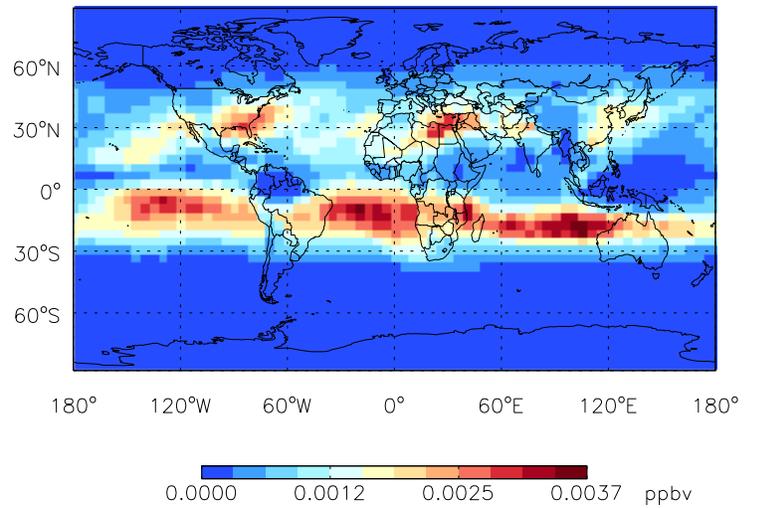
Tracer Map @ 500 hPa - NO2



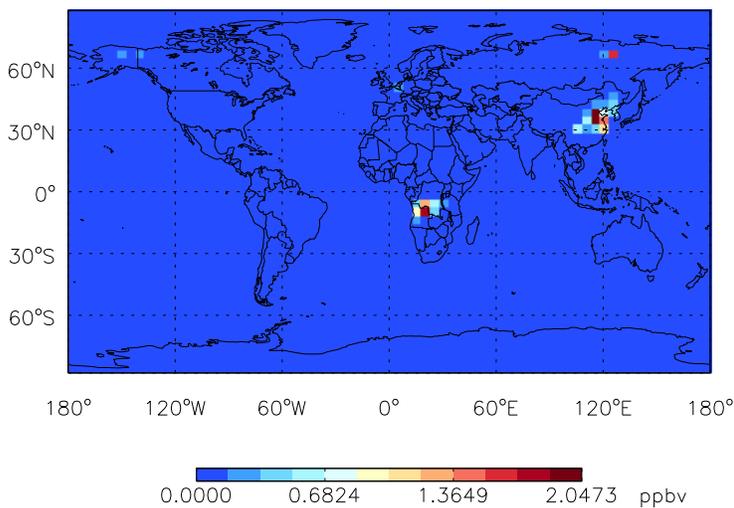
Tracer Map @ Surface - NO3



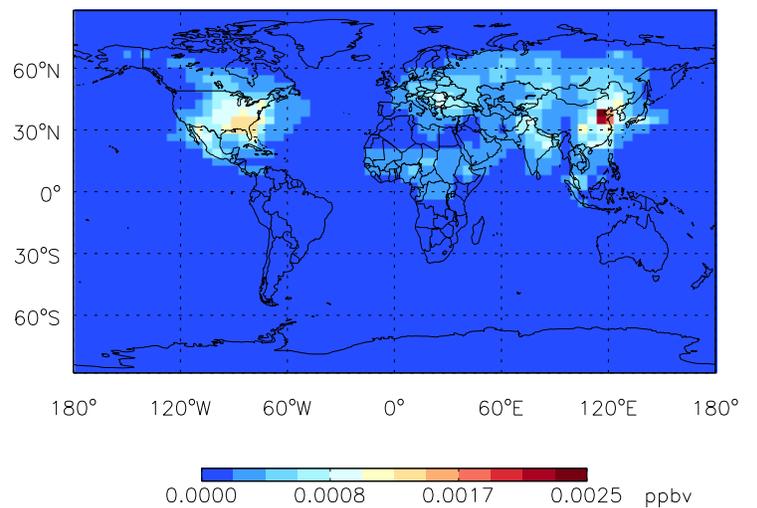
Tracer Map @ 500 hPa - NO3



Tracer Map @ Surface - HNO2



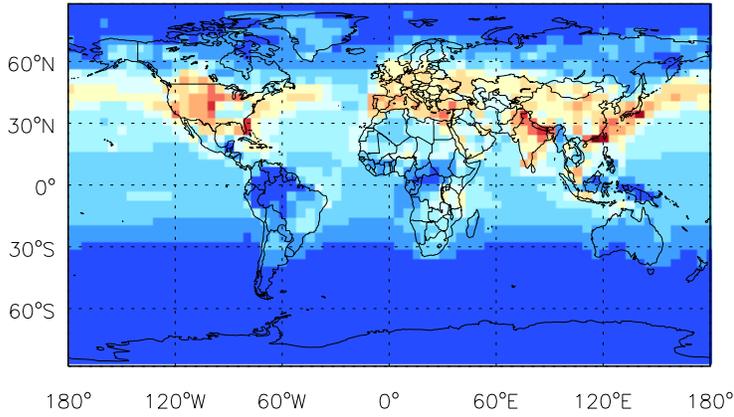
Tracer Map @ 500 hPa - HNO2



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

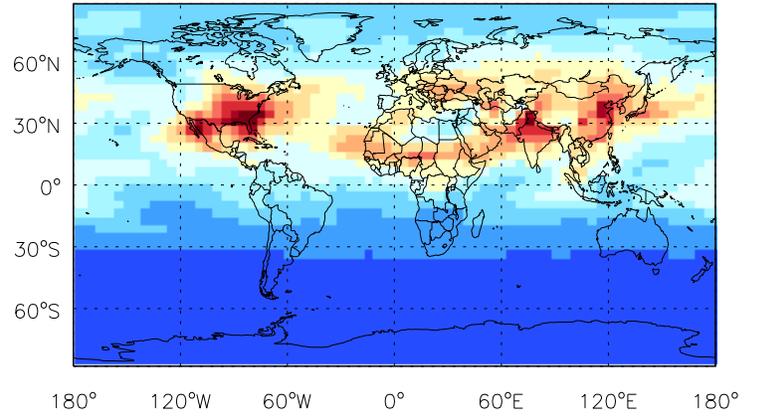
ctm.bpch.v9-02n

Tracer Map @ Surface - OH



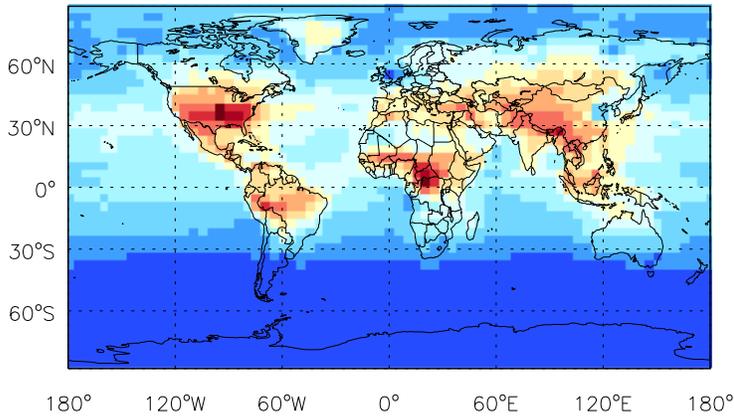
0.0000 20.4694 40.9388 61.4081 1e5 molec/cm3

Tracer Map @ 500 hPa - OH



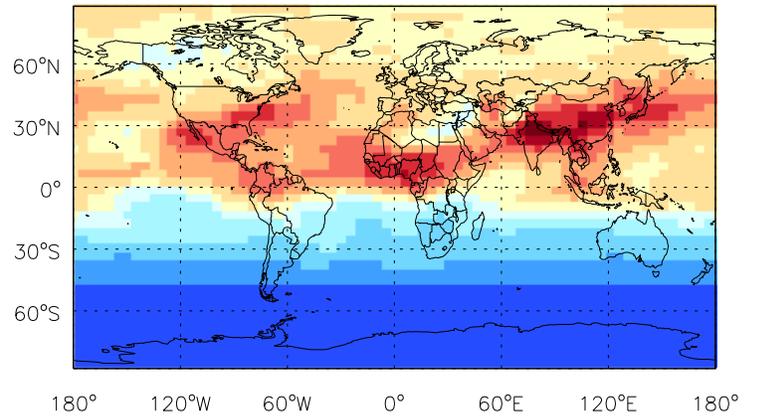
0.0002 16.8684 33.7366 50.6048 1e5 molec/cm3

Tracer Map @ Surface - HO2



0.0002 6.1531 12.3060 18.4588 pptv

Tracer Map @ 500 hPa - HO2



0.0010 5.1561 10.3112 15.4664 pptv