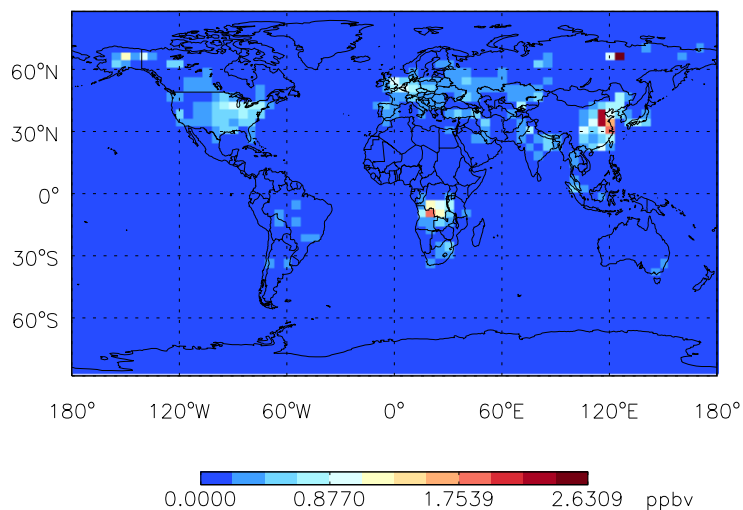


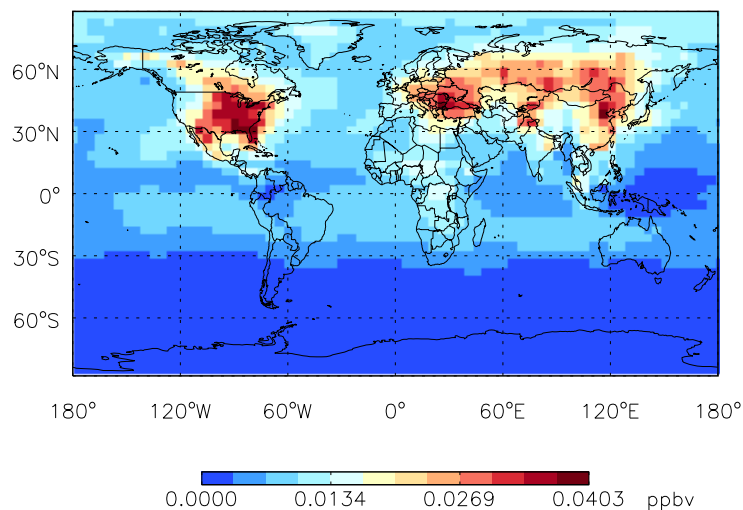
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

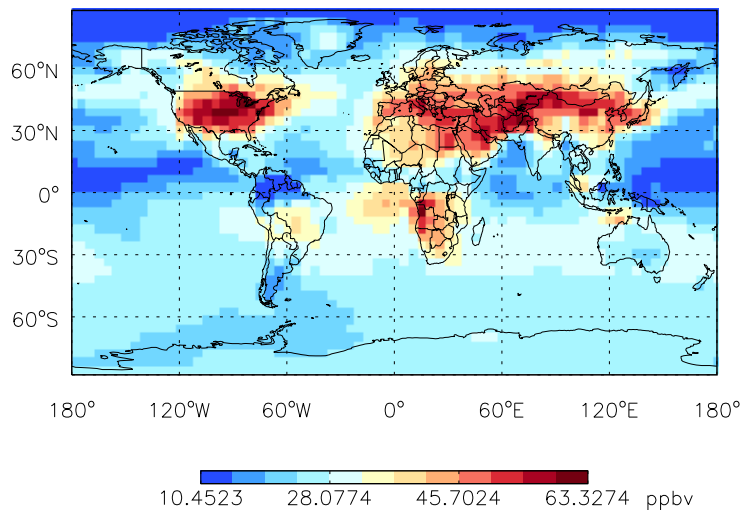
Tracer Map @ Surface – NO



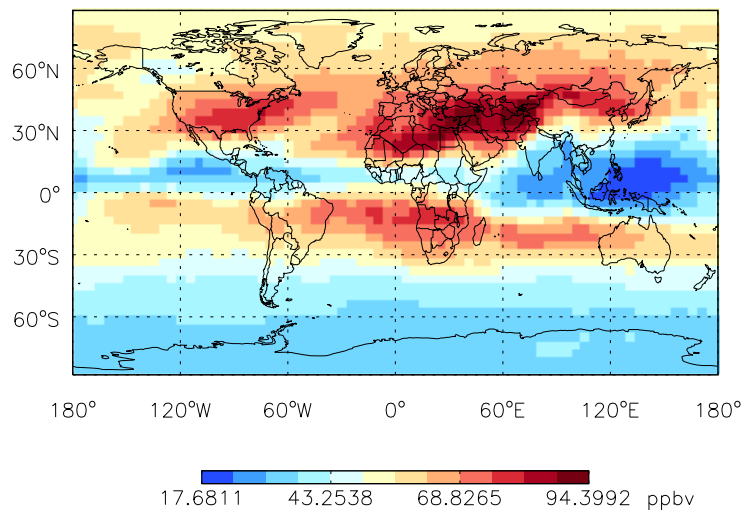
Tracer Map @ 500 hPa – NO



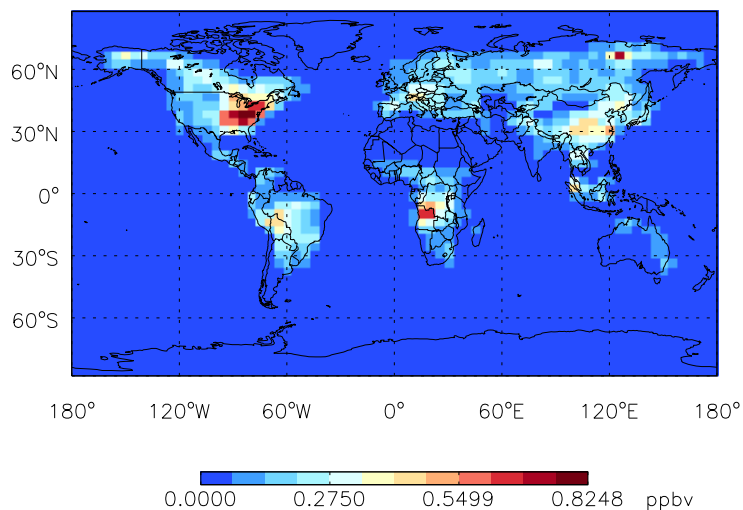
Tracer Map @ Surface – O3



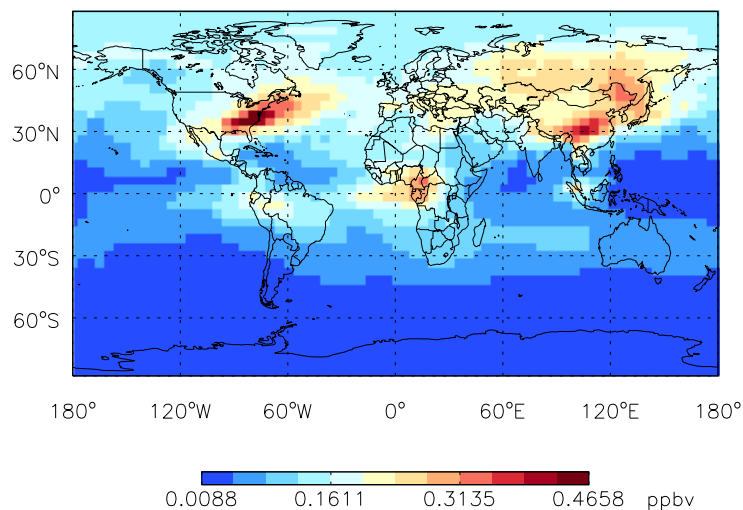
Tracer Map @ 500 hPa – O3



Tracer Map @ Surface – PAN



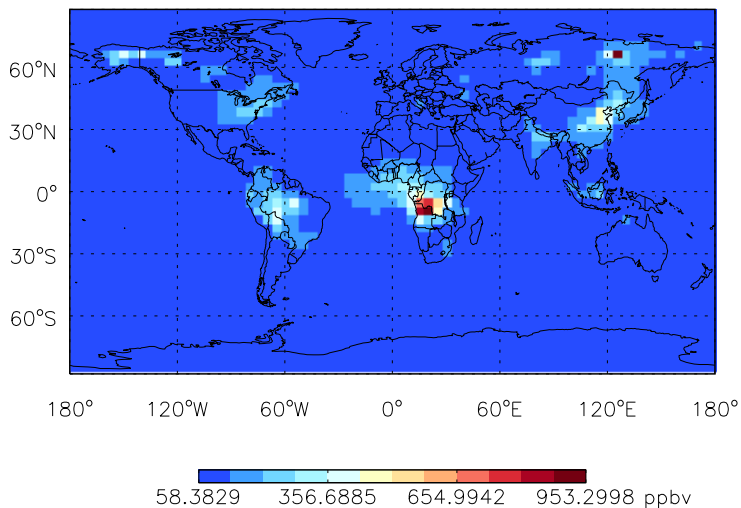
Tracer Map @ 500 hPa – PAN



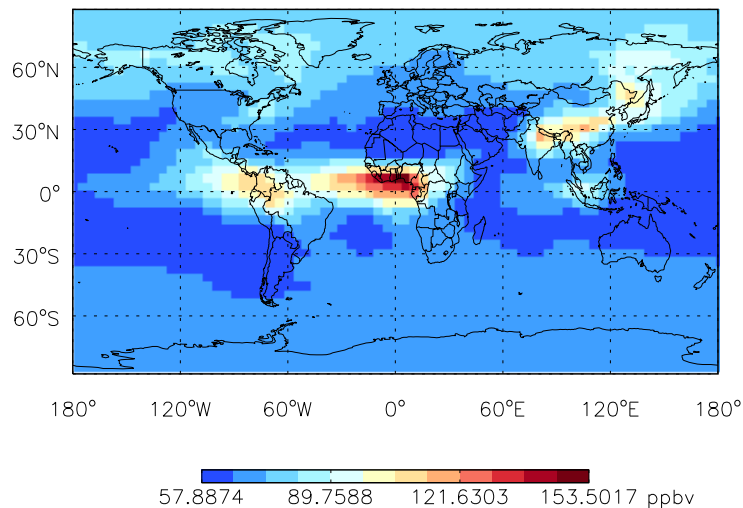
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

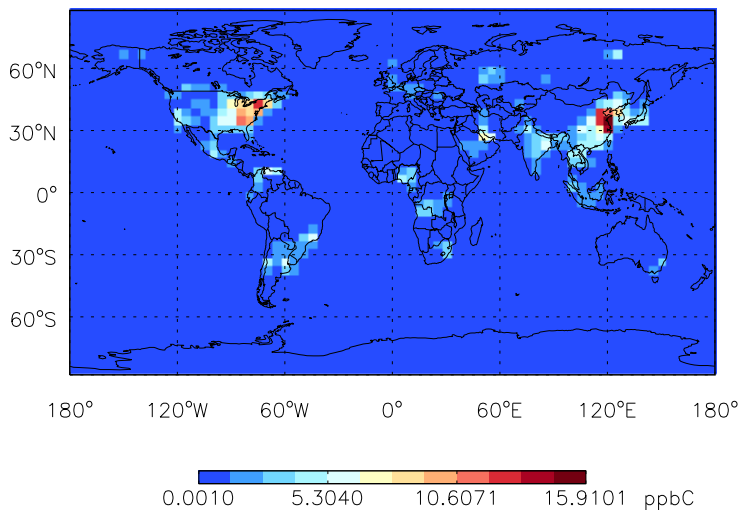
Tracer Map @ Surface - CO



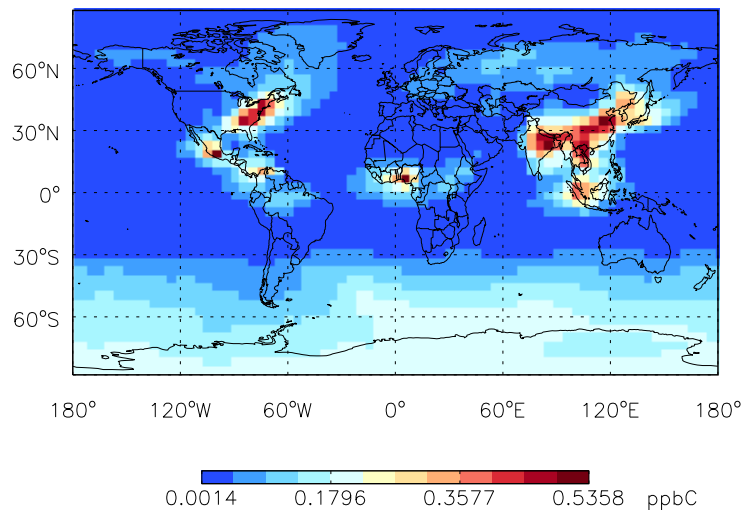
Tracer Map @ 500 hPa - CO



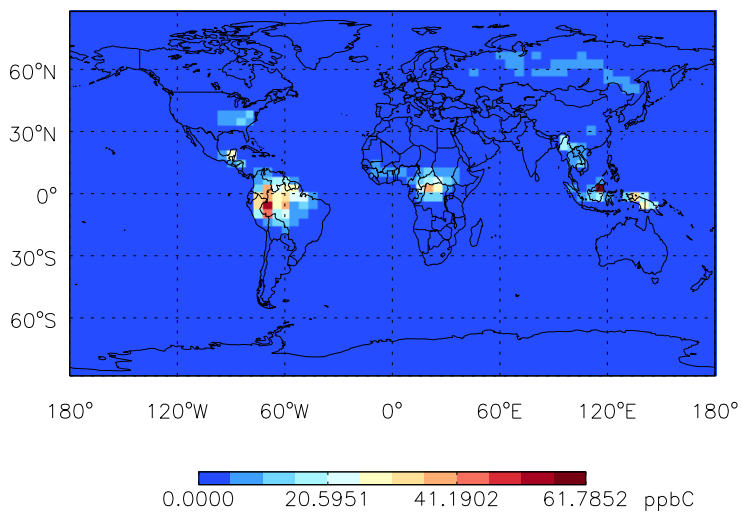
Tracer Map @ Surface - ALK4



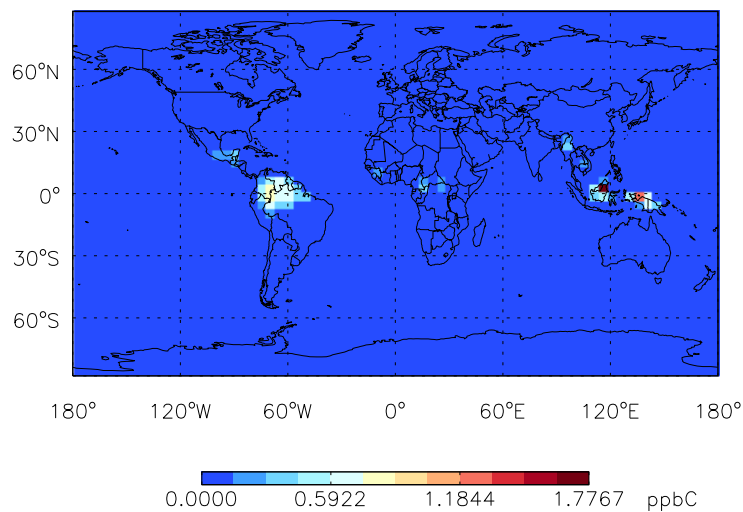
Tracer Map @ 500 hPa - ALK4



Tracer Map @ Surface - ISOP



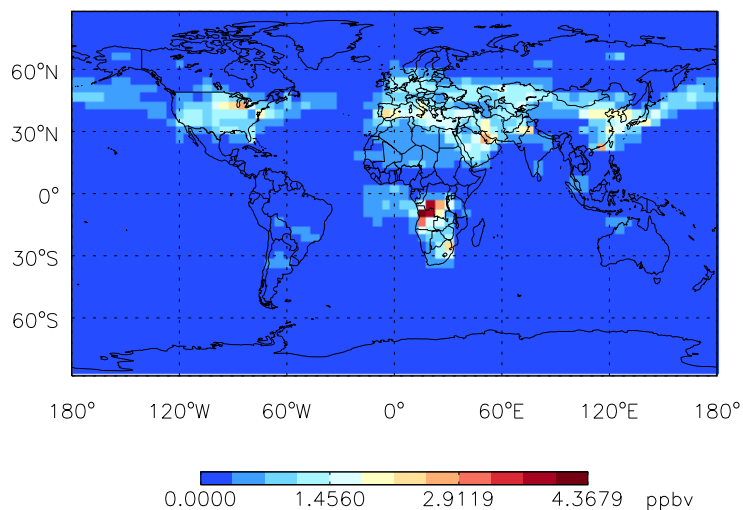
Tracer Map @ 500 hPa - ISOP



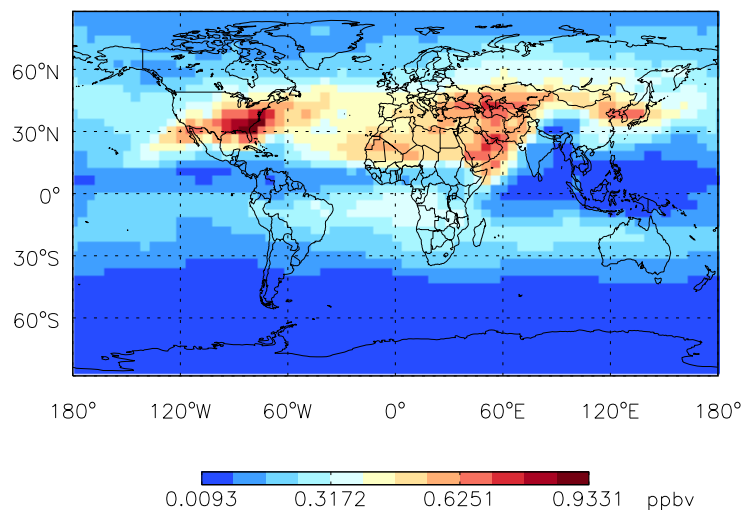
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

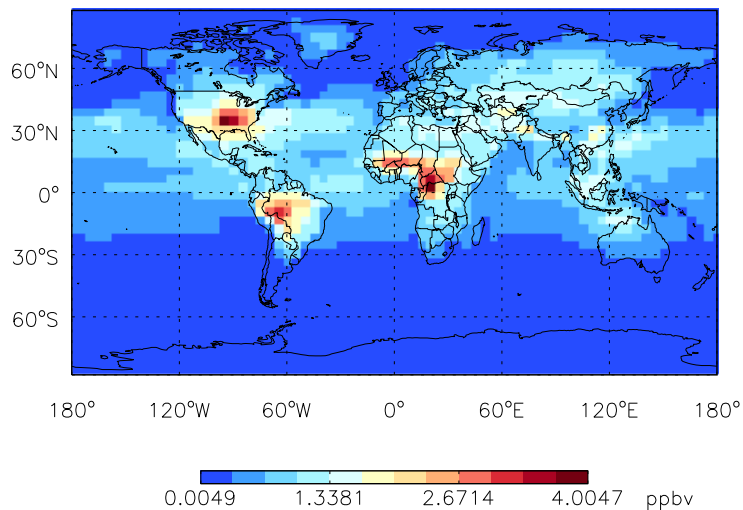
Tracer Map @ Surface – HN03



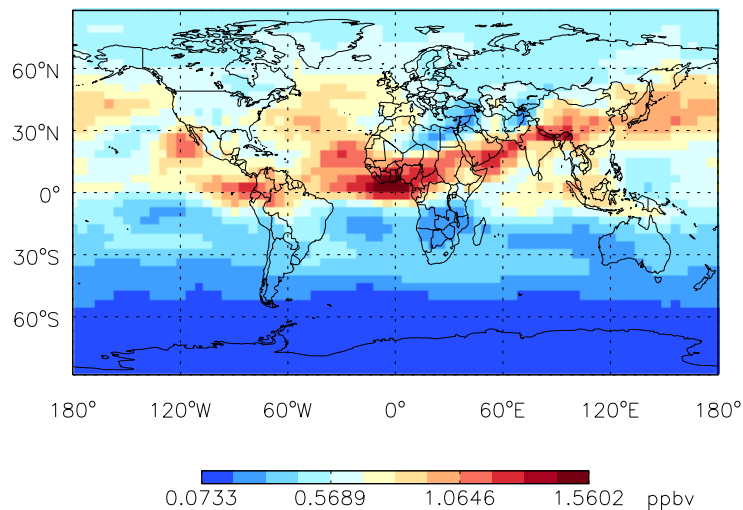
Tracer Map @ 500 hPa – HN03



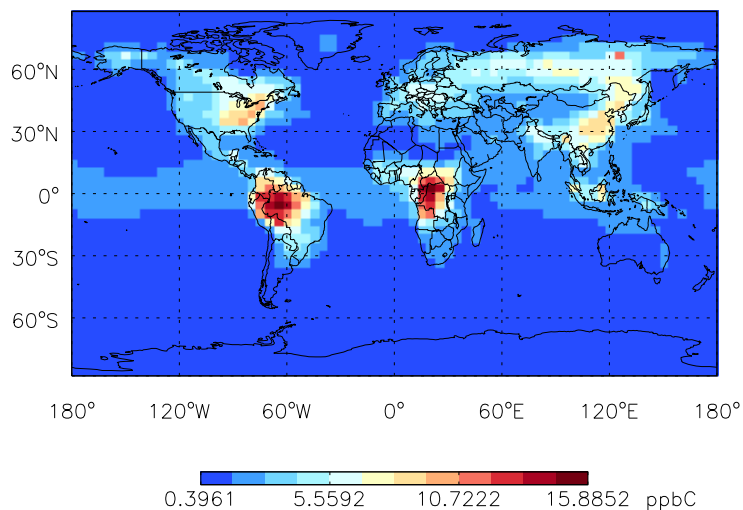
Tracer Map @ Surface – H2O2



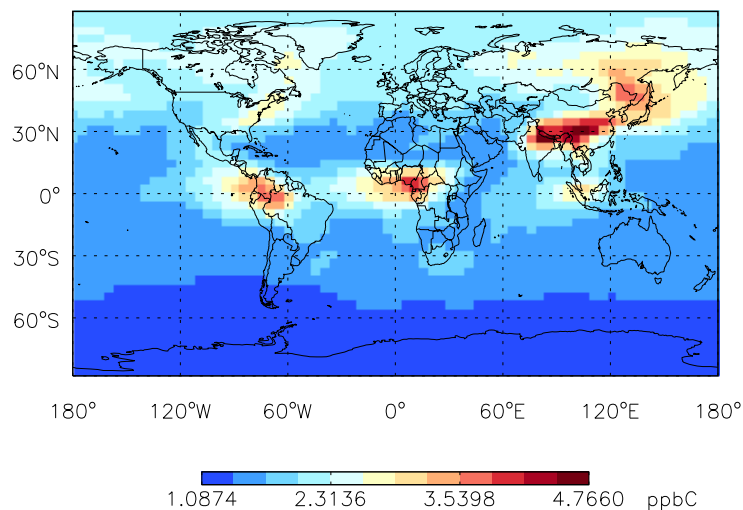
Tracer Map @ 500 hPa – H2O2



Tracer Map @ Surface – ACET



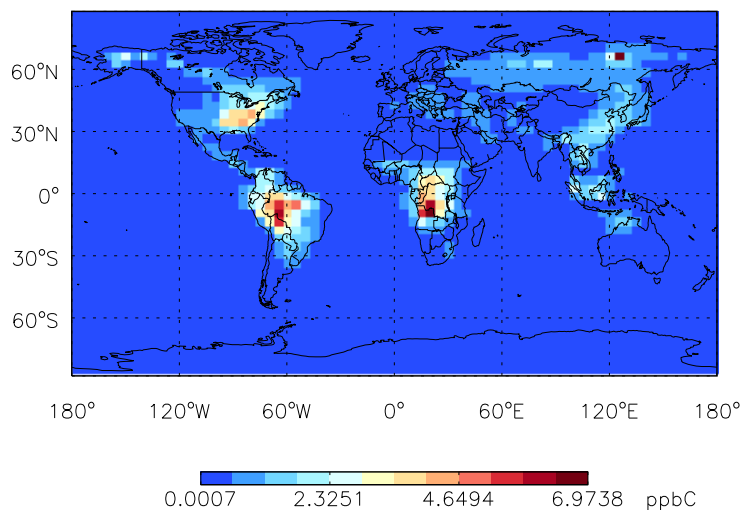
Tracer Map @ 500 hPa – ACET



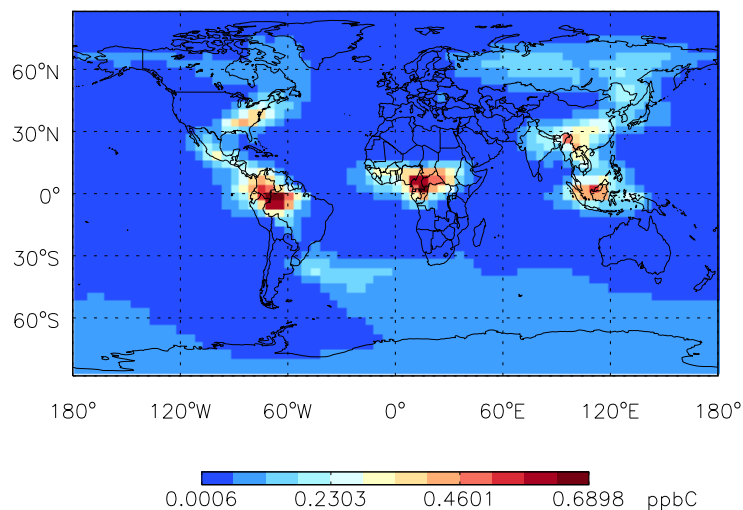
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

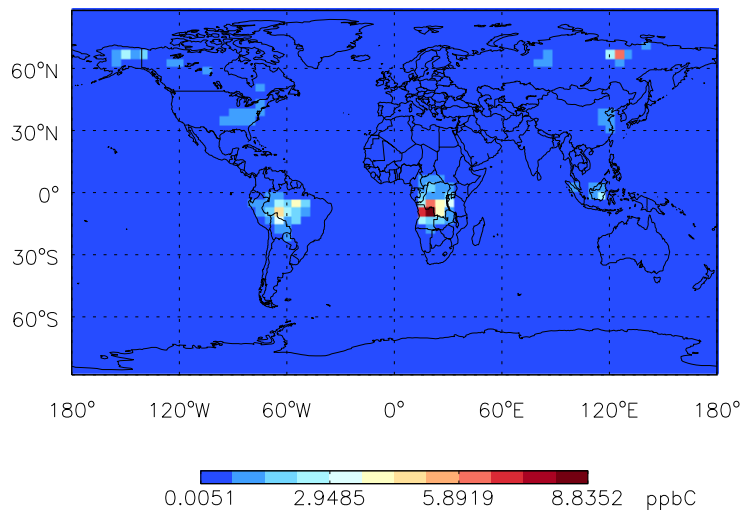
Tracer Map @ Surface – MEK



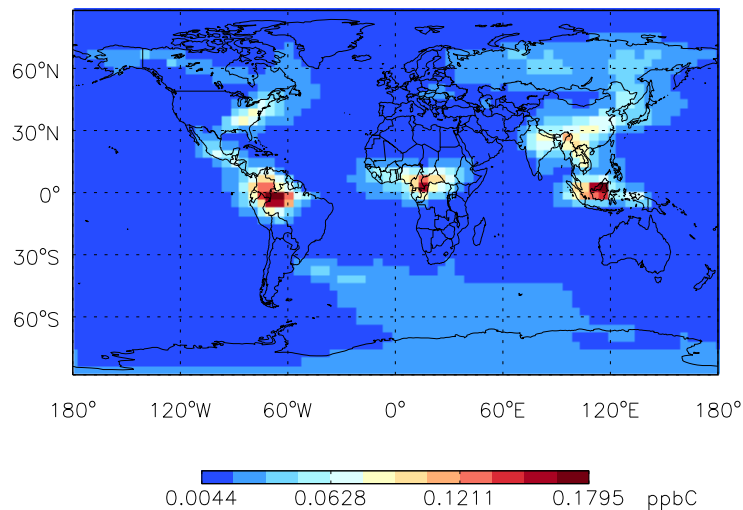
Tracer Map @ 500 hPa – MEK



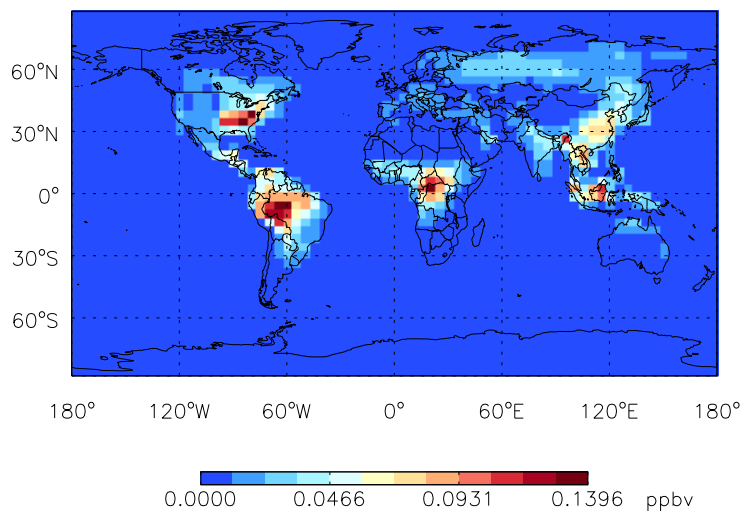
Tracer Map @ Surface – ALD2



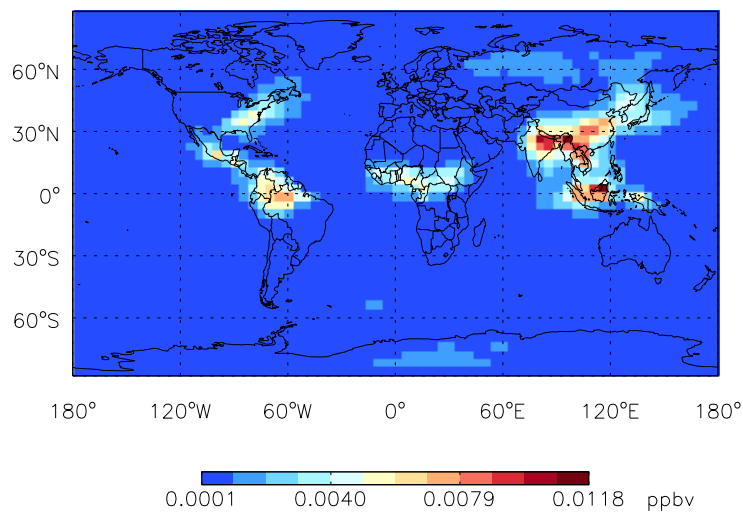
Tracer Map @ 500 hPa – ALD2



Tracer Map @ Surface – RCHO



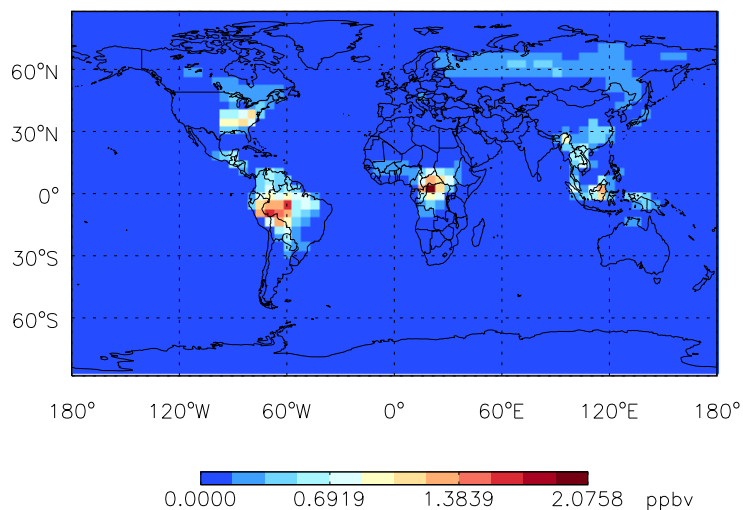
Tracer Map @ 500 hPa – RCHO



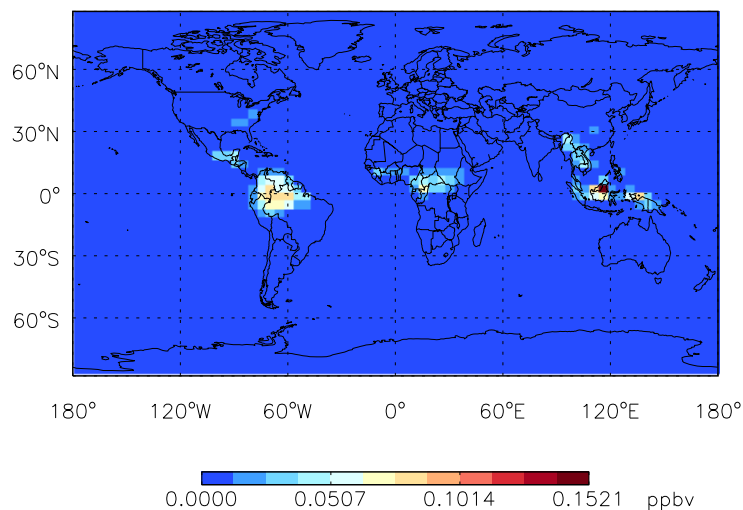
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

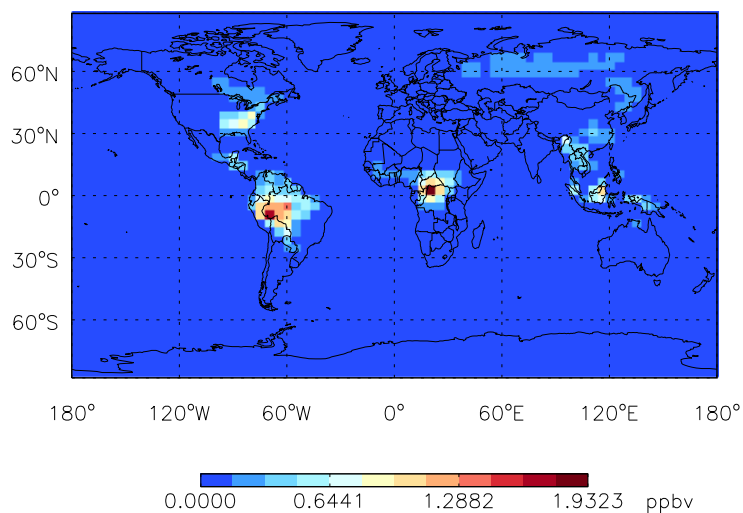
Tracer Map @ Surface – MVK



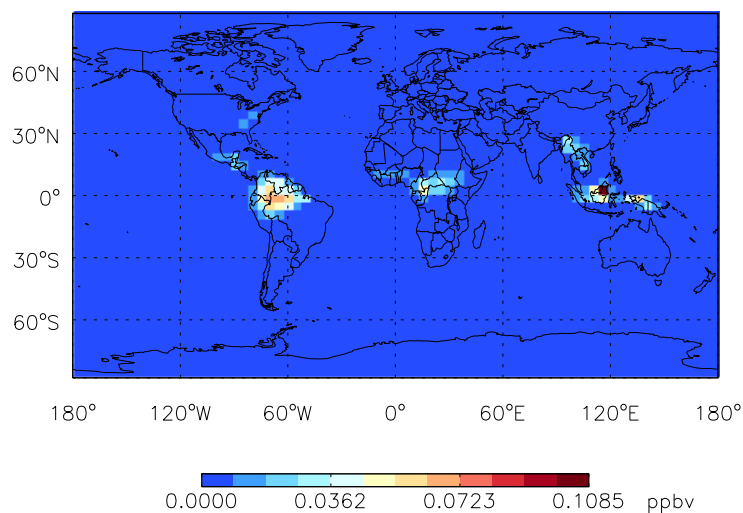
Tracer Map @ 500 hPa – MVK



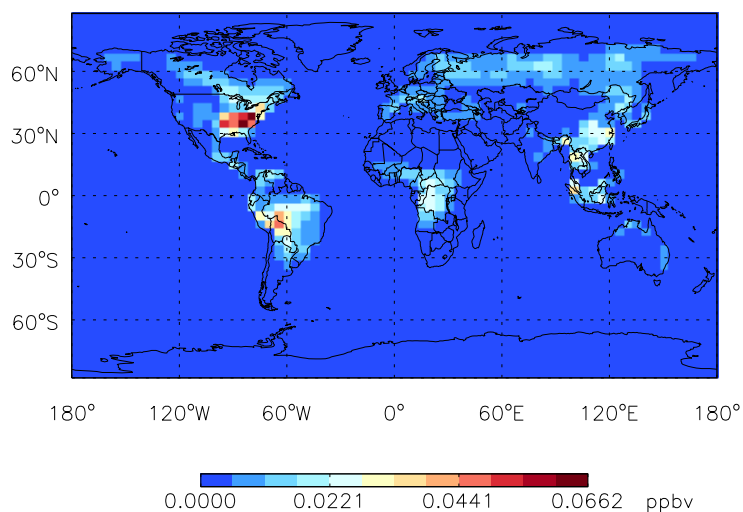
Tracer Map @ Surface – MACR



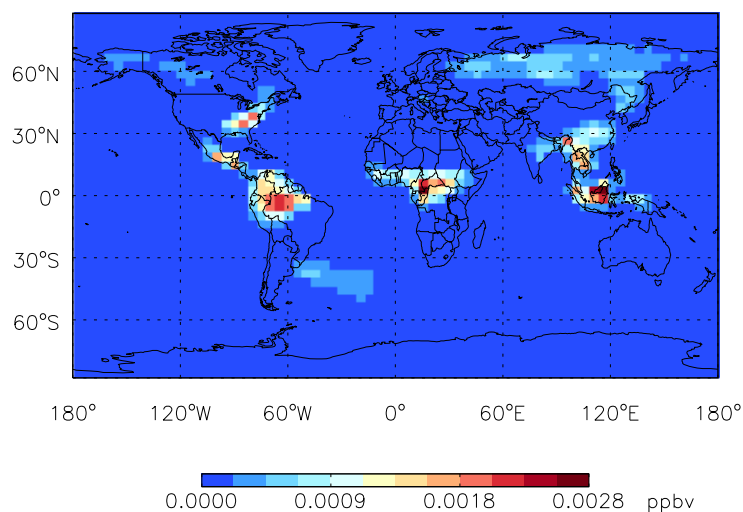
Tracer Map @ 500 hPa – MACR



Tracer Map @ Surface – PMN



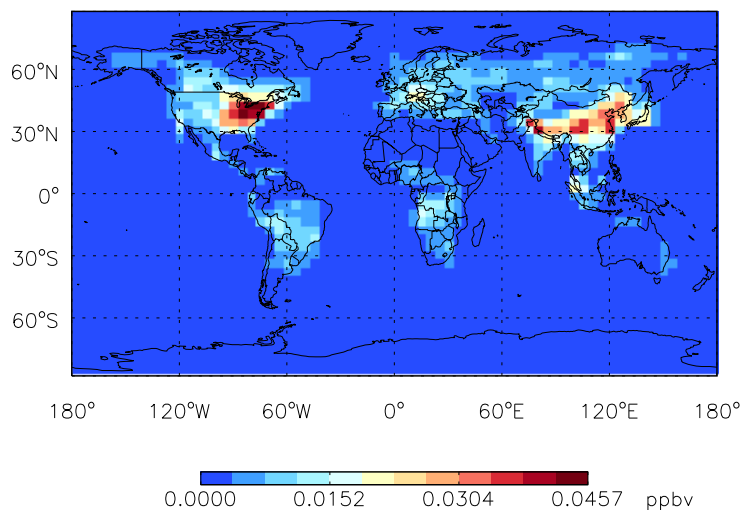
Tracer Map @ 500 hPa – PMN



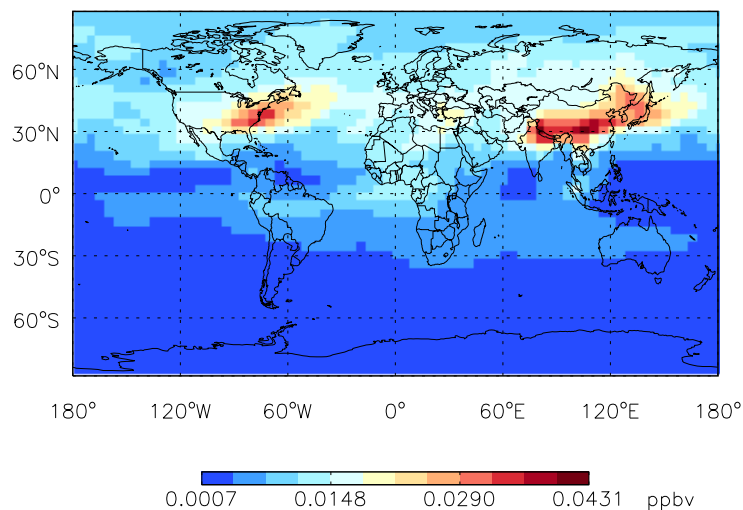
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

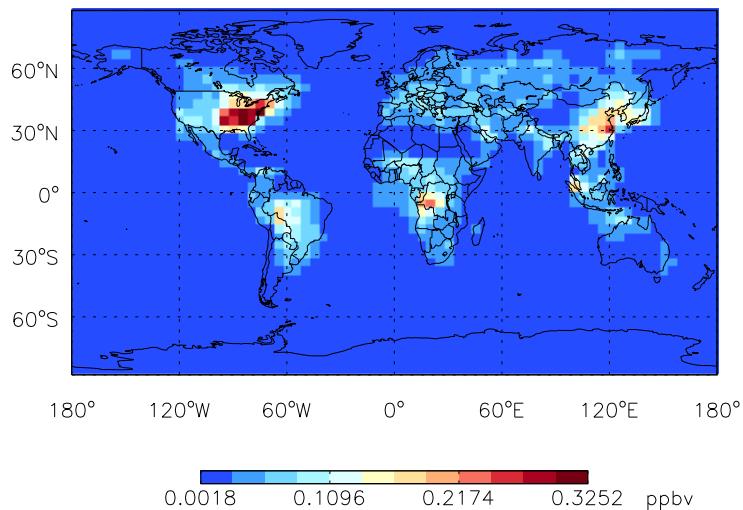
Tracer Map @ Surface – PPN



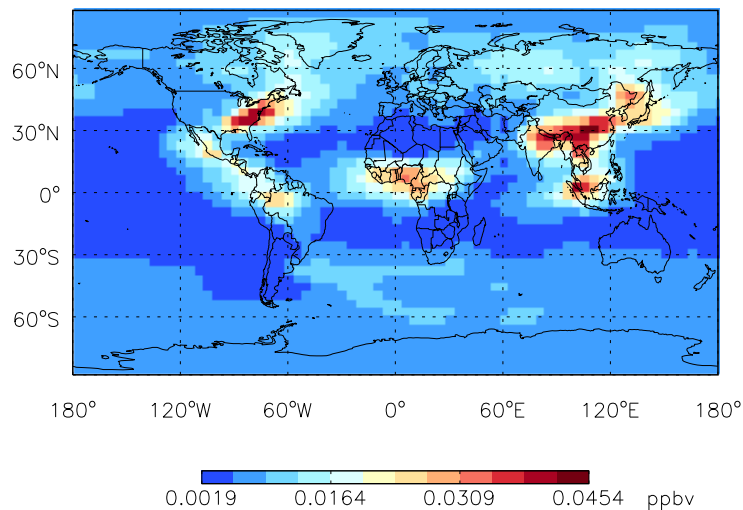
Tracer Map @ 500 hPa – PPN



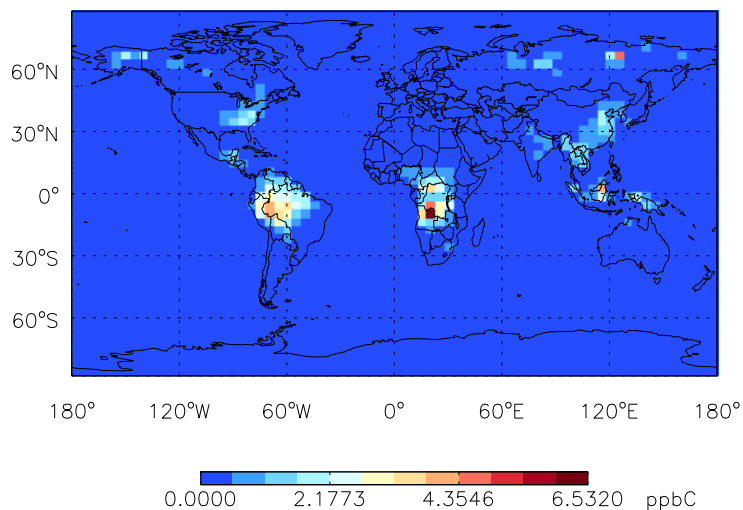
Tracer Map @ Surface – R4N2



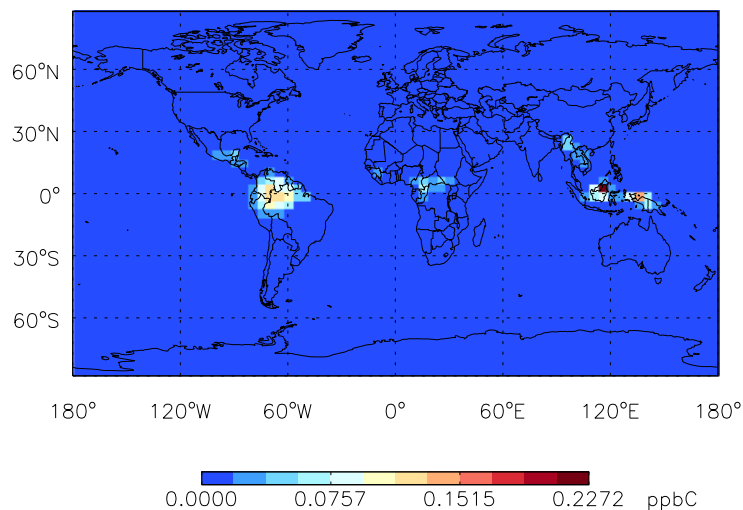
Tracer Map @ 500 hPa – R4N2



Tracer Map @ Surface – PRPE



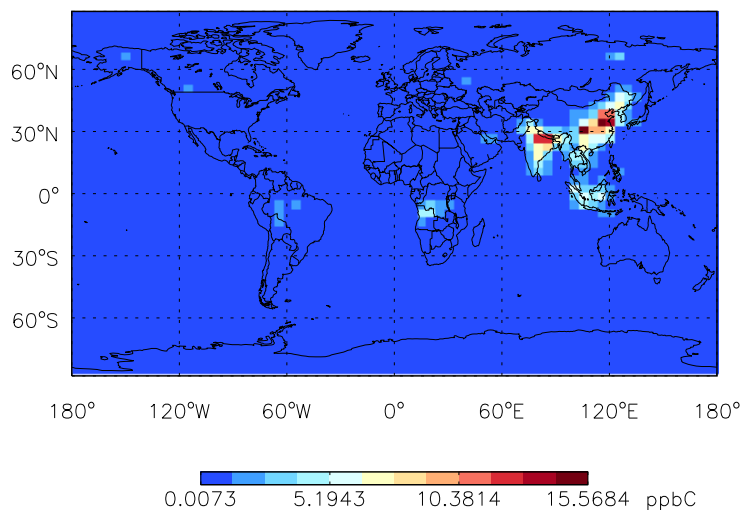
Tracer Map @ 500 hPa – PRPE



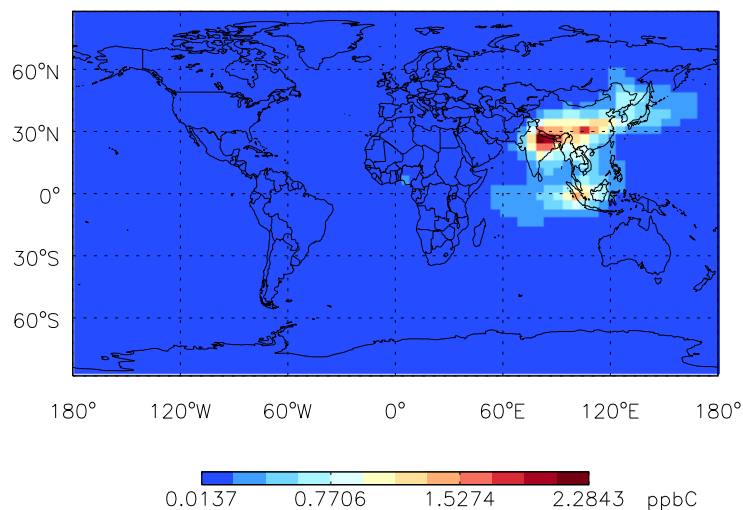
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

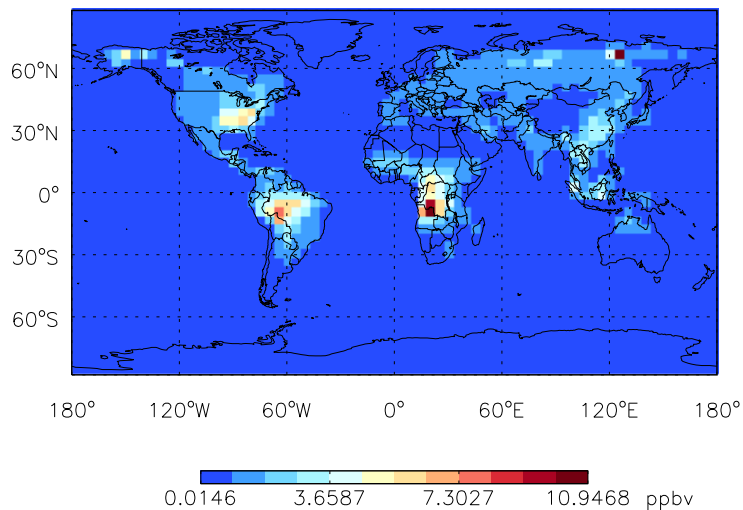
Tracer Map @ Surface – C3H8



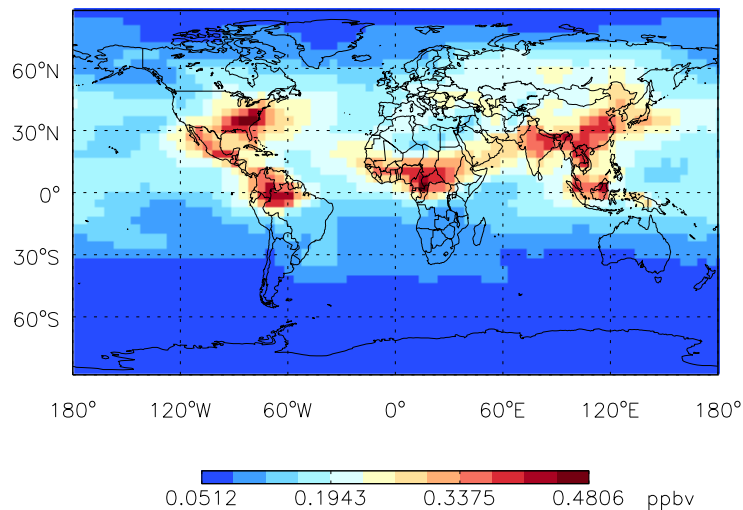
Tracer Map @ 500 hPa – C3H8



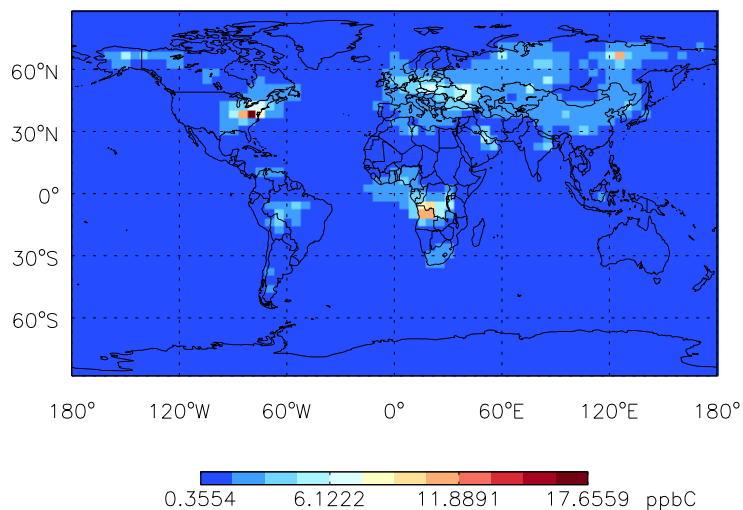
Tracer Map @ Surface – CH2O



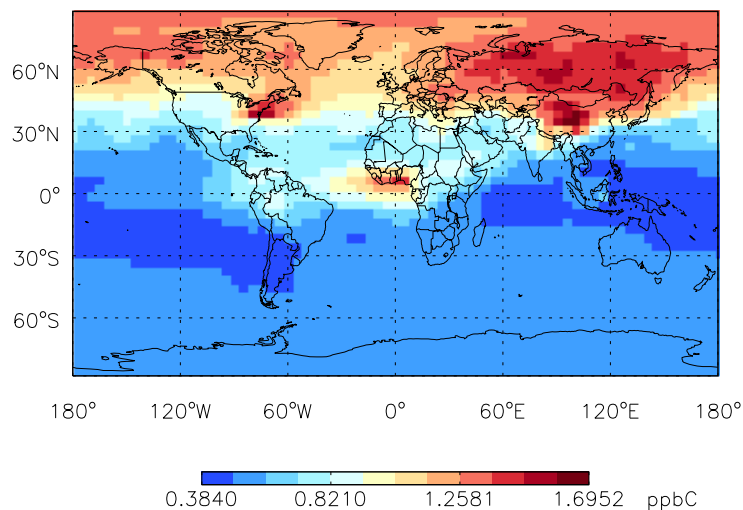
Tracer Map @ 500 hPa – CH2O



Tracer Map @ Surface – C2H6



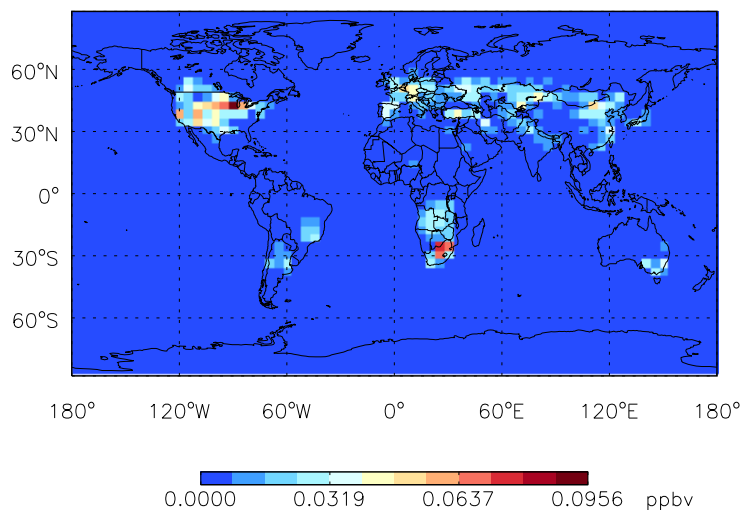
Tracer Map @ 500 hPa – C2H6



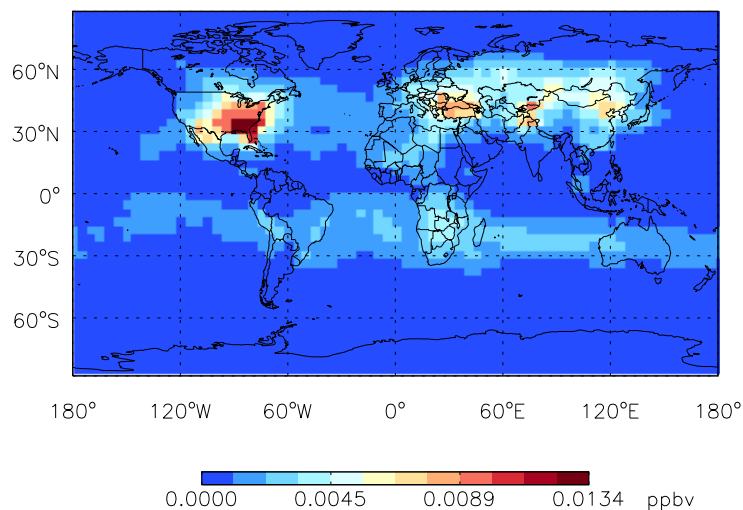
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

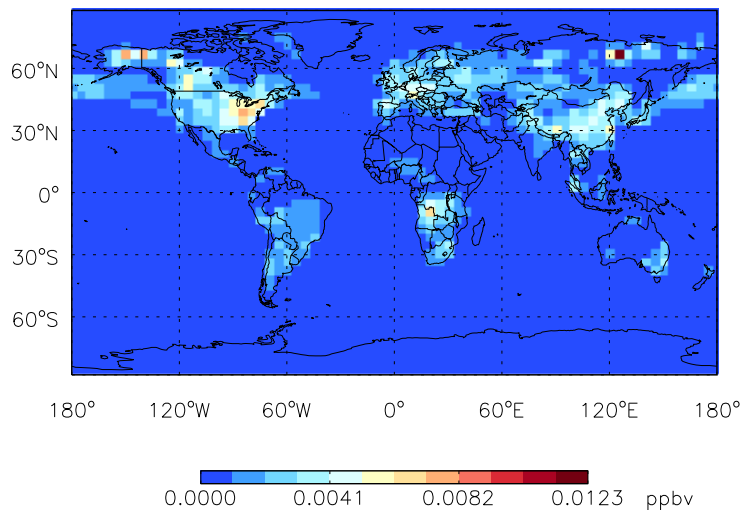
Tracer Map @ Surface – N2O5



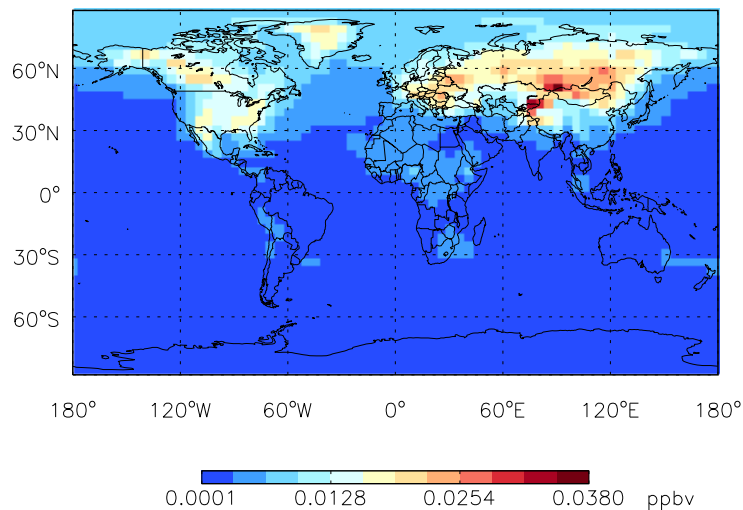
Tracer Map @ 500 hPa – N2O5



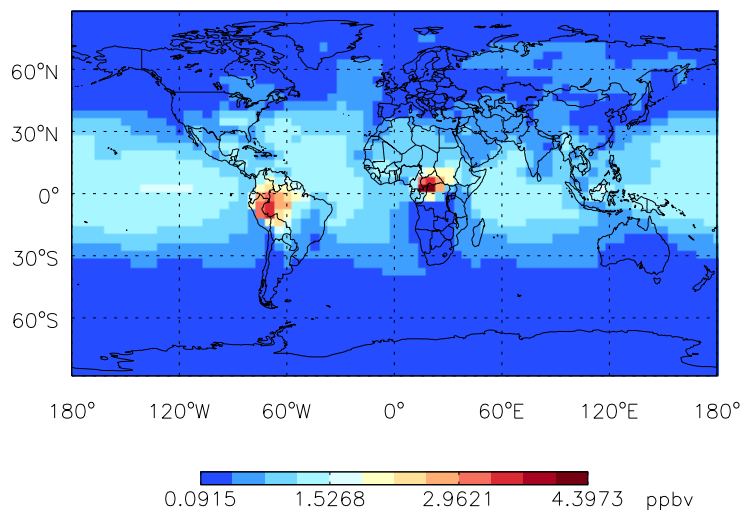
Tracer Map @ Surface – HN04



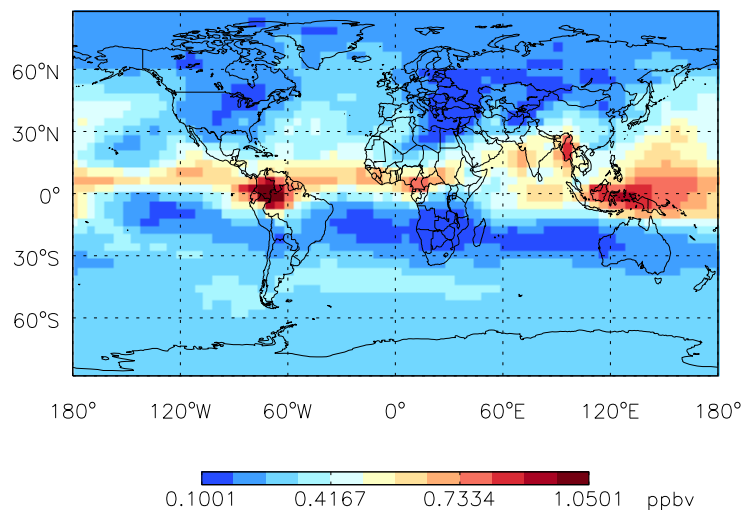
Tracer Map @ 500 hPa – HN04



Tracer Map @ Surface – MP



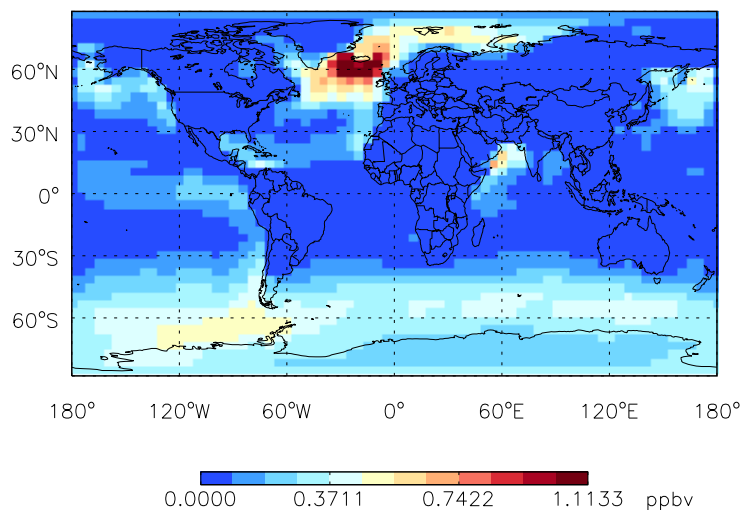
Tracer Map @ 500 hPa – MP



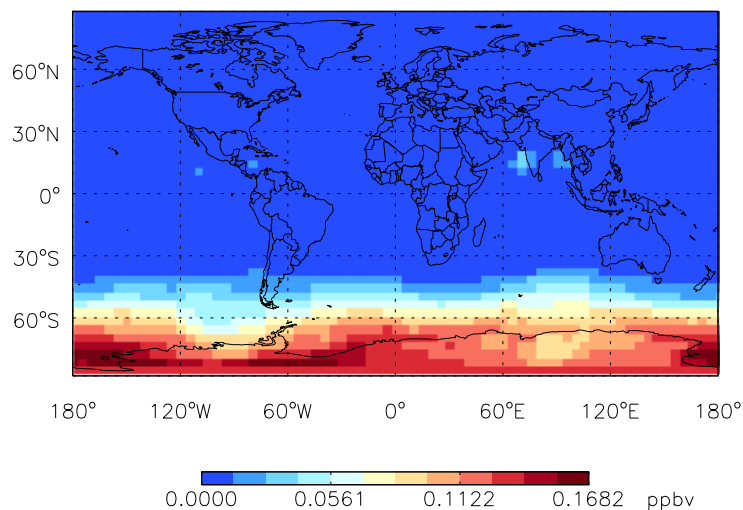
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

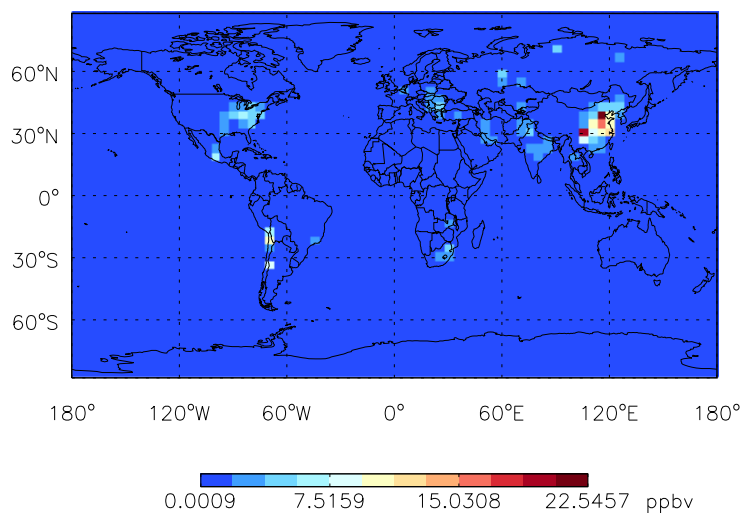
Tracer Map @ Surface – DMS



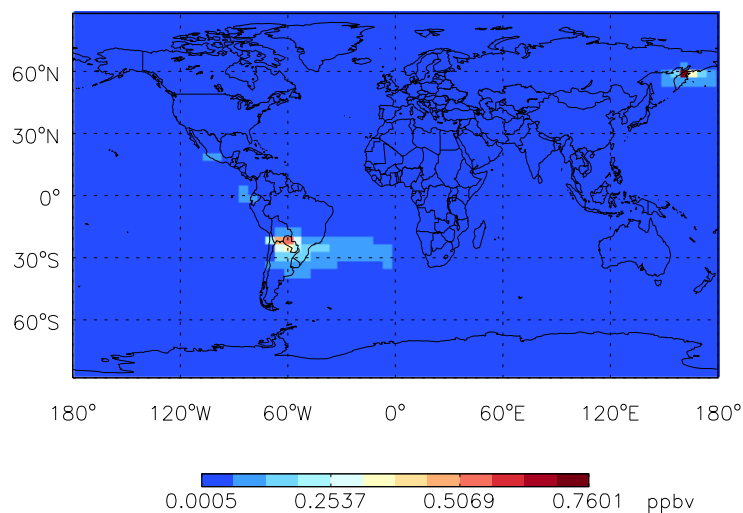
Tracer Map @ 500 hPa – DMS



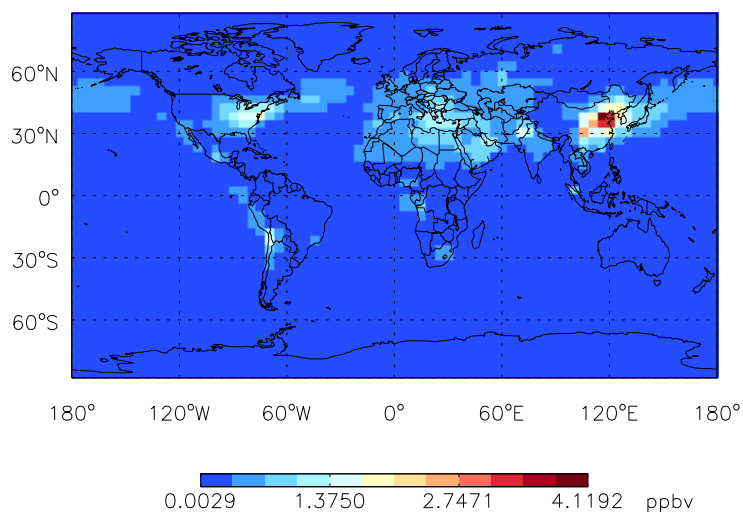
Tracer Map @ Surface – SO2



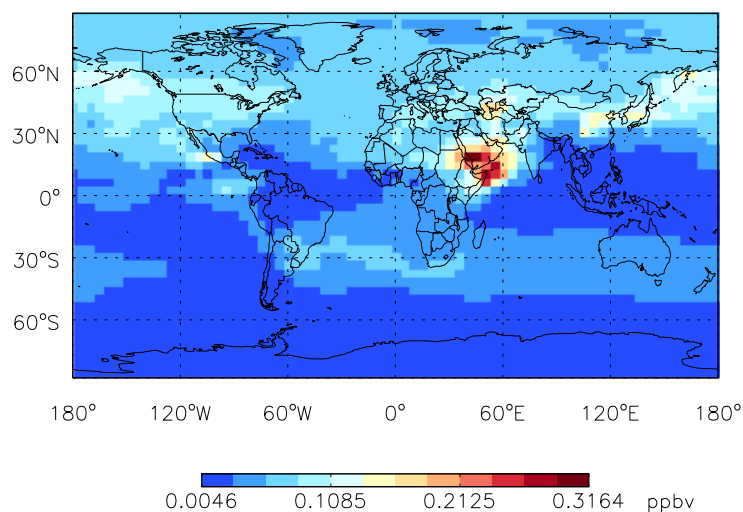
Tracer Map @ 500 hPa – SO2



Tracer Map @ Surface – SO4



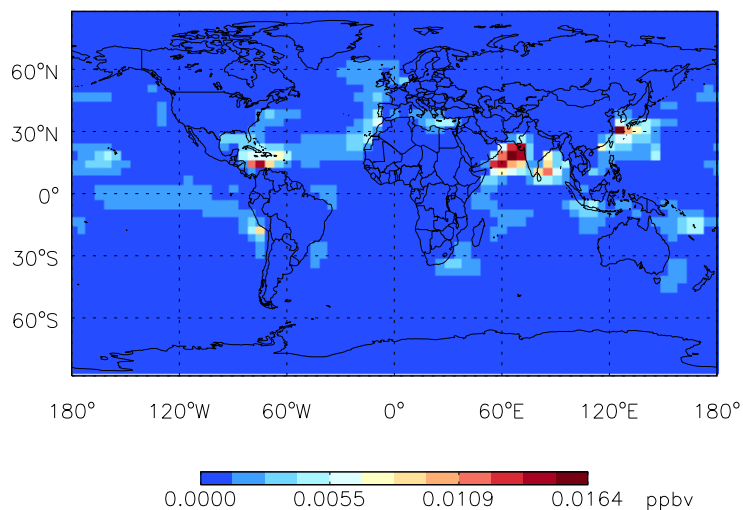
Tracer Map @ 500 hPa – SO4



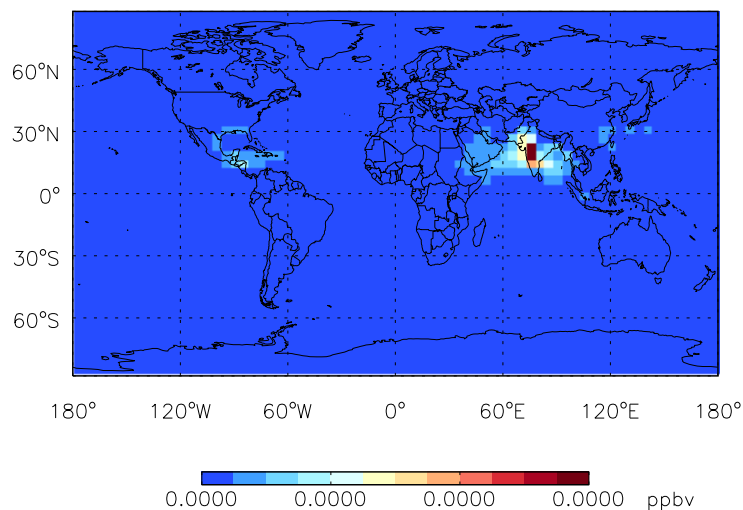
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

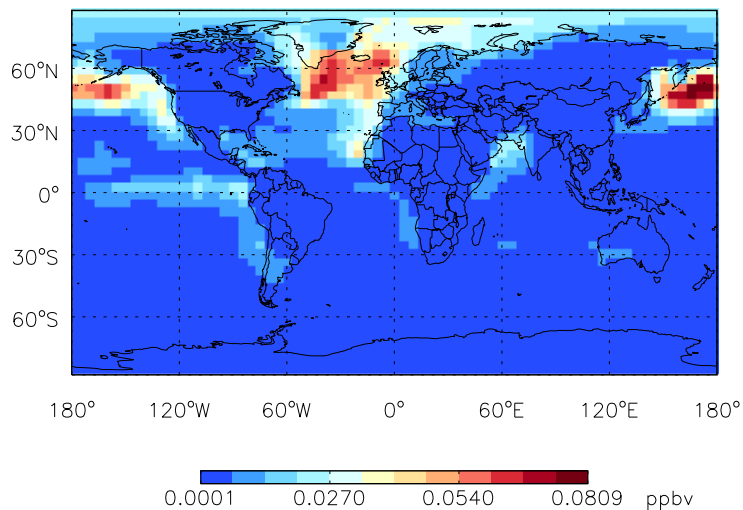
Tracer Map @ Surface – SO4s



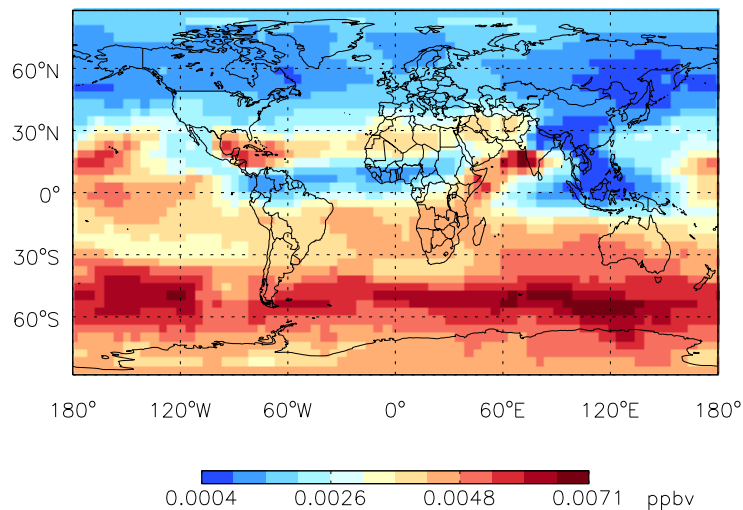
Tracer Map @ 500 hPa – SO4s



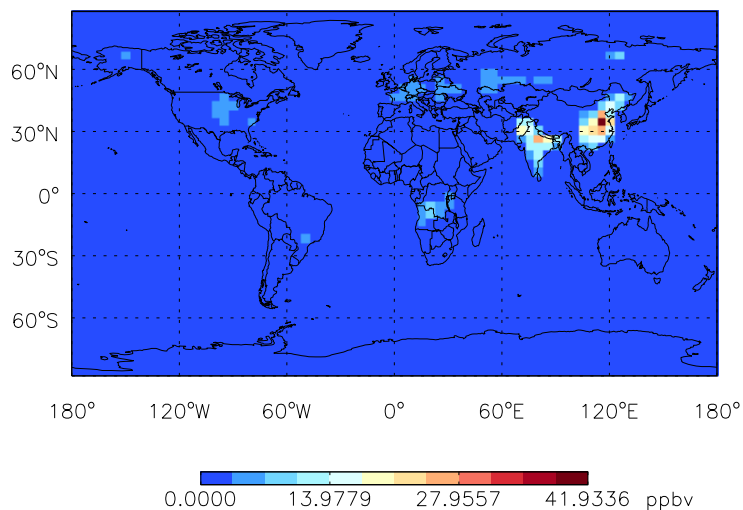
Tracer Map @ Surface – MSA



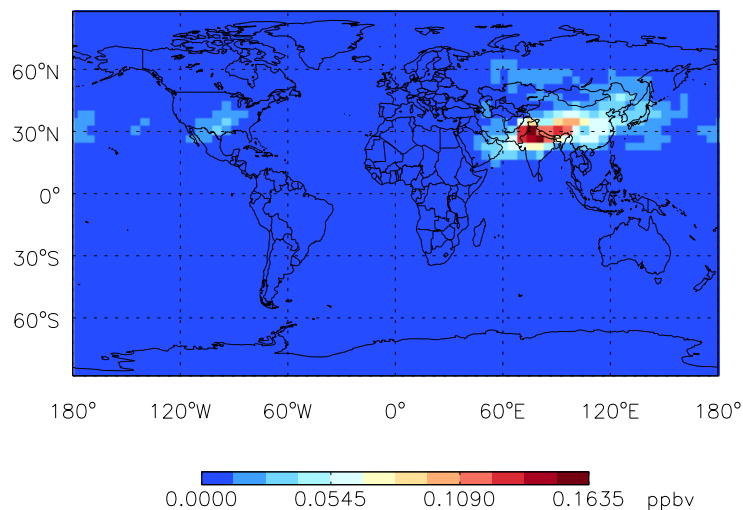
Tracer Map @ 500 hPa – MSA



Tracer Map @ Surface – NH3



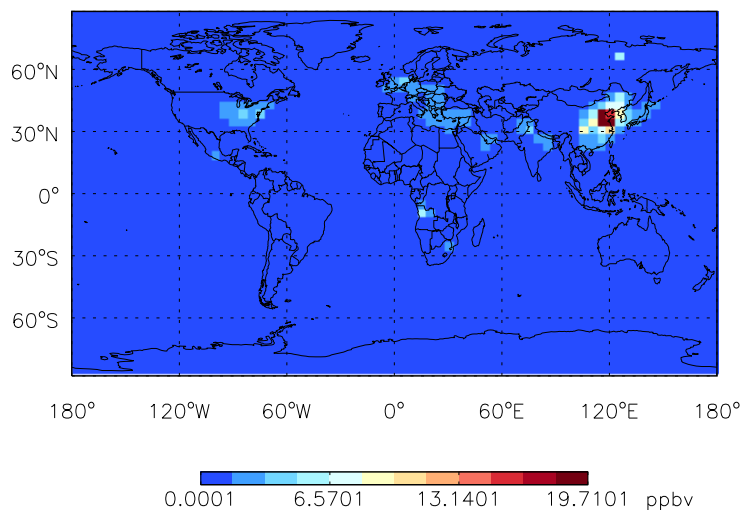
Tracer Map @ 500 hPa – NH3



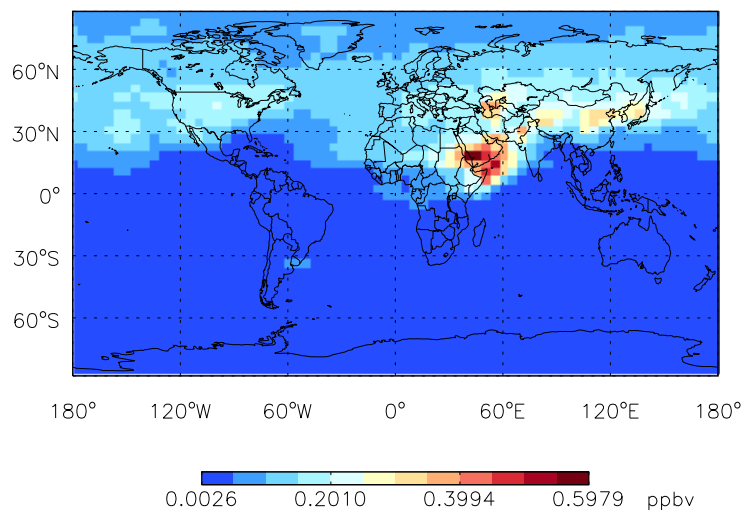
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

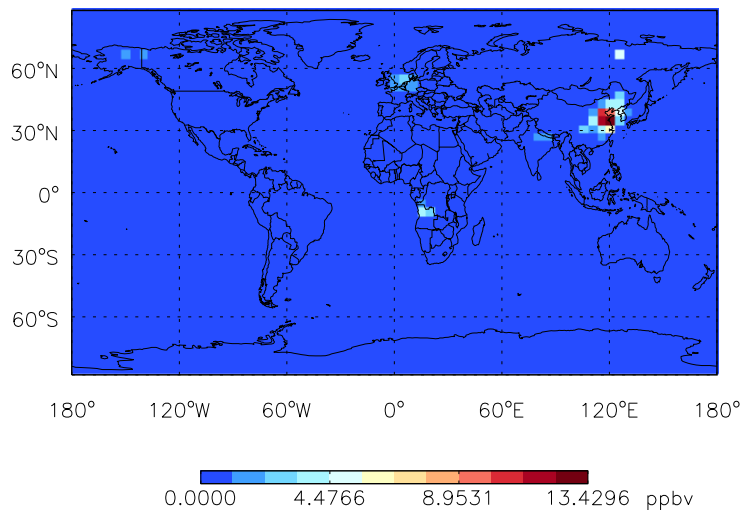
Tracer Map @ Surface – NH4



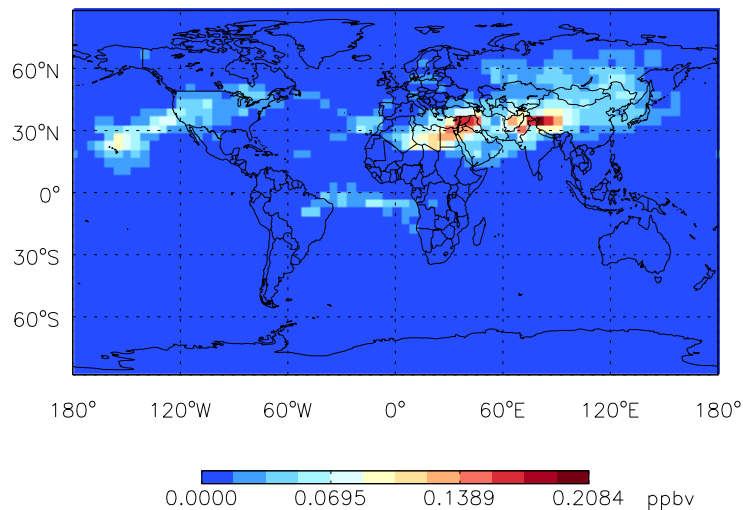
Tracer Map @ 500 hPa – NH4



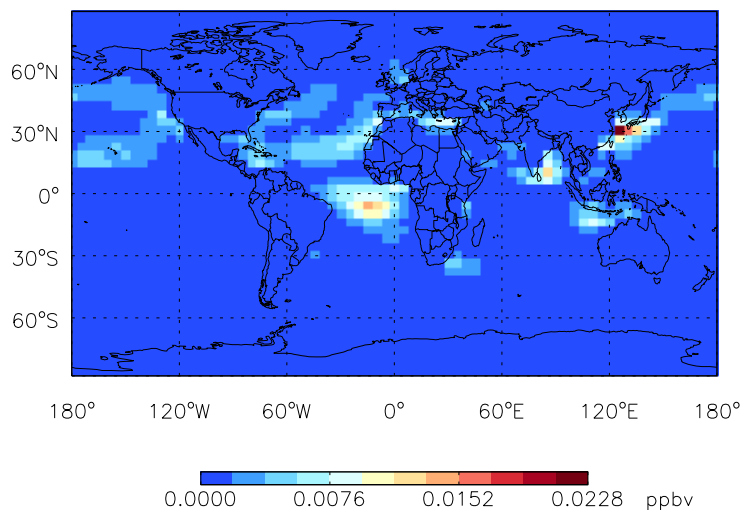
Tracer Map @ Surface – NIT



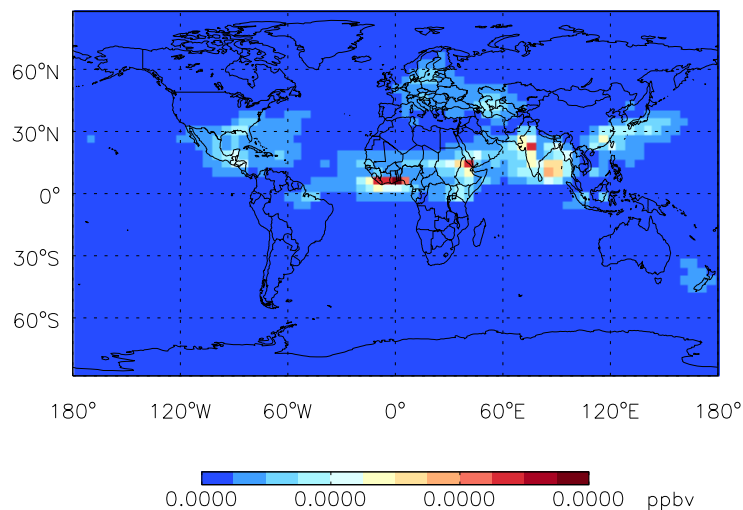
Tracer Map @ 500 hPa – NIT



Tracer Map @ Surface – NITs



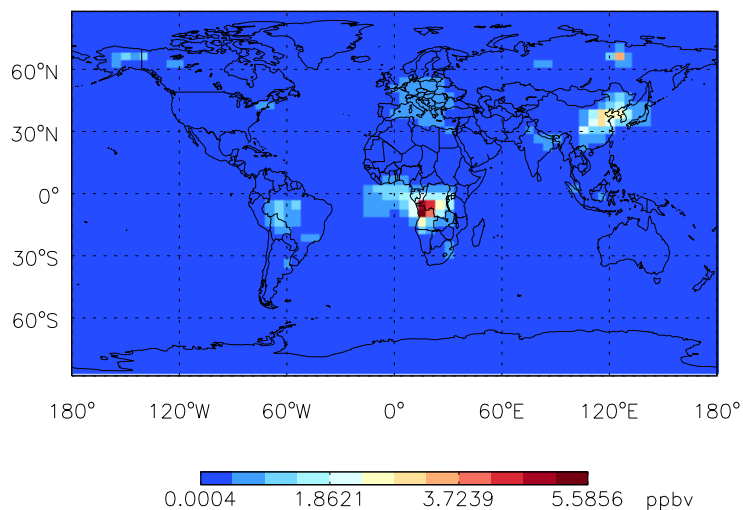
Tracer Map @ 500 hPa – NITs



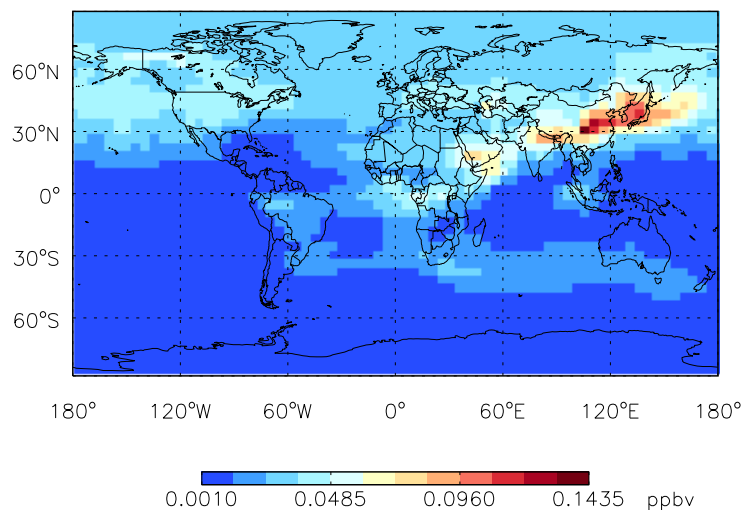
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

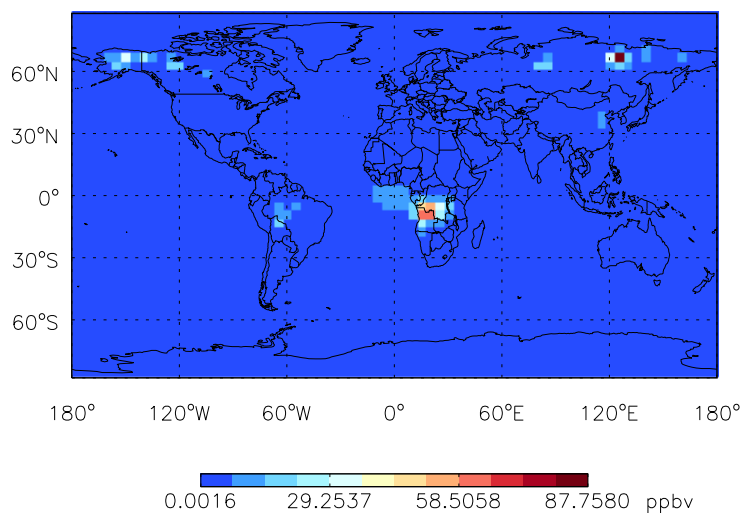
Tracer Map @ Surface – BCPI



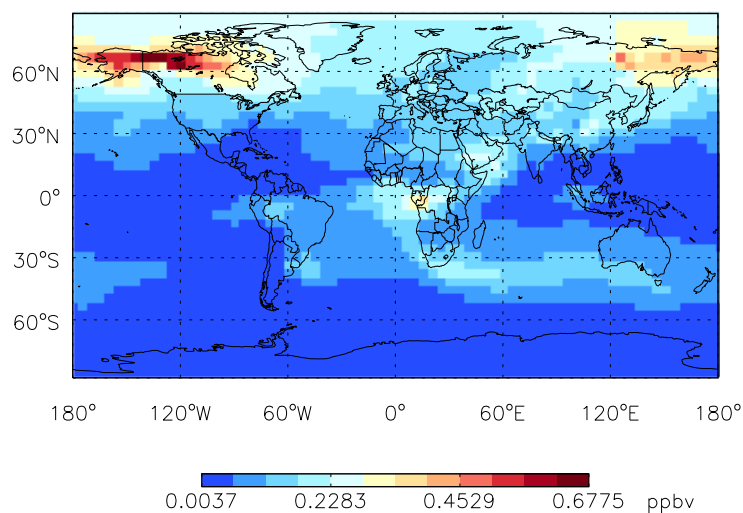
Tracer Map @ 500 hPa – BCPI



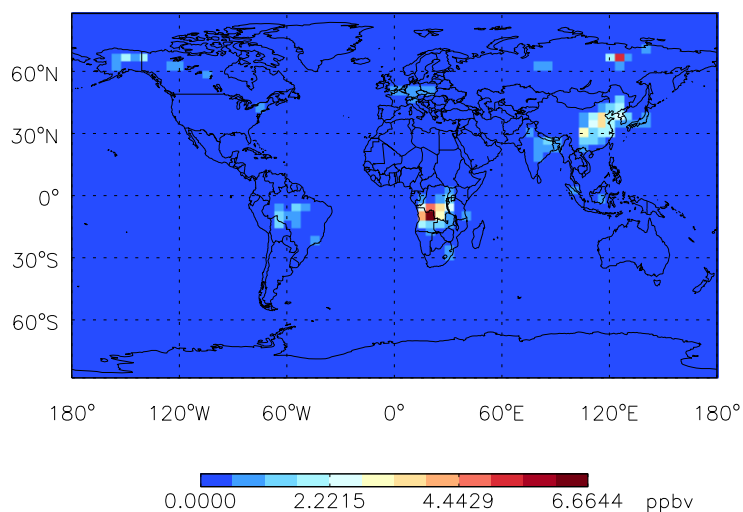
Tracer Map @ Surface – OCPI



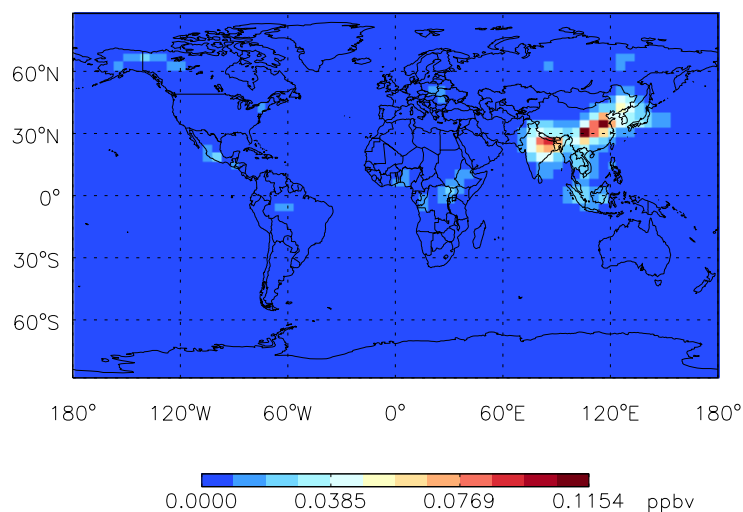
Tracer Map @ 500 hPa – OCPI



Tracer Map @ Surface – BCPO



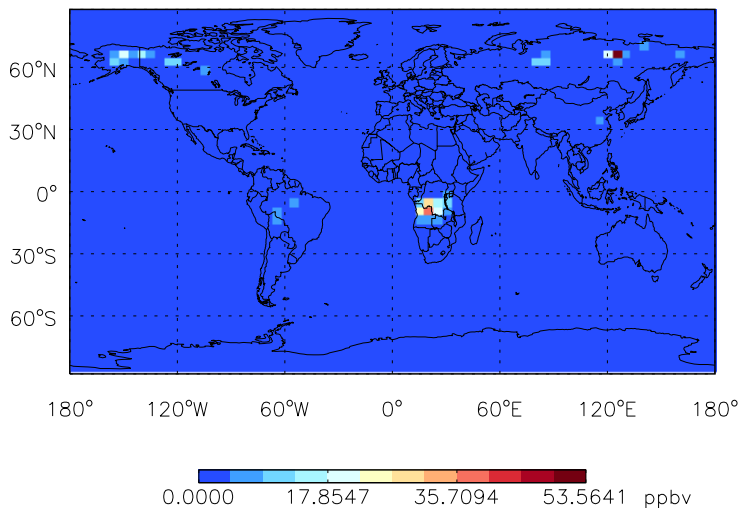
Tracer Map @ 500 hPa – BCPO



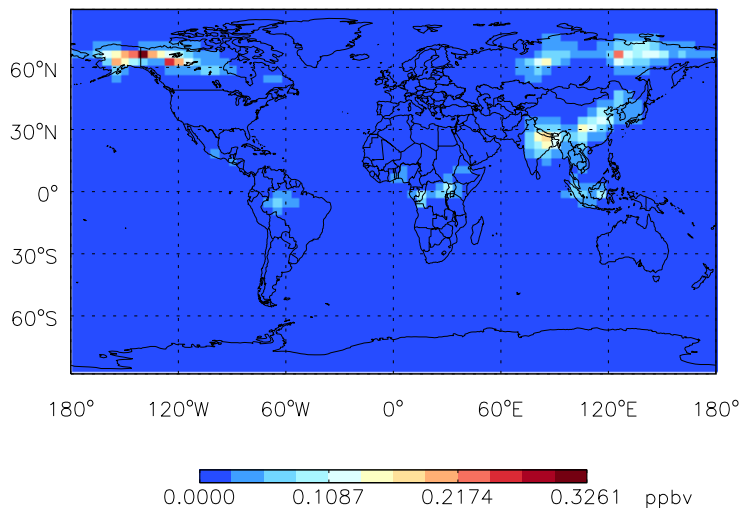
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

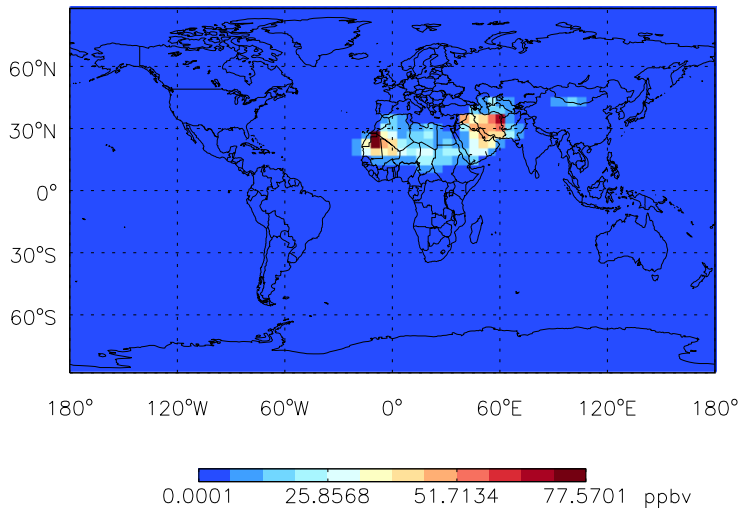
Tracer Map @ Surface – OCPO



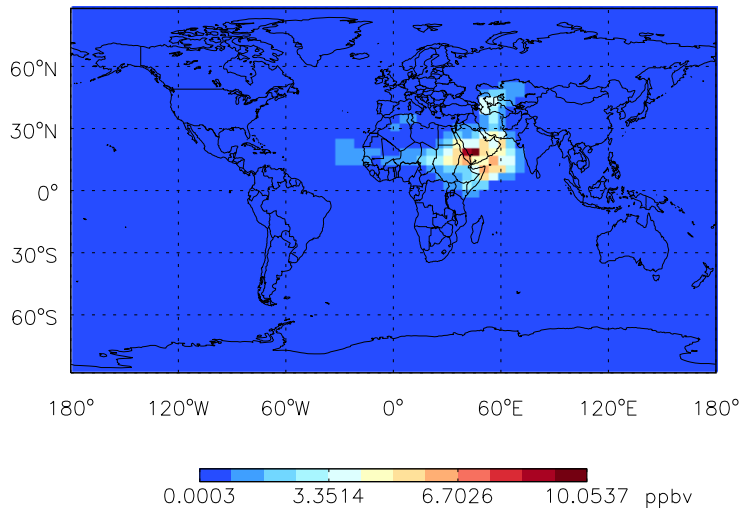
Tracer Map @ 500 hPa – OCPO



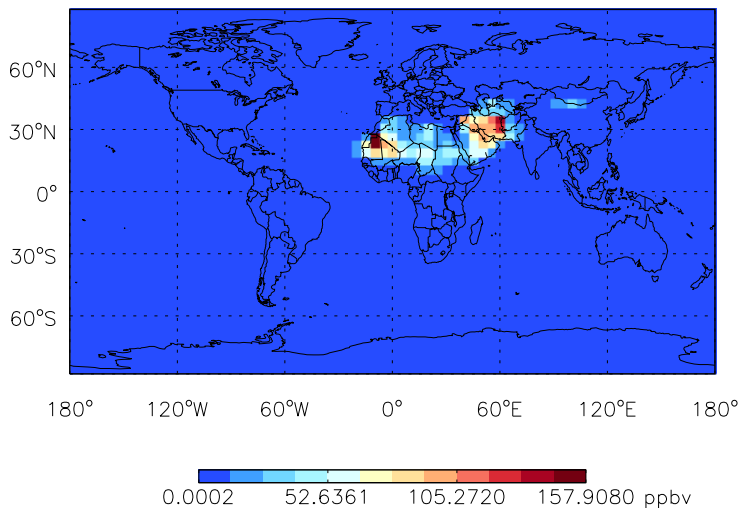
Tracer Map @ Surface – DST1



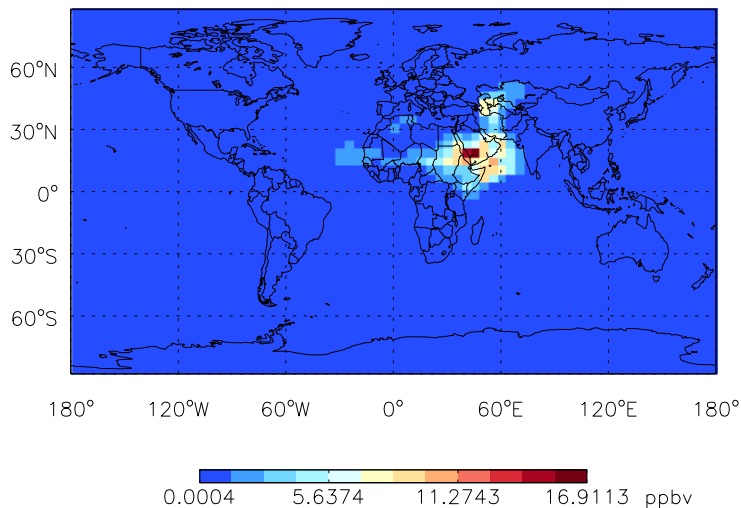
Tracer Map @ 500 hPa – DST1



Tracer Map @ Surface – DST2



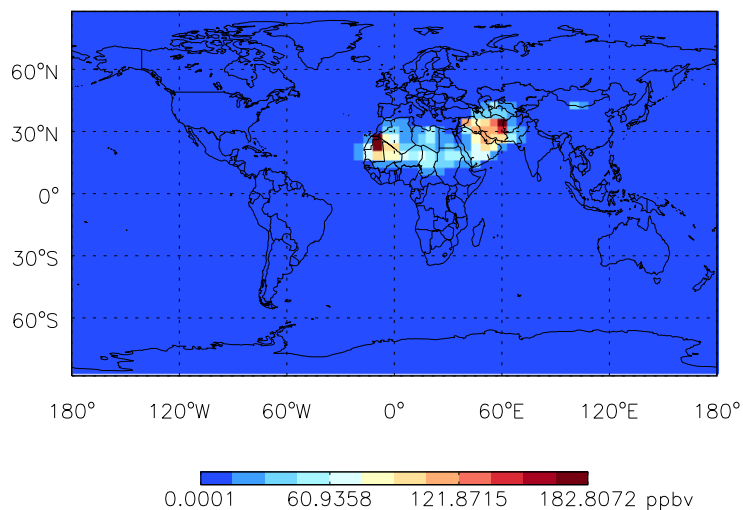
Tracer Map @ 500 hPa – DST2



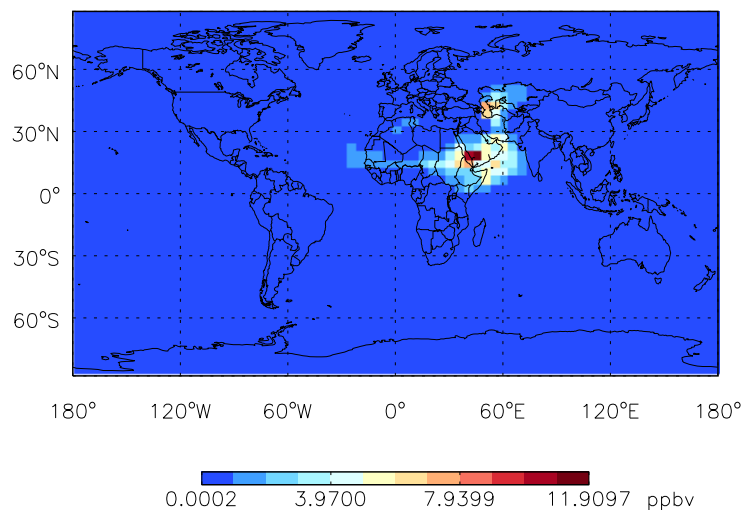
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

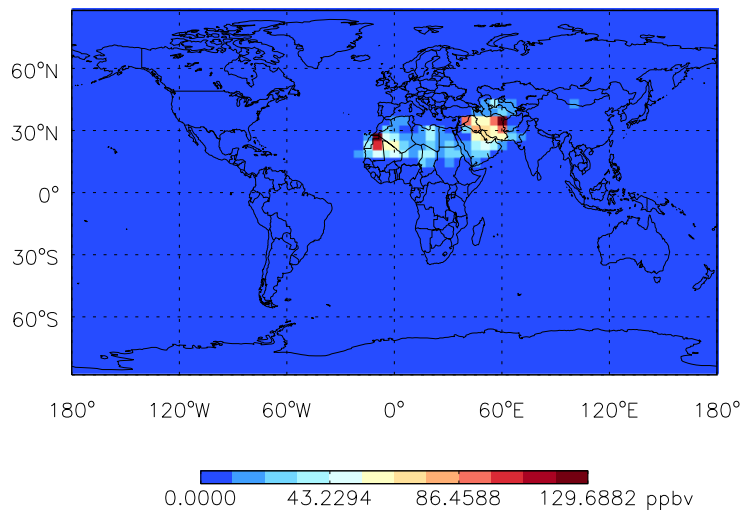
Tracer Map @ Surface – DST3



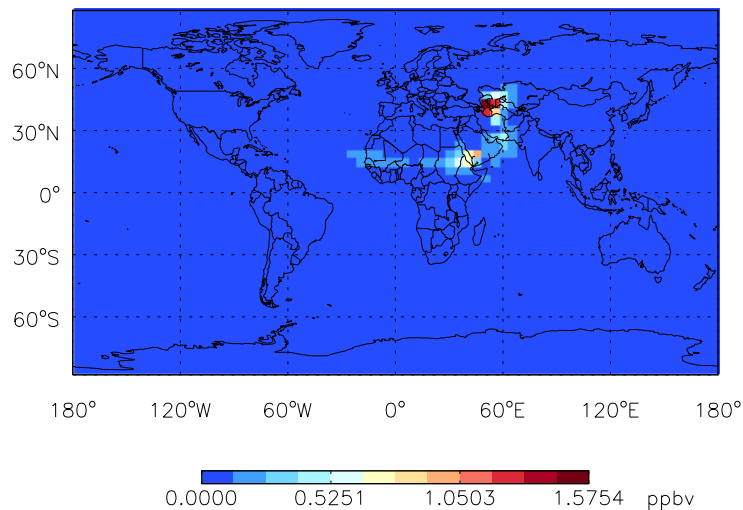
Tracer Map @ 500 hPa – DST3



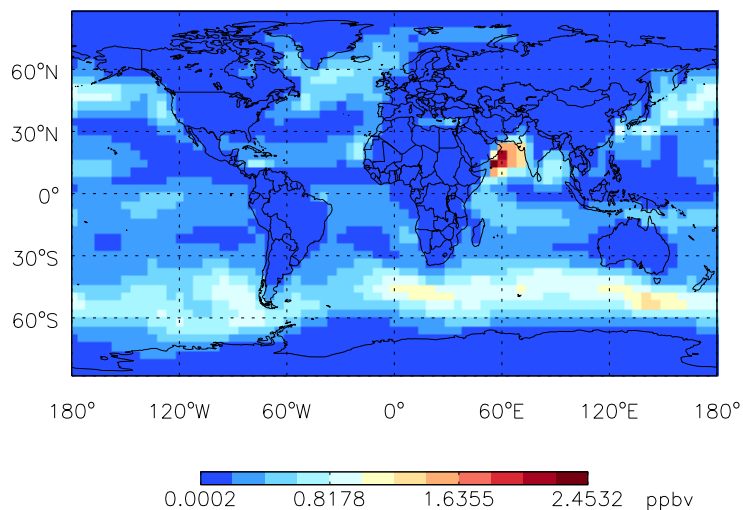
Tracer Map @ Surface – DST4



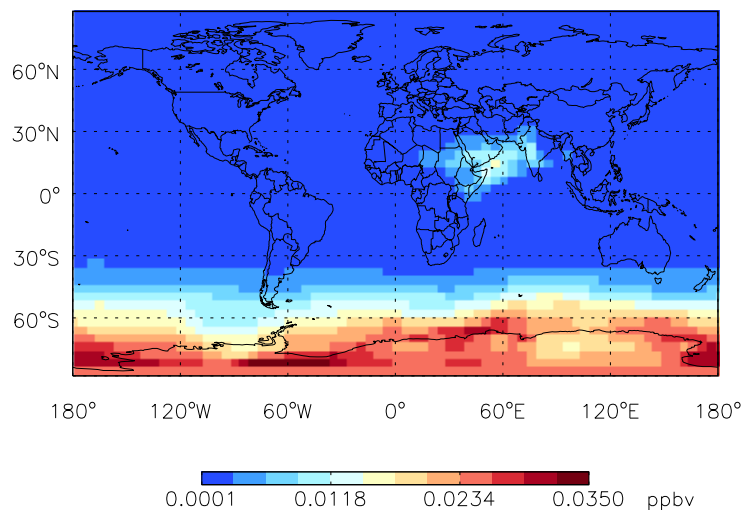
Tracer Map @ 500 hPa – DST4



Tracer Map @ Surface – SALA



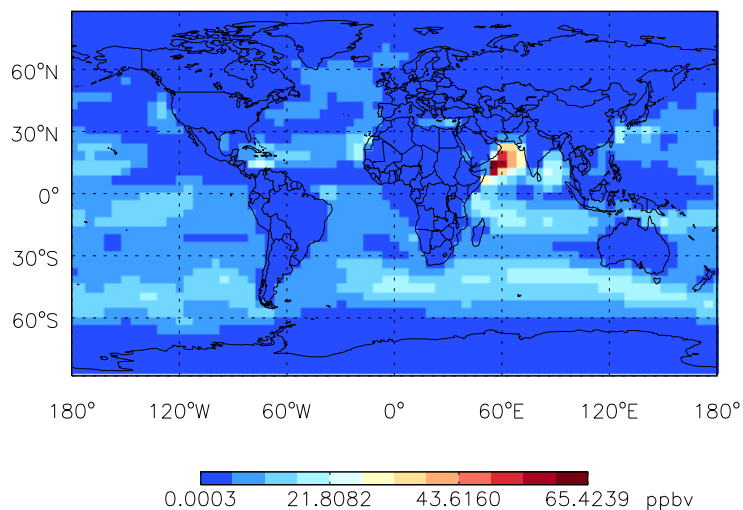
Tracer Map @ 500 hPa – SALA



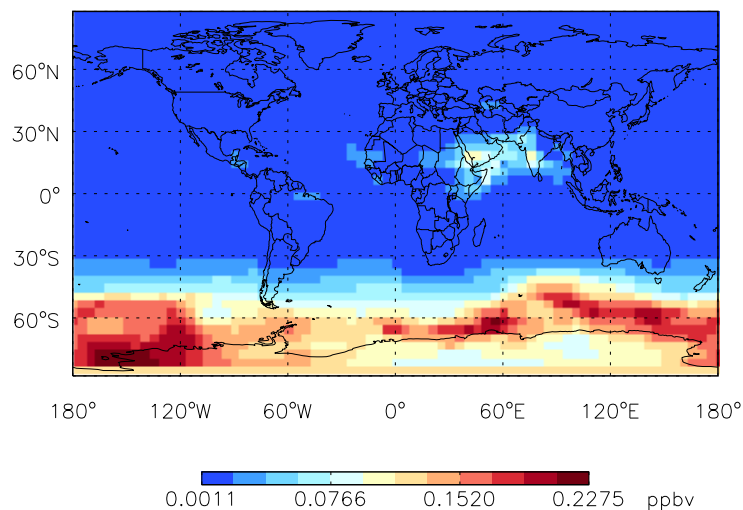
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

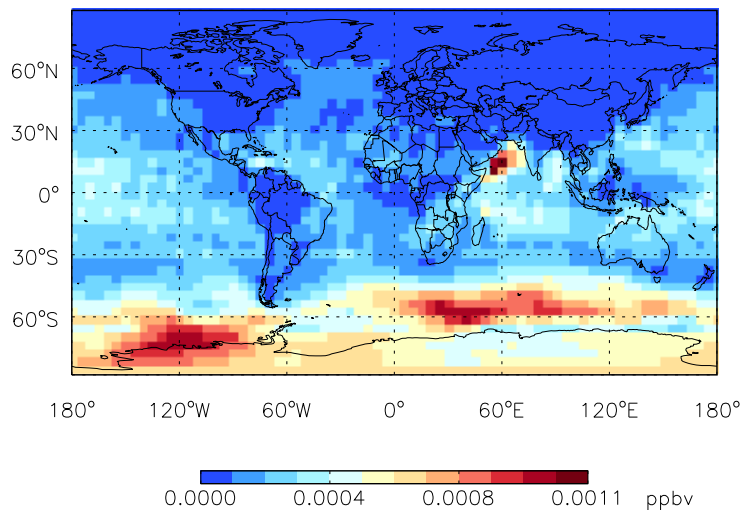
Tracer Map @ Surface – SALC



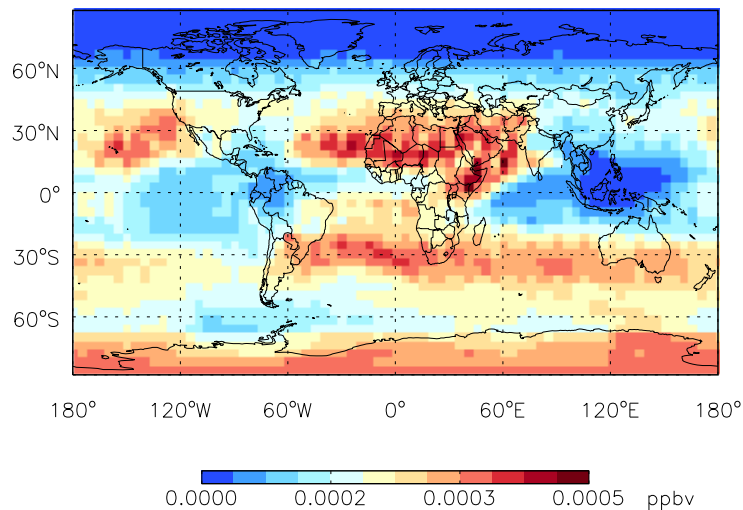
Tracer Map @ 500 hPa – SALC



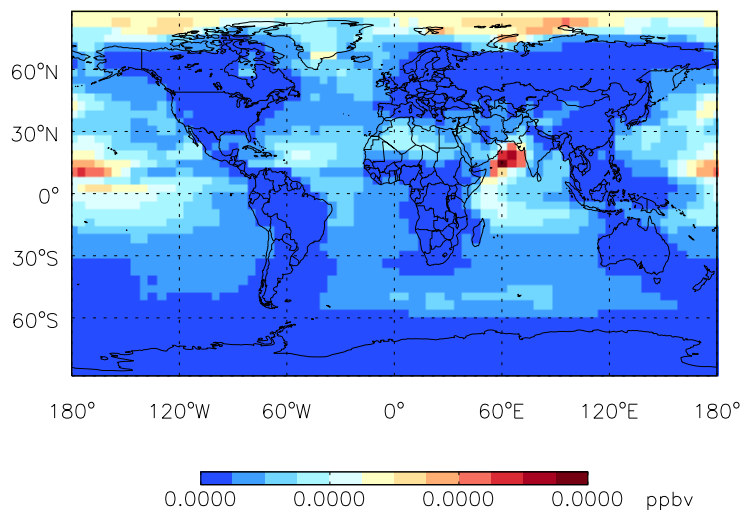
Tracer Map @ Surface – Br2



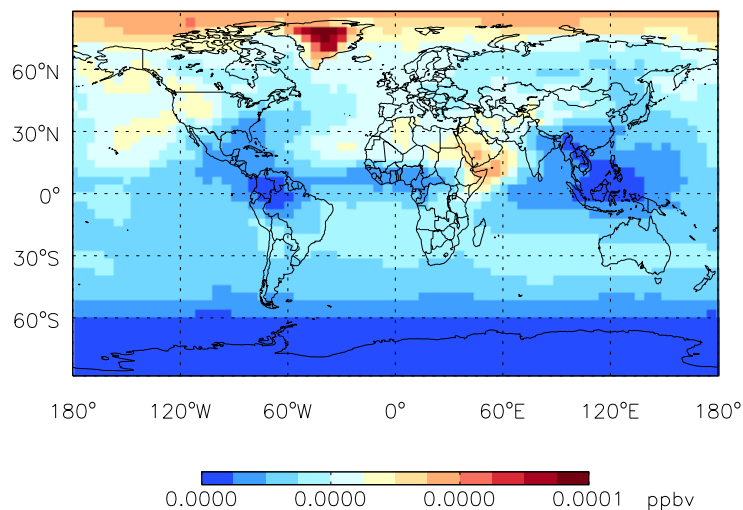
Tracer Map @ 500 hPa – Br2



Tracer Map @ Surface – Br



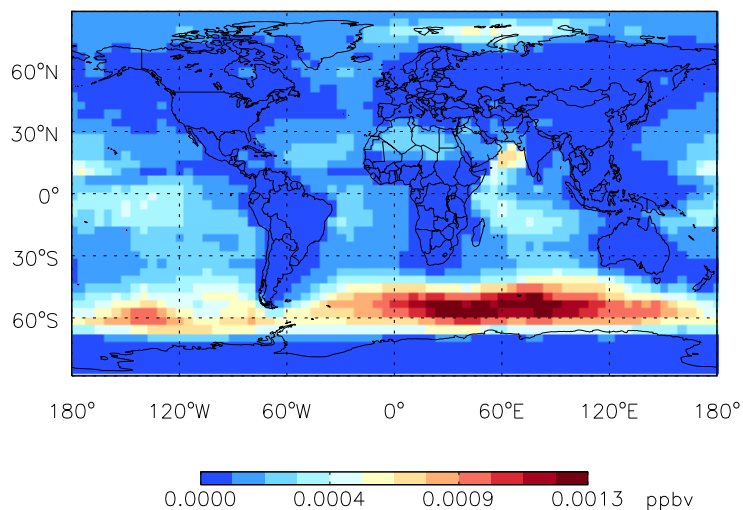
Tracer Map @ 500 hPa – Br



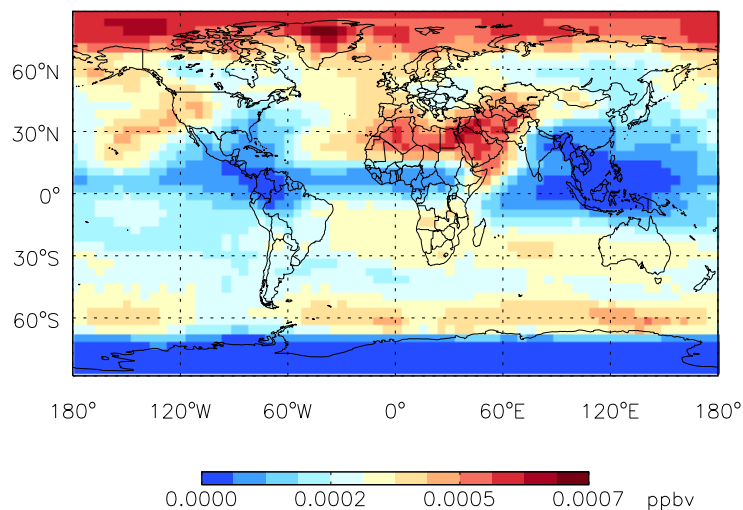
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

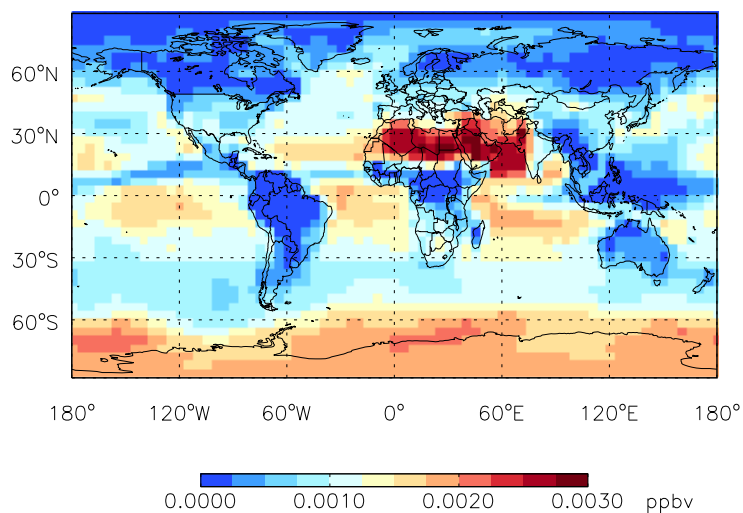
Tracer Map @ Surface – BrO



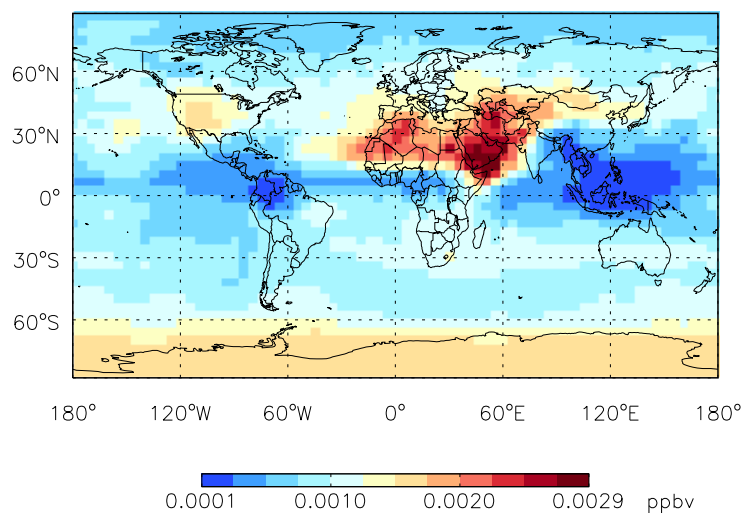
Tracer Map @ 500 hPa – BrO



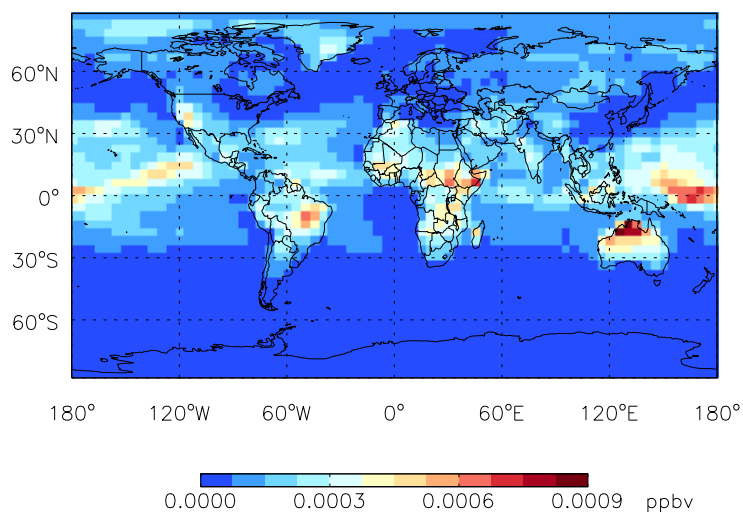
Tracer Map @ Surface – HOBr



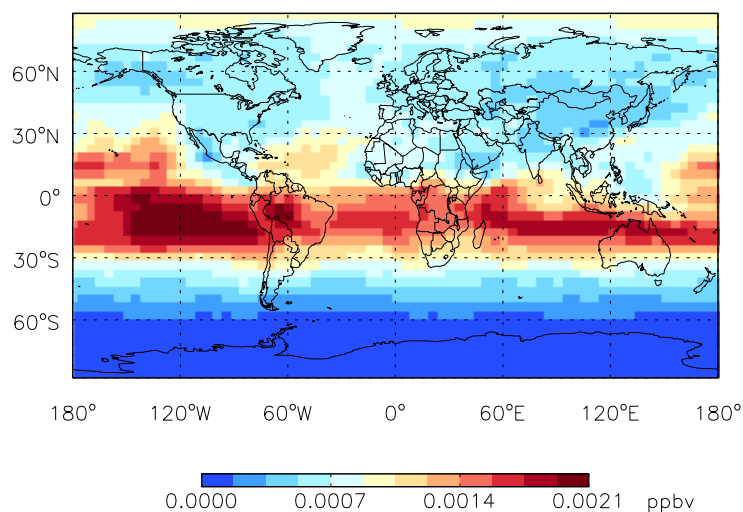
Tracer Map @ 500 hPa – HOBr



Tracer Map @ Surface – HBr



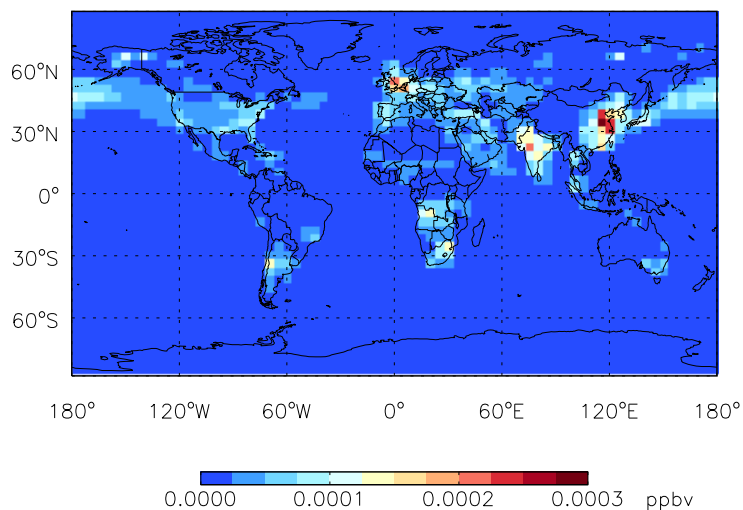
Tracer Map @ 500 hPa – HBr



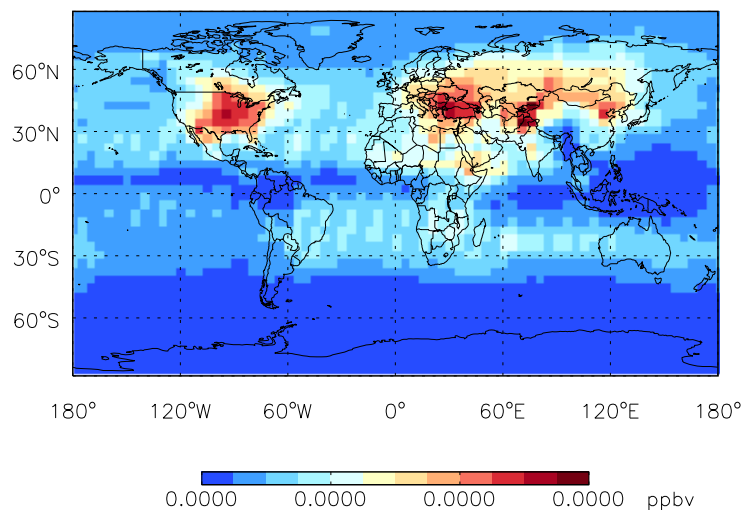
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

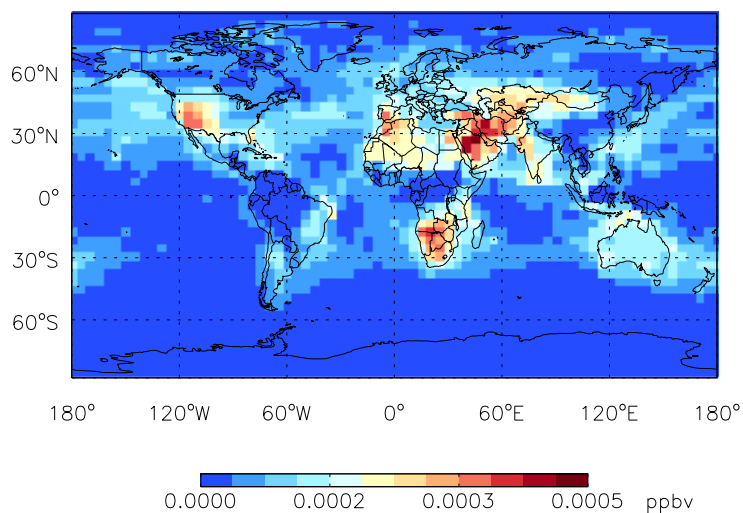
Tracer Map @ Surface – BrNO₂



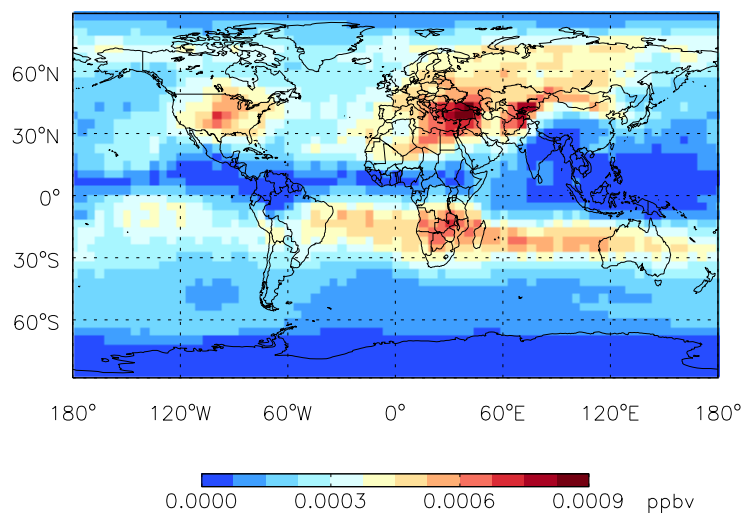
Tracer Map @ 500 hPa – BrNO₂



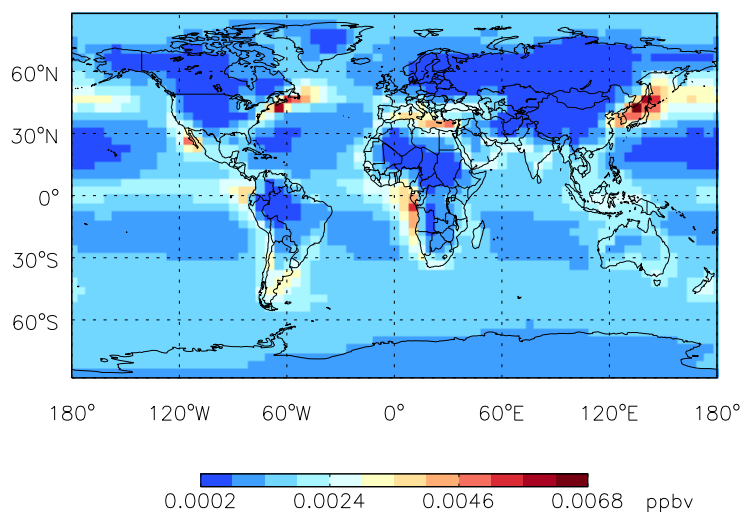
Tracer Map @ Surface – BrNO₃



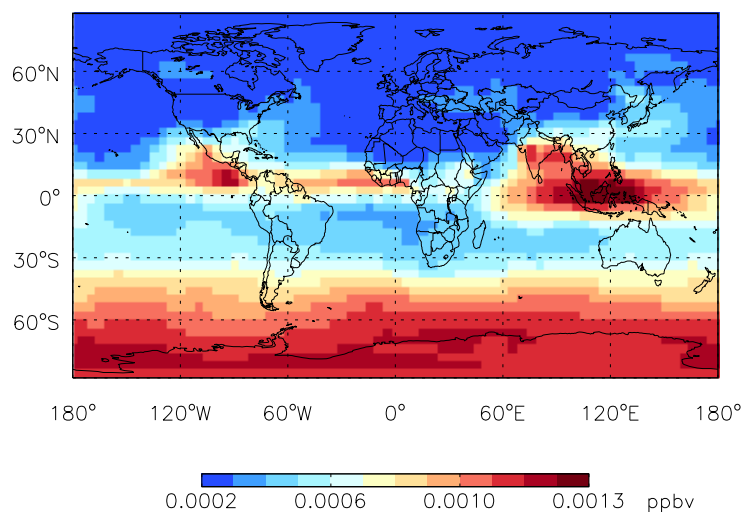
Tracer Map @ 500 hPa – BrNO₃



Tracer Map @ Surface – CHBr₃



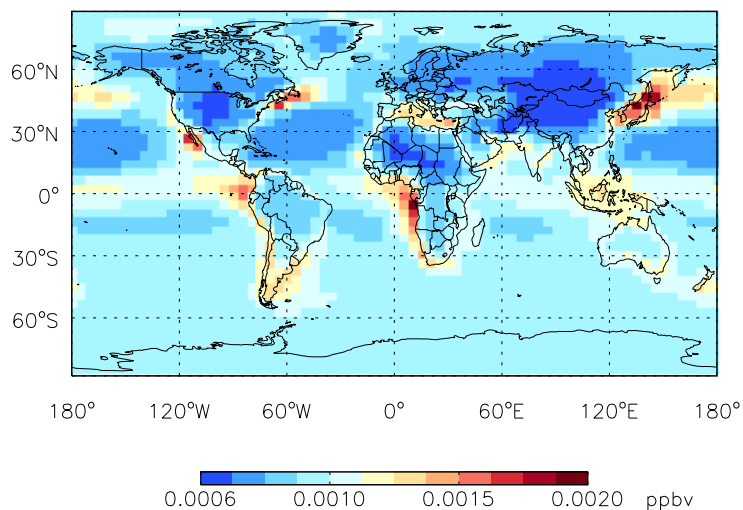
Tracer Map @ 500 hPa – CHBr₃



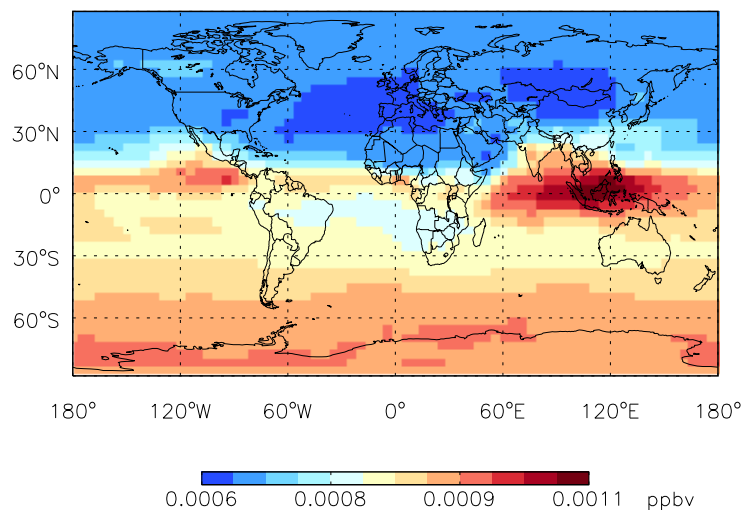
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

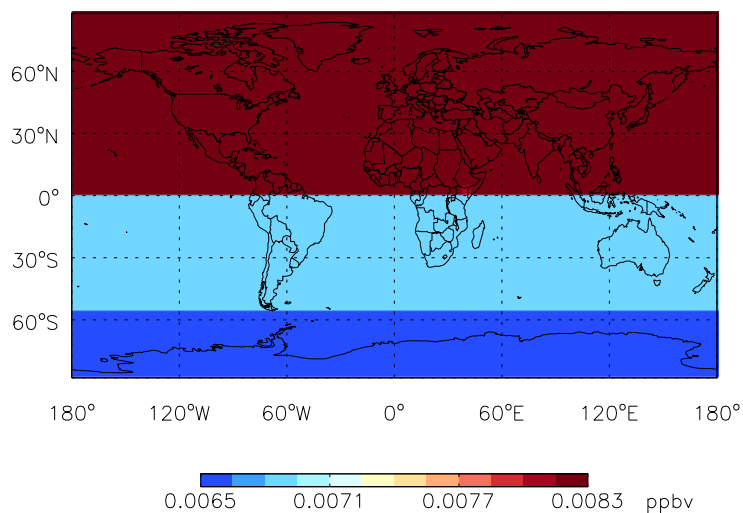
Tracer Map @ Surface - CH₂Br₂



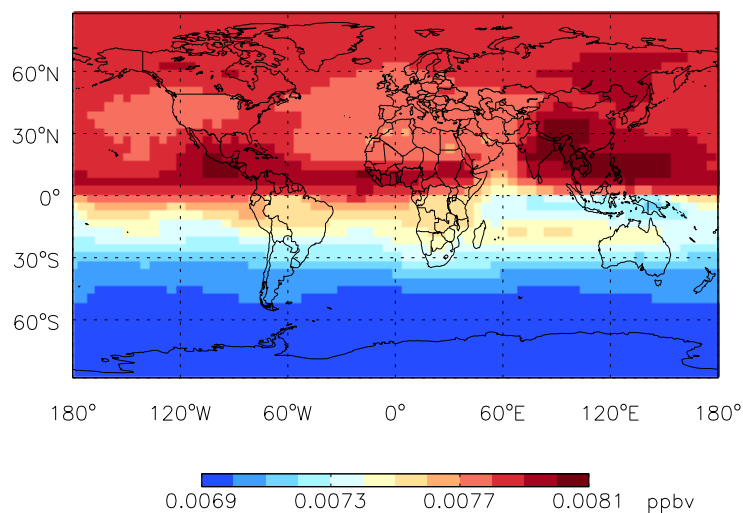
Tracer Map @ 500 hPa - CH₂Br₂



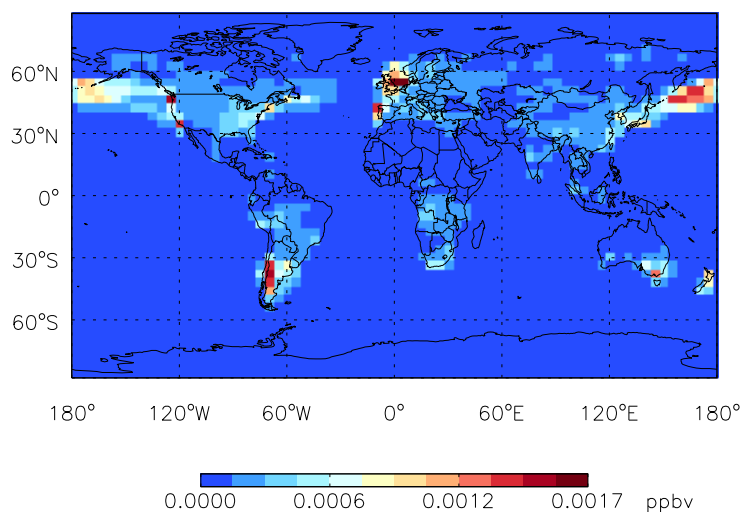
Tracer Map @ Surface - CH₃Br



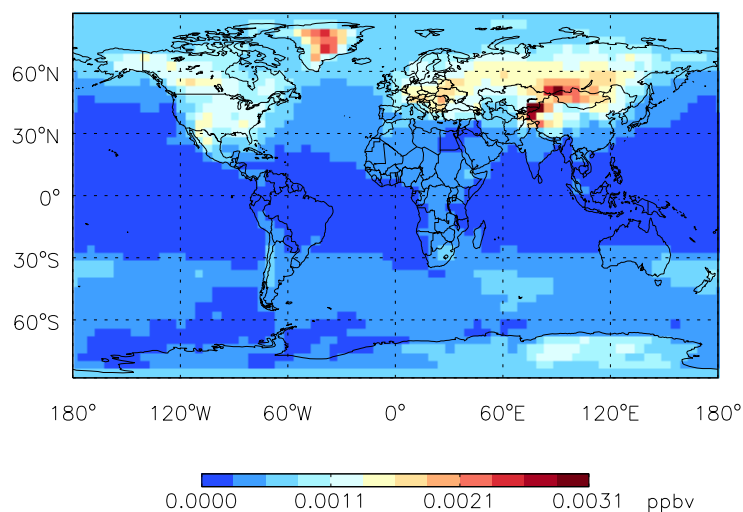
Tracer Map @ 500 hPa - CH₃Br



Tracer Map @ Surface - MPN



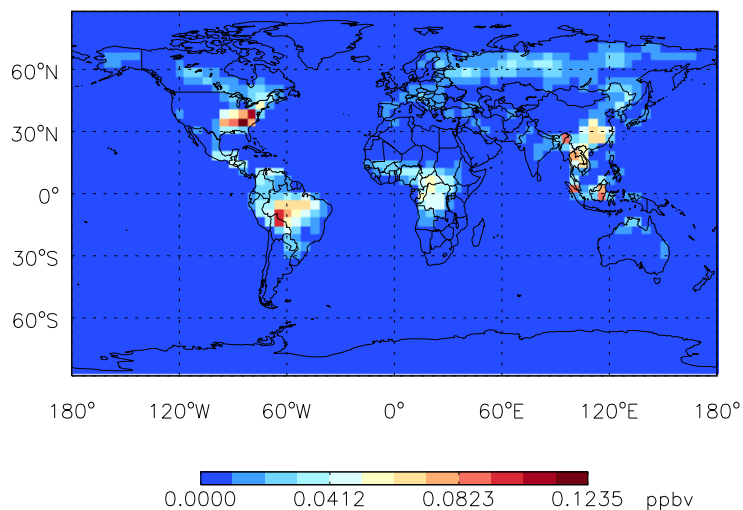
Tracer Map @ 500 hPa - MPN



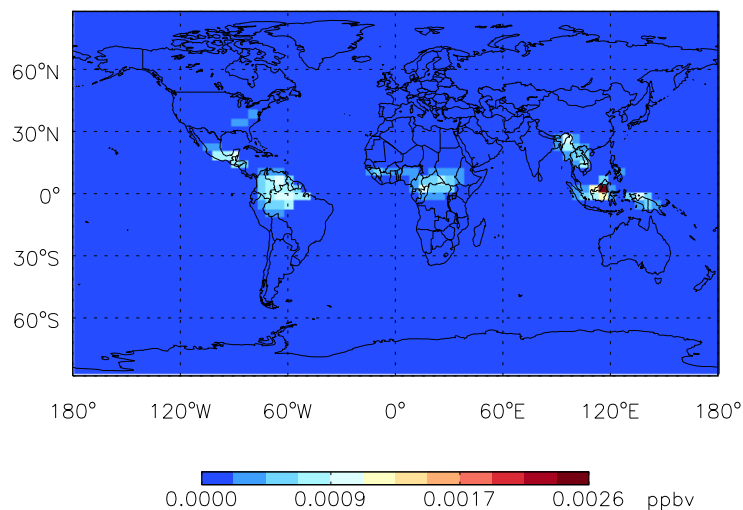
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

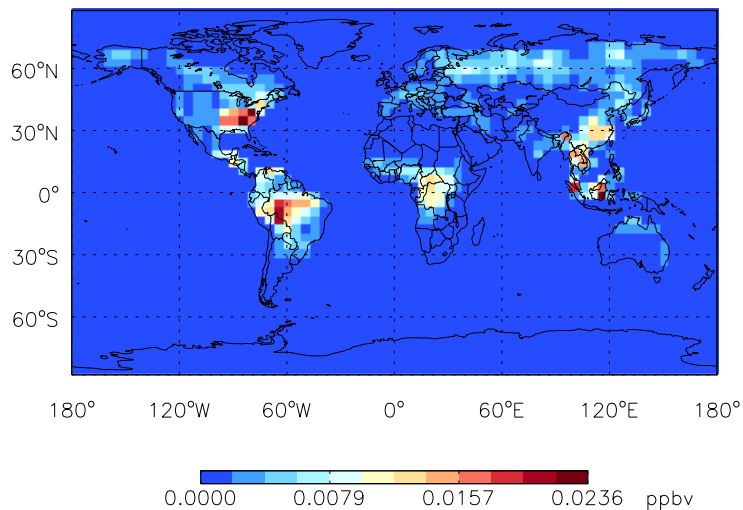
Tracer Map @ Surface – ISOPN



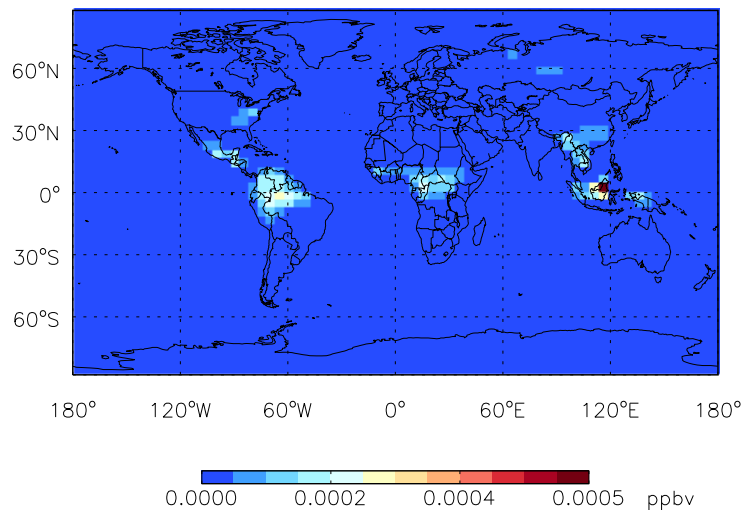
Tracer Map @ 500 hPa – ISOPN



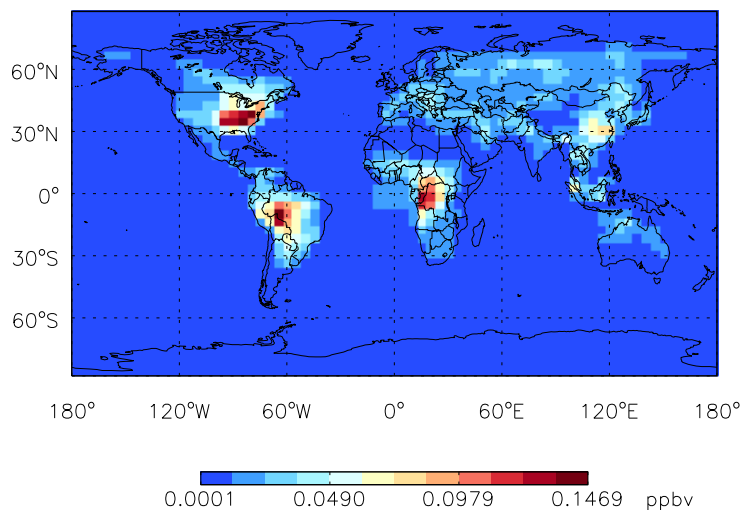
Tracer Map @ Surface – MOBA



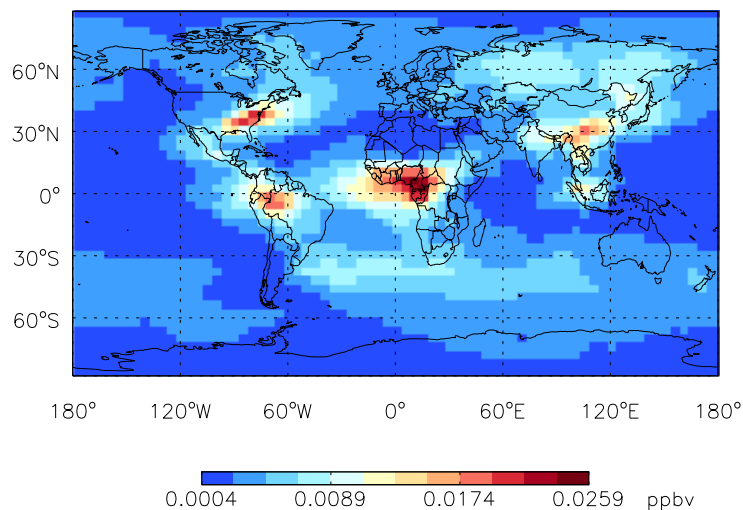
Tracer Map @ 500 hPa – MOBA



Tracer Map @ Surface – PROPNN



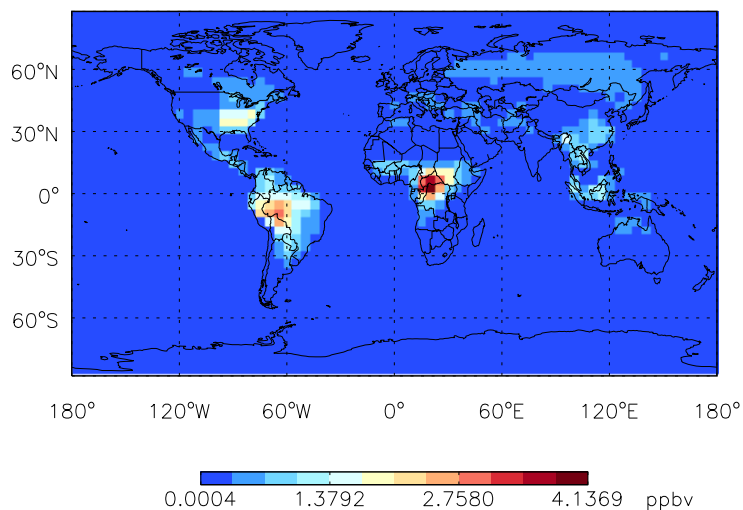
Tracer Map @ 500 hPa – PROPNN



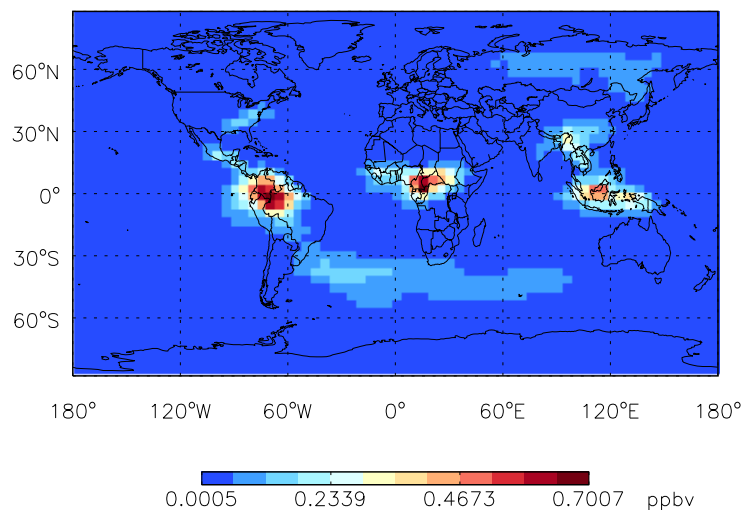
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

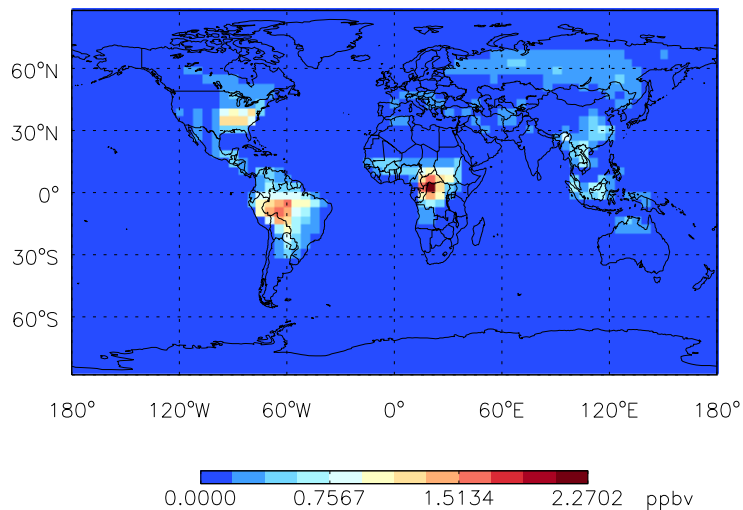
Tracer Map @ Surface – HAC



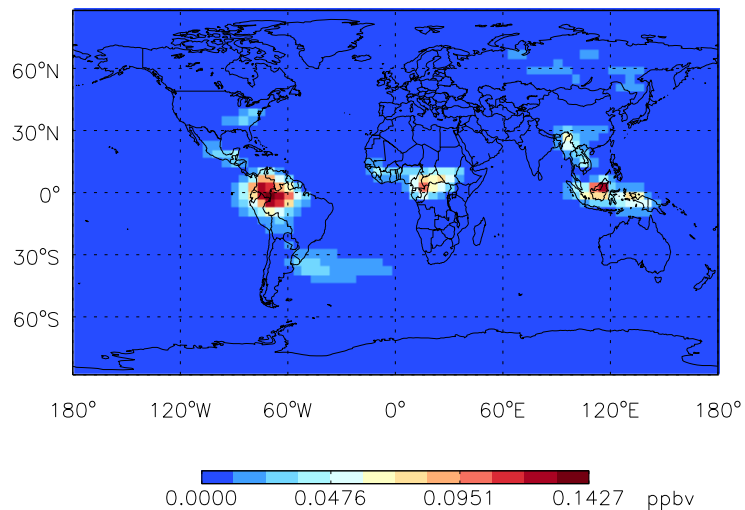
Tracer Map @ 500 hPa – HAC



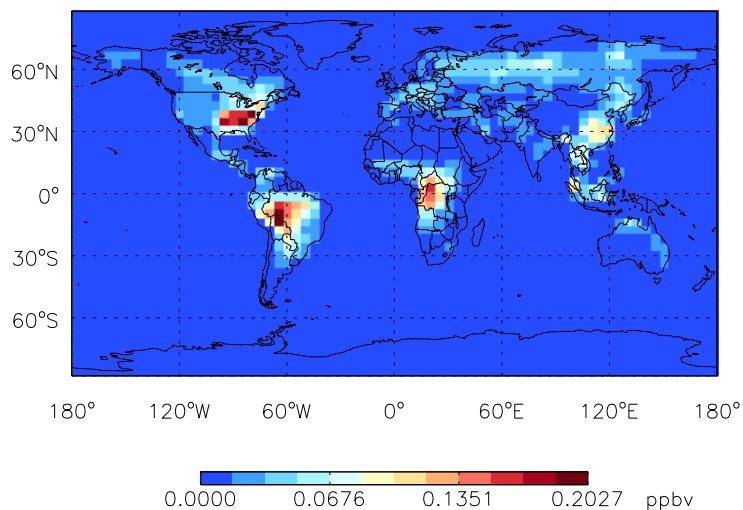
Tracer Map @ Surface – GLYC



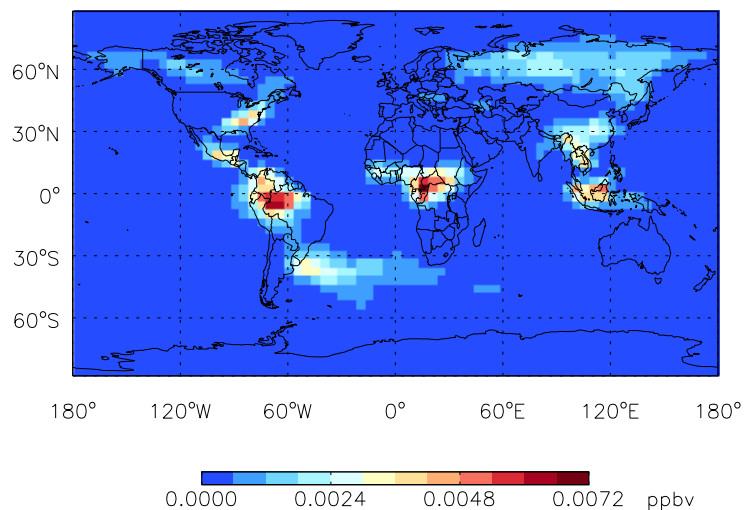
Tracer Map @ 500 hPa – GLYC



Tracer Map @ Surface – MMN



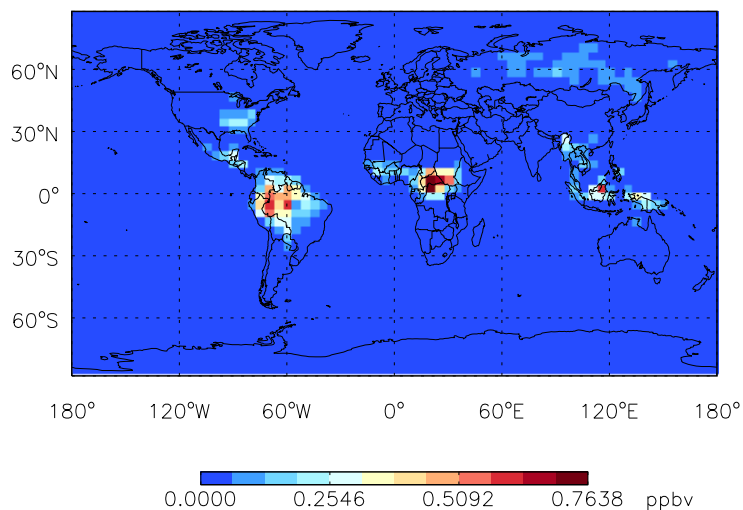
Tracer Map @ 500 hPa – MMN



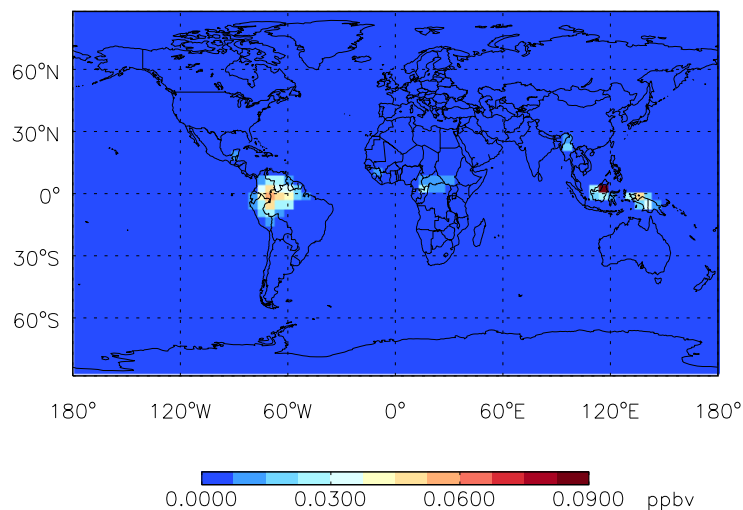
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

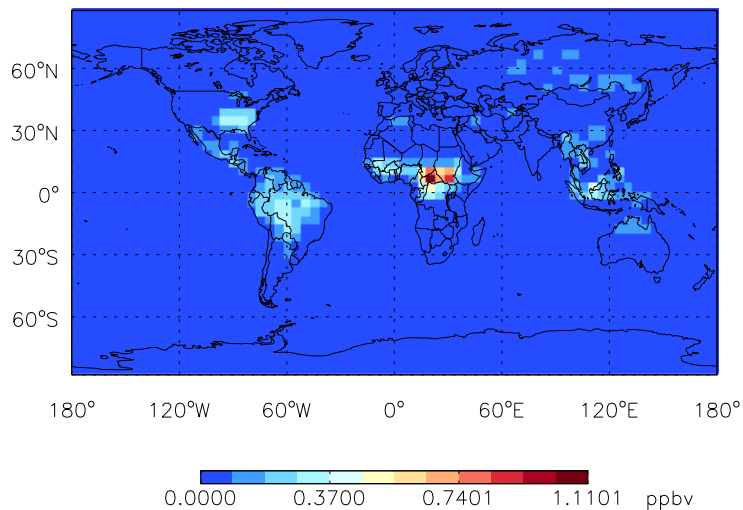
Tracer Map @ Surface – RIP



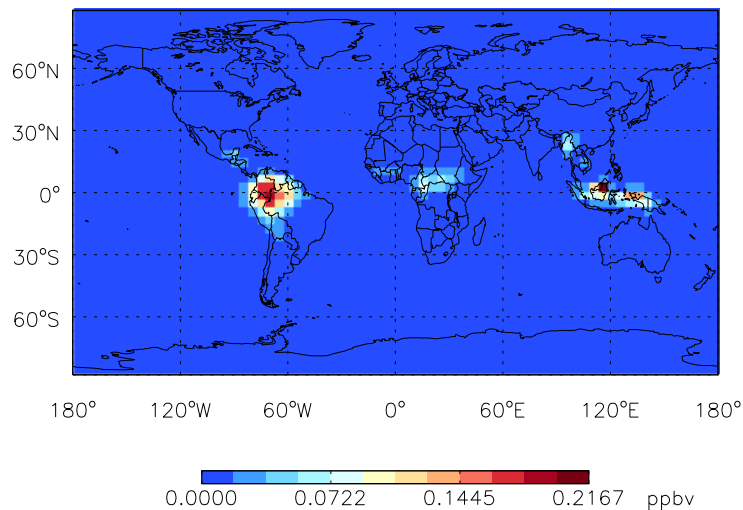
Tracer Map @ 500 hPa – RIP



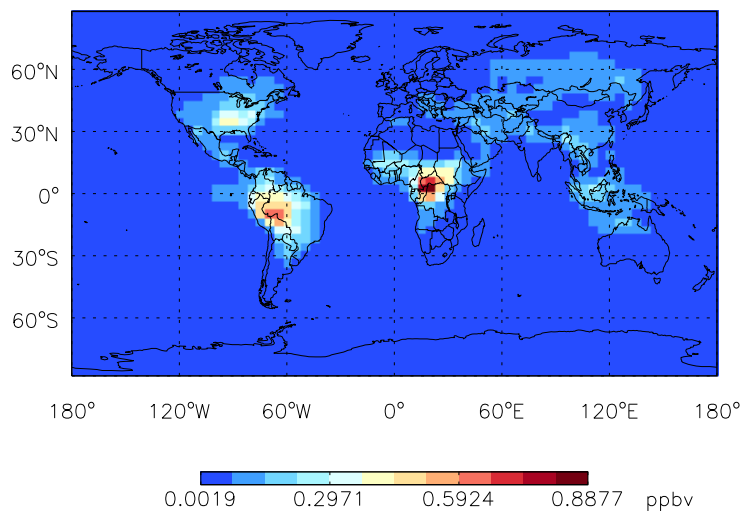
Tracer Map @ Surface – IEPOX



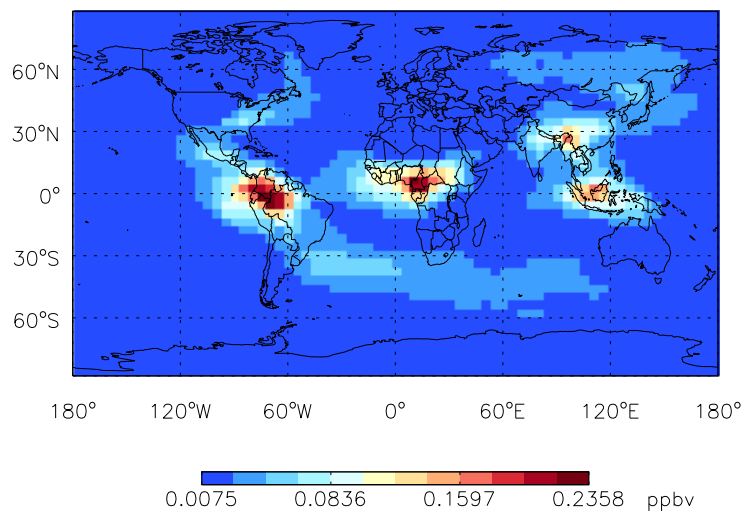
Tracer Map @ 500 hPa – IEPOX



Tracer Map @ Surface – MAP



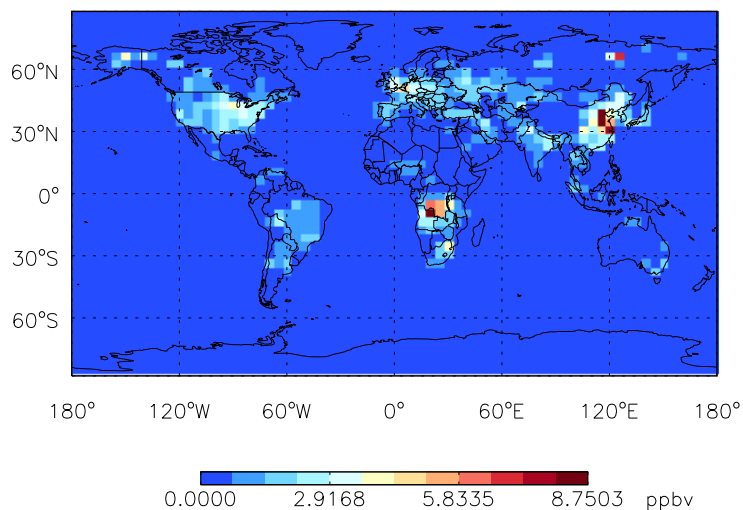
Tracer Map @ 500 hPa – MAP



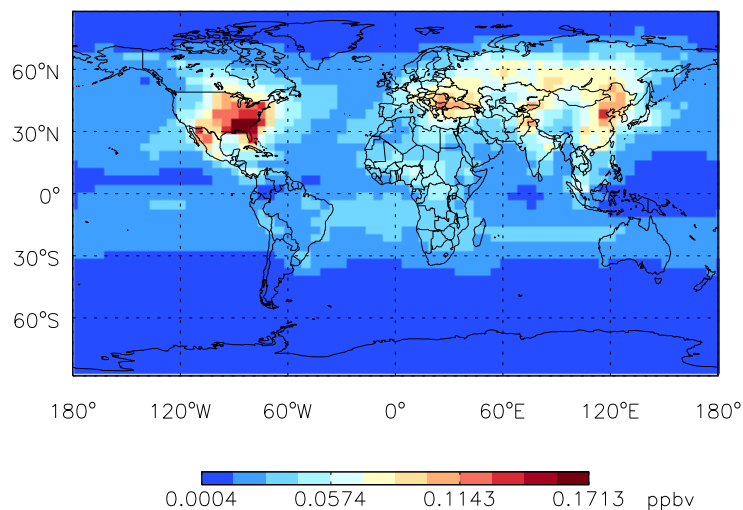
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

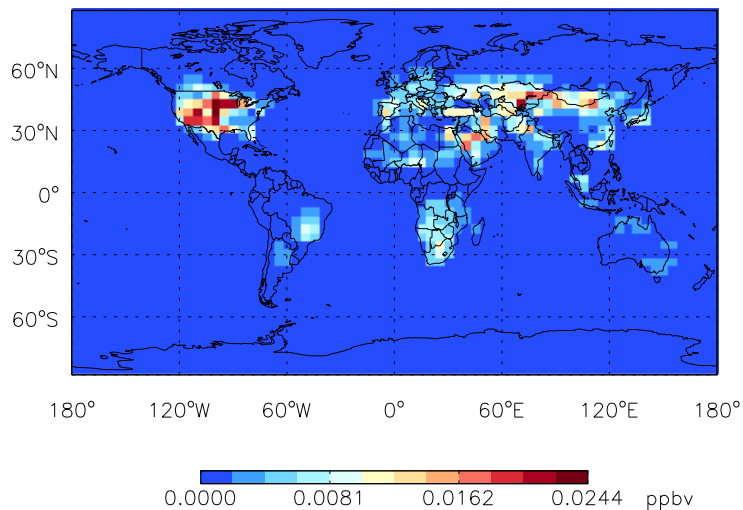
Tracer Map @ Surface - NO2



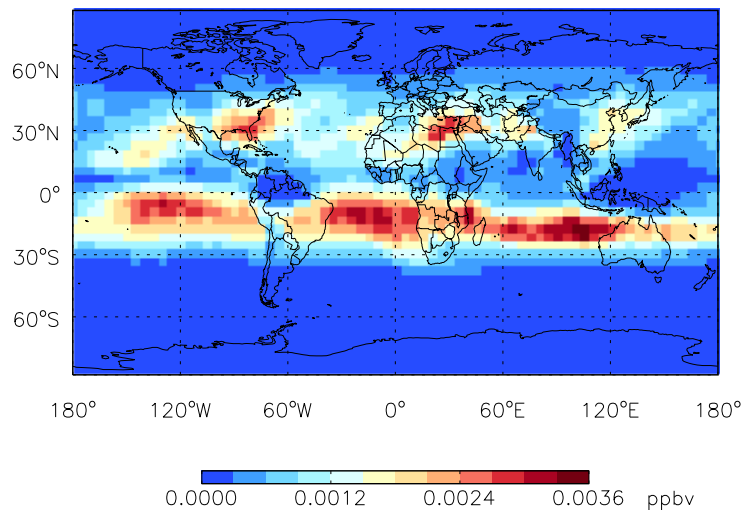
Tracer Map @ 500 hPa - NO2



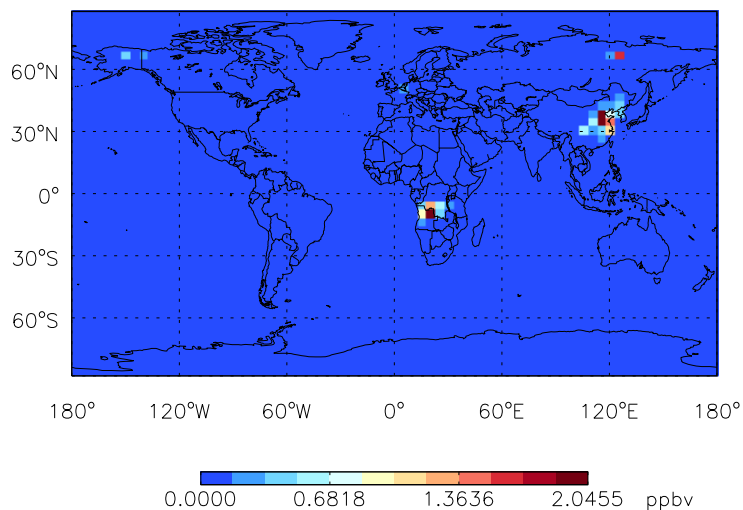
Tracer Map @ Surface - NO3



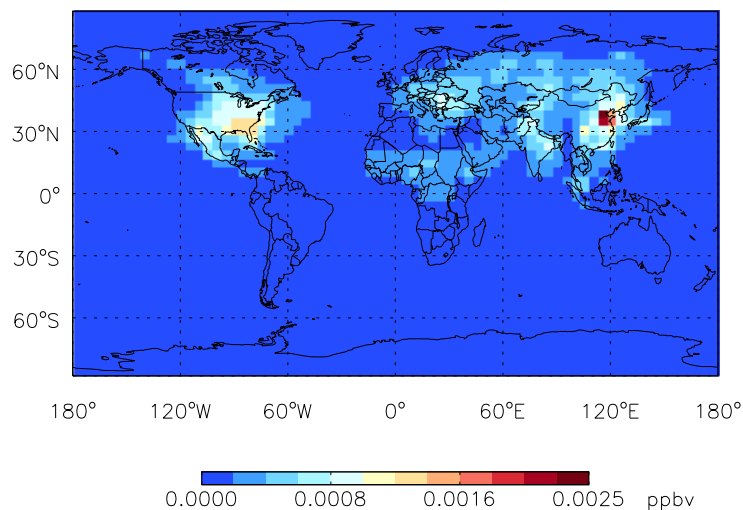
Tracer Map @ 500 hPa - NO3



Tracer Map @ Surface - HNO2



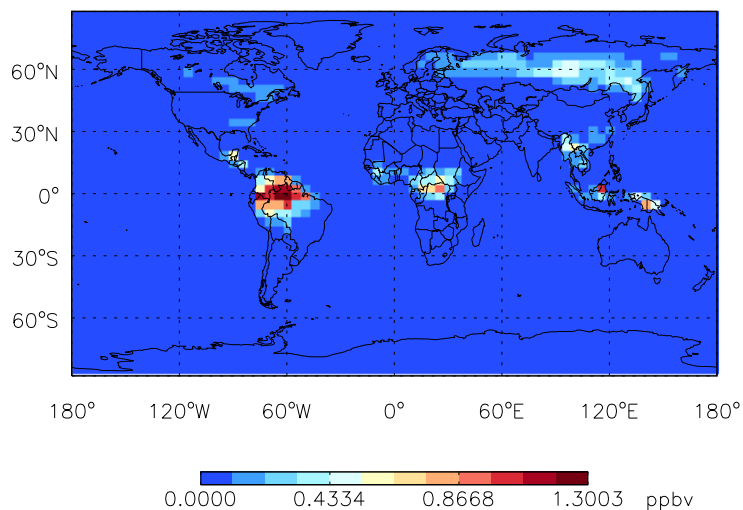
Tracer Map @ 500 hPa - HNO2



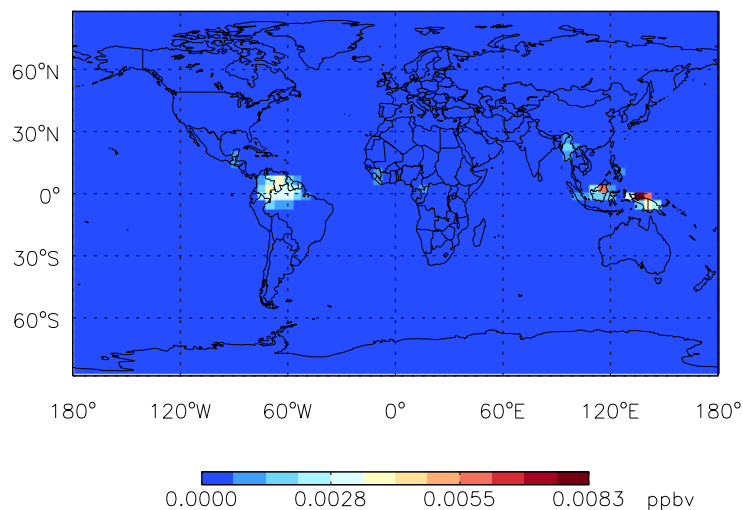
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

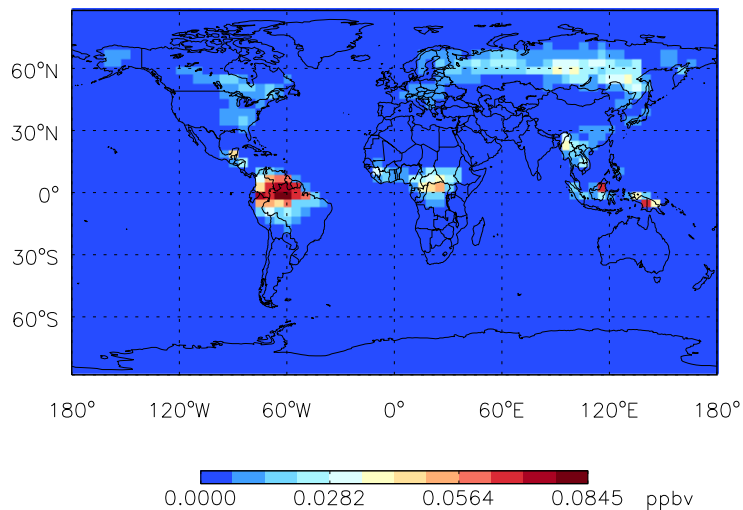
Tracer Map @ Surface – MTPA



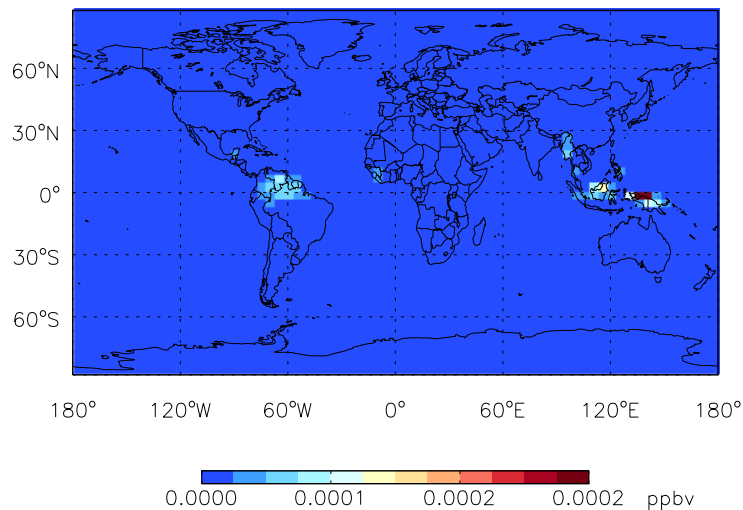
Tracer Map @ 500 hPa – MTPA



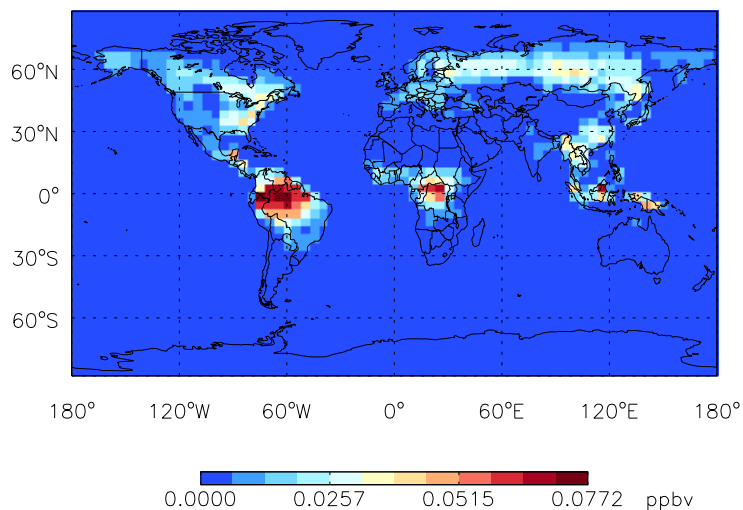
Tracer Map @ Surface – LIMO



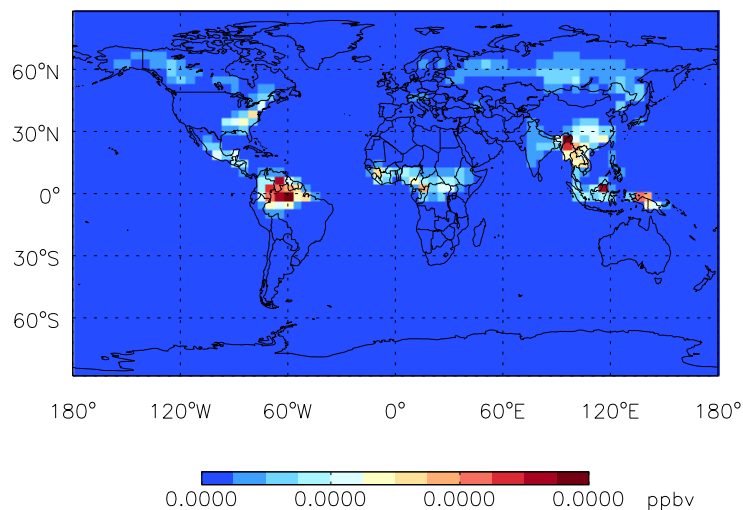
Tracer Map @ 500 hPa – LIMO



Tracer Map @ Surface – MTPQ



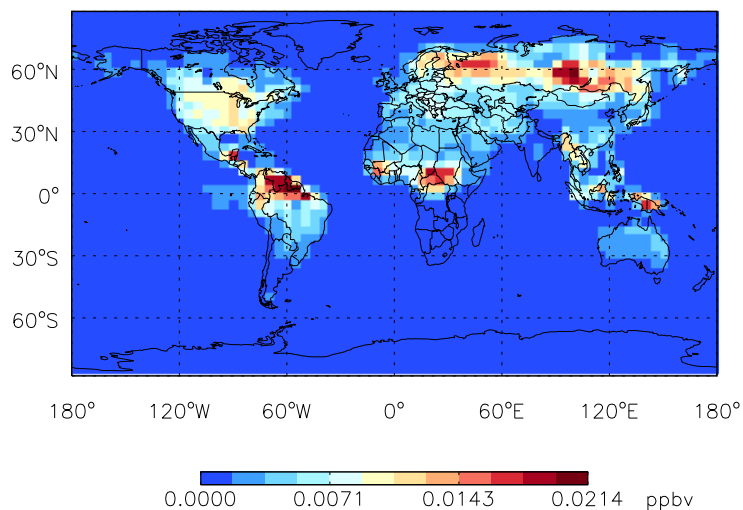
Tracer Map @ 500 hPa – MTPQ



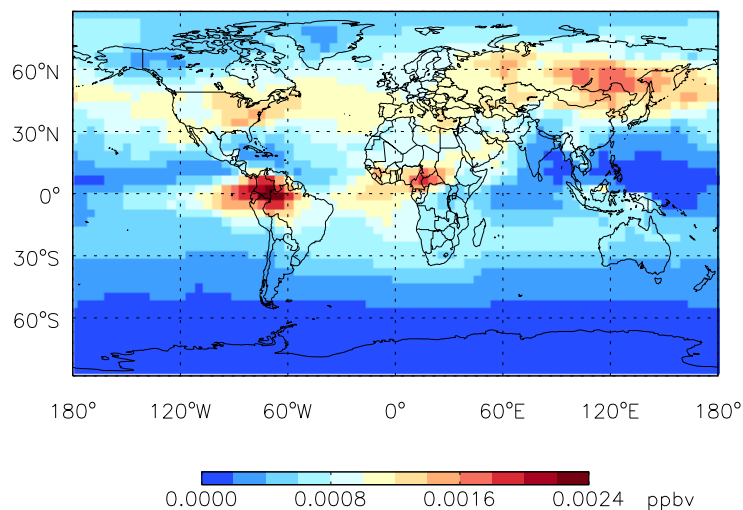
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

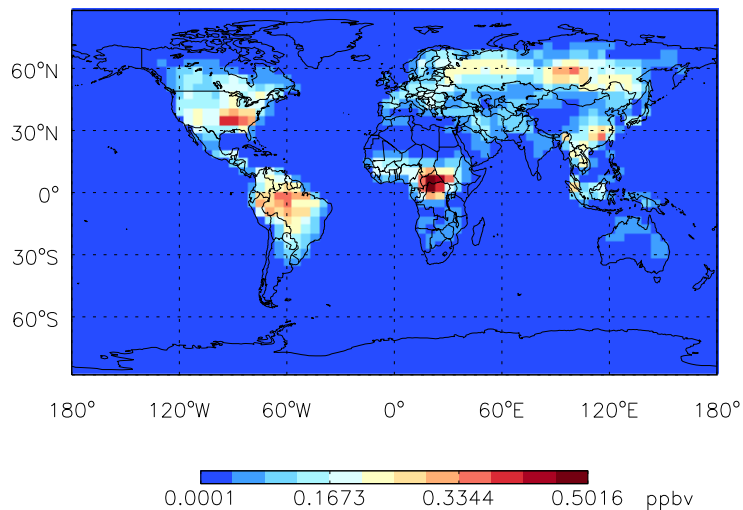
Tracer Map @ Surface – TSOG1



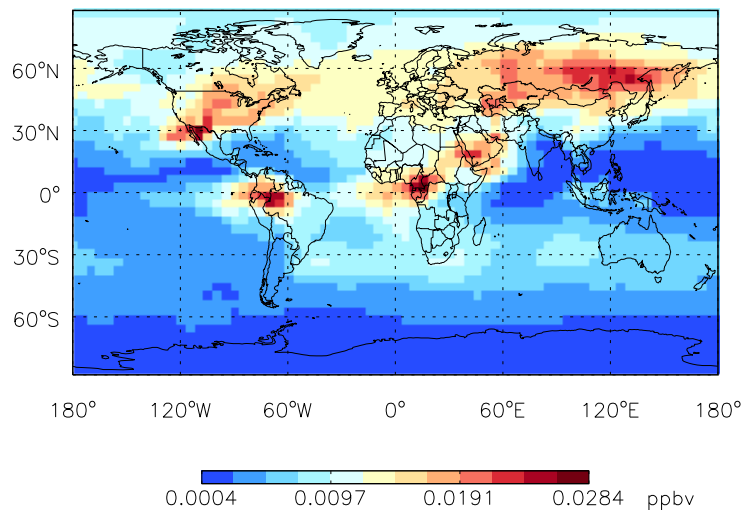
Tracer Map @ 500 hPa – TSOG1



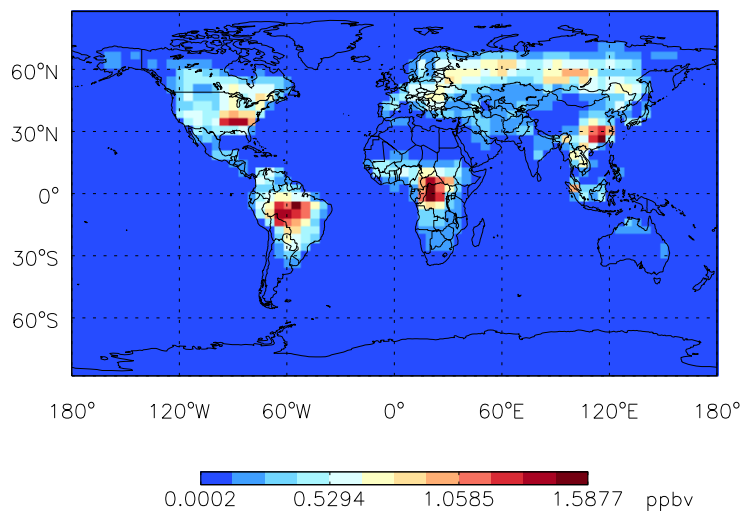
Tracer Map @ Surface – TSOG2



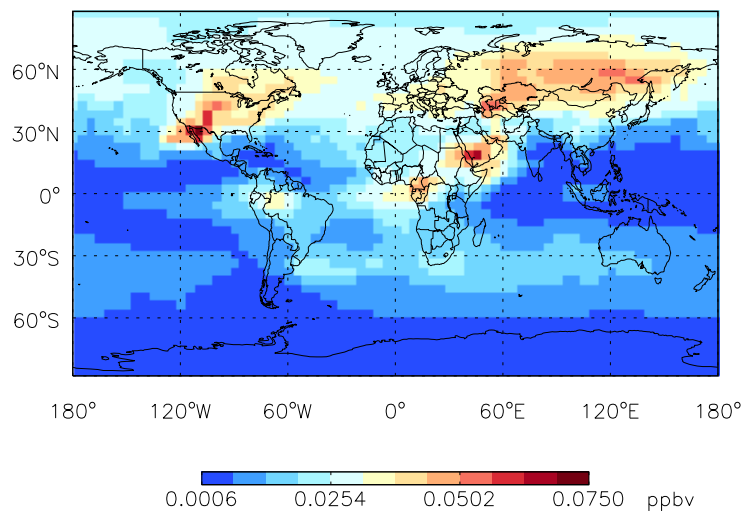
Tracer Map @ 500 hPa – TSOG2



Tracer Map @ Surface – TSOG3



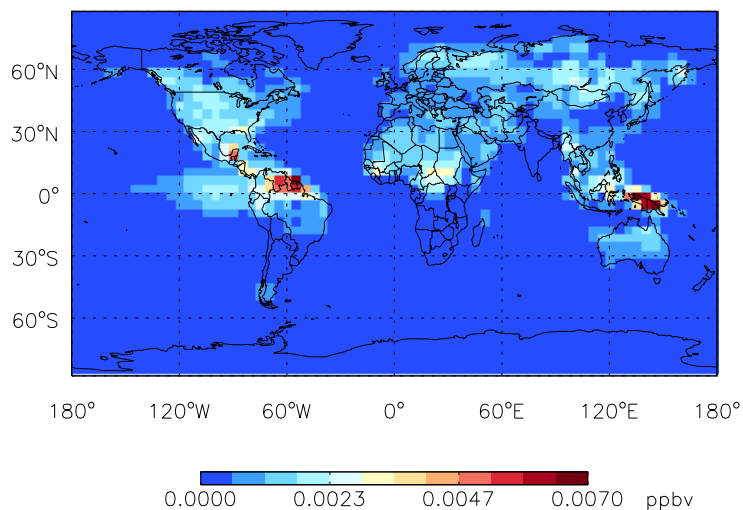
Tracer Map @ 500 hPa – TSOG3



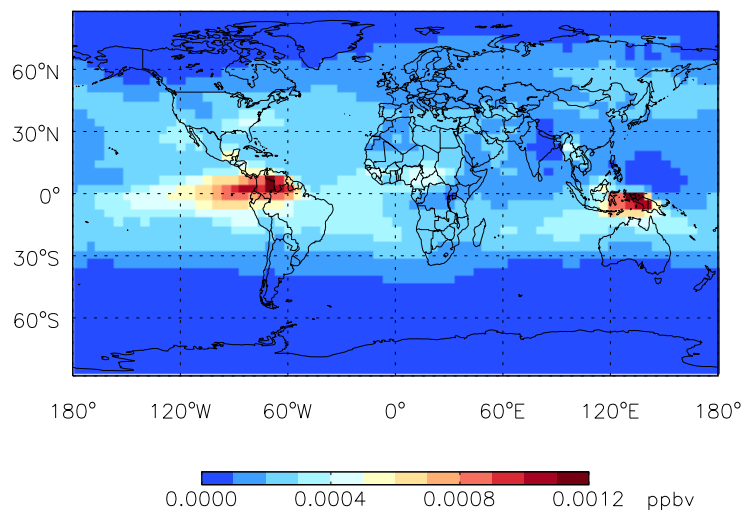
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

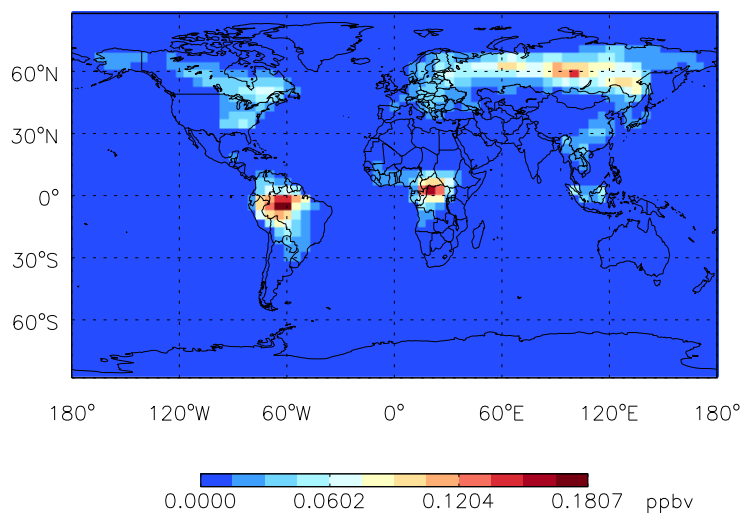
Tracer Map @ Surface – TSOG0



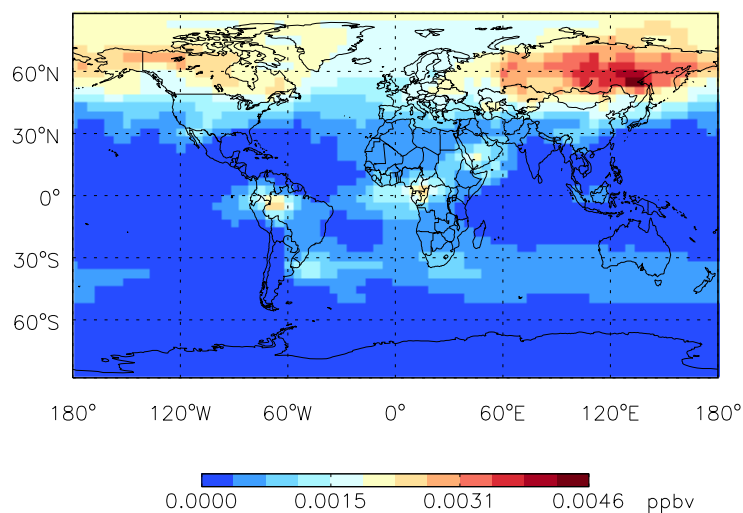
Tracer Map @ 500 hPa – TSOG0



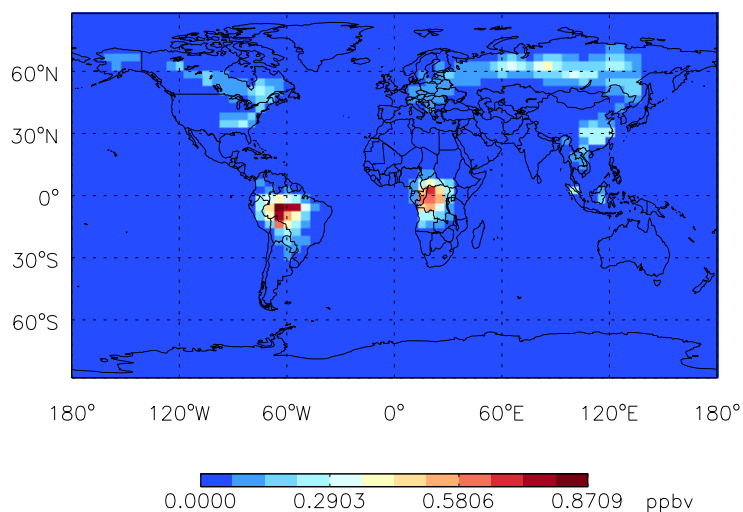
Tracer Map @ Surface – TSOA1



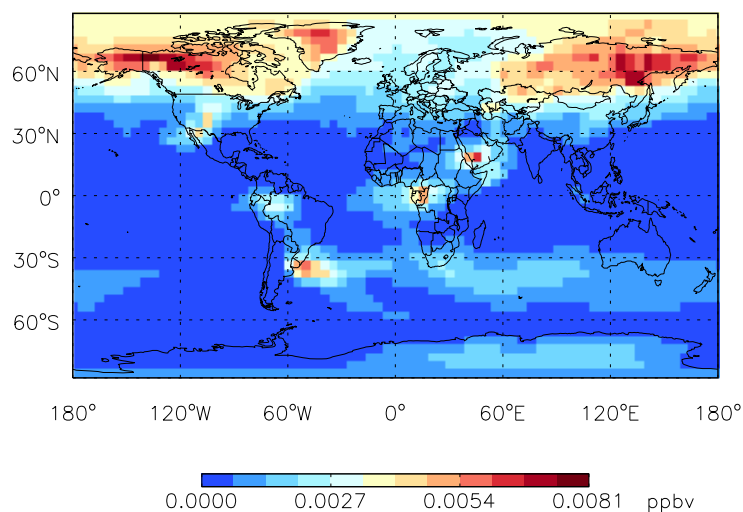
Tracer Map @ 500 hPa – TSOA1



Tracer Map @ Surface – TSOA2



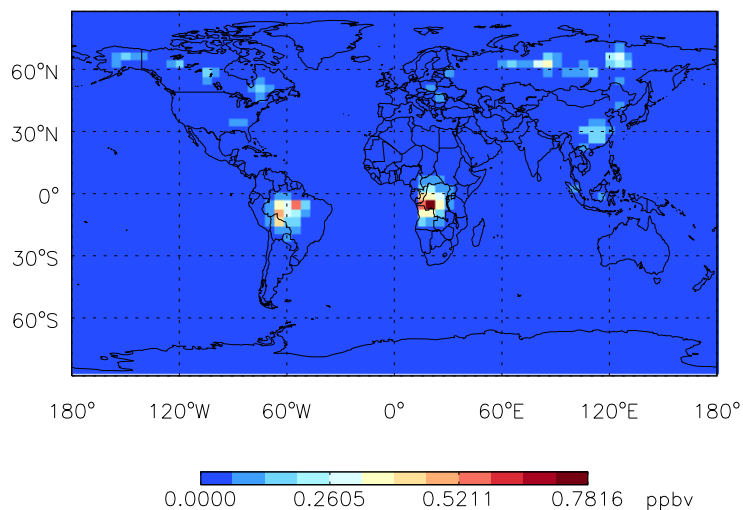
Tracer Map @ 500 hPa – TSOA2



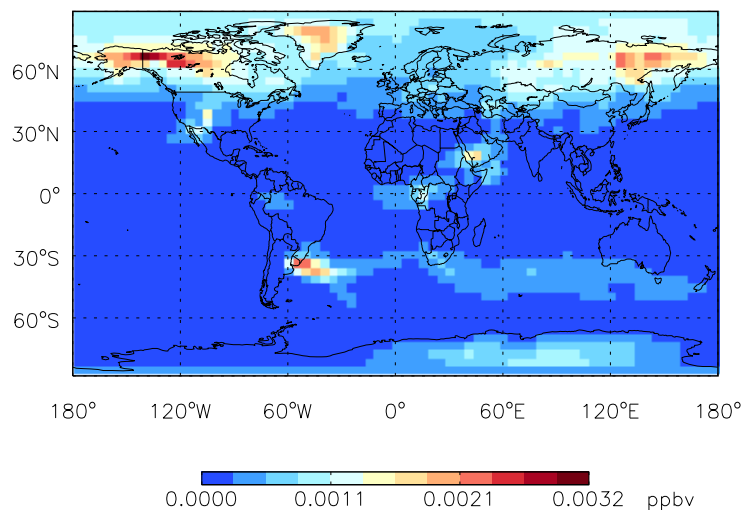
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

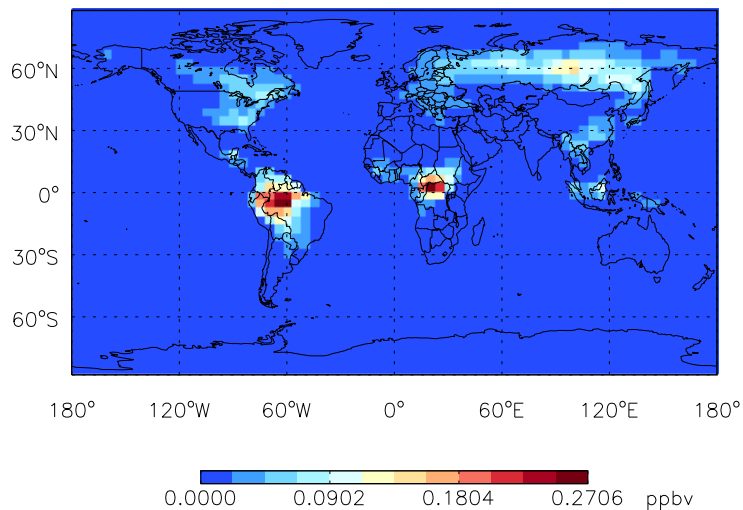
Tracer Map @ Surface – TSOA3



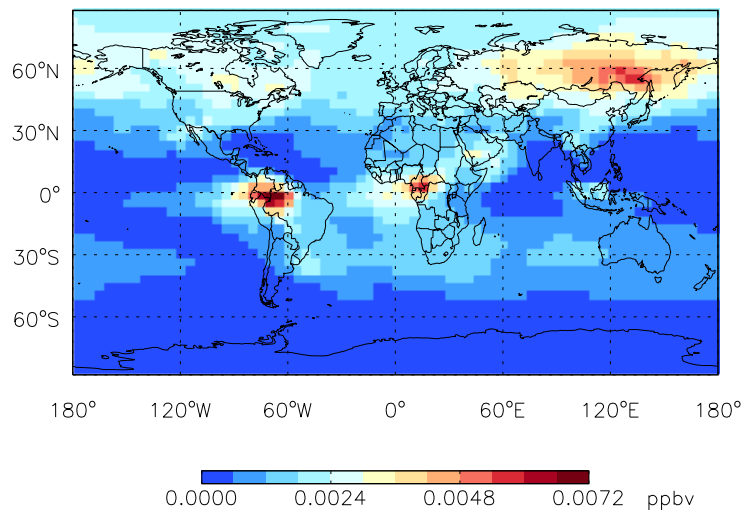
Tracer Map @ 500 hPa – TSOA3



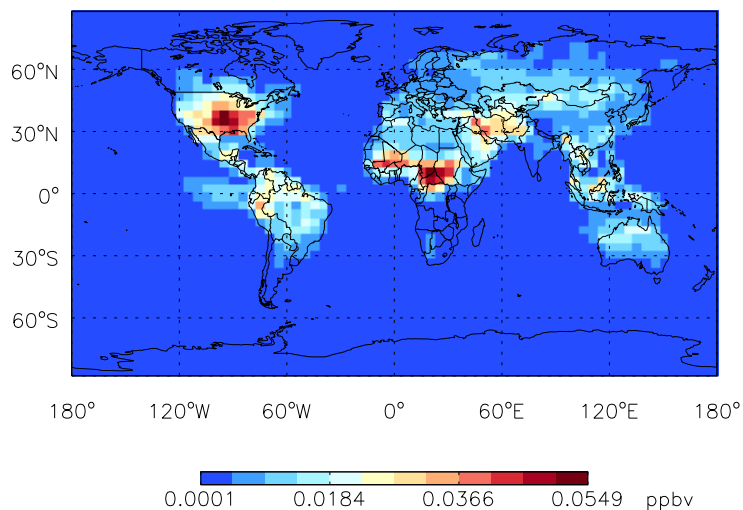
Tracer Map @ Surface – TSOA0



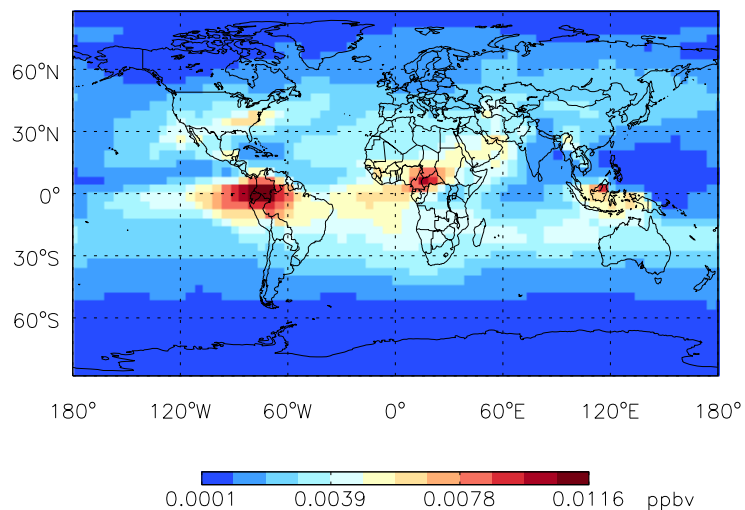
Tracer Map @ 500 hPa – TSOA0



Tracer Map @ Surface – ISOG1



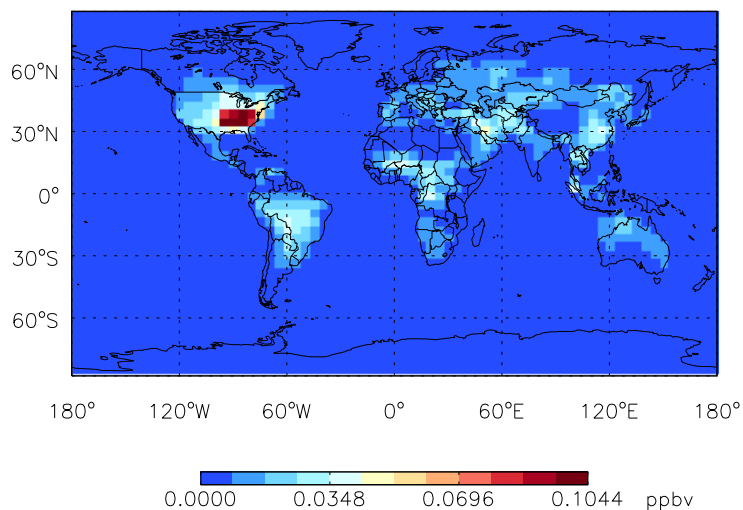
Tracer Map @ 500 hPa – ISOG1



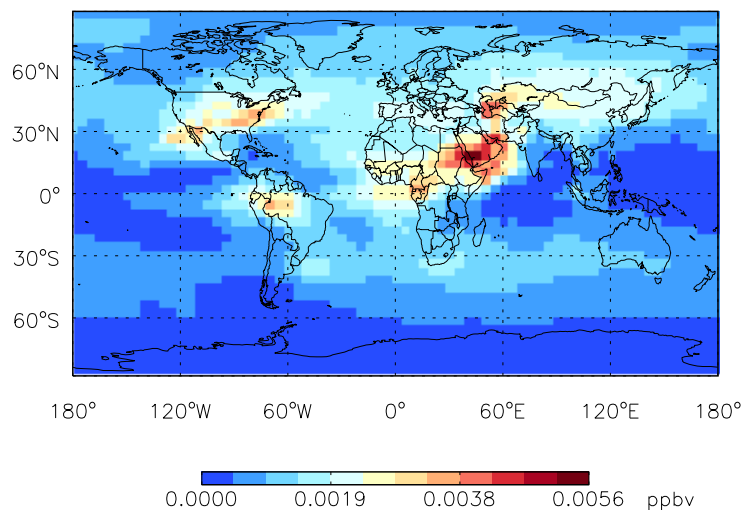
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

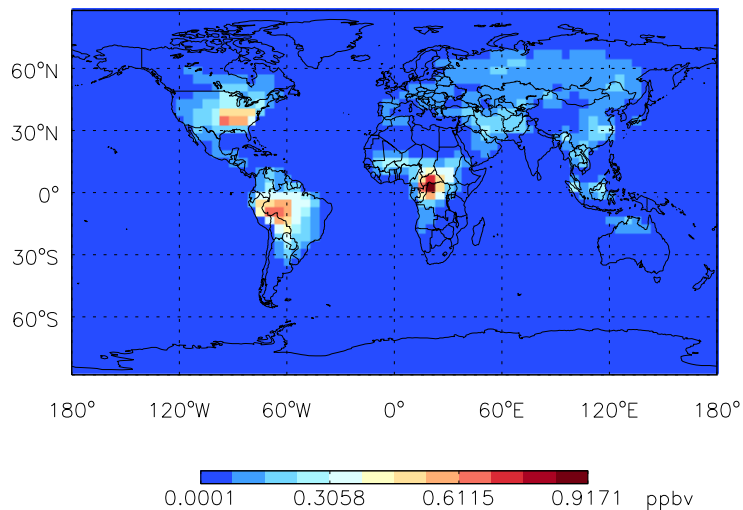
Tracer Map @ Surface – ISOG2



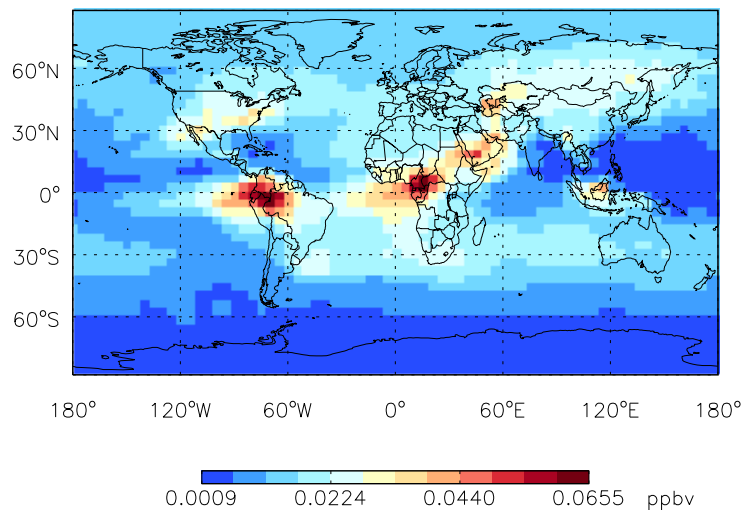
Tracer Map @ 500 hPa – ISOG2



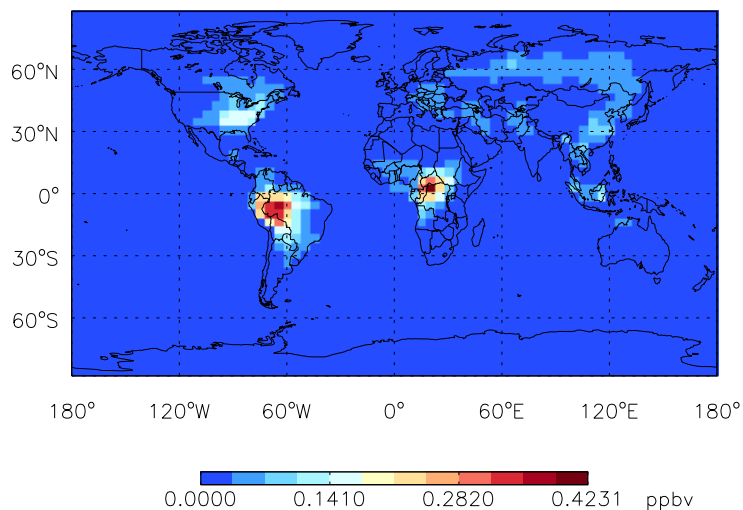
Tracer Map @ Surface – ISOG3



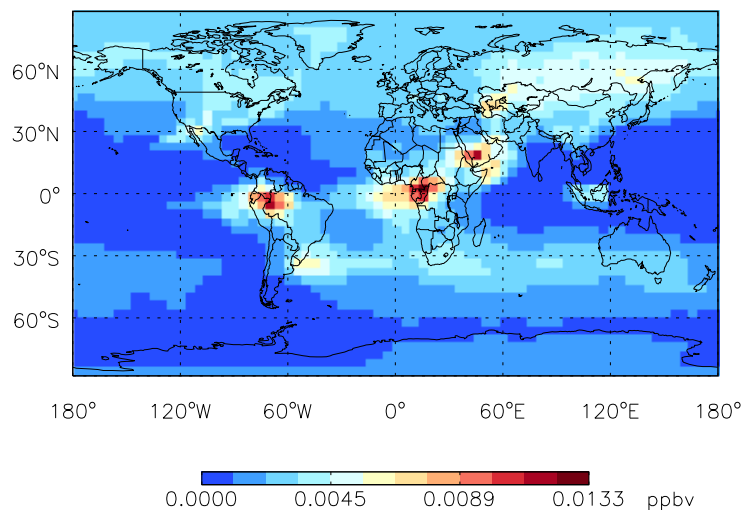
Tracer Map @ 500 hPa – ISOG3



Tracer Map @ Surface – ISOA1



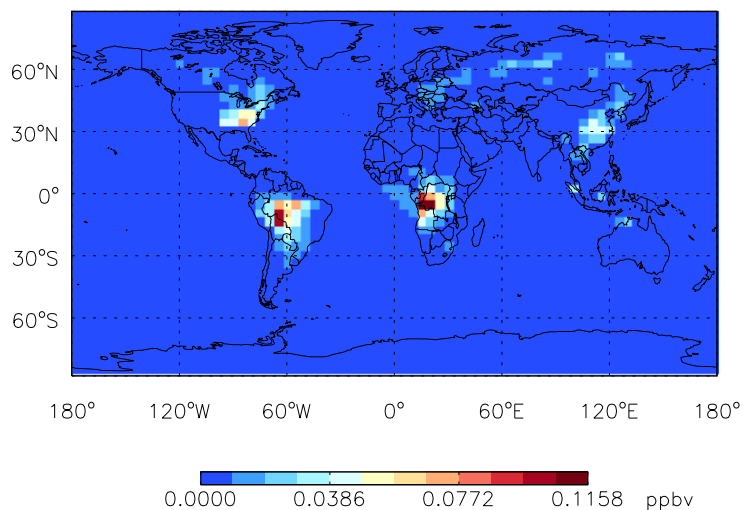
Tracer Map @ 500 hPa – ISOA1



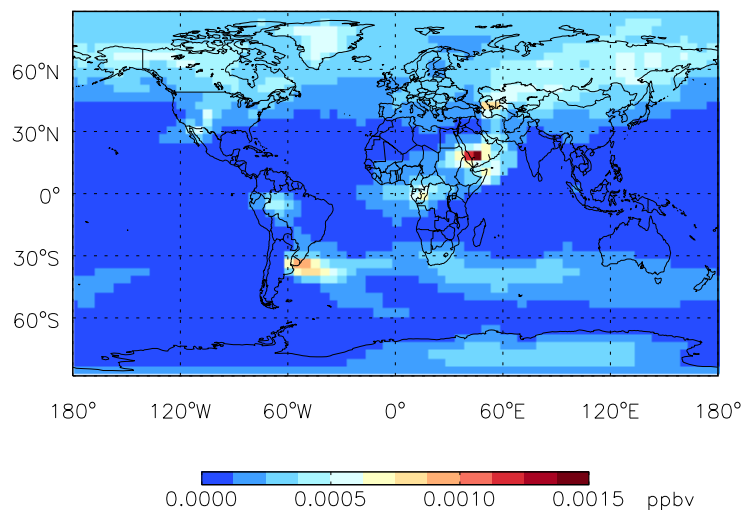
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

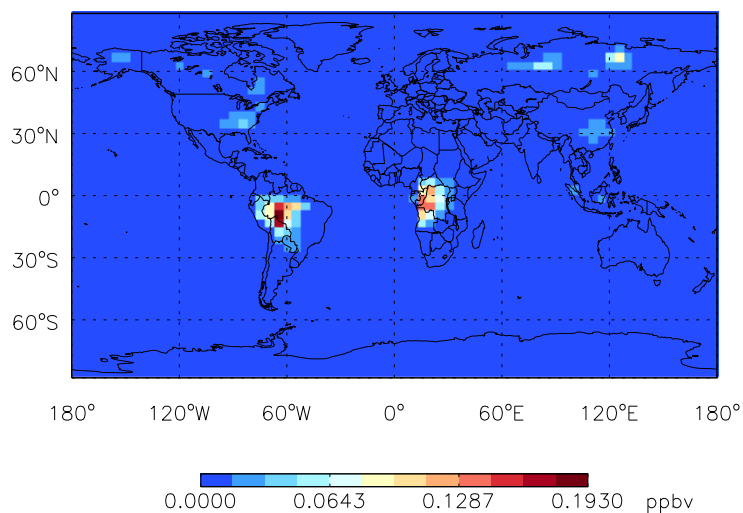
Tracer Map @ Surface – ISOA2



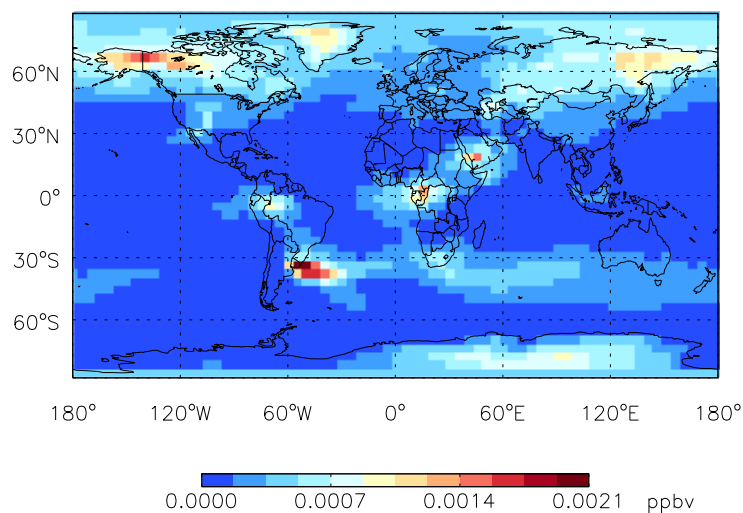
Tracer Map @ 500 hPa – ISOA2



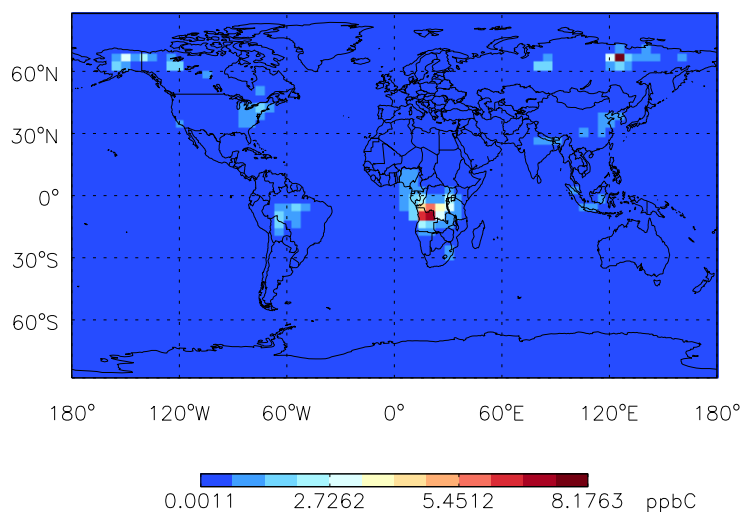
Tracer Map @ Surface – ISOA3



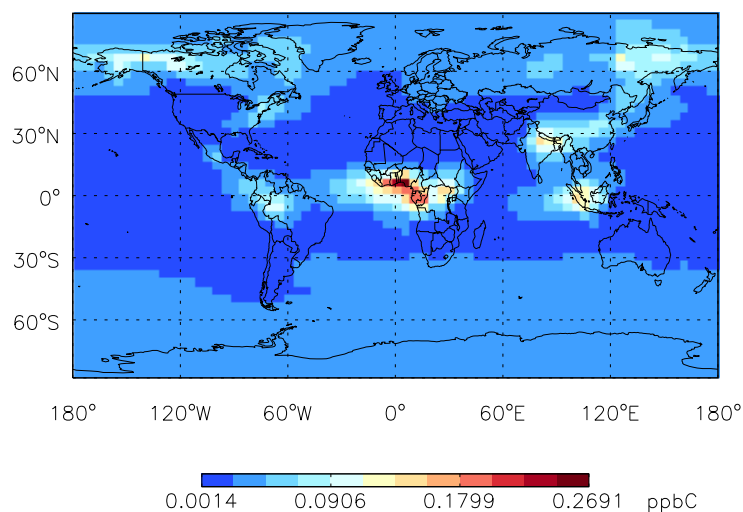
Tracer Map @ 500 hPa – ISOA3



Tracer Map @ Surface – BENZ



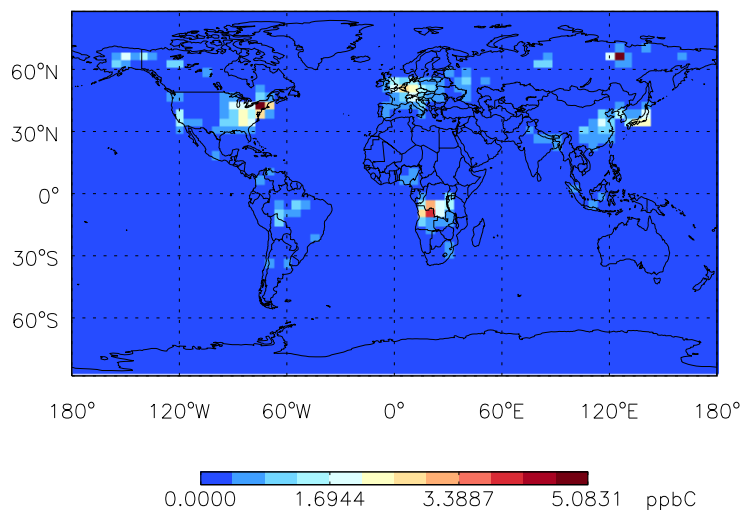
Tracer Map @ 500 hPa – BENZ



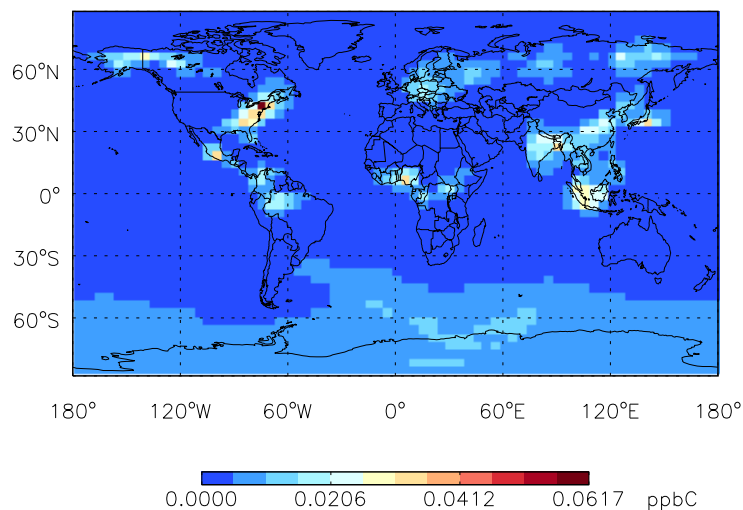
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

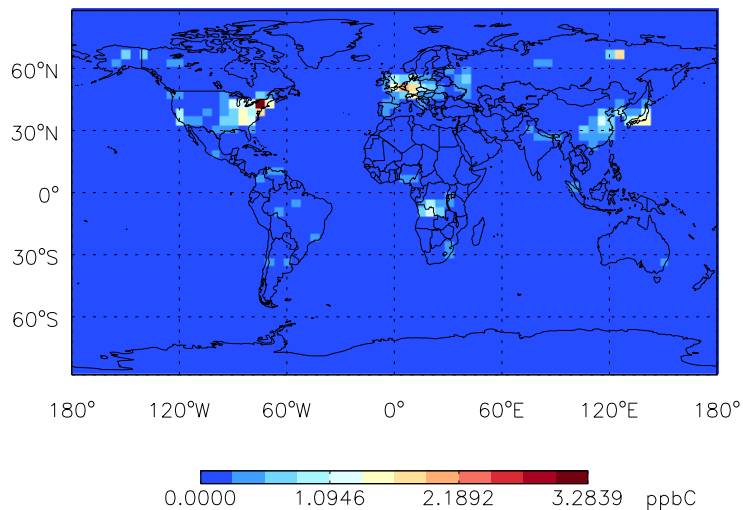
Tracer Map @ Surface – TOLU



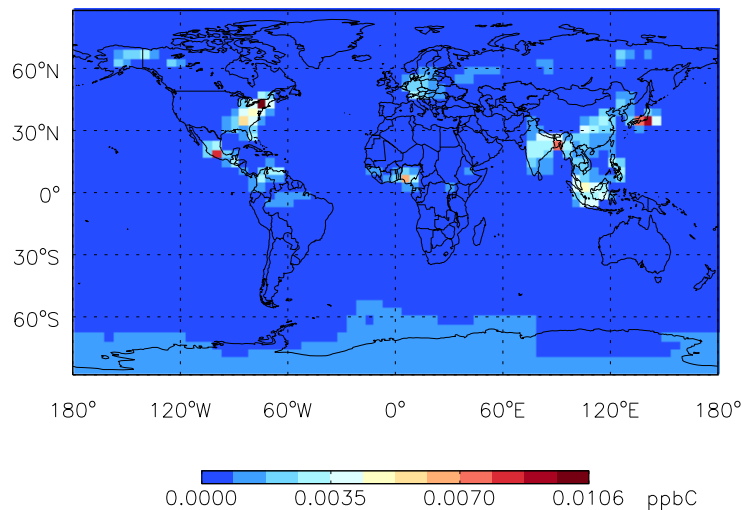
Tracer Map @ 500 hPa – TOLU



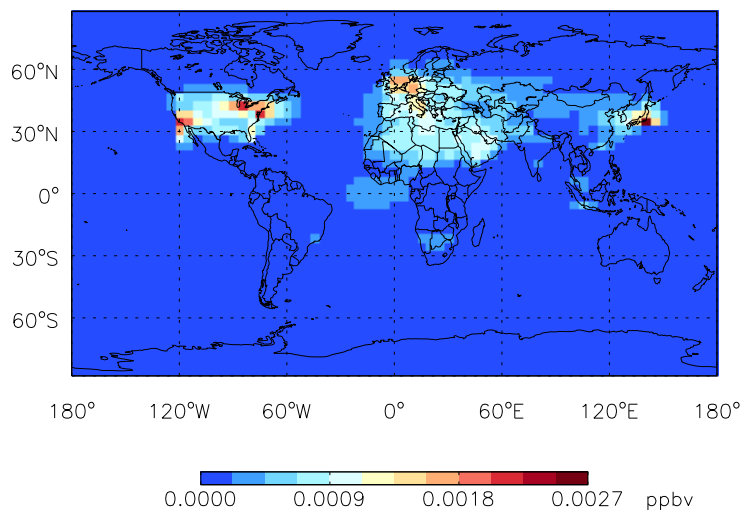
Tracer Map @ Surface – XYLE



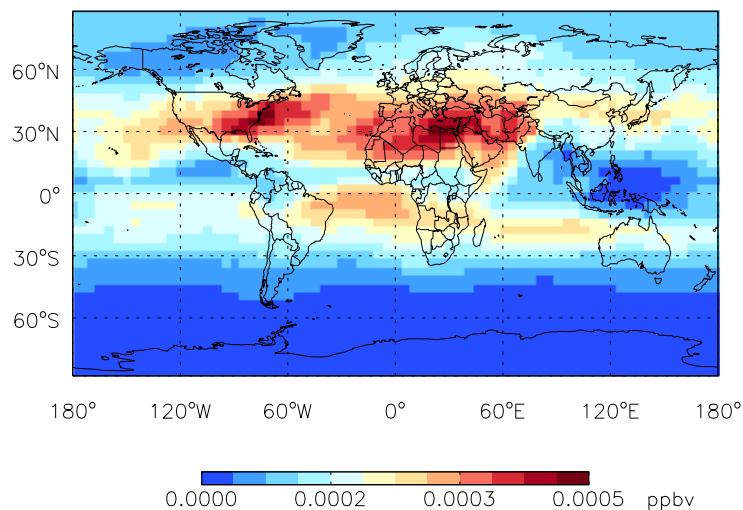
Tracer Map @ 500 hPa – XYLE



Tracer Map @ Surface – ASOG1



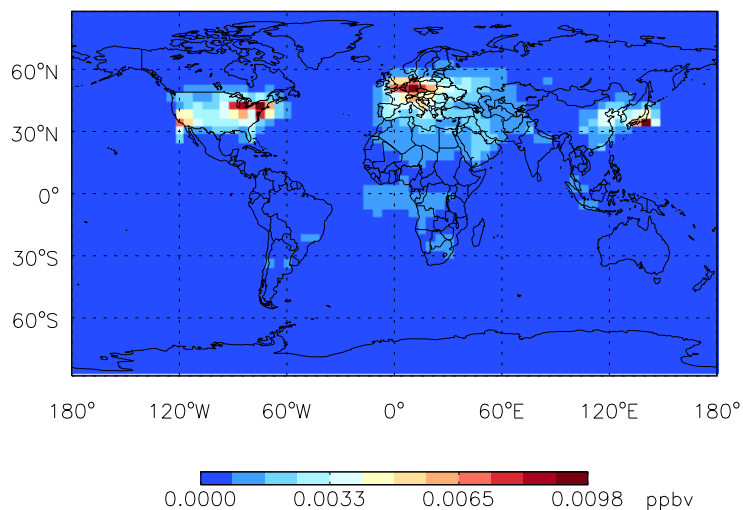
Tracer Map @ 500 hPa – ASOG1



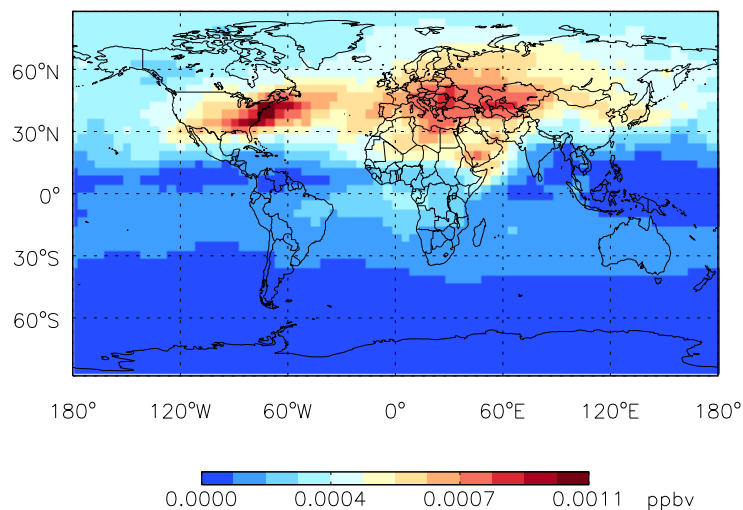
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

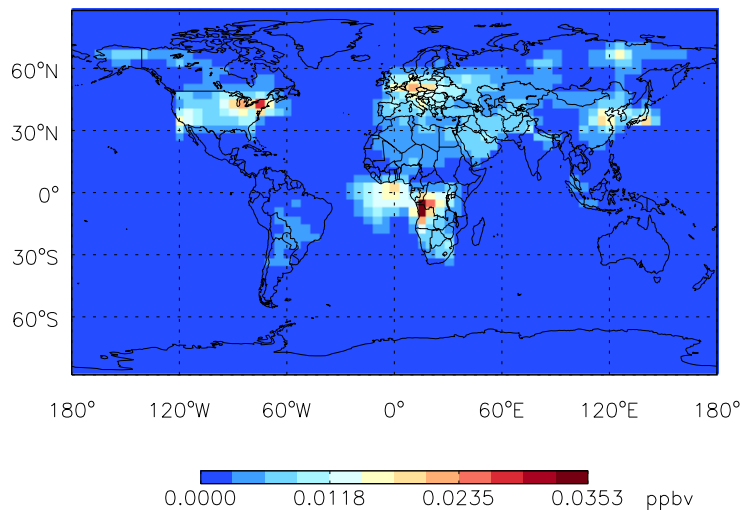
Tracer Map @ Surface – ASOG2



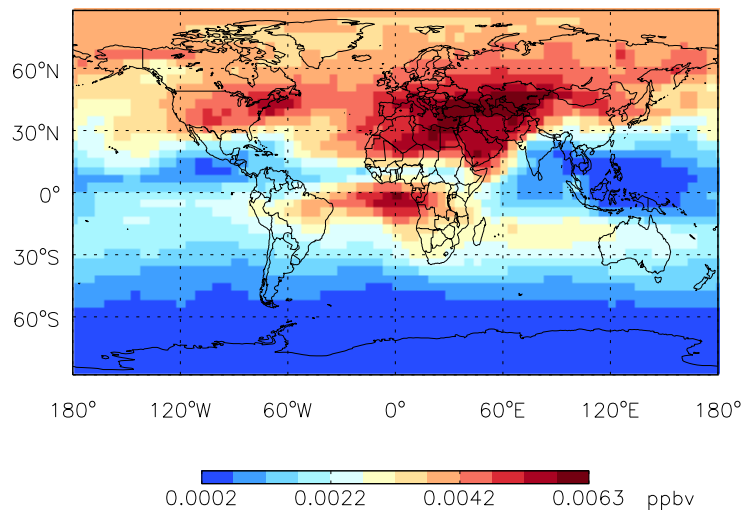
Tracer Map @ 500 hPa – ASOG2



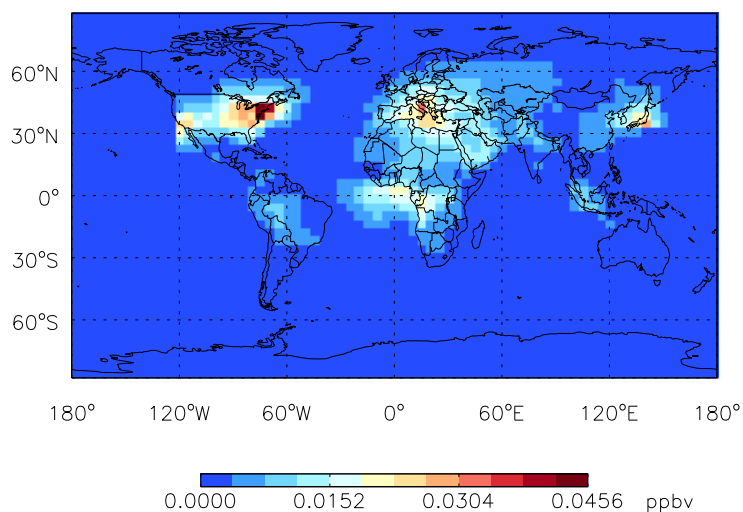
Tracer Map @ Surface – ASOG3



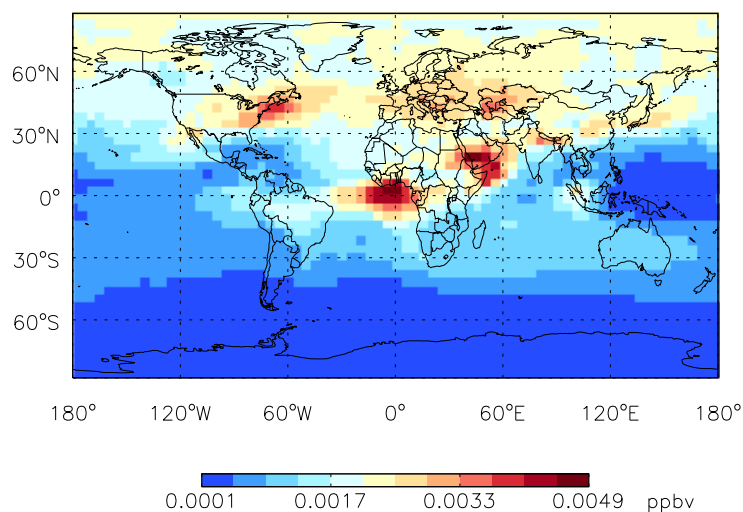
Tracer Map @ 500 hPa – ASOG3



Tracer Map @ Surface – ASOAN



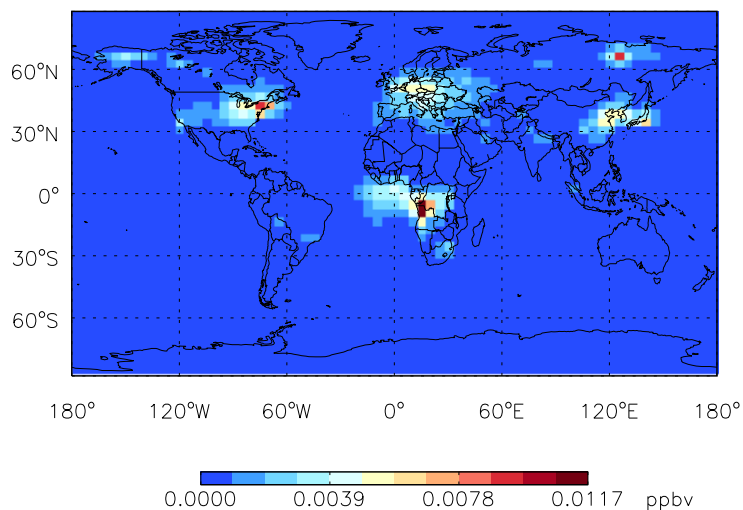
Tracer Map @ 500 hPa – ASOAN



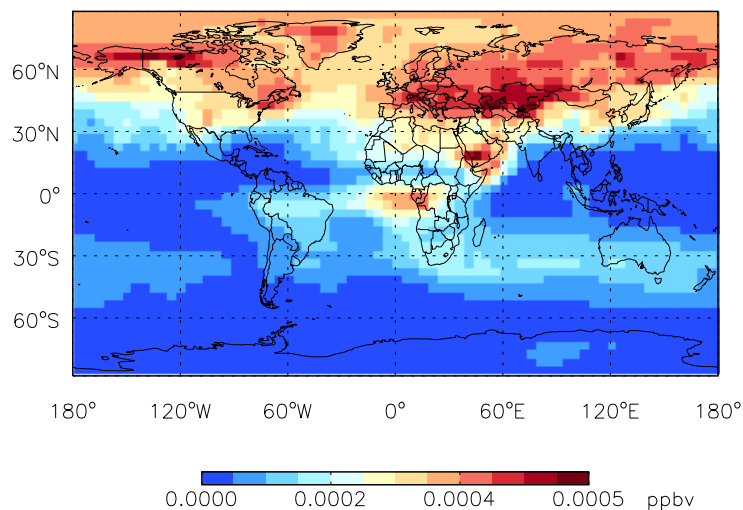
GEOS-Chem v9-02o_SOA Tracer Maps at Surface and 500 hPa

ctm.bpch.v9-02o_SOA

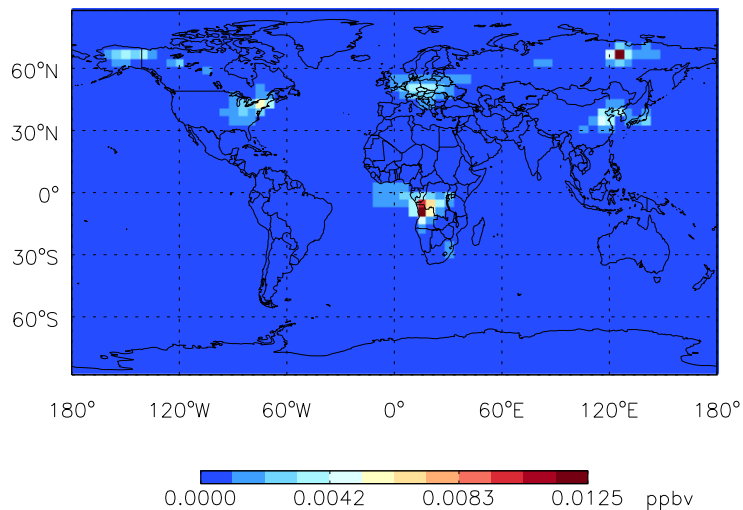
Tracer Map @ Surface – ASOA1



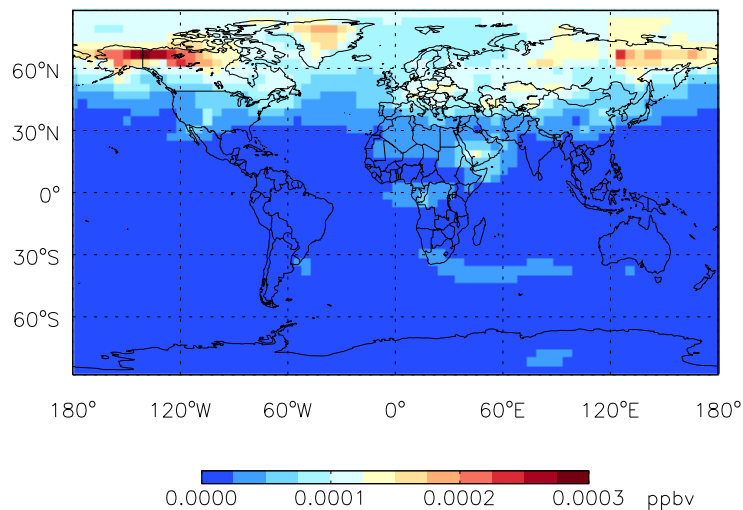
Tracer Map @ 500 hPa – ASOA1



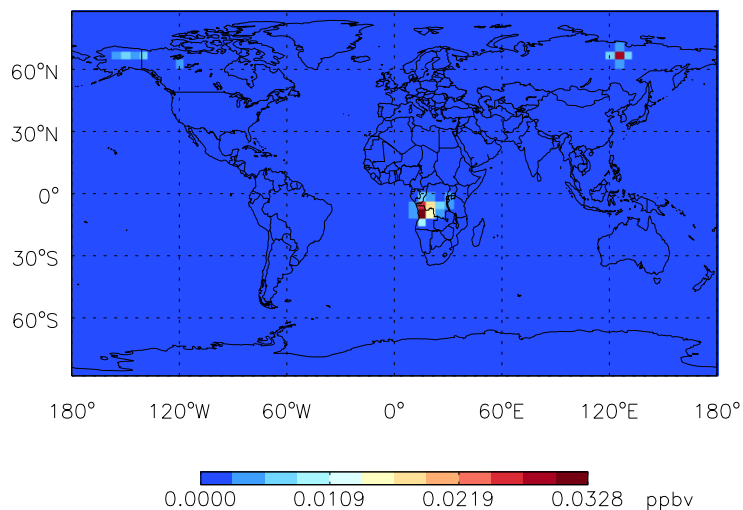
Tracer Map @ Surface – ASOA2



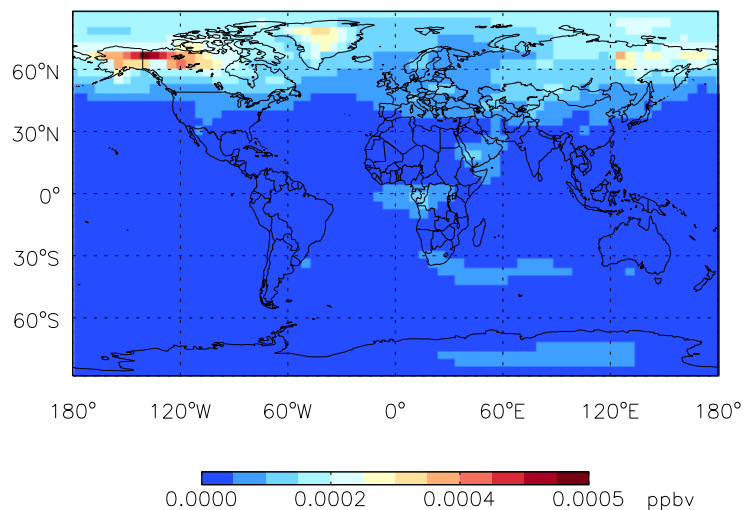
Tracer Map @ 500 hPa – ASOA2



Tracer Map @ Surface – ASOA3



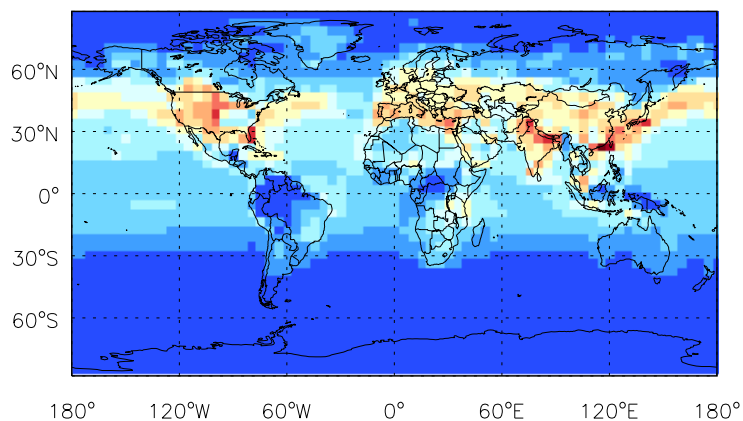
Tracer Map @ 500 hPa – ASOA3



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

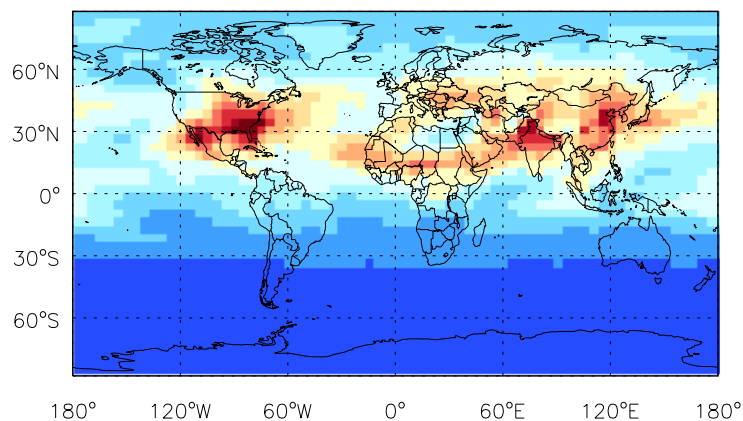
ctm.bpch.v9-02o_SOA

Tracer Map @ Surface - OH



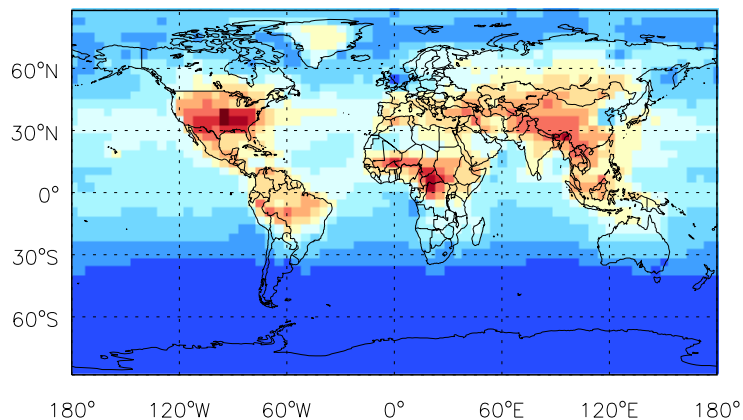
0.0000 20.2561 40.5122 60.7683 1e5 molec/cm3

Tracer Map @ 500 hPa - OH



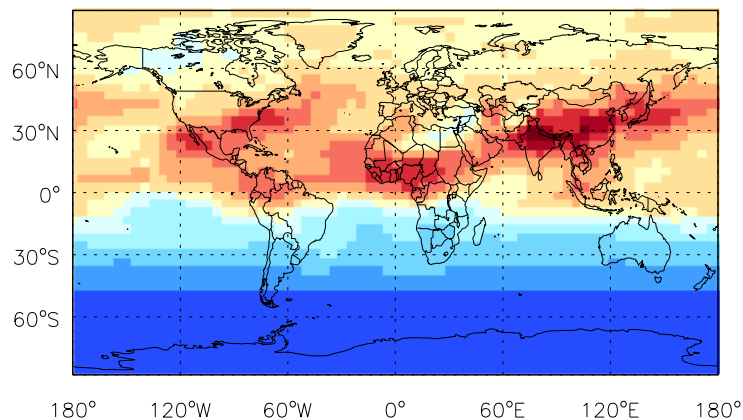
0.0002 16.7292 33.4582 50.1872 1e5 molec/cm3

Tracer Map @ Surface - HO2



0.0002 6.0118 12.0235 18.0351 pptv

Tracer Map @ 500 hPa - HO2



0.0010 5.1150 10.2291 15.3431 pptv