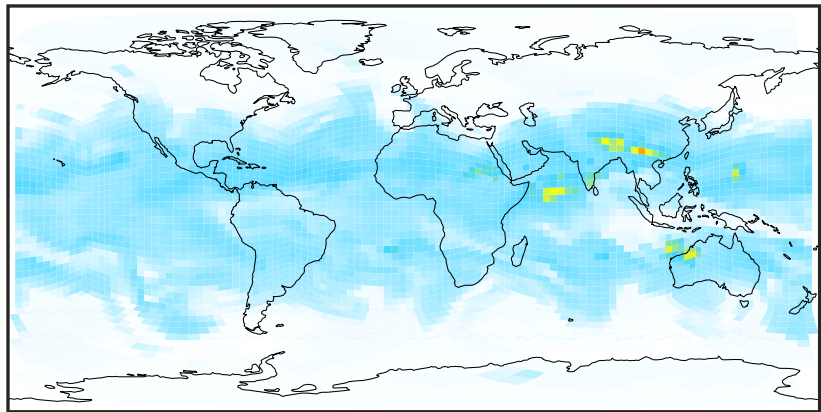


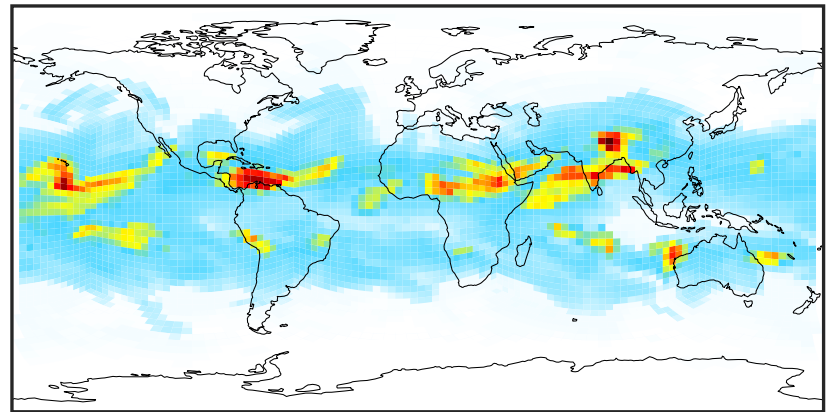
SpeciesConcVV_PassiveTracer (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



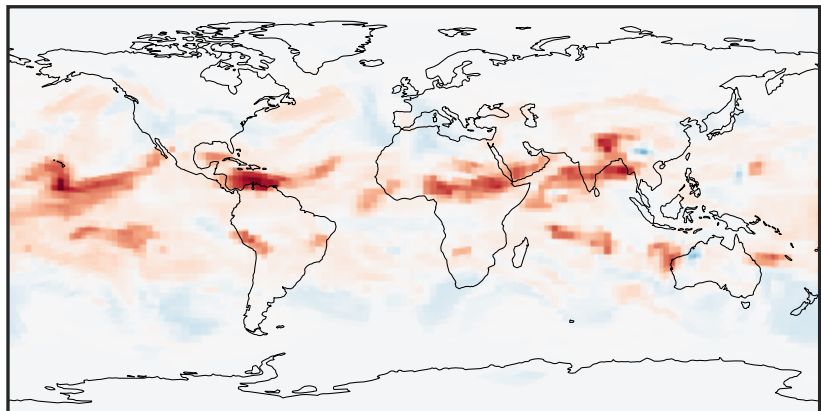
0.0005 0.0010 0.0015 0.0020
ppb +9.998e1

GCHP 14.2.2 using mass flux (Dev)
c30



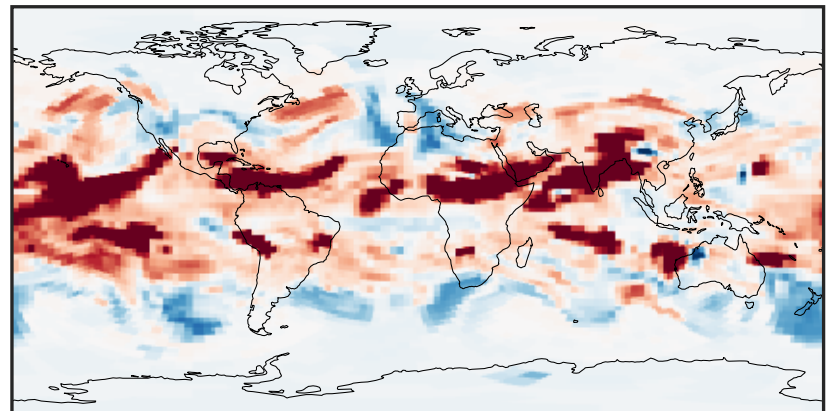
0.0005 0.0010 0.0015 0.0020
ppb +9.998e1

Difference (1x1.25)
Dev - Ref, Dynamic Range



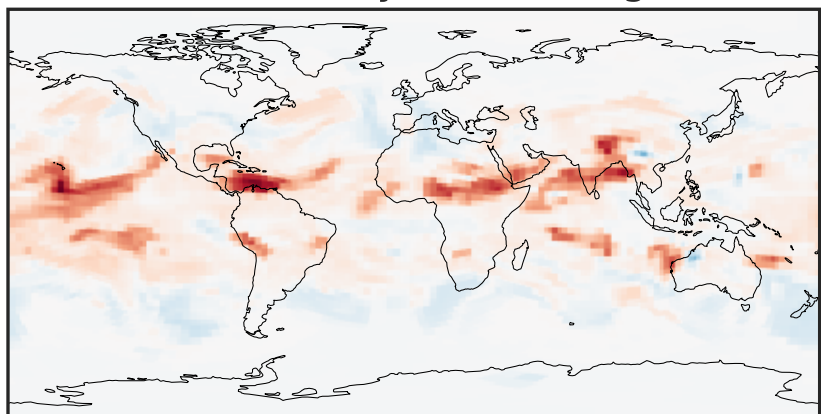
-0.0008 0.0000 0.0008
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



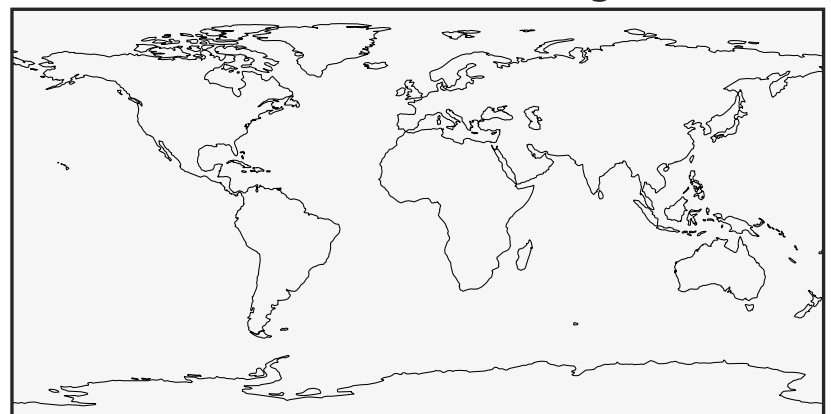
-0.0002 0.0000 0.0002
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99998573 1.00000000 1.00001427
unitless

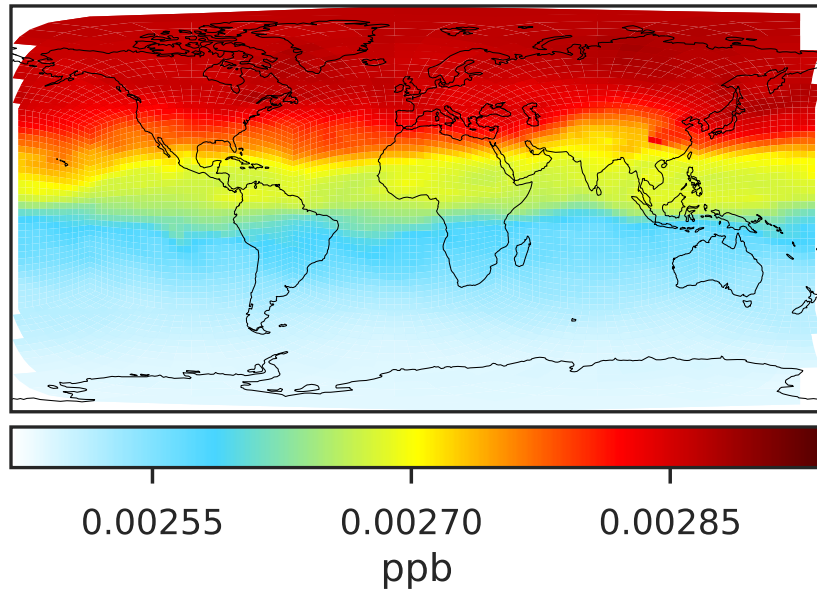
Ratio (1x1.25)
Dev/Ref, Fixed Range



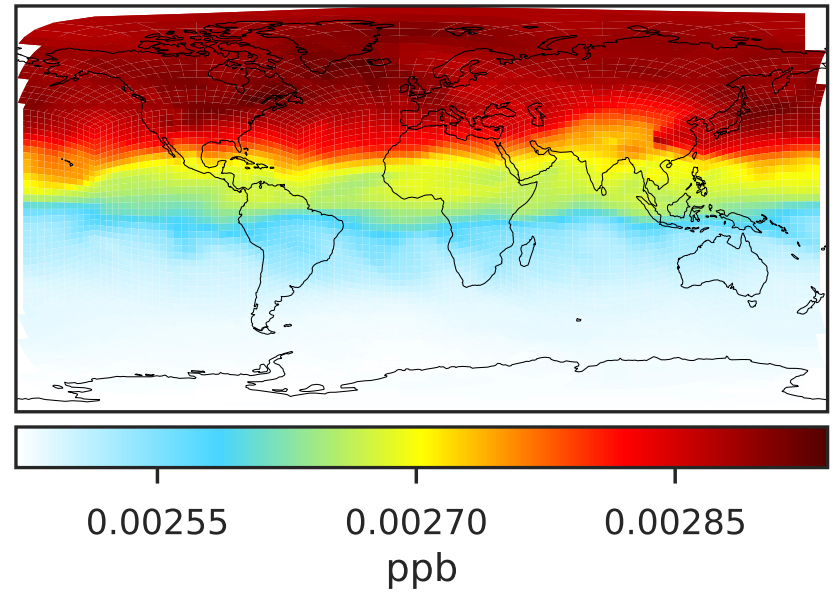
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SF6 (Apr2019)

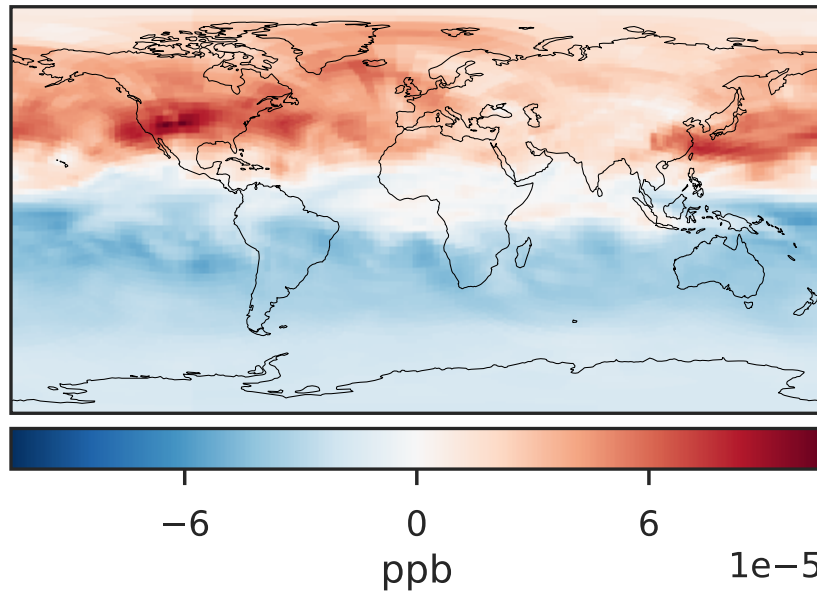
GCHP 14.2.2 using wind (Ref)
c30



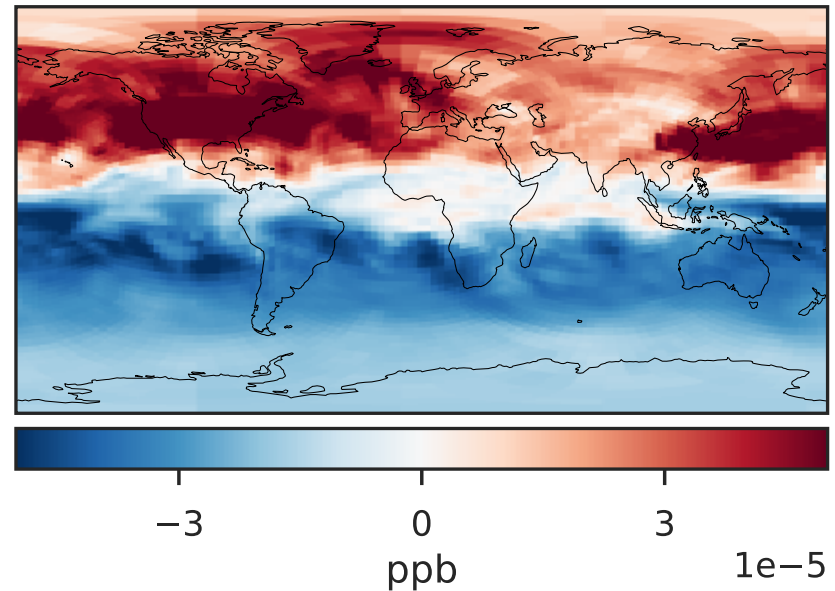
GCHP 14.2.2 using mass flux (Dev)
c30



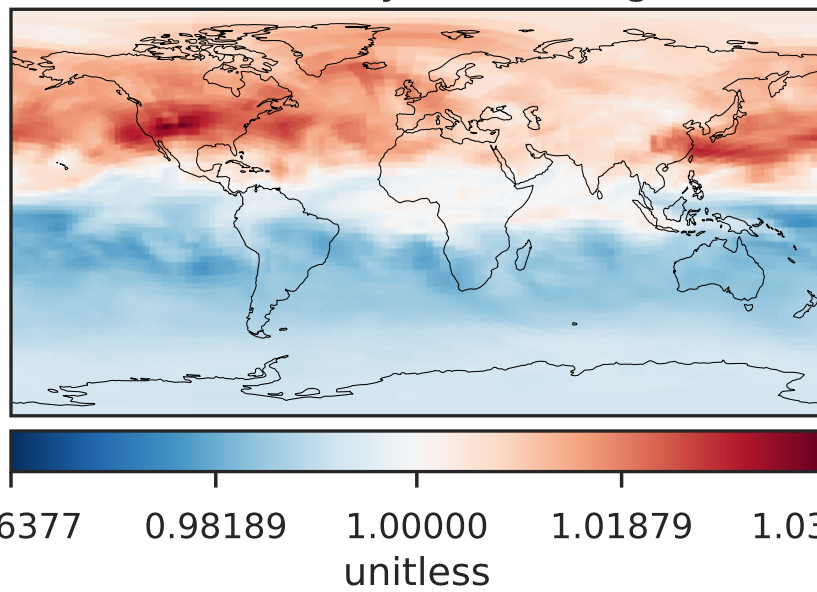
Difference (1x1.25)
Dev - Ref, Dynamic Range



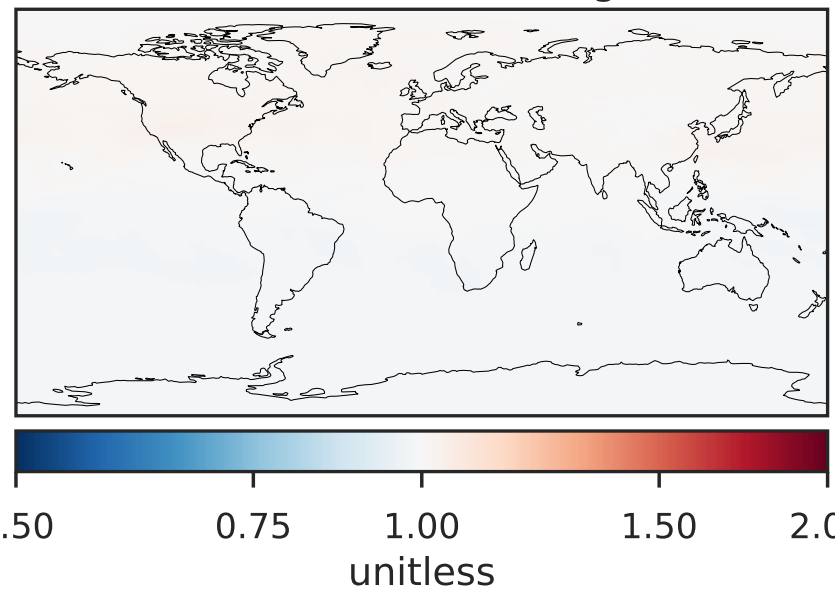
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

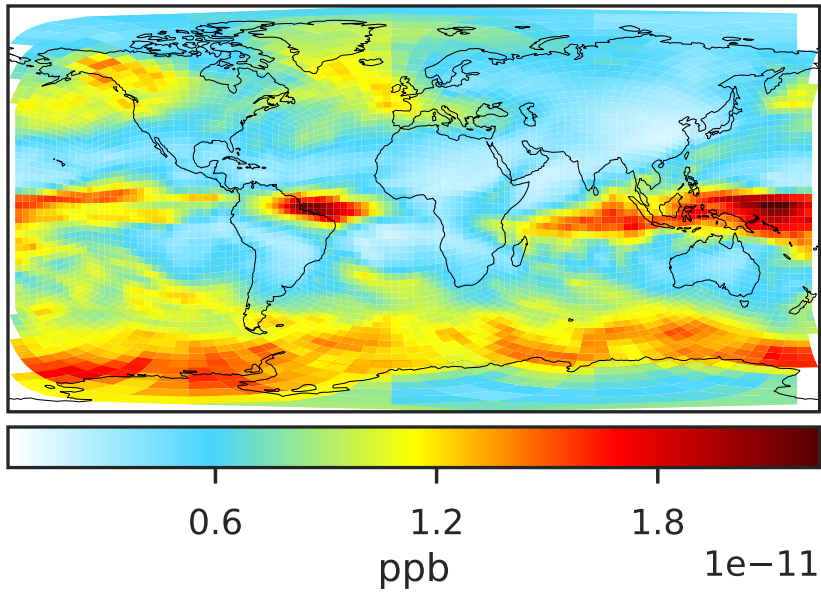


Ratio (1x1.25)
Dev/Ref, Fixed Range

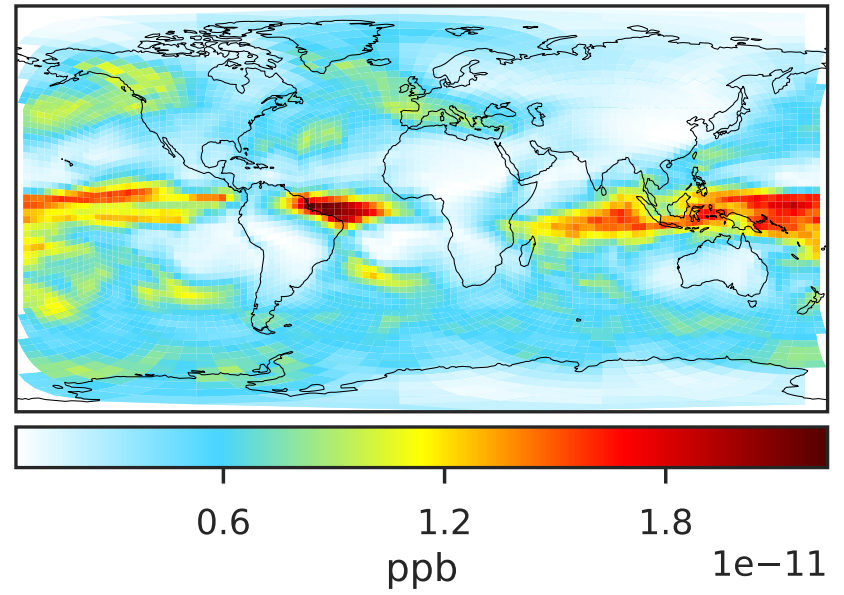


SpeciesConcVV_CH3I (Apr2019)

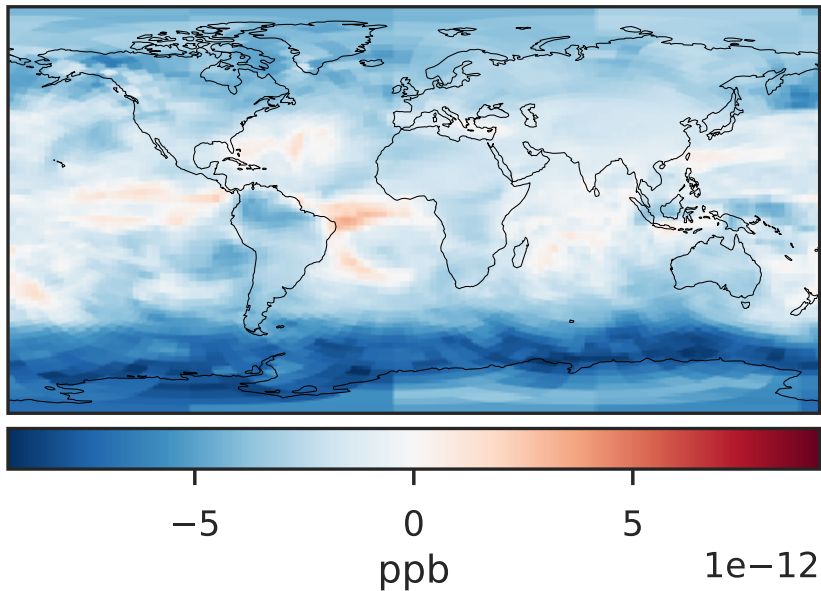
GCHP 14.2.2 using wind (Ref)
c30



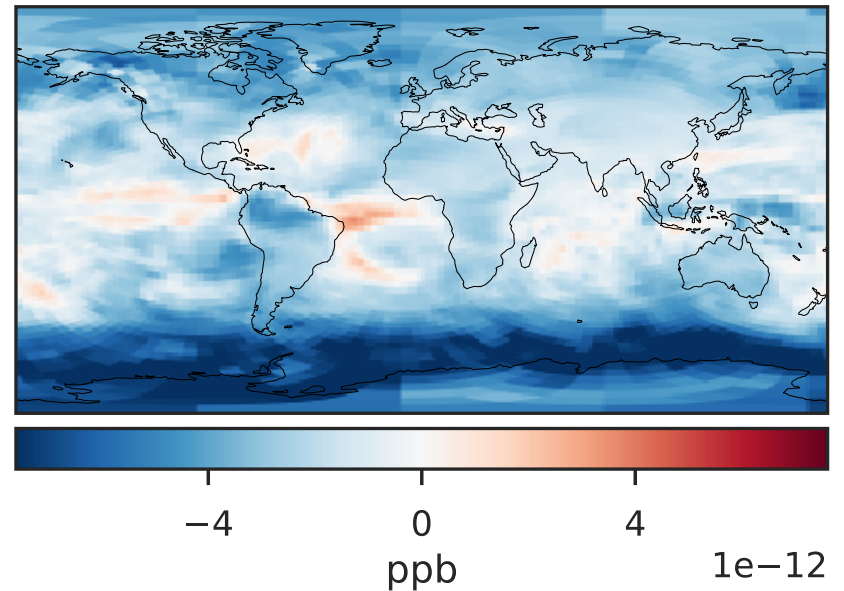
GCHP 14.2.2 using mass flux (Dev)
c30



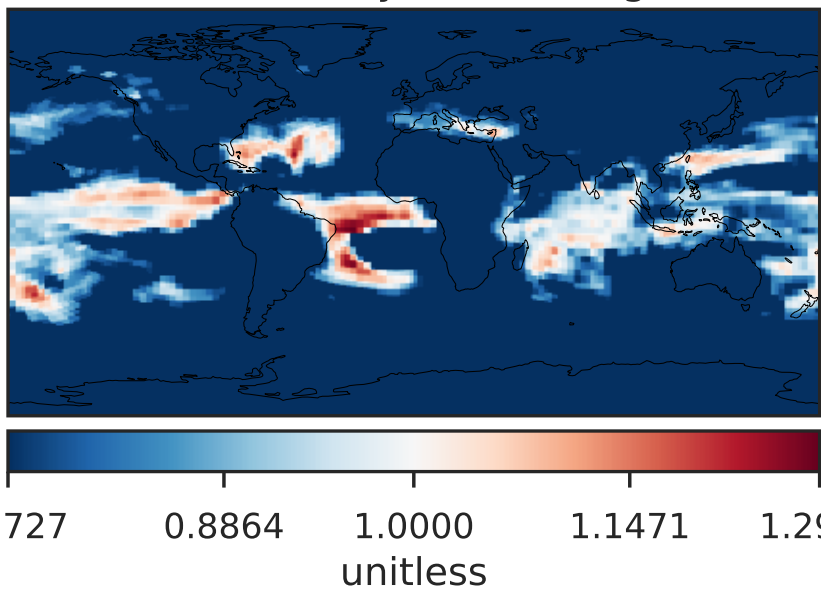
Difference (1x1.25)
Dev - Ref, Dynamic Range



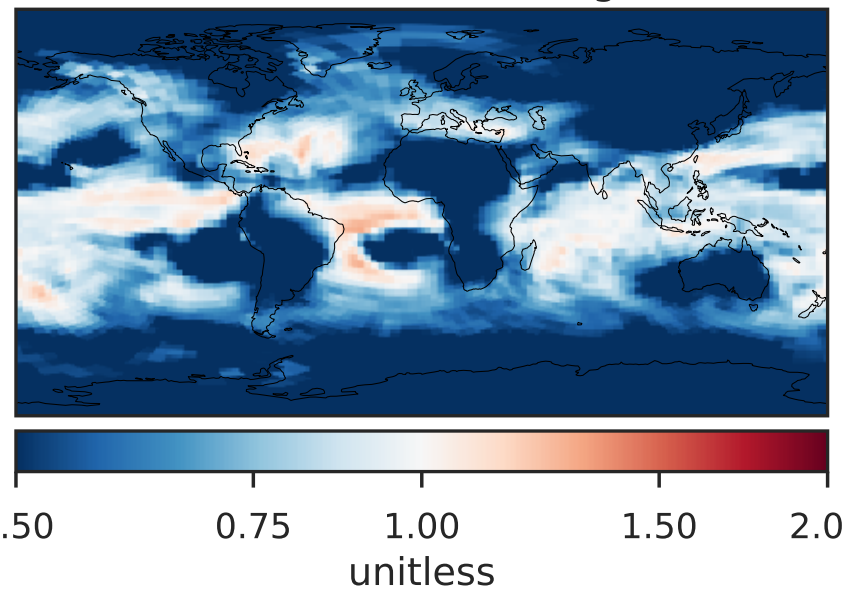
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

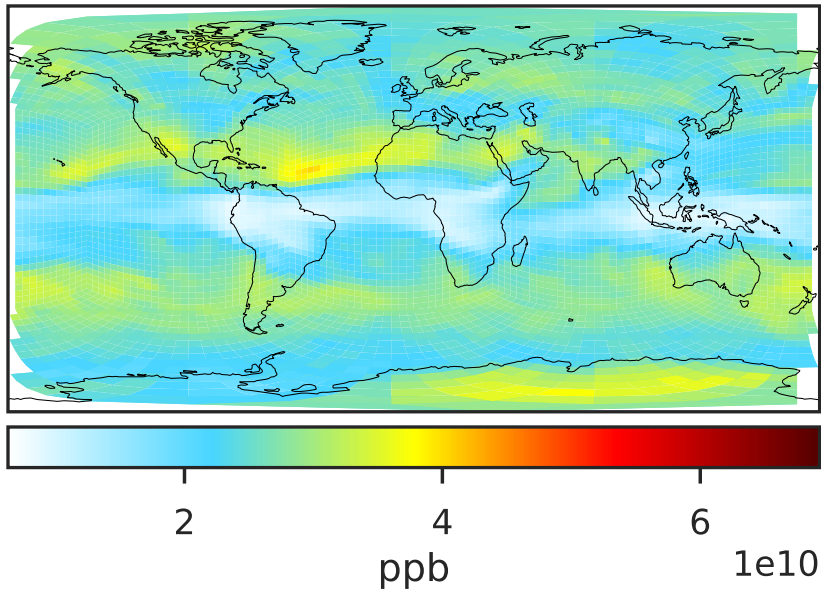


Ratio (1x1.25)
Dev/Ref, Fixed Range

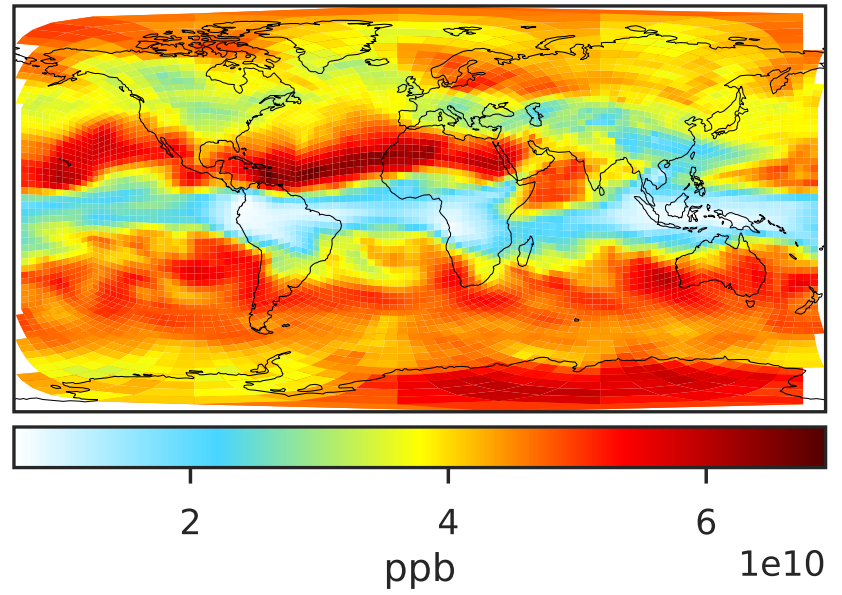


SpeciesConcVV_aoa (Apr2019)

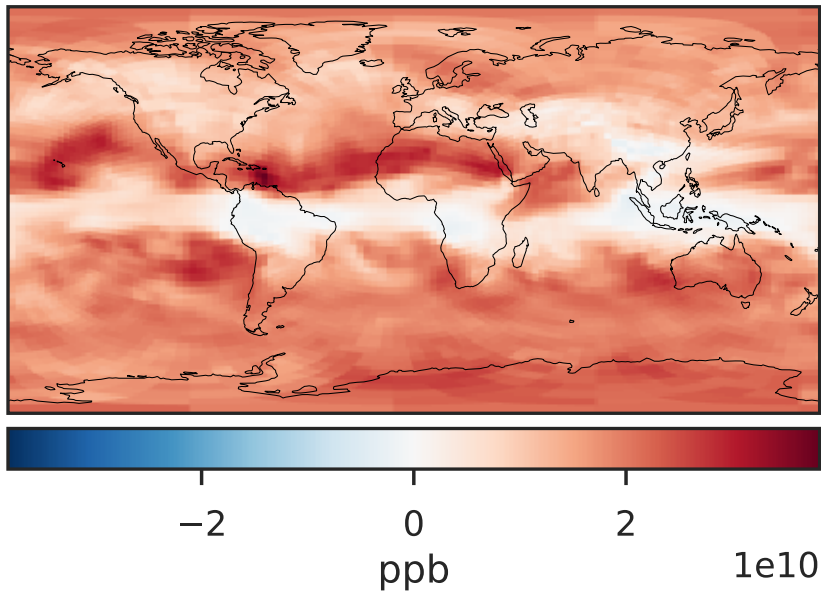
GCHP 14.2.2 using wind (Ref)
c30



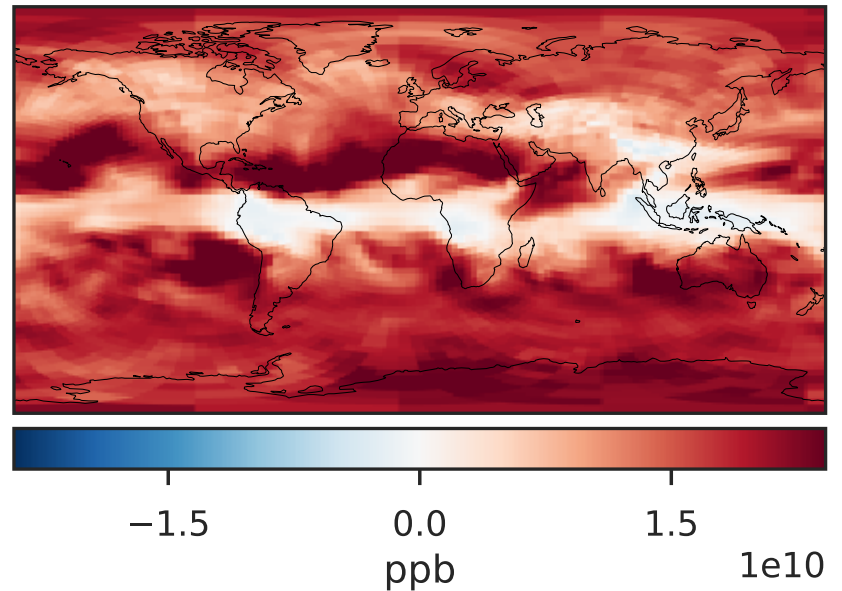
GCHP 14.2.2 using mass flux (Dev)
c30



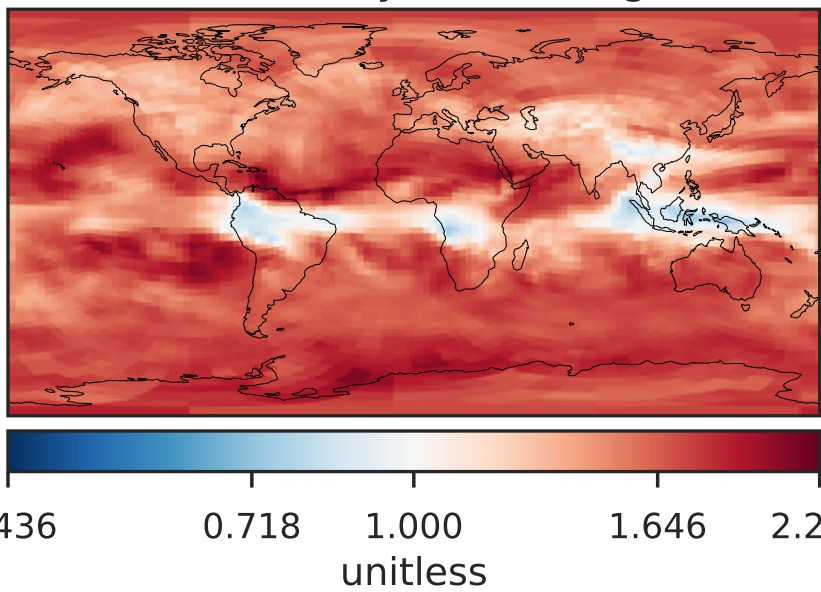
Difference (1x1.25)
Dev - Ref, Dynamic Range



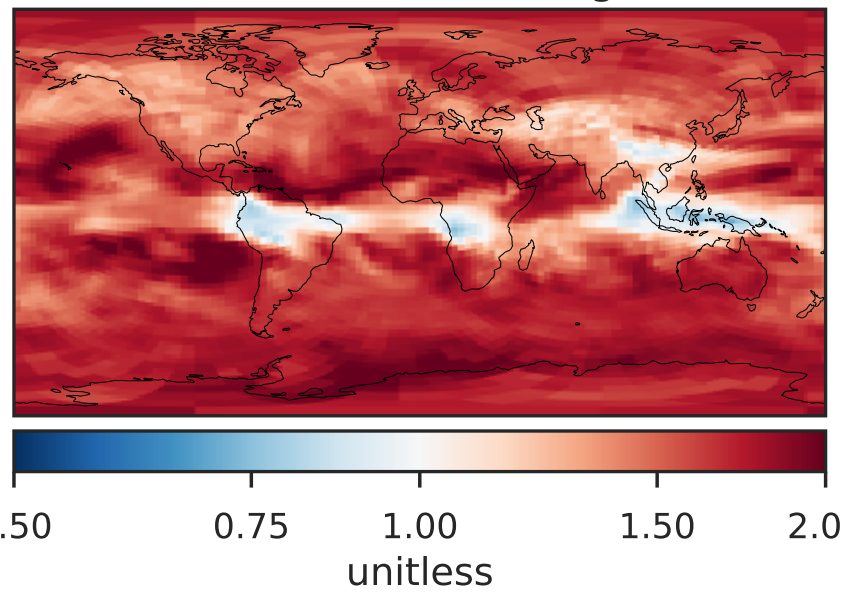
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

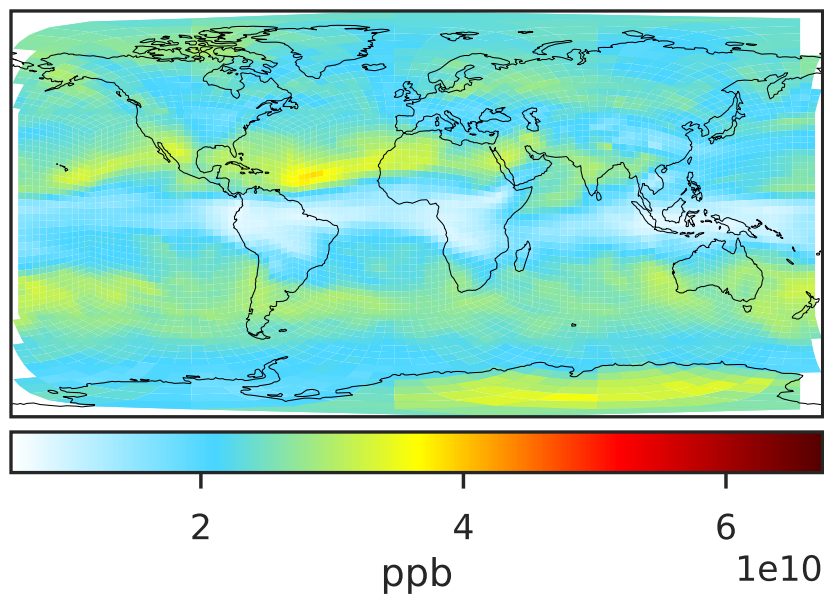


Ratio (1x1.25)
Dev/Ref, Fixed Range

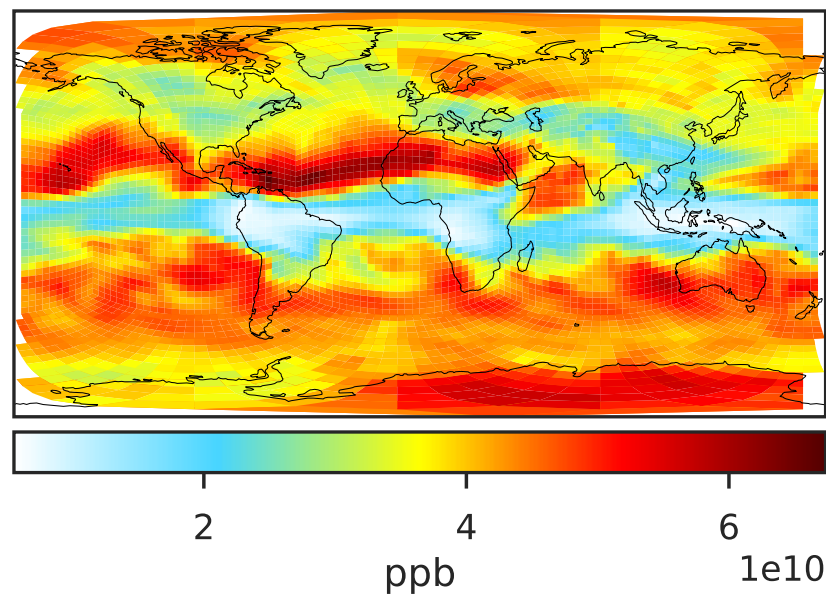


SpeciesConcVV_aoa_bl (Apr2019)

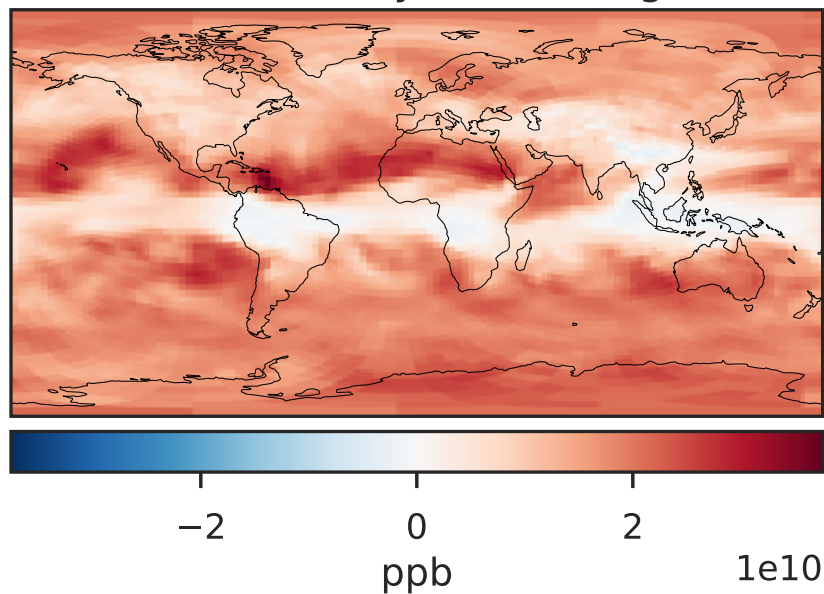
GCHP 14.2.2 using wind (Ref)
c30



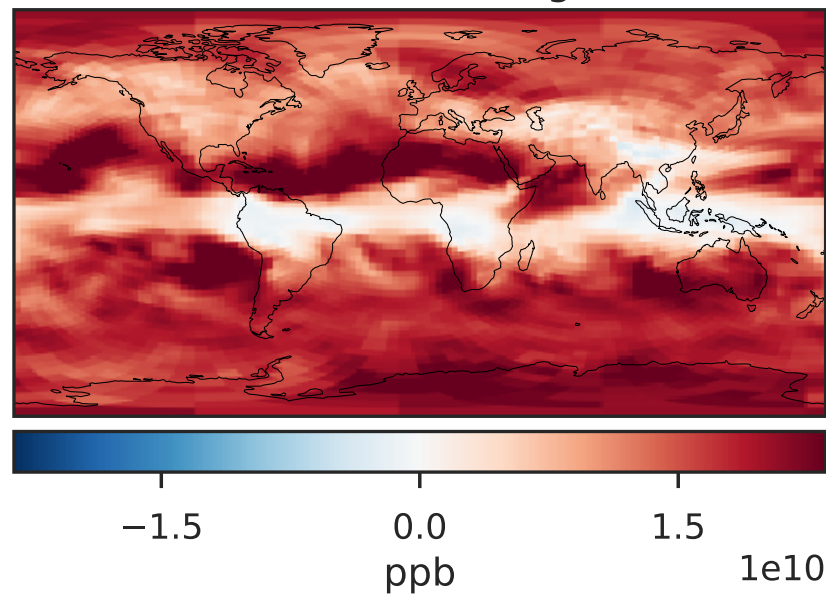
GCHP 14.2.2 using mass flux (Dev)
c30



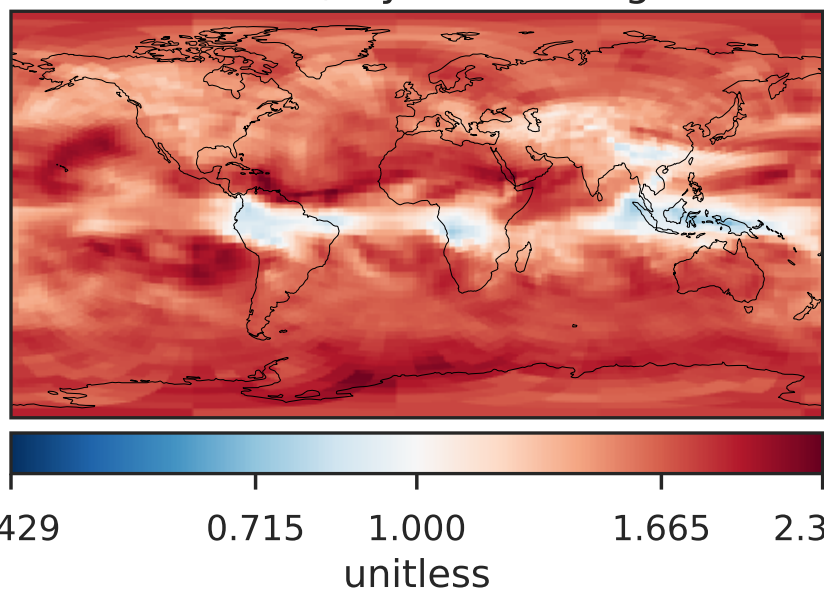
Difference (1x1.25)
Dev - Ref, Dynamic Range



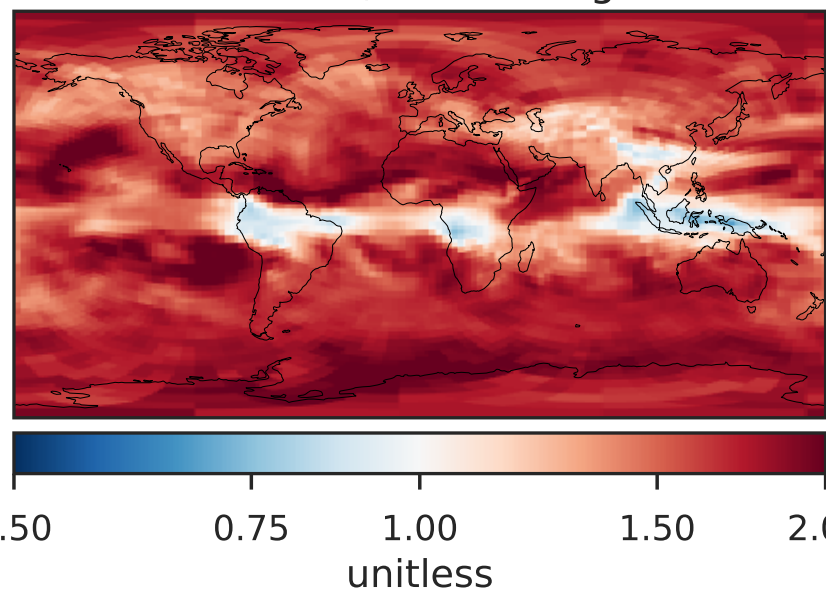
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

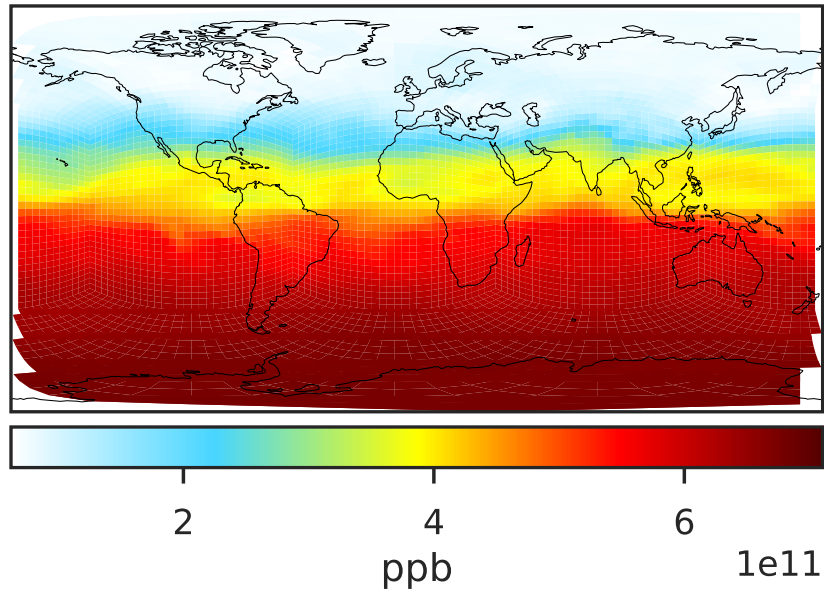


Ratio (1x1.25)
Dev/Ref, Fixed Range

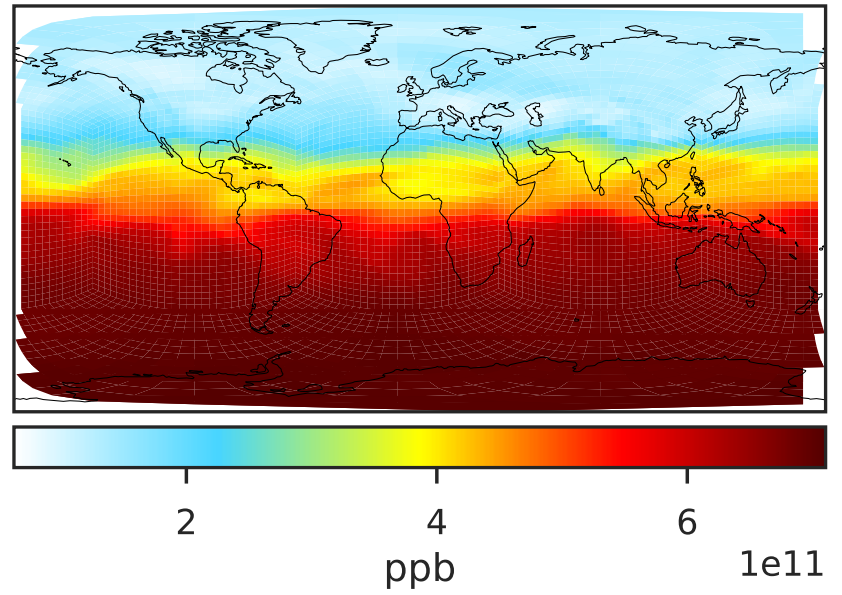


SpeciesConcVV_aoa_nh (Apr2019)

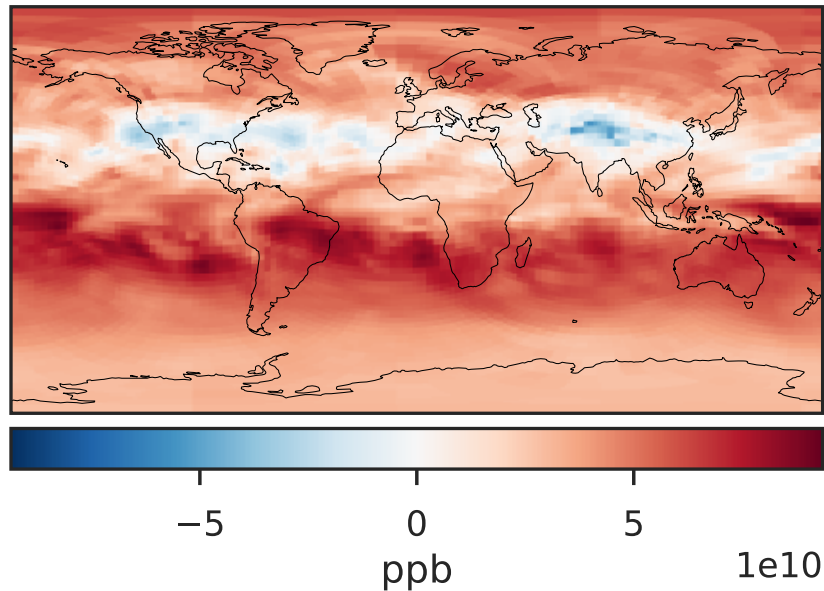
GCHP 14.2.2 using wind (Ref)
c30



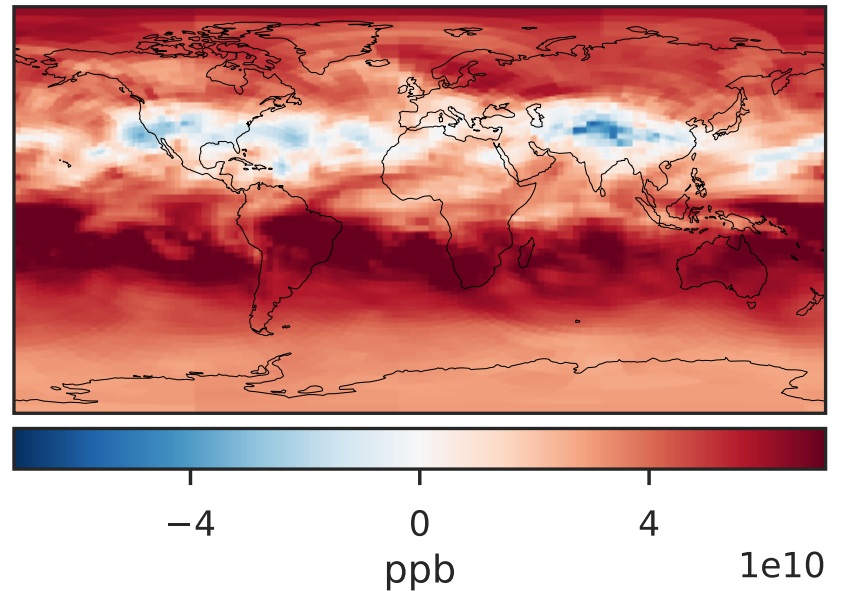
GCHP 14.2.2 using mass flux (Dev)
c30



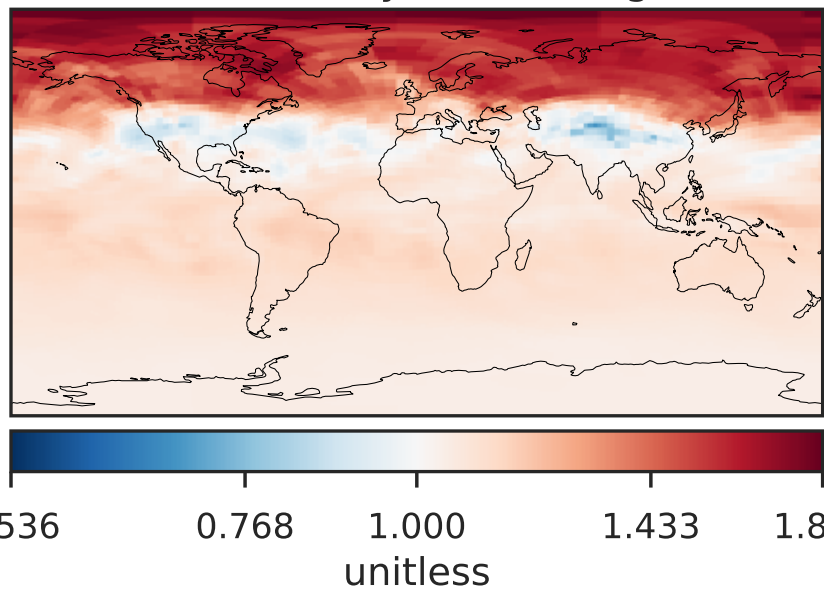
Difference (1x1.25)
Dev - Ref, Dynamic Range



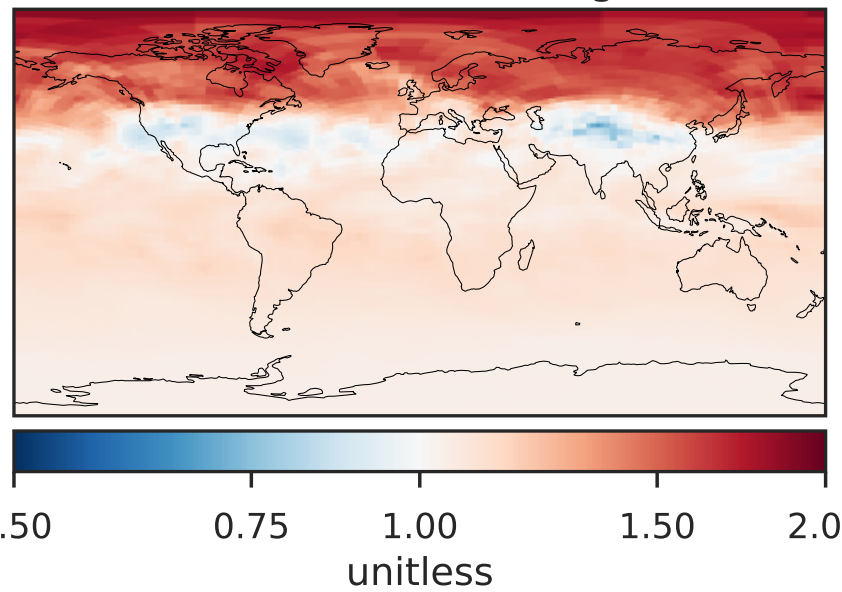
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

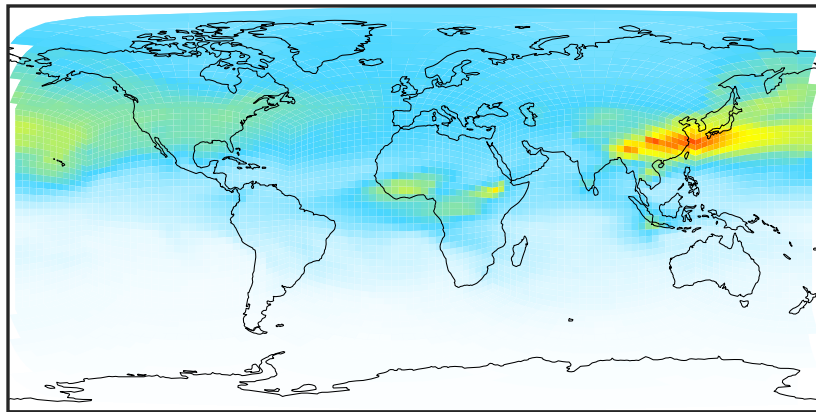


Ratio (1x1.25)
Dev/Ref, Fixed Range



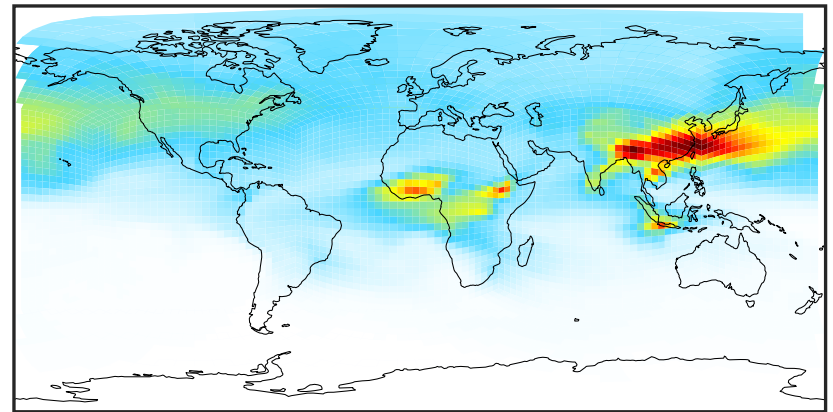
SpeciesConcVV_CO_25 (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



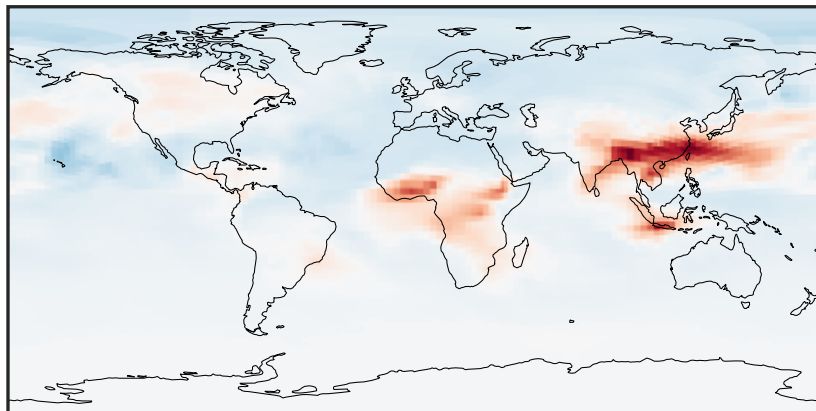
0.38 13.42 26.47 39.51 52.56
ppb

GCHP 14.2.2 using mass flux (Dev)
c30



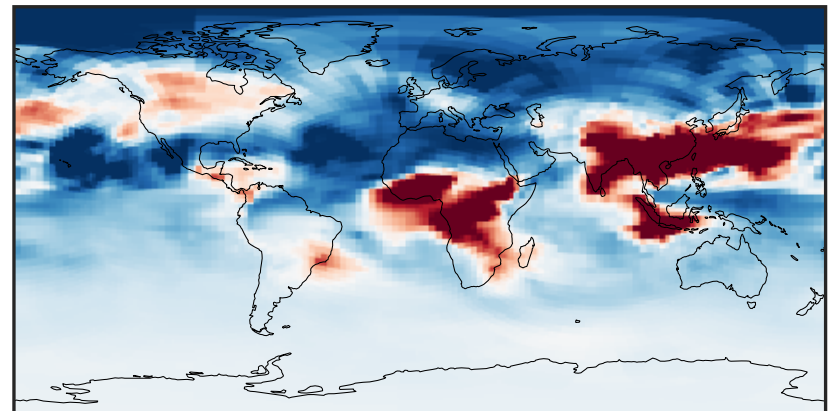
0.38 13.42 26.47 39.51 52.56
ppb

Difference (1x1.25)
Dev - Ref, Dynamic Range



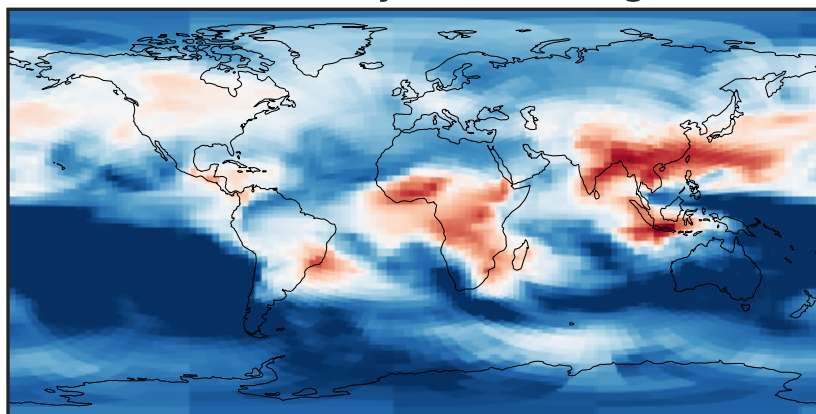
-19.29 -9.65 0.00 9.65 19.29
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



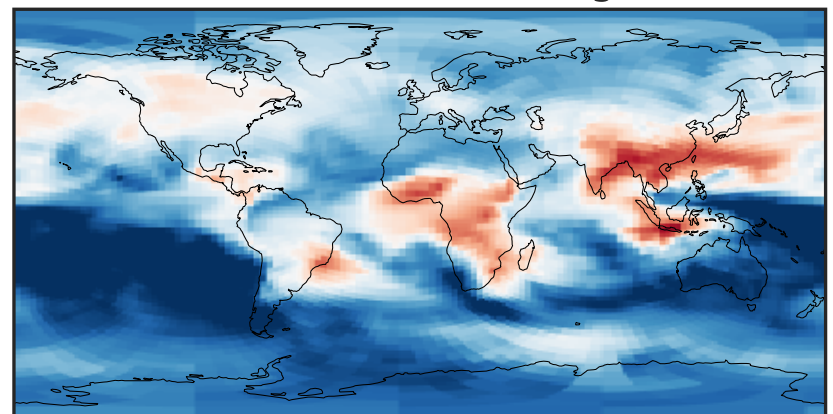
-3.786 -1.893 0.000 1.893 3.786
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.535 0.768 1.000 1.434 1.868
unitless

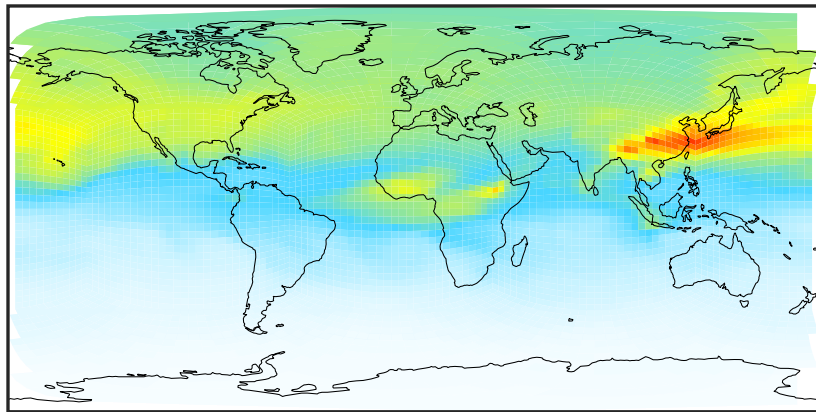
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

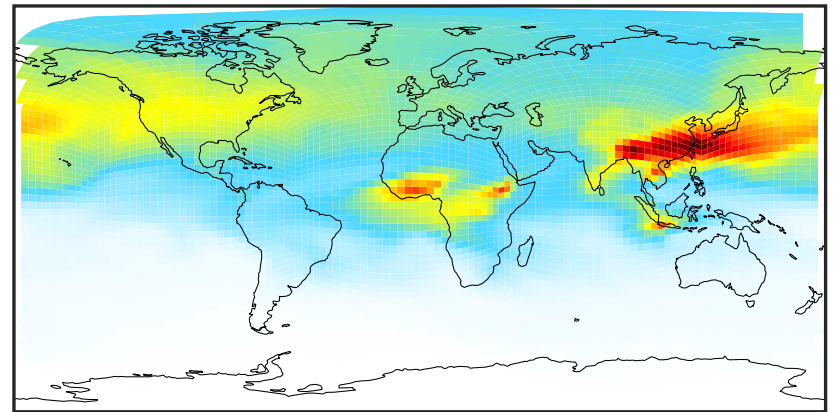
SpeciesConcVV_CO_50 (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



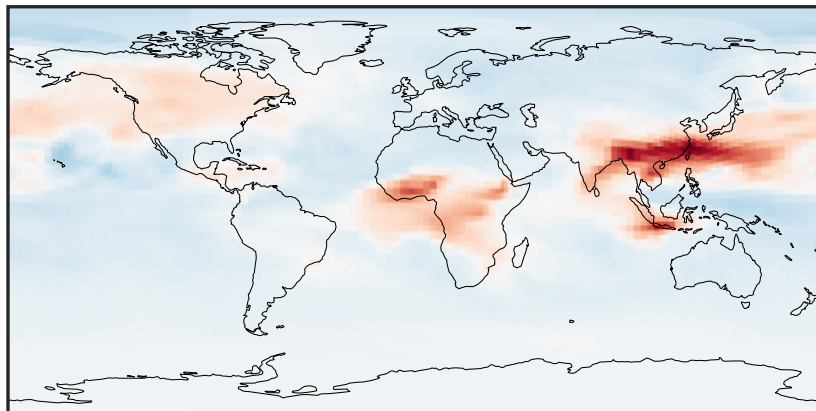
2.02 19.44 36.86 54.28 71.70
ppb

GCHP 14.2.2 using mass flux (Dev)
c30



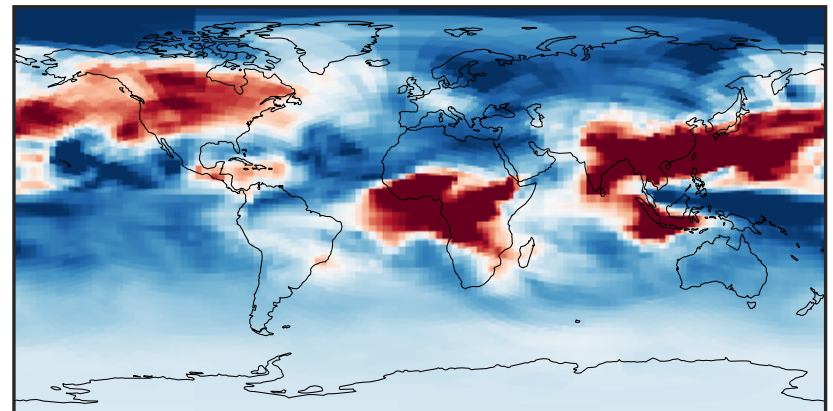
2.02 19.44 36.86 54.28 71.70
ppb

Difference (1x1.25)
Dev - Ref, Dynamic Range



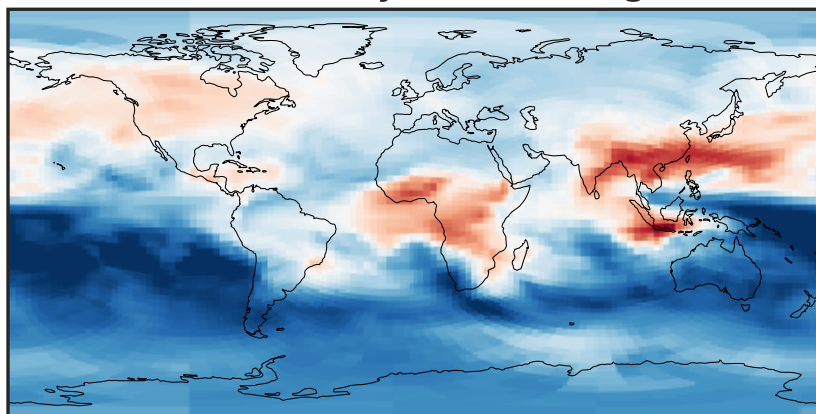
-23.72 -11.86 0.00 11.86 23.72
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



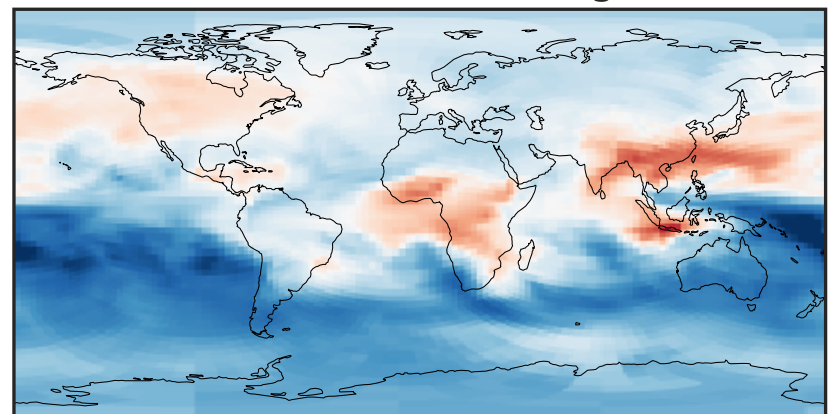
-4.749 -2.375 0.000 2.375 4.749
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.571 0.786 1.000 1.376 1.751
unitless

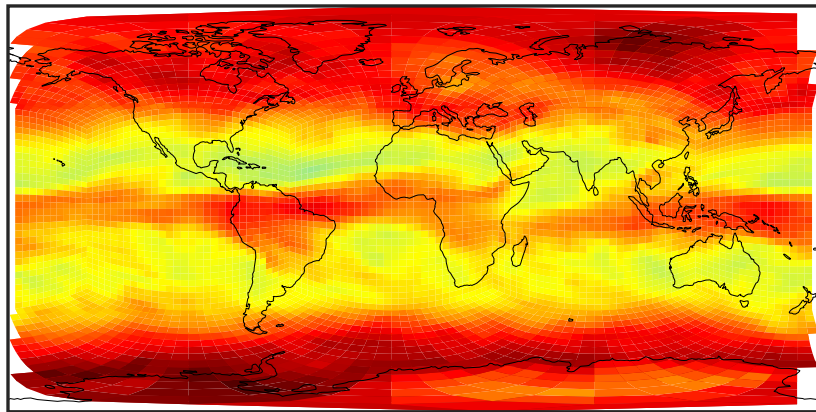
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

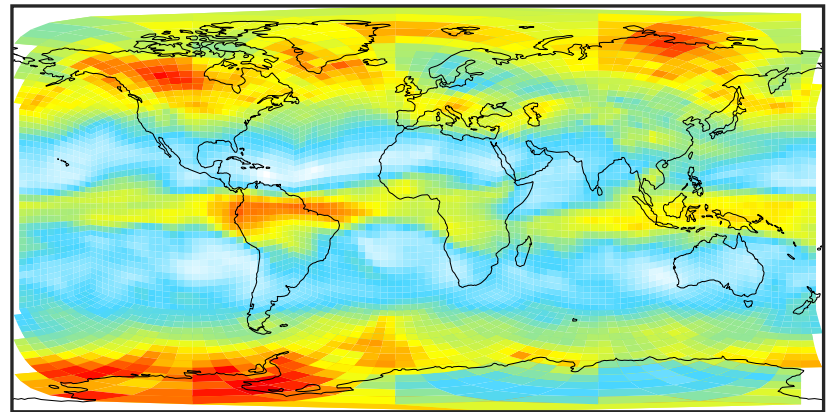
SpeciesConcVV_e90 (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



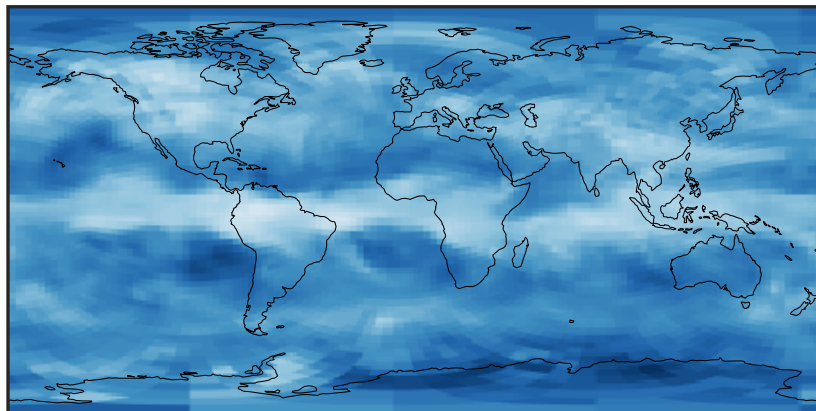
46.36 56.06 65.77 75.47 85.18
ppb

GCHP 14.2.2 using mass flux (Dev)
c30



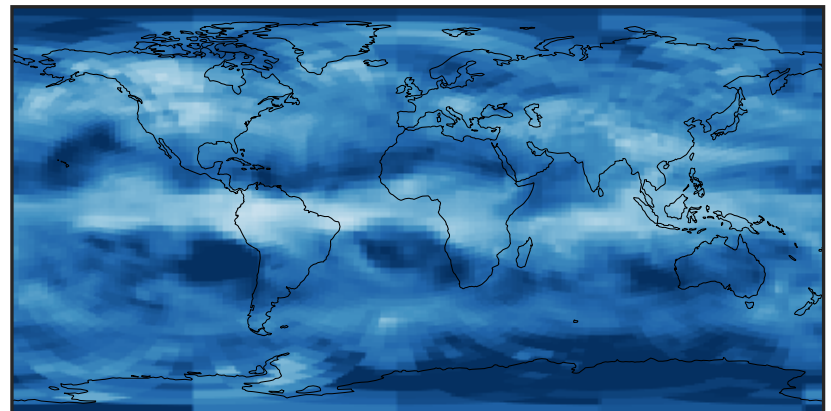
46.36 56.06 65.77 75.47 85.18
ppb

Difference (1x1.25)
Dev - Ref, Dynamic Range



-18.39 -9.19 0.00 9.19 18.39
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



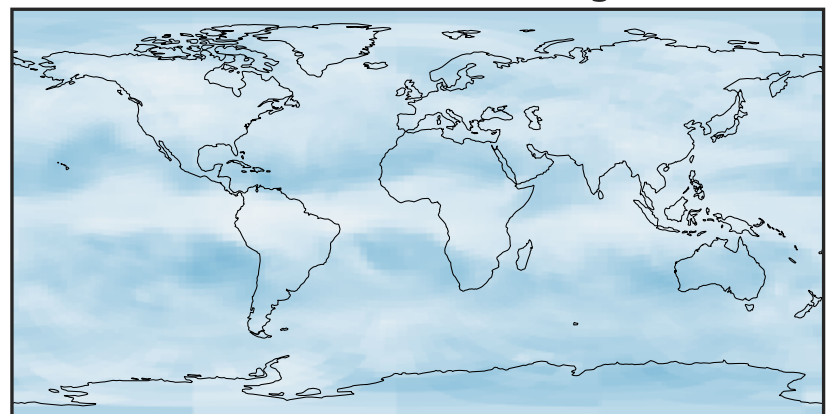
-15.08 -7.54 0.00 7.54 15.08
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.95522 0.97761 1.00000 1.02344 1.04688
unitless

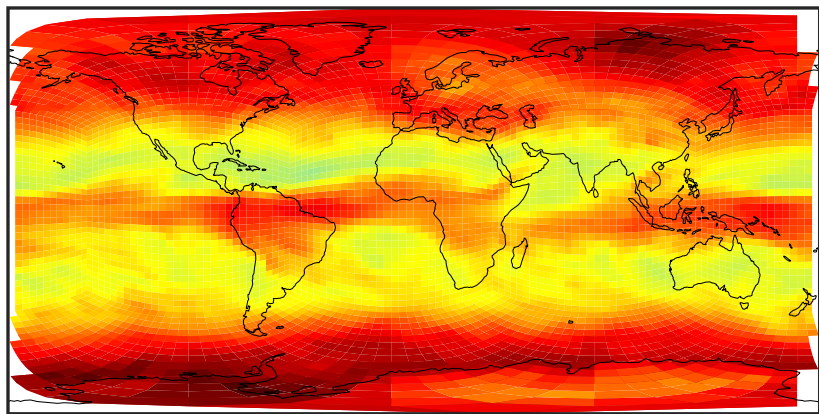
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

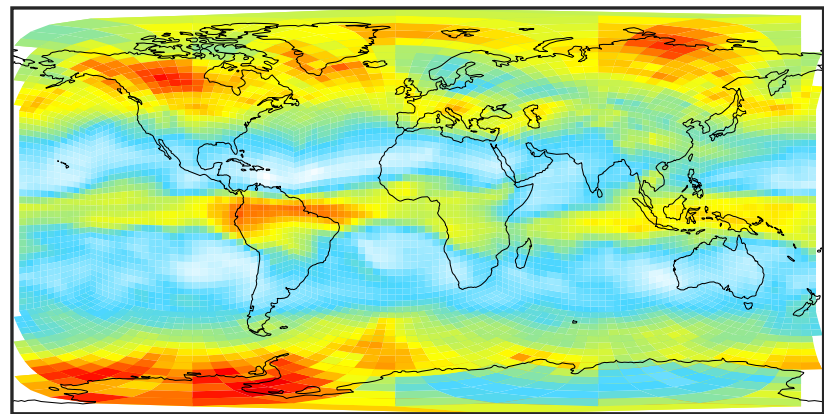
SpeciesConcVV_e90_n (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



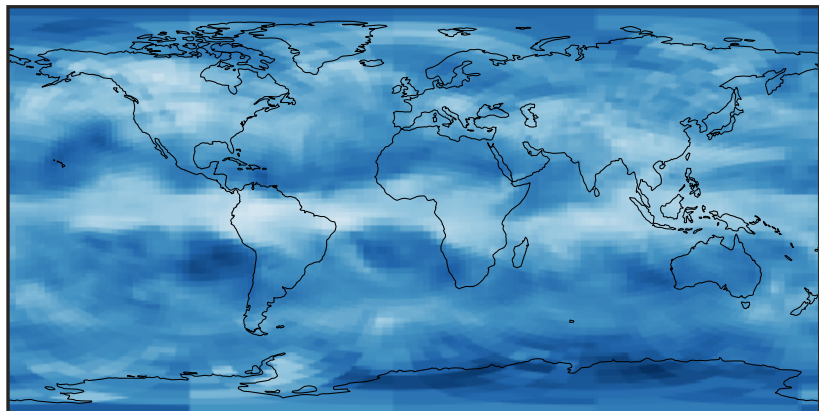
46.36 56.06 65.77 75.47 85.18
ppb

GCHP 14.2.2 using mass flux (Dev)
c30



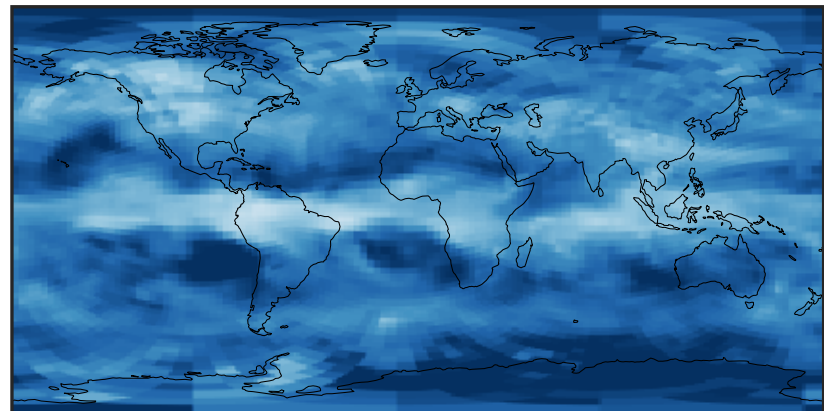
46.36 56.06 65.77 75.47 85.18
ppb

Difference (1x1.25)
Dev - Ref, Dynamic Range



-18.39 -9.19 0.00 9.19 18.39
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



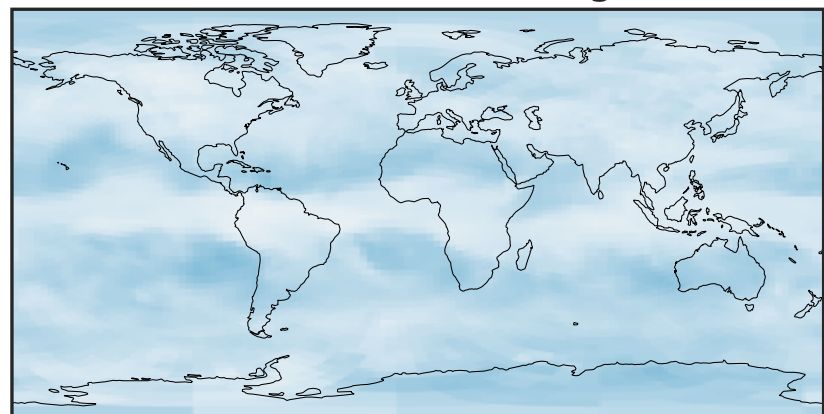
-15.08 -7.54 0.00 7.54 15.08
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.95522 0.97761 1.00000 1.02344 1.04688
unitless

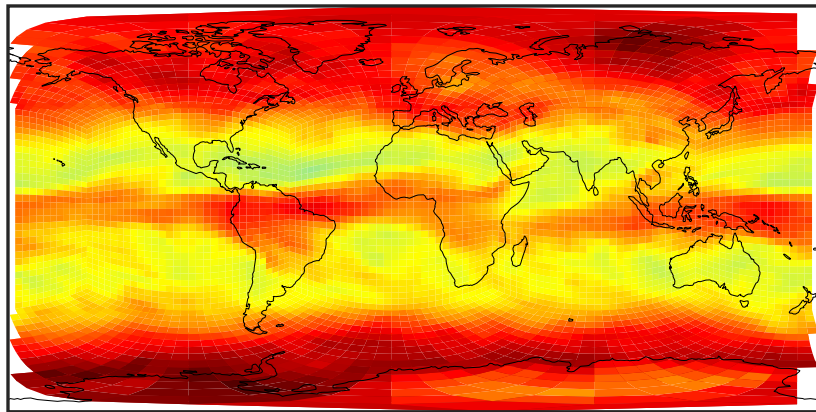
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

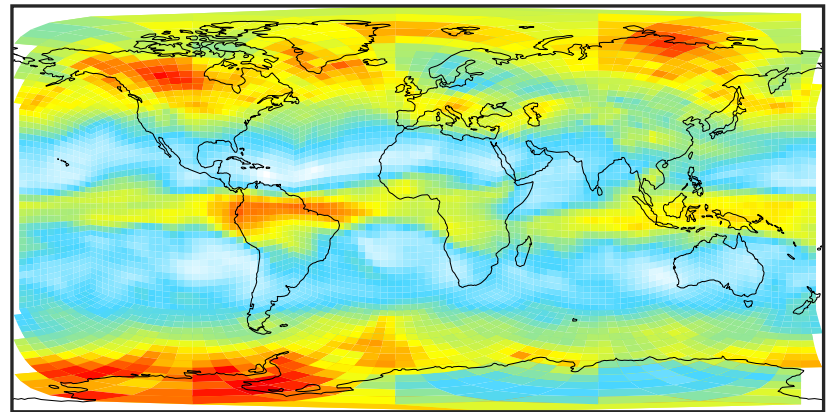
SpeciesConcVV_e90_s (Apr2019)

GCHP 14.2.2 using wind (Ref)
c30



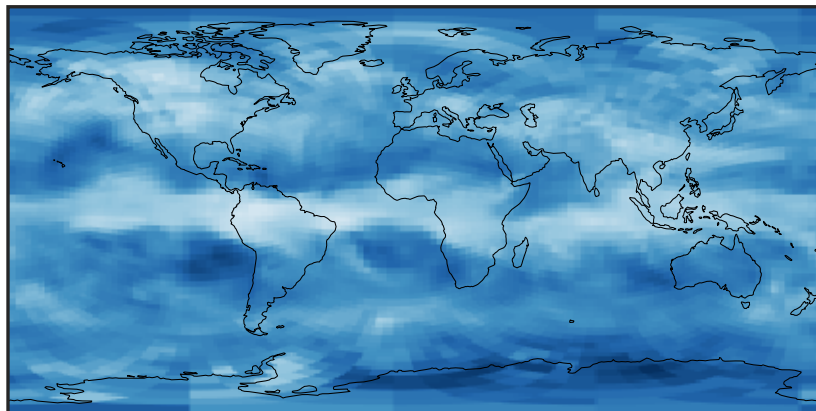
46.36 56.06 65.77 75.47 85.18
ppb

GCHP 14.2.2 using mass flux (Dev)
c30



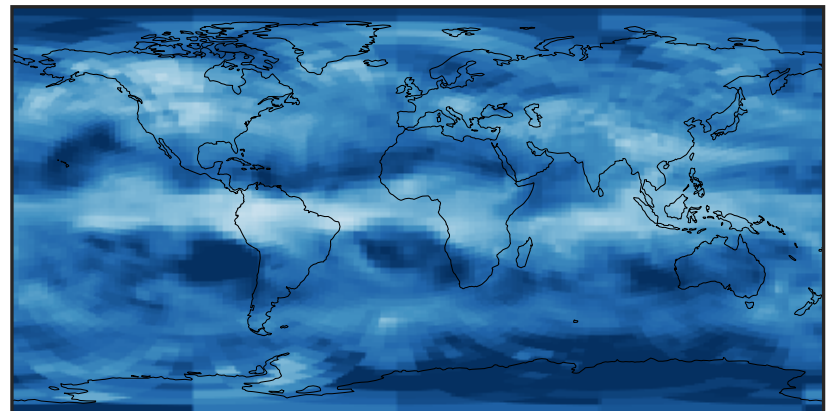
46.36 56.06 65.77 75.47 85.18
ppb

Difference (1x1.25)
Dev - Ref, Dynamic Range



-18.39 -9.19 0.00 9.19 18.39
ppb

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



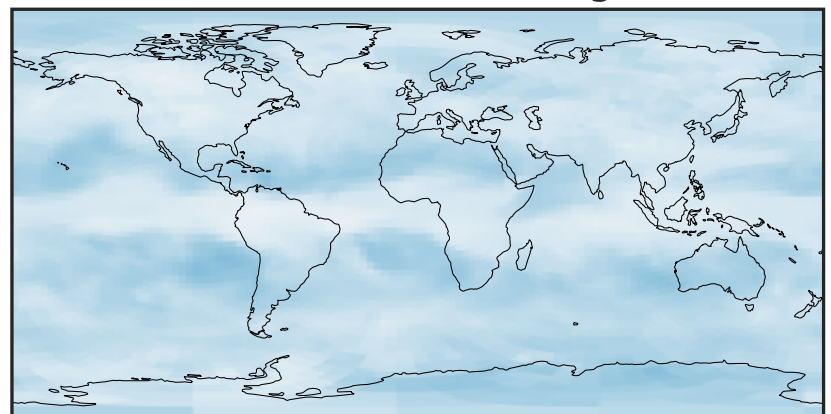
-15.08 -7.54 0.00 7.54 15.08
ppb

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.95522 0.97761 1.00000 1.02344 1.04688
unitless

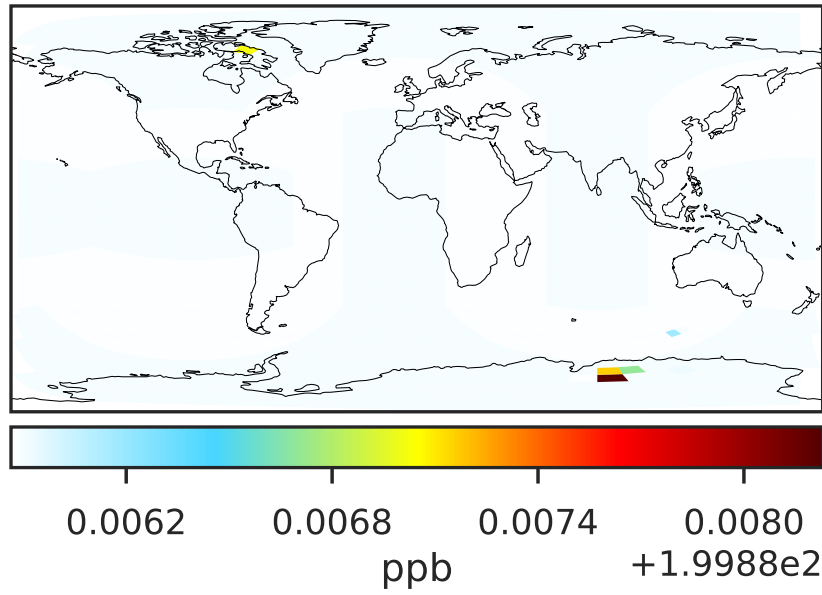
Ratio (1x1.25)
Dev/Ref, Fixed Range



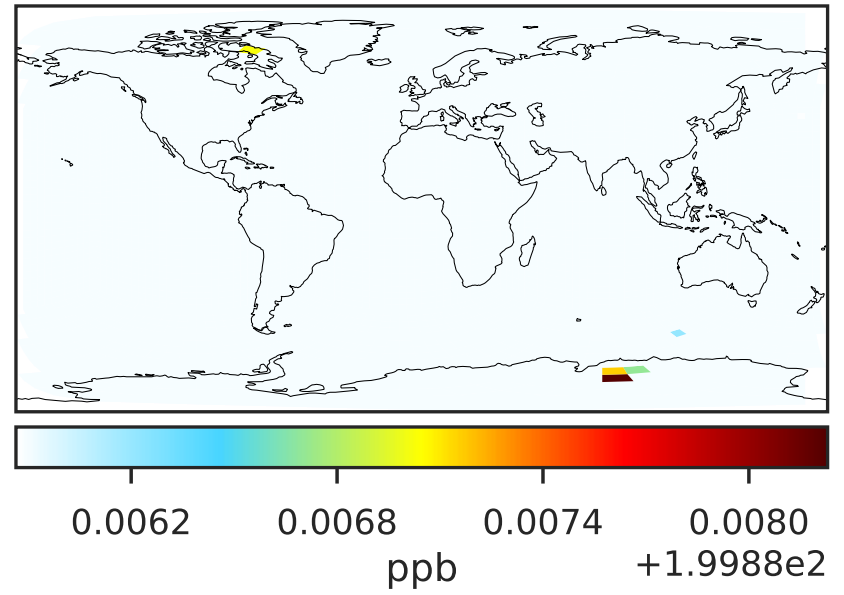
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_st80_25 (Apr2019)

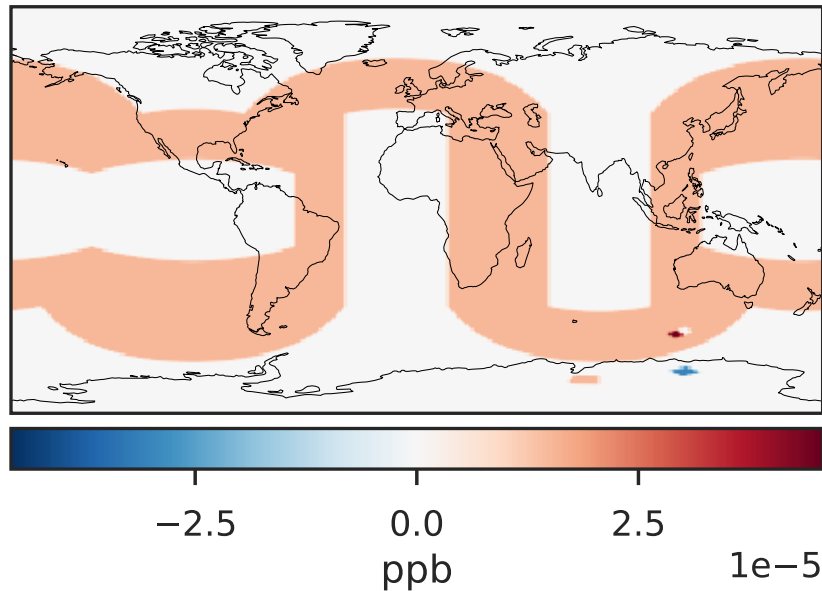
GCHP 14.2.2 using wind (Ref)
c30



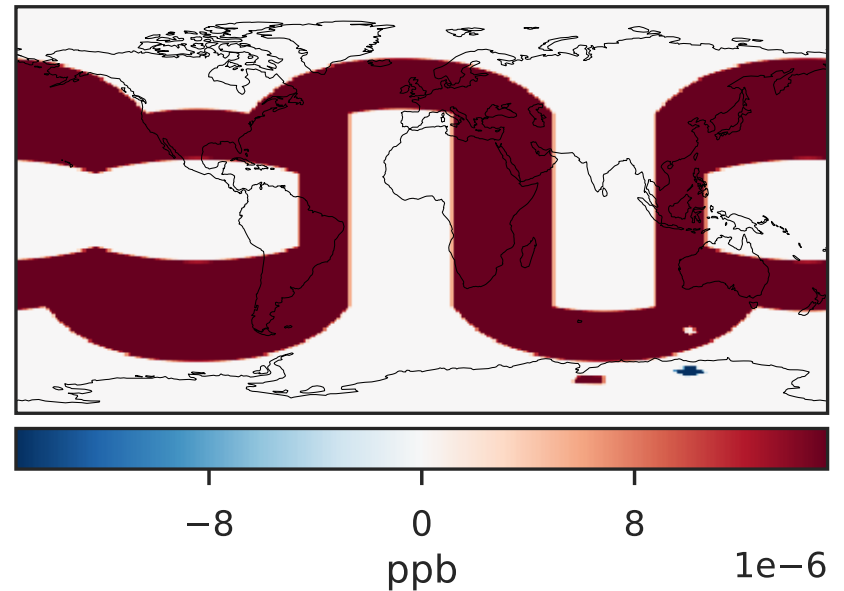
GCHP 14.2.2 using mass flux (Dev)
c30



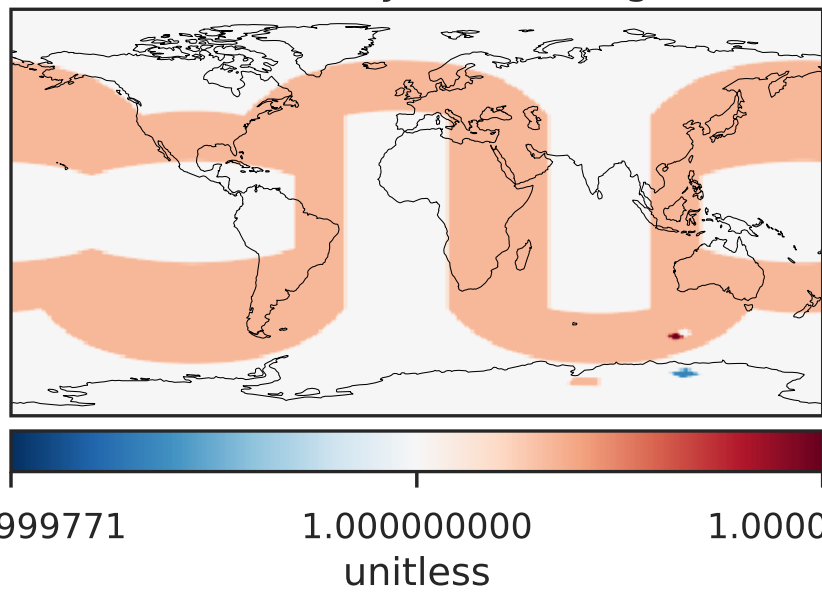
Difference (1x1.25)
Dev - Ref, Dynamic Range



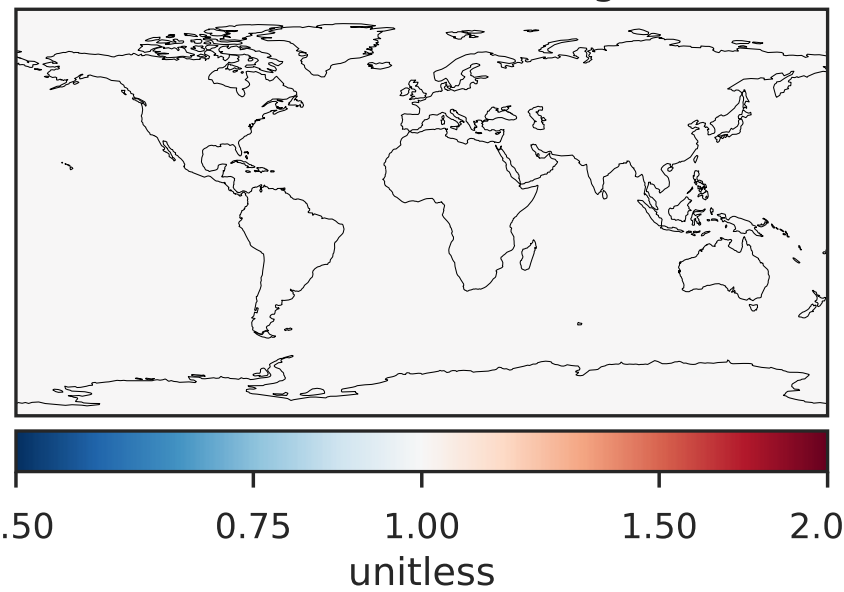
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range



Ratio (1x1.25)
Dev/Ref, Fixed Range



0.99999771

1.00000000

1.00000229 0.50

unitless

0.75

1.00

1.50

2.00

unitless