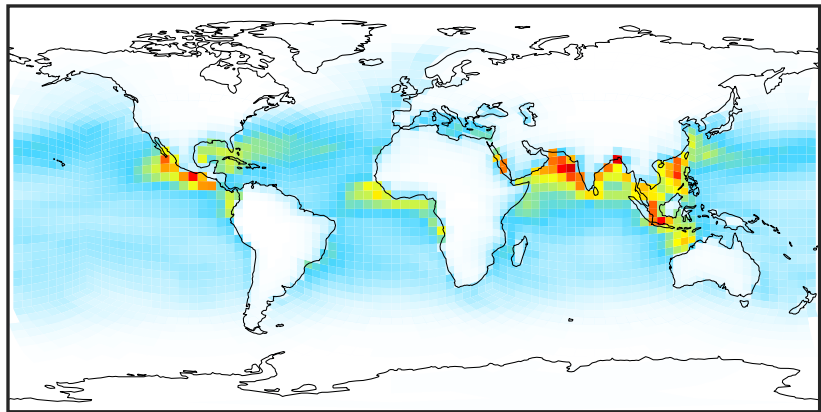


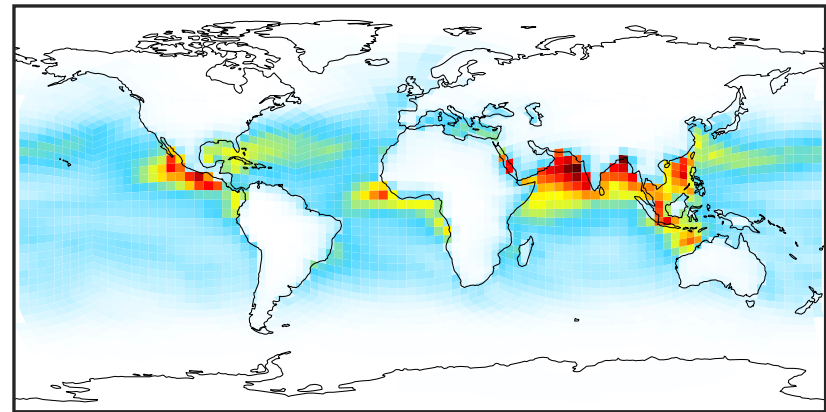
SpeciesConcVV_Iy (Apr2019)

GCHP_14.0.0 (Ref)
c24



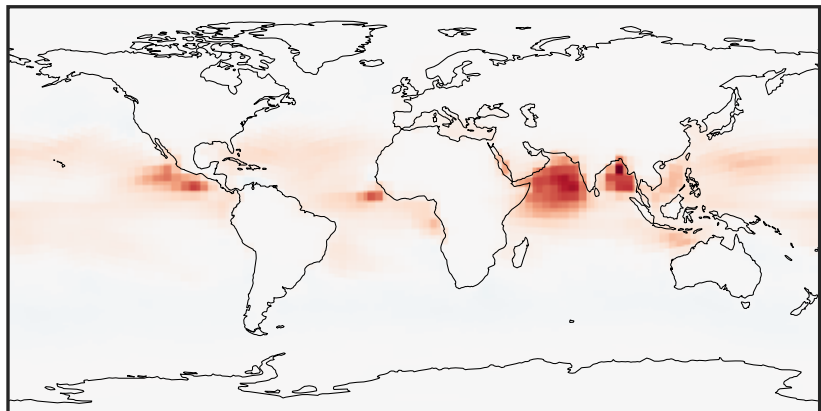
0.008 0.016 0.024
ppb

GCHP_14.2.0 (Dev)
c24



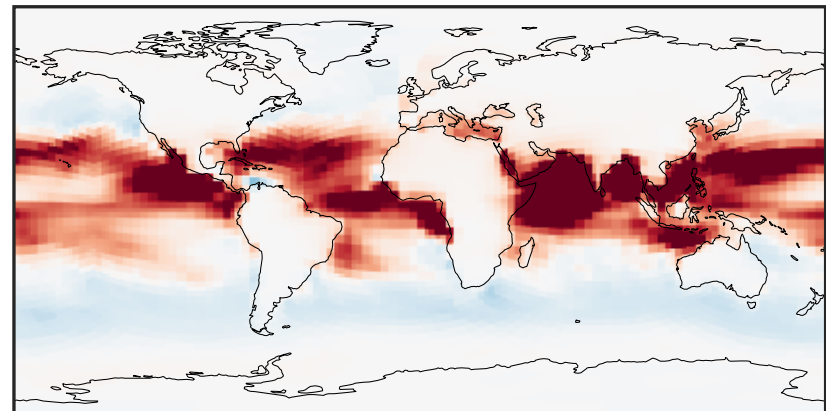
0.008 0.016 0.024
ppb

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



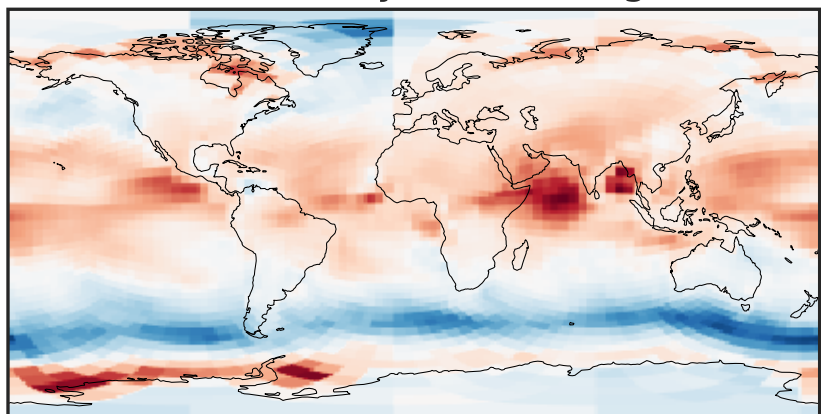
-0.004 0.000 0.004
ppb

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



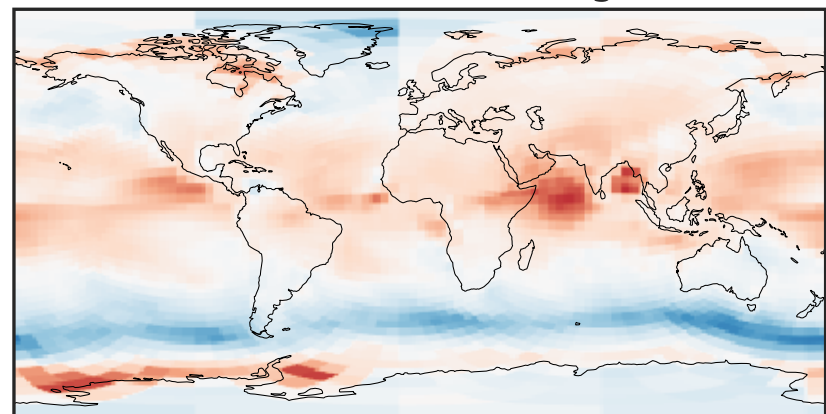
-0.0006 0.0000 0.0006
ppb

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



0.601 0.800 1.000 1.332 1.664
unitless

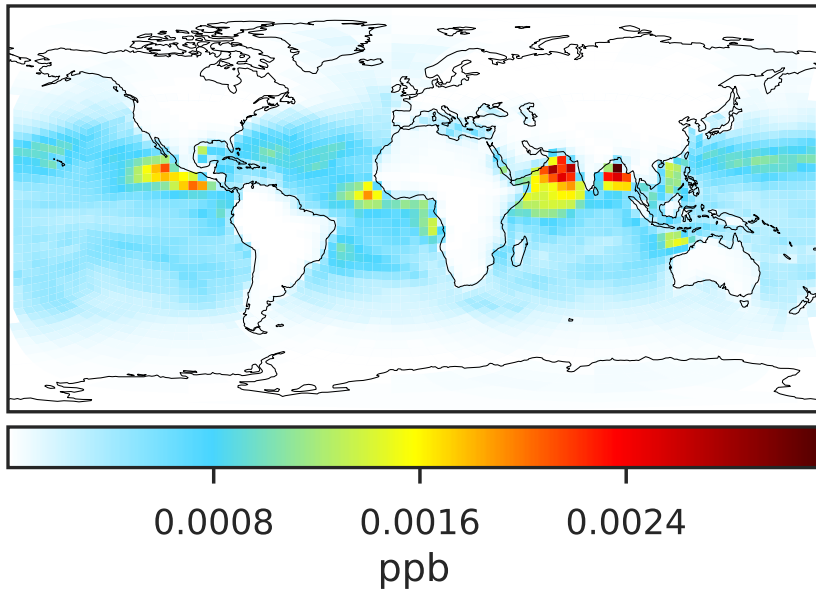
Ratio (1x1.25)
Dev/Ref, Fixed Range



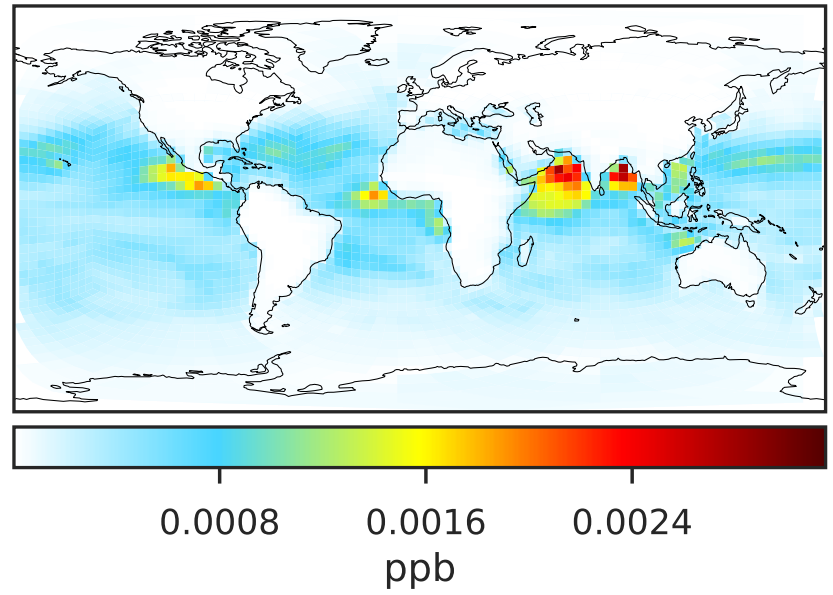
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_IxOy (Apr2019)

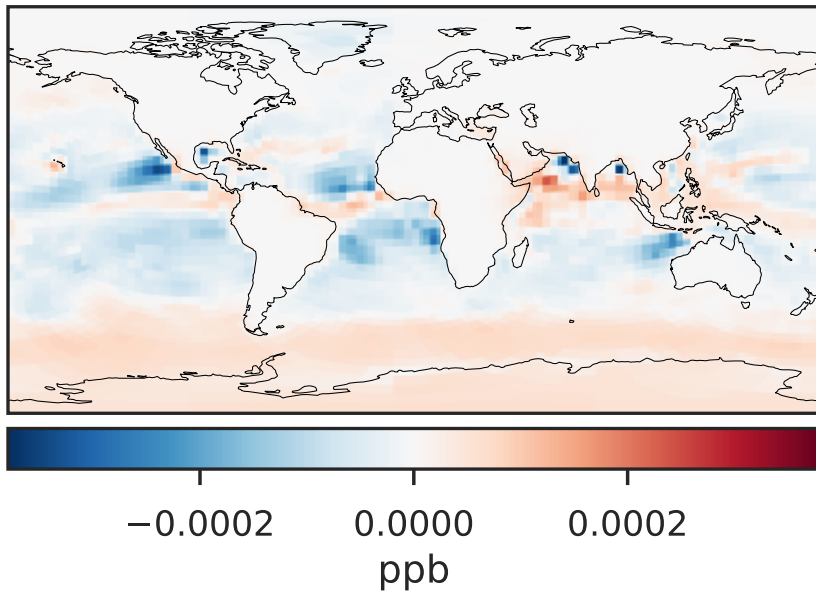
GCHP_14.0.0 (Ref)
c24



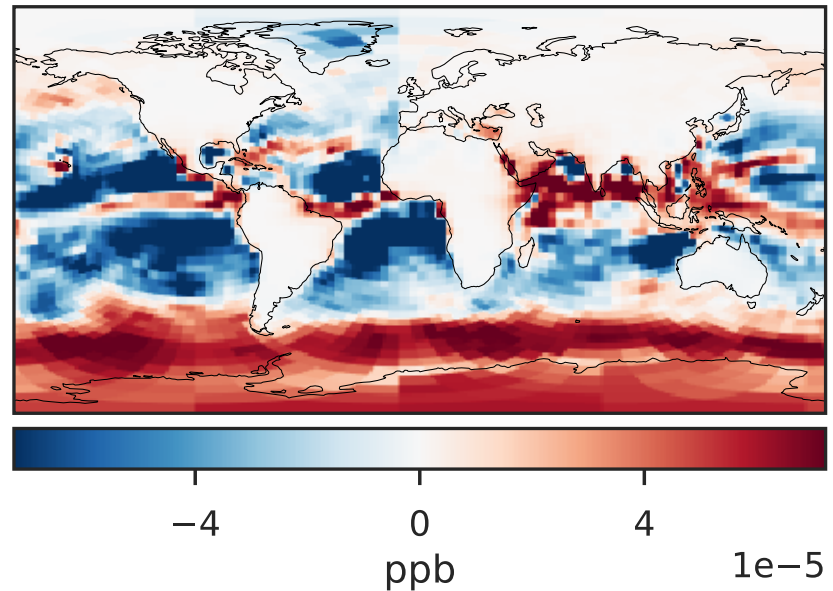
GCHP_14.2.0 (Dev)
c24



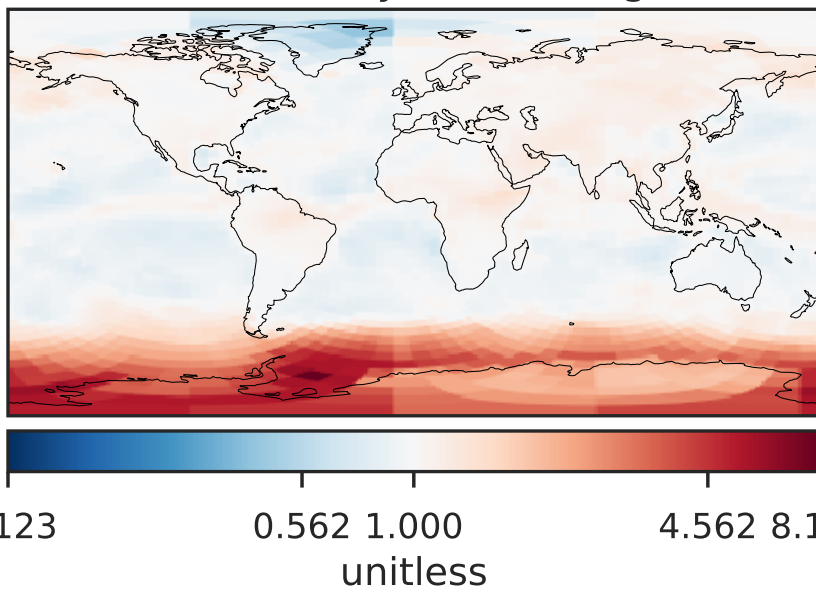
Difference (1x1.25)
Dev - Ref, Dynamic Range



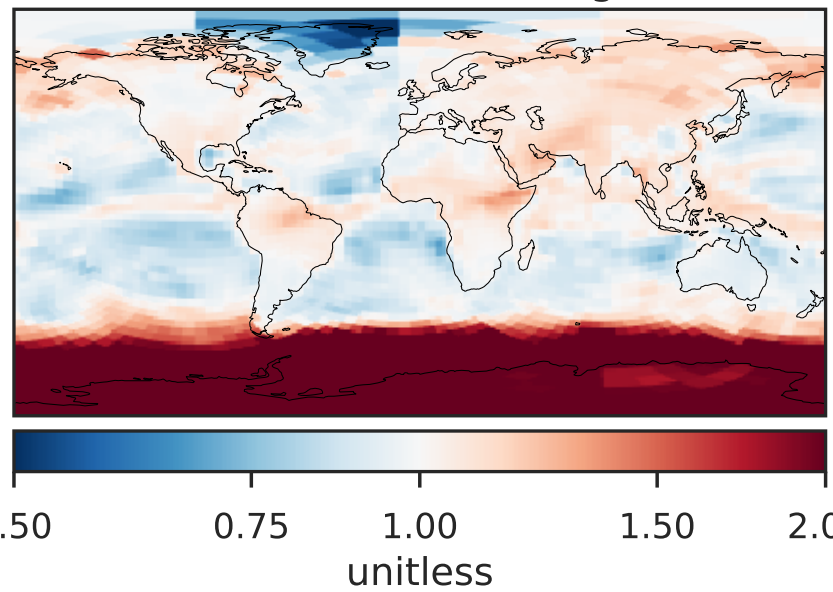
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

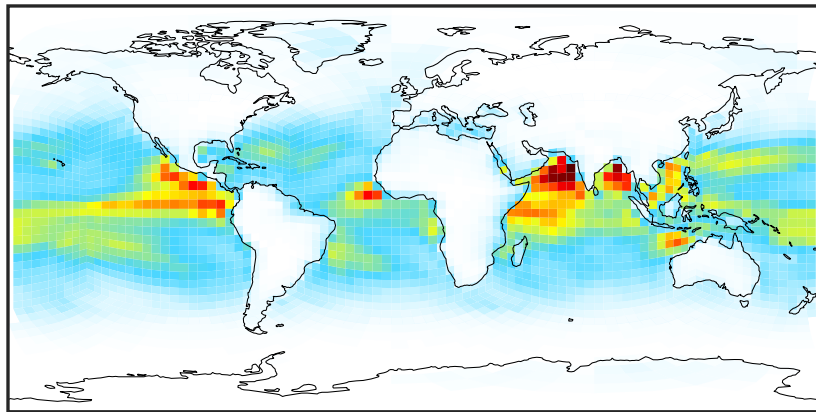


Ratio (1x1.25)
Dev/Ref, Fixed Range



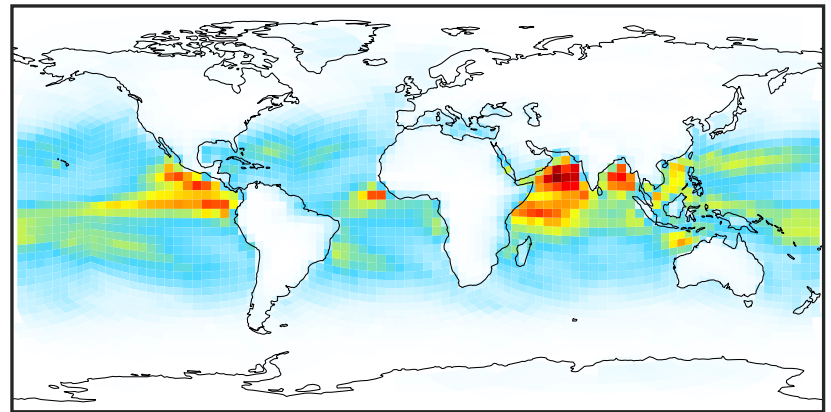
SpeciesConcVW_I (Apr2019)

GCHP_14.0.0 (Ref)
c24



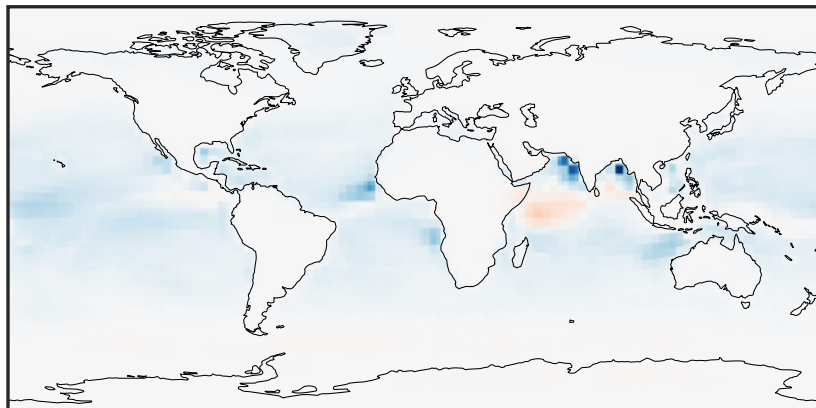
0.00015 0.00030 0.00045
ppb

GCHP_14.2.0 (Dev)
c24



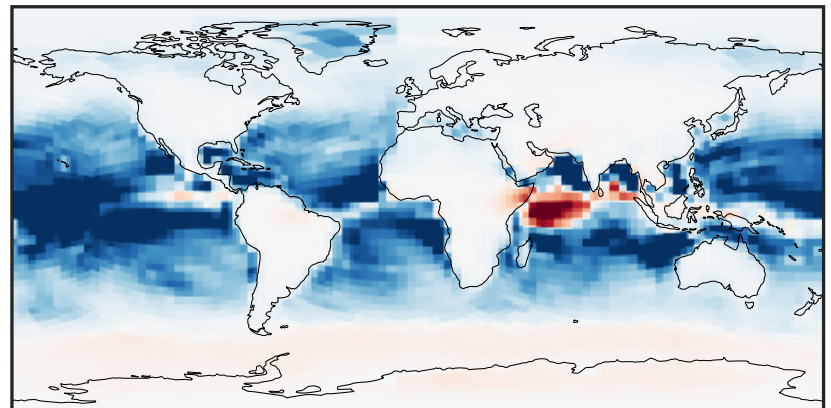
0.00015 0.00030 0.00045
ppb

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



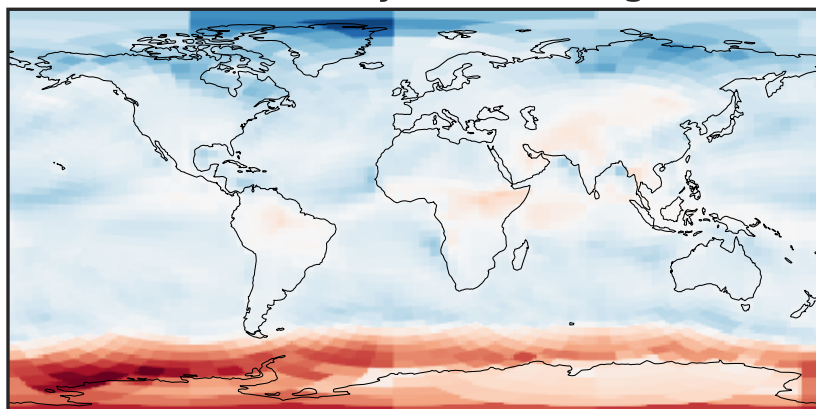
-8 0 8
ppb $1e-5$

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



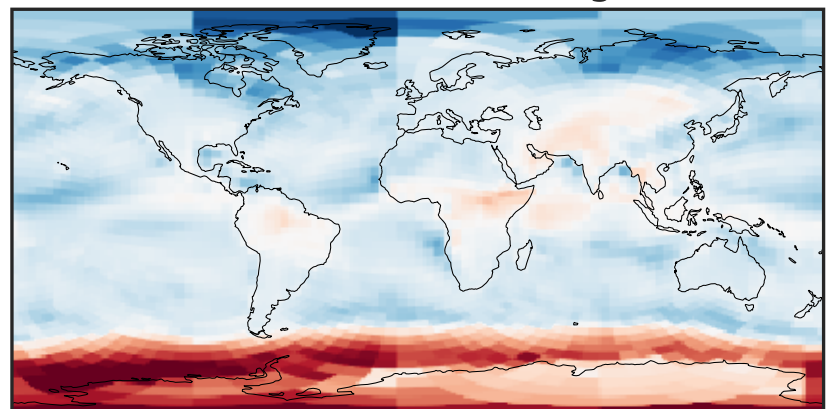
-1 0 1
ppb $1e-5$

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



0.383 0.691 1.000 1.806 2.612
unitless

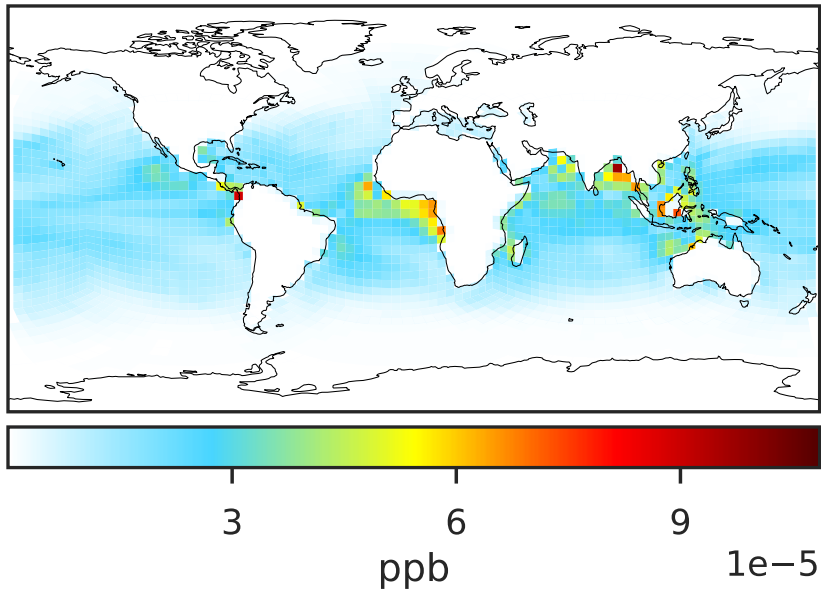
Ratio (1x1.25)
Dev/Ref, Fixed Range



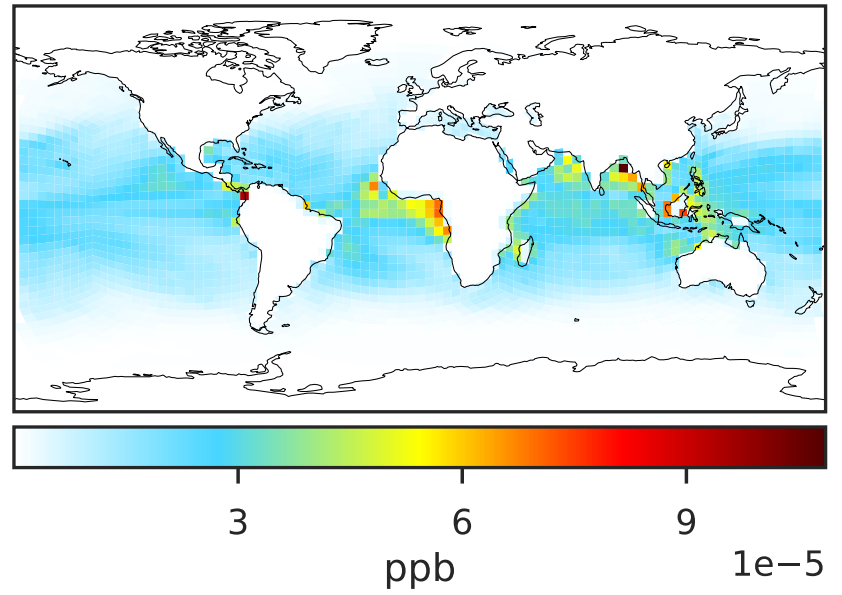
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_I2 (Apr2019)

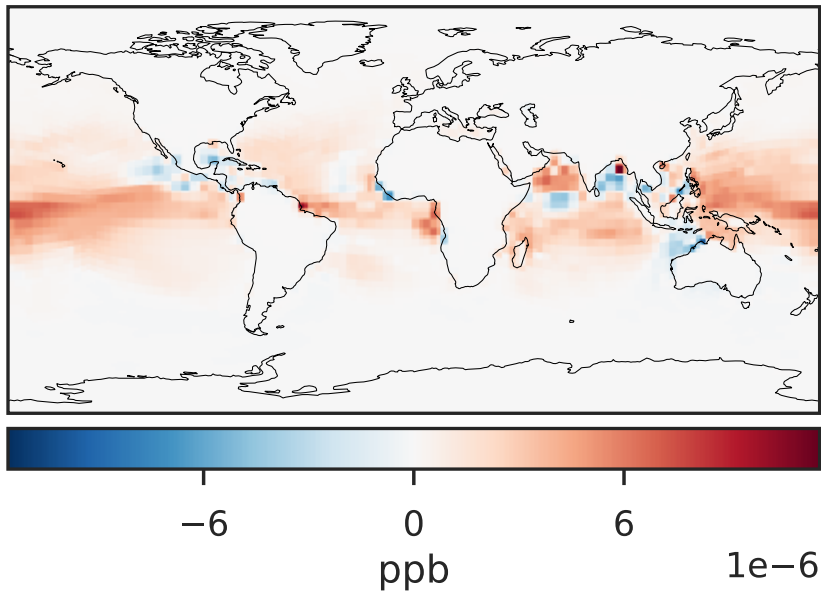
GCHP_14.0.0 (Ref)
c24



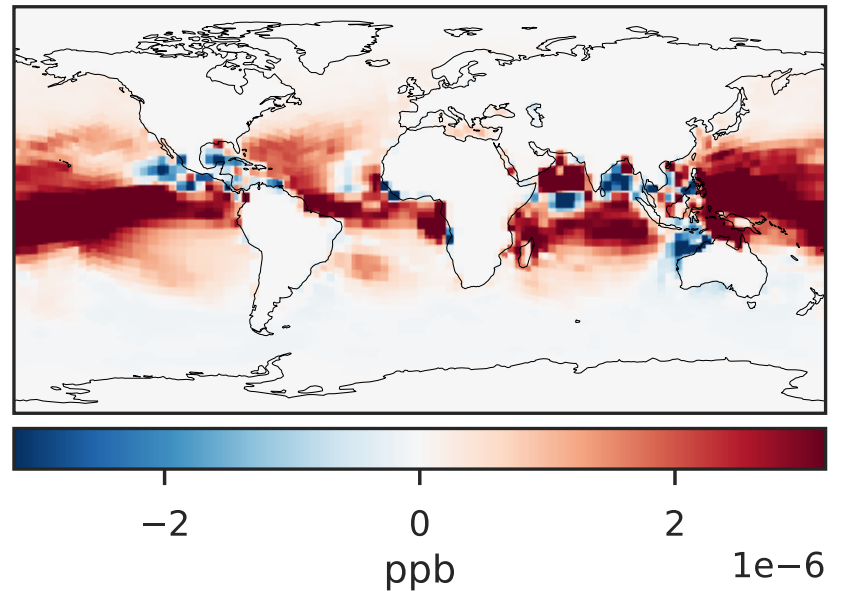
GCHP_14.2.0 (Dev)
c24



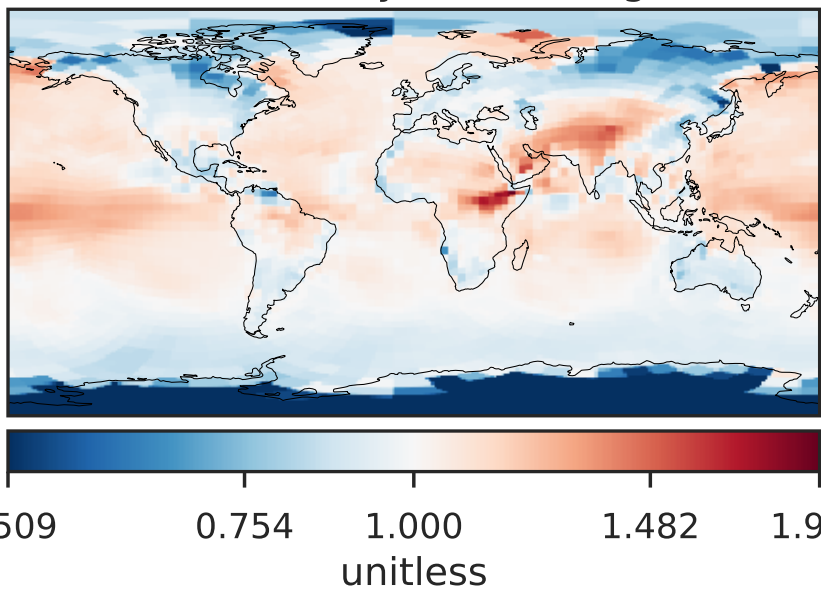
Difference (1x1.25)
Dev - Ref, Dynamic Range



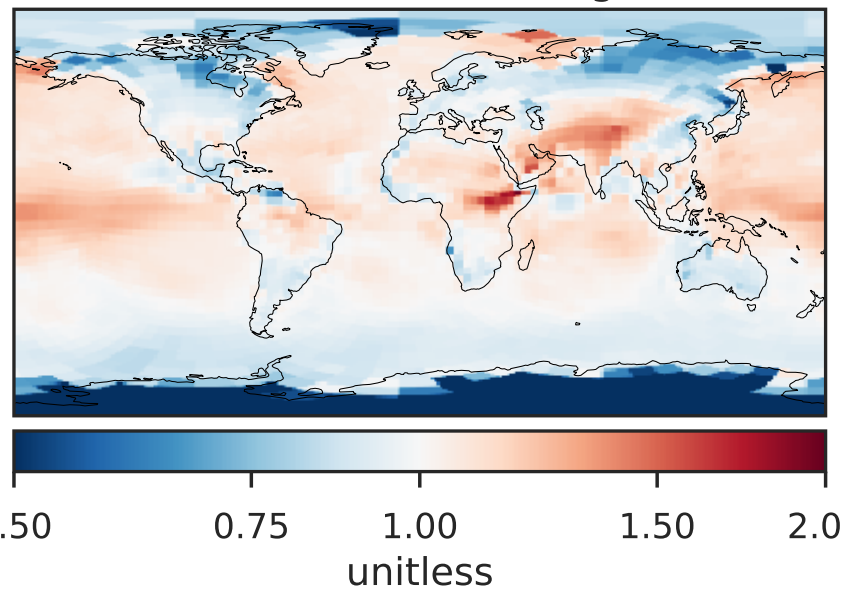
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

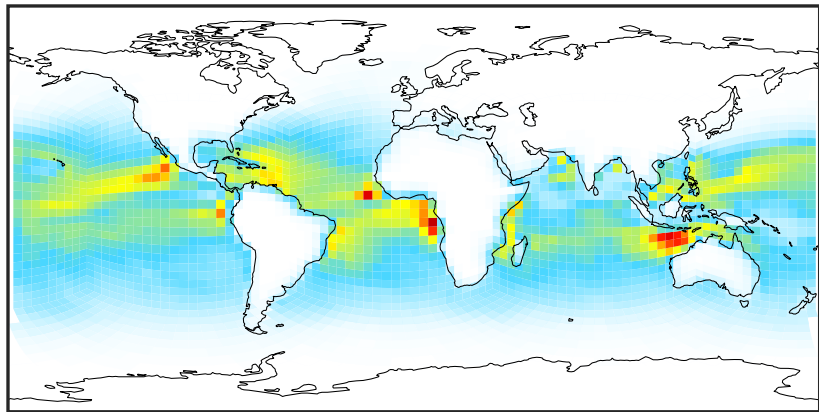


Ratio (1x1.25)
Dev/Ref, Fixed Range



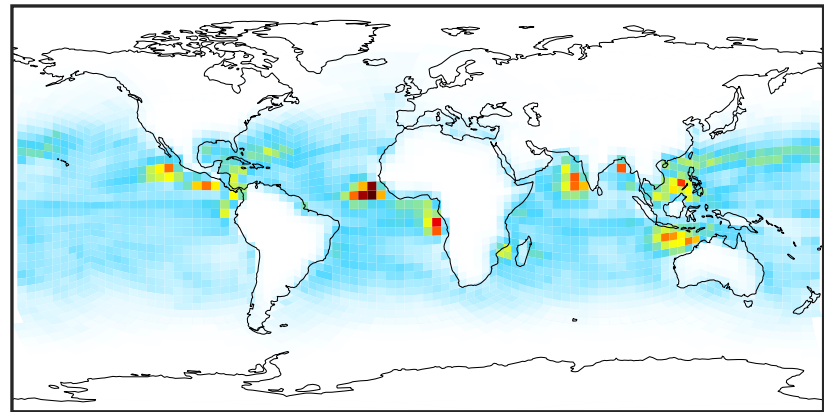
SpeciesConcVV_IBr (Apr2019)

GCHP_14.0.0 (Ref)
c24



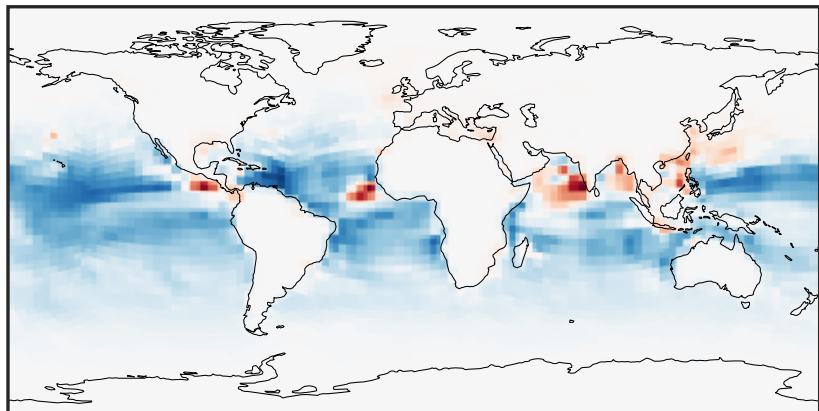
0.00008 0.00016 0.00024
ppb

GCHP_14.2.0 (Dev)
c24



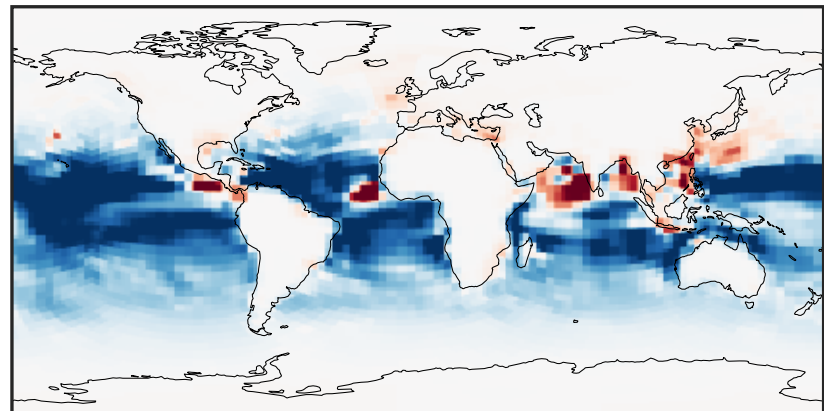
0.00008 0.00016 0.00024
ppb

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



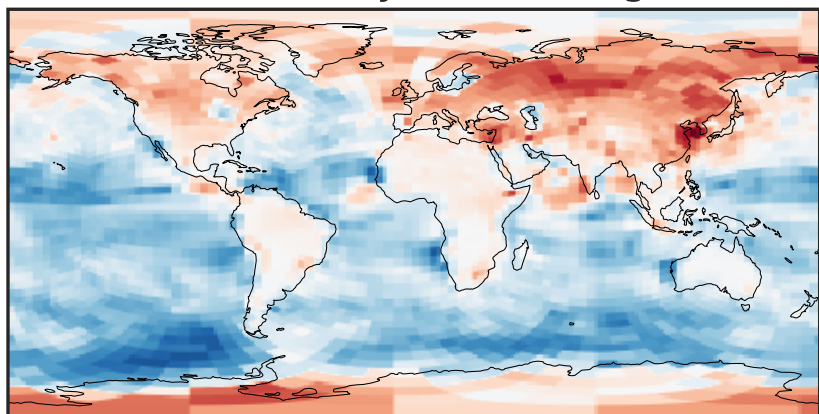
-6 0 6
ppb $1e-5$

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



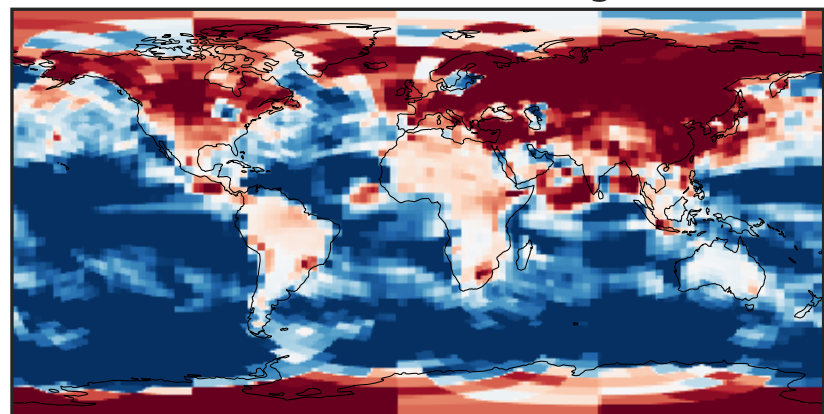
-2.5 0.0 2.5
ppb $1e-5$

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



0.124 0.562 1.000 4.520 8.041
unitless

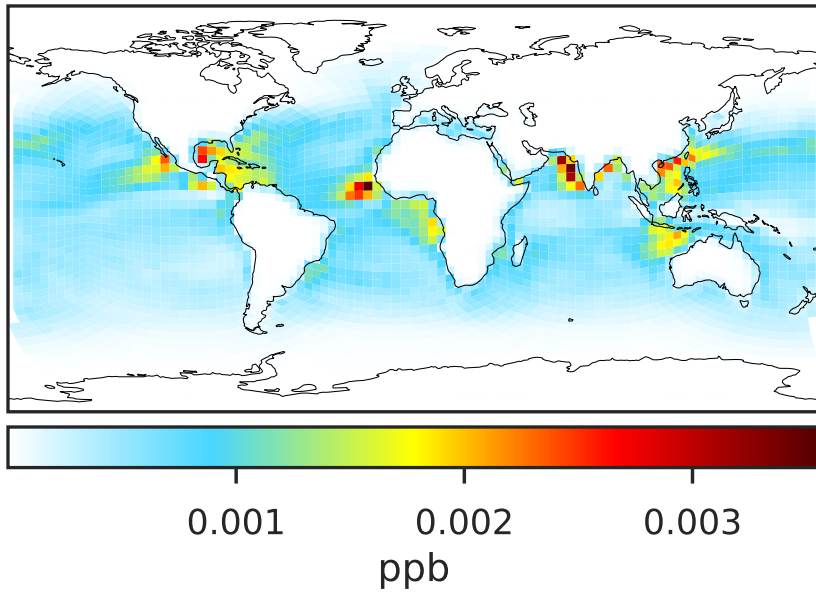
Ratio (1x1.25)
Dev/Ref, Fixed Range



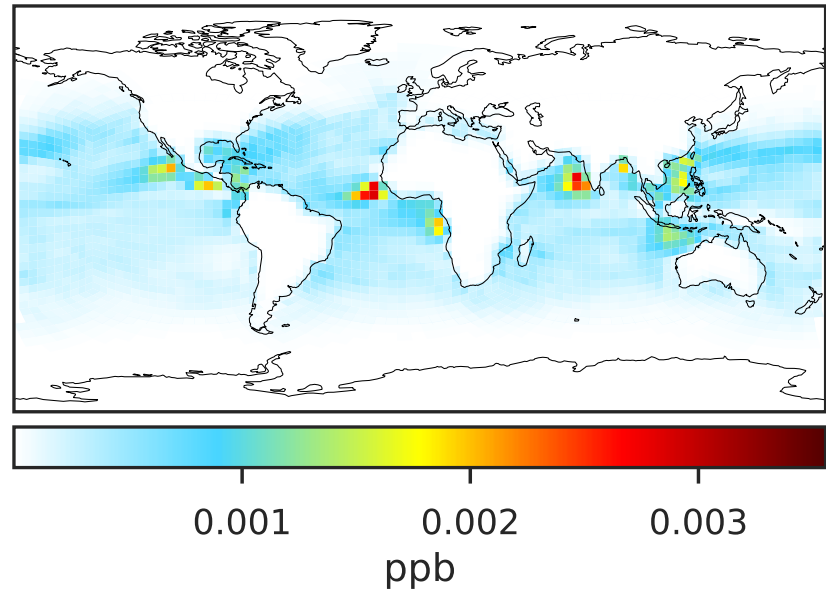
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_ICI (Apr2019)

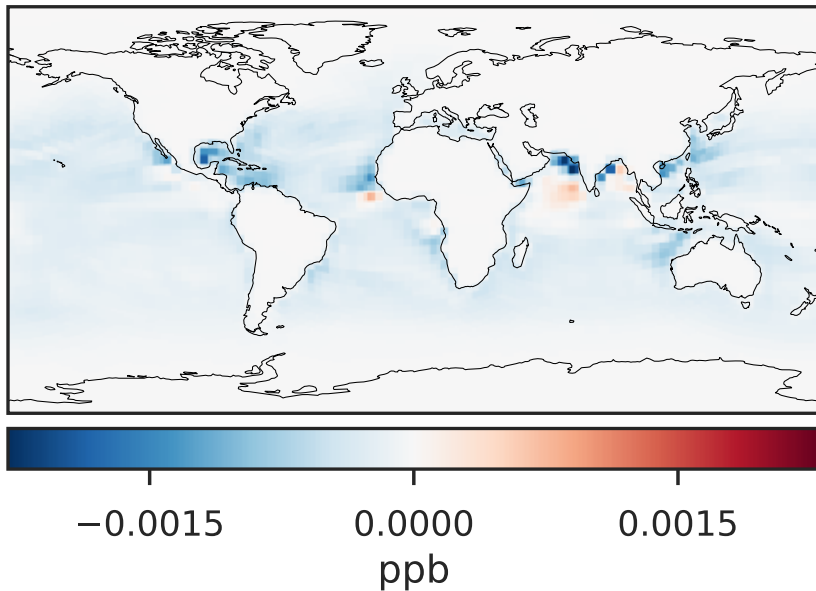
GCHP_14.0.0 (Ref)
c24



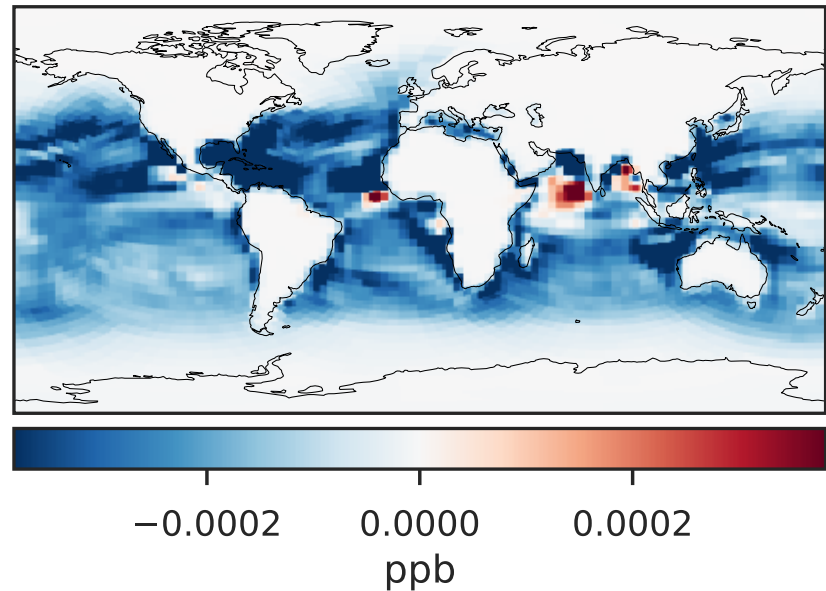
GCHP_14.2.0 (Dev)
c24



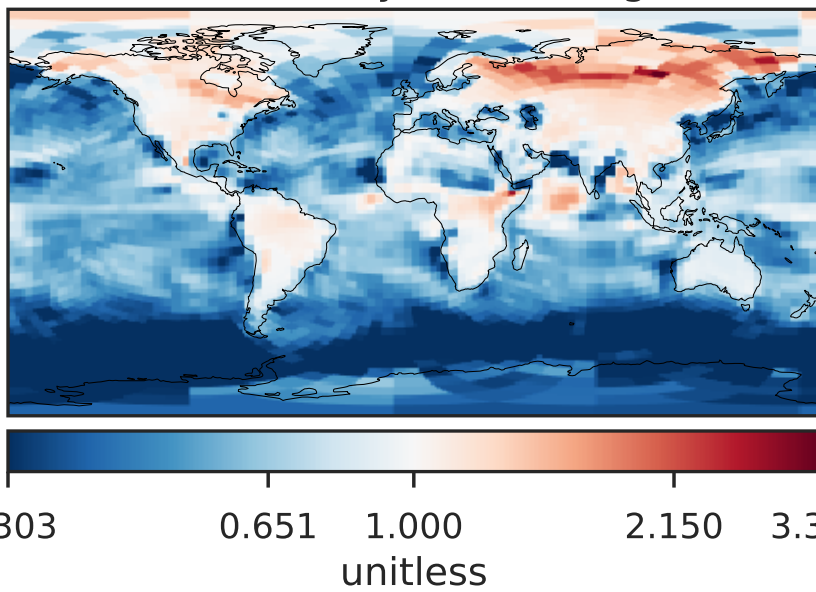
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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

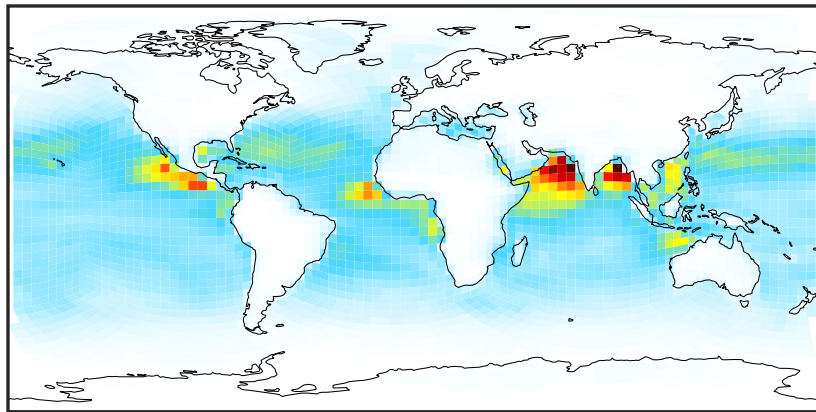


Ratio (1x1.25)
Dev/Ref, Fixed Range



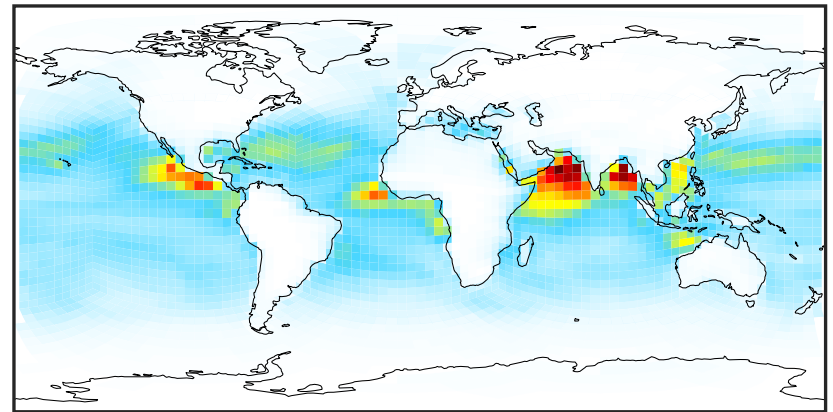
SpeciesConcVV_IO (Apr2019)

GCHP_14.0.0 (Ref)
c24



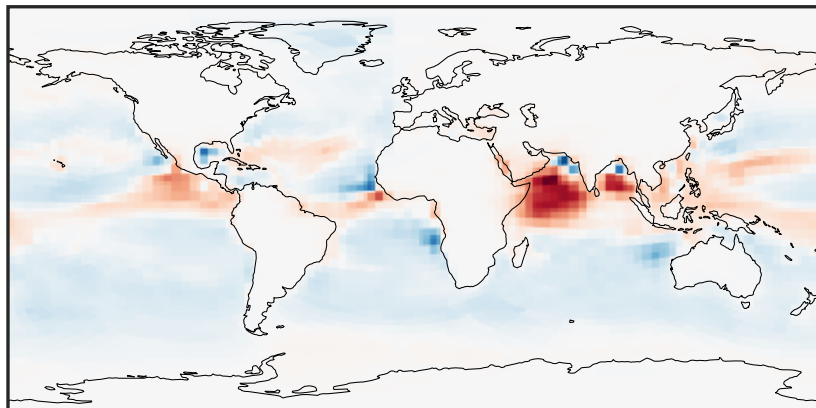
0.0006 0.0012 0.0018
ppb

GCHP_14.2.0 (Dev)
c24



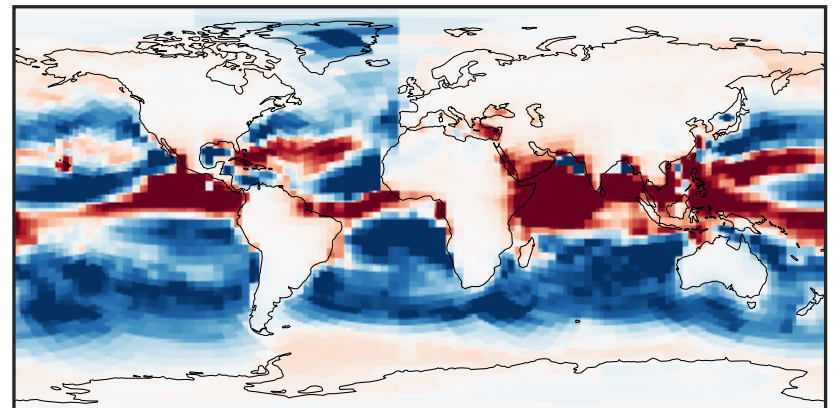
0.0006 0.0012 0.0018
ppb

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



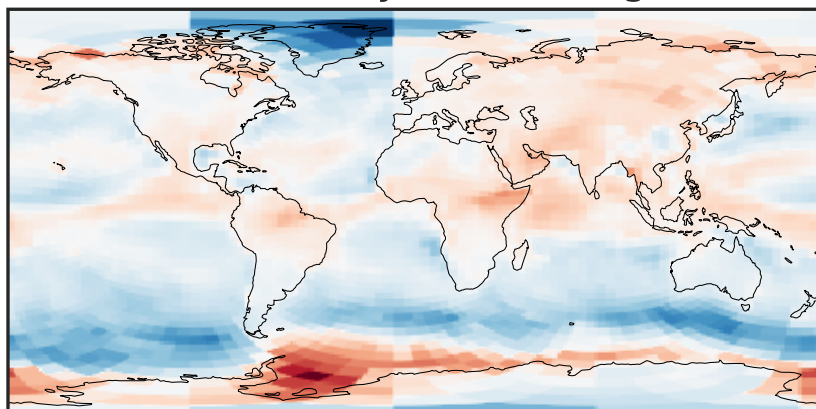
-0.00015 0.00000 0.00015
ppb

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



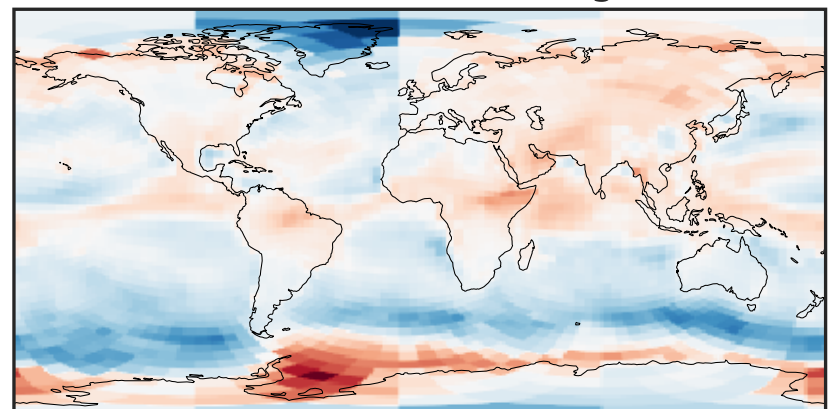
-2 0 2
ppb $1e-5$

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



0.491 0.746 1.000 1.517 2.035
unitless

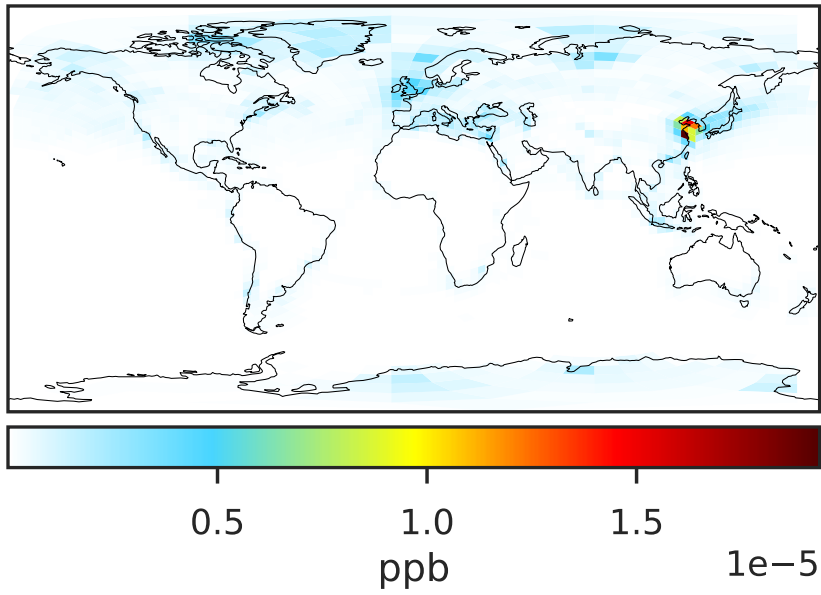
Ratio (1x1.25)
Dev/Ref, Fixed Range



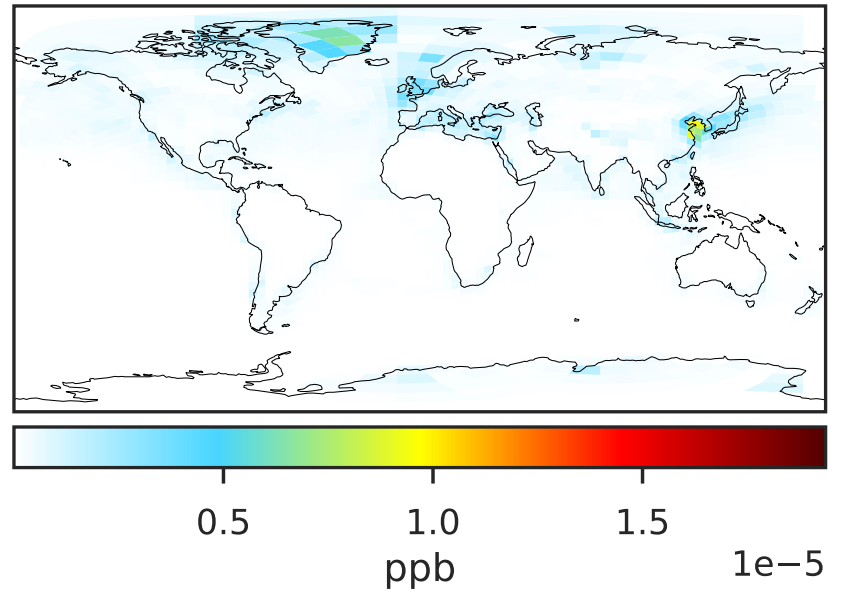
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_IONO (Apr2019)

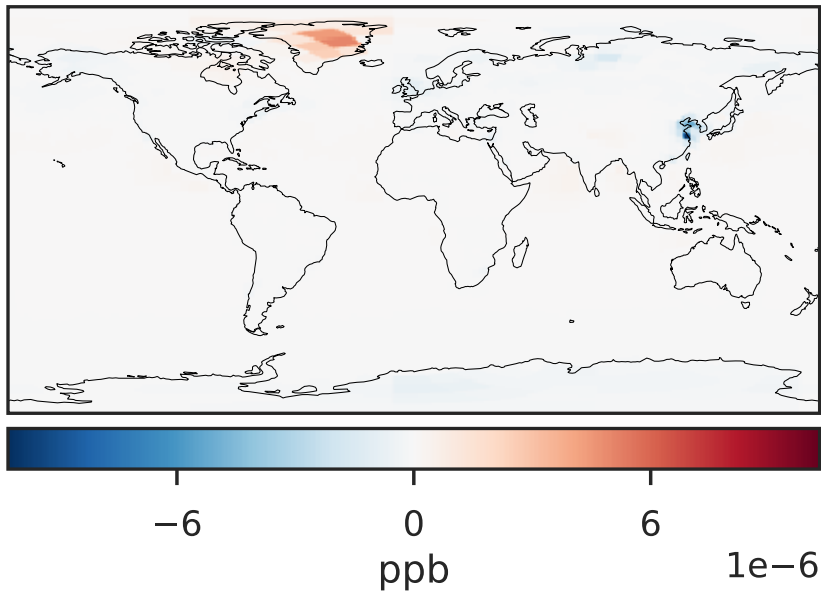
GCHP_14.0.0 (Ref)
c24



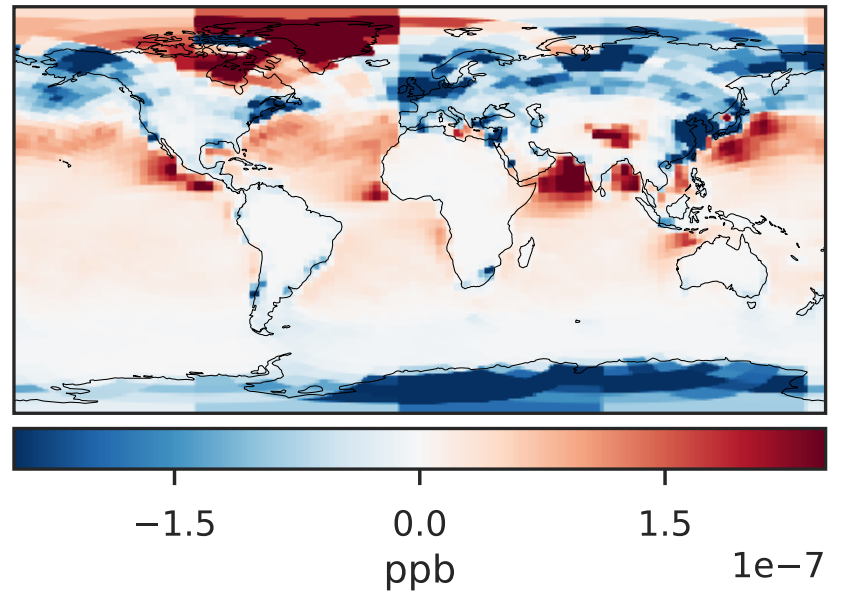
GCHP_14.2.0 (Dev)
c24



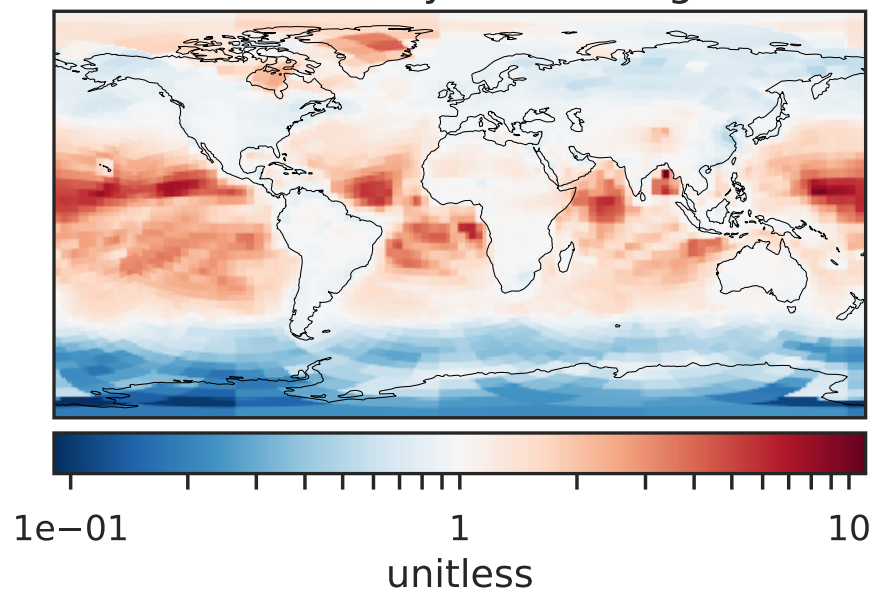
Difference (1x1.25)
Dev - Ref, Dynamic Range



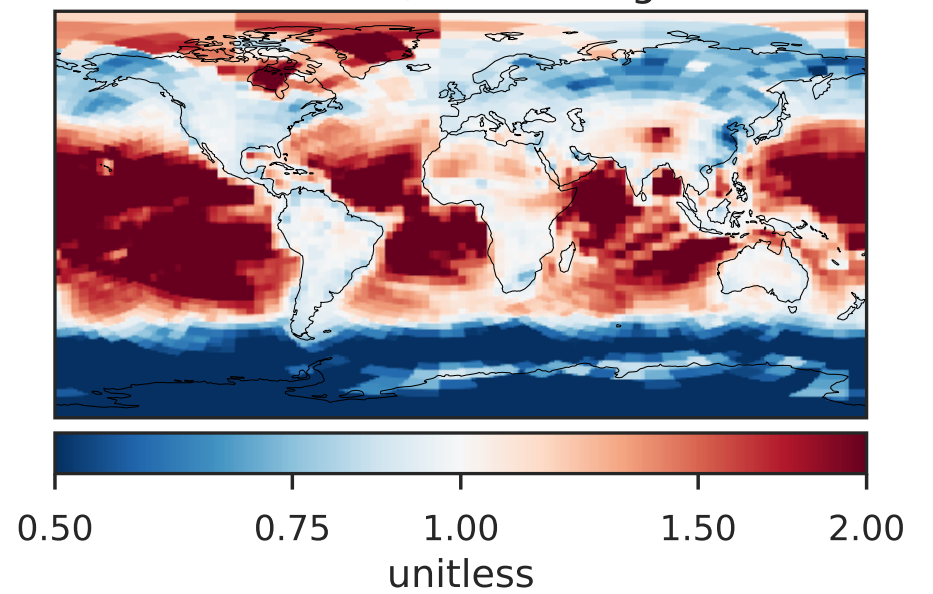
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

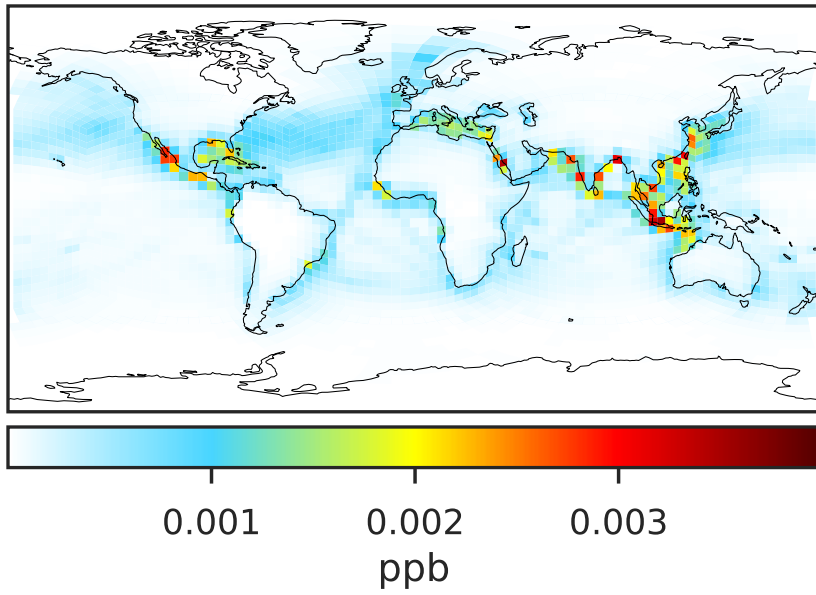


Ratio (1x1.25)
Dev/Ref, Fixed Range

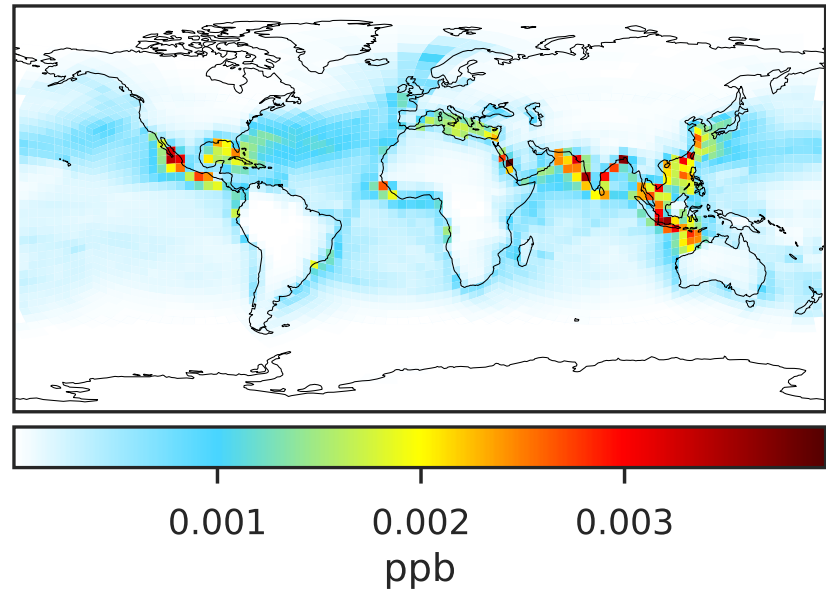


SpeciesConcVV_IONO2 (Apr2019)

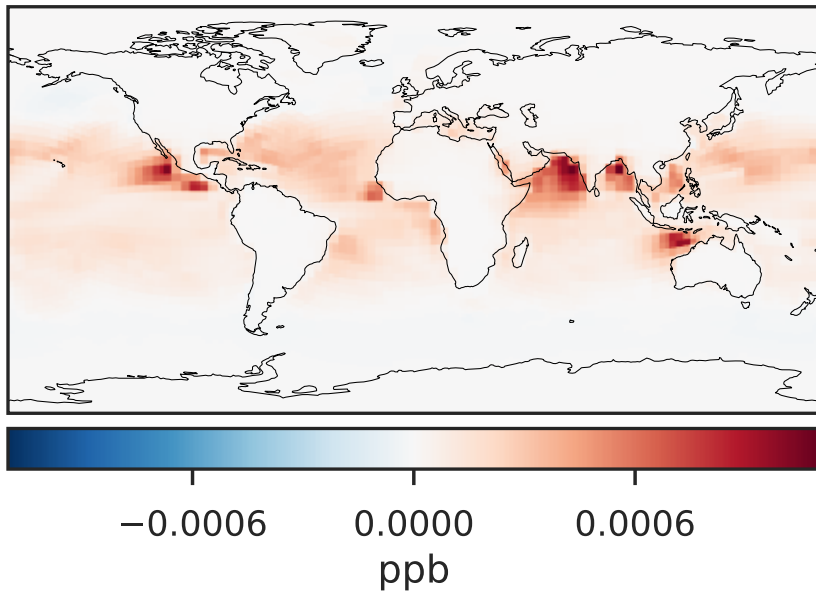
GCHP_14.0.0 (Ref)
c24



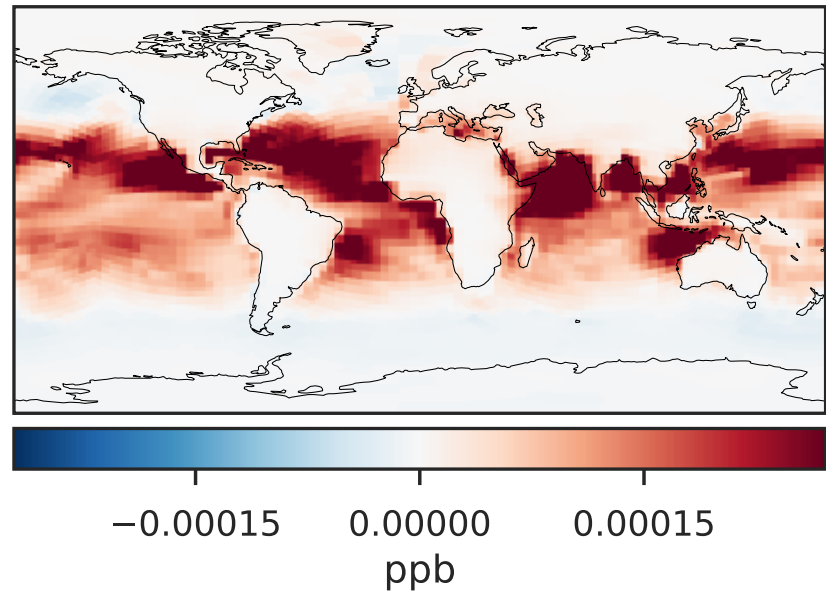
GCHP_14.2.0 (Dev)
c24



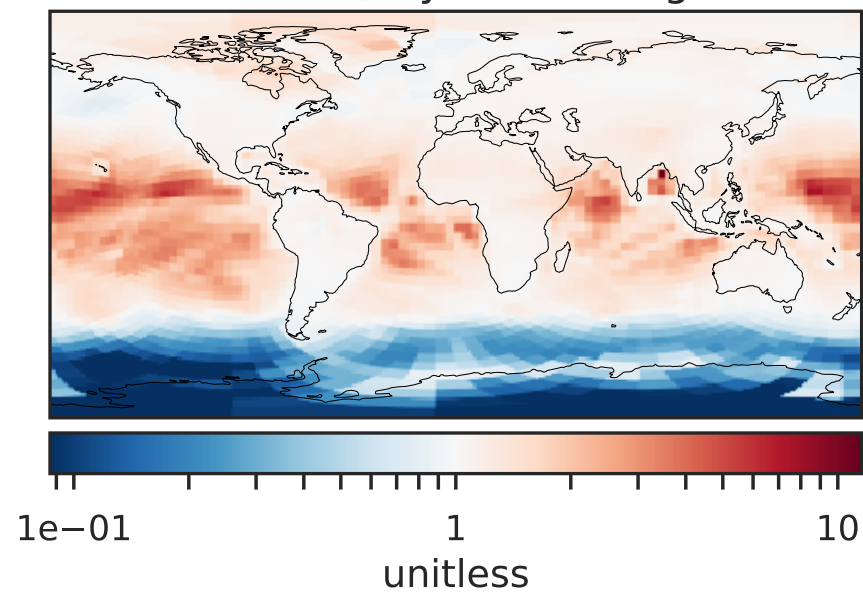
Difference (1x1.25)
Dev - Ref, Dynamic Range



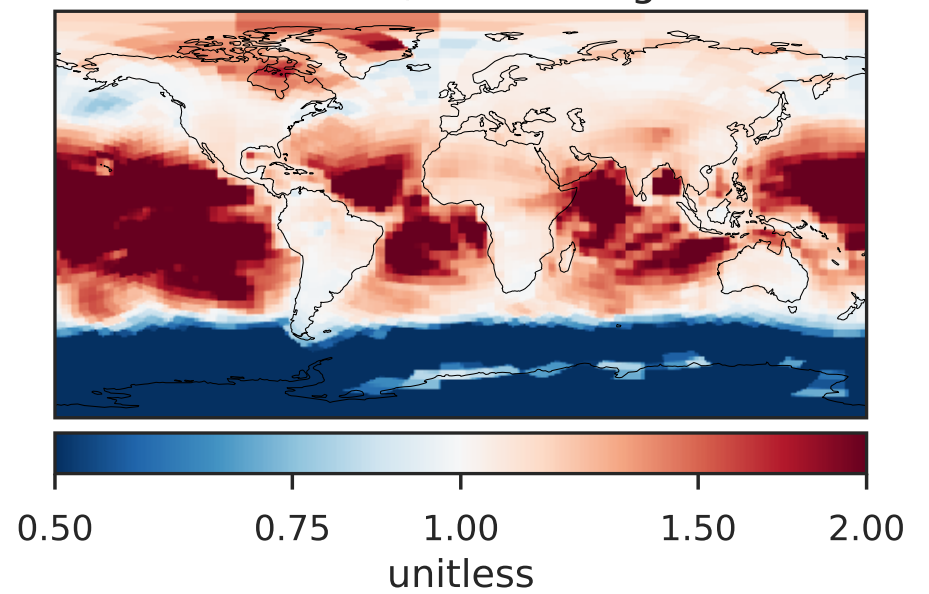
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

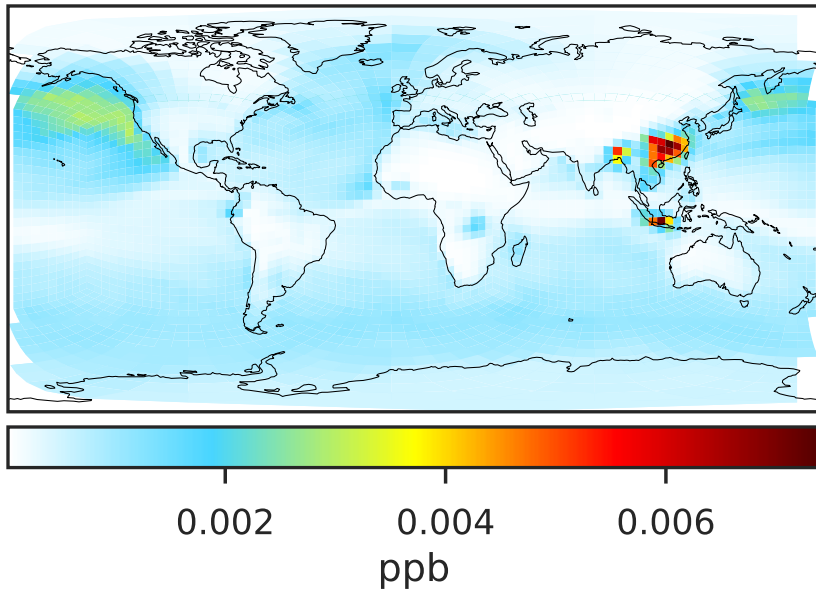


Ratio (1x1.25)
Dev/Ref, Fixed Range

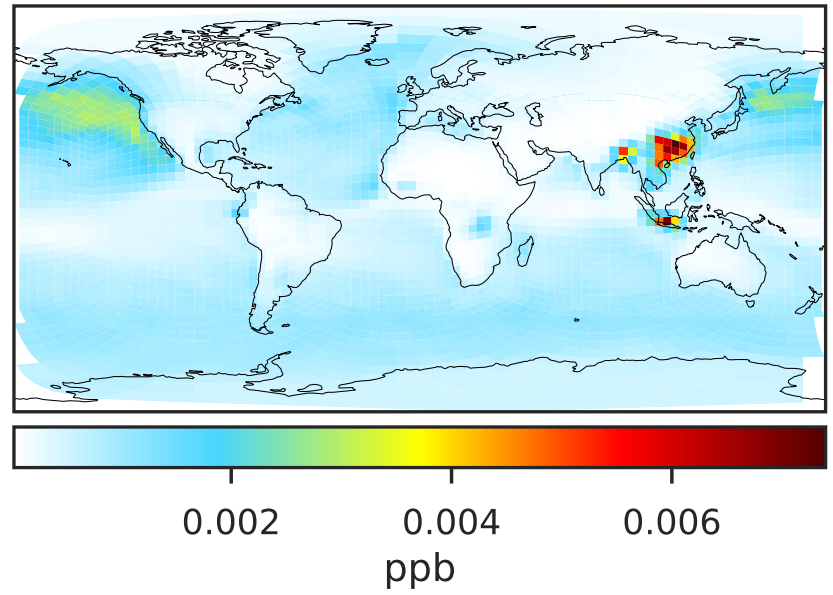


SpeciesConcVV_CH3I (Apr2019)

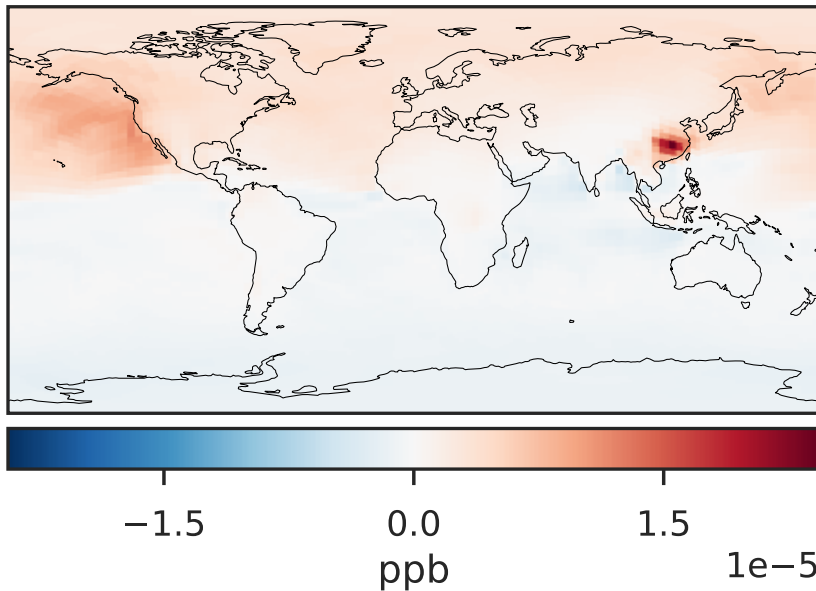
GCHP_14.0.0 (Ref)
c24



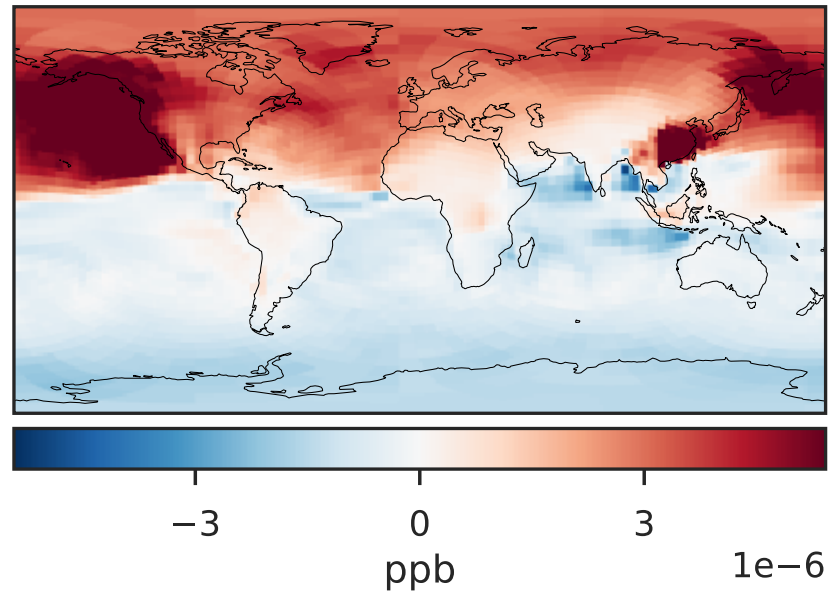
GCHP_14.2.0 (Dev)
c24



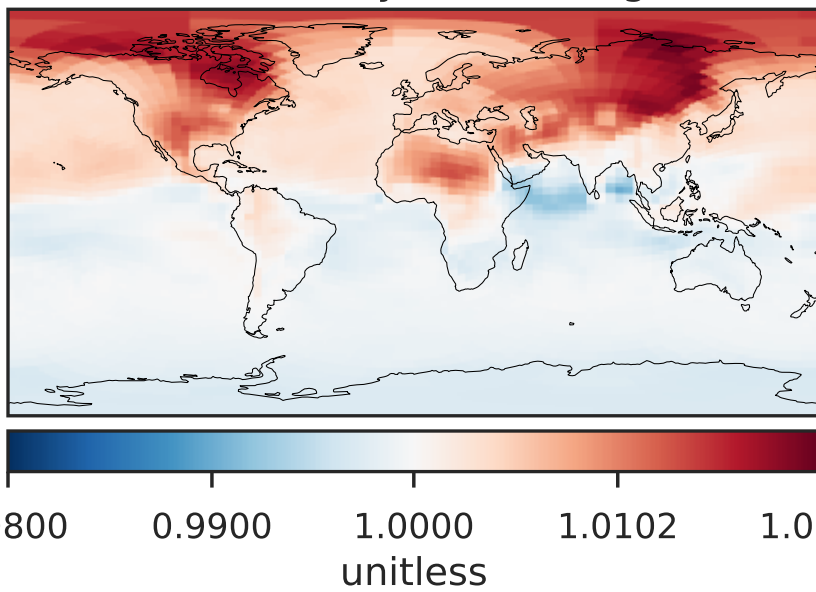
Difference (1x1.25)
Dev - Ref, Dynamic Range



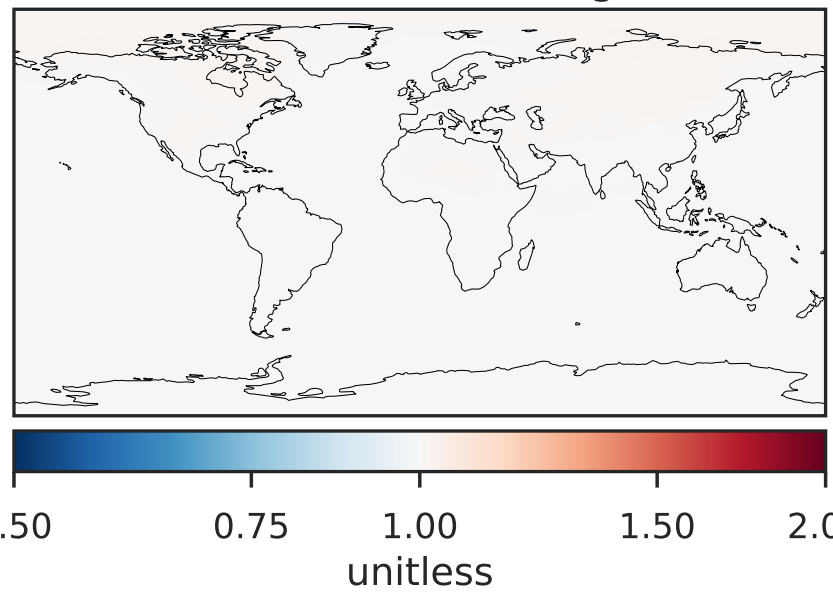
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

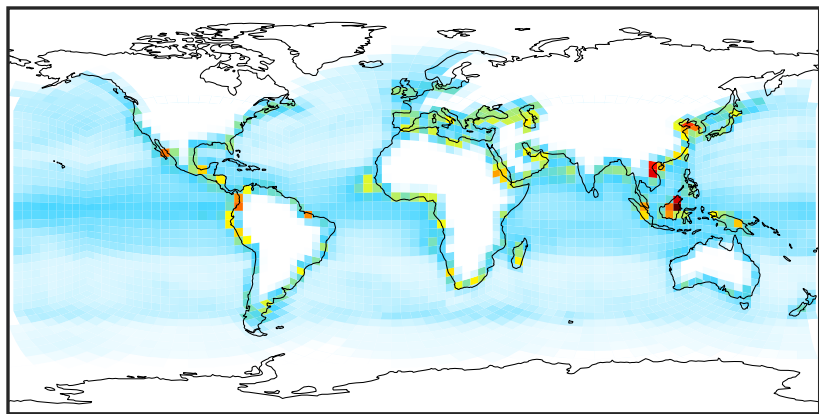


Ratio (1x1.25)
Dev/Ref, Fixed Range



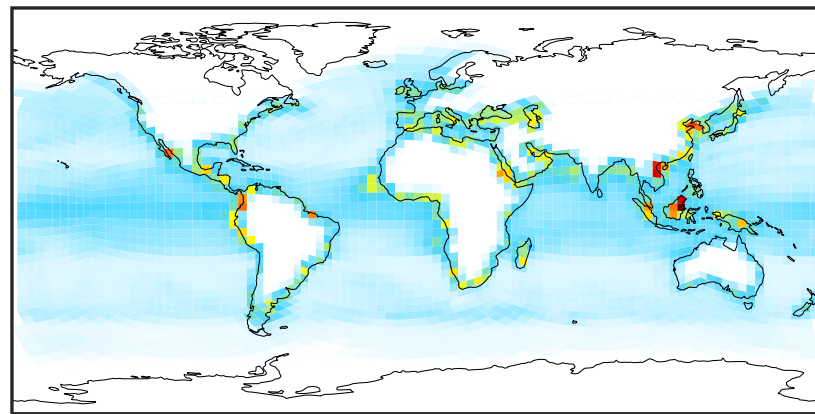
SpeciesConcVV_CH2I2 (Apr2019)

GCHP_14.0.0 (Ref)
c24



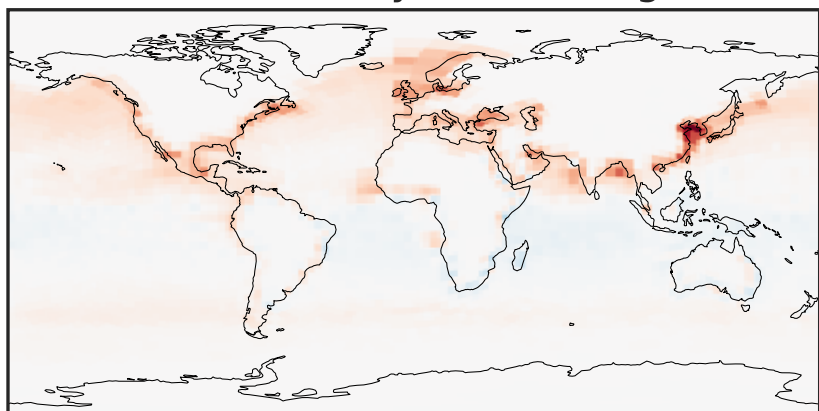
0.00000 0.00004 0.00008 0.00012
ppb

GCHP_14.2.0 (Dev)
c24



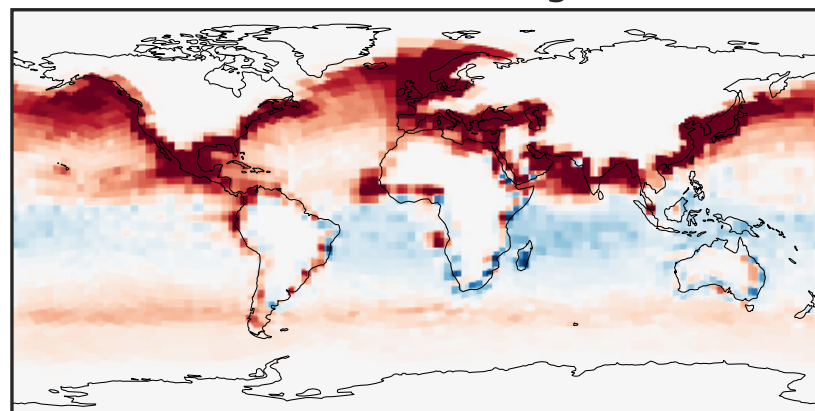
0.00000 0.00004 0.00008 0.00012
ppb

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



-4 0 4
ppb $1e-8$

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



-8 0 8
ppb $1e-9$

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



0.7854 0.8927 1.0000 1.1366 1.2732
unitless

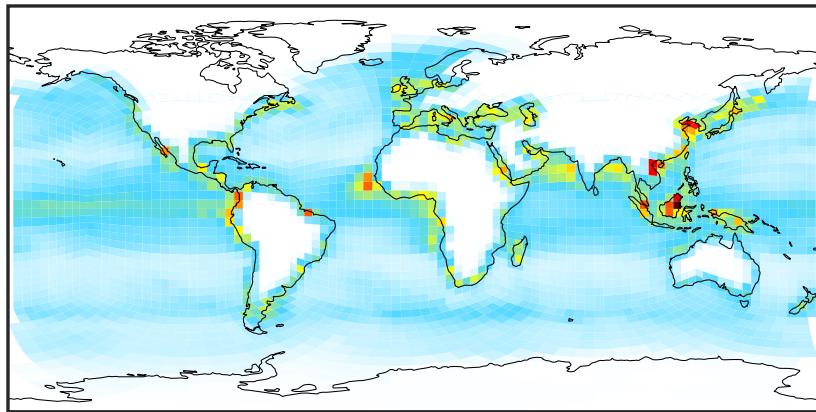
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

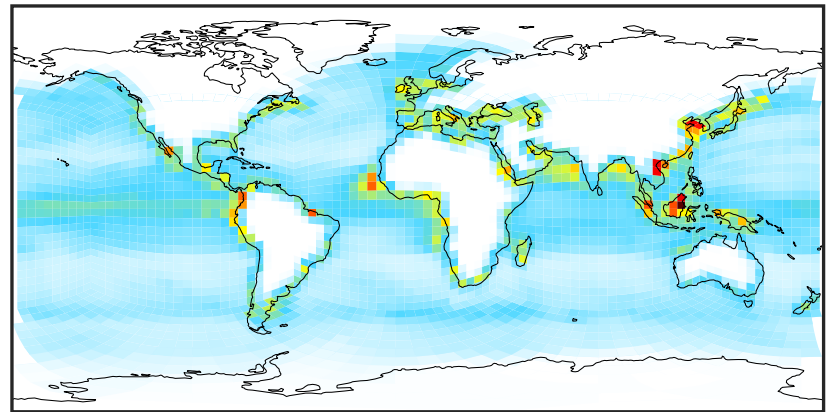
SpeciesConcVV_CH2ICl (Apr2019)

GCHP_14.0.0 (Ref)
c24



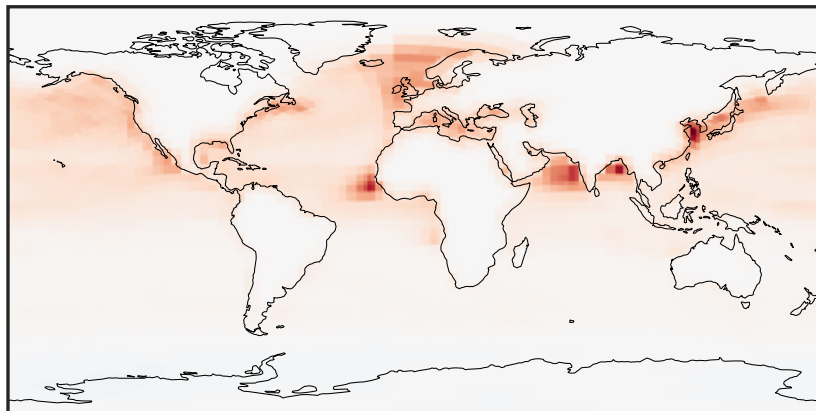
0.00015 0.00030 0.00045
ppb

GCHP_14.2.0 (Dev)
c24



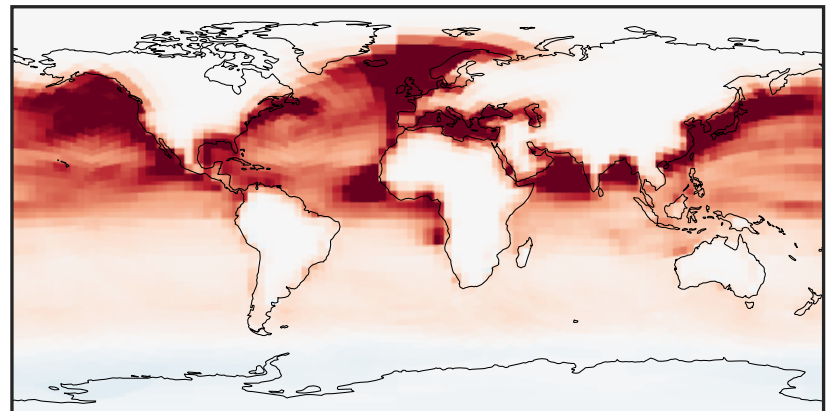
0.00015 0.00030 0.00045
ppb

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



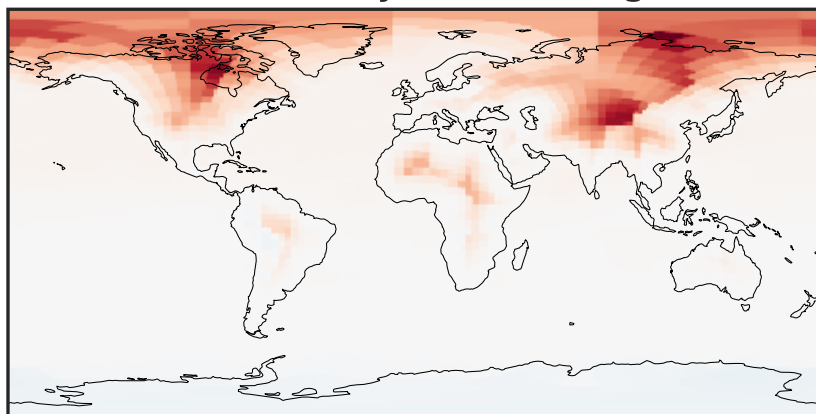
-1.5 0.0 1.5
ppb $1e-6$

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



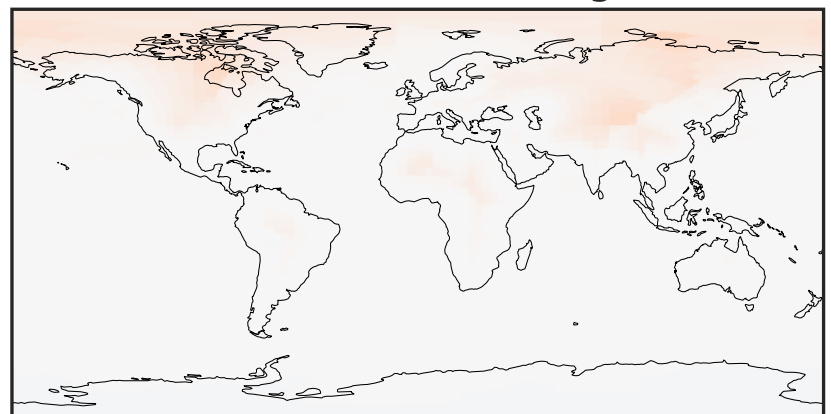
-3 0 3
ppb $1e-7$

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



0.8625 0.9313 1.0000 1.0797 1.1594
unitless

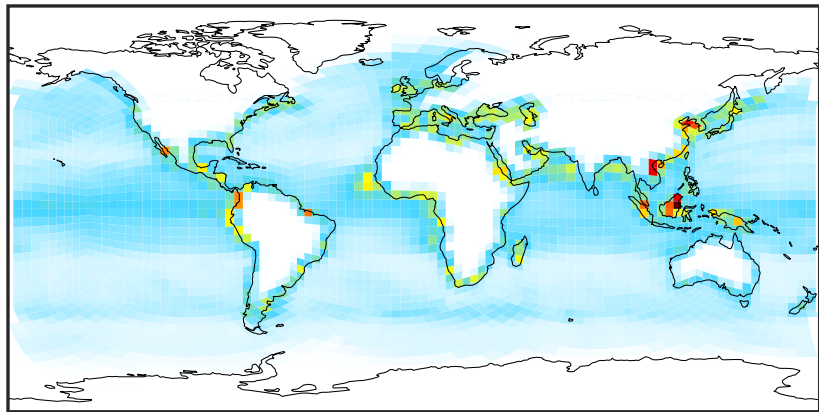
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

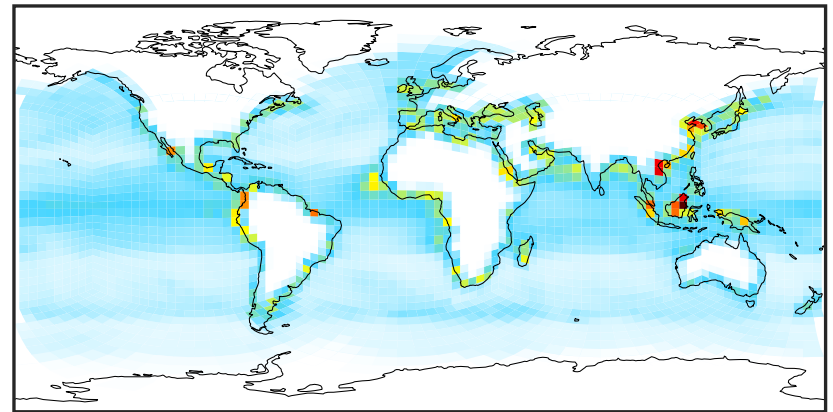
SpeciesConcVV_CH2IBr (Apr2019)

GCHP_14.0.0 (Ref)
c24



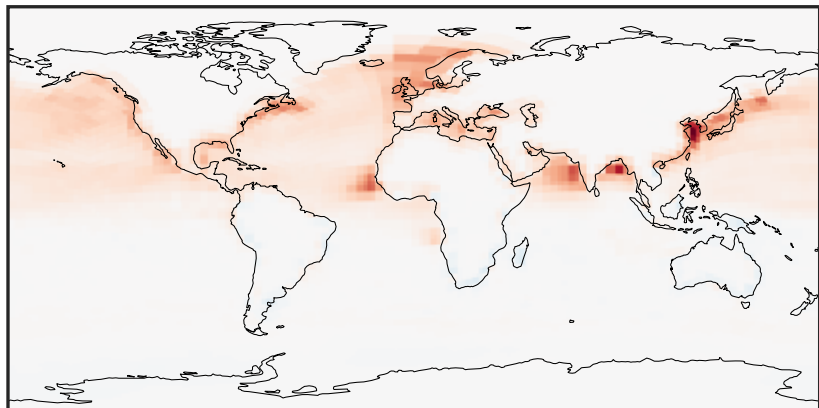
0.00000 0.00005 0.00010 0.00015
ppb

GCHP_14.2.0 (Dev)
c24



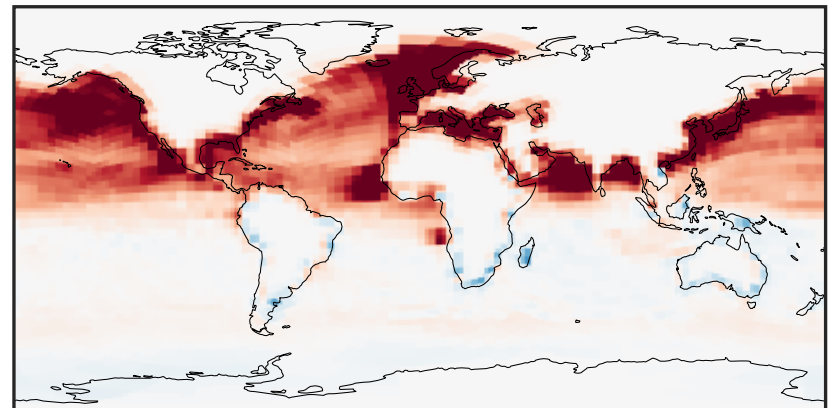
0.00000 0.00005 0.00010 0.00015
ppb

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



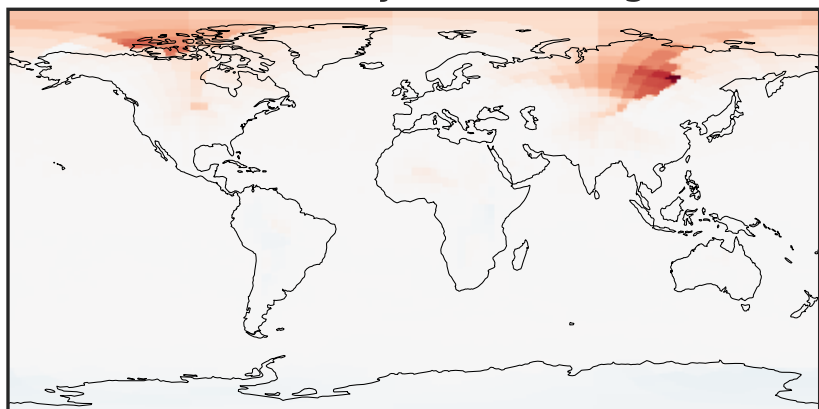
-1.5 0.0 1.5
ppb $1e-7$

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



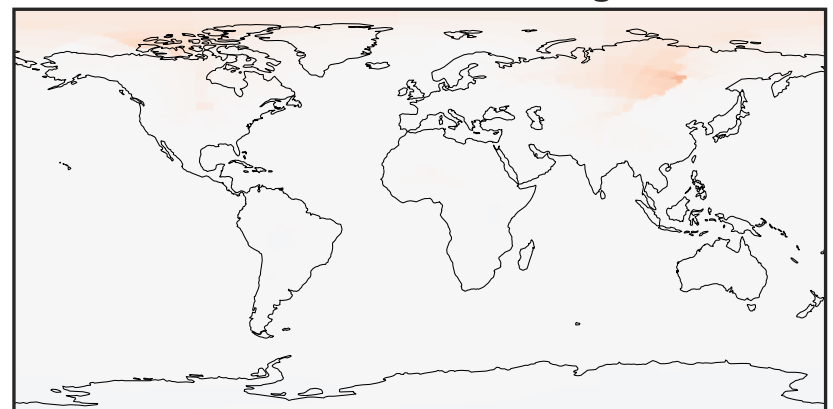
-2.5 0.0 2.5
ppb $1e-8$

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



0.7948 0.8974 1.0000 1.1291 1.2582
unitless

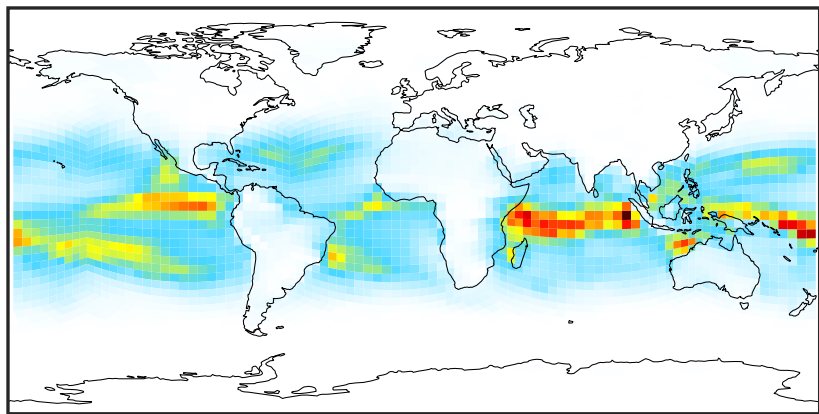
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

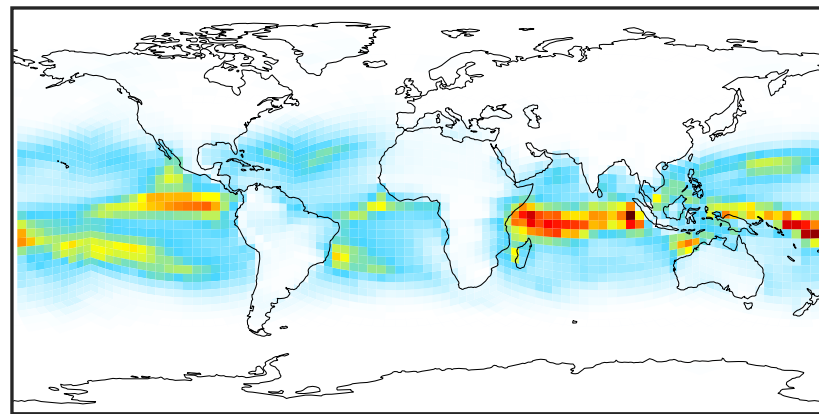
SpeciesConcVV_HI (Apr2019)

GCHP_14.0.0 (Ref)
c24



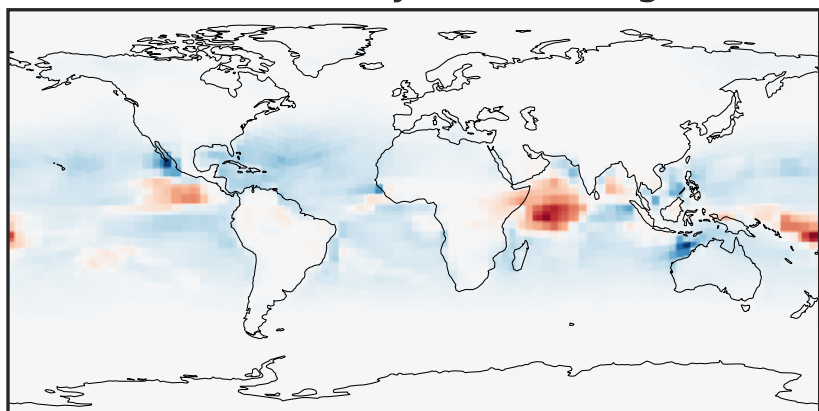
0.00005 0.00010 0.00015
ppb

GCHP_14.2.0 (Dev)
c24



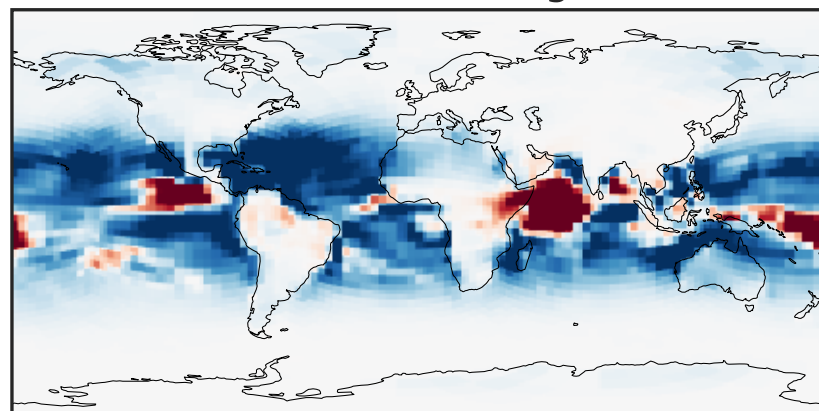
0.00005 0.00010 0.00015
ppb

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



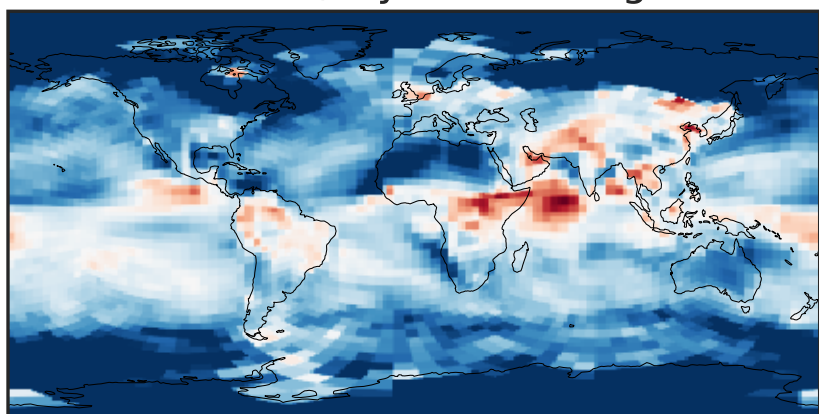
-6 0 6
ppb $1e-6$

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



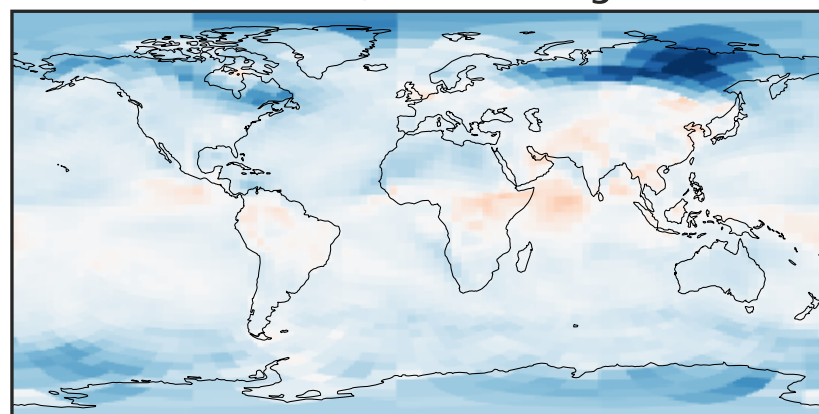
-1.5 0.0 1.5
ppb $1e-6$

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



0.8365 0.9182 1.0000 1.0977 1.1955
unitless

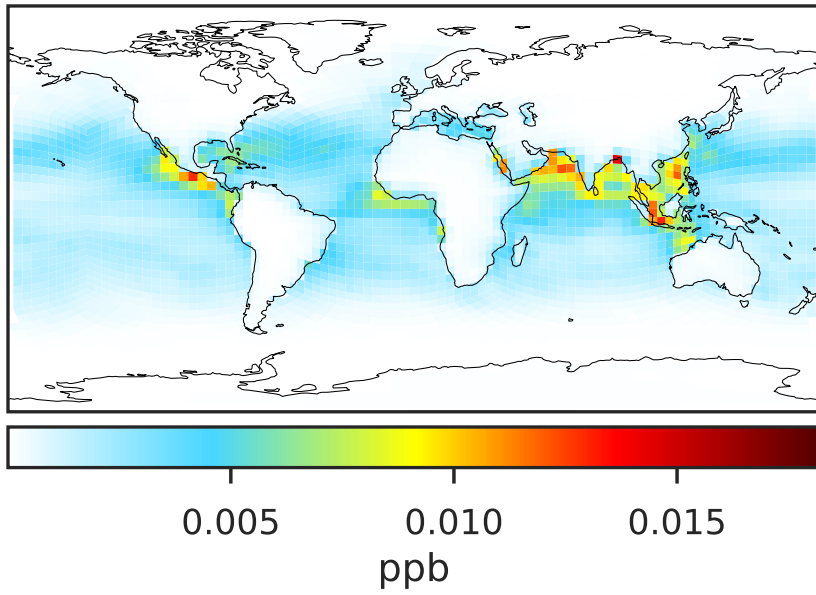
Ratio (1x1.25)
Dev/Ref, Fixed Range



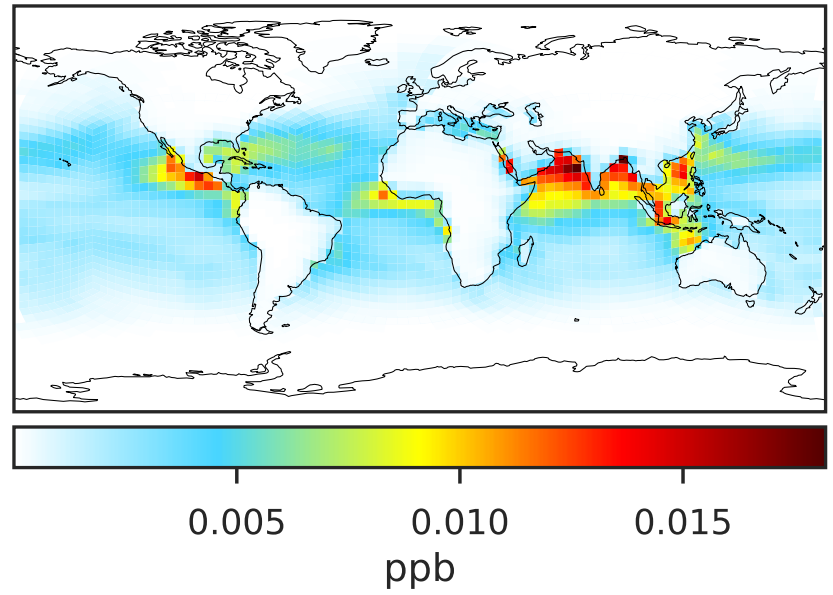
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HOI (Apr2019)

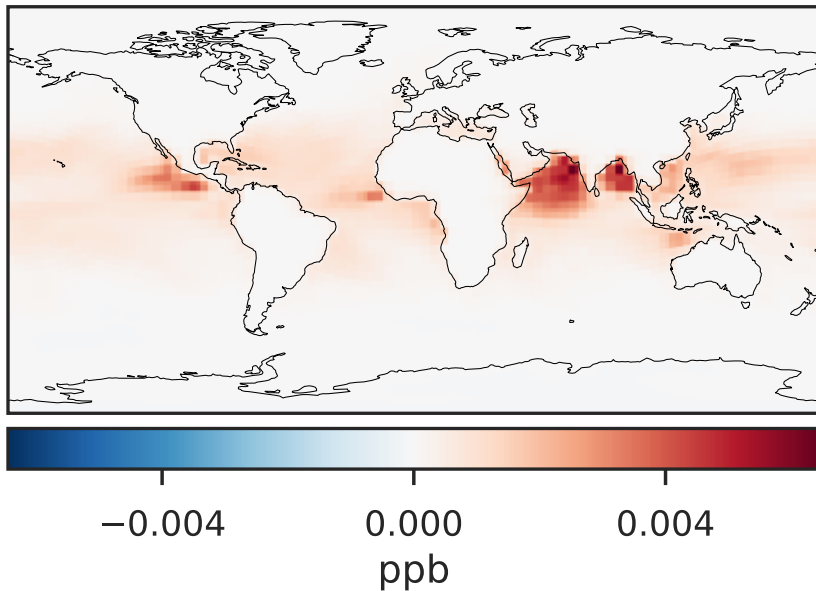
GCHP_14.0.0 (Ref)
c24



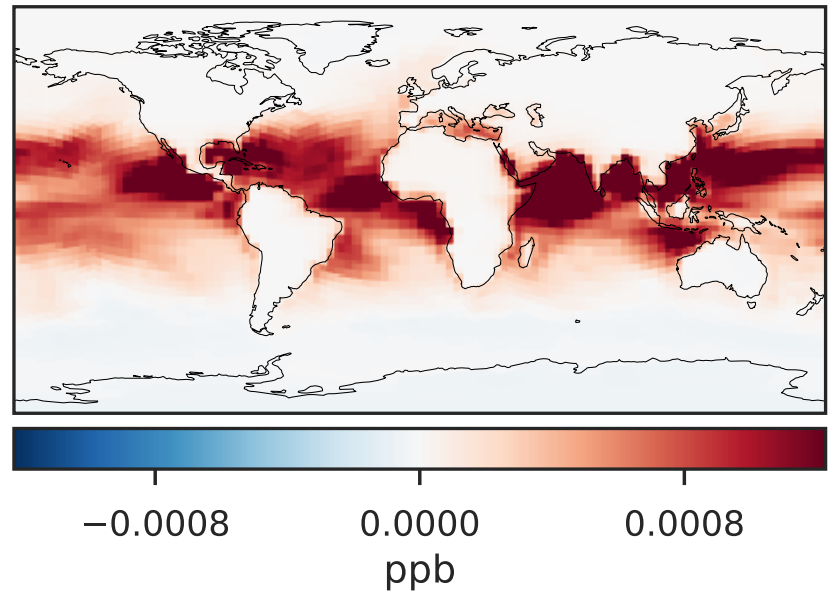
GCHP_14.2.0 (Dev)
c24



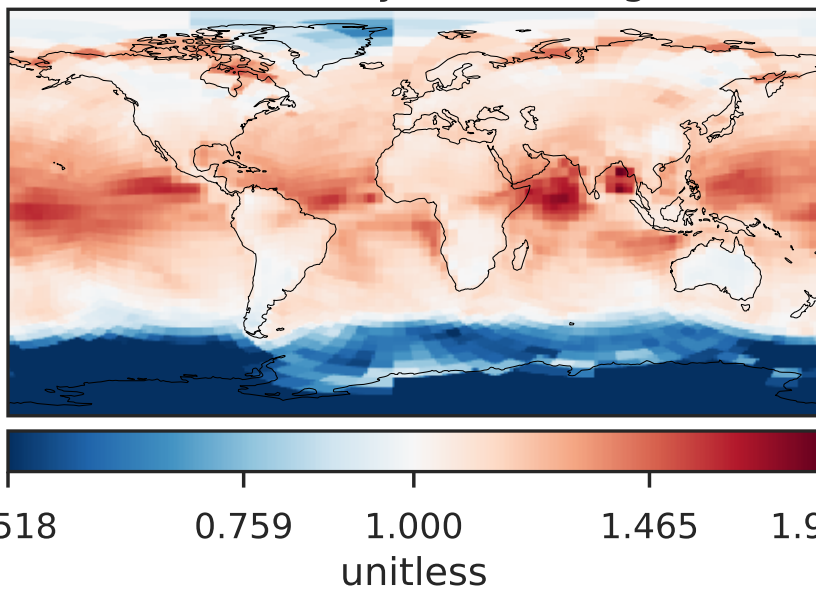
Difference (1x1.25)
Dev - Ref, Dynamic Range



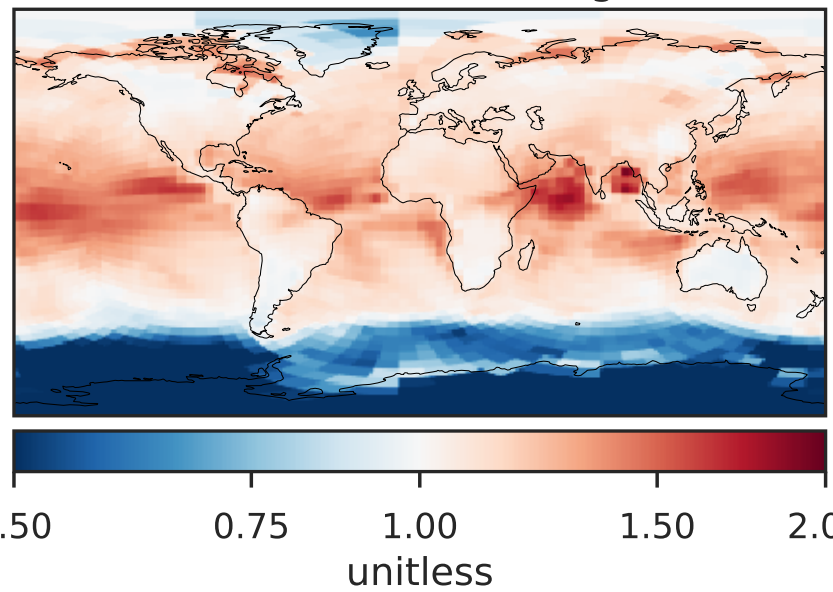
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

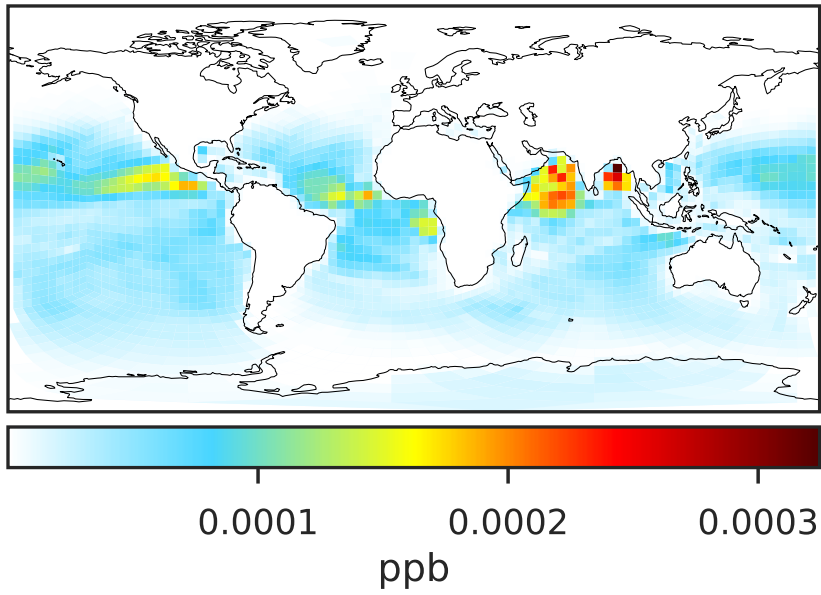


Ratio (1x1.25)
Dev/Ref, Fixed Range

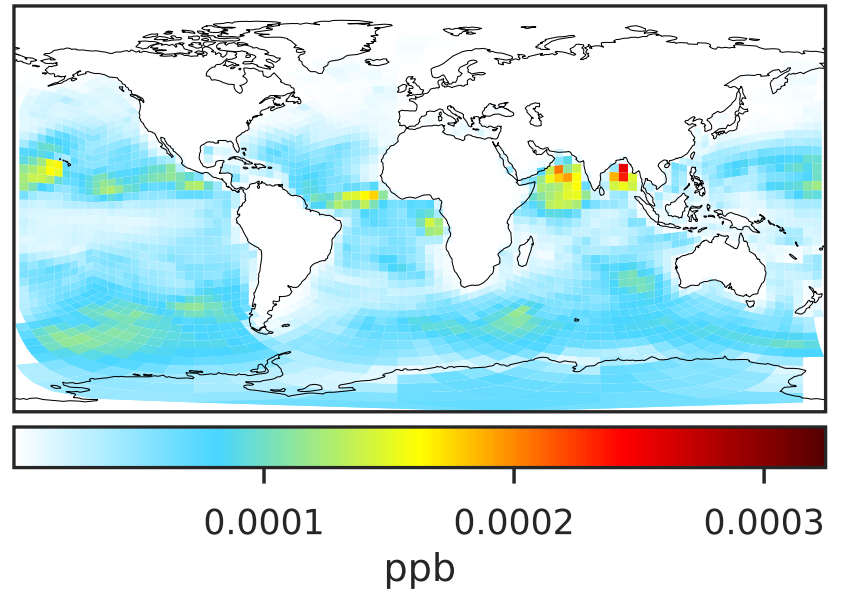


SpeciesConcVV_OIO (Apr2019)

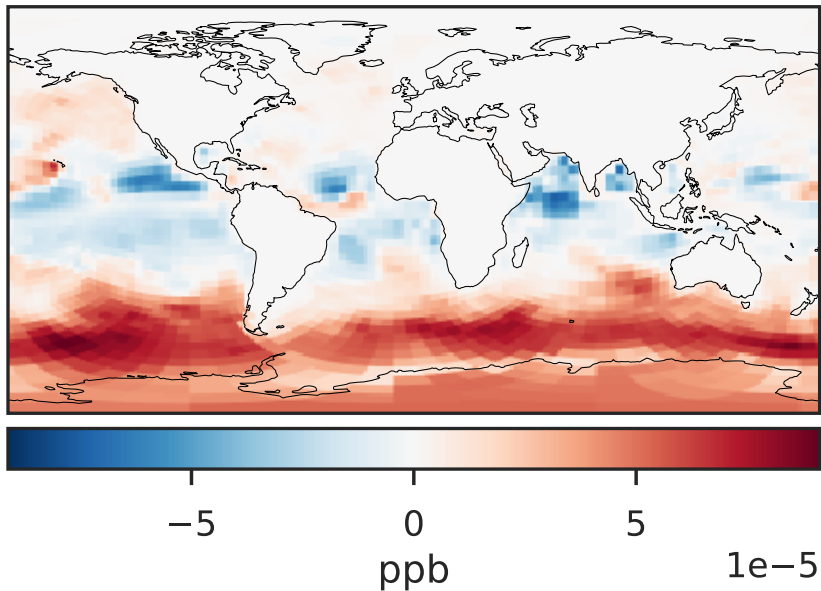
GCHP_14.0.0 (Ref)
c24



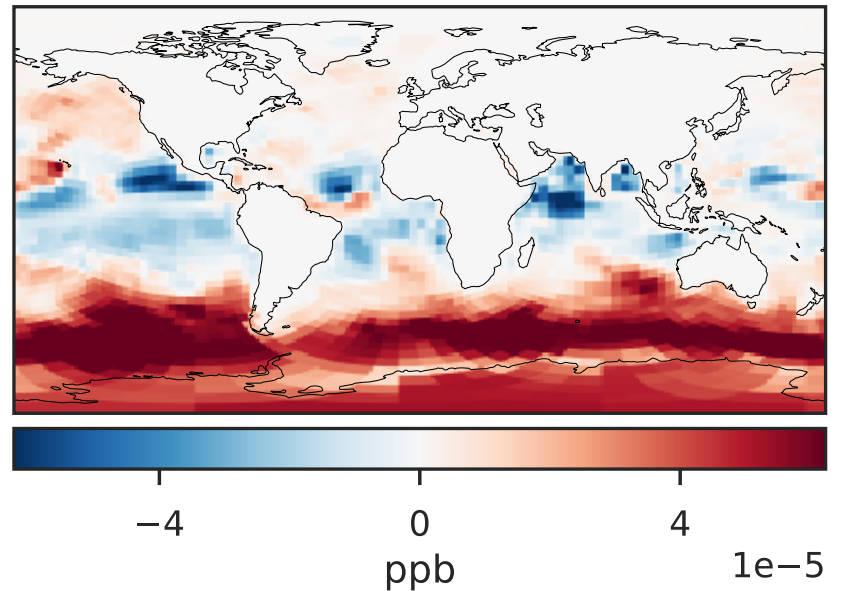
GCHP_14.2.0 (Dev)
c24



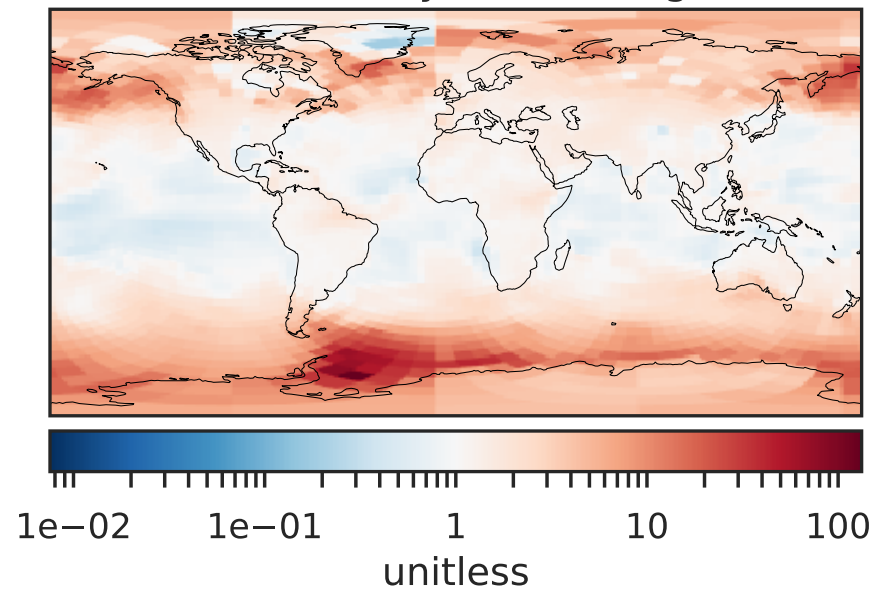
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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



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

