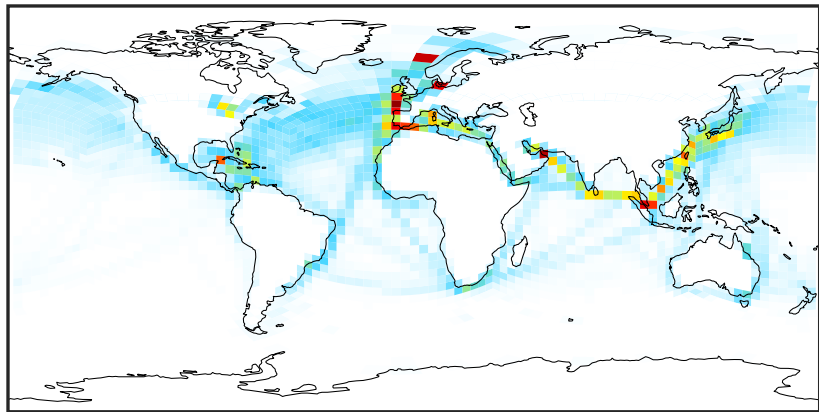


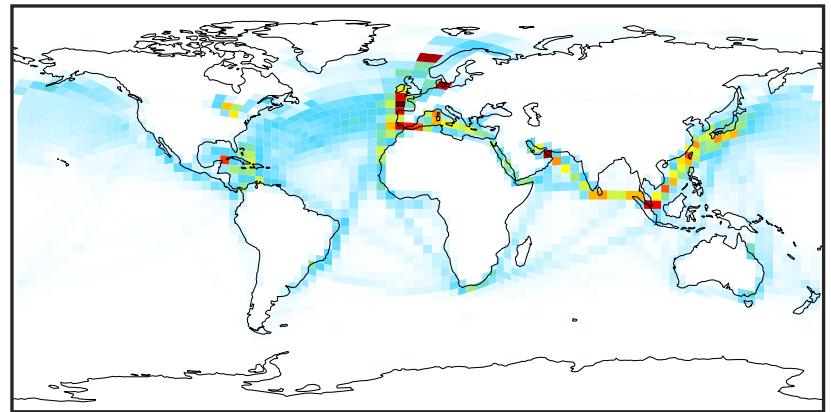
EmisHNO3_Ship (AnnualMean)

GCHP_14.0.0 (Ref)
c24



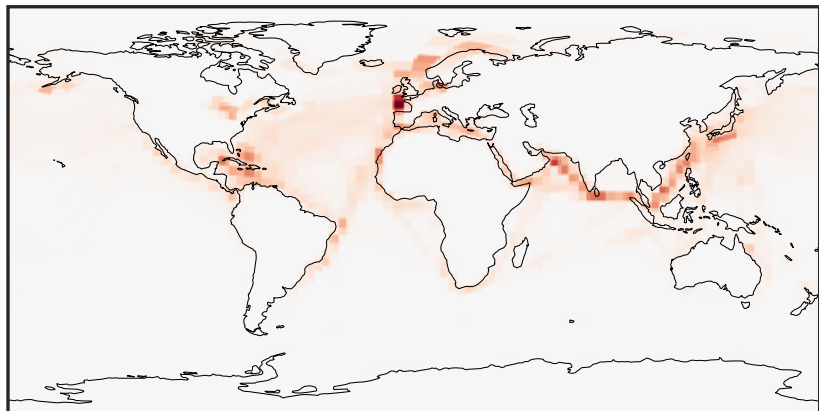
0.0 0.5 1.0 1.5 $1e-11$
kg/m²/s

GCHP_14.2.0 (Dev)
c24



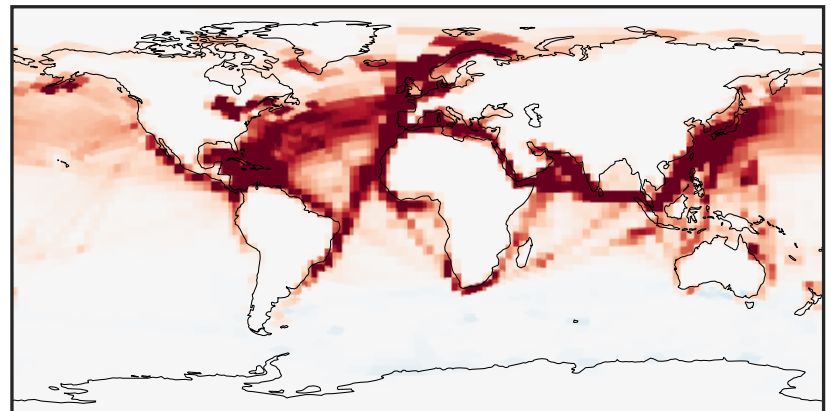
0.0 0.5 1.0 1.5 $1e-11$
kg/m²/s

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



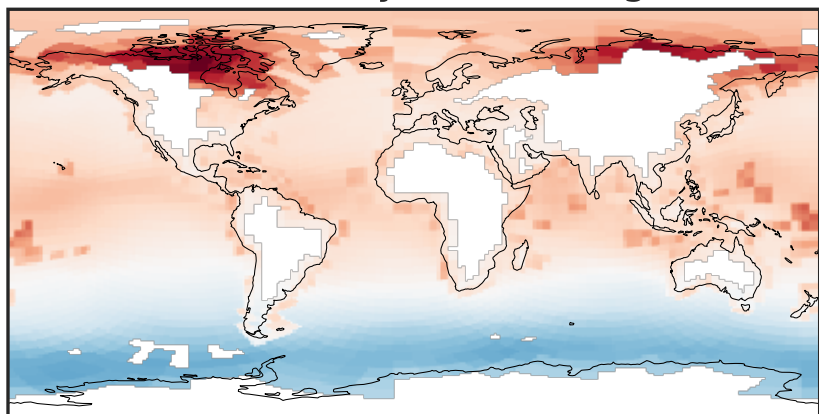
-1 0 1 $1e-12$
kg/m²/s

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



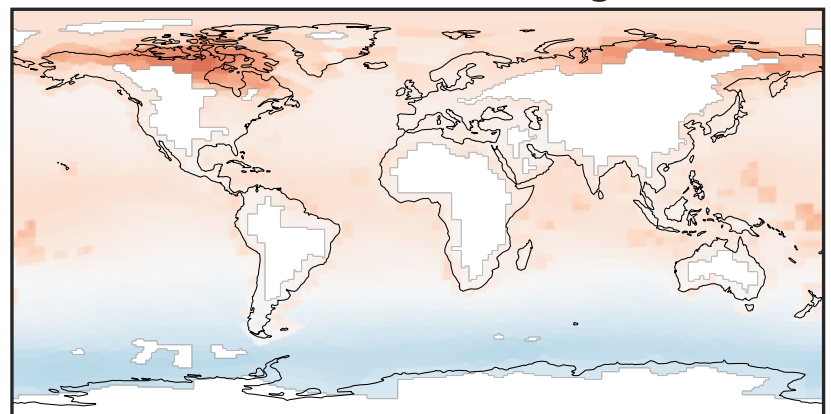
-1.5 0.0 1.5 $1e-13$
kg/m²/s

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



0.684 0.842 1.000 1.231 1.462
unitless

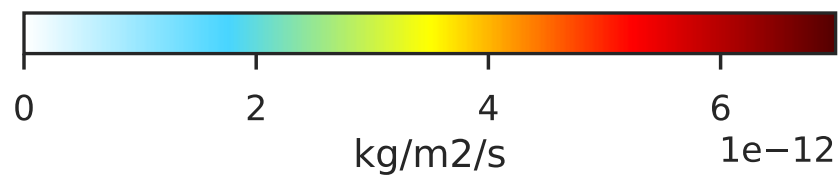
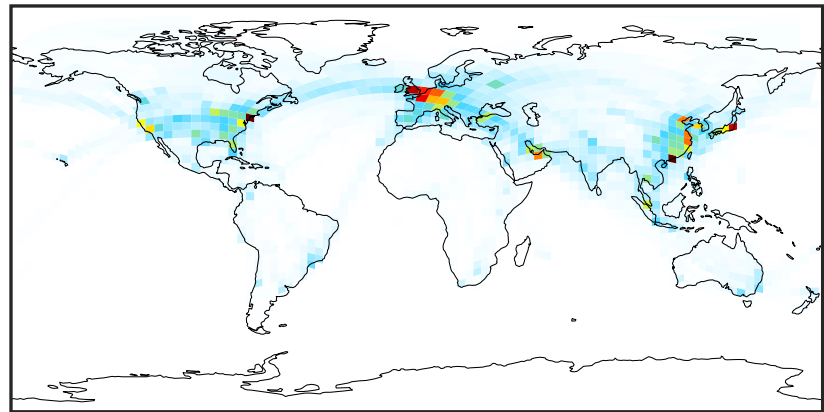
Ratio (1x1.25)
Dev/Ref, Fixed Range



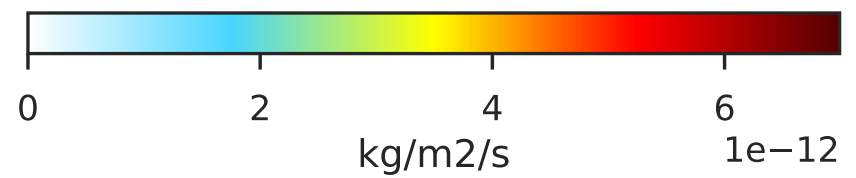
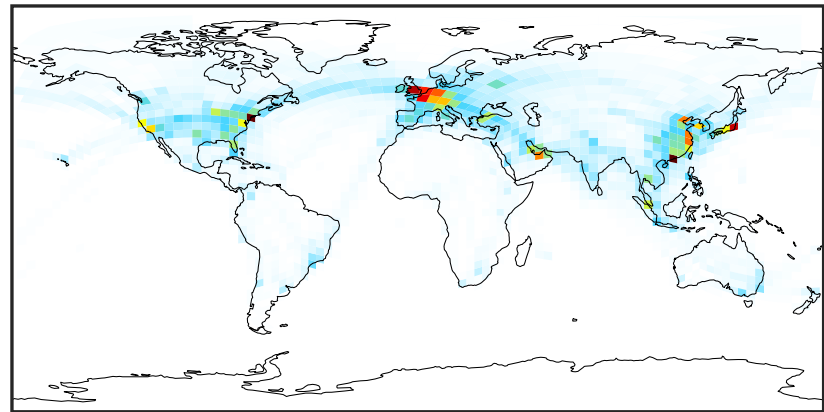
0.50 0.75 1.00 1.50 2.00
unitless

EmisNO_Aircraft (AnnualMean)

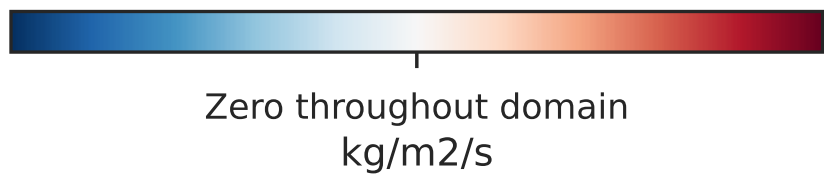
GCHP_14.0.0 (Ref)
c24



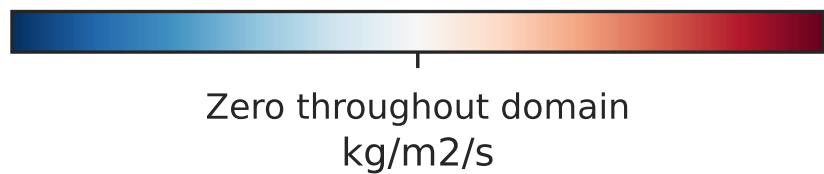
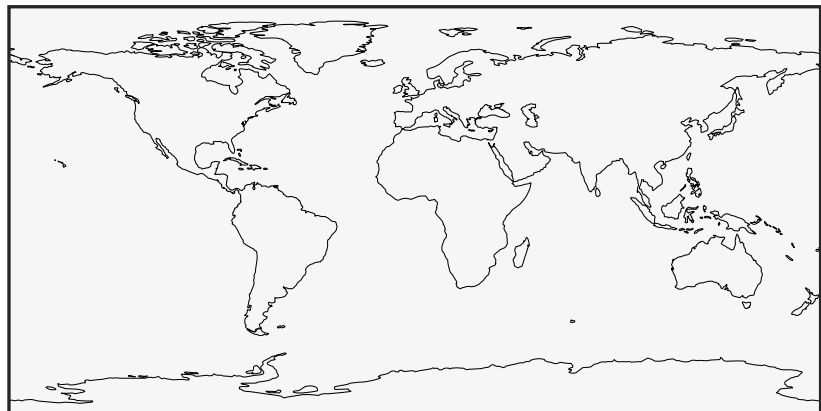
GCHP_14.2.0 (Dev)
c24



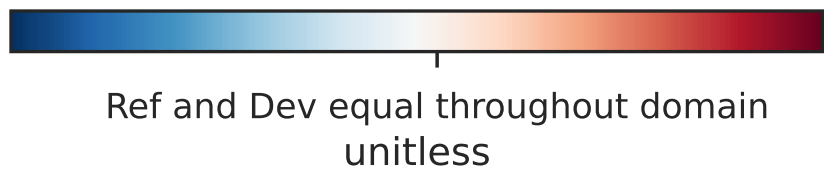
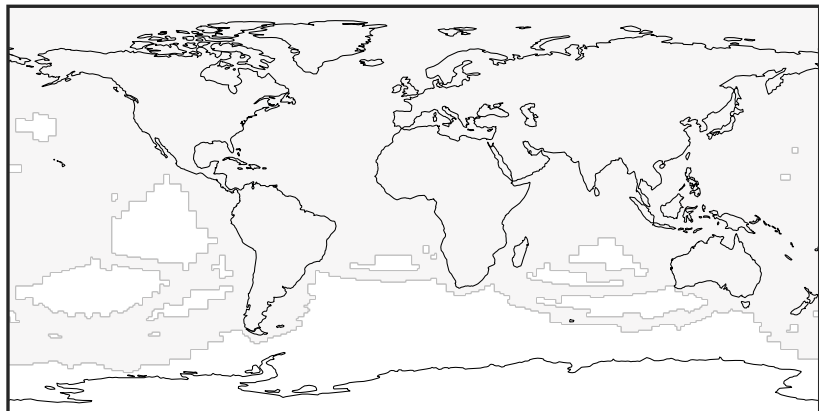
Difference (1x1.25)
Dev - Ref, Dynamic Range



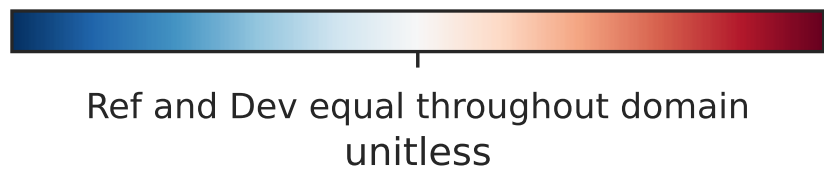
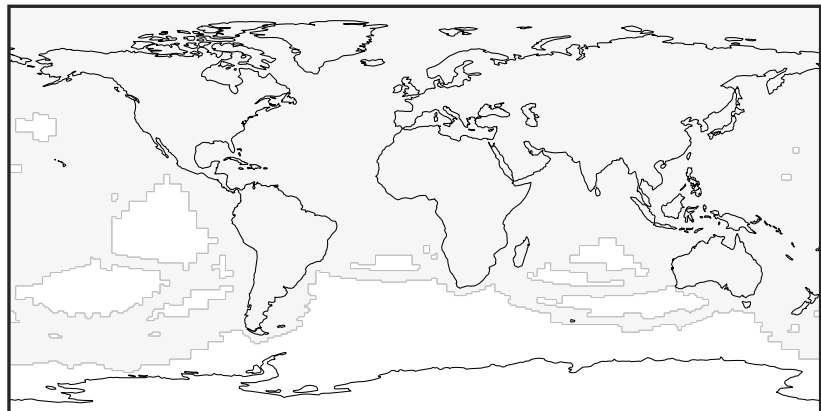
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

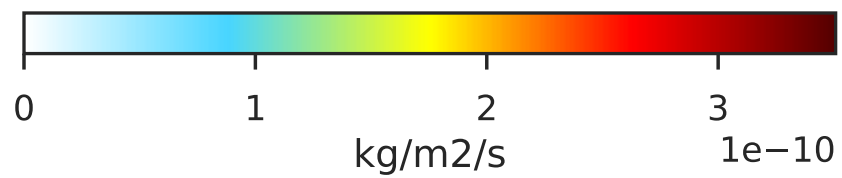
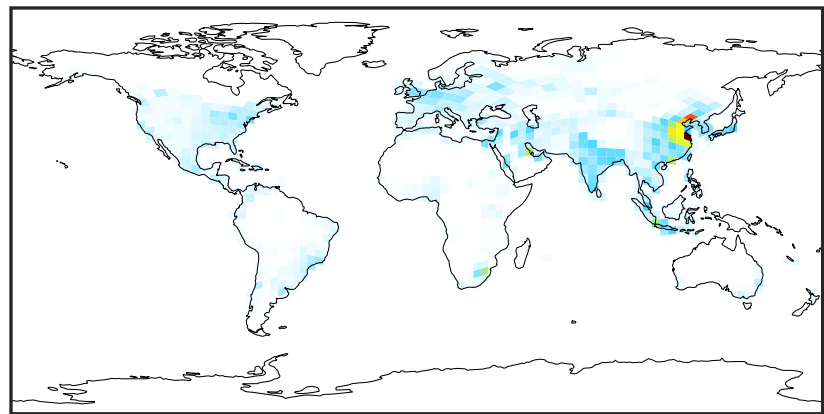


Ratio (1x1.25)
Dev/Ref, Fixed Range

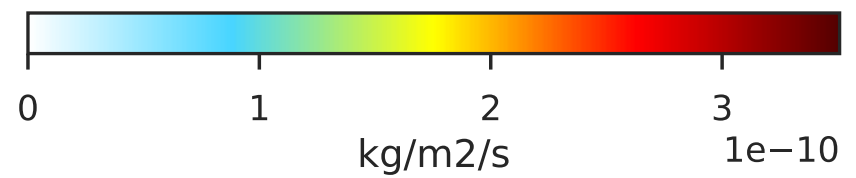
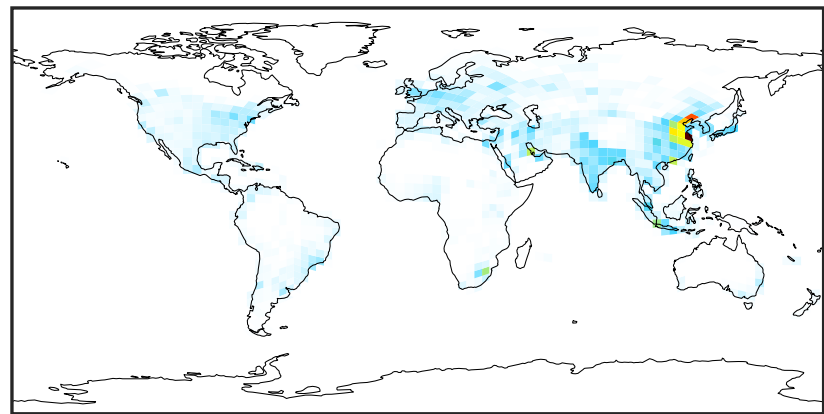


EmisNO_Anthro (AnnualMean)

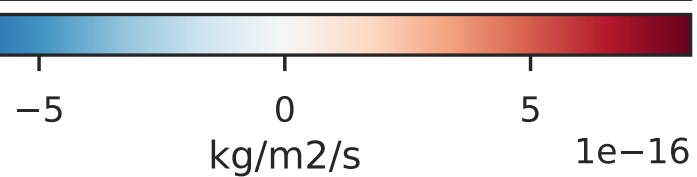
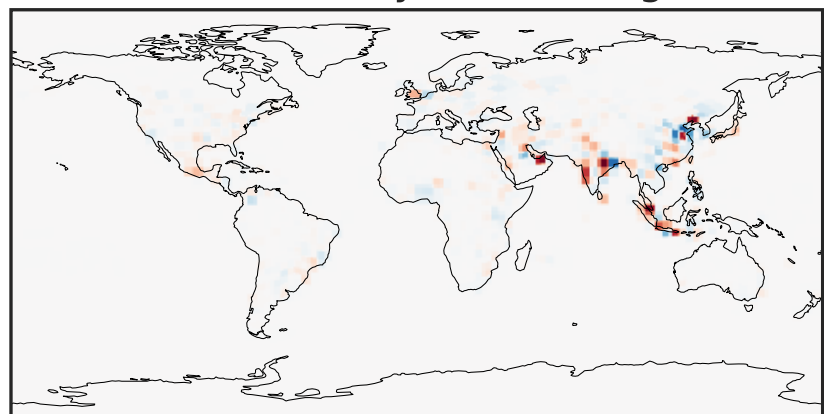
GCHP_14.0.0 (Ref)
c24



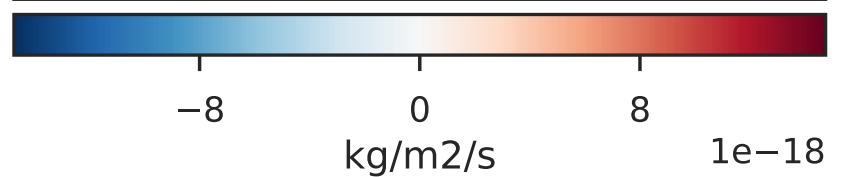
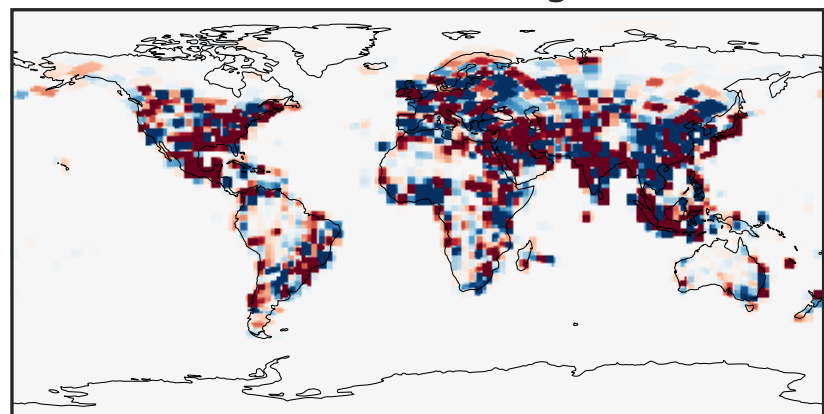
GCHP_14.2.0 (Dev)
c24



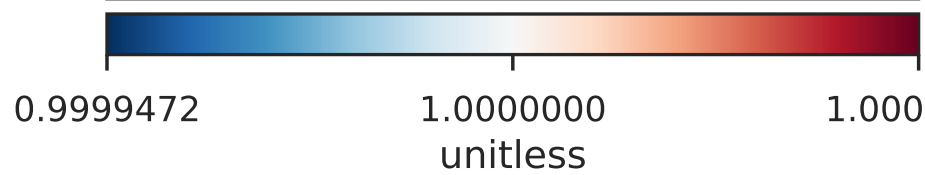
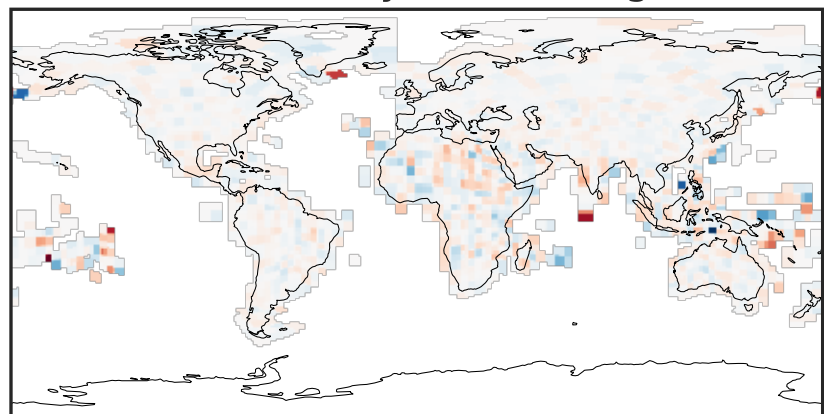
Difference (1x1.25)
Dev - Ref, Dynamic Range



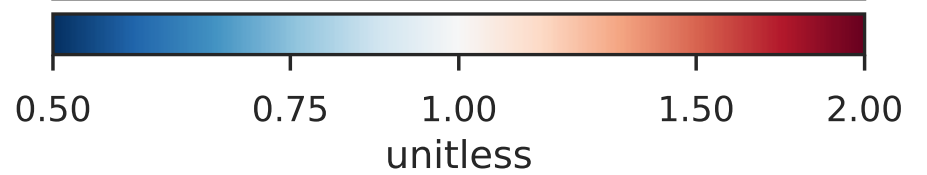
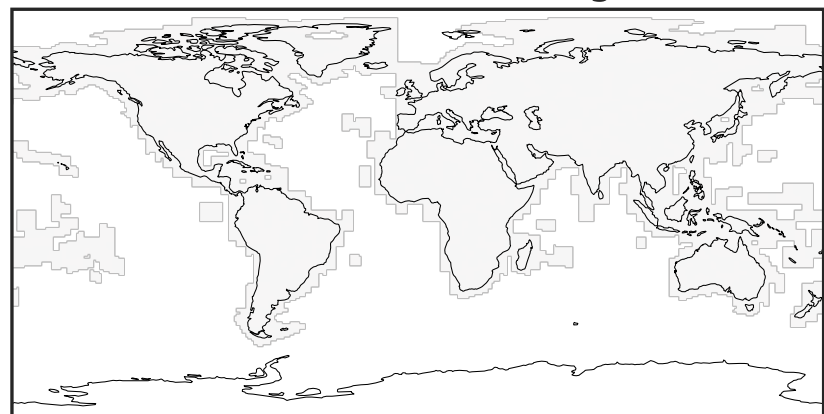
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

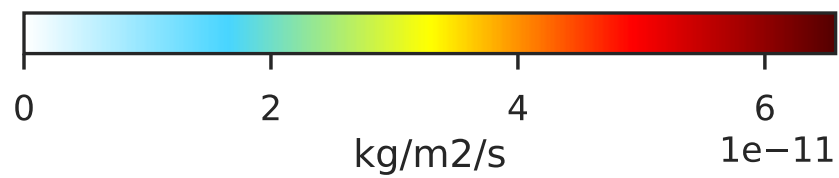
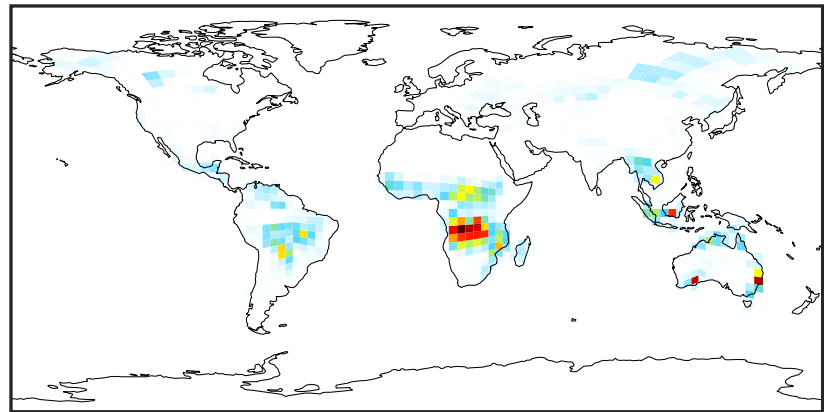


Ratio (1x1.25)
Dev/Ref, Fixed Range

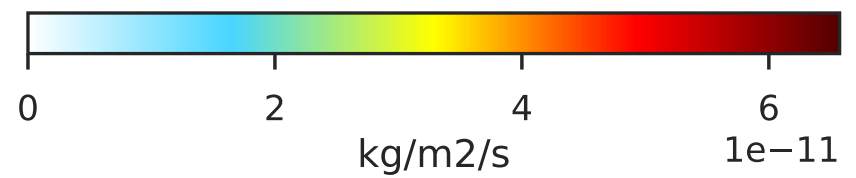
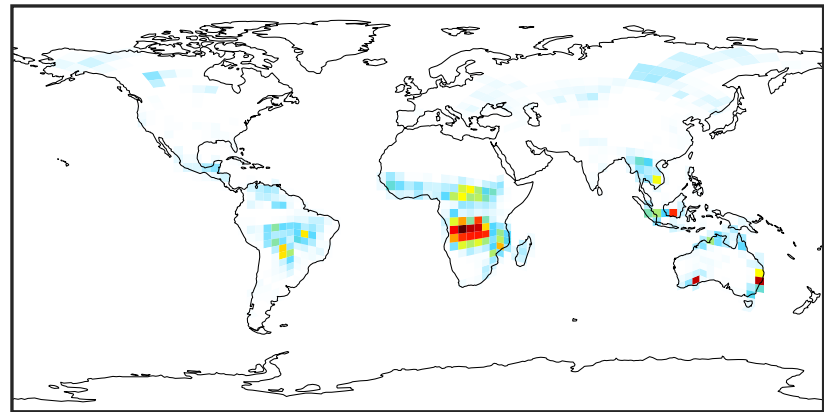


EmisNO_BioBurn (AnnualMean)

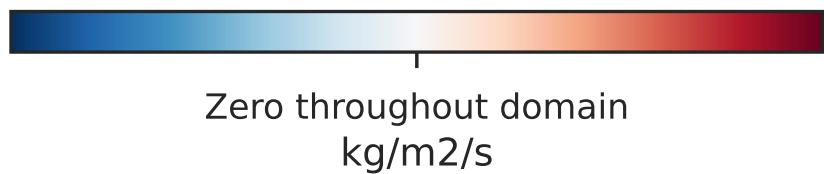
GCHP_14.0.0 (Ref)
c24



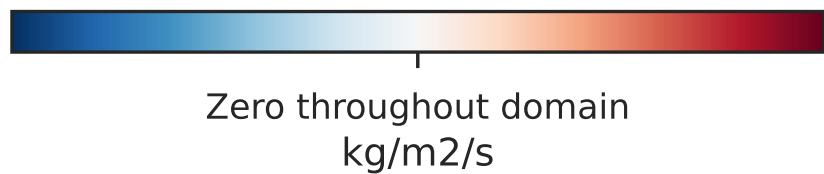
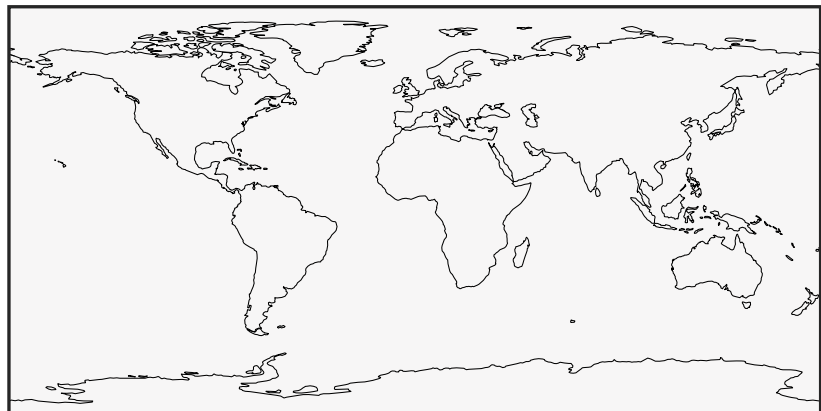
GCHP_14.2.0 (Dev)
c24



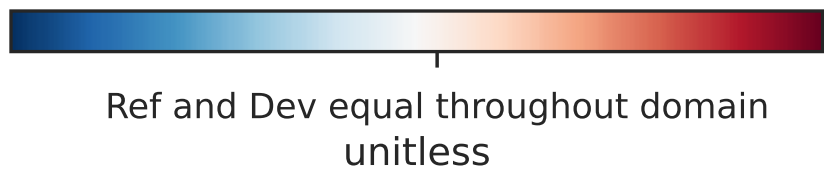
Difference (1x1.25)
Dev - Ref, Dynamic Range



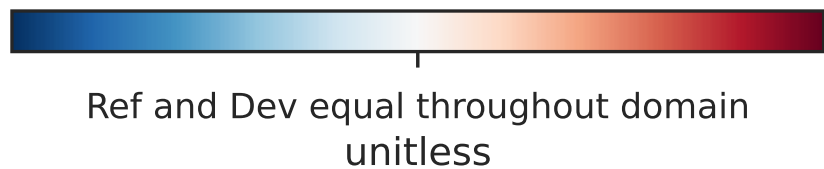
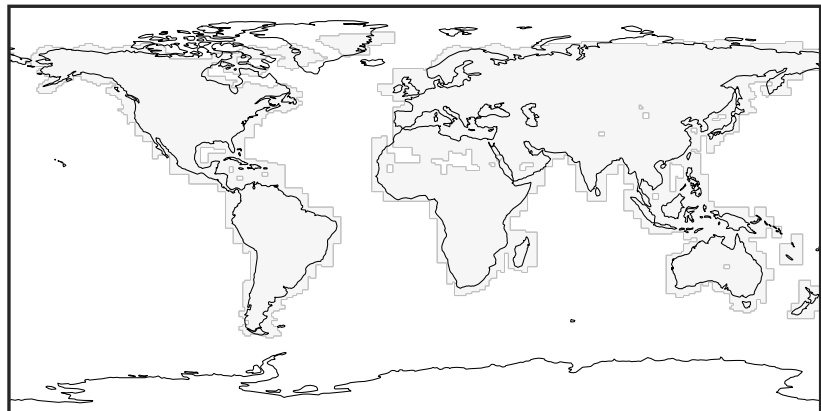
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

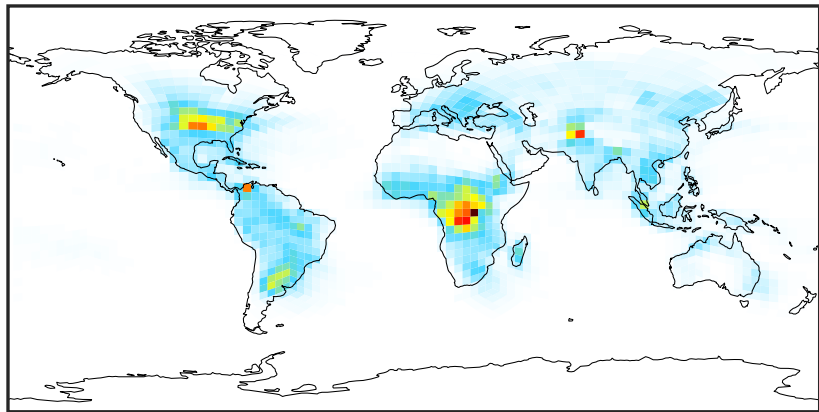


Ratio (1x1.25)
Dev/Ref, Fixed Range



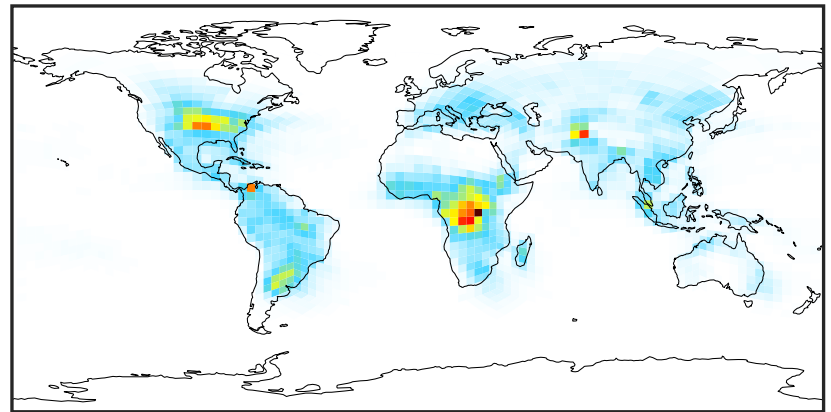
EmisNO_Lightning (AnnualMean)

GCHP_14.0.0 (Ref)
c24



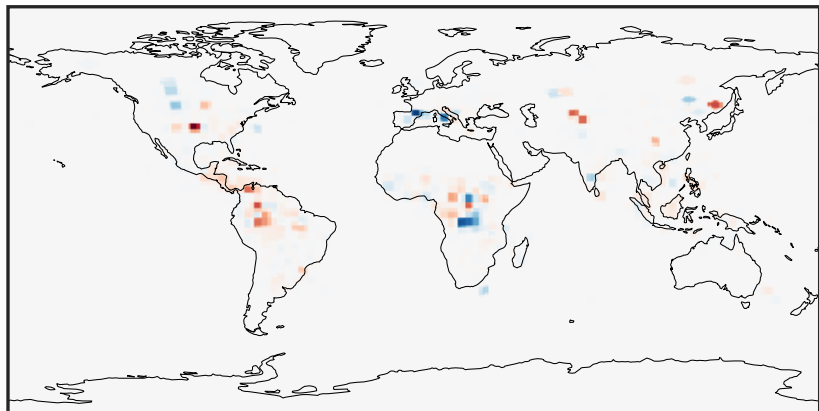
0.0 0.6 1.2 1.8
kg/m2/s $1e-11$

GCHP_14.2.0 (Dev)
c24



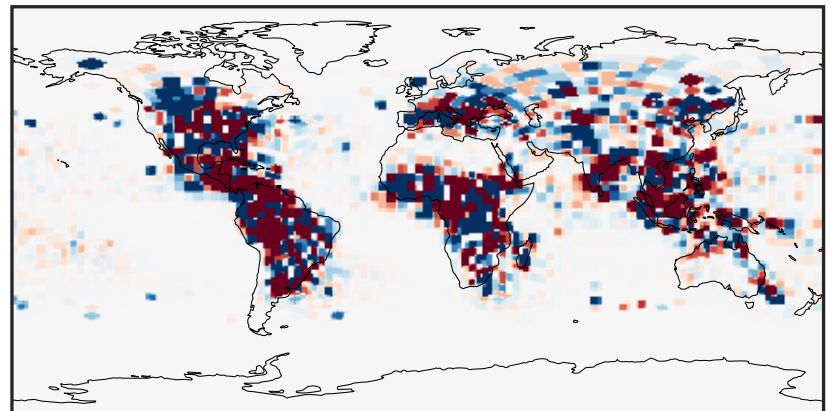
0.0 0.6 1.2 1.8
kg/m2/s $1e-11$

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



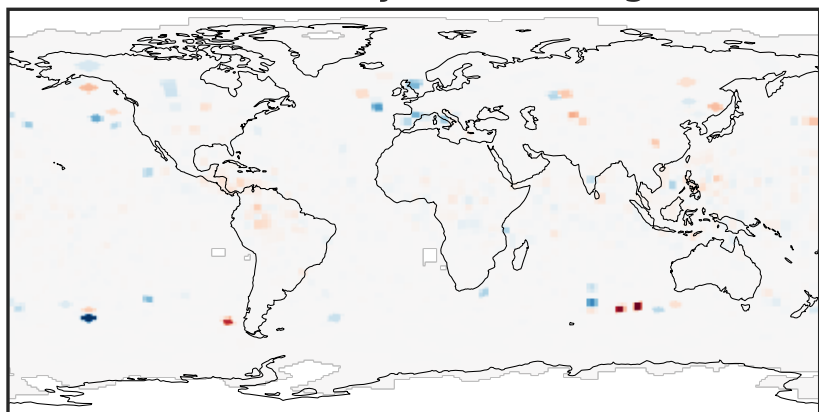
-2 0 2
kg/m2/s $1e-17$

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



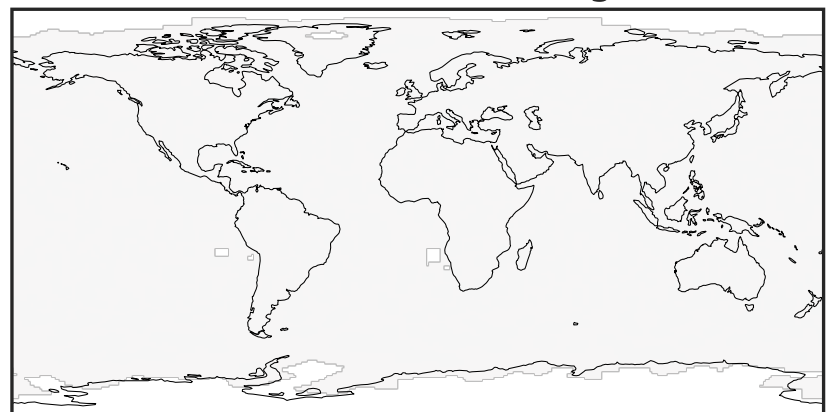
-2 0 2
kg/m2/s $1e-19$

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



0.99997363 1.00000000 1.00002637
unitless

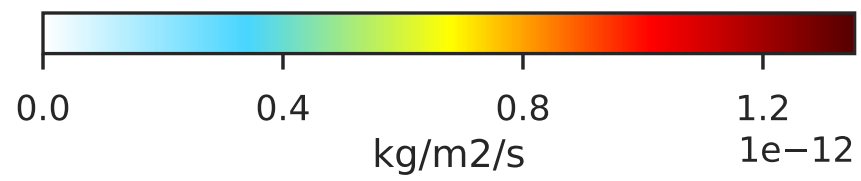
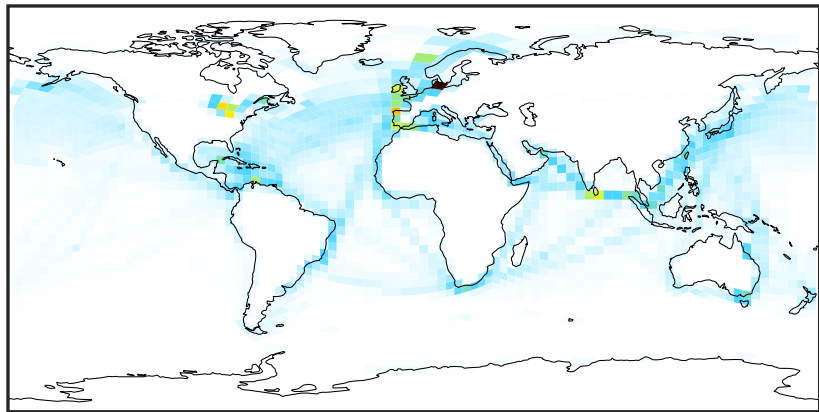
Ratio (1x1.25)
Dev/Ref, Fixed Range



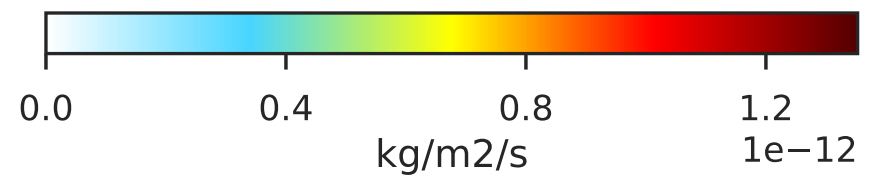
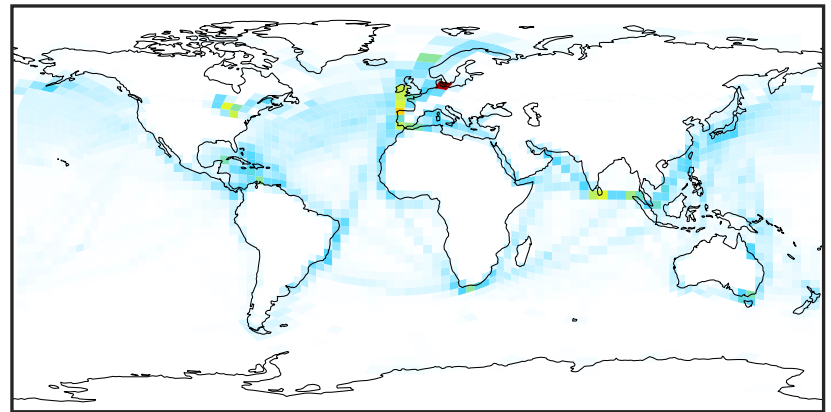
0.50 0.75 1.00 1.50 2.00
unitless

EmisNO_Ship (AnnualMean)

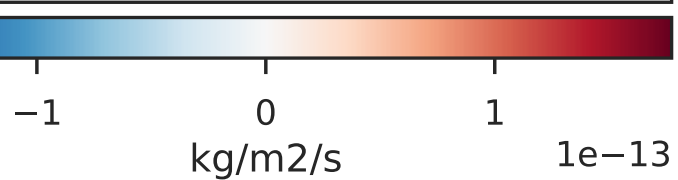
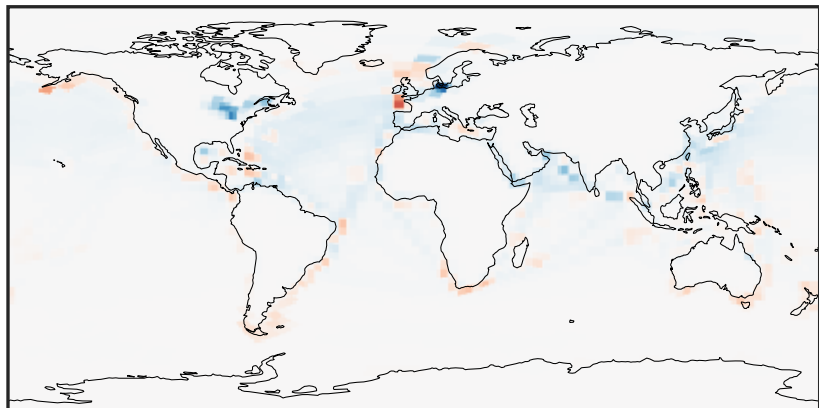
GCHP_14.0.0 (Ref)
c24



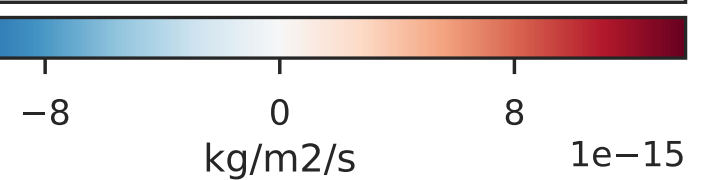
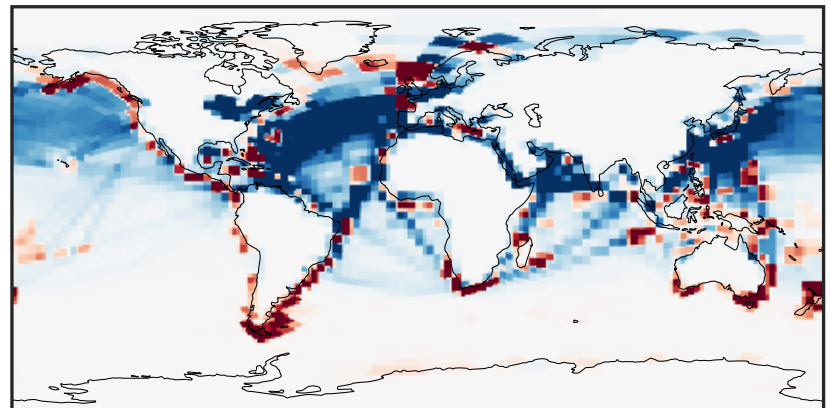
GCHP_14.2.0 (Dev)
c24



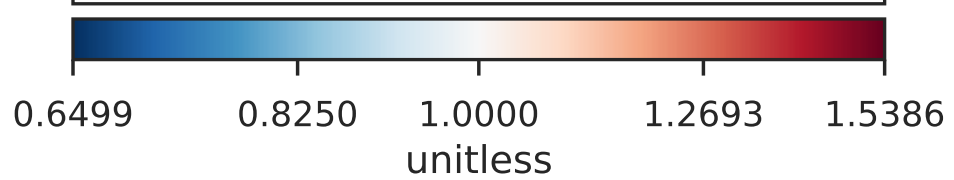
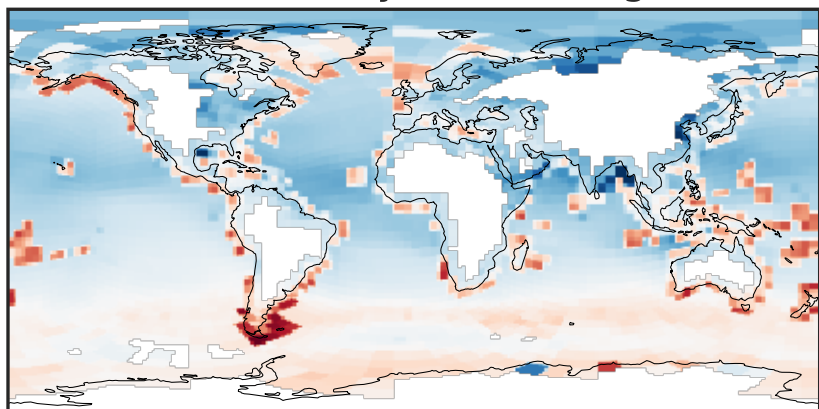
Difference (1x1.25)
Dev - Ref, Dynamic Range



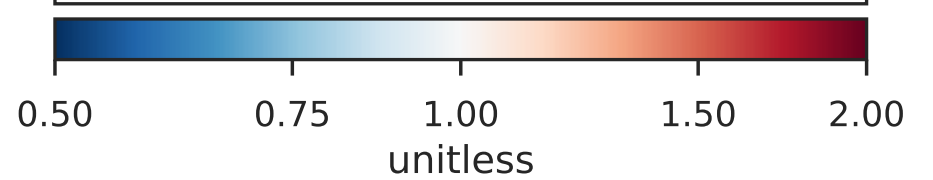
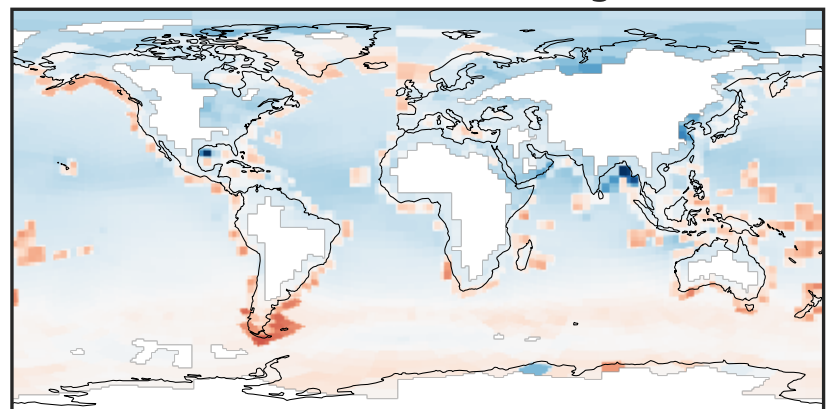
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

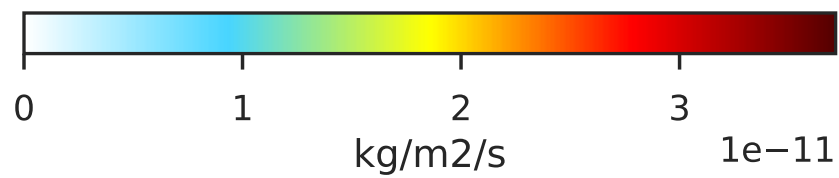
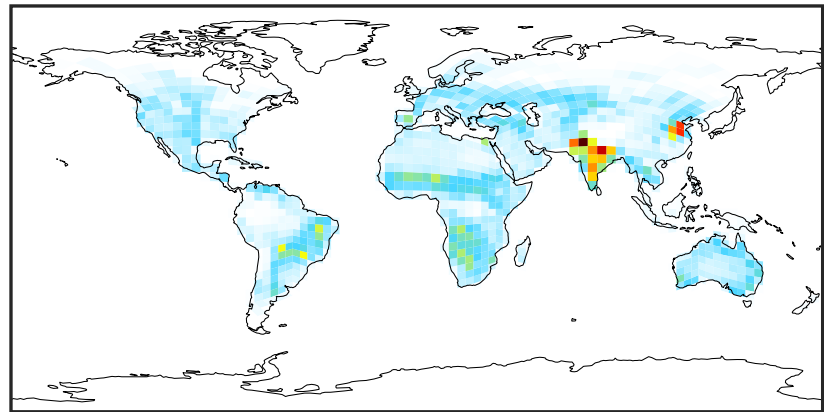


Ratio (1x1.25)
Dev/Ref, Fixed Range

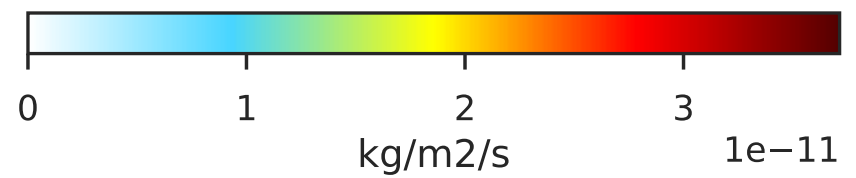
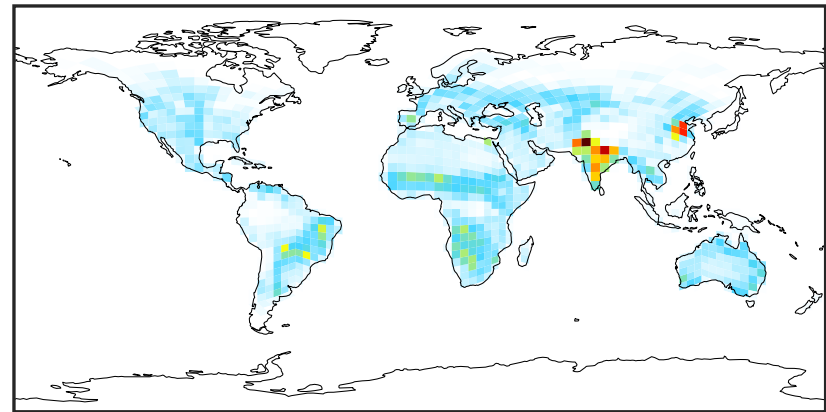


EmisNO_Soil (AnnualMean)

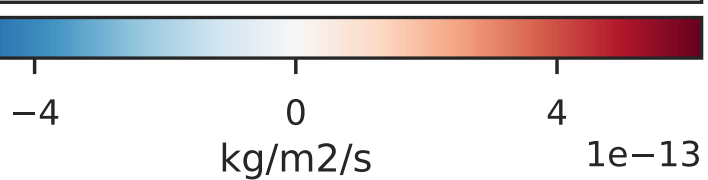
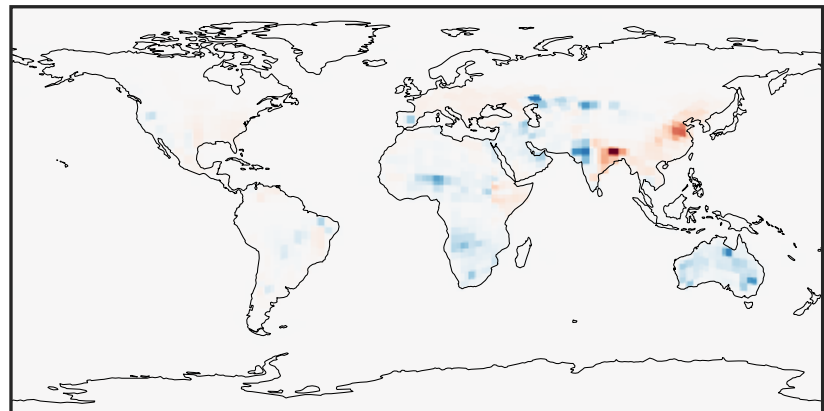
GCHP_14.0.0 (Ref)
c24



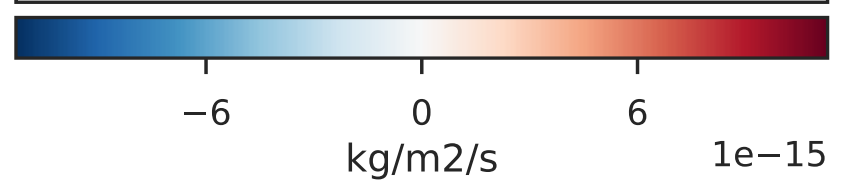
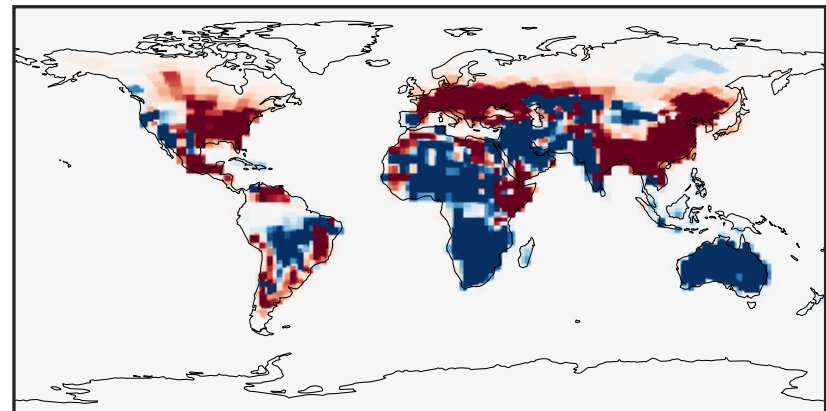
GCHP_14.2.0 (Dev)
c24



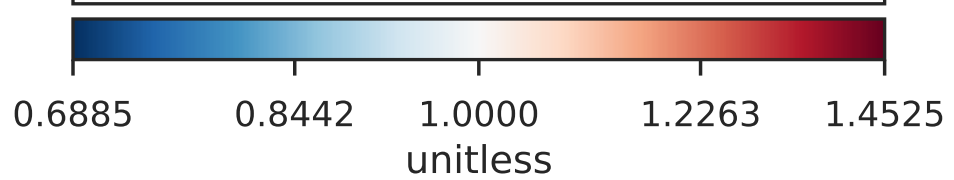
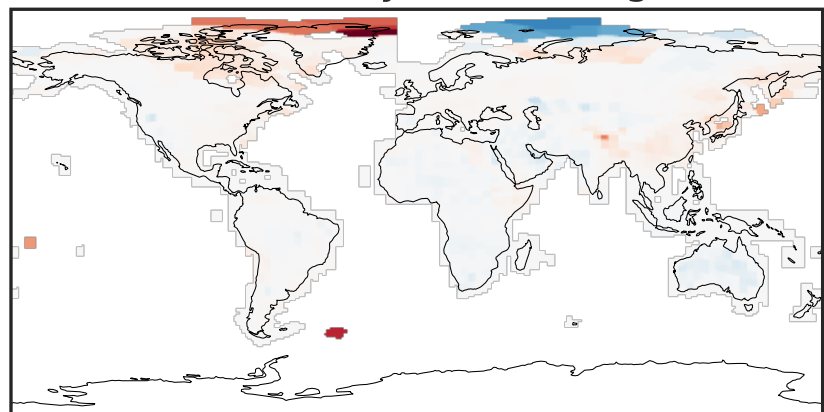
Difference (1x1.25)
Dev - Ref, Dynamic Range



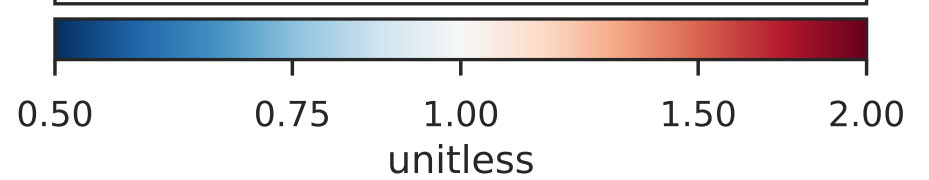
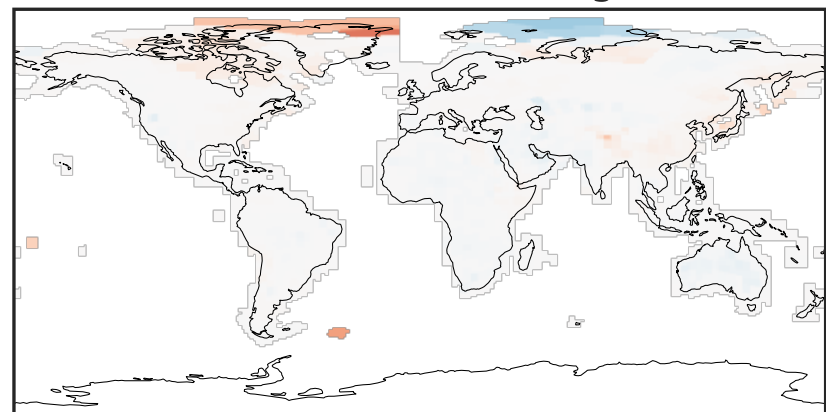
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

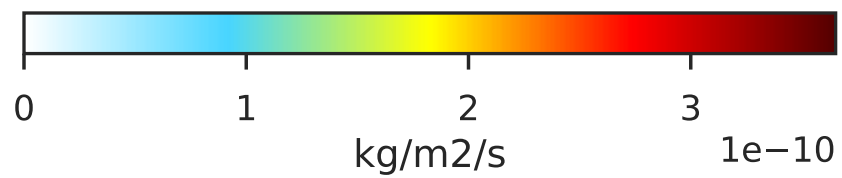
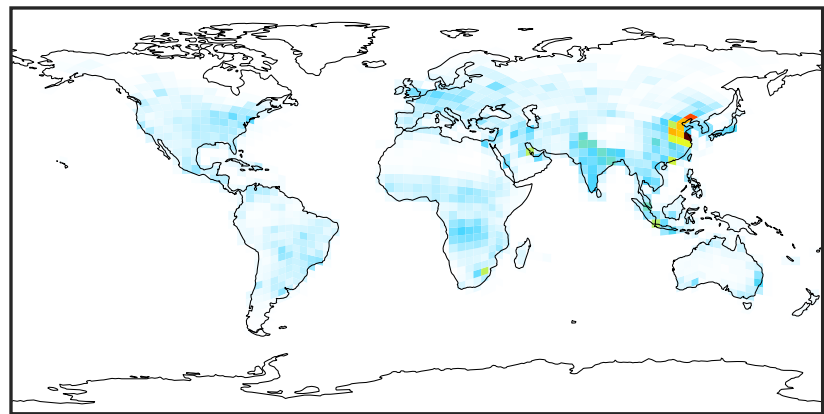


Ratio (1x1.25)
Dev/Ref, Fixed Range

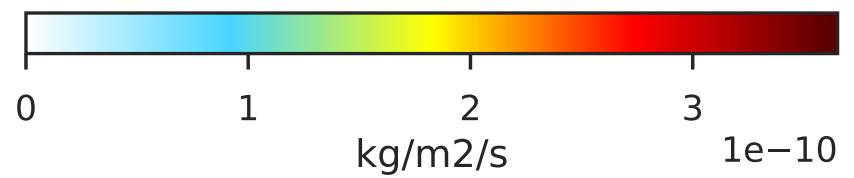
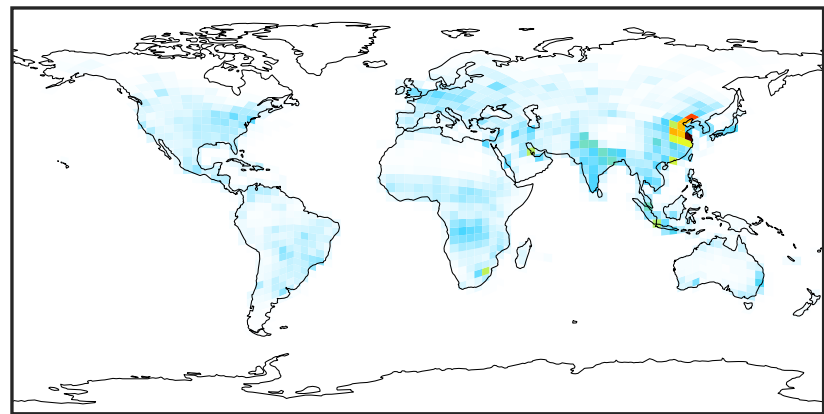


EmisNO_Total (AnnualMean)

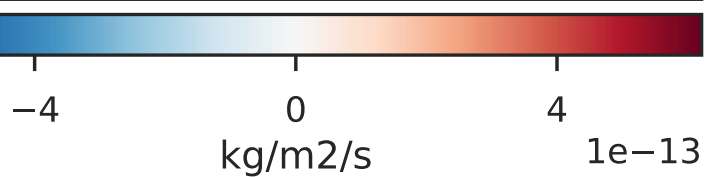
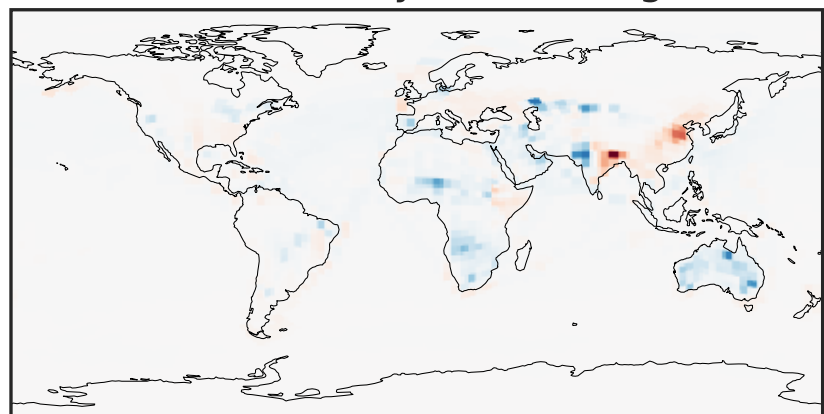
GCHP_14.0.0 (Ref)
c24



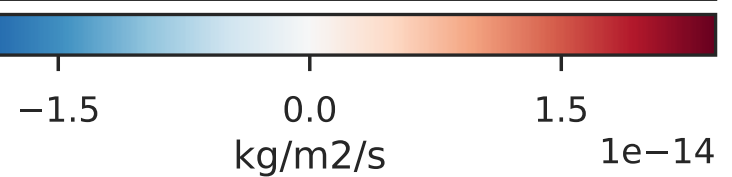
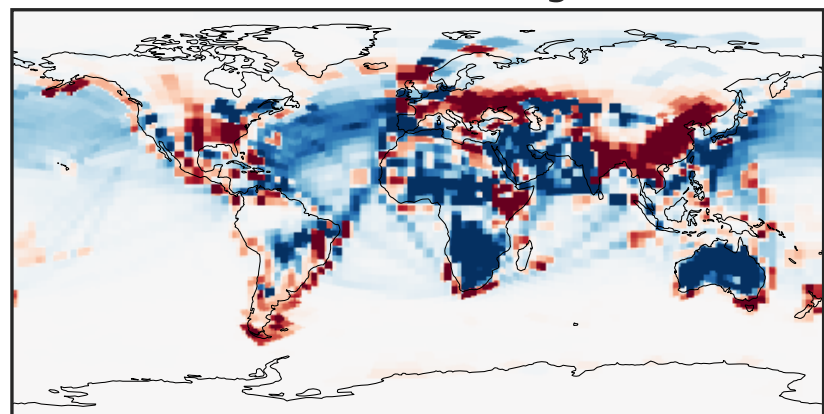
GCHP_14.2.0 (Dev)
c24



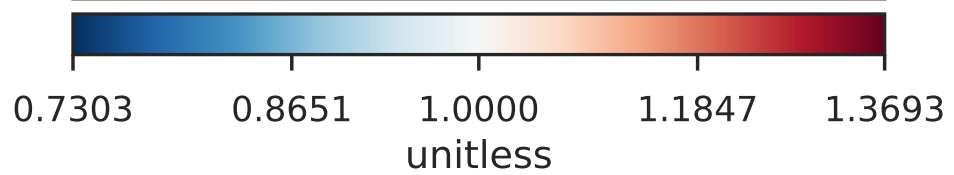
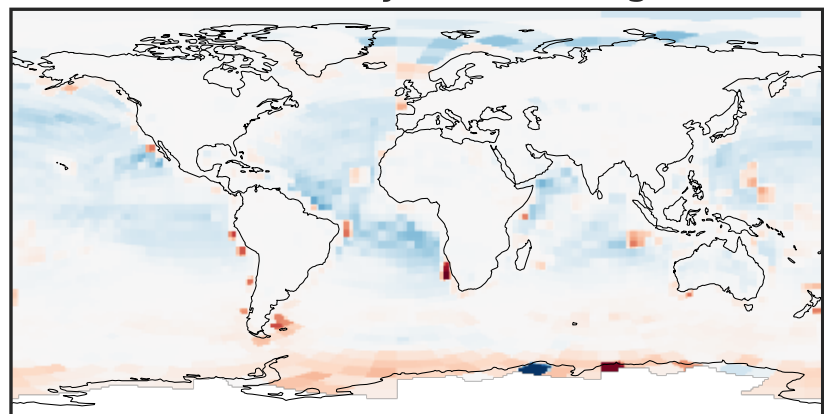
Difference (1x1.25)
Dev - Ref, Dynamic Range



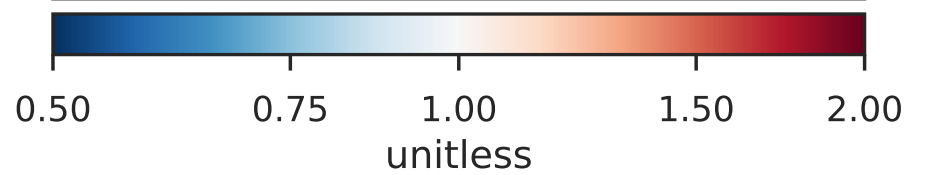
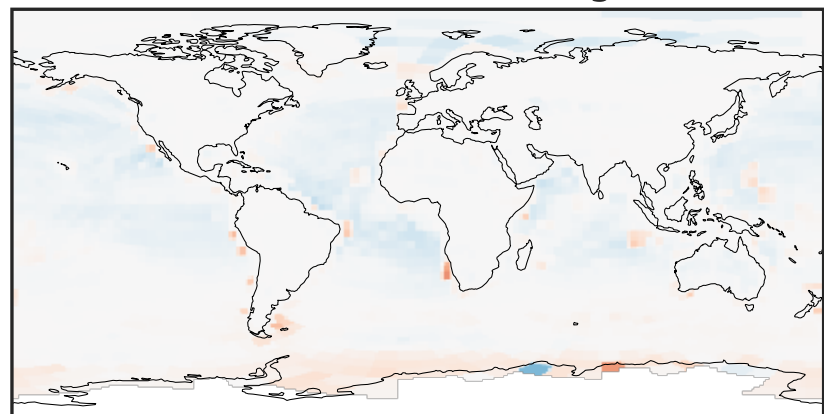
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

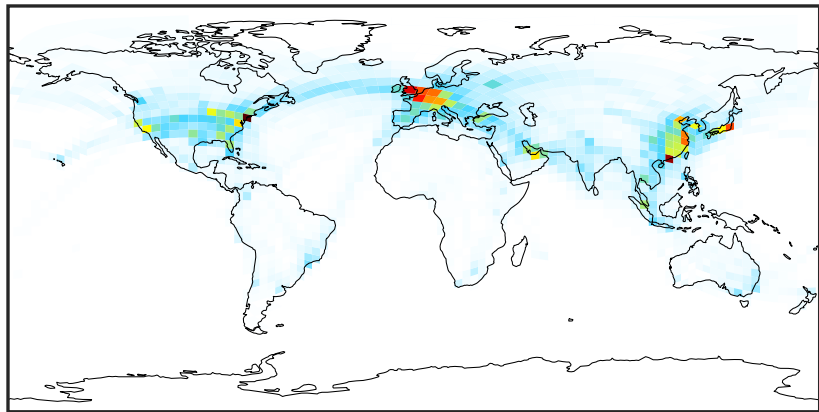


Ratio (1x1.25)
Dev/Ref, Fixed Range



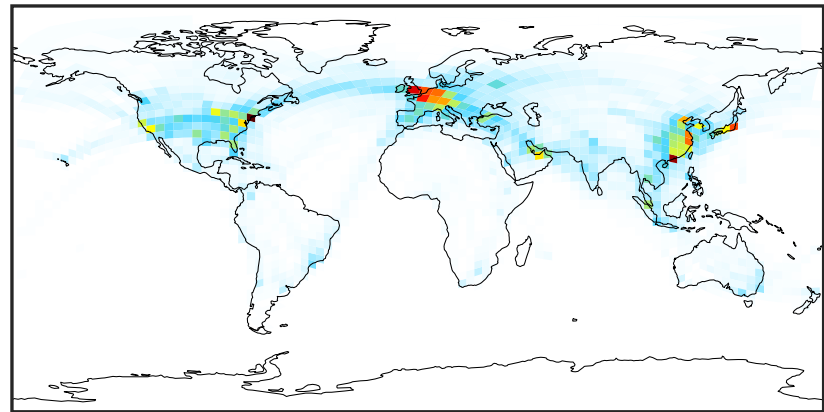
EmisNO2_Aircraft (AnnualMean)

GCHP_14.0.0 (Ref)
c24



0.0 0.4 0.8 1.2
kg/m²/s 1e-12

GCHP_14.2.0 (Dev)
c24



0.0 0.4 0.8 1.2
kg/m²/s 1e-12

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



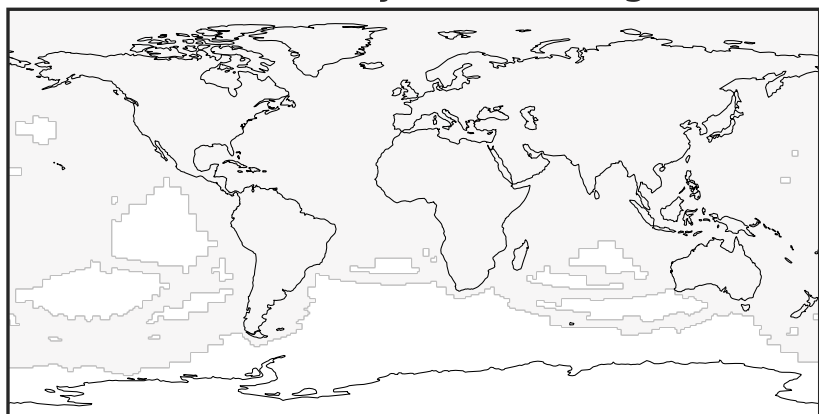
Zero throughout domain
kg/m²/s

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



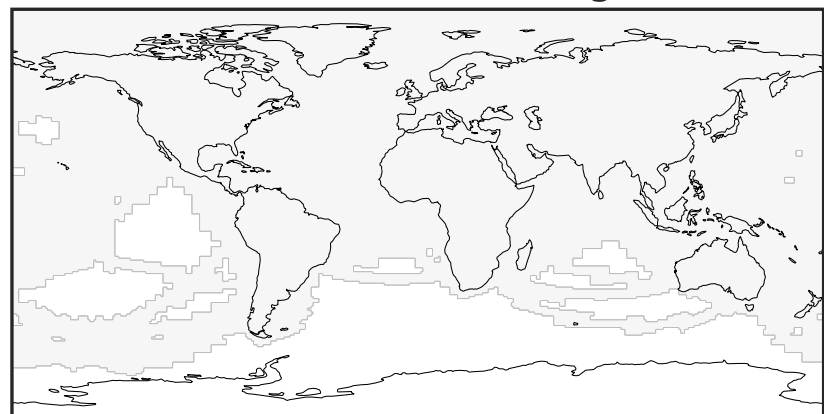
Zero throughout domain
kg/m²/s

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



Ref and Dev equal throughout domain
unitless

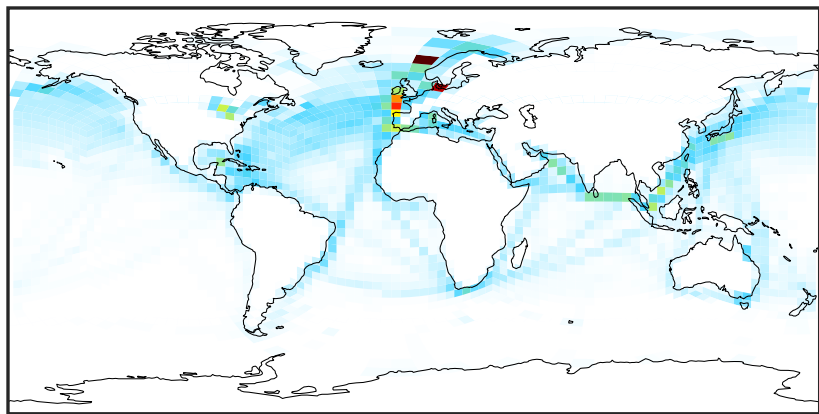
Ratio (1x1.25)
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain
unitless

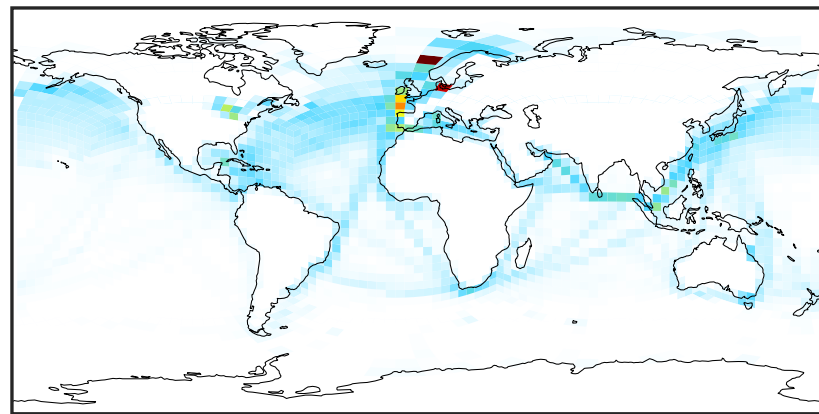
EmisNO2_Ship (AnnualMean)

GCHP_14.0.0 (Ref)
c24



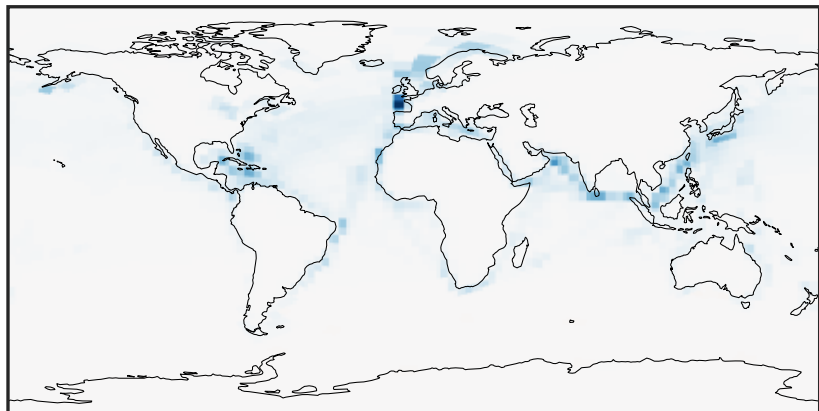
0.0 0.4 0.8 1.2 $1e-11$
kg/m²/s

GCHP_14.2.0 (Dev)
c24



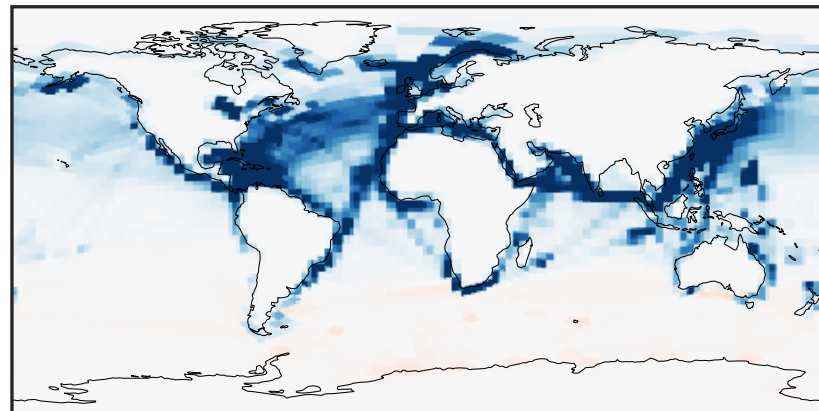
0.0 0.4 0.8 1.2 $1e-11$
kg/m²/s

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



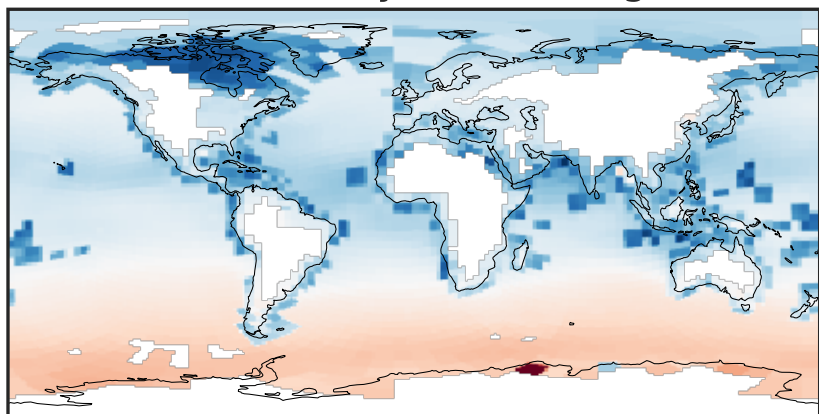
-8 0 8 $1e-13$
kg/m²/s

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



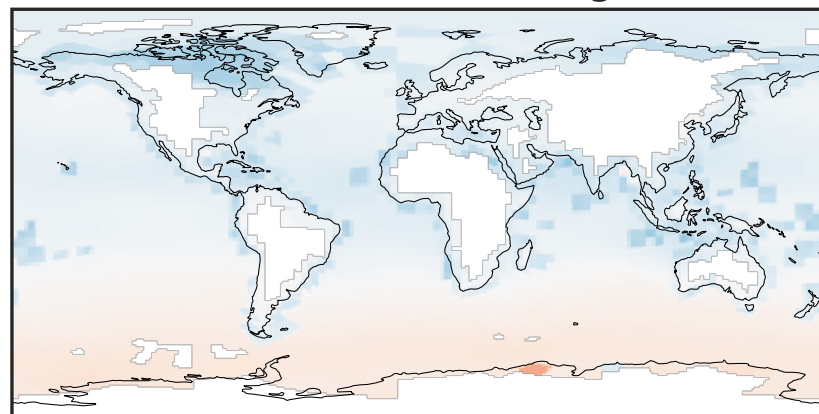
-8 0 8 $1e-14$
kg/m²/s

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



0.7695 0.8848 1.0000 1.1497 1.2995
unitless

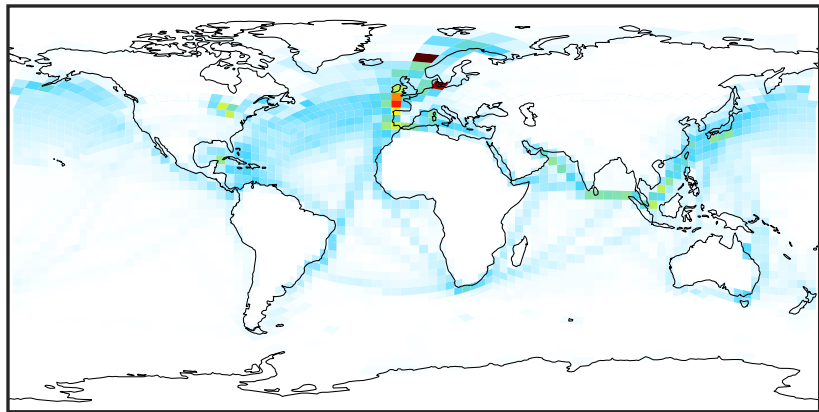
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

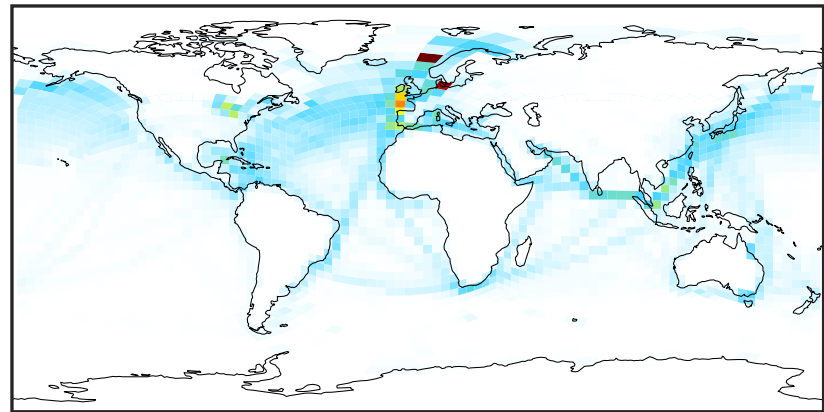
EmisNO2_Total (AnnualMean)

GCHP_14.0.0 (Ref)
c24



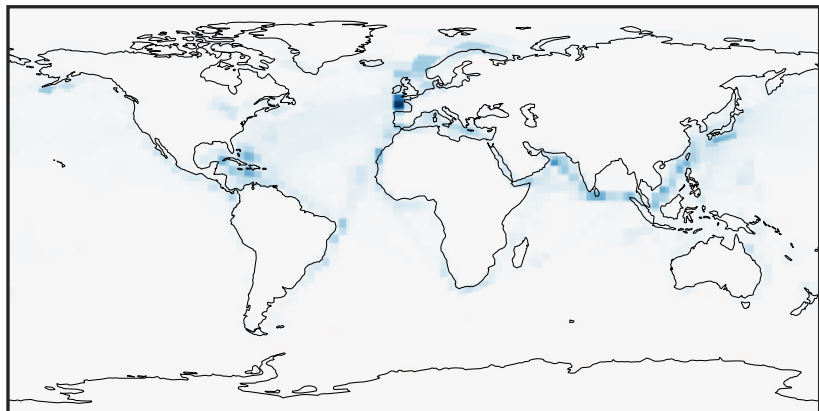
0.0 0.4 0.8 1.2 $1e-11$
kg/m²/s

GCHP_14.2.0 (Dev)
c24



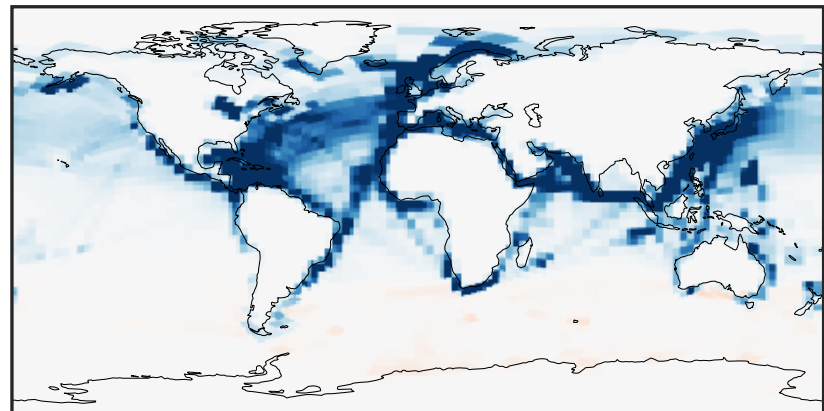
0.0 0.4 0.8 1.2 $1e-11$
kg/m²/s

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



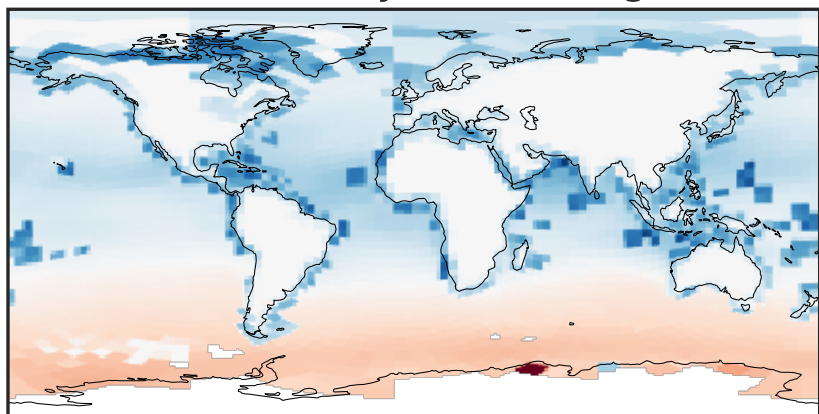
-8 0 8 $1e-13$
kg/m²/s

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



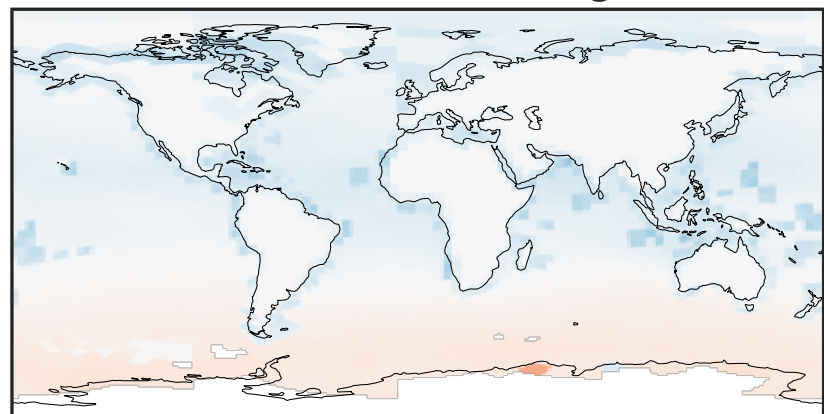
-8 0 8 $1e-14$
kg/m²/s

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



0.7695 0.8848 1.0000 1.1497 1.2995
unitless

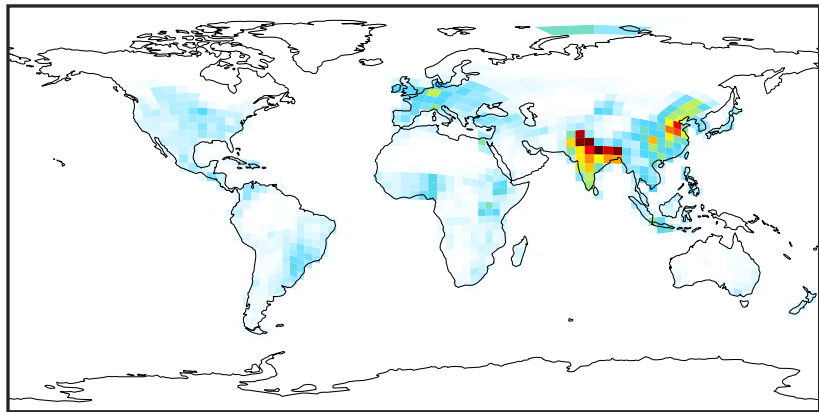
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

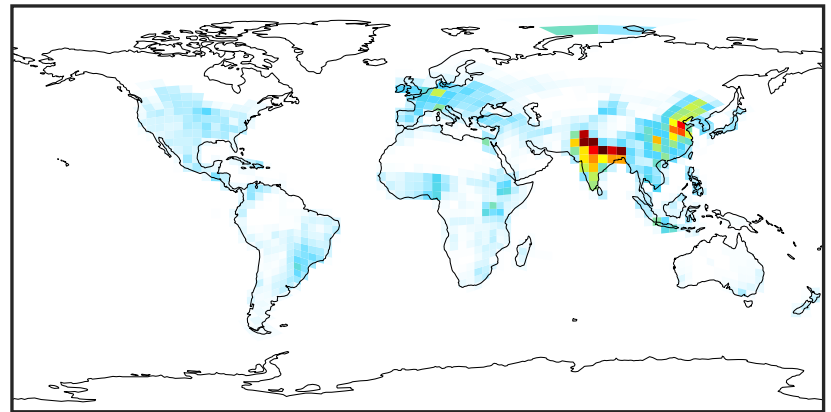
EmisNH3_Anthro (AnnualMean)

GCHP_14.0.0 (Ref)
c24



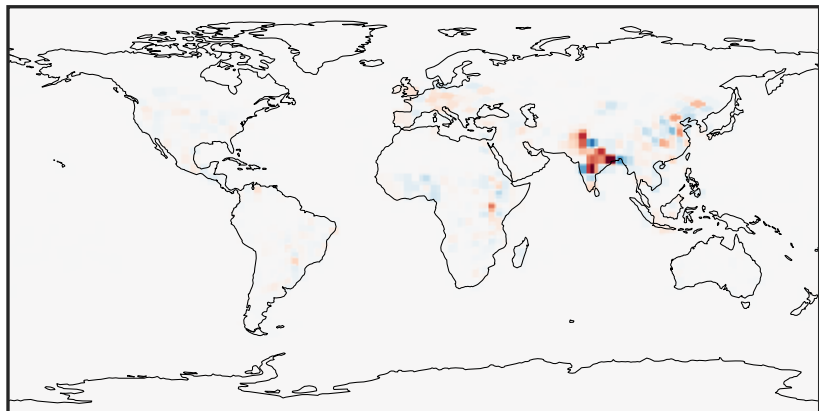
0.0 0.5 1.0 1.5
kg/m²/s 1e-10

GCHP_14.2.0 (Dev)
c24



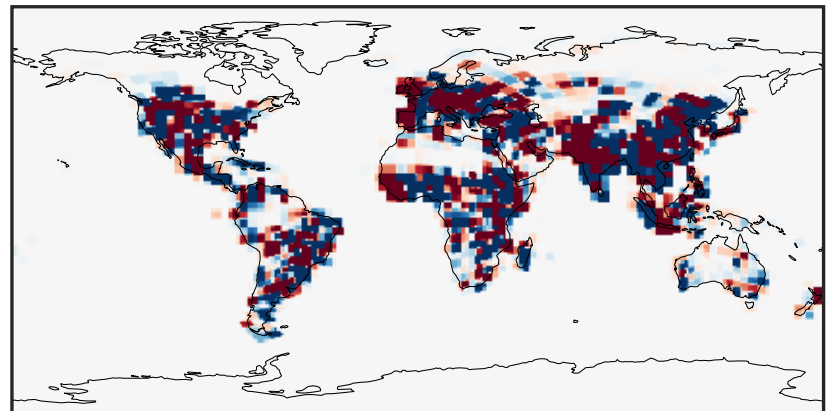
0.0 0.5 1.0 1.5
kg/m²/s 1e-10

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



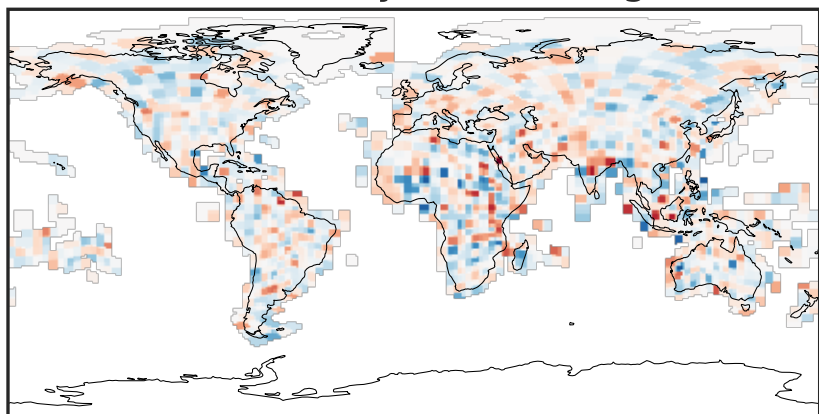
-3 0 3
kg/m²/s 1e-15

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



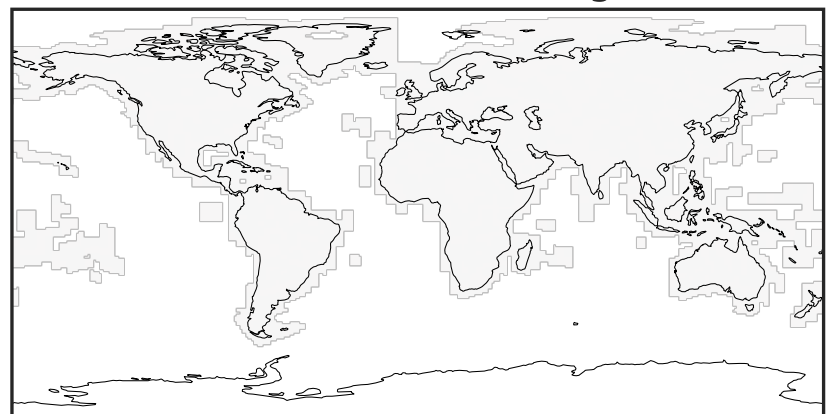
-3 0 3
kg/m²/s 1e-17

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



0.9999302 1.000000 1.0000698
unitless

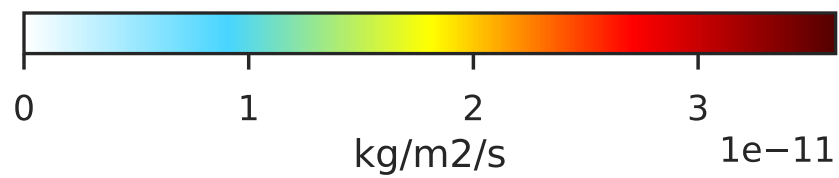
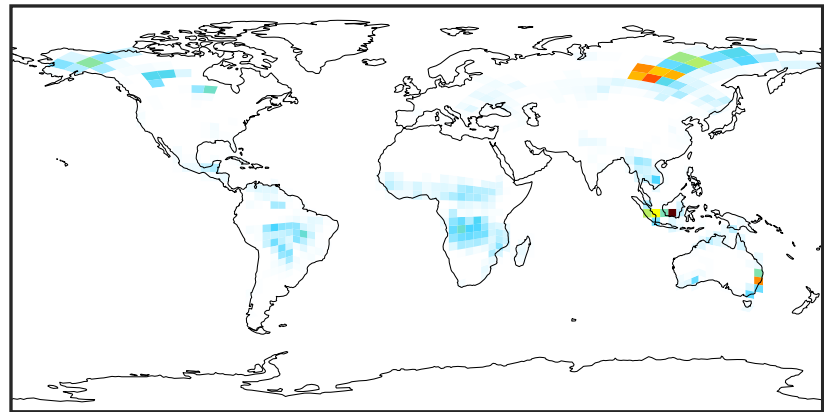
Ratio (1x1.25)
Dev/Ref, Fixed Range



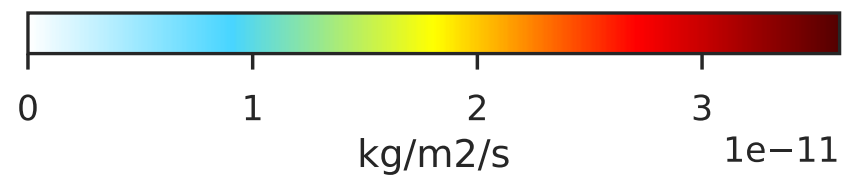
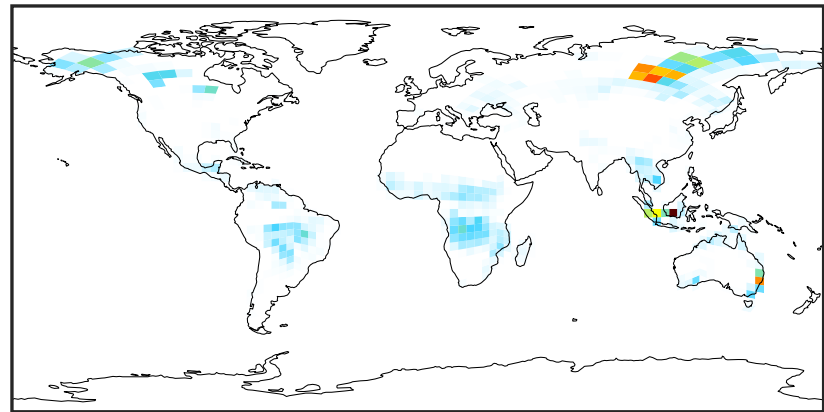
0.50 0.75 1.00 1.50 2.00
unitless

EmisNH3_BioBurn (AnnualMean)

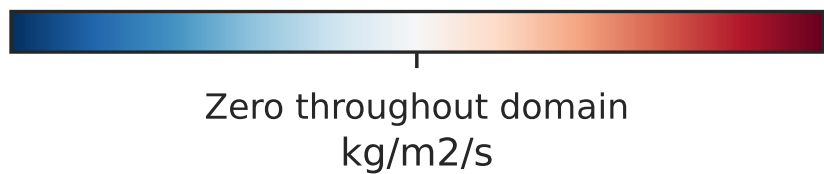
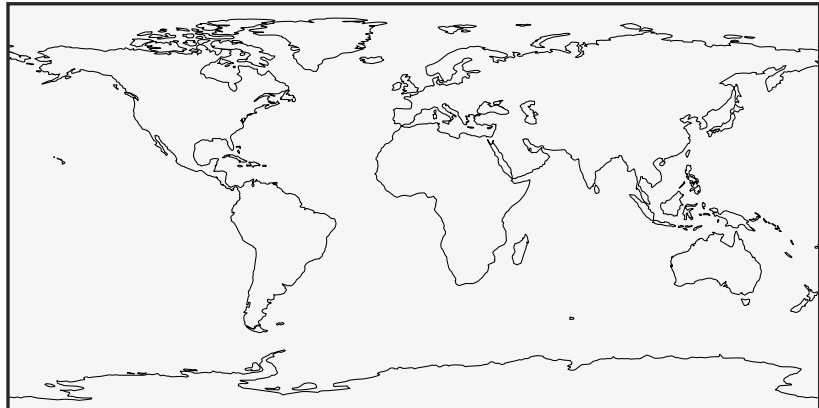
GCHP_14.0.0 (Ref)
c24



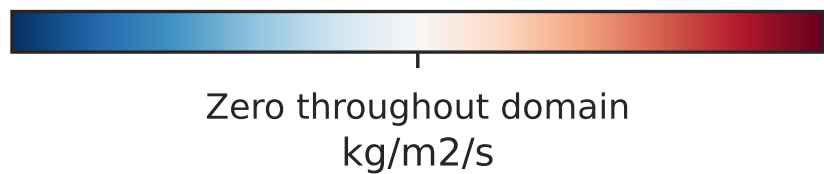
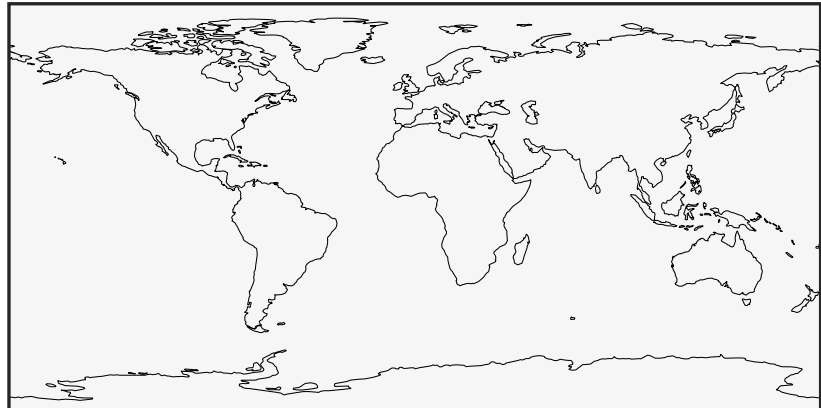
GCHP_14.2.0 (Dev)
c24



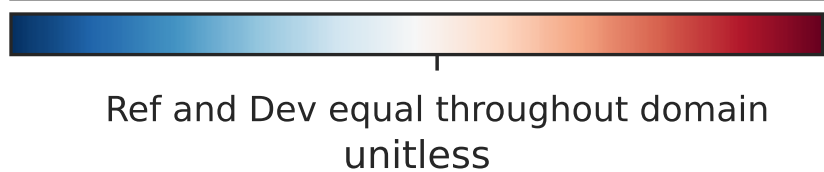
Difference (1x1.25)
Dev - Ref, Dynamic Range



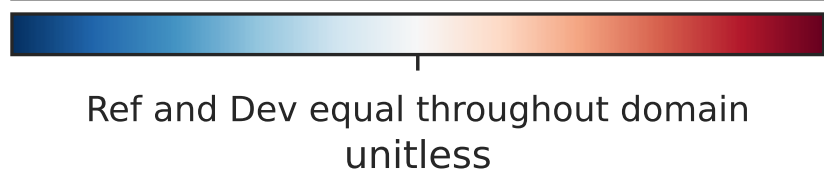
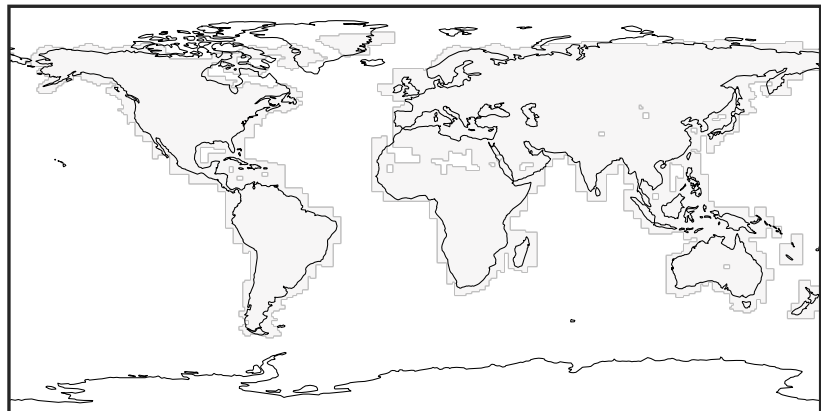
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

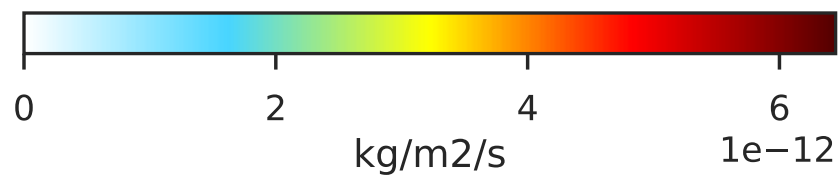
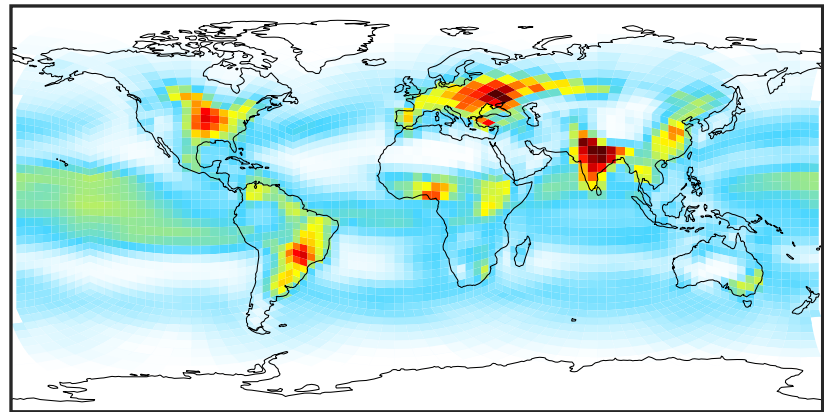


Ratio (1x1.25)
Dev/Ref, Fixed Range

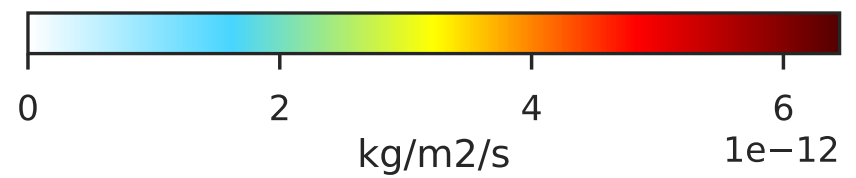
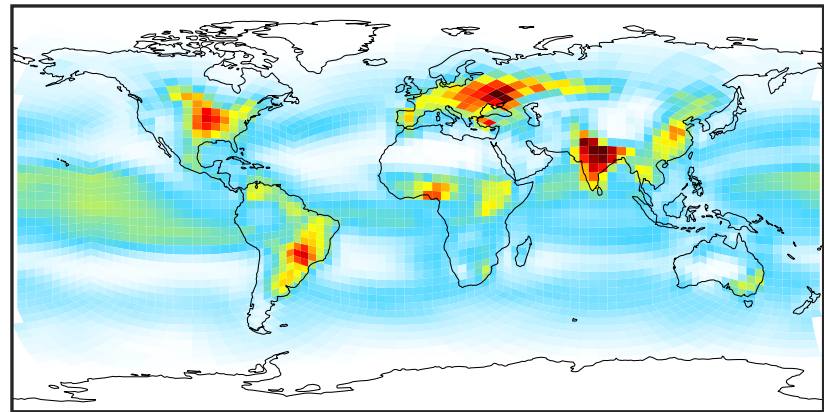


EmisNH3_Natural (AnnualMean)

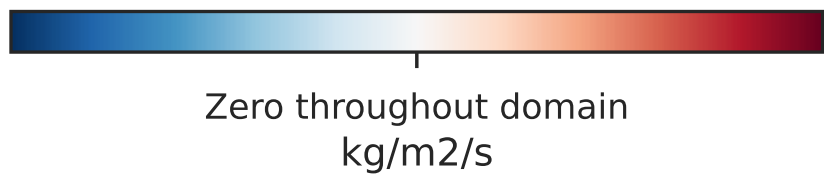
GCHP_14.0.0 (Ref)
c24



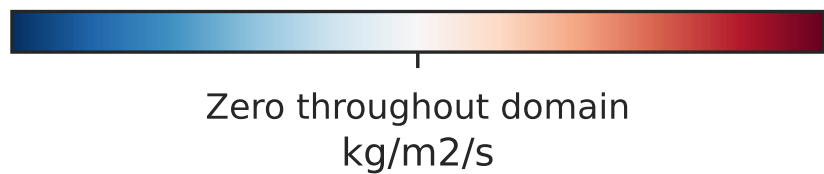
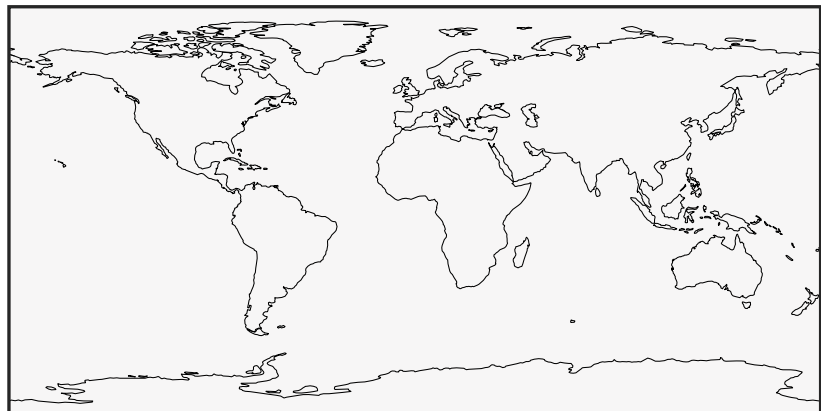
GCHP_14.2.0 (Dev)
c24



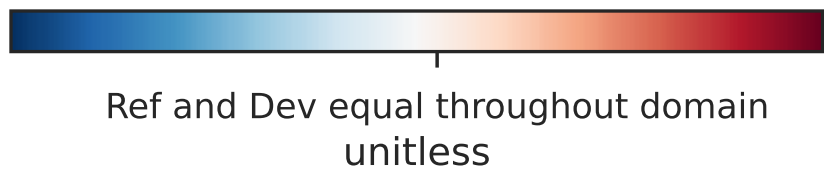
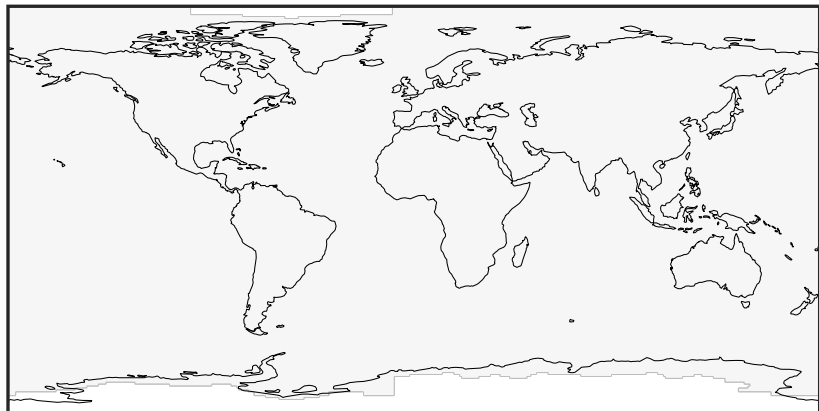
Difference (1x1.25)
Dev - Ref, Dynamic Range



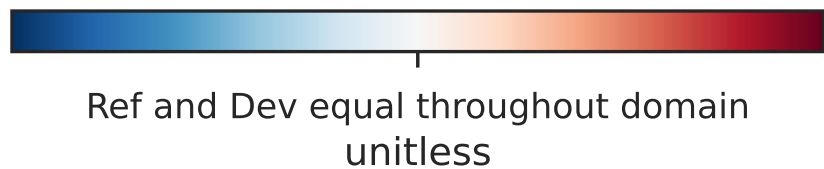
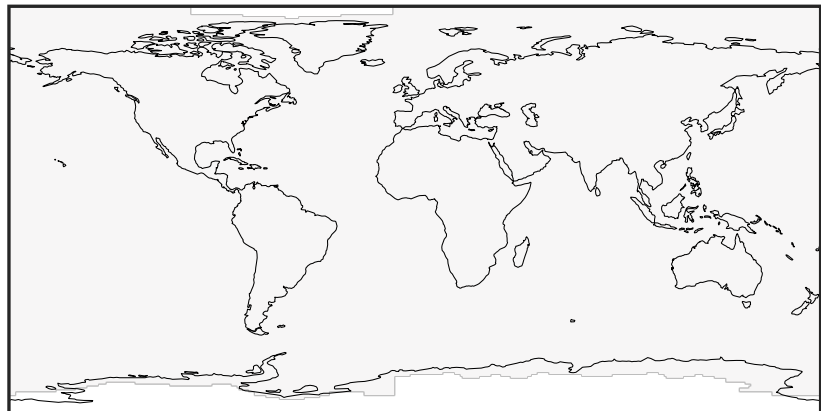
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

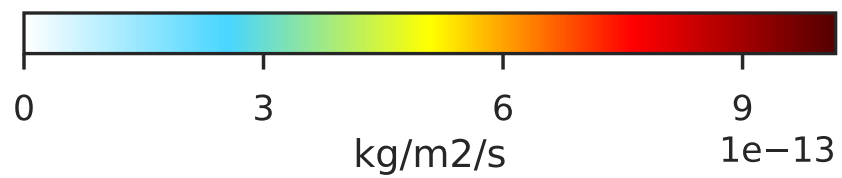
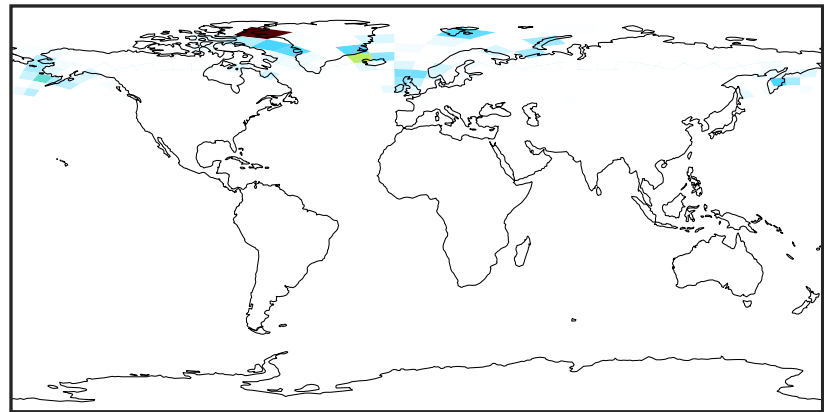


Ratio (1x1.25)
Dev/Ref, Fixed Range

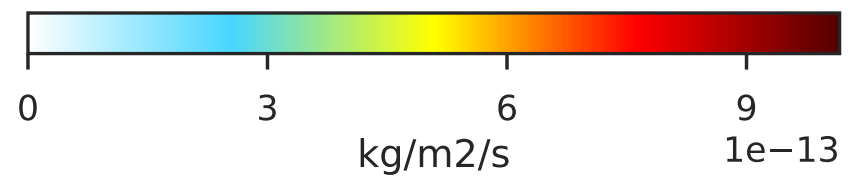
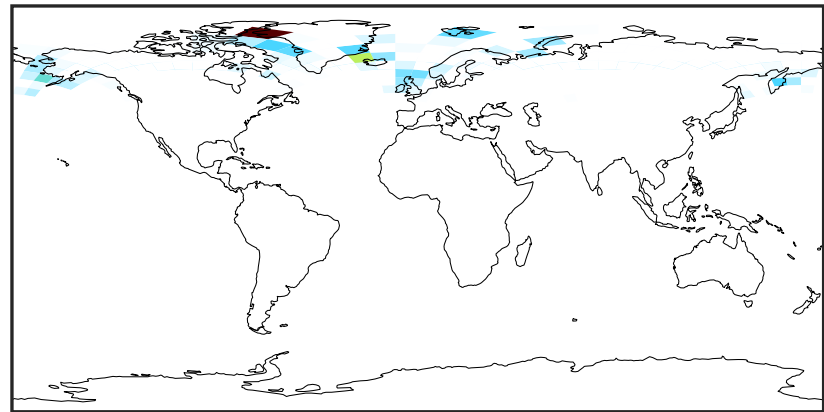


EmisNH3_Seabirds (AnnualMean)

GCHP_14.0.0 (Ref)
c24



GCHP_14.2.0 (Dev)
c24



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



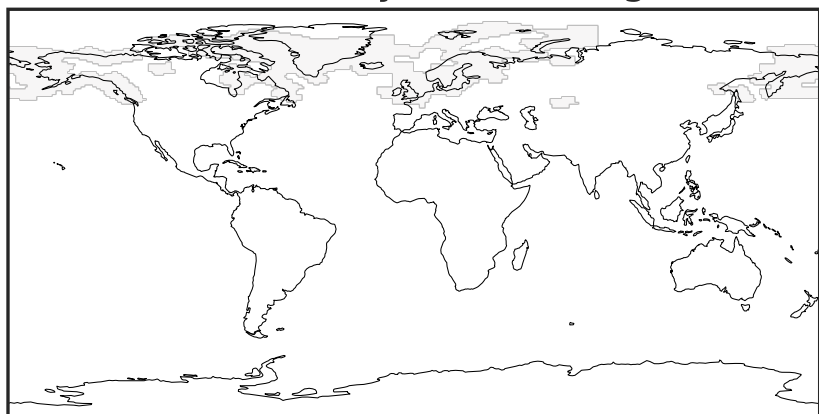
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

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



Ref and Dev equal throughout domain
unitless

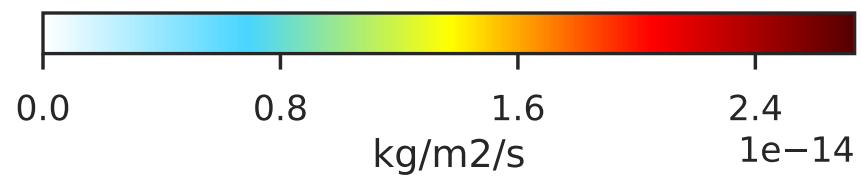
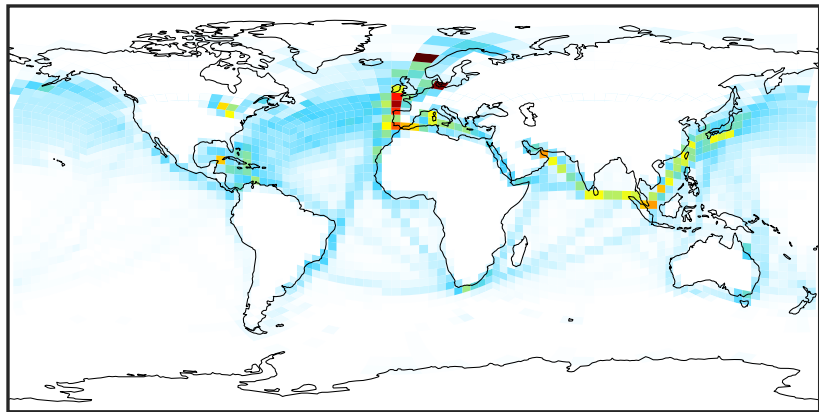
Ratio (1x1.25)
Dev/Ref, Fixed Range



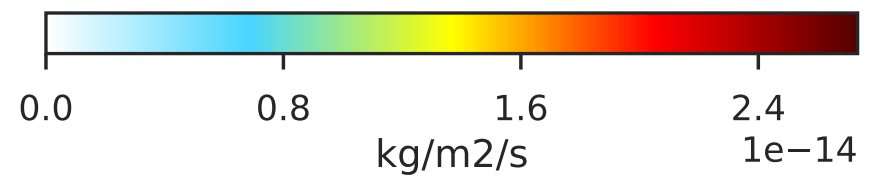
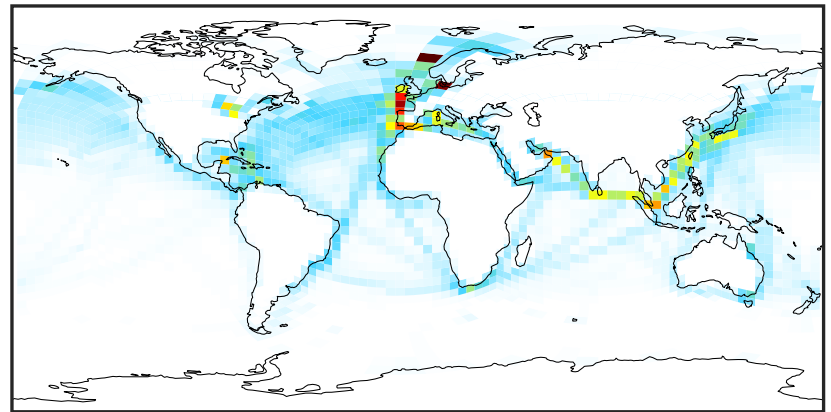
Ref and Dev equal throughout domain
unitless

EmisNH3_Ship (AnnualMean)

GCHP_14.0.0 (Ref)
c24



GCHP_14.2.0 (Dev)
c24

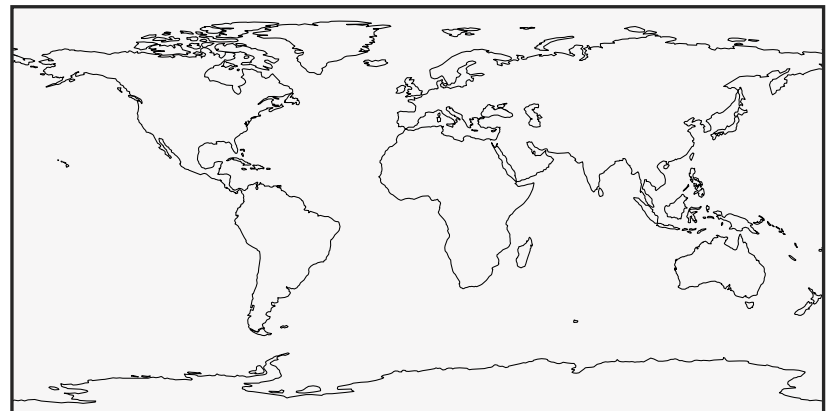


Difference (1x1.25)
Dev - Ref, Dynamic Range



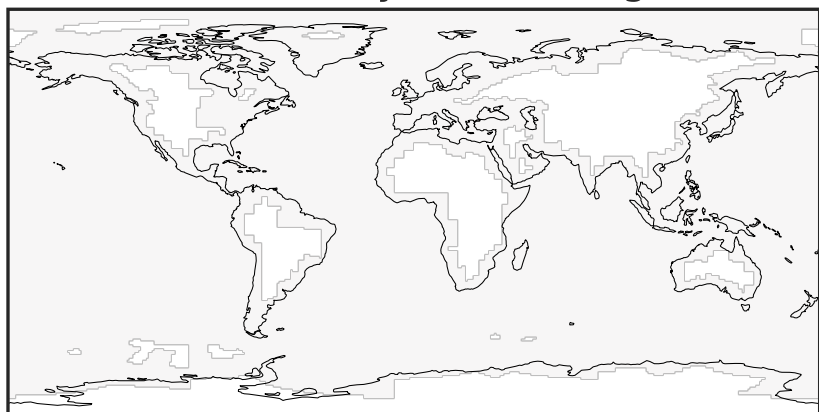
Zero throughout domain
kg/m2/s

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



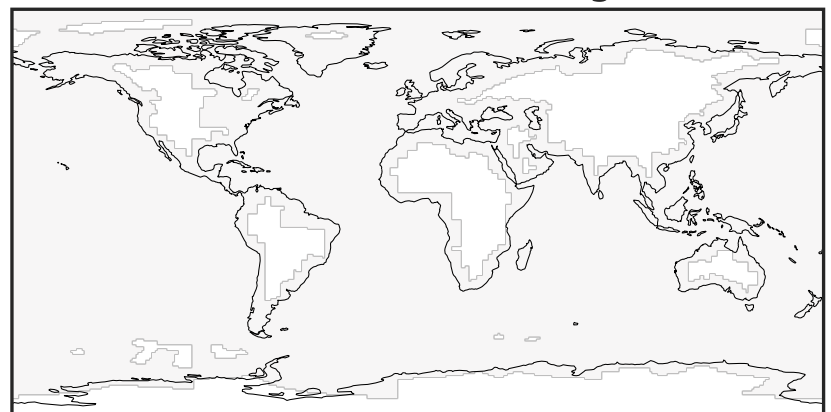
Zero throughout domain
kg/m2/s

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



Ref and Dev equal throughout domain
unitless

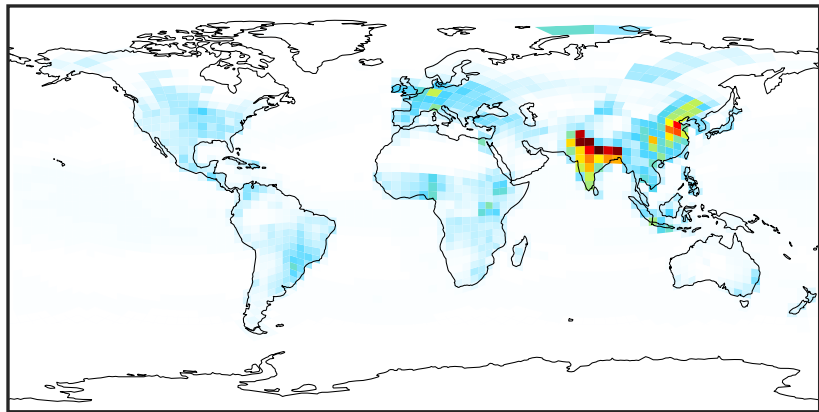
Ratio (1x1.25)
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain
unitless

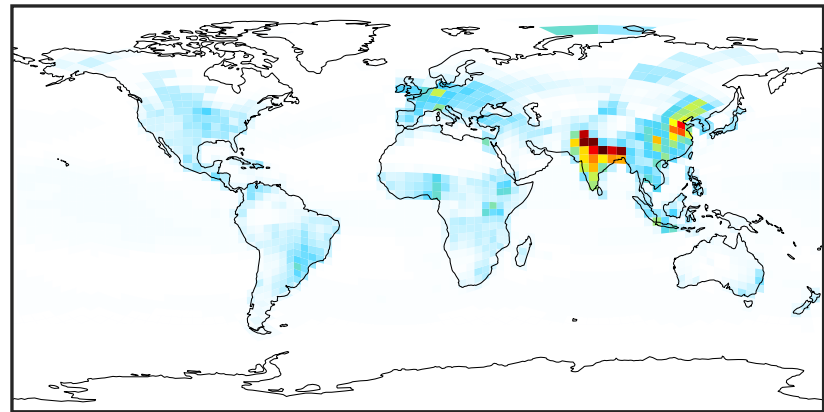
EmisNH3_Total (AnnualMean)

GCHP_14.0.0 (Ref)
c24



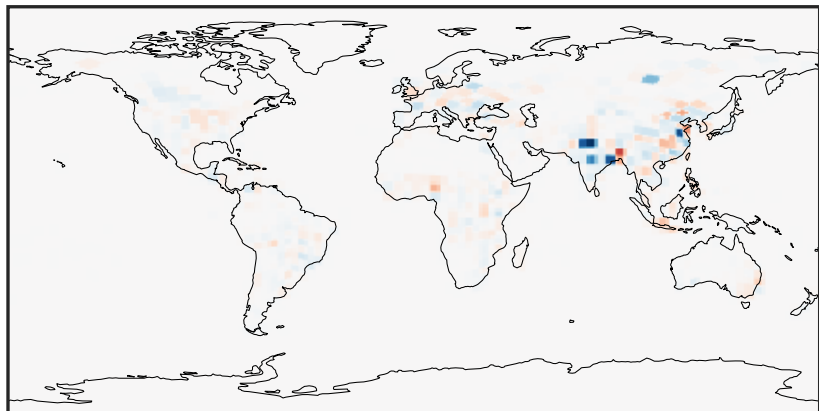
0.0 0.5 1.0 1.5
kg/m²/s 1e-10

GCHP_14.2.0 (Dev)
c24



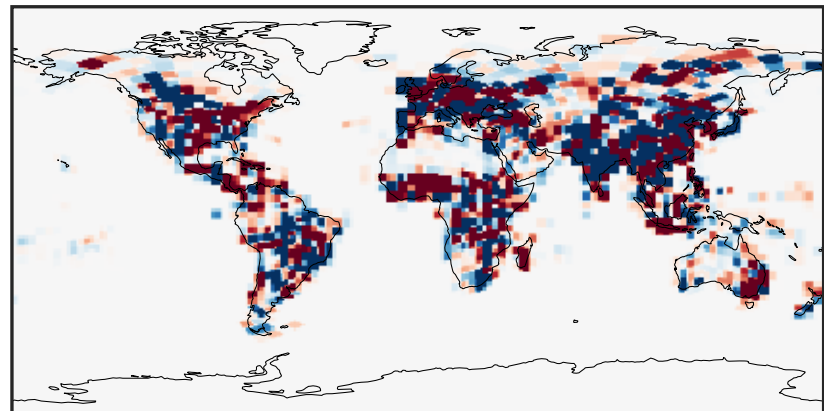
0.0 0.5 1.0 1.5
kg/m²/s 1e-10

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



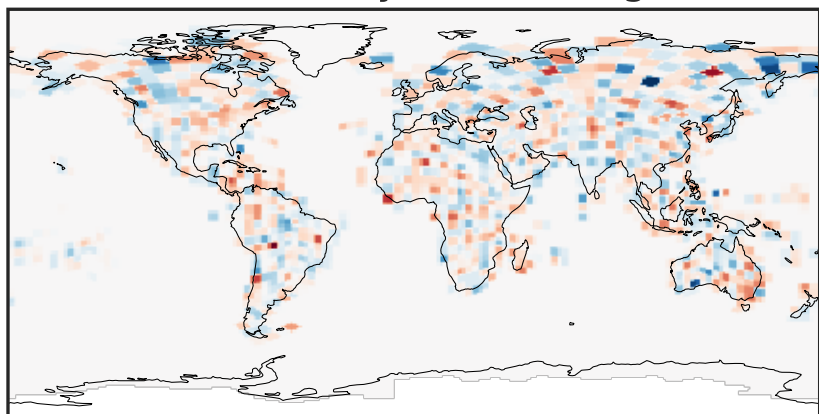
-2.5 0.0 2.5
kg/m²/s 1e-15

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



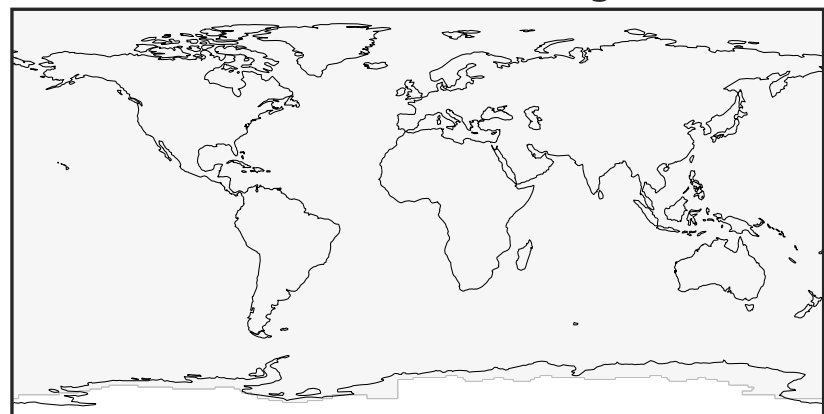
-4 0 4
kg/m²/s 1e-17

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



0.9999401 1.0000000 1.0000599
unitless

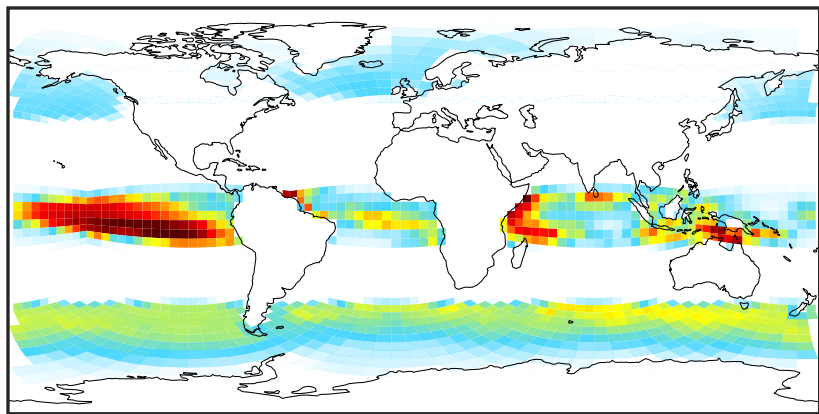
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

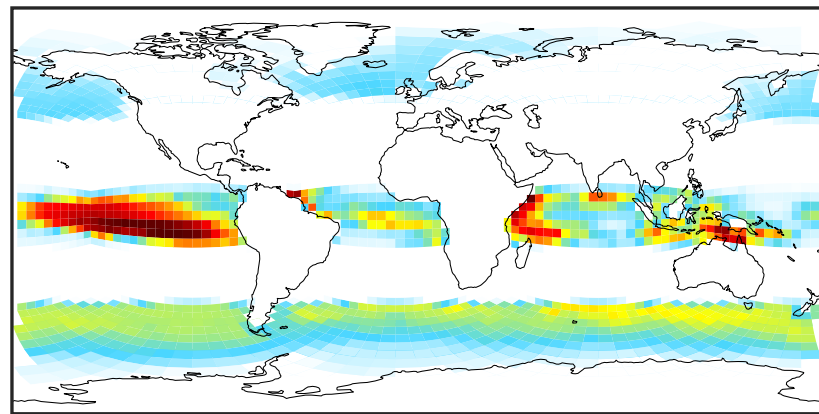
EmisMENO3_Ocean (AnnualMean)

GCHP_14.0.0 (Ref)
c24



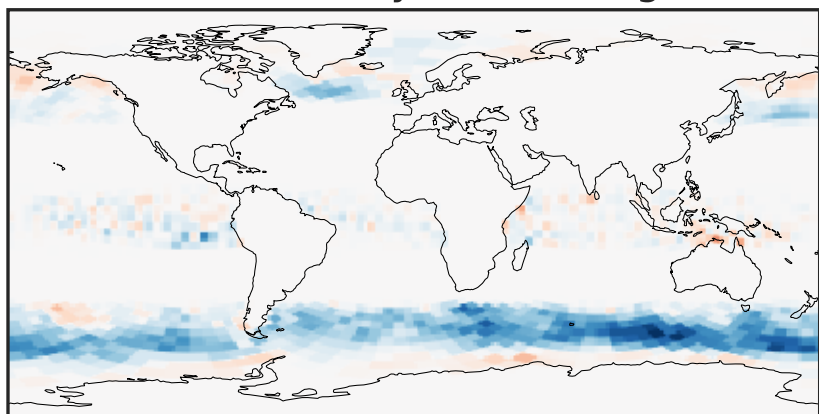
0.0 1.5 3.0 $1e-13$
kg/m²/s

GCHP_14.2.0 (Dev)
c24



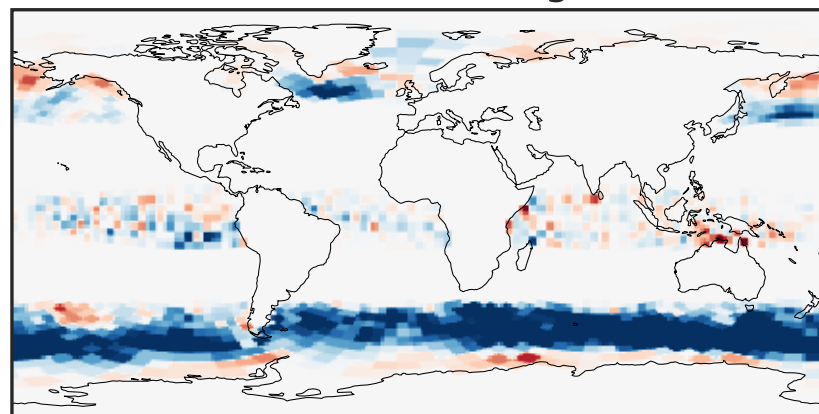
0.0 1.5 3.0 $1e-13$
kg/m²/s

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



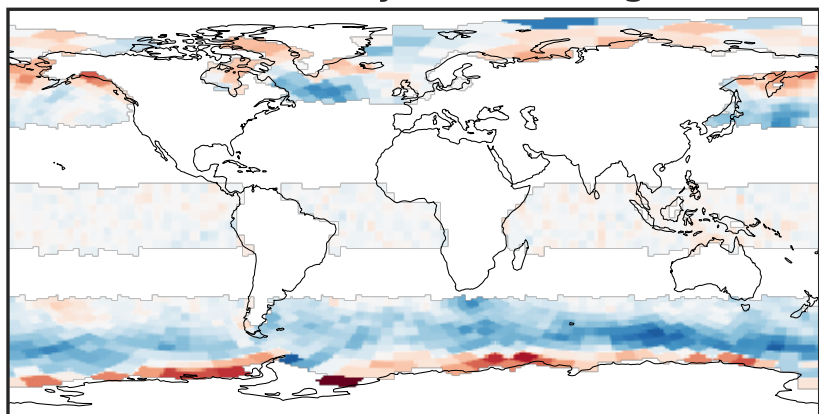
-3 0 3 $1e-19$
kg/m²/s

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



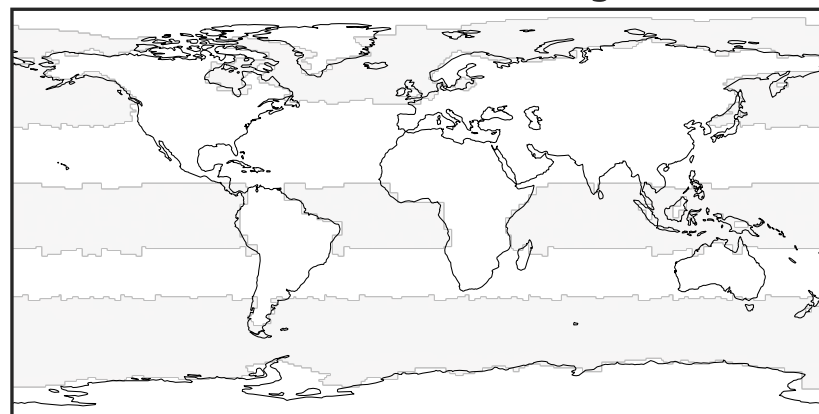
-1.5 0.0 1.5 $1e-19$
kg/m²/s

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



0.99999498 1.0000000 1.00000502
unitless

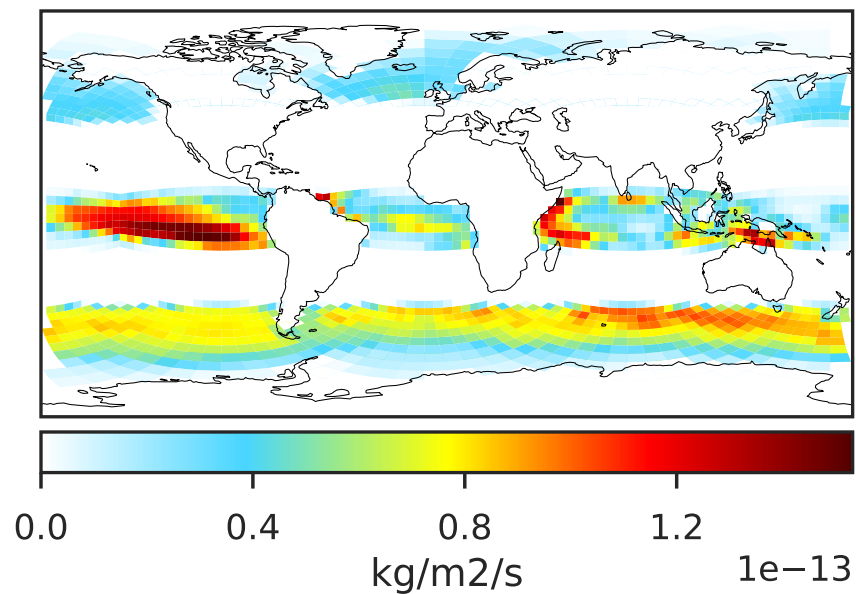
Ratio (1x1.25)
Dev/Ref, Fixed Range



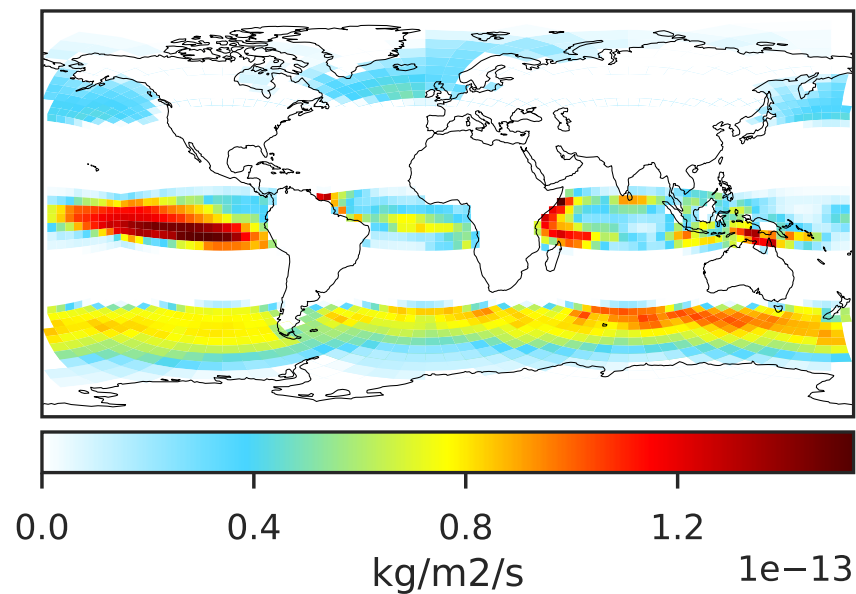
0.50 0.75 1.00 1.50 2.00
unitless

EmisETNO3_Ocean (AnnualMean)

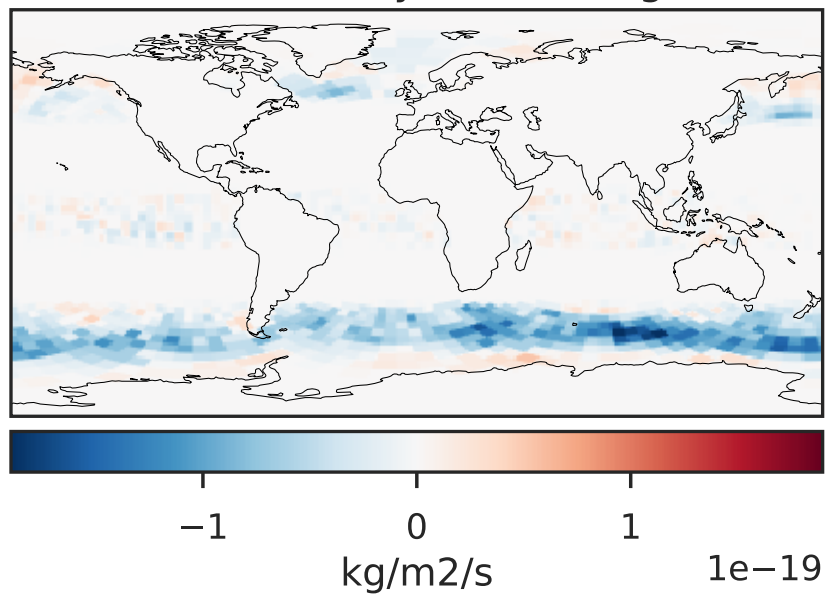
GCHP_14.0.0 (Ref)
c24



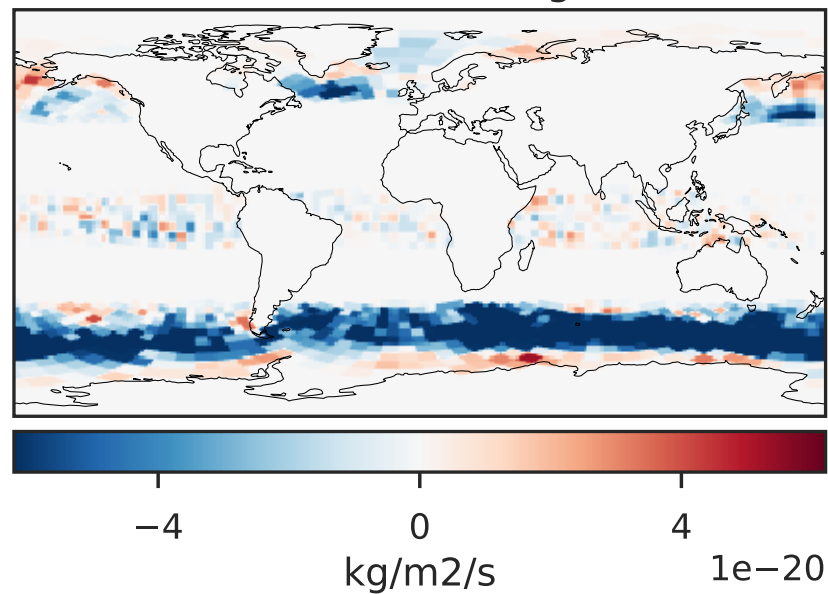
GCHP_14.2.0 (Dev)
c24



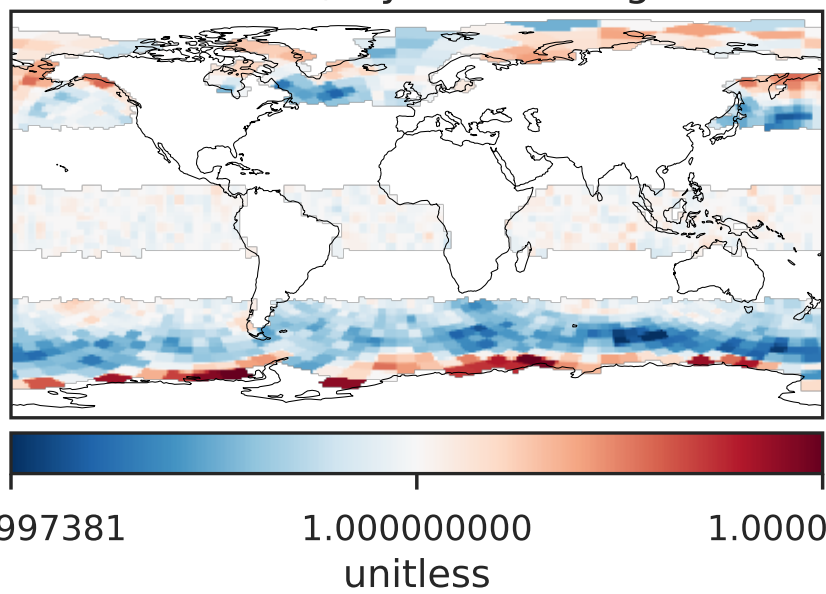
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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



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

