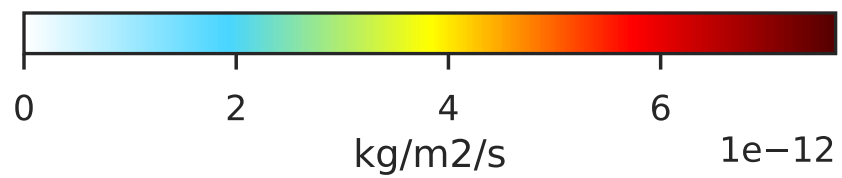
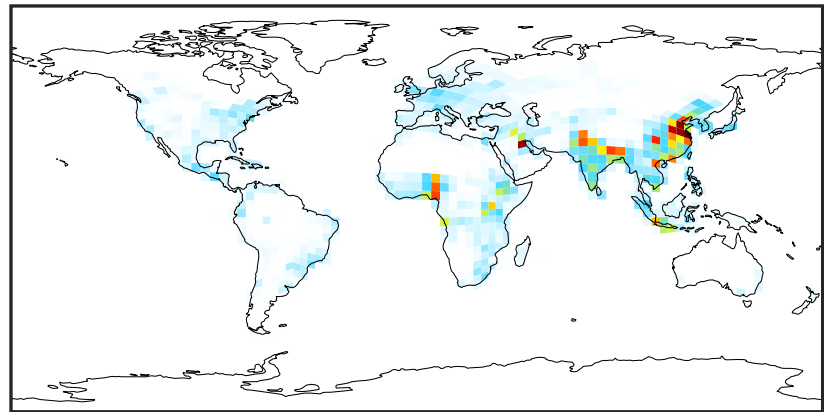
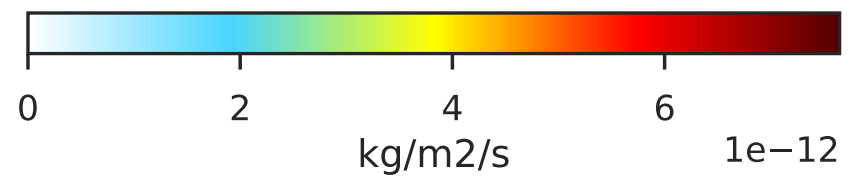
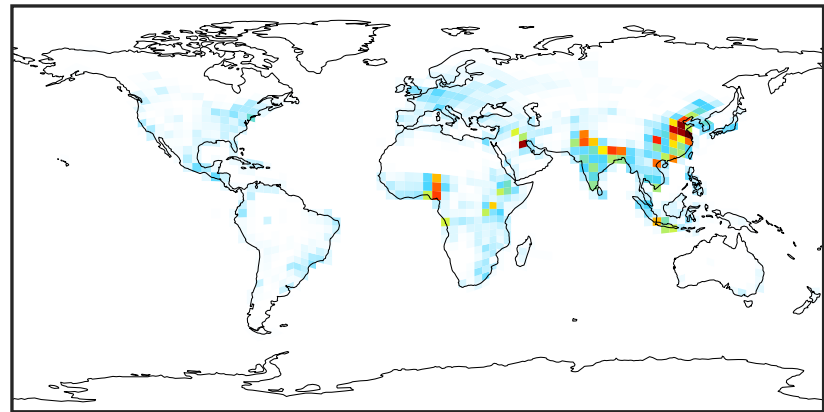


# EmisEOH\_Anthro (Apr2019)

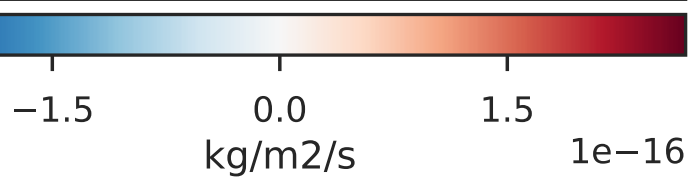
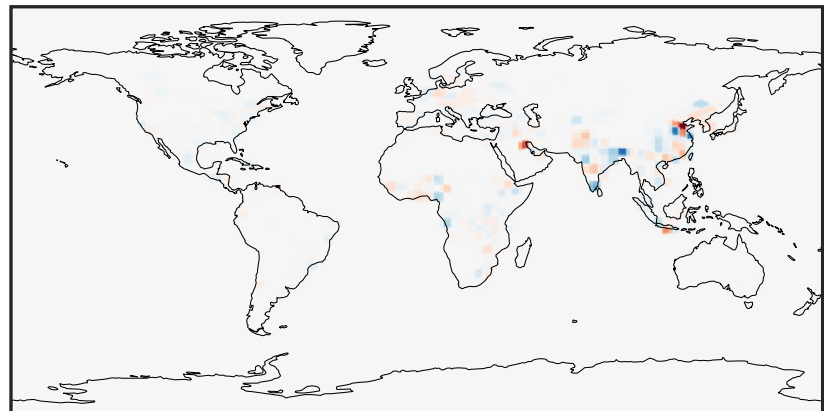
GCHP\_14.0.0 (Ref)  
c24



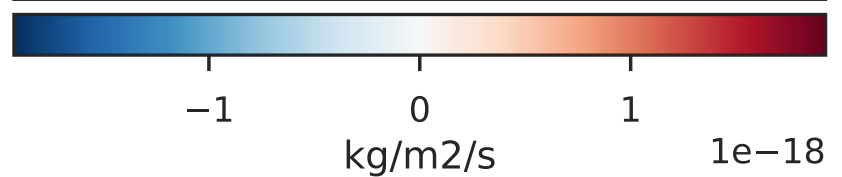
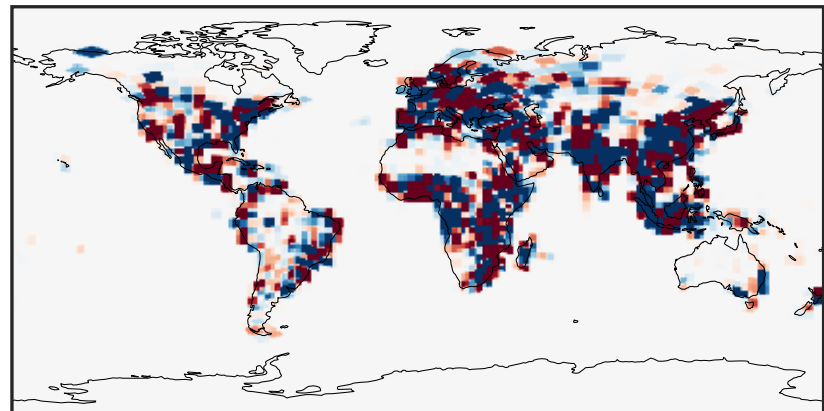
GCHP\_14.2.0 (Dev)  
c24



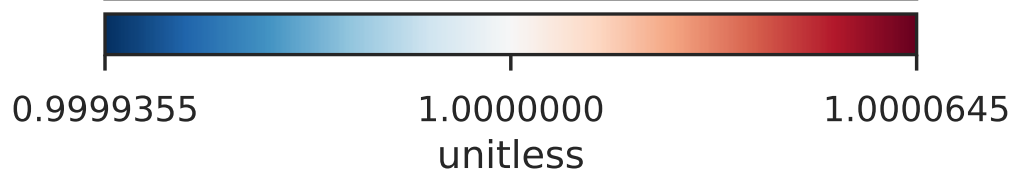
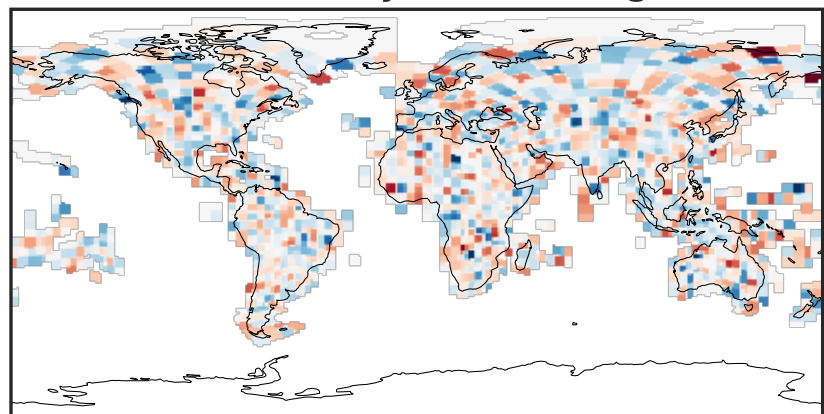
Difference (1x1.25)  
Dev - Ref, Dynamic Range



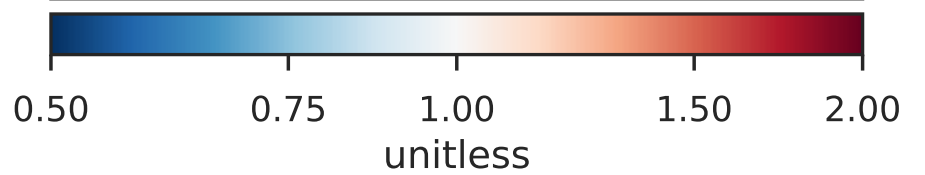
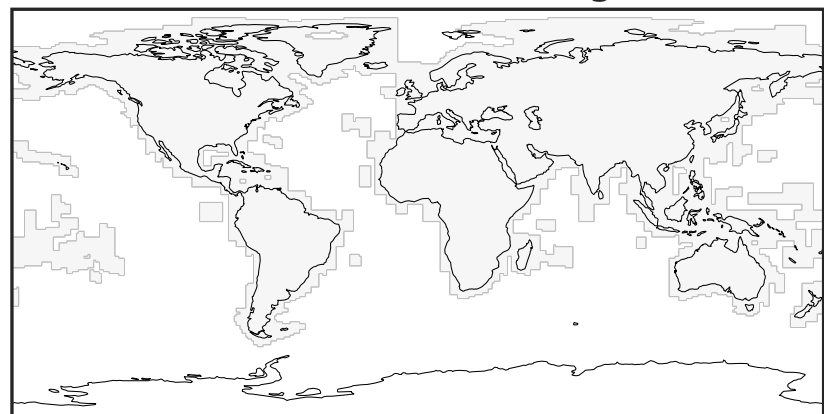
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

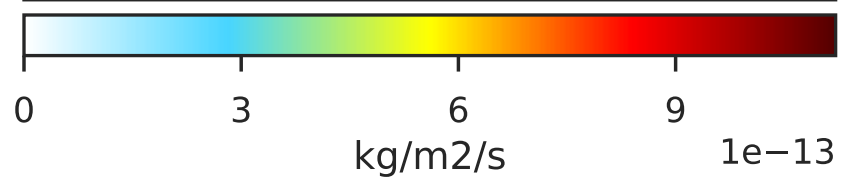
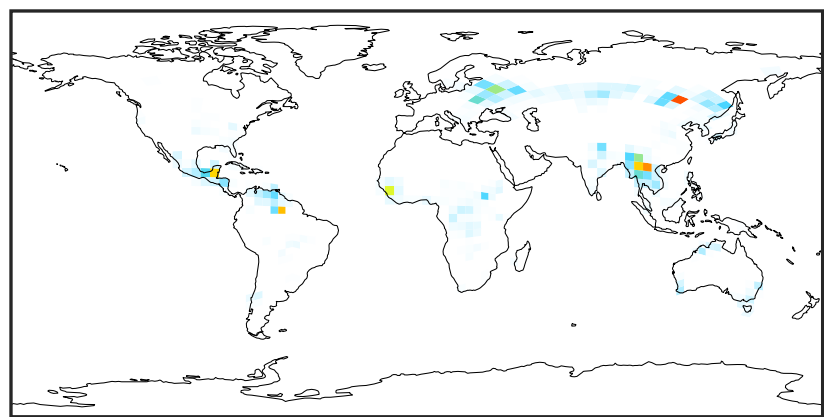


Ratio (1x1.25)  
Dev/Ref, Fixed Range

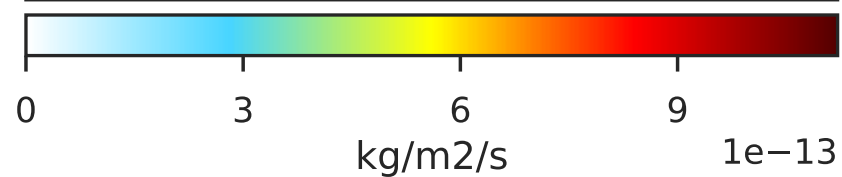
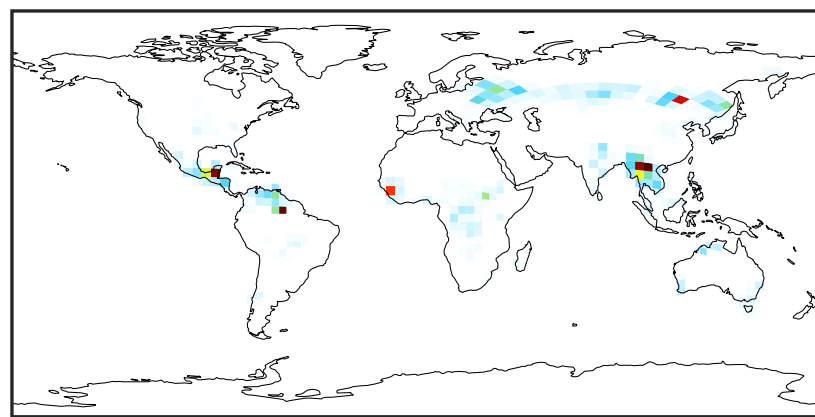


# EmisEOH\_BioBurn (Apr2019)

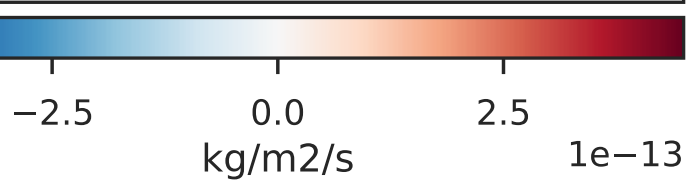
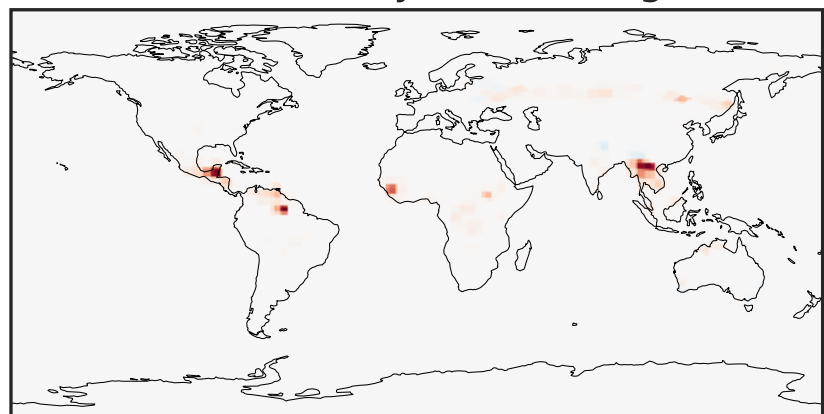
GCHP\_14.0.0 (Ref)  
c24



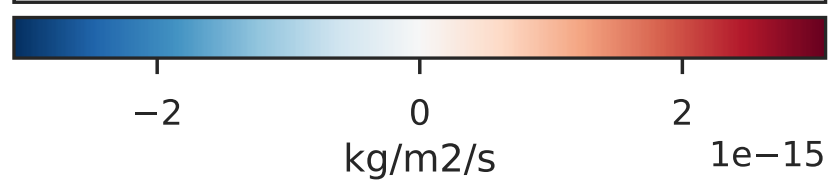
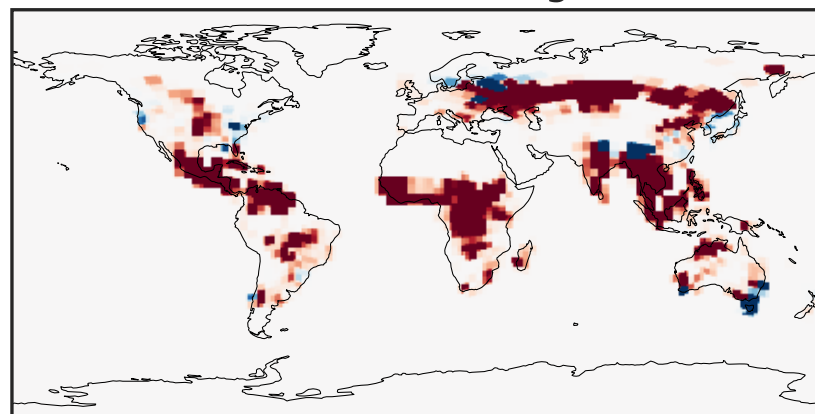
GCHP\_14.2.0 (Dev)  
c24



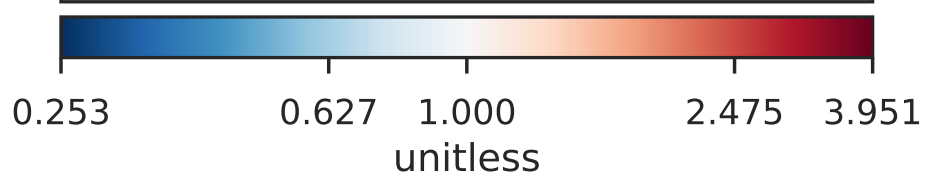
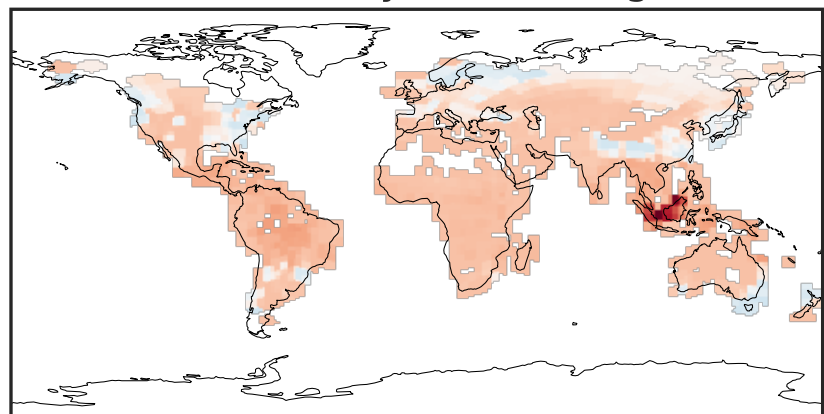
Difference (1x1.25)  
Dev - Ref, Dynamic Range



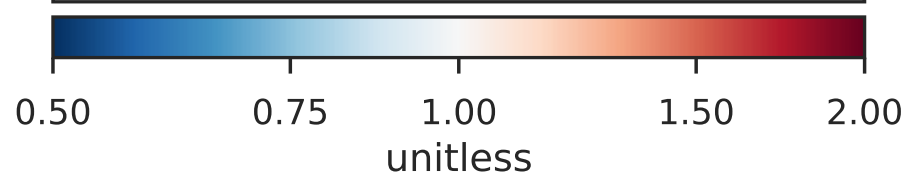
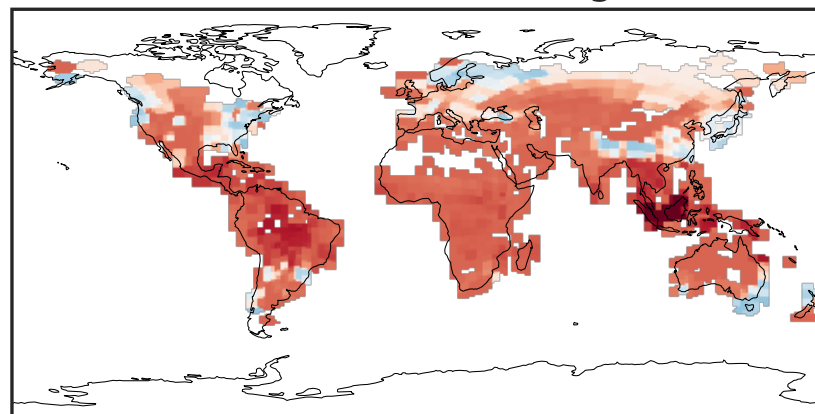
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

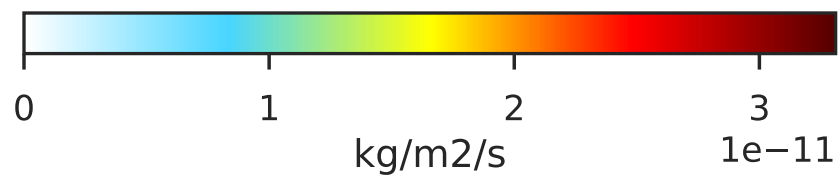
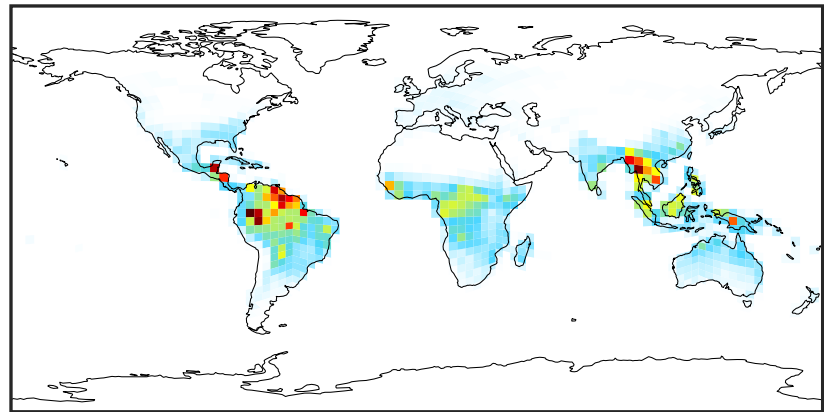


Ratio (1x1.25)  
Dev/Ref, Fixed Range

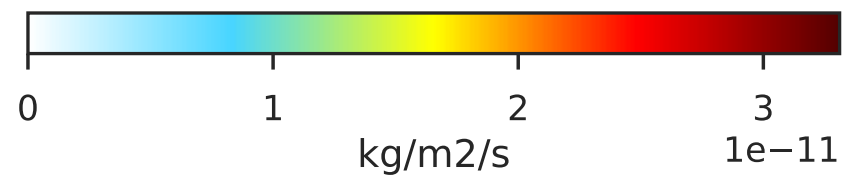
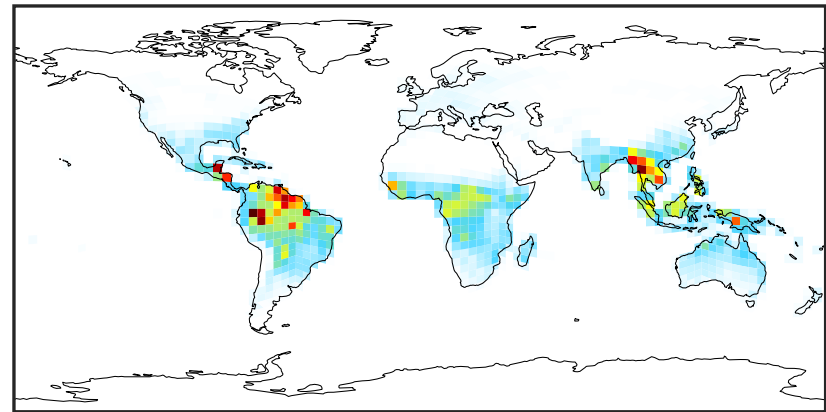


# EmisEOH\_Biogenic (Apr2019)

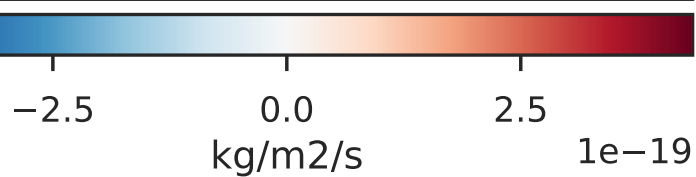
GCHP\_14.0.0 (Ref)  
c24



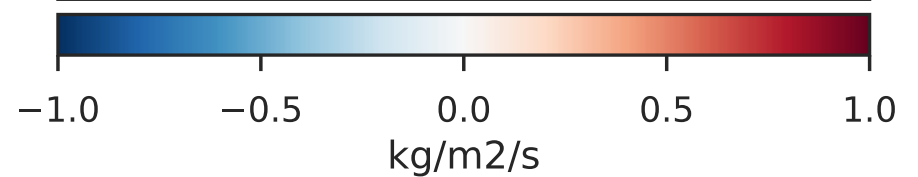
GCHP\_14.2.0 (Dev)  
c24



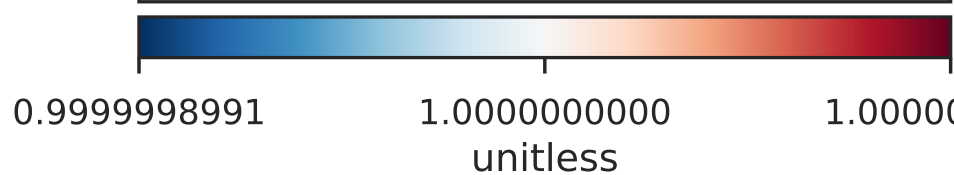
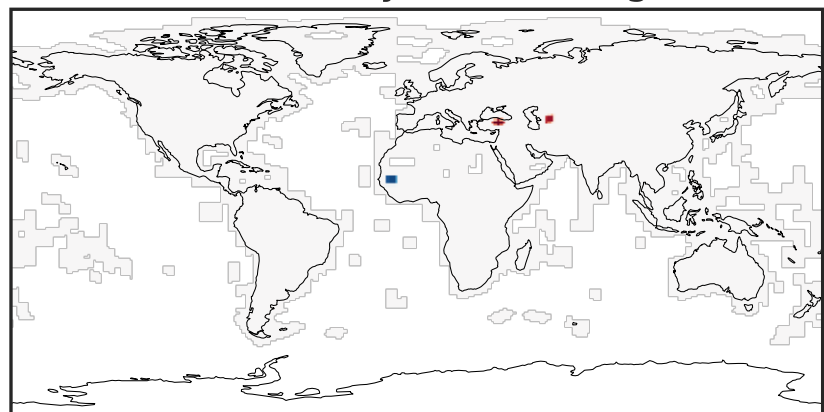
Difference (1x1.25)  
Dev - Ref, Dynamic Range



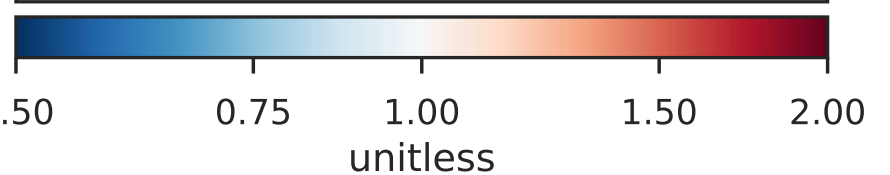
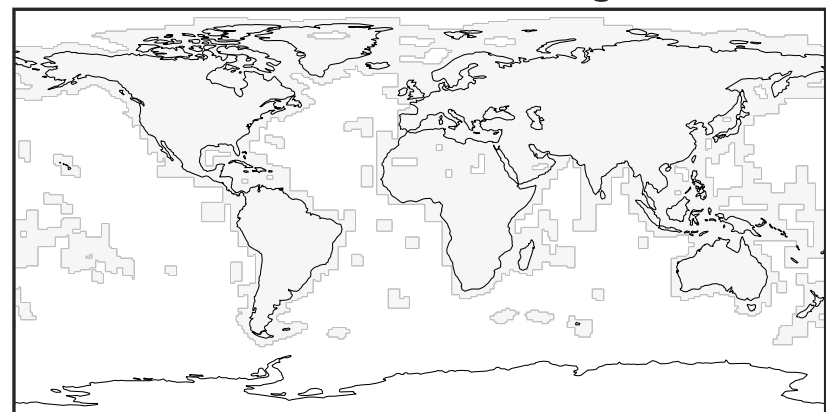
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

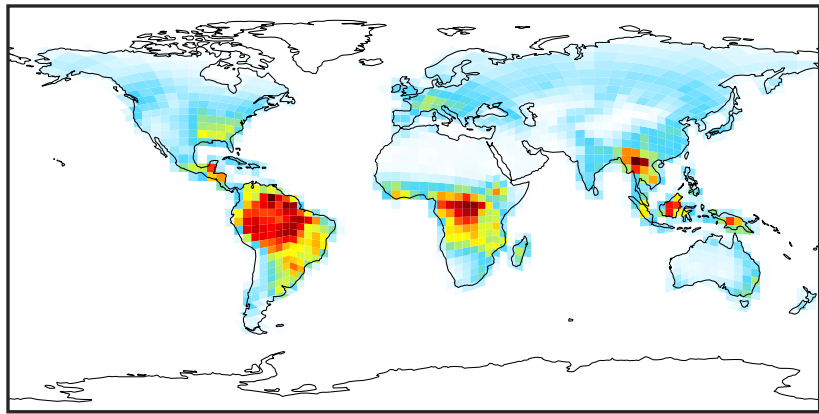


Ratio (1x1.25)  
Dev/Ref, Fixed Range



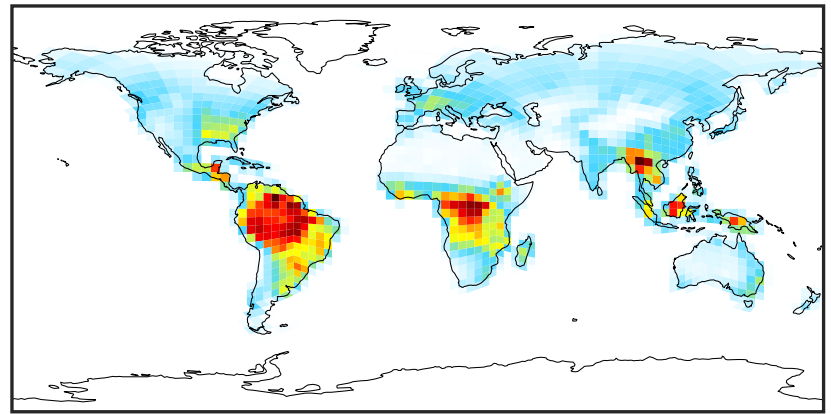
# EmisEOH\_PlantDecay (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

GCHP\_14.2.0 (Dev)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

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



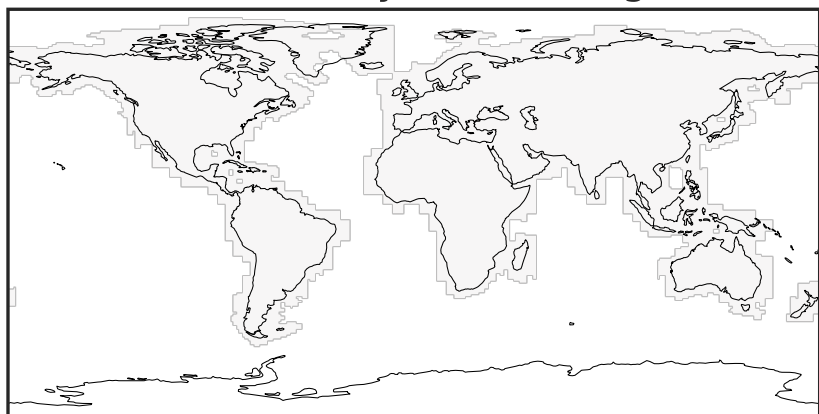
Zero throughout domain  
kg/m<sup>2</sup>/s

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



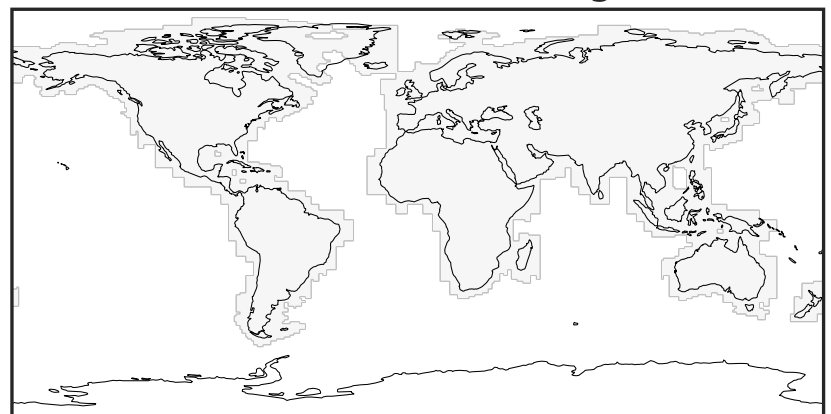
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

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

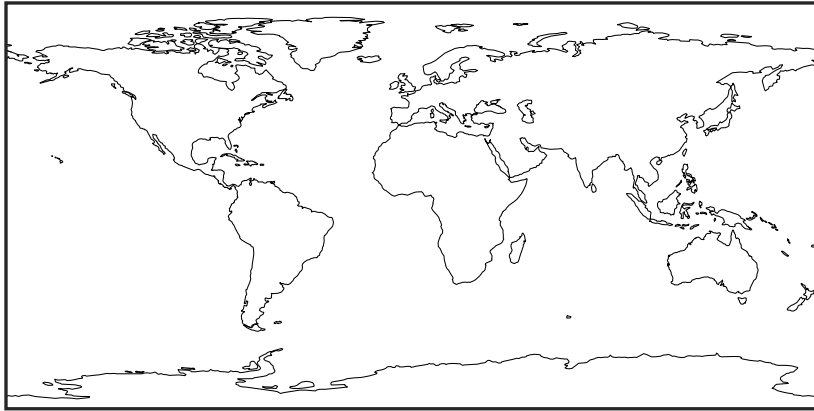


Ref and Dev equal throughout domain  
unitless



# EmisEOH\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



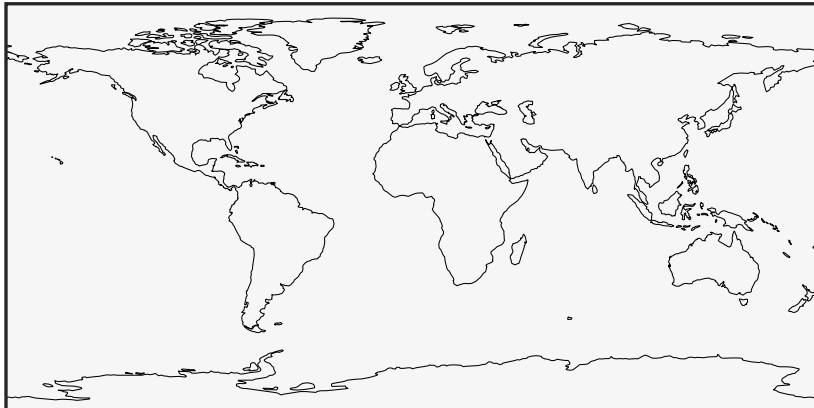
Zero throughput domain  
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



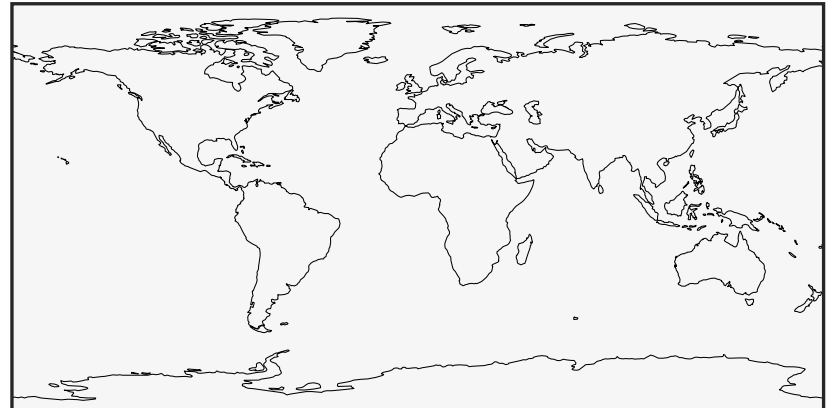
Zero throughput domain  
kg/m<sup>2</sup>/s

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



Zero throughput domain  
kg/m<sup>2</sup>/s

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



Zero throughput domain  
kg/m<sup>2</sup>/s

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



Undefined throughput domain  
unitless

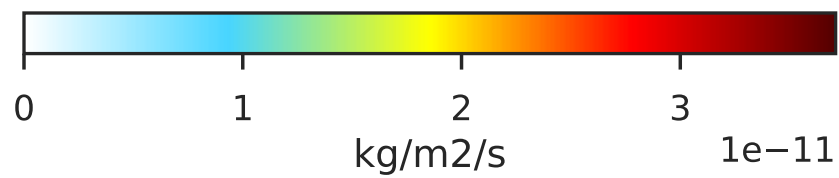
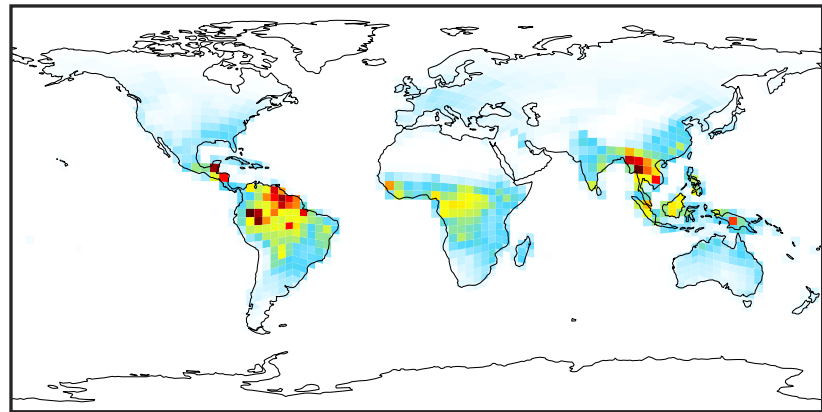
Ratio (1x1.25)  
Dev/Ref, Fixed Range



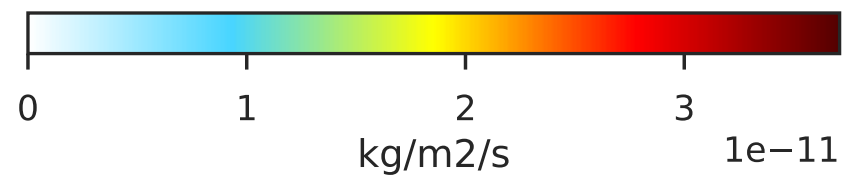
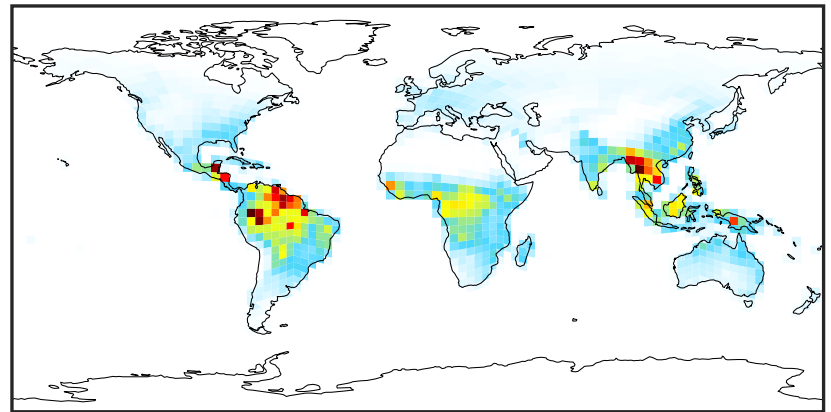
Undefined throughput domain  
unitless

# EmisEOH\_Total (Apr2019)

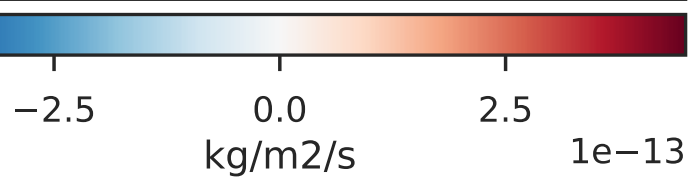
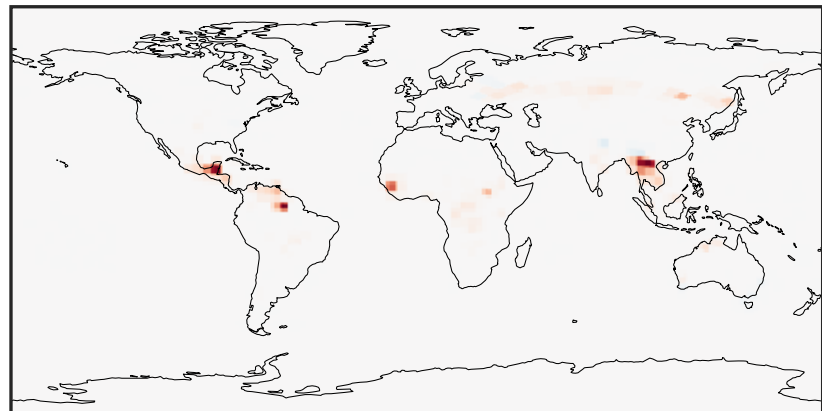
GCHP\_14.0.0 (Ref)  
c24



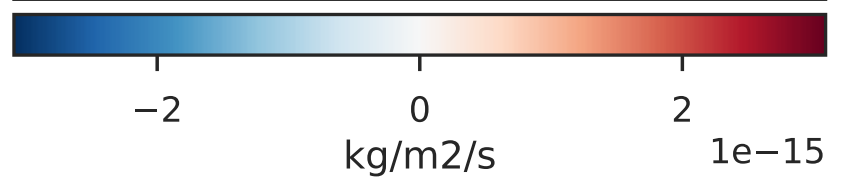
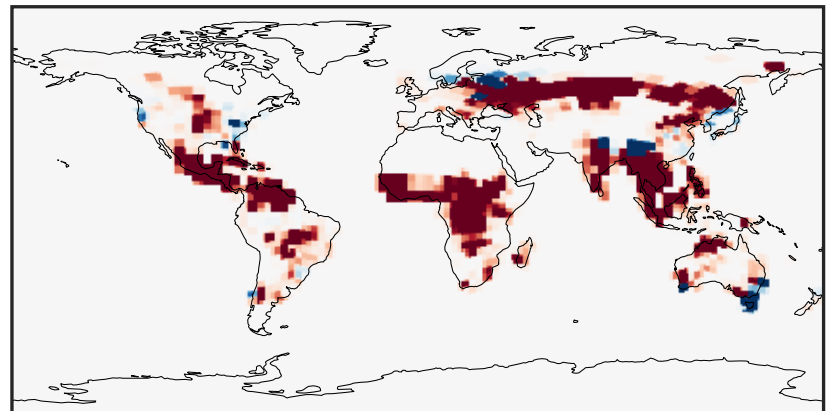
GCHP\_14.2.0 (Dev)  
c24



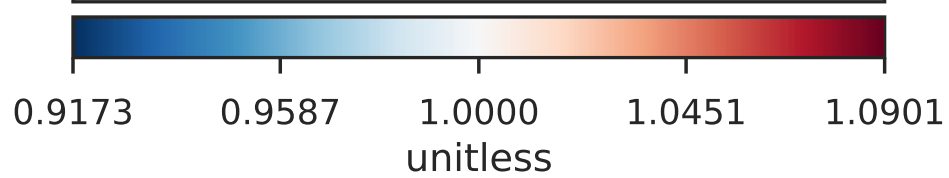
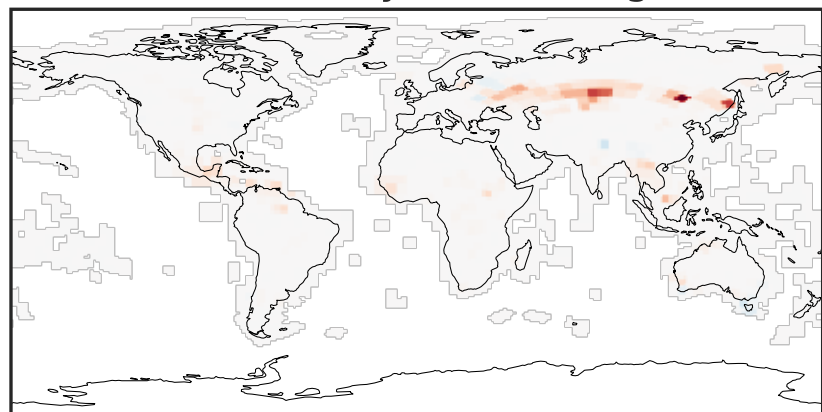
Difference (1x1.25)  
Dev - Ref, Dynamic Range



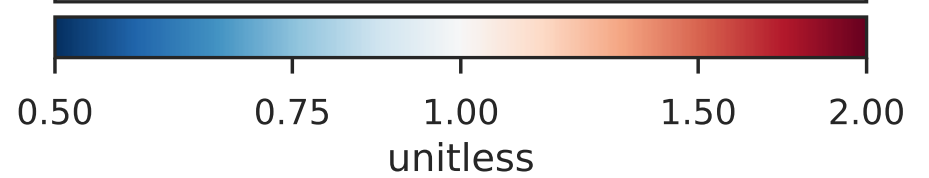
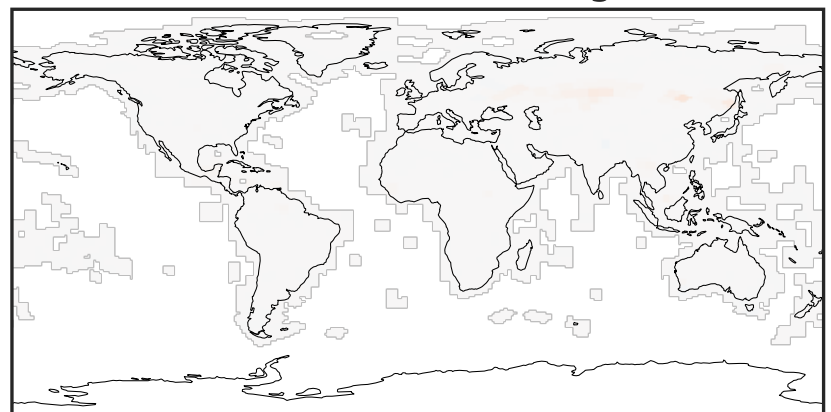
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

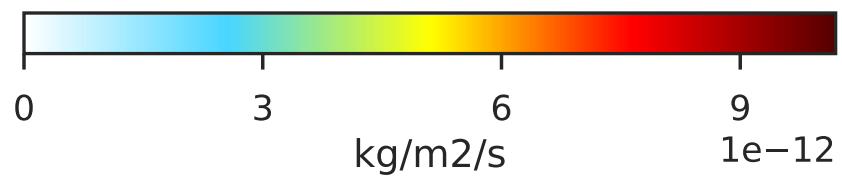
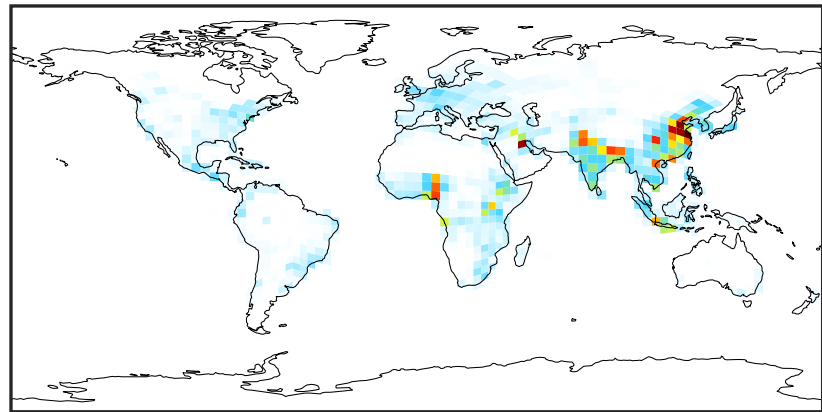


Ratio (1x1.25)  
Dev/Ref, Fixed Range

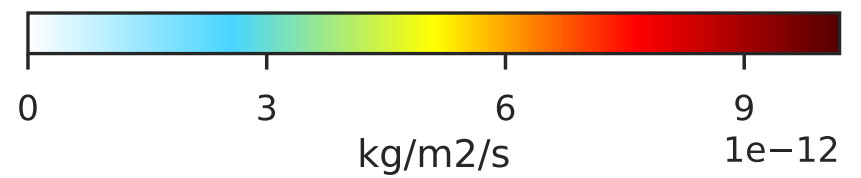
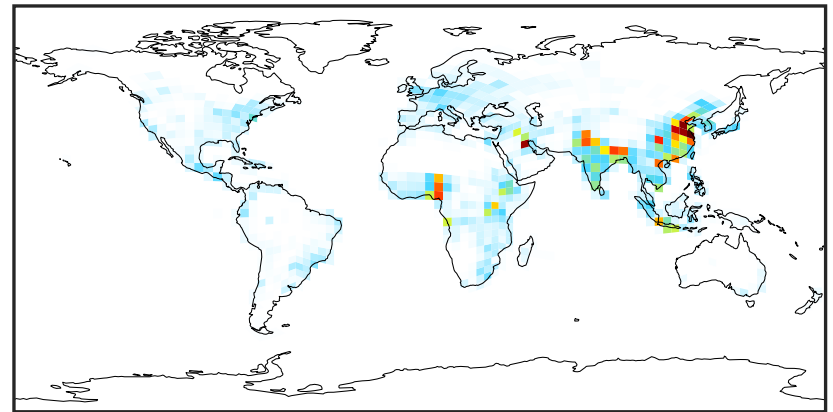


# EmisMOH\_Anthro (Apr2019)

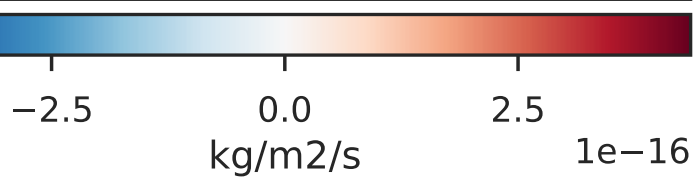
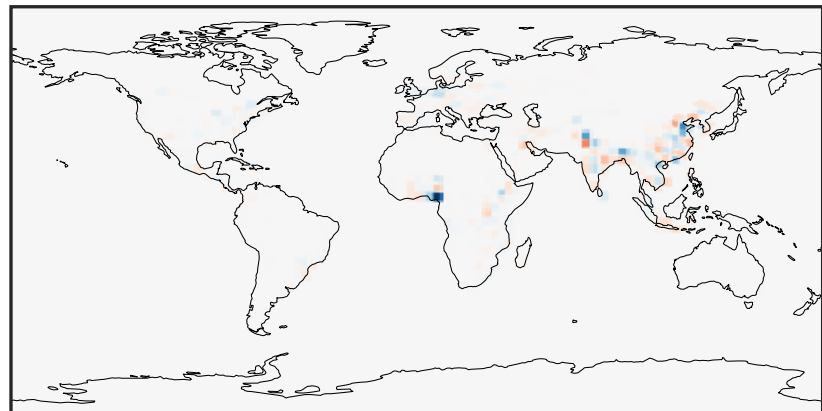
GCHP\_14.0.0 (Ref)  
c24



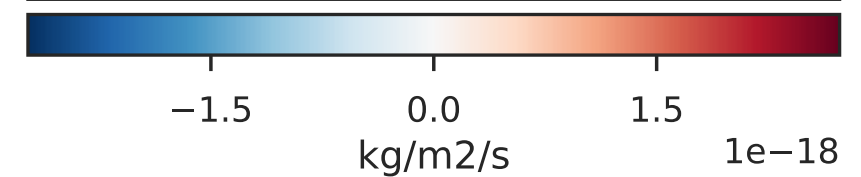
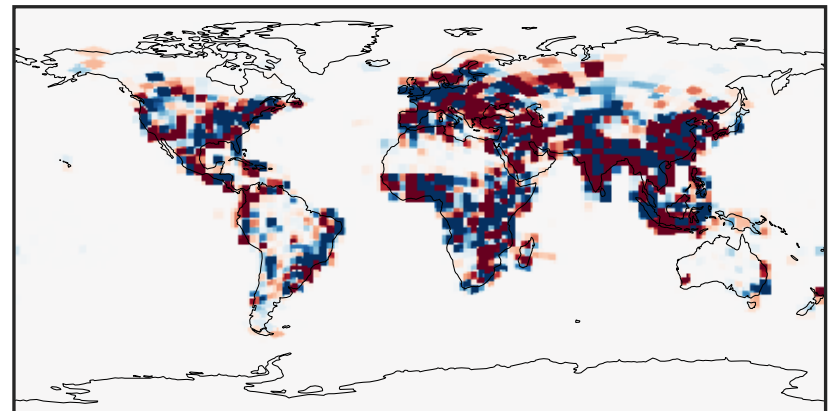
GCHP\_14.2.0 (Dev)  
c24



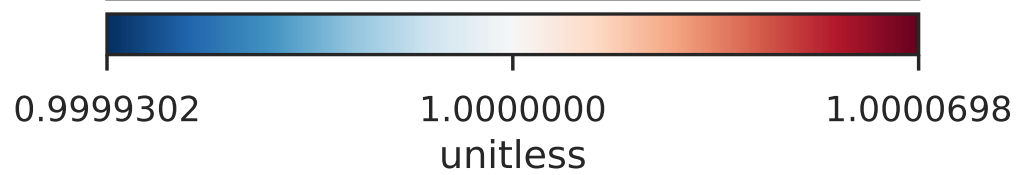
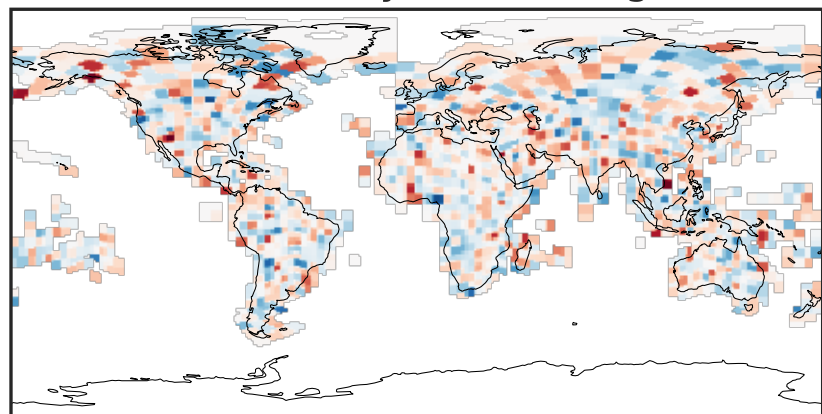
Difference (1x1.25)  
Dev - Ref, Dynamic Range



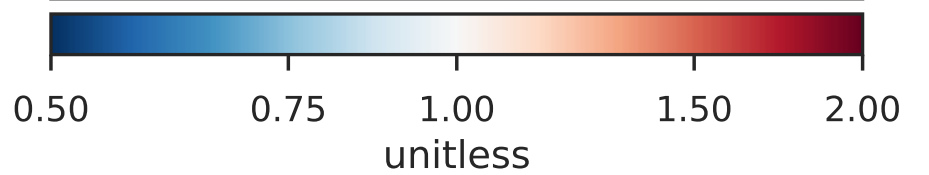
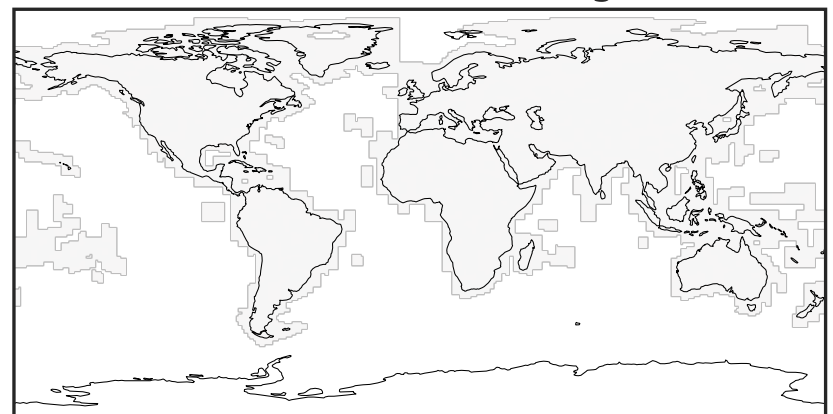
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

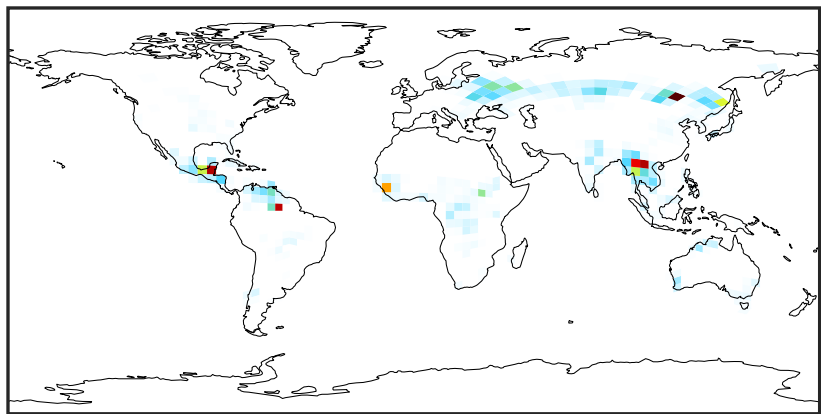


Ratio (1x1.25)  
Dev/Ref, Fixed Range



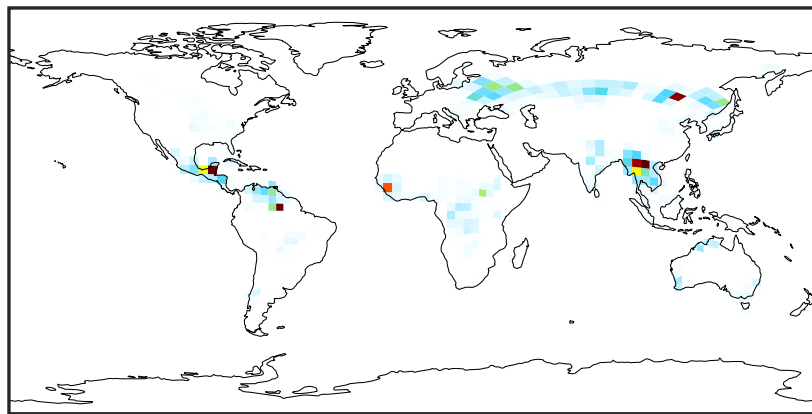
# EmisMOH\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



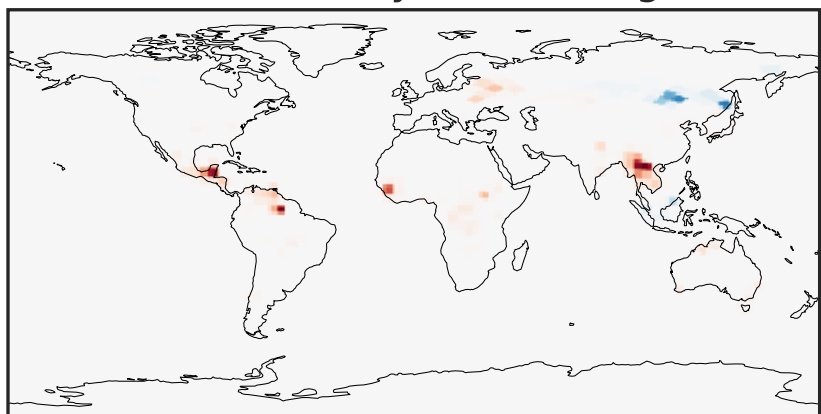
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



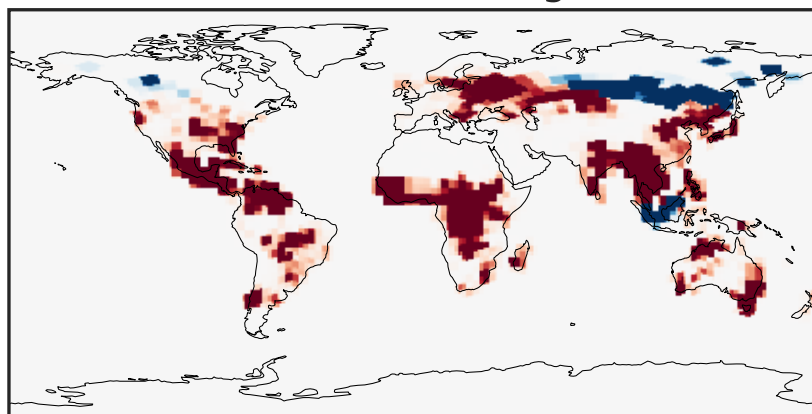
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

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



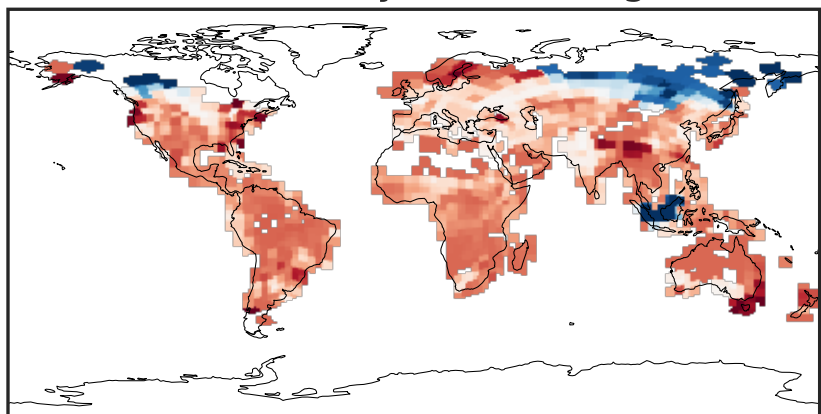
-3 0 3  
kg/m<sup>2</sup>/s 1e-12

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



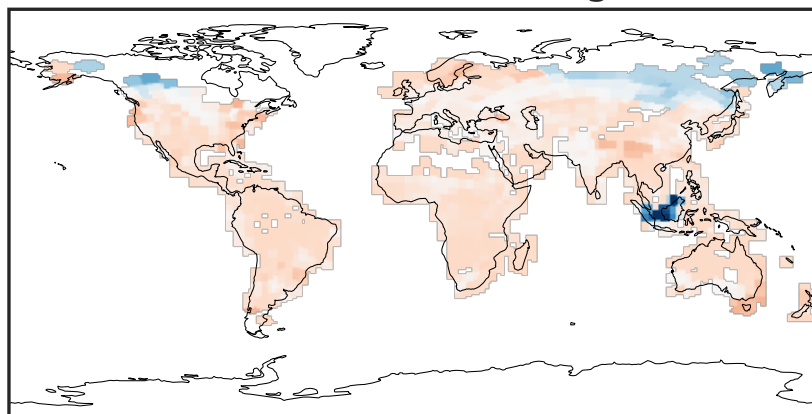
-2 0 2  
kg/m<sup>2</sup>/s 1e-14

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



0.7909 0.8954 1.0000 1.1322 1.2644  
unitless

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

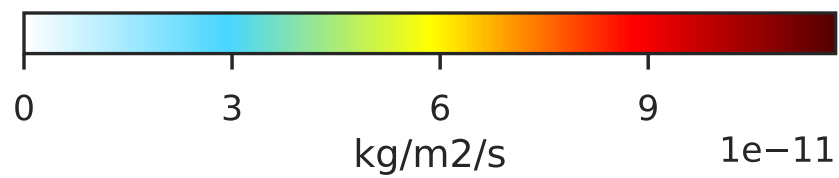
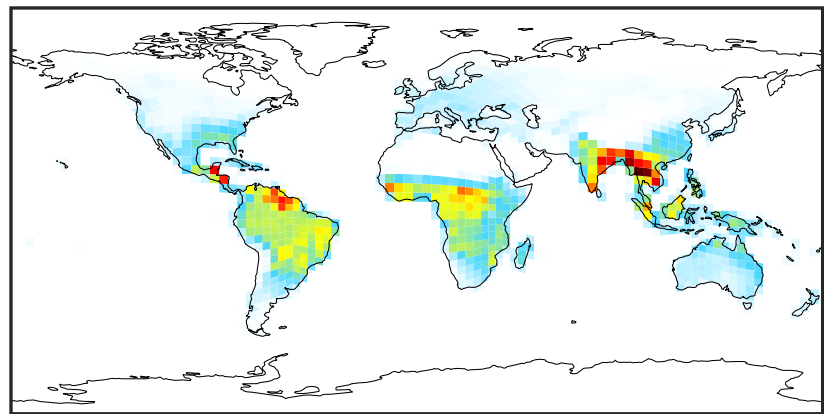


0.50 0.75 1.00 1.50 2.00  
unitless

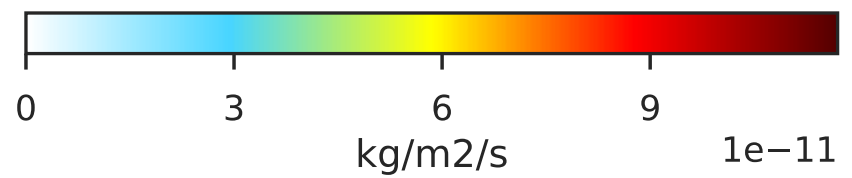
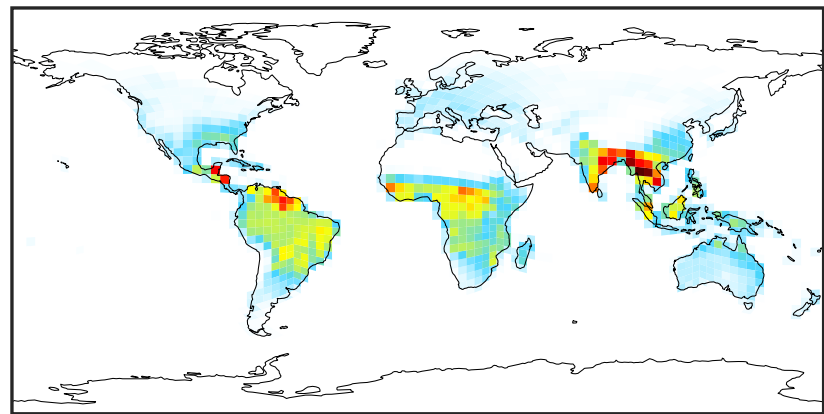


# EmisMOH\_Biogenic (Apr2019)

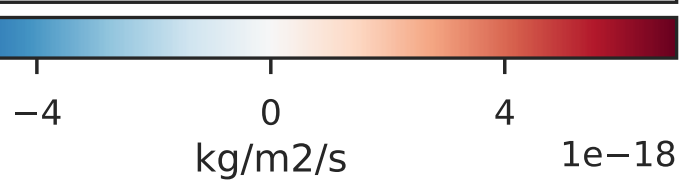
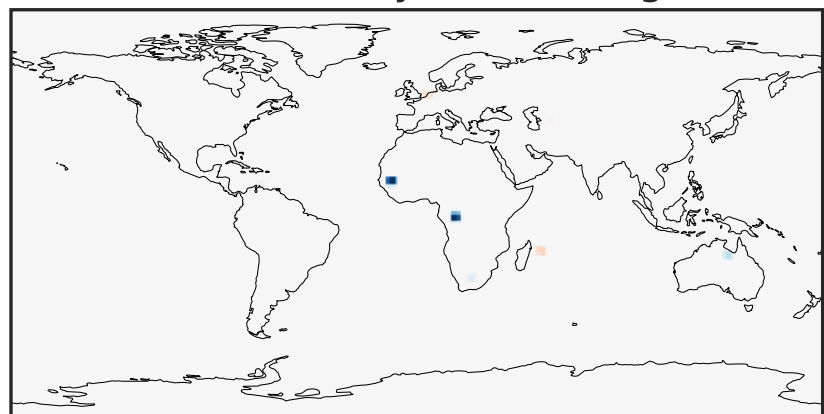
GCHP\_14.0.0 (Ref)  
c24



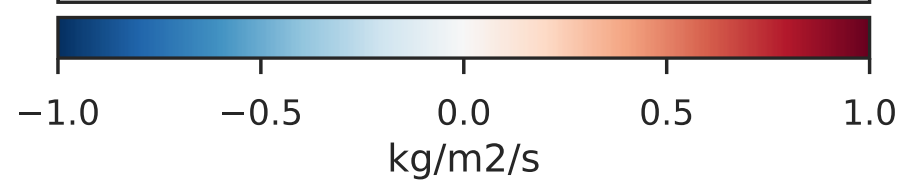
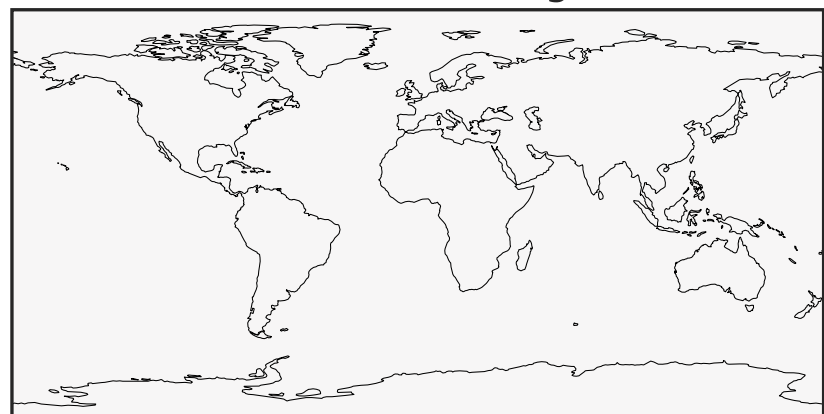
GCHP\_14.2.0 (Dev)  
c24



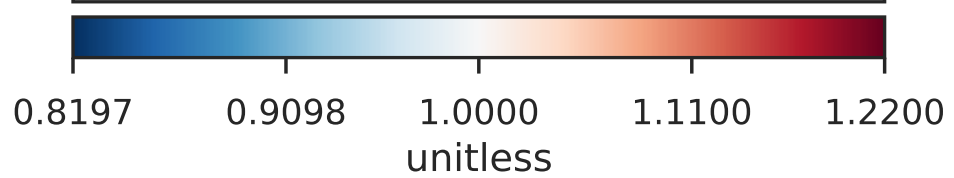
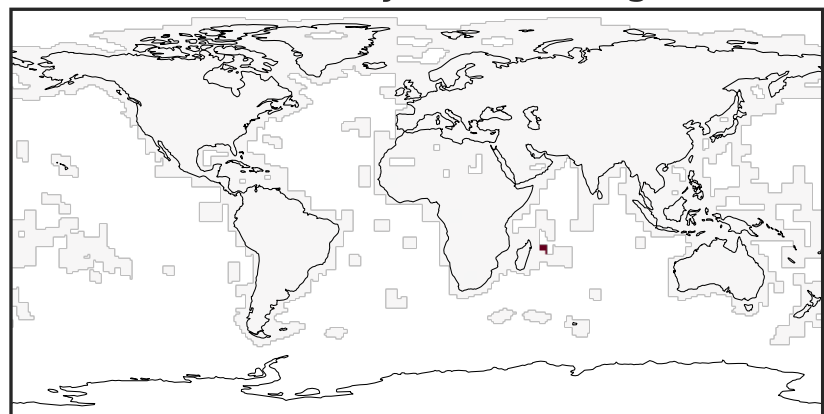
Difference (1x1.25)  
Dev - Ref, Dynamic Range



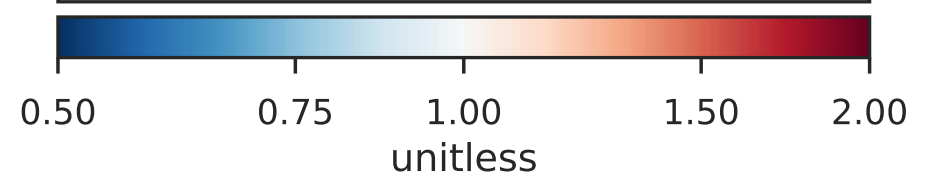
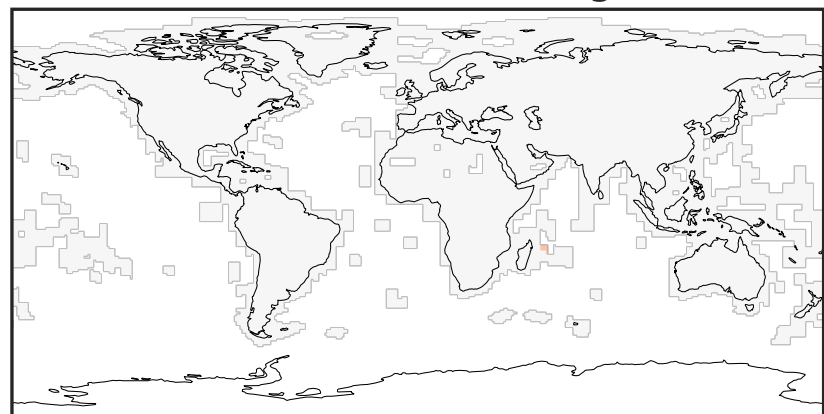
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

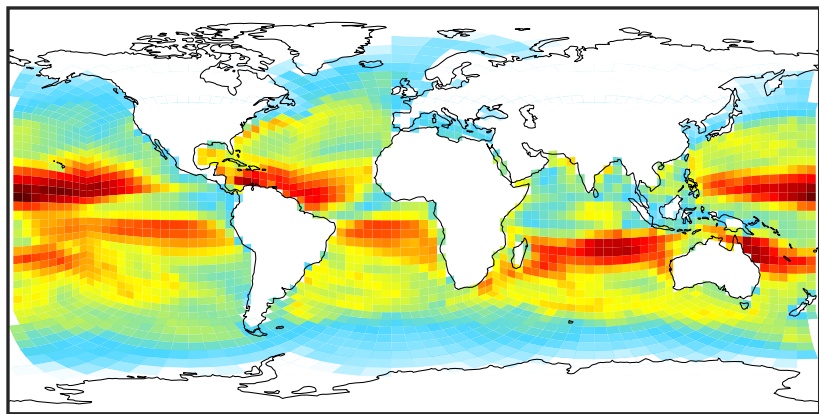


Ratio (1x1.25)  
Dev/Ref, Fixed Range



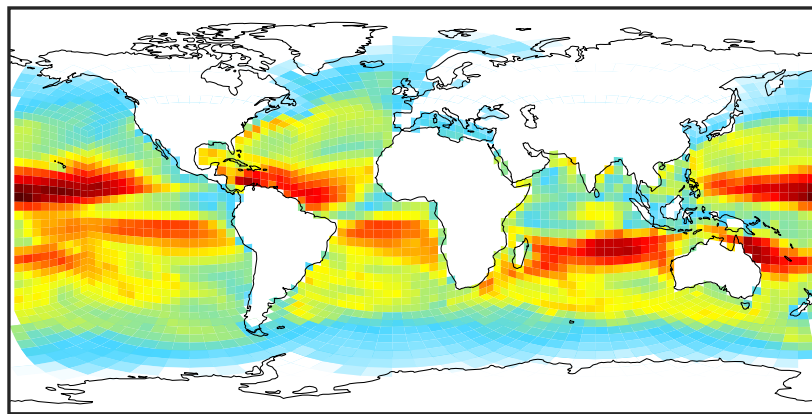
# EmisMOH\_Ocean (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



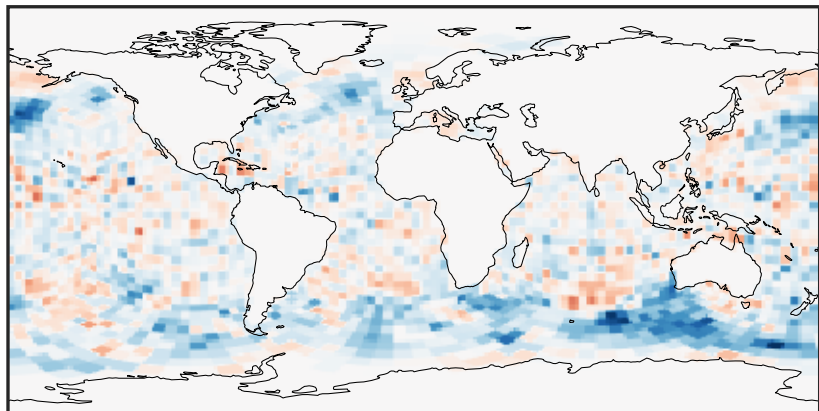
0.0 2.5 5.0 7.5  
kg/m<sup>2</sup>/s 1e-13

GCHP\_14.2.0 (Dev)  
c24



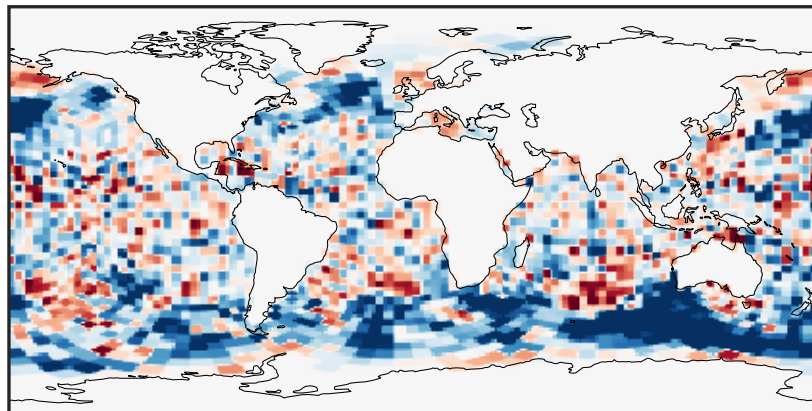
0.0 2.5 5.0 7.5  
kg/m<sup>2</sup>/s 1e-13

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



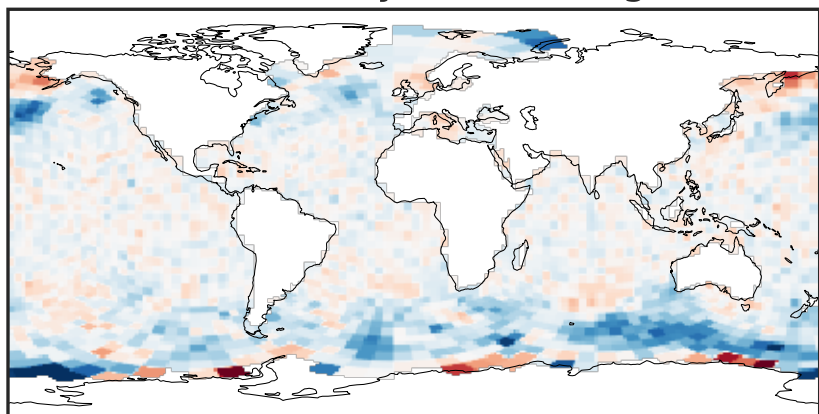
-1.5 0.0 1.5  
kg/m<sup>2</sup>/s 1e-18

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



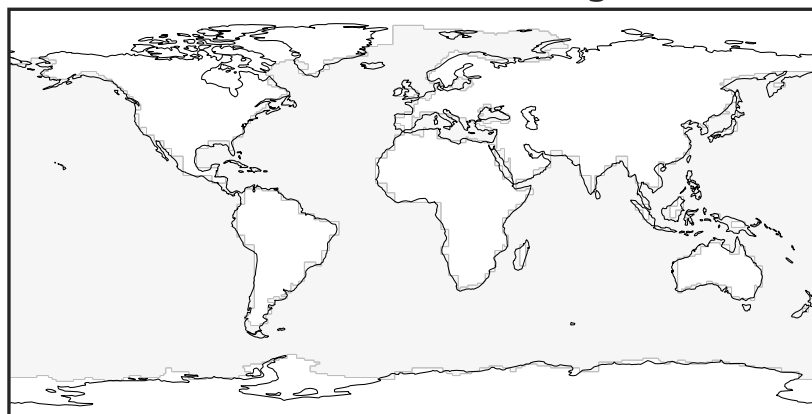
-4 0 4  
kg/m<sup>2</sup>/s 1e-19

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



0.99999054 1.0000000 1.00000946  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless

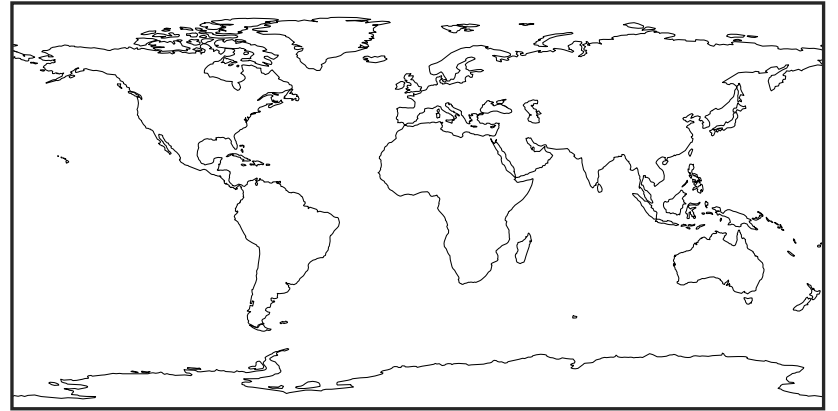
# EmisMOH\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



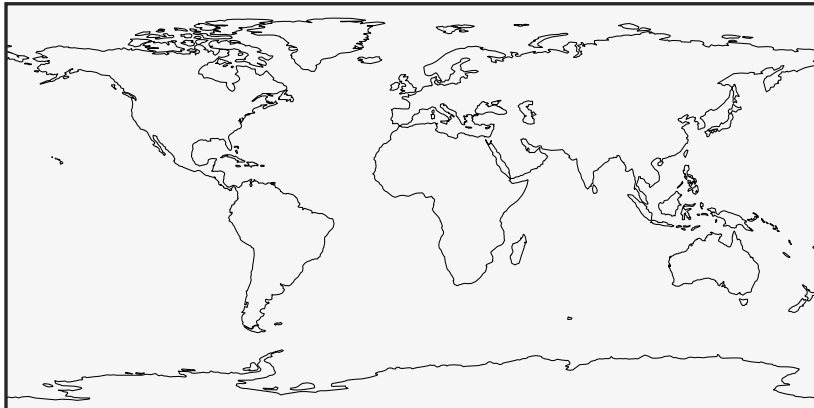
Zero throughput domain  
kg/m2/s

GCHP\_14.2.0 (Dev)  
c24



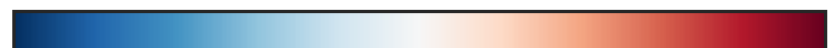
Zero throughput domain  
kg/m2/s

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



Zero throughput domain  
kg/m2/s

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



Zero throughput domain  
kg/m2/s

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



Undefined throughput domain  
unitless

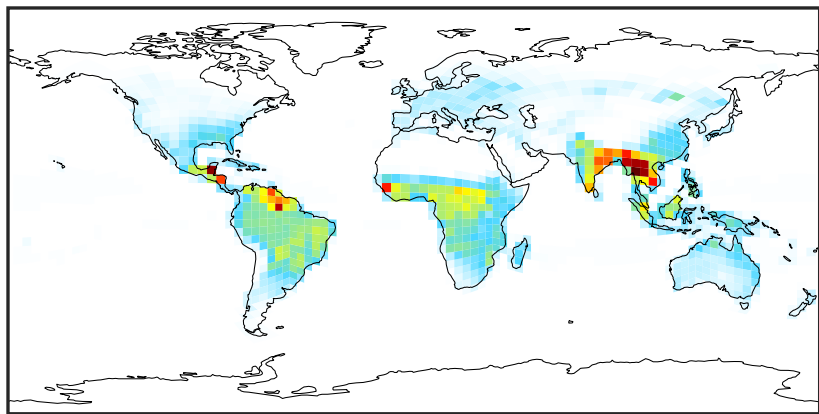
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Undefined throughput domain  
unitless

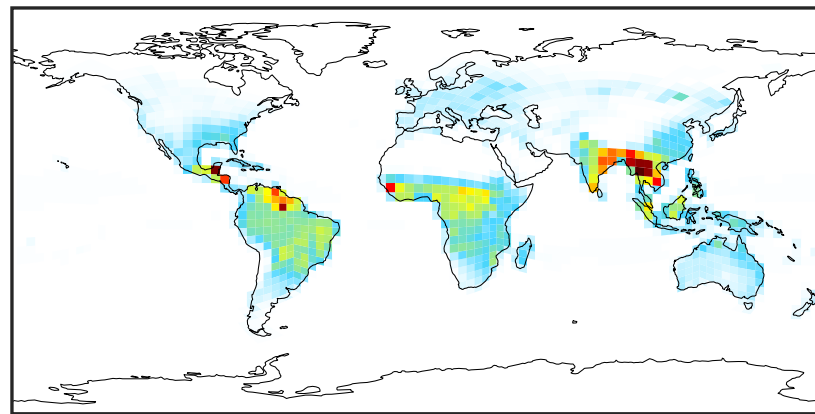
# EmisMOH\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



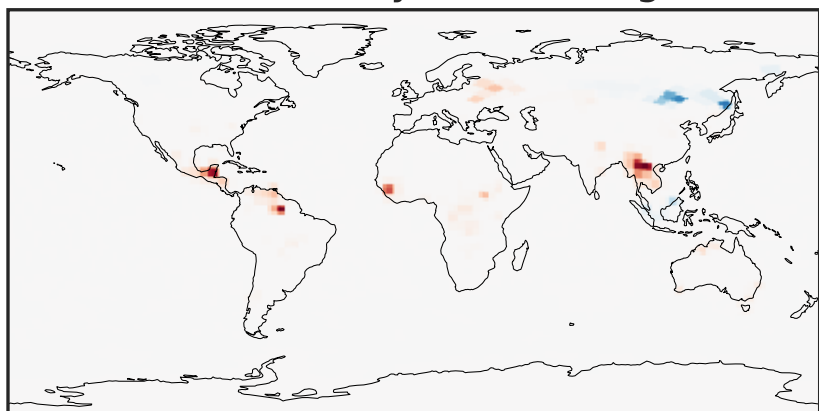
0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-10

GCHP\_14.2.0 (Dev)  
c24



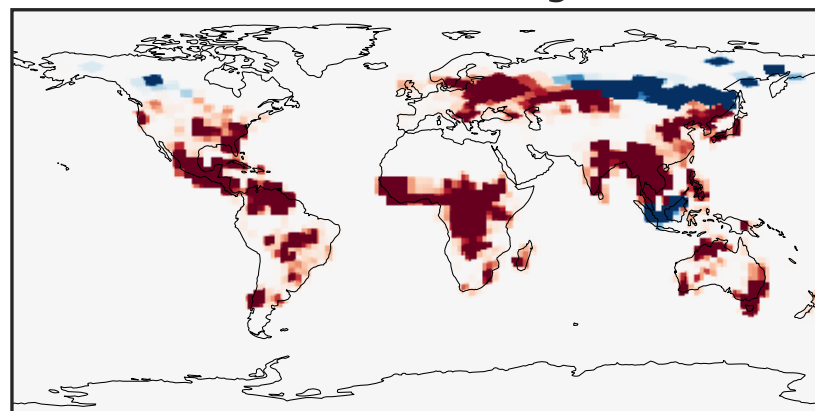
0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-10

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



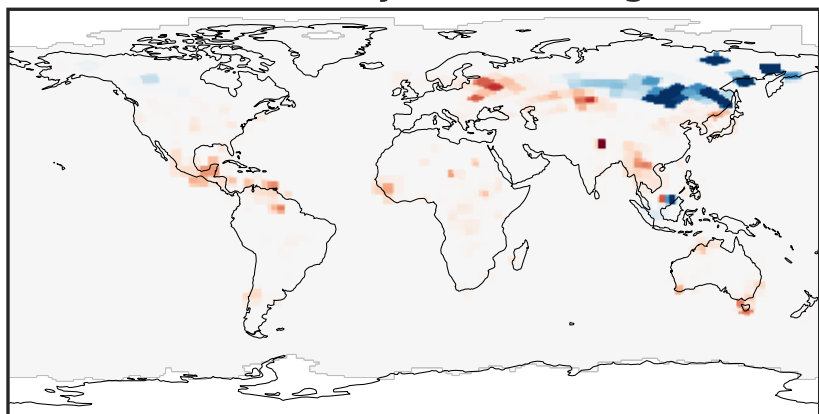
-3 0 3  
kg/m<sup>2</sup>/s 1e-12

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



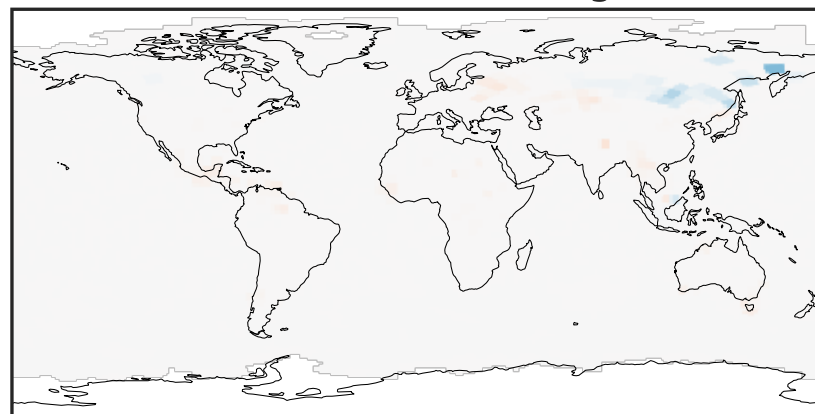
-2 0 2  
kg/m<sup>2</sup>/s 1e-14

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



0.9156 0.9578 1.0000 1.0461 1.0922  
unitless

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

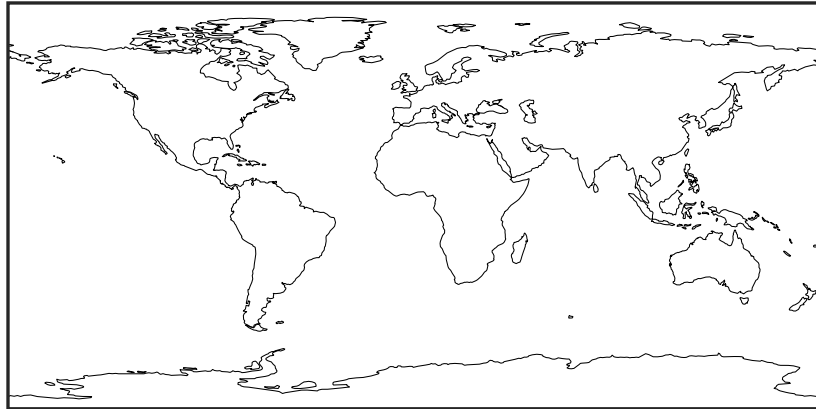


0.50 0.75 1.00 1.50 2.00  
unitless



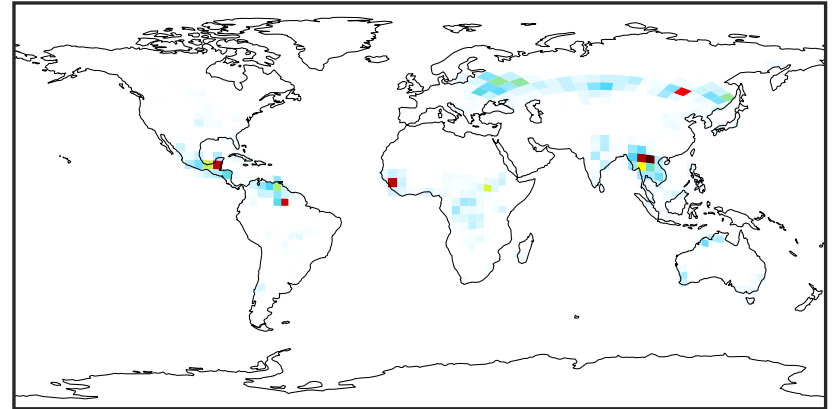
# EmisISOP\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



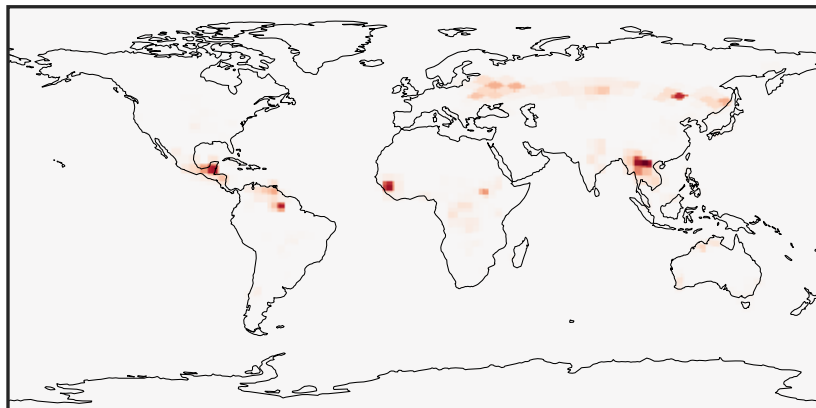
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



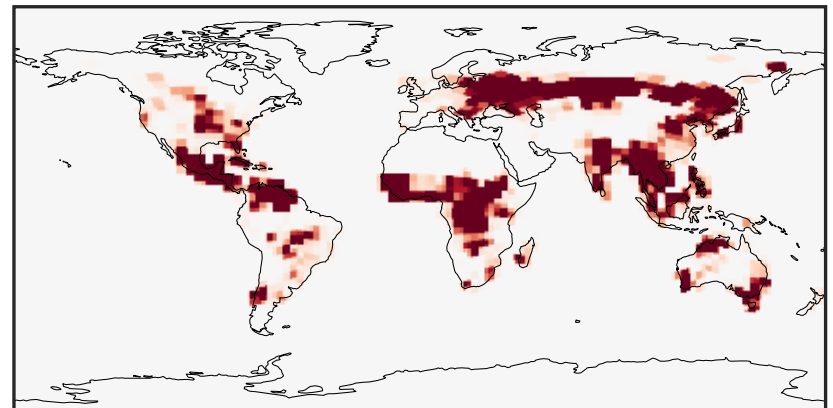
0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-12

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



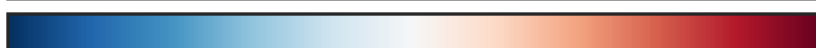
-1.5 0.0 1.5  
kg/m<sup>2</sup>/s 1e-12

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



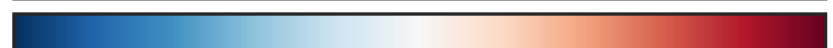
-2 0 2  
kg/m<sup>2</sup>/s 1e-14

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



Undefined throughout domain  
unitless

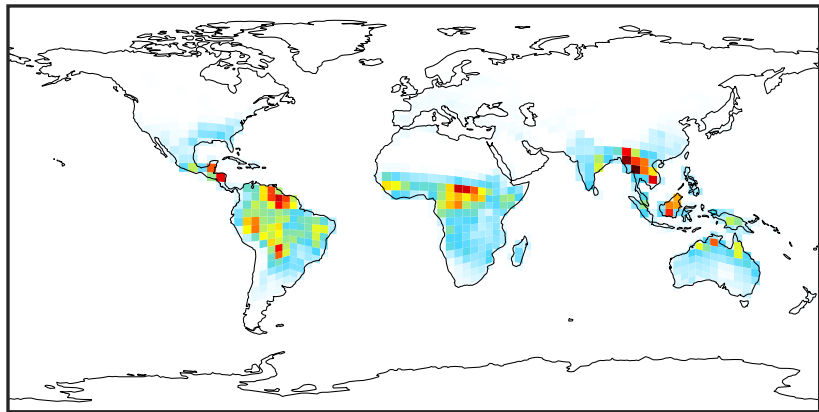
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

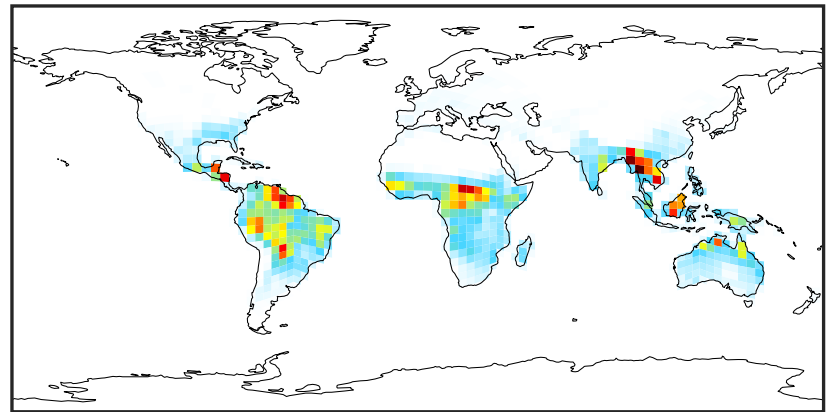
# EmisSOP\_Biogenic (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



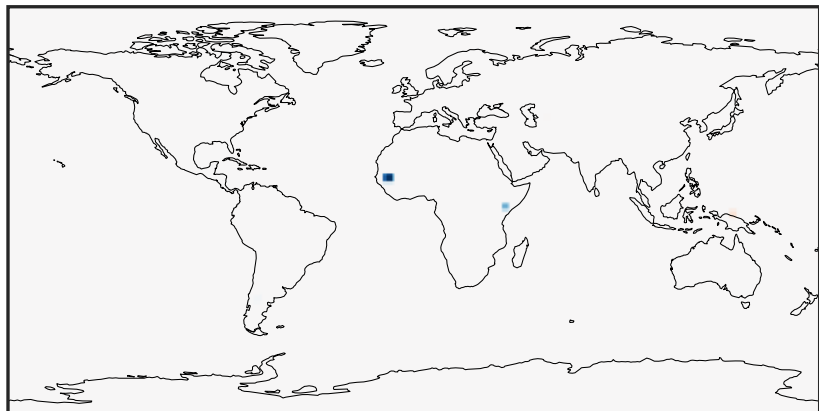
0.0 2.5 5.0 7.5  
kg/m2/s  $1e-10$

GCHP\_14.2.0 (Dev)  
c24



0.0 2.5 5.0 7.5  
kg/m2/s  $1e-10$

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



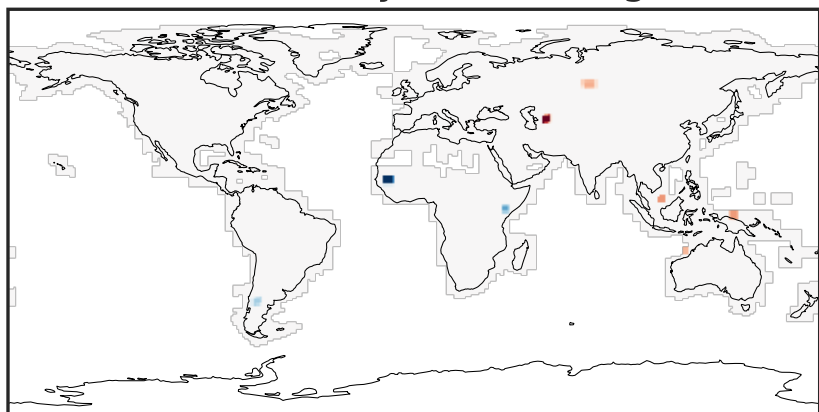
-3 0 3  
kg/m2/s  $1e-17$

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



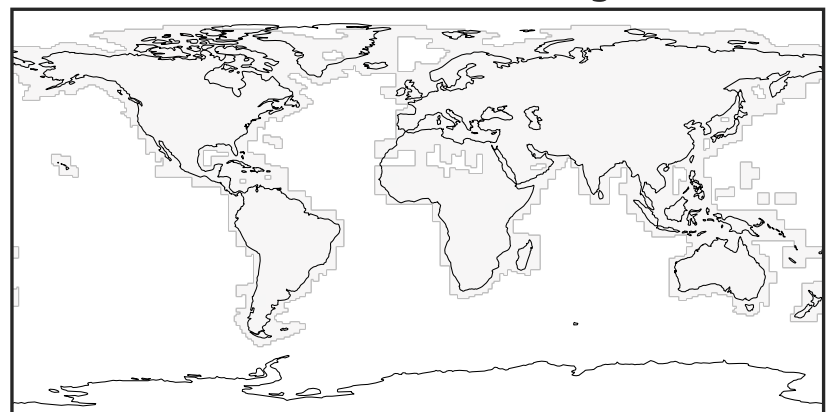
-1.0 -0.5 0.0 0.5 1.0  
kg/m2/s

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



0.999999804 1.000000000 1.000000196  
unitless

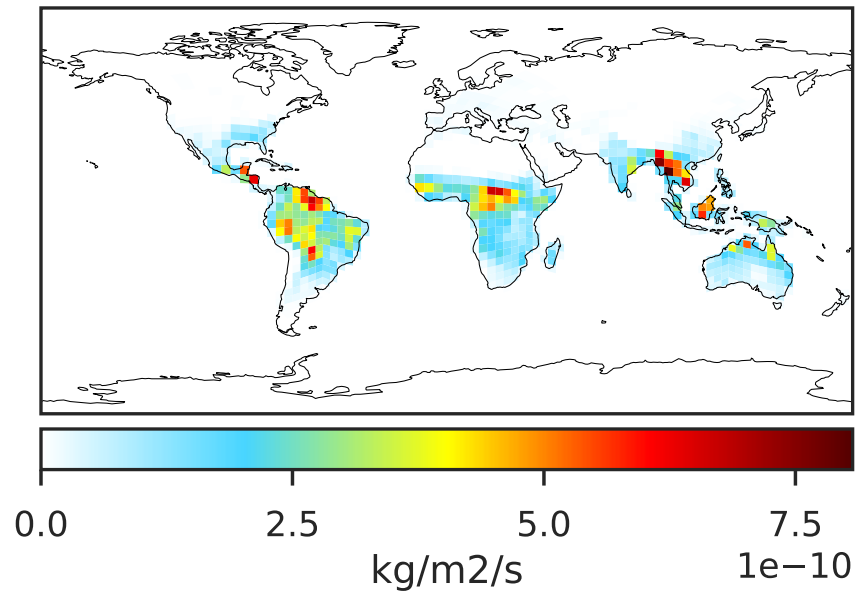
Ratio (1x1.25)  
Dev/Ref, Fixed Range



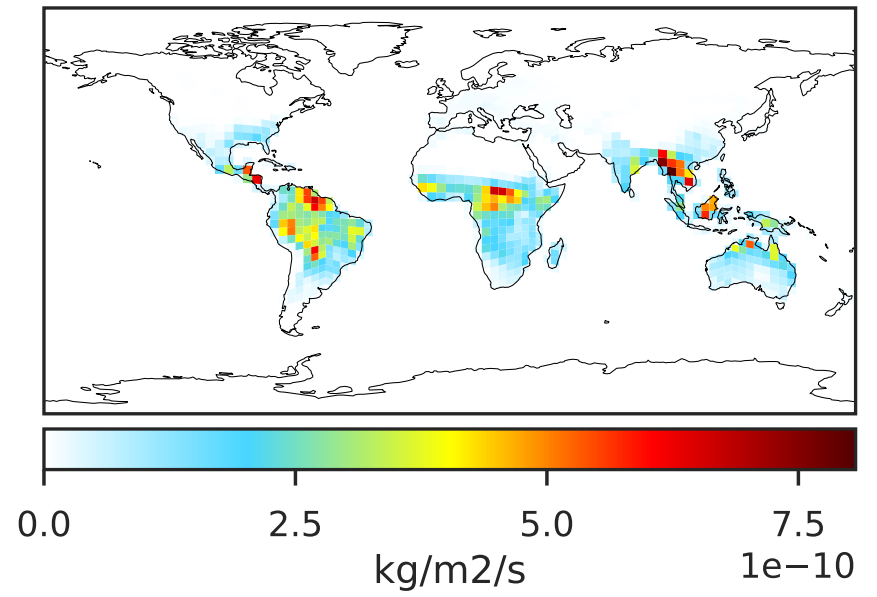
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisISOP\_Total (Apr2019)

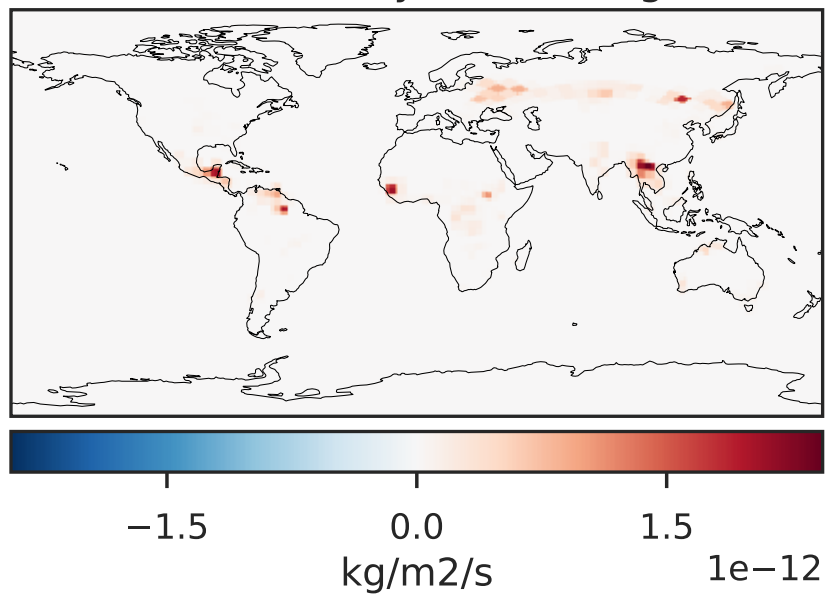
GCHP\_14.0.0 (Ref)  
c24



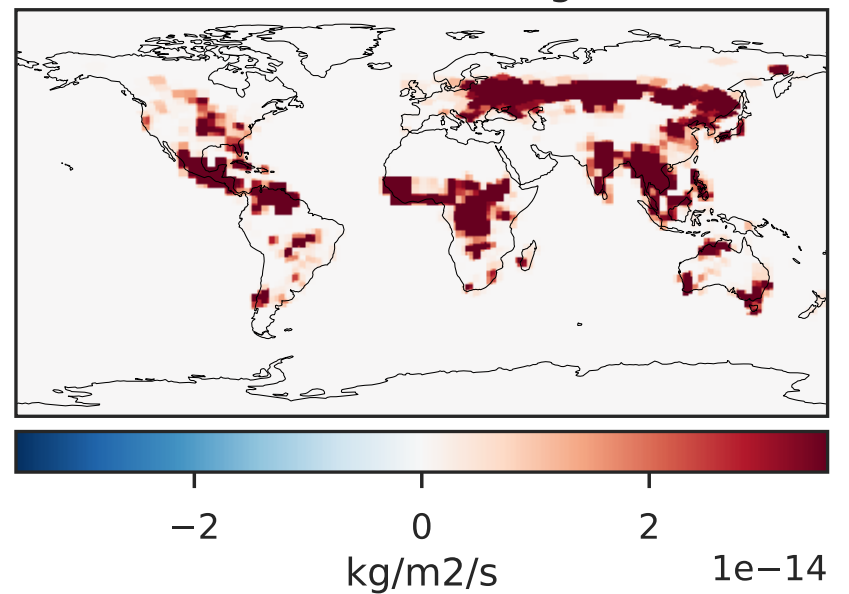
GCHP\_14.2.0 (Dev)  
c24



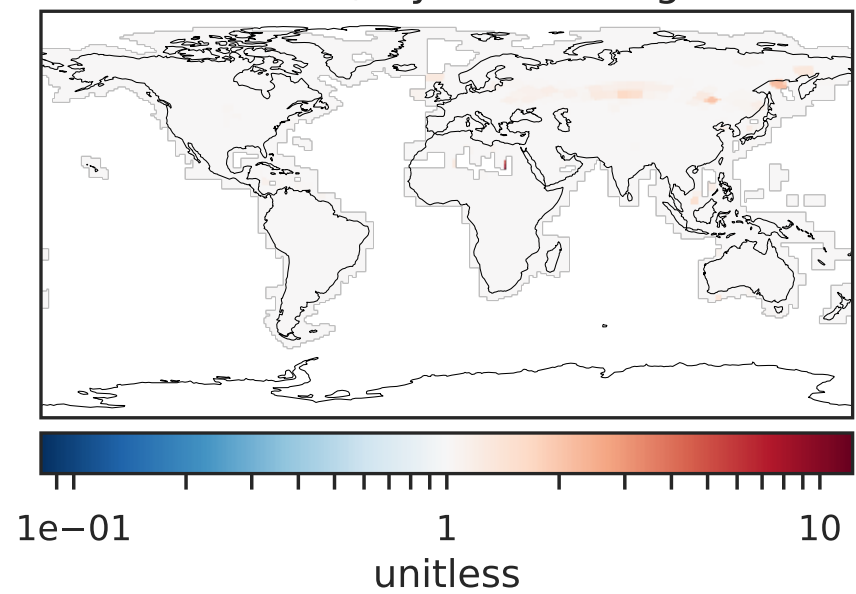
Difference (1x1.25)  
Dev - Ref, Dynamic Range



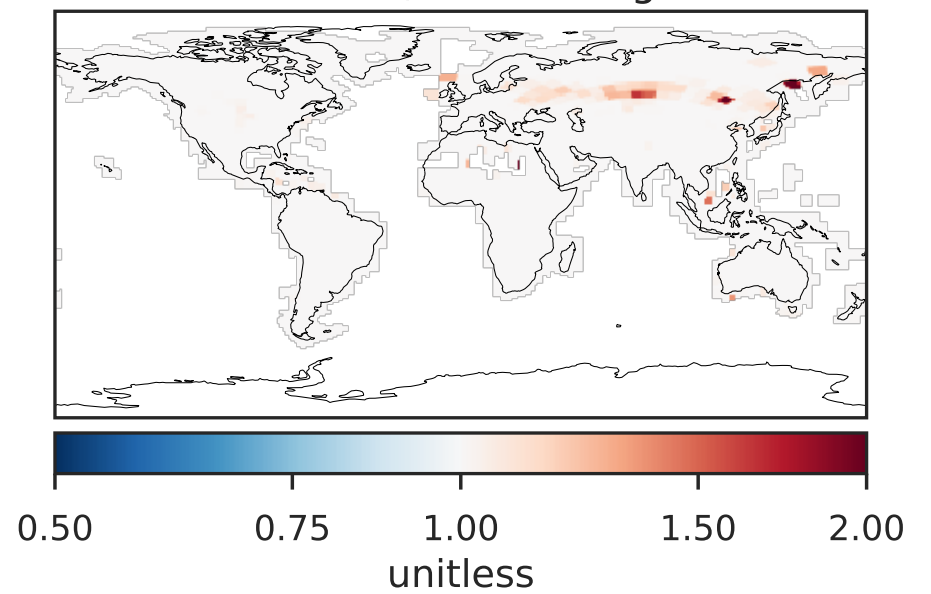
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

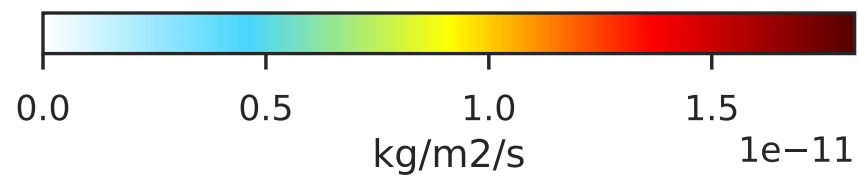
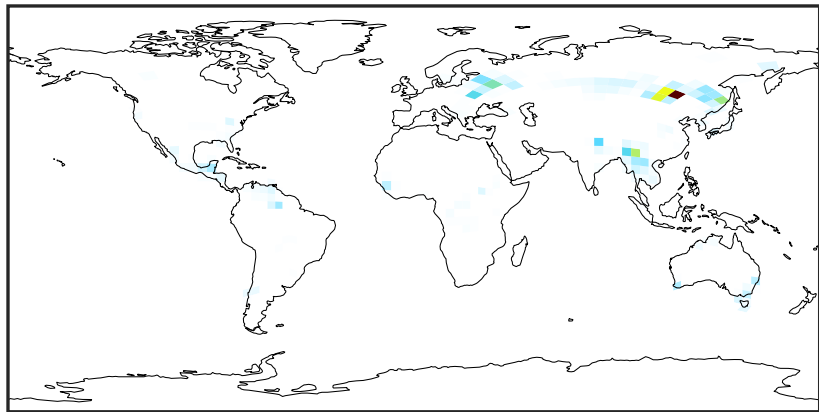


Ratio (1x1.25)  
Dev/Ref, Fixed Range

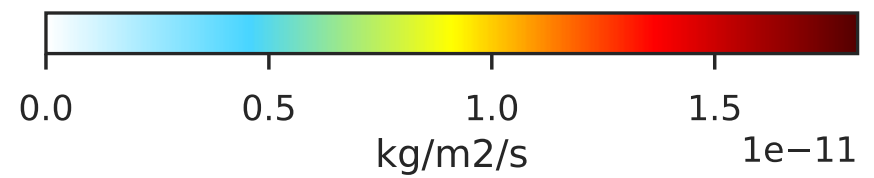
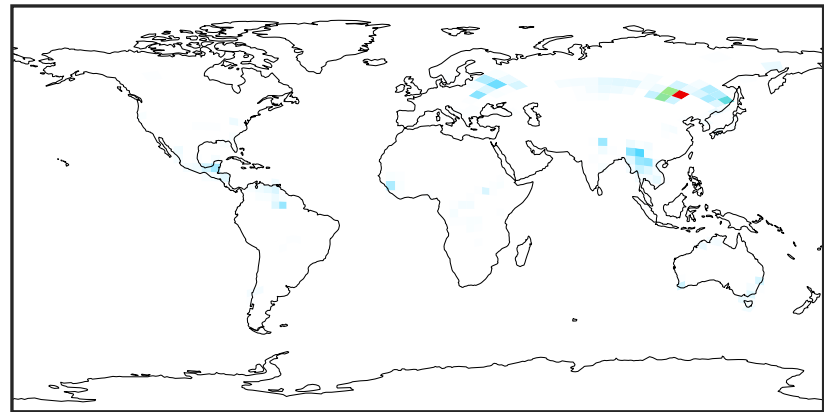


# EmisMTPA\_BioBurn (Apr2019)

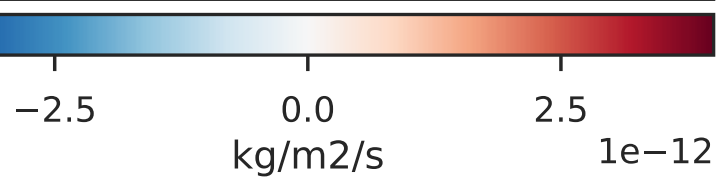
GCHP\_14.0.0 (Ref)  
c24



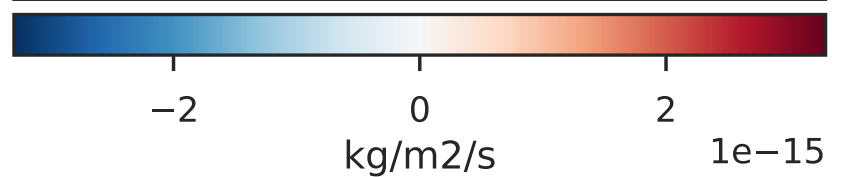
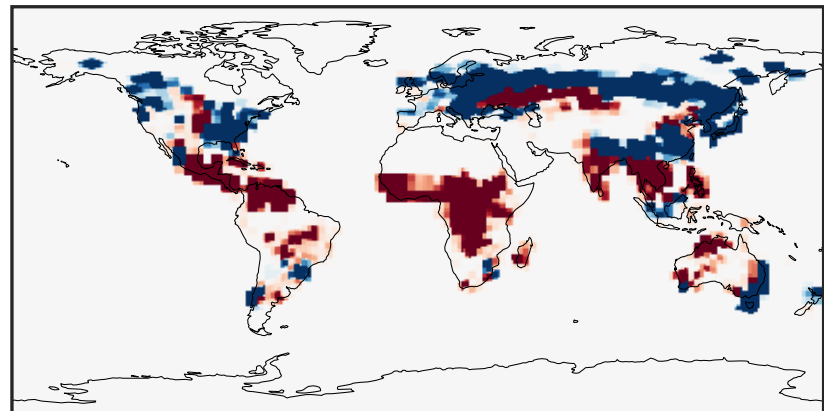
GCHP\_14.2.0 (Dev)  
c24



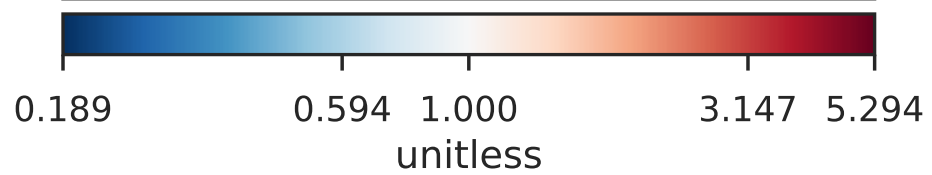
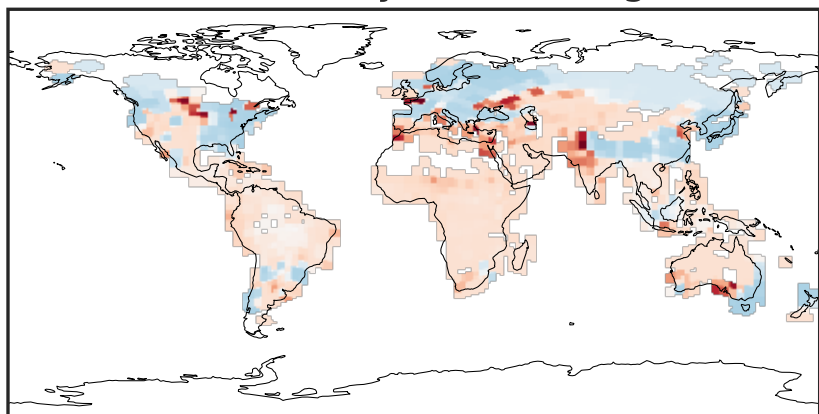
Difference (1x1.25)  
Dev - Ref, Dynamic Range



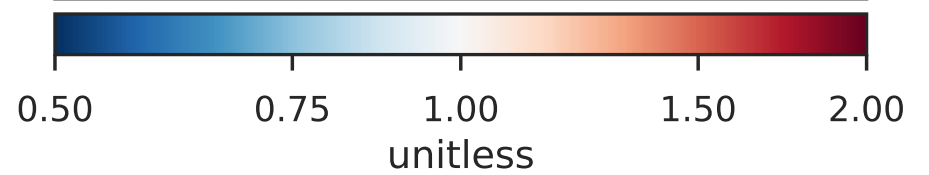
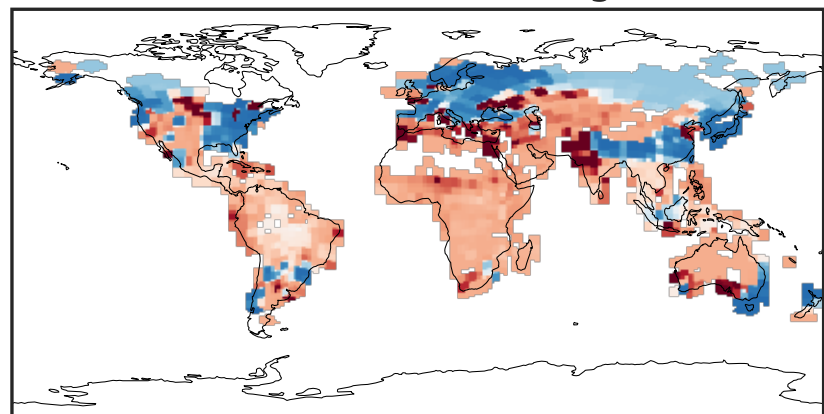
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



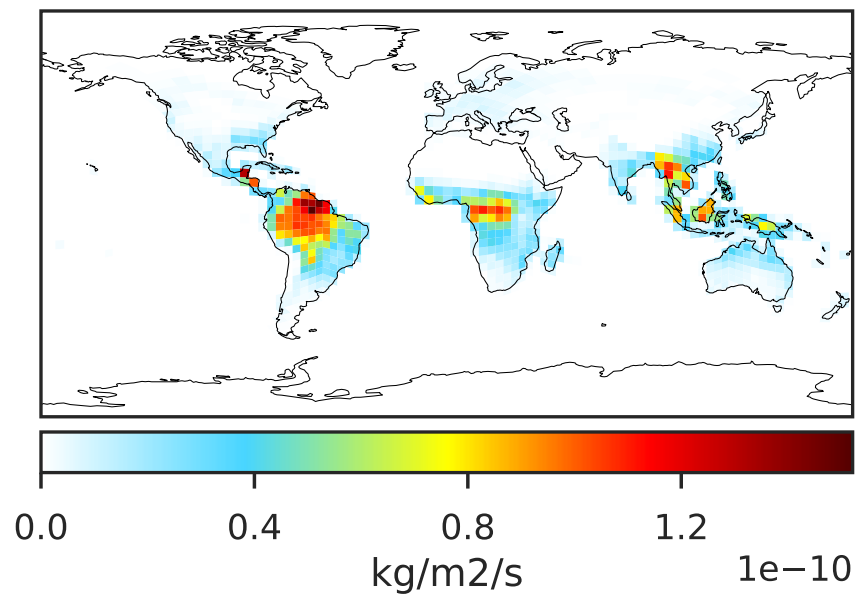
Ratio (1x1.25)  
Dev/Ref, Fixed Range



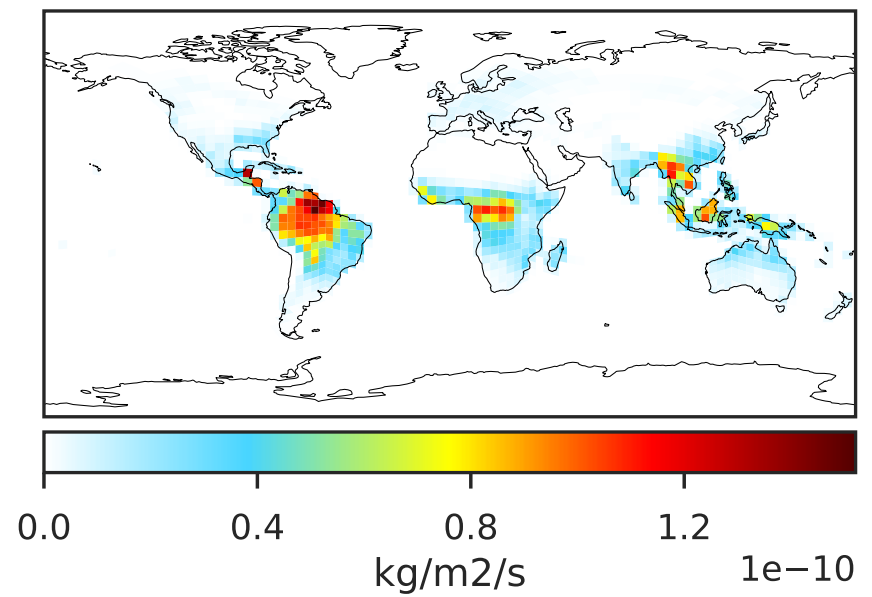


# EmisMTPA\_Biogenic (Apr2019)

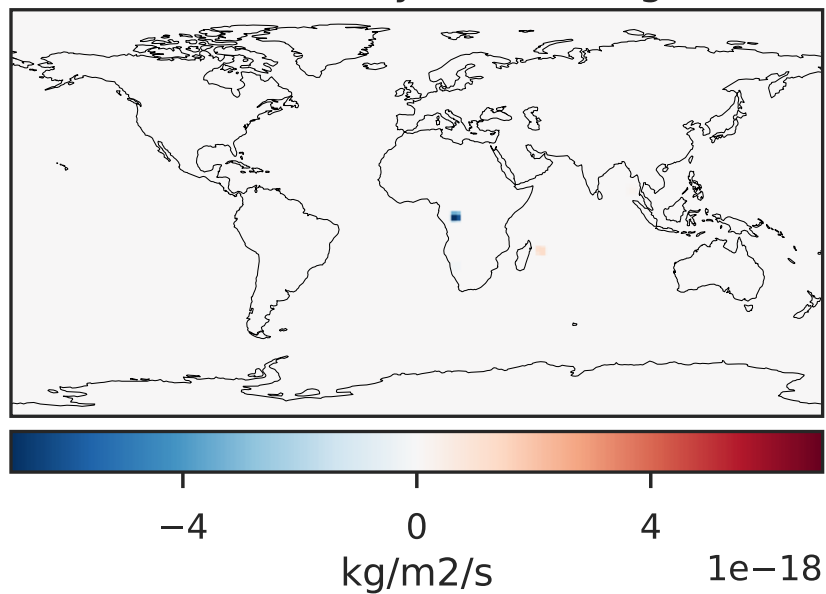
GCHP\_14.0.0 (Ref)  
c24



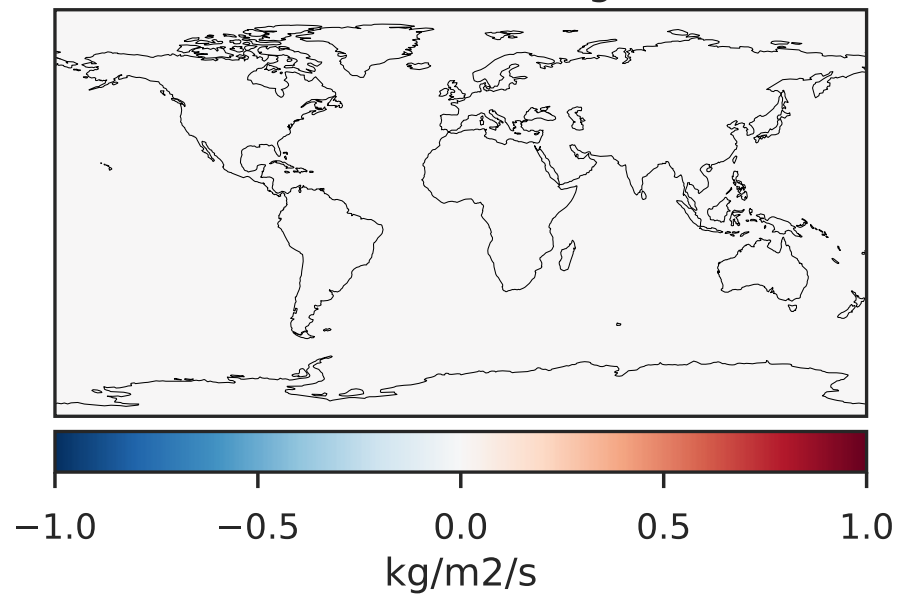
GCHP\_14.2.0 (Dev)  
c24



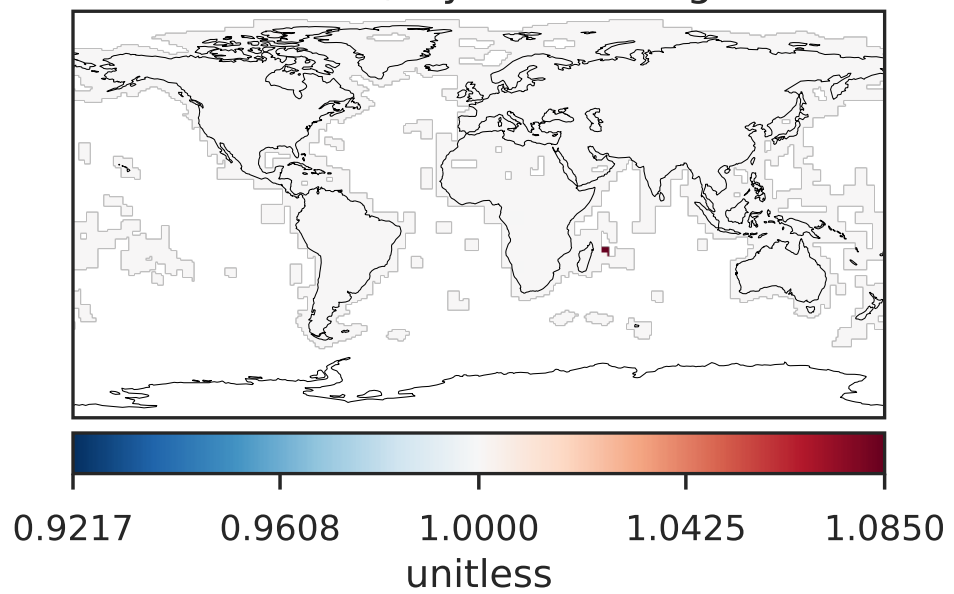
Difference (1x1.25)  
Dev - Ref, Dynamic Range



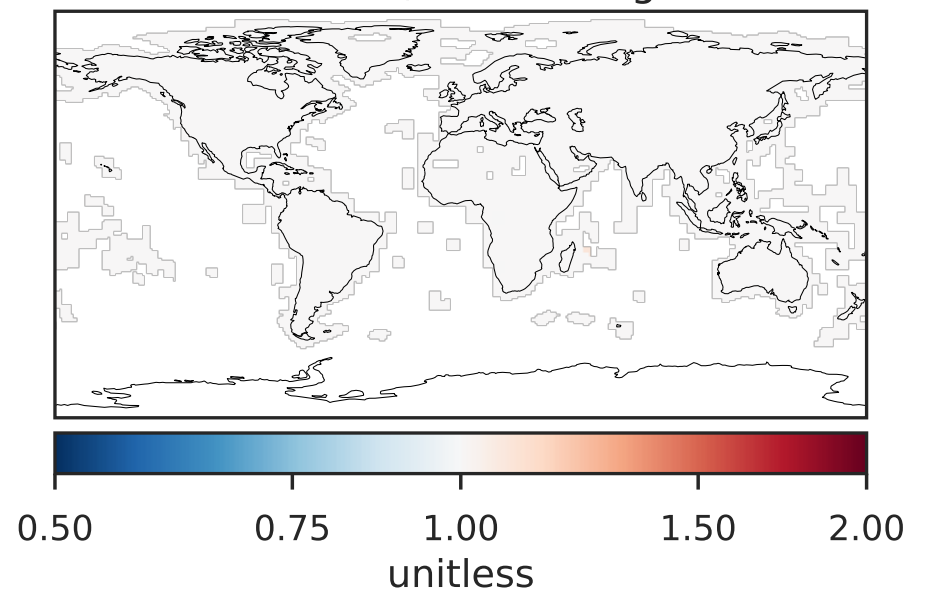
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

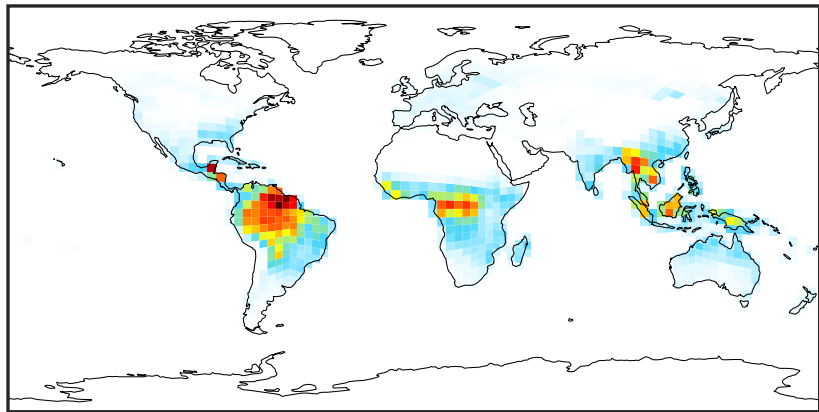


Ratio (1x1.25)  
Dev/Ref, Fixed Range



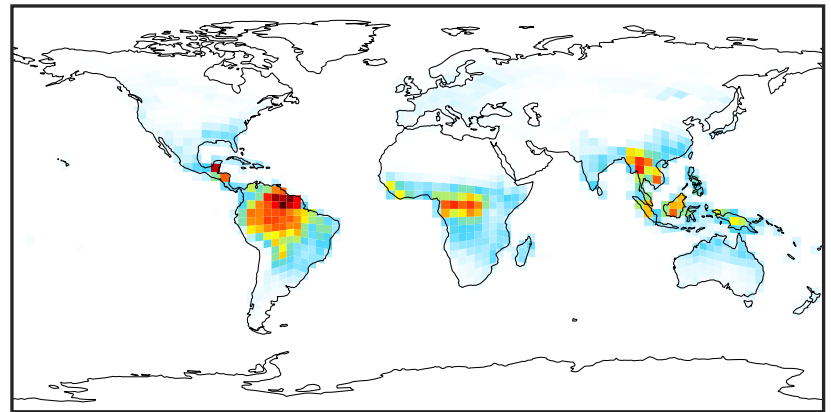
# EmisMTPA\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.4 0.8 1.2  $1e-10$   
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



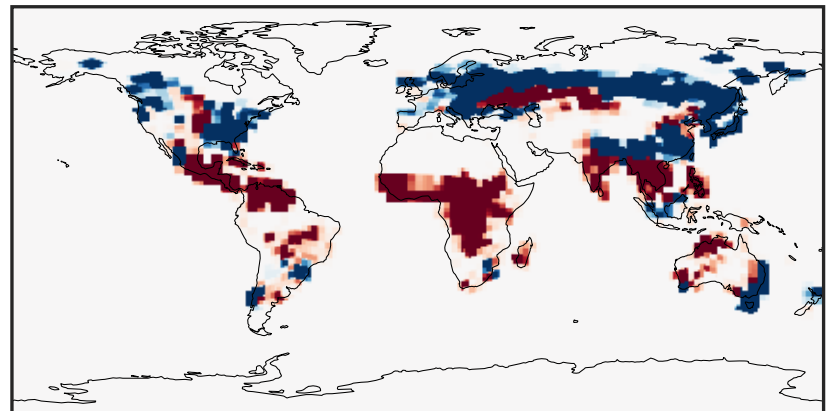
0.0 0.4 0.8 1.2  $1e-10$   
kg/m<sup>2</sup>/s

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



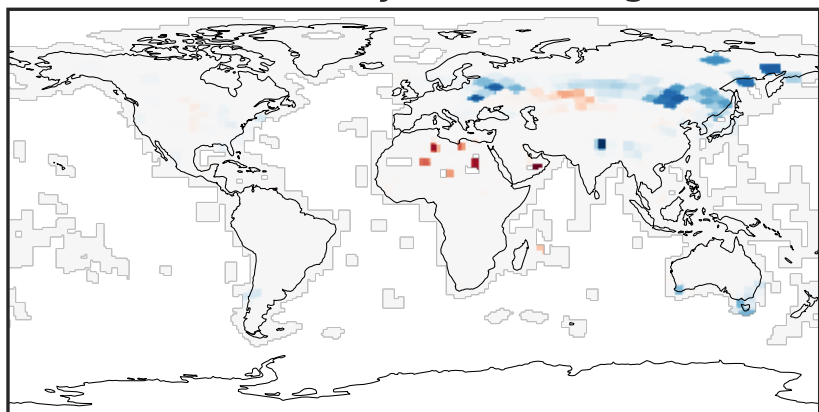
-2.5 0.0 2.5  $1e-12$   
kg/m<sup>2</sup>/s

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



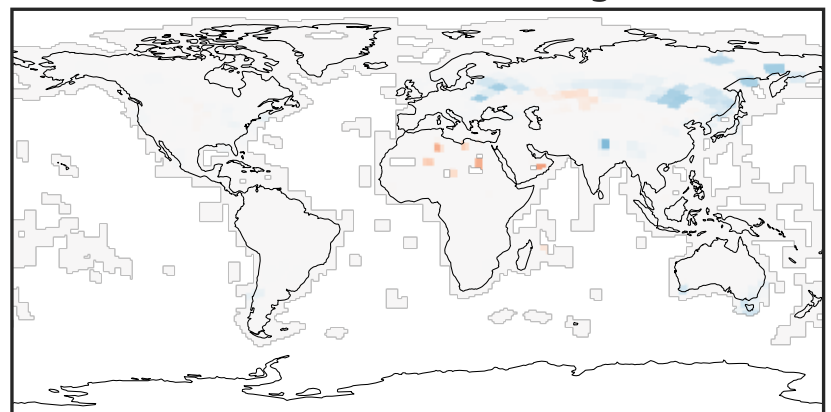
-2 0 2  $1e-15$   
kg/m<sup>2</sup>/s

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



0.7482 0.8741 1.0000 1.1683 1.3366  
unitless

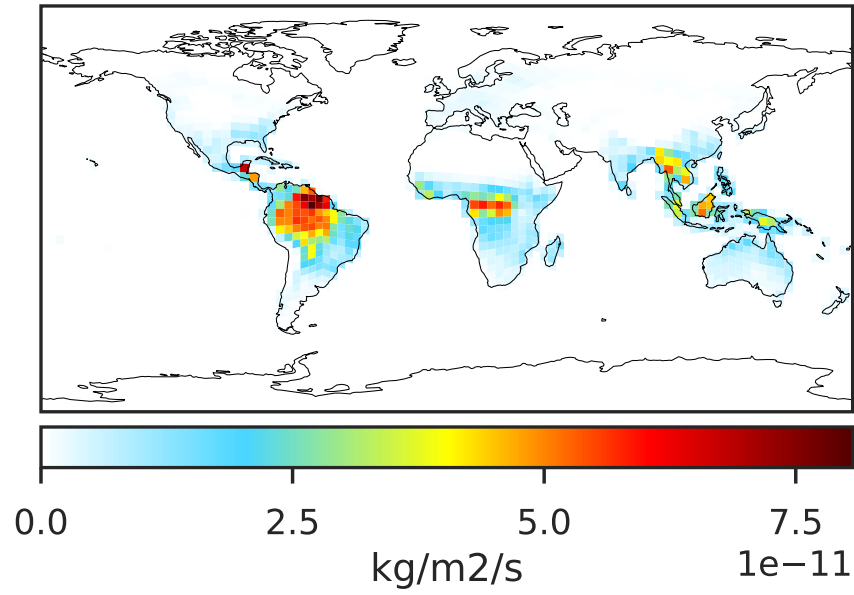
Ratio (1x1.25)  
Dev/Ref, Fixed Range



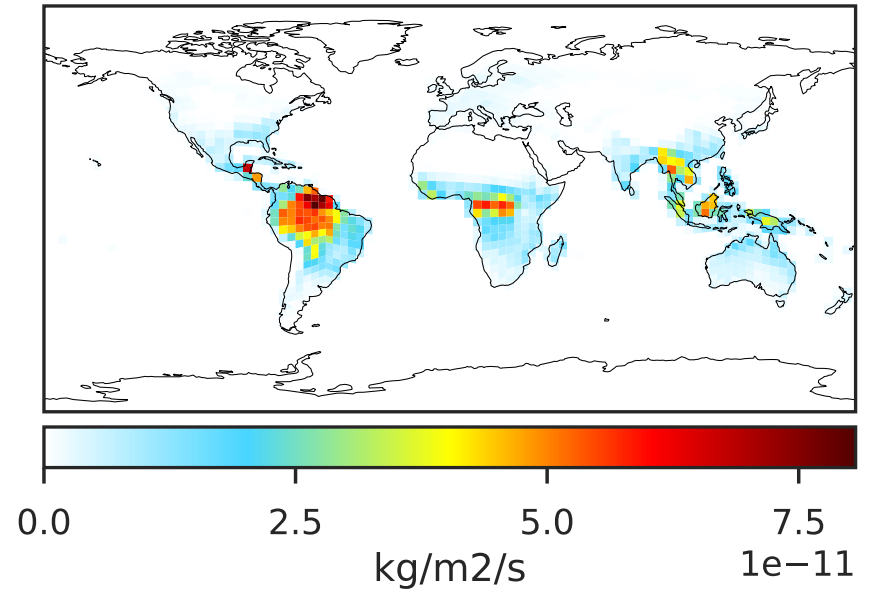
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisMTPO\_Biogenic (Apr2019)

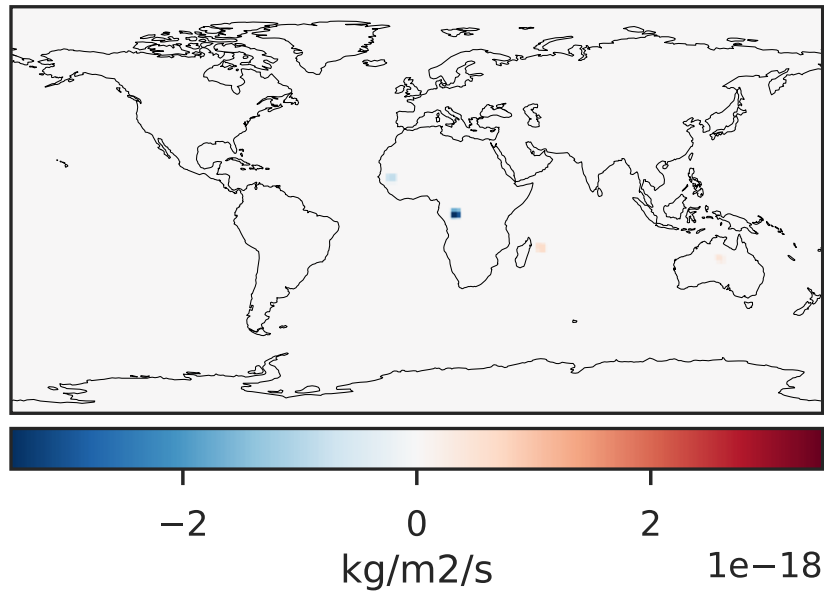
GCHP\_14.0.0 (Ref)  
c24



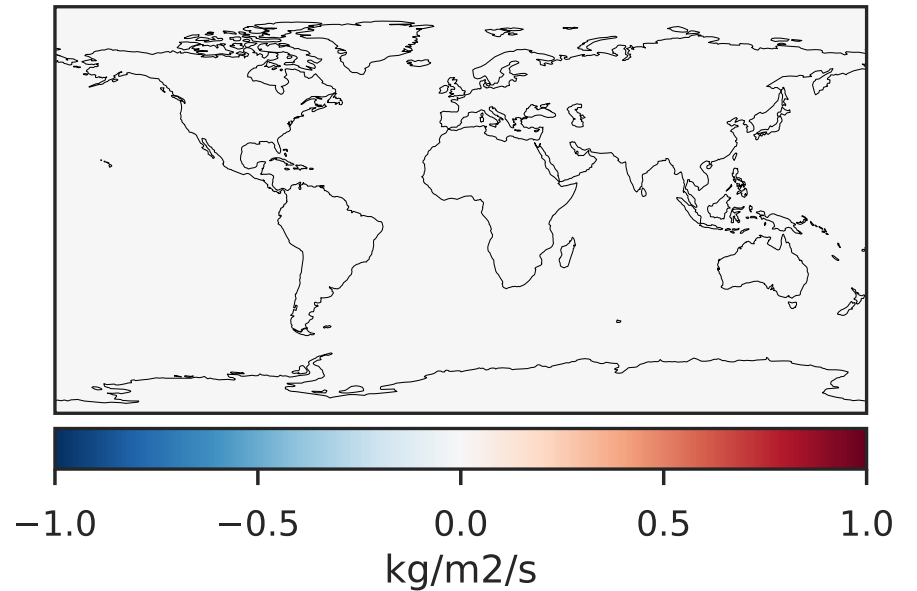
GCHP\_14.2.0 (Dev)  
c24



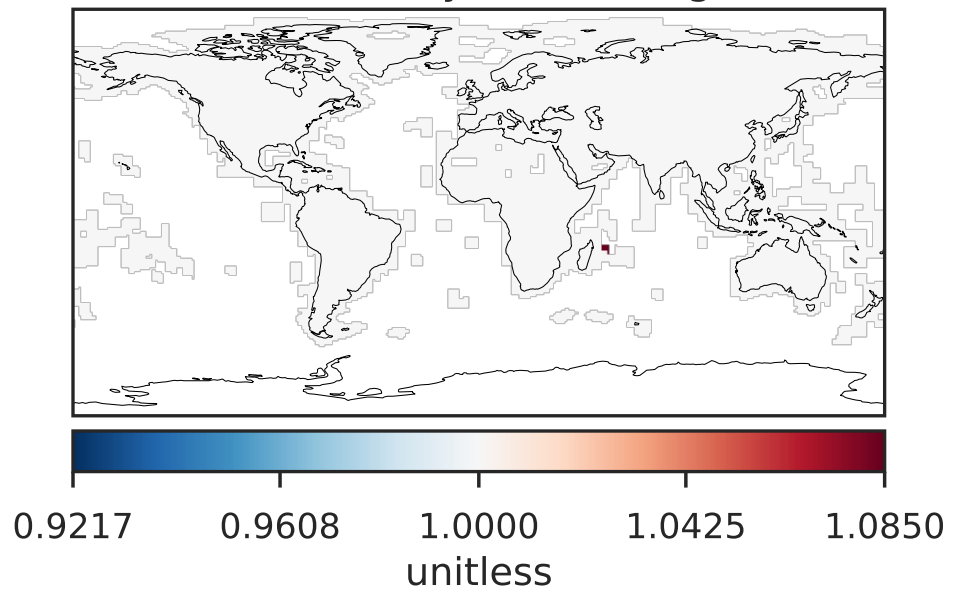
Difference (1x1.25)  
Dev - Ref, Dynamic Range



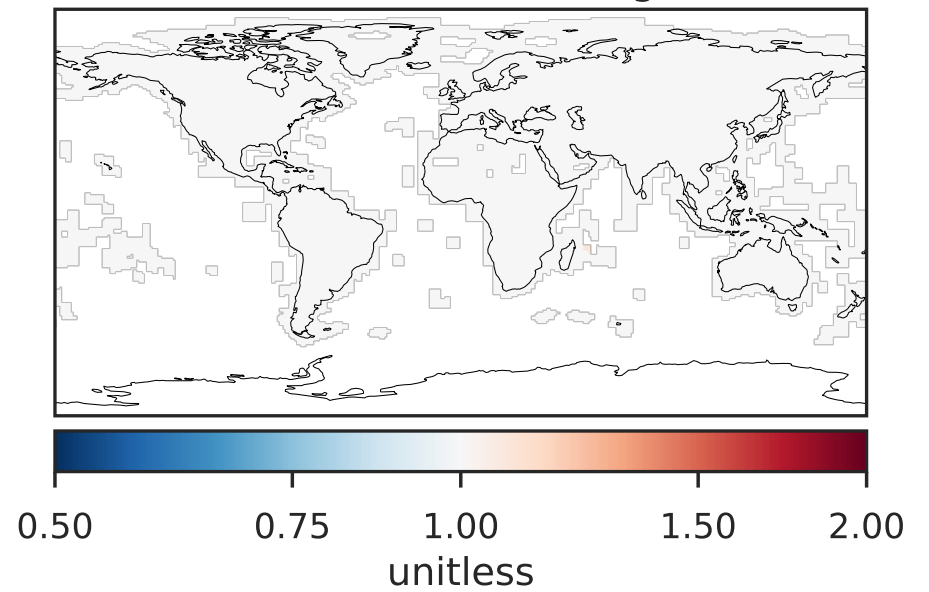
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



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



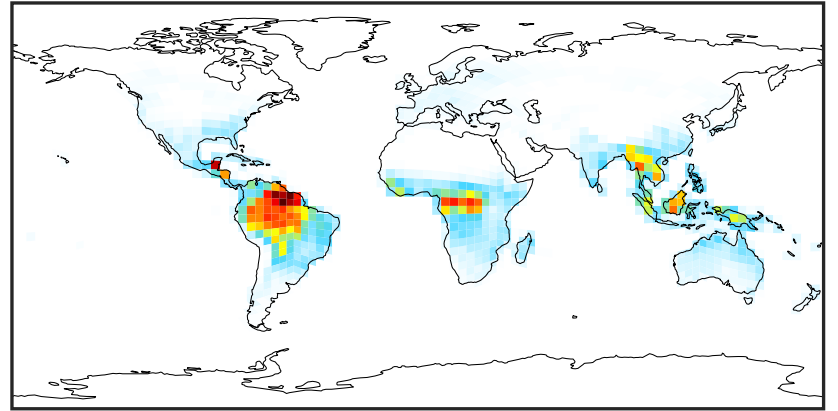
# EmisMTPO\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



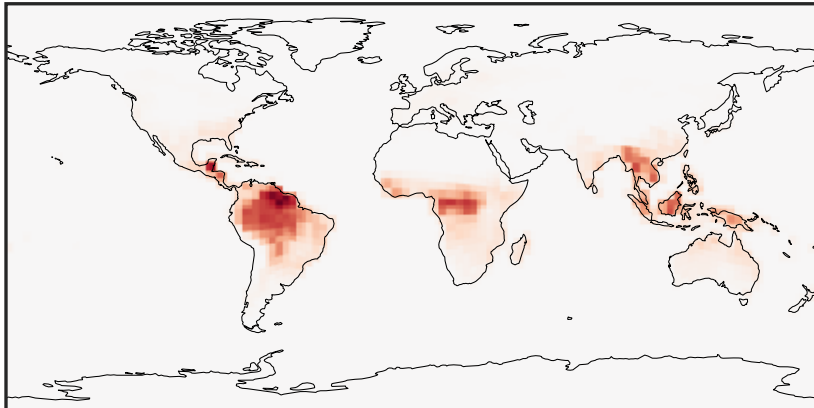
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



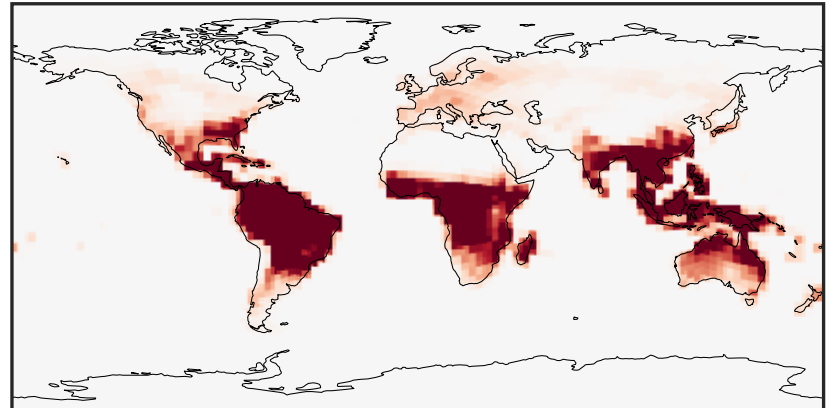
0.0 2.5 5.0 7.5  
kg/m<sup>2</sup>/s 1e-11

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



-5 0 5  
kg/m<sup>2</sup>/s 1e-11

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



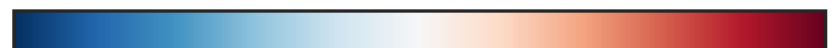
-5 0 5  
kg/m<sup>2</sup>/s 1e-12

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



Undefined throughout domain  
unitless

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

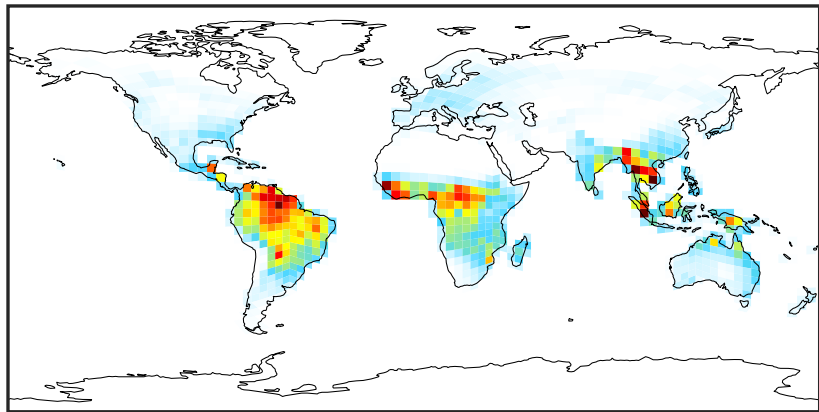


Undefined throughout domain  
unitless



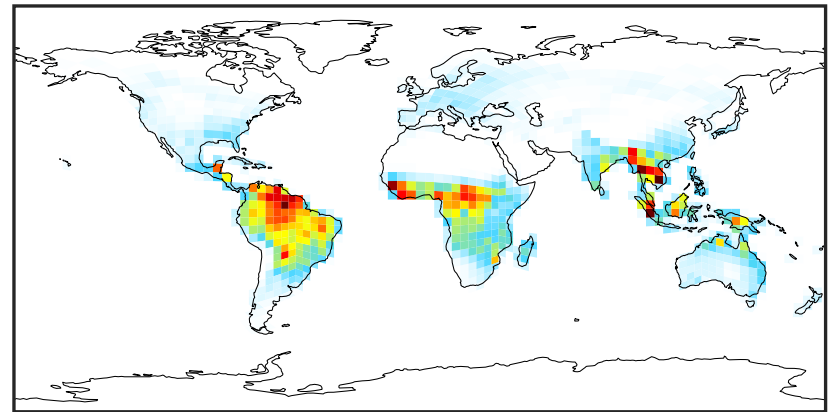
# EmisLIMO\_Biogenic (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



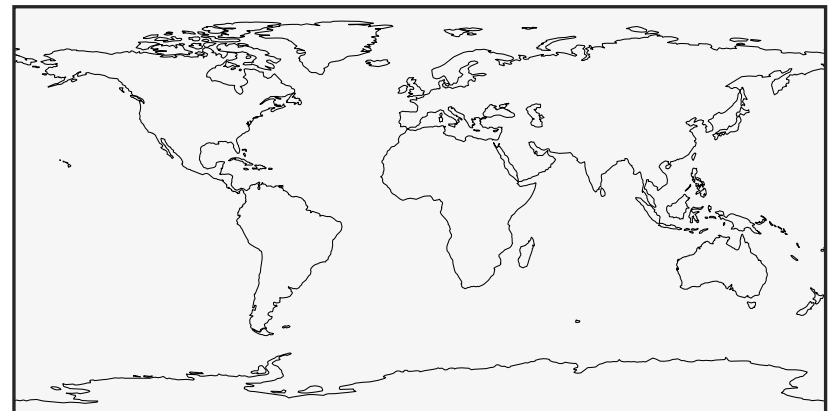
0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-11

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



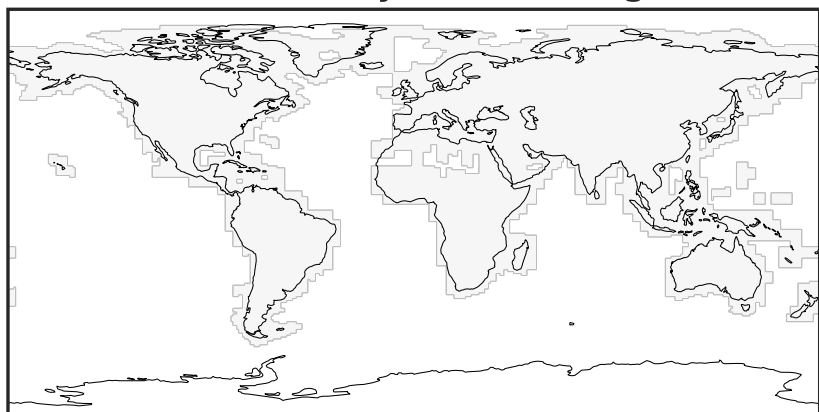
-1.5 0.0 1.5  
kg/m<sup>2</sup>/s 1e-19

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



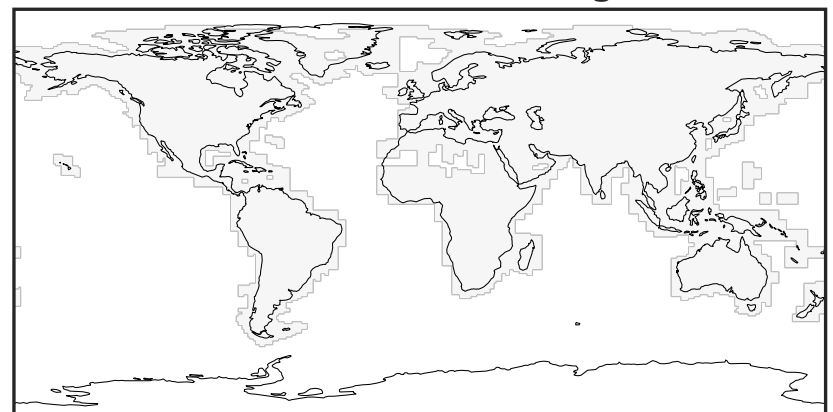
-1.0 -0.5 0.0 0.5 1.0  
kg/m<sup>2</sup>/s

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



1  
unitless

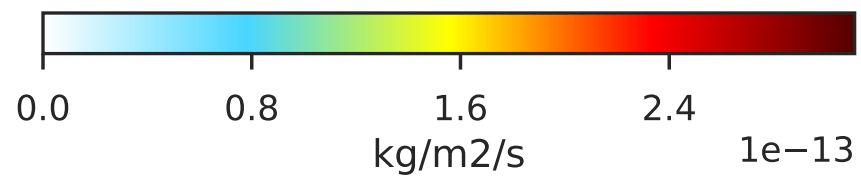
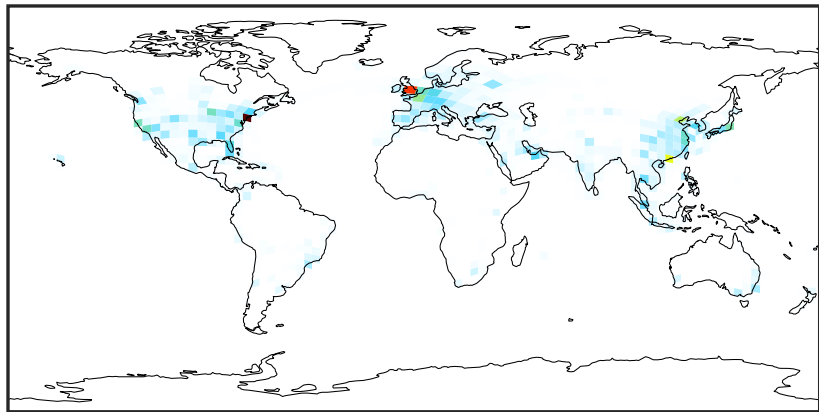
Ratio (1x1.25)  
Dev/Ref, Fixed Range



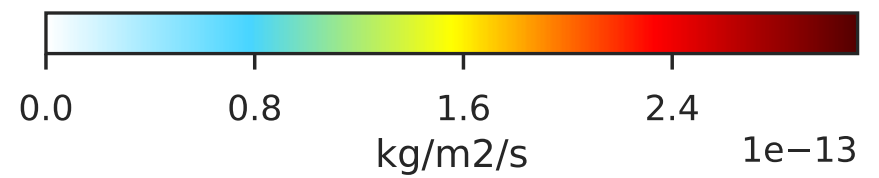
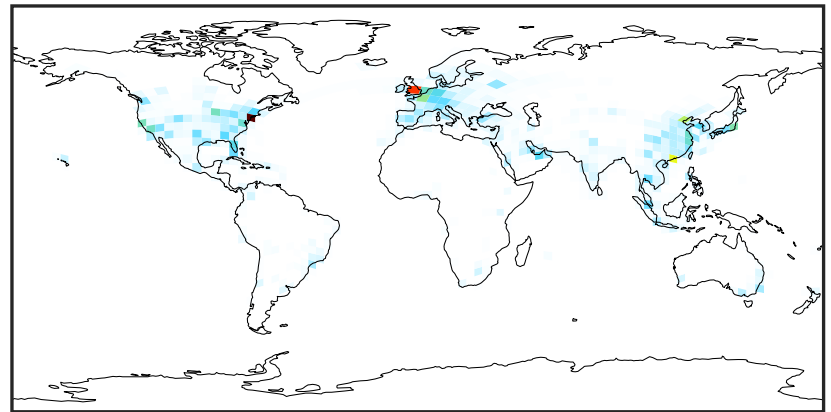
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisALK4\_Aircraft (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



GCHP\_14.2.0 (Dev)  
c24

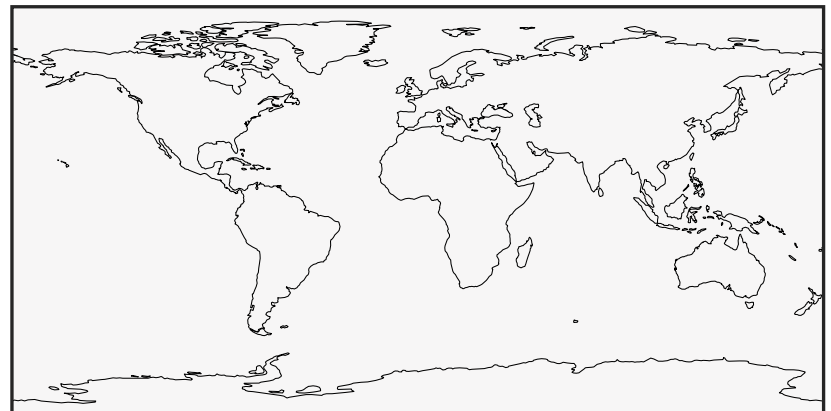


Difference (1x1.25)  
Dev - Ref, Dynamic Range



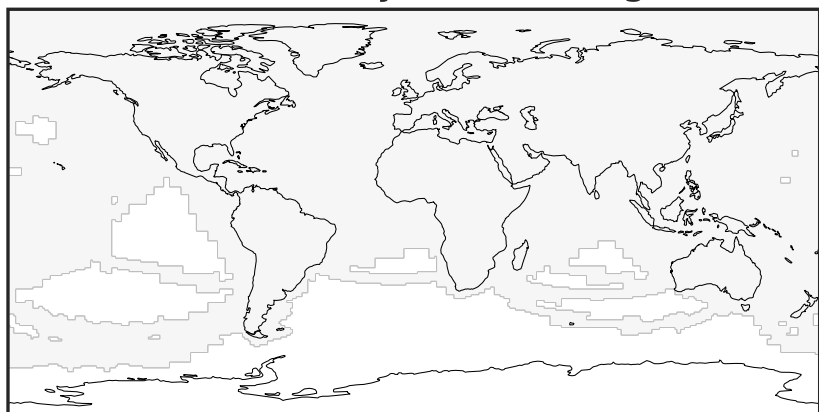
Zero throughout domain  
kg/m2/s

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



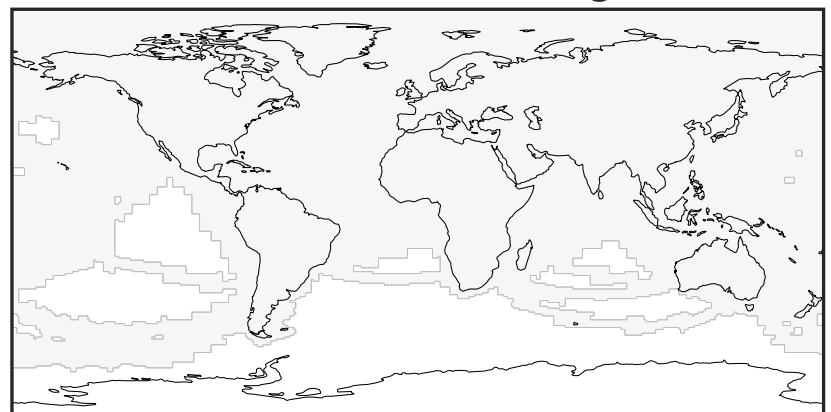
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

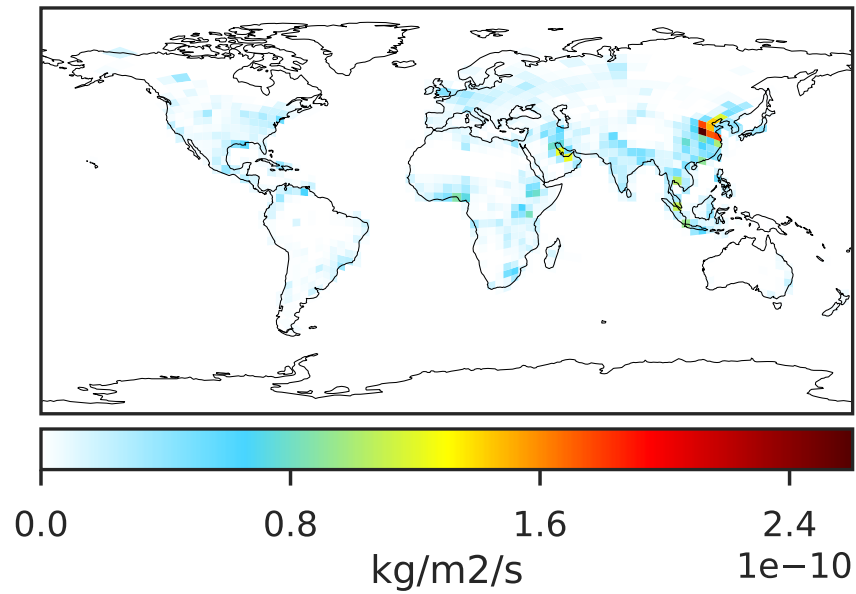
Ratio (1x1.25)  
Dev/Ref, Fixed Range



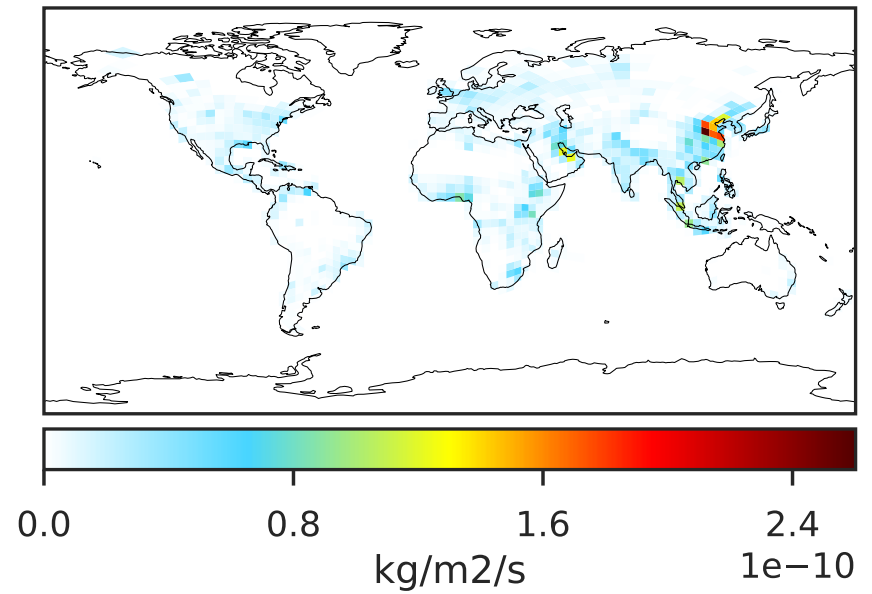
Ref and Dev equal throughout domain  
unitless

# EmisALK4\_Anthro (Apr2019)

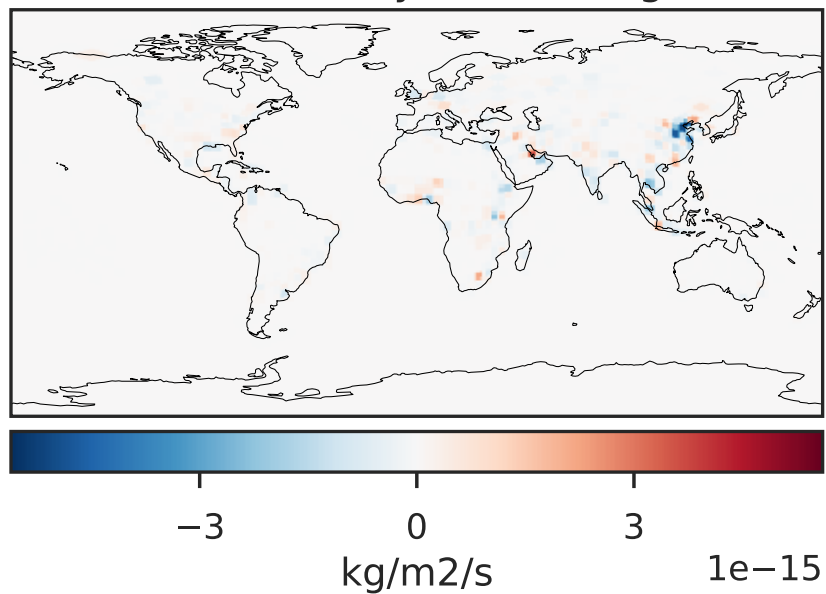
GCHP\_14.0.0 (Ref)  
c24



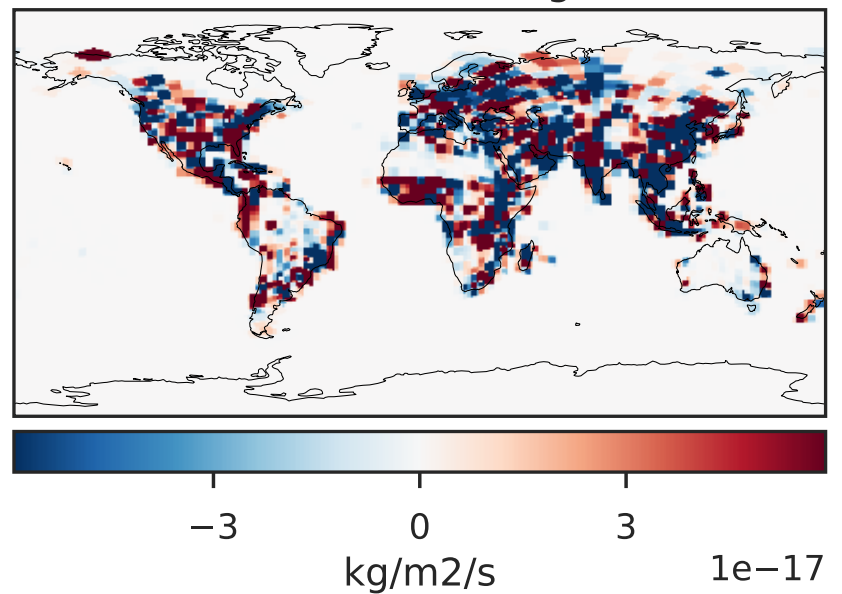
GCHP\_14.2.0 (Dev)  
c24



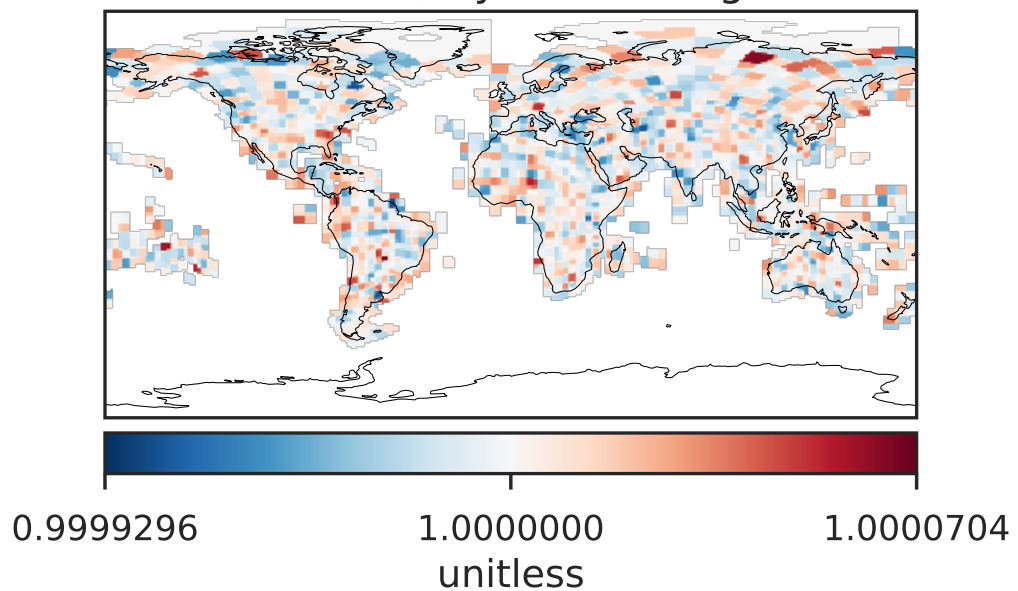
Difference (1x1.25)  
Dev - Ref, Dynamic Range



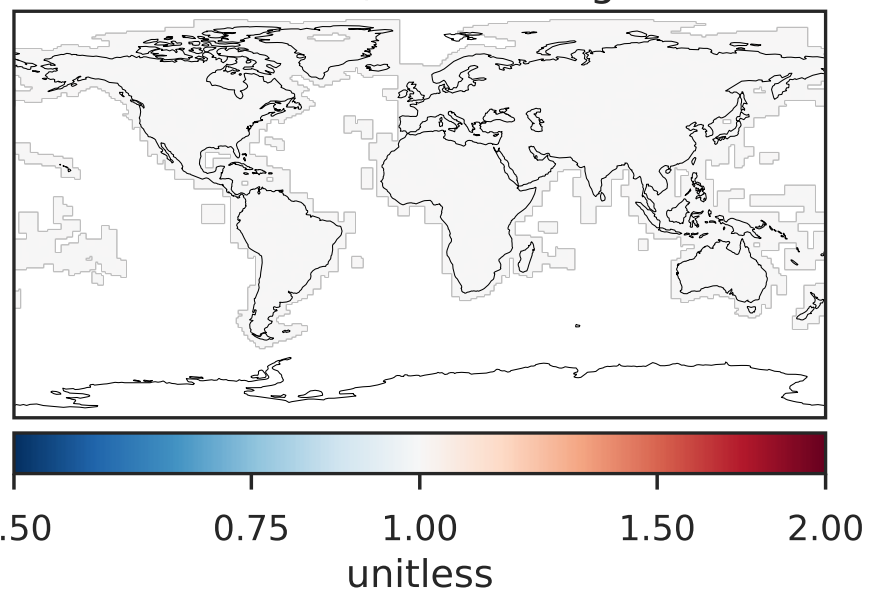
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

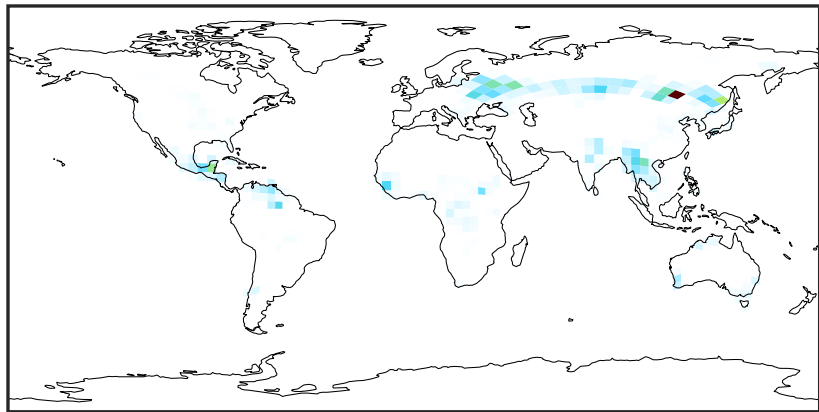


Ratio (1x1.25)  
Dev/Ref, Fixed Range



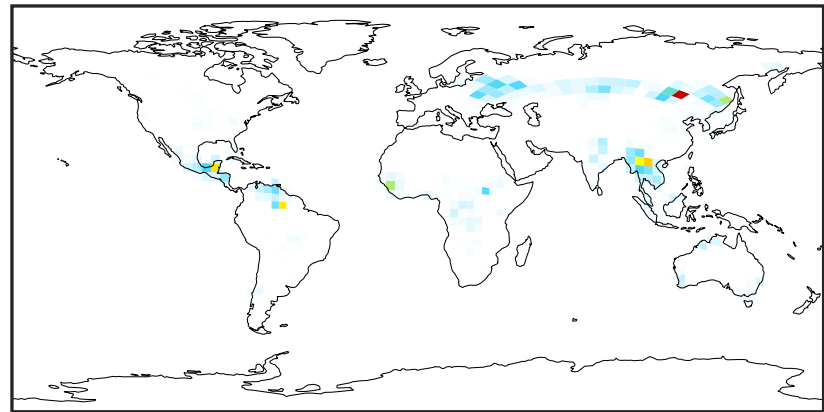
# EmisALK4\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



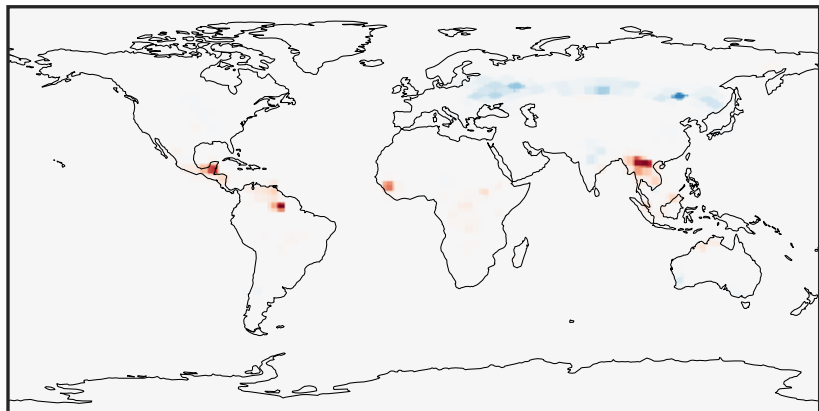
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

GCHP\_14.2.0 (Dev)  
c24



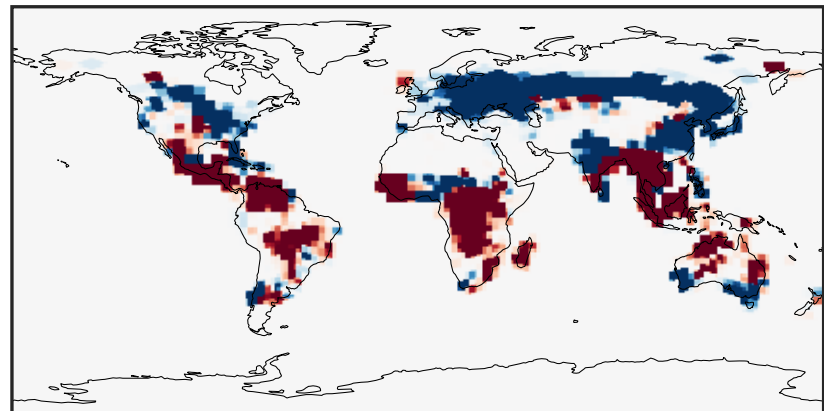
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

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



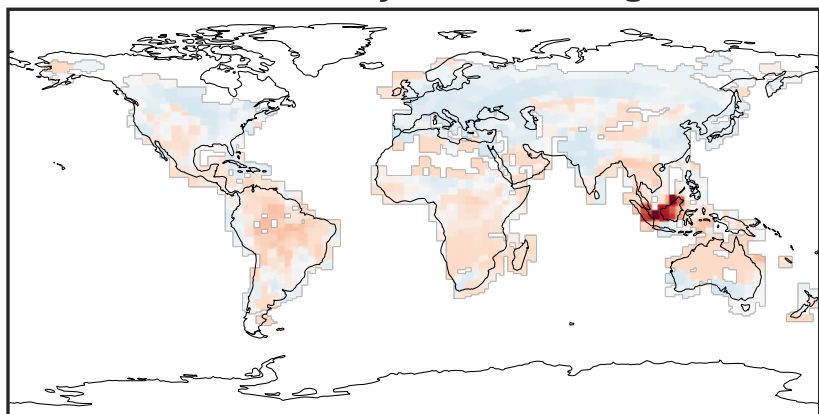
-8 0 8  
kg/m<sup>2</sup>/s 1e-13

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



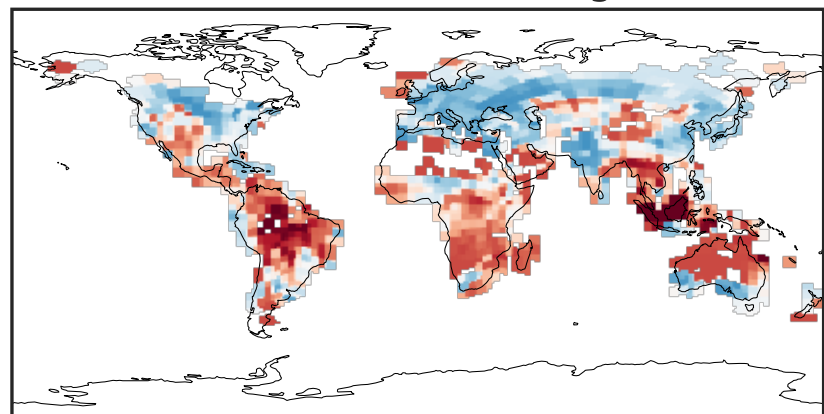
-1 0 1  
kg/m<sup>2</sup>/s 1e-15

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



1e-01 1 10  
unitless

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

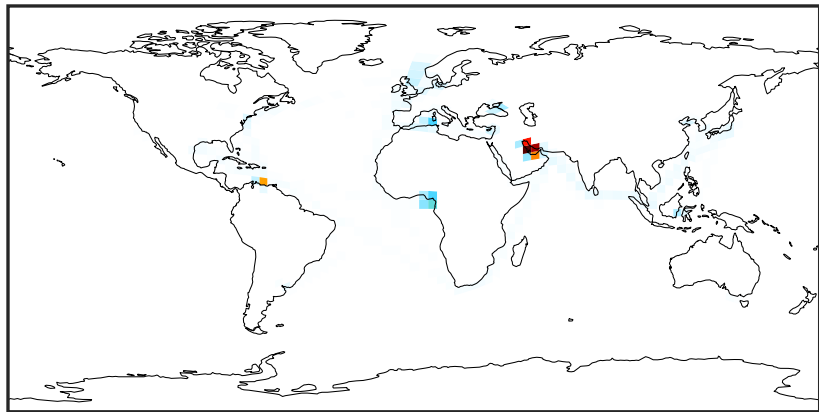


0.50 0.75 1.00 1.50 2.00  
unitless



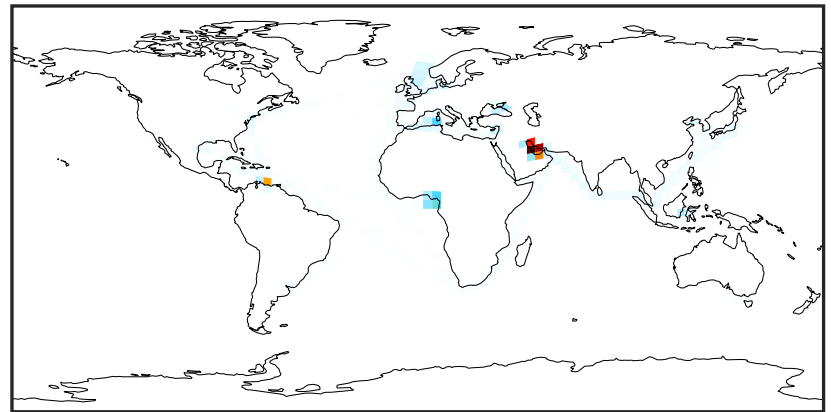
# EmisALK4\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
 $\text{kg/m}^2/\text{s}$   $10^{-11}$

GCHP\_14.2.0 (Dev)  
c24



0.0 0.8 1.6 2.4  
 $\text{kg/m}^2/\text{s}$   $10^{-11}$

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



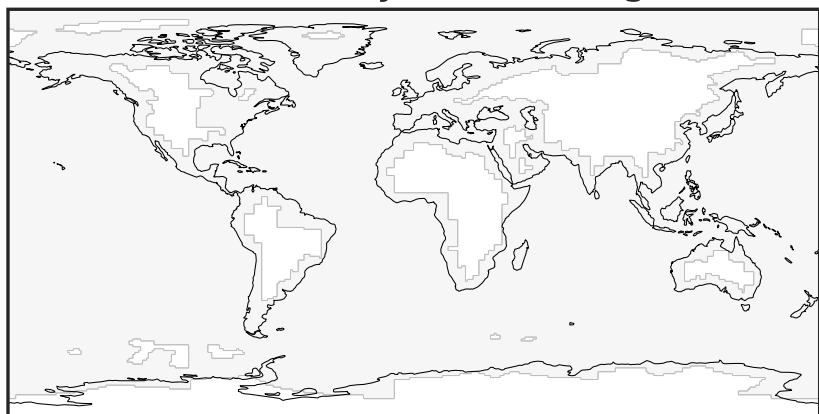
Zero throughout domain  
 $\text{kg/m}^2/\text{s}$

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



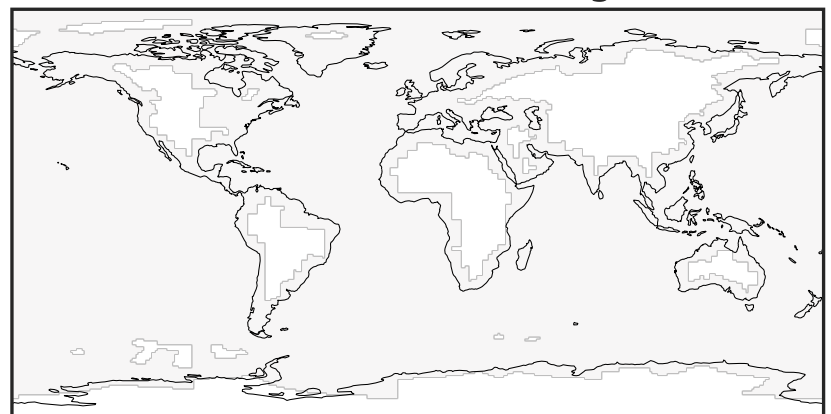
Zero throughout domain  
 $\text{kg/m}^2/\text{s}$

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



Ref and Dev equal throughout domain  
unitless

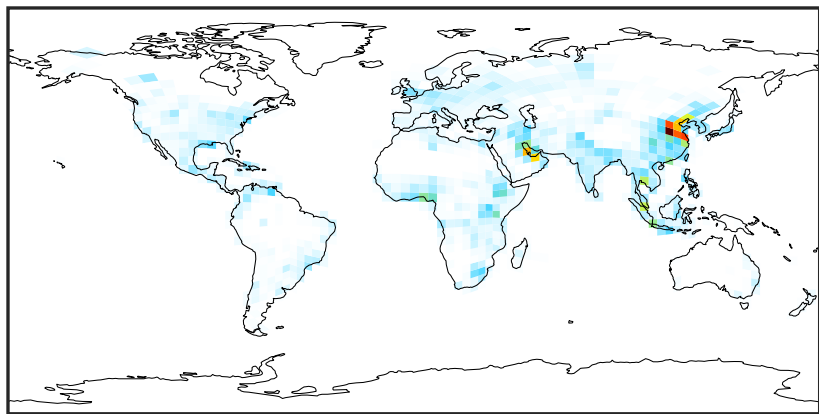
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

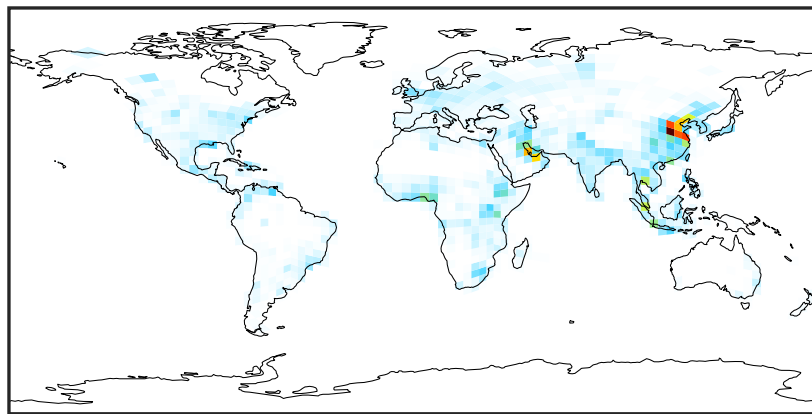
# EmisALK4\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



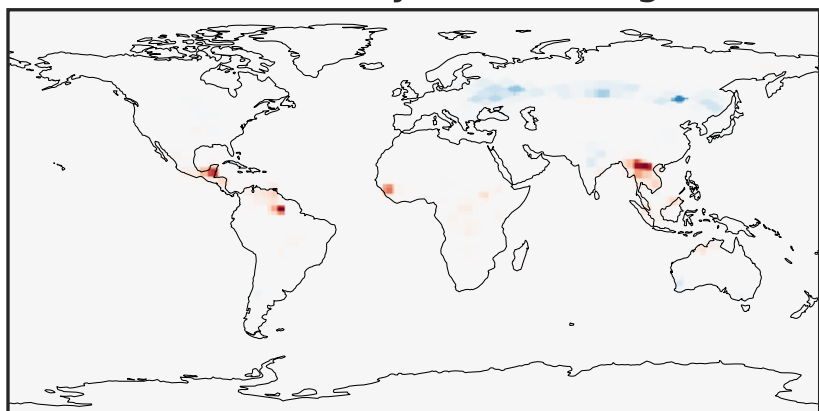
0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-10

GCHP\_14.2.0 (Dev)  
c24



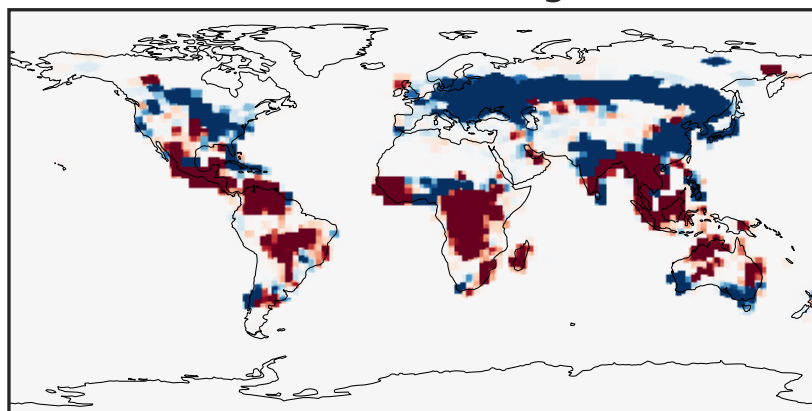
0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-10

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



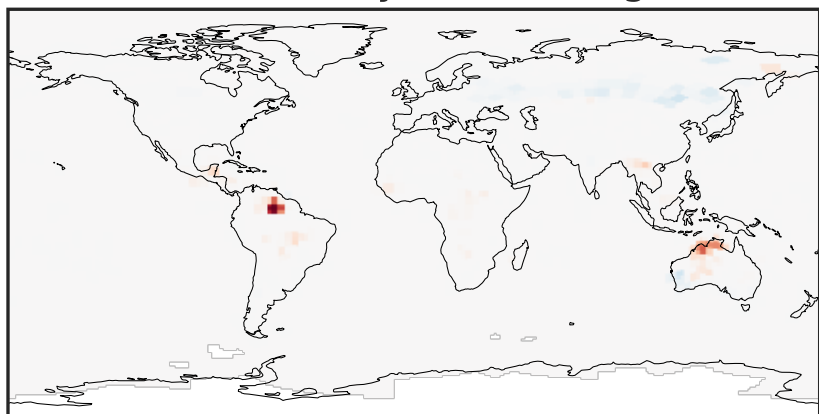
-8 0 8  
kg/m<sup>2</sup>/s 1e-13

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



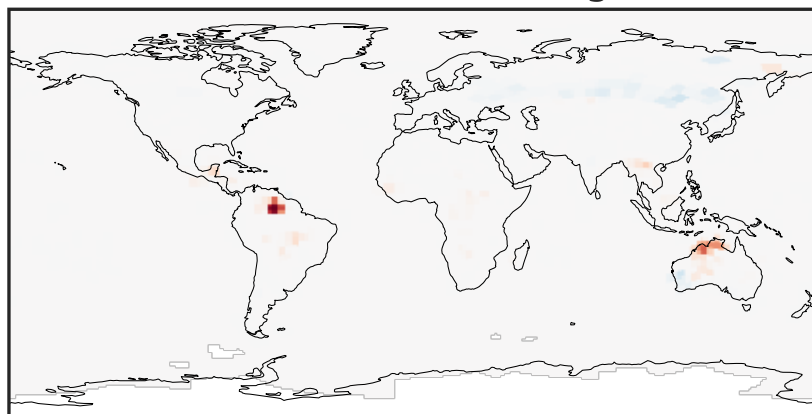
-1 0 1  
kg/m<sup>2</sup>/s 1e-15

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



0.508 0.754 1.000 1.484 1.968  
unitless

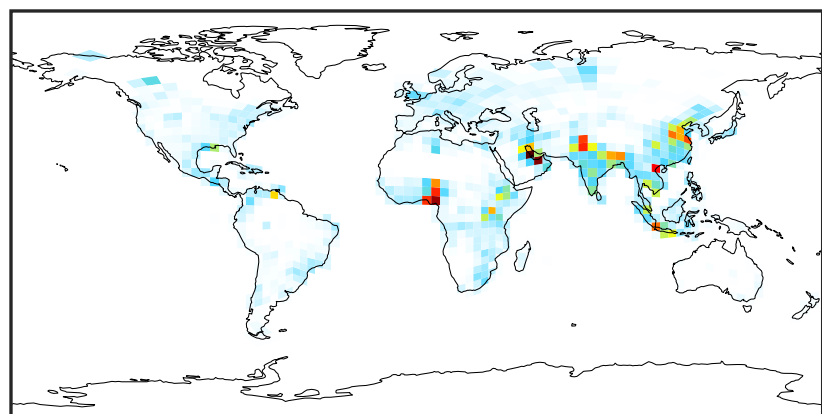
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

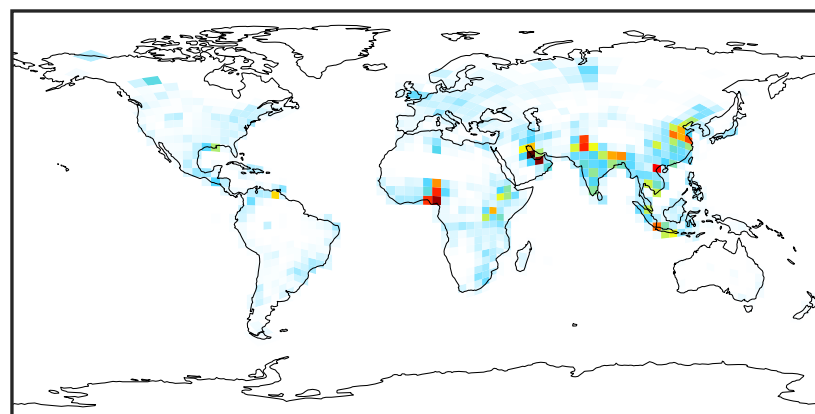
# EmisBENZ\_Anthro (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



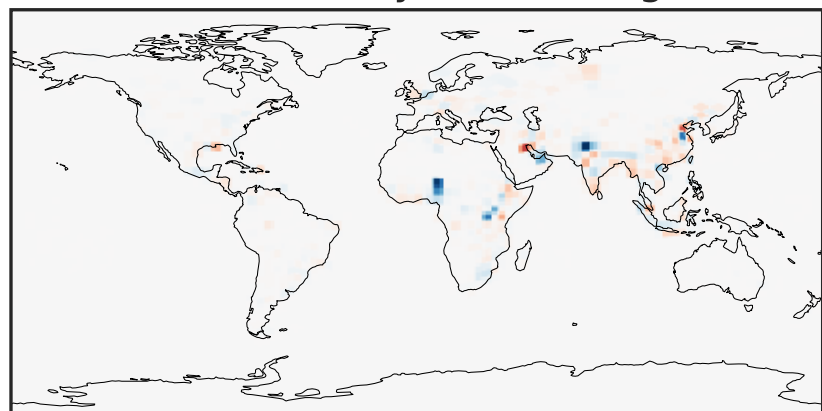
0.0 0.5 1.0 1.5  
kg/m2/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



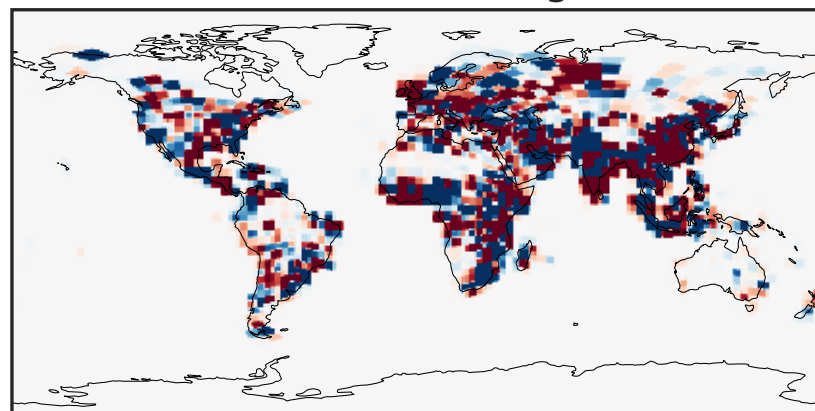
0.0 0.5 1.0 1.5  
kg/m2/s 1e-11

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



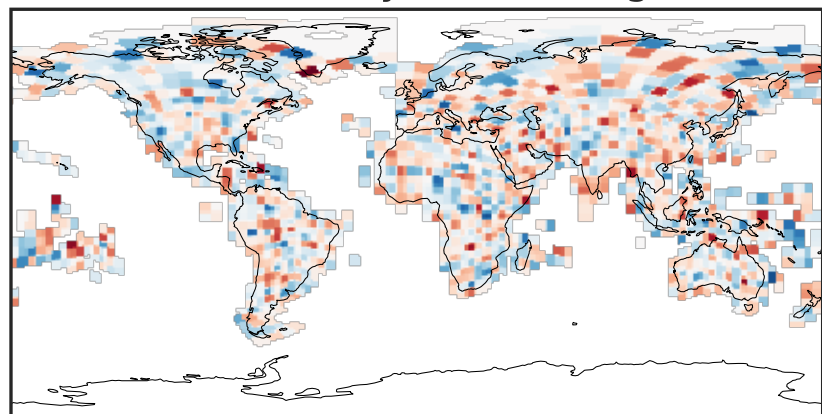
-3 0 3  
kg/m2/s 1e-16

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



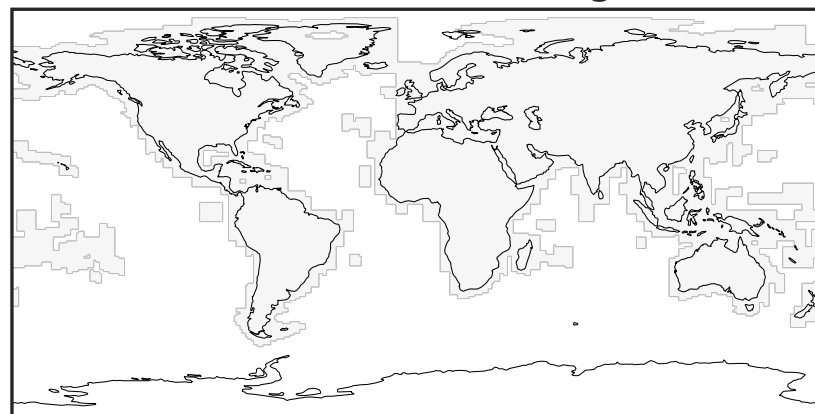
-3 0 3  
kg/m2/s 1e-18

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



0.9999372 1.000000 1.0000628  
unitless

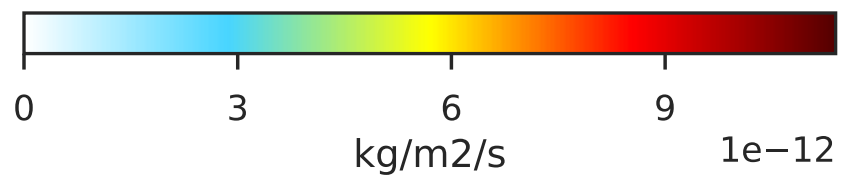
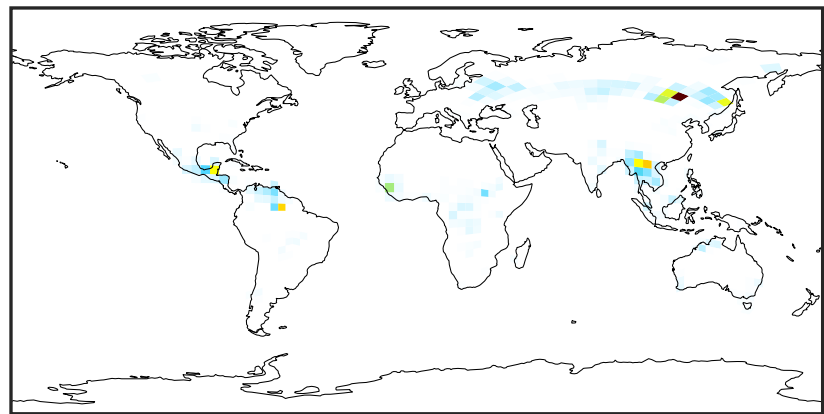
Ratio (1x1.25)  
Dev/Ref, Fixed Range



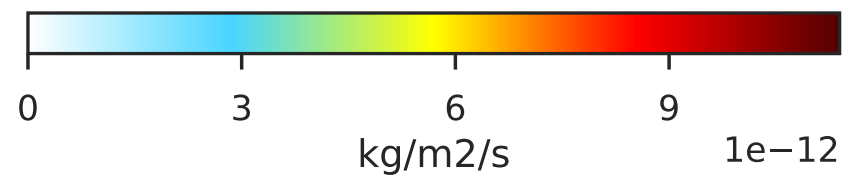
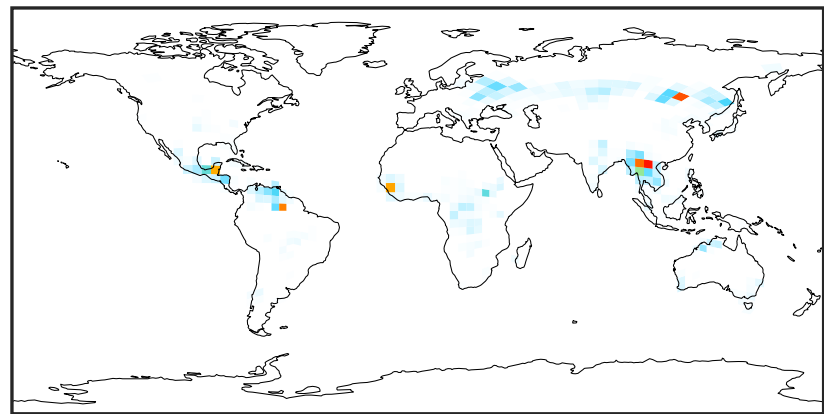
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisBENZ\_BioBurn (Apr2019)

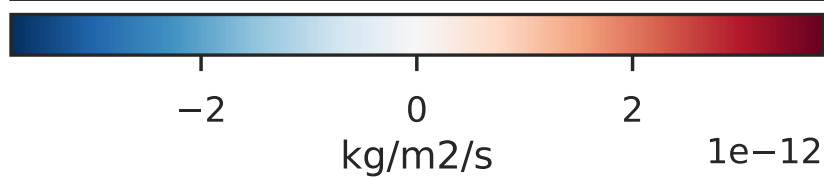
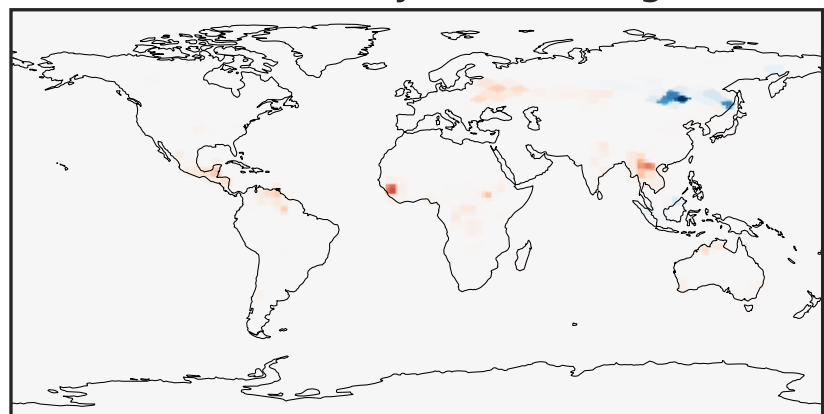
GCHP\_14.0.0 (Ref)  
c24



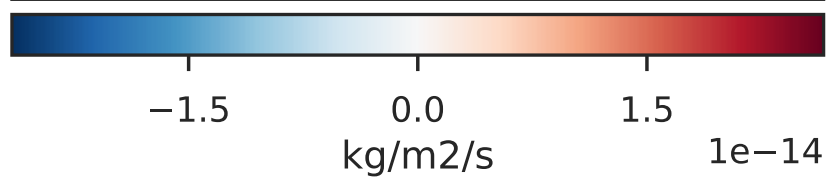
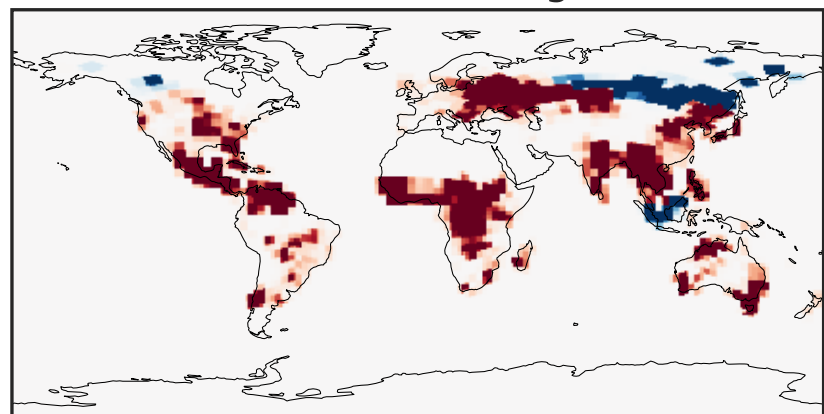
GCHP\_14.2.0 (Dev)  
c24



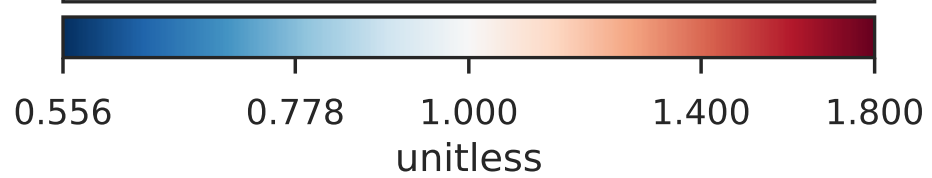
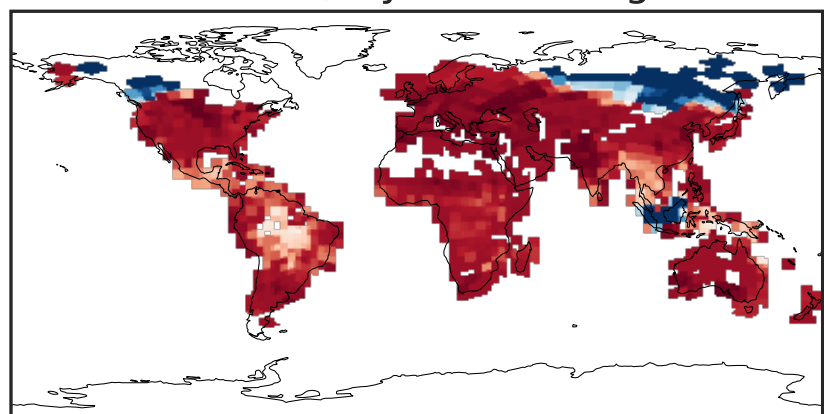
Difference (1x1.25)  
Dev - Ref, Dynamic Range



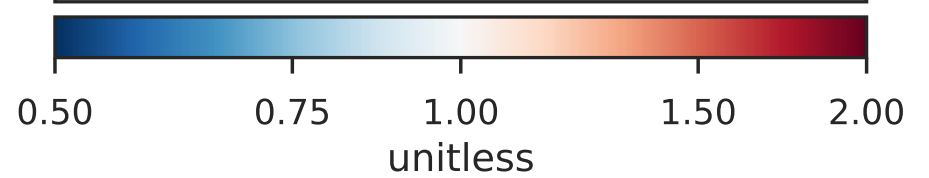
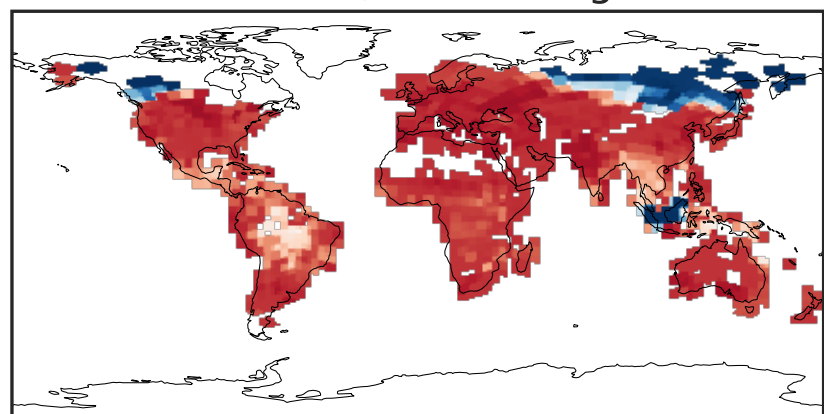
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



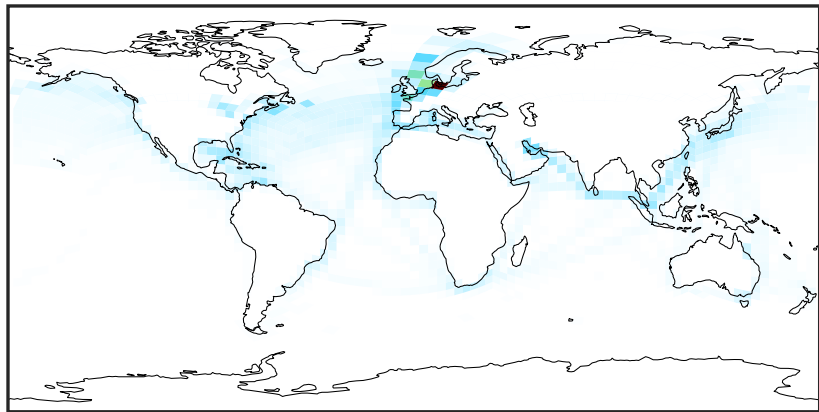
Ratio (1x1.25)  
Dev/Ref, Fixed Range





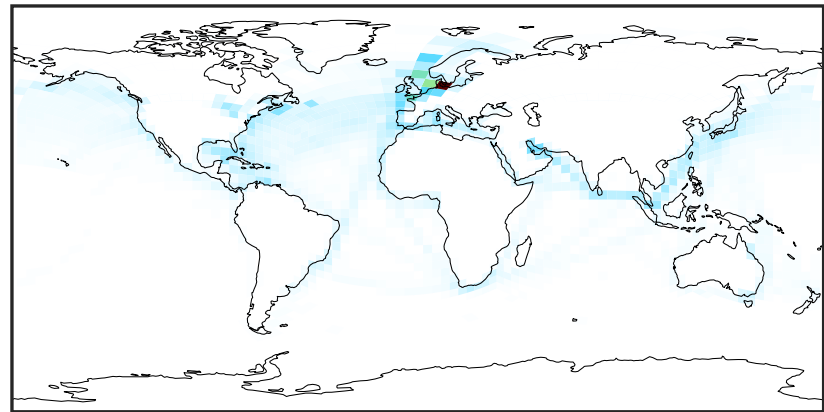
# EmisBENZ\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 1.5 3.0  $1e-13$   
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



0.0 1.5 3.0  $1e-13$   
kg/m<sup>2</sup>/s

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



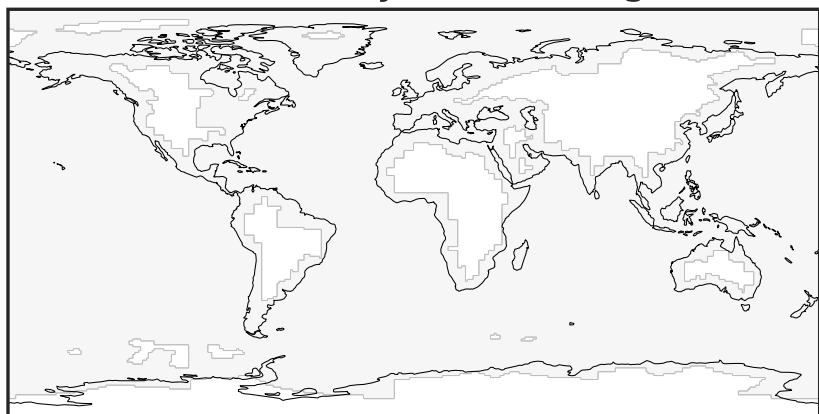
Zero throughout domain  
kg/m<sup>2</sup>/s

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



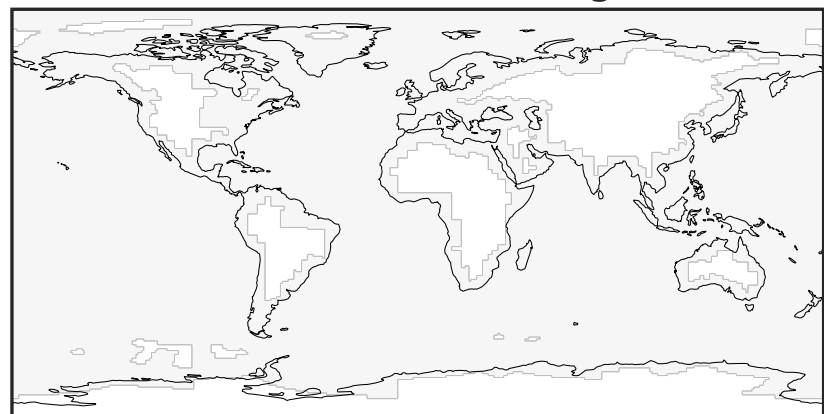
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

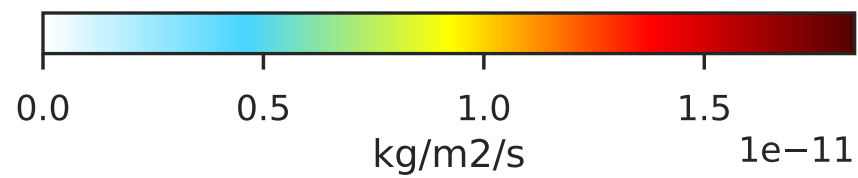
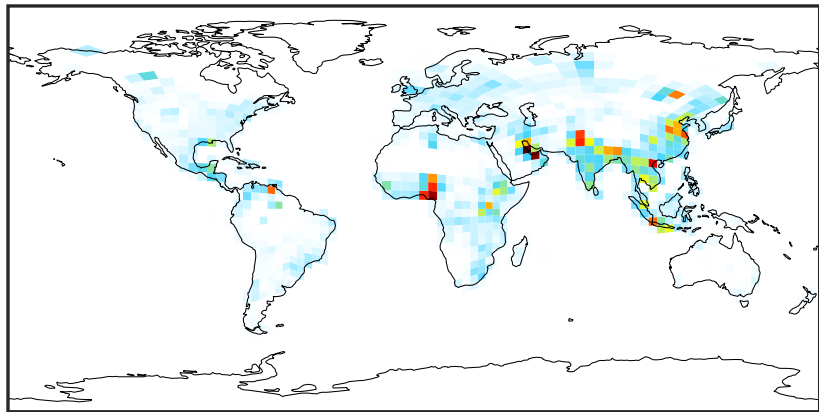
Ratio (1x1.25)  
Dev/Ref, Fixed Range



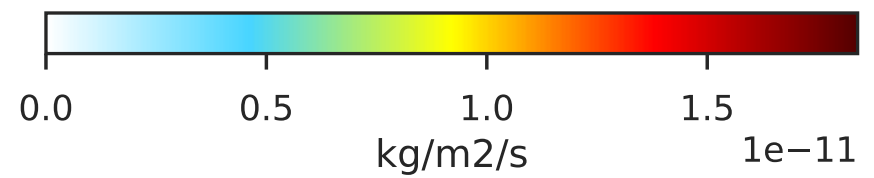
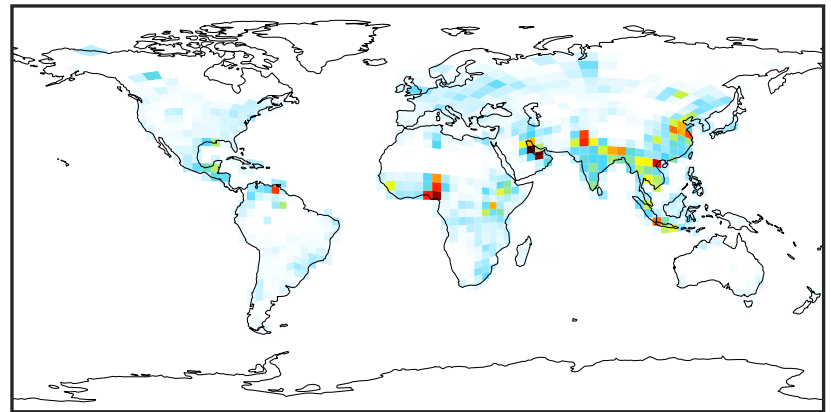
Ref and Dev equal throughout domain  
unitless

# EmisBENZ\_Total (Apr2019)

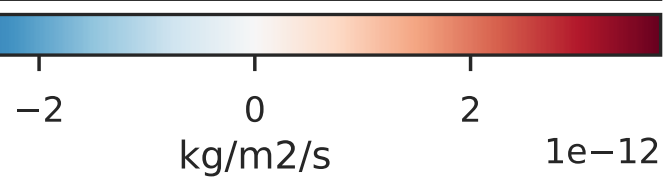
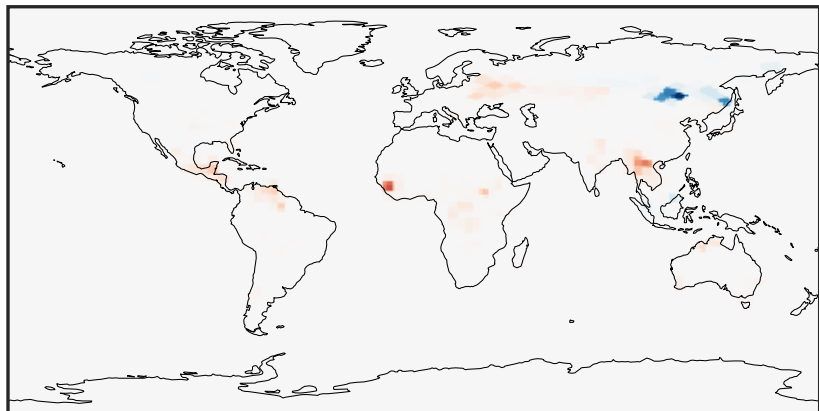
GCHP\_14.0.0 (Ref)  
c24



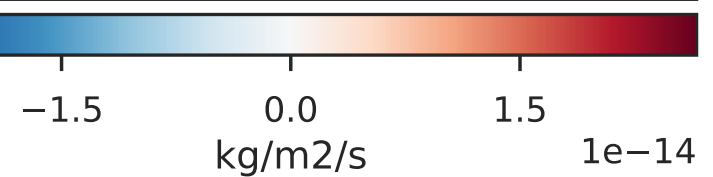
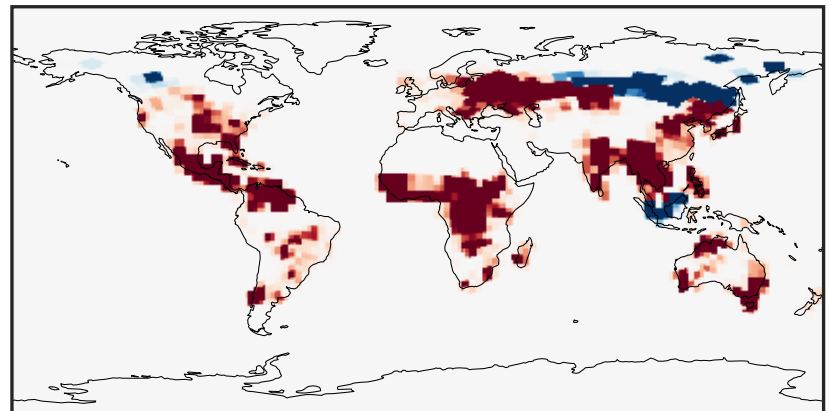
GCHP\_14.2.0 (Dev)  
c24



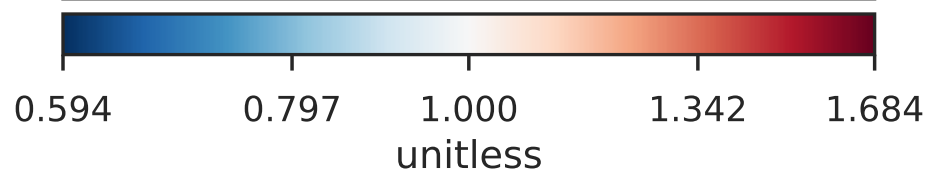
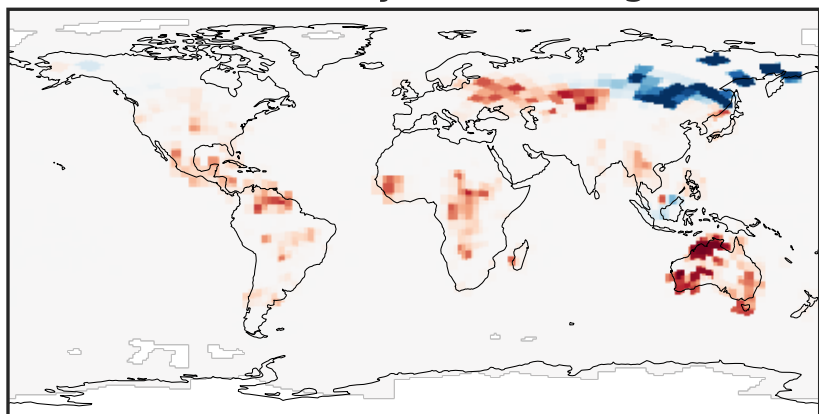
Difference (1x1.25)  
Dev - Ref, Dynamic Range



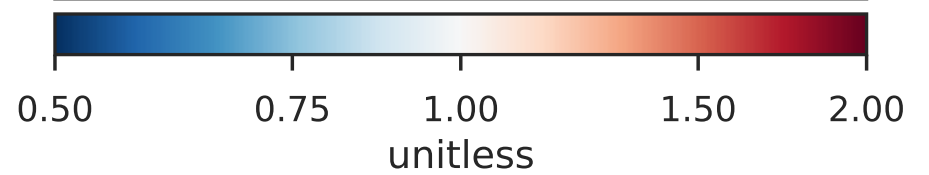
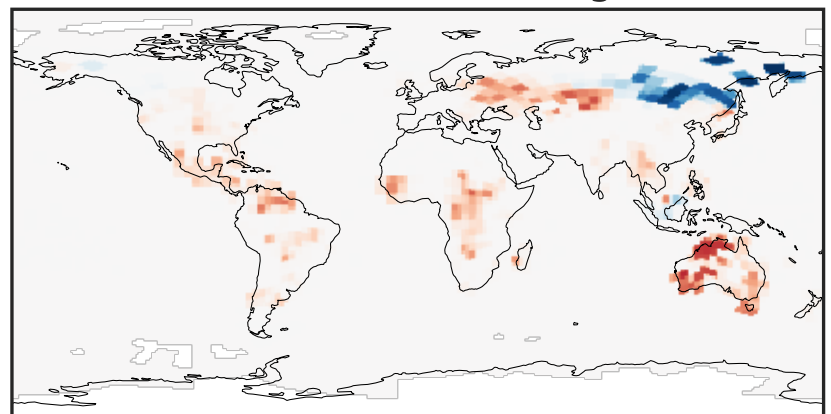
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

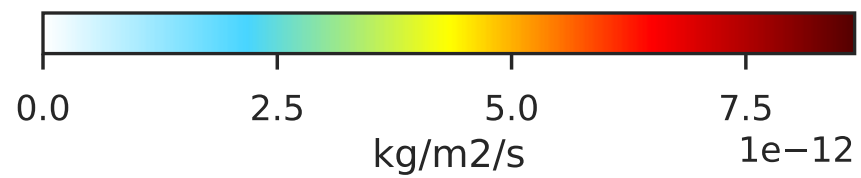
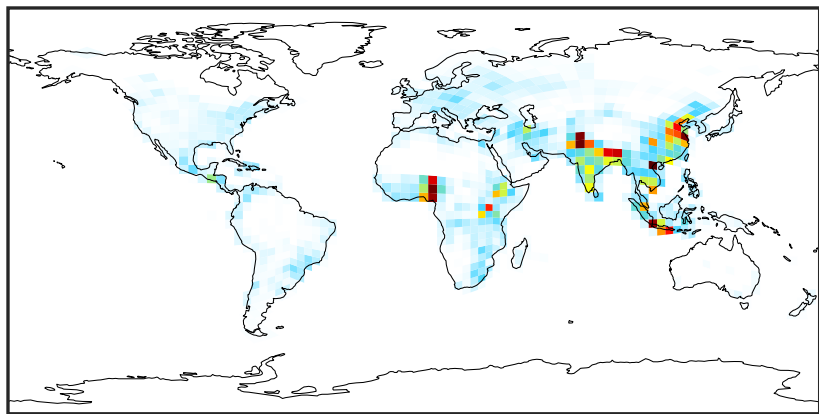


Ratio (1x1.25)  
Dev/Ref, Fixed Range

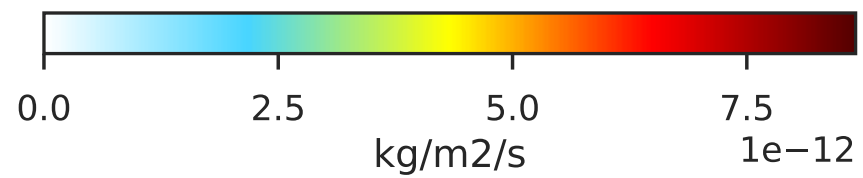
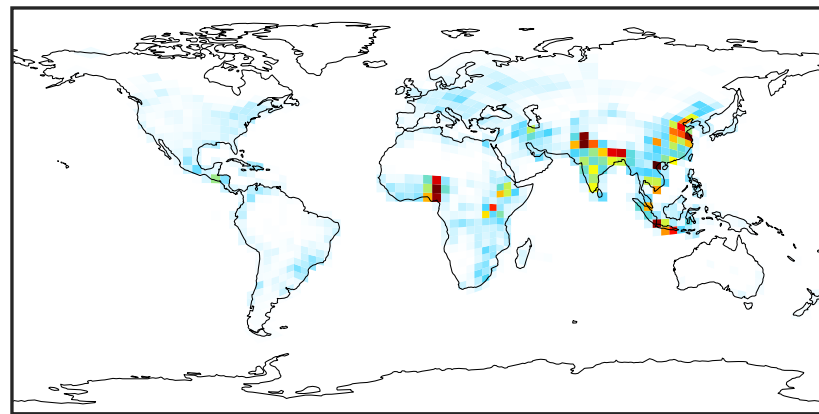


# EmisC2H2\_Anthro (Apr2019)

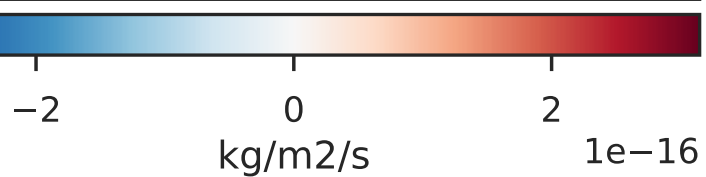
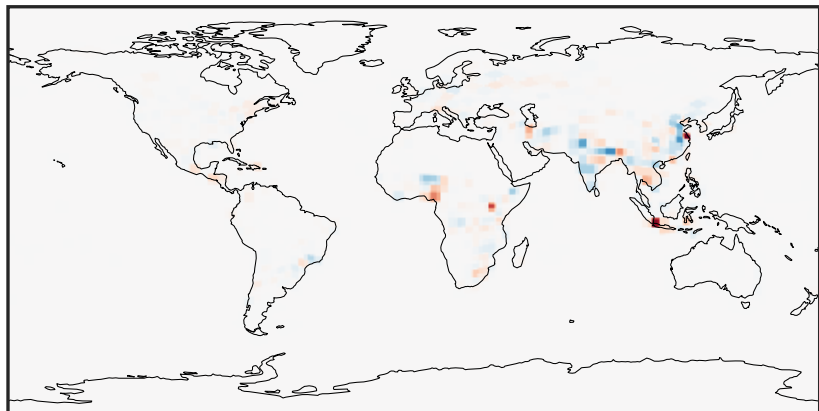
GCHP\_14.0.0 (Ref)  
c24



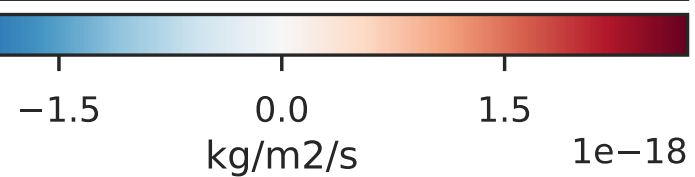
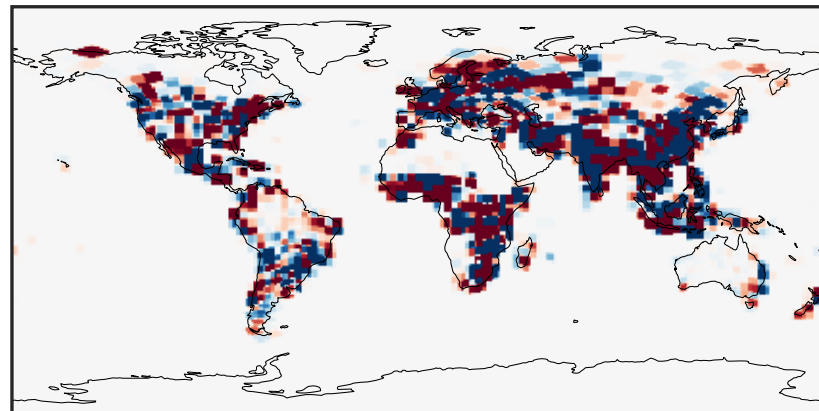
GCHP\_14.2.0 (Dev)  
c24



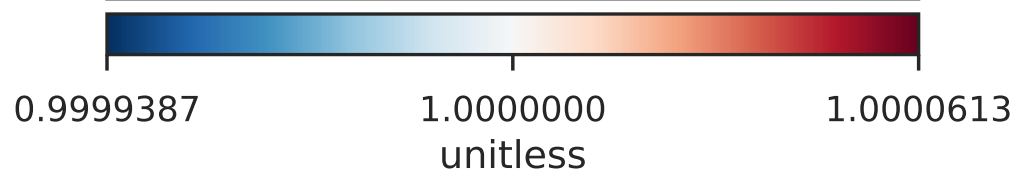
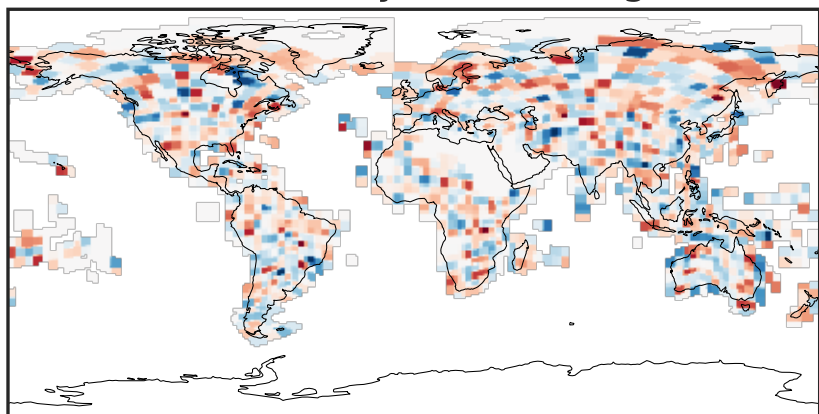
Difference (1x1.25)  
Dev - Ref, Dynamic Range



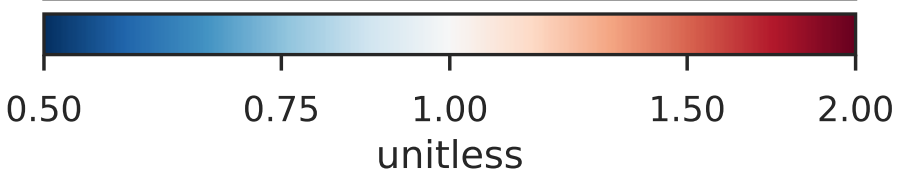
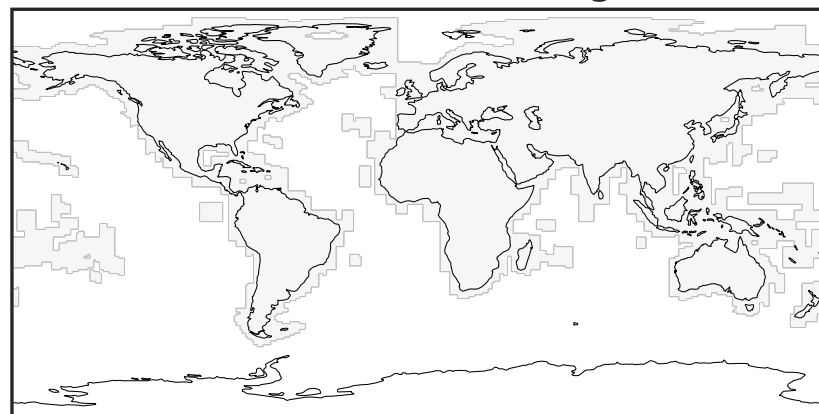
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

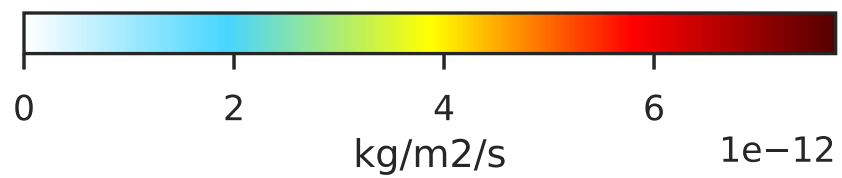
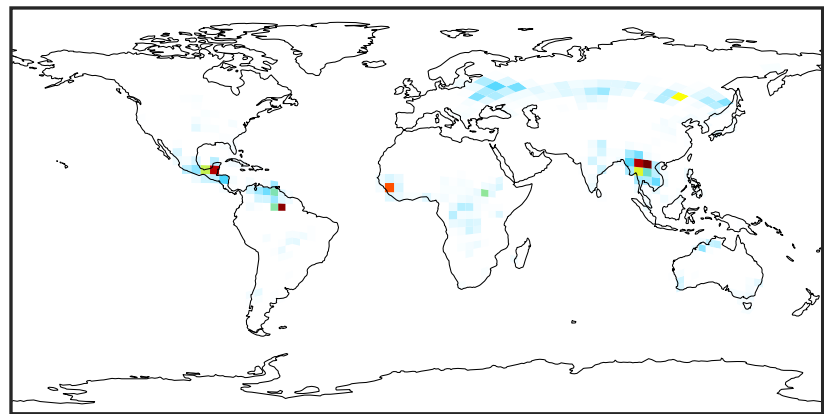


Ratio (1x1.25)  
Dev/Ref, Fixed Range

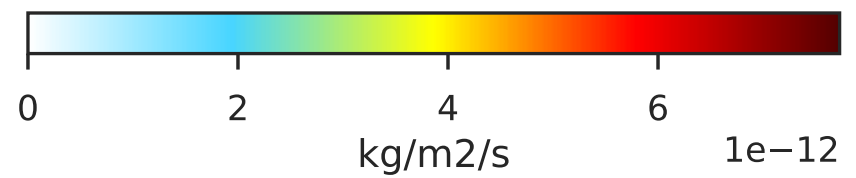
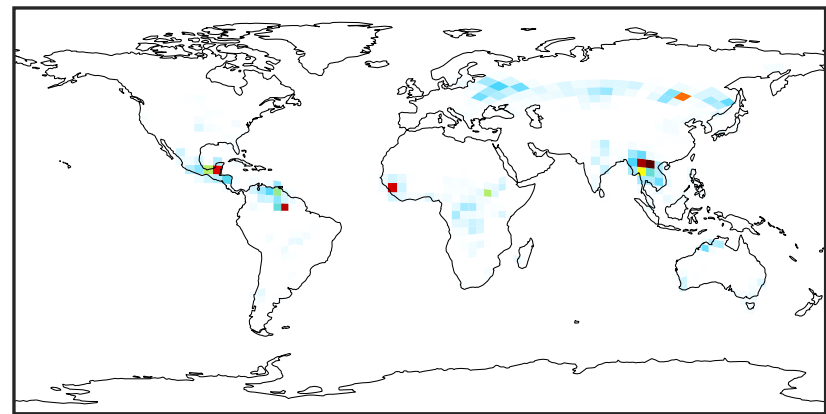


# EmisC2H2\_BioBurn (Apr2019)

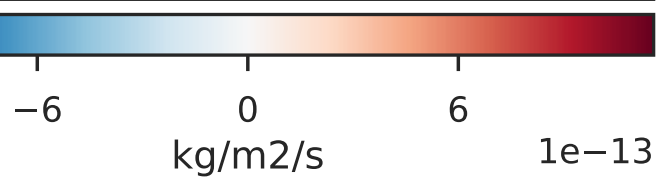
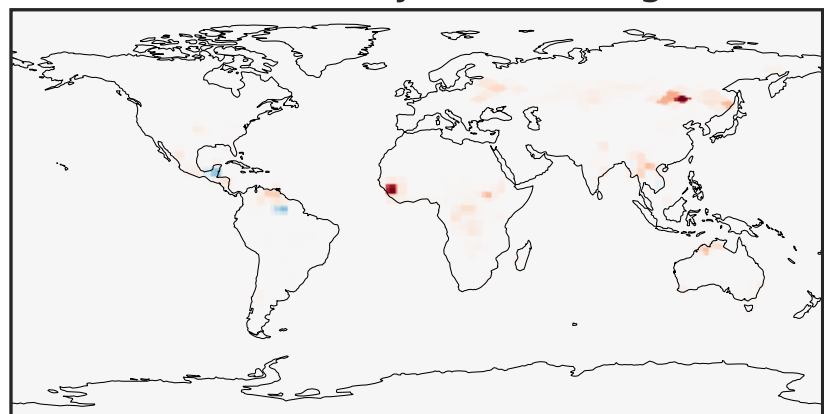
GCHP\_14.0.0 (Ref)  
c24



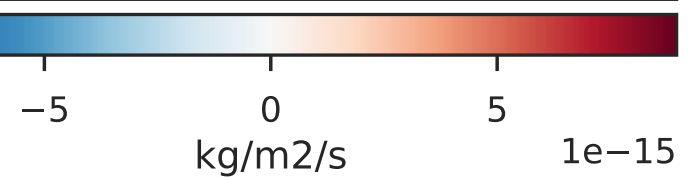
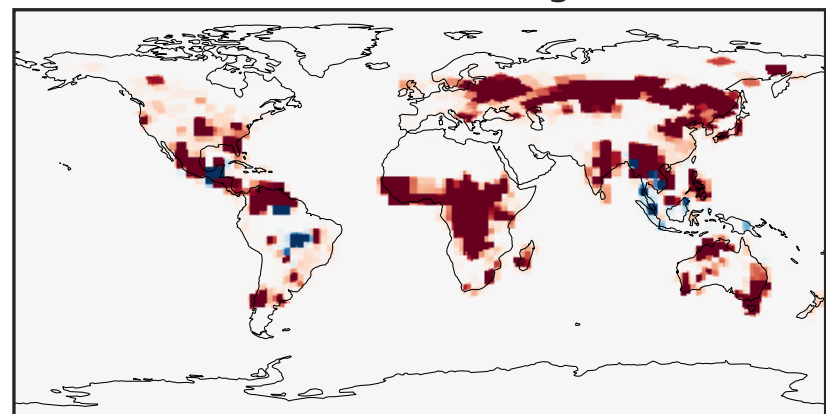
GCHP\_14.2.0 (Dev)  
c24



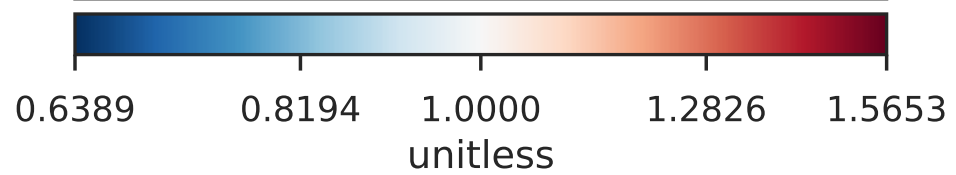
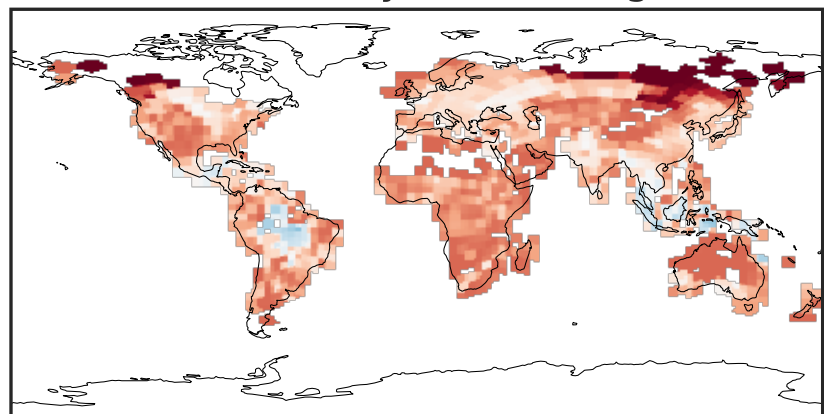
Difference (1x1.25)  
Dev - Ref, Dynamic Range



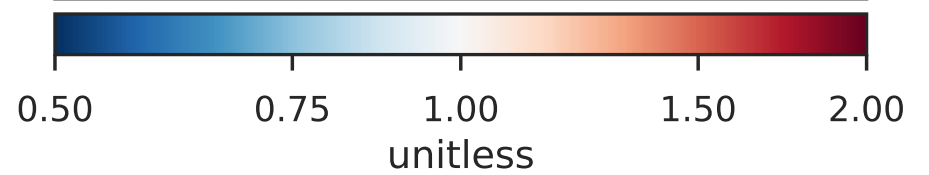
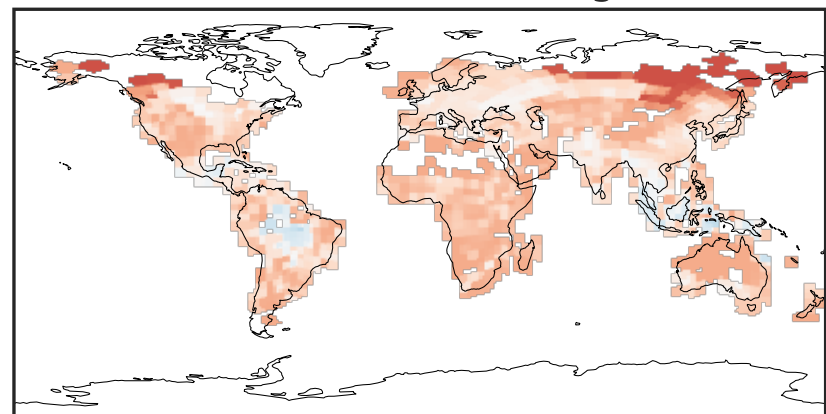
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



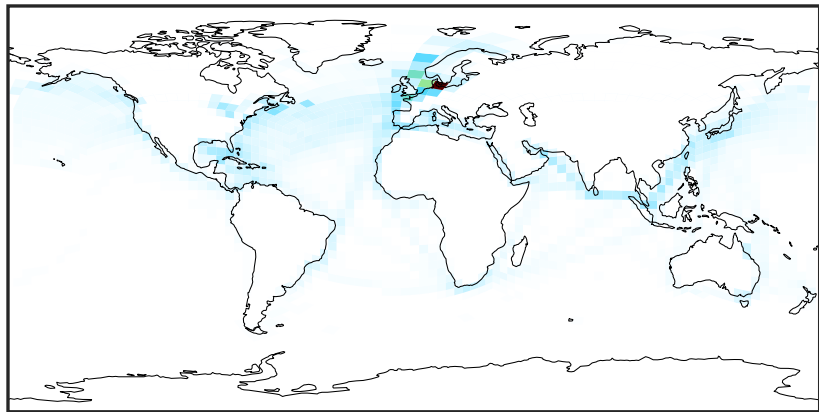
Ratio (1x1.25)  
Dev/Ref, Fixed Range





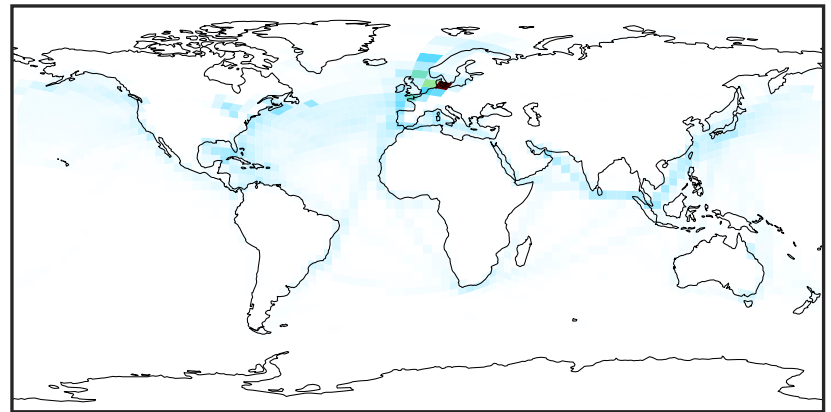
# EmisC2H2\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-14

GCHP\_14.2.0 (Dev)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-14

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



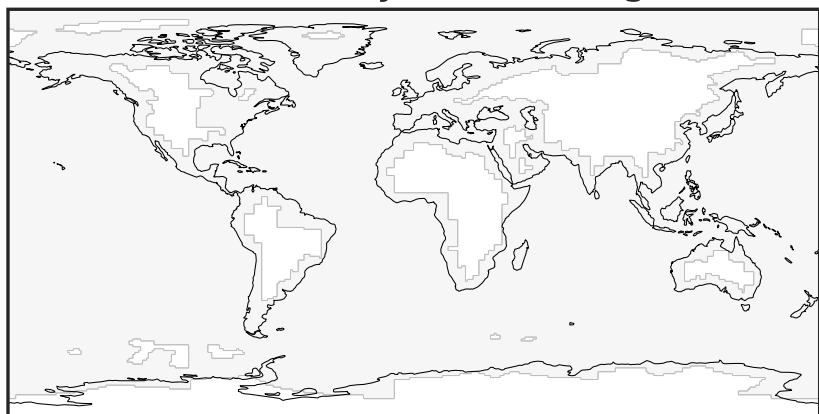
Zero throughout domain  
kg/m<sup>2</sup>/s

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



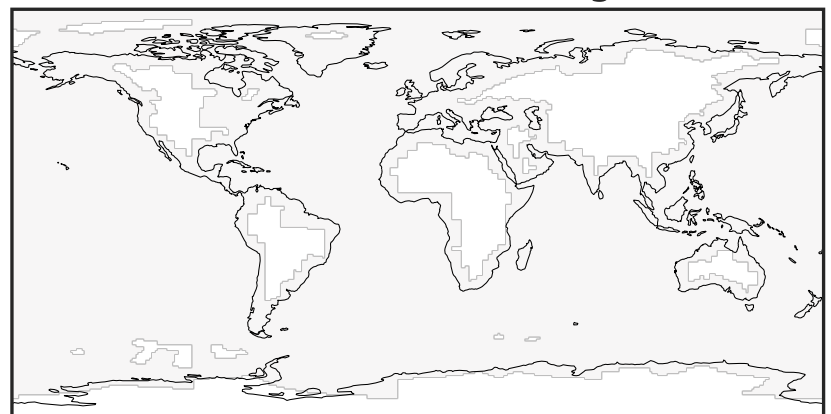
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

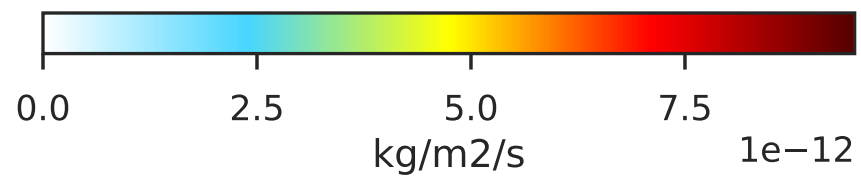
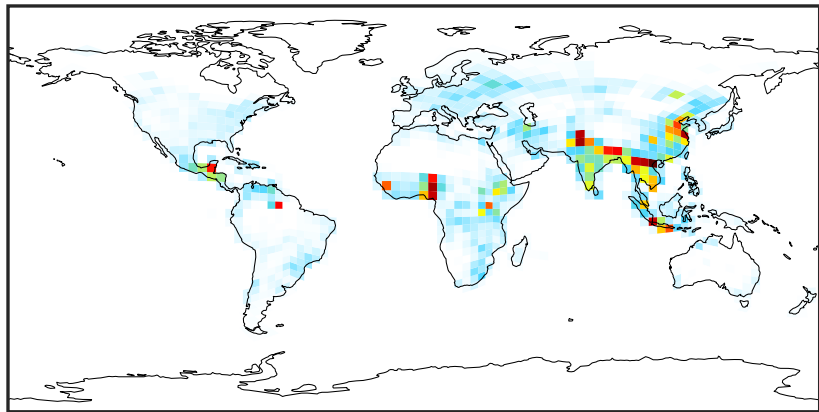
Ratio (1x1.25)  
Dev/Ref, Fixed Range



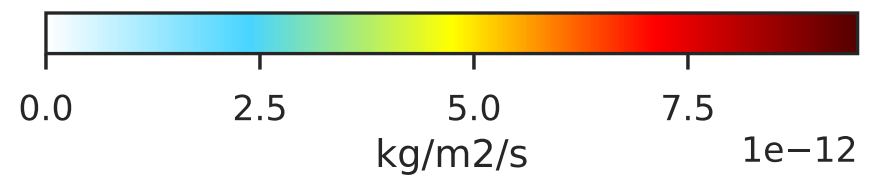
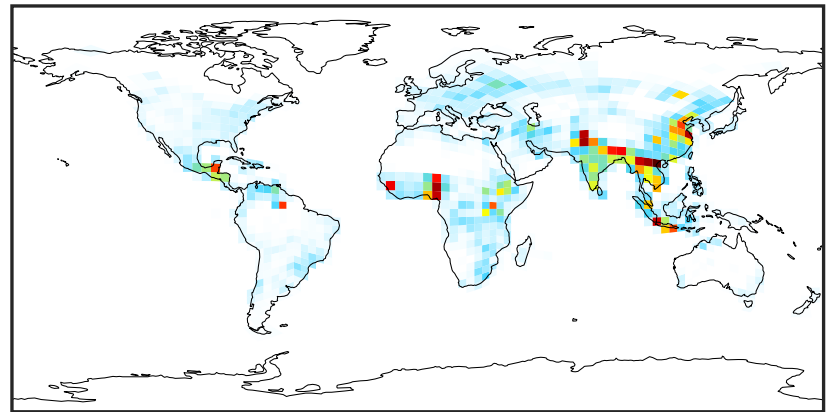
Ref and Dev equal throughout domain  
unitless

# EmisC2H2\_Total (Apr2019)

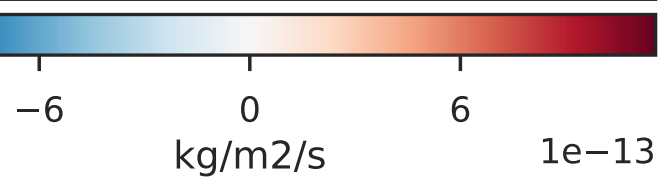
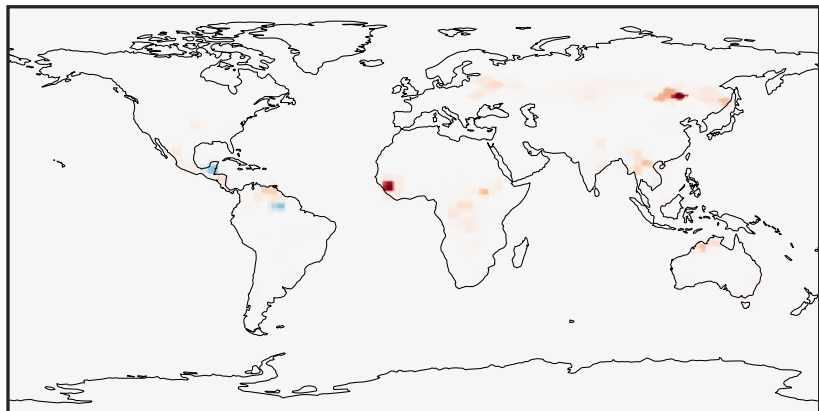
GCHP\_14.0.0 (Ref)  
c24



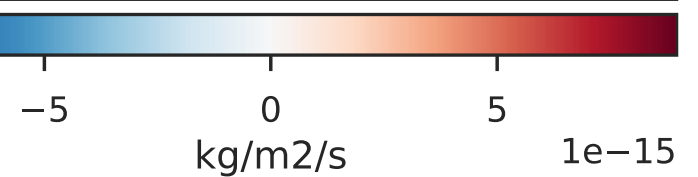
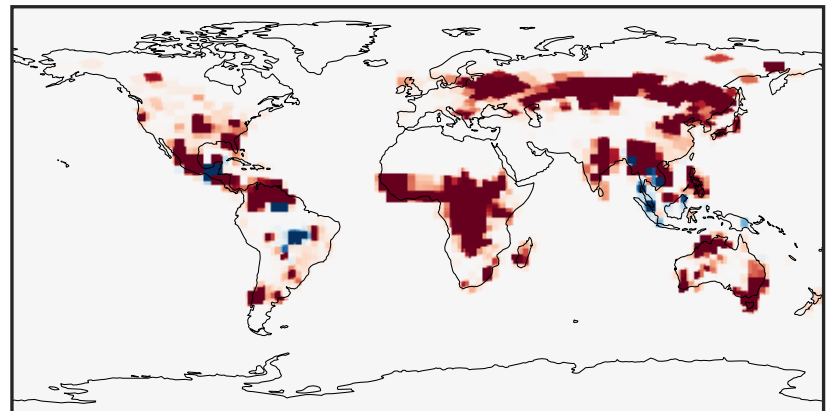
GCHP\_14.2.0 (Dev)  
c24



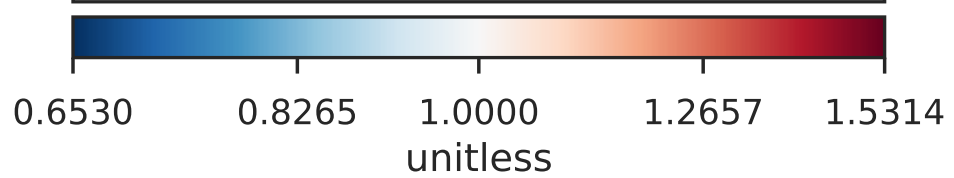
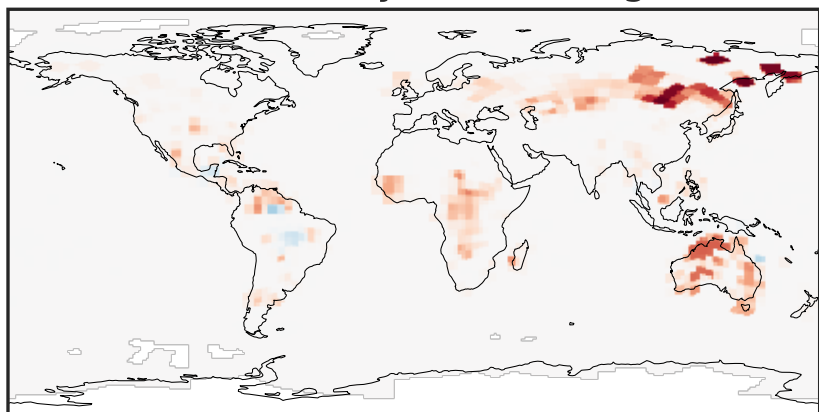
Difference (1x1.25)  
Dev - Ref, Dynamic Range



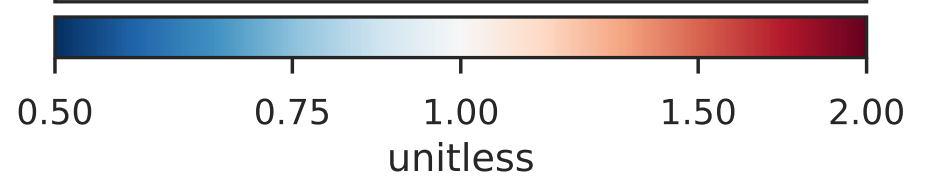
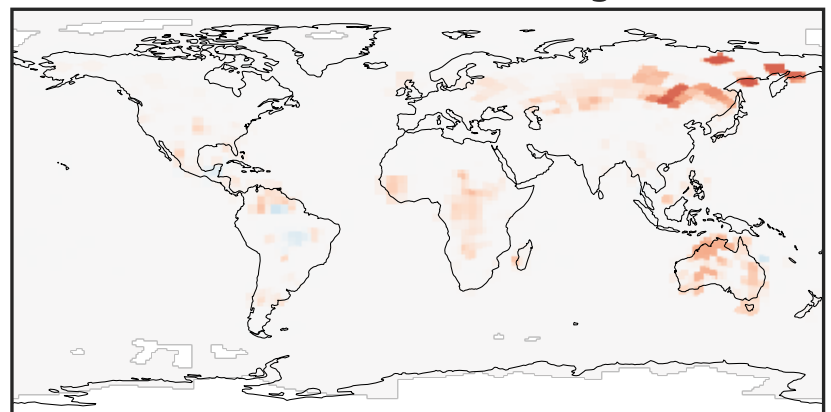
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

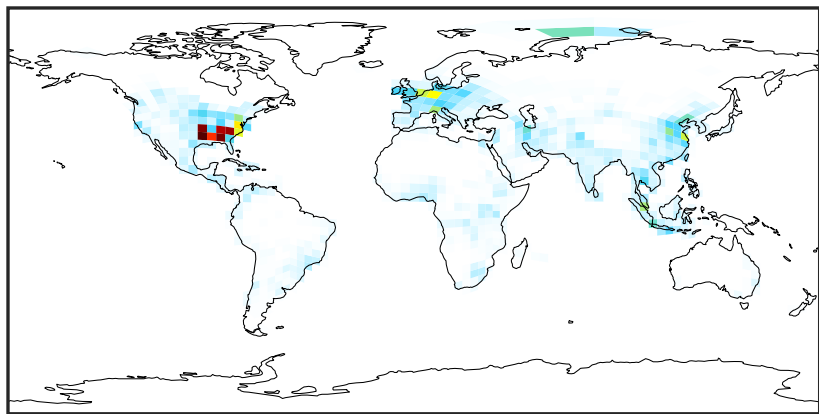


Ratio (1x1.25)  
Dev/Ref, Fixed Range



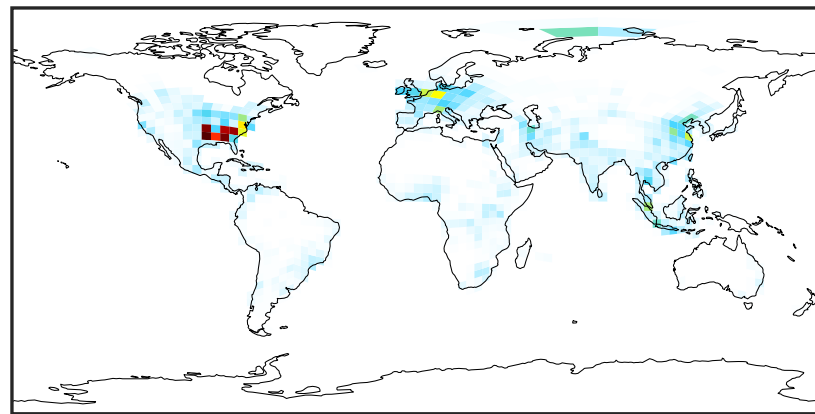
# EmisC2H4\_Anthro (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



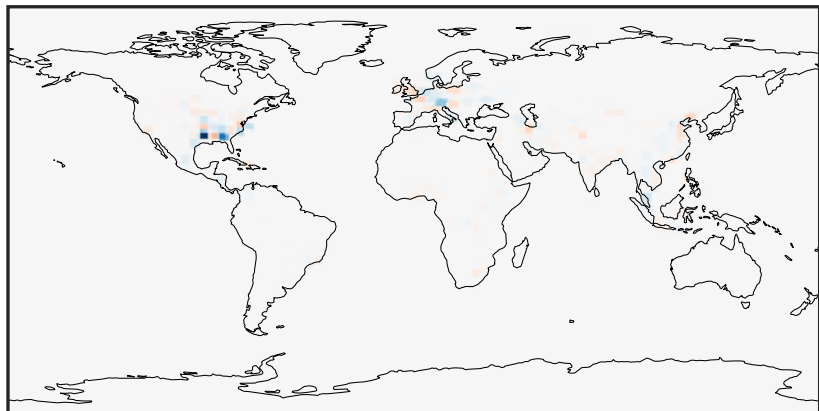
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



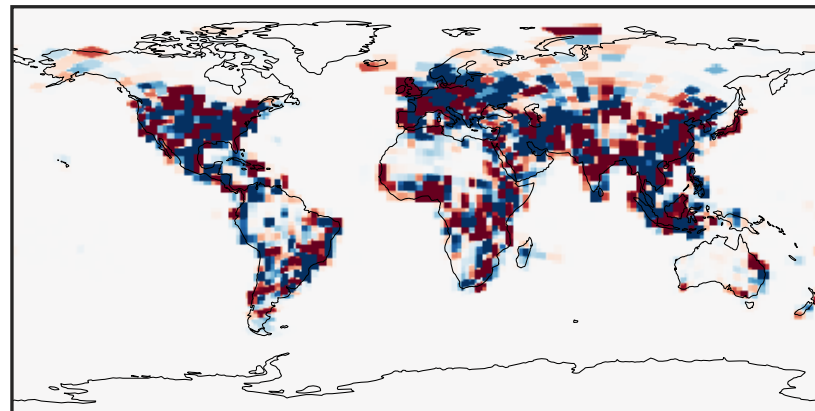
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

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



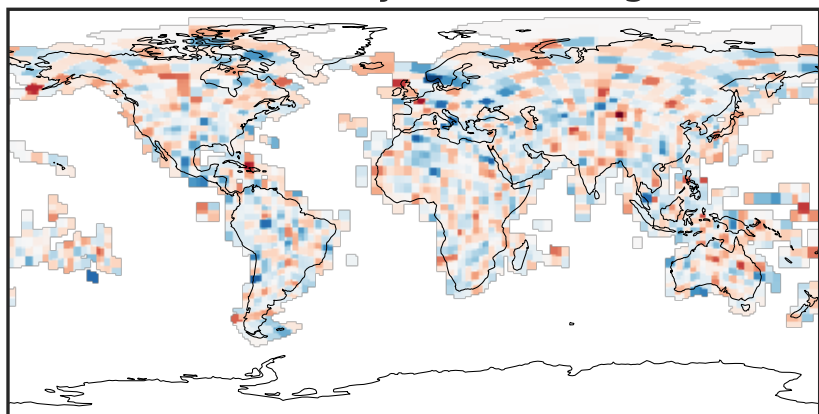
-8 0 8  
kg/m<sup>2</sup>/s 1e-16

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



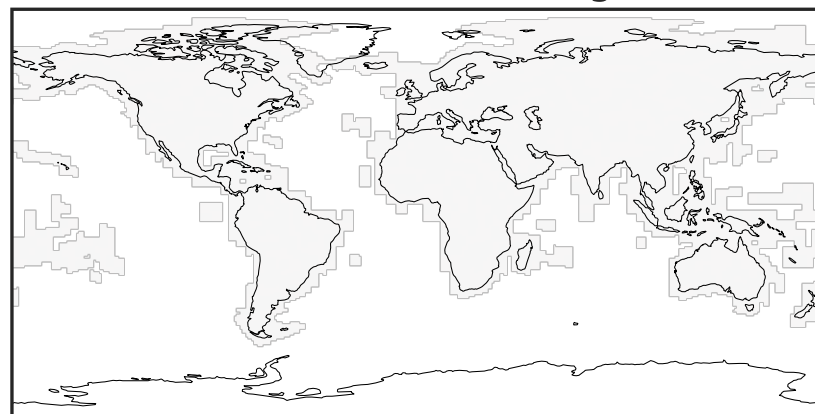
-4 0 4  
kg/m<sup>2</sup>/s 1e-18

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



0.9999296 1.000000 1.0000704  
unitless

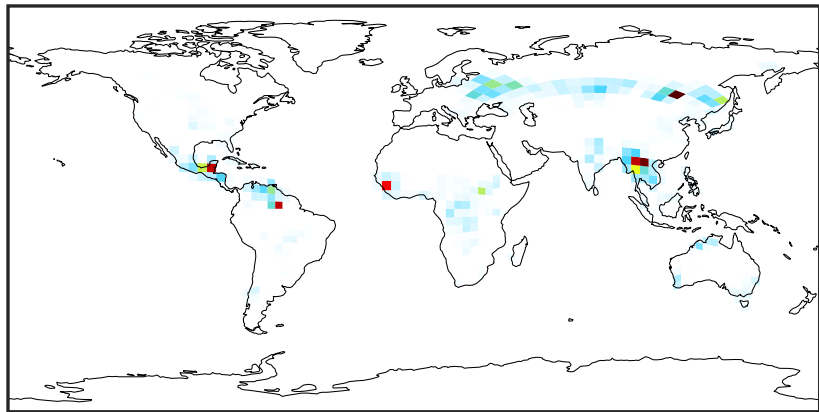
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

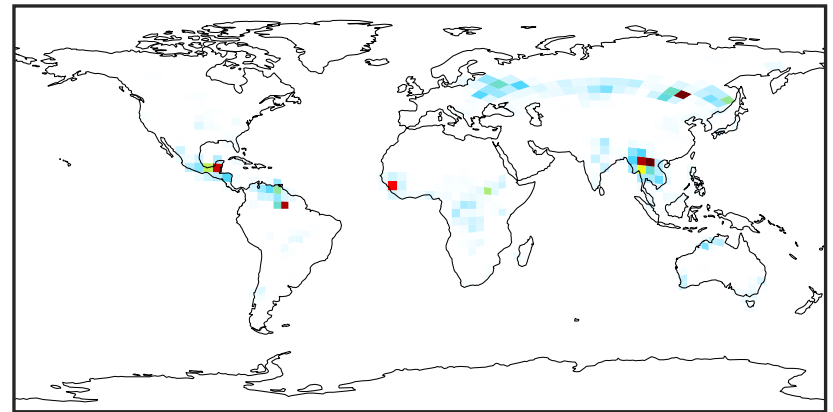
# EmisC2H4\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



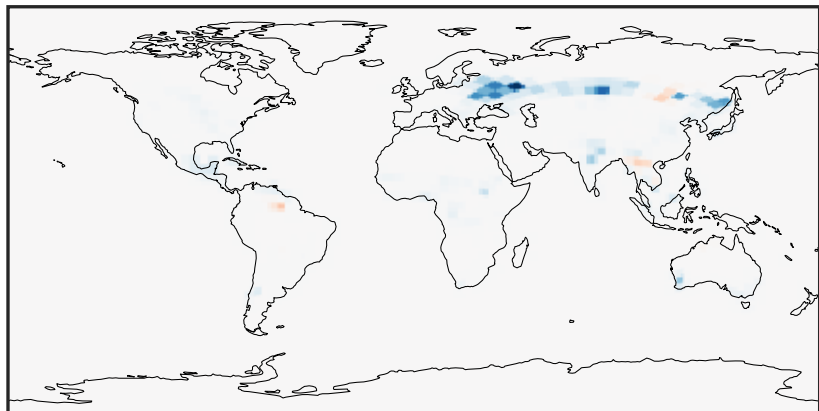
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



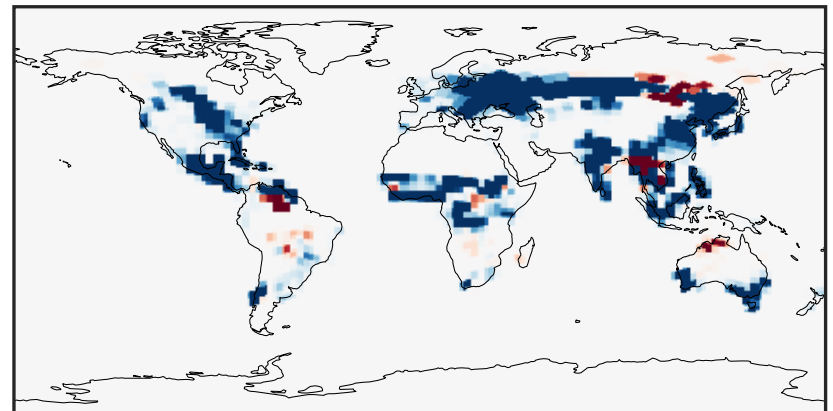
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

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



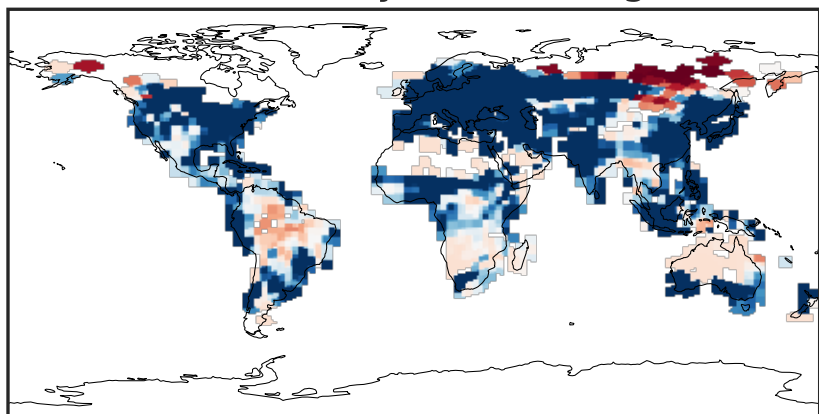
-1 0 1  
kg/m<sup>2</sup>/s 1e-12

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



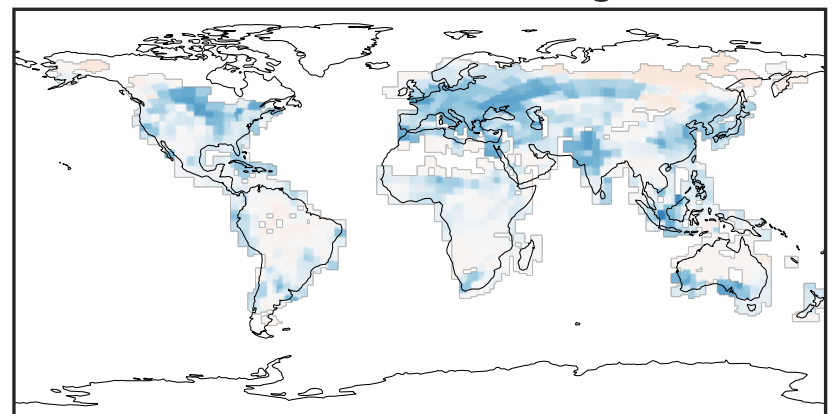
-1.5 0.0 1.5  
kg/m<sup>2</sup>/s 1e-14

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



0.9220 0.9610 1.0000 1.0423 1.0846  
unitless

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

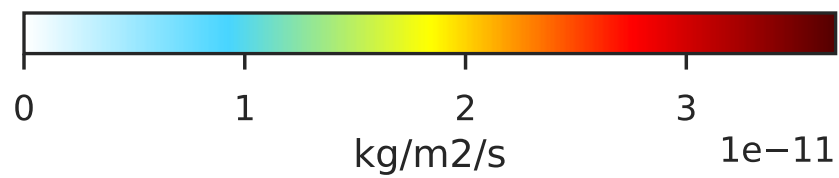
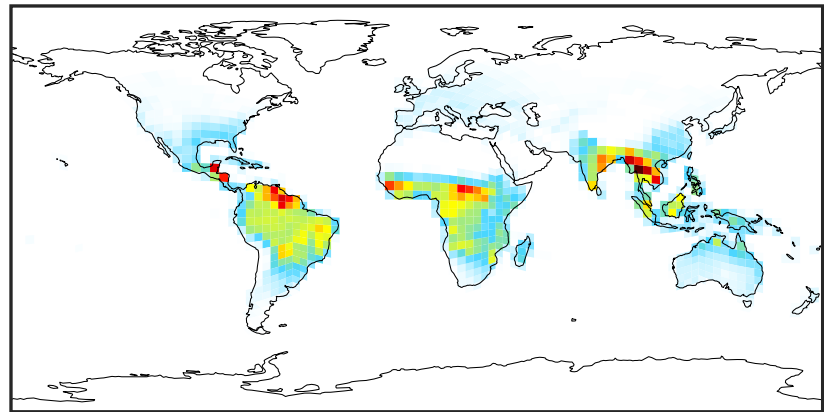


0.50 0.75 1.00 1.50 2.00  
unitless

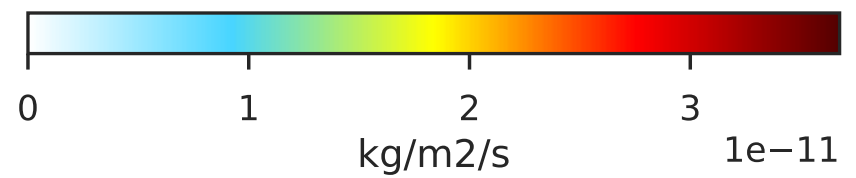
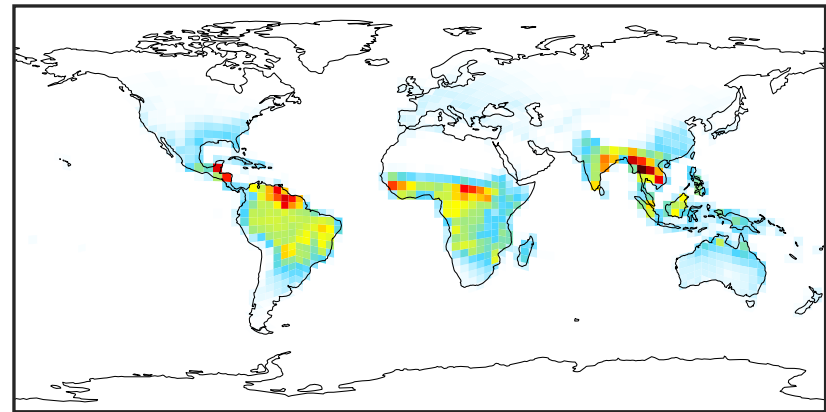


# EmisC2H4\_Biogenic (Apr2019)

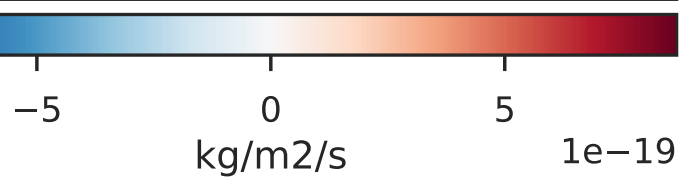
GCHP\_14.0.0 (Ref)  
c24



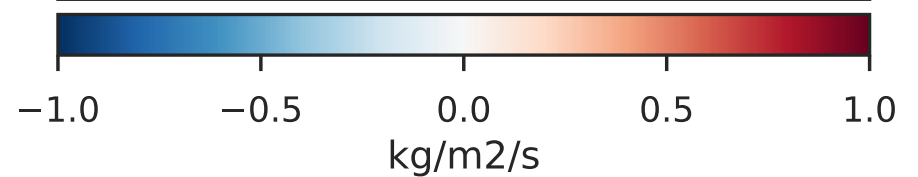
GCHP\_14.2.0 (Dev)  
c24



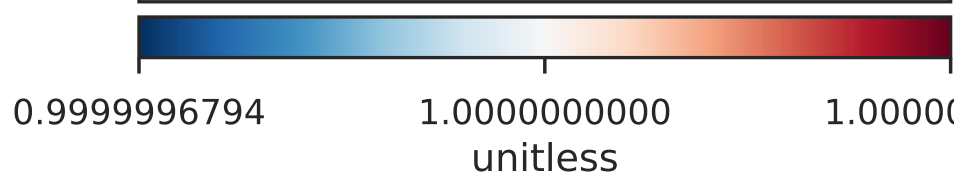
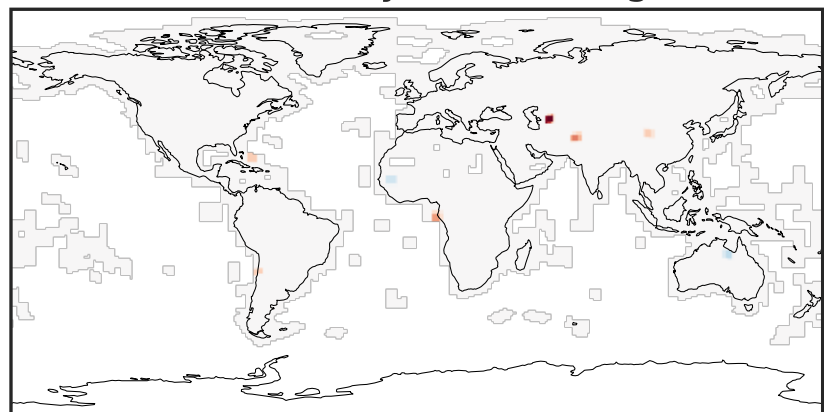
Difference (1x1.25)  
Dev - Ref, Dynamic Range



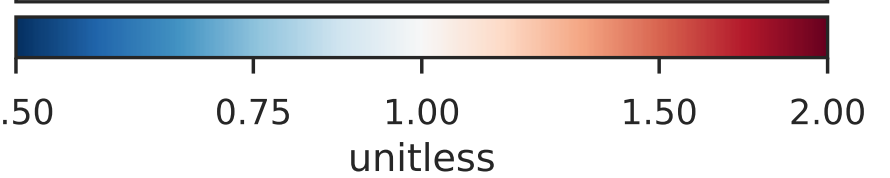
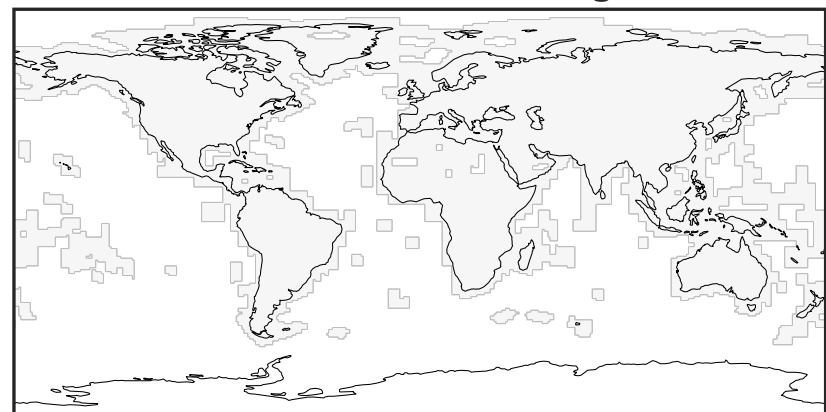
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

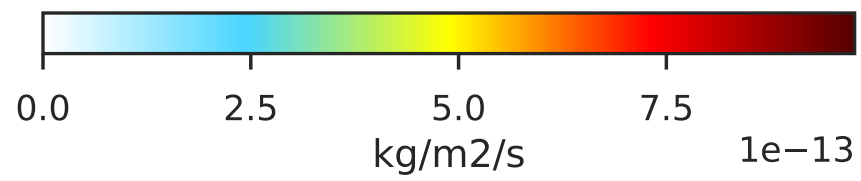
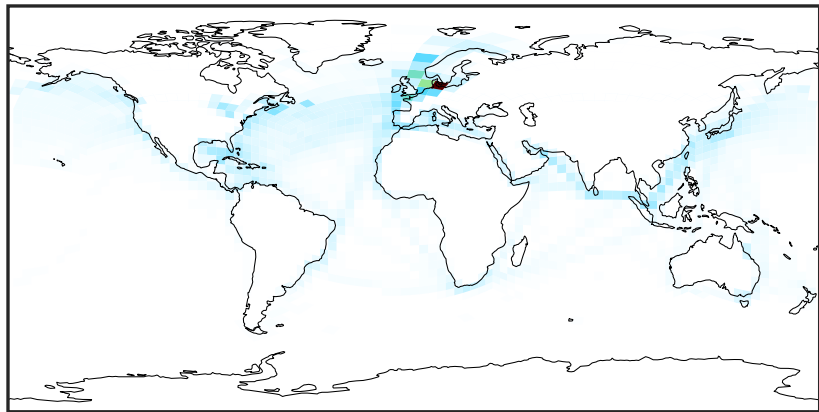


Ratio (1x1.25)  
Dev/Ref, Fixed Range

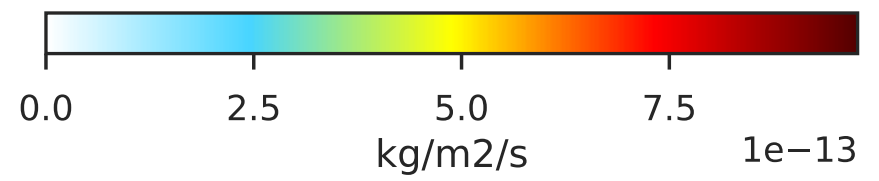
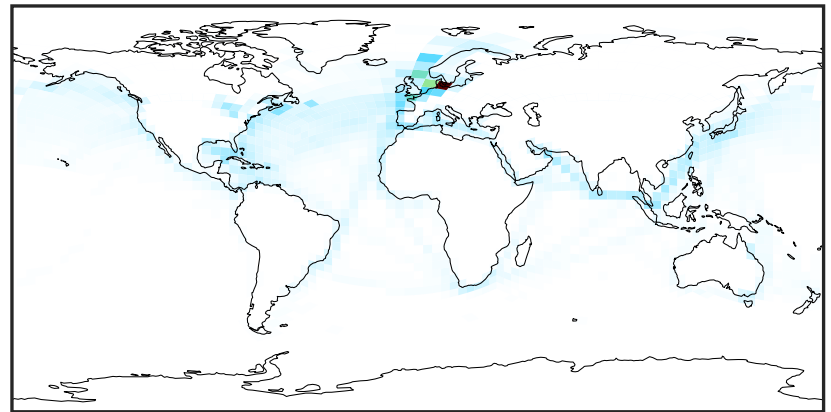


# EmisC2H4\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



GCHP\_14.2.0 (Dev)  
c24

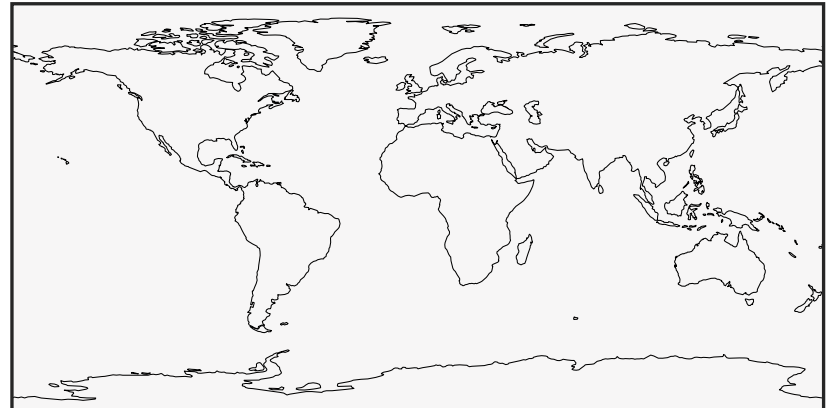


Difference (1x1.25)  
Dev - Ref, Dynamic Range



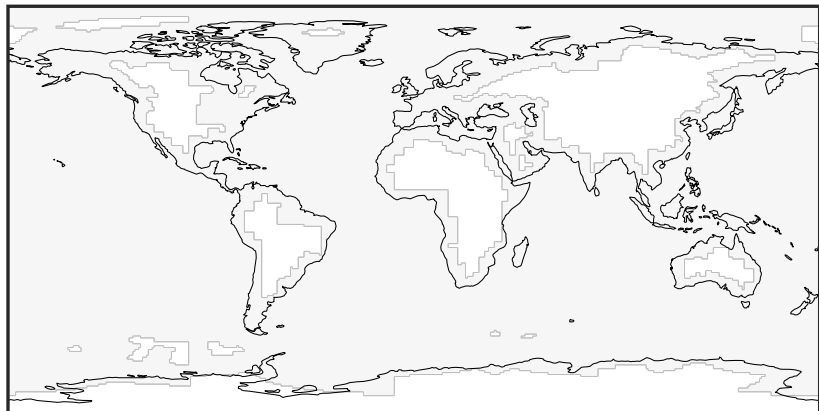
Zero throughout domain  
kg/m2/s

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



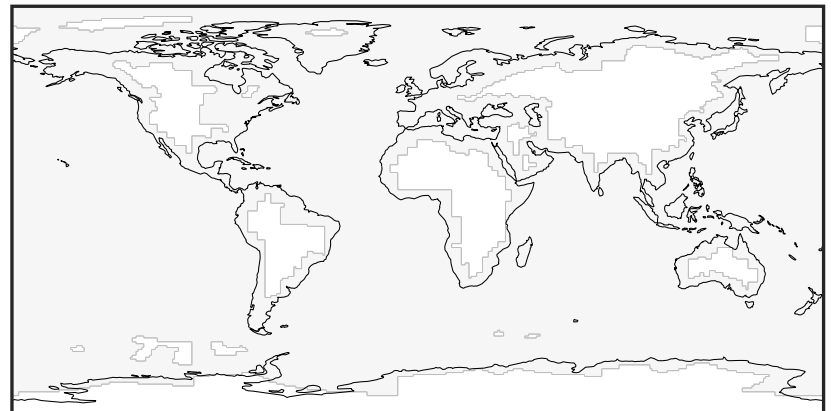
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

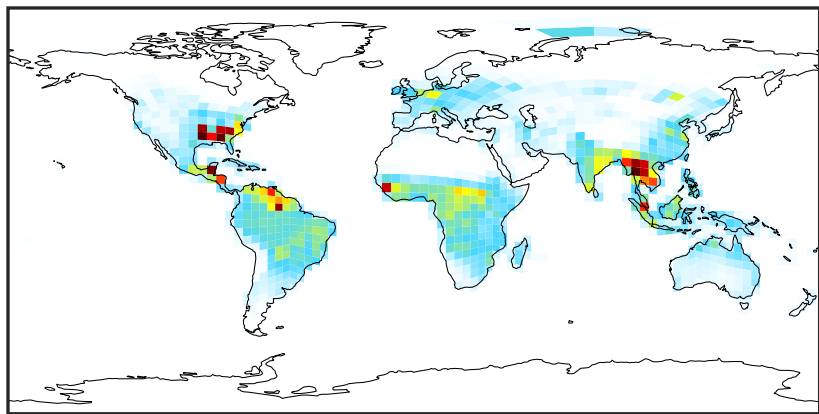
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

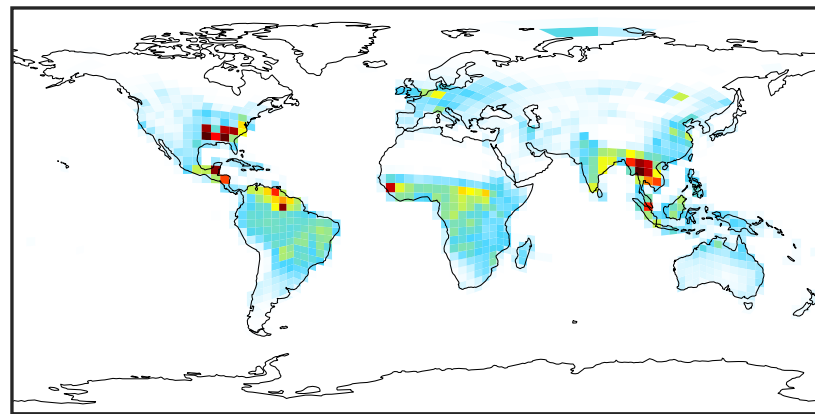
# EmisC2H4\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



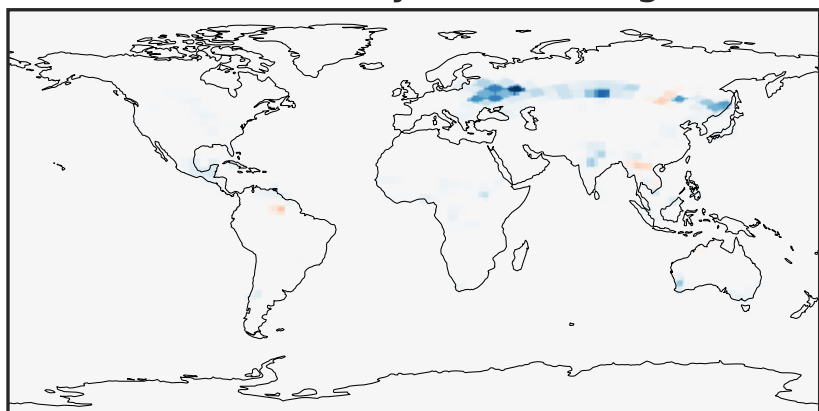
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



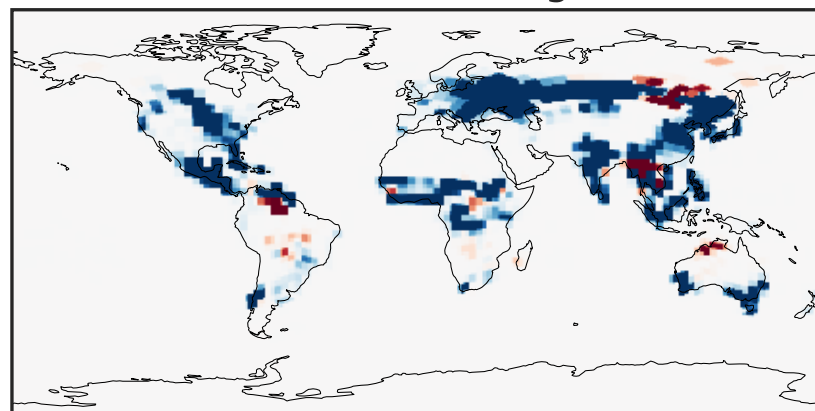
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-11

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



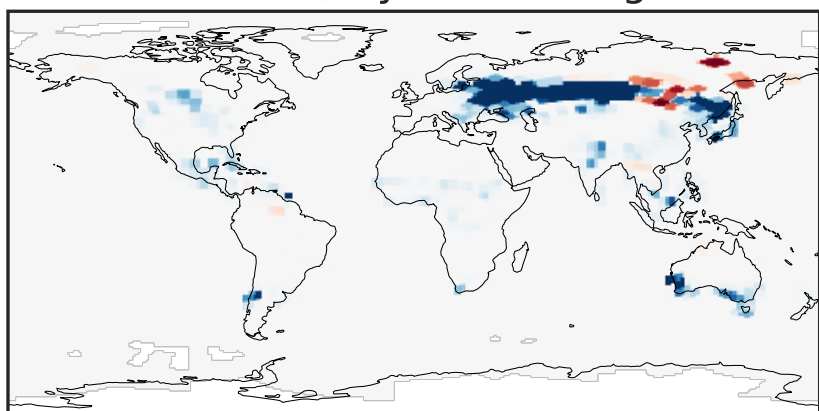
-1 0 1  
kg/m<sup>2</sup>/s 1e-12

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



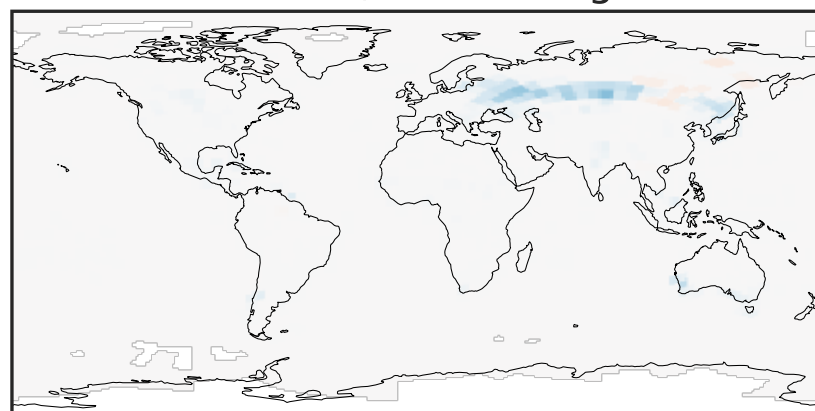
-1.5 0.0 1.5  
kg/m<sup>2</sup>/s 1e-14

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



0.9360 0.9680 1.0000 1.0342 1.0684  
unitless

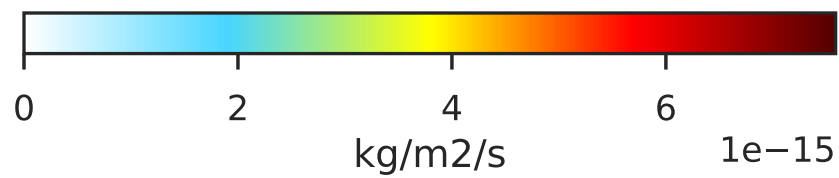
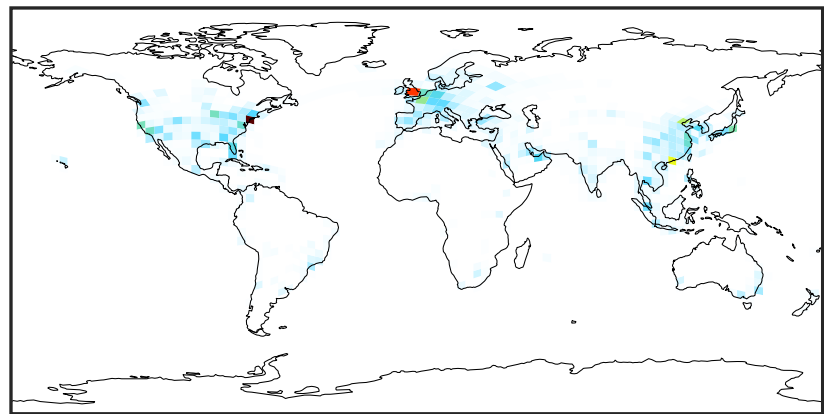
Ratio (1x1.25)  
Dev/Ref, Fixed Range



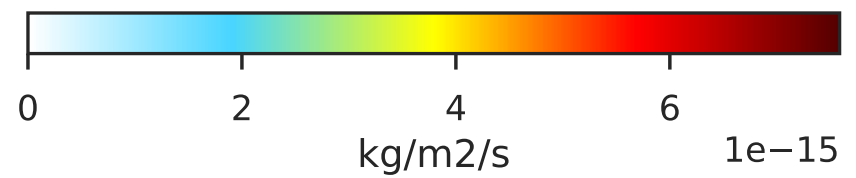
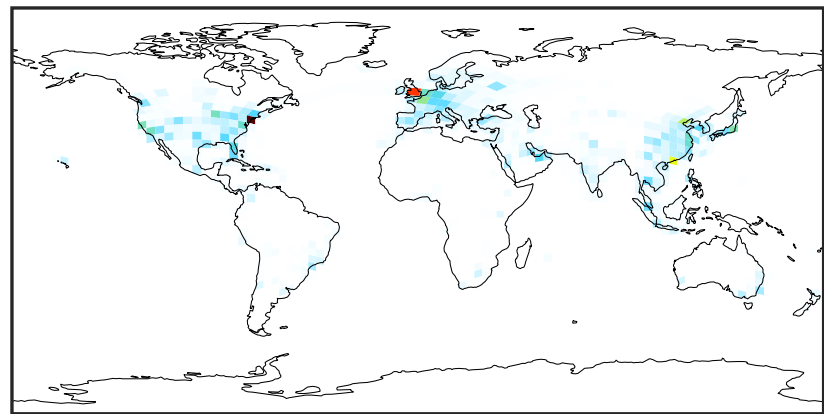
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisC2H6\_Aircraft (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



GCHP\_14.2.0 (Dev)  
c24

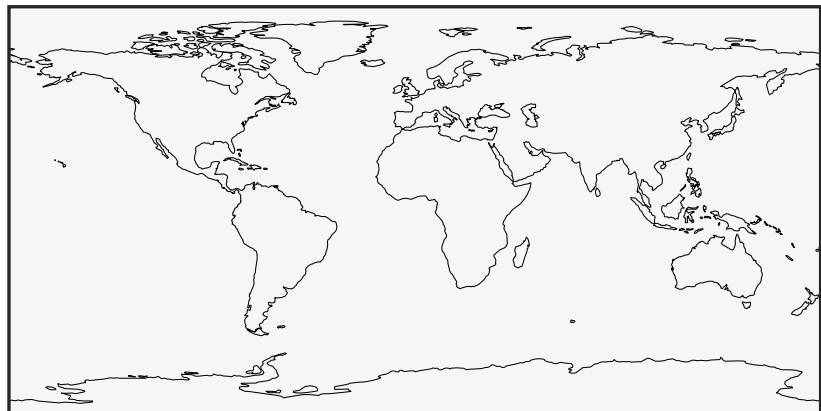


Difference (1x1.25)  
Dev - Ref, Dynamic Range



Zero throughout domain  
kg/m2/s

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



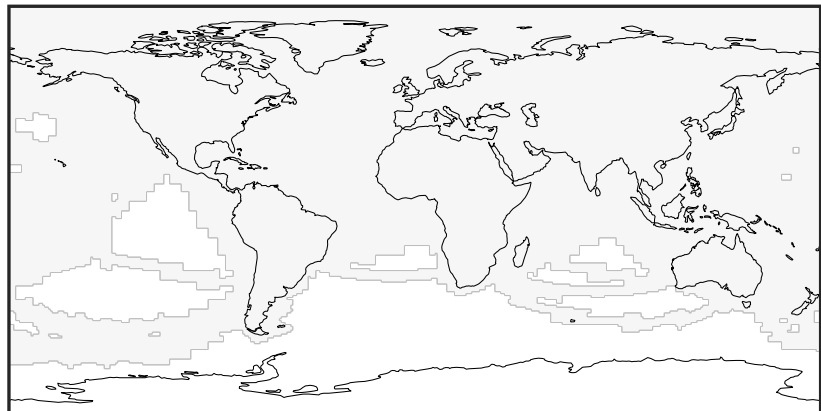
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

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

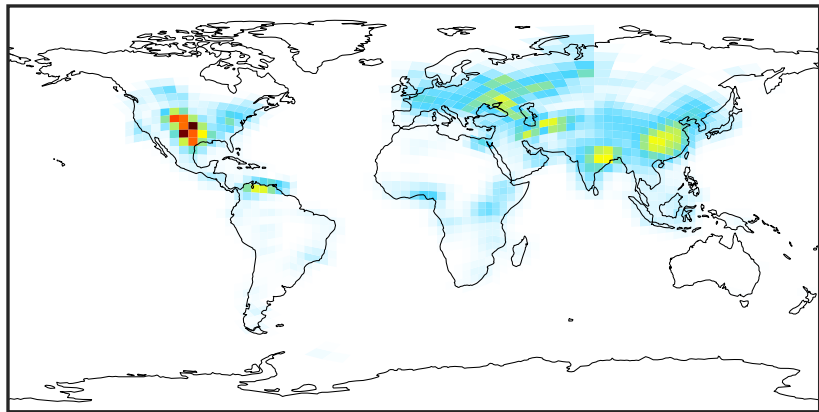


Ref and Dev equal throughout domain  
unitless



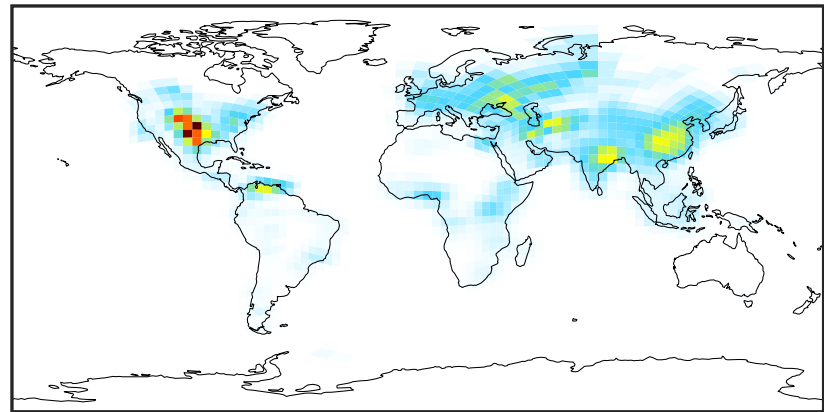
# EmisC2H6\_Anthro (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

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



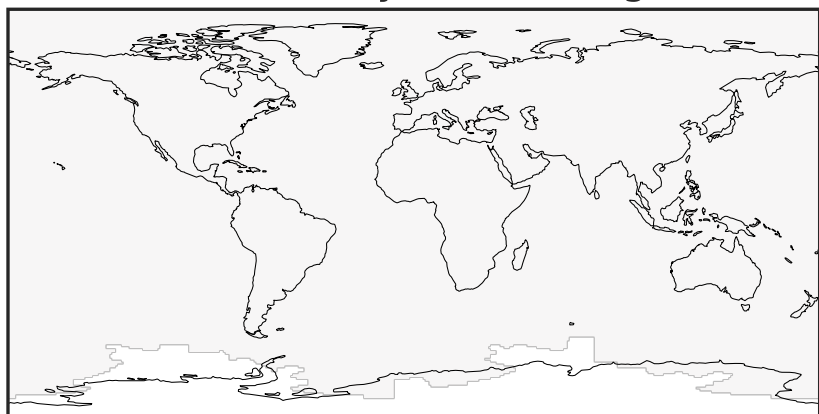
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

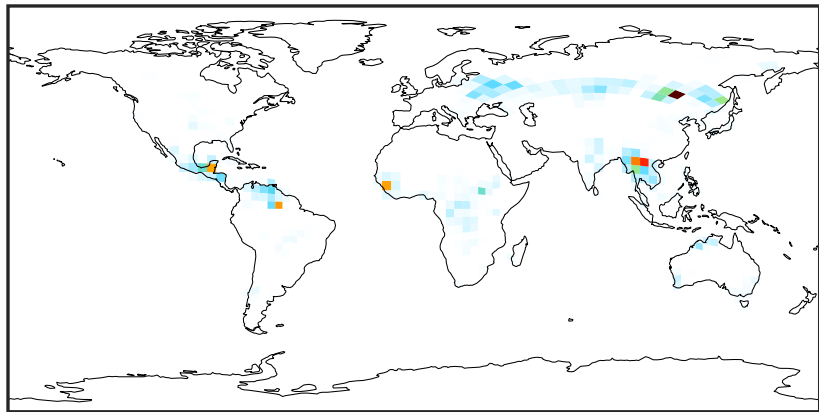
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

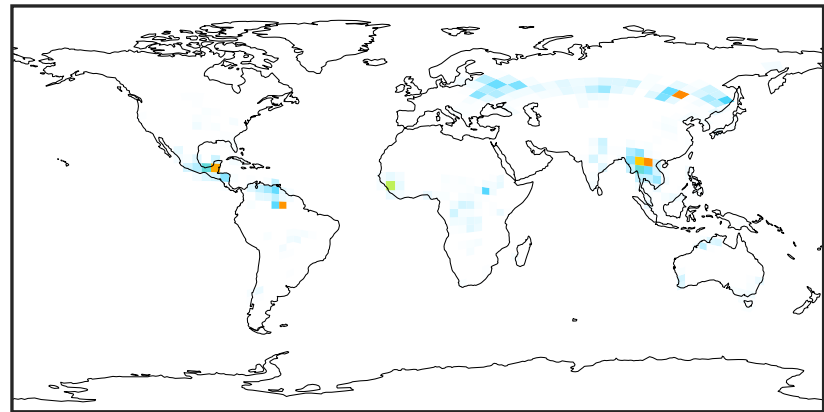
# EmisC2H6\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



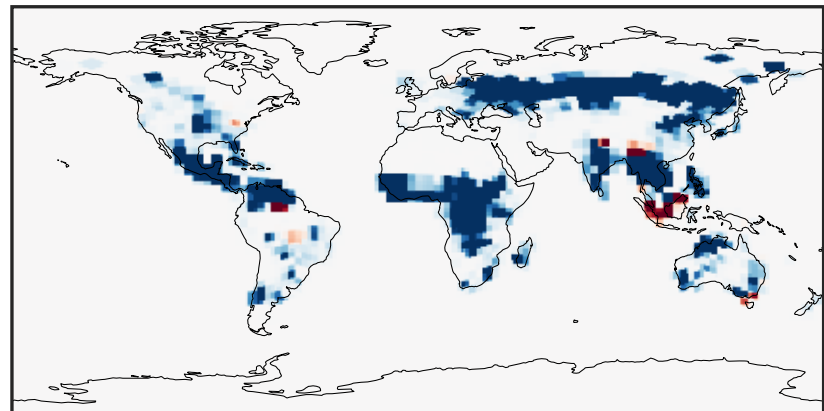
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

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



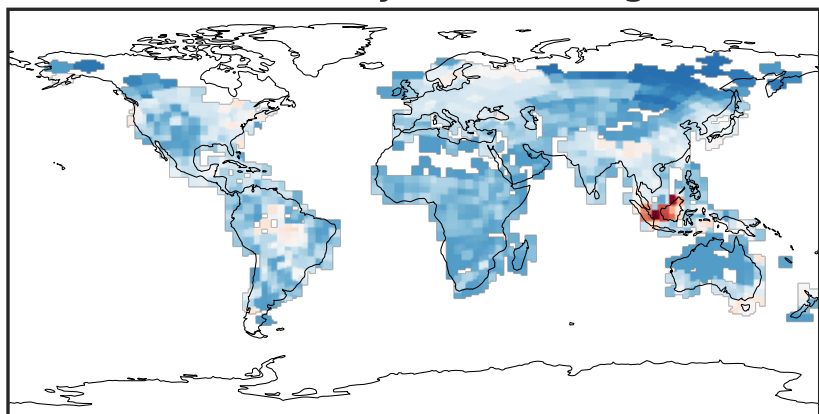
-5 0 5  
kg/m<sup>2</sup>/s 1e-12

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



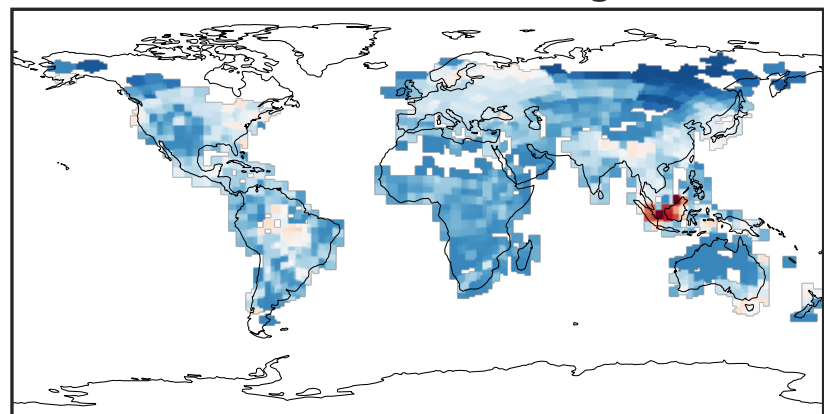
-2.5 0.0 2.5  
kg/m<sup>2</sup>/s 1e-14

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



0.445 0.722 1.000 1.624 2.248  
unitless

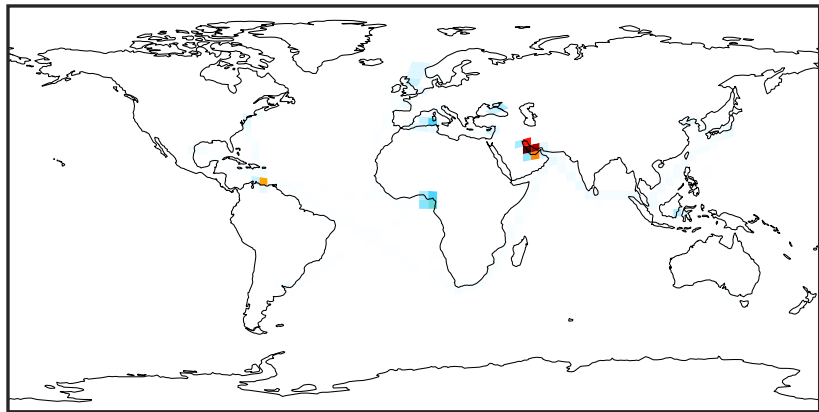
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

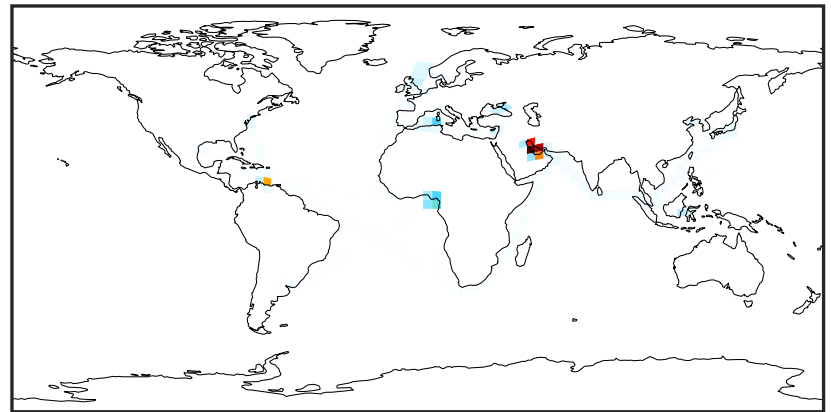
# EmisC2H6\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s  $1e-12$

GCHP\_14.2.0 (Dev)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s  $1e-12$

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



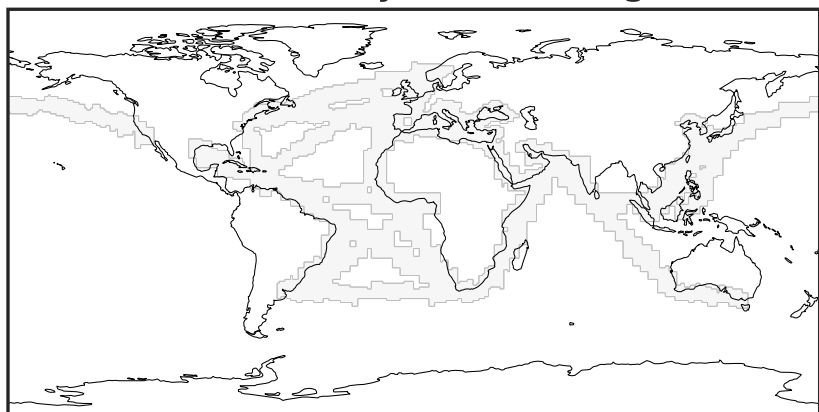
Zero throughout domain  
kg/m<sup>2</sup>/s

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



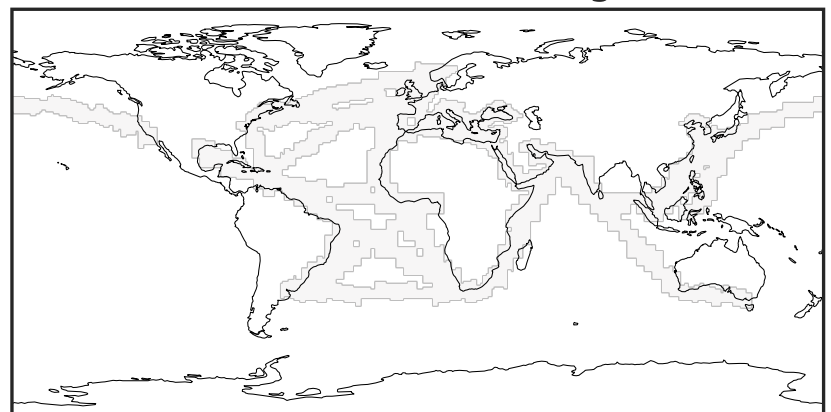
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

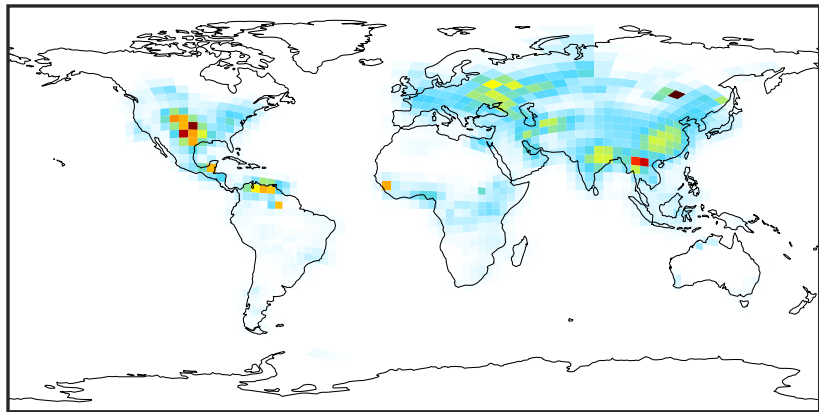
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

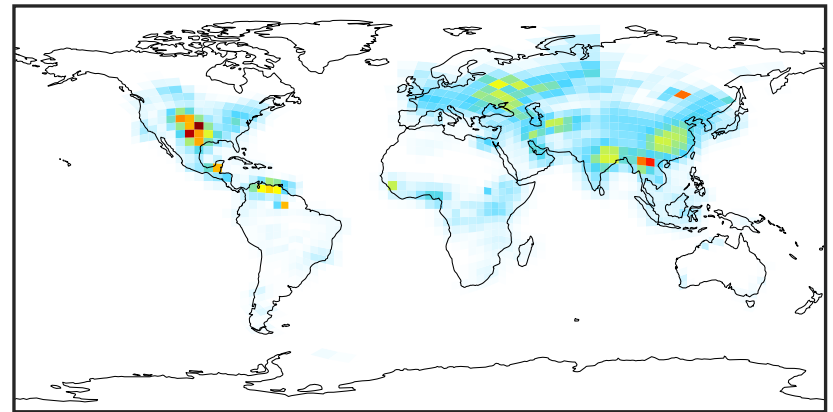
# EmisC2H6\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m2/s  $1e-11$

GCHP\_14.2.0 (Dev)  
c24



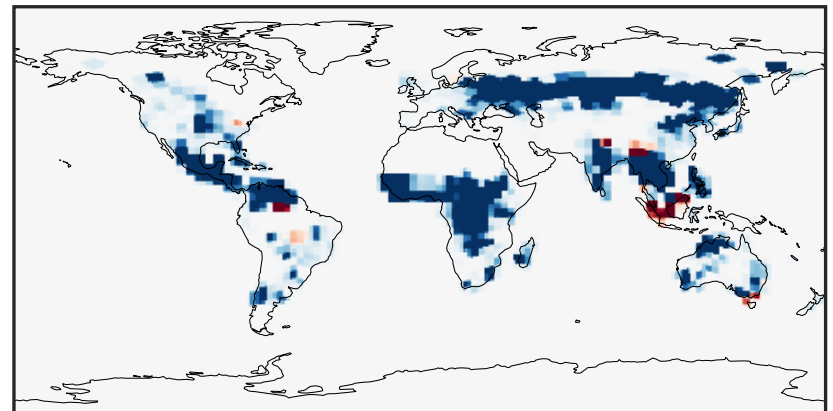
0.0 0.8 1.6 2.4  
kg/m2/s  $1e-11$

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



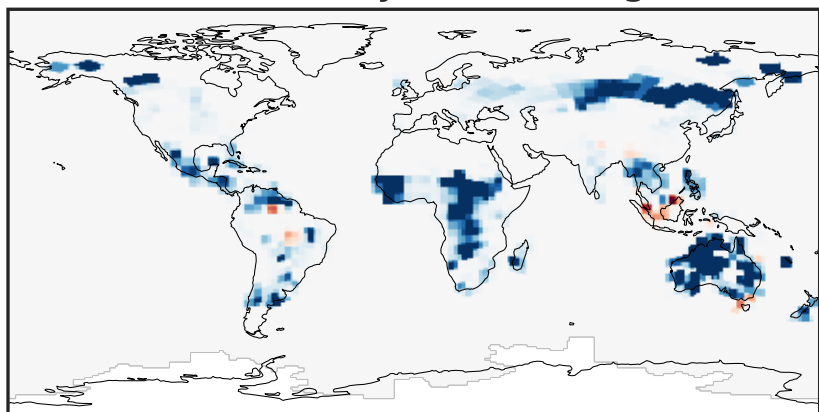
-5 0 5  
kg/m2/s  $1e-12$

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



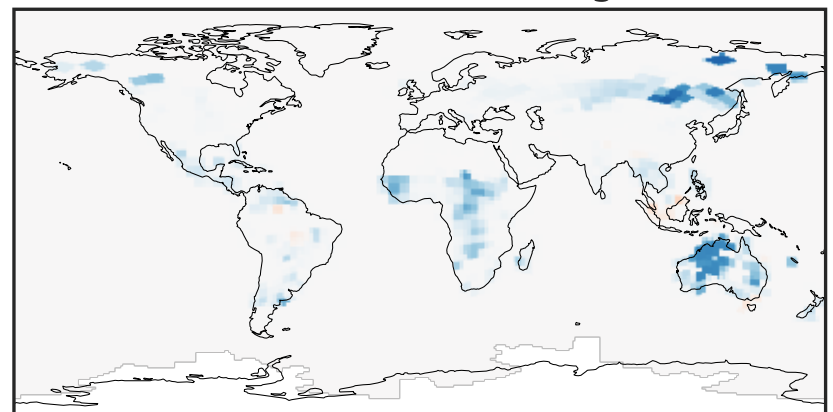
-2.5 0.0 2.5  
kg/m2/s  $1e-14$

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



0.8632 0.9316 1.0000 1.0792 1.1585  
unitless

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

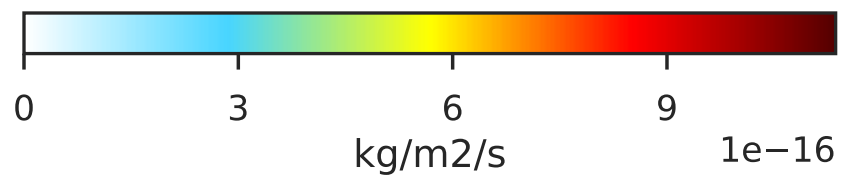
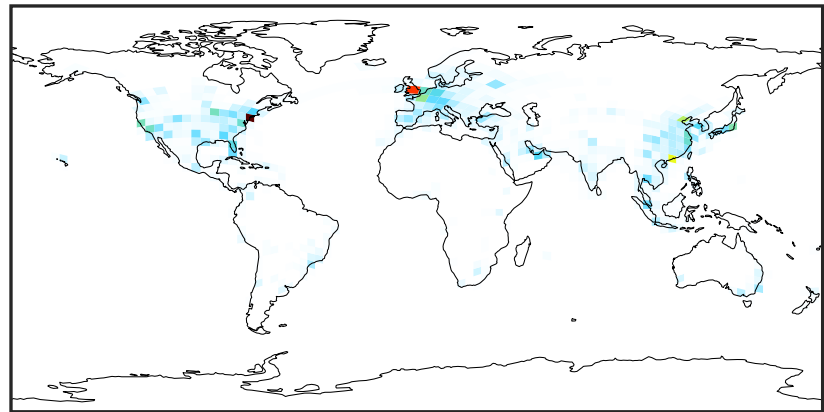


0.50 0.75 1.00 1.50 2.00  
unitless

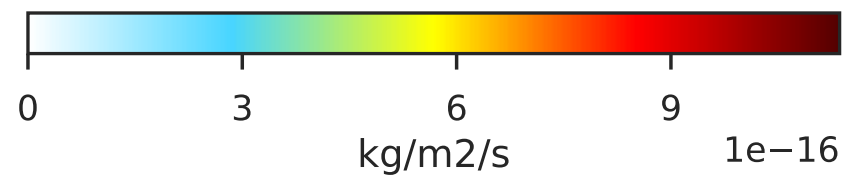
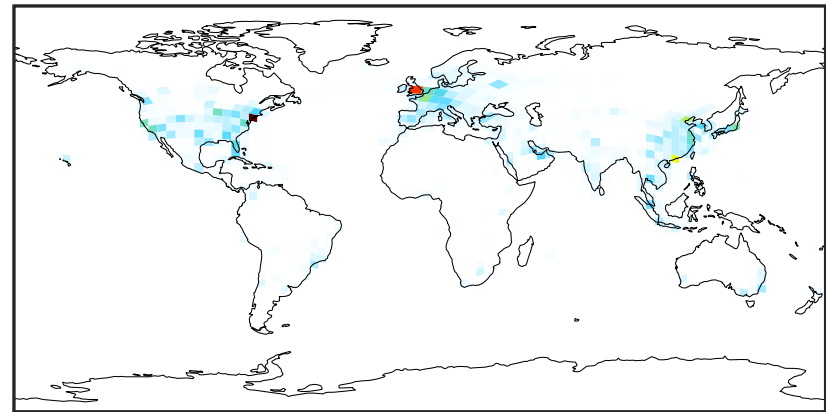


# EmisC3H8\_Aircraft (Apr2019)

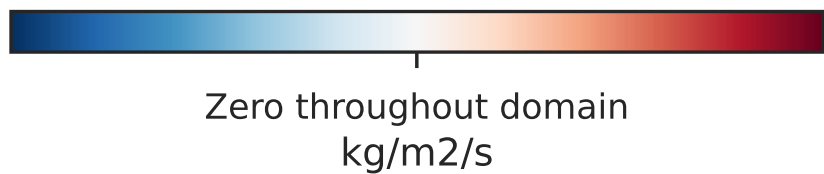
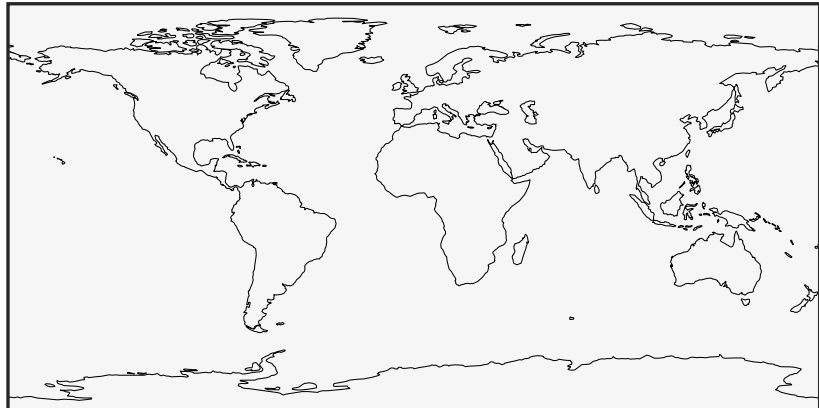
GCHP\_14.0.0 (Ref)  
c24



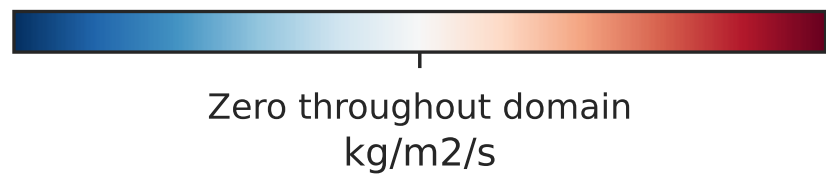
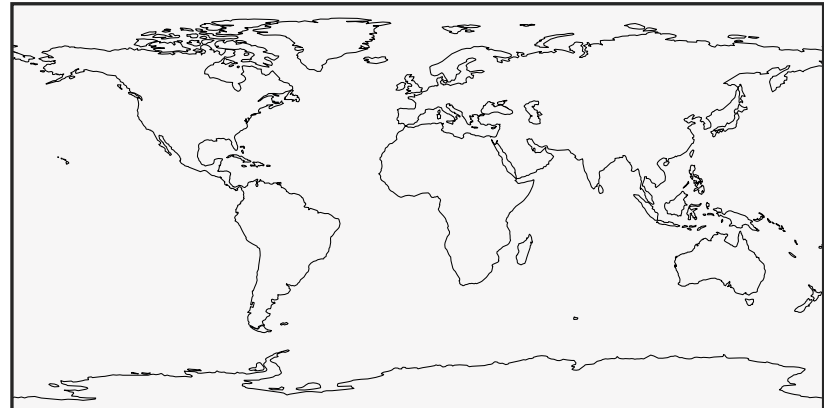
GCHP\_14.2.0 (Dev)  
c24



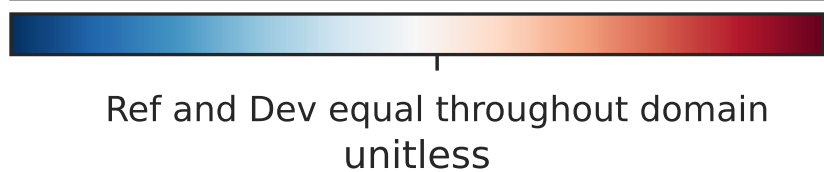
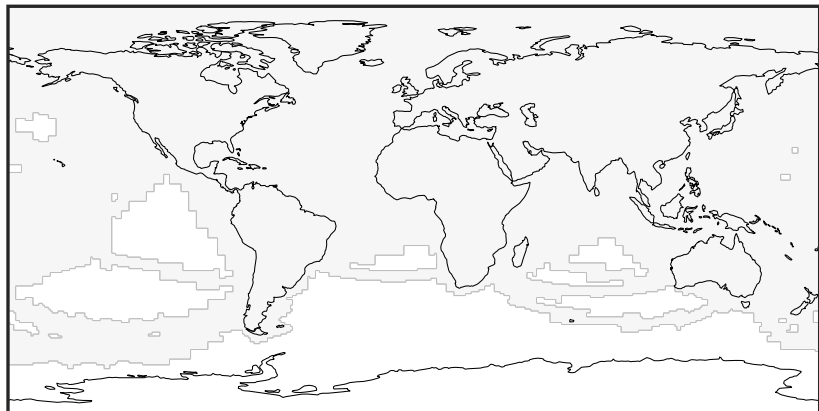
Difference (1x1.25)  
Dev - Ref, Dynamic Range



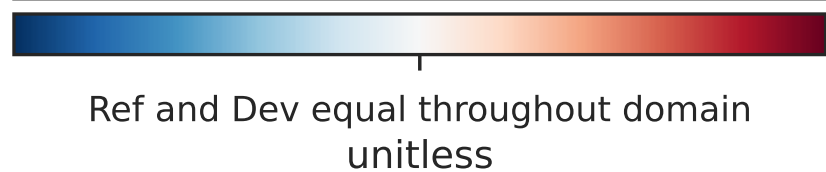
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

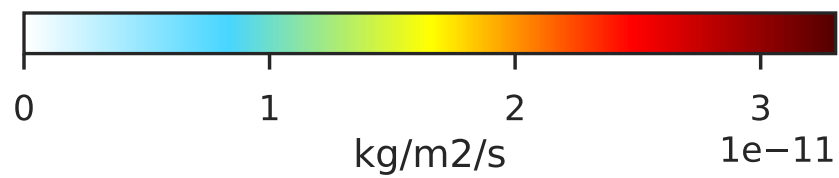
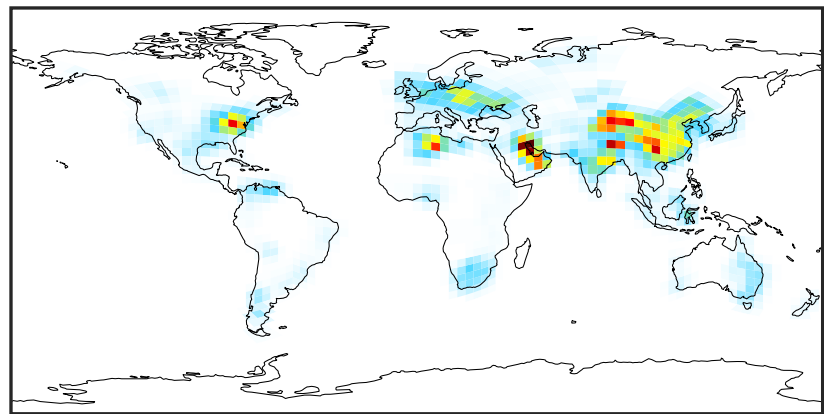


Ratio (1x1.25)  
Dev/Ref, Fixed Range

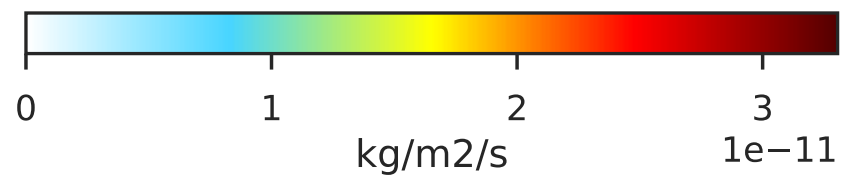
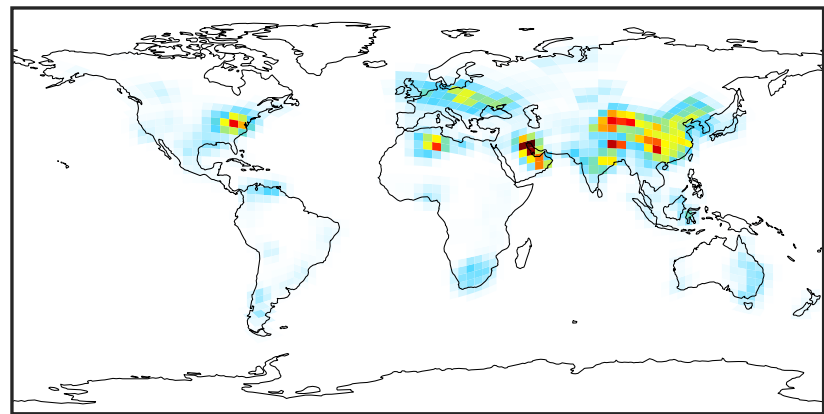


# EmisC3H8\_Anthro (Apr2019)

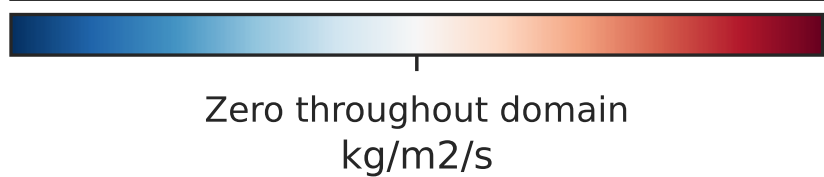
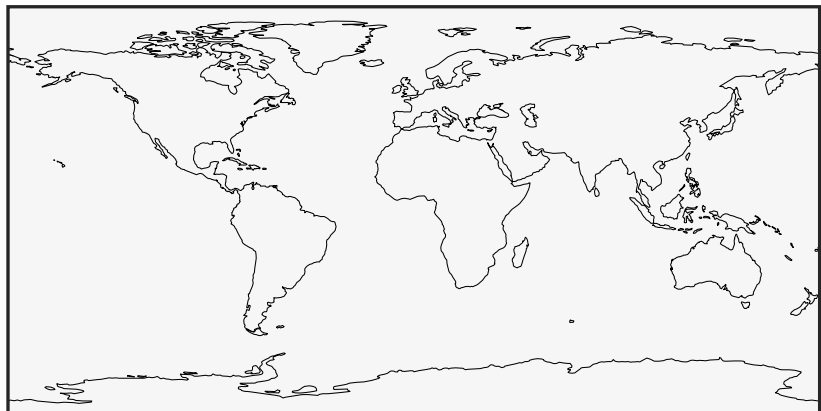
GCHP\_14.0.0 (Ref)  
c24



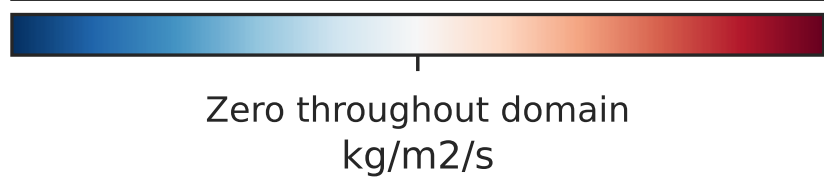
GCHP\_14.2.0 (Dev)  
c24



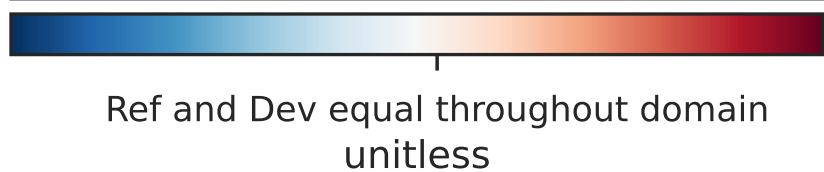
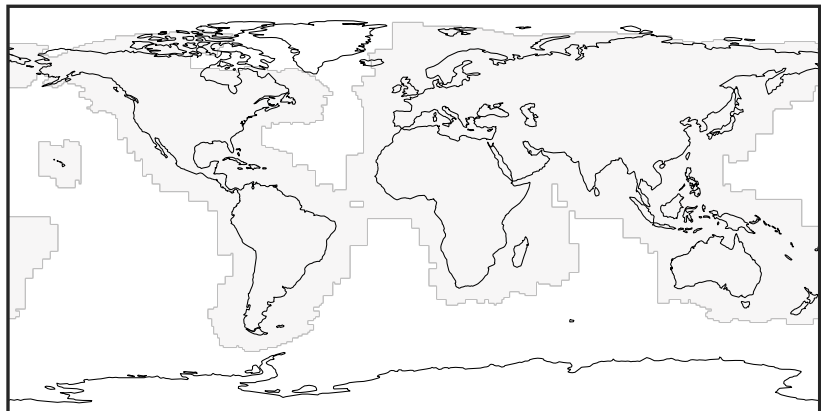
Difference (1x1.25)  
Dev - Ref, Dynamic Range



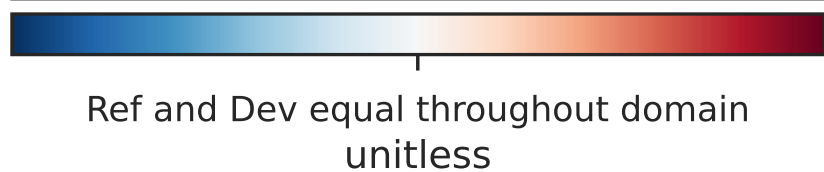
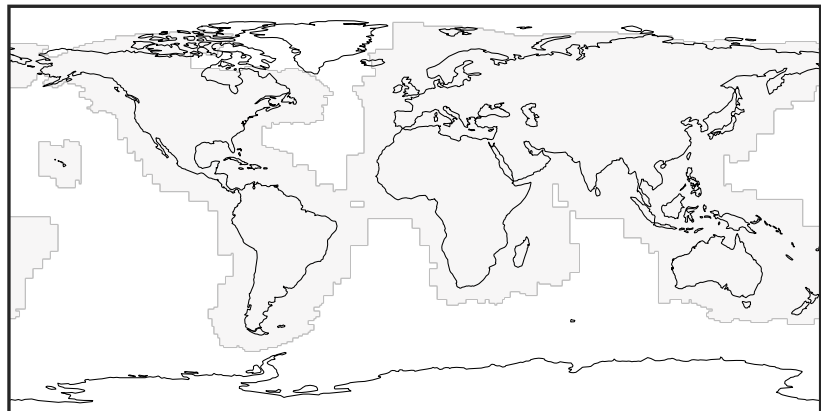
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

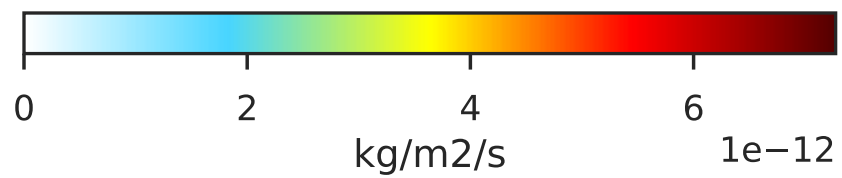
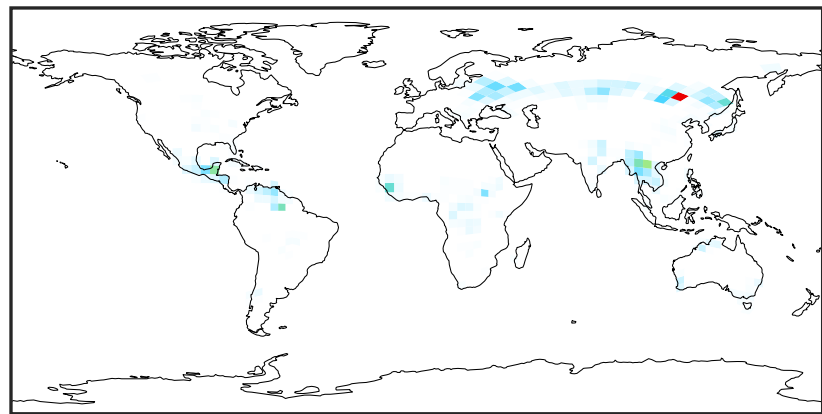


Ratio (1x1.25)  
Dev/Ref, Fixed Range

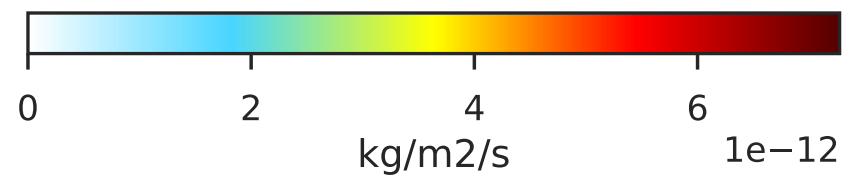
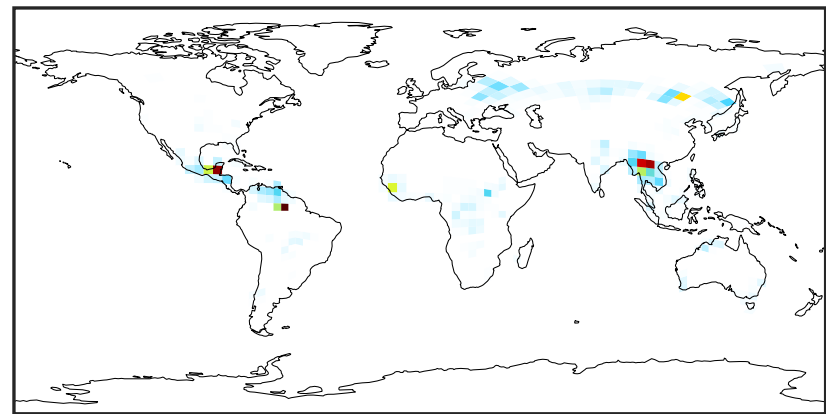


# EmisC3H8\_BioBurn (Apr2019)

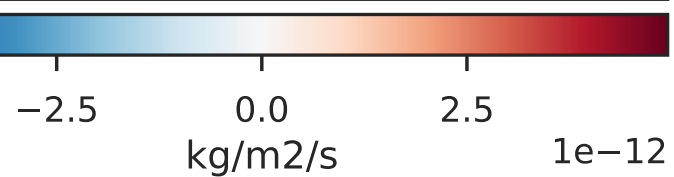
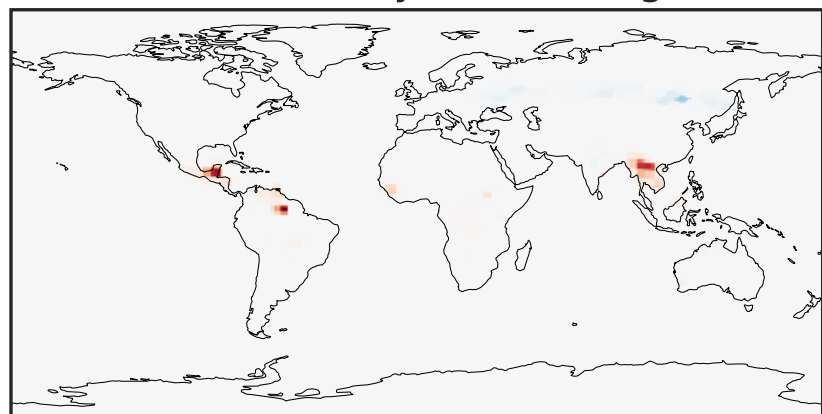
GCHP\_14.0.0 (Ref)  
c24



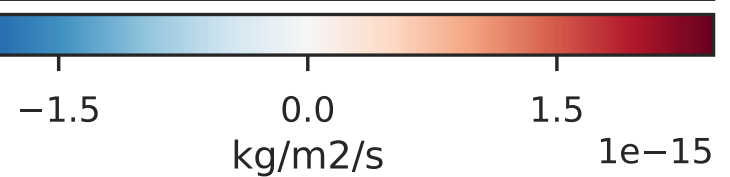
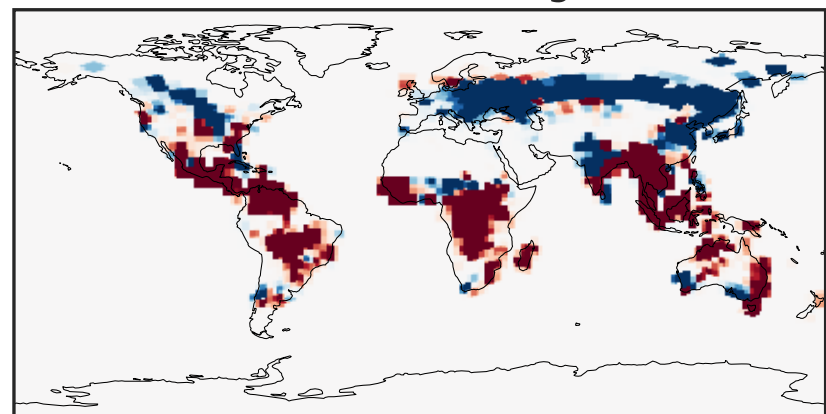
GCHP\_14.2.0 (Dev)  
c24



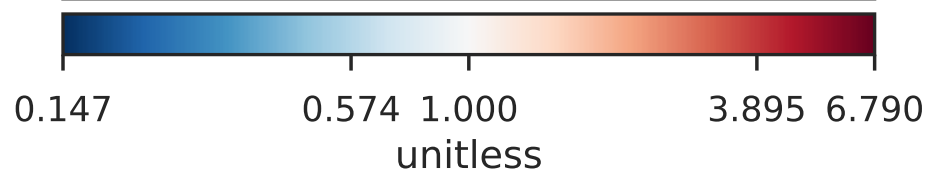
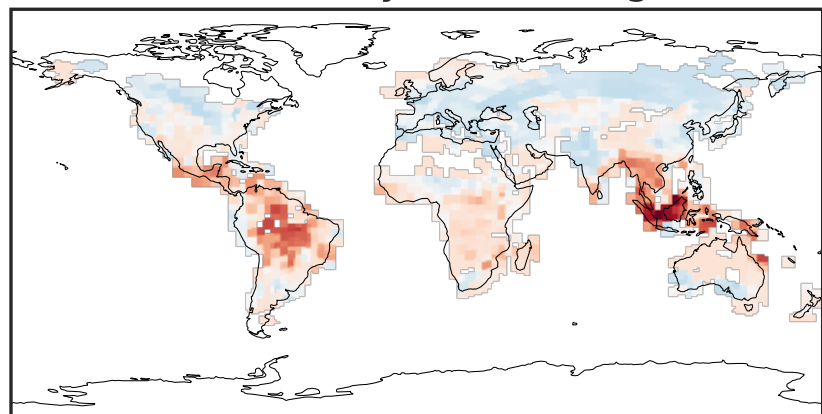
Difference (1x1.25)  
Dev - Ref, Dynamic Range



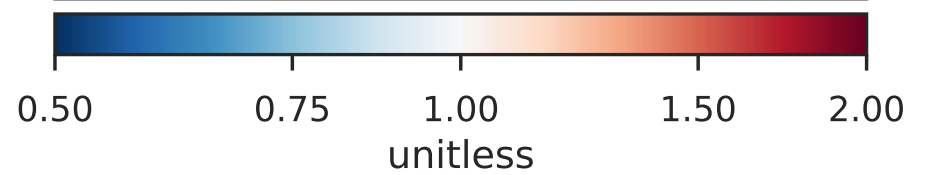
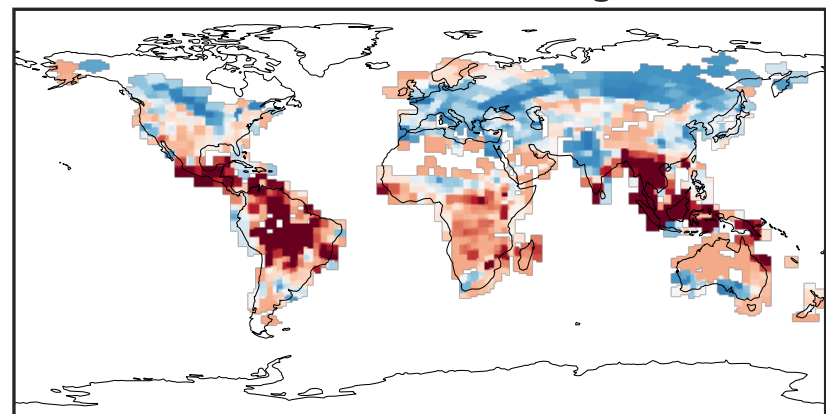
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

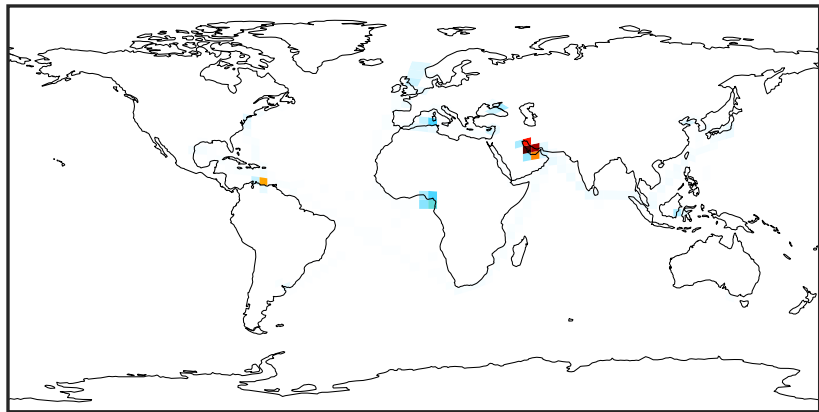


Ratio (1x1.25)  
Dev/Ref, Fixed Range



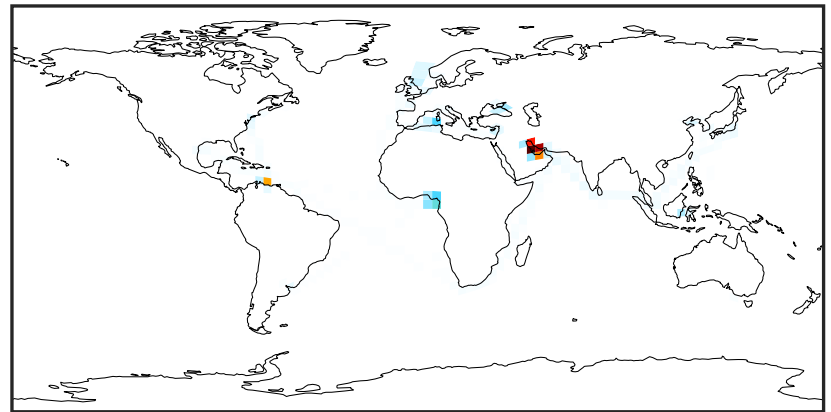
# EmisC3H8\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.4 0.8 1.2  $1e-11$   
kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



0.0 0.4 0.8 1.2  $1e-11$   
kg/m<sup>2</sup>/s

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



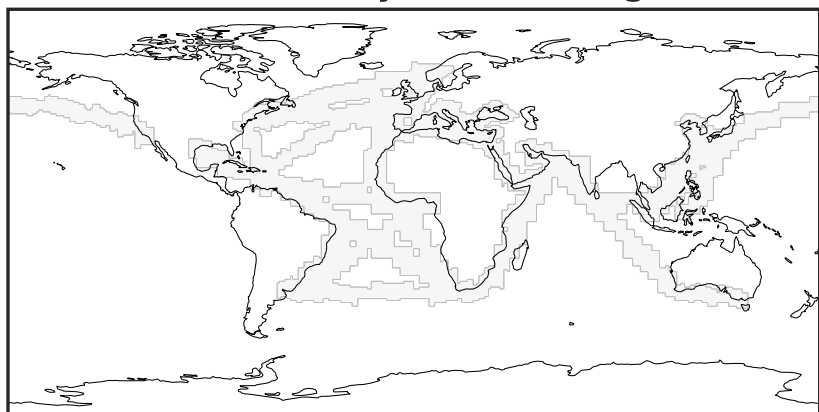
Zero throughout domain  
kg/m<sup>2</sup>/s

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



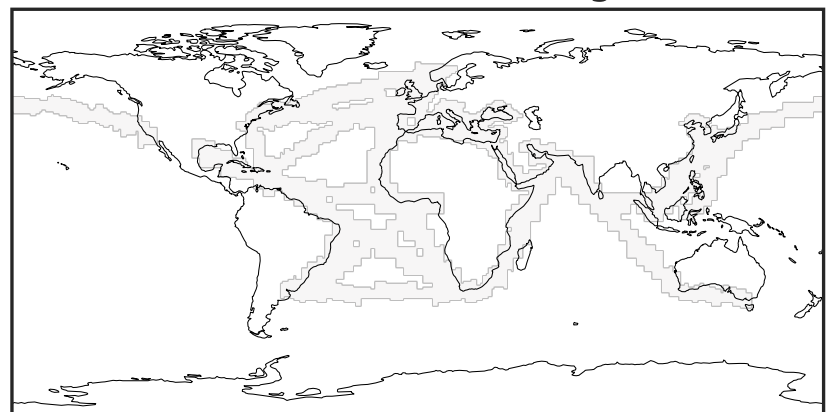
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

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

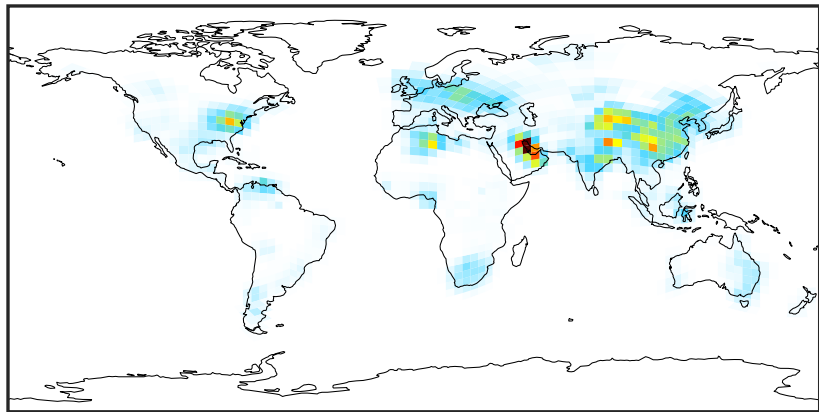


Ref and Dev equal throughout domain  
unitless



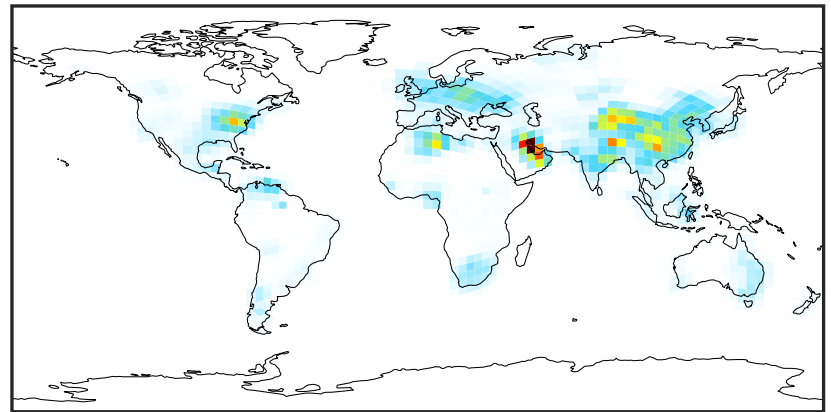
# EmisC3H8\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



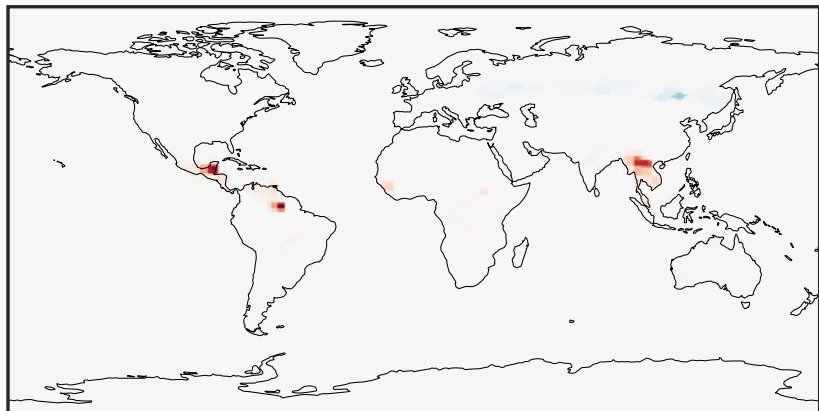
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-11$

GCHP\_14.2.0 (Dev)  
c24



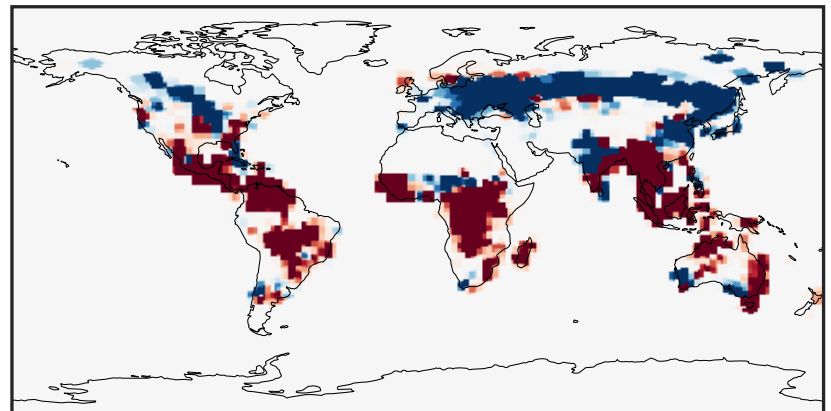
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-11$

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



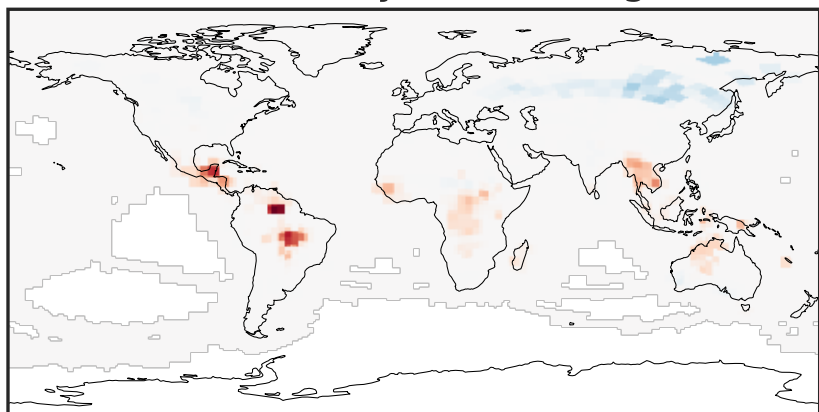
-2.5 0.0 2.5  
kg/m2/s  $1e-12$

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



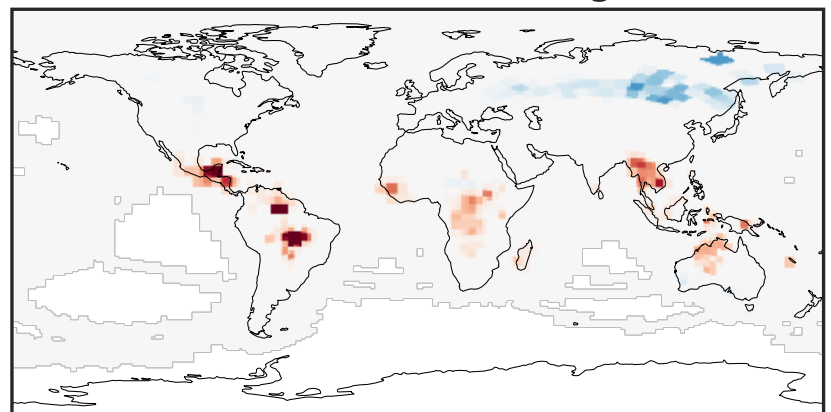
-1.5 0.0 1.5  
kg/m2/s  $1e-15$

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



0.300 0.650 1.000 2.166 3.333  
unitless

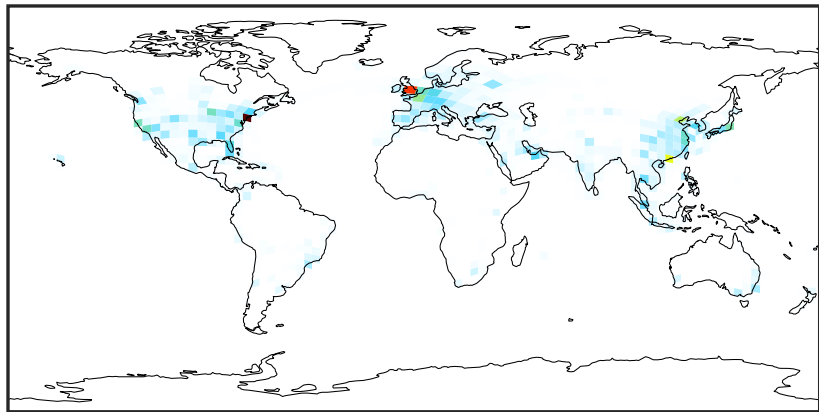
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

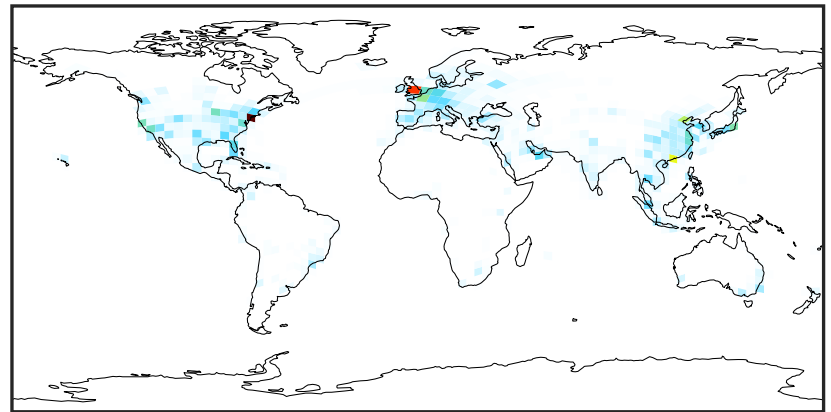
# EmisPRPE\_Aircraft (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-13

GCHP\_14.2.0 (Dev)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-13

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



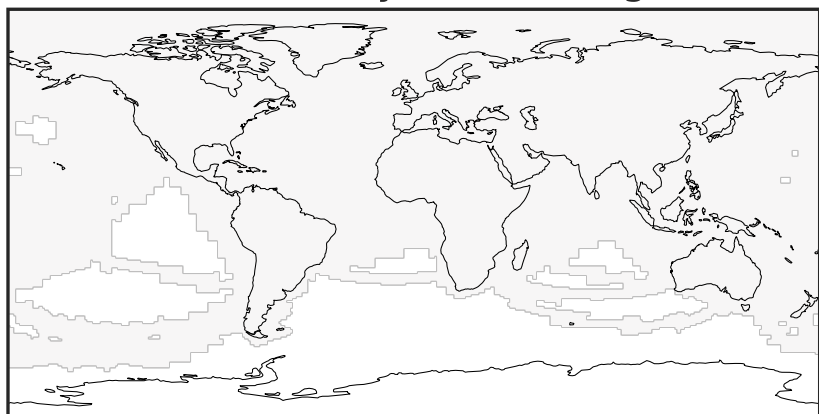
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

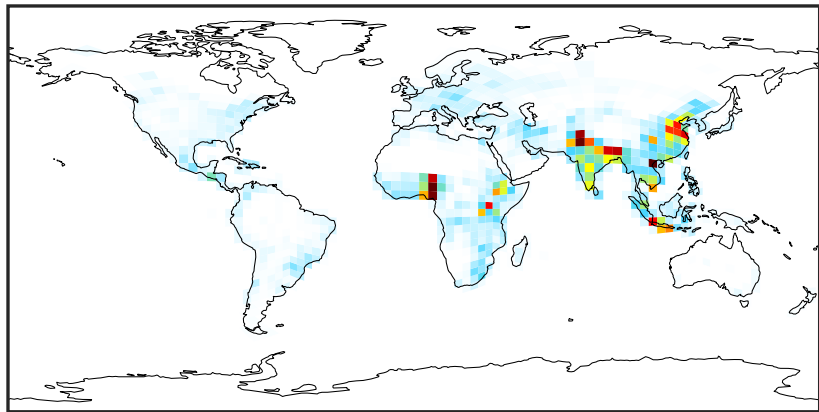
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

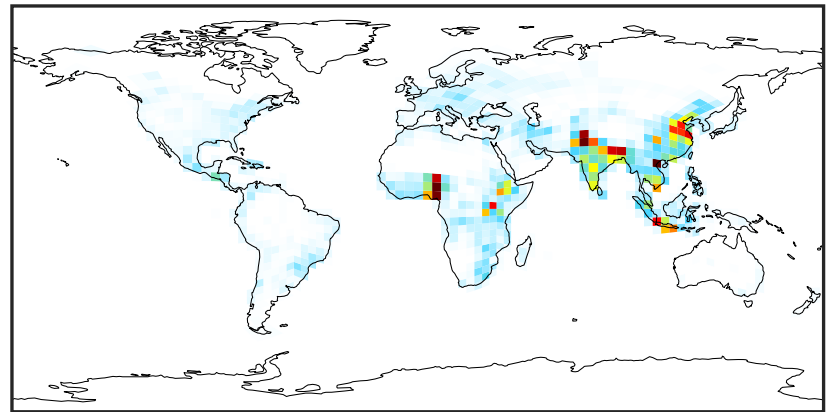
# EmisPRPE\_Anthro (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



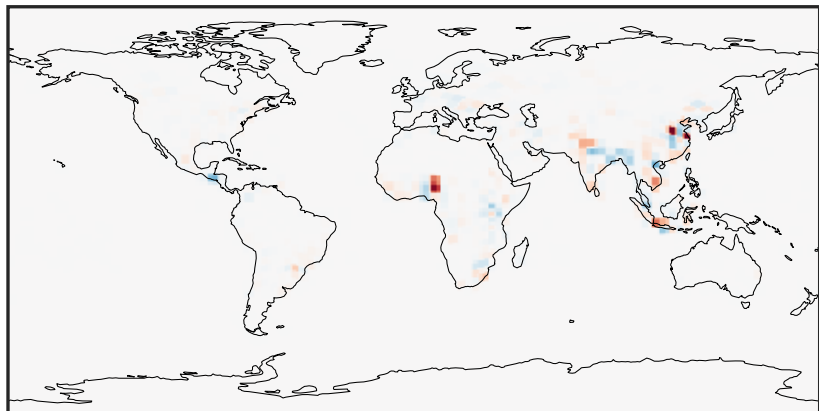
0.0 2.5 5.0 7.5  $10^{-12}$  kg/m<sup>2</sup>/s

GCHP\_14.2.0 (Dev)  
c24



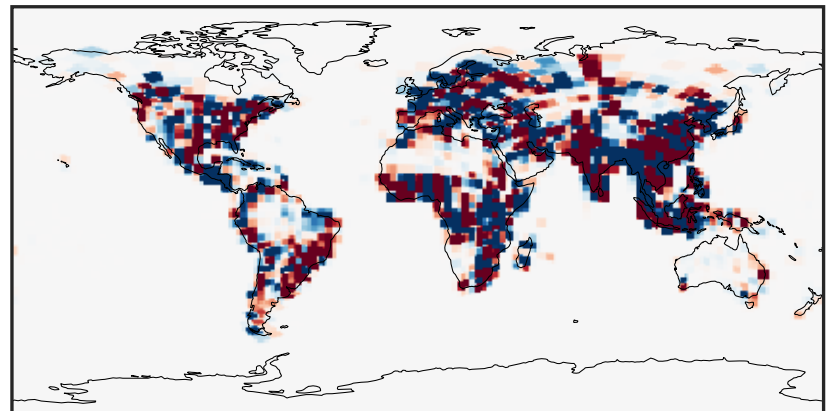
0.0 2.5 5.0 7.5  $10^{-12}$  kg/m<sup>2</sup>/s

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



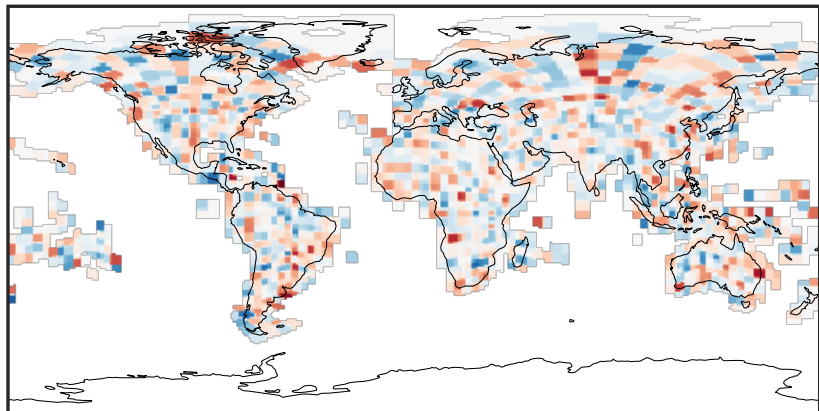
-2 0 2  $10^{-16}$  kg/m<sup>2</sup>/s

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



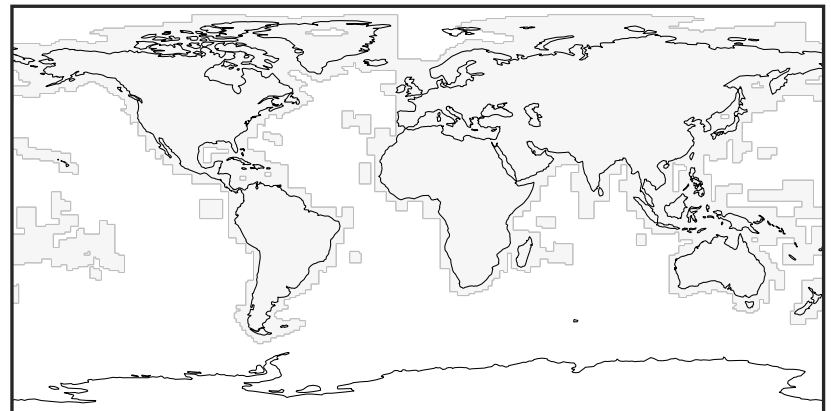
-1.5 0.0 1.5  $10^{-18}$  kg/m<sup>2</sup>/s

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



0.9999331 1.000000 1.0000669 unitless

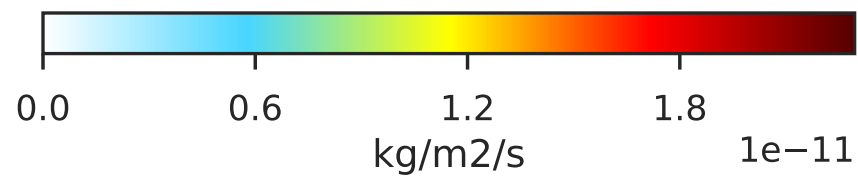
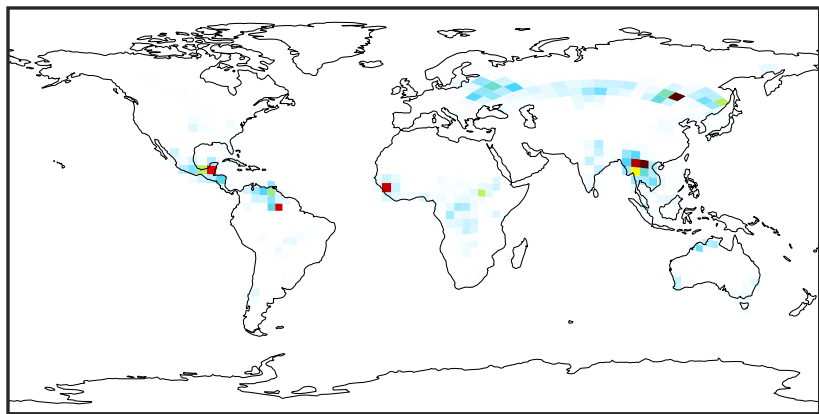
Ratio (1x1.25)  
Dev/Ref, Fixed Range



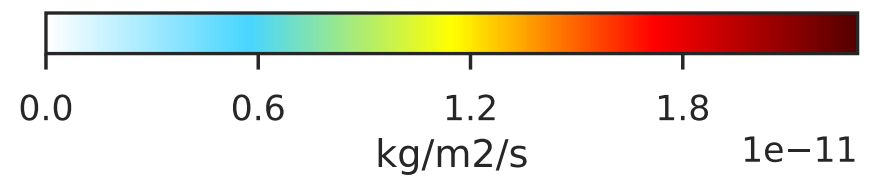
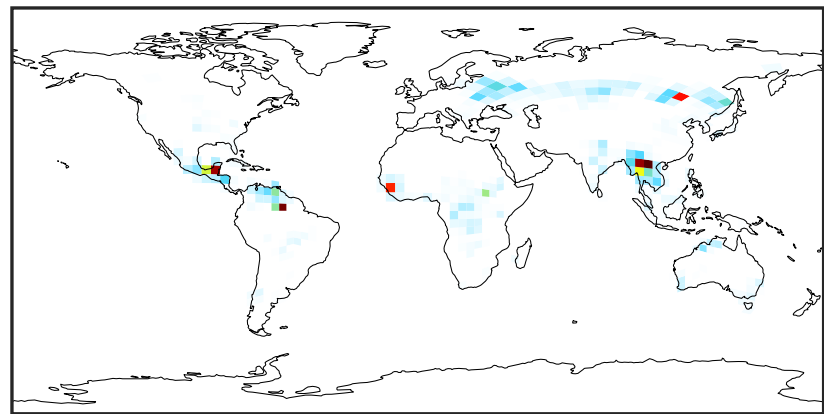
0.50 0.75 1.00 1.50 2.00 unitless

# EmisPRPE\_BioBurn (Apr2019)

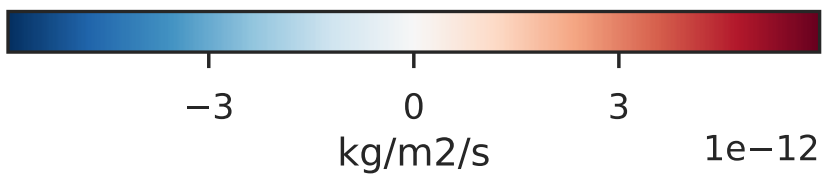
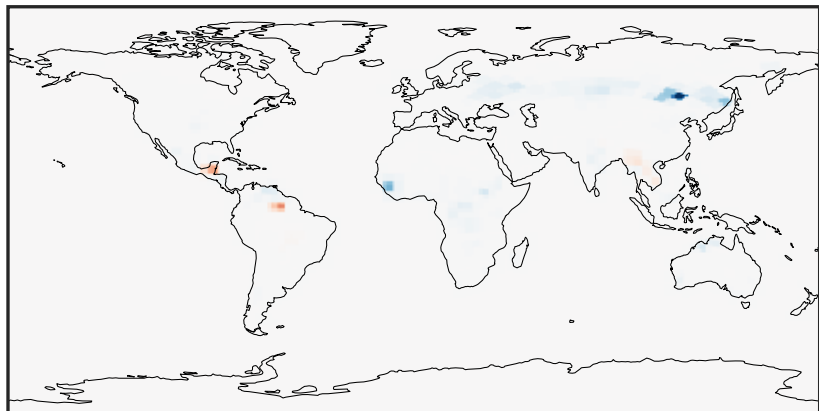
GCHP\_14.0.0 (Ref)  
c24



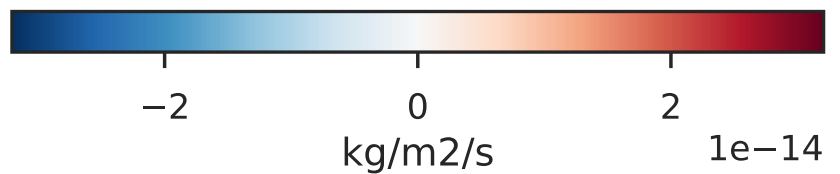
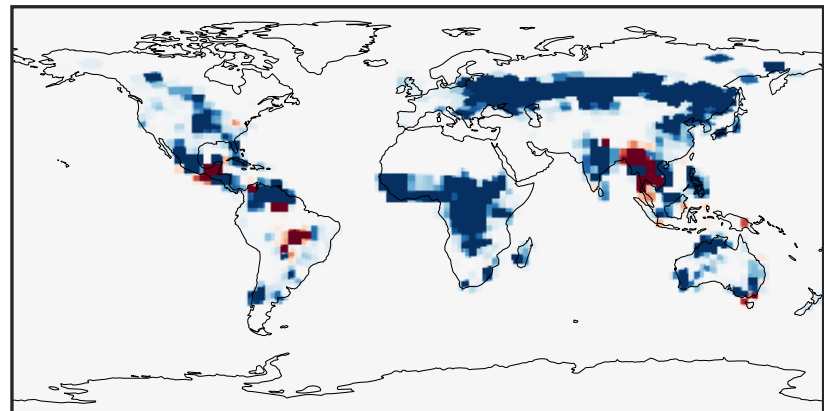
GCHP\_14.2.0 (Dev)  
c24



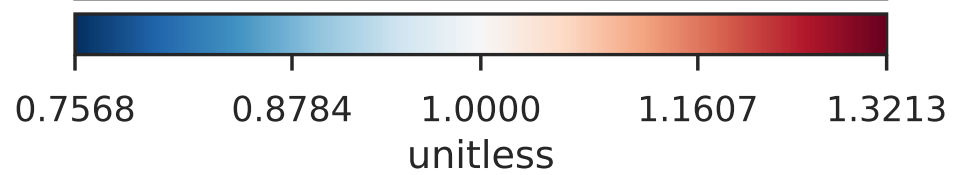
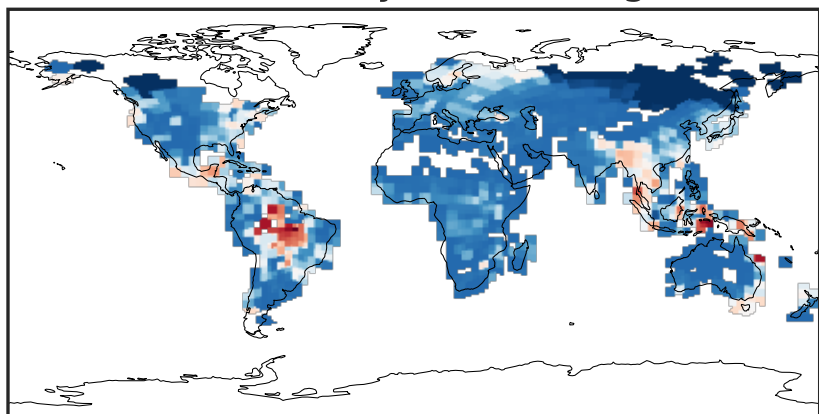
Difference (1x1.25)  
Dev - Ref, Dynamic Range



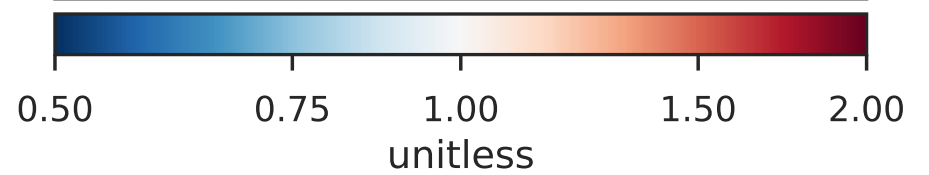
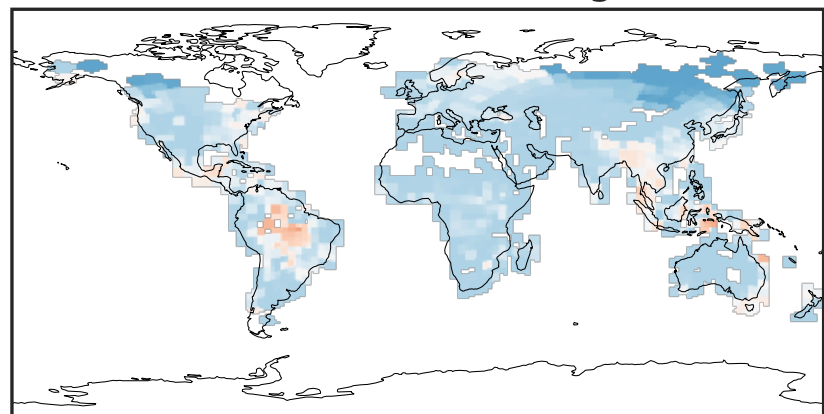
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



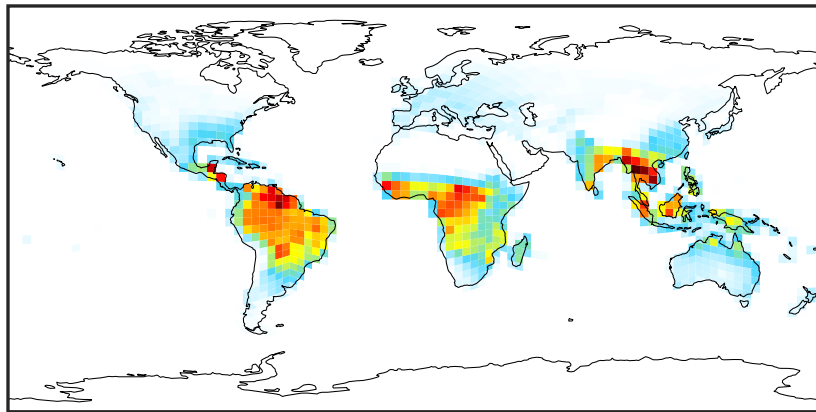
Ratio (1x1.25)  
Dev/Ref, Fixed Range





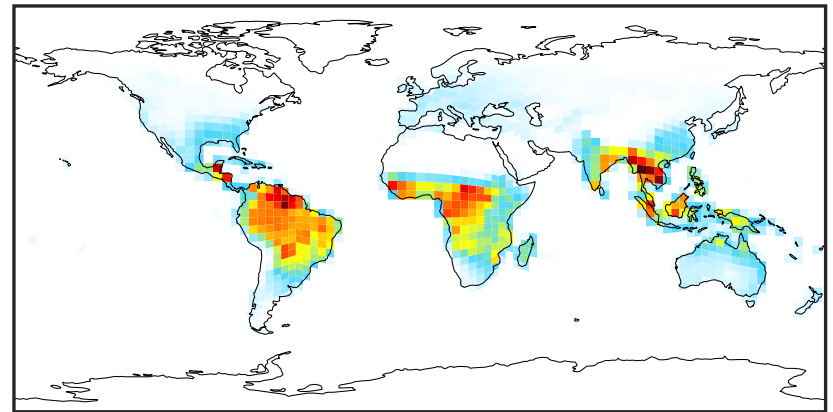
# EmisPRPE\_Biogenic (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m2/s  $1e-11$

GCHP\_14.2.0 (Dev)  
c24



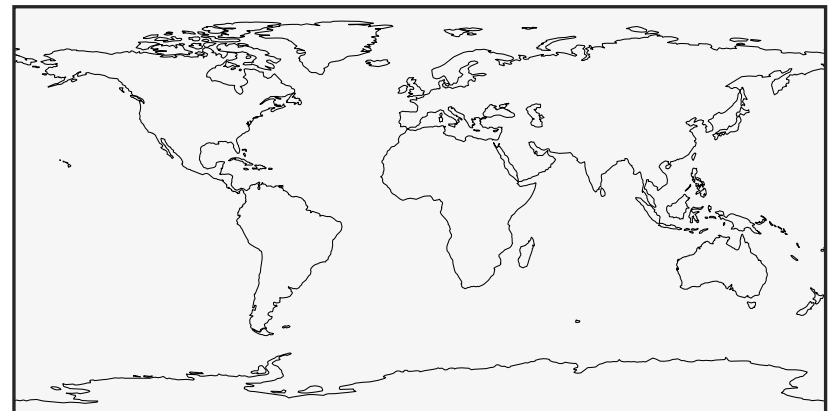
0.0 0.8 1.6 2.4  
kg/m2/s  $1e-11$

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



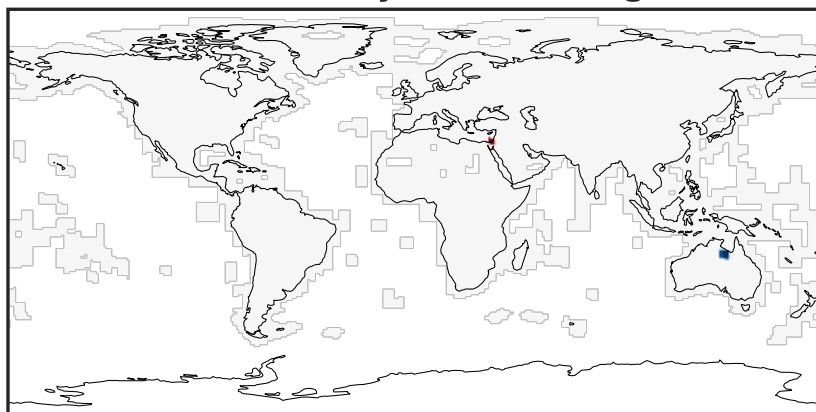
-2.5 0.0 2.5  
kg/m2/s  $1e-19$

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



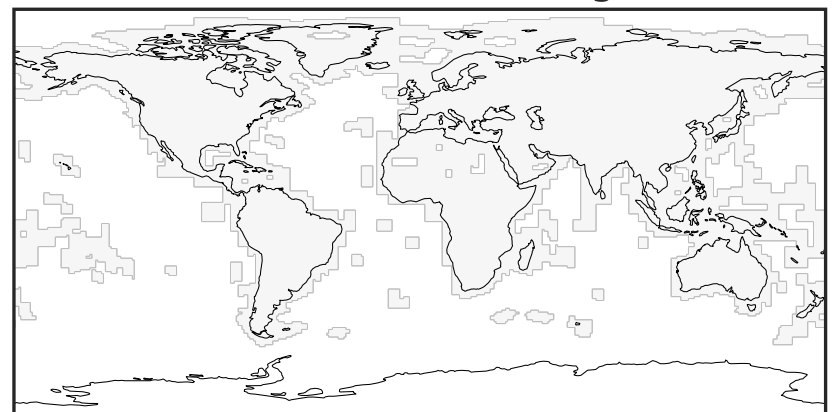
-1.0 -0.5 0.0 0.5 1.0  
kg/m2/s

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



0.9999999337 1.000000000 1.00000006630.50  
unitless

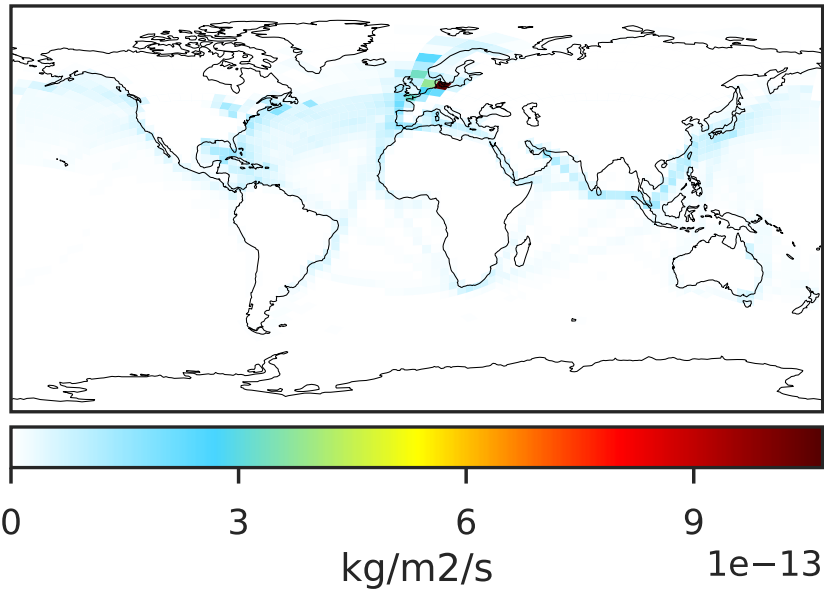
Ratio (1x1.25)  
Dev/Ref, Fixed Range



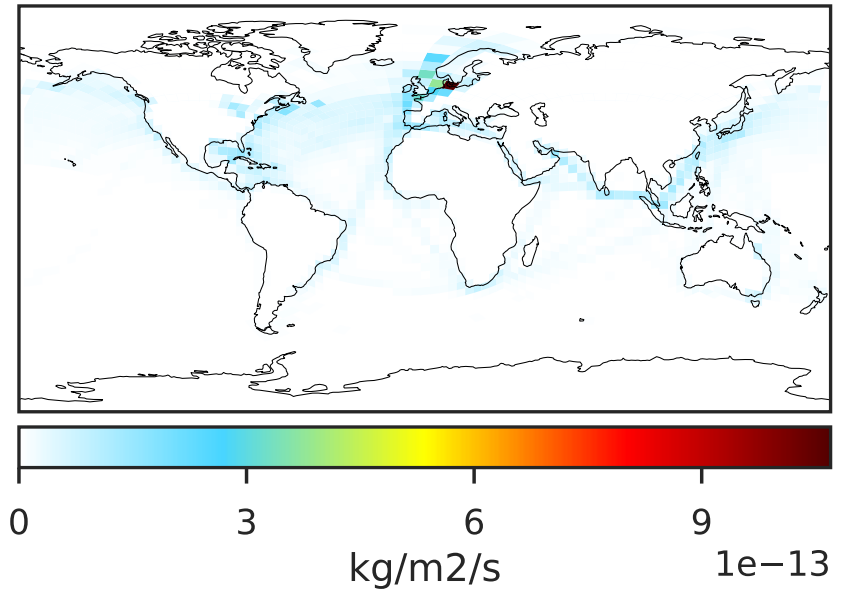
0.75 1.00 1.50 2.00  
unitless

# EmisPRPE\_Ship (Apr2019)

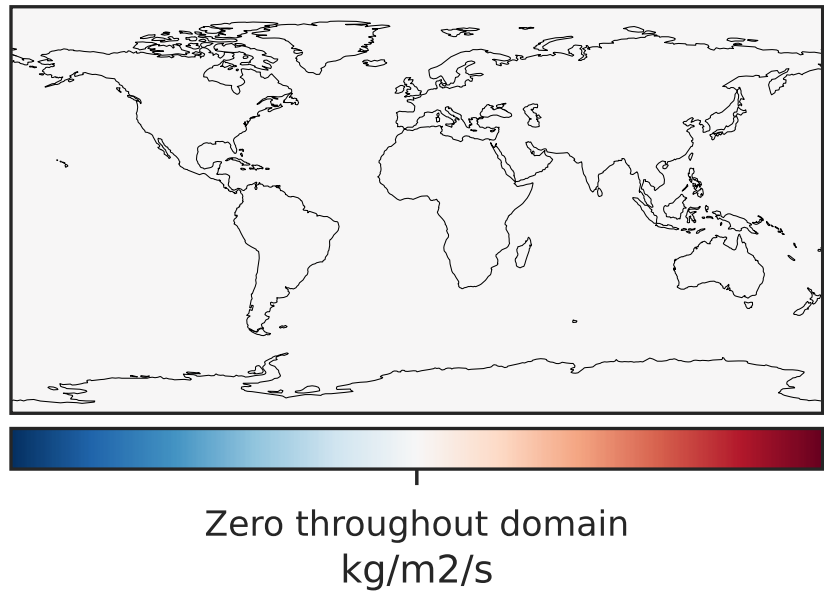
GCHP\_14.0.0 (Ref)  
c24



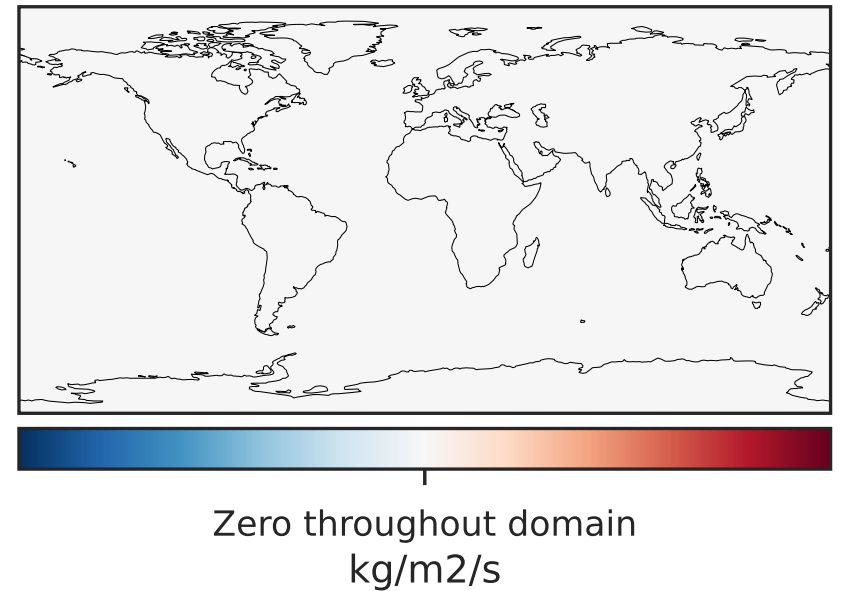
GCHP\_14.2.0 (Dev)  
c24



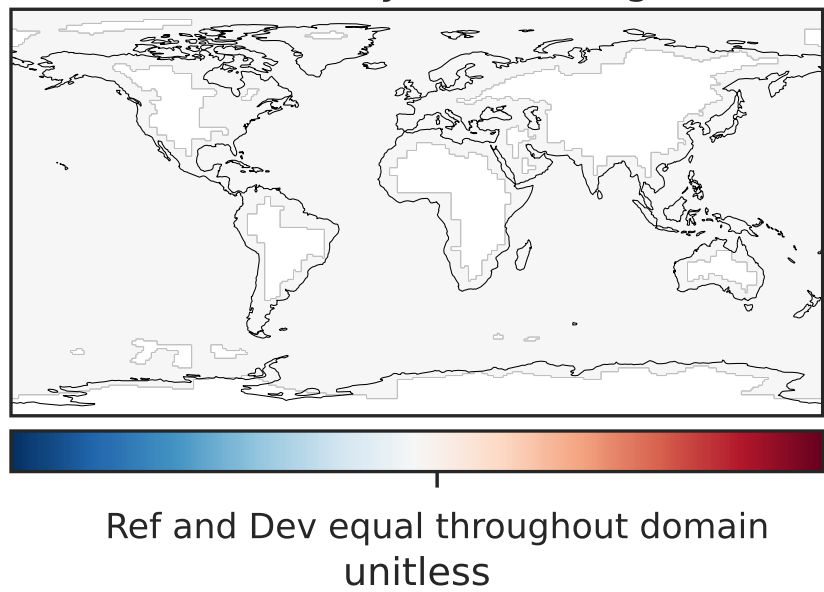
Difference (1x1.25)  
Dev - Ref, Dynamic Range



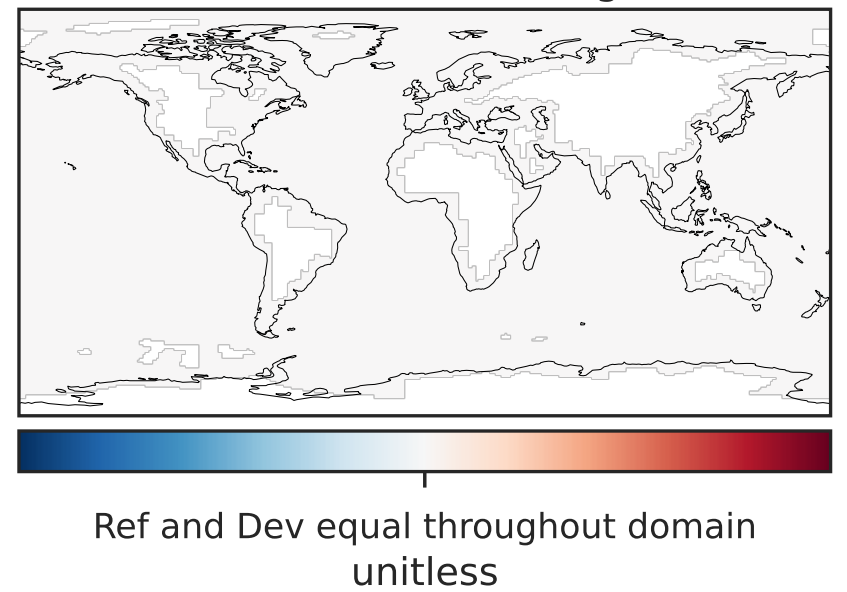
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

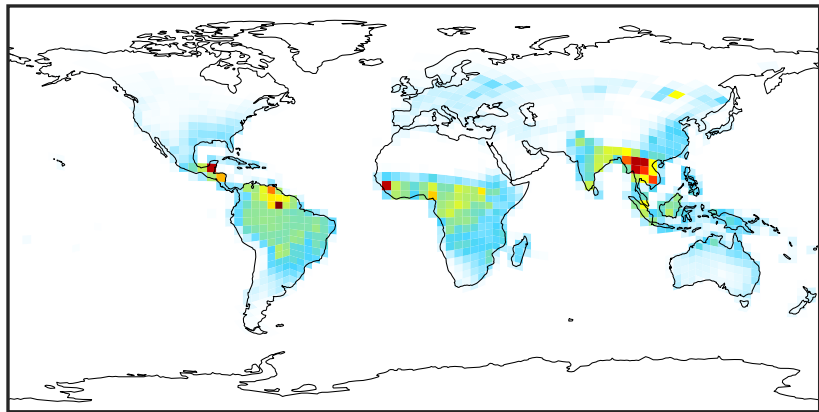


Ratio (1x1.25)  
Dev/Ref, Fixed Range



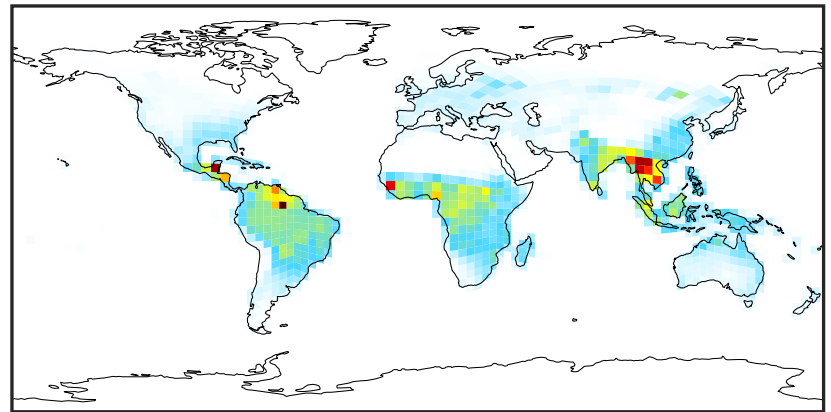
# EmisPRPE\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



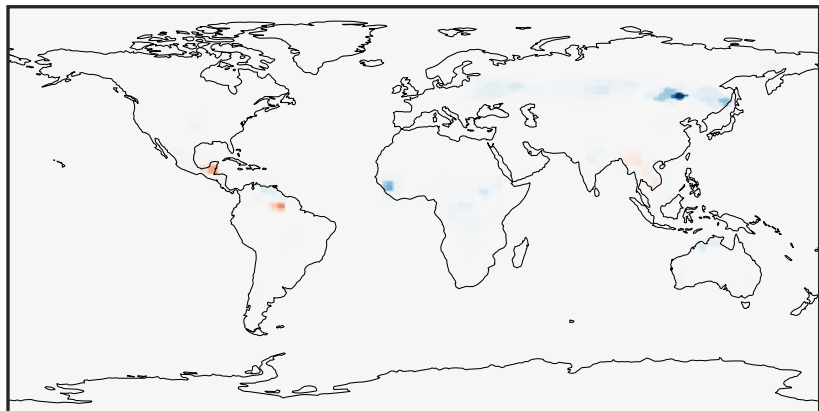
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-11$

GCHP\_14.2.0 (Dev)  
c24



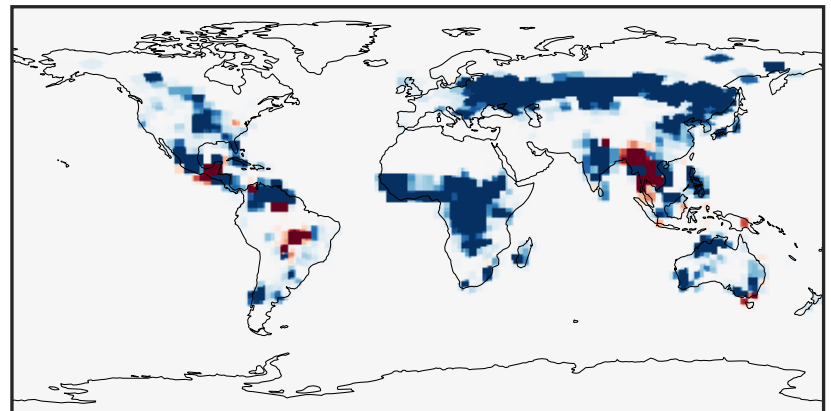
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-11$

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



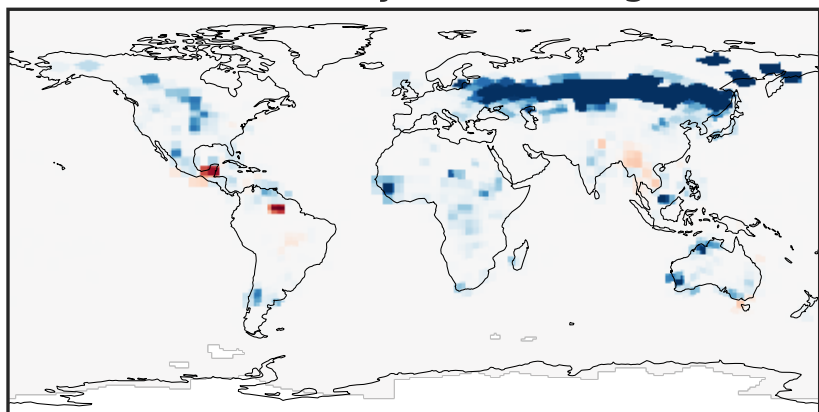
-3 0 3  
kg/m2/s  $1e-12$

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



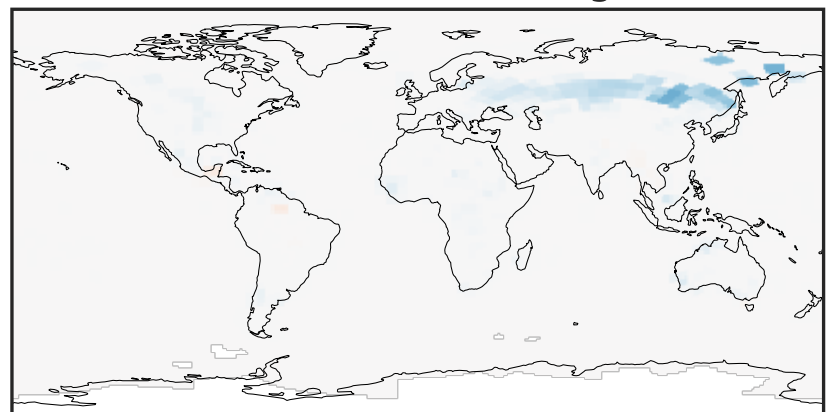
-2 0 2  
kg/m2/s  $1e-14$

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



0.9368 0.9684 1.0000 1.0337 1.0674  
unitless

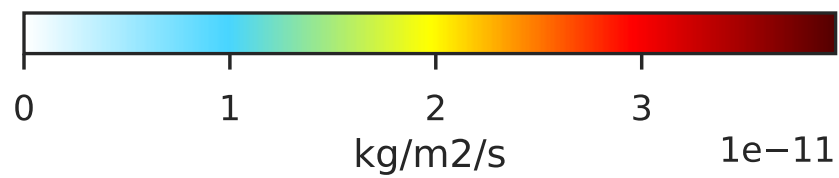
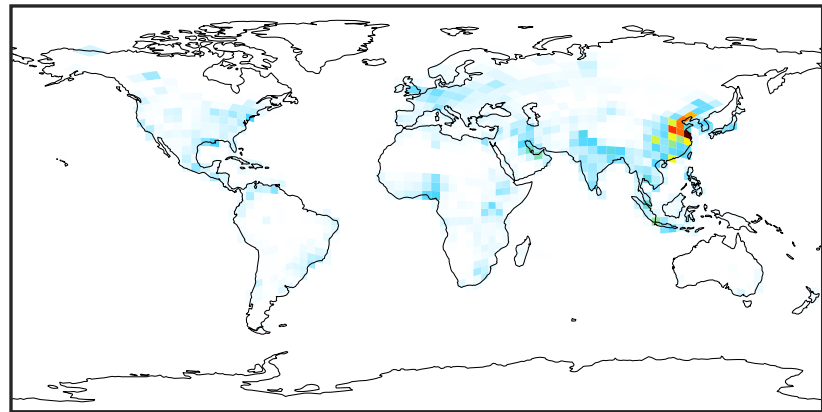
Ratio (1x1.25)  
Dev/Ref, Fixed Range



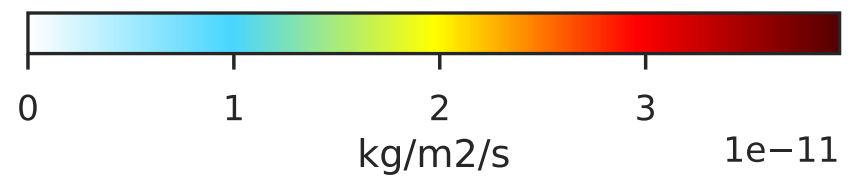
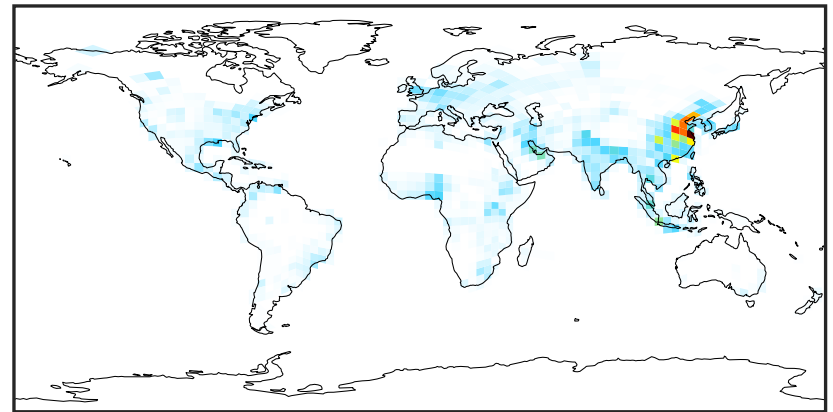
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisTOLU\_Anthro (Apr2019)

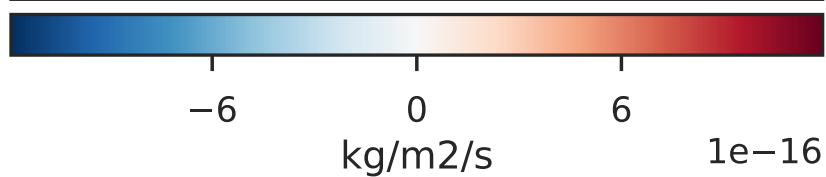
GCHP\_14.0.0 (Ref)  
c24



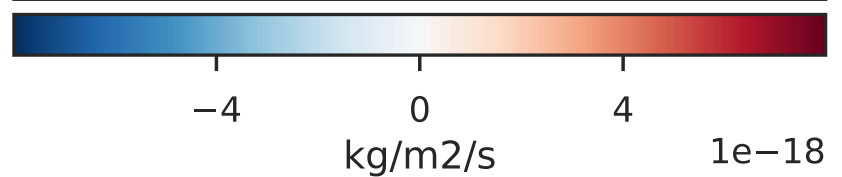
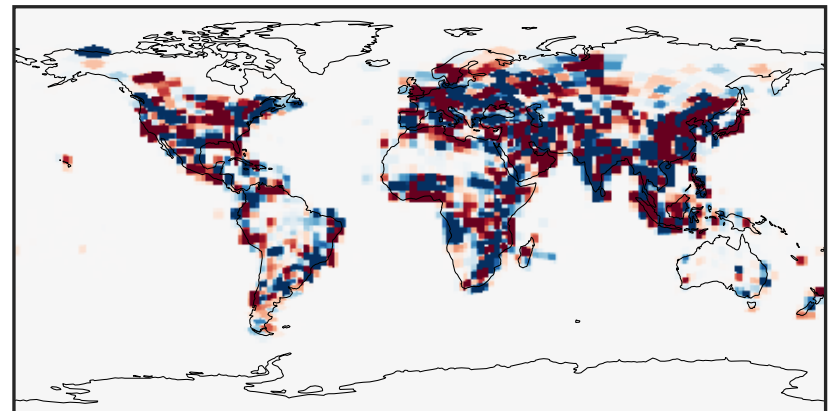
GCHP\_14.2.0 (Dev)  
c24



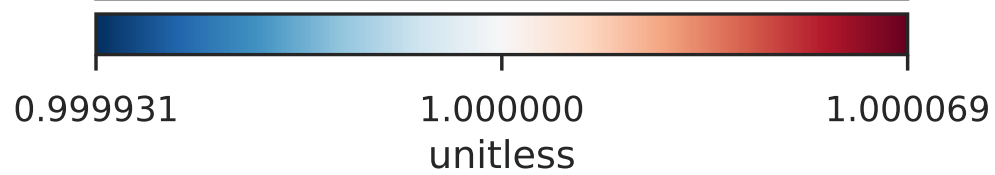
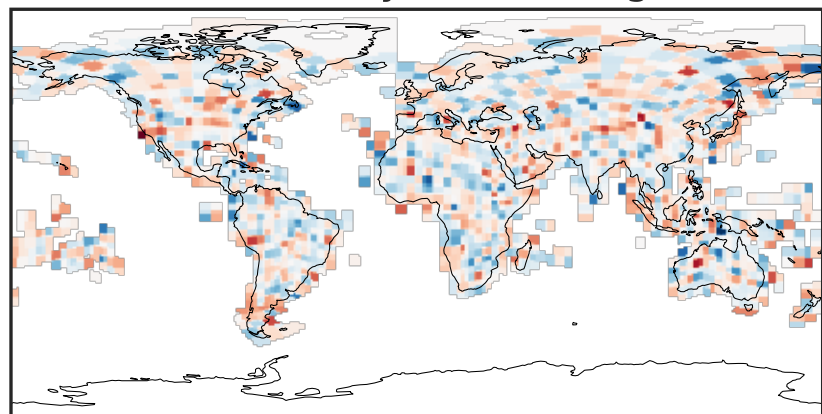
Difference (1x1.25)  
Dev - Ref, Dynamic Range



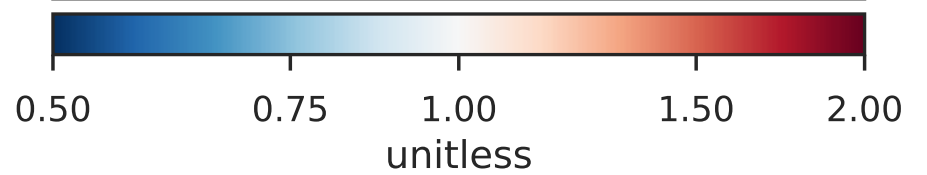
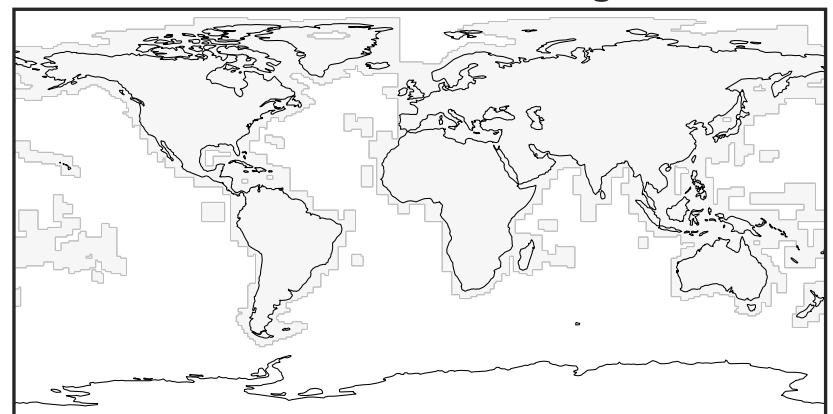
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



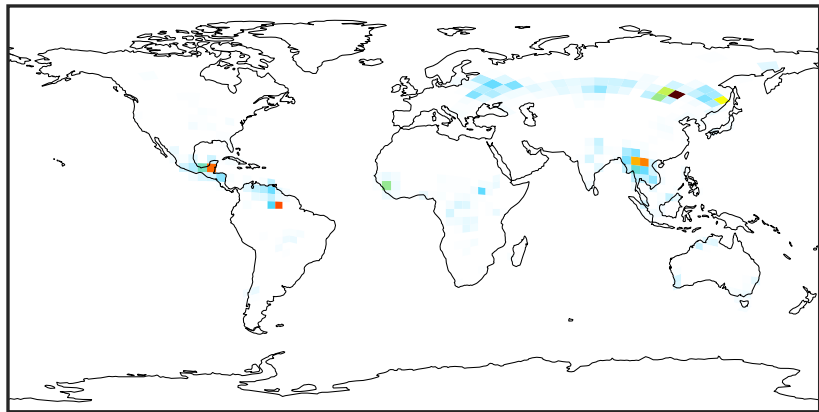
Ratio (1x1.25)  
Dev/Ref, Fixed Range





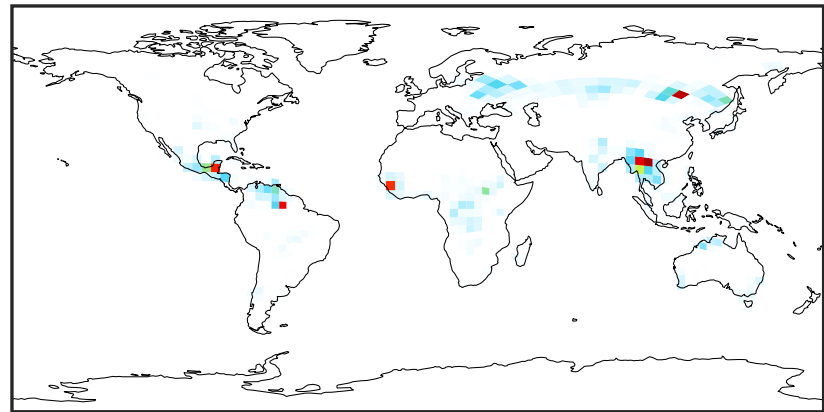
# EmisTOLU\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



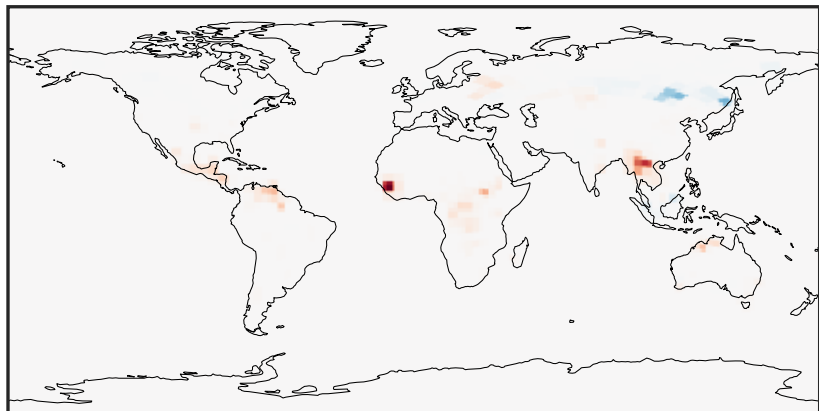
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

GCHP\_14.2.0 (Dev)  
c24



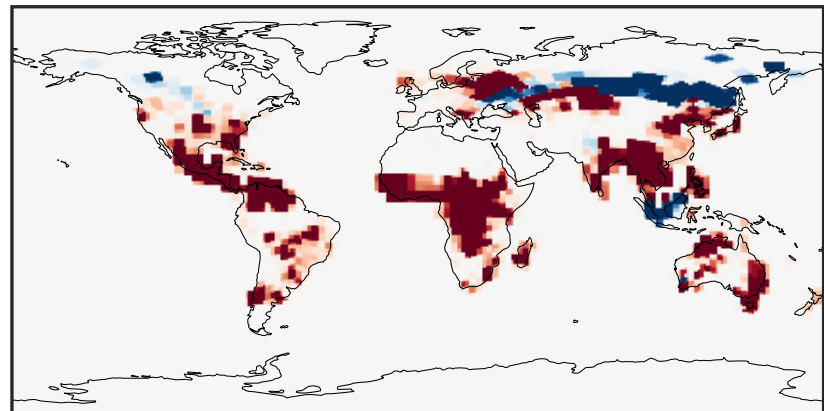
0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-12

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



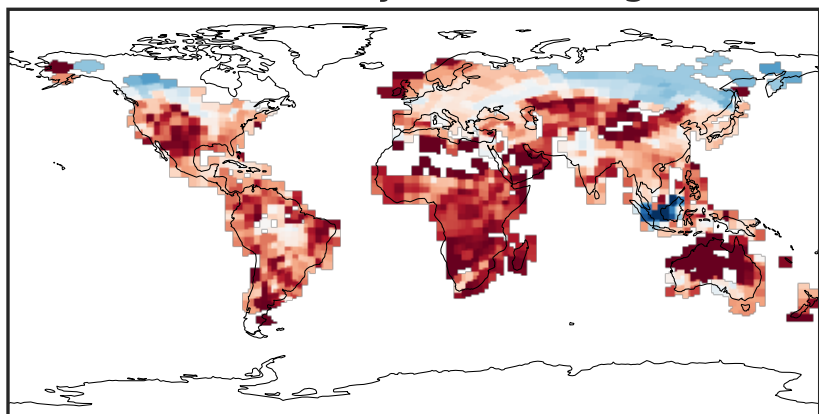
-1 0 1  
kg/m<sup>2</sup>/s 1e-12

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



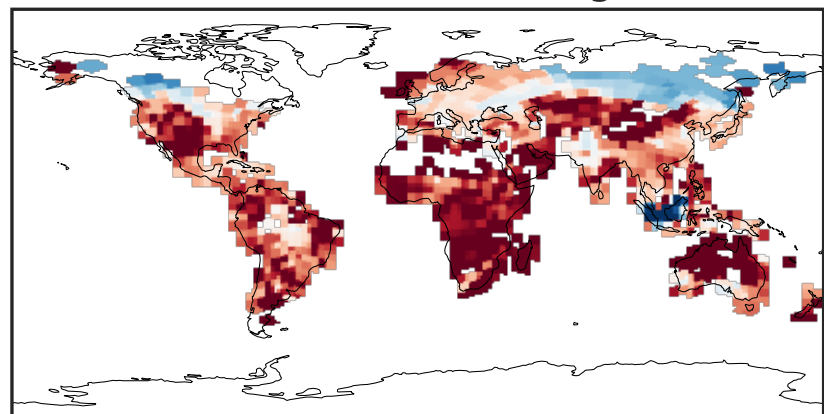
-5 0 5  
kg/m<sup>2</sup>/s 1e-15

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



0.421 0.711 1.000 1.688 2.375  
unitless

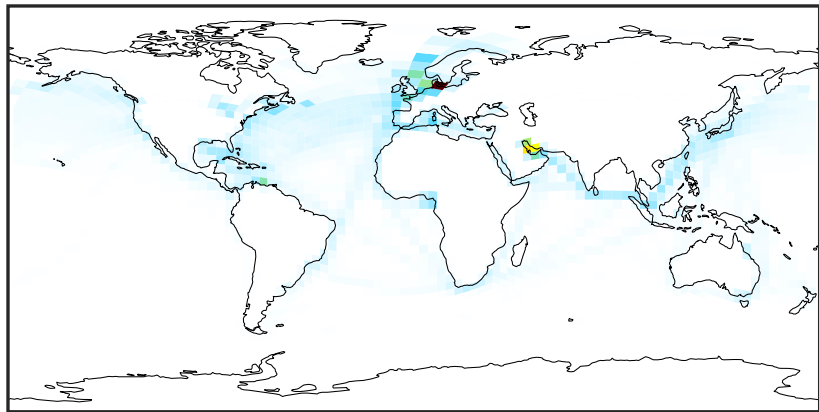
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

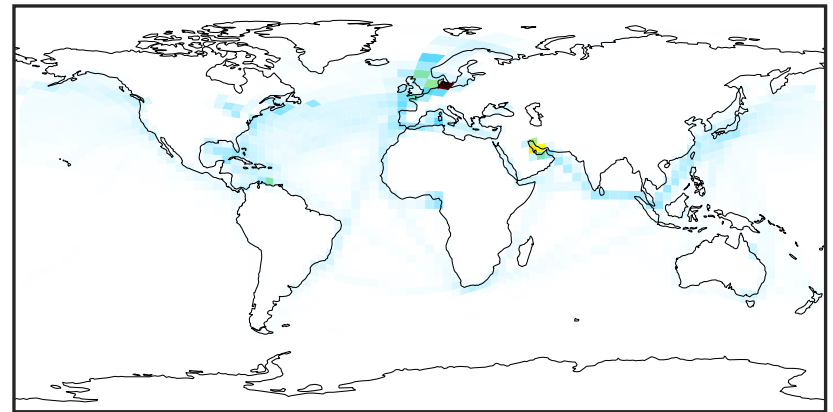
# EmisTOLU\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-13

GCHP\_14.2.0 (Dev)  
c24



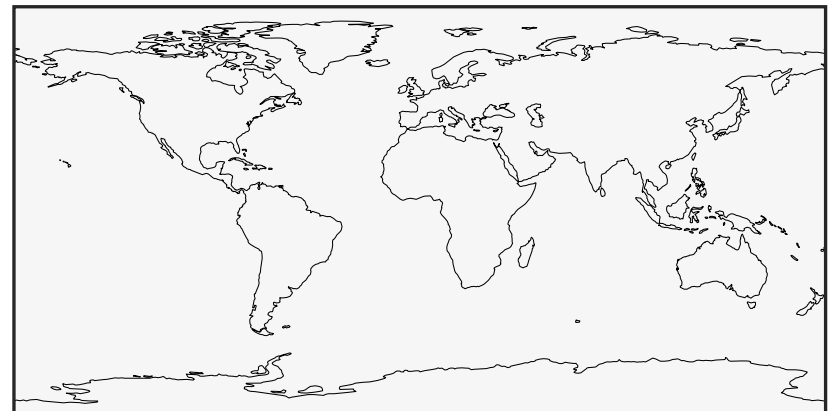
0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-13

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



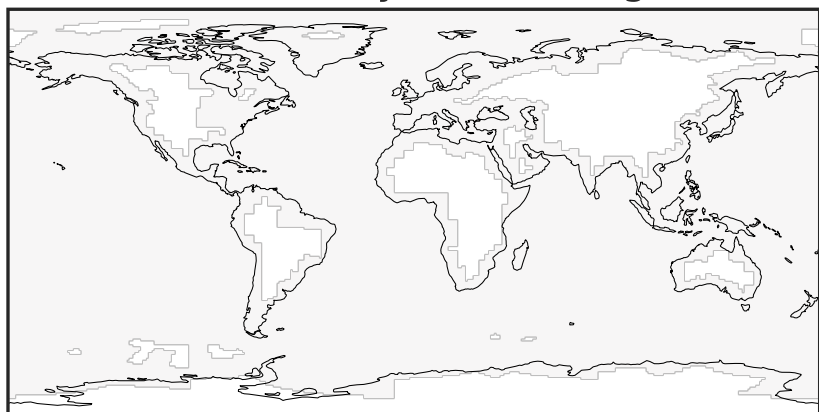
Zero throughout domain  
kg/m<sup>2</sup>/s

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



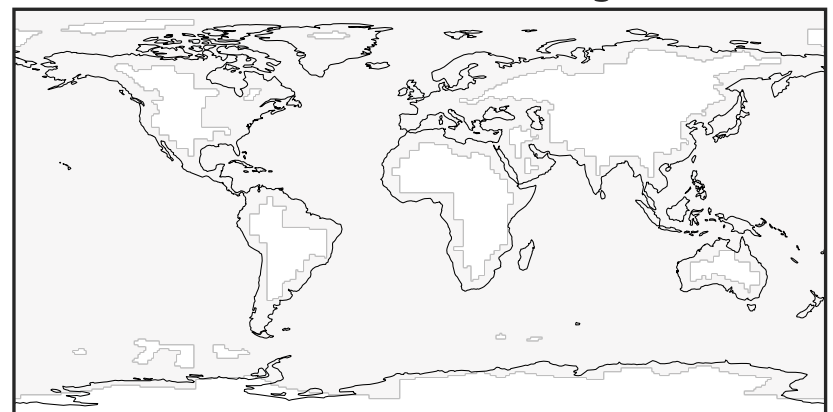
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

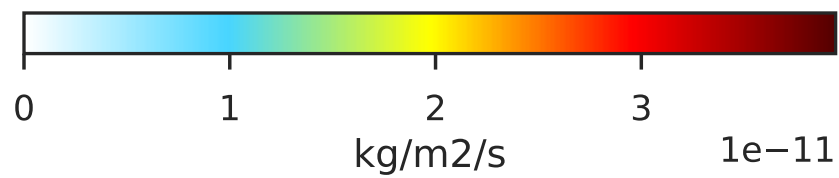
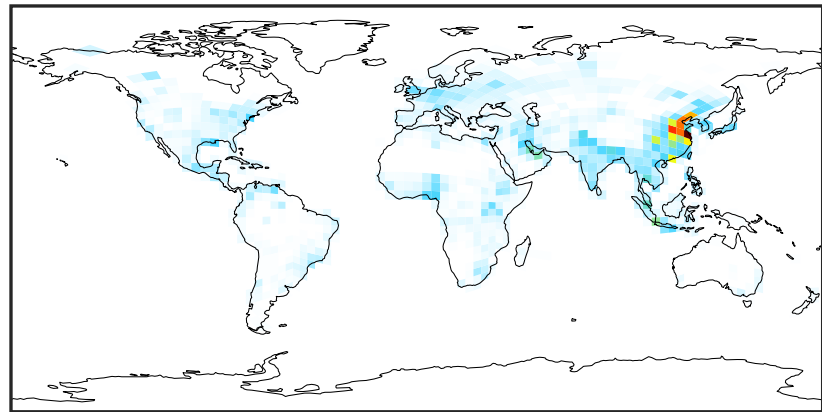
Ratio (1x1.25)  
Dev/Ref, Fixed Range



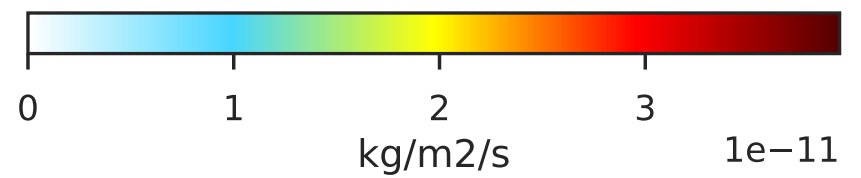
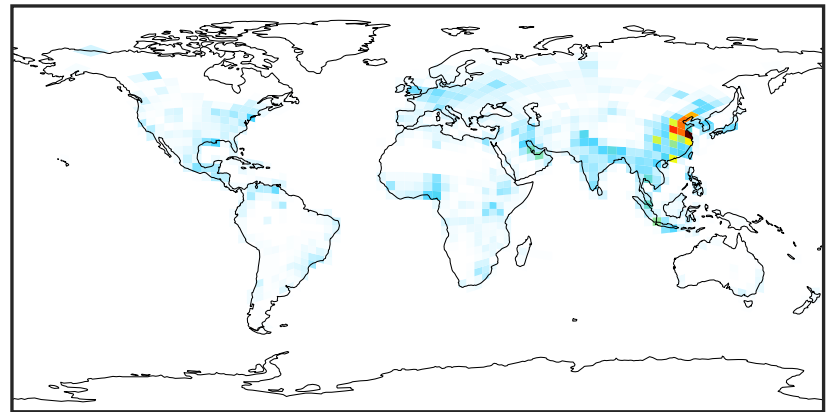
Ref and Dev equal throughout domain  
unitless

# EmisTOLU\_Total (Apr2019)

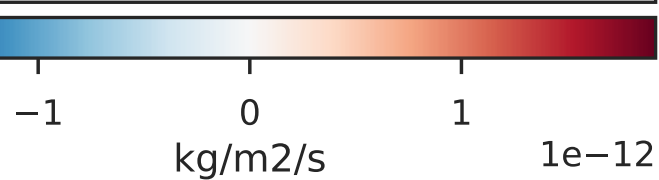
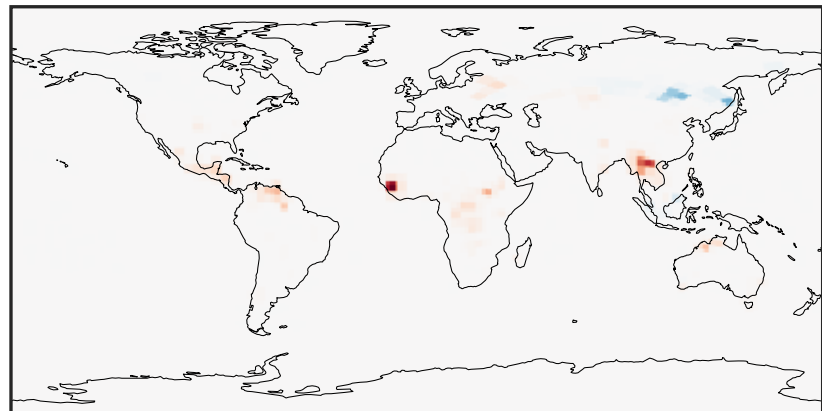
GCHP\_14.0.0 (Ref)  
c24



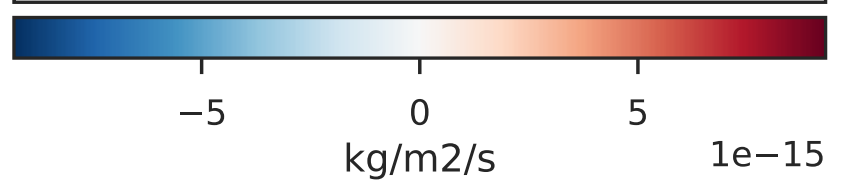
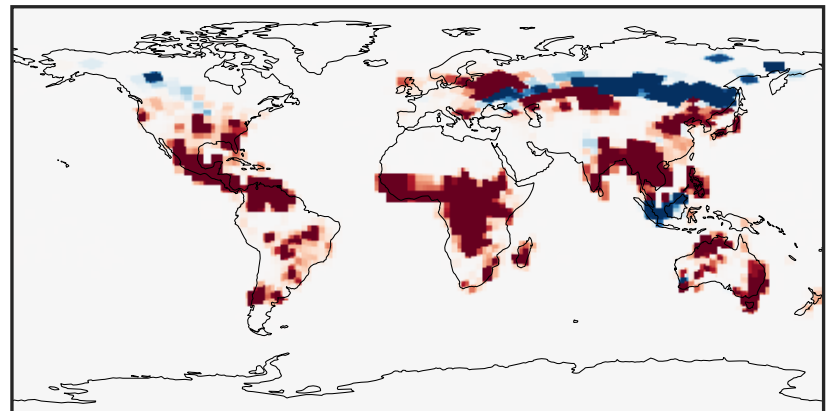
GCHP\_14.2.0 (Dev)  
c24



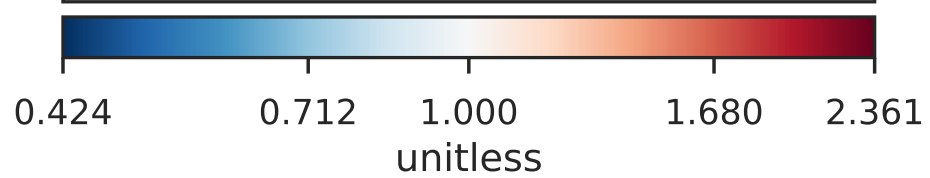
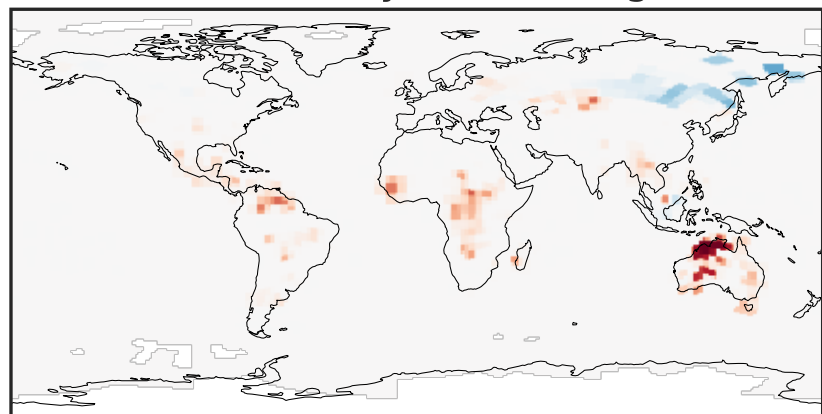
Difference (1x1.25)  
Dev - Ref, Dynamic Range



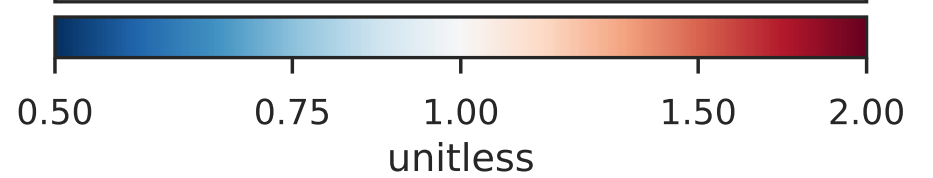
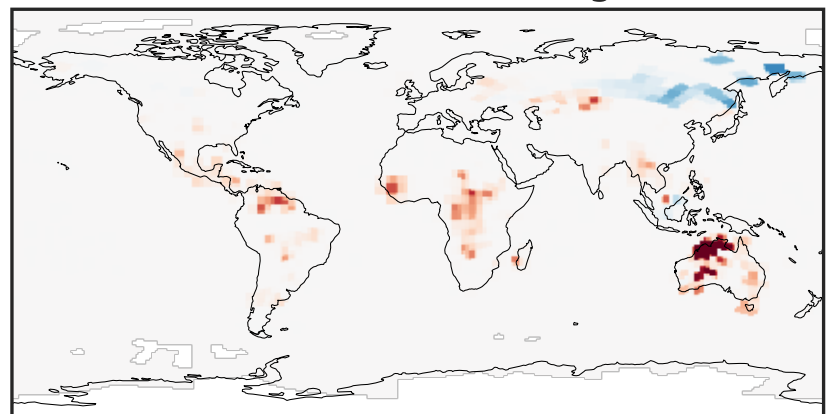
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

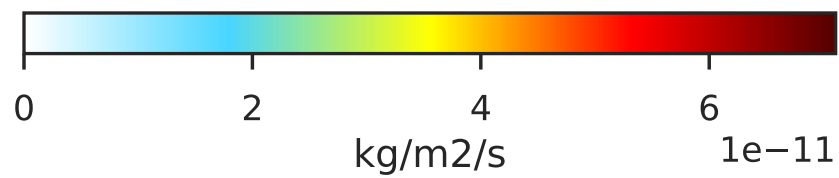
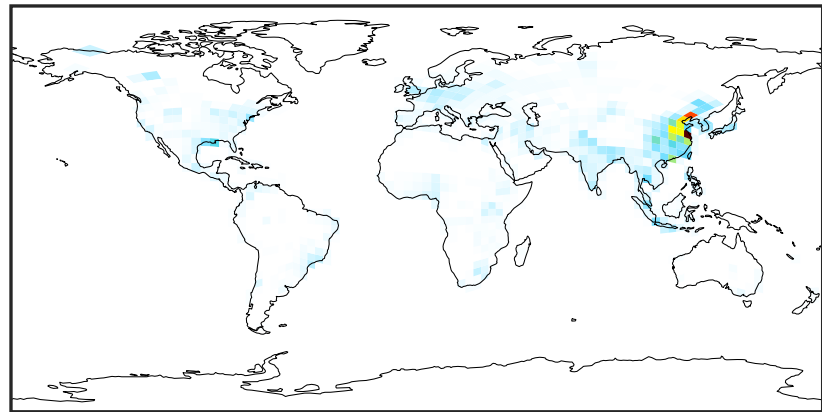


Ratio (1x1.25)  
Dev/Ref, Fixed Range

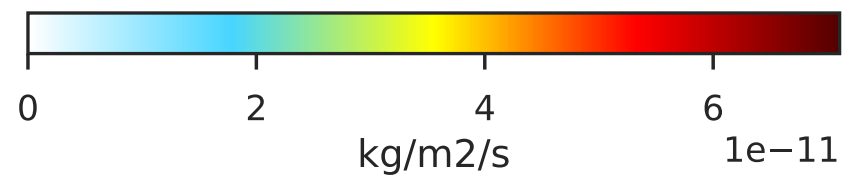
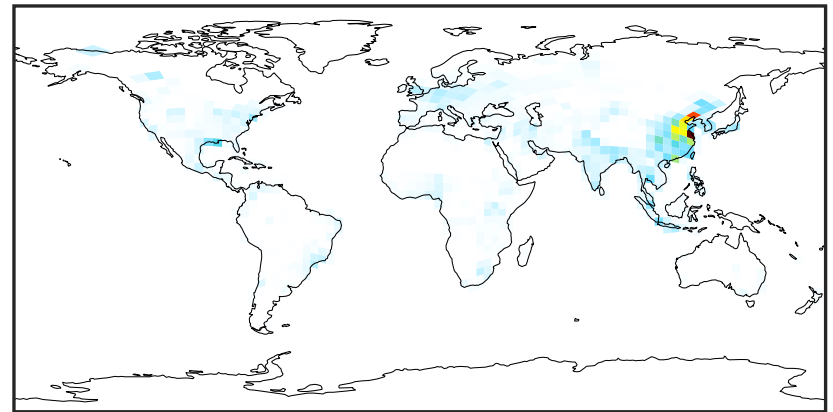


# EmisXYLE\_Anthro (Apr2019)

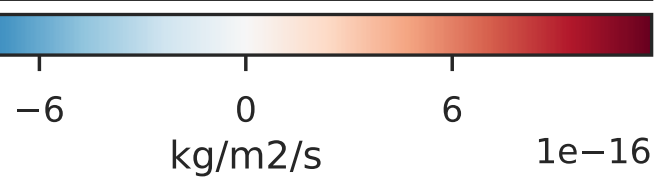
GCHP\_14.0.0 (Ref)  
c24



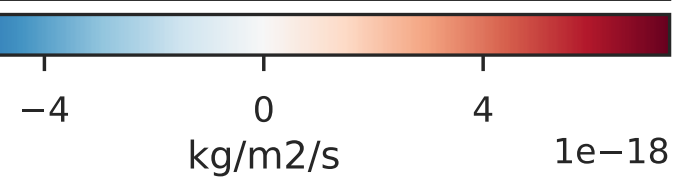
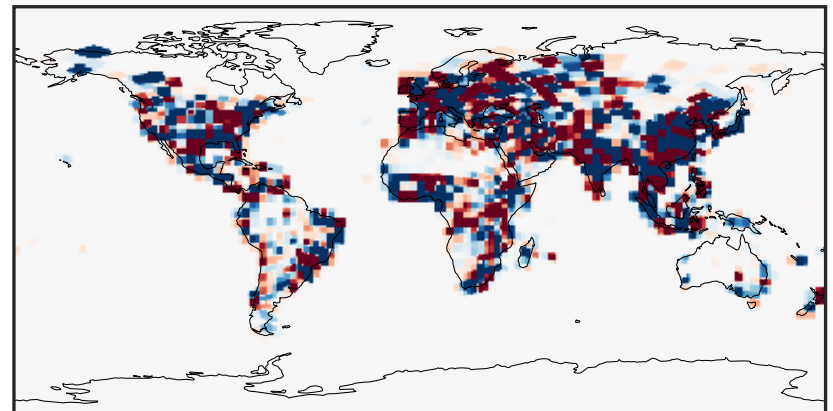
GCHP\_14.2.0 (Dev)  
c24



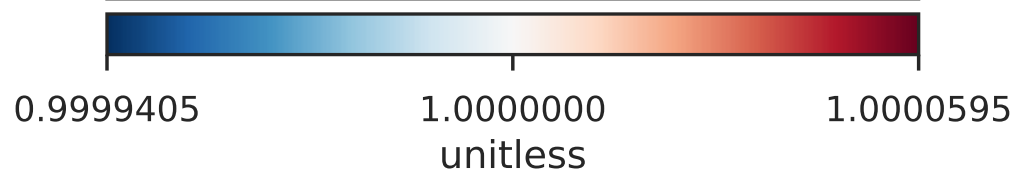
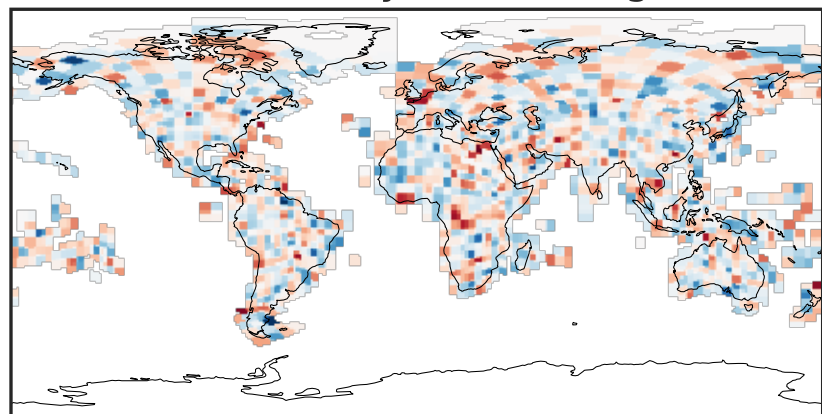
Difference (1x1.25)  
Dev - Ref, Dynamic Range



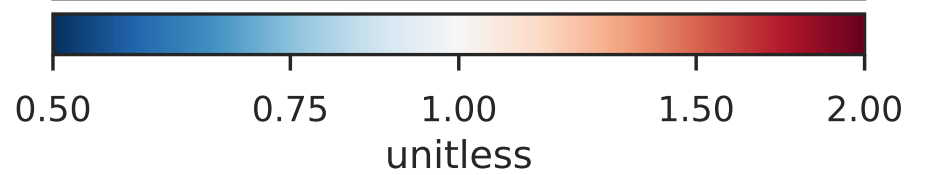
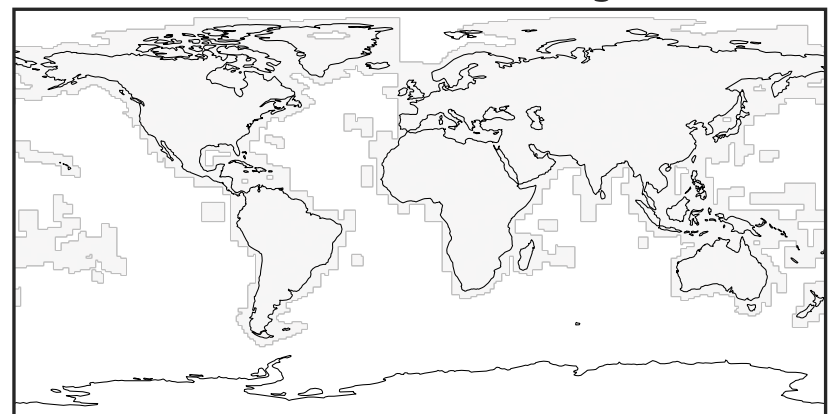
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



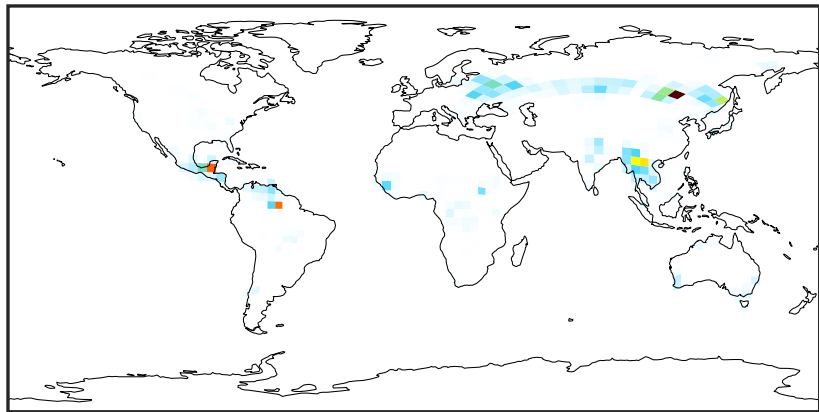
Ratio (1x1.25)  
Dev/Ref, Fixed Range





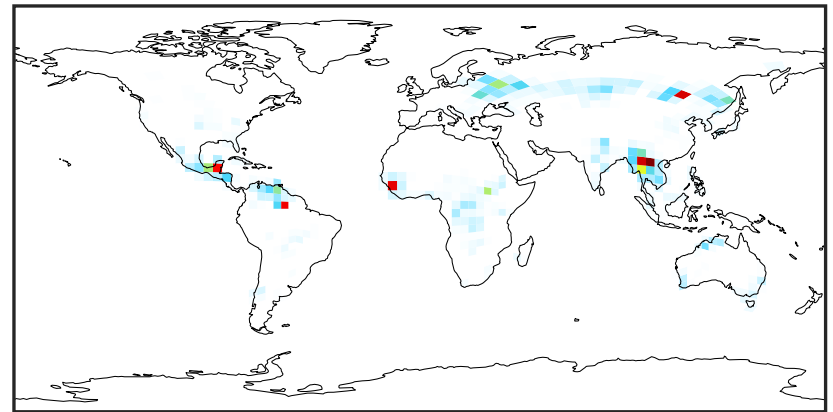
# EmisXYLE\_BioBurn (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



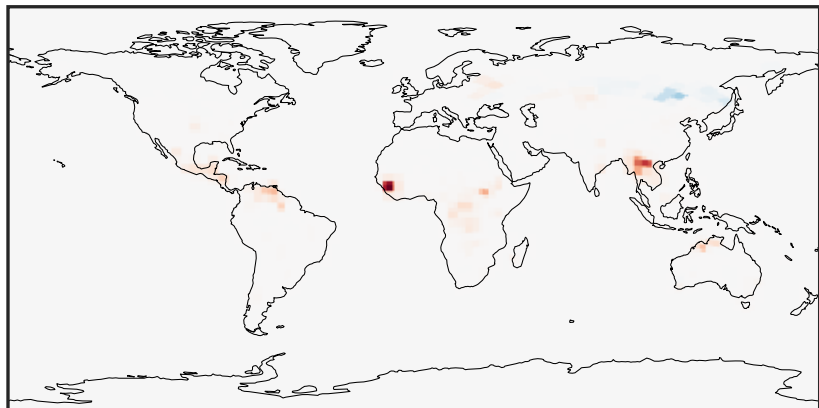
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-12

GCHP\_14.2.0 (Dev)  
c24



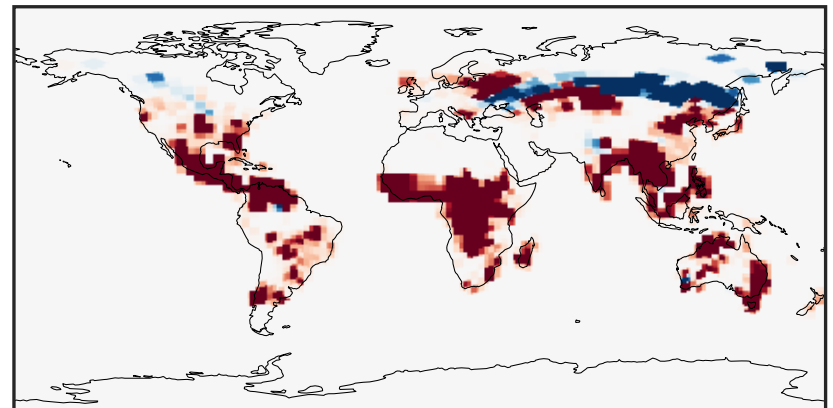
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-12

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



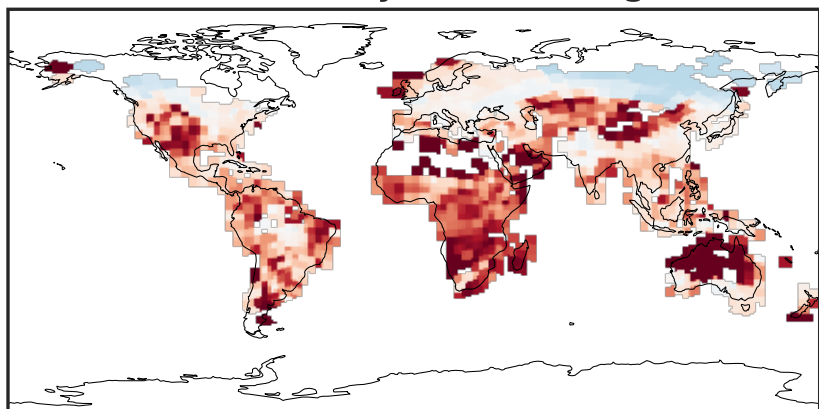
-8 0 8  
kg/m<sup>2</sup>/s 1e-13

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



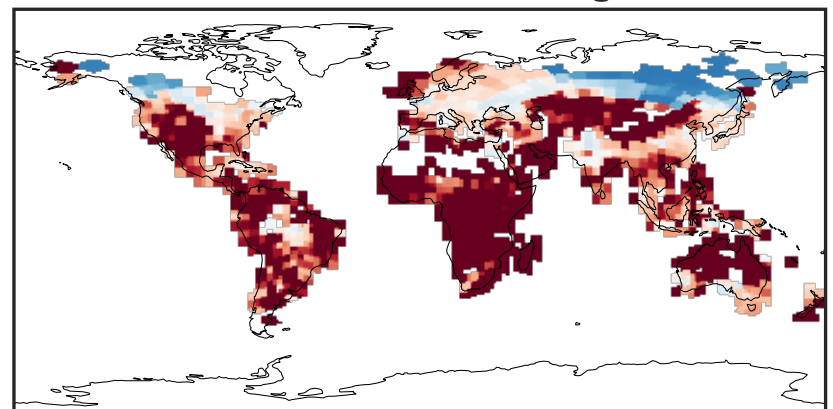
-3 0 3  
kg/m<sup>2</sup>/s 1e-15

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



0.163 0.581 1.000 3.572 6.143  
unitless

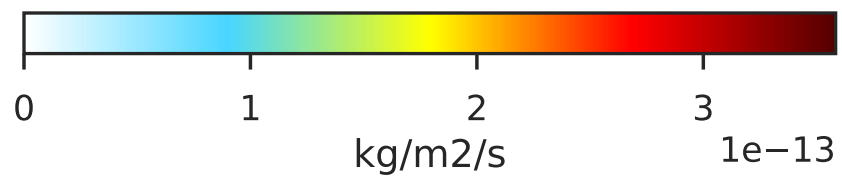
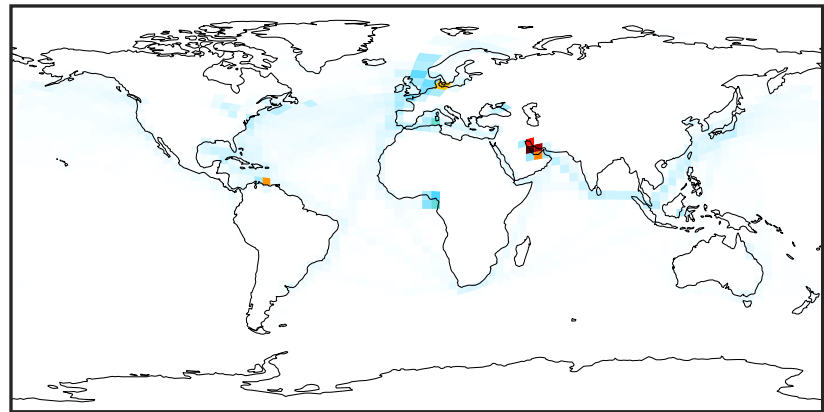
Ratio (1x1.25)  
Dev/Ref, Fixed Range



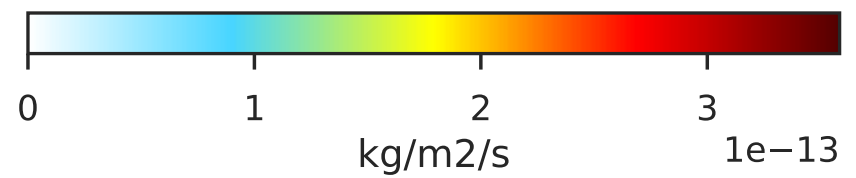
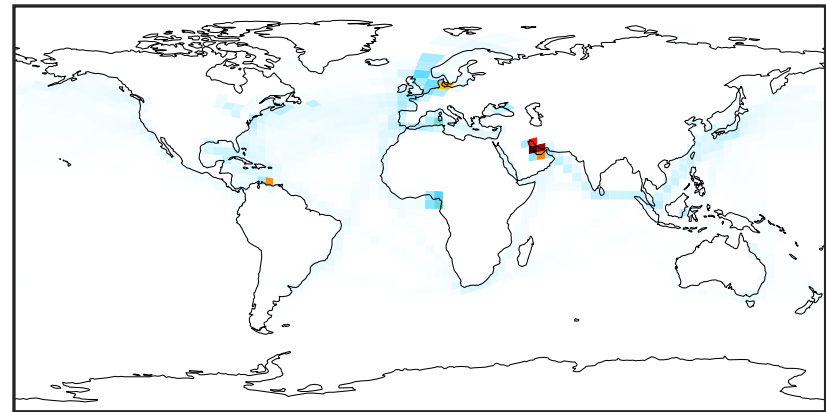
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisXYLE\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



GCHP\_14.2.0 (Dev)  
c24

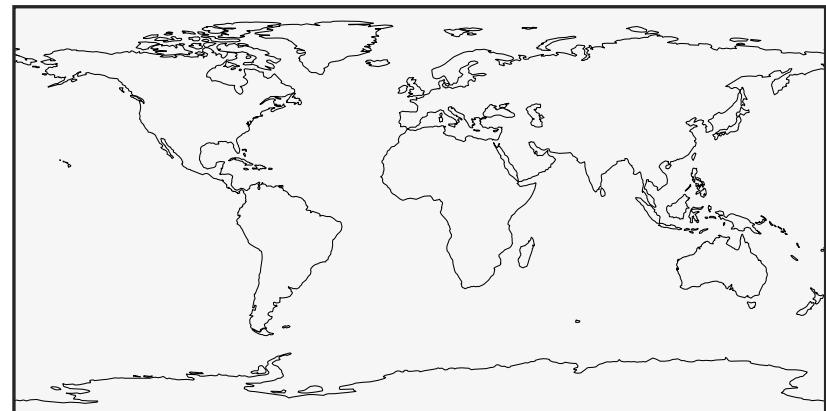


Difference (1x1.25)  
Dev - Ref, Dynamic Range



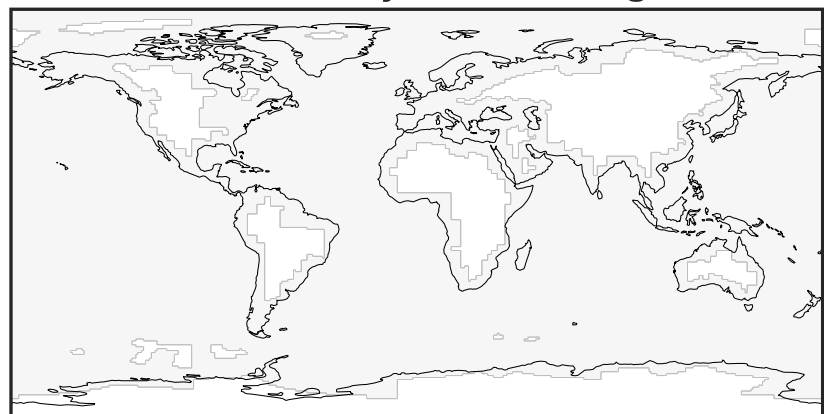
Zero throughout domain  
kg/m<sup>2</sup>/s

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



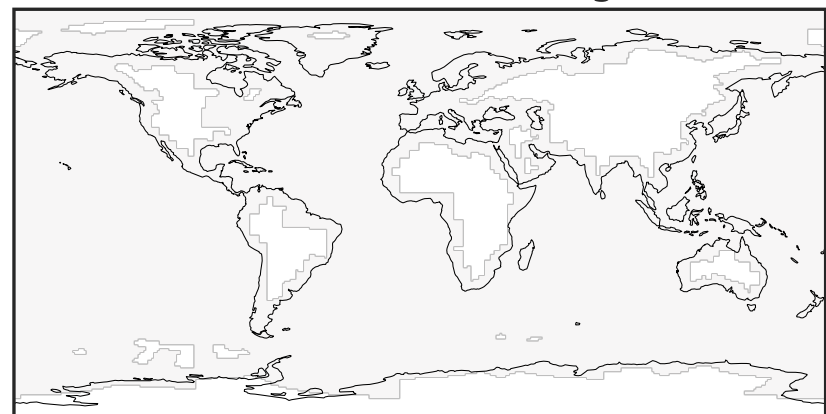
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

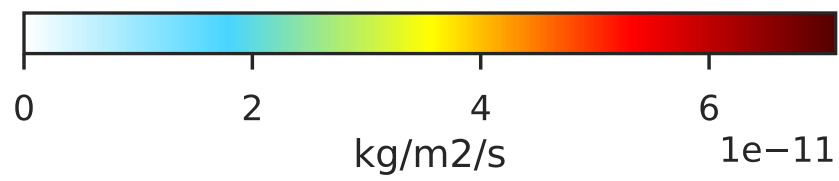
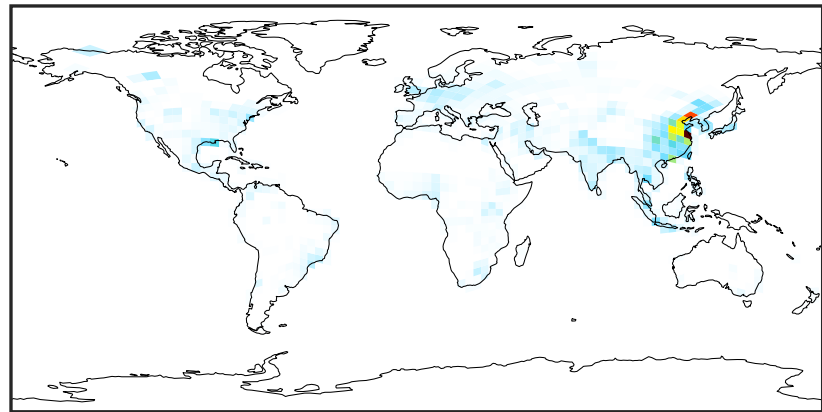
Ratio (1x1.25)  
Dev/Ref, Fixed Range



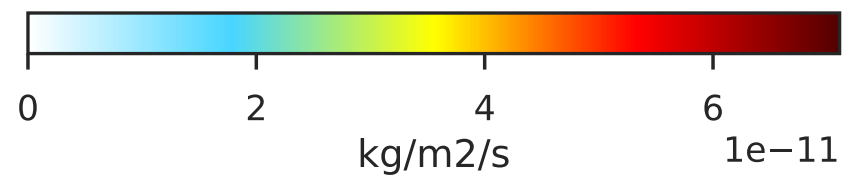
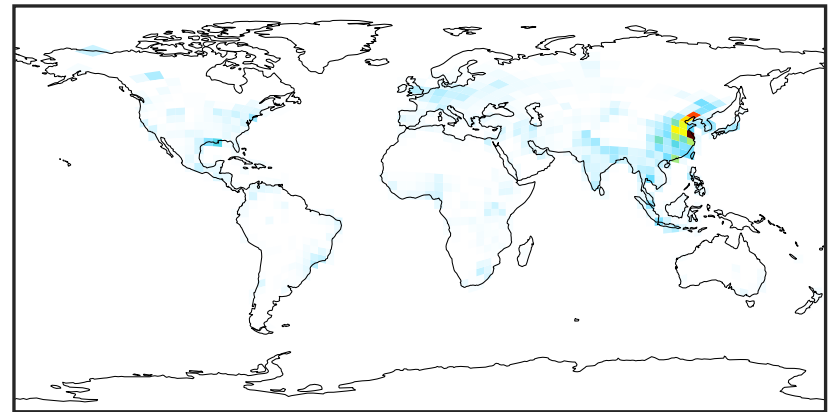
Ref and Dev equal throughout domain  
unitless

# EmisXYLE\_Total (Apr2019)

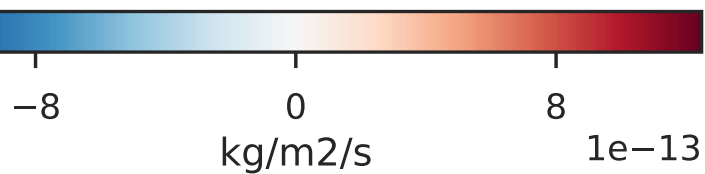
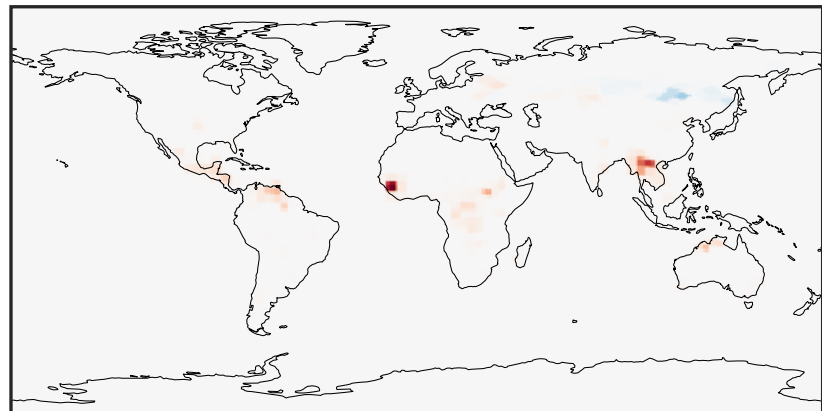
GCHP\_14.0.0 (Ref)  
c24



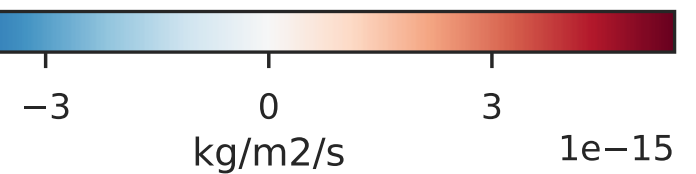
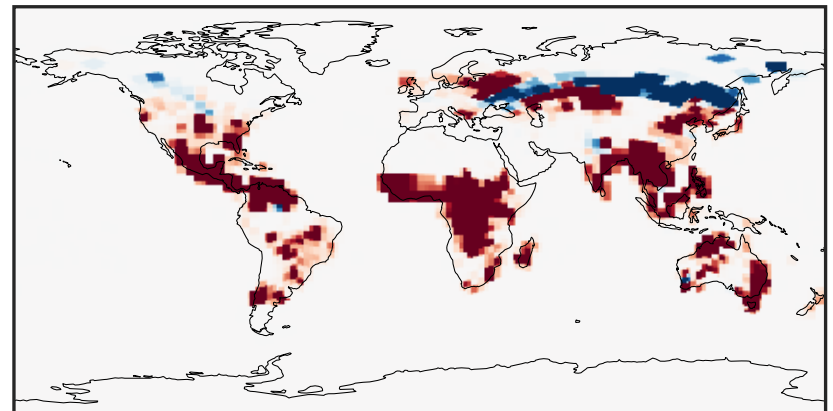
GCHP\_14.2.0 (Dev)  
c24



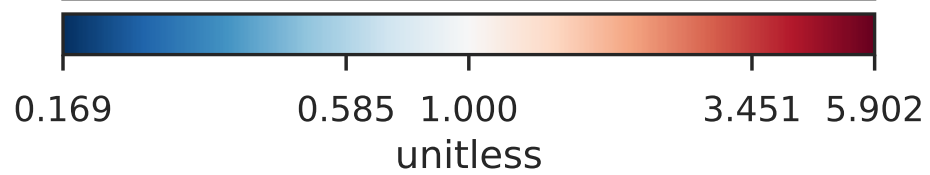
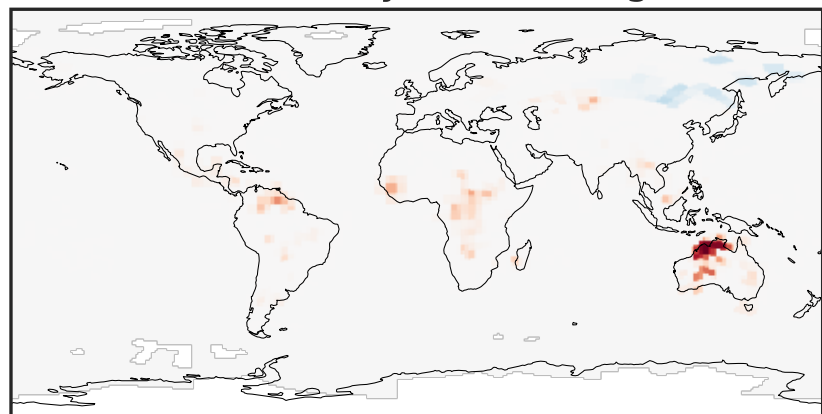
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

