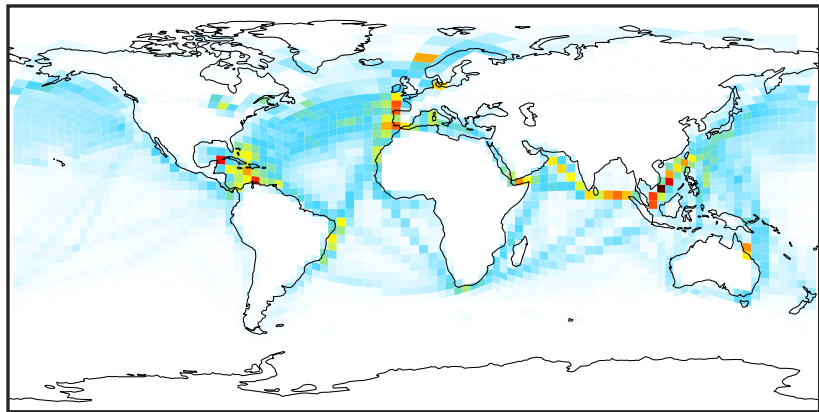


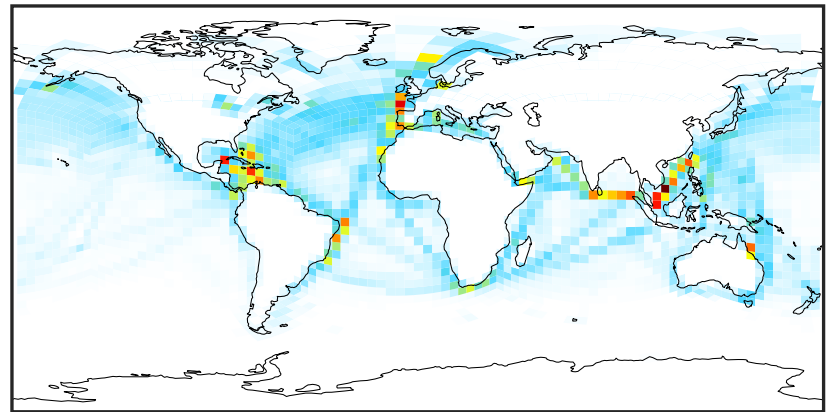
# EmisO3\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



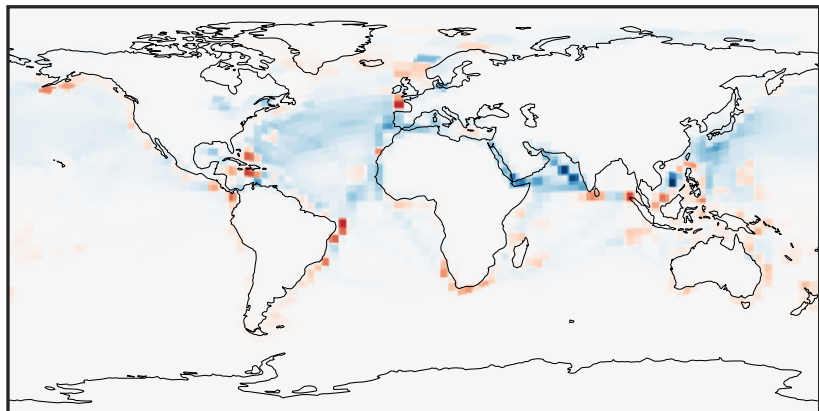
0.0 1.5 3.0 4.5  
kg/m2/s 1e-11

GCHP\_14.2.0 (Dev)  
c24



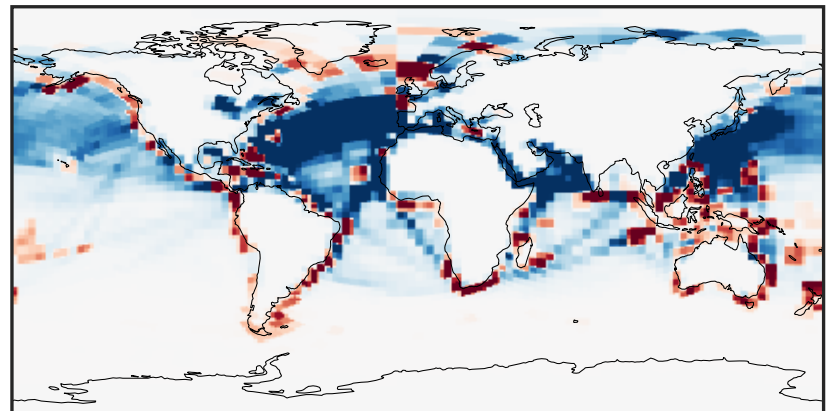
0.0 1.5 3.0 4.5  
kg/m2/s 1e-11

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



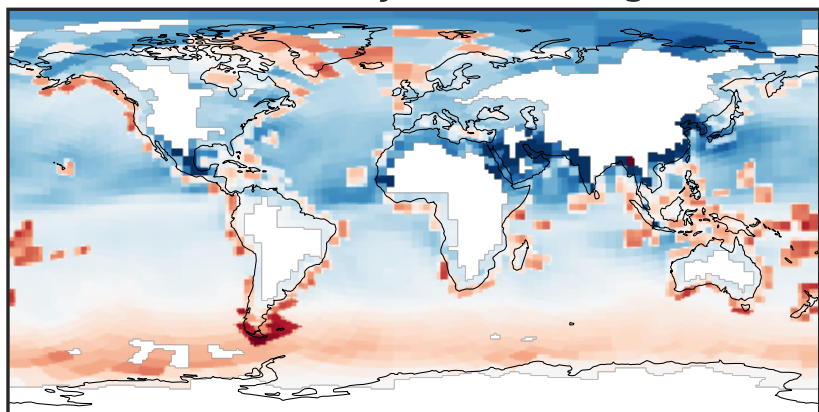
-4 0 4  
kg/m2/s 1e-12

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



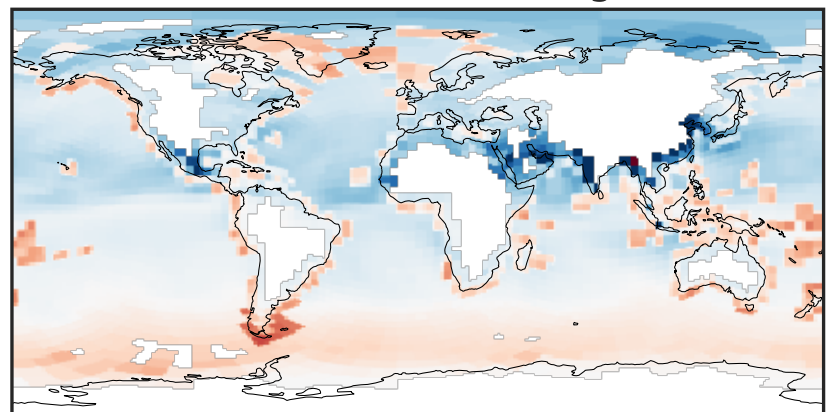
-6 0 6  
kg/m2/s 1e-13

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



0.6304 0.8152 1.0000 1.2932 1.5864  
unitless

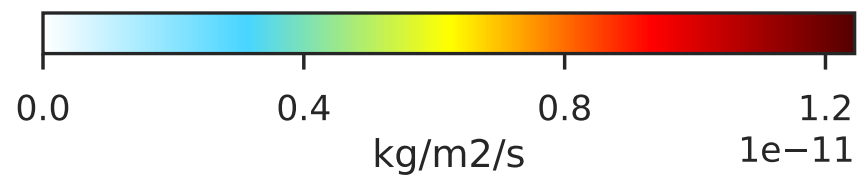
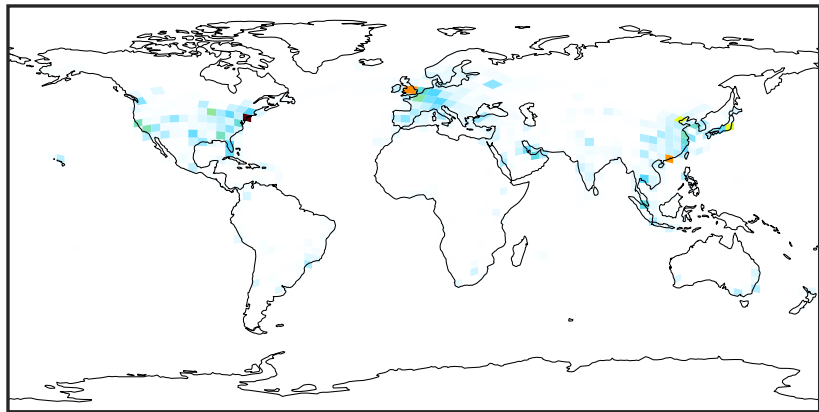
Ratio (1x1.25)  
Dev/Ref, Fixed Range



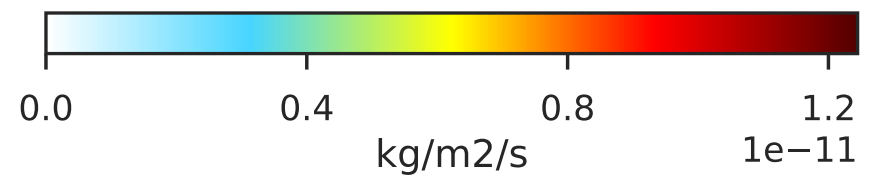
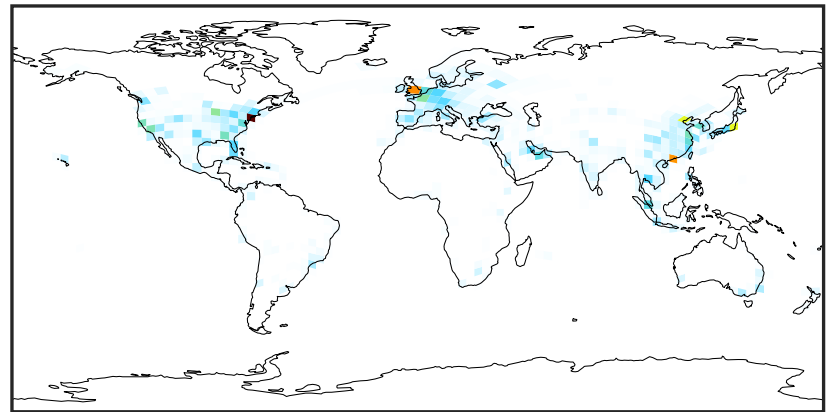
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisCO\_Aircraft (Apr2019)

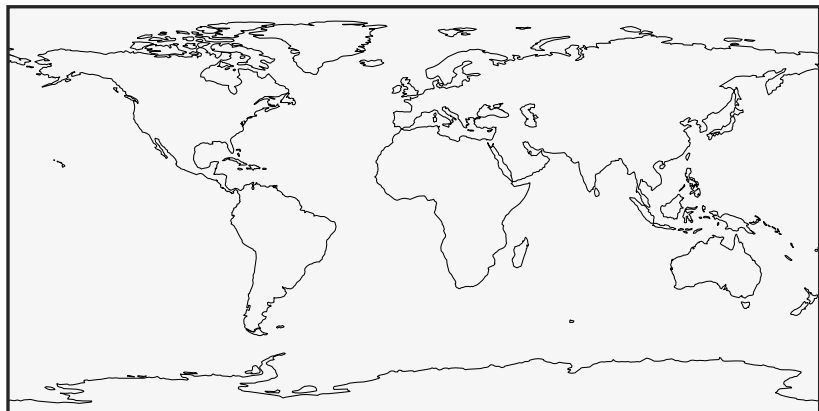
GCHP\_14.0.0 (Ref)  
c24



GCHP\_14.2.0 (Dev)  
c24

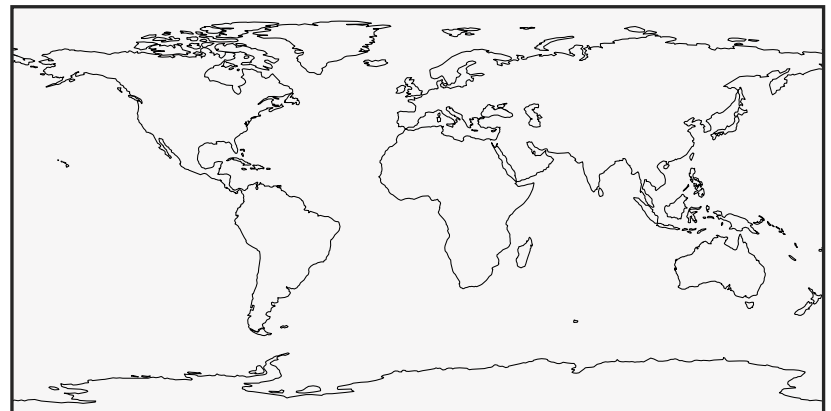


Difference (1x1.25)  
Dev - Ref, Dynamic Range



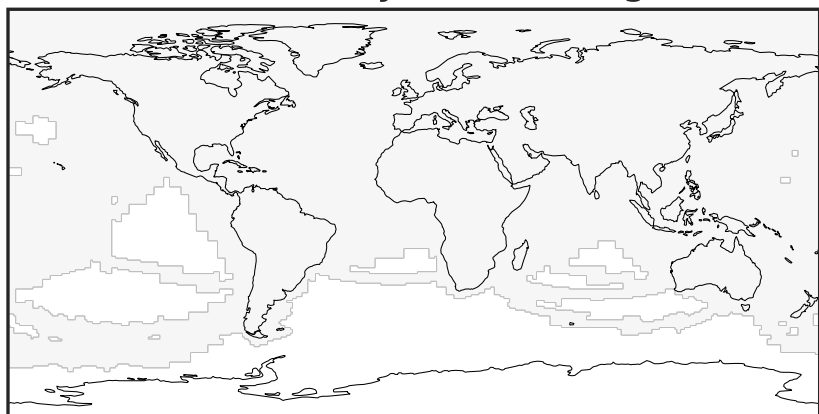
Zero throughout domain  
kg/m2/s

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



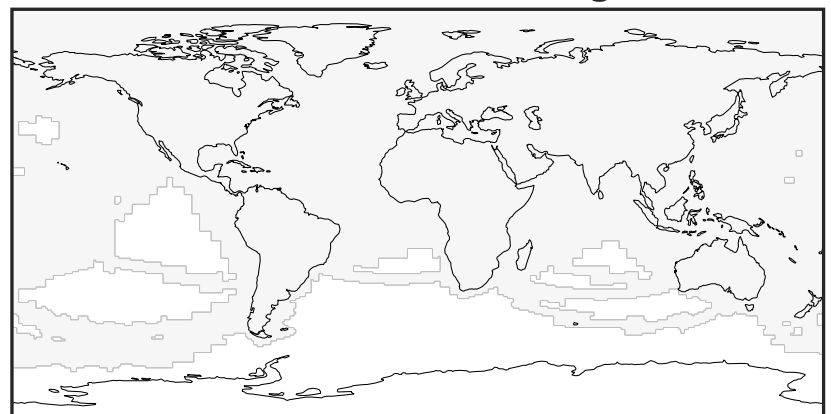
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

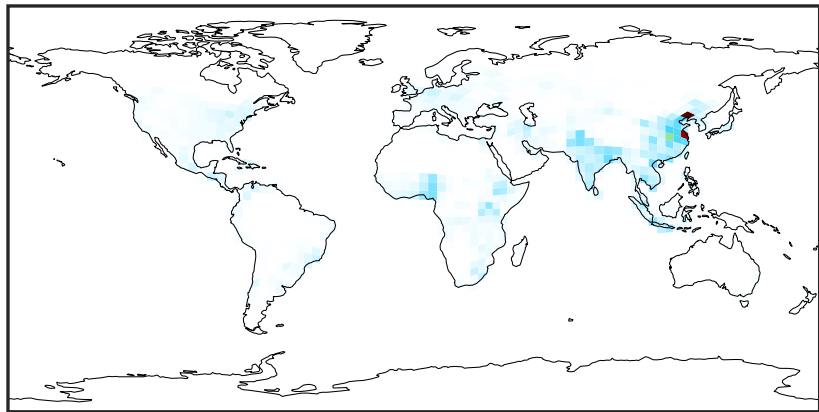
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

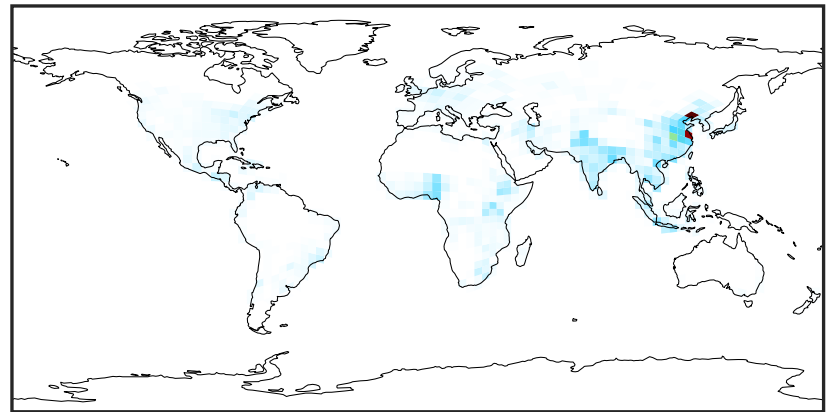
# EmisCO\_Anthro (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



0.0 1.5 3.0 4.5  
kg/m2/s  $1e-9$

GCHP\_14.2.0 (Dev)  
c24



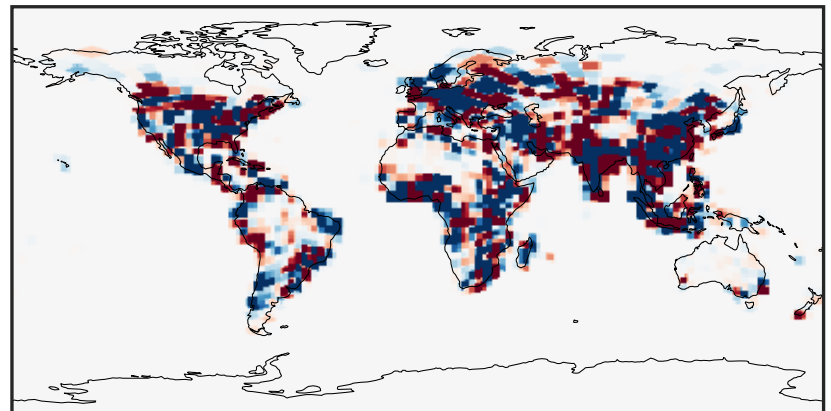
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-9$

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



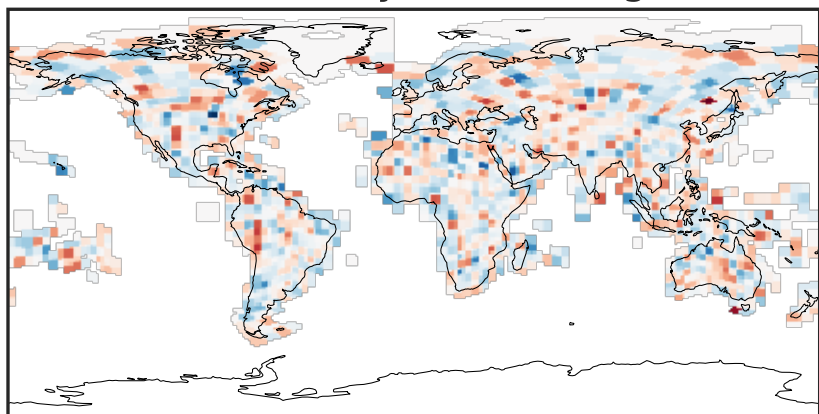
-1 0 1  
kg/m2/s  $1e-13$

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



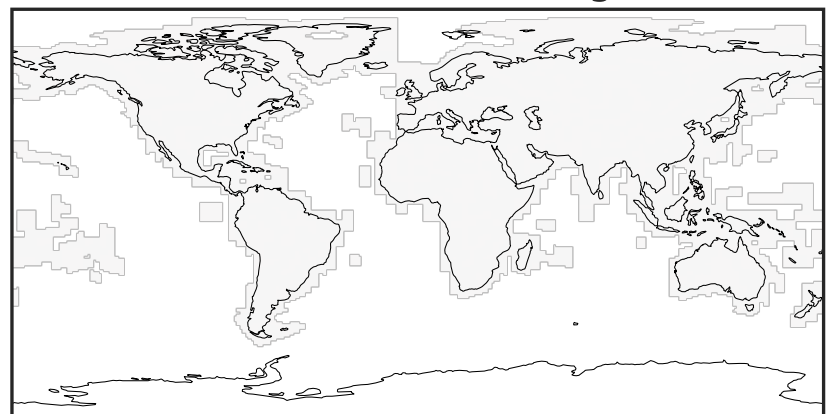
-3 0 3  
kg/m2/s  $1e-16$

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



0.9999263 1.000000 1.0000737  
unitless

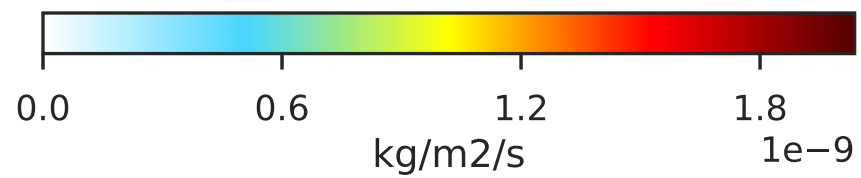
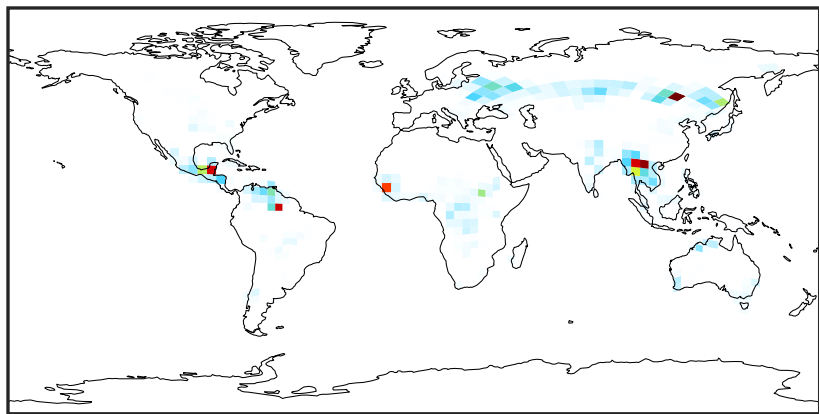
Ratio (1x1.25)  
Dev/Ref, Fixed Range



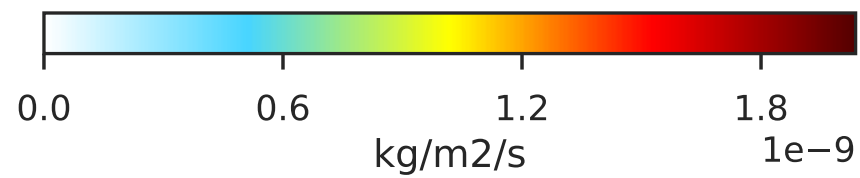
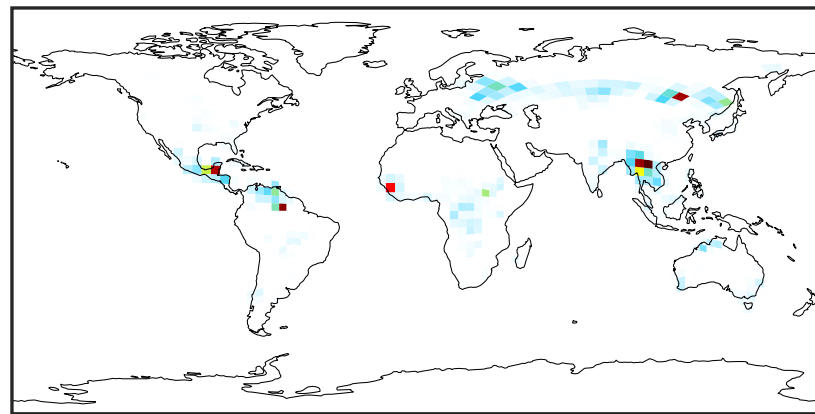
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisCO\_BioBurn (Apr2019)

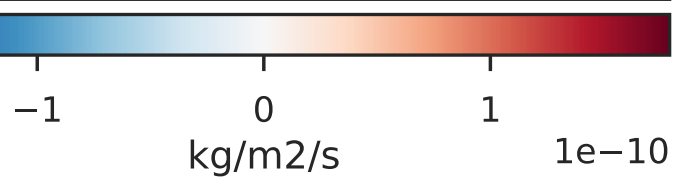
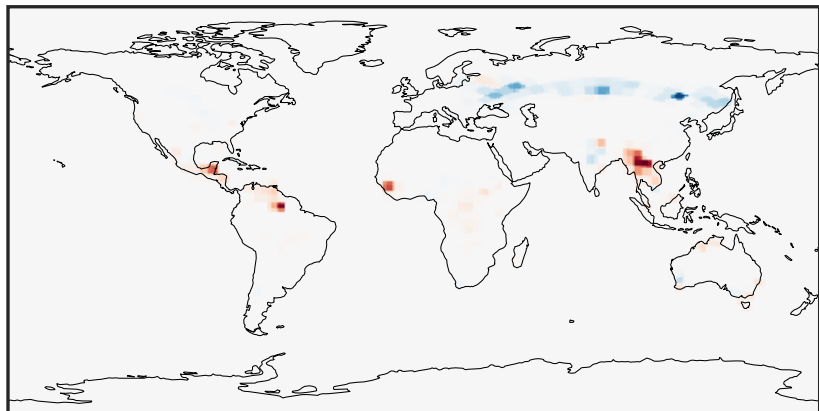
GCHP\_14.0.0 (Ref)  
c24



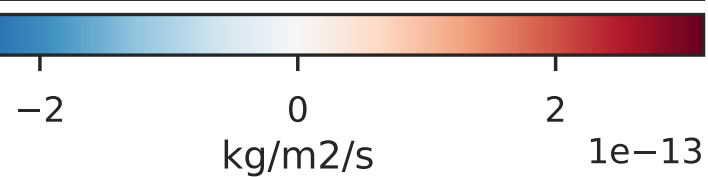
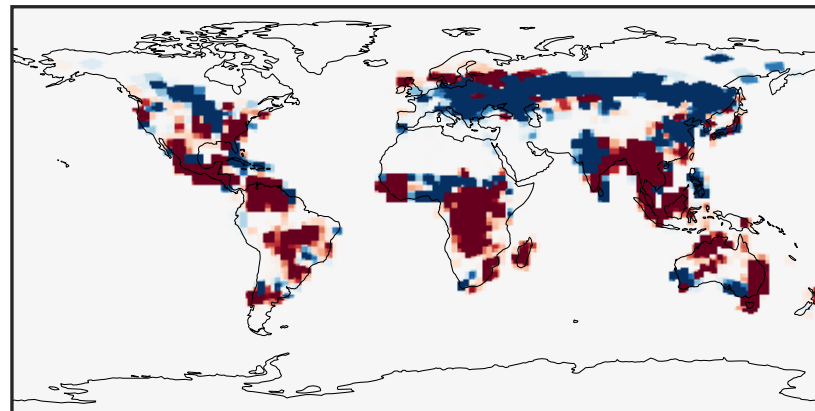
GCHP\_14.2.0 (Dev)  
c24



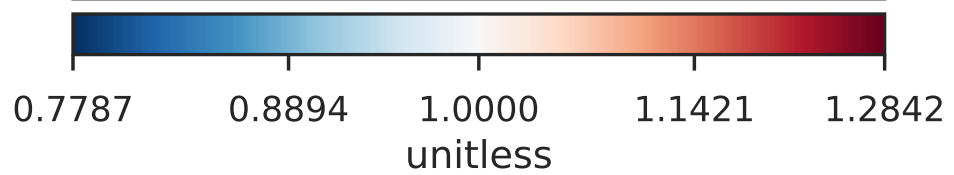
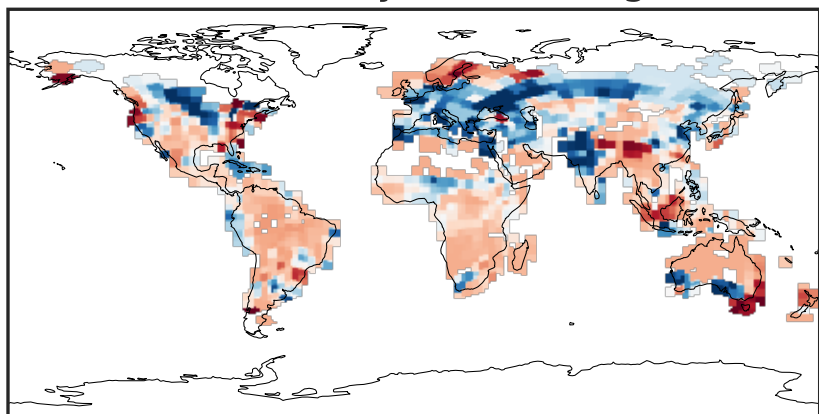
Difference (1x1.25)  
Dev - Ref, Dynamic Range



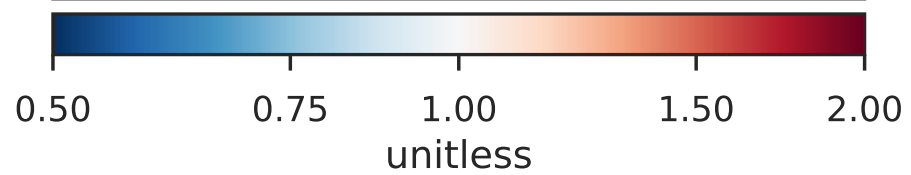
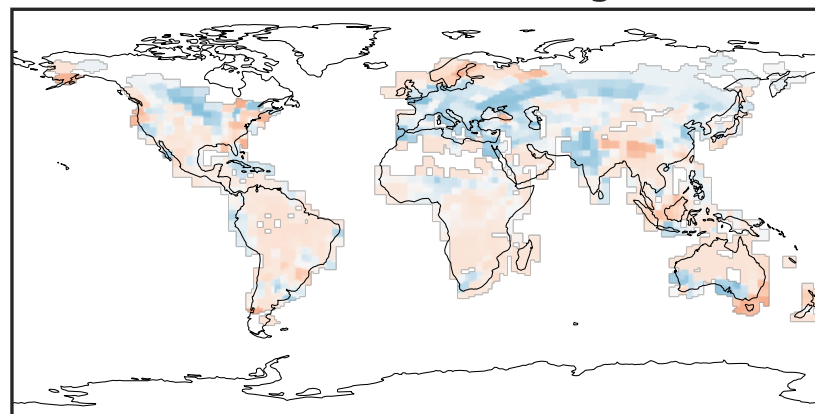
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

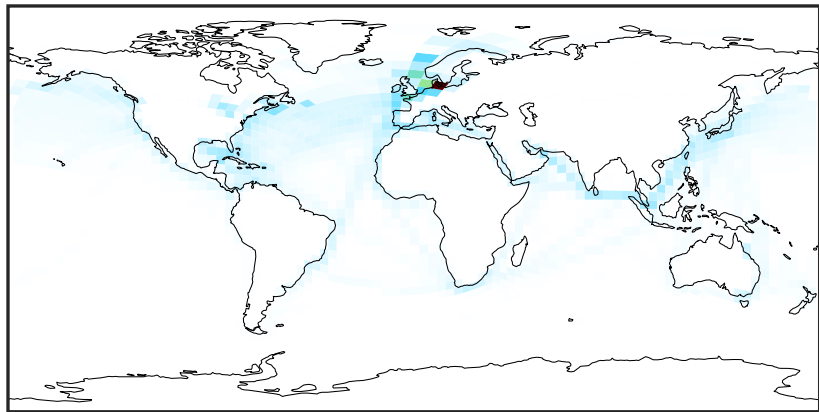


Ratio (1x1.25)  
Dev/Ref, Fixed Range



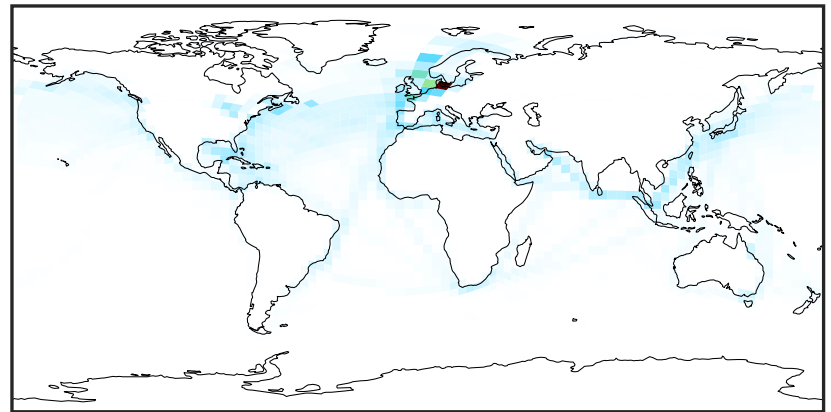
# EmisCO\_Ship (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



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

GCHP\_14.2.0 (Dev)  
c24



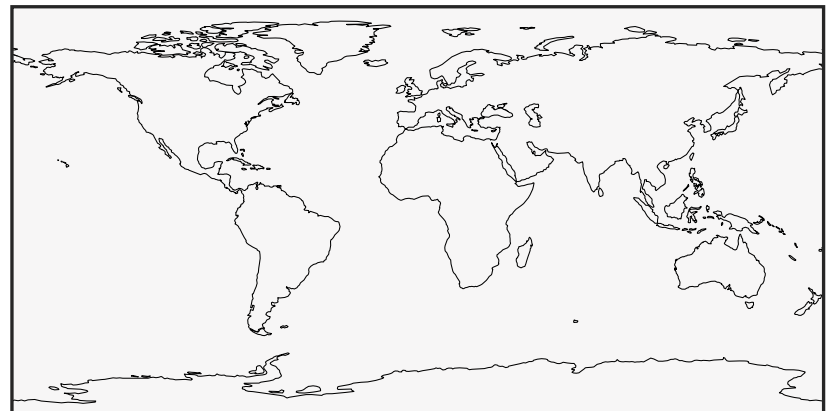
0.0 1.5 3.0  $1e-12$   
kg/m<sup>2</sup>/s

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



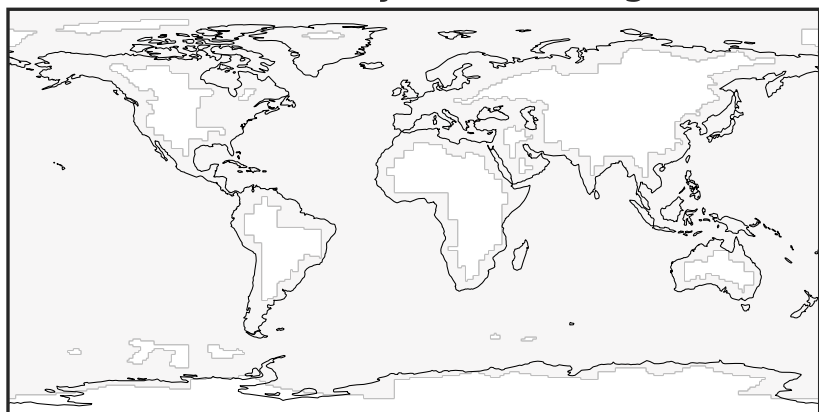
Zero throughout domain  
kg/m<sup>2</sup>/s

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



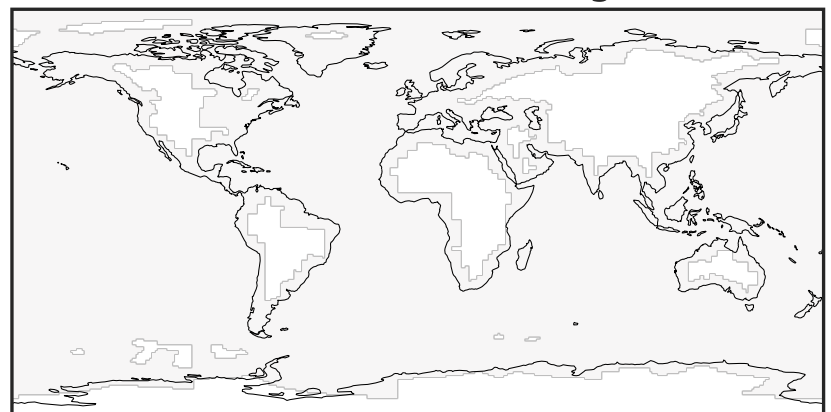
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

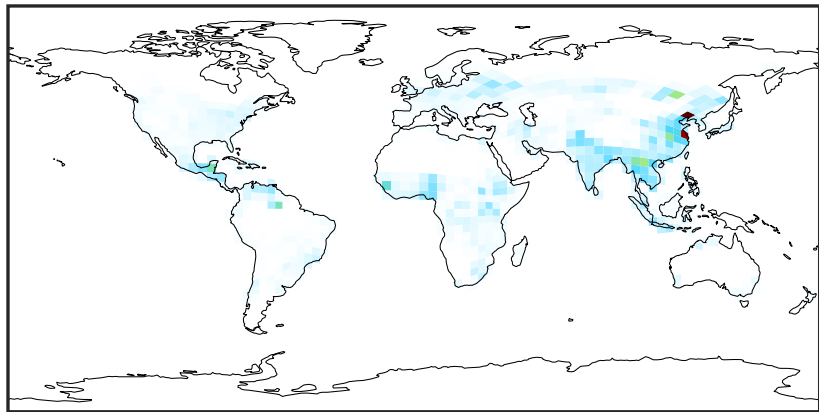
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

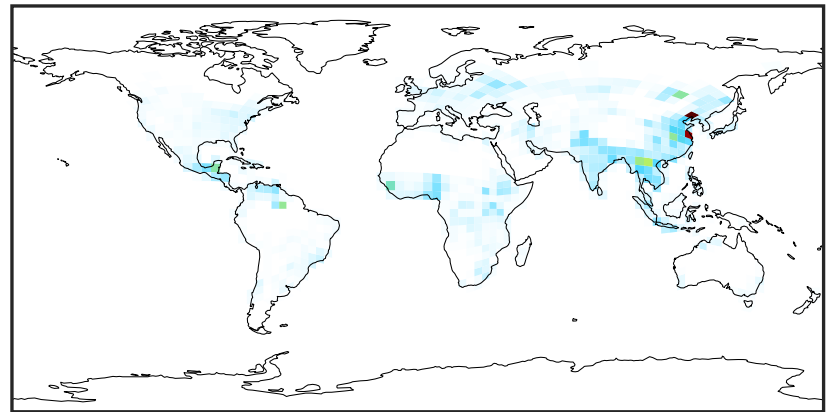
# EmisCO\_Total (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



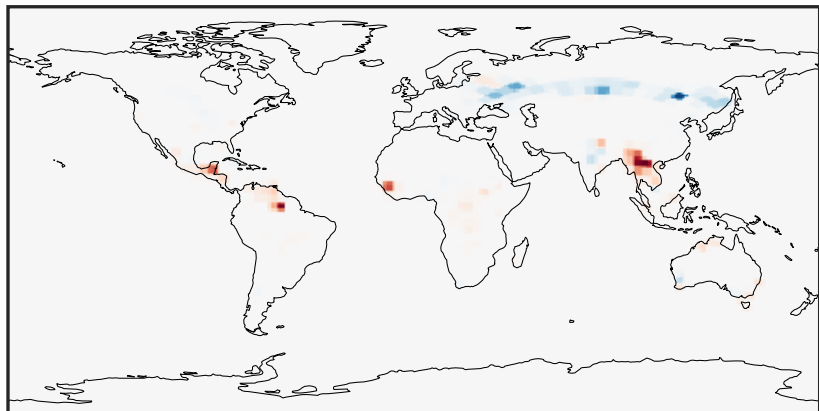
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-9$

GCHP\_14.2.0 (Dev)  
c24



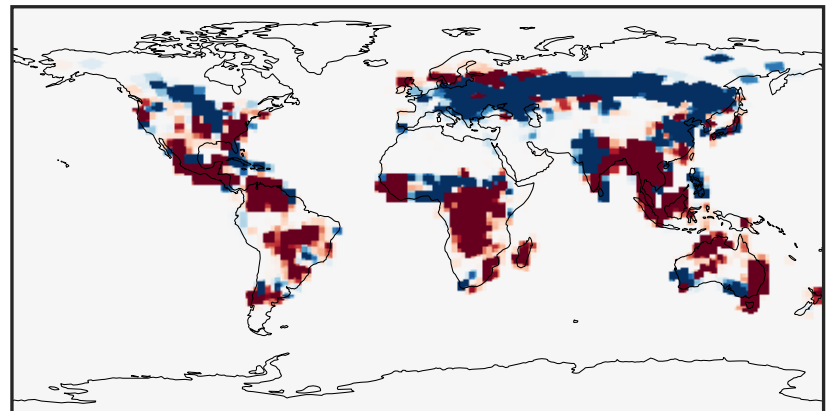
0.0 1.5 3.0 4.5  
kg/m2/s  $1e-9$

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



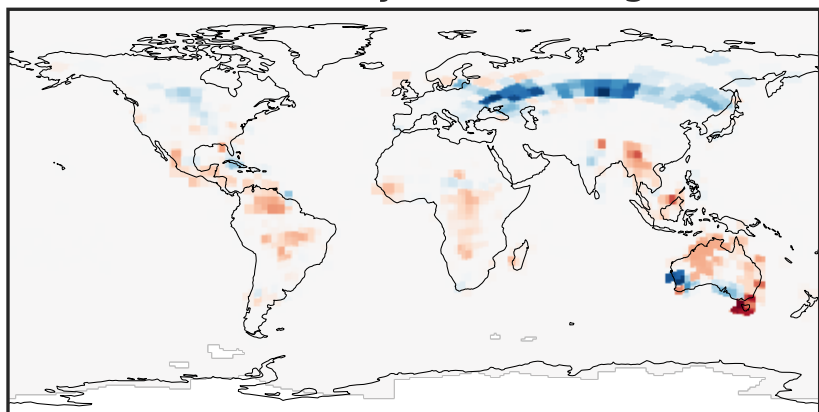
-1 0 1  
kg/m2/s  $1e-10$

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



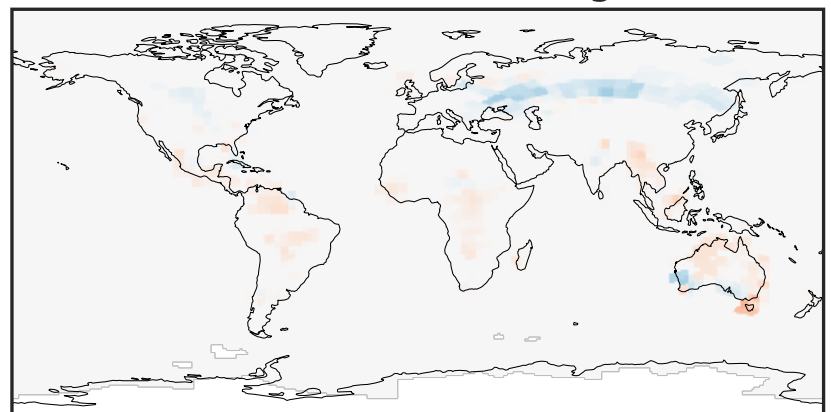
-2 0 2  
kg/m2/s  $1e-13$

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



0.7895 0.8947 1.0000 1.1333 1.2666  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless