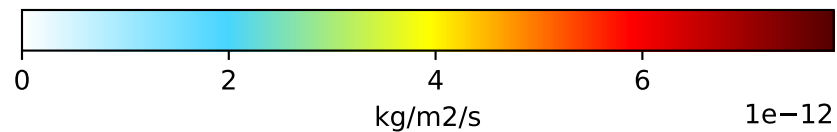
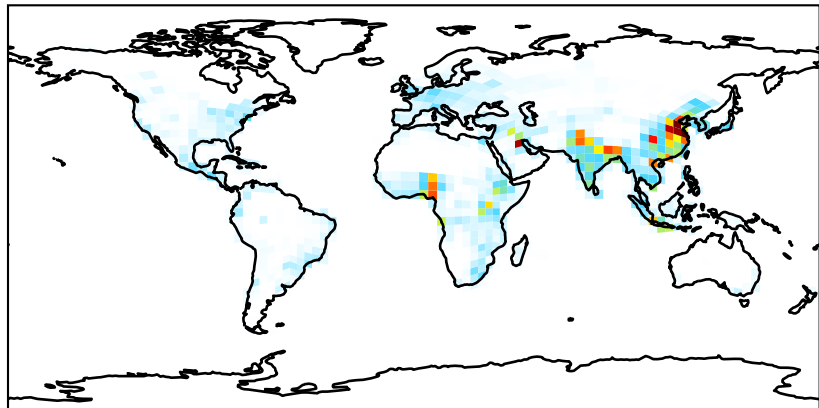
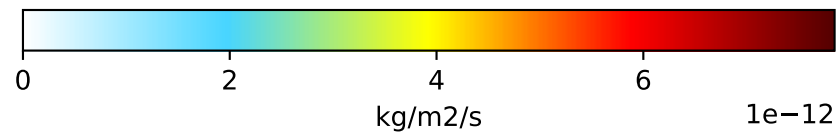
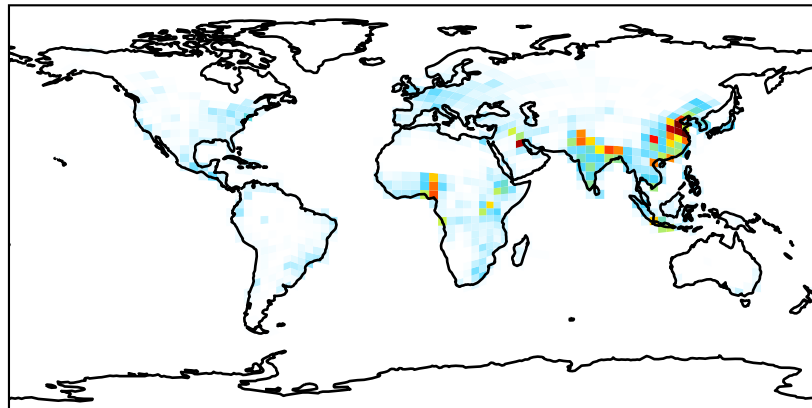


# EmisEOH\_Anthro

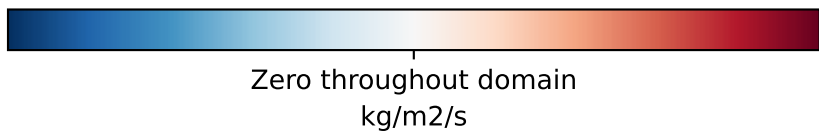
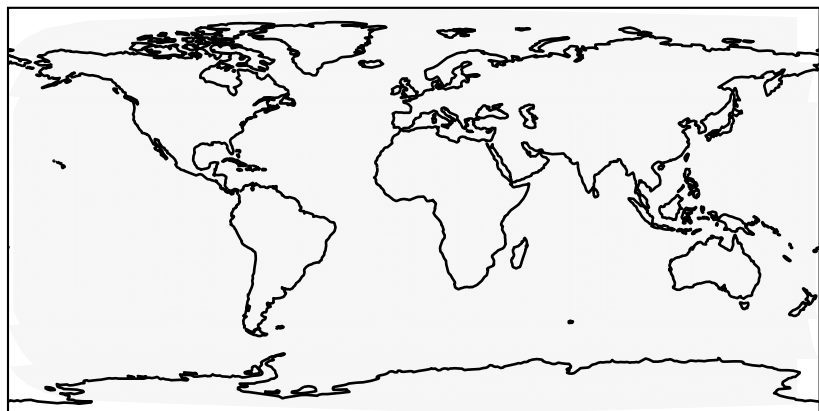
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



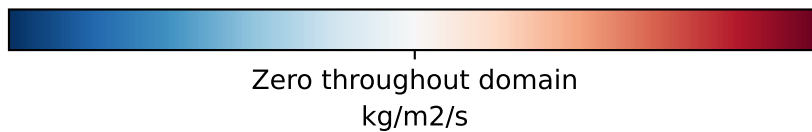
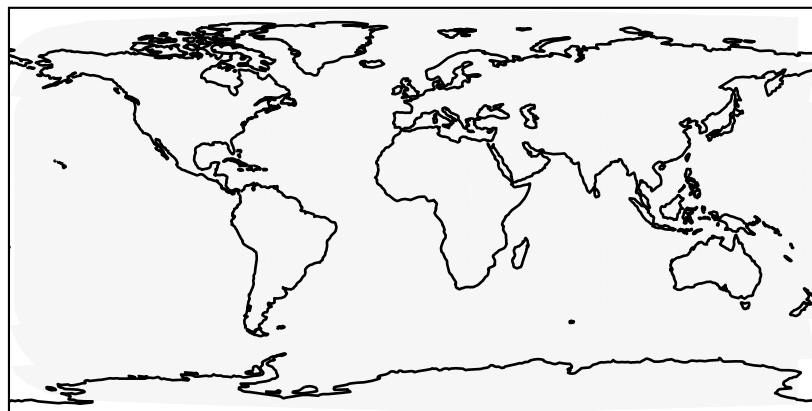
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



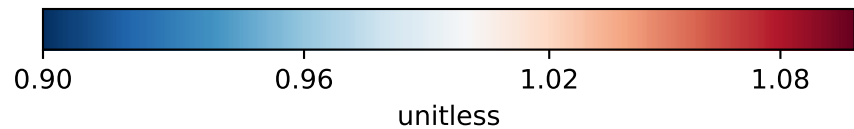
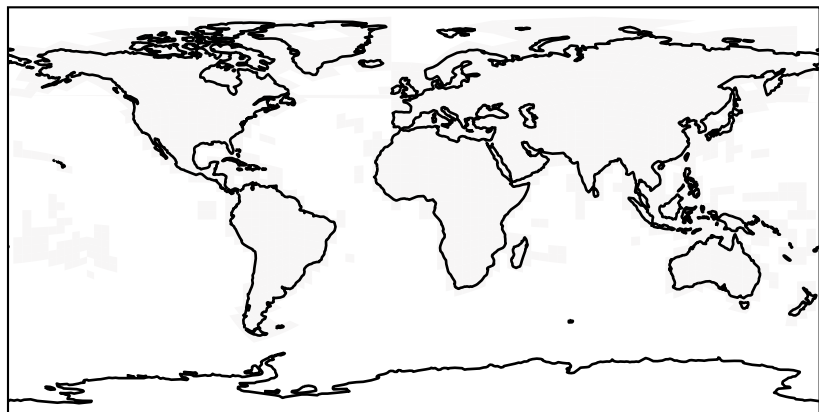
Difference  
Dev - Ref, Dynamic Range



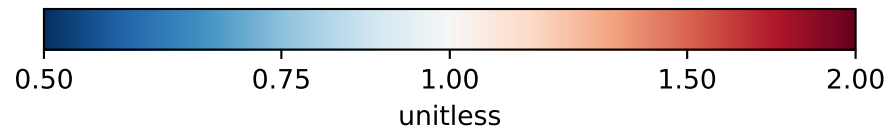
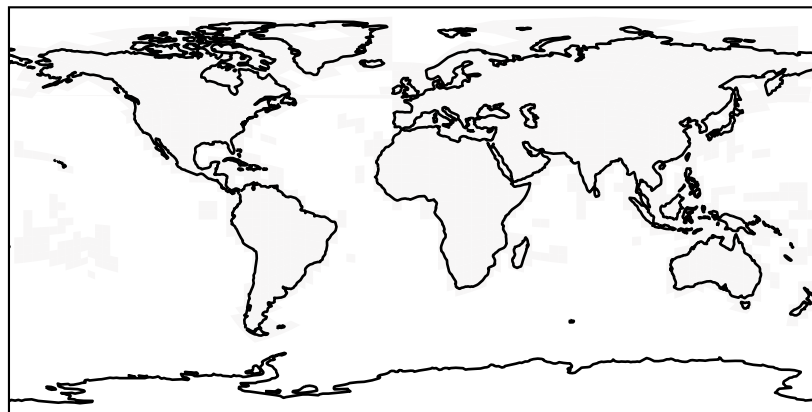
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

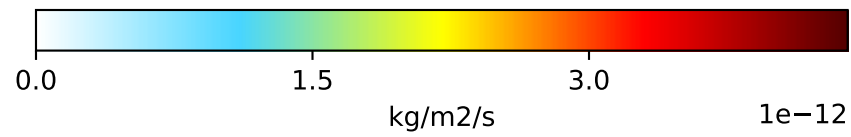
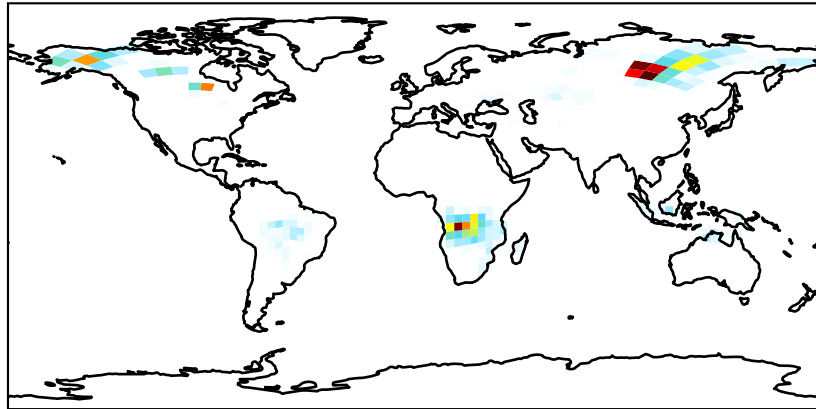


Ratio  
Dev/Ref, Fixed Range

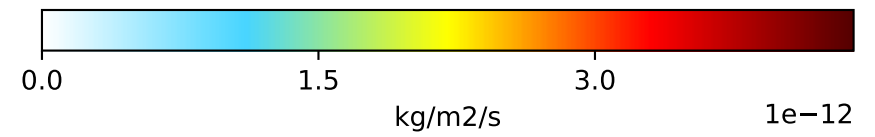
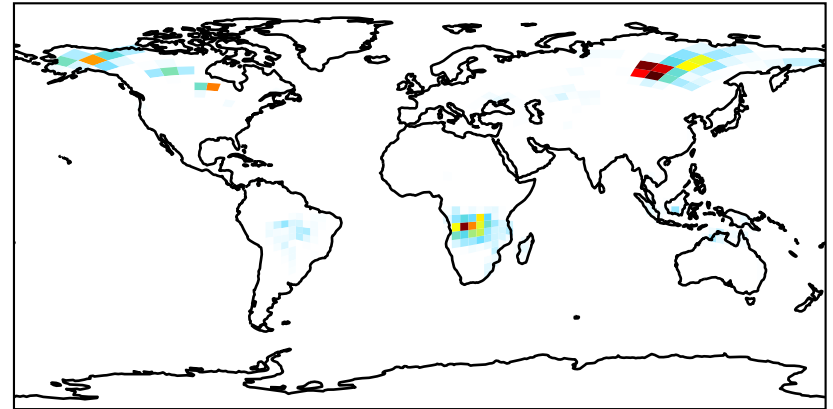


# EmisEOH\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



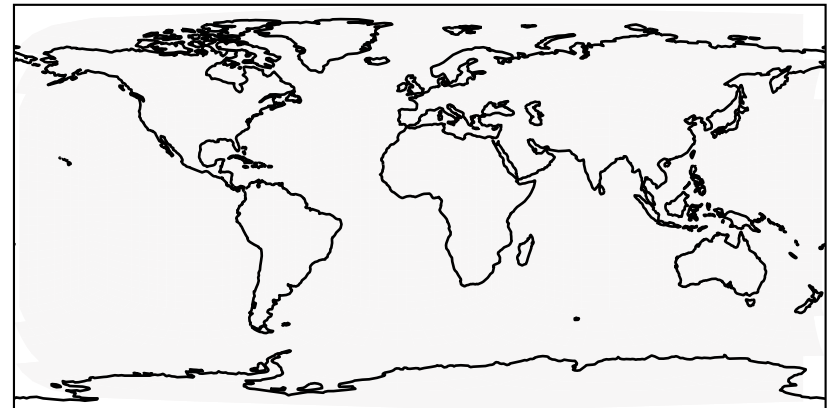
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



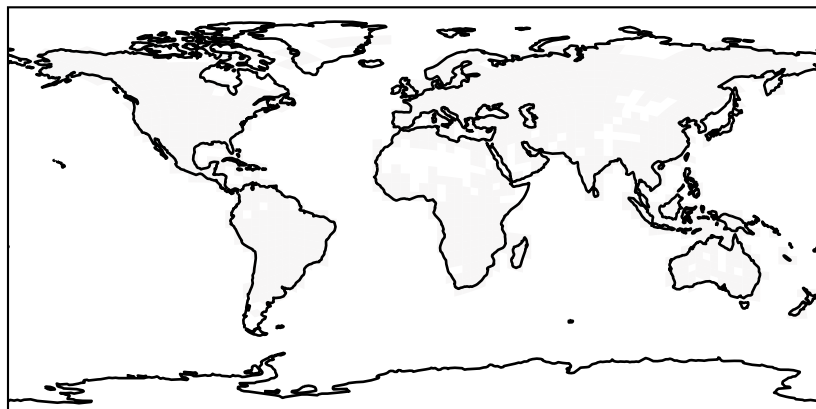
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

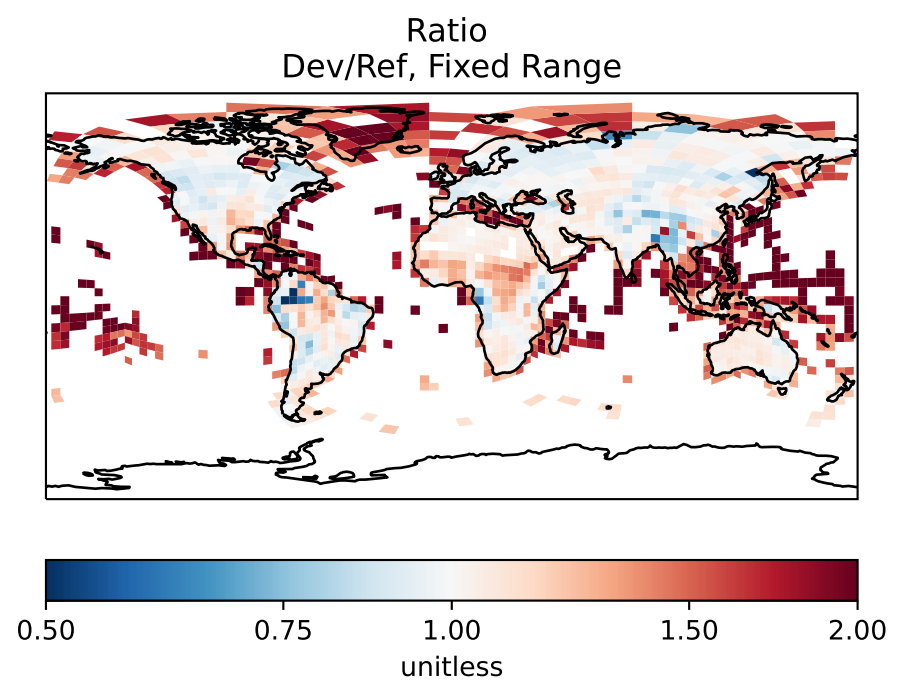
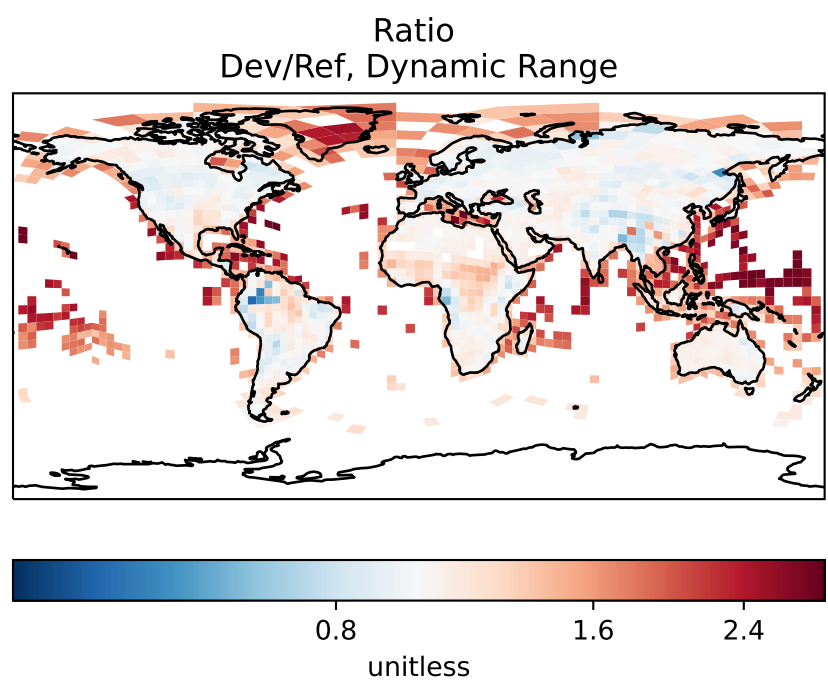
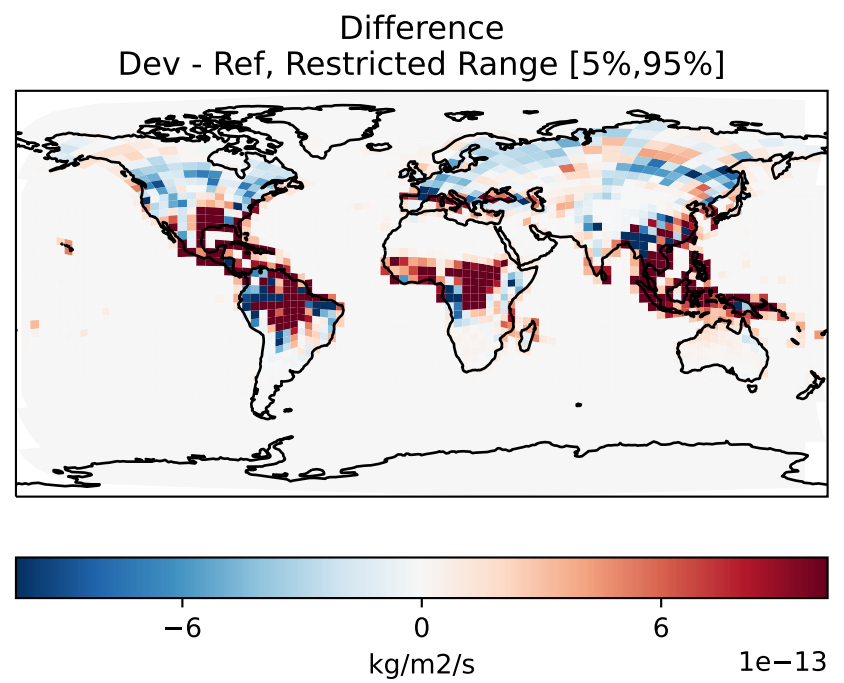
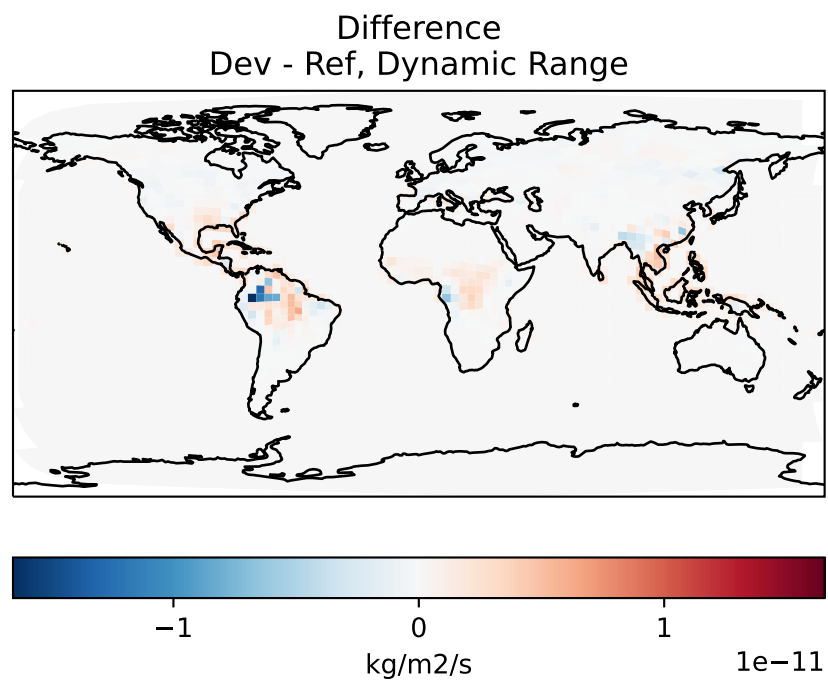
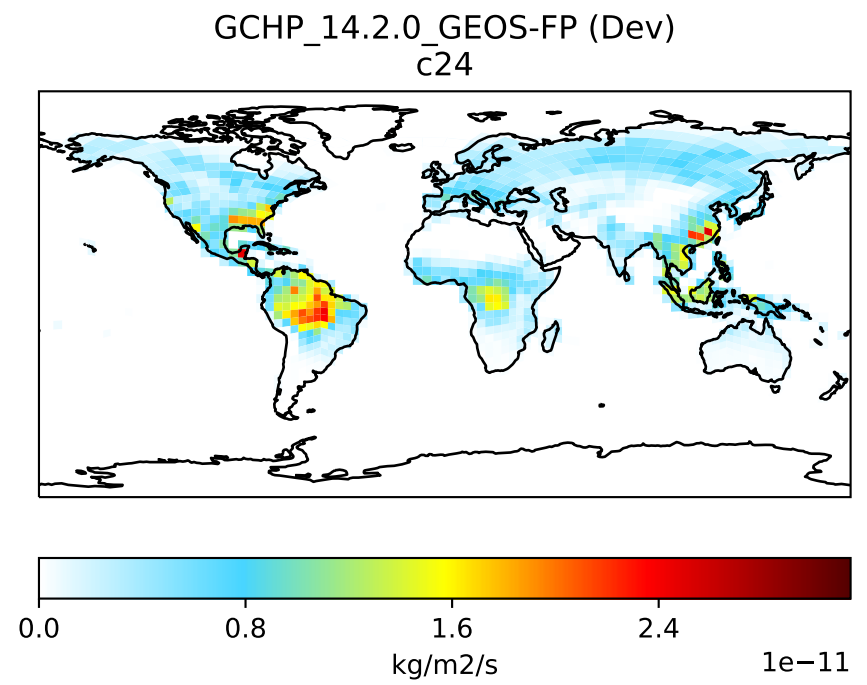
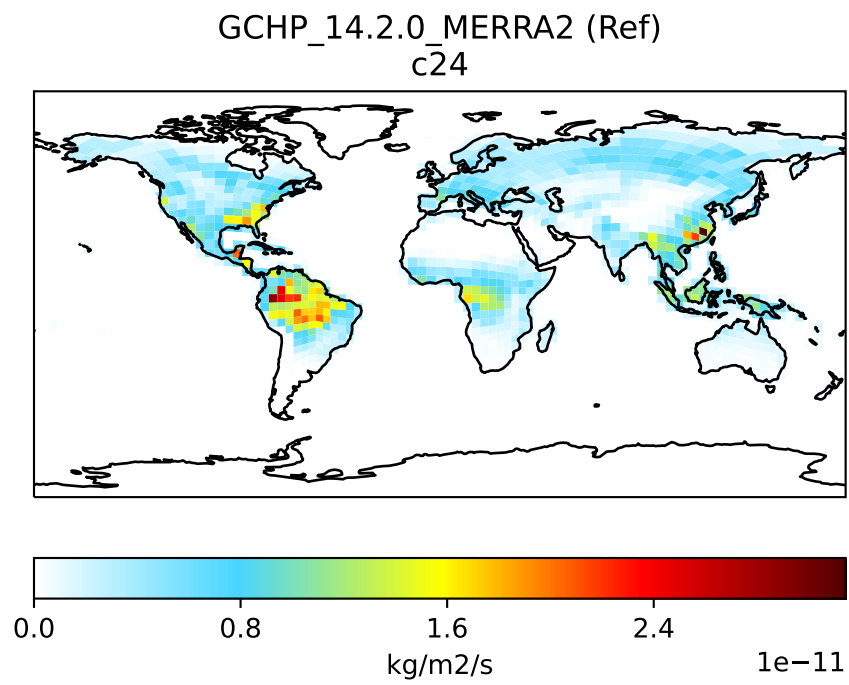


Ratio  
Dev/Ref, Fixed Range



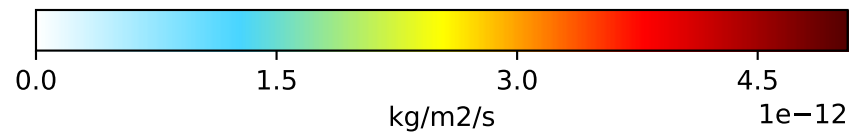
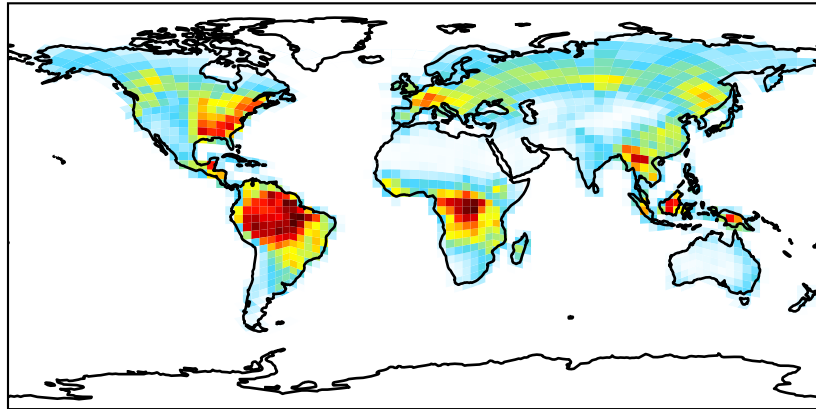


# EmisEOH\_Biogenic

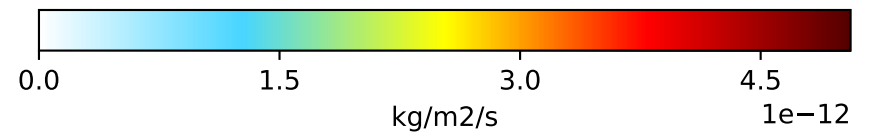
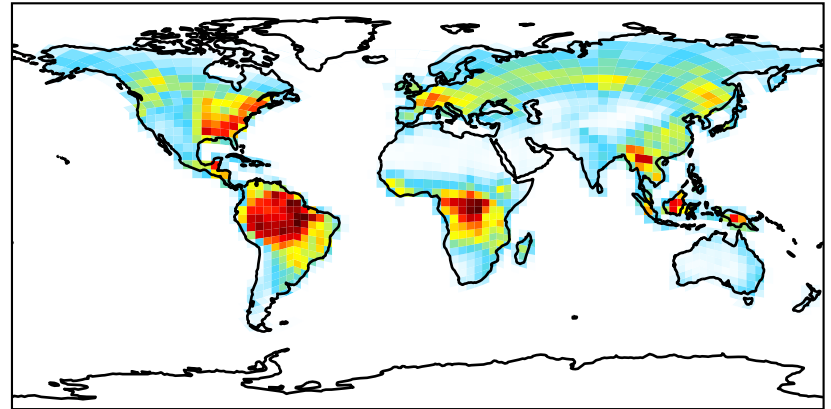


# EmisEOH\_PlantDecay

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



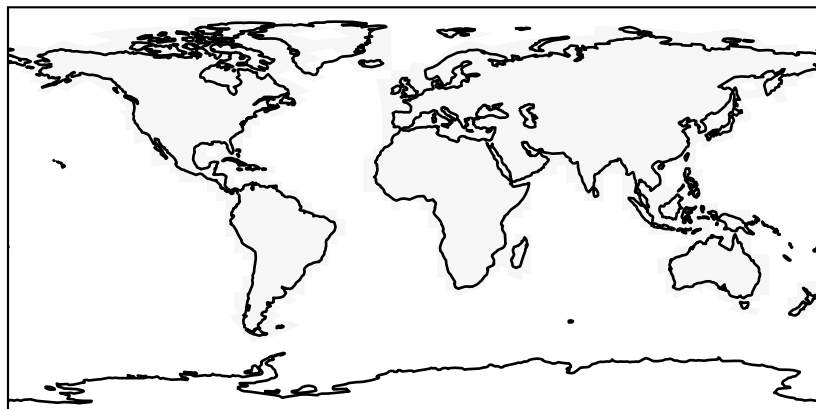
Difference  
Dev - Ref, Dynamic Range



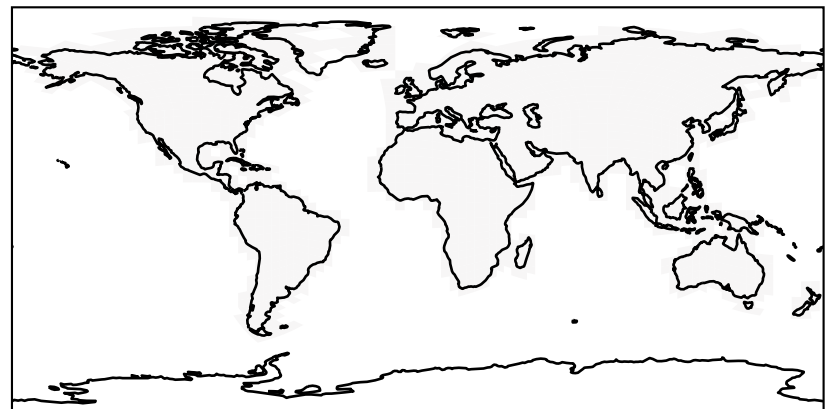
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

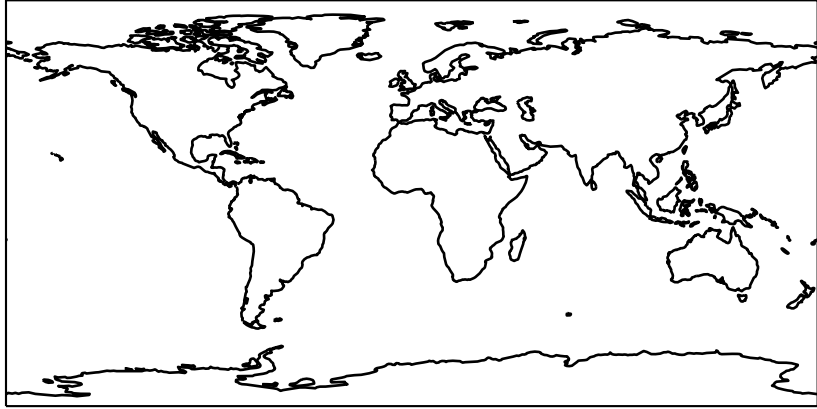


Ratio  
Dev/Ref, Fixed Range



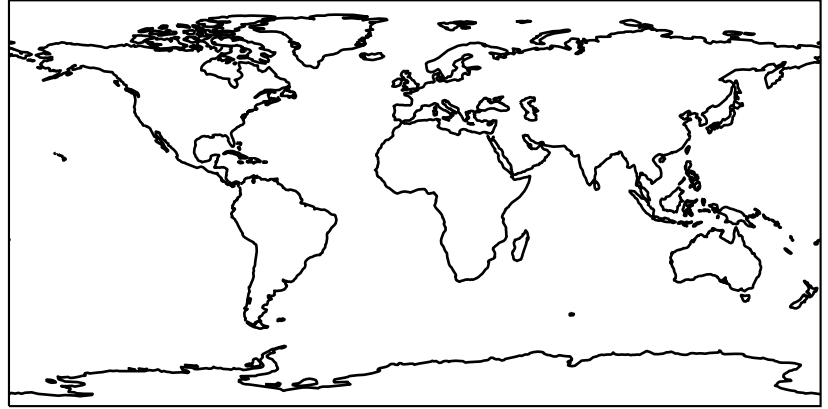
# EmisEOH\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



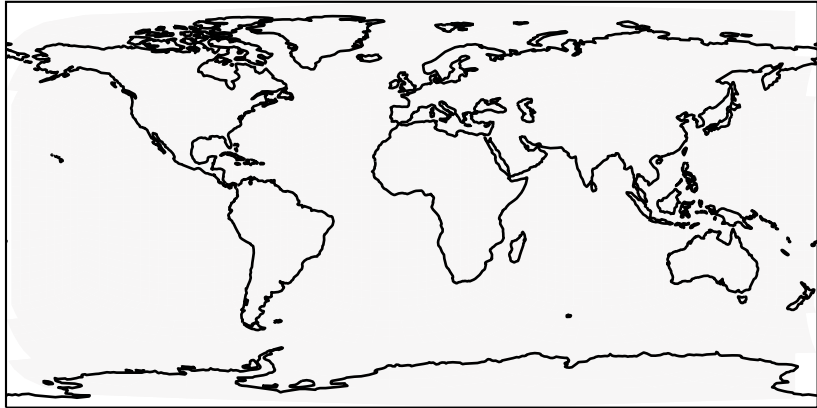
Zero throughout domain  
kg/m2/s

GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



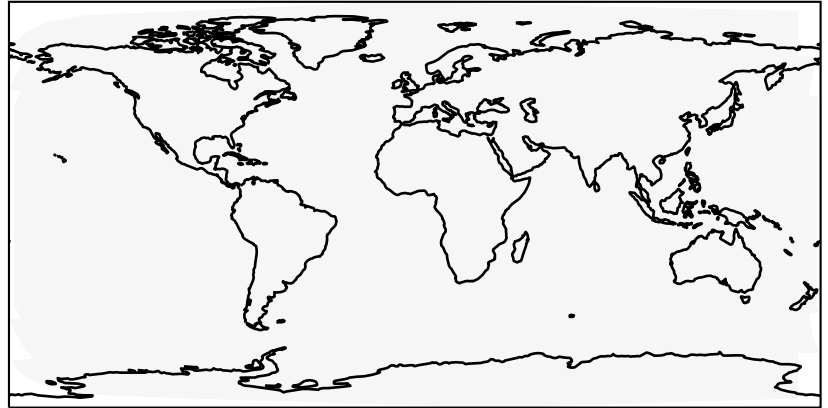
Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Restricted Range [5%,95%]



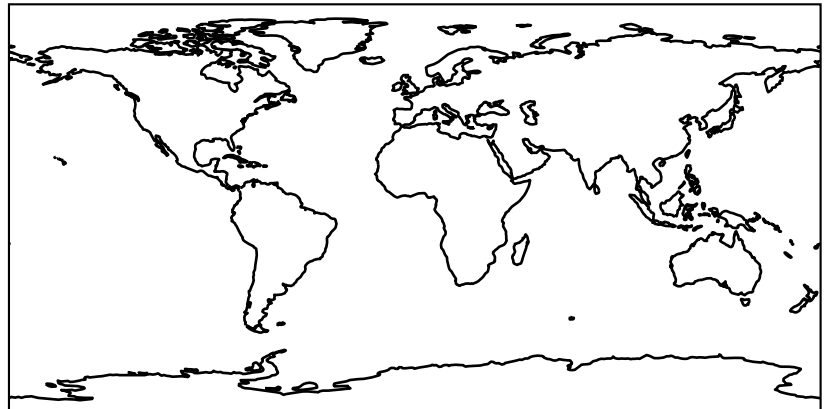
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

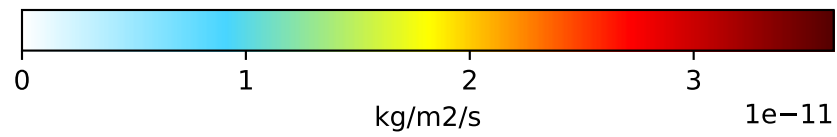
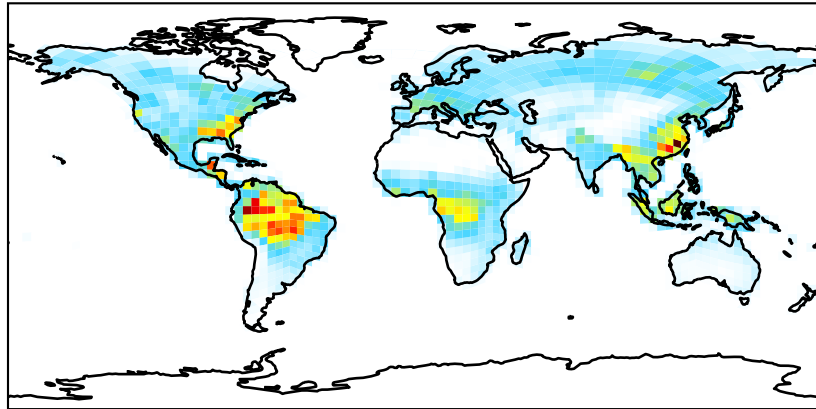
Ratio  
Dev/Ref, Fixed Range



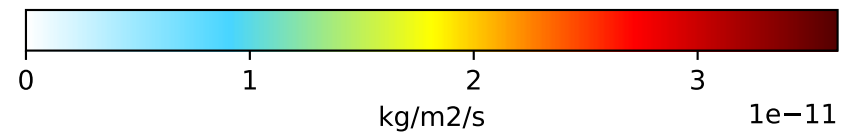
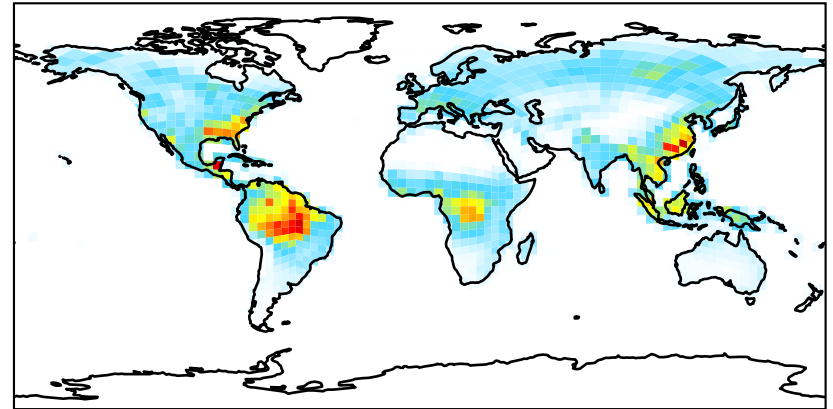
Undefined throughout domain  
unitless

# EmisEOH\_Total

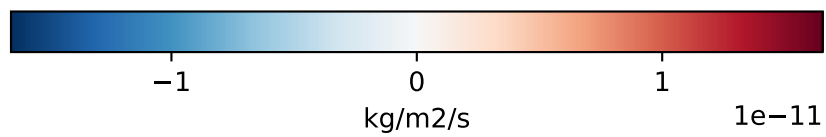
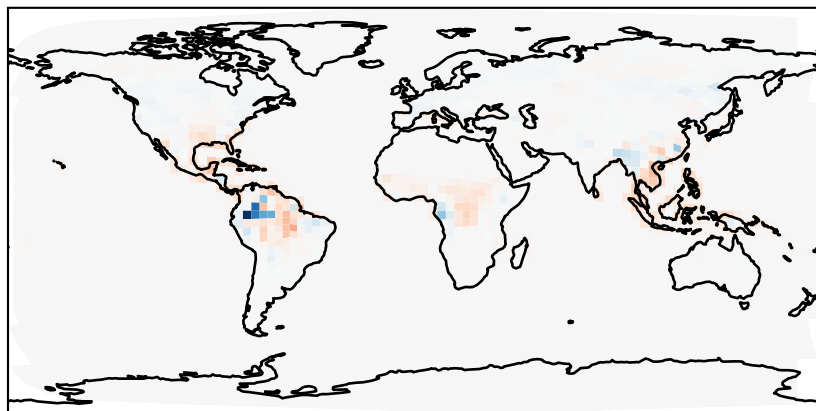
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



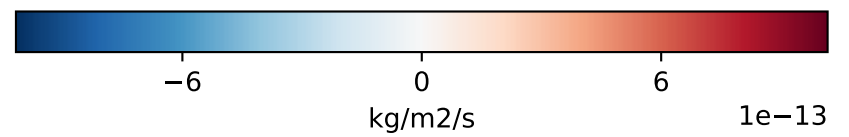
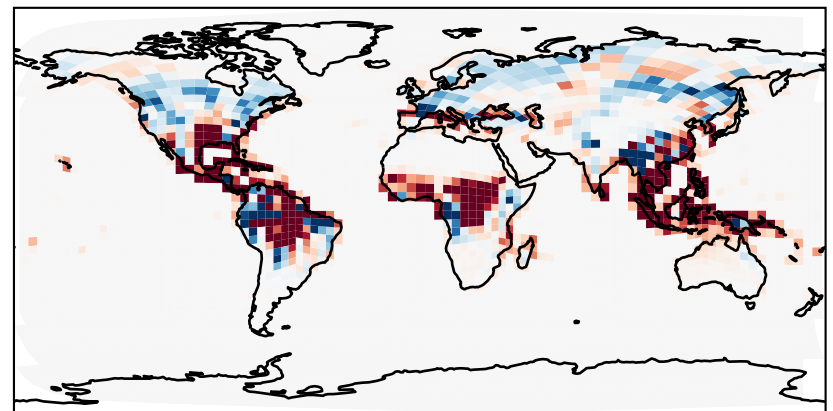
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



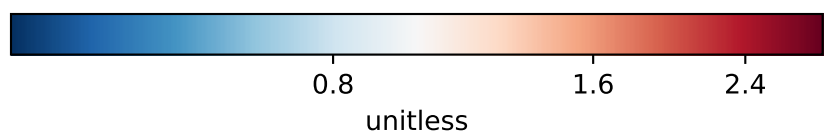
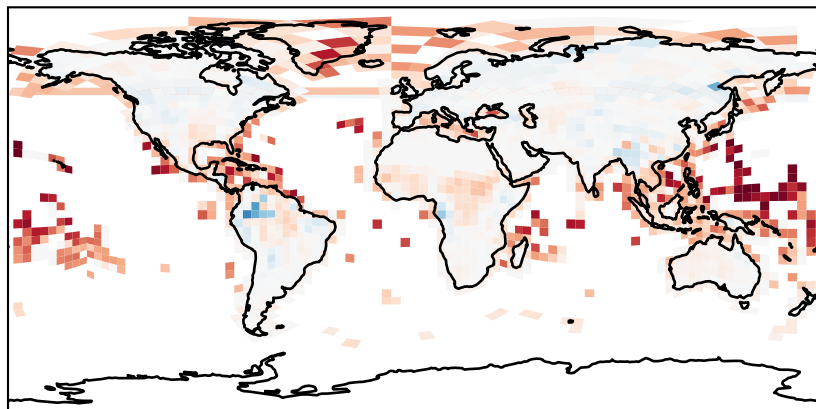
Difference  
Dev - Ref, Dynamic Range



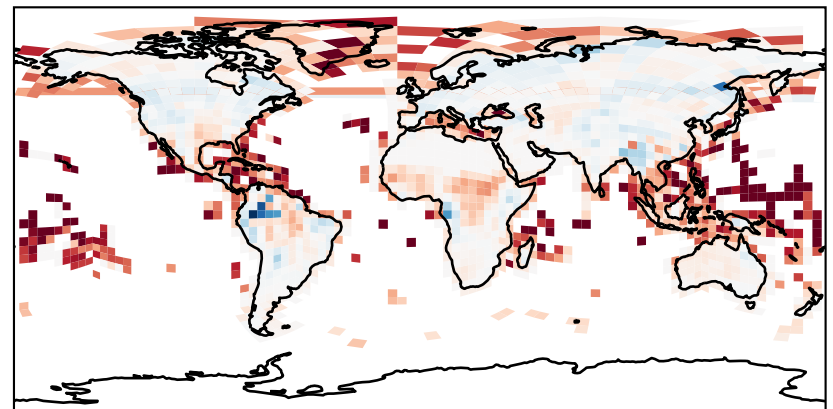
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



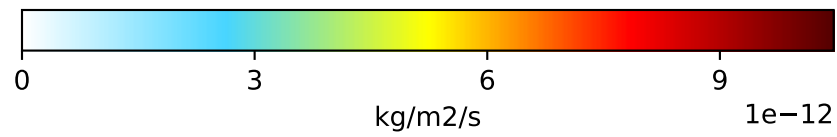
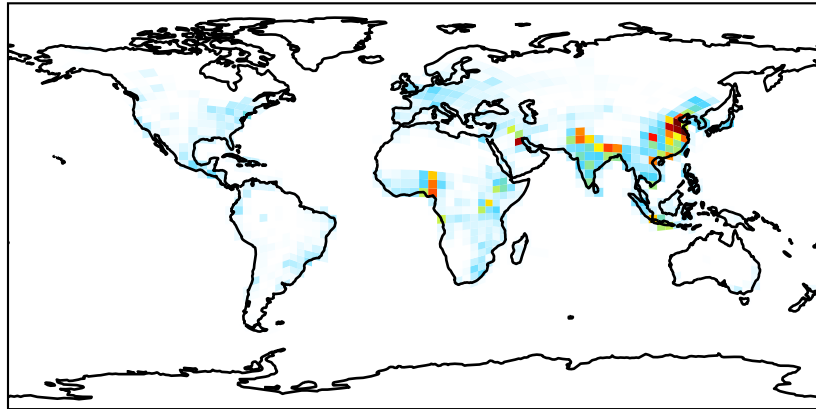
Ratio  
Dev/Ref, Fixed Range



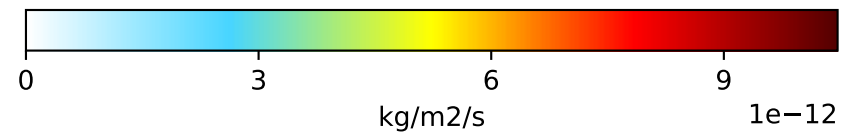
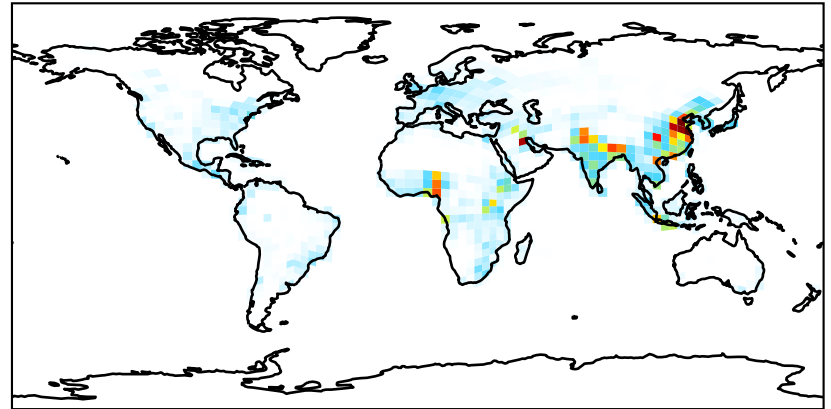


# EmisMOH\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



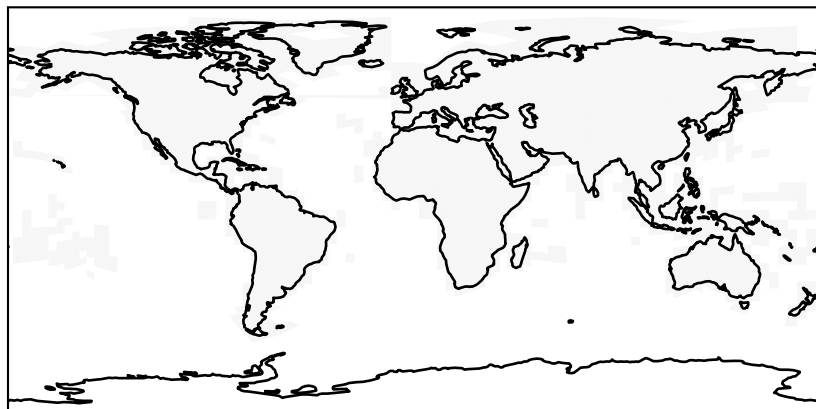
Difference  
Dev - Ref, Dynamic Range



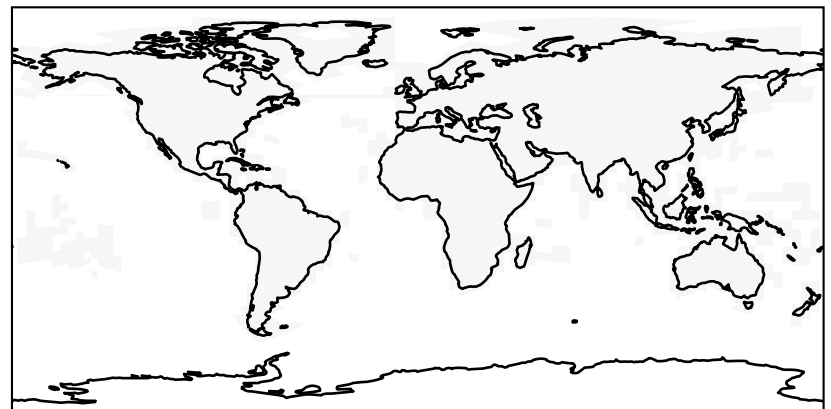
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



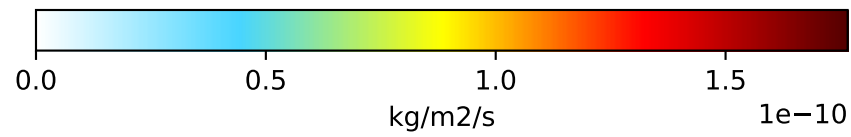
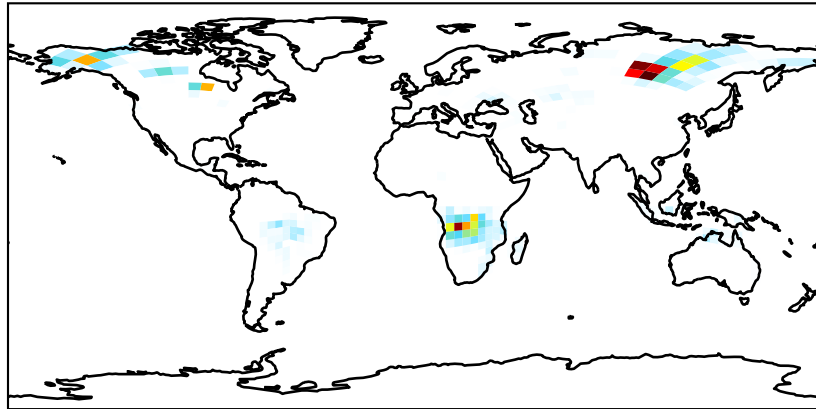
Ratio  
Dev/Ref, Fixed Range



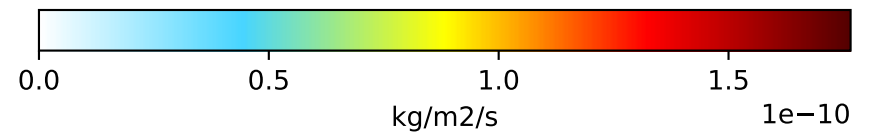
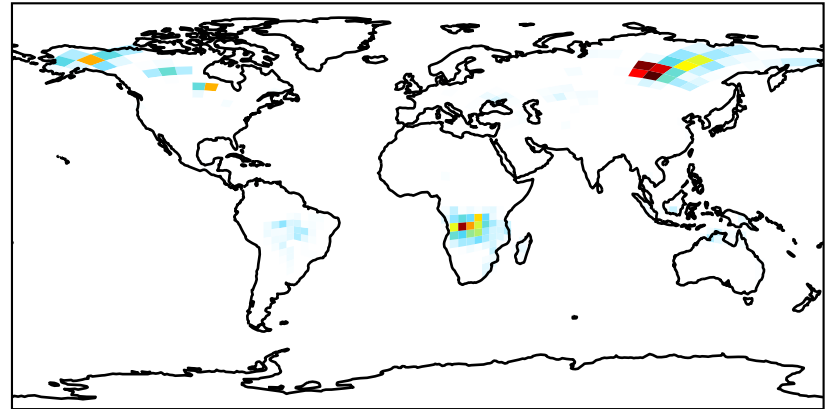


# EmisMOH\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



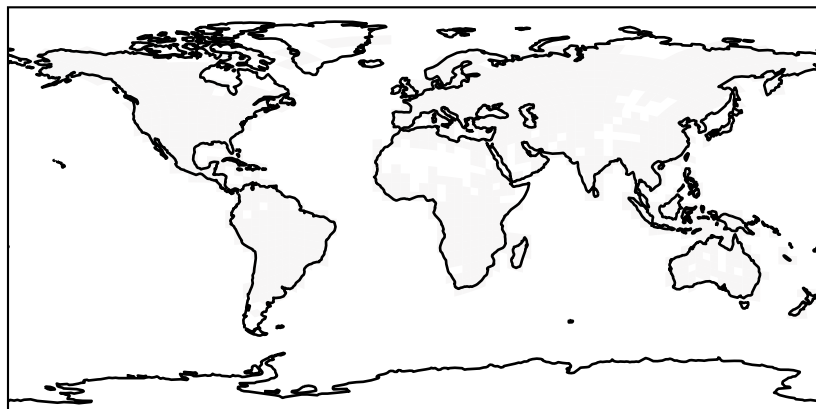
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

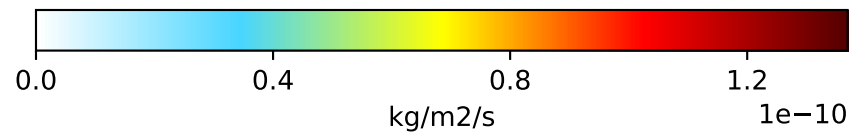
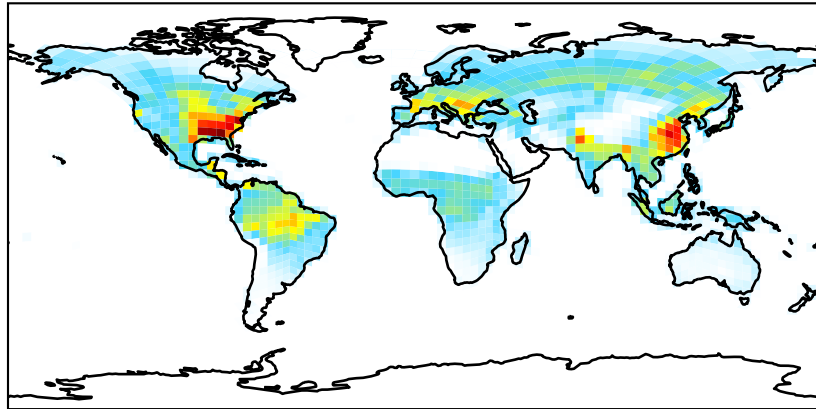


Ratio  
Dev/Ref, Fixed Range

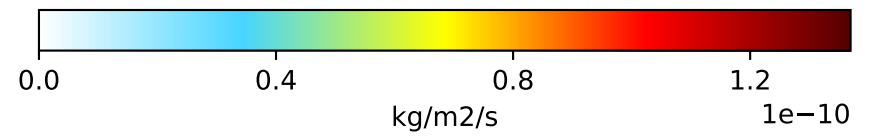
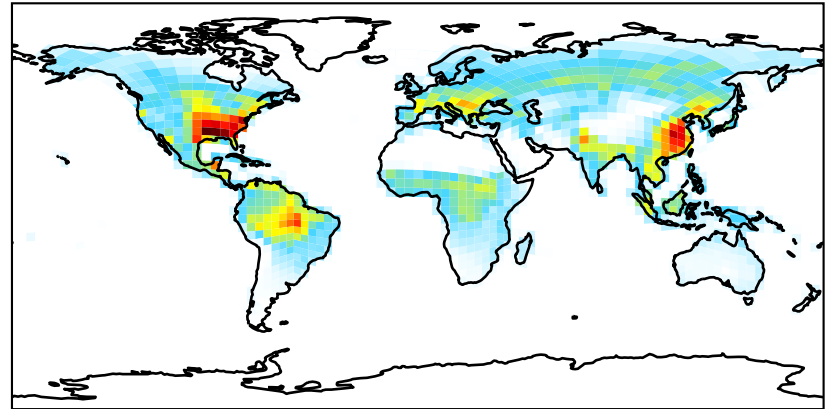


# EmisMOH\_Biogenic

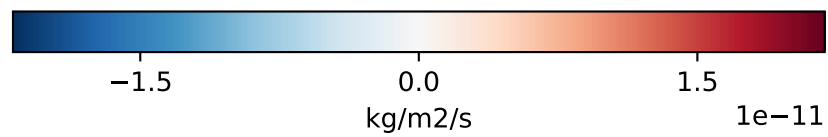
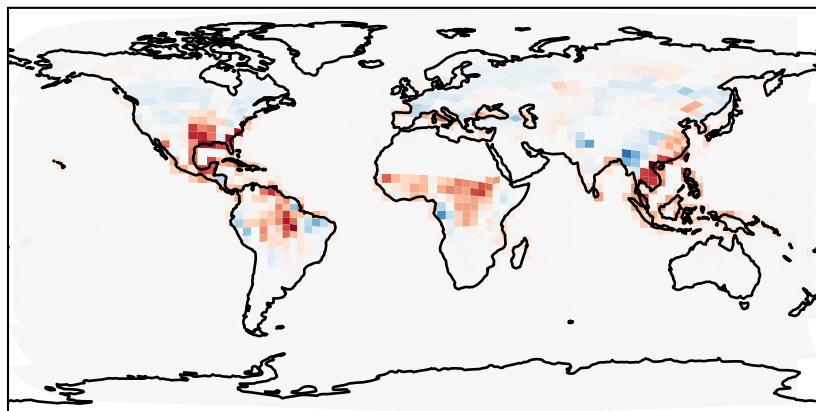
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



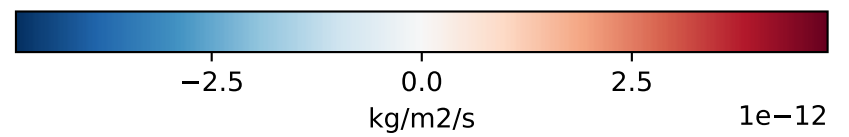
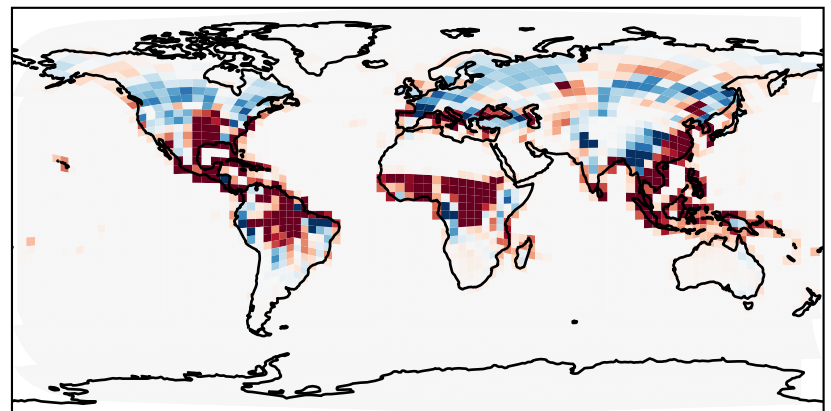
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



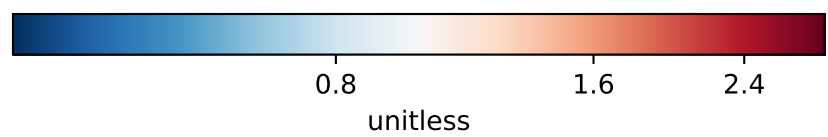
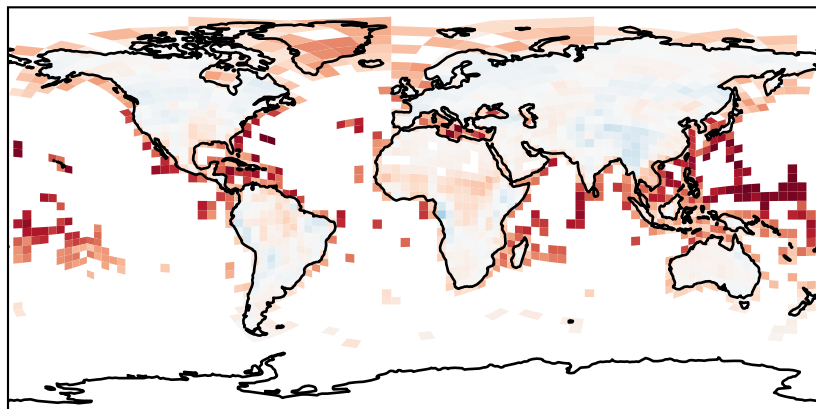
Difference  
Dev - Ref, Dynamic Range



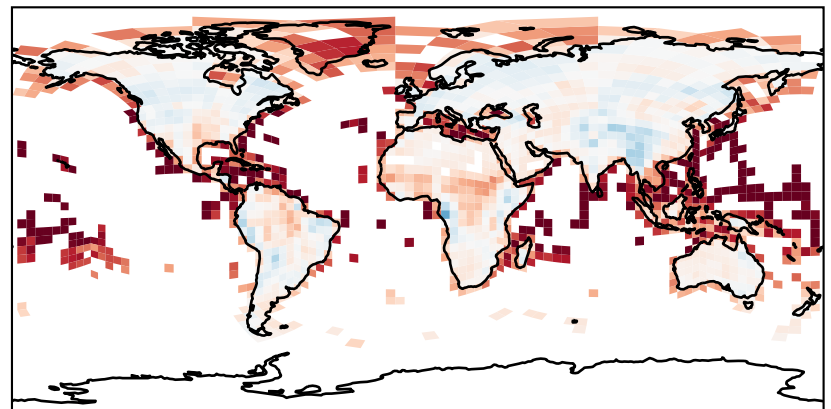
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

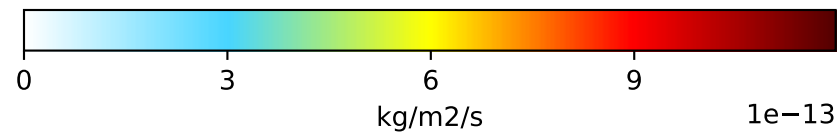
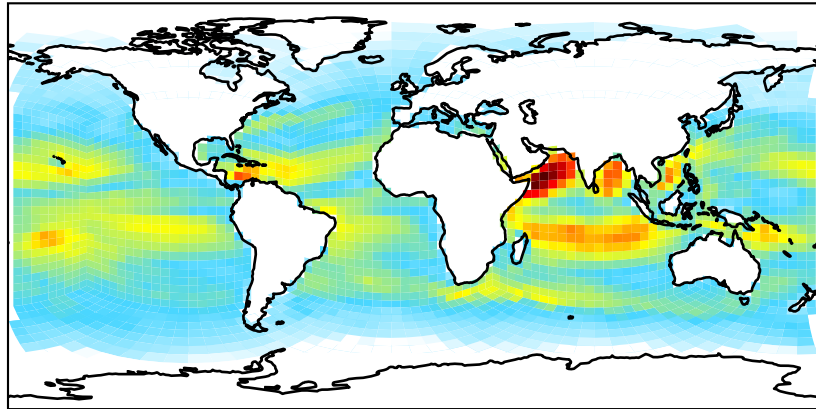


Ratio  
Dev/Ref, Fixed Range

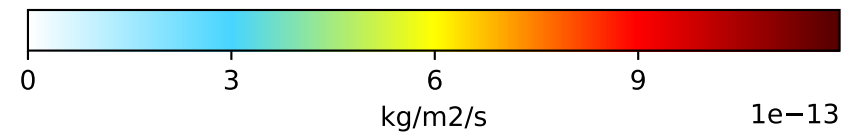
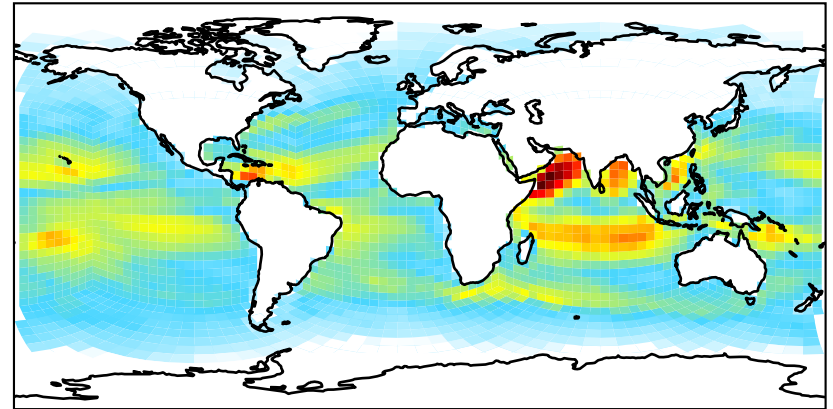


# EmisMOH\_Ocean

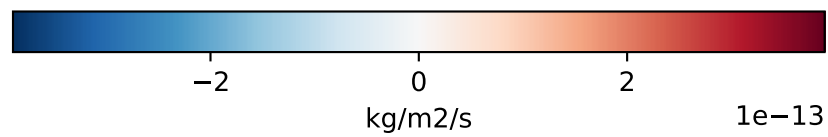
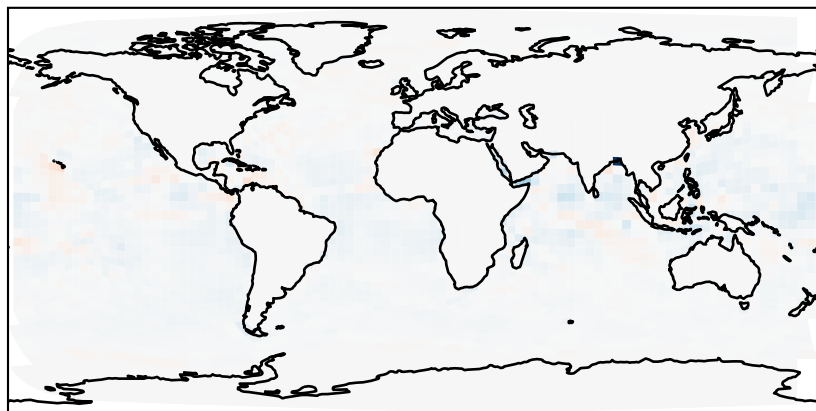
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



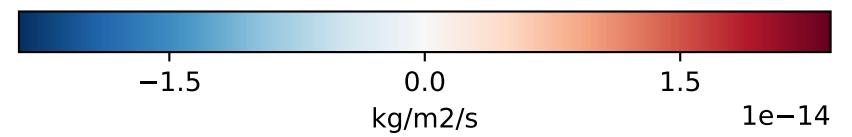
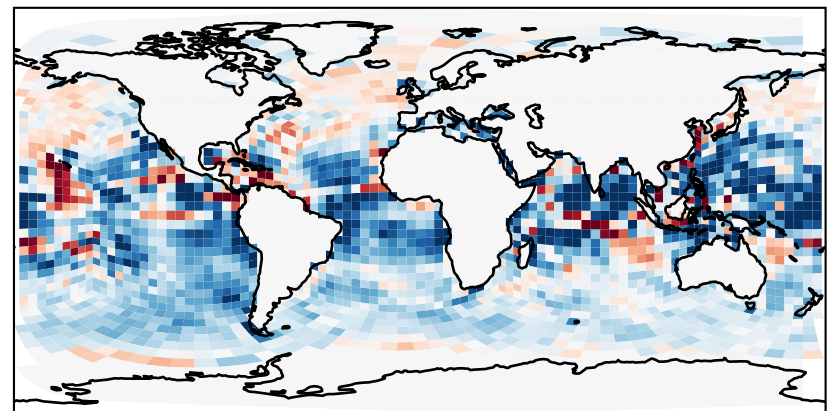
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



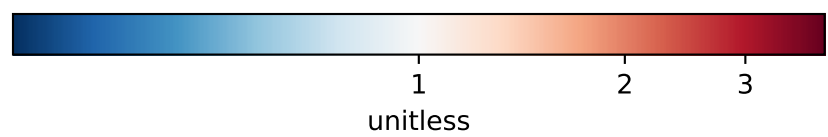
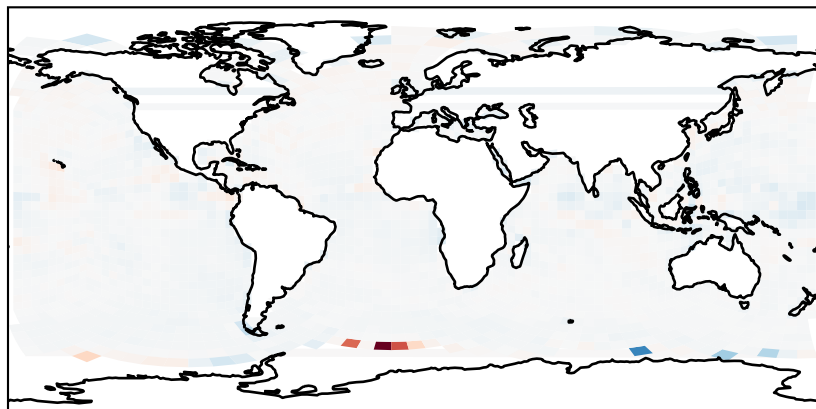
Difference  
Dev - Ref, Dynamic Range



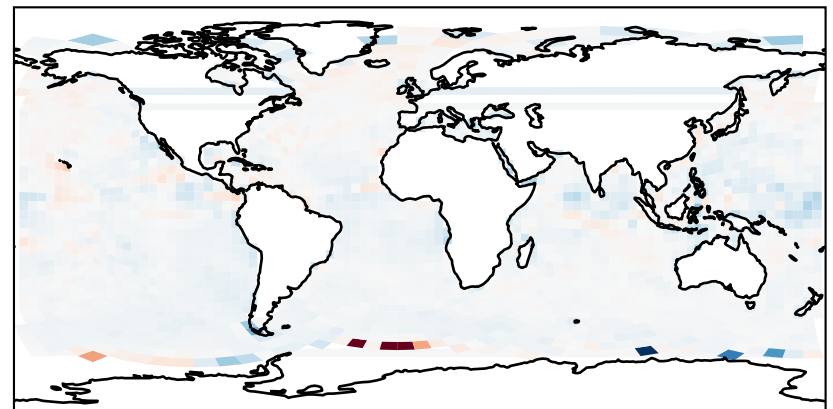
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

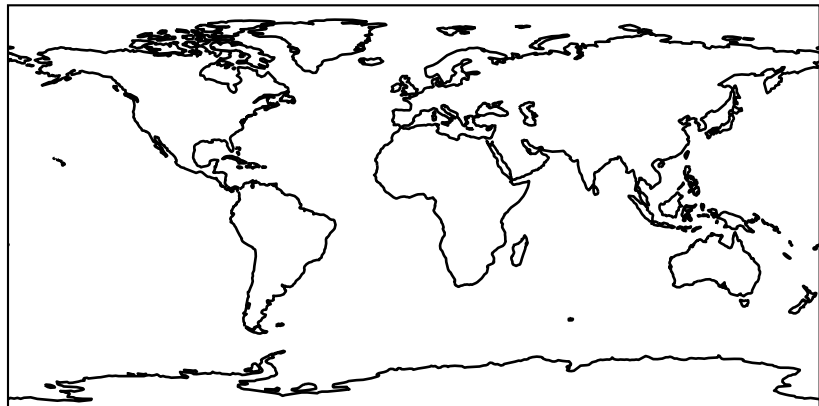


Ratio  
Dev/Ref, Fixed Range



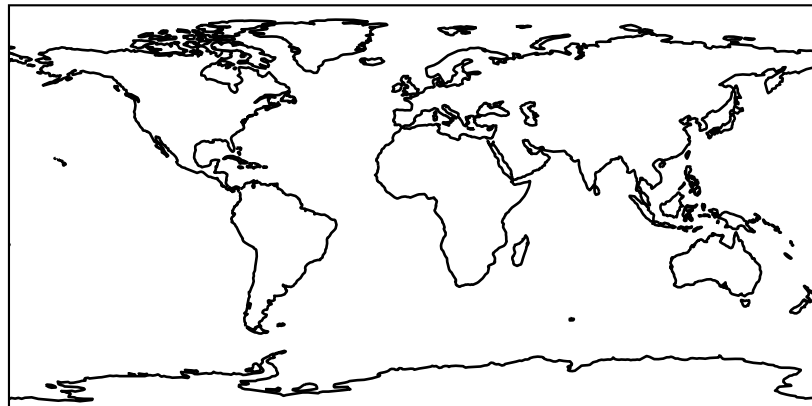
# EmisMOH\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



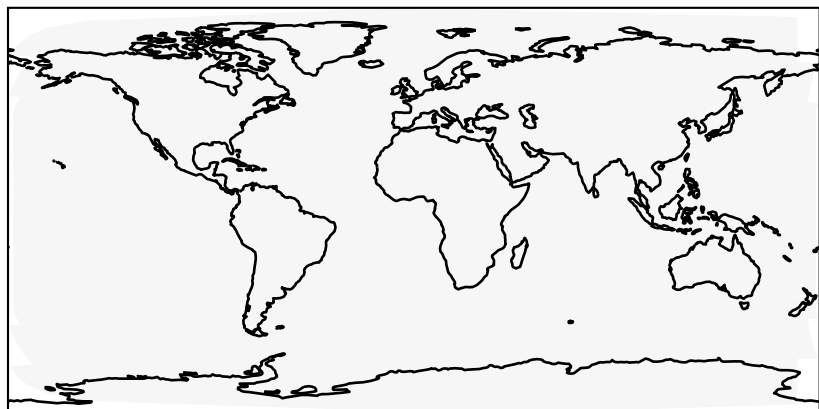
Zero throughout domain  
kg/m2/s

GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



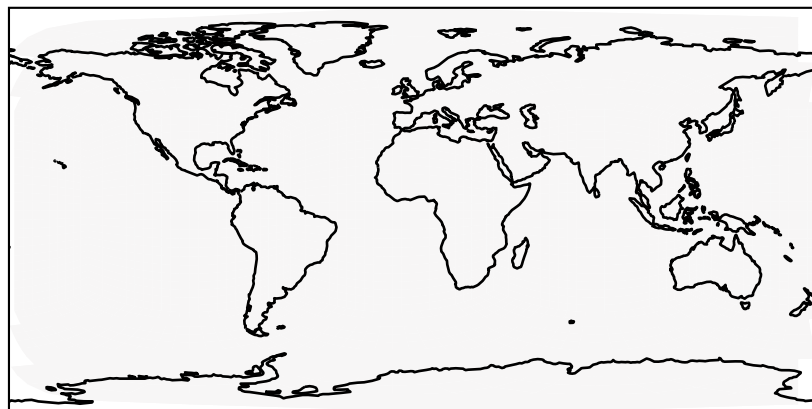
Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Restricted Range [5%,95%]



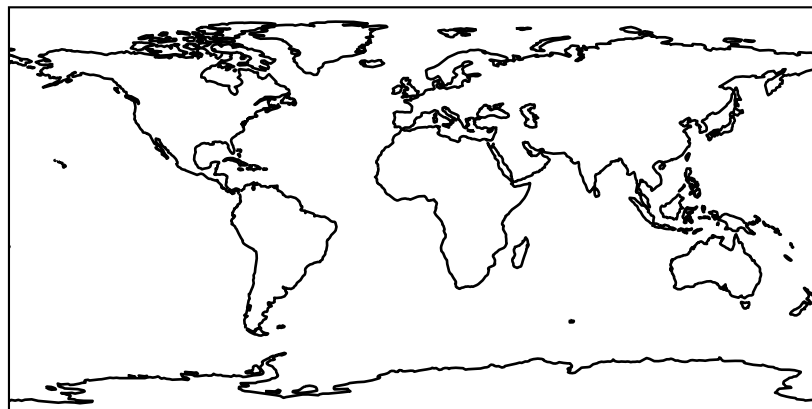
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range

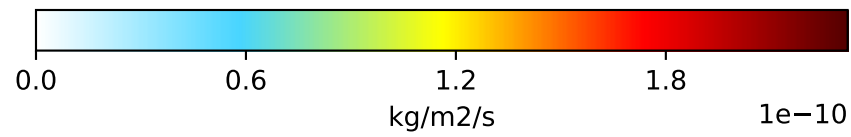
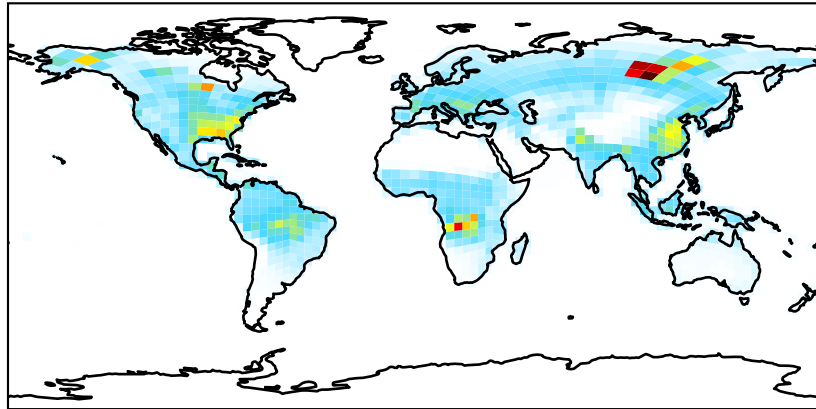


Undefined throughout domain  
unitless

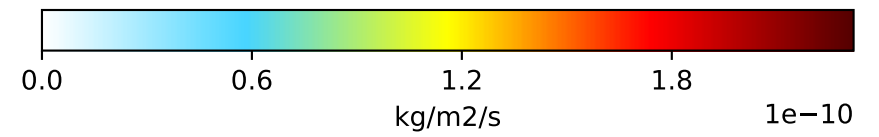
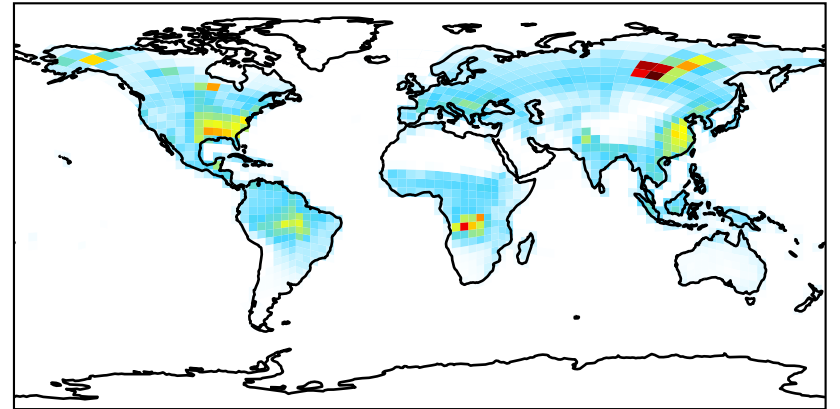


# EmisMOH\_Total

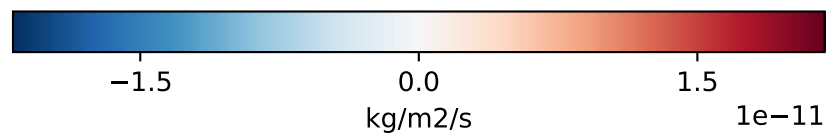
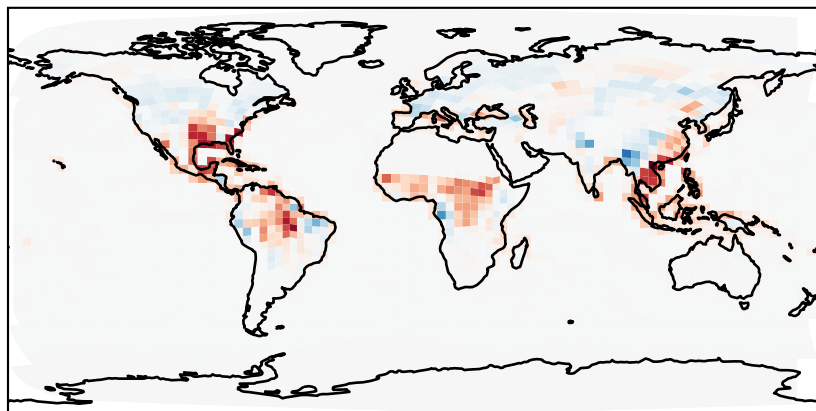
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



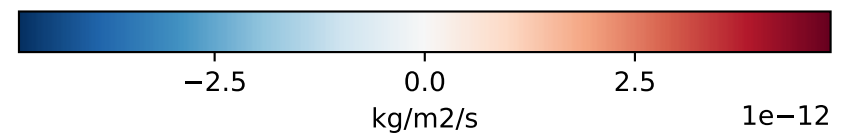
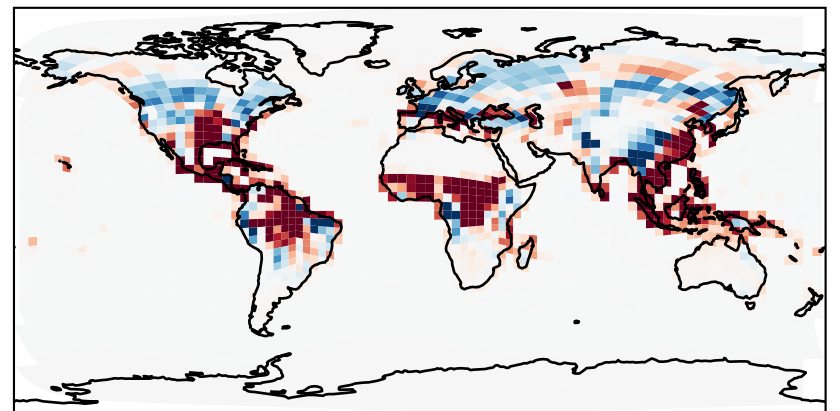
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



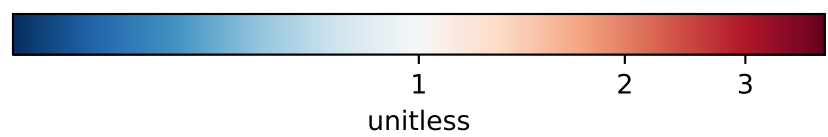
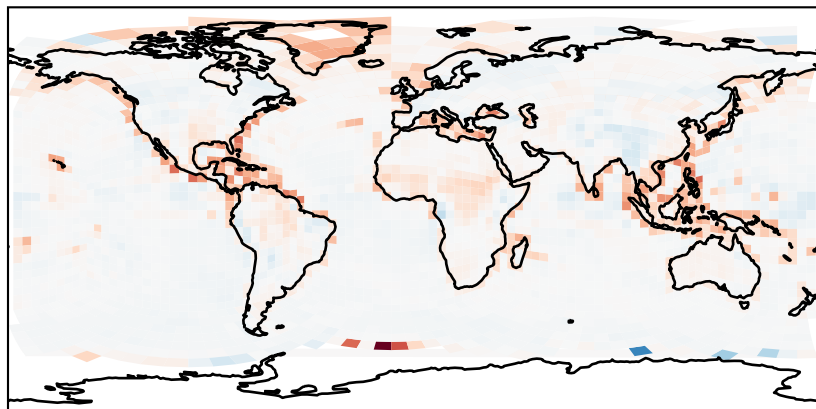
Difference  
Dev - Ref, Dynamic Range



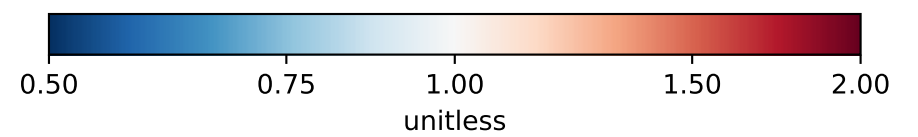
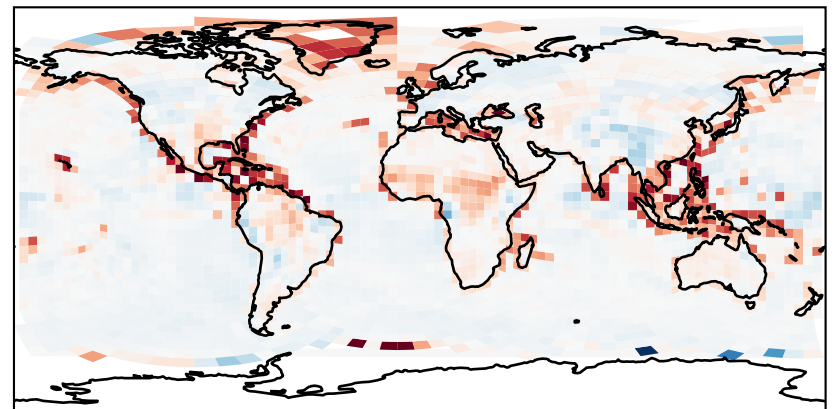
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



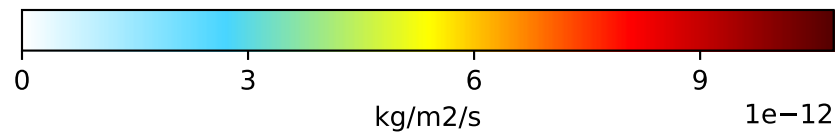
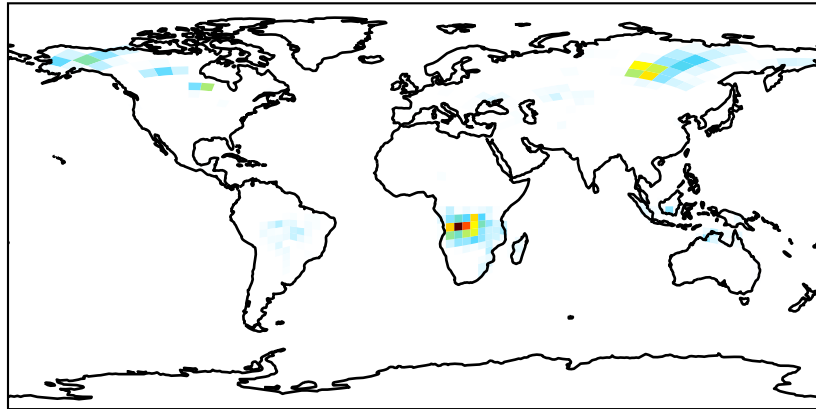
Ratio  
Dev/Ref, Fixed Range



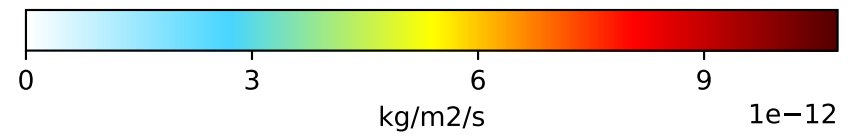
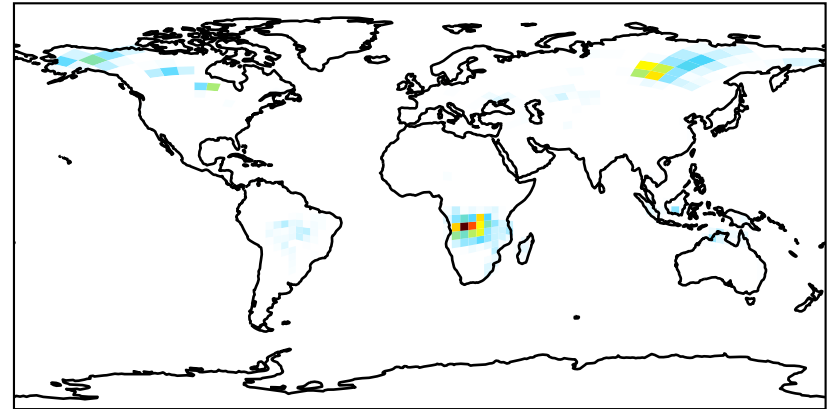


# EmisISOP\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



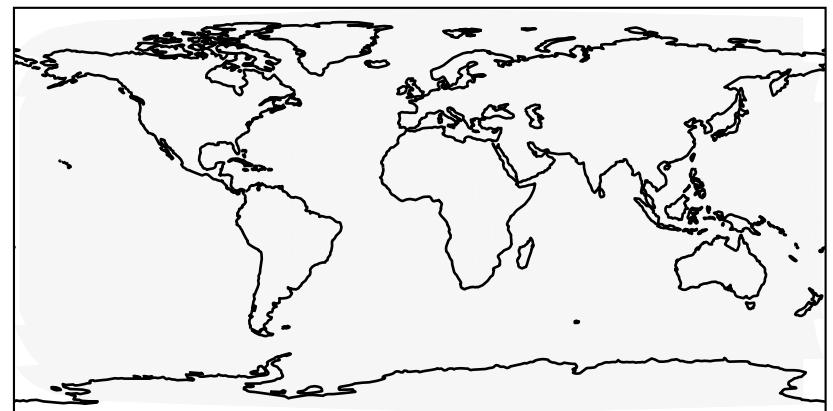
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



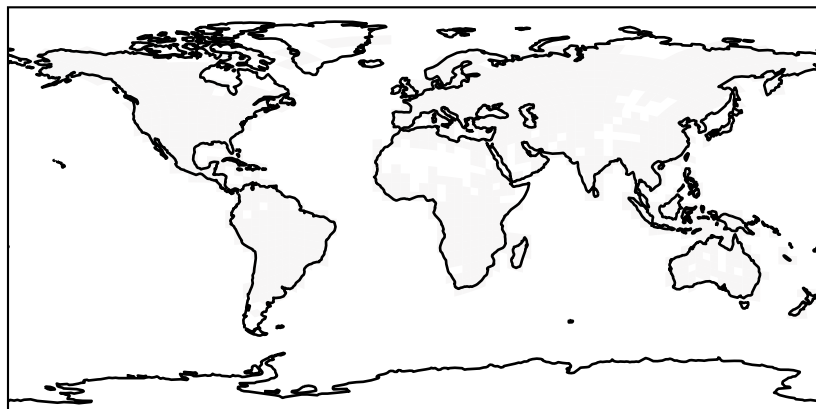
Difference  
Dev - Ref, Dynamic Range



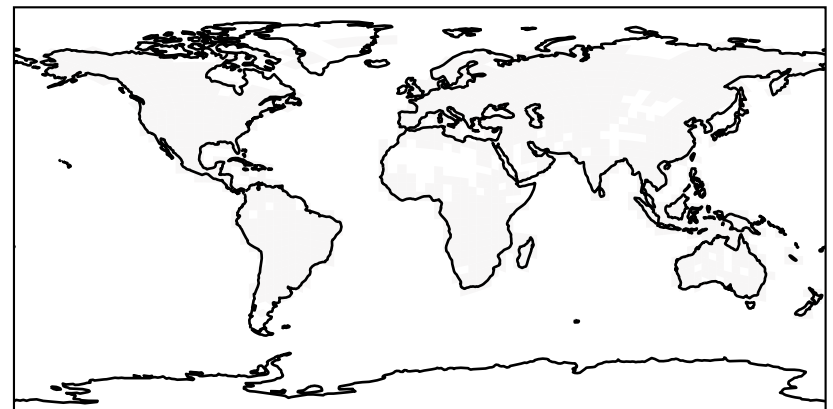
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

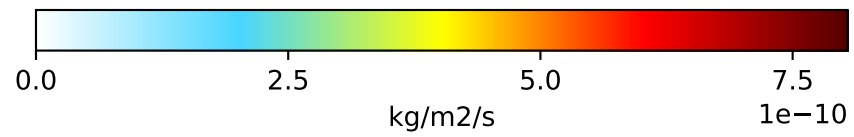
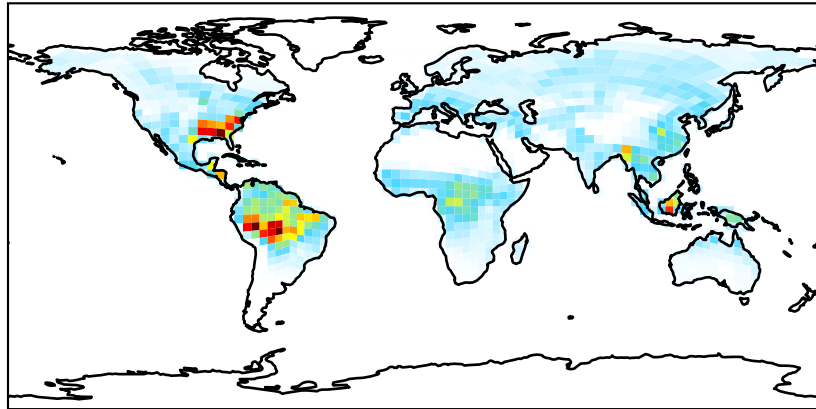


Ratio  
Dev/Ref, Fixed Range

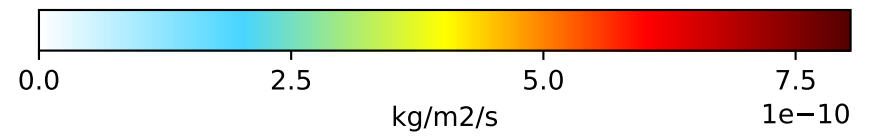
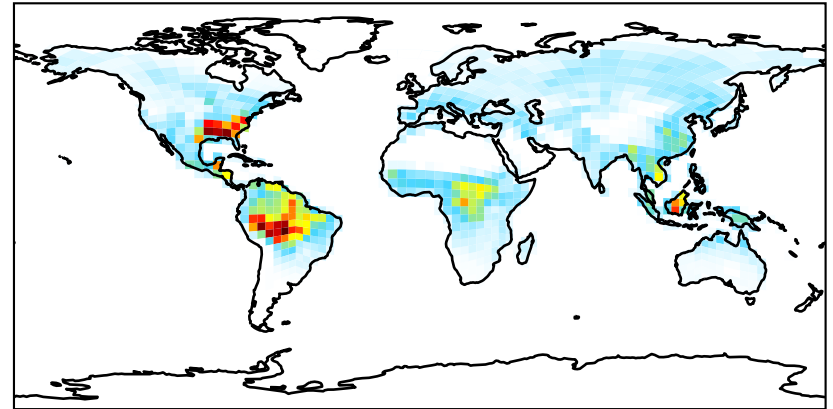


# EmisSOP\_Biogenic

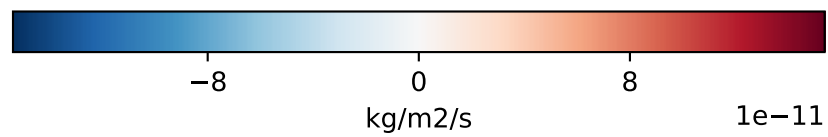
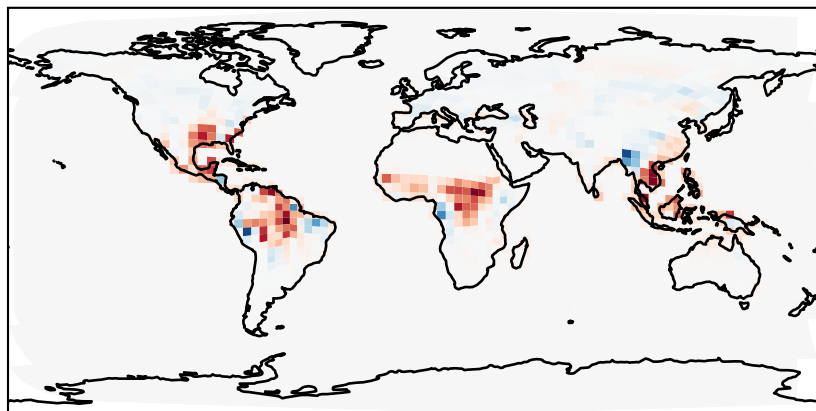
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



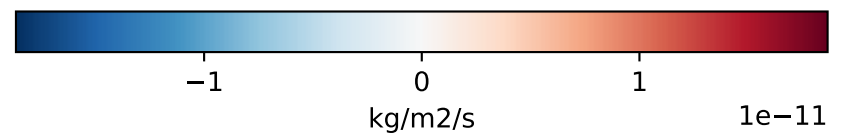
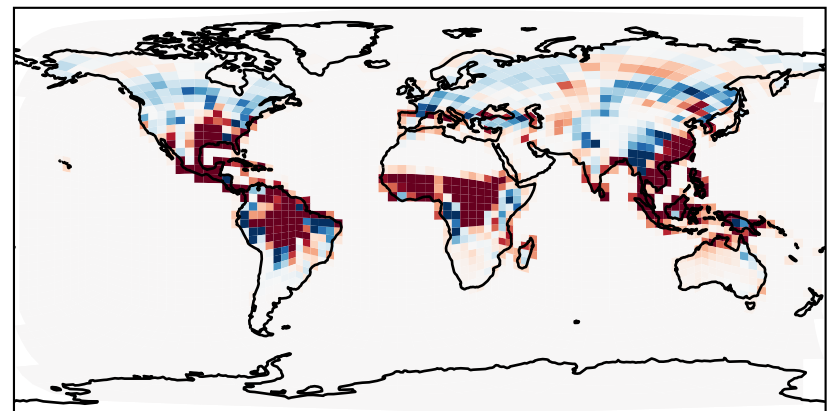
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



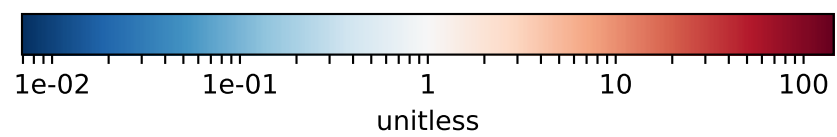
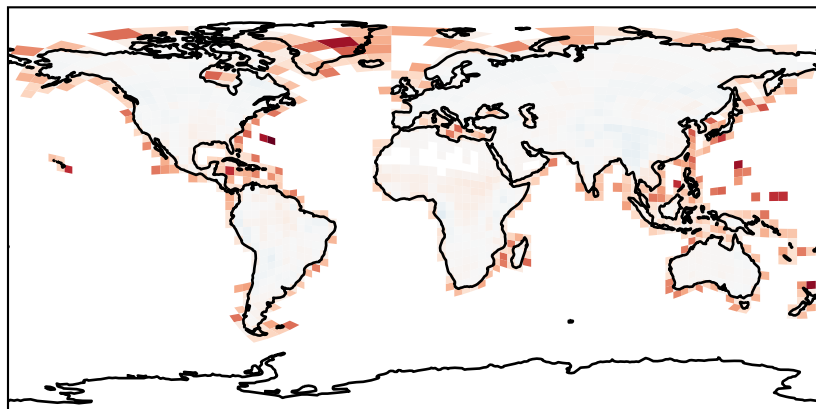
Difference  
Dev - Ref, Dynamic Range



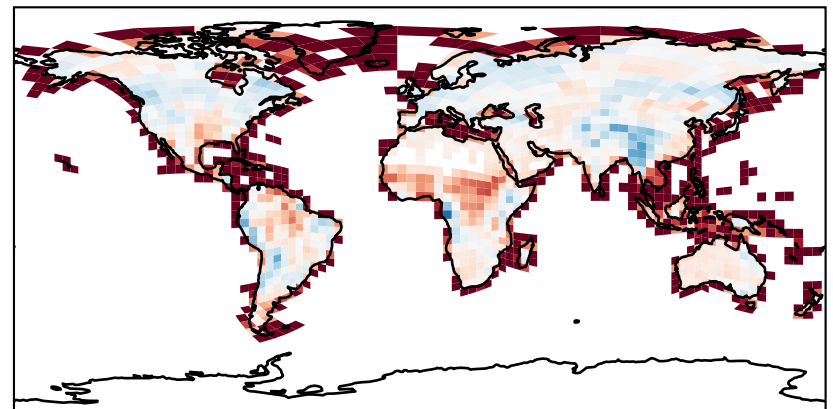
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

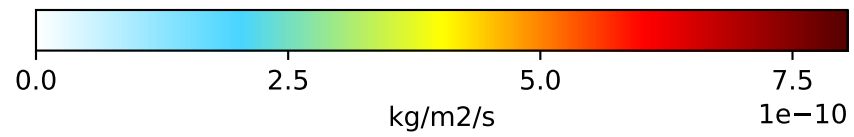
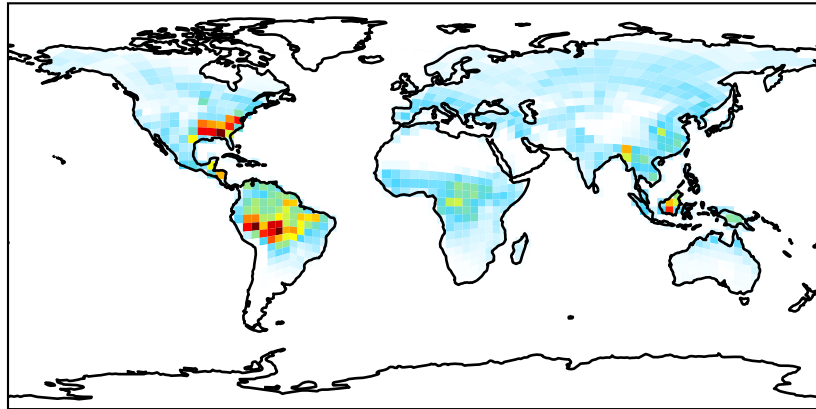


Ratio  
Dev/Ref, Fixed Range

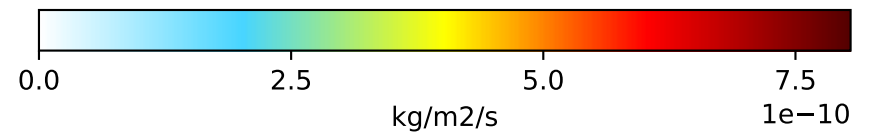
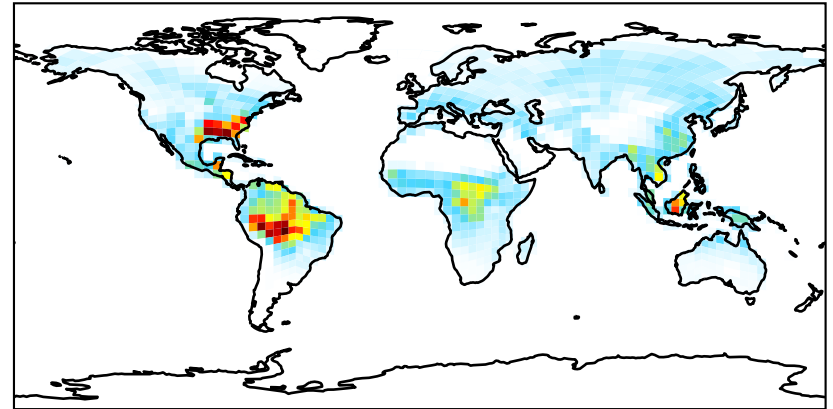


# EmisSOP\_Total

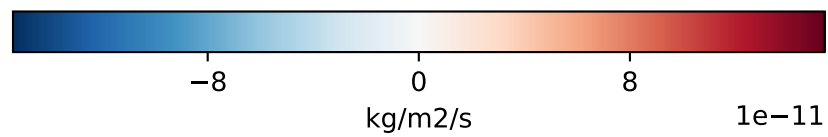
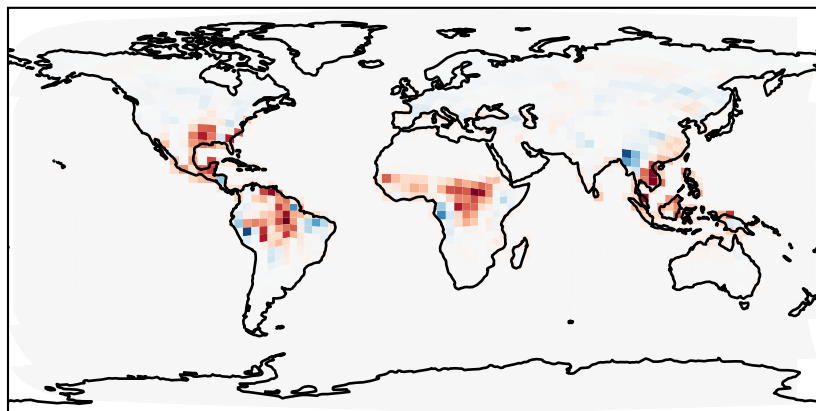
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



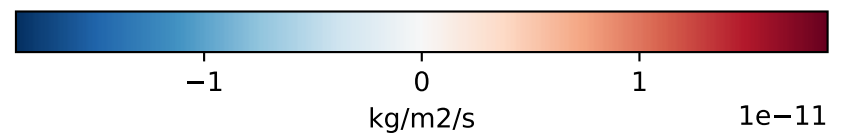
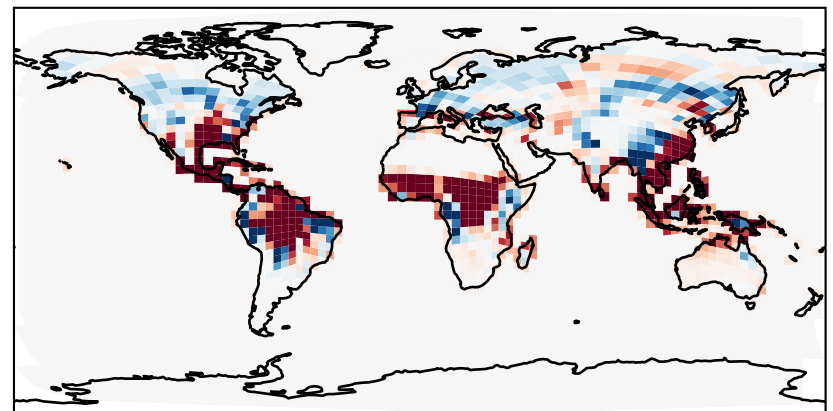
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



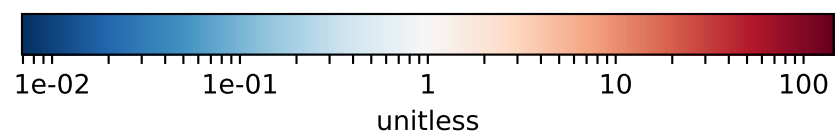
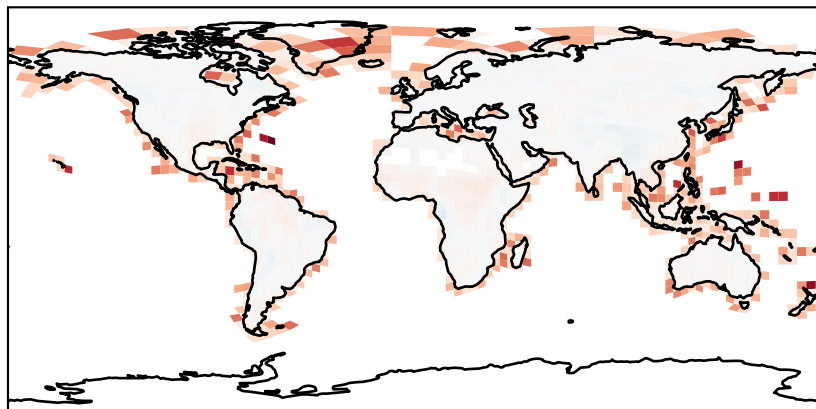
Difference  
Dev - Ref, Dynamic Range



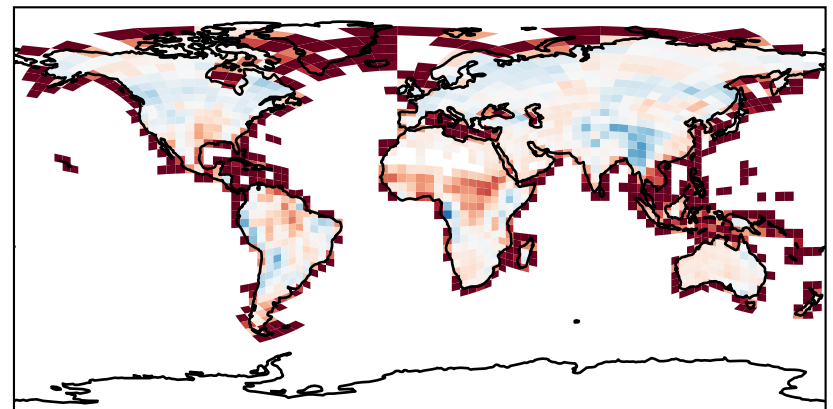
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

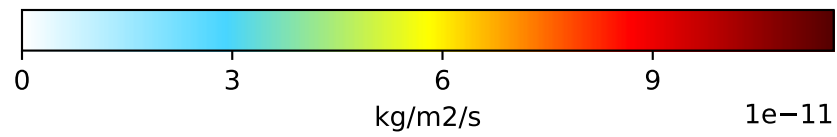
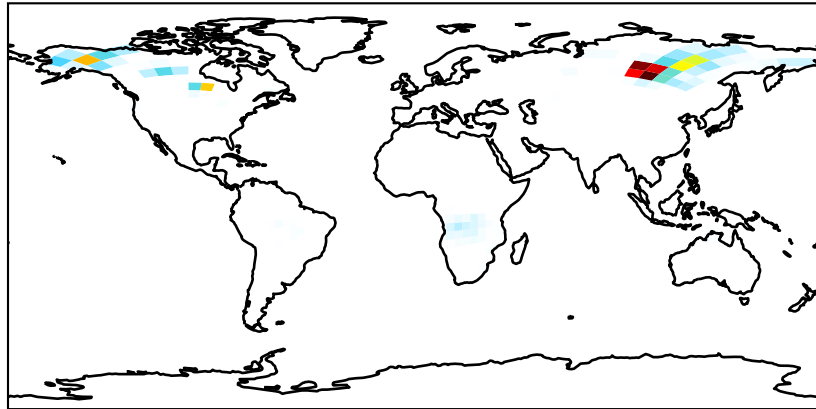


Ratio  
Dev/Ref, Fixed Range

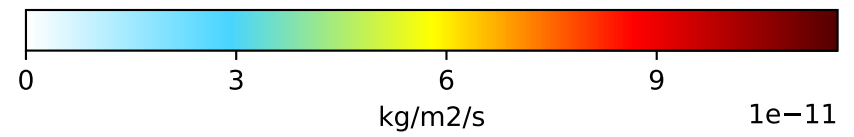
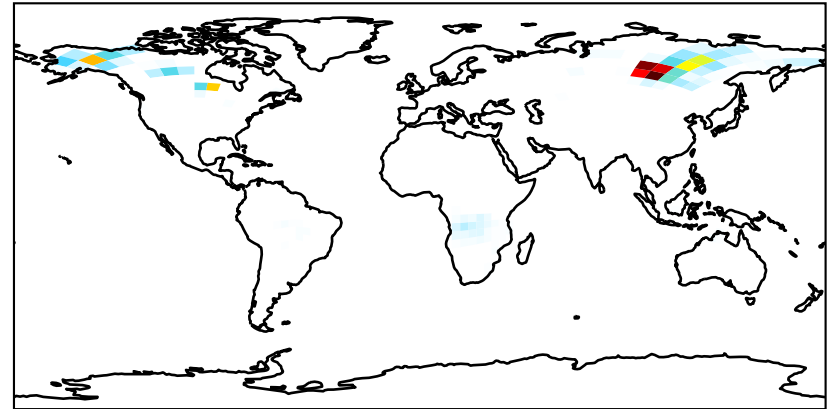


# EmisMTPA\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



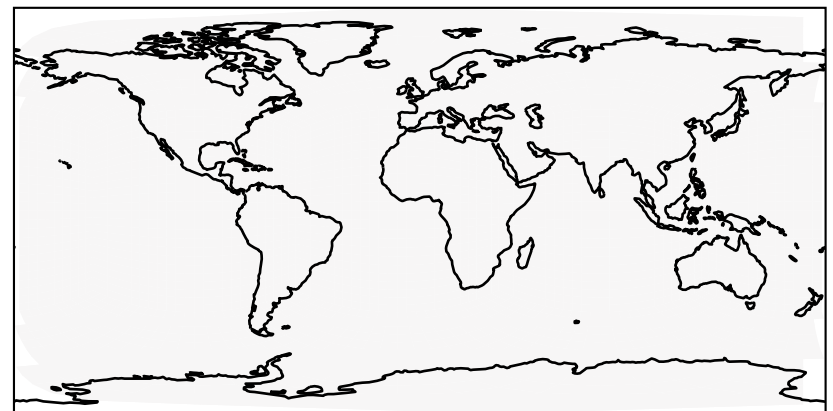
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



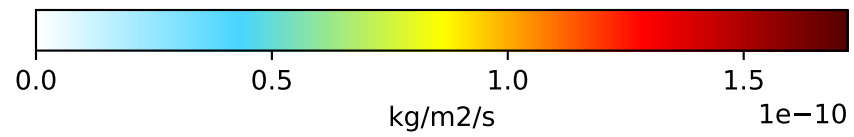
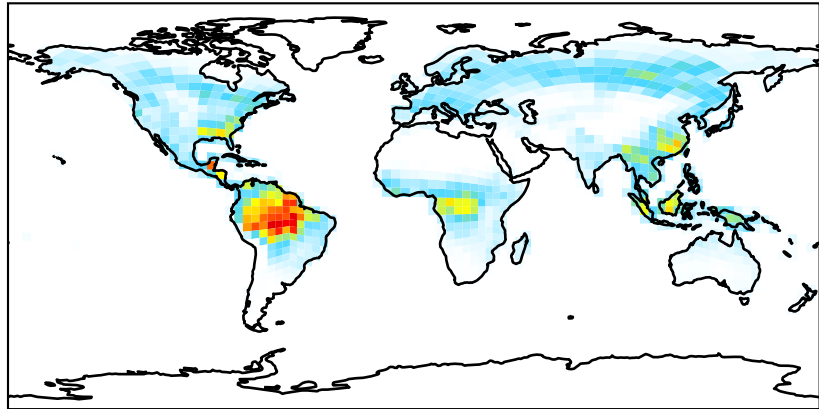
Ratio  
Dev/Ref, Fixed Range



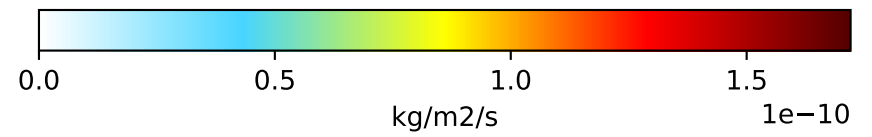
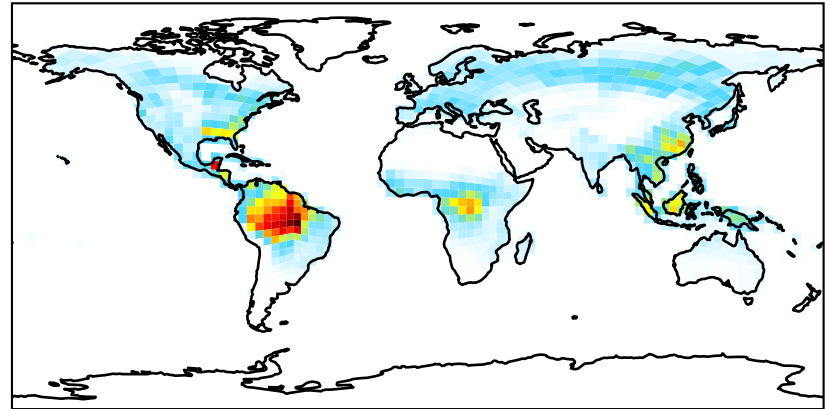


# EmisMTPA\_Biogenic

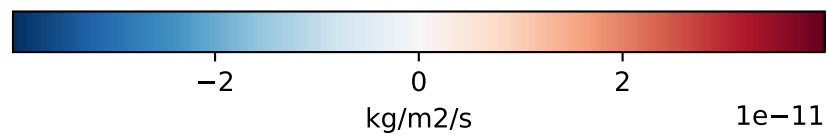
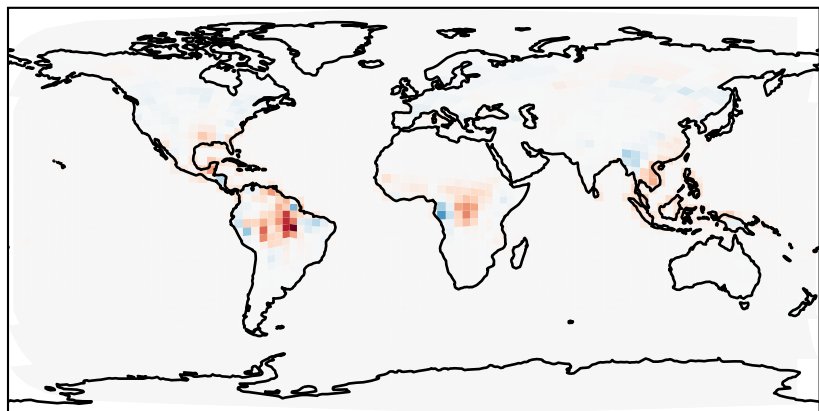
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



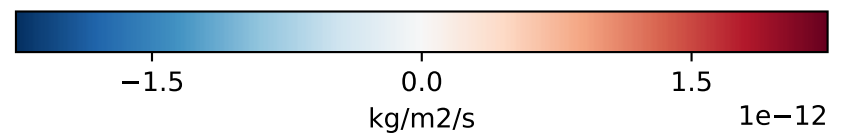
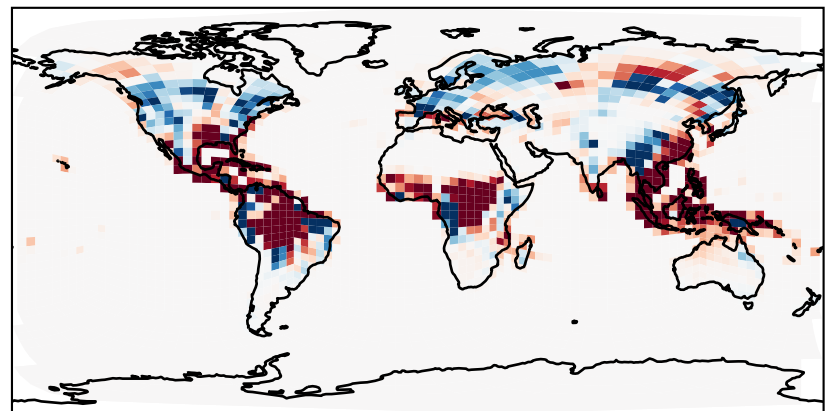
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



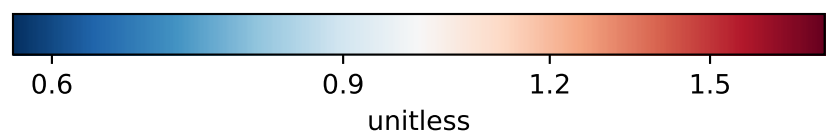
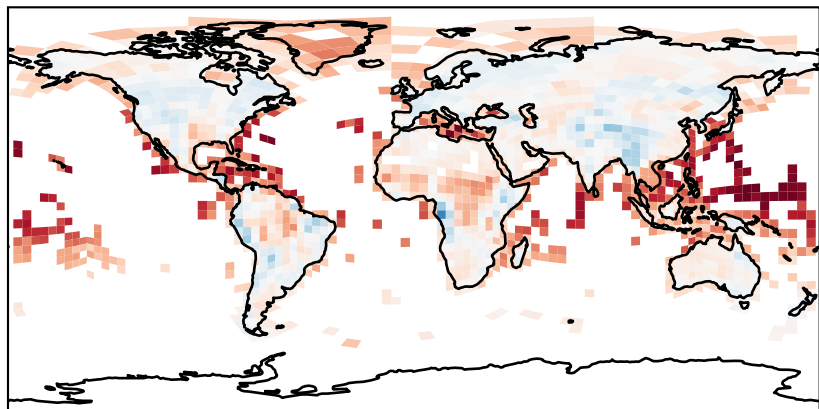
Difference  
Dev - Ref, Dynamic Range



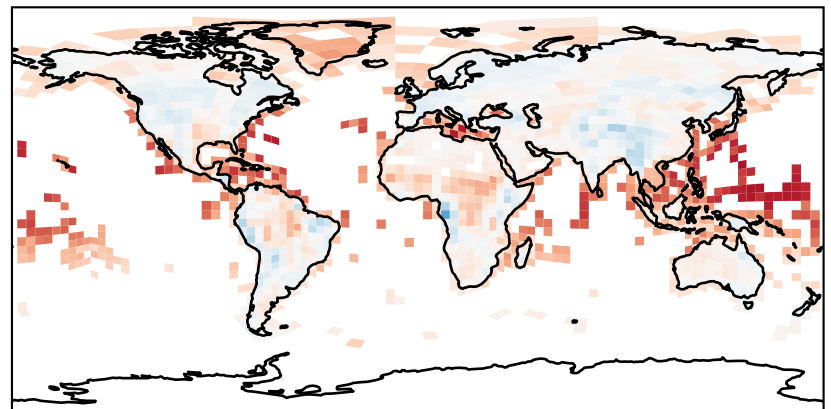
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



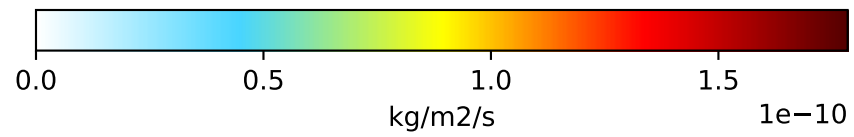
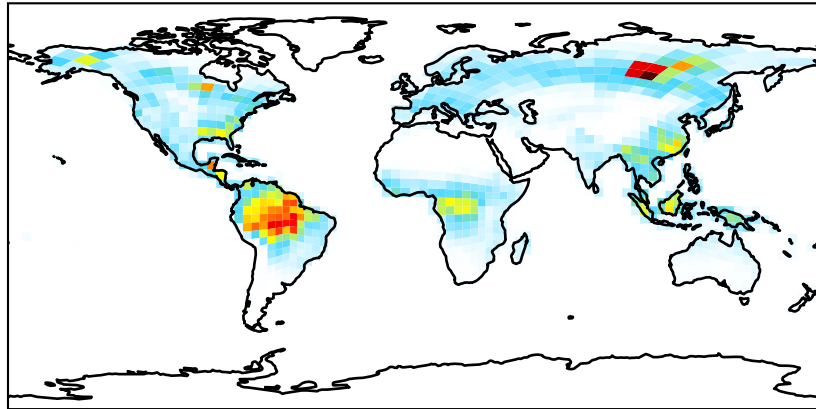
Ratio  
Dev/Ref, Fixed Range



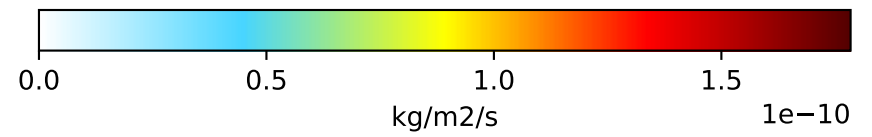
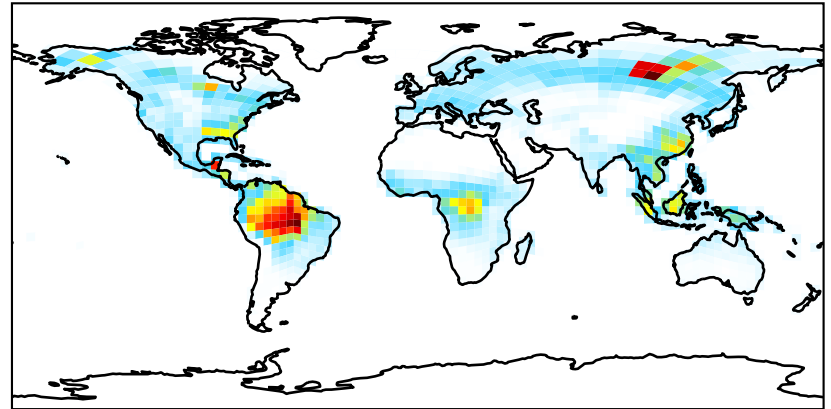


# EmisMTPA\_Total

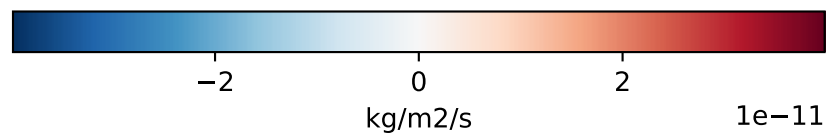
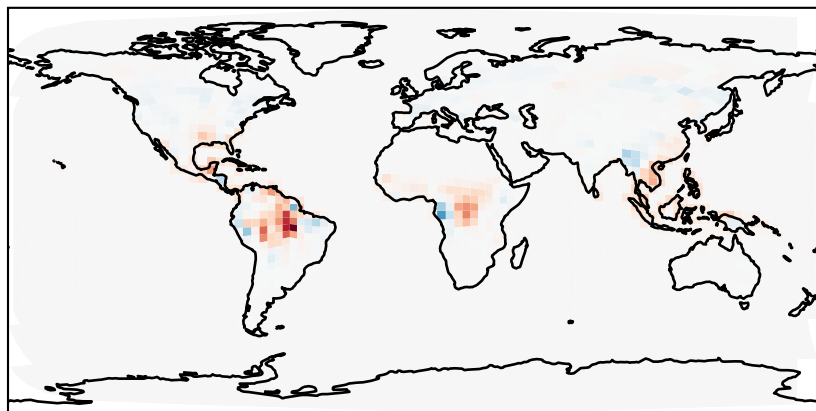
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



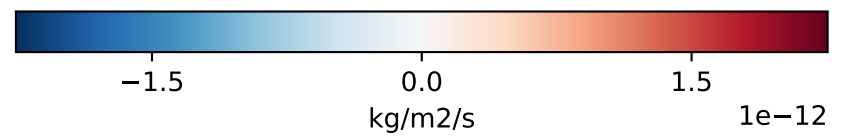
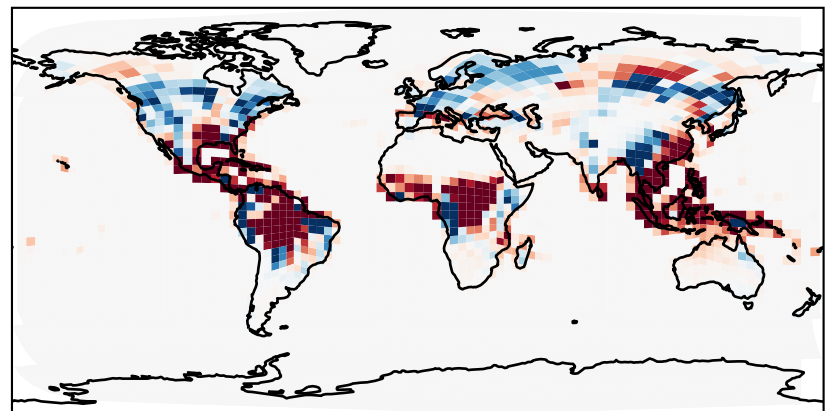
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



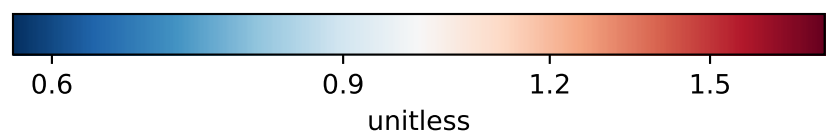
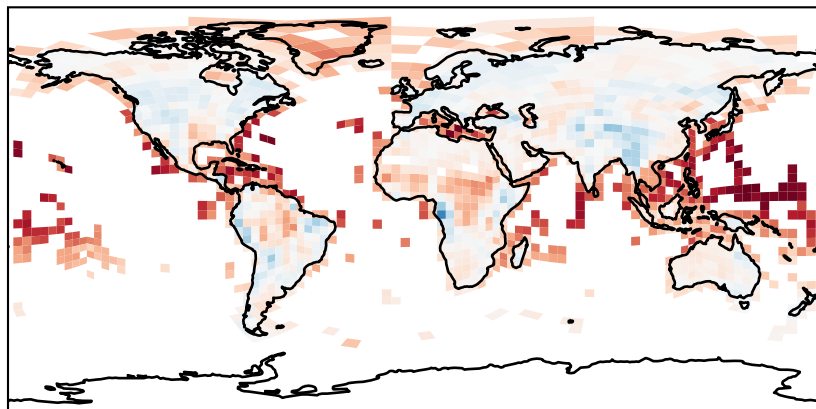
Difference  
Dev - Ref, Dynamic Range



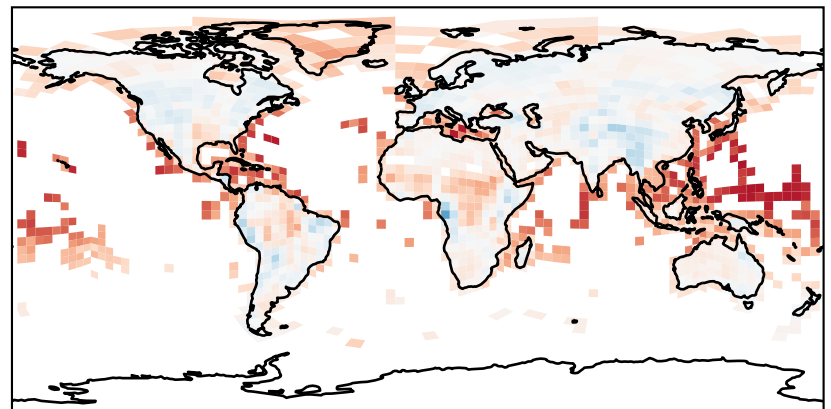
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

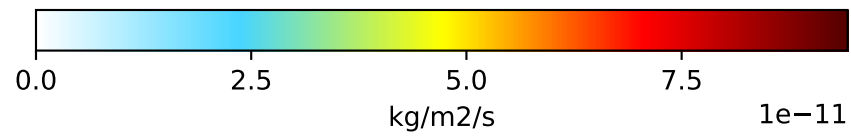
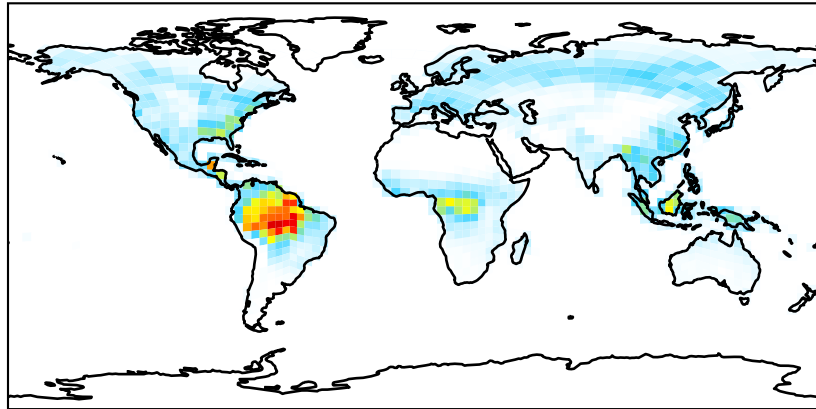


Ratio  
Dev/Ref, Fixed Range

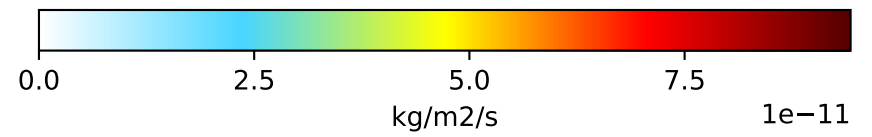
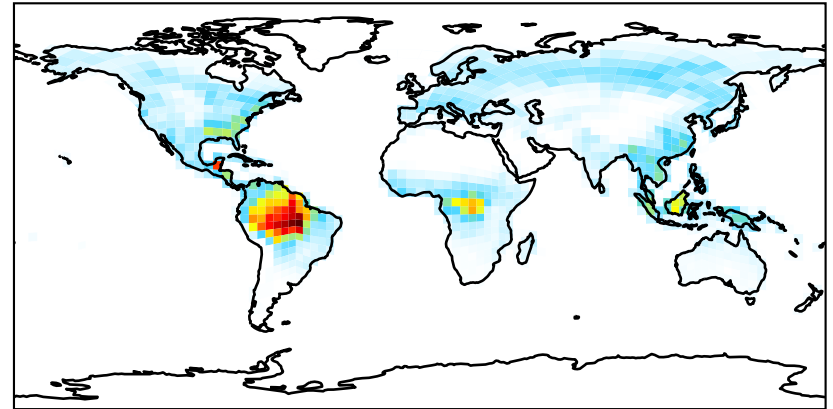


# EmisMTPO\_Biogenic

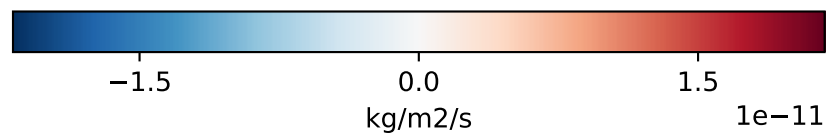
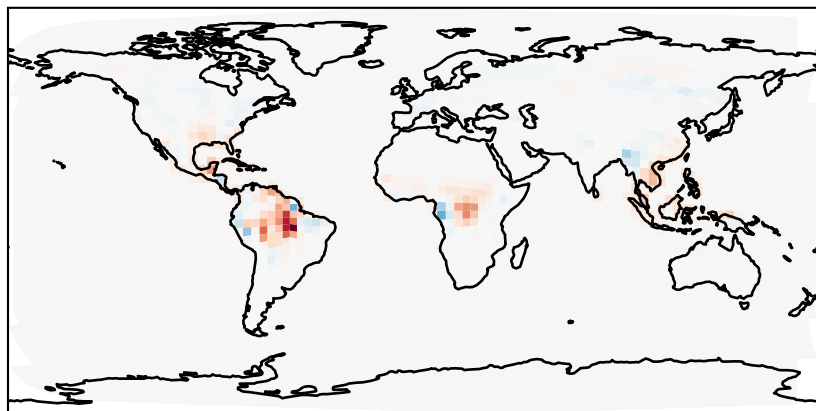
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



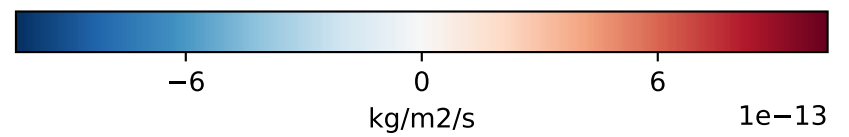
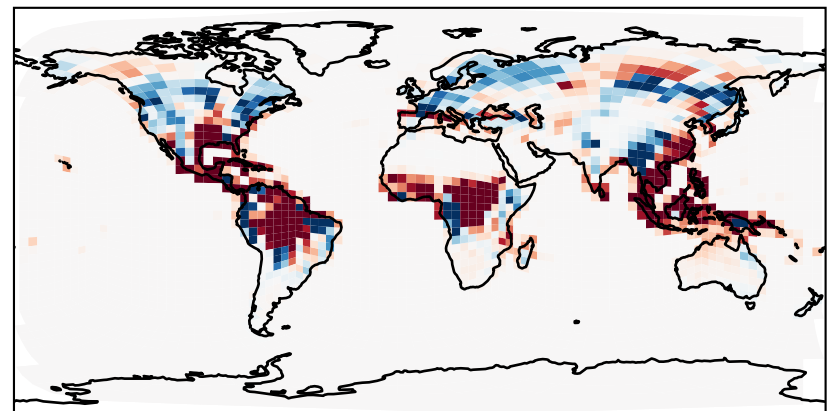
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



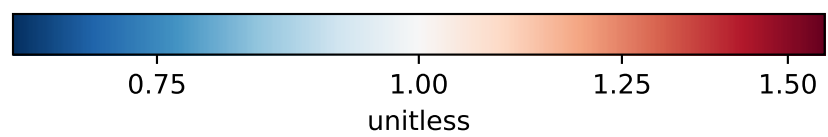
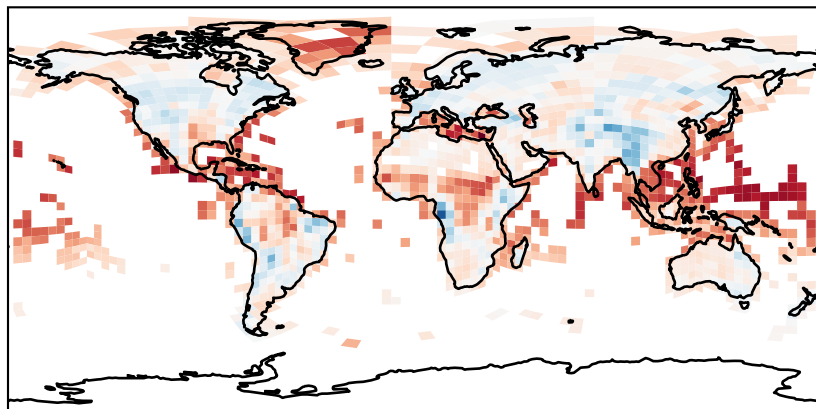
Difference  
Dev - Ref, Dynamic Range



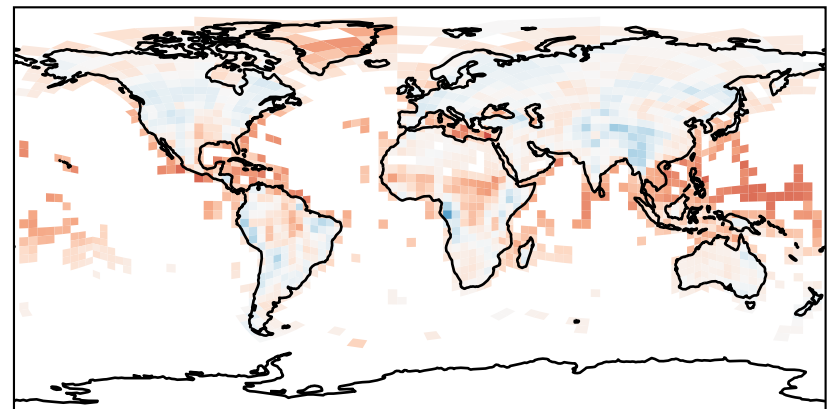
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

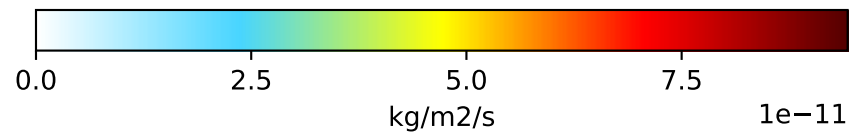
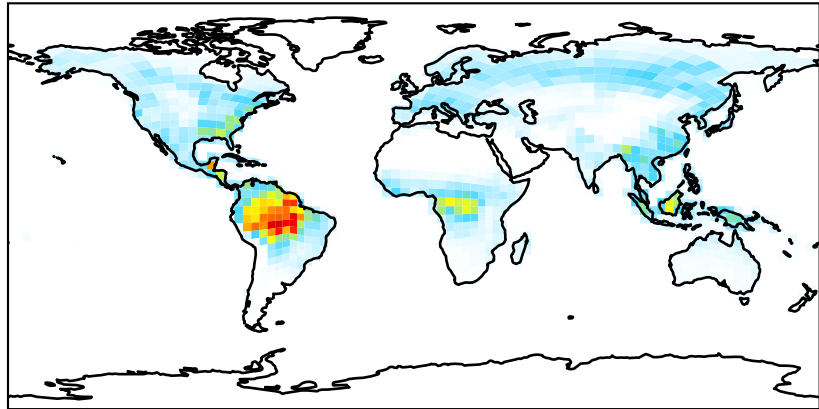


Ratio  
Dev/Ref, Fixed Range

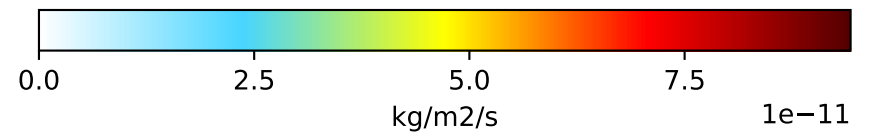
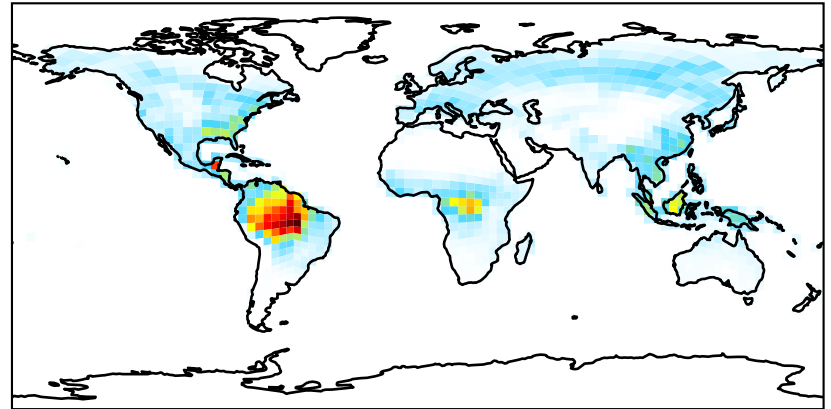


# EmisMTPO\_Total

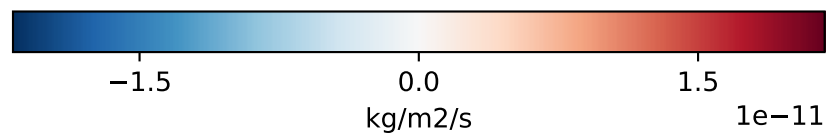
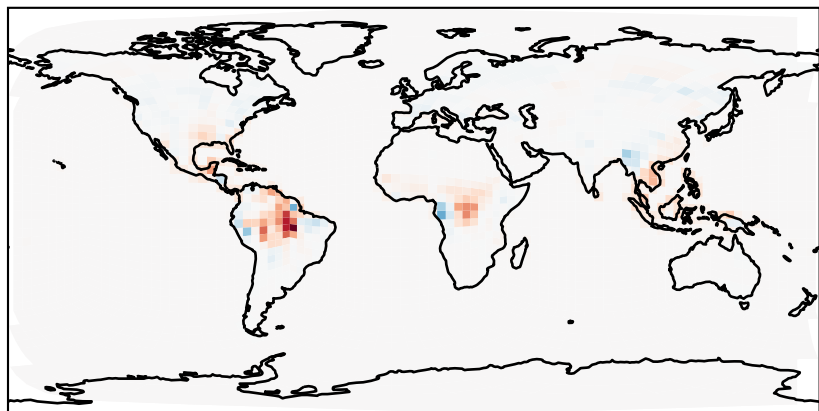
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



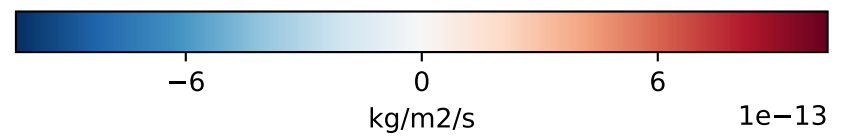
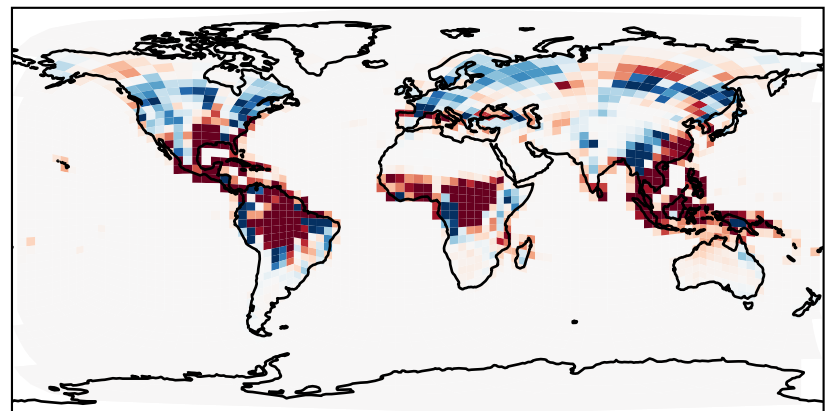
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



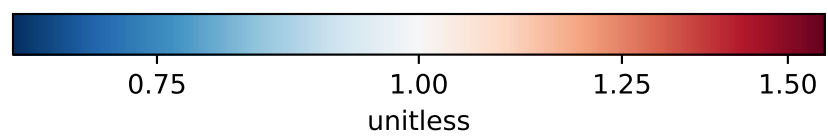
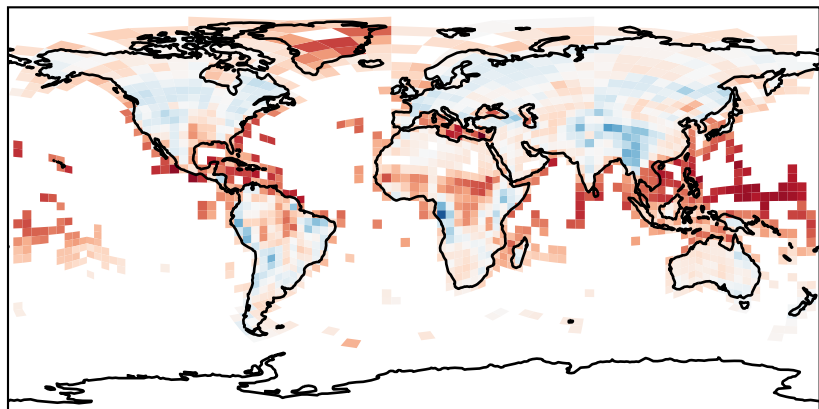
Difference  
Dev - Ref, Dynamic Range



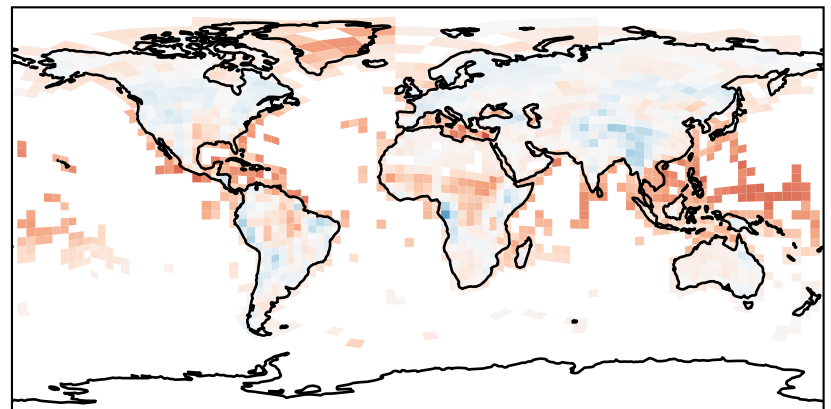
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

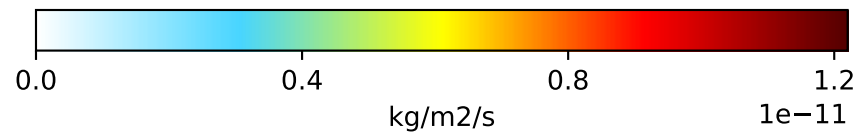
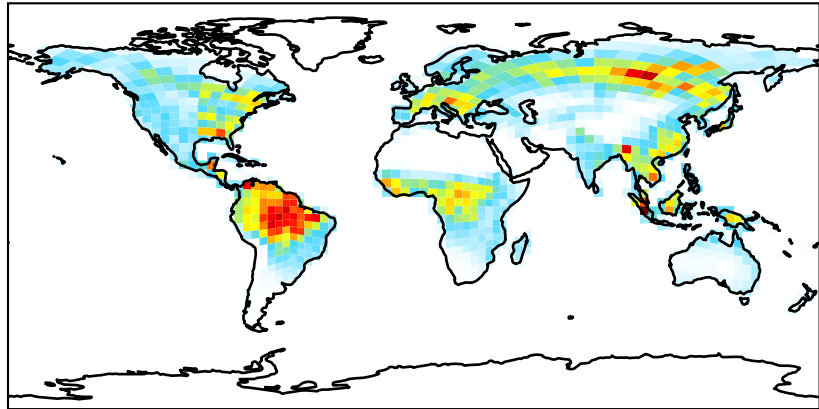


Ratio  
Dev/Ref, Fixed Range

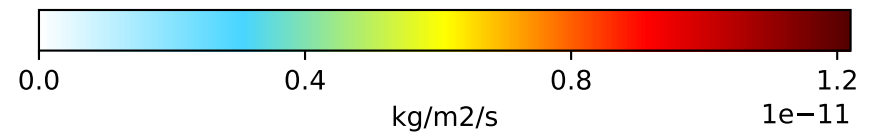
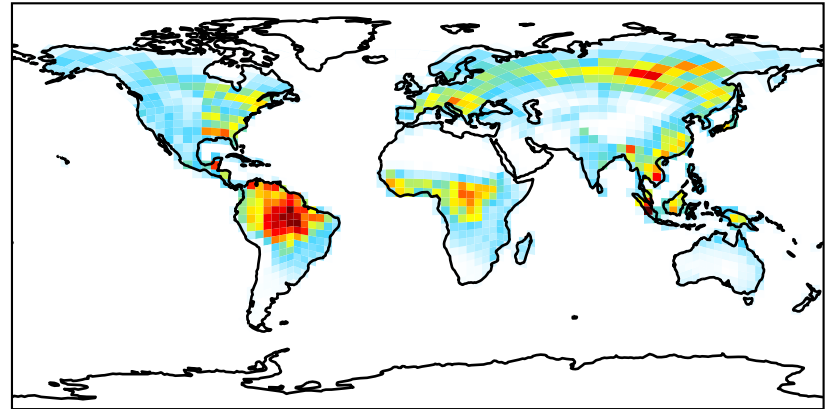


# EmisLIMO\_Biogenic

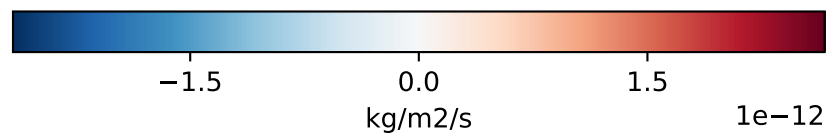
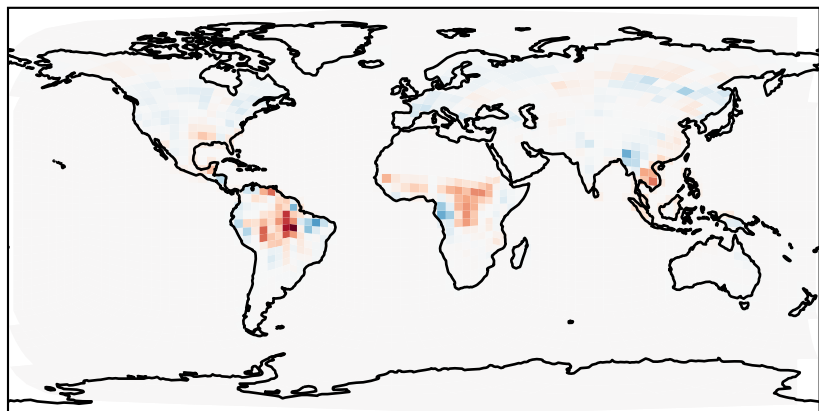
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



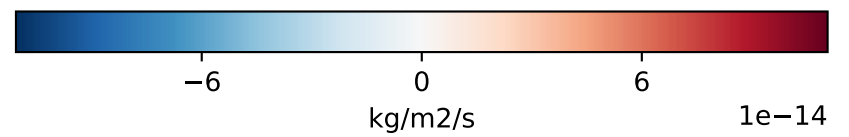
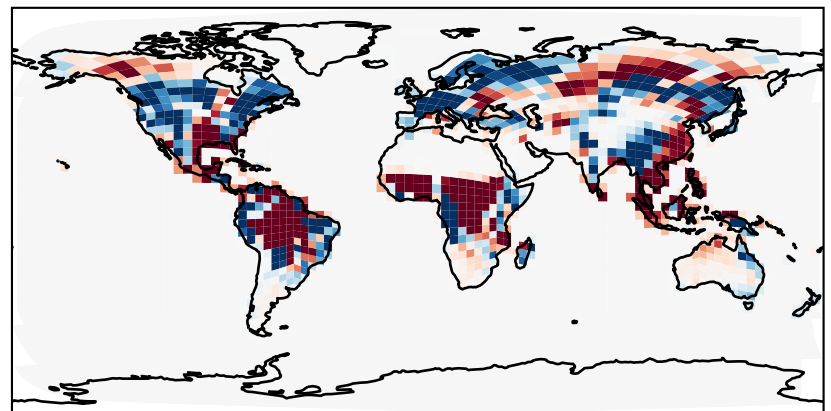
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



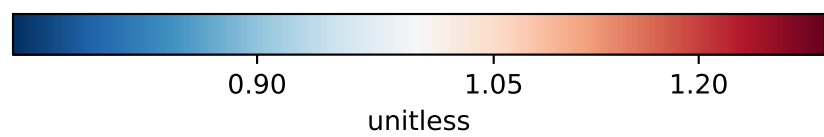
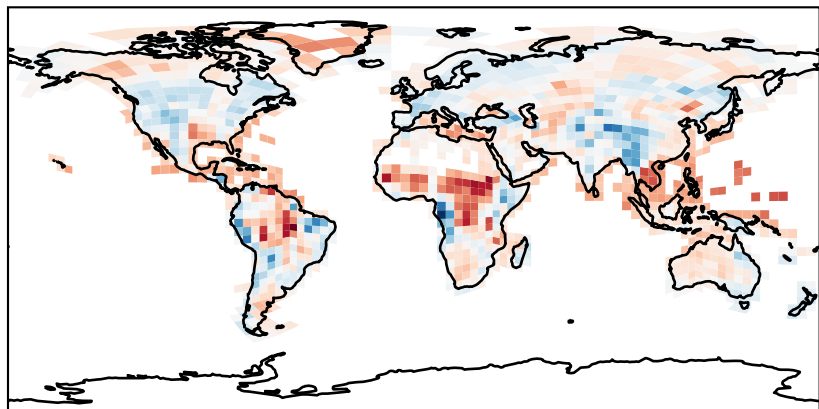
Difference  
Dev - Ref, Dynamic Range



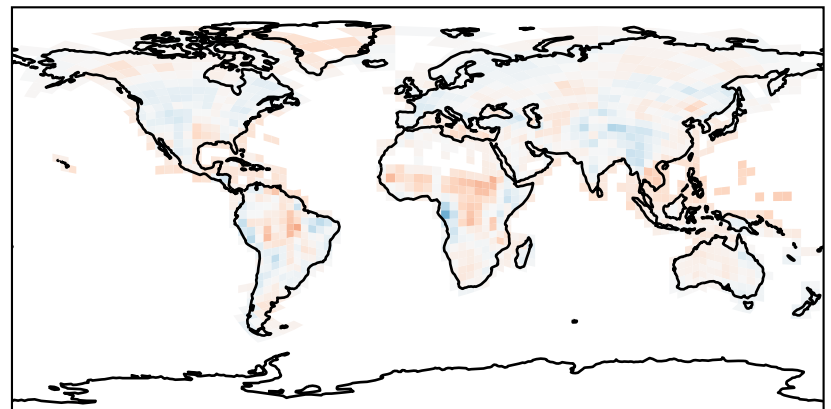
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



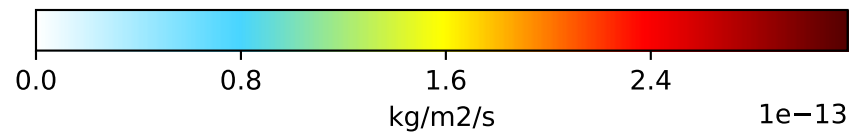
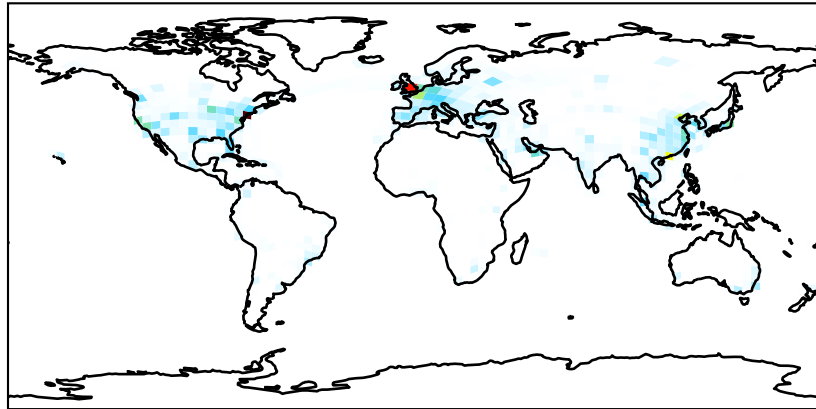
Ratio  
Dev/Ref, Fixed Range



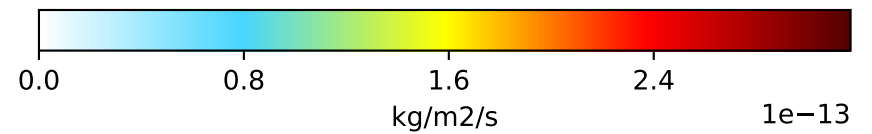
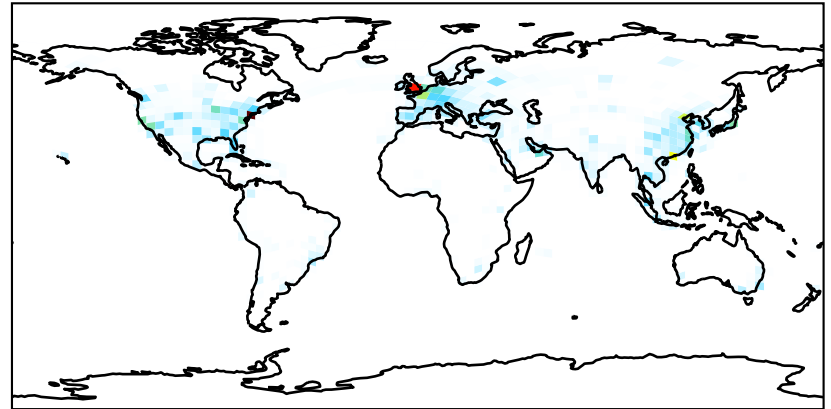


# EmisALK4\_Aircraft

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



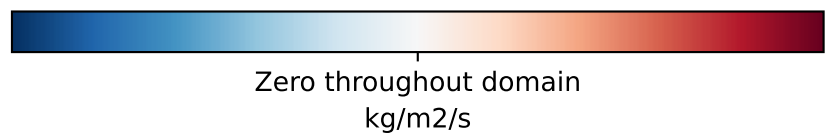
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



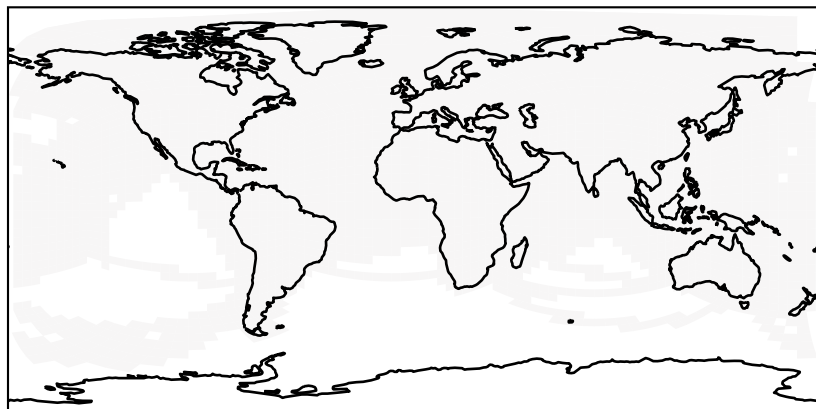
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



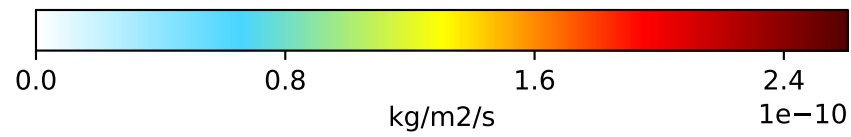
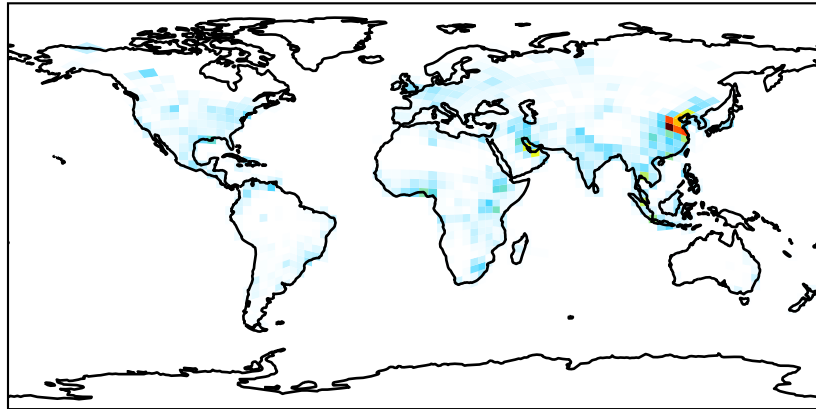
Ratio  
Dev/Ref, Fixed Range



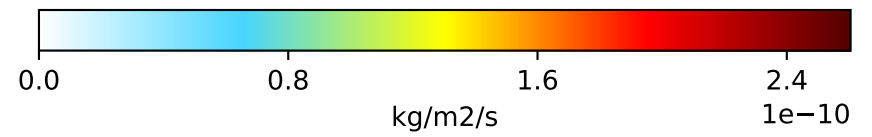
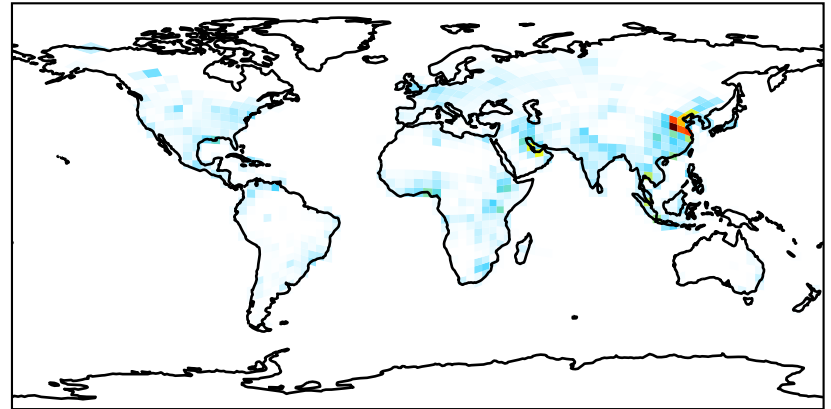


# EmisALK4\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



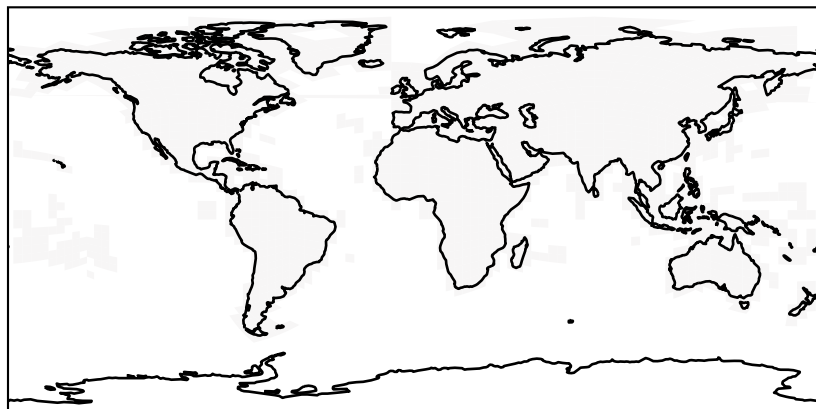
Difference  
Dev - Ref, Dynamic Range



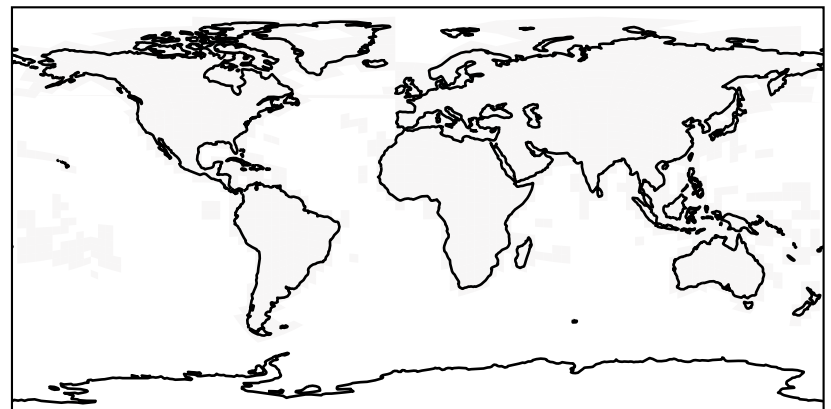
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

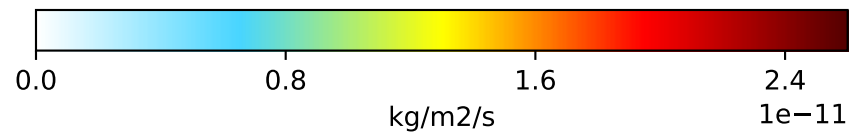
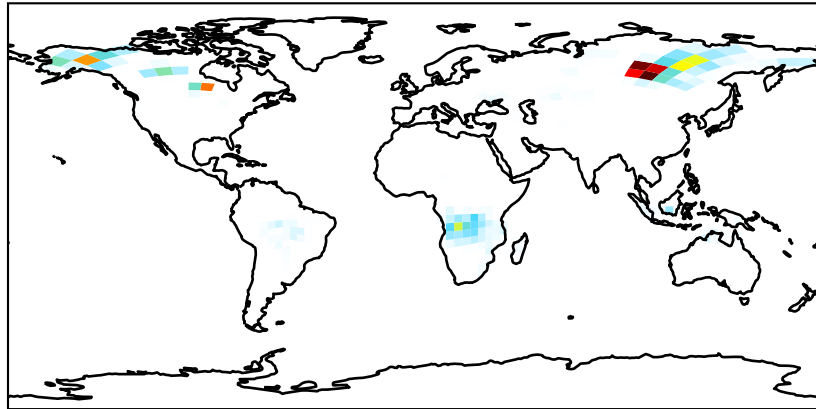


Ratio  
Dev/Ref, Fixed Range

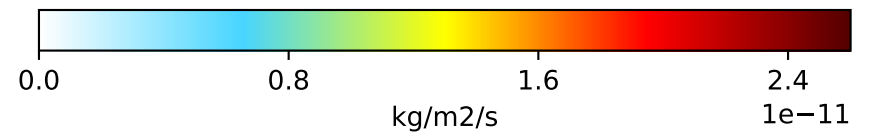
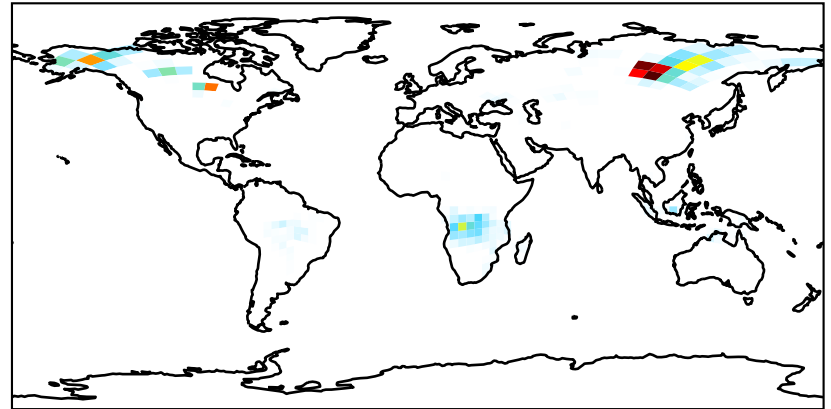


# EmisALK4\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



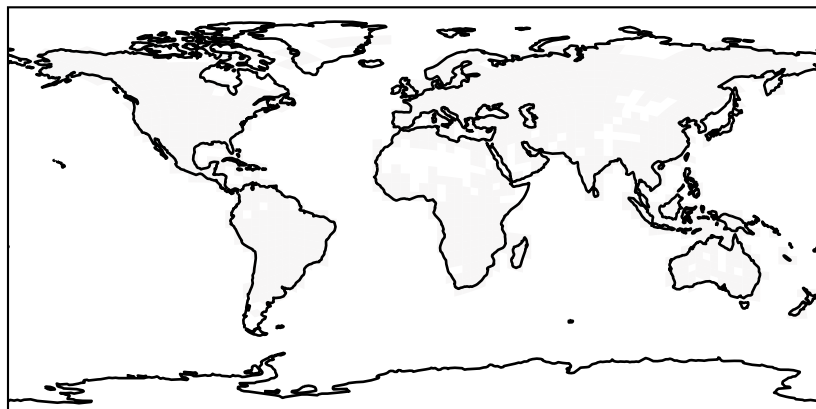
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

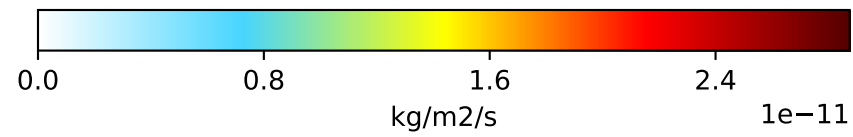
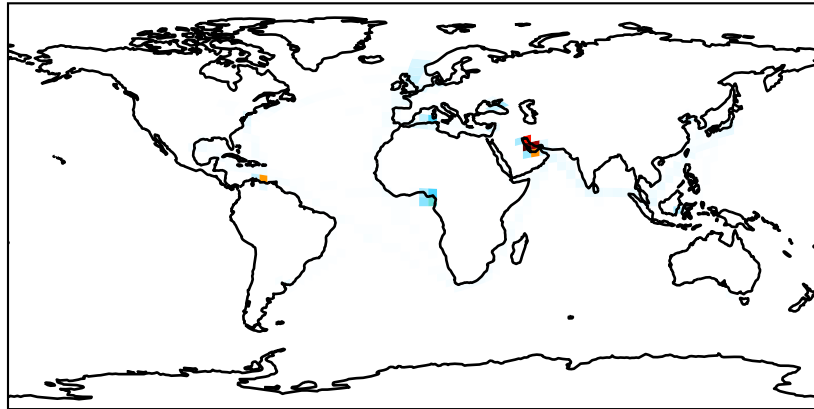


Ratio  
Dev/Ref, Fixed Range

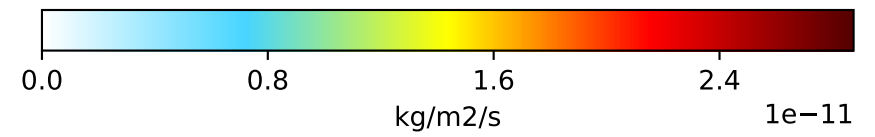
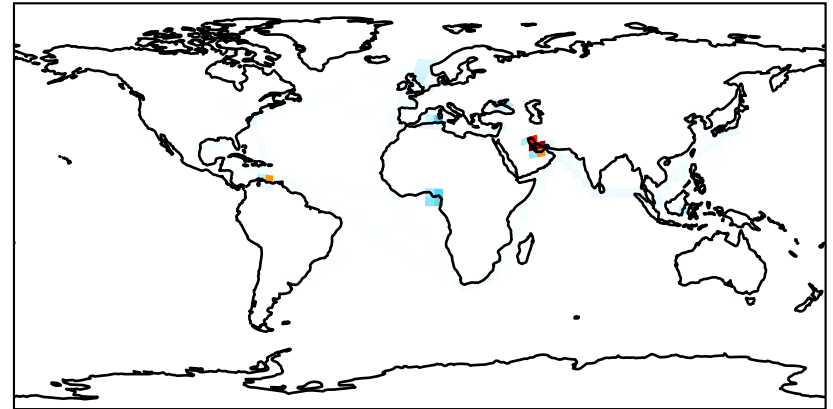


# EmisALK4\_Ship

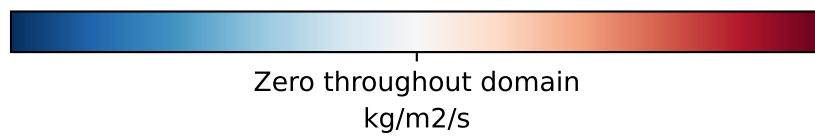
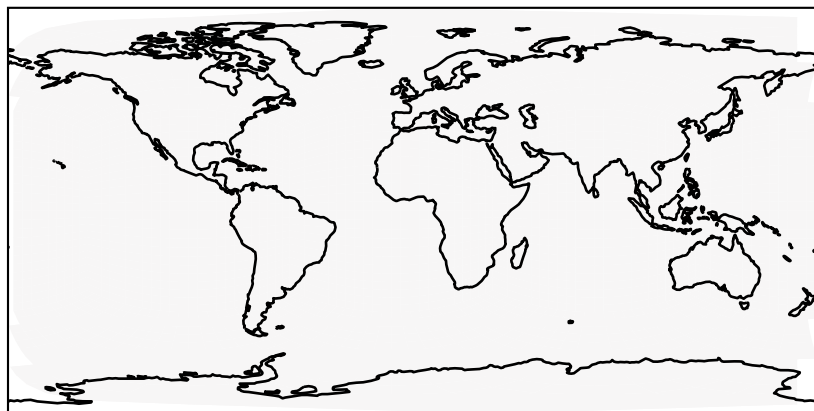
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



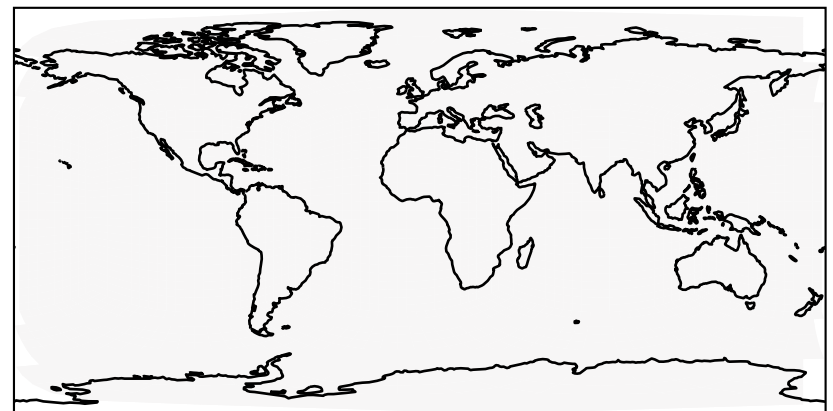
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



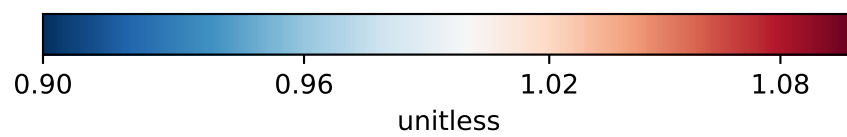
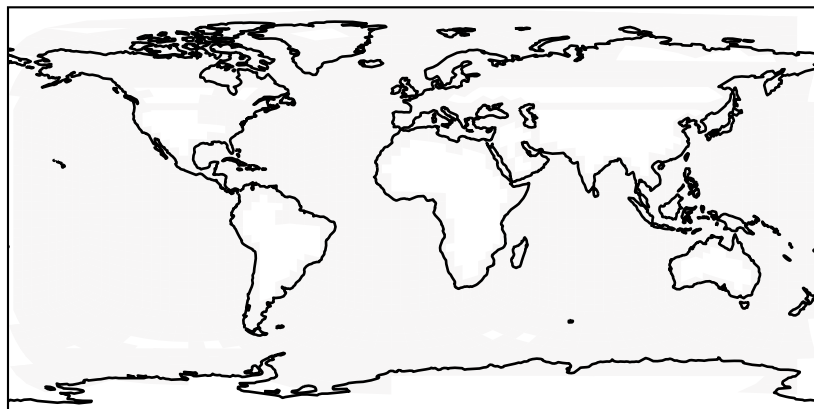
Difference  
Dev - Ref, Dynamic Range



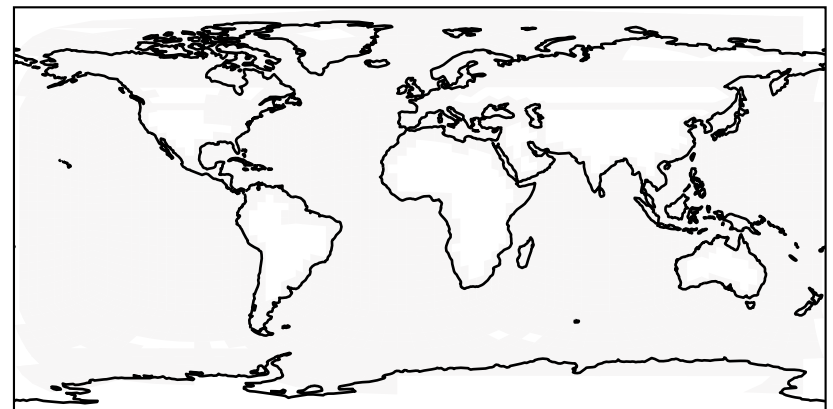
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

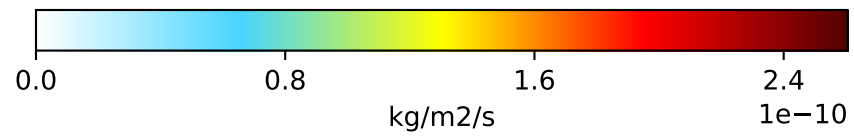
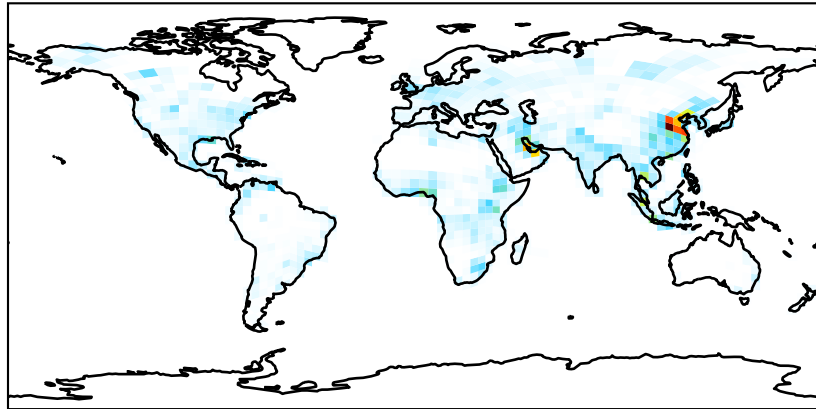


Ratio  
Dev/Ref, Fixed Range

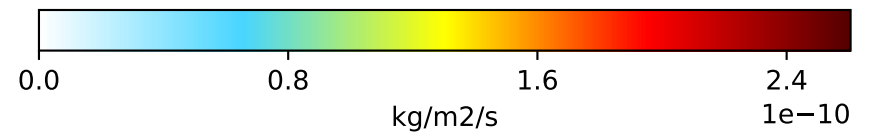
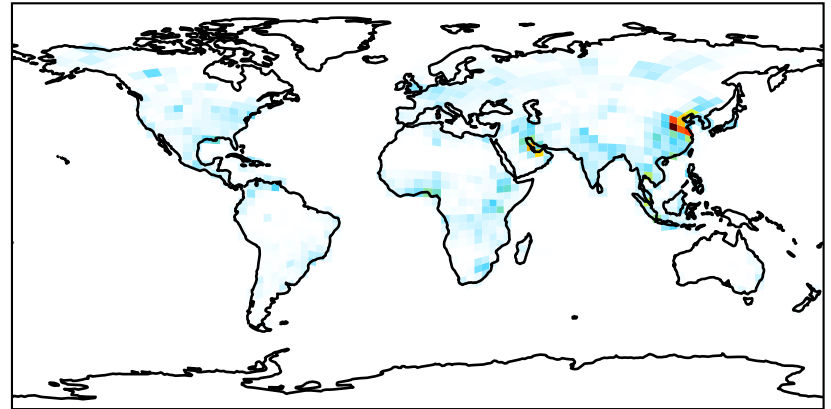


# EmisALK4\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



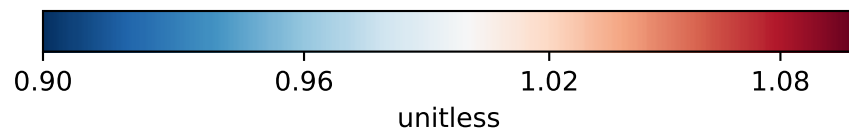
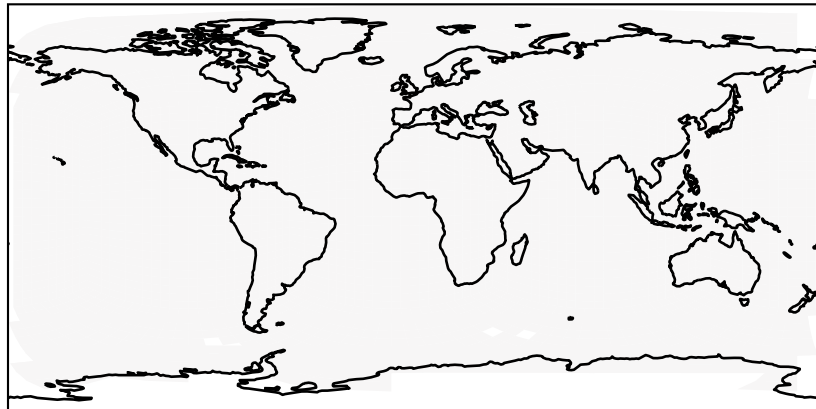
Difference  
Dev - Ref, Dynamic Range



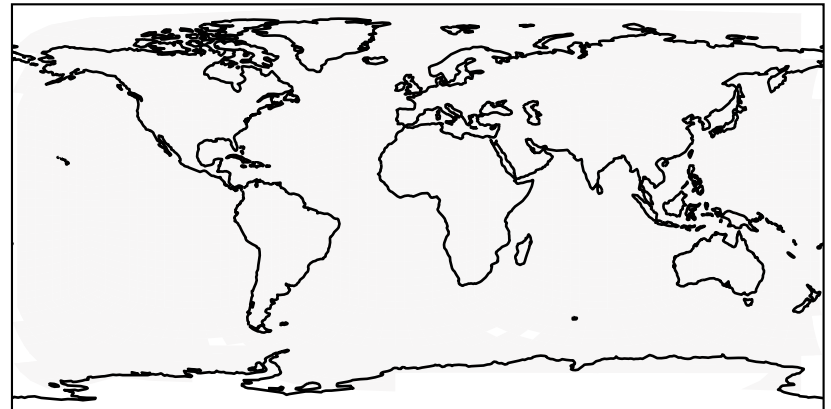
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



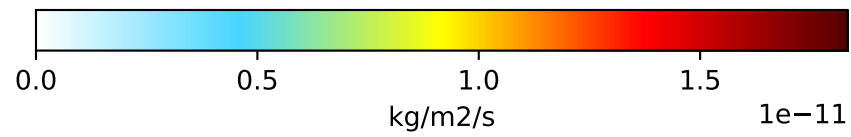
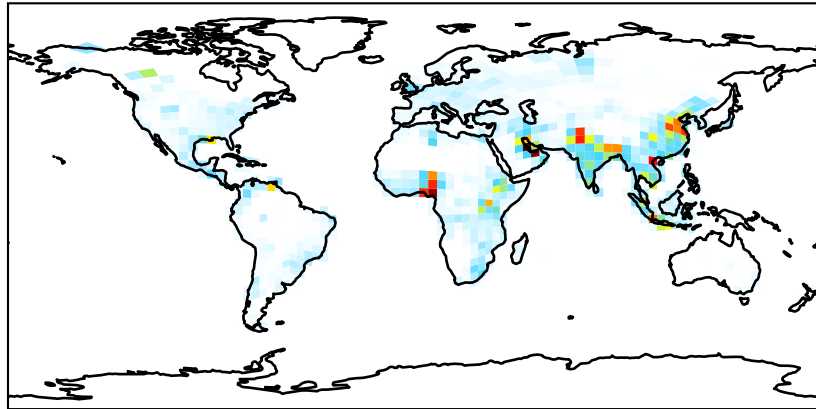
Ratio  
Dev/Ref, Fixed Range



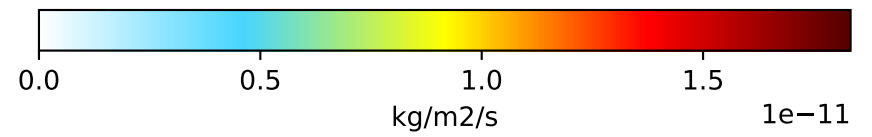
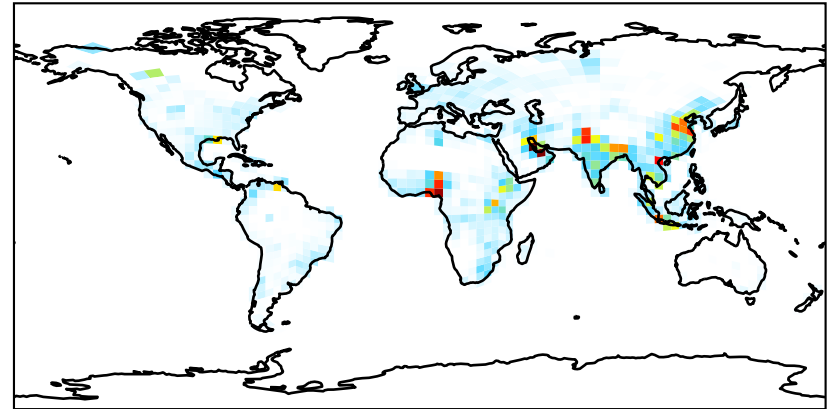


# EmisBENZ\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



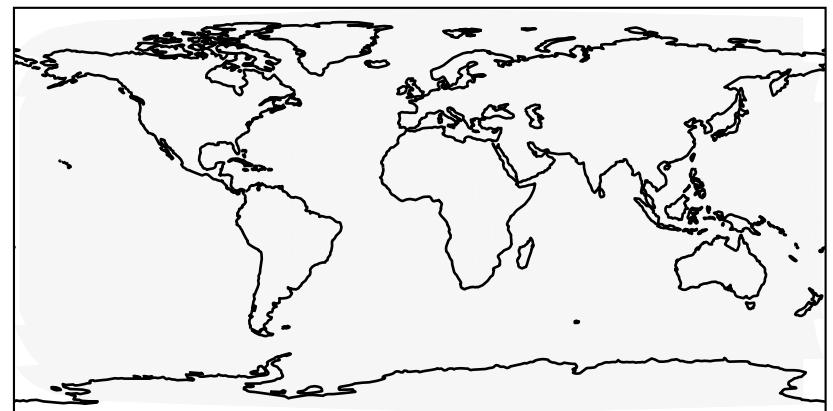
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



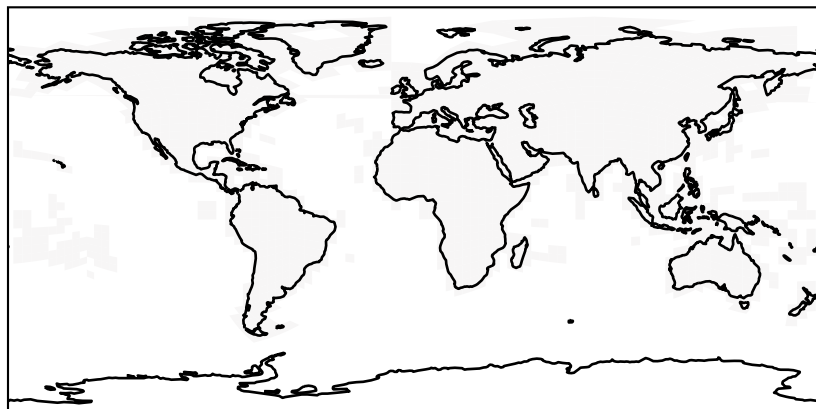
Difference  
Dev - Ref, Dynamic Range



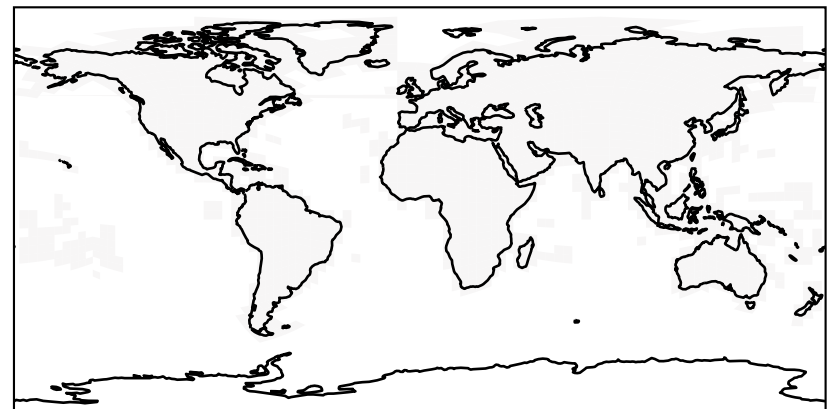
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

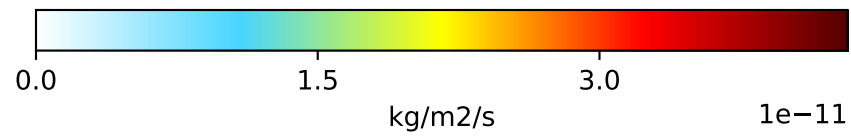
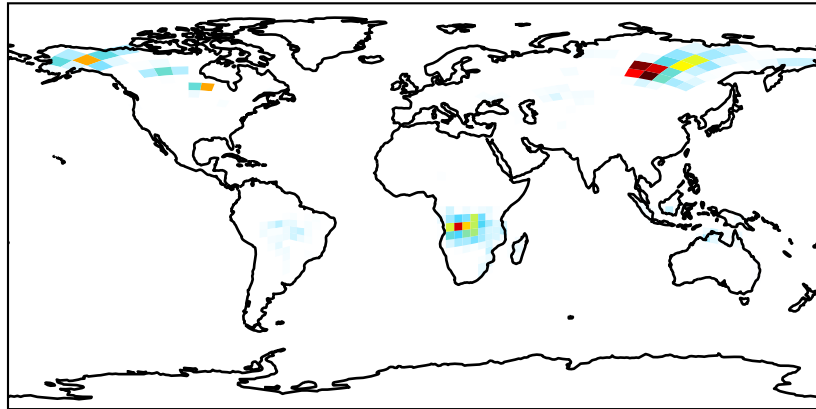


Ratio  
Dev/Ref, Fixed Range

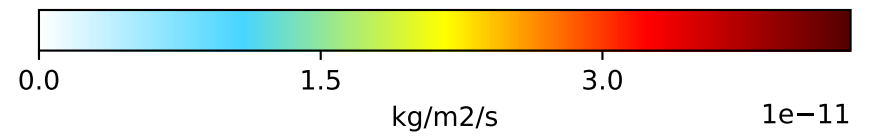
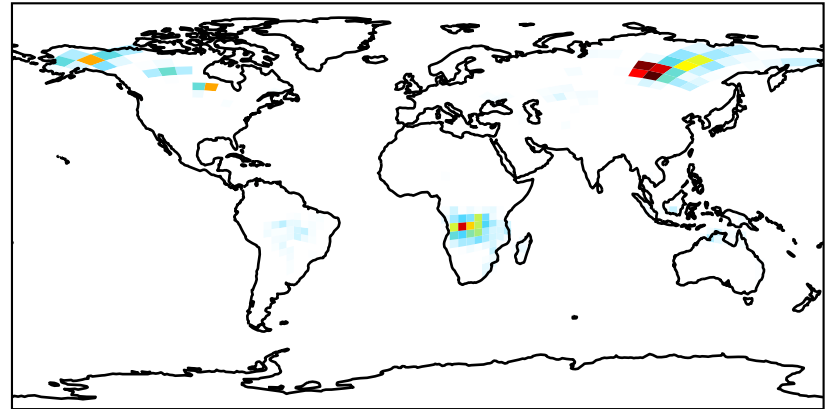


# EmisBENZ\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



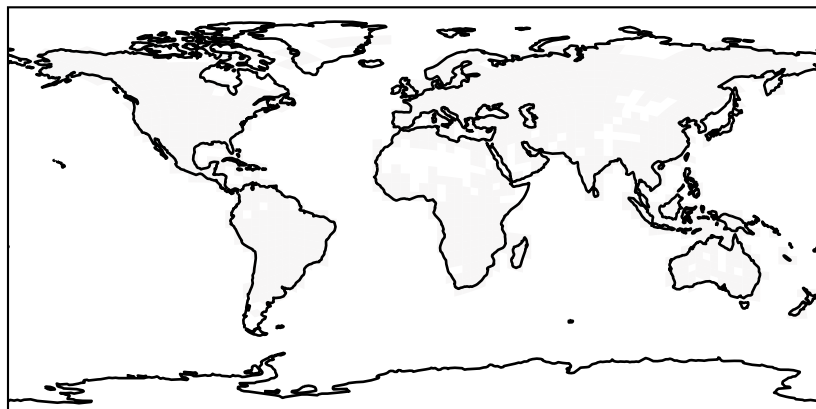
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

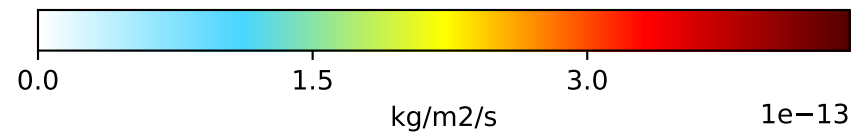
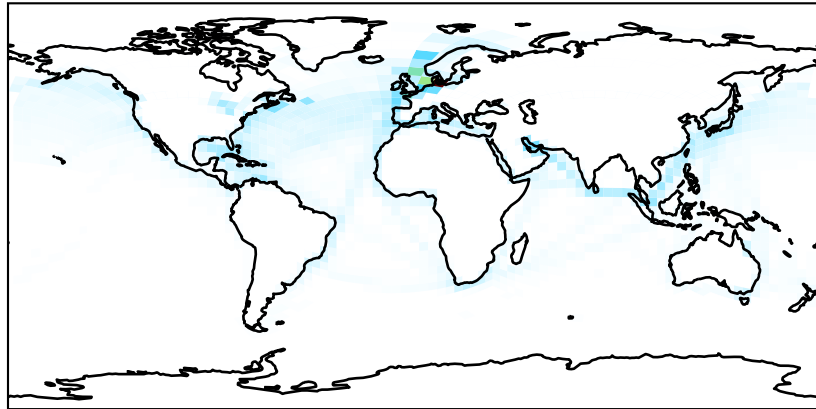


Ratio  
Dev/Ref, Fixed Range

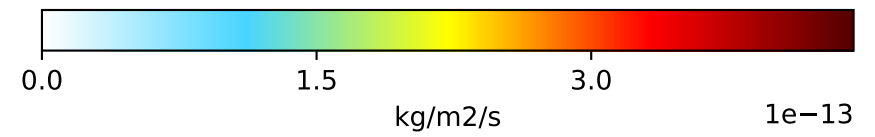
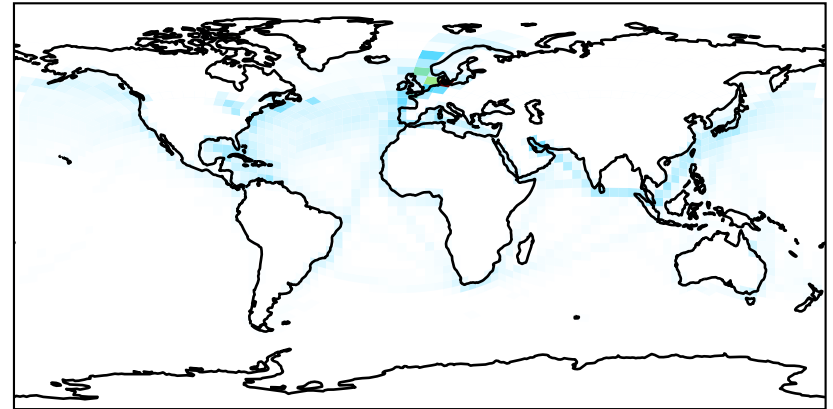


# EmisBENZ\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



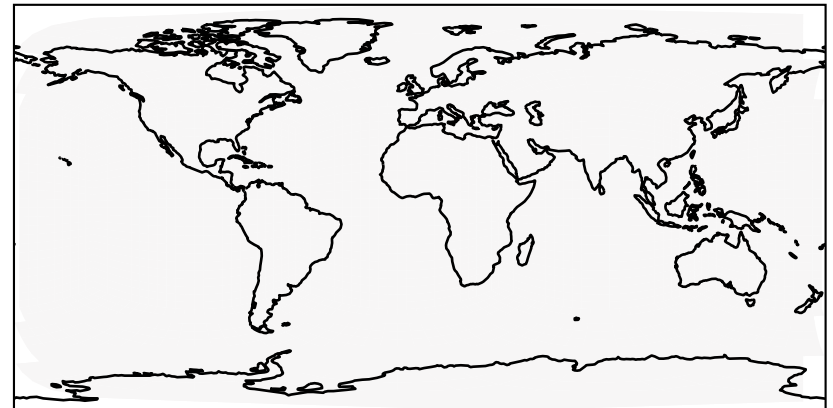
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



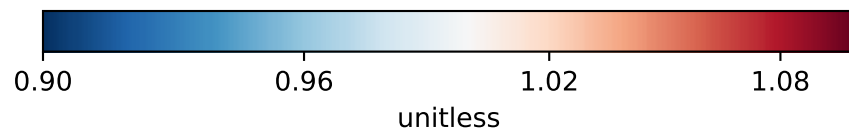
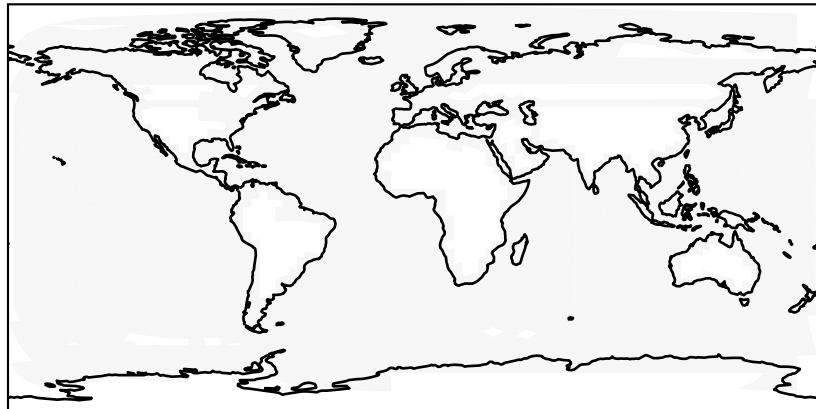
Difference  
Dev - Ref, Dynamic Range



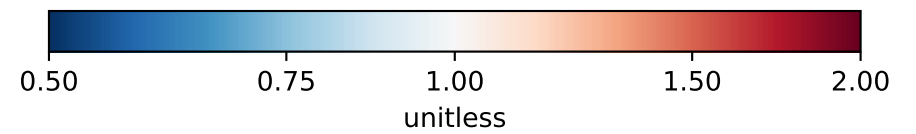
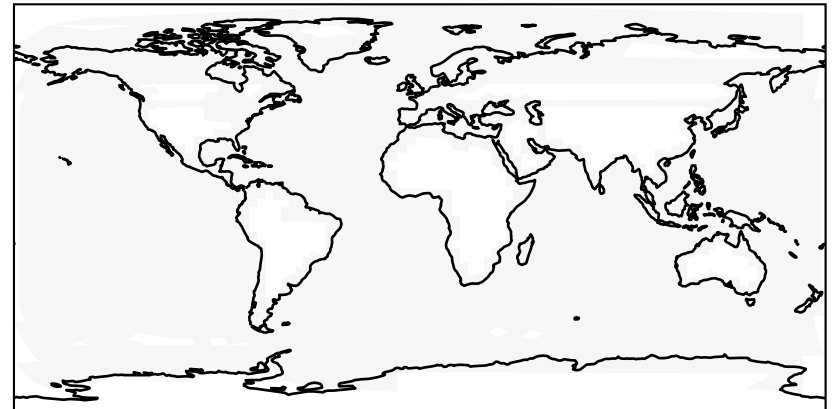
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

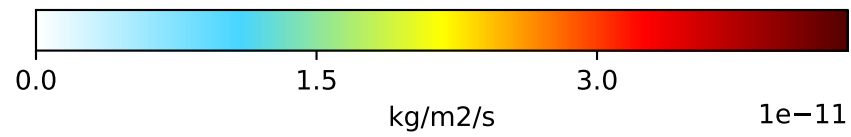
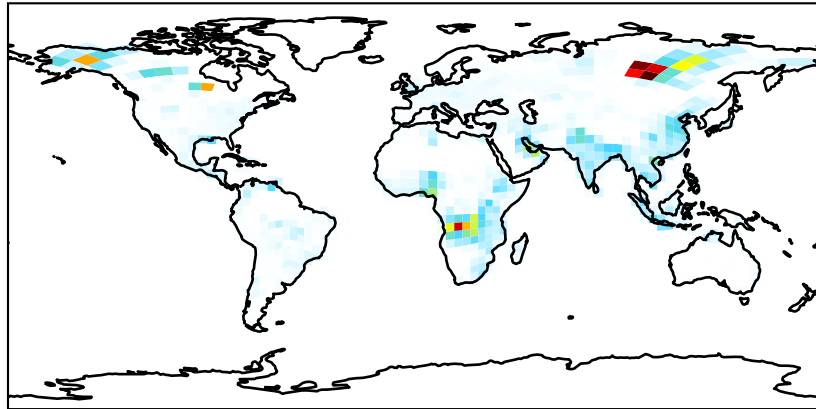


Ratio  
Dev/Ref, Fixed Range

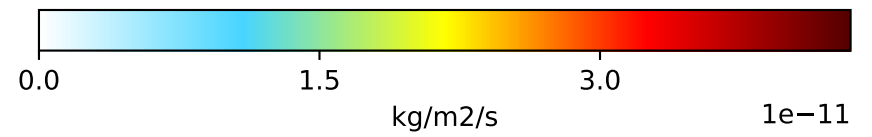
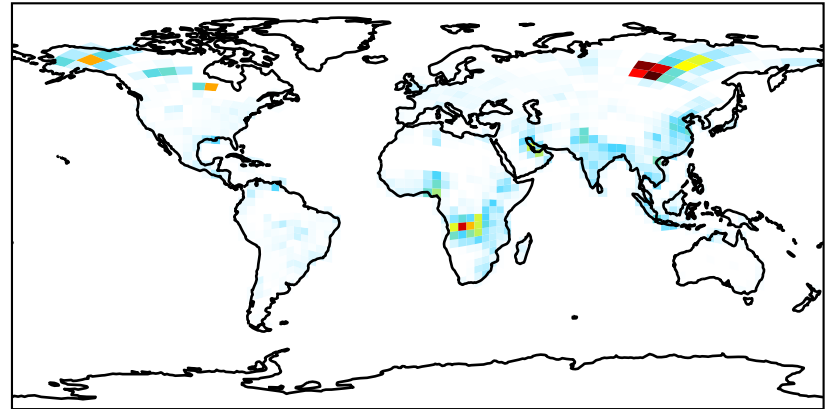


# EmisBENZ\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



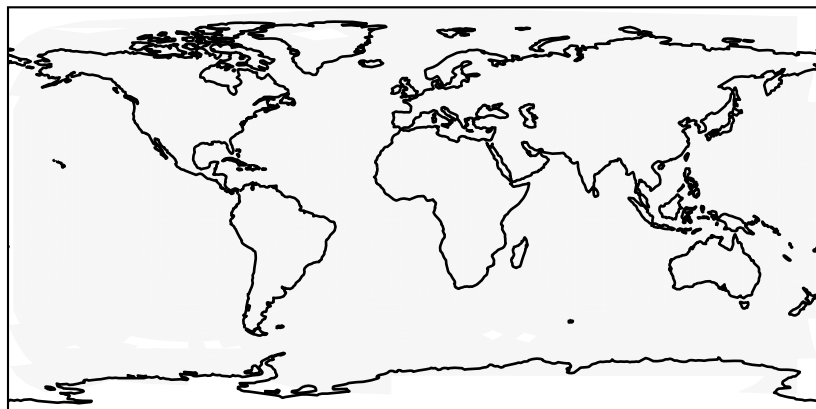
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



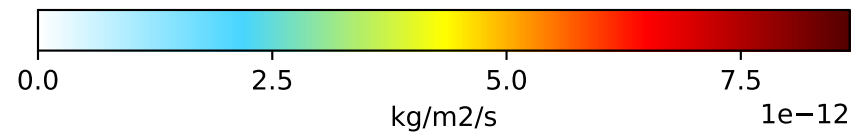
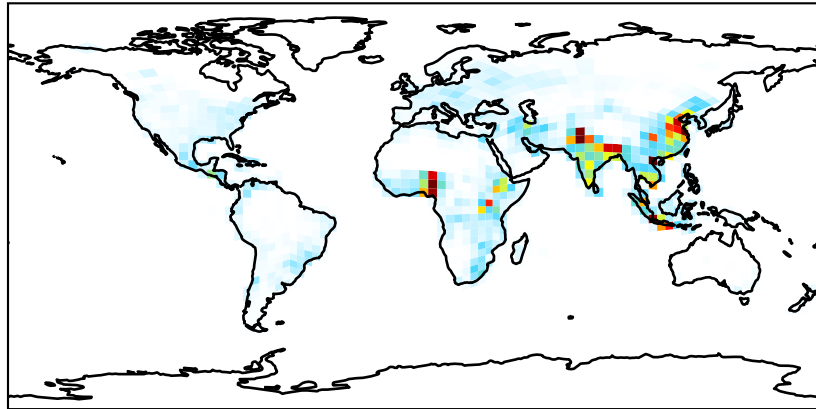
Ratio  
Dev/Ref, Fixed Range



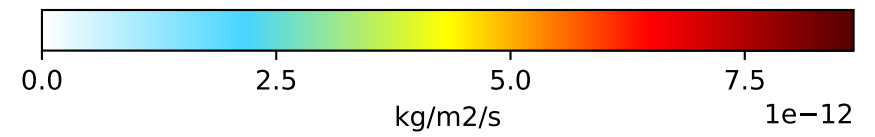
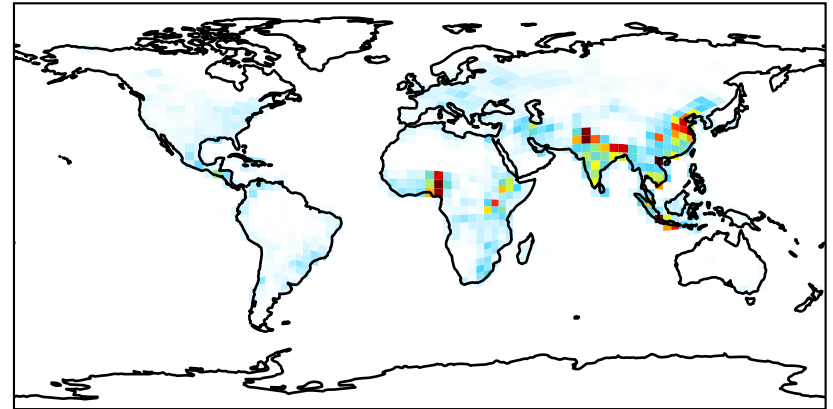


# EmisC2H2\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



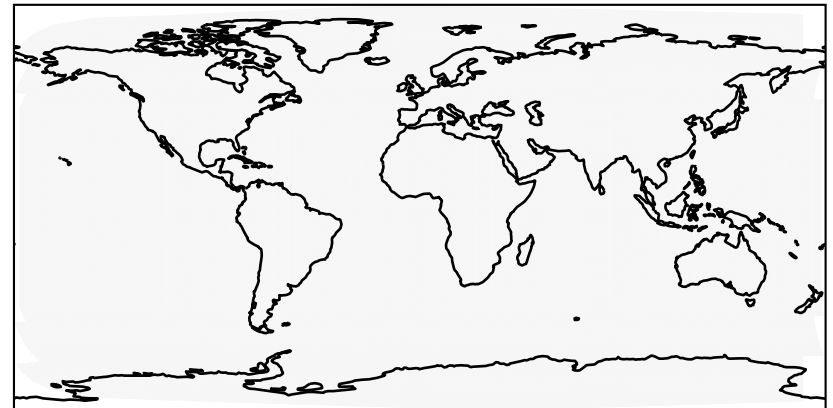
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



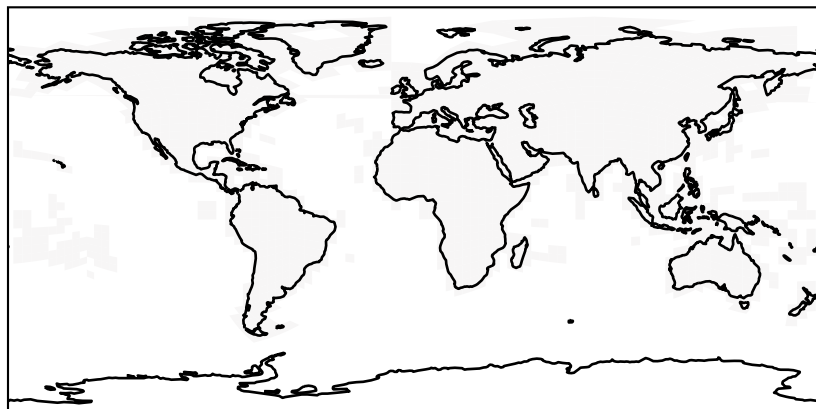
Difference  
Dev - Ref, Dynamic Range



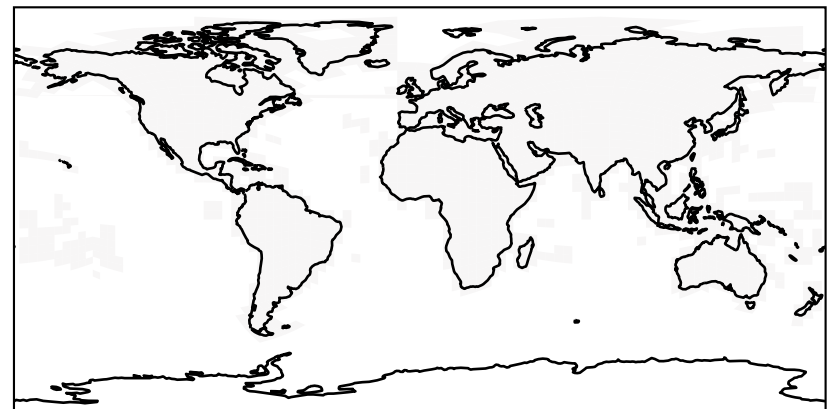
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

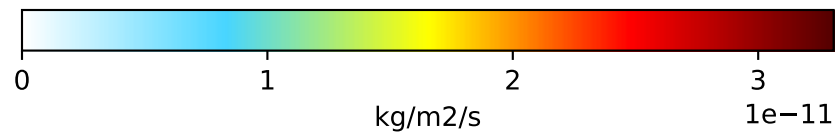
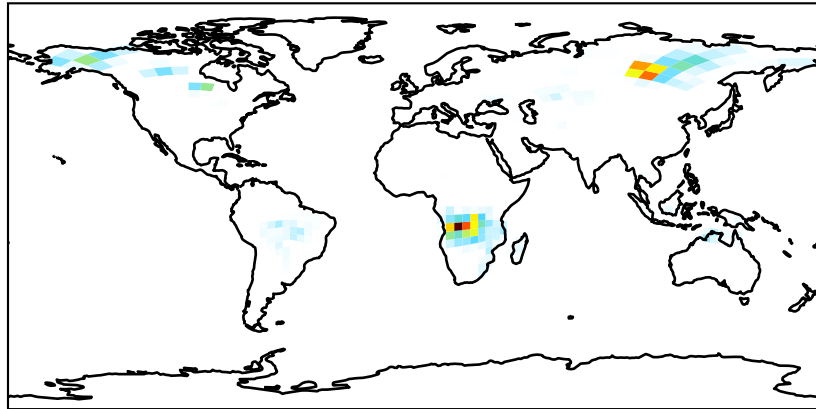


Ratio  
Dev/Ref, Fixed Range

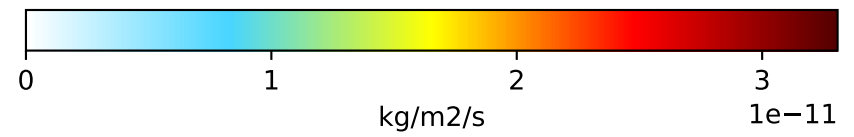
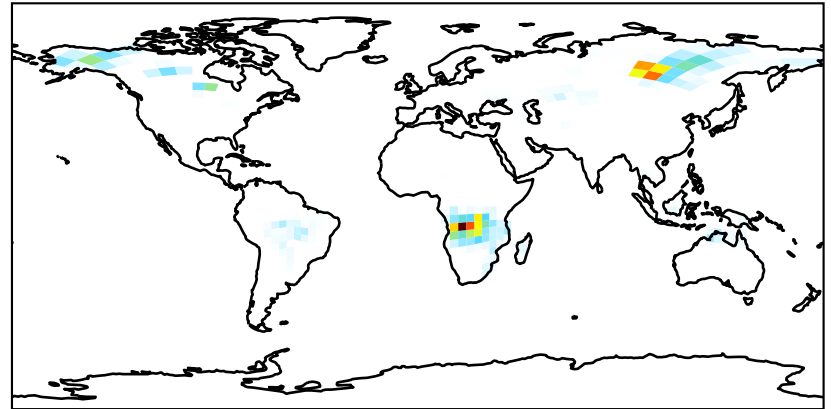


# EmisC2H2\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



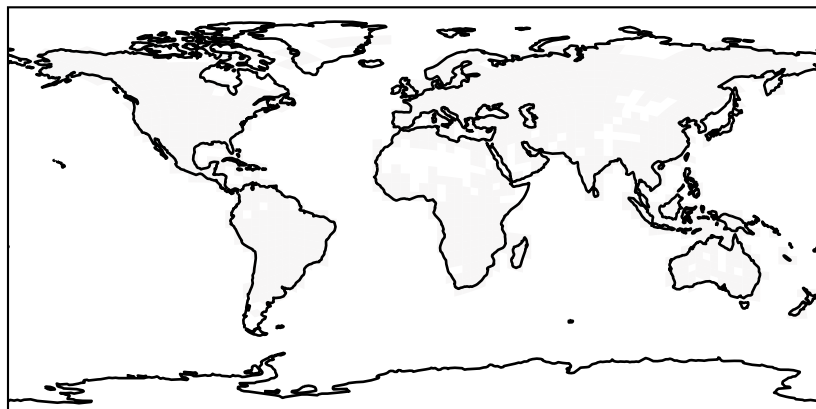
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

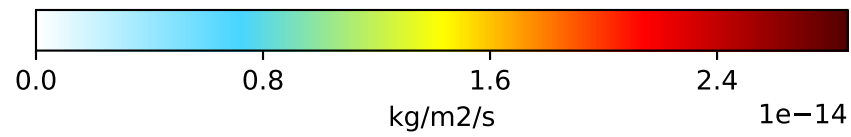
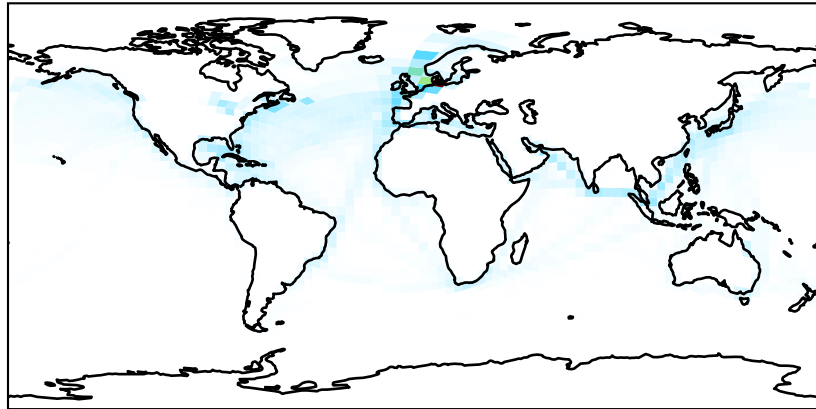


Ratio  
Dev/Ref, Fixed Range

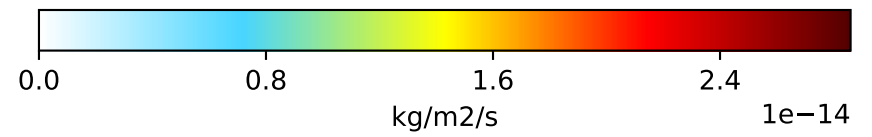
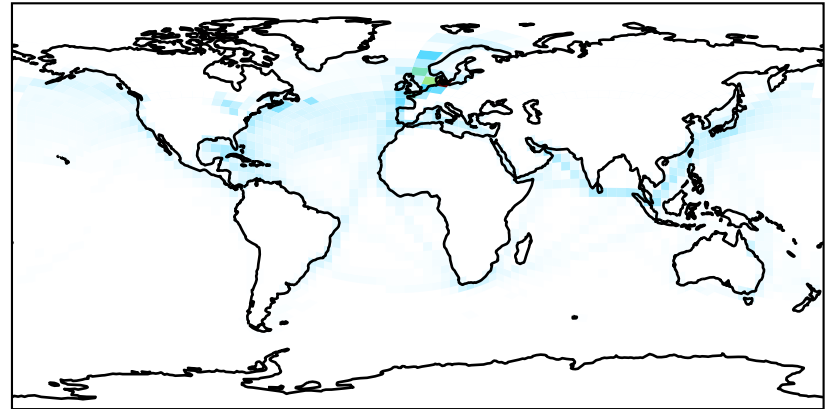


# EmisC2H2\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



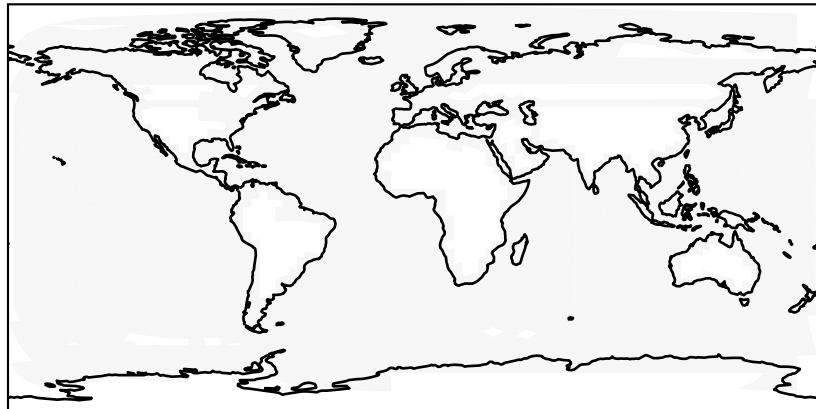
Difference  
Dev - Ref, Dynamic Range



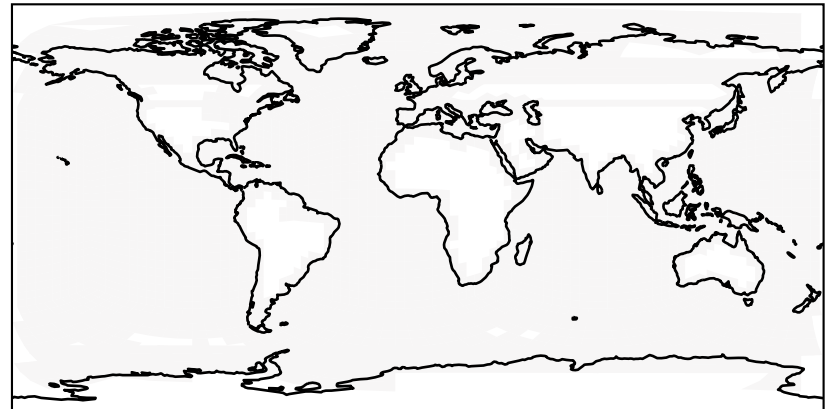
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

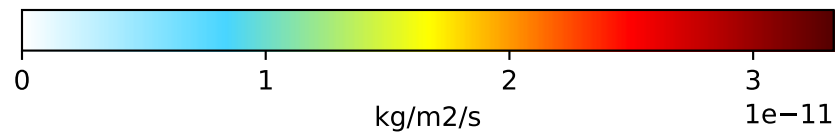
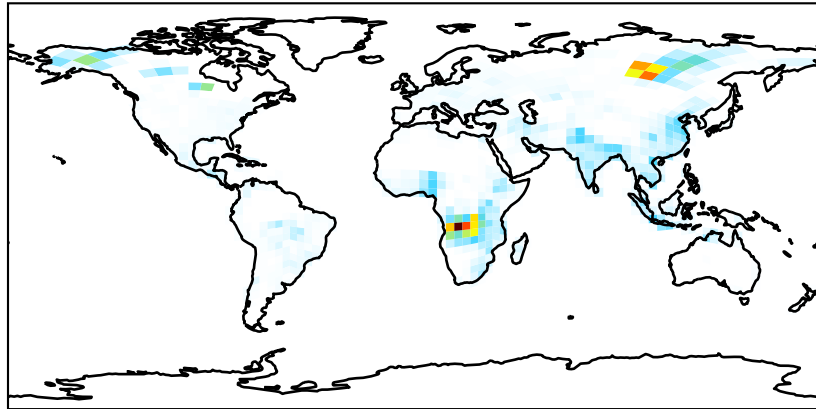


Ratio  
Dev/Ref, Fixed Range

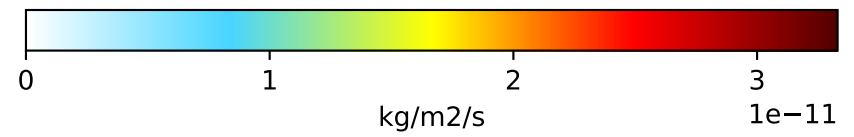
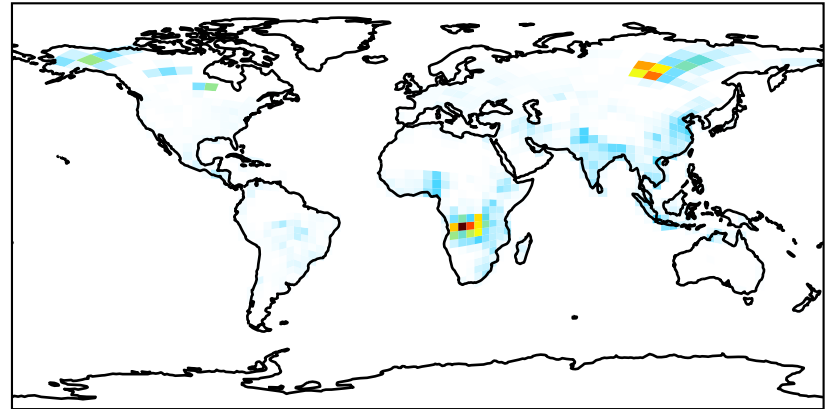


# EmisC2H2\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



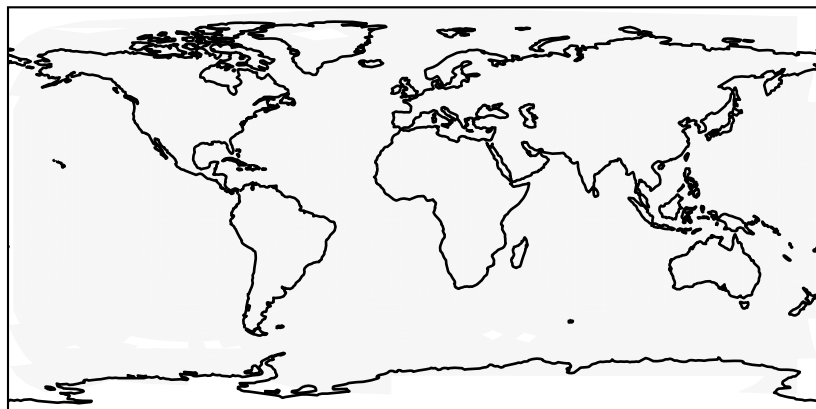
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



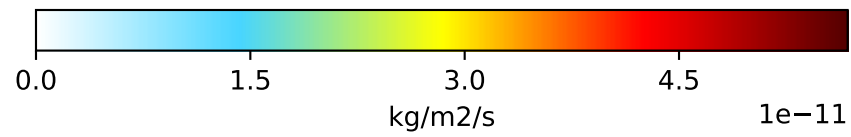
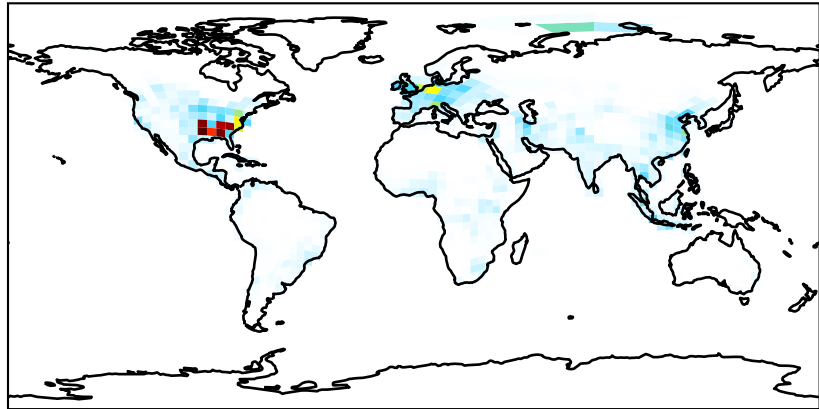
Ratio  
Dev/Ref, Fixed Range



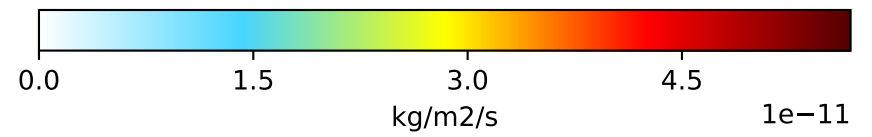
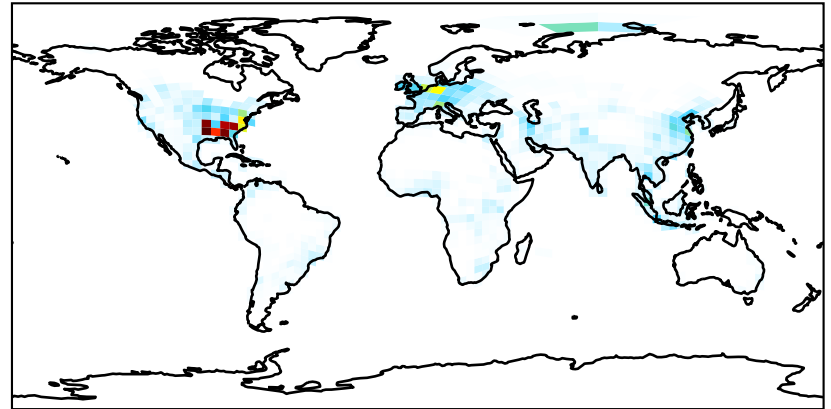


# EmisC2H4\_Anthro

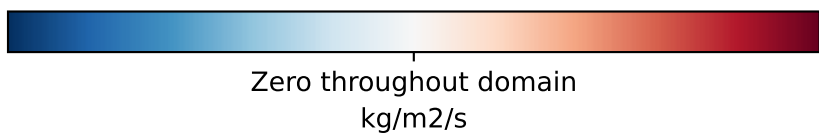
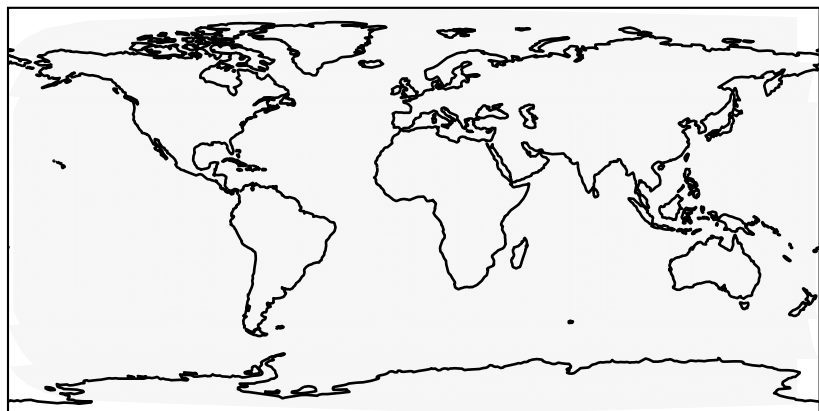
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



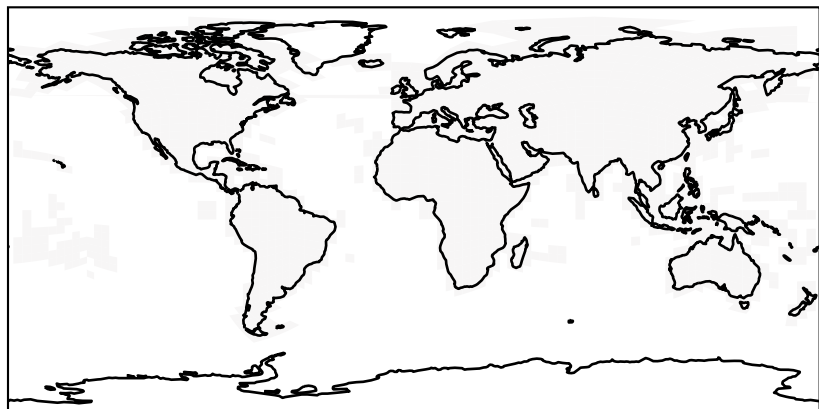
Difference  
Dev - Ref, Dynamic Range



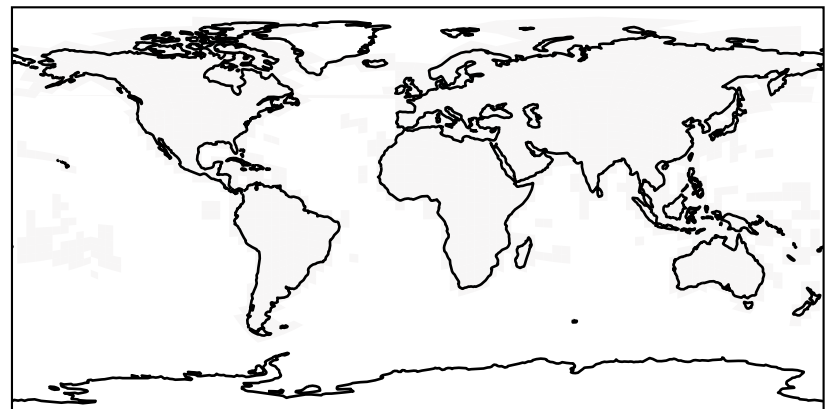
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

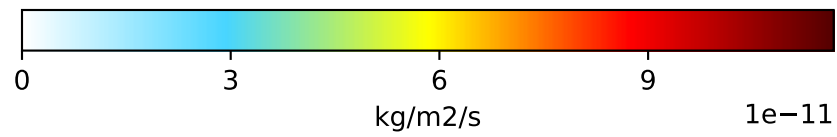
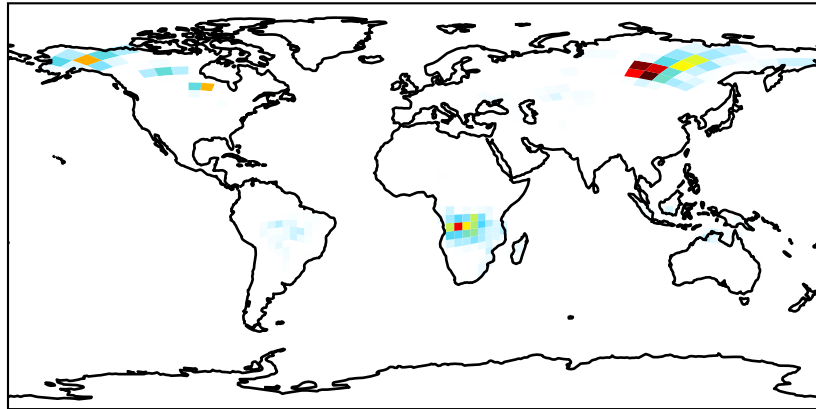


Ratio  
Dev/Ref, Fixed Range

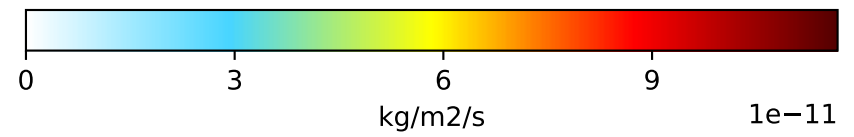
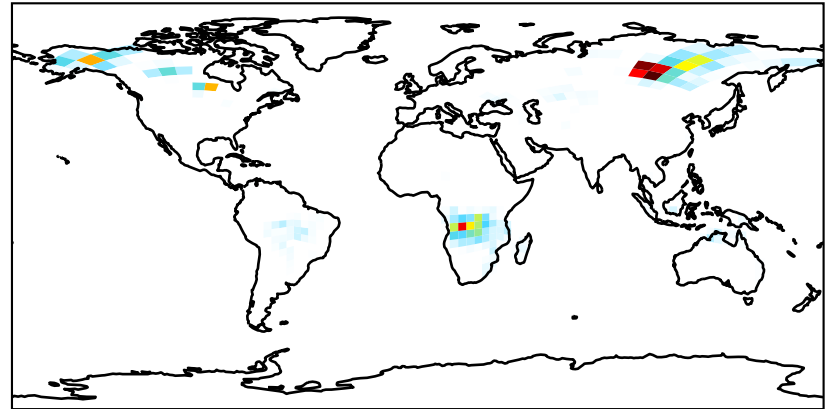


# EmisC2H4\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



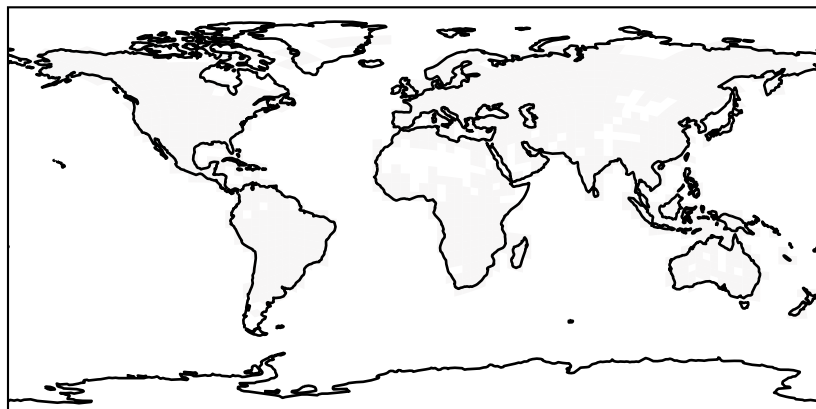
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

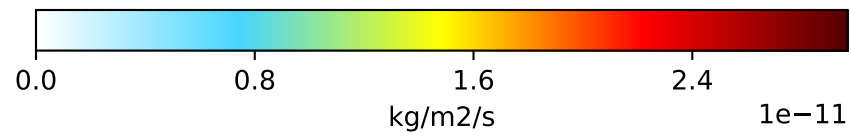
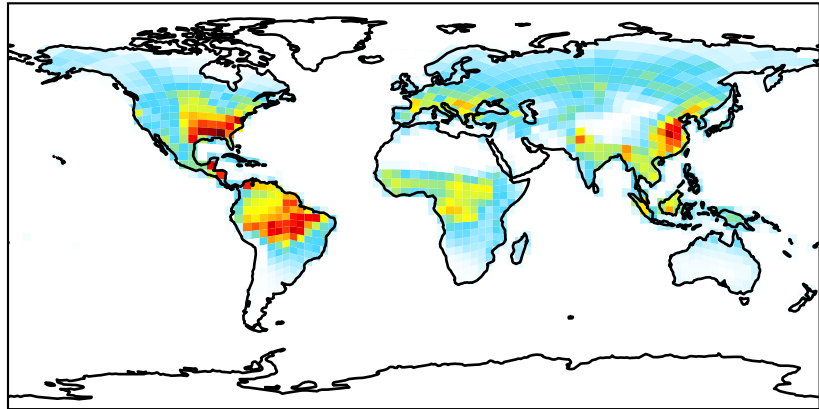


Ratio  
Dev/Ref, Fixed Range

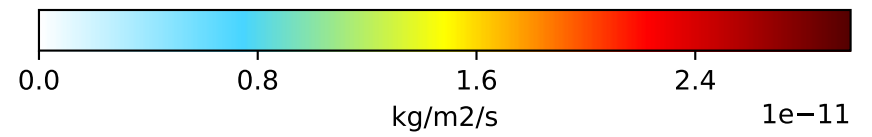
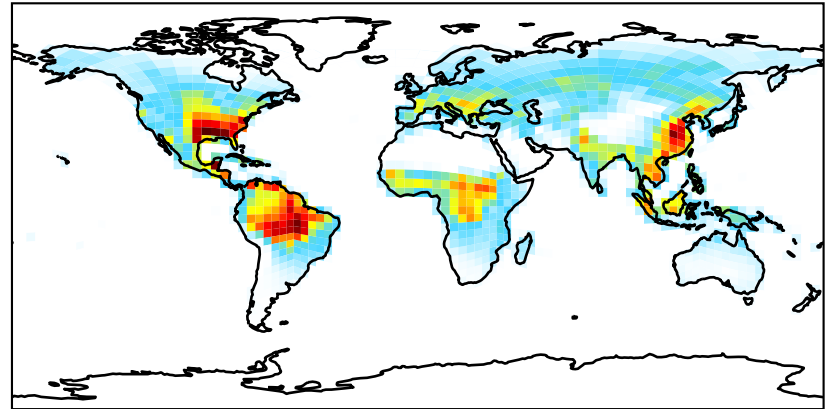


# EmisC2H4\_Biogenic

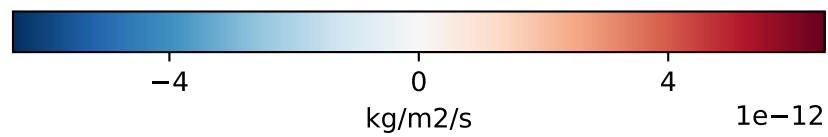
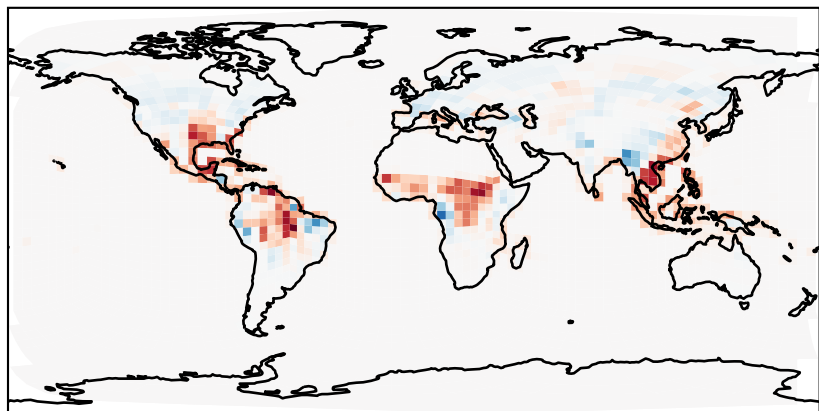
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



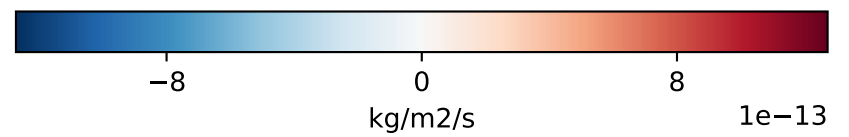
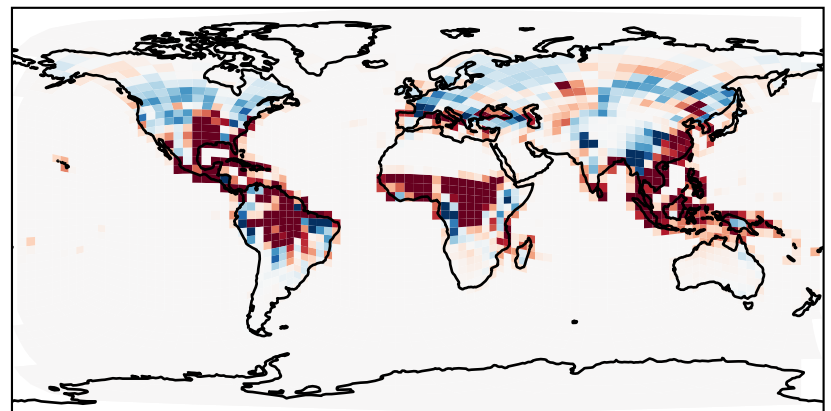
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



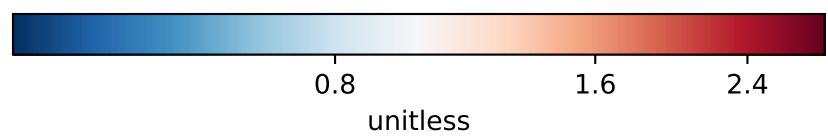
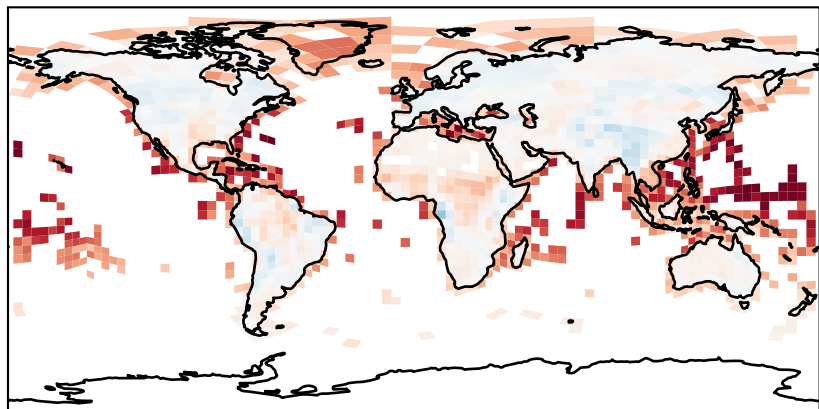
Difference  
Dev - Ref, Dynamic Range



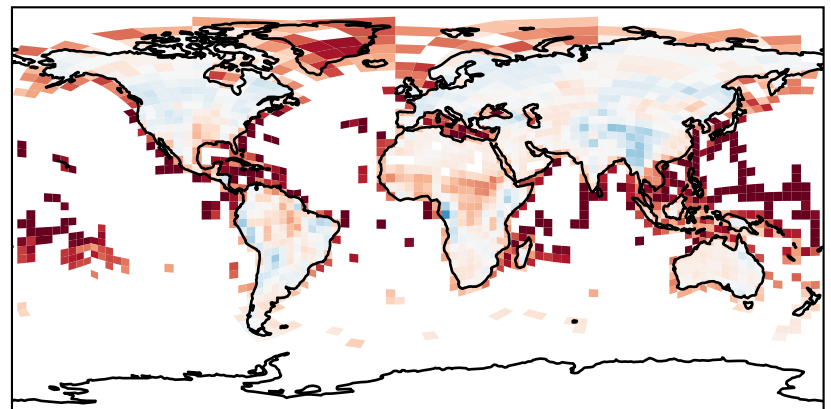
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

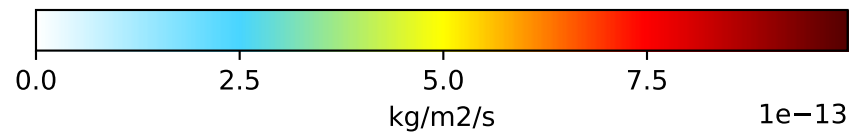
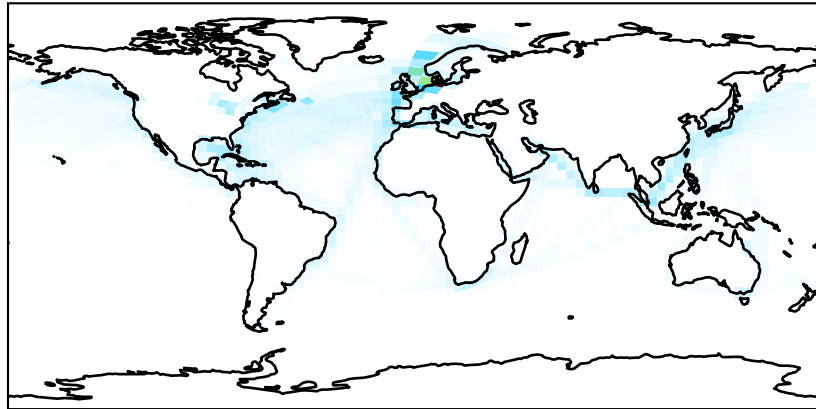


Ratio  
Dev/Ref, Fixed Range

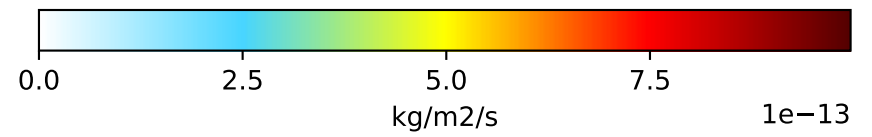
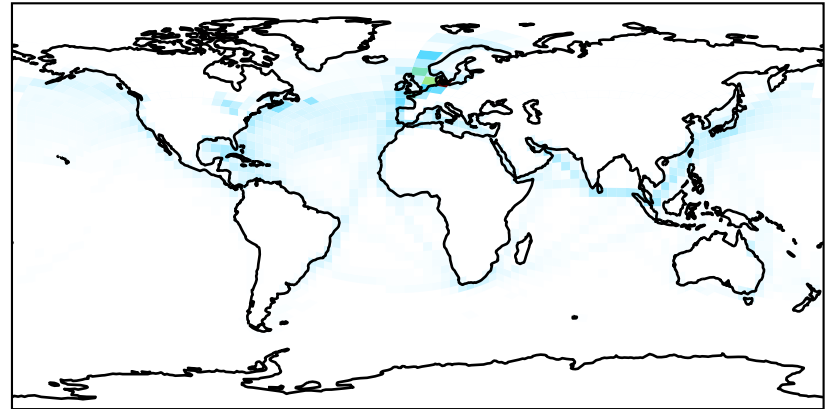


# EmisC2H4\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



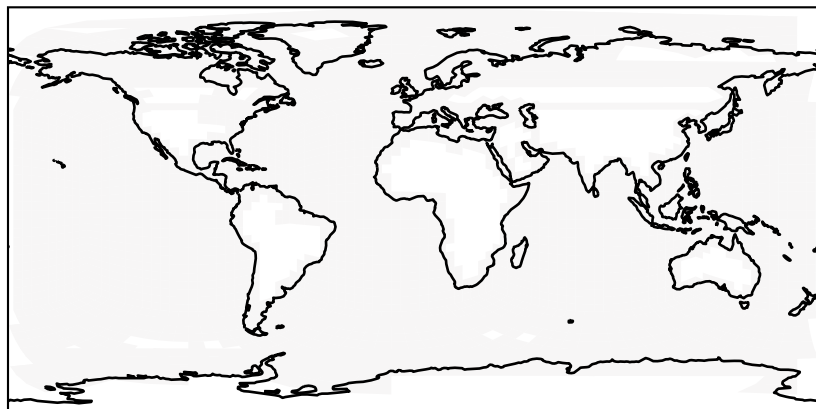
Difference  
Dev - Ref, Dynamic Range



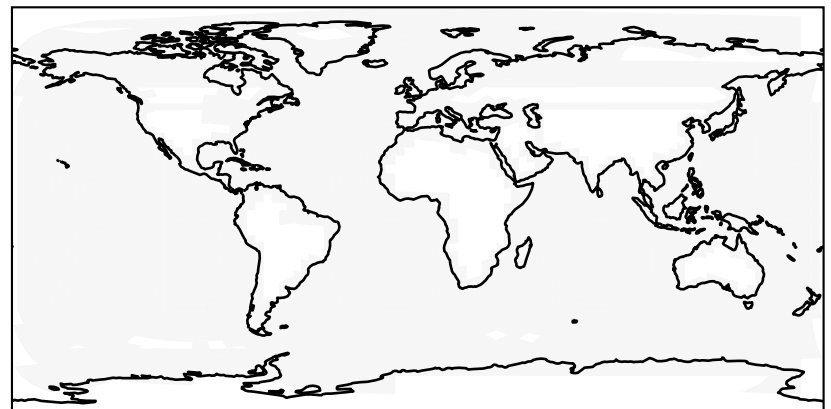
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



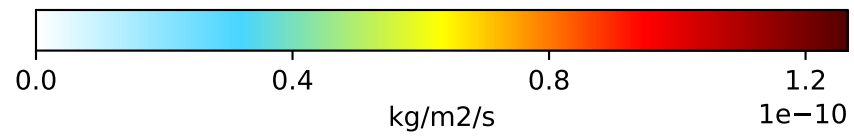
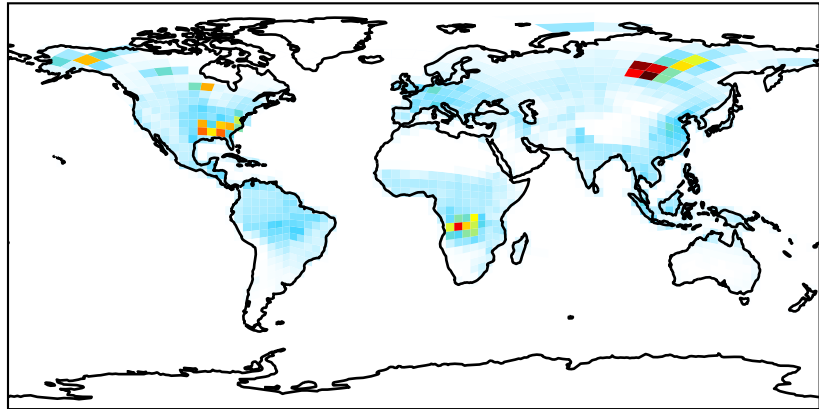
Ratio  
Dev/Ref, Fixed Range



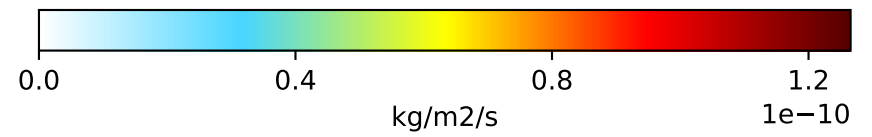
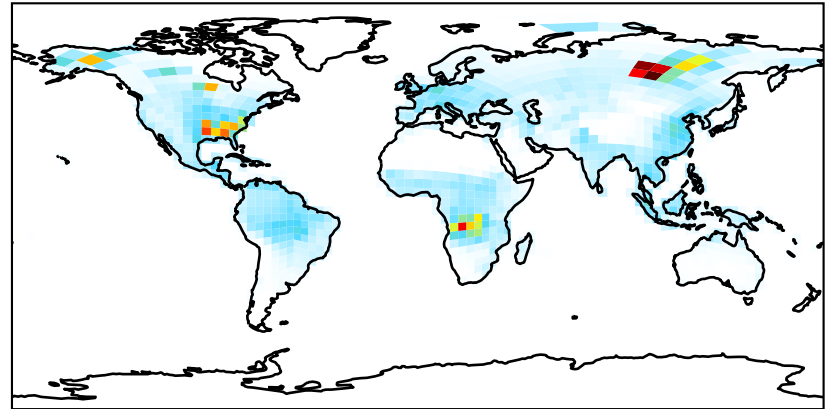


# EmisC2H4\_Total

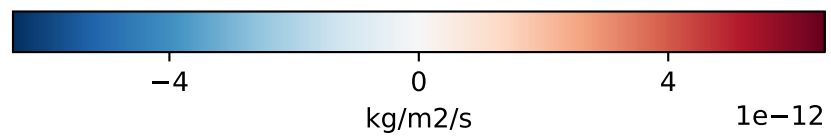
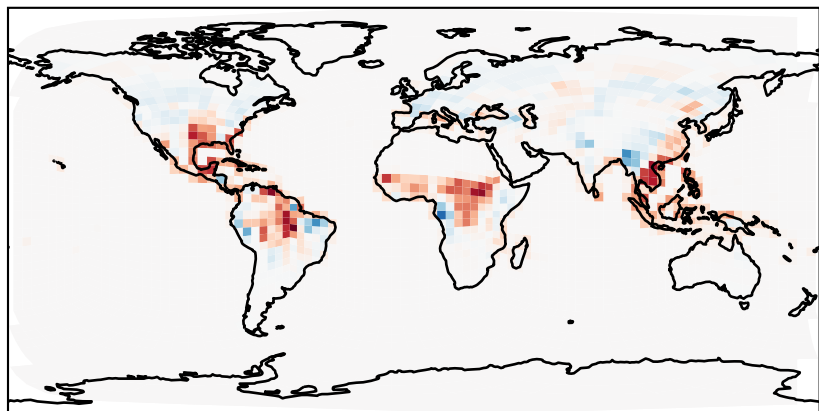
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



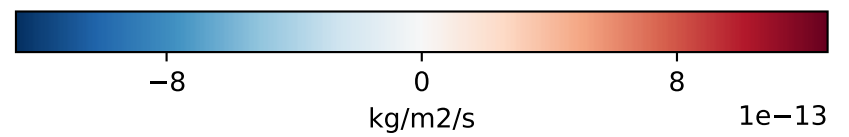
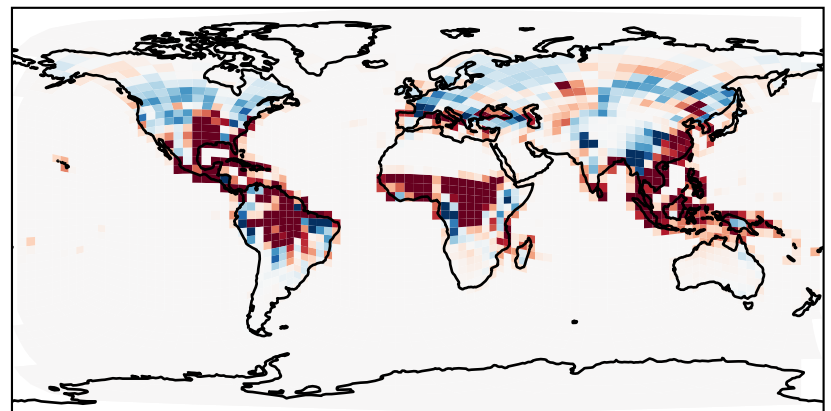
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



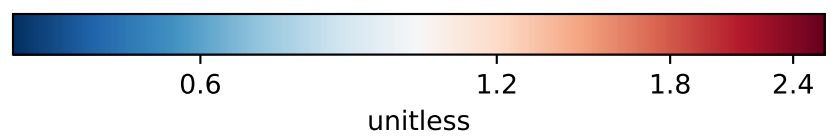
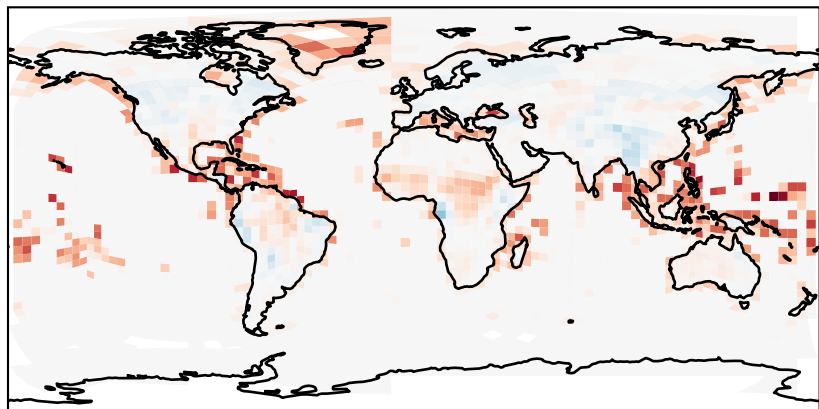
Difference  
Dev - Ref, Dynamic Range



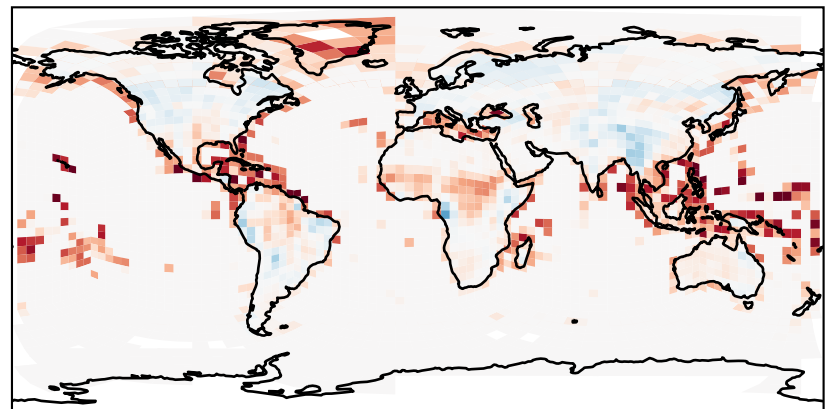
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

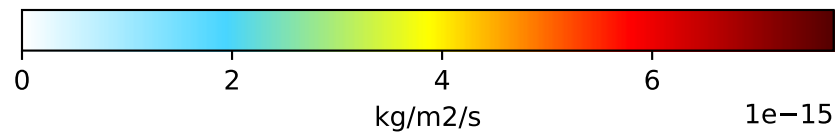
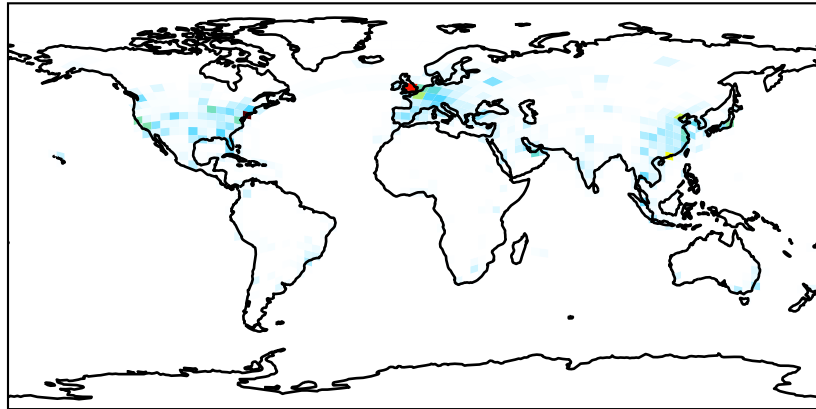


Ratio  
Dev/Ref, Fixed Range

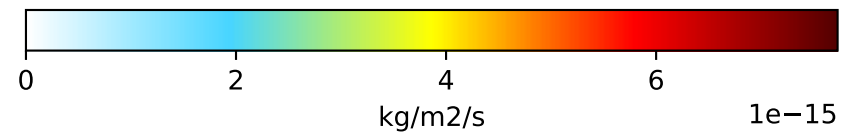
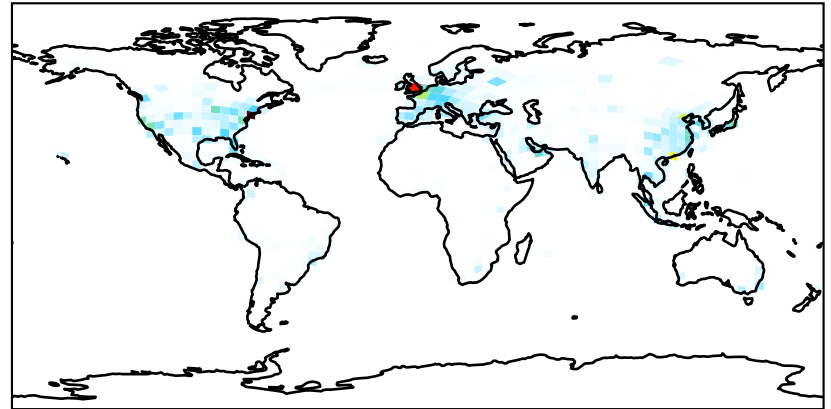


# EmisC2H6\_Aircraft

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



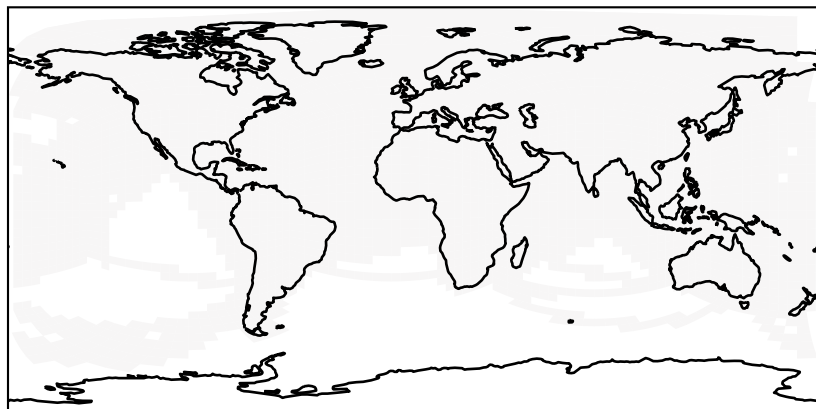
Difference  
Dev - Ref, Dynamic Range



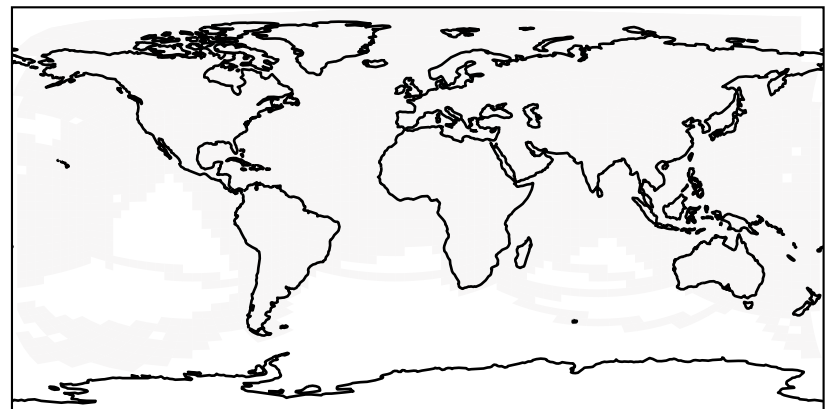
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

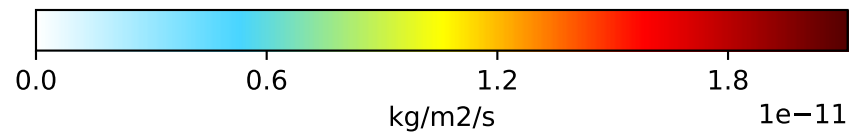
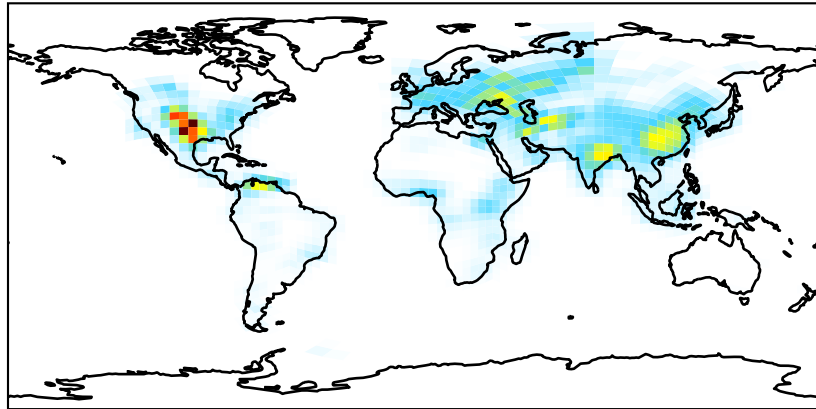


Ratio  
Dev/Ref, Fixed Range

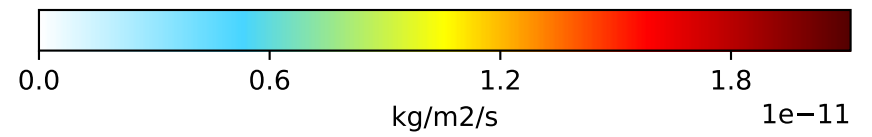
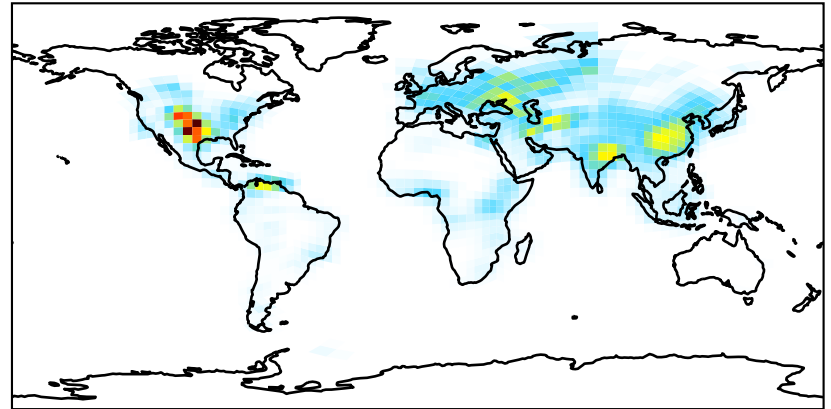


# EmisC2H6\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

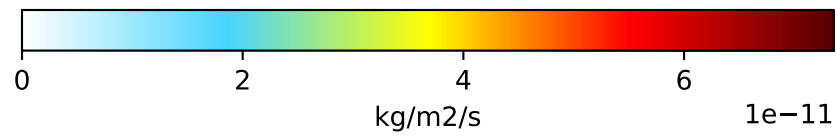
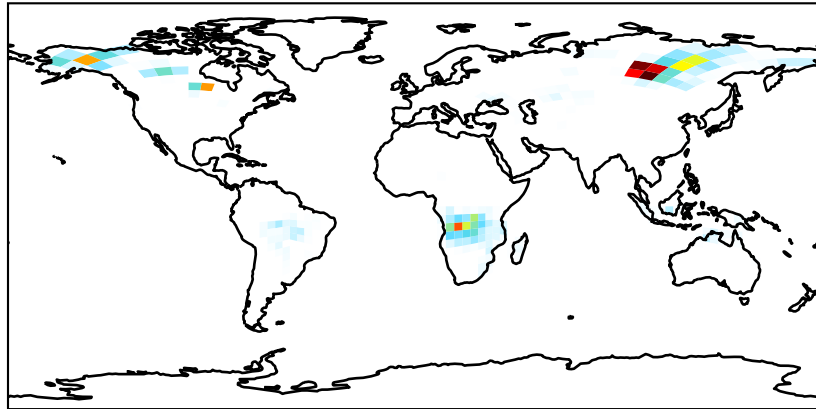


Ratio  
Dev/Ref, Fixed Range

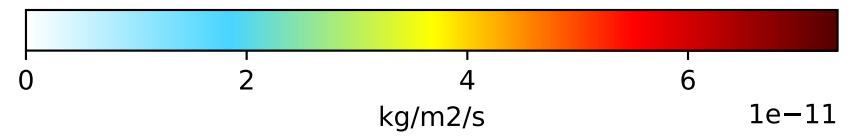
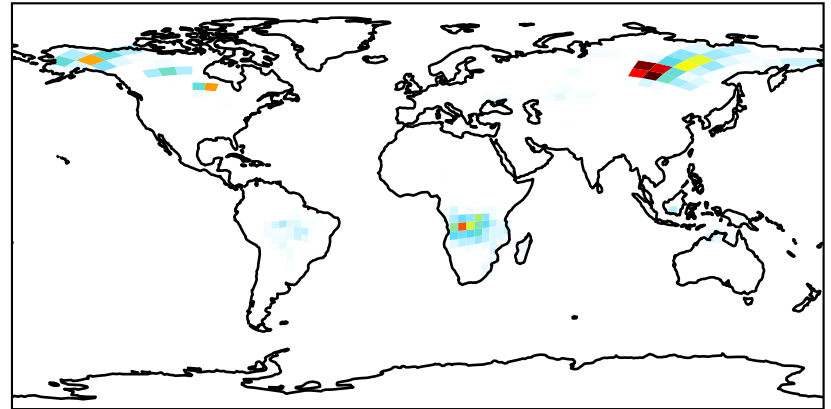


# EmisC2H6\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



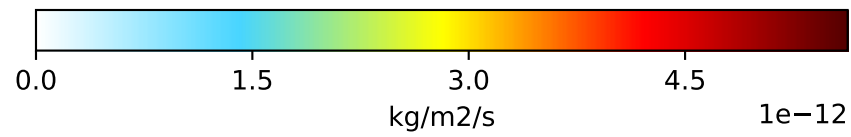
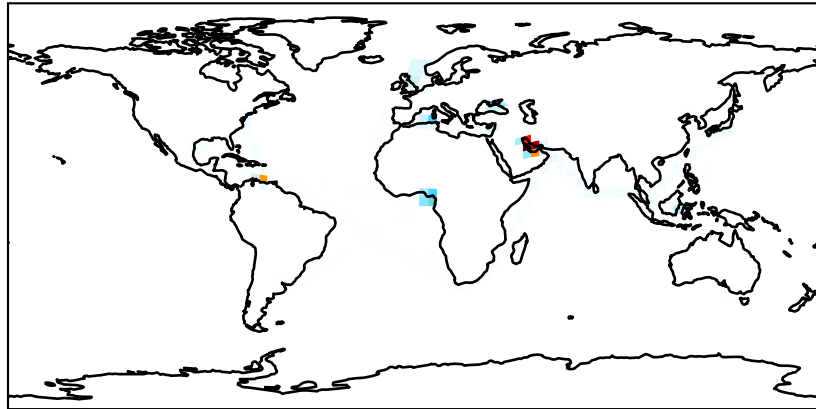
Ratio  
Dev/Ref, Fixed Range



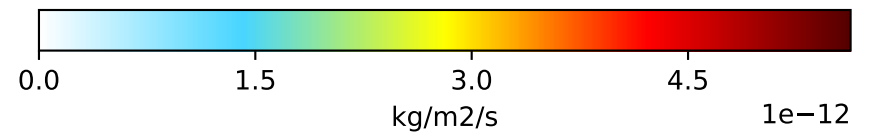
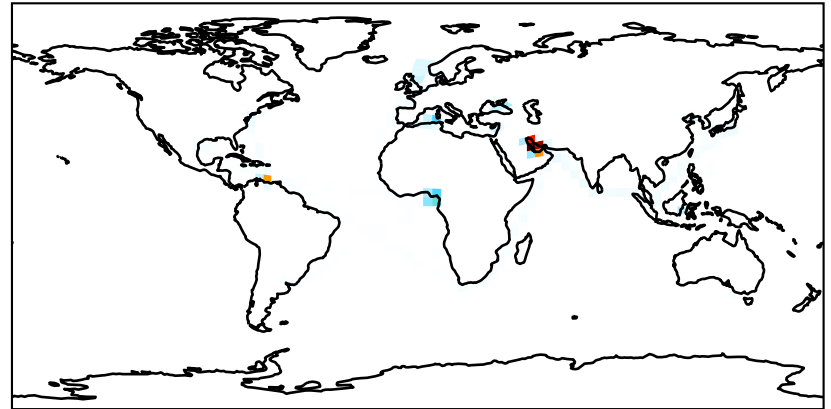


# EmisC2H6\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



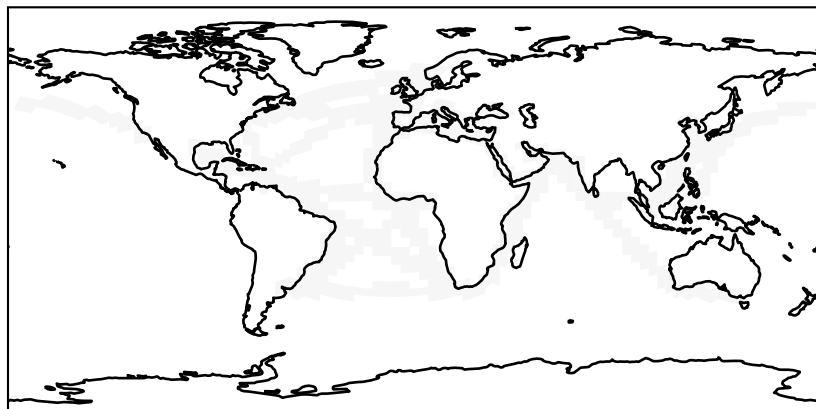
Difference  
Dev - Ref, Dynamic Range



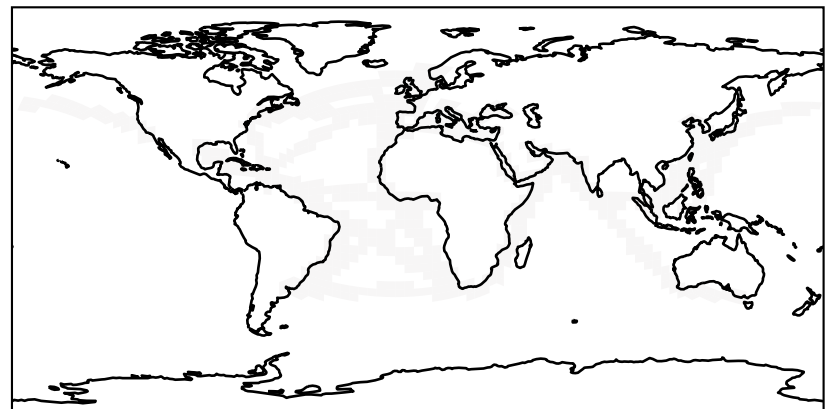
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

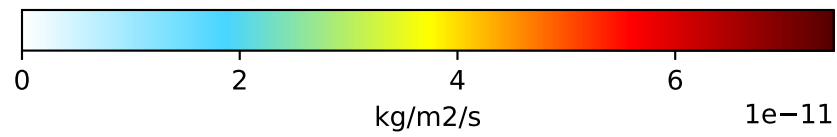
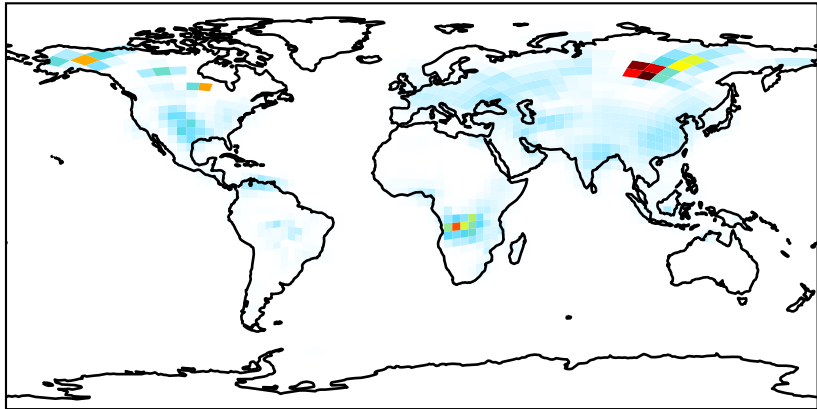


Ratio  
Dev/Ref, Fixed Range

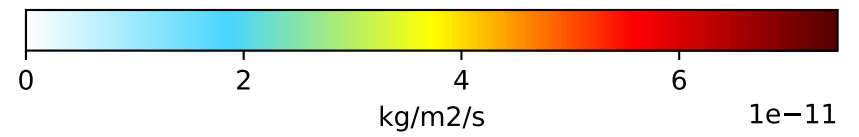
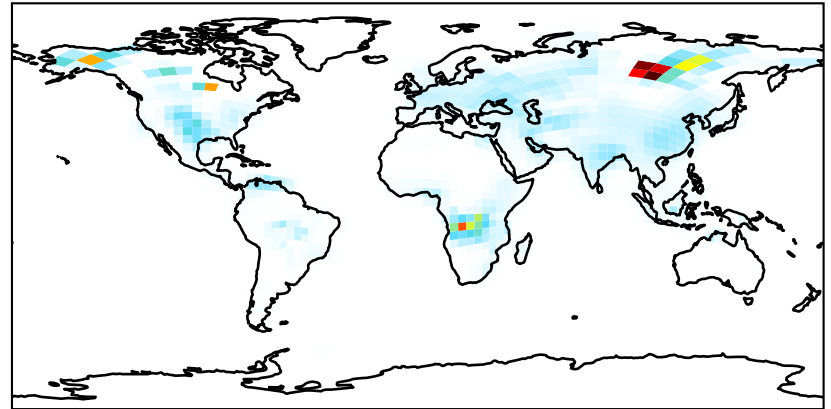


# EmisC2H6\_Total

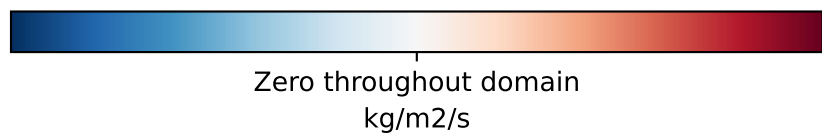
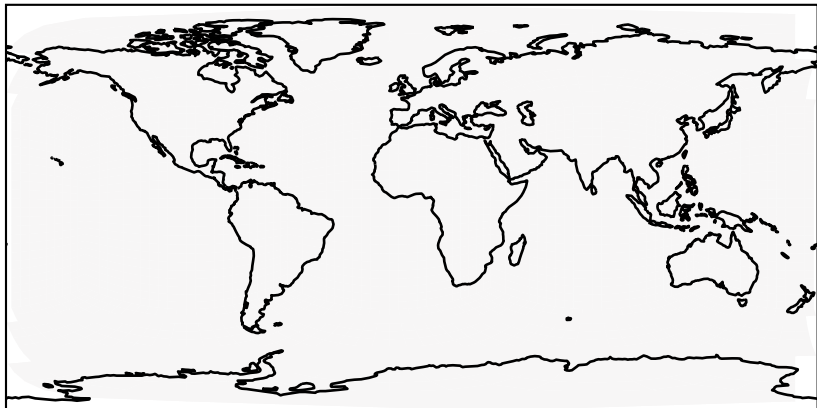
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



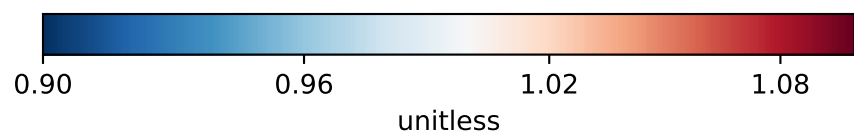
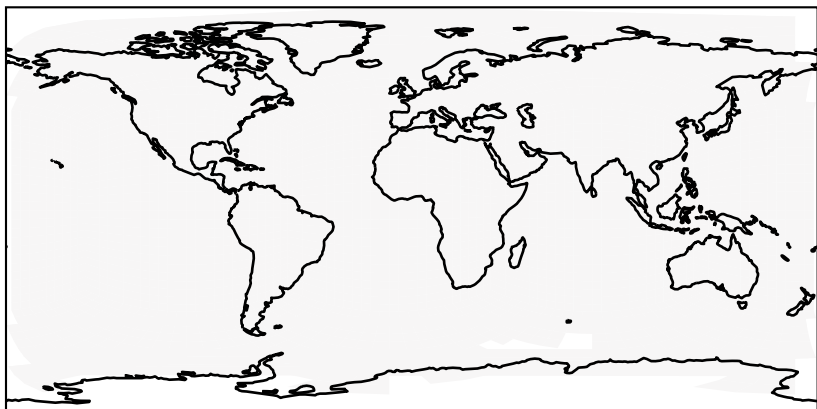
Difference  
Dev - Ref, Dynamic Range



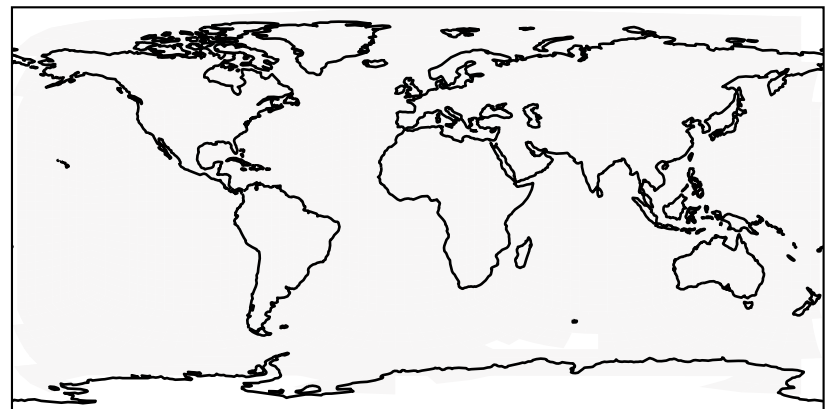
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

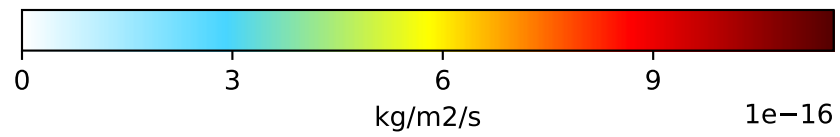
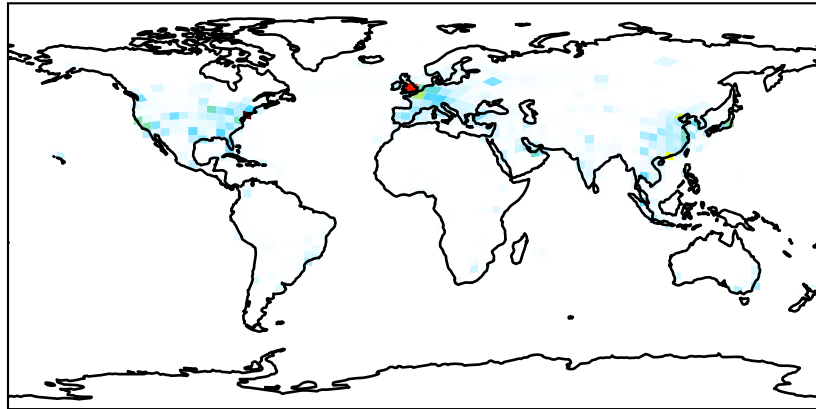


Ratio  
Dev/Ref, Fixed Range

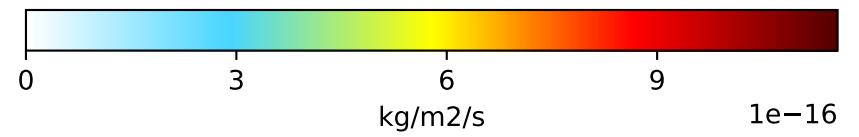
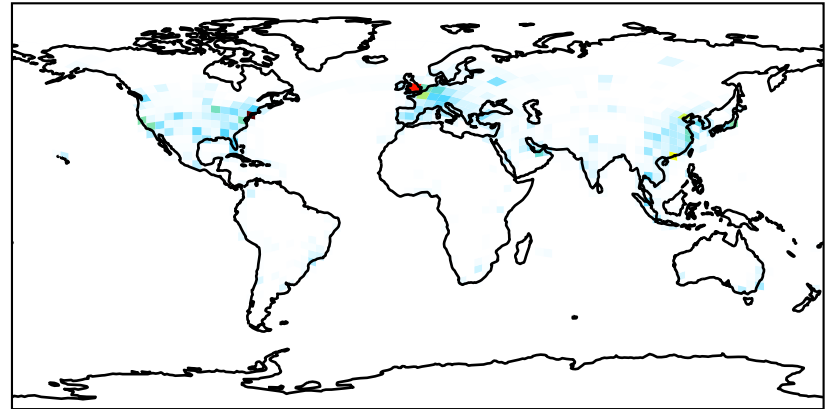


# EmisC3H8\_Aircraft

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



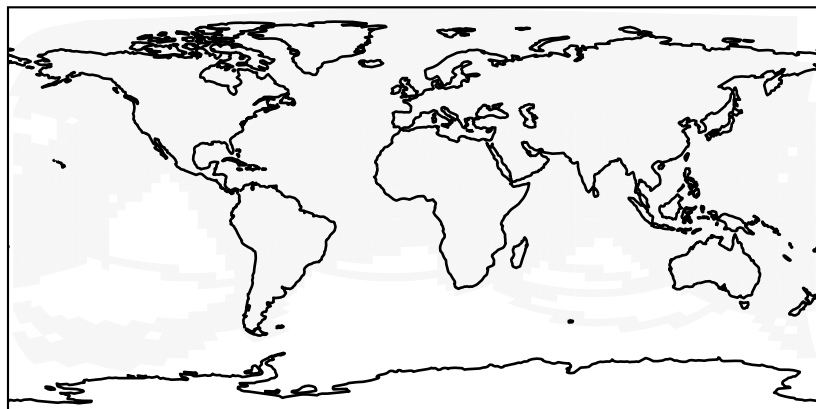
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

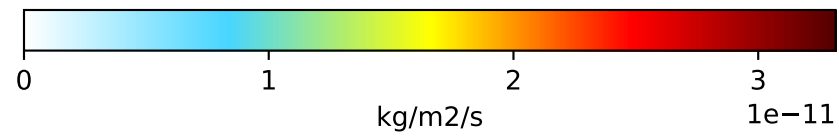
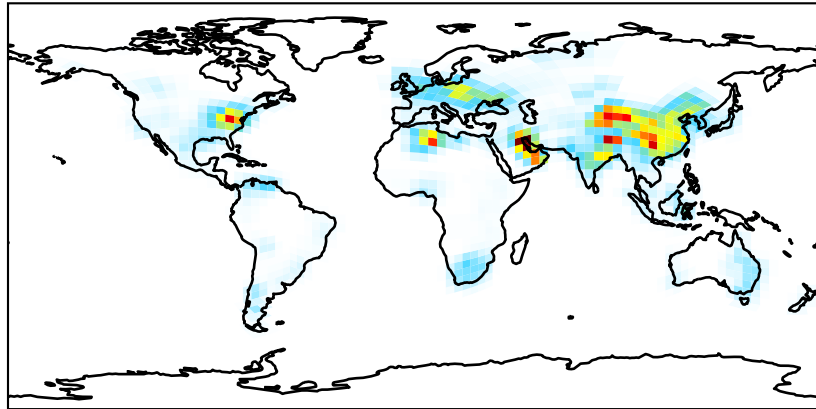


Ratio  
Dev/Ref, Fixed Range

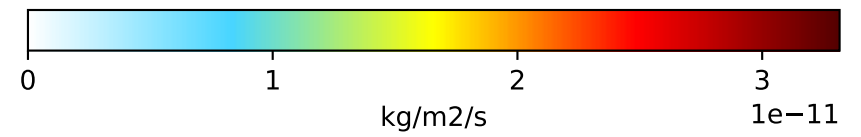
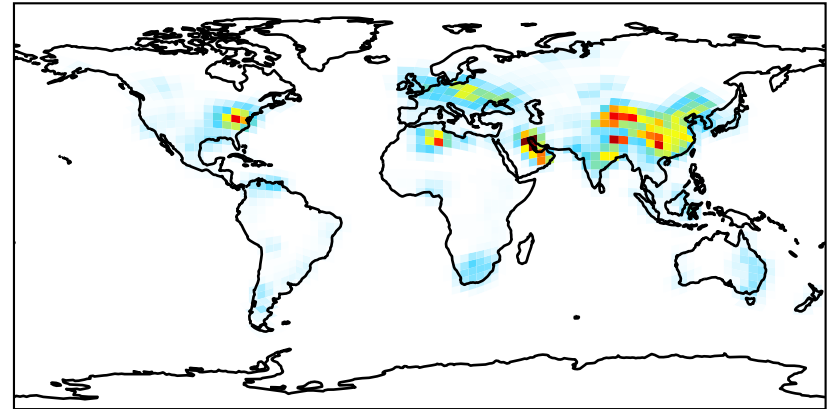


# EmisC3H8\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



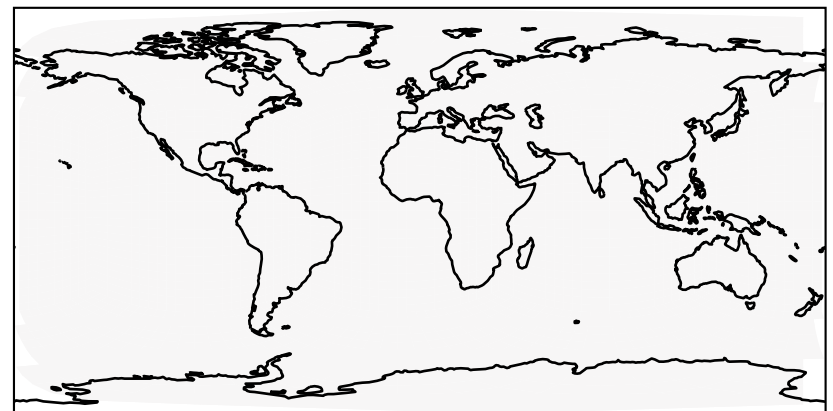
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



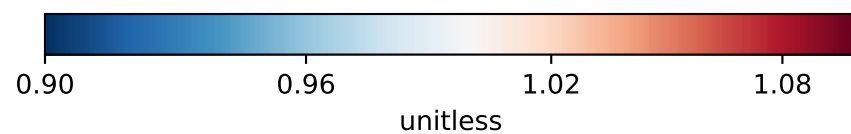
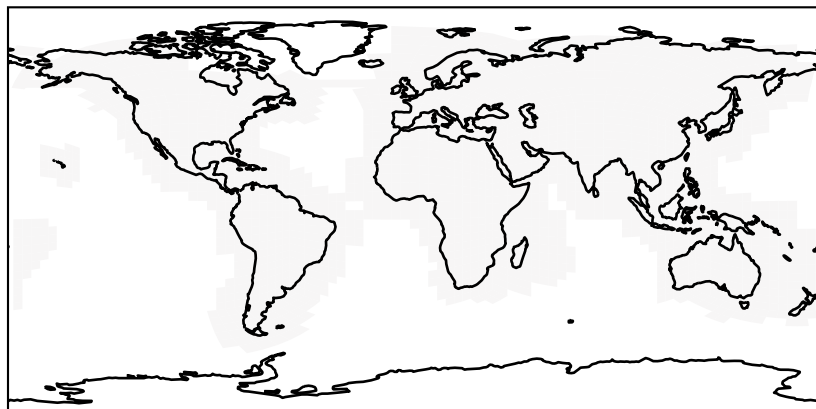
Difference  
Dev - Ref, Dynamic Range



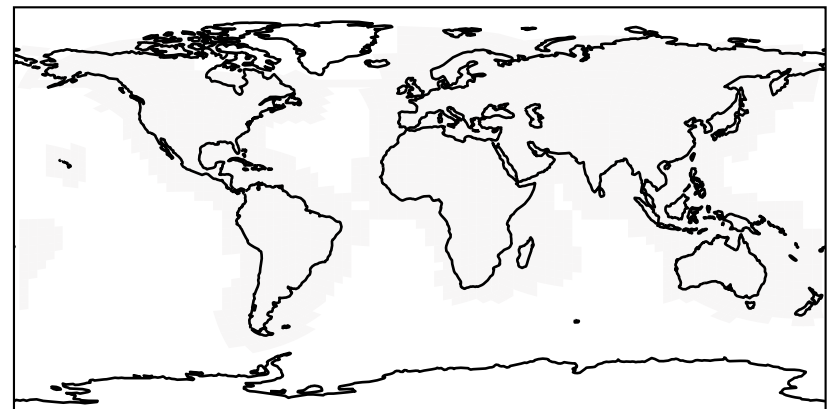
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



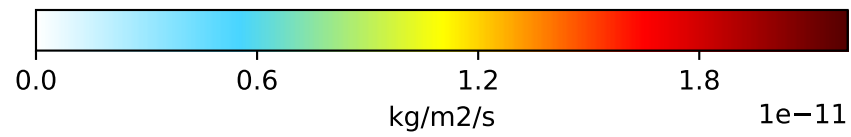
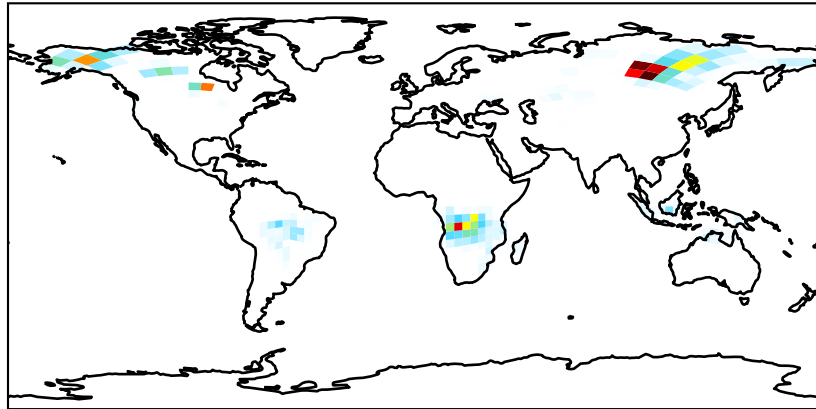
Ratio  
Dev/Ref, Fixed Range



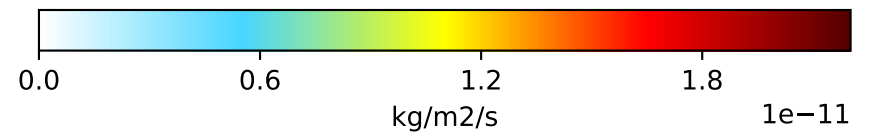
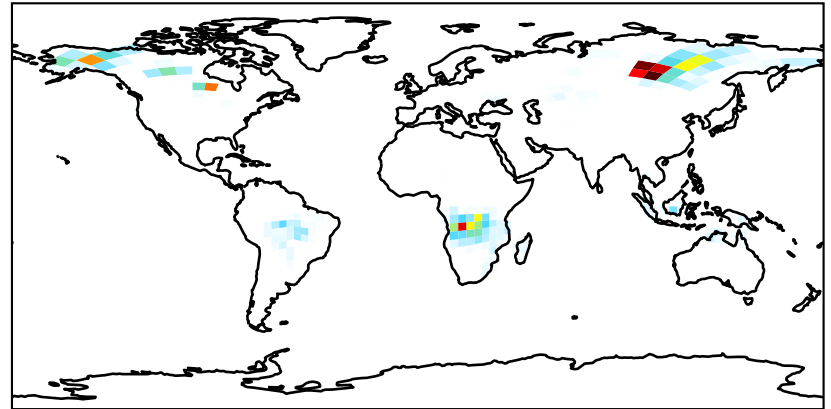


# EmisC3H8\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



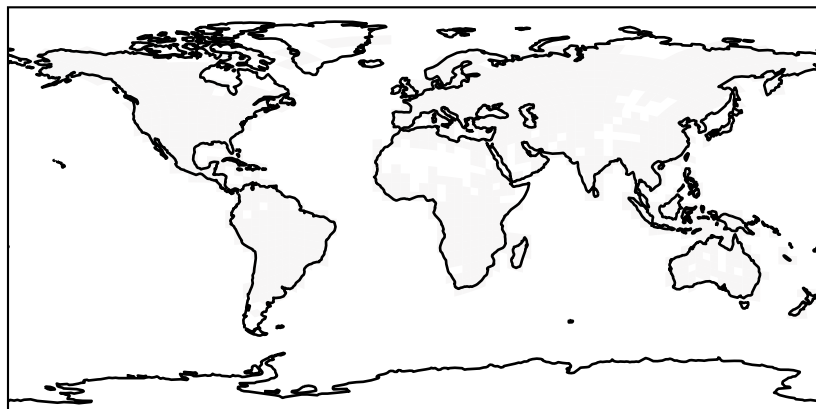
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

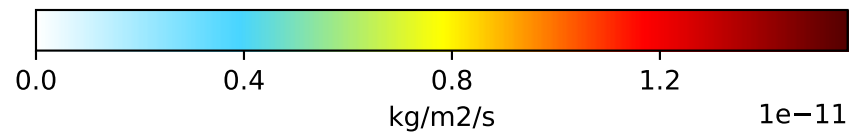
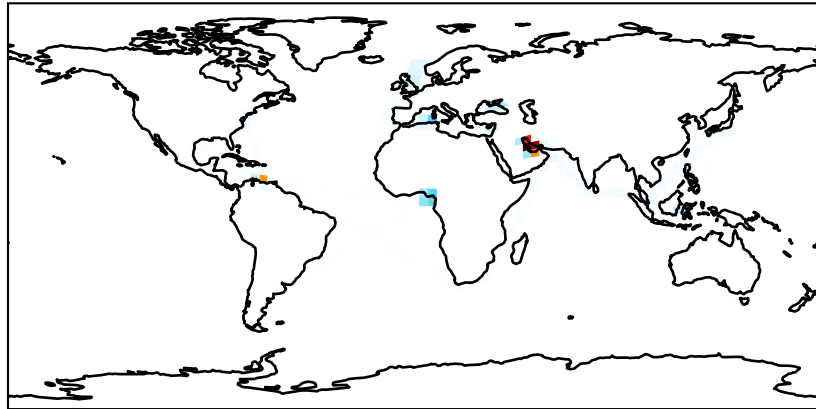


Ratio  
Dev/Ref, Fixed Range

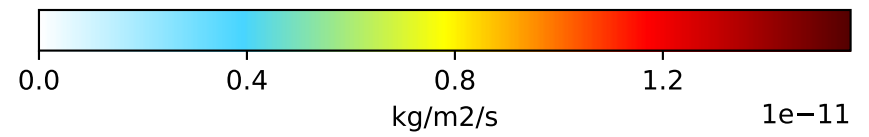
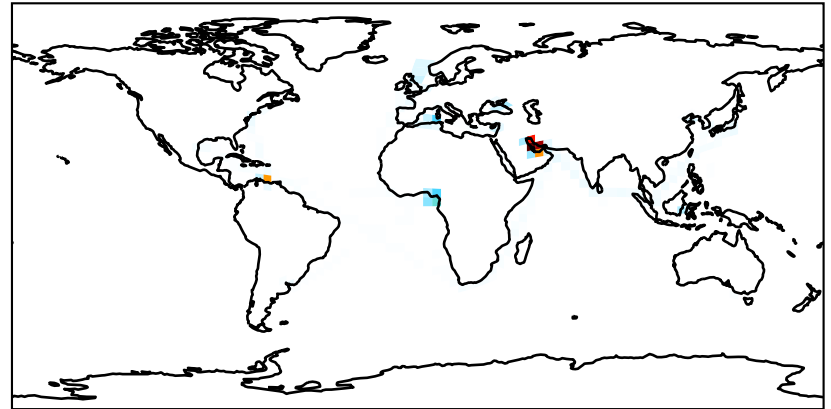


# EmisC3H8\_Ship

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



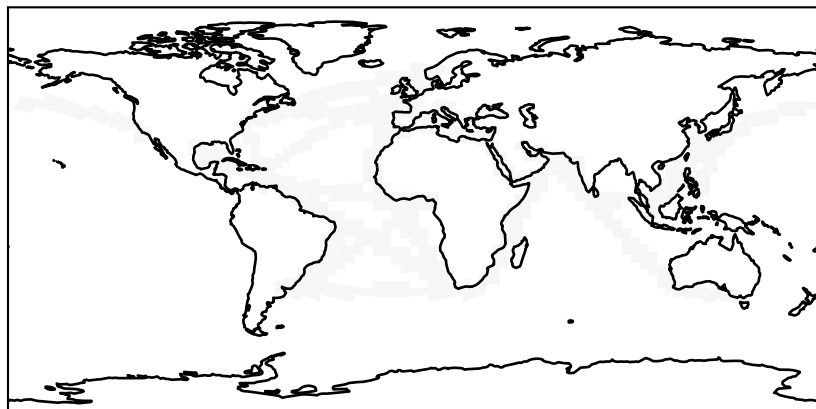
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

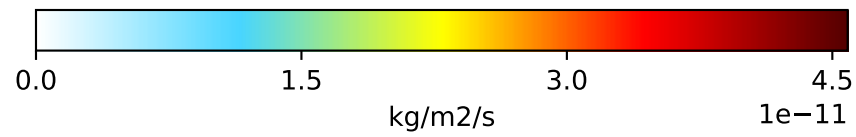
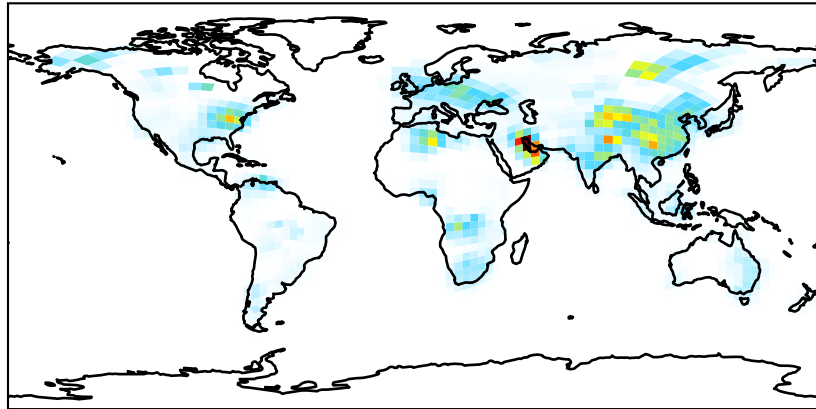


Ratio  
Dev/Ref, Fixed Range

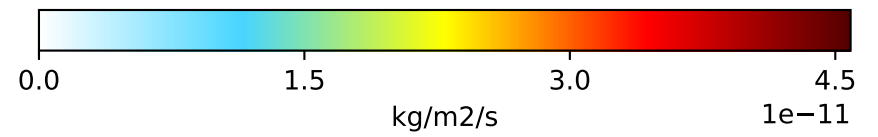
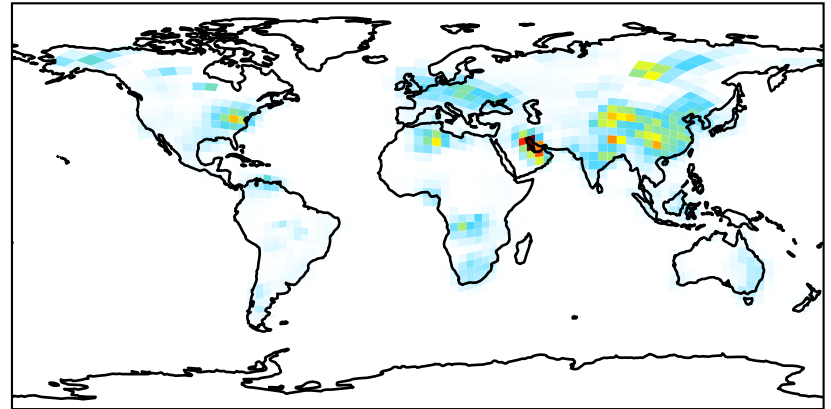


# EmisC3H8\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



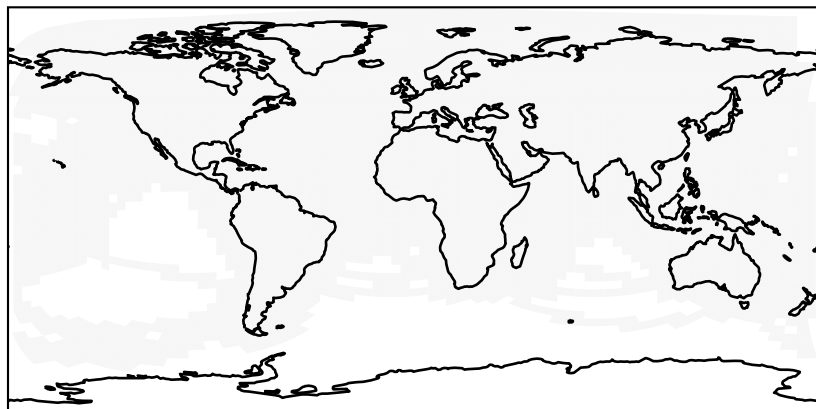
Difference  
Dev - Ref, Dynamic Range



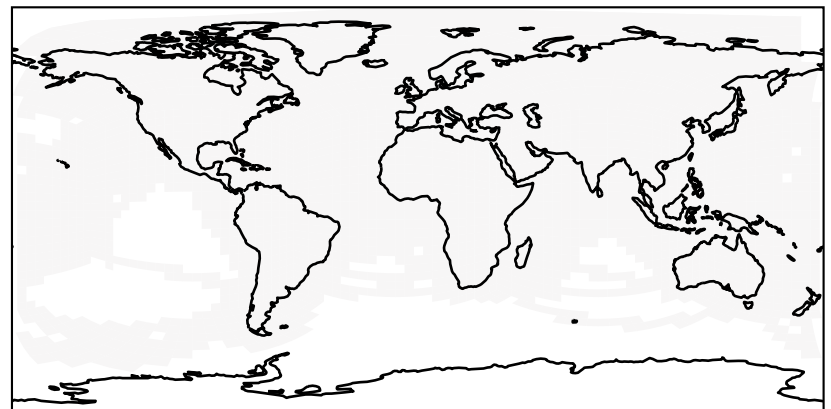
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

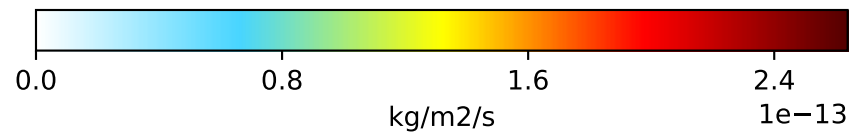
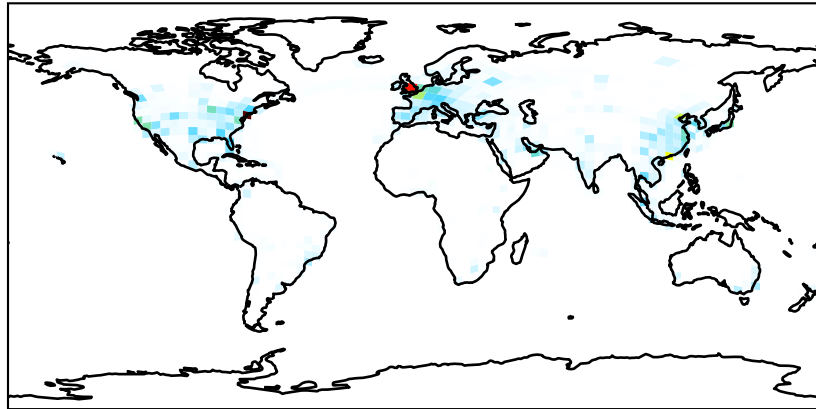


Ratio  
Dev/Ref, Fixed Range

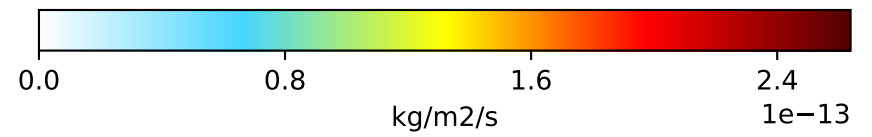
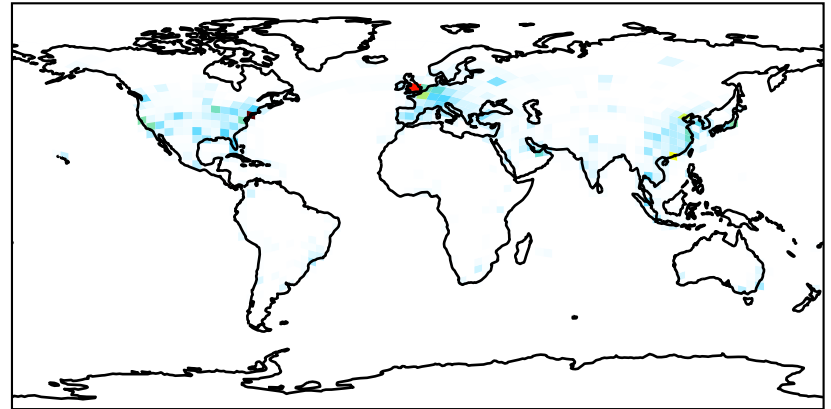


# EmisPRPE\_Aircraft

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



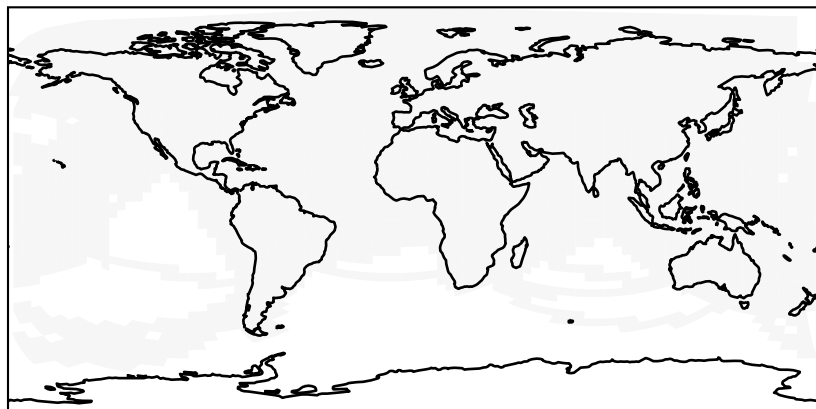
Difference  
Dev - Ref, Dynamic Range



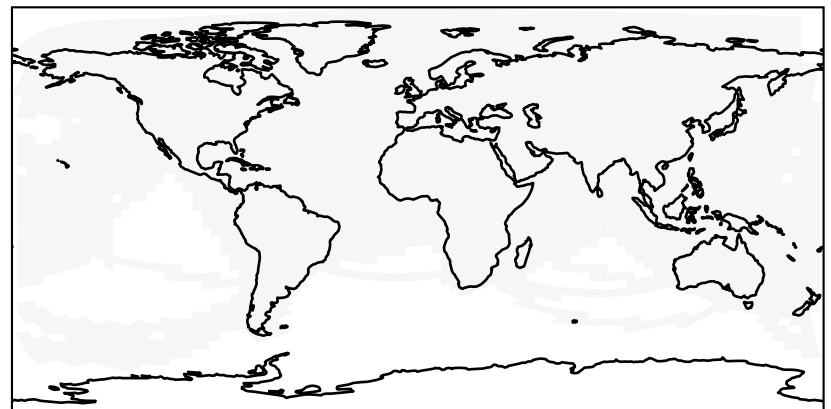
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



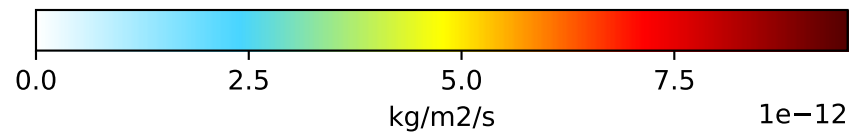
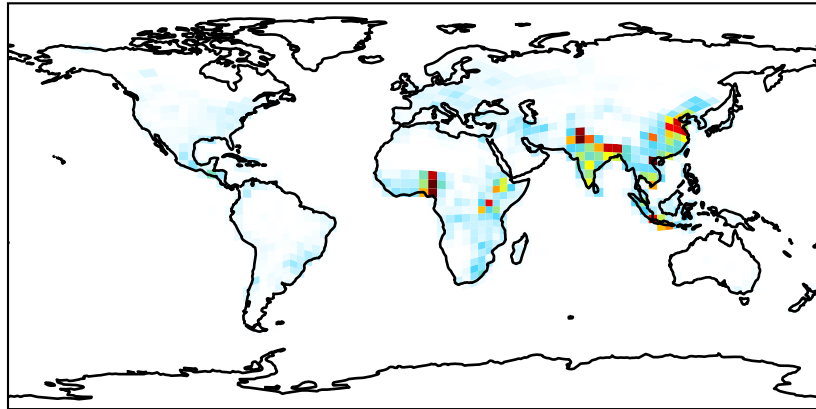
Ratio  
Dev/Ref, Fixed Range



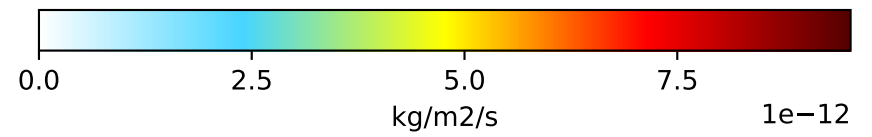
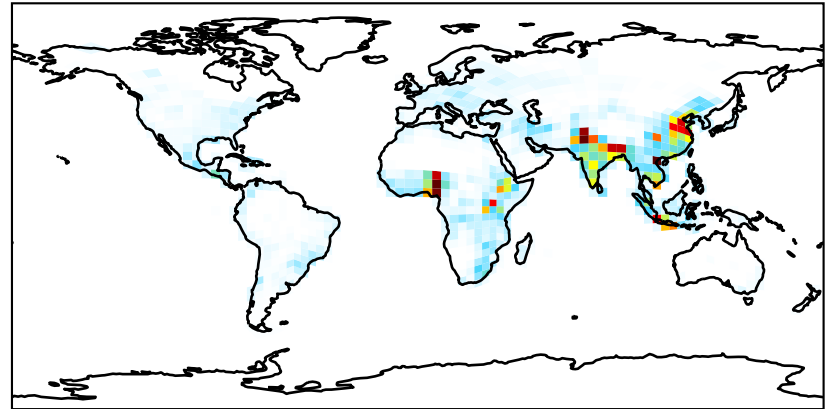


# EmisPRPE\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



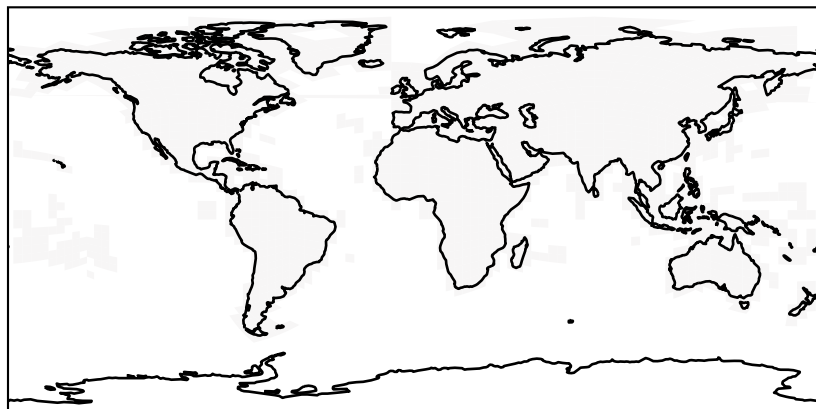
Difference  
Dev - Ref, Dynamic Range



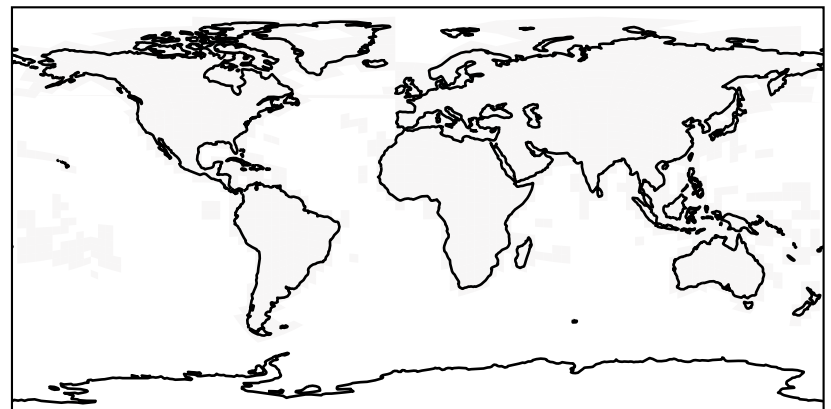
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

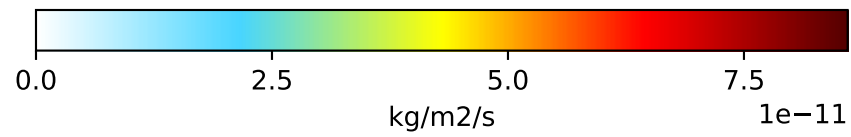
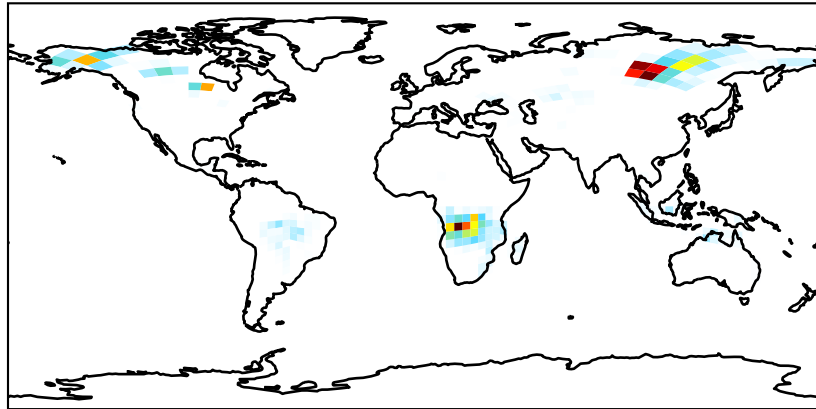


Ratio  
Dev/Ref, Fixed Range

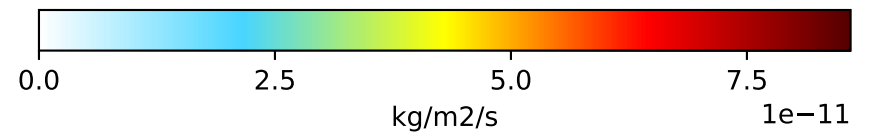
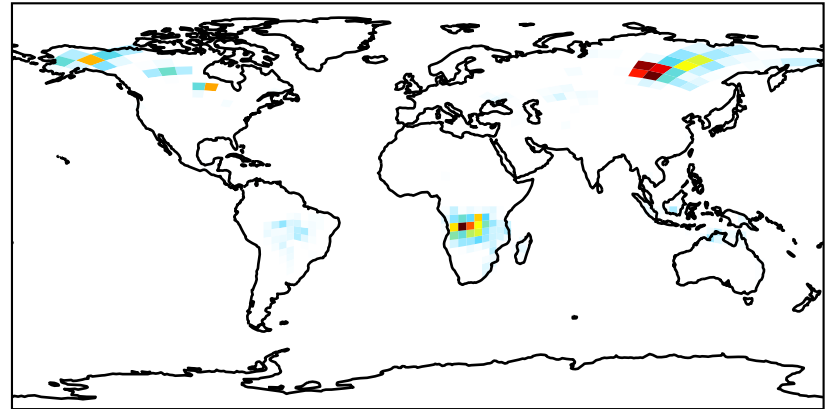


# EmisPRPE\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



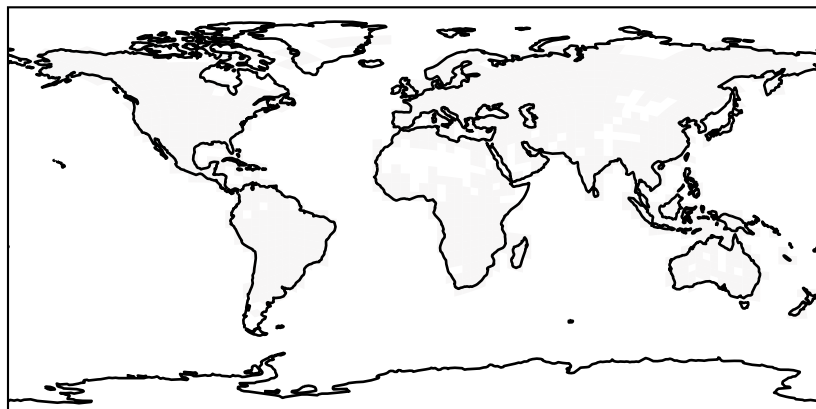
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

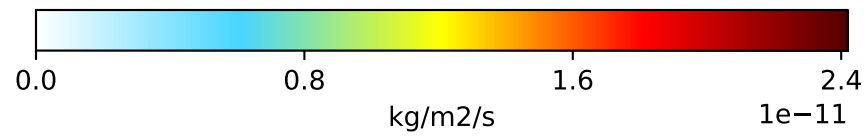
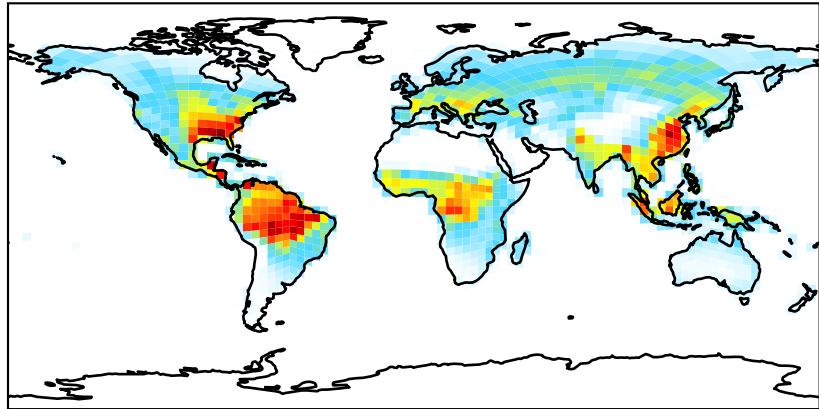


Ratio  
Dev/Ref, Fixed Range

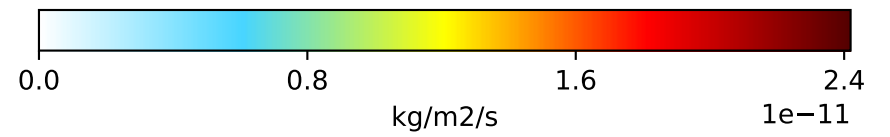
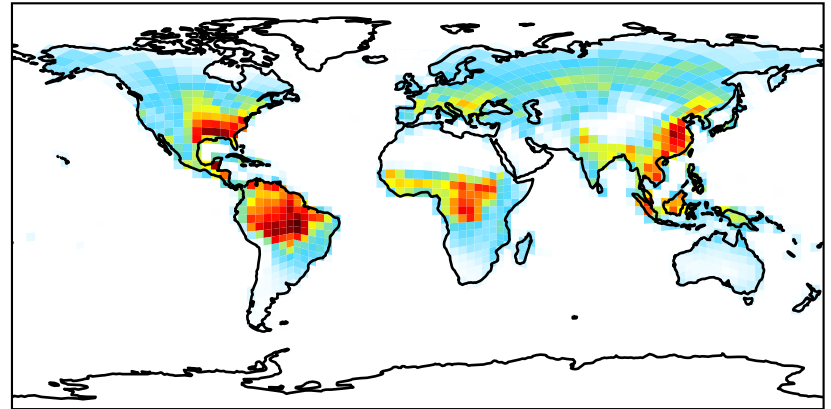


# EmisPRPE\_Biogenic

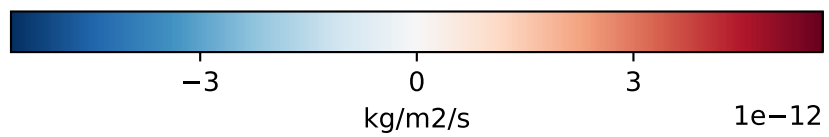
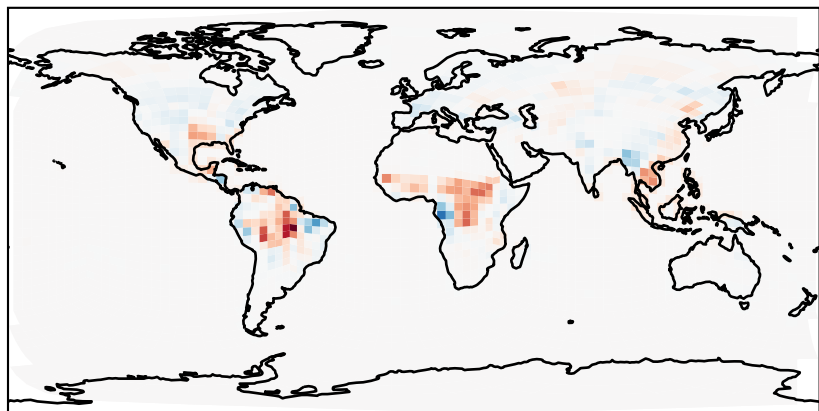
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



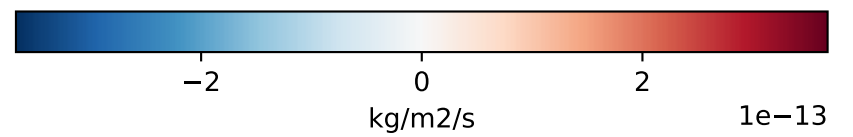
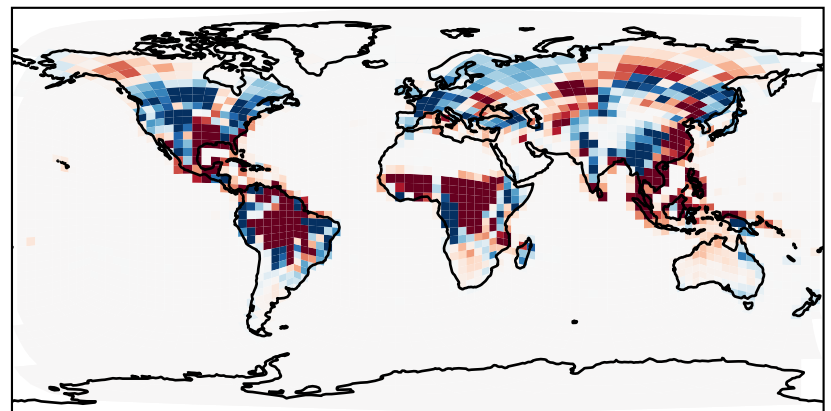
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



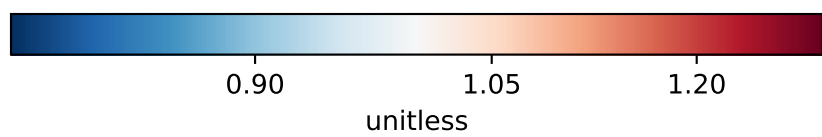
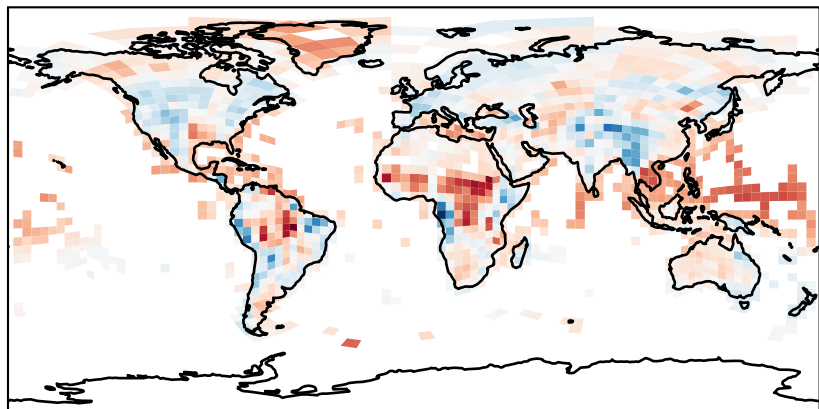
Difference  
Dev - Ref, Dynamic Range



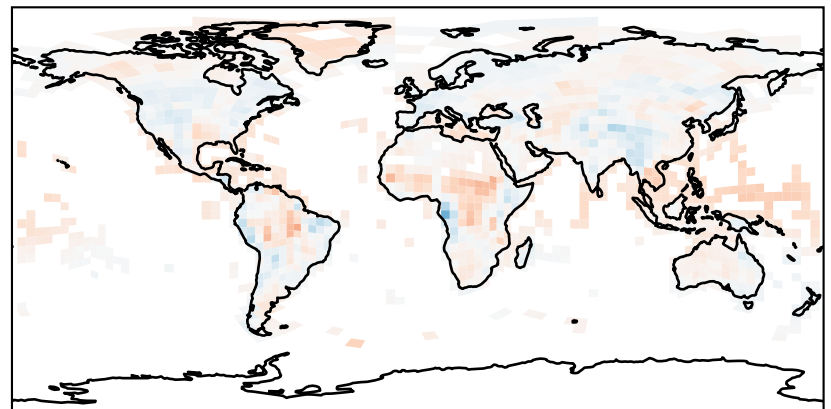
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

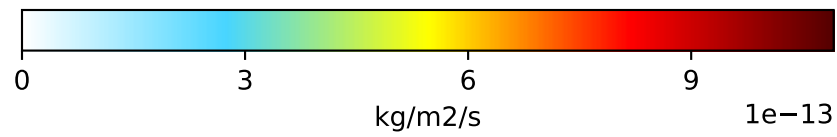
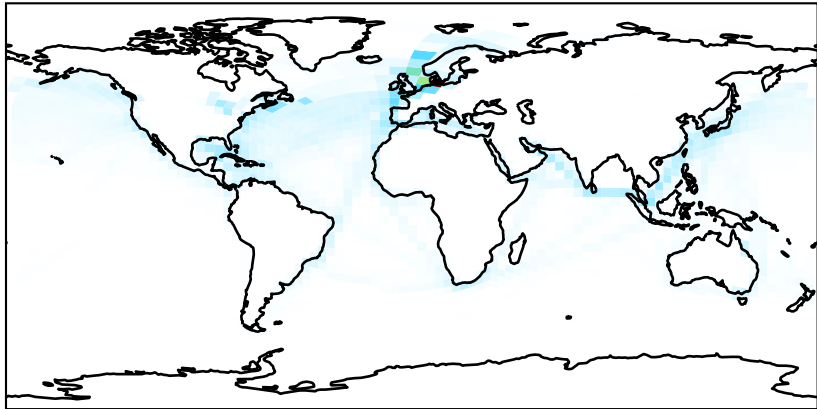


Ratio  
Dev/Ref, Fixed Range

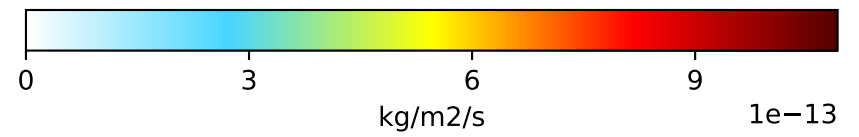
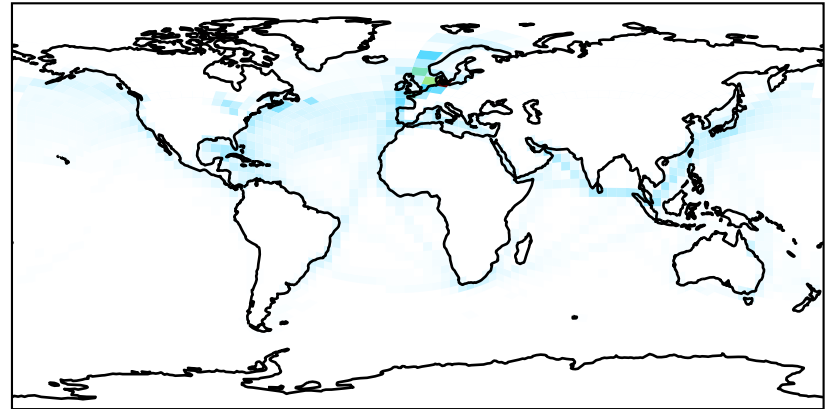


# EmisPRPE\_Ship

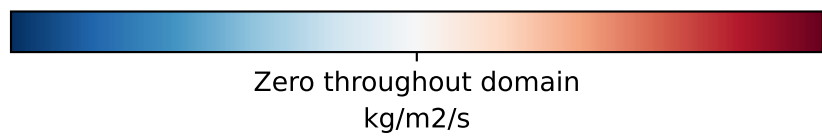
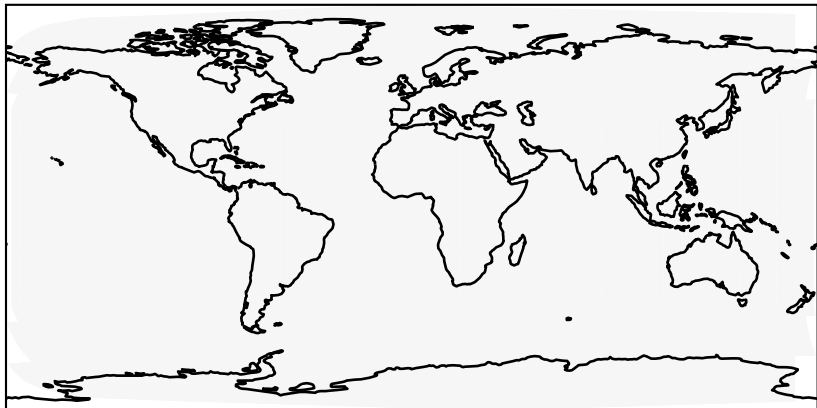
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



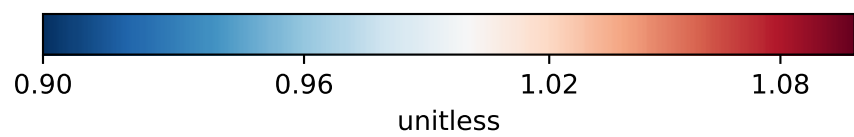
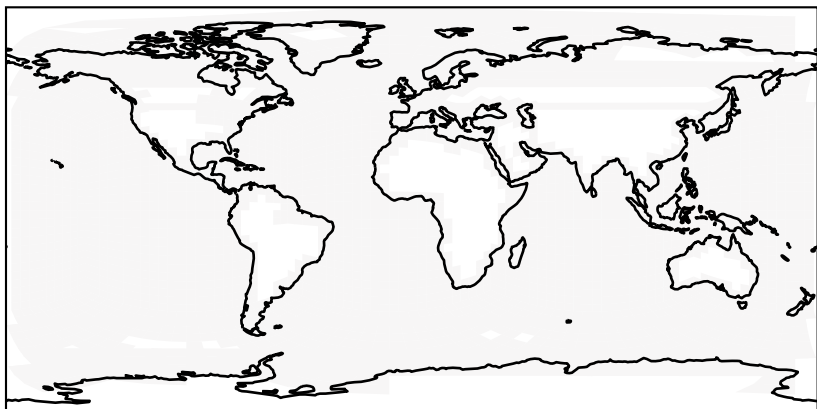
Difference  
Dev - Ref, Dynamic Range



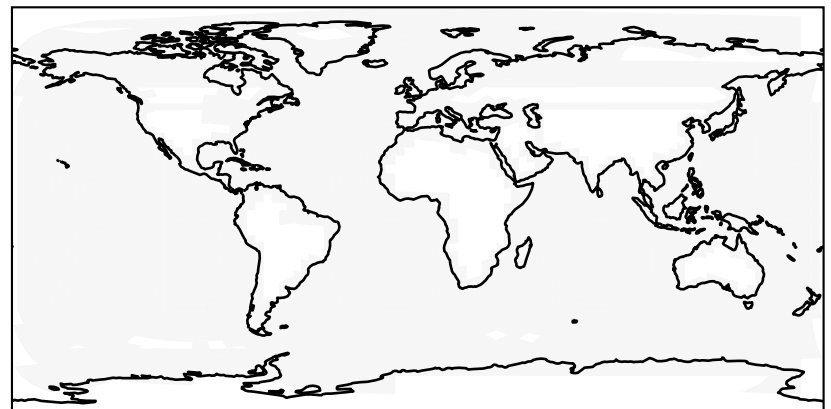
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



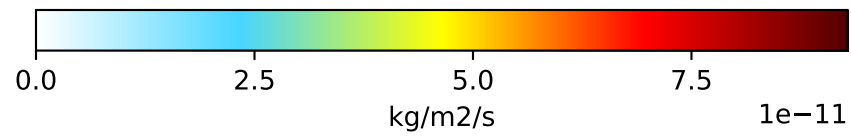
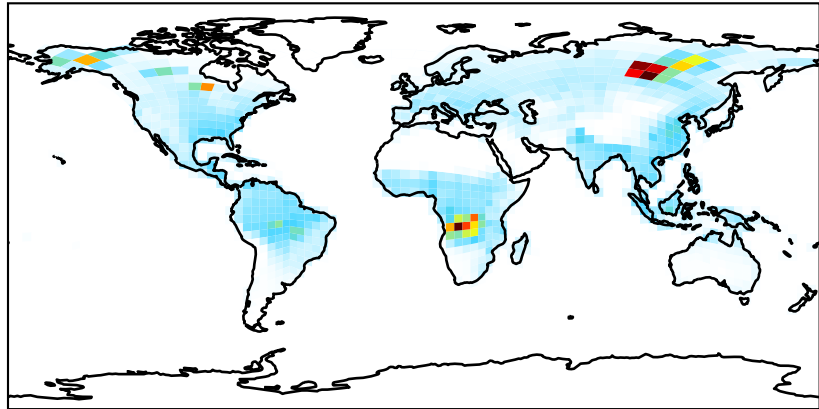
Ratio  
Dev/Ref, Fixed Range



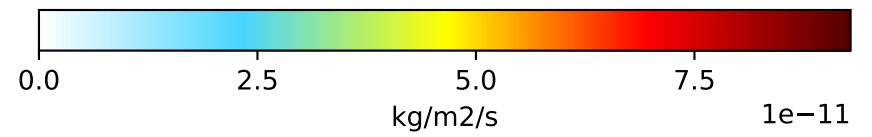
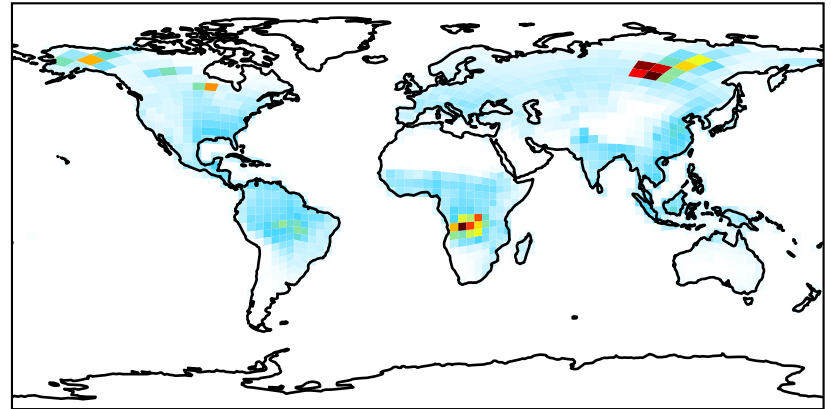


# EmisPRPE\_Total

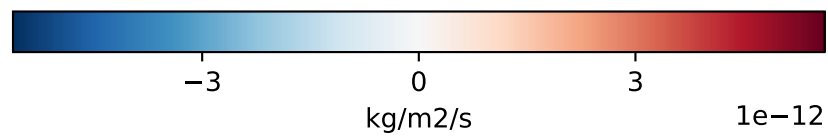
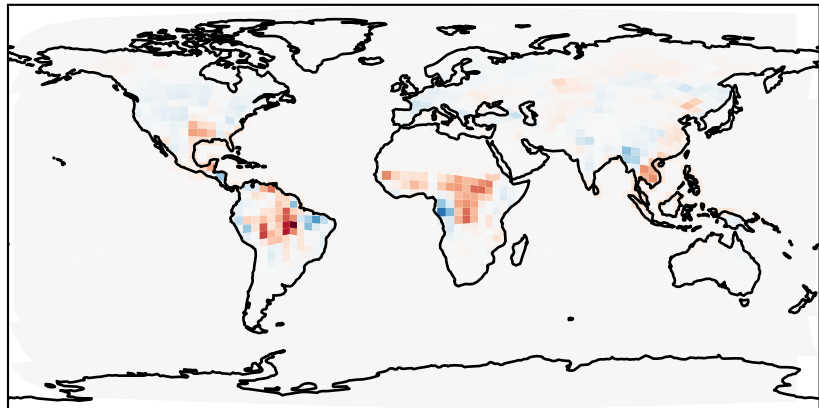
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



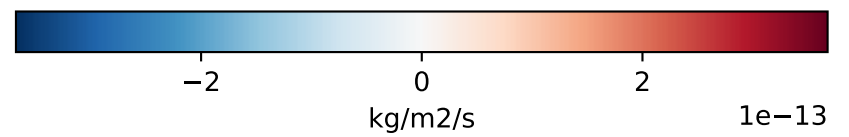
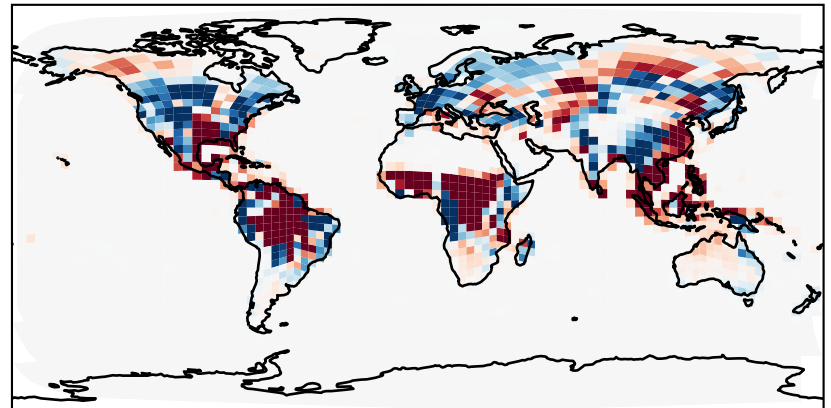
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



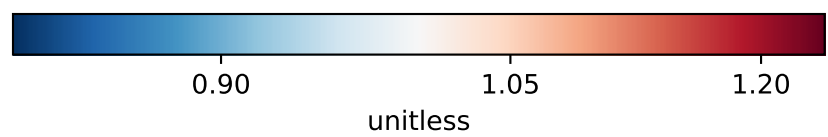
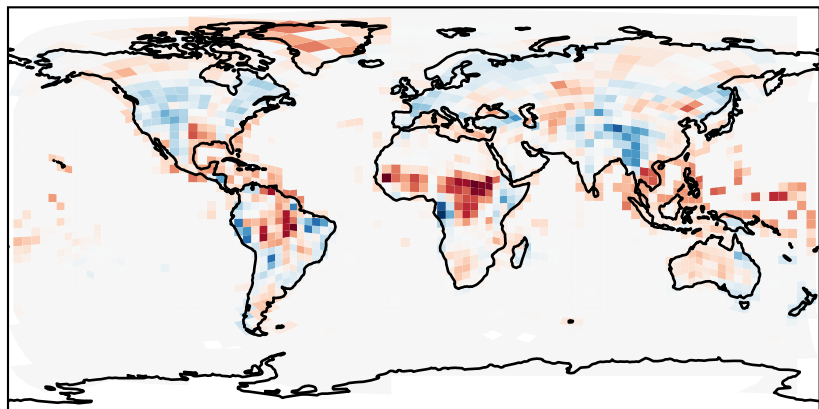
Difference  
Dev - Ref, Dynamic Range



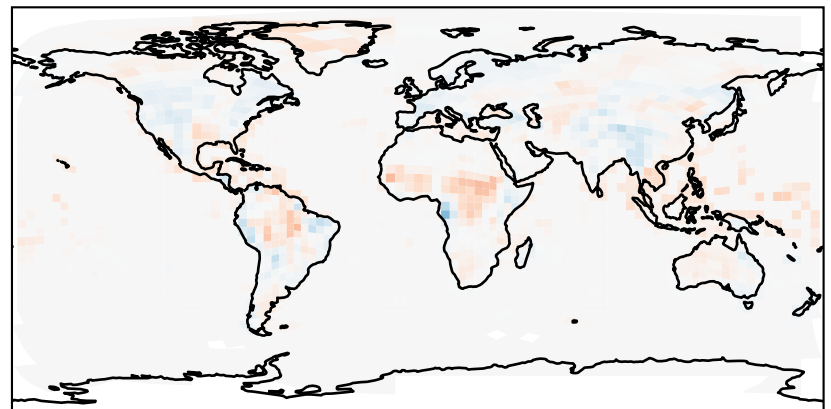
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

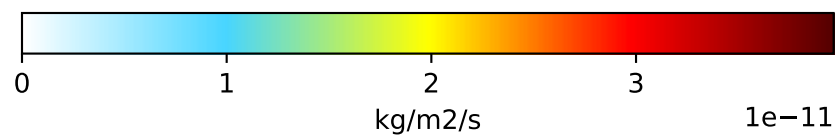
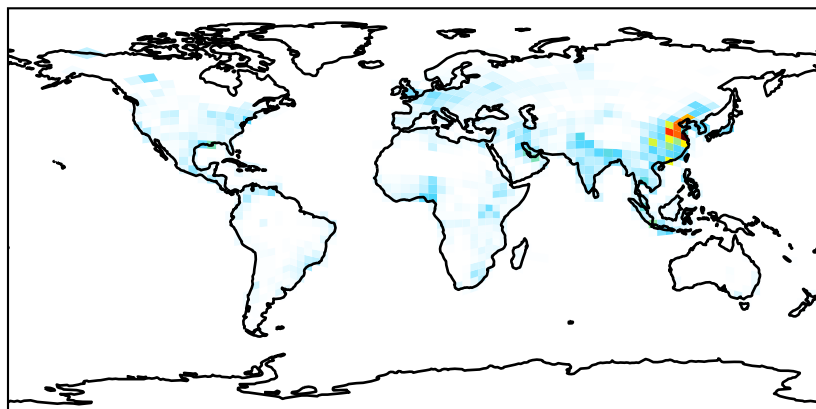


Ratio  
Dev/Ref, Fixed Range

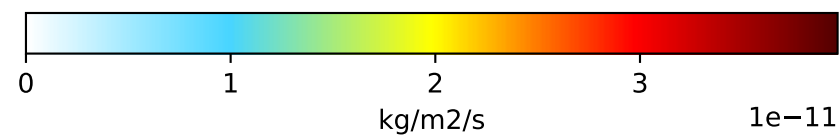
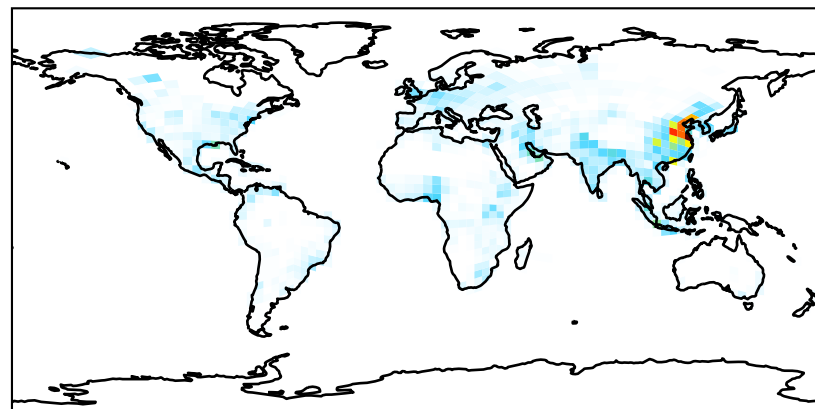


# EmisTOLU\_Anthro

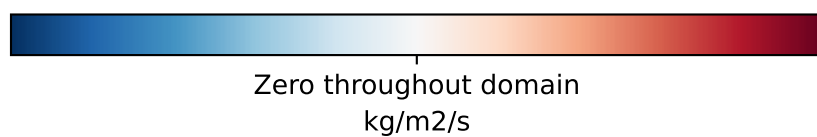
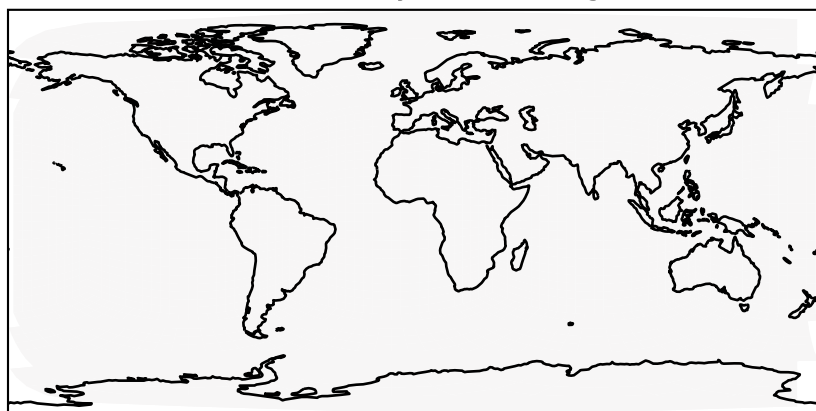
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



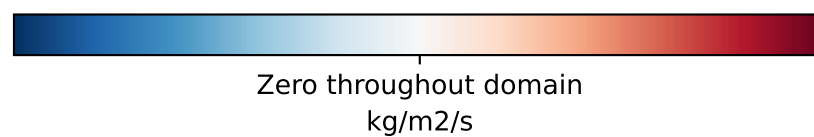
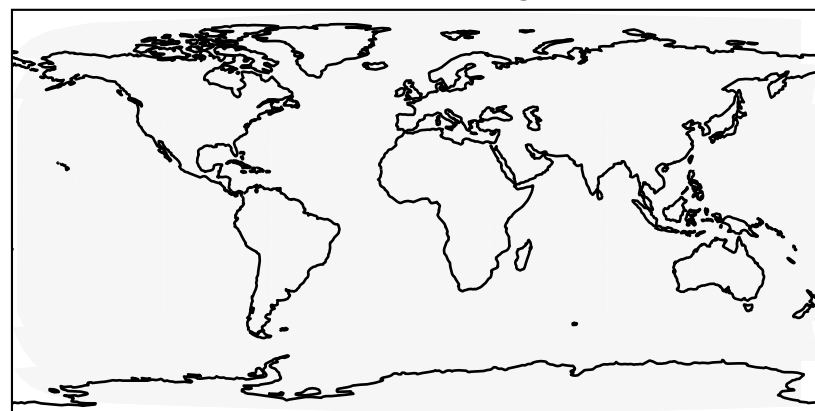
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



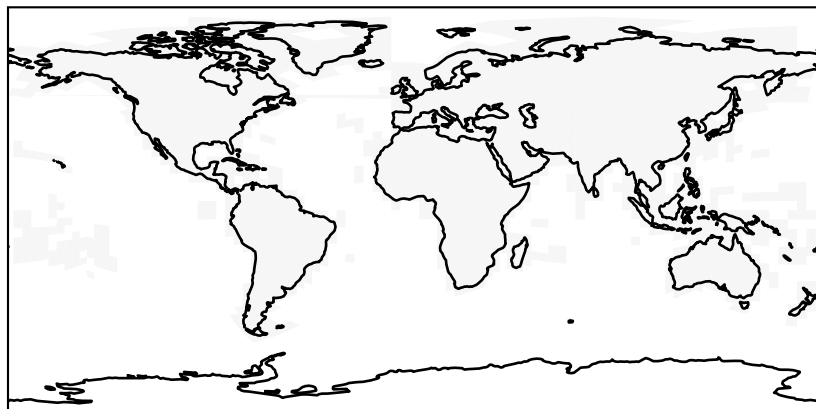
Difference  
Dev - Ref, Dynamic Range



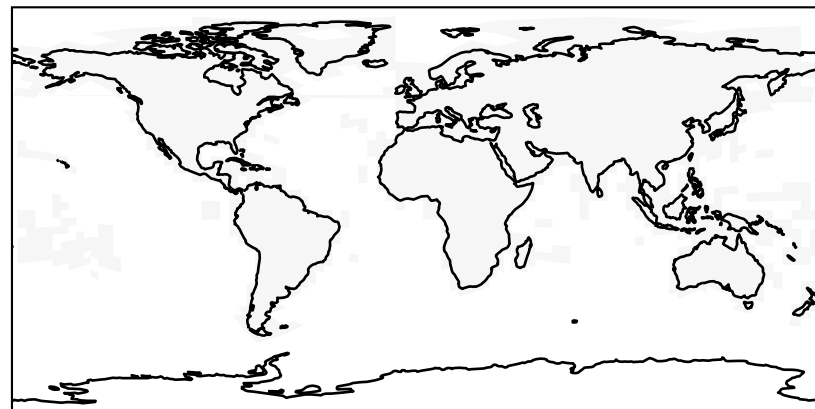
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

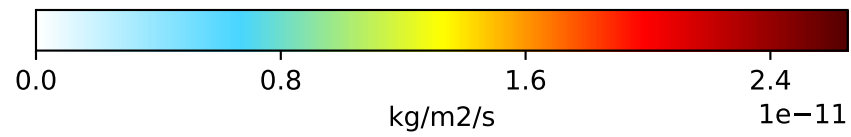
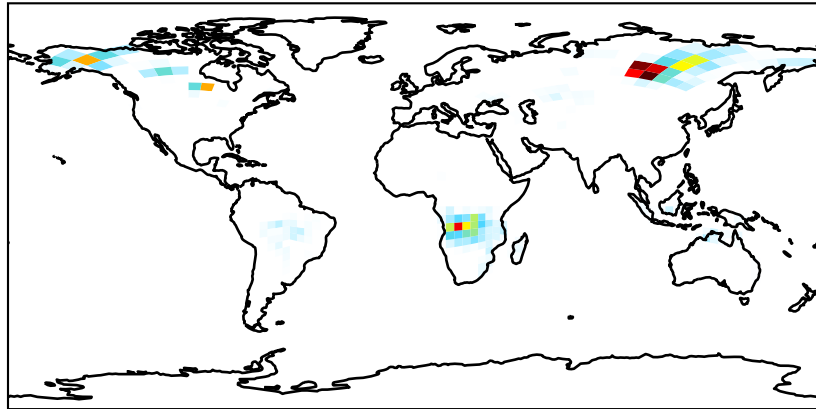


Ratio  
Dev/Ref, Fixed Range

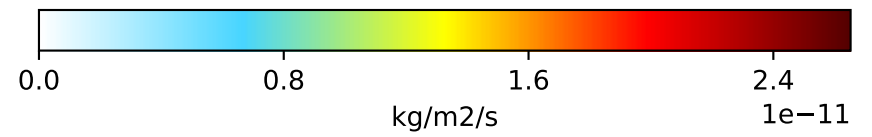
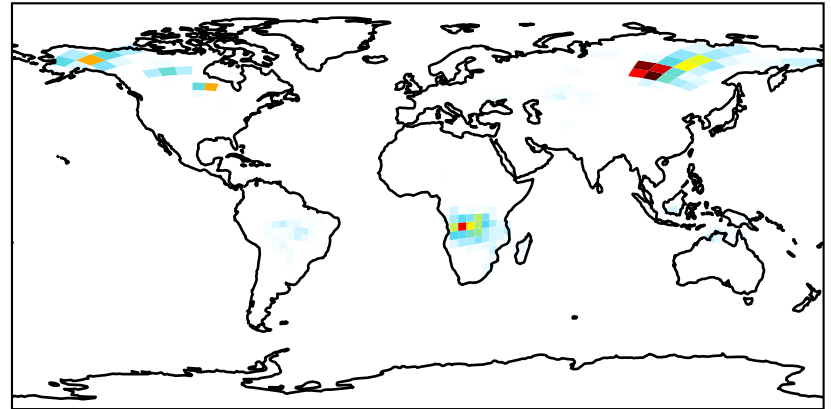


# EmisTOLU\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



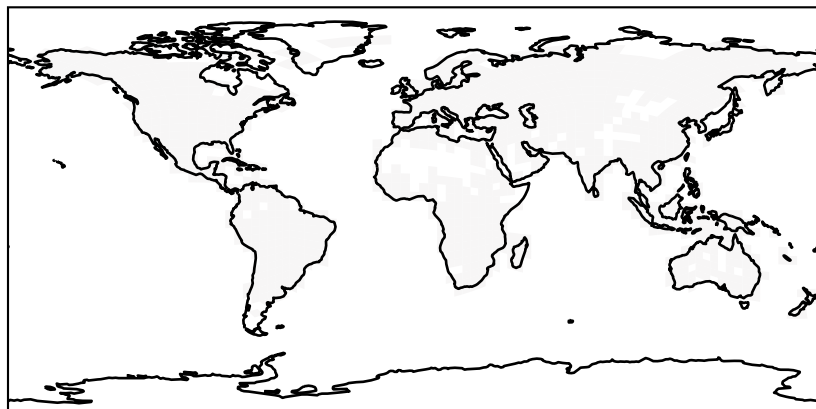
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

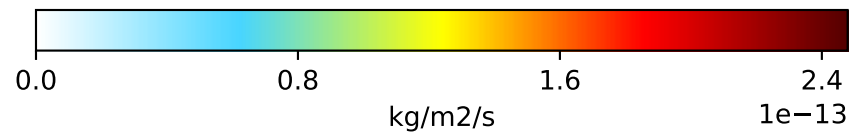
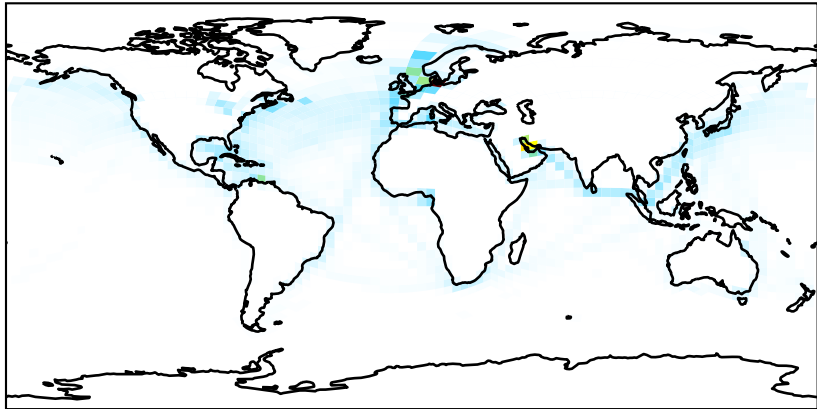


Ratio  
Dev/Ref, Fixed Range

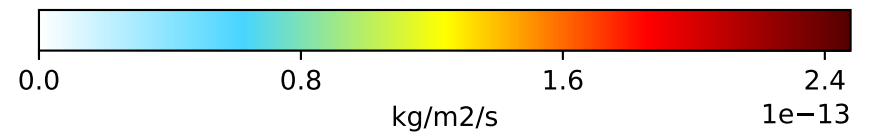
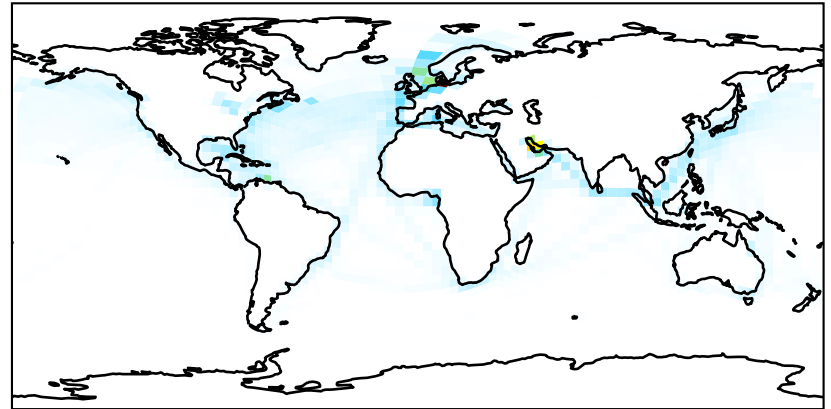


# EmisTOLU\_Ship

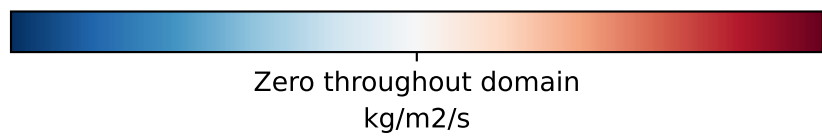
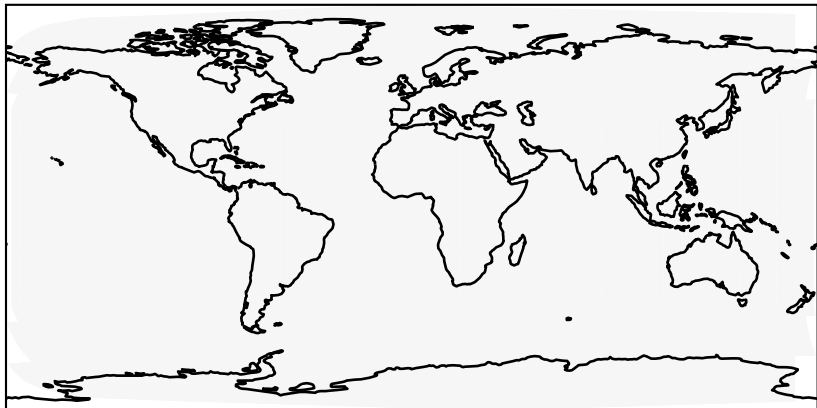
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



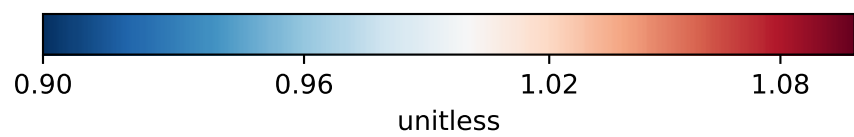
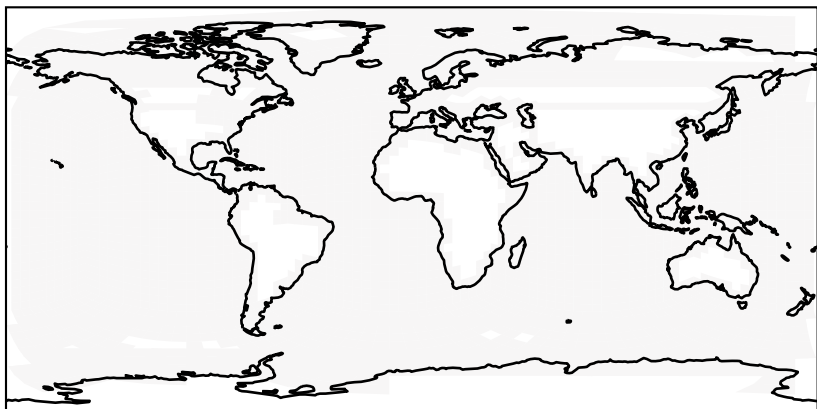
Difference  
Dev - Ref, Dynamic Range



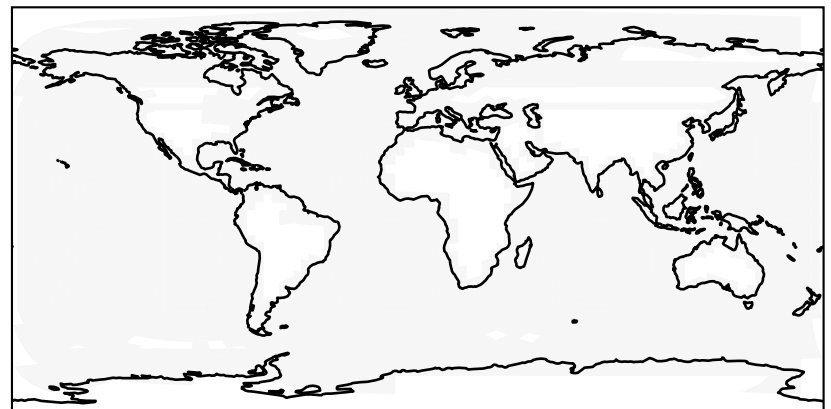
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



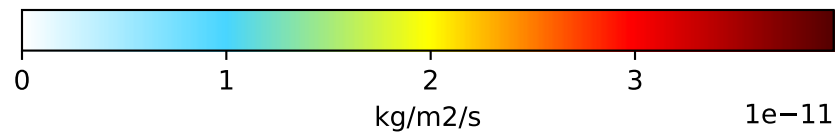
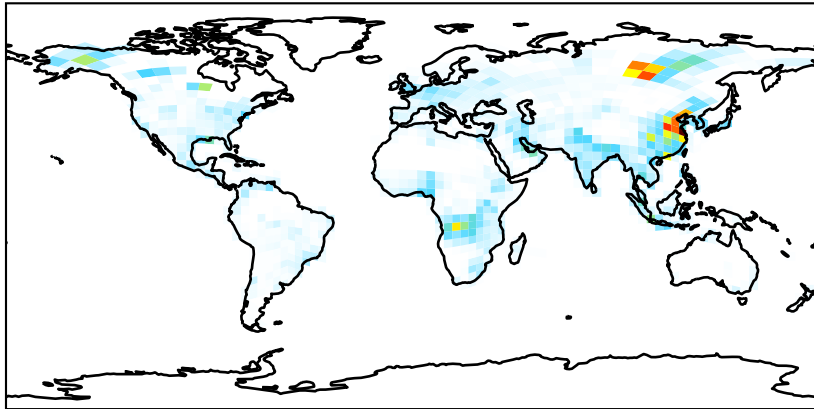
Ratio  
Dev/Ref, Fixed Range



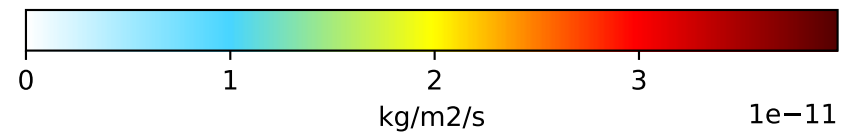
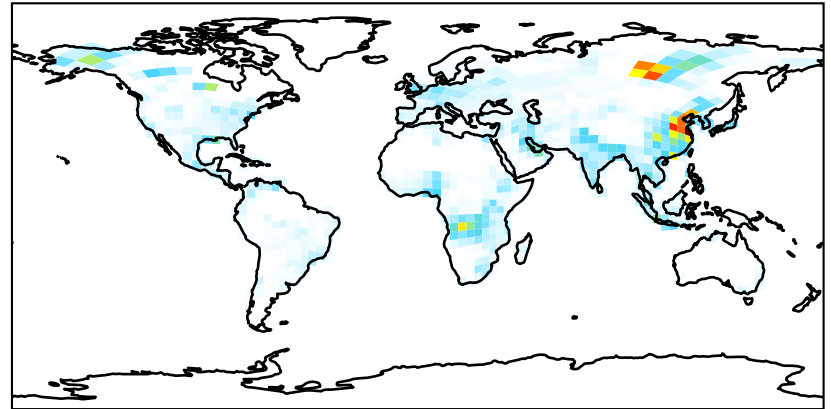


# EmisTOLU\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



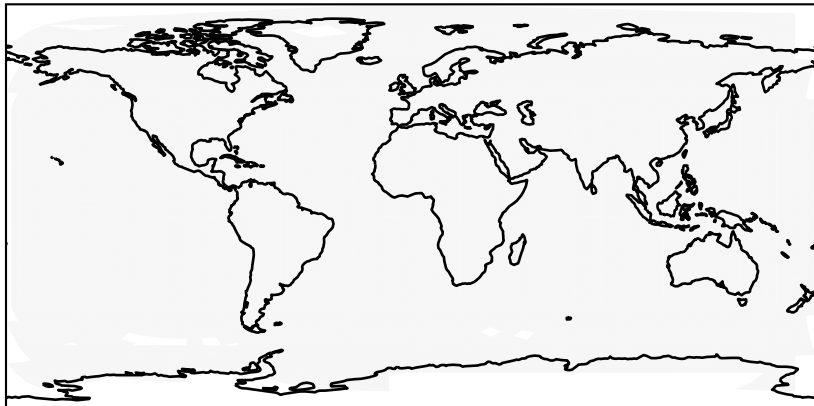
Difference  
Dev - Ref, Dynamic Range



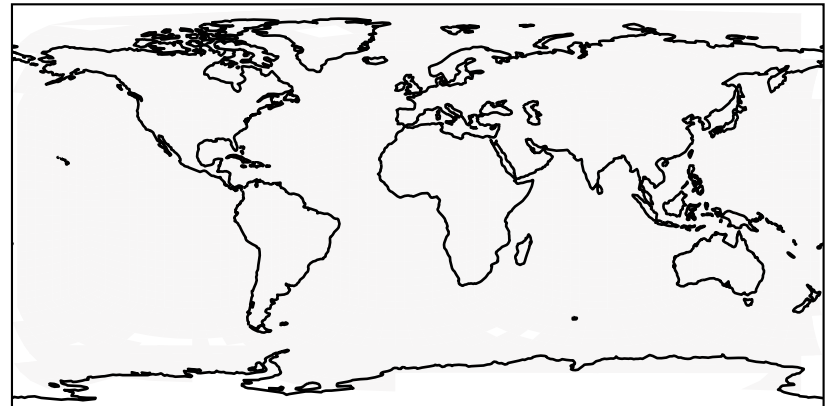
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

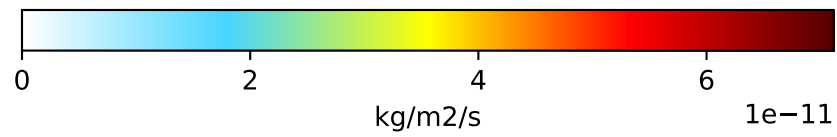
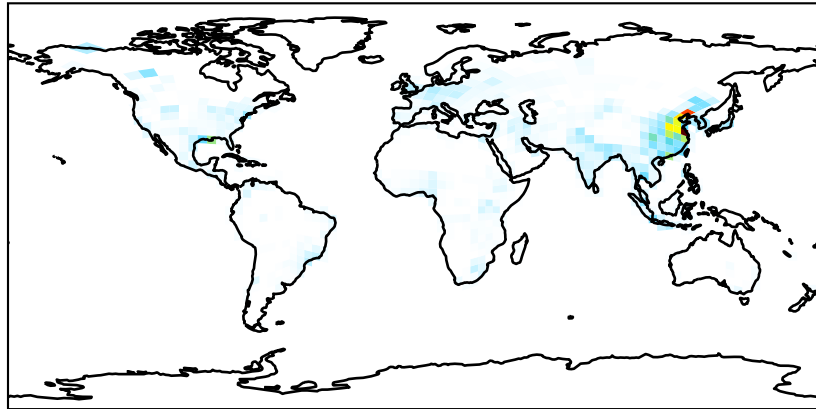


Ratio  
Dev/Ref, Fixed Range

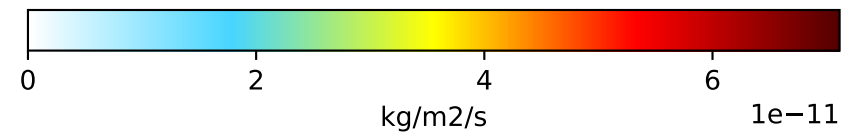
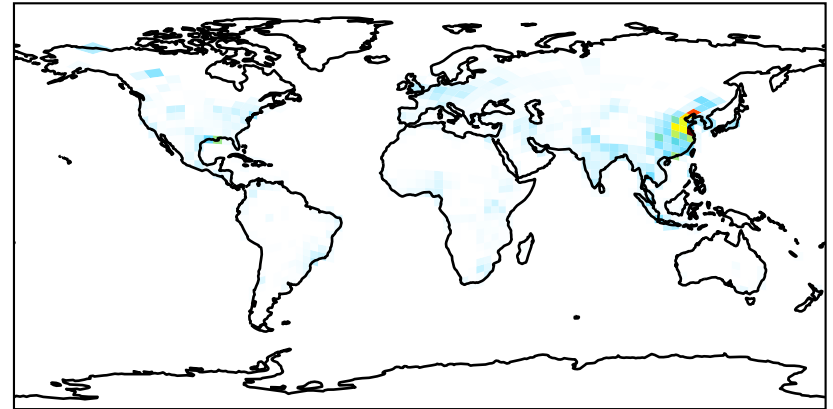


# EmisXYLE\_Anthro

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



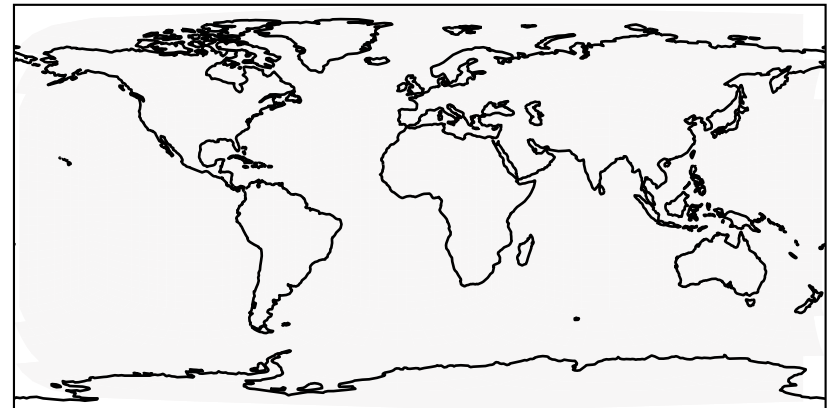
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



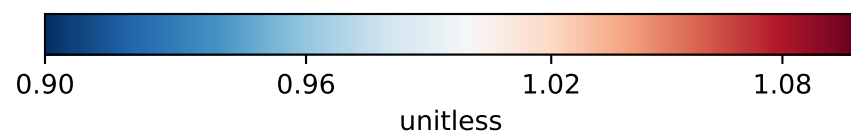
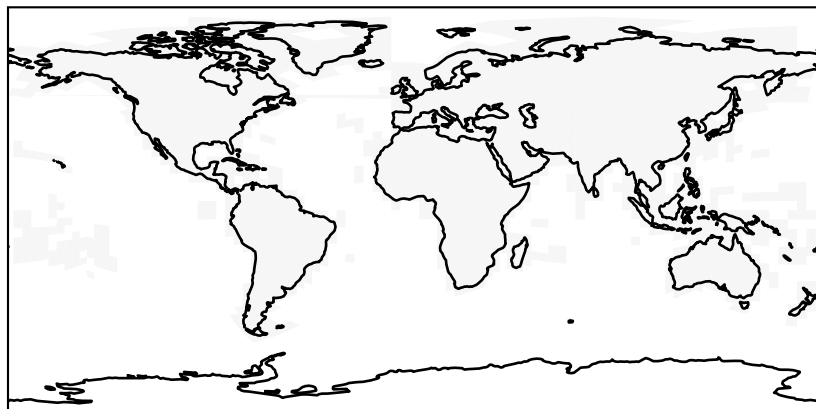
Difference  
Dev - Ref, Dynamic Range



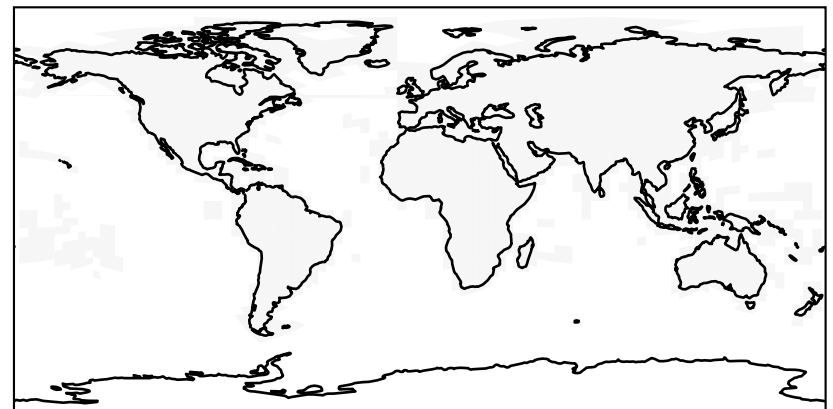
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

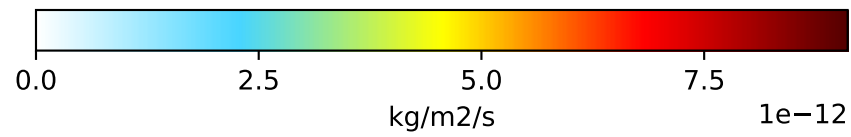
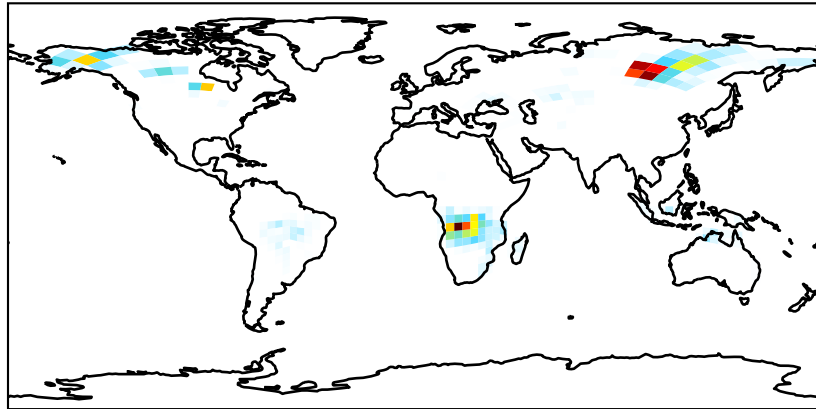


Ratio  
Dev/Ref, Fixed Range

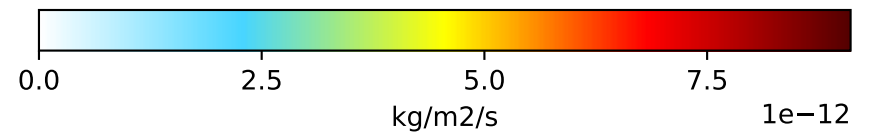
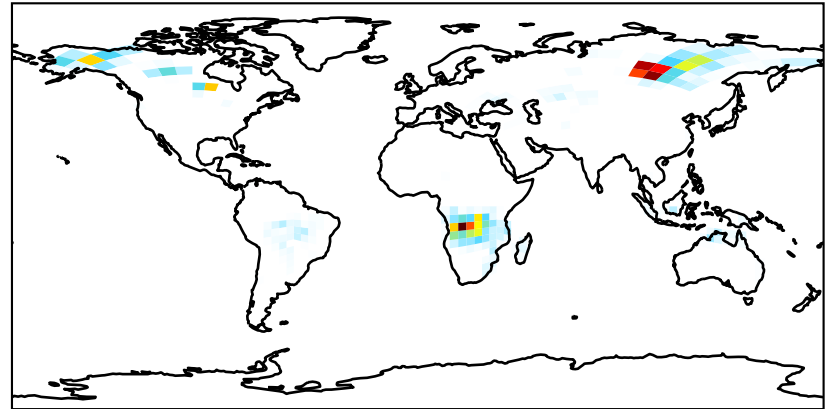


# EmisXYLE\_BioBurn

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



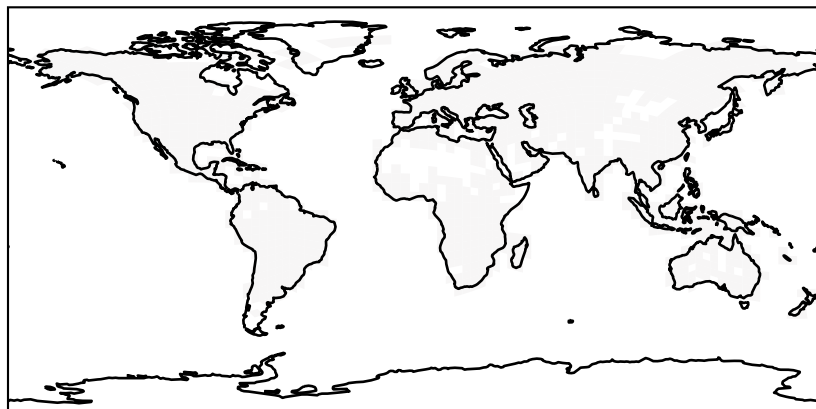
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

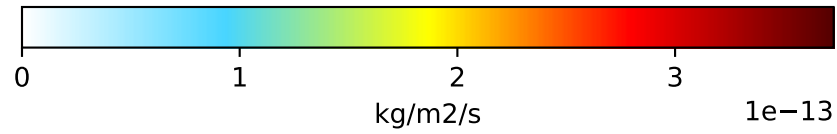
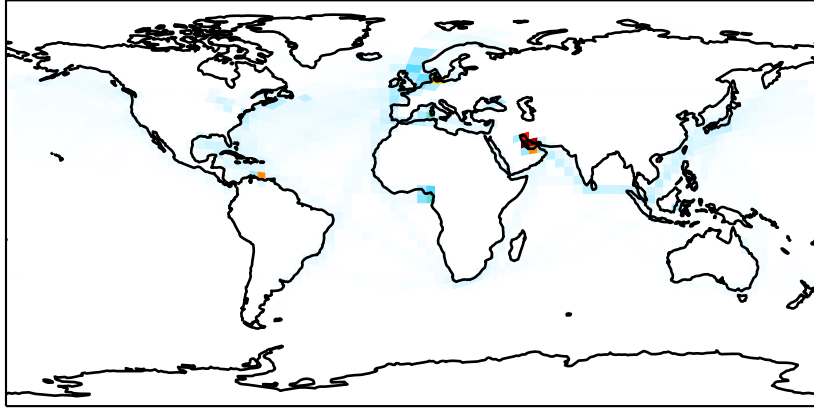


Ratio  
Dev/Ref, Fixed Range

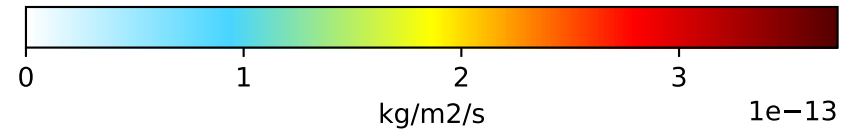
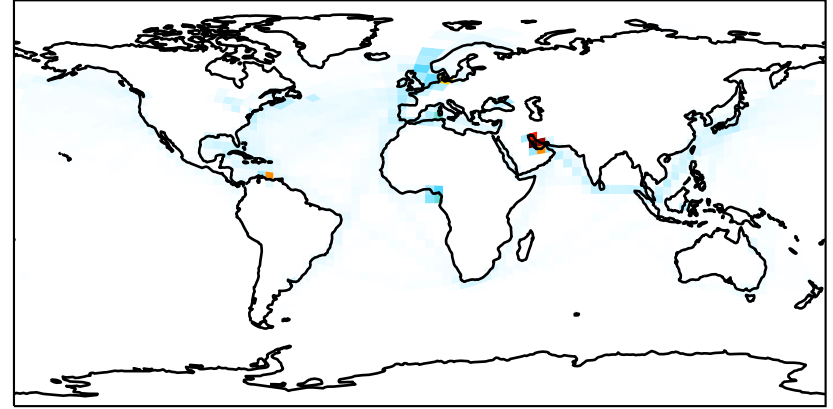


# EmisXYLE\_Ship

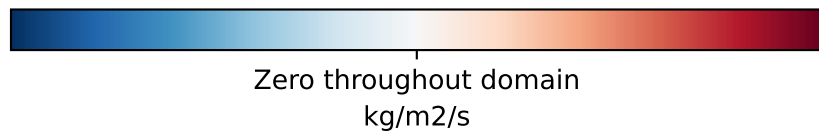
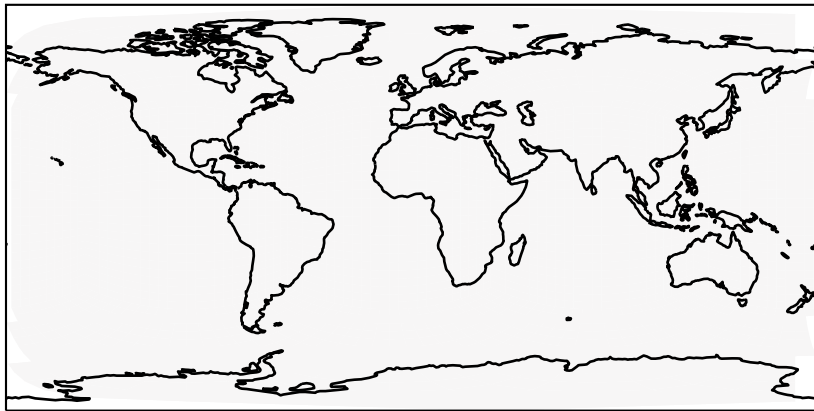
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



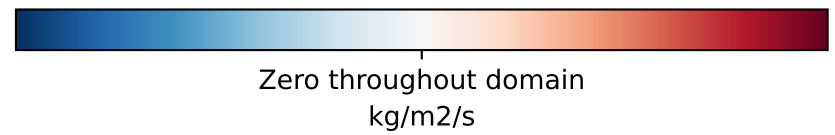
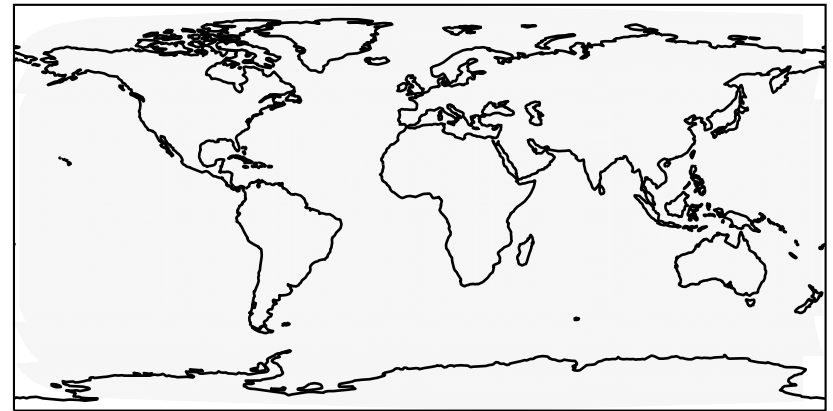
GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



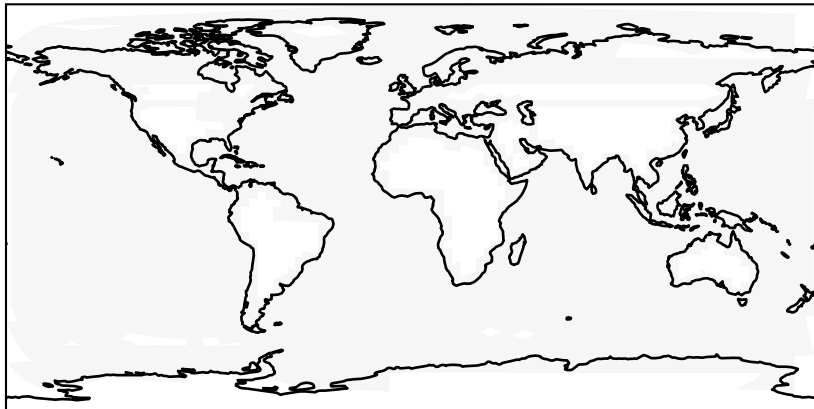
Difference  
Dev - Ref, Dynamic Range



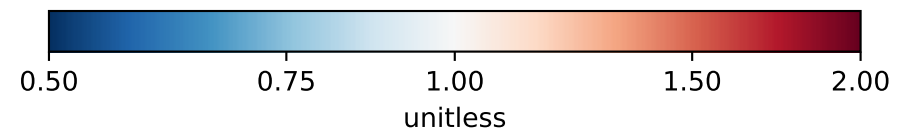
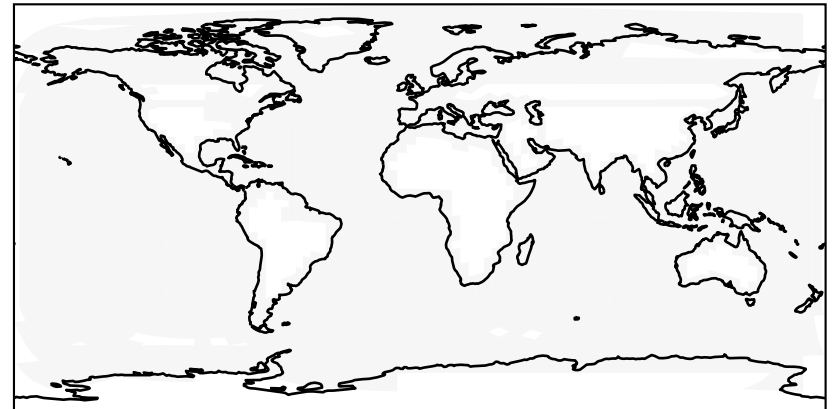
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



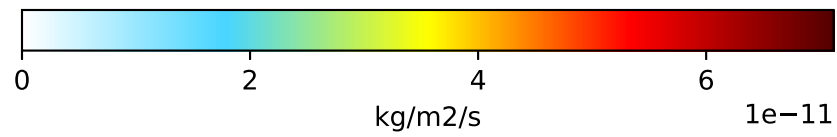
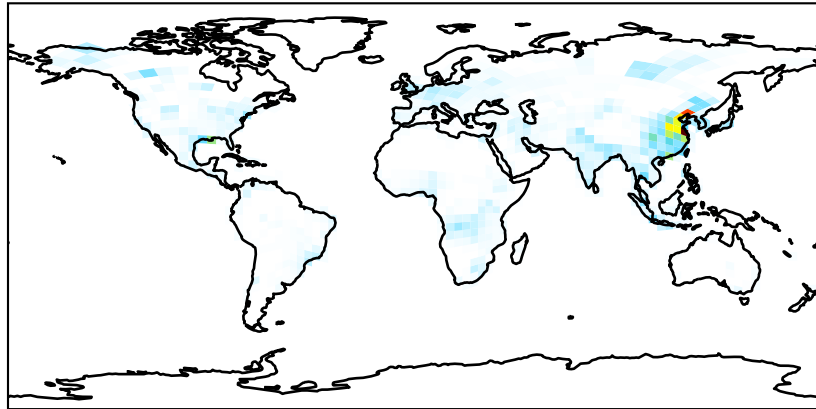
Ratio  
Dev/Ref, Fixed Range



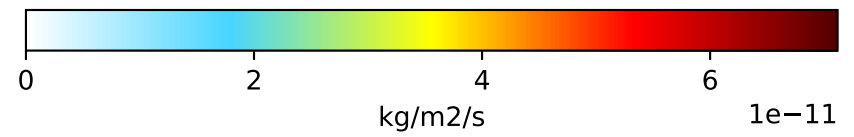
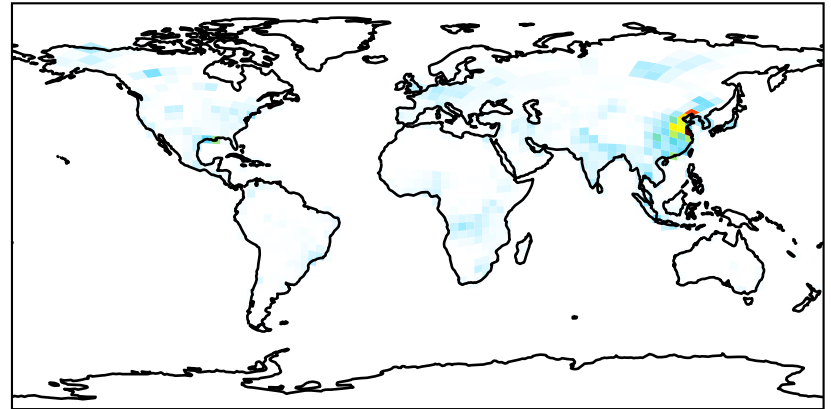


# EmisXYLE\_Total

GCHP\_14.2.0\_MERRA2 (Ref)  
c24



GCHP\_14.2.0\_GEOS-FP (Dev)  
c24



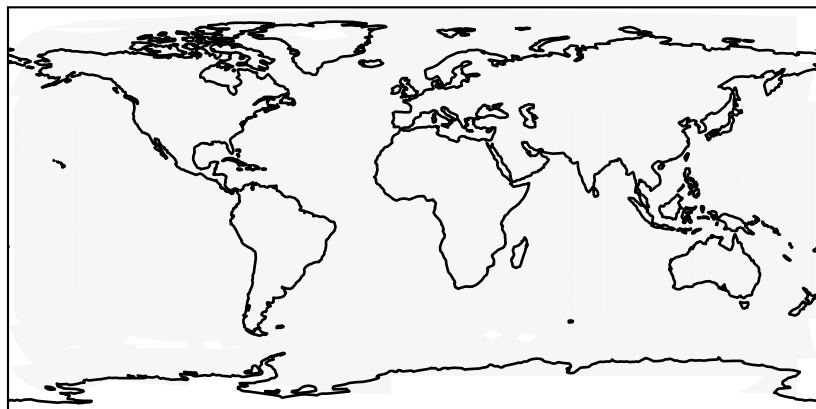
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

