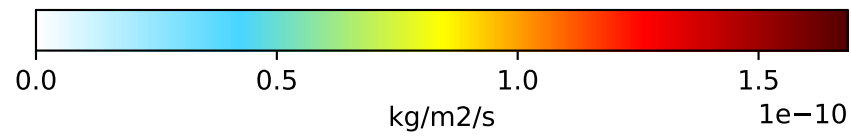
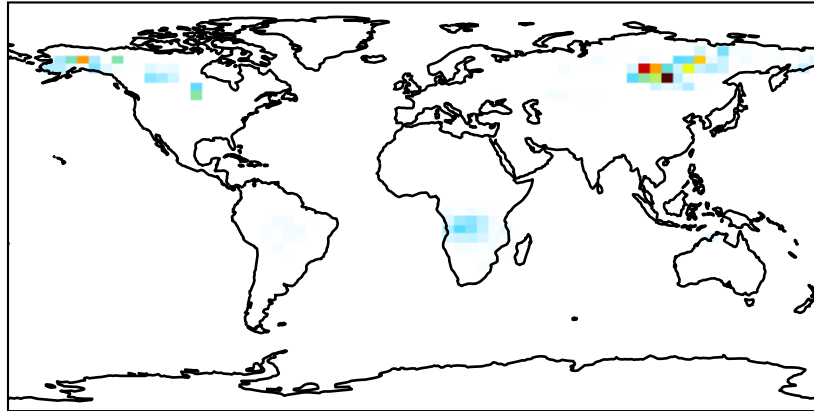
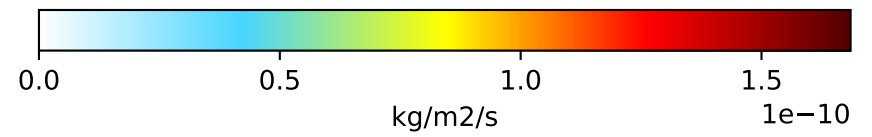
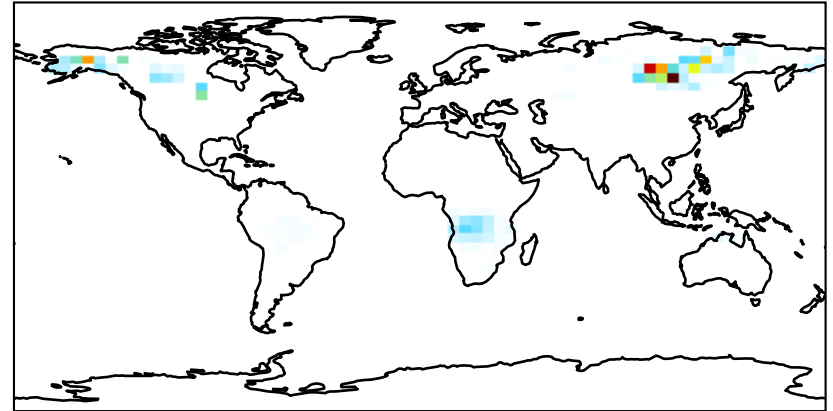


# EmisACET\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



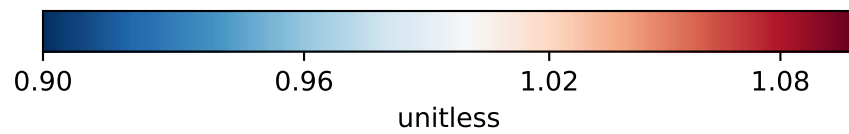
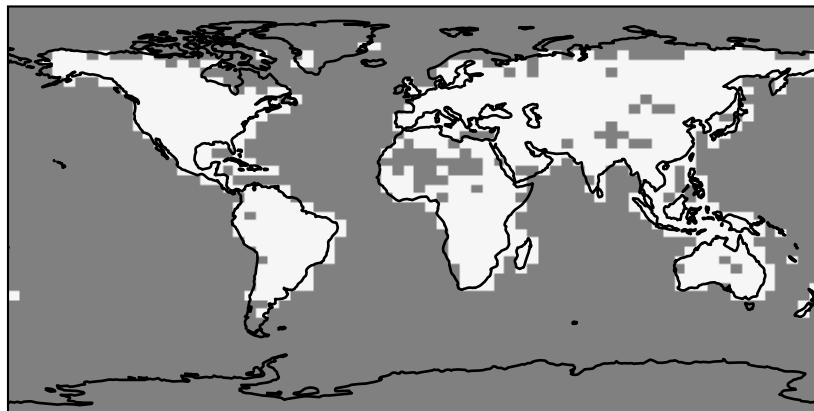
Difference  
Dev - Ref, Dynamic Range



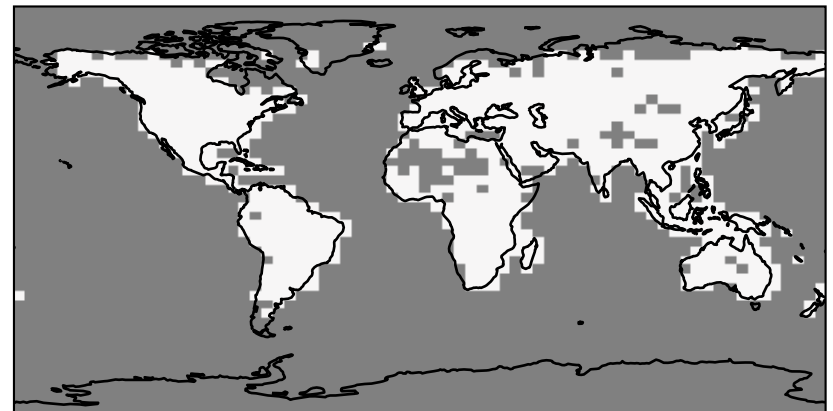
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

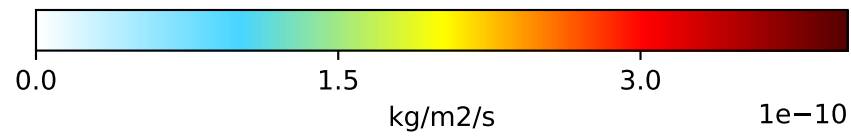
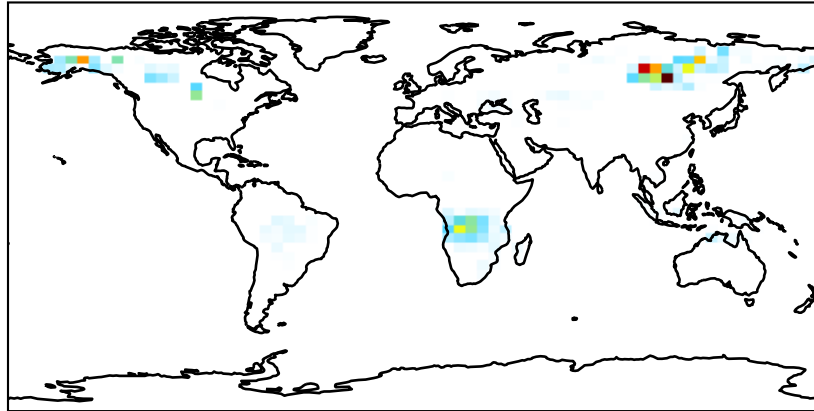


Ratio  
Dev/Ref, Fixed Range

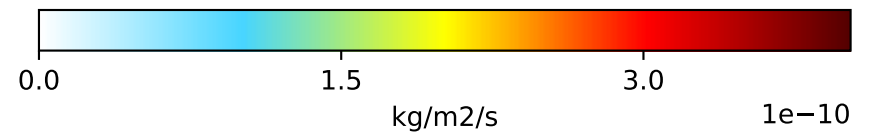
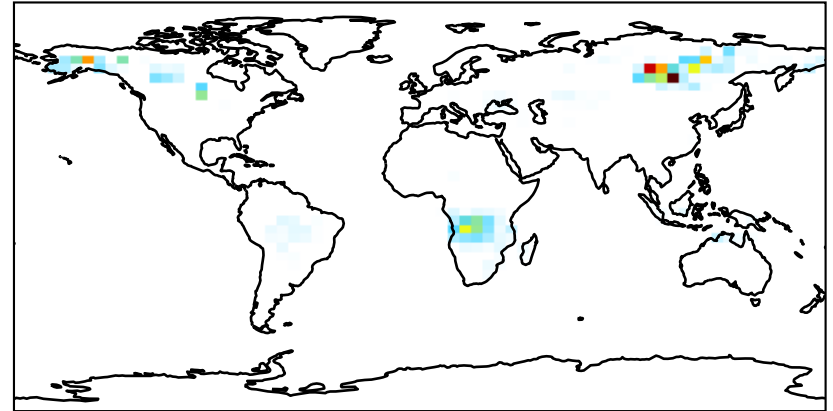


# EmisACTA\_BioBurn

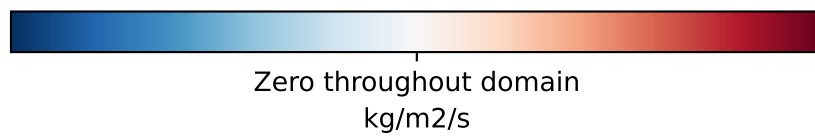
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



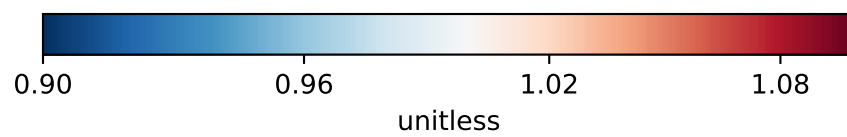
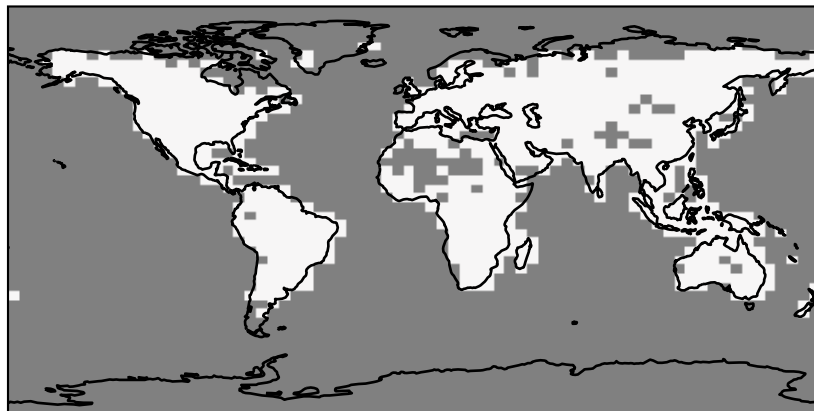
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range

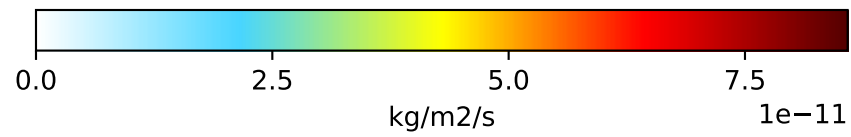
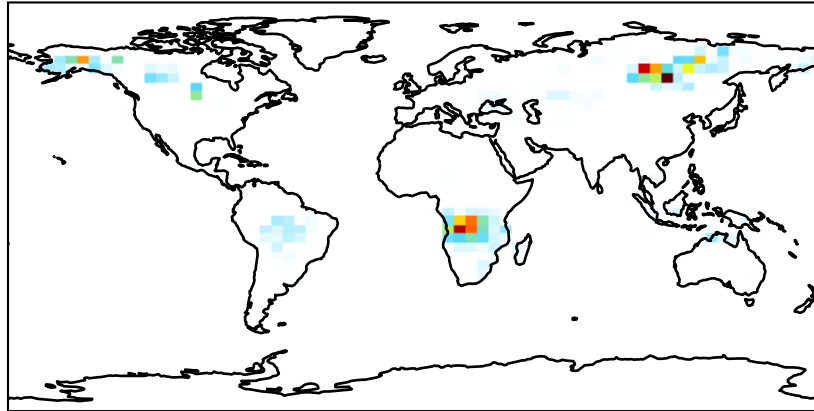


Ratio  
Dev/Ref, Fixed Range

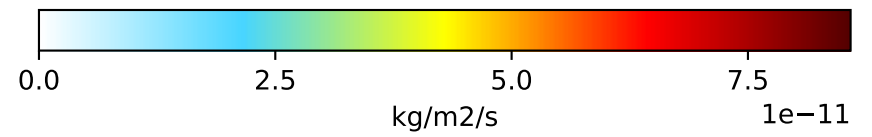
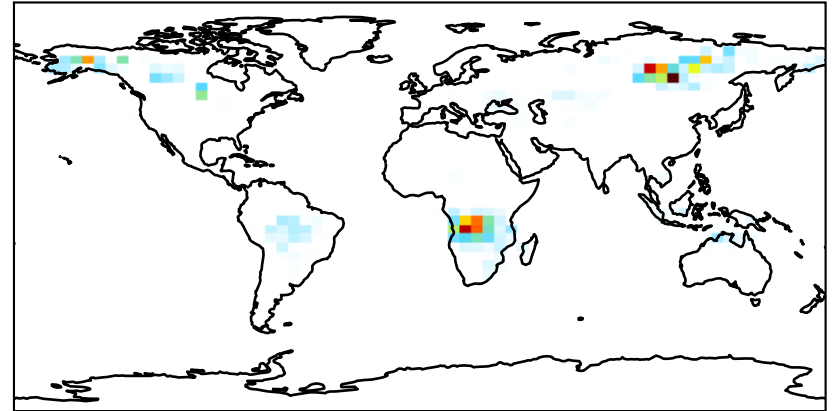


# EmisALD2\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



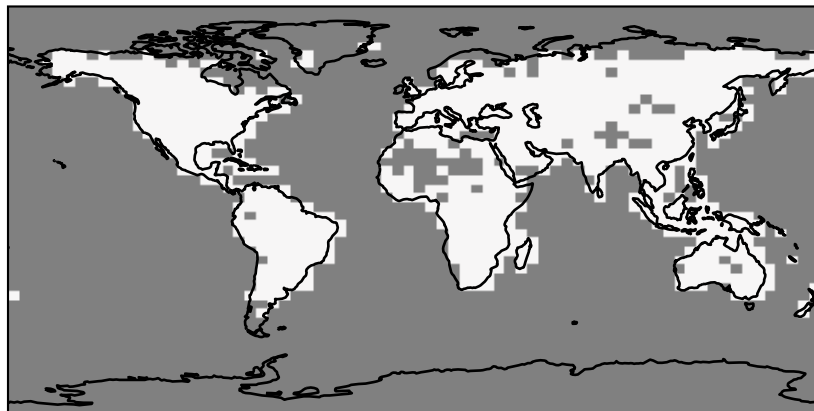
Difference  
Dev - Ref, Dynamic Range



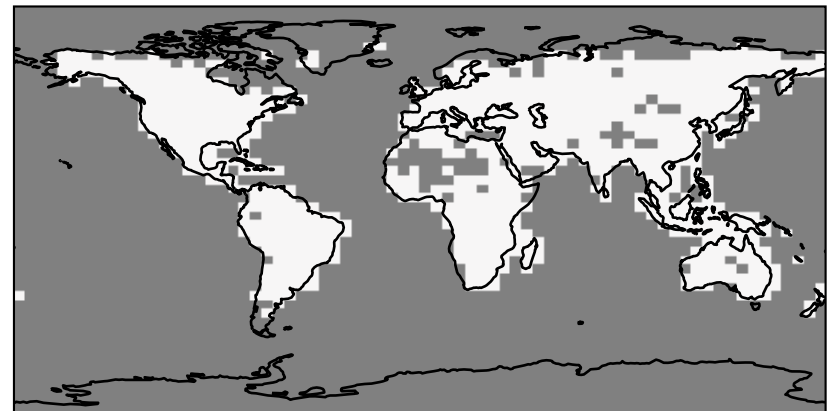
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

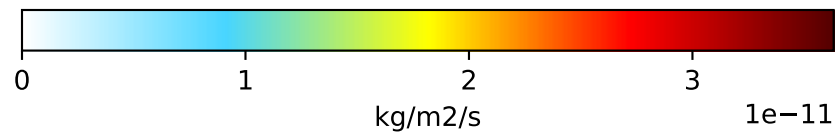
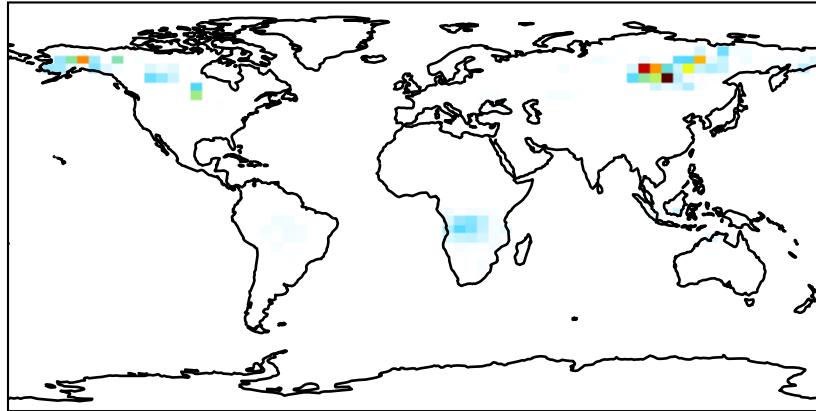


Ratio  
Dev/Ref, Fixed Range

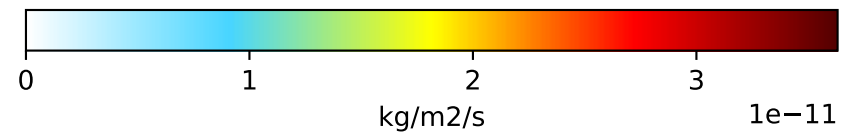
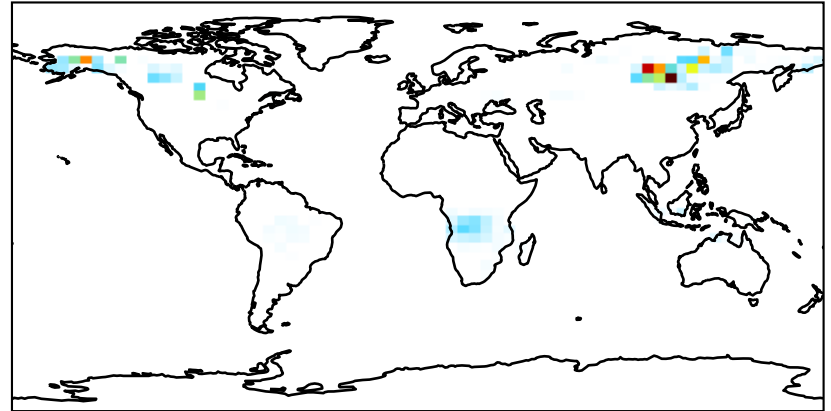


# EmisALK4\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



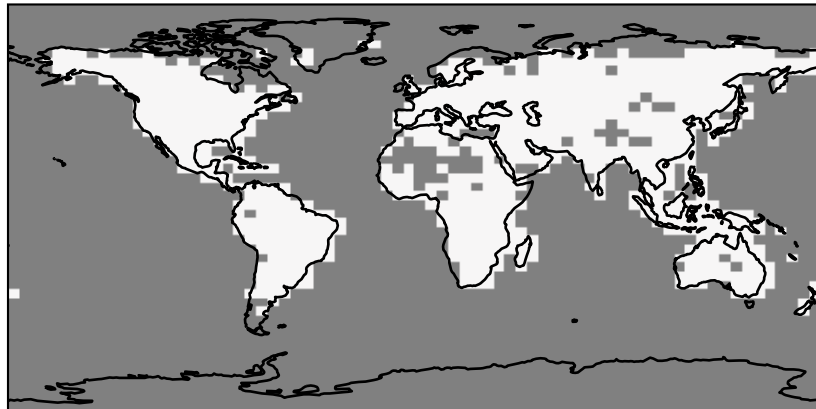
Difference  
Dev - Ref, Dynamic Range



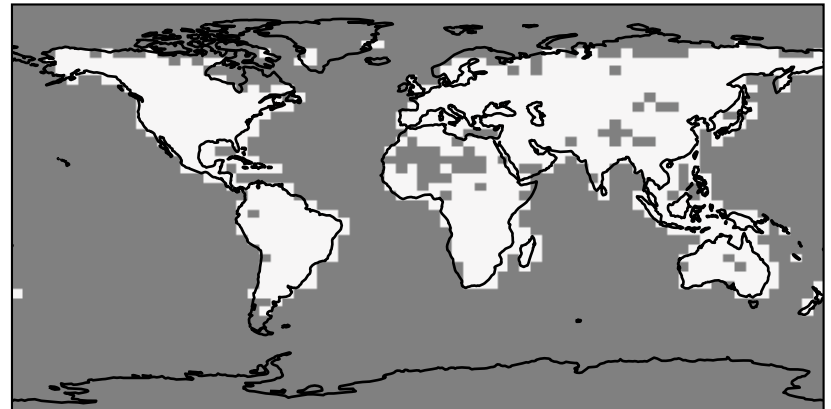
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

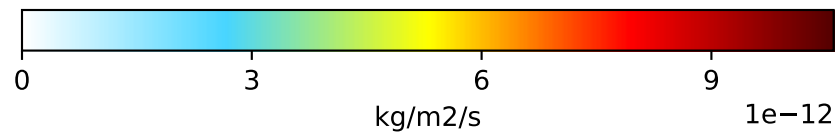
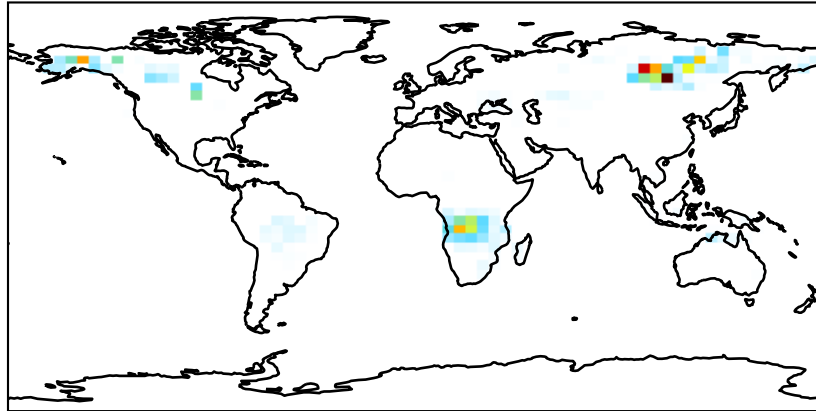


Ratio  
Dev/Ref, Fixed Range

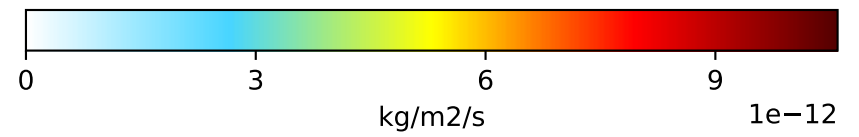
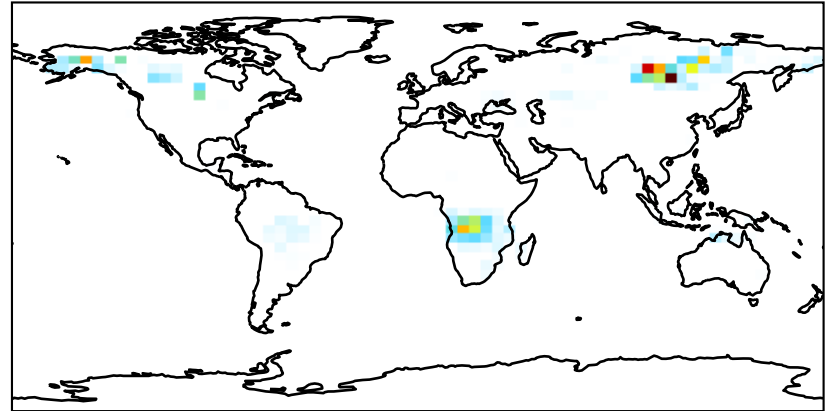


# EmisBCPI\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



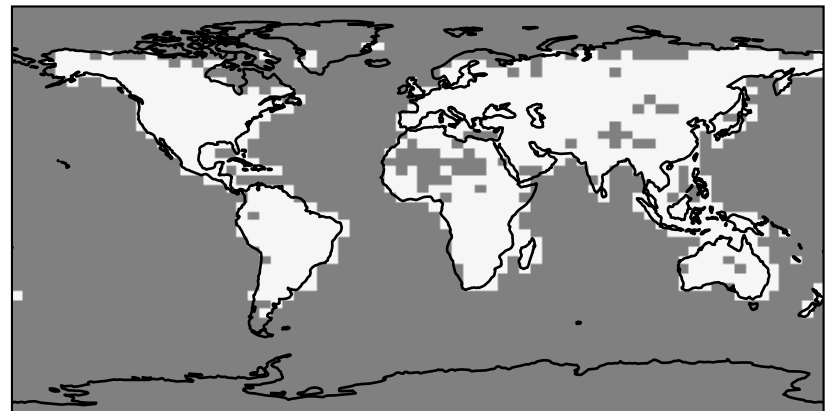
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

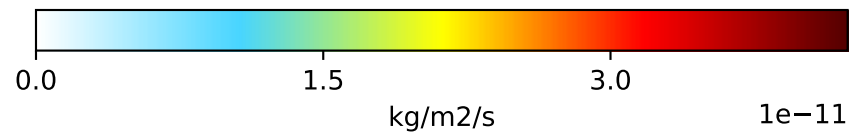
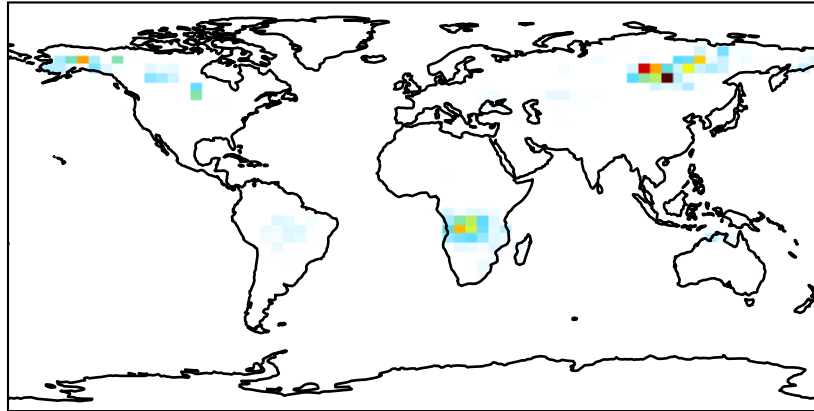


Ratio  
Dev/Ref, Fixed Range

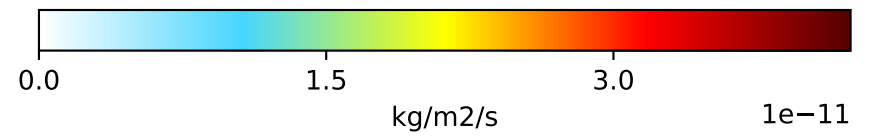
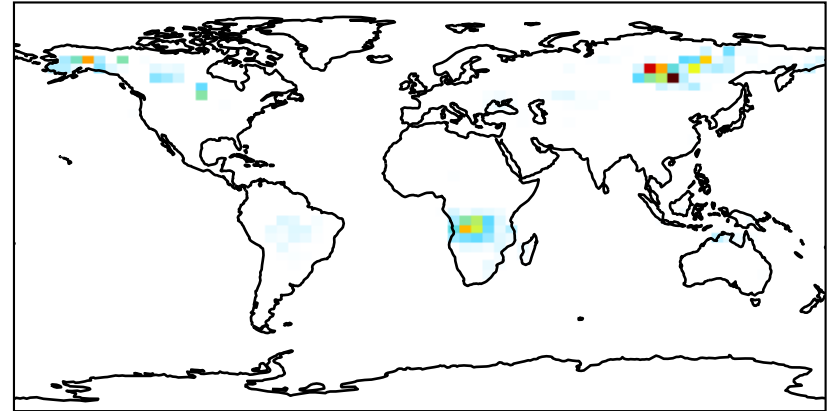


# EmisBCPO\_BioBurn

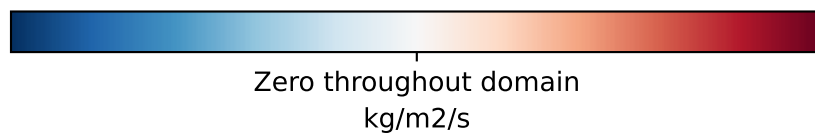
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



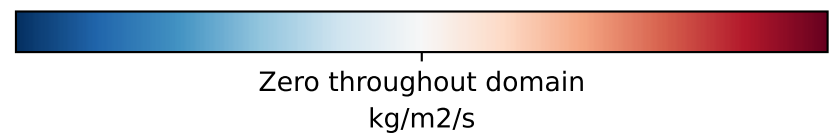
GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



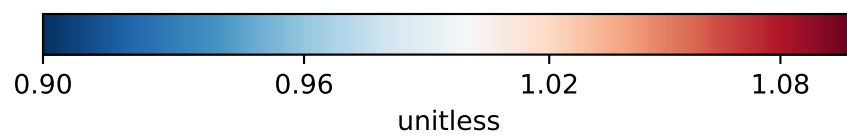
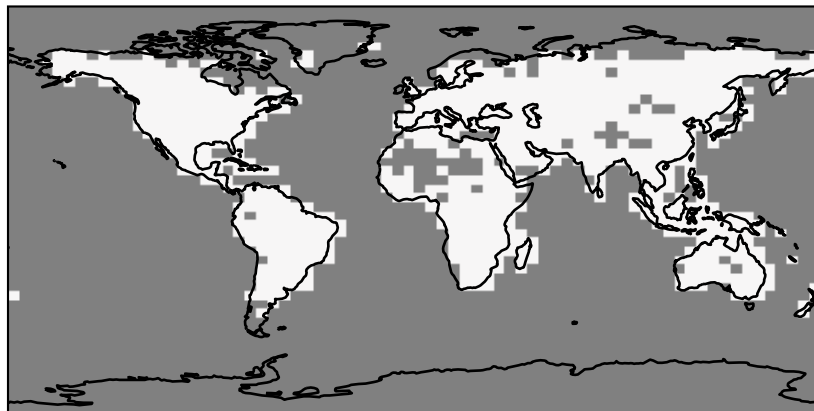
Difference  
Dev - Ref, Dynamic Range



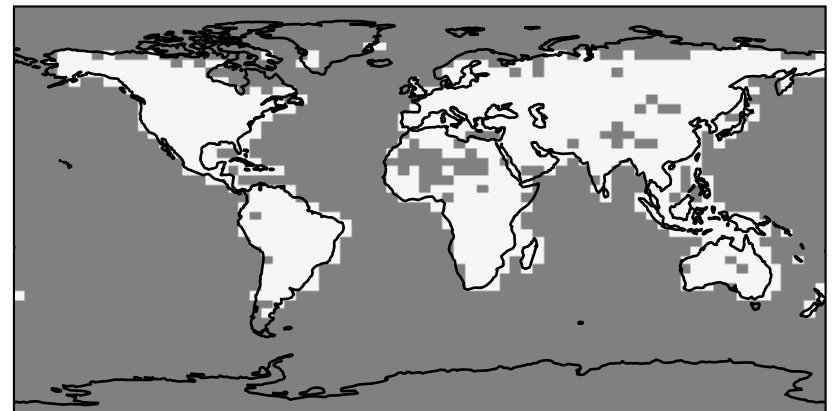
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

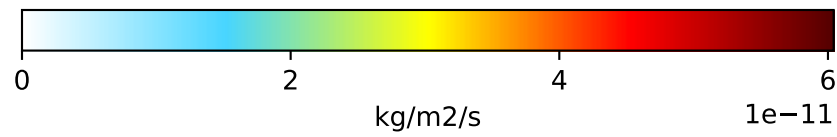
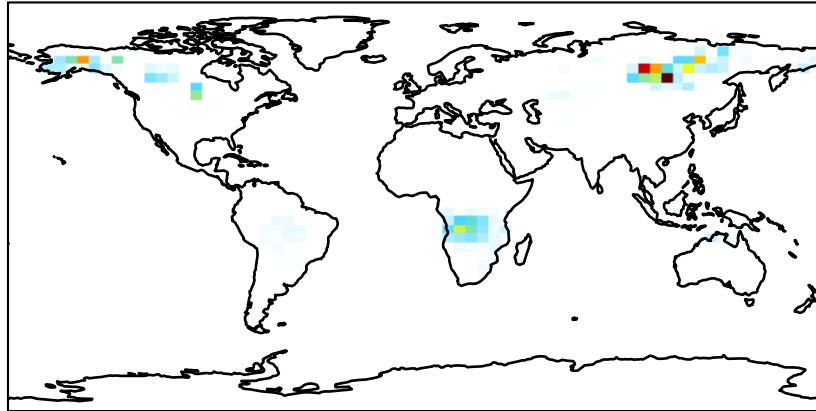


Ratio  
Dev/Ref, Fixed Range

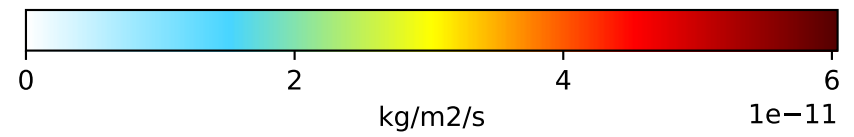
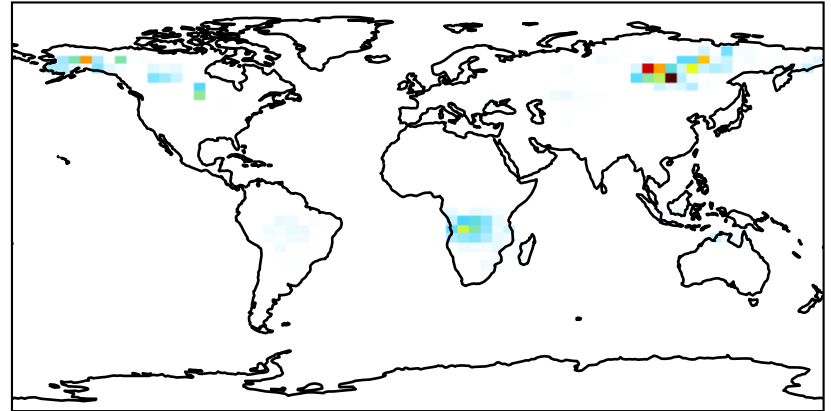


# EmisBENZ\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



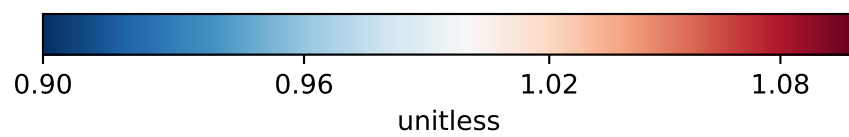
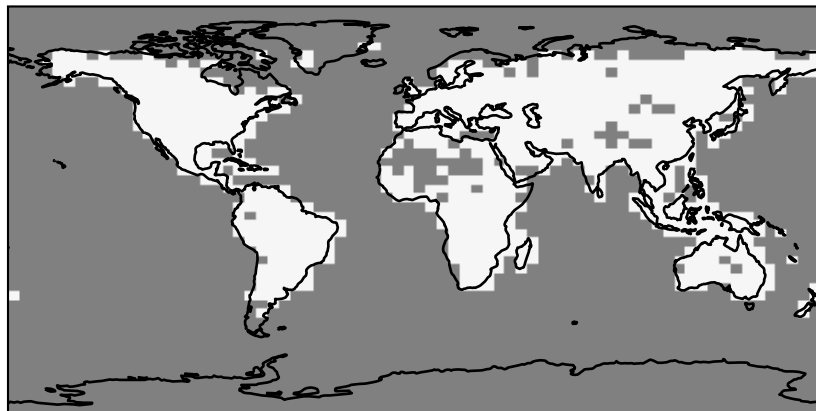
Difference  
Dev - Ref, Dynamic Range



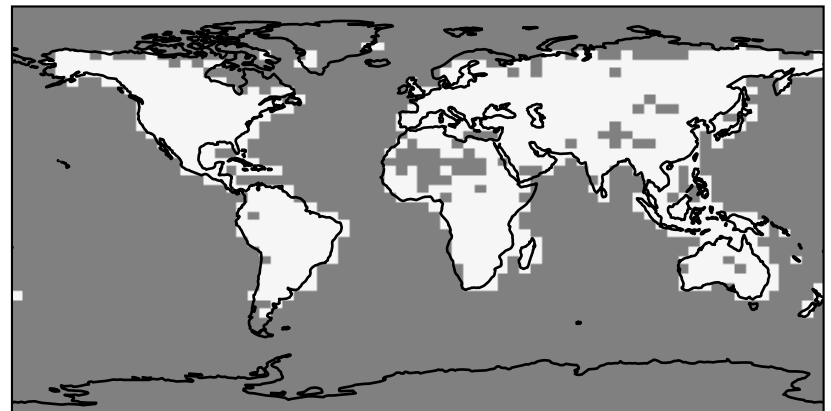
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

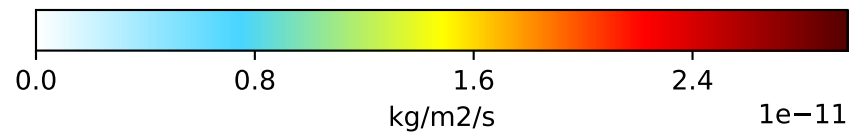
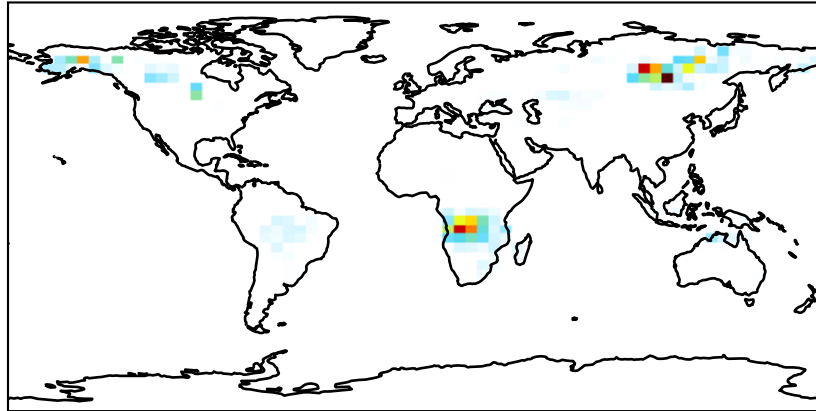


Ratio  
Dev/Ref, Fixed Range

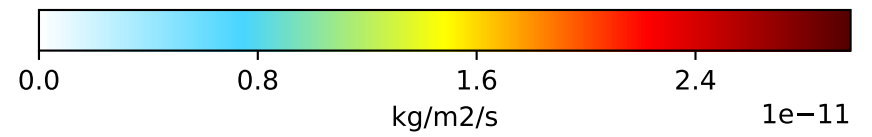
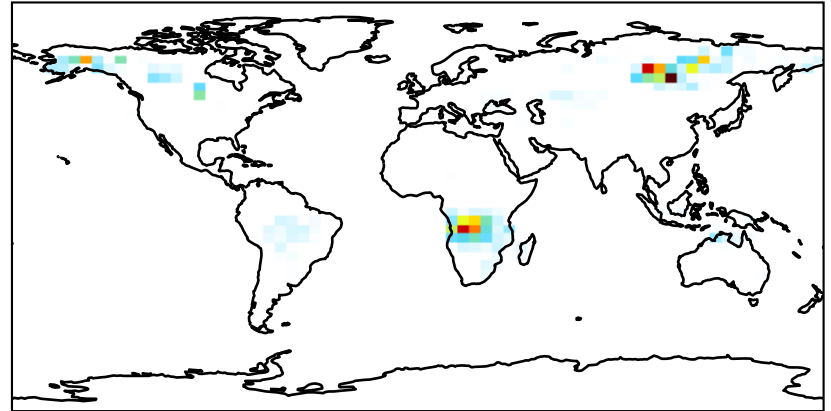


# EmisC2H2\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



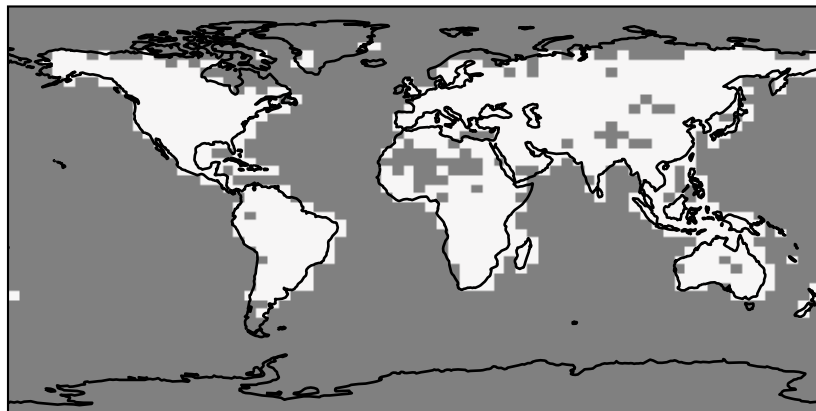
Difference  
Dev - Ref, Dynamic Range



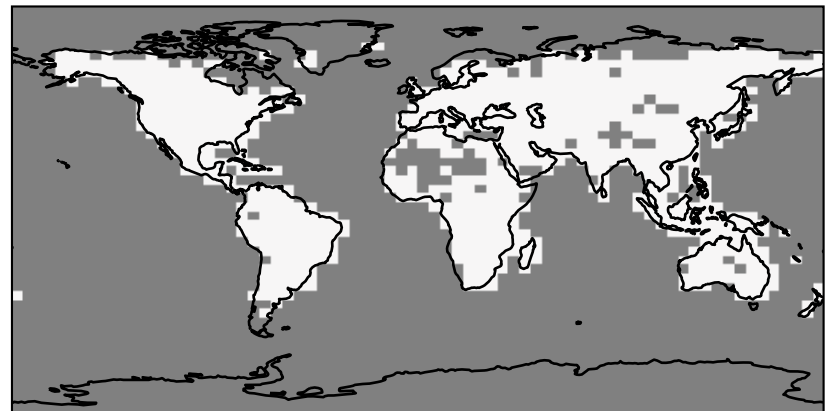
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



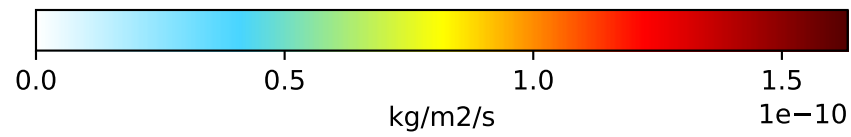
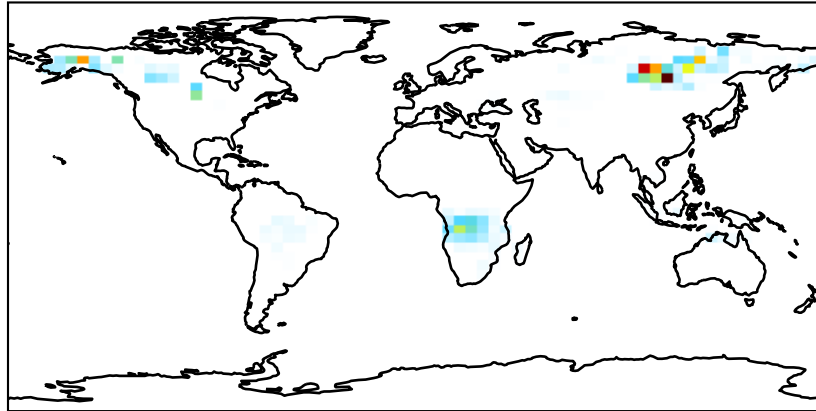
Ratio  
Dev/Ref, Fixed Range



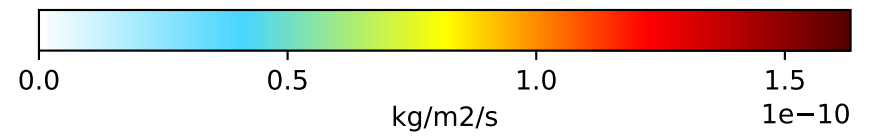
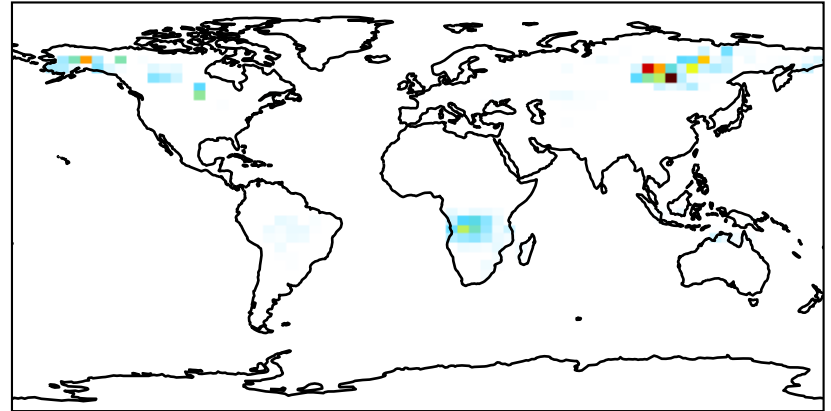


# EmisC2H4\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range

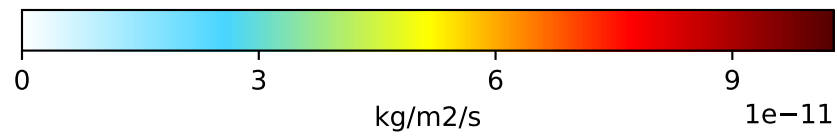
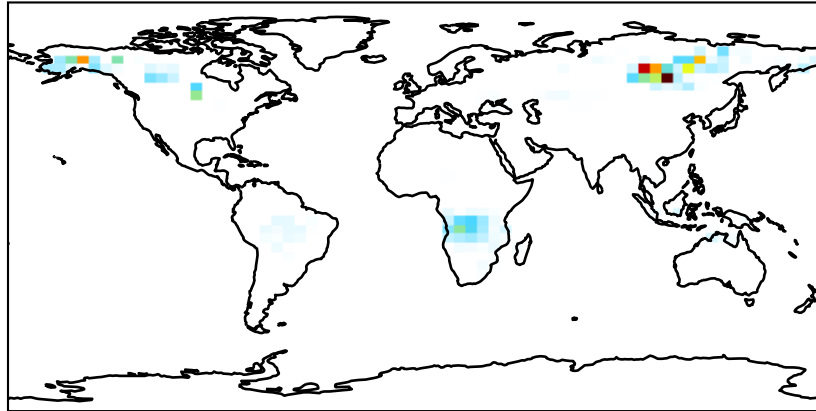


Ratio  
Dev/Ref, Fixed Range

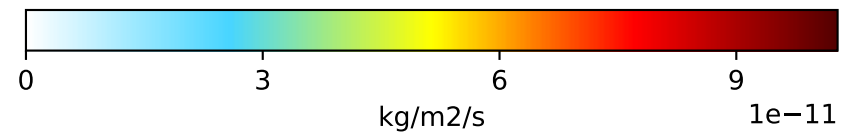
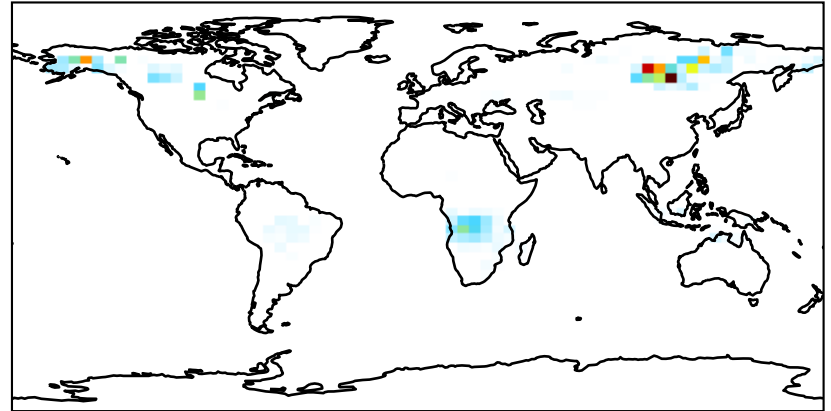


# EmisC2H6\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



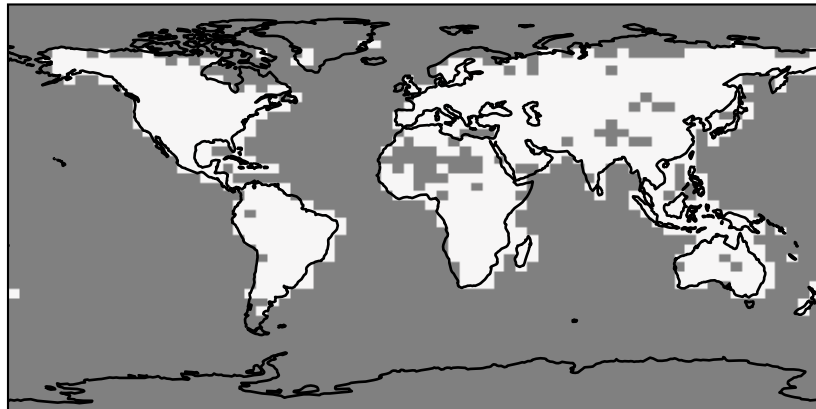
Difference  
Dev - Ref, Dynamic Range



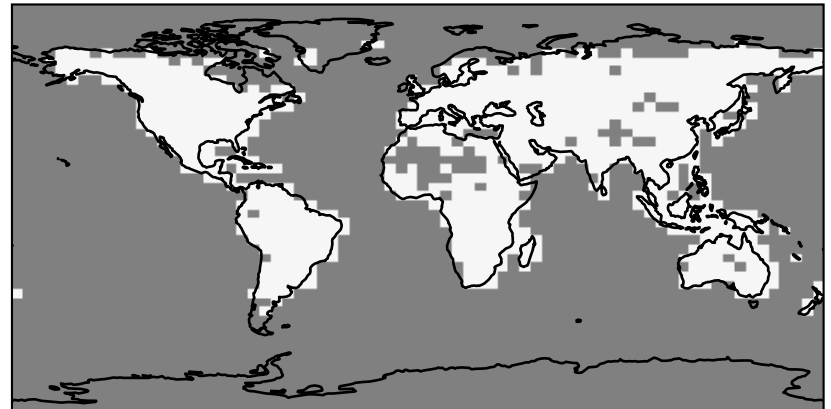
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

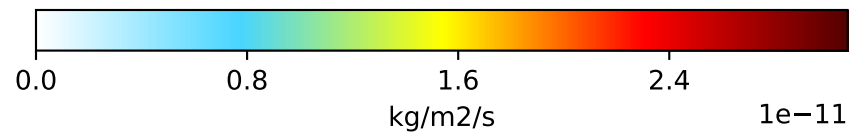
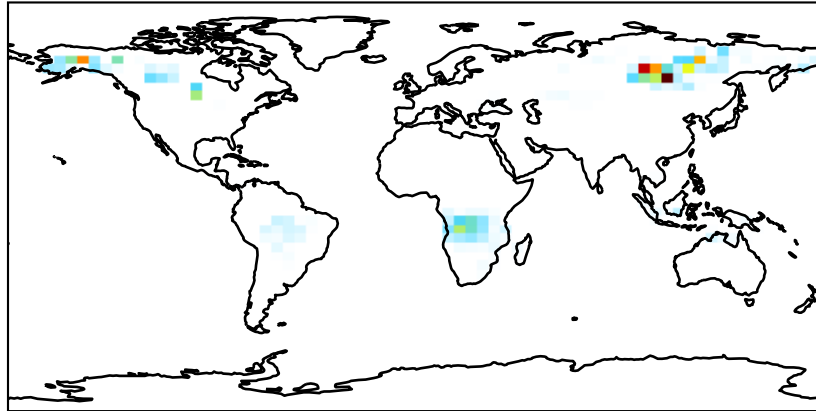


Ratio  
Dev/Ref, Fixed Range

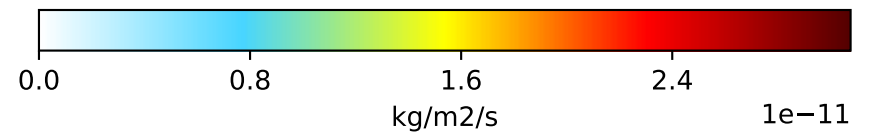
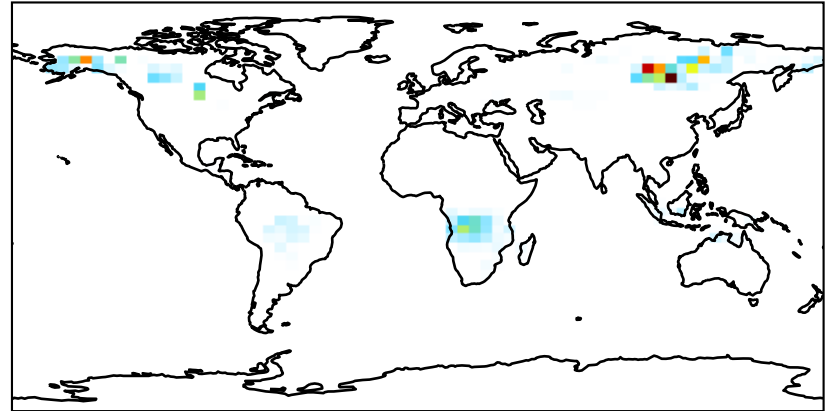


# EmisC3H8\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



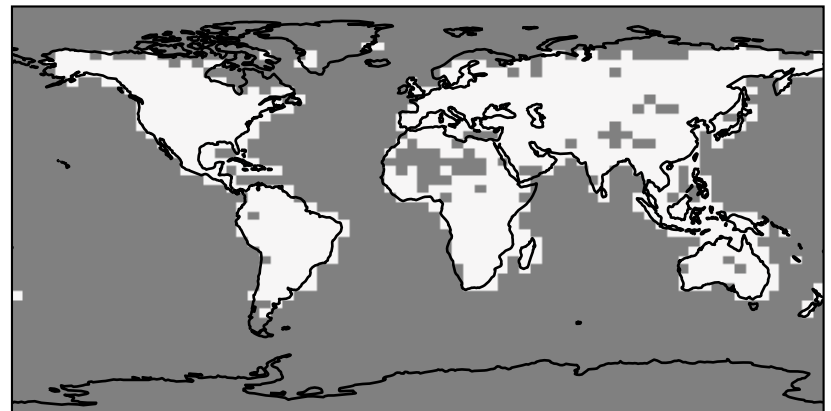
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

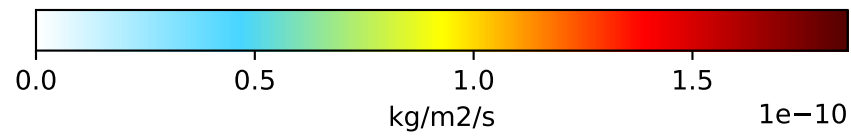
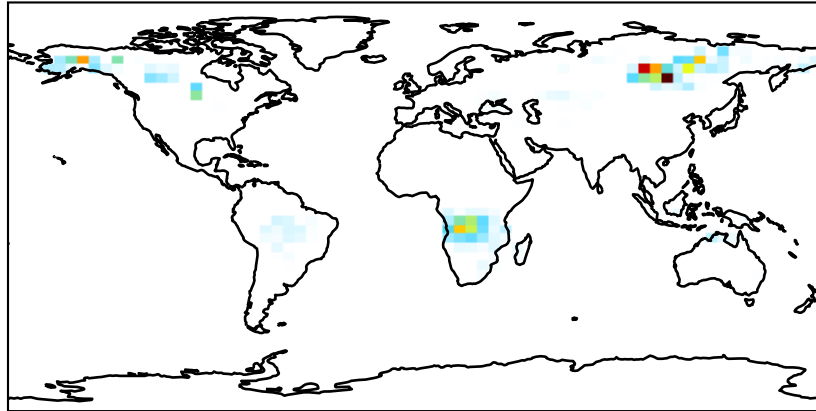


Ratio  
Dev/Ref, Fixed Range

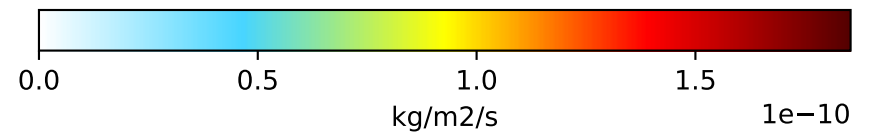
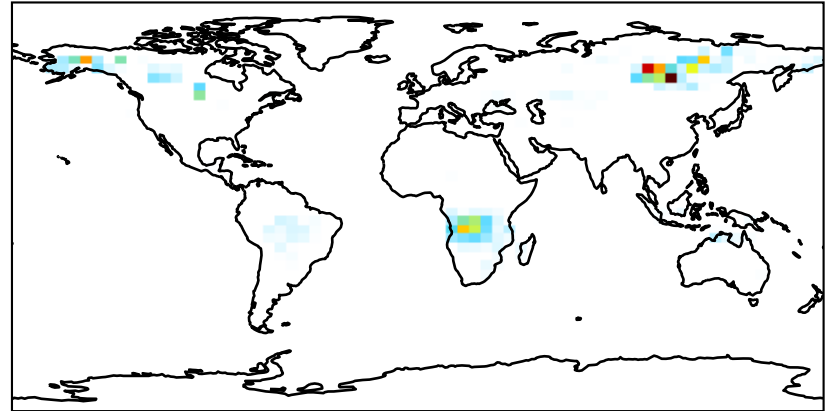


# EmisCH2O\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0

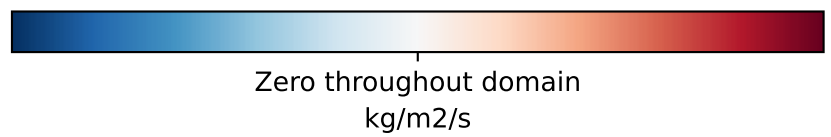
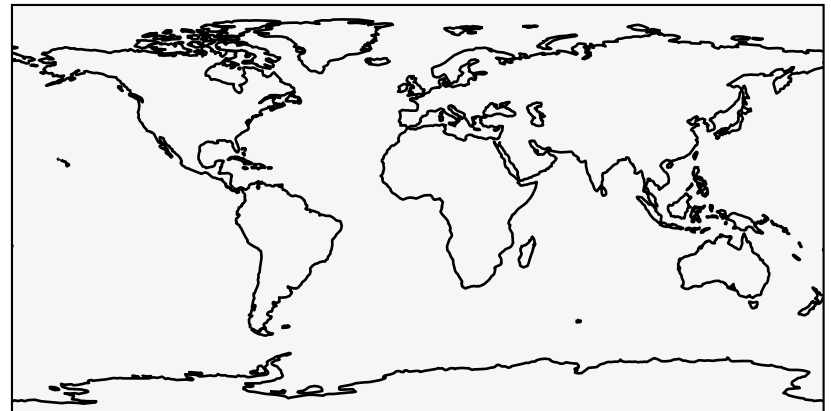


Difference  
Dev - Ref, Dynamic Range



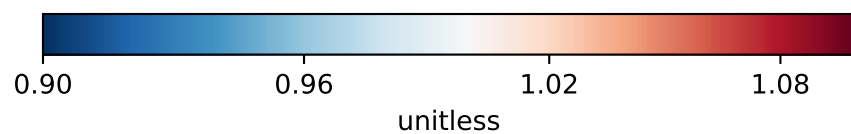
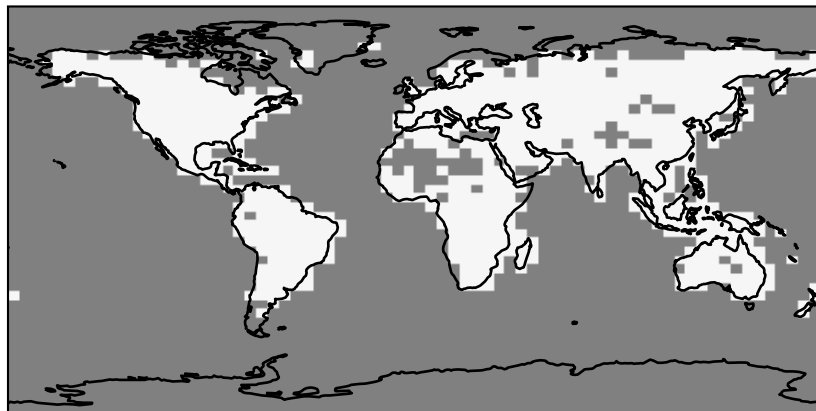
Zero throughout domain  
kg/m2/s

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



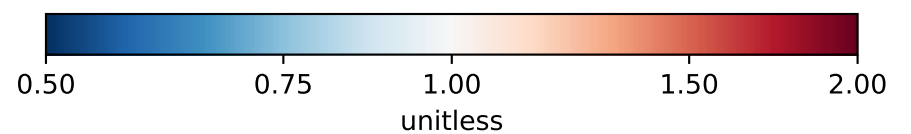
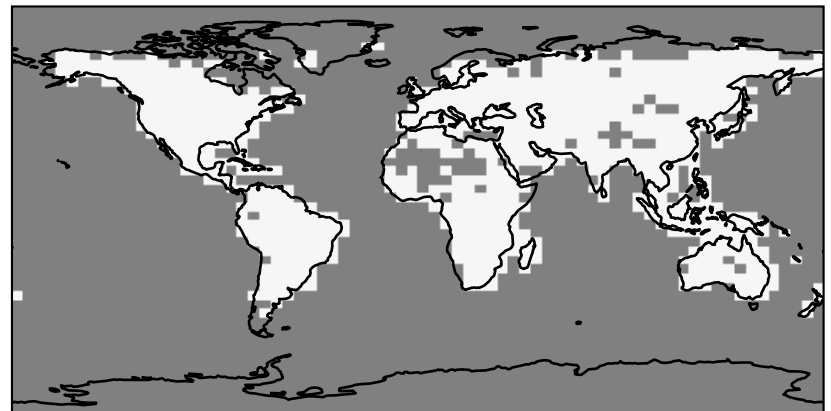
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



unitless

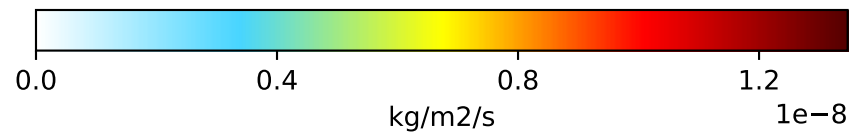
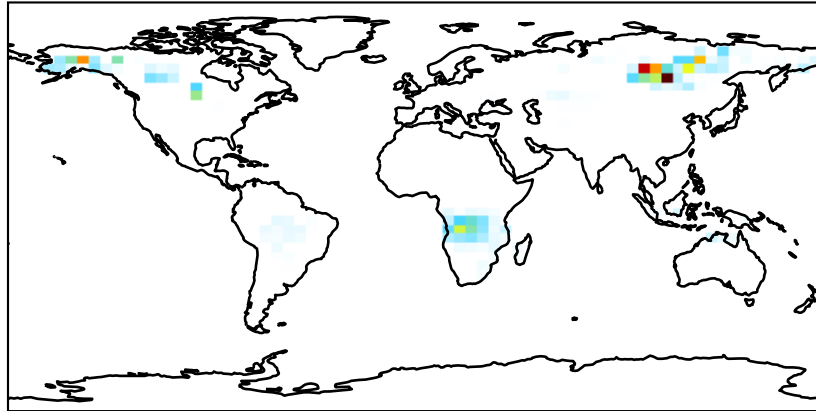
Ratio  
Dev/Ref, Fixed Range



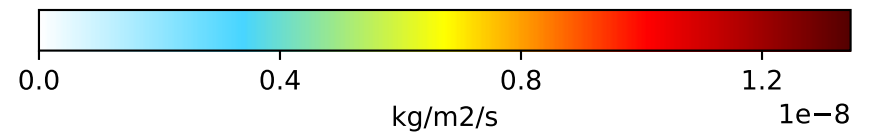
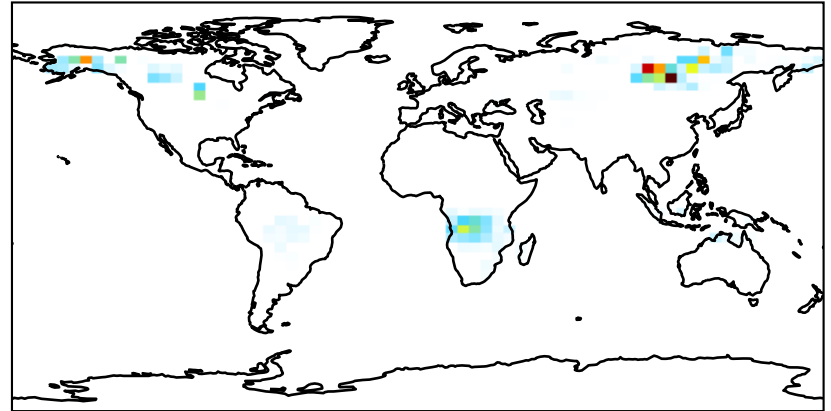
unitless

# EmisCO\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



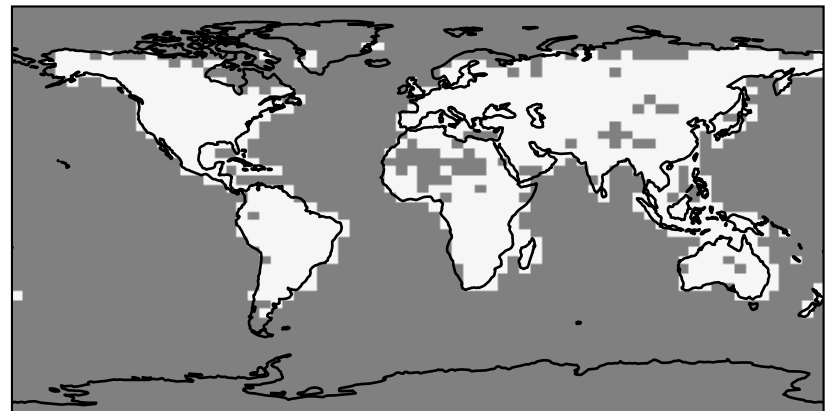
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

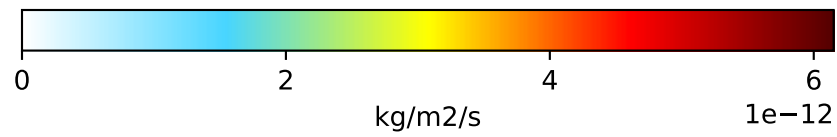
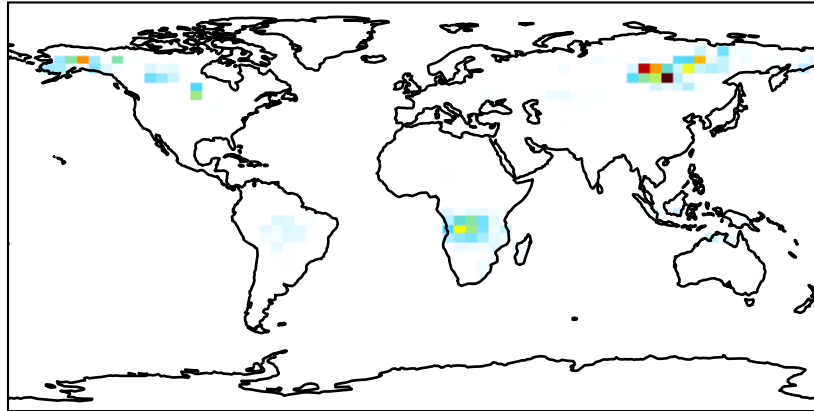


Ratio  
Dev/Ref, Fixed Range

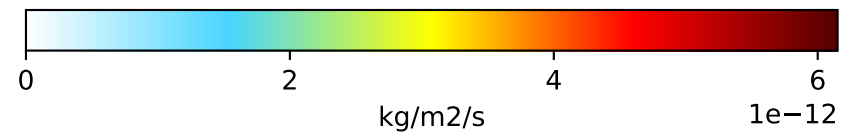
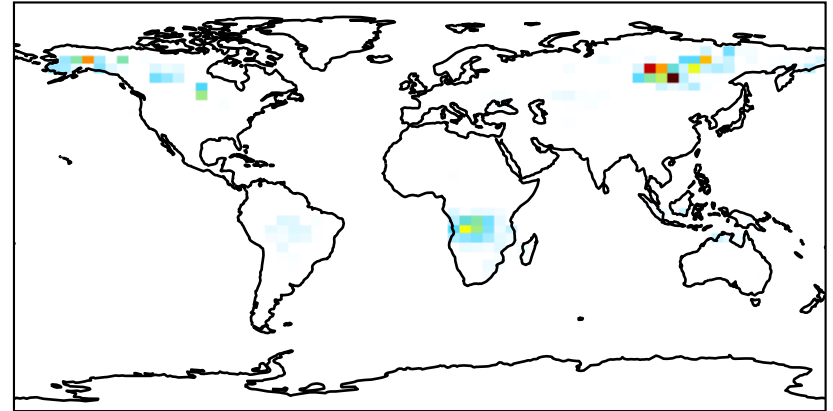


# EmisEOH\_BioBurn

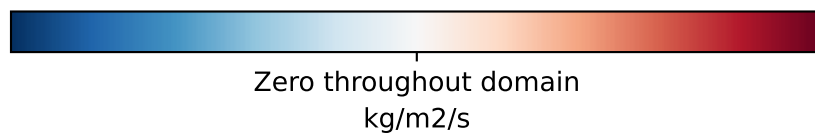
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



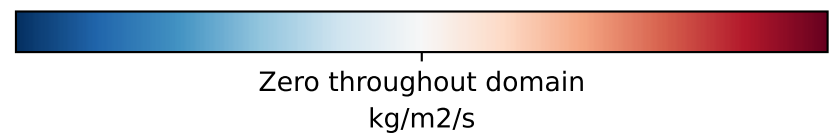
GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



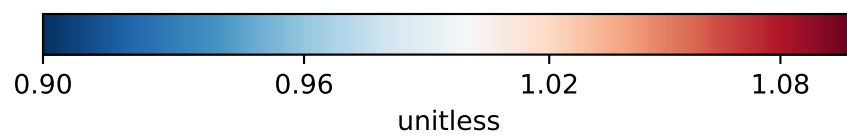
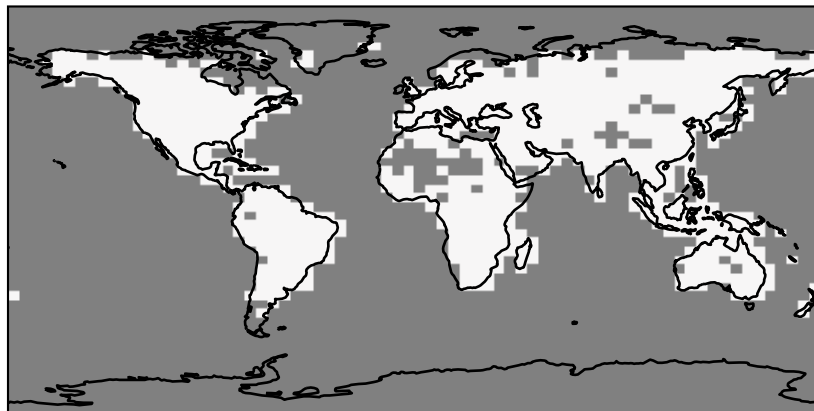
Difference  
Dev - Ref, Dynamic Range



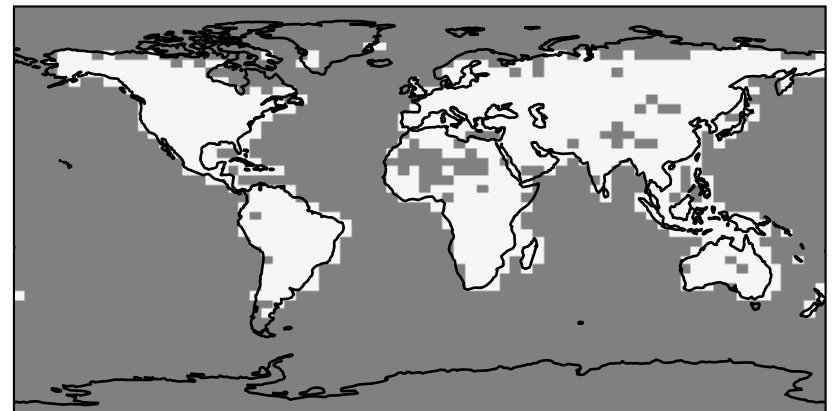
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

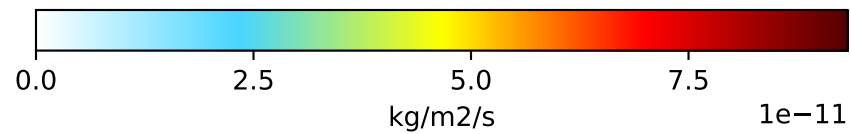
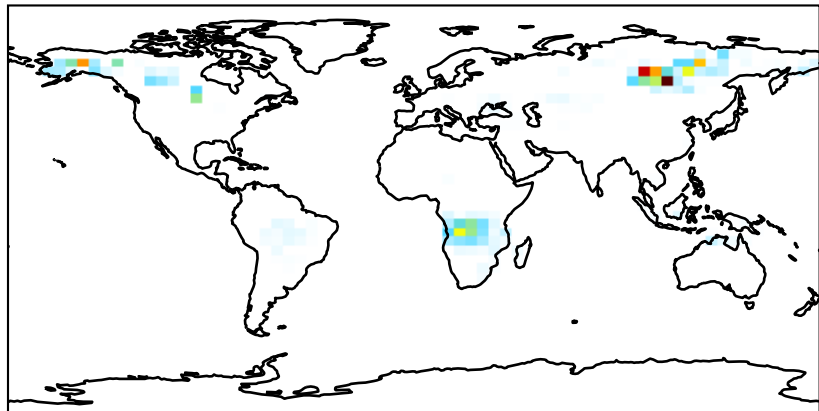


Ratio  
Dev/Ref, Fixed Range

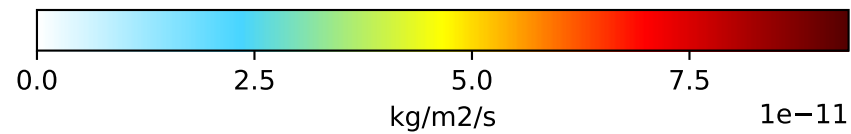
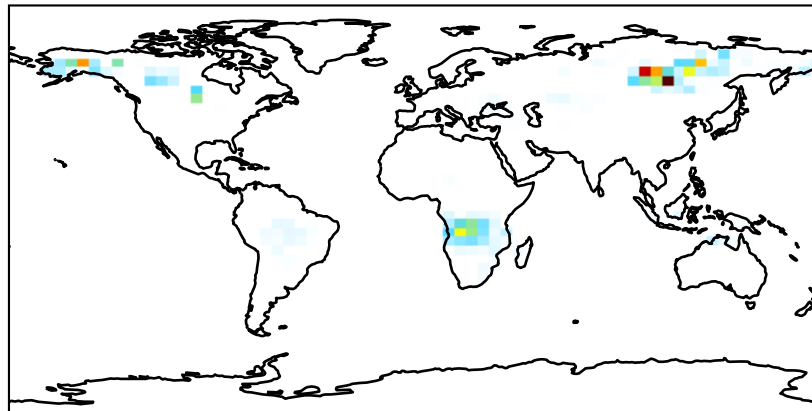


# EmisFURA\_BioBurn

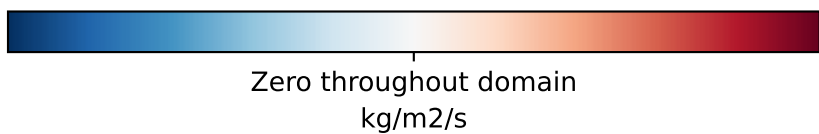
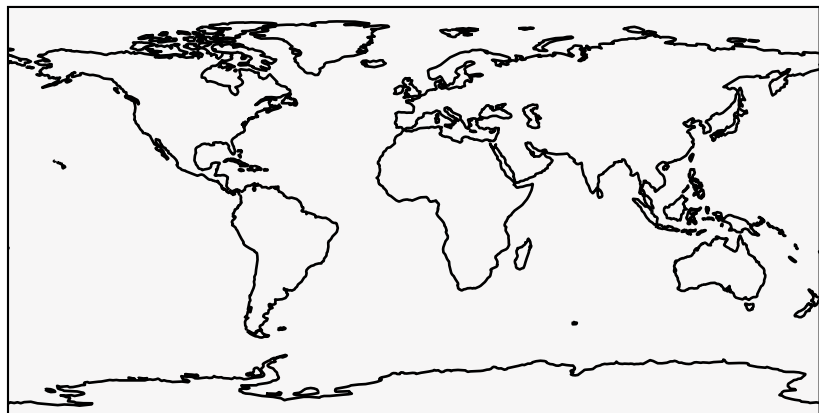
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



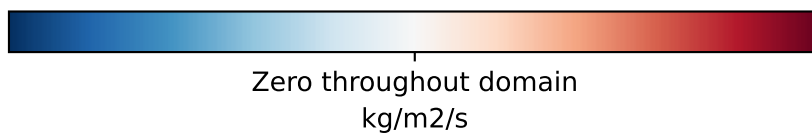
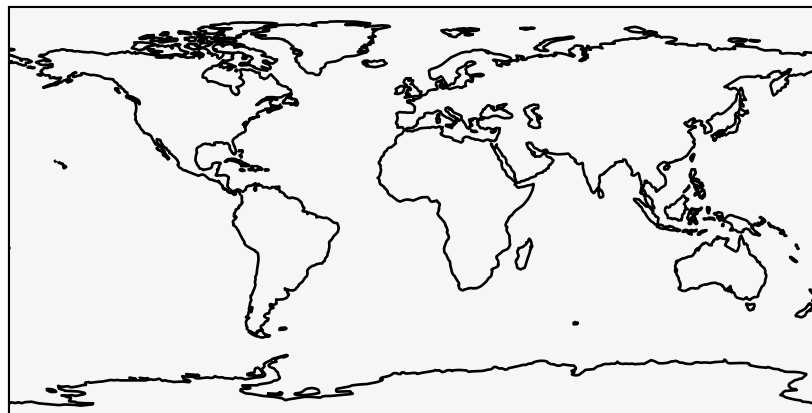
GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



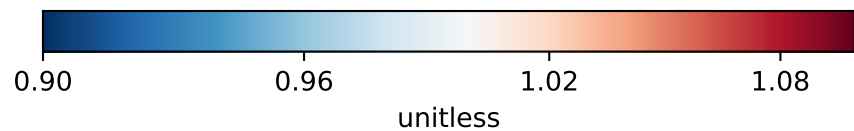
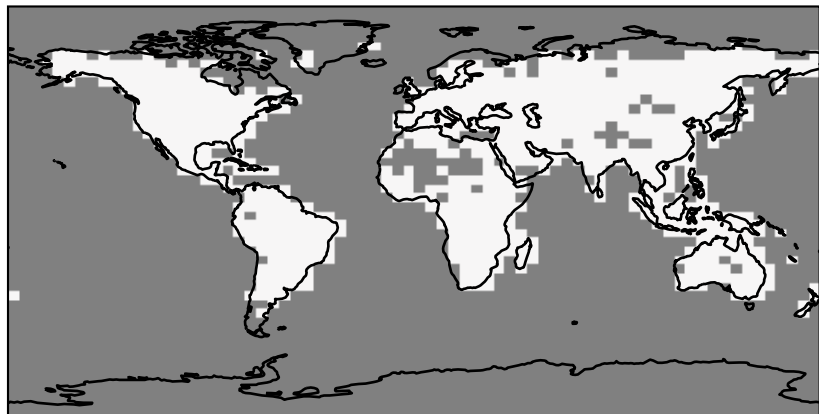
Difference  
Dev - Ref, Dynamic Range



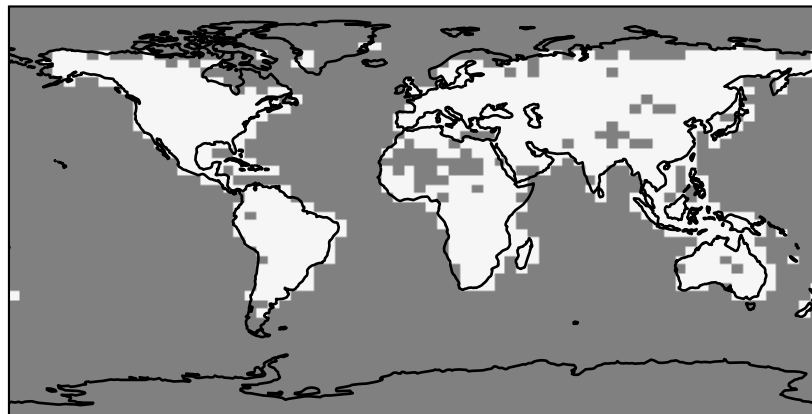
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

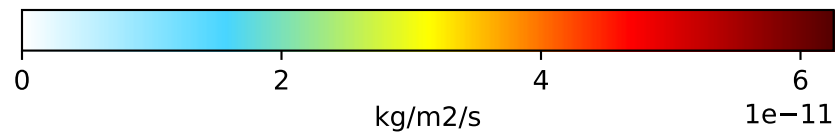
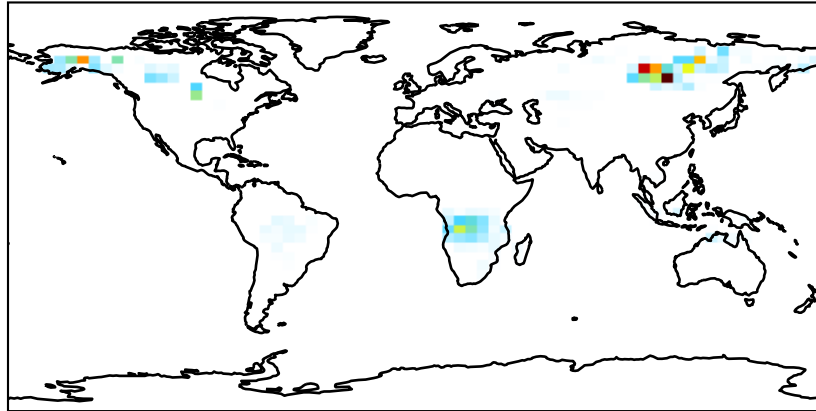


Ratio  
Dev/Ref, Fixed Range

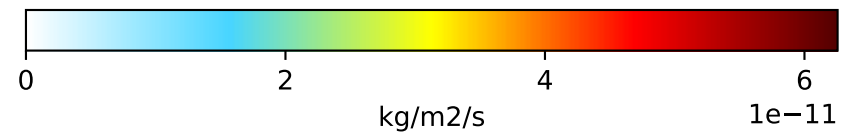
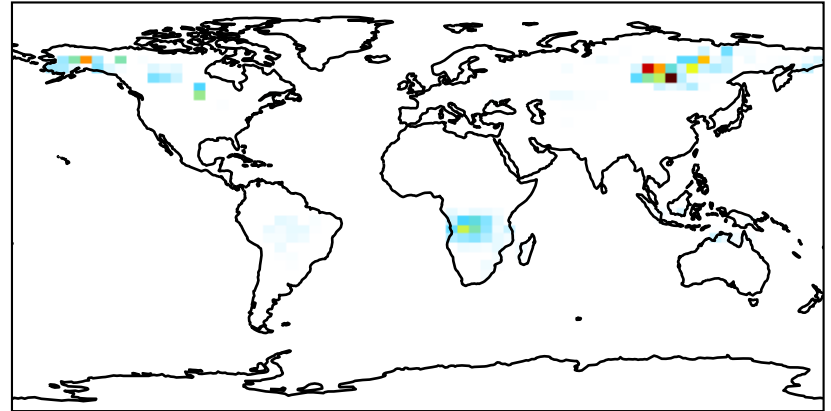


# EmisGLYX\_BioBurn

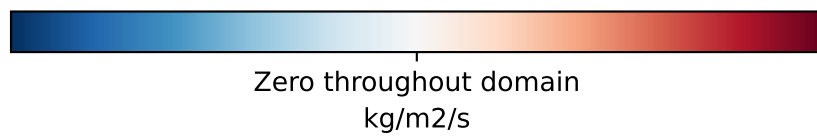
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



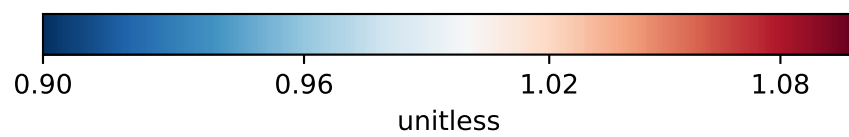
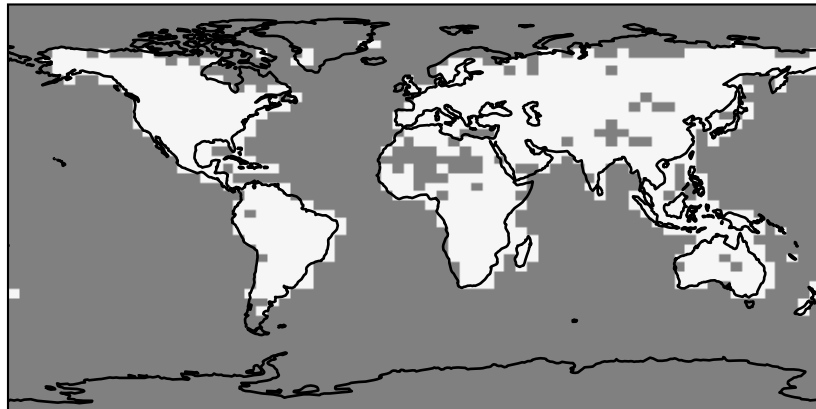
Difference  
Dev - Ref, Dynamic Range



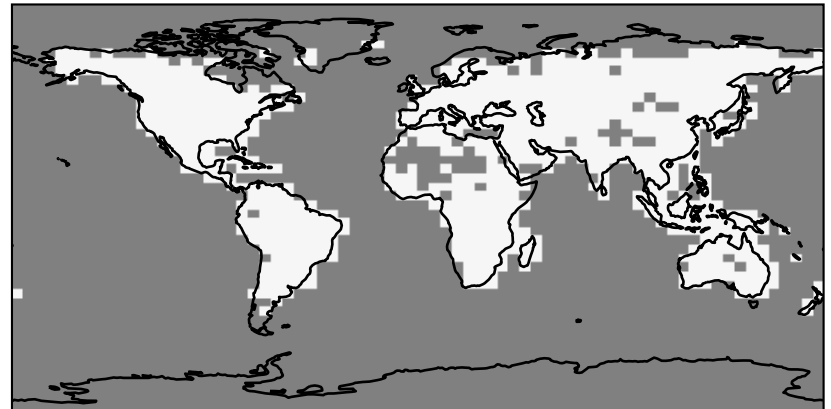
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



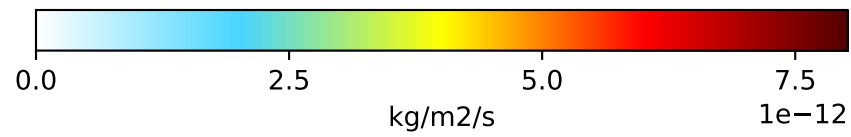
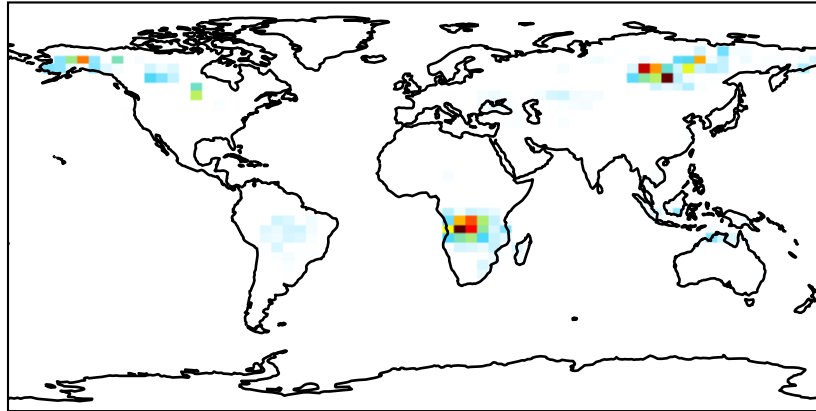
Ratio  
Dev/Ref, Fixed Range



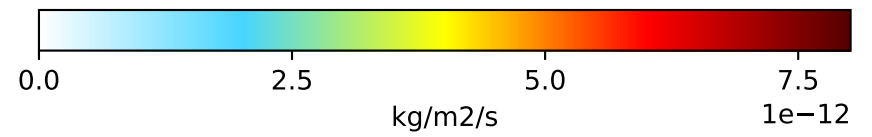
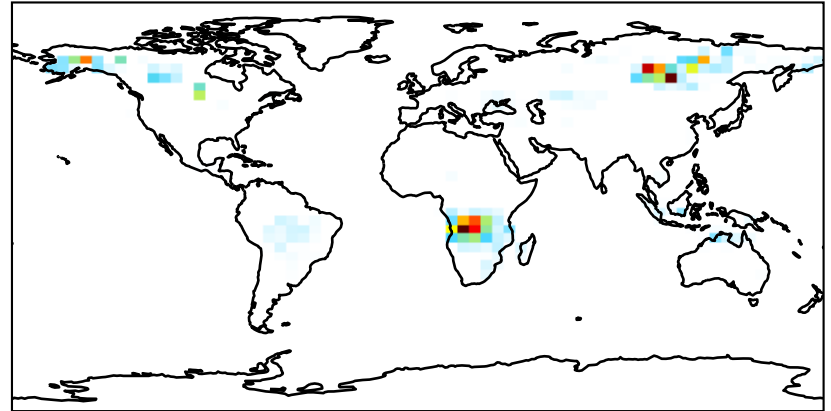


# EmisISOP\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



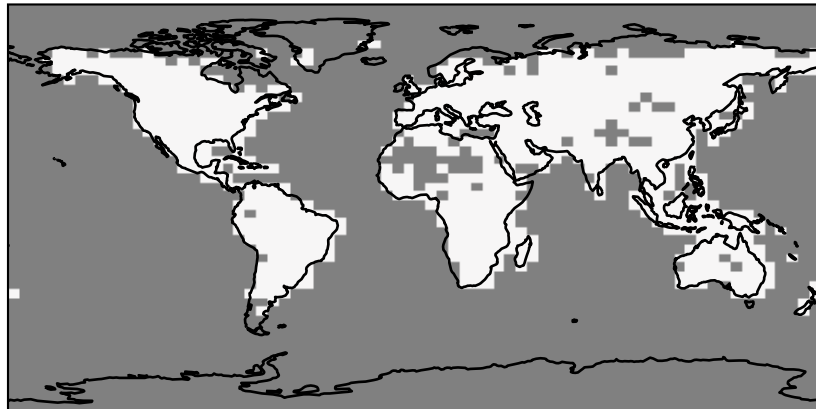
Difference  
Dev - Ref, Dynamic Range



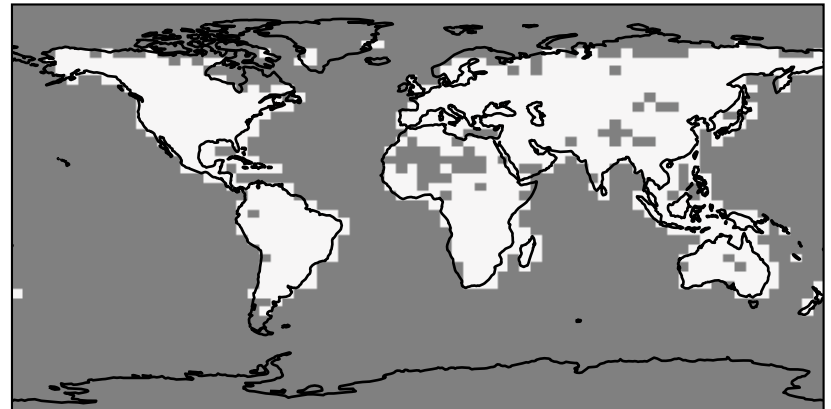
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

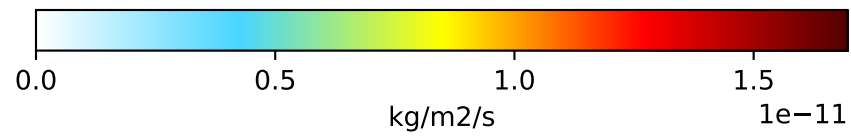
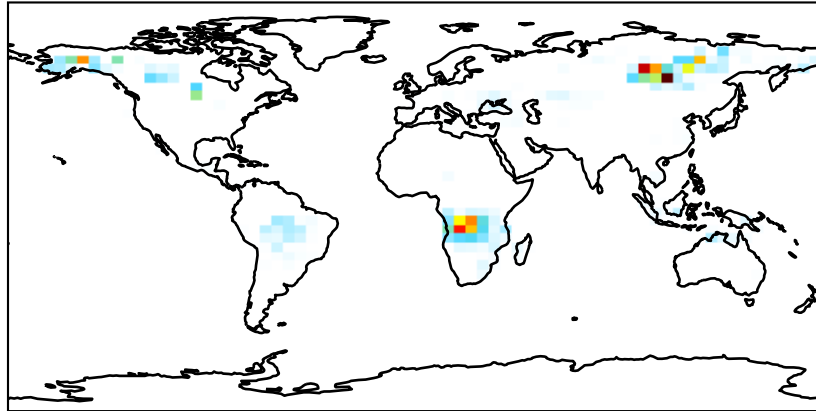


Ratio  
Dev/Ref, Fixed Range

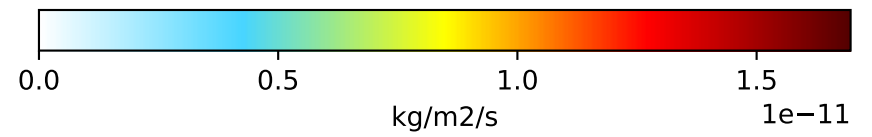
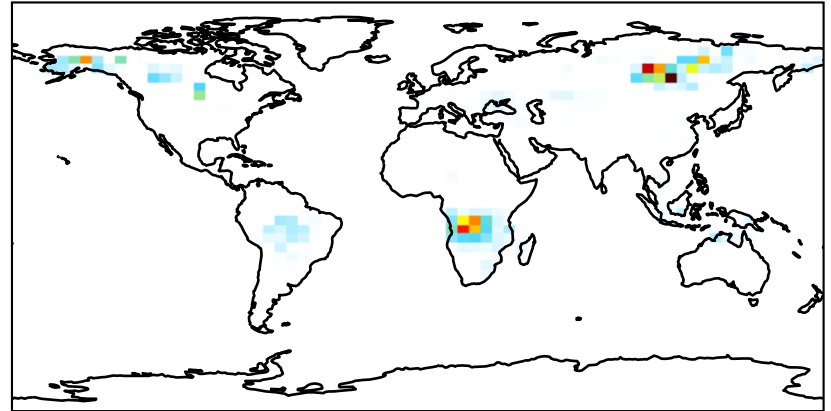


# EmisMEK\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range

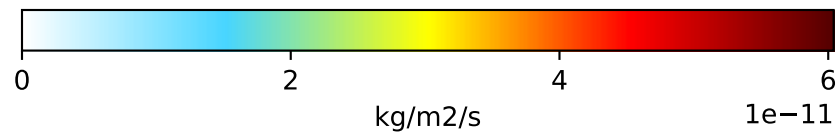
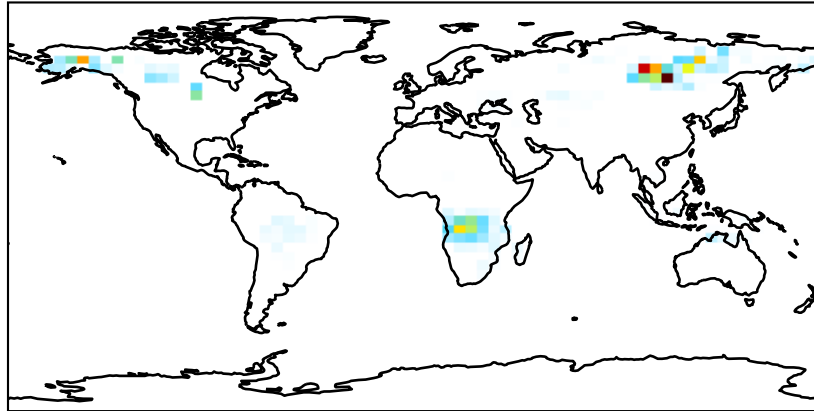


Ratio  
Dev/Ref, Fixed Range

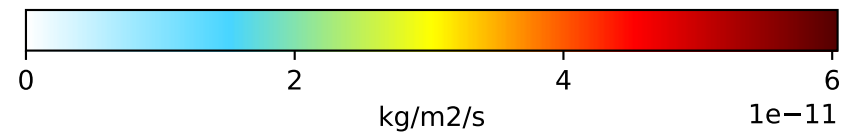
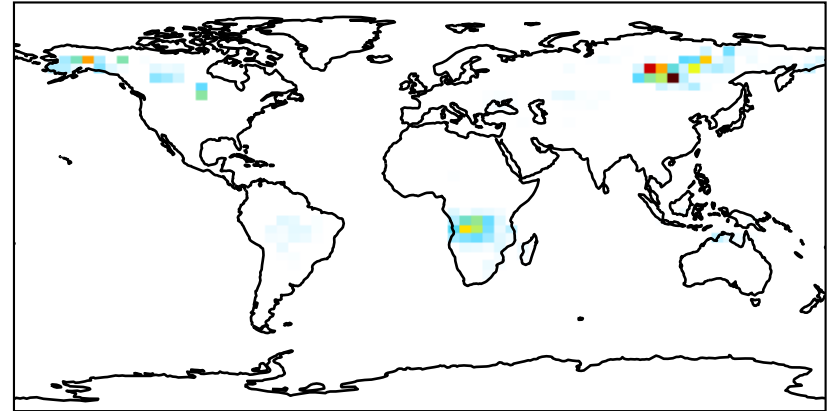


# EmisMGLY\_BioBurn

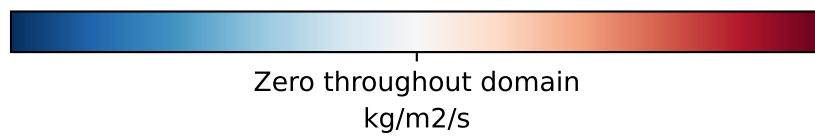
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



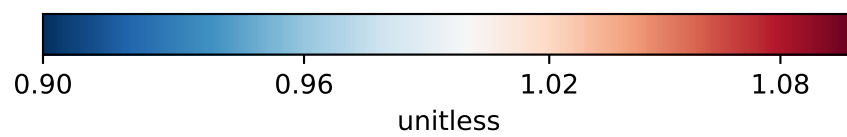
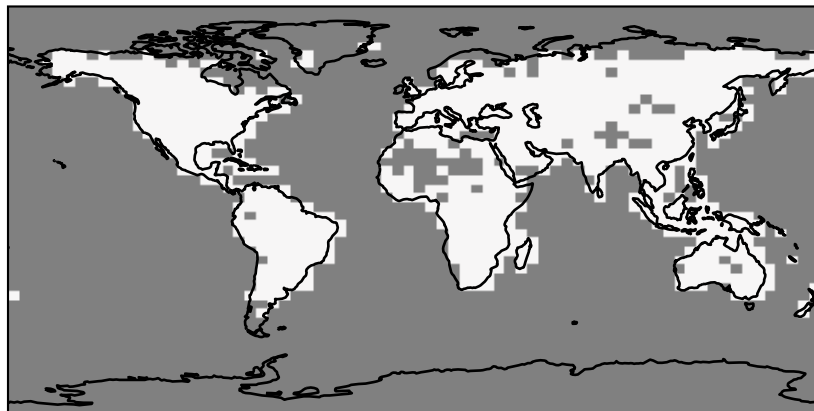
Difference  
Dev - Ref, Dynamic Range



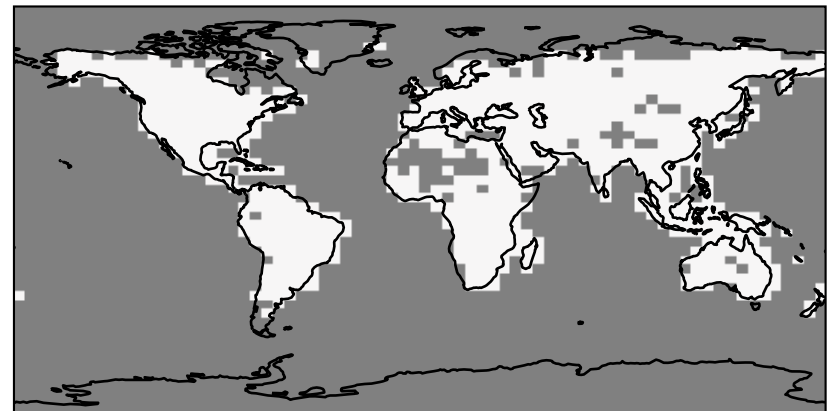
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

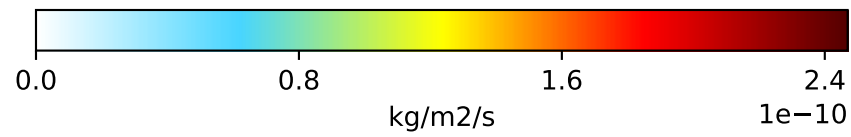
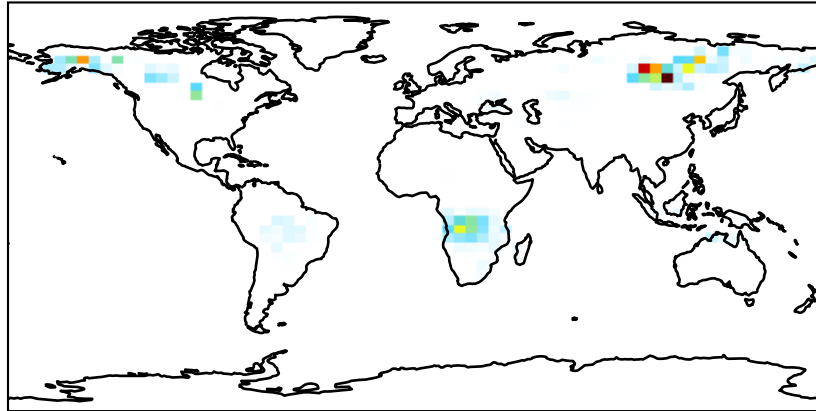


Ratio  
Dev/Ref, Fixed Range

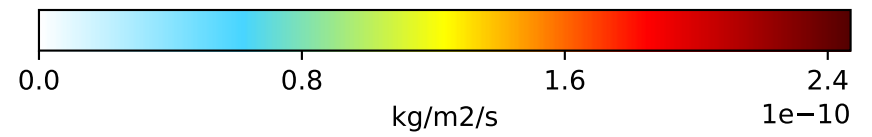
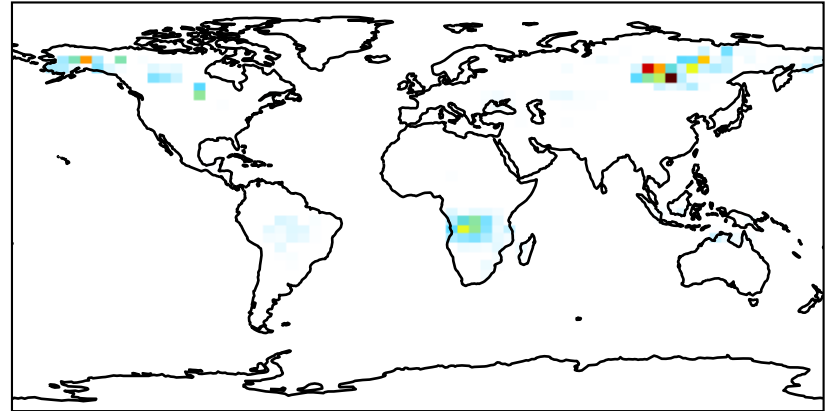


# EmisMOH\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range

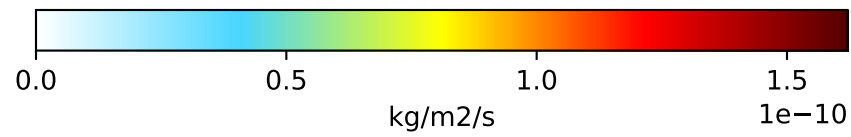
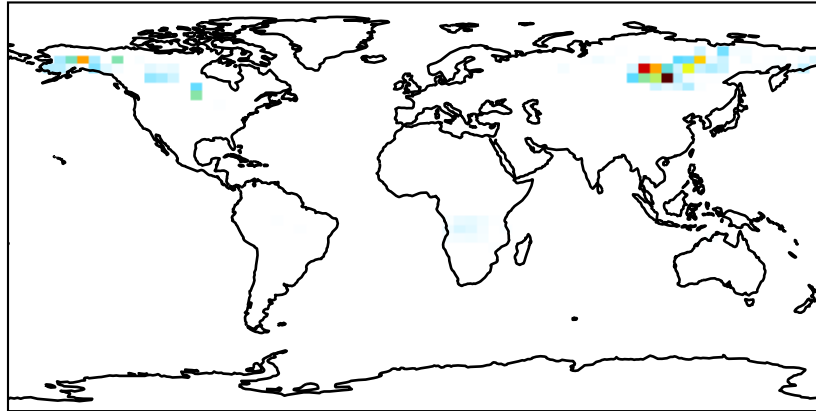


Ratio  
Dev/Ref, Fixed Range

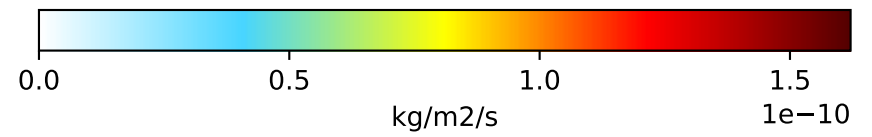
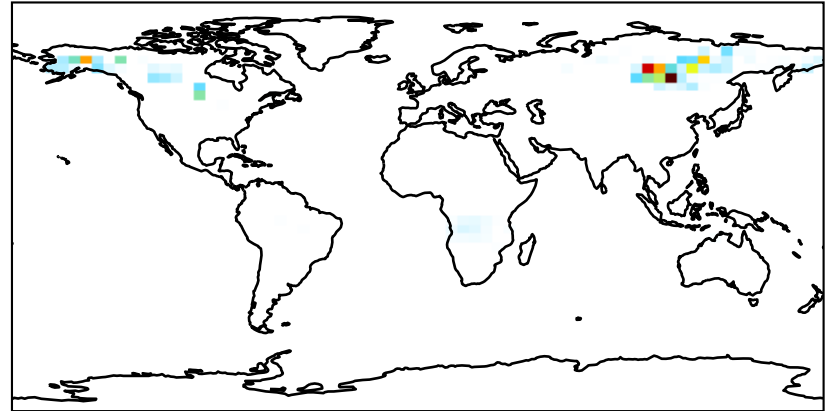


# EmisMTPA\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



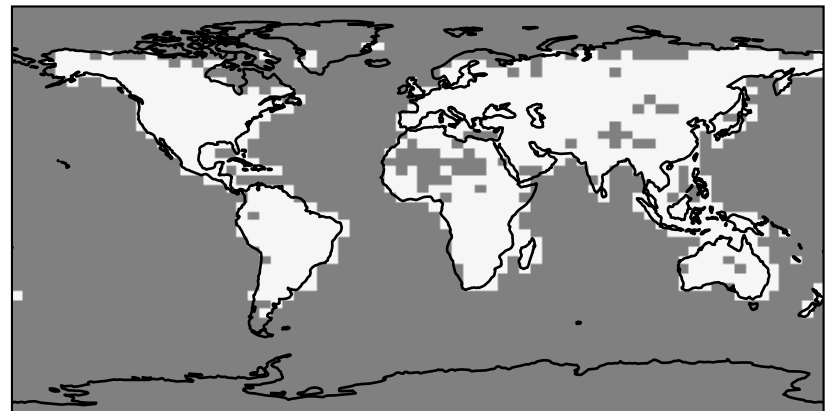
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

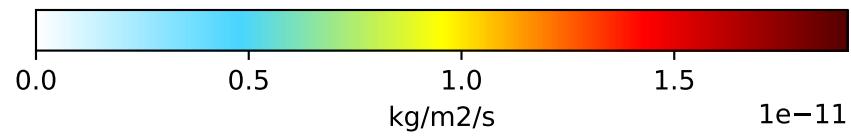
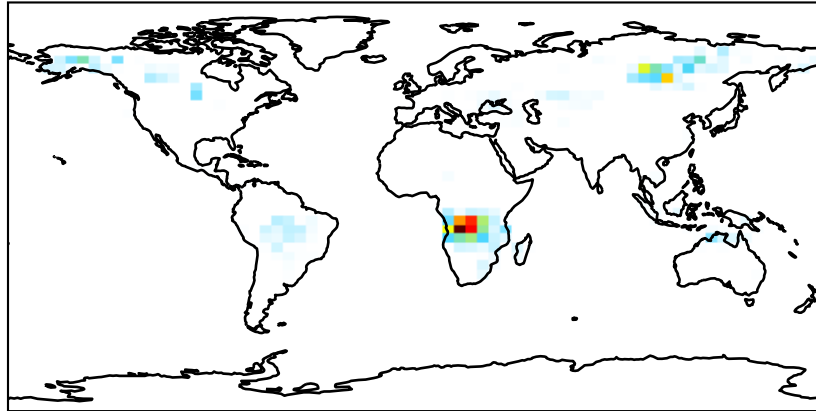


Ratio  
Dev/Ref, Fixed Range

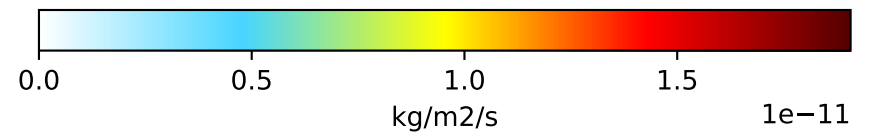
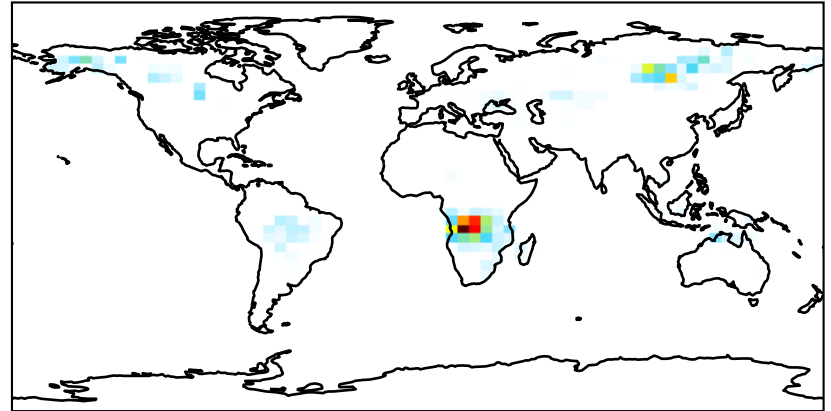


# EmisMVK\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



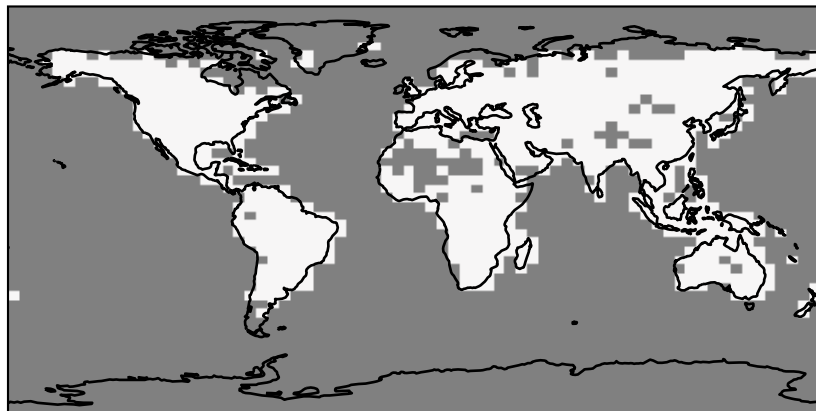
Difference  
Dev - Ref, Dynamic Range



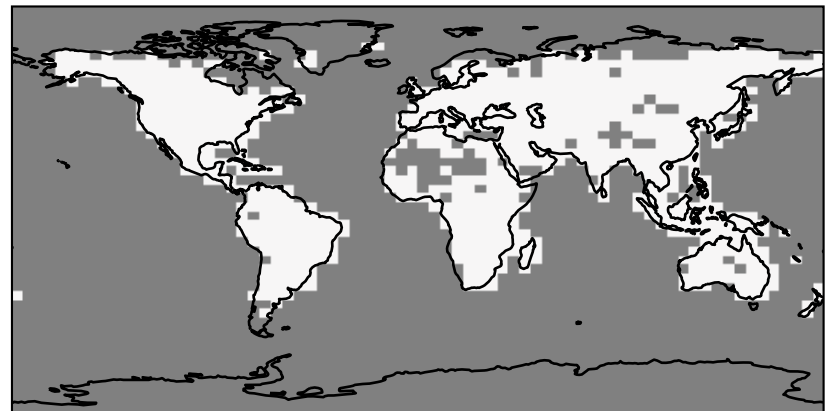
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

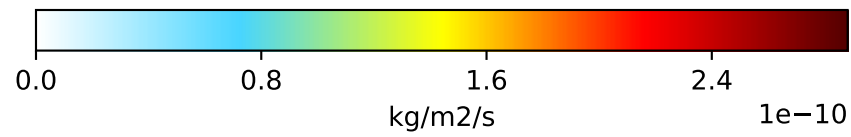
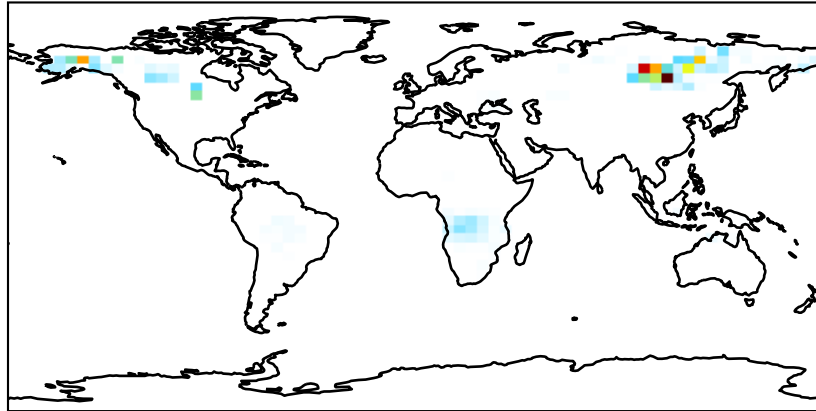


Ratio  
Dev/Ref, Fixed Range

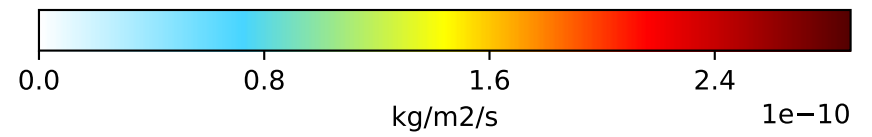
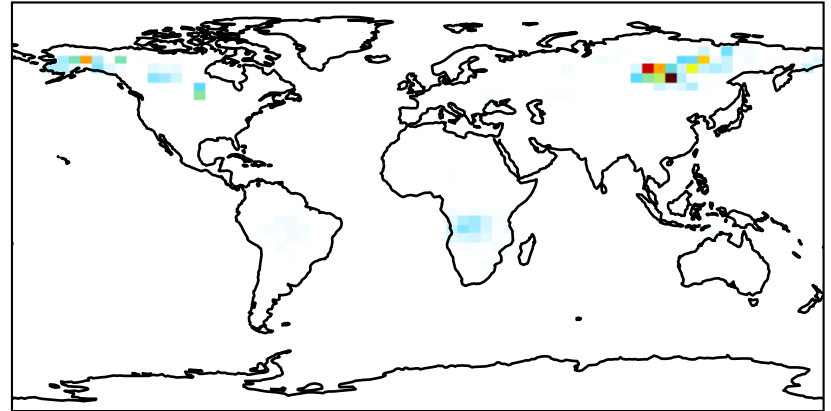


# EmisNH3\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



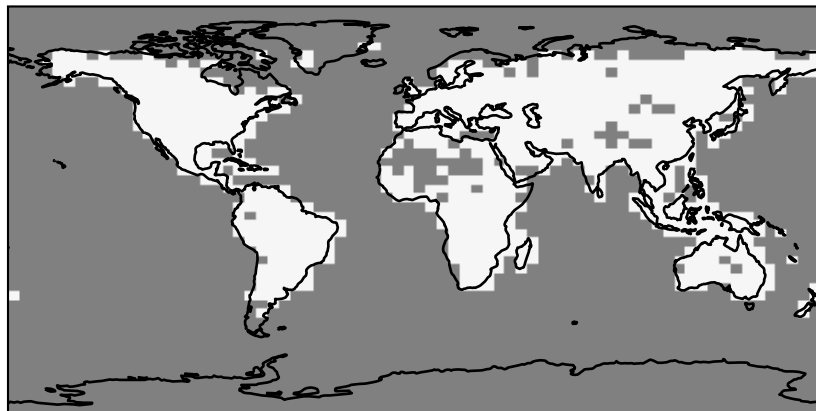
Difference  
Dev - Ref, Dynamic Range



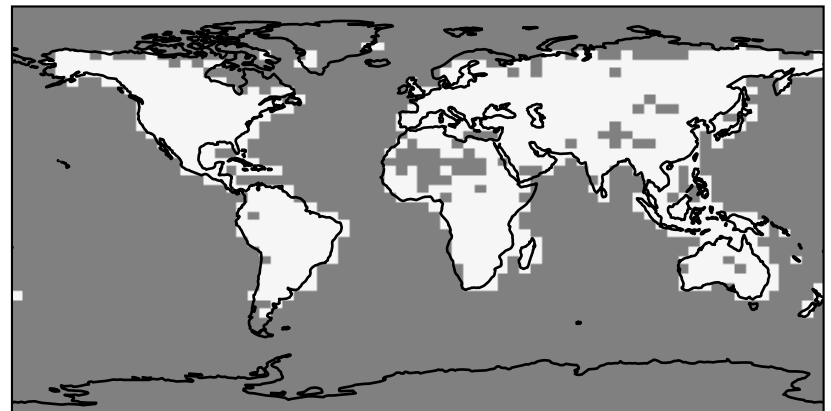
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

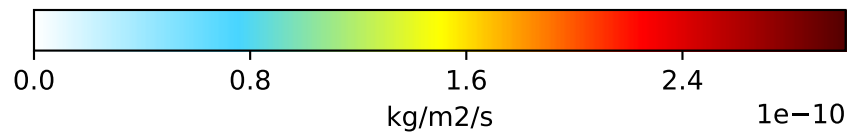
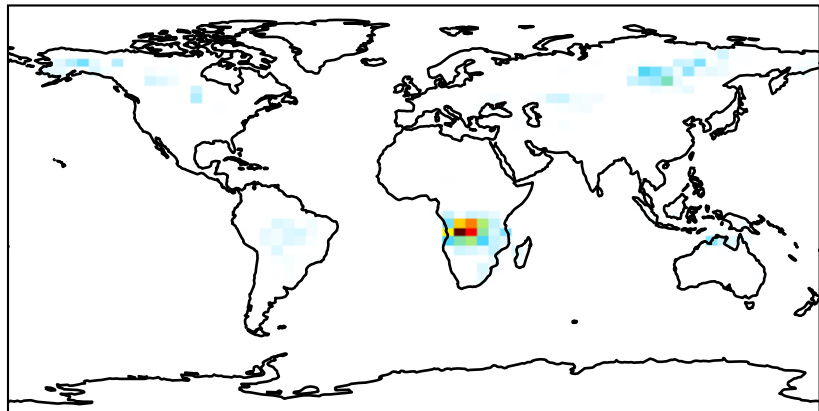


Ratio  
Dev/Ref, Fixed Range

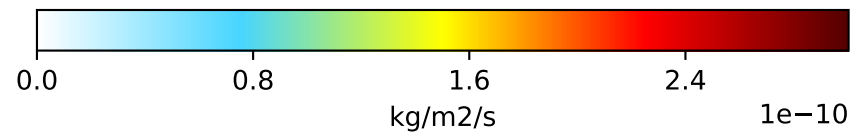
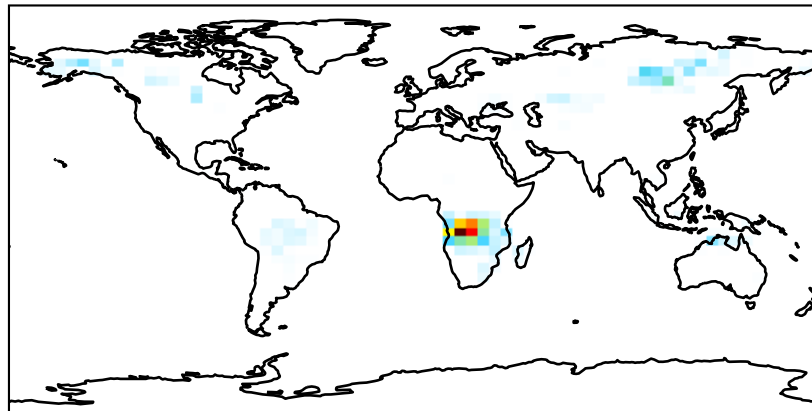


# EmisNO\_BioBurn

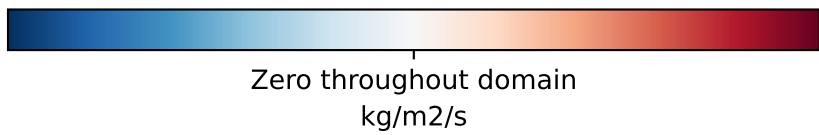
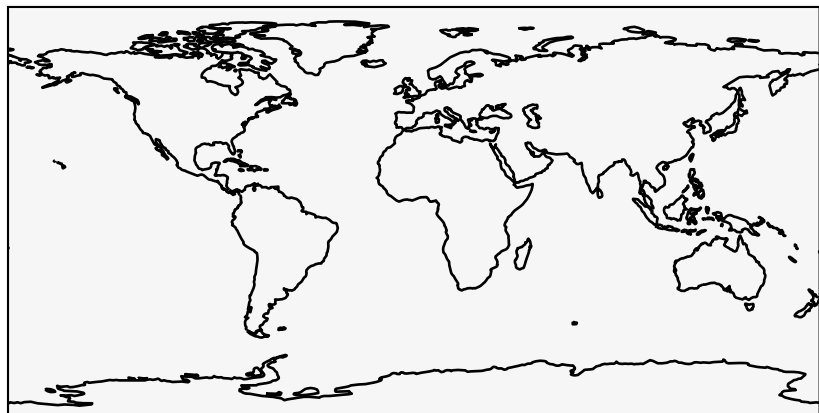
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



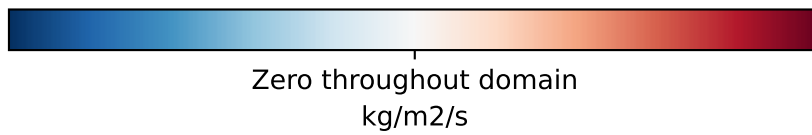
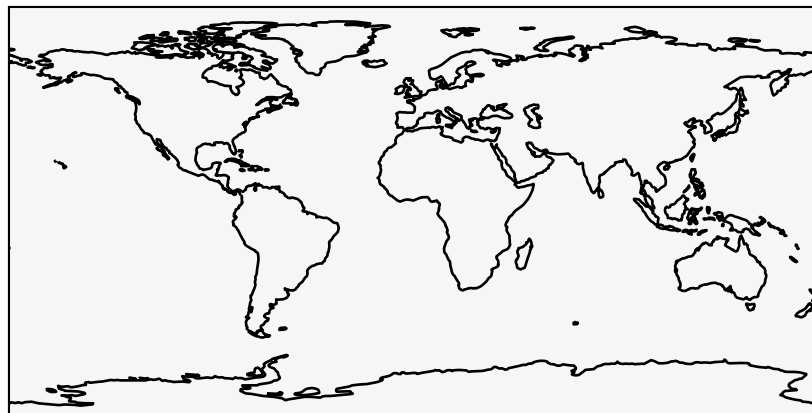
GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



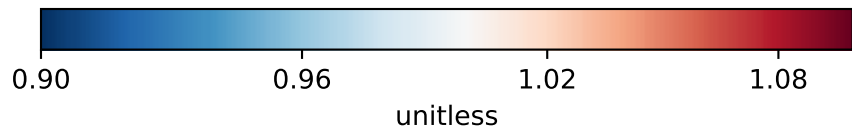
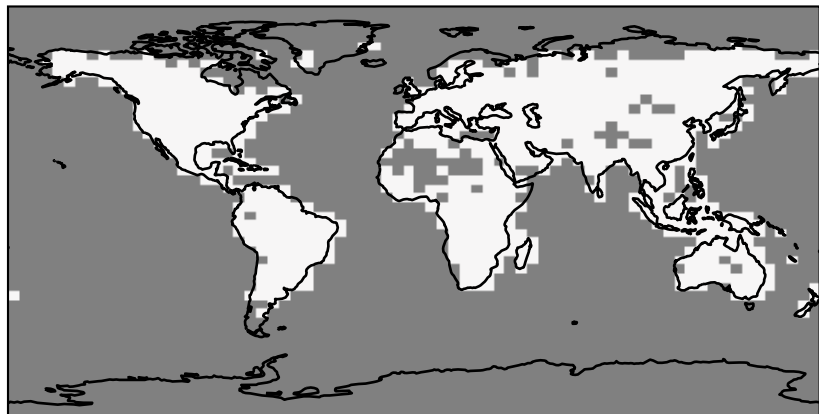
Difference  
Dev - Ref, Dynamic Range



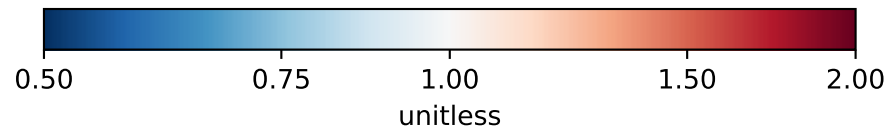
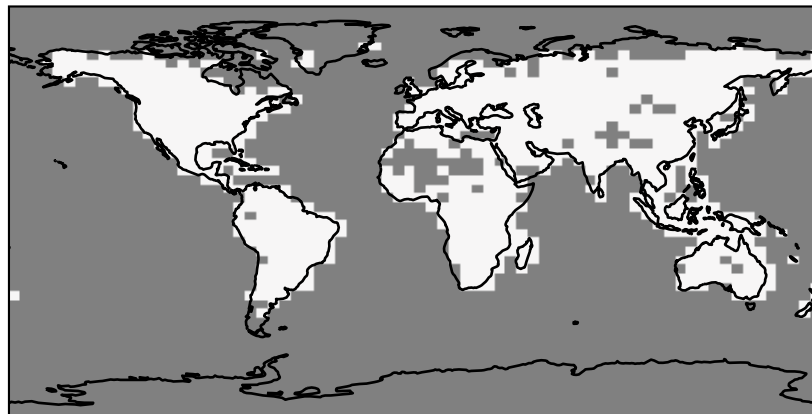
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



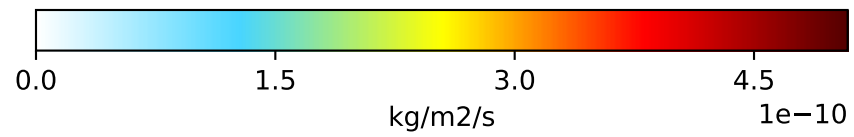
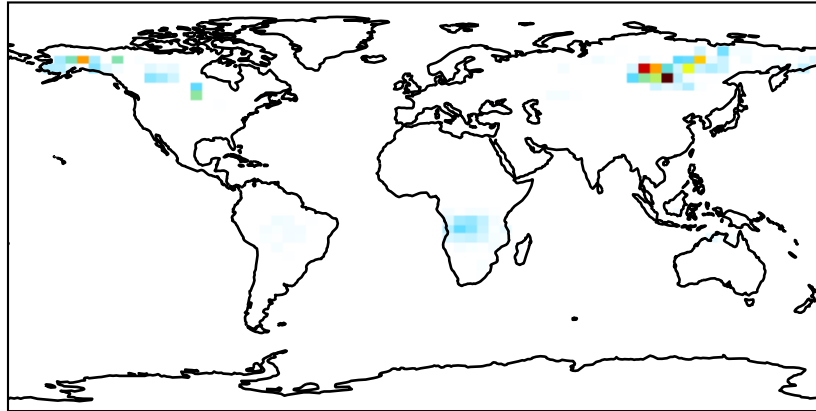
Ratio  
Dev/Ref, Fixed Range



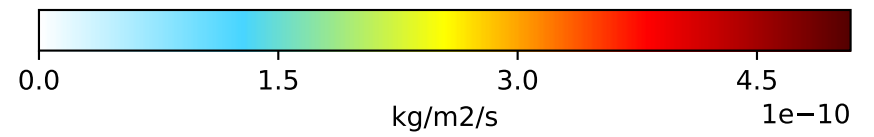
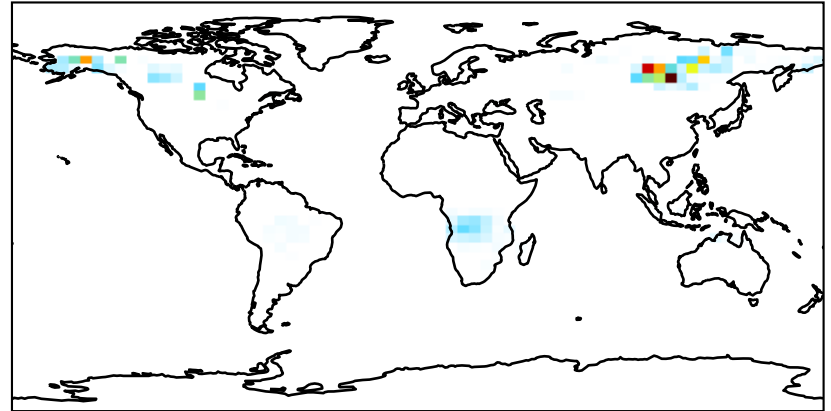


# EmisOCPI\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



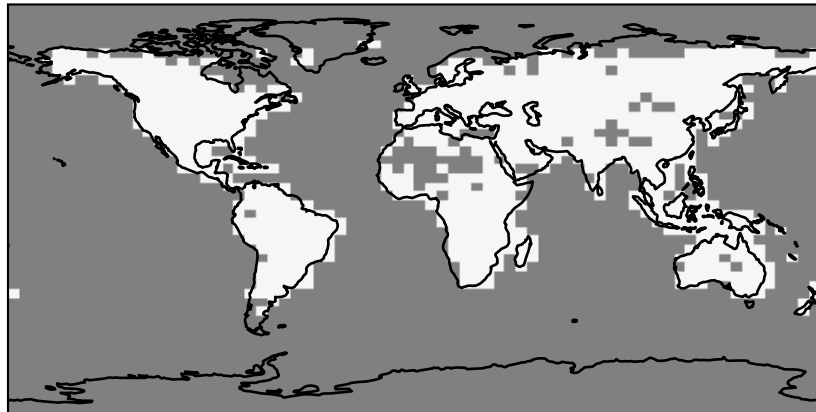
Difference  
Dev - Ref, Dynamic Range



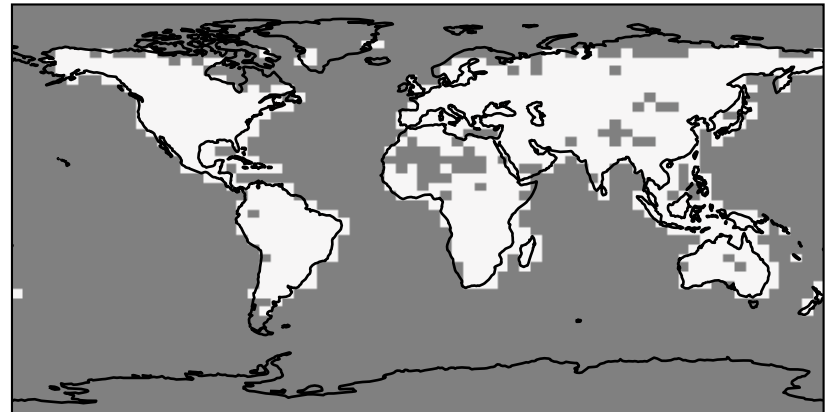
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

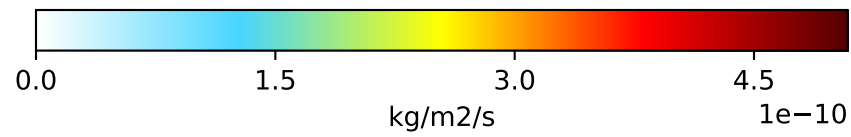
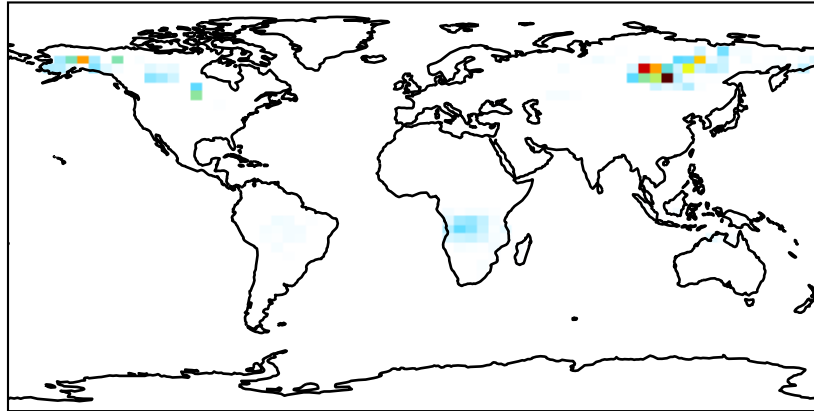


Ratio  
Dev/Ref, Fixed Range

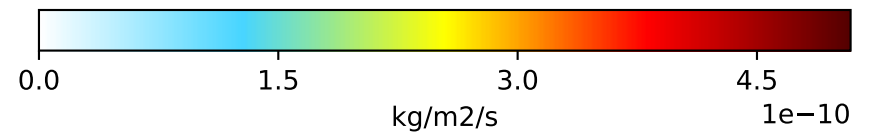
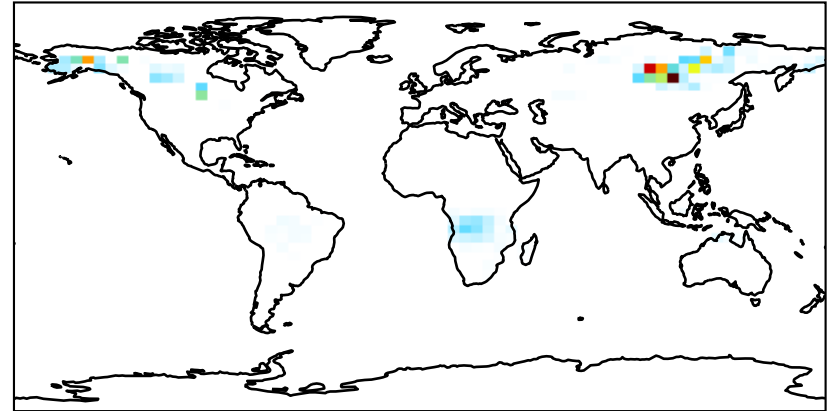


# EmisOCPO\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



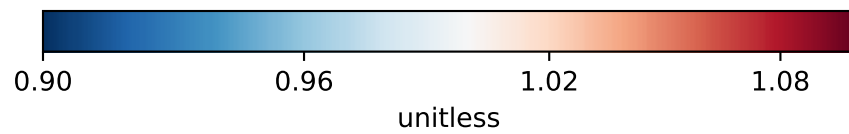
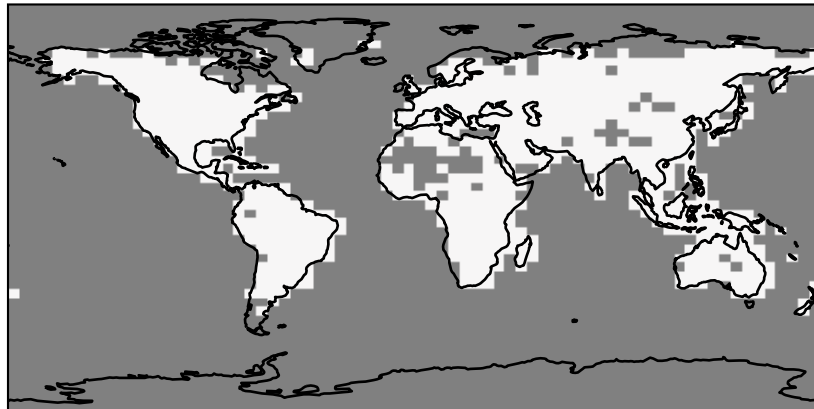
Difference  
Dev - Ref, Dynamic Range



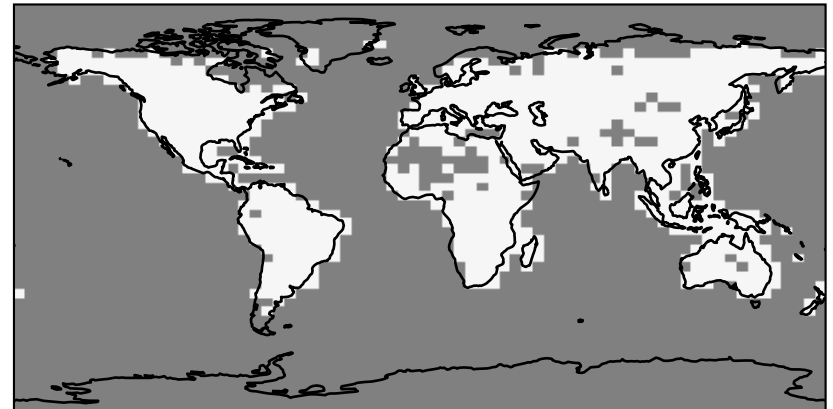
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

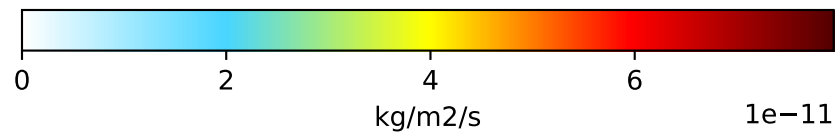
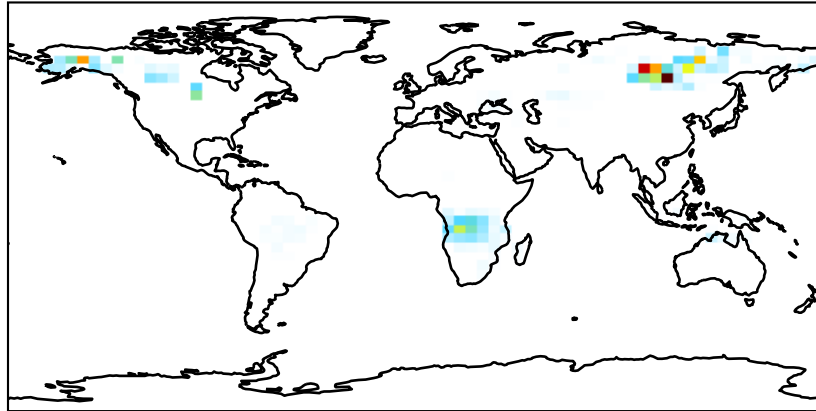


Ratio  
Dev/Ref, Fixed Range

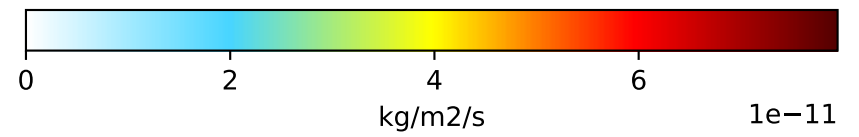
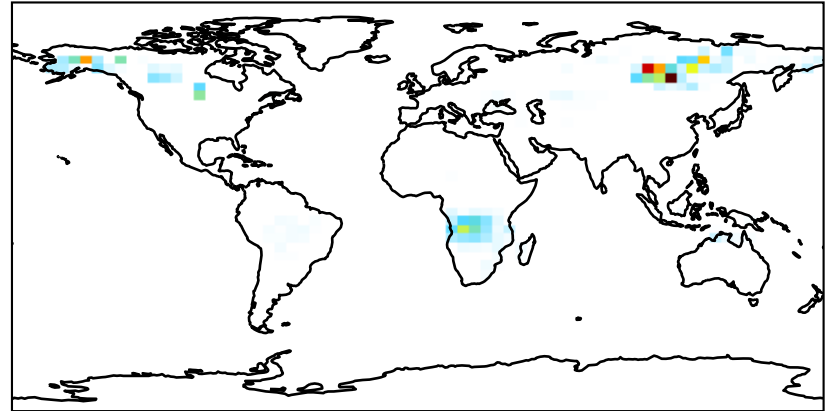


# EmisPHEN\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



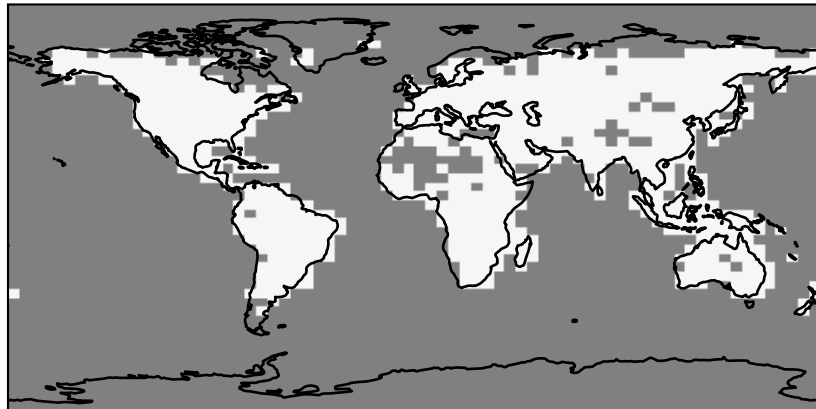
Difference  
Dev - Ref, Dynamic Range



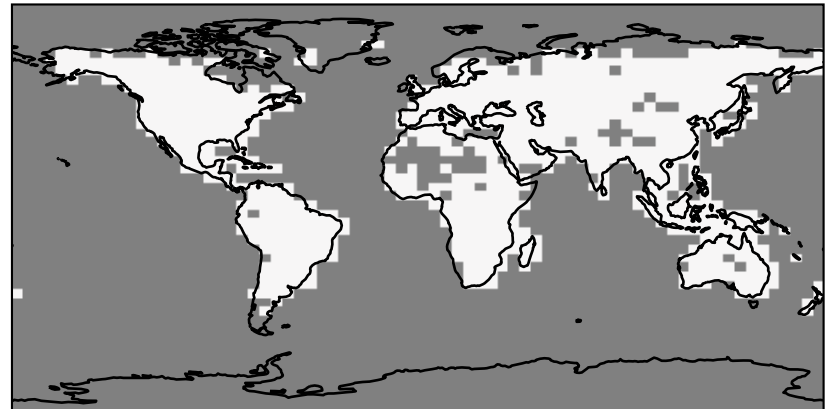
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

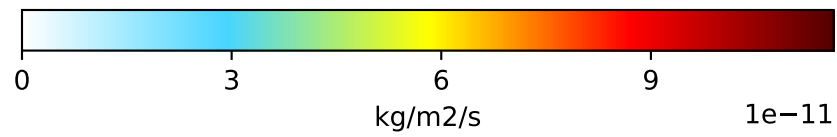
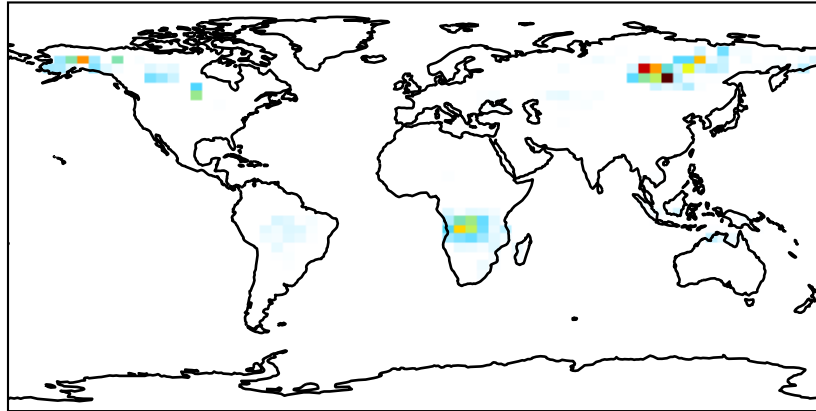


Ratio  
Dev/Ref, Fixed Range

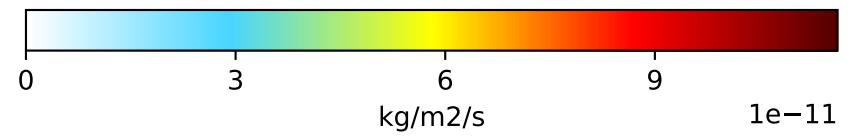
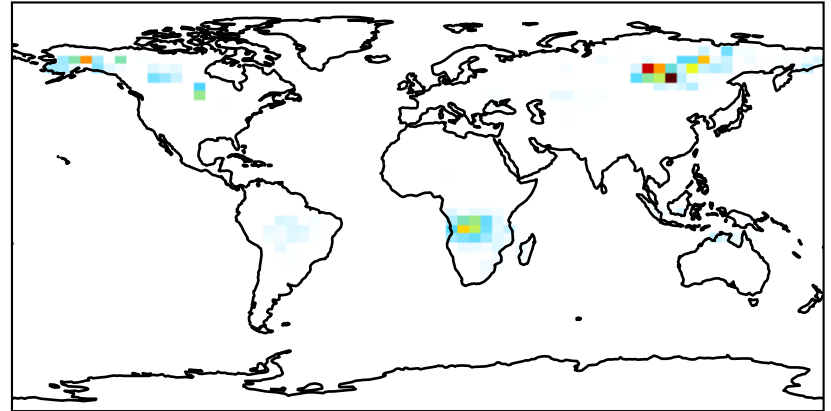


# EmisPRPE\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



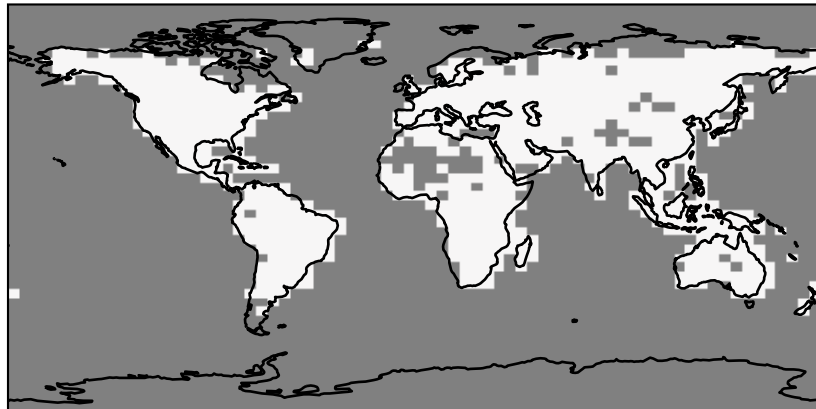
Difference  
Dev - Ref, Dynamic Range



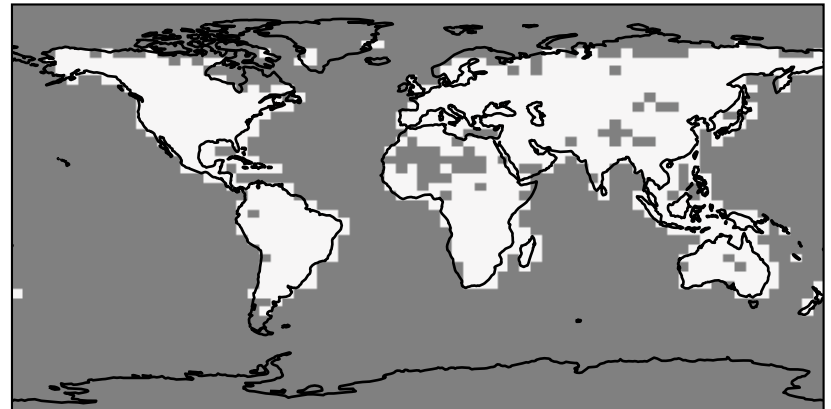
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

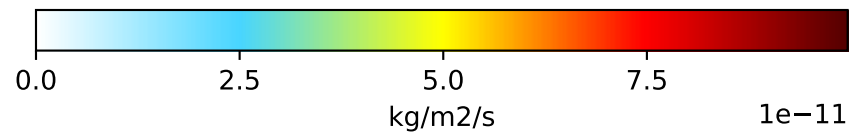
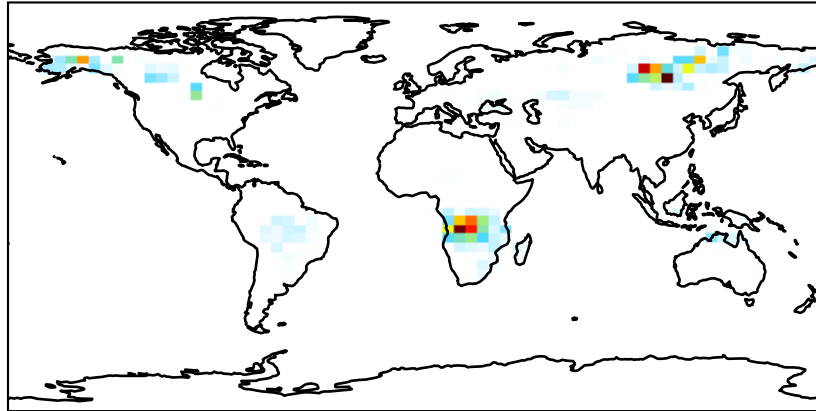


Ratio  
Dev/Ref, Fixed Range

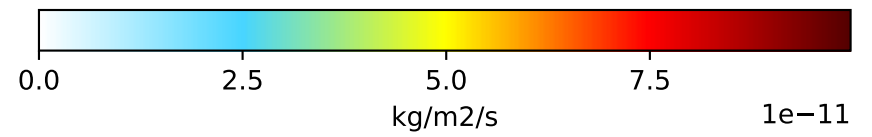
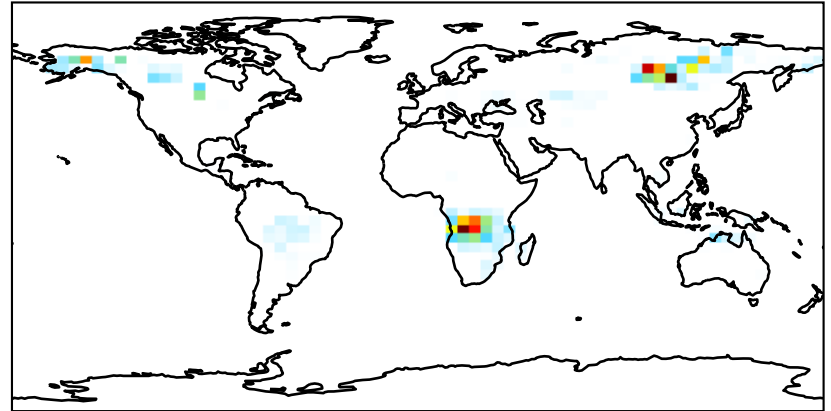


# EmisRCHO\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



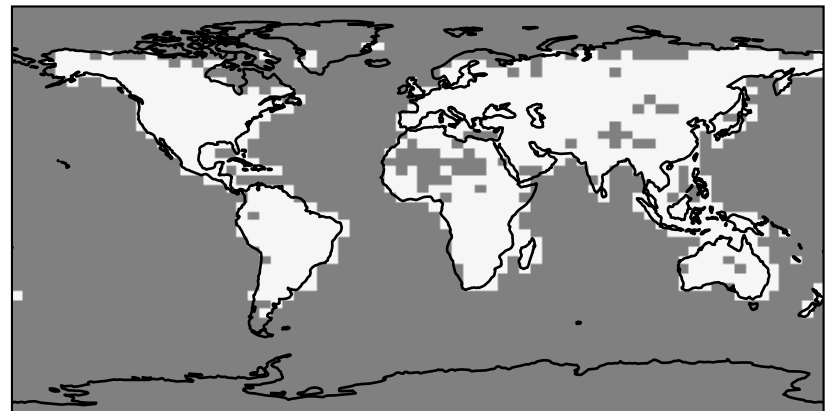
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

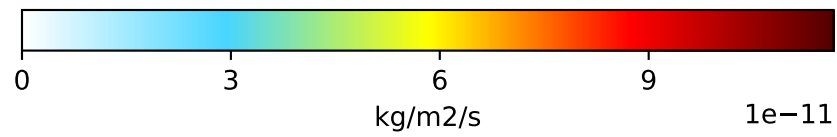
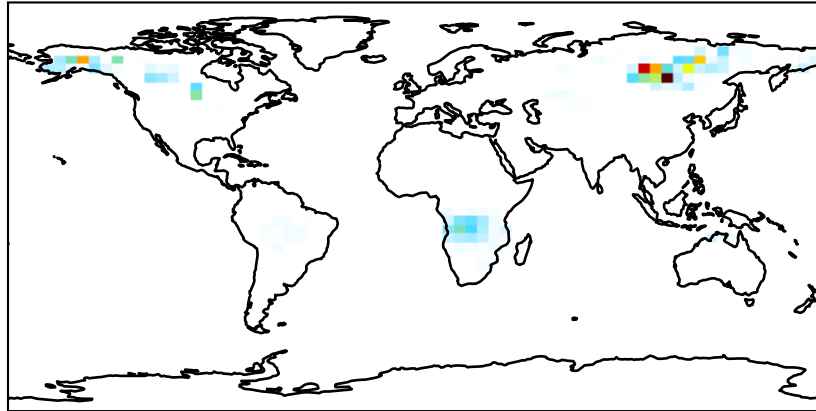


Ratio  
Dev/Ref, Fixed Range

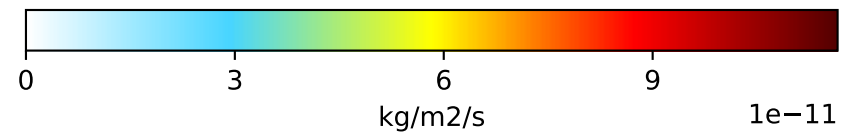
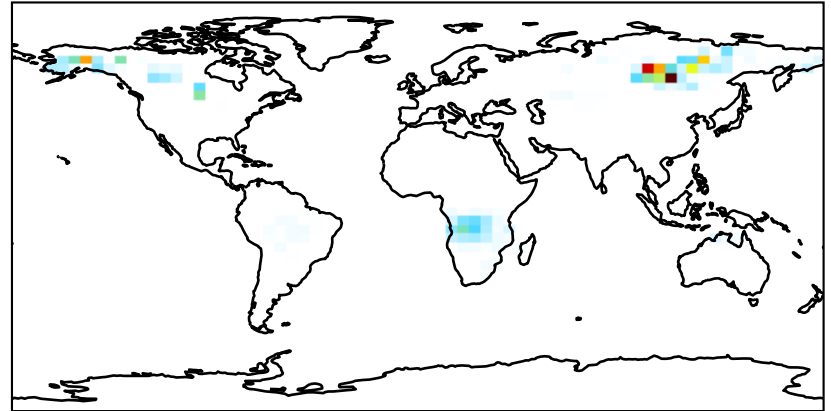


# EmisSO2\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



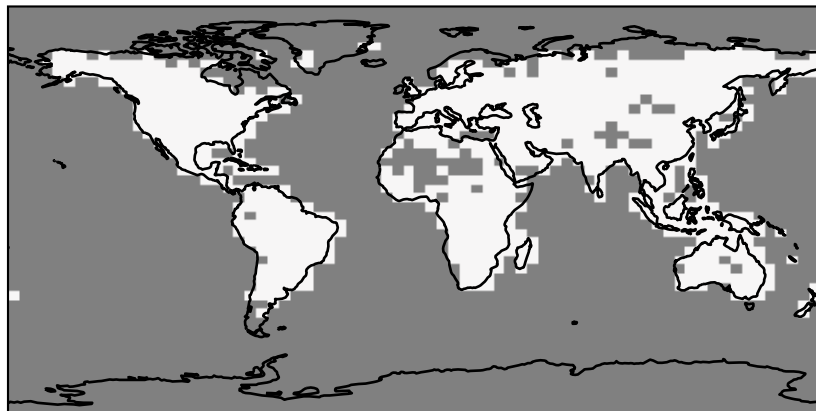
Difference  
Dev - Ref, Dynamic Range



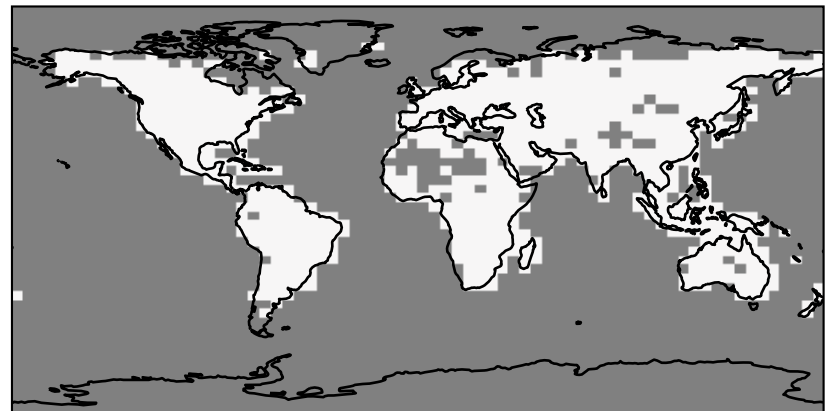
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

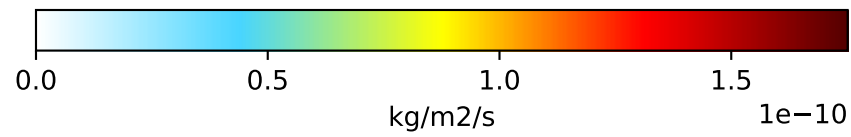
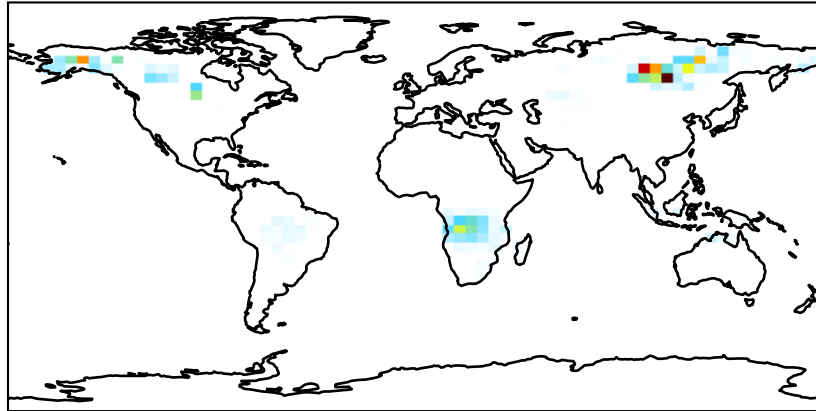


Ratio  
Dev/Ref, Fixed Range

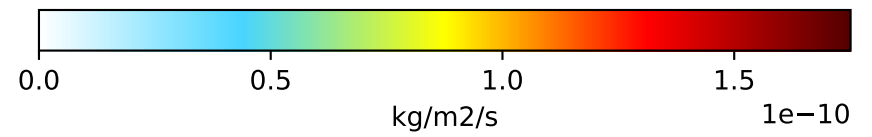
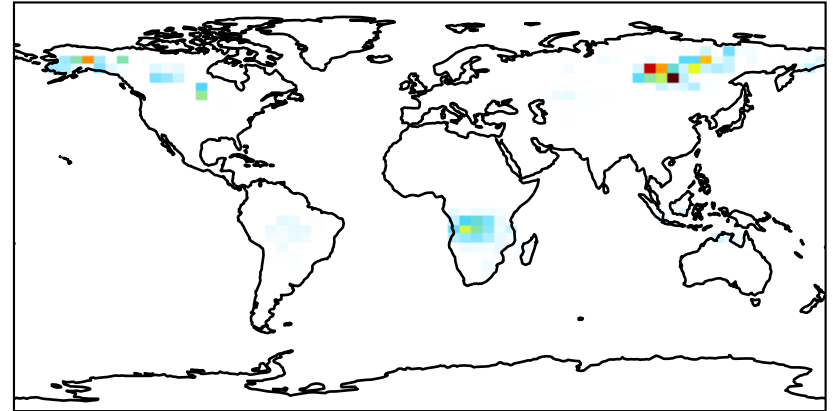


# EmisSOAP\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



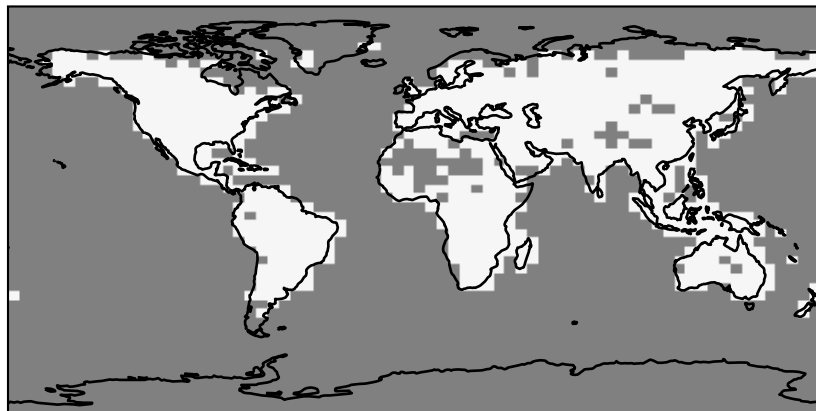
Difference  
Dev - Ref, Dynamic Range



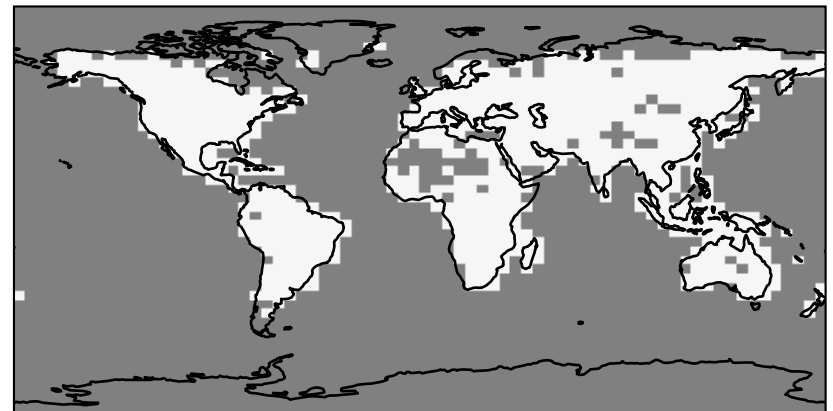
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

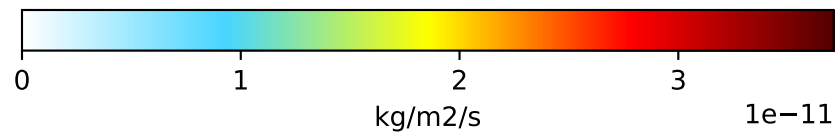
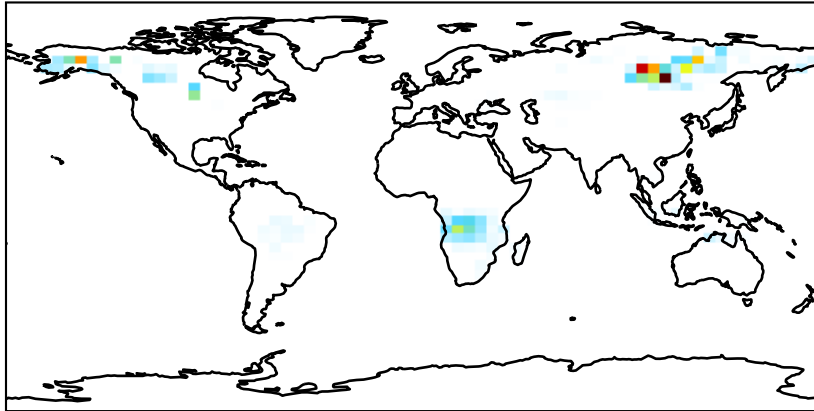


Ratio  
Dev/Ref, Fixed Range

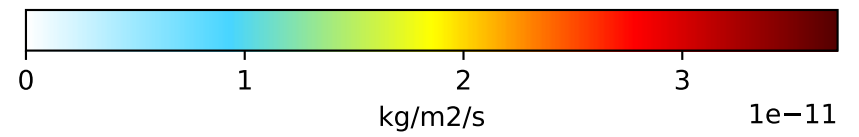
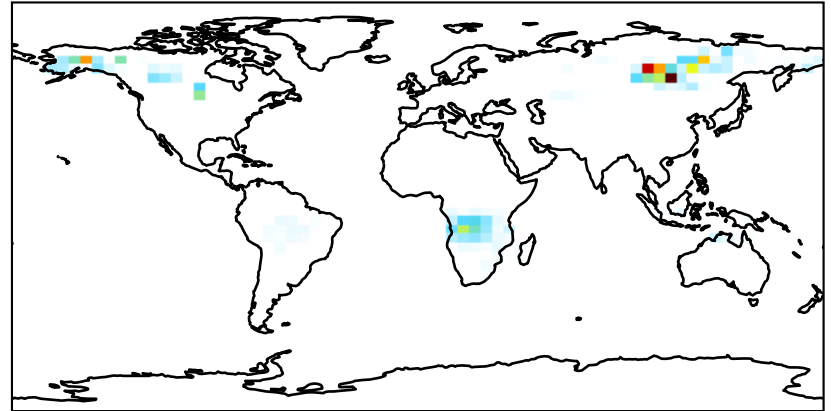


# EmisTOLU\_BioBurn

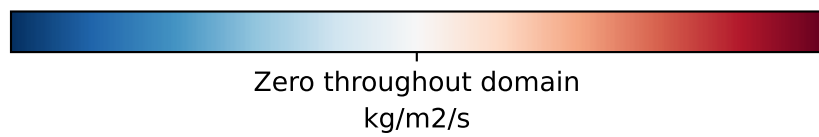
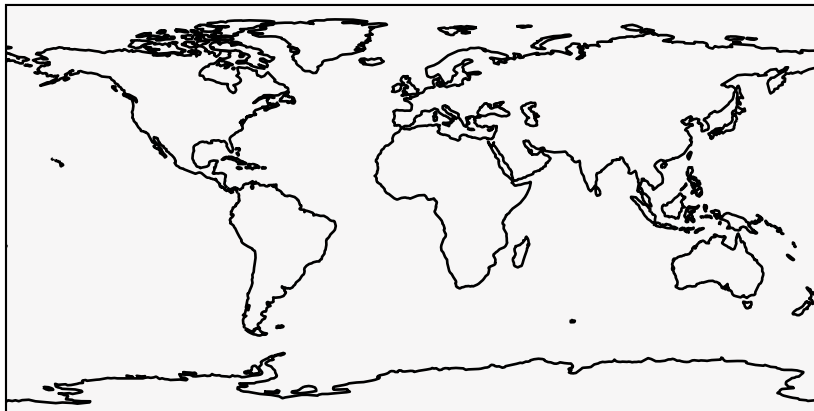
GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



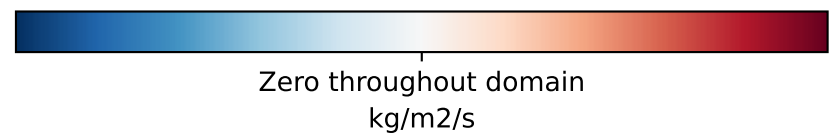
GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



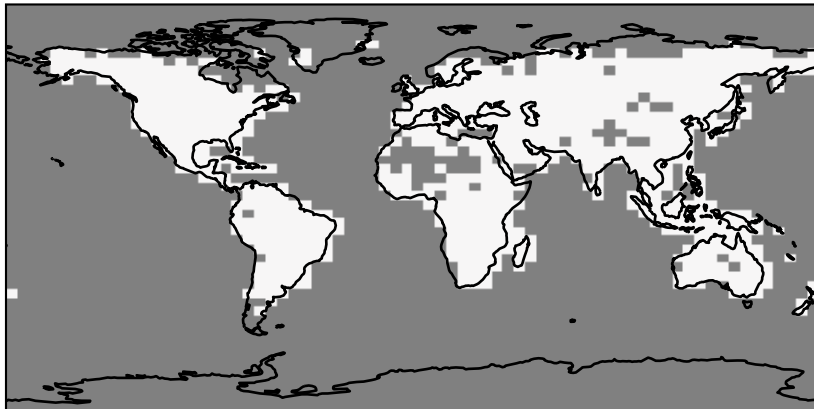
Difference  
Dev - Ref, Dynamic Range



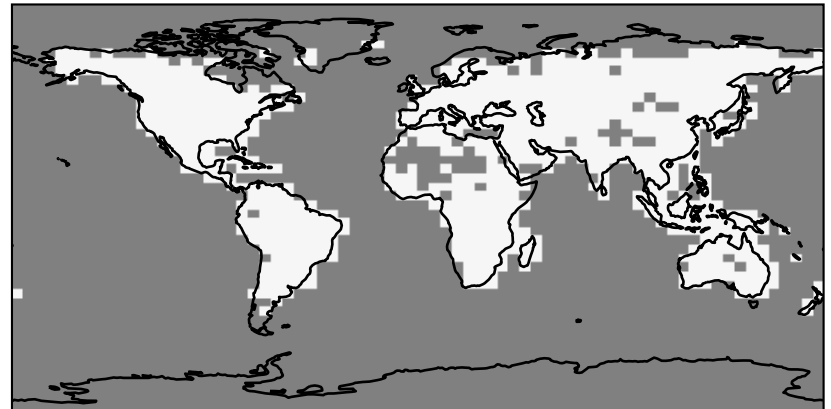
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



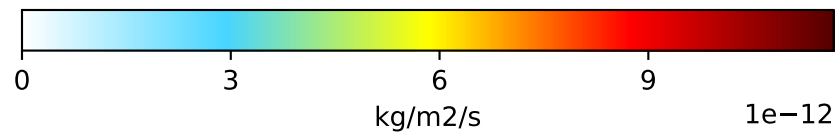
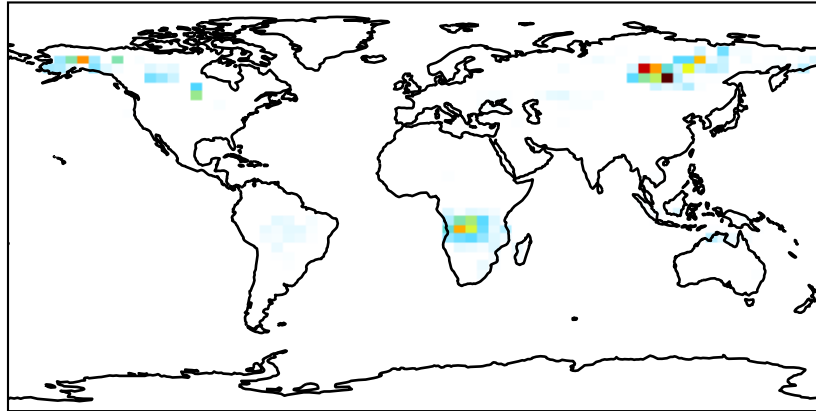
Ratio  
Dev/Ref, Fixed Range



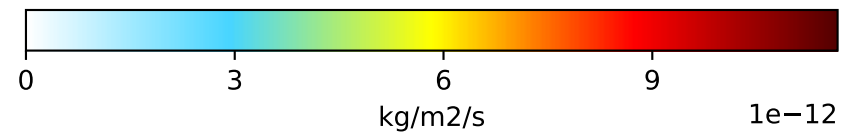
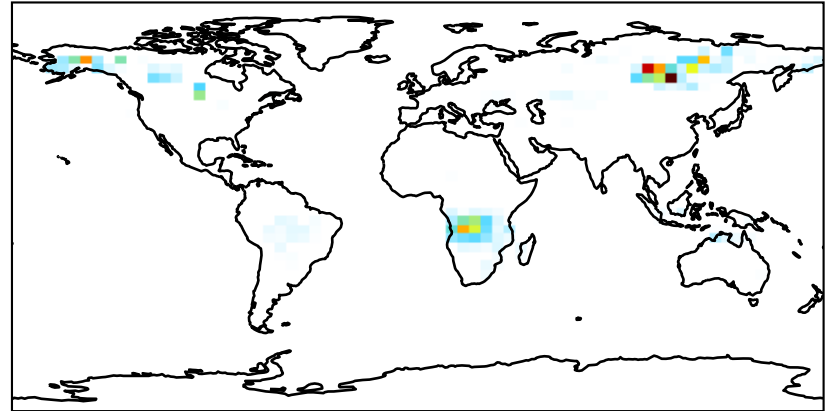


# EmisXYLE\_BioBurn

GCC\_14.2.0\_MERRA2 (Ref)  
4.0x5.0



GCC\_14.2.0\_GEOS-FP (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

