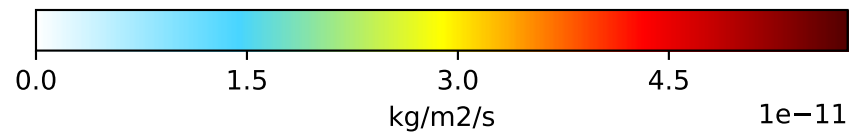
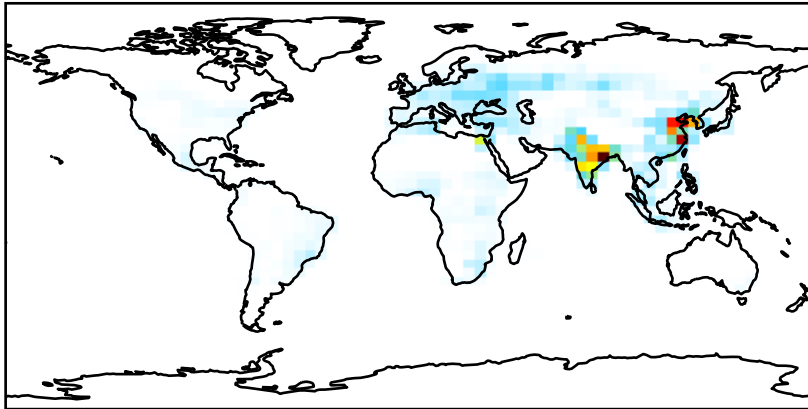
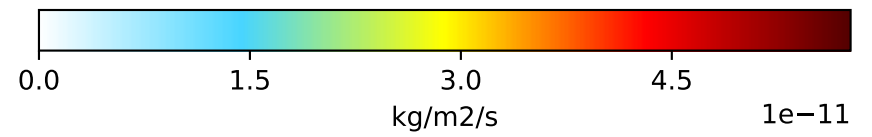
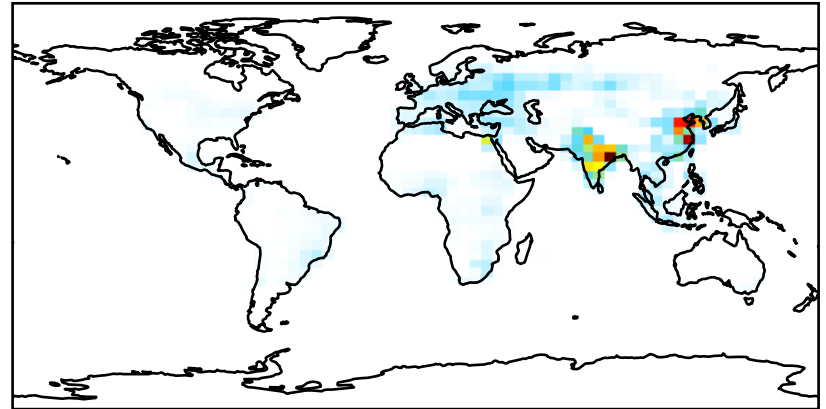


# EmisDST1\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



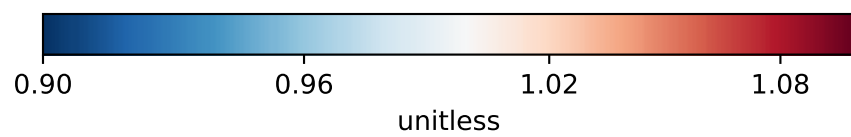
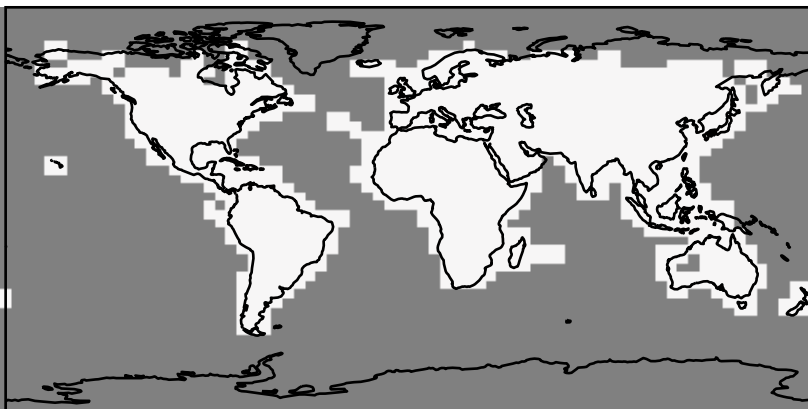
Difference  
Dev - Ref, Dynamic Range



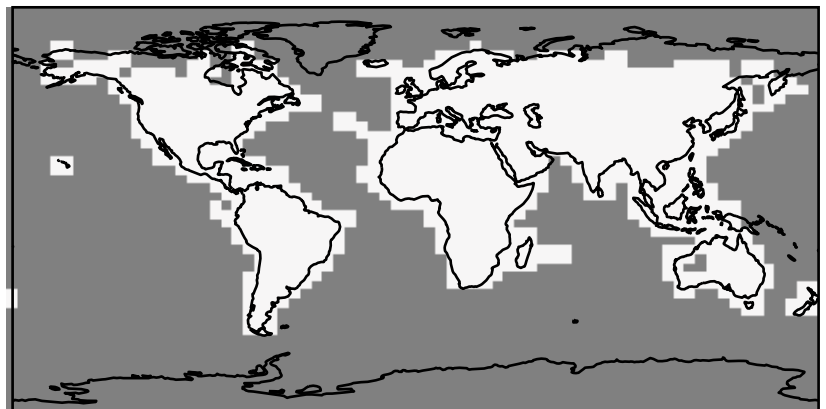
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

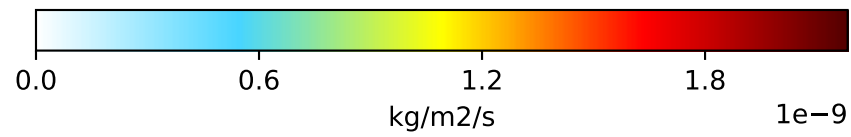
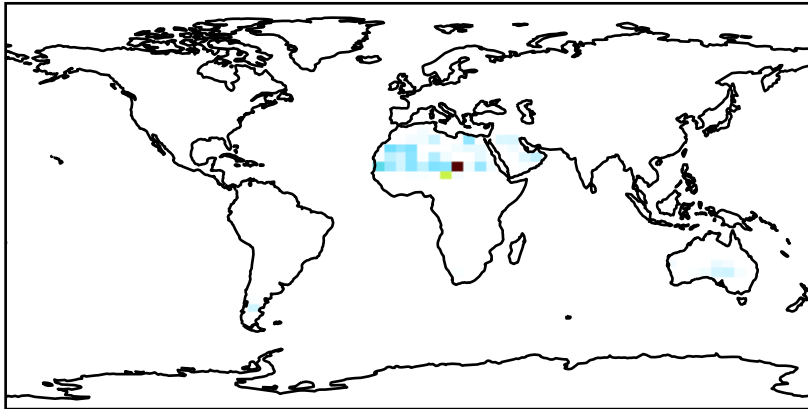


Ratio  
Dev/Ref, Fixed Range

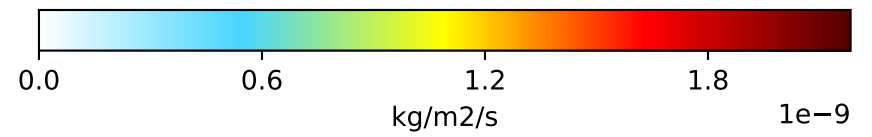
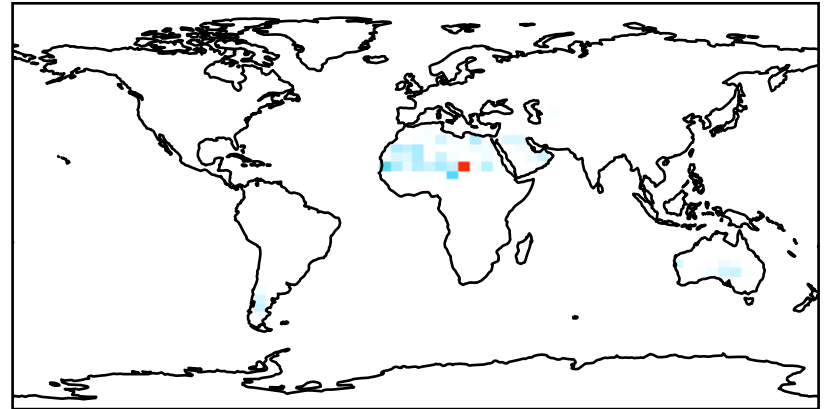


# EmisDST1\_Natural

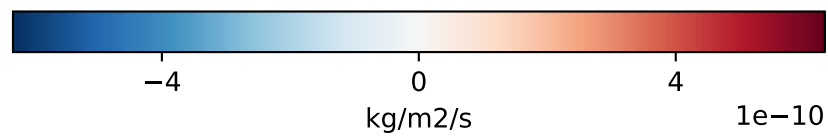
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



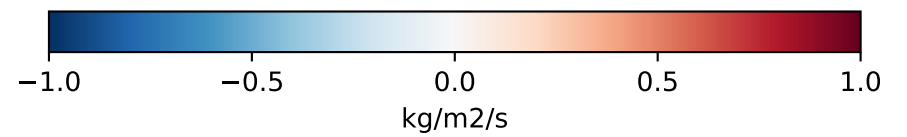
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



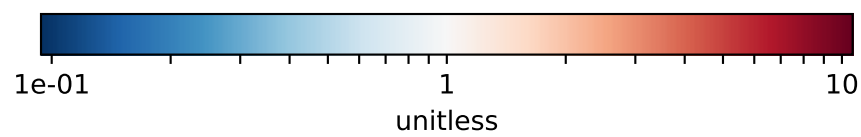
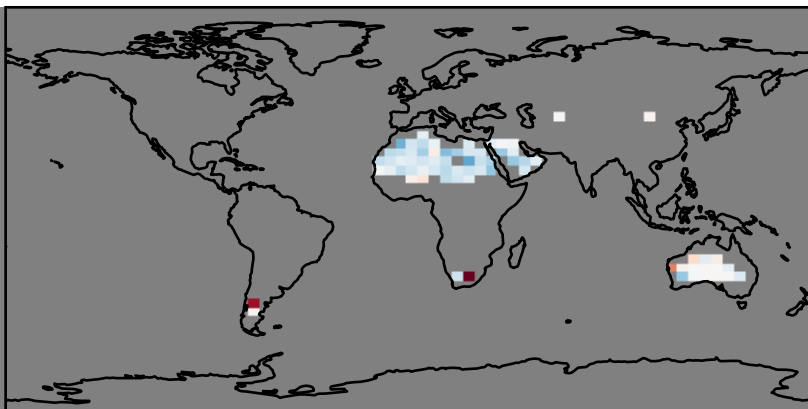
Difference  
Dev - Ref, Dynamic Range



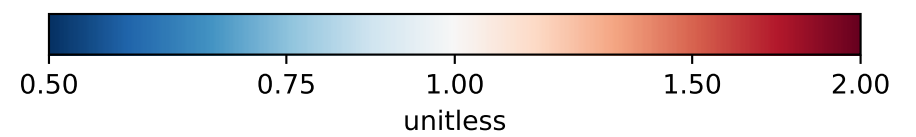
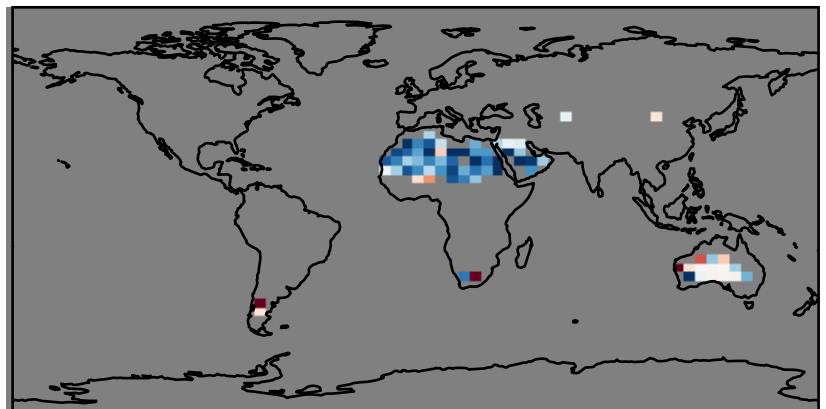
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

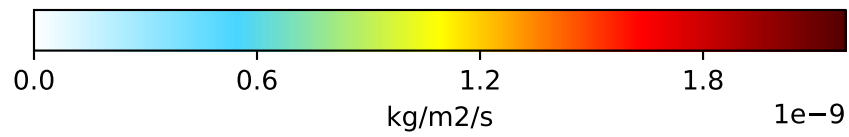
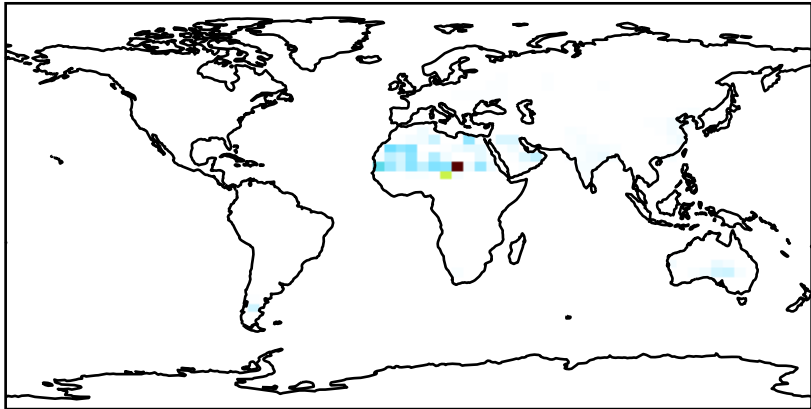


Ratio  
Dev/Ref, Fixed Range

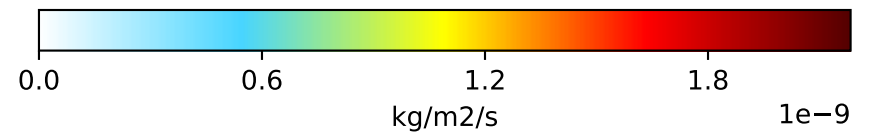
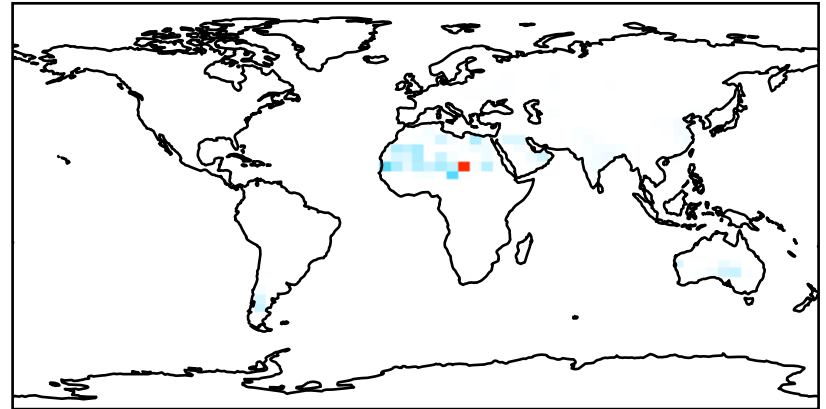


# EmisDST1\_Total

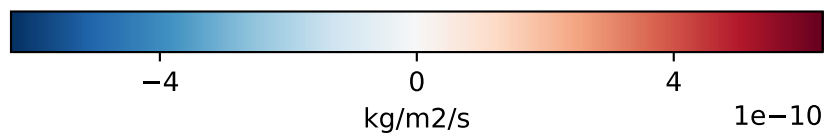
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



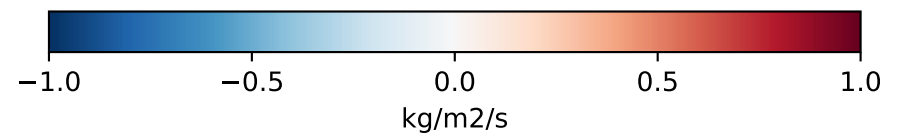
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



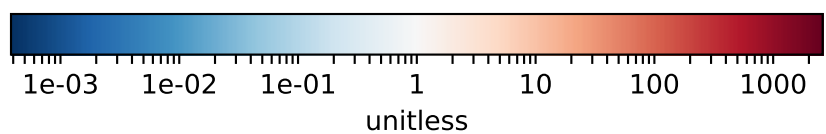
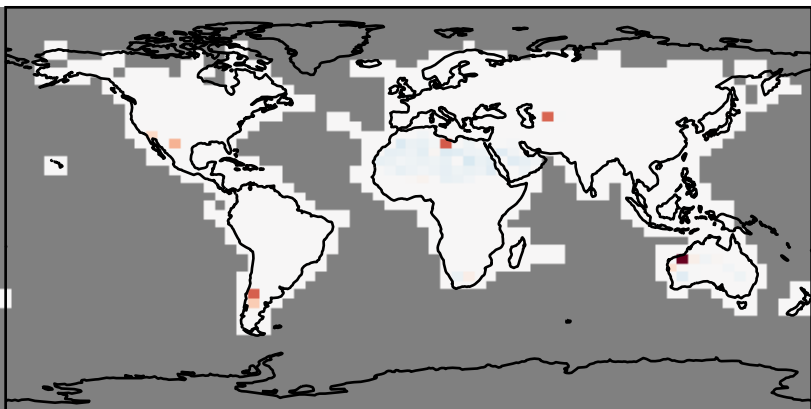
Difference  
Dev - Ref, Dynamic Range



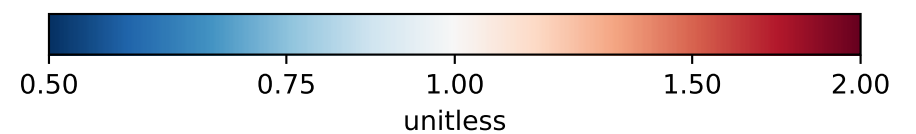
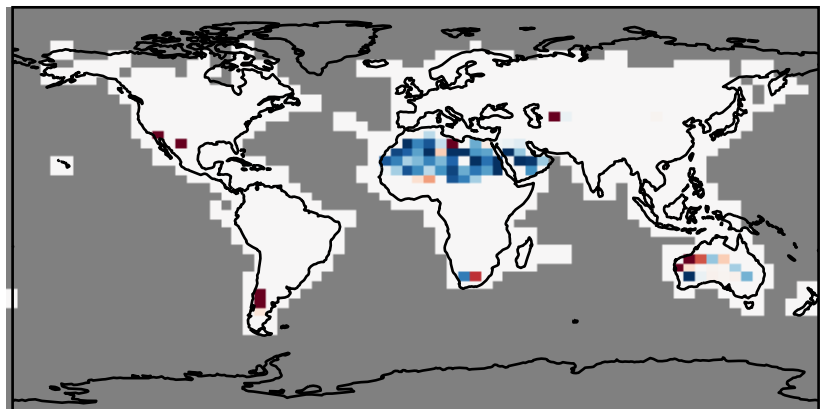
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

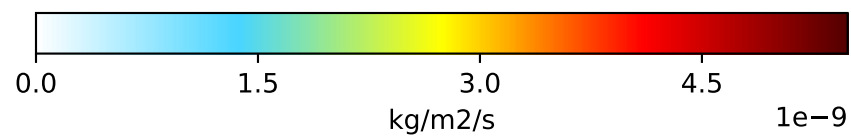
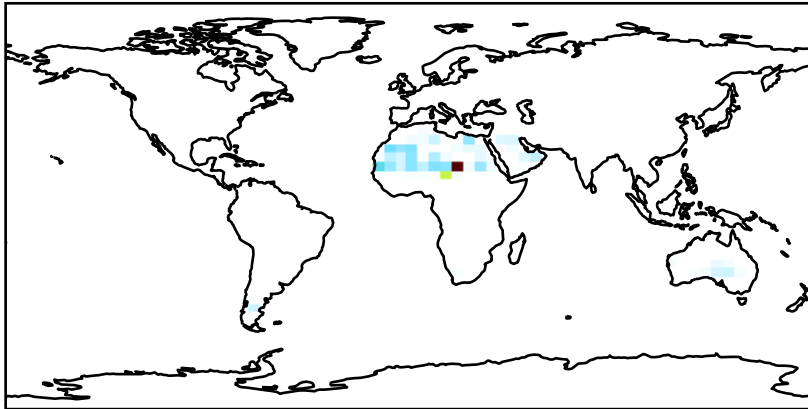


Ratio  
Dev/Ref, Fixed Range

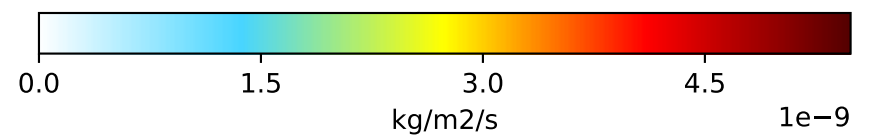
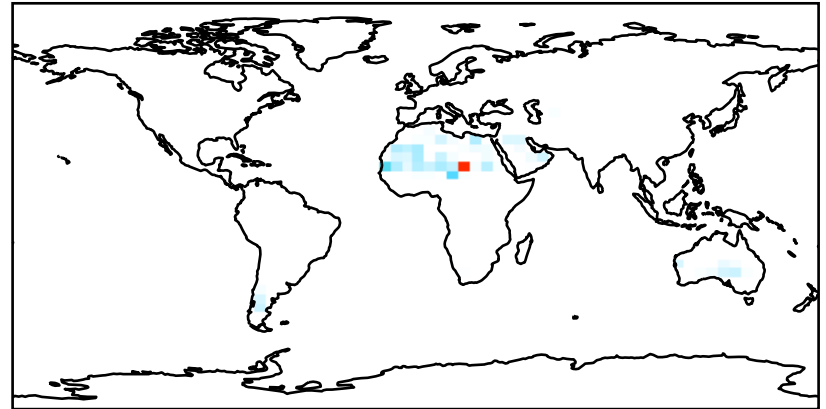


# EmisDST2\_Natural

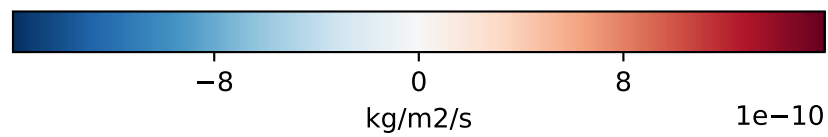
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



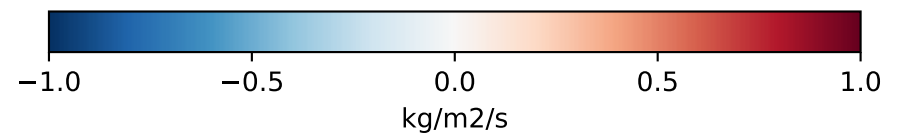
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



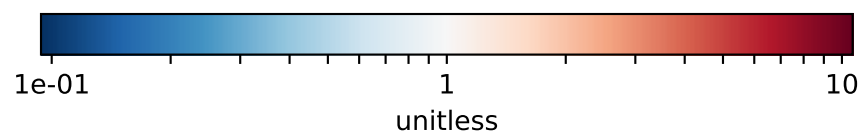
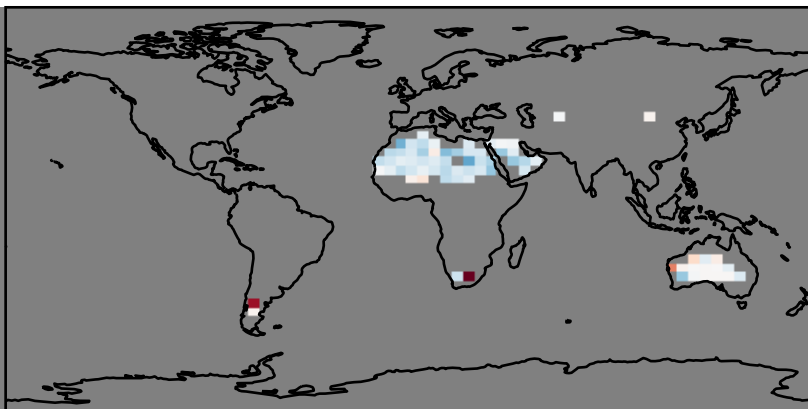
Difference  
Dev - Ref, Dynamic Range



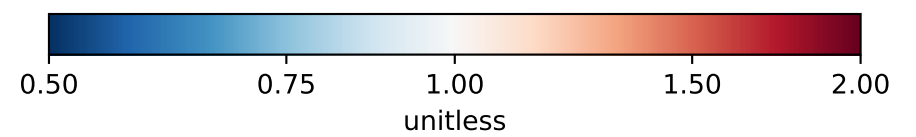
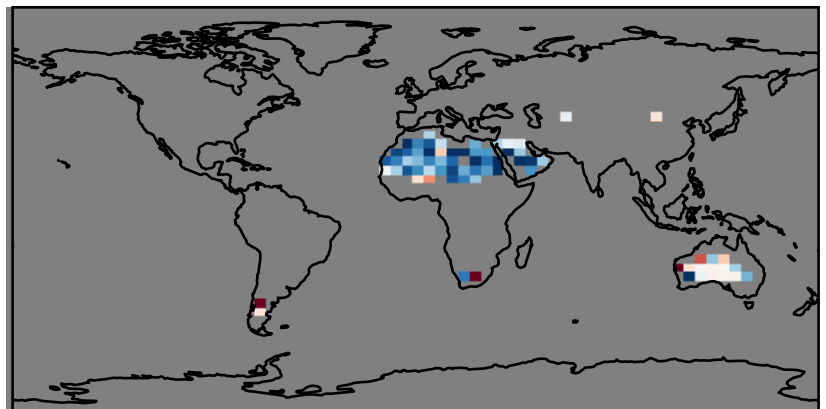
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

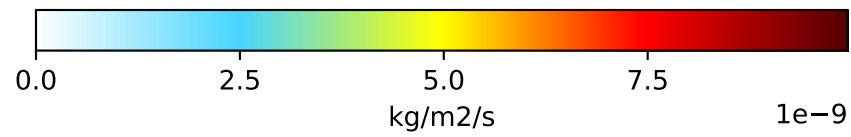
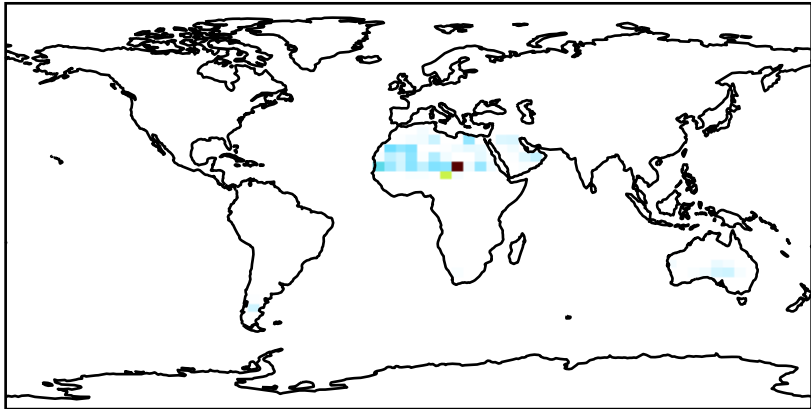


Ratio  
Dev/Ref, Fixed Range

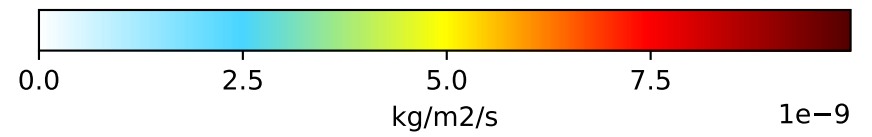
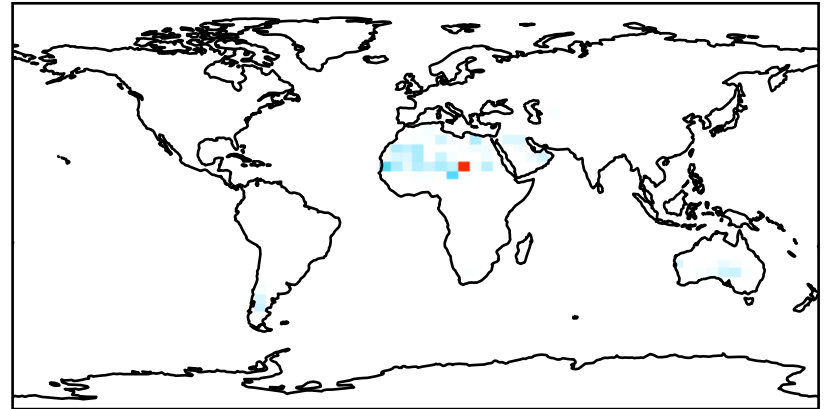


# EmisDST3\_Natural

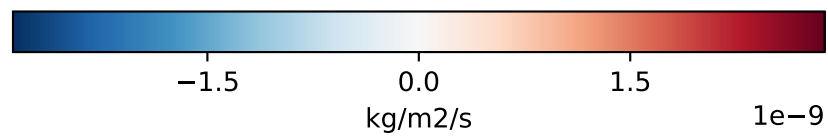
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



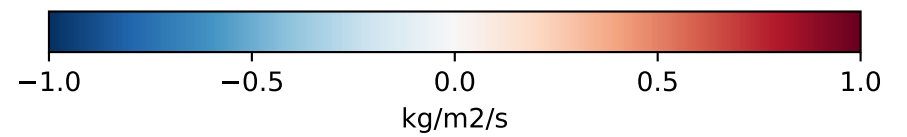
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



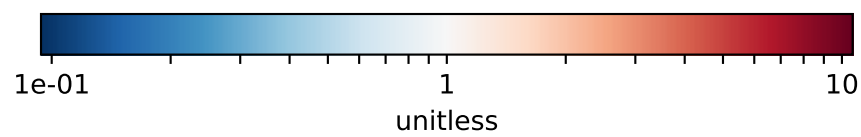
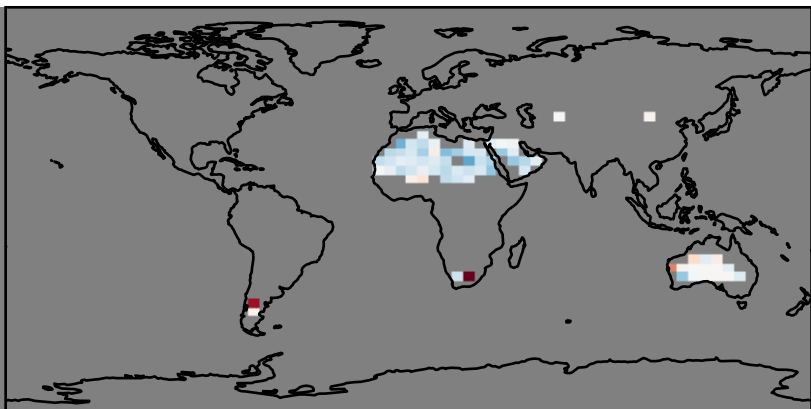
Difference  
Dev - Ref, Dynamic Range



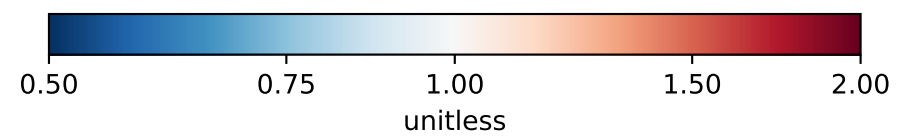
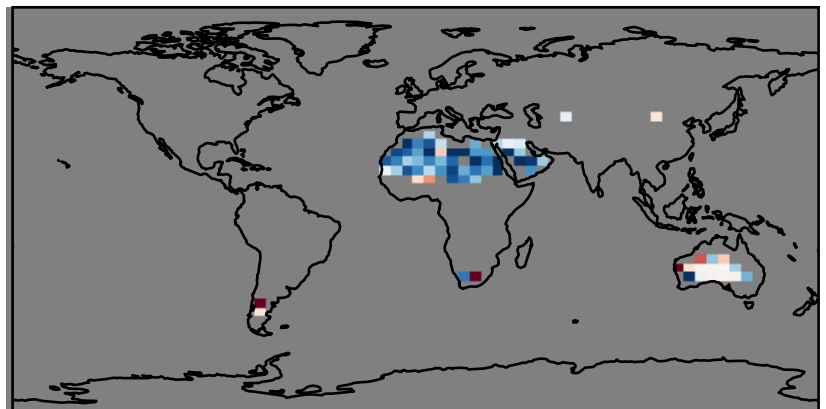
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

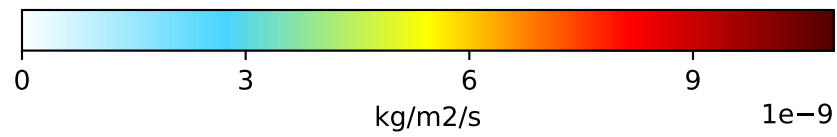
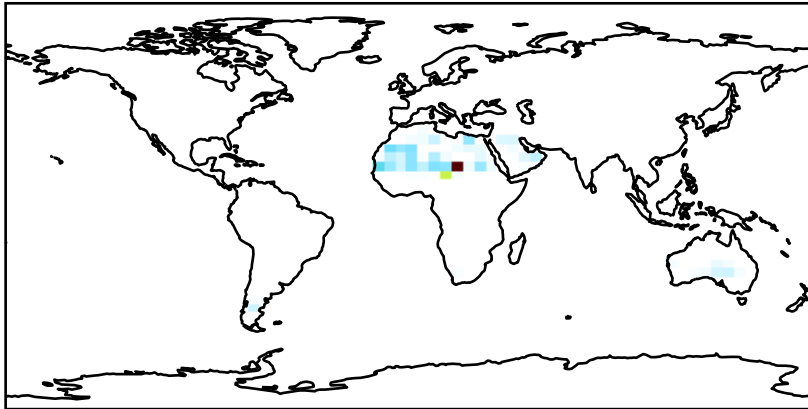


Ratio  
Dev/Ref, Fixed Range

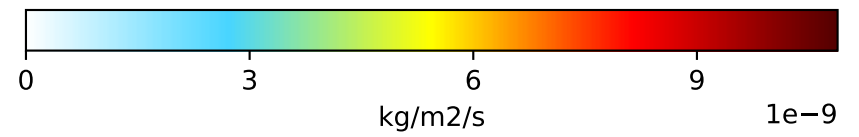
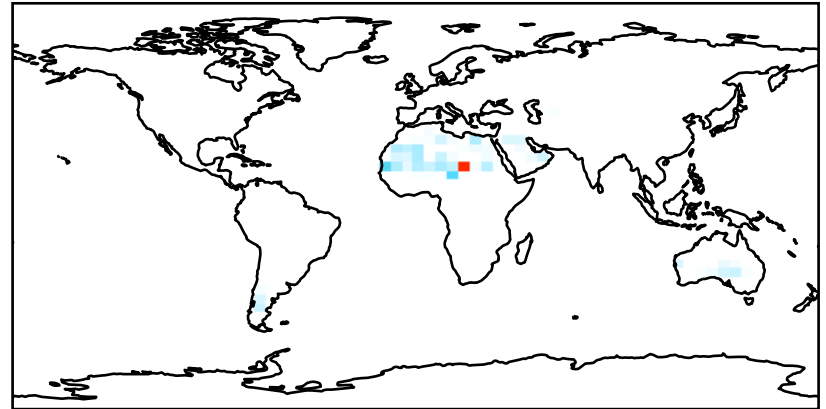


# EmisDST4\_Natural

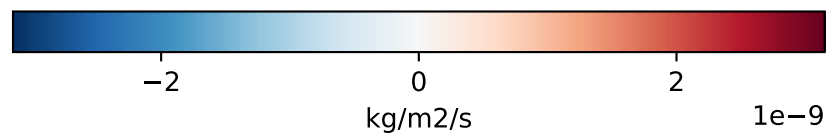
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



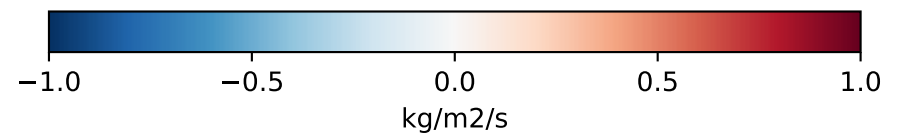
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



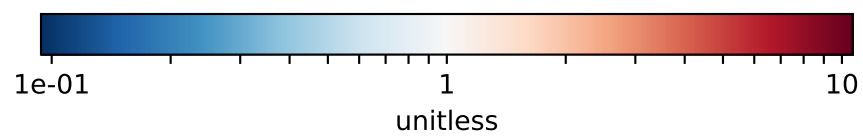
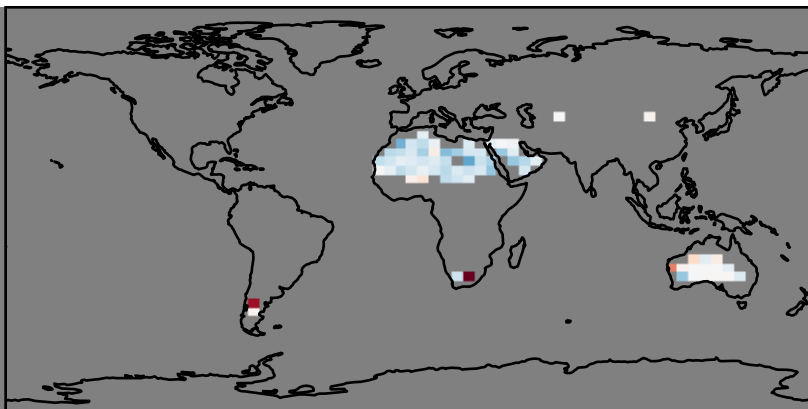
Difference  
Dev - Ref, Dynamic Range



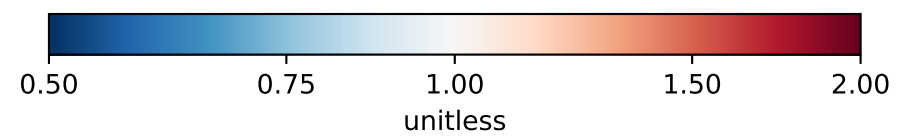
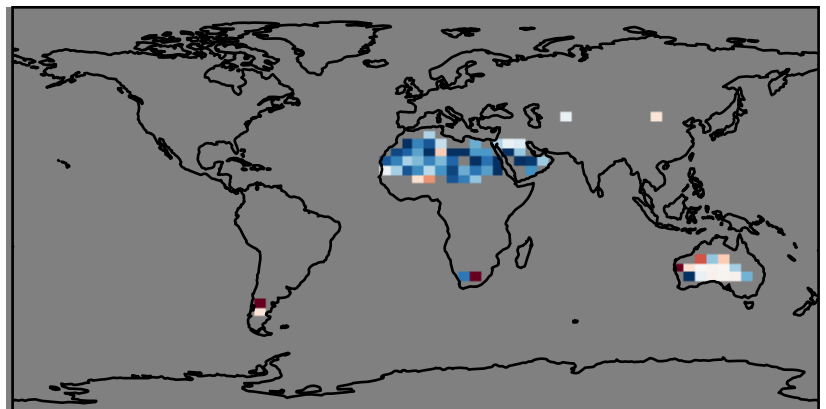
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

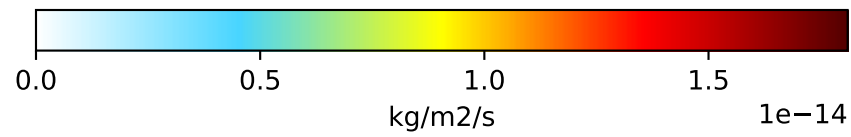
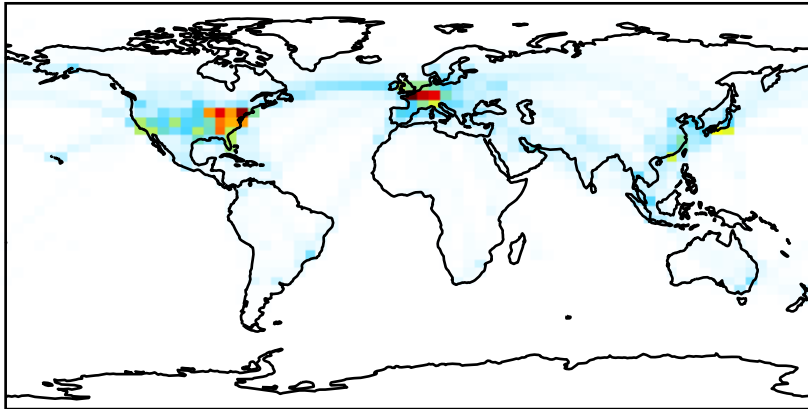


Ratio  
Dev/Ref, Fixed Range

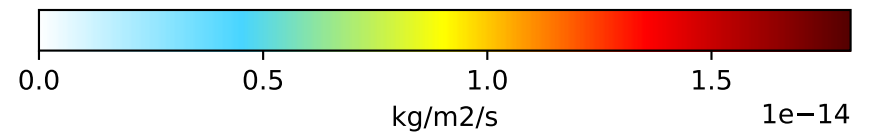
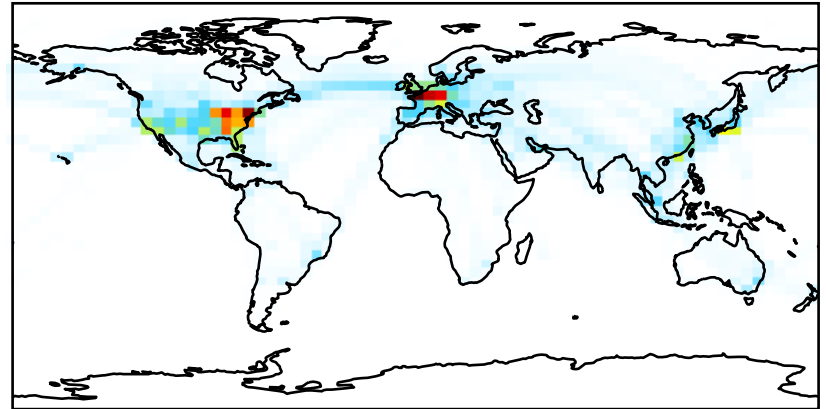


# EmisSO4\_Aircraft

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



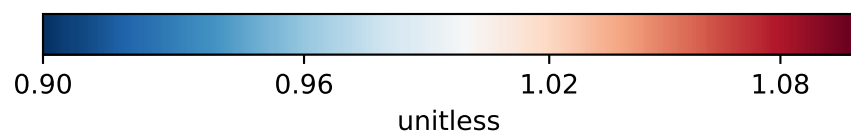
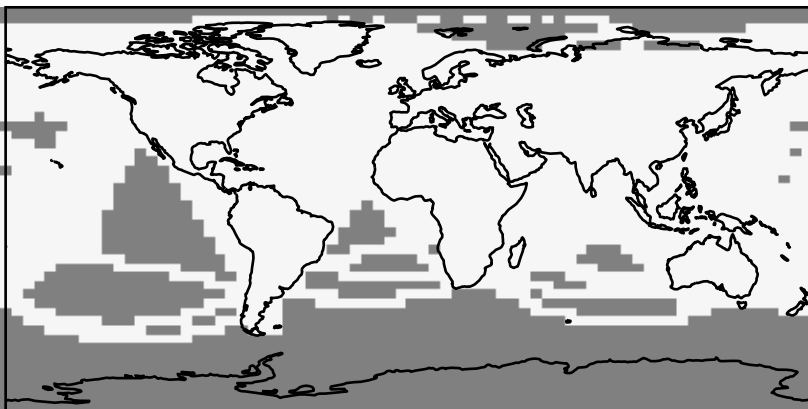
Difference  
Dev - Ref, Dynamic Range



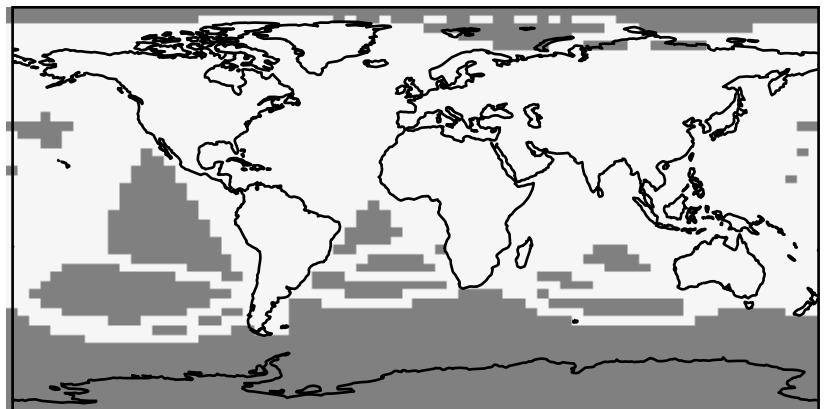
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

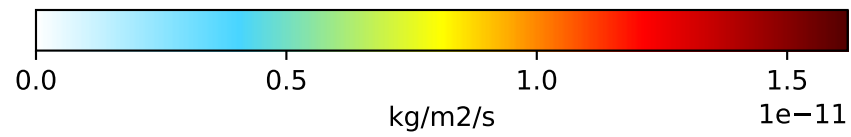
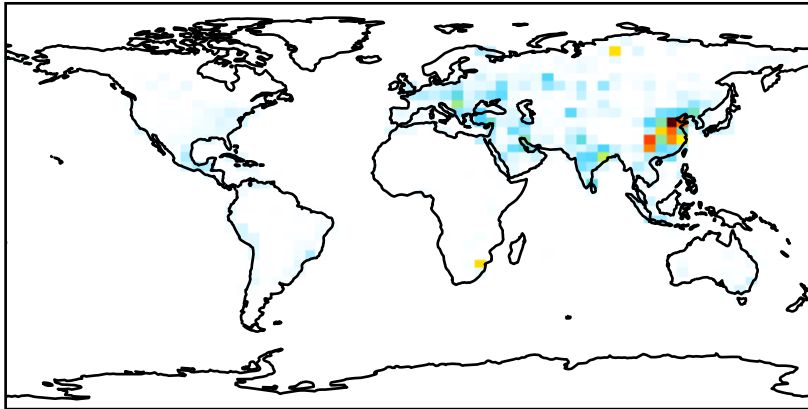


Ratio  
Dev/Ref, Fixed Range

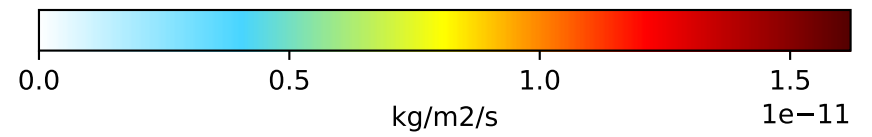
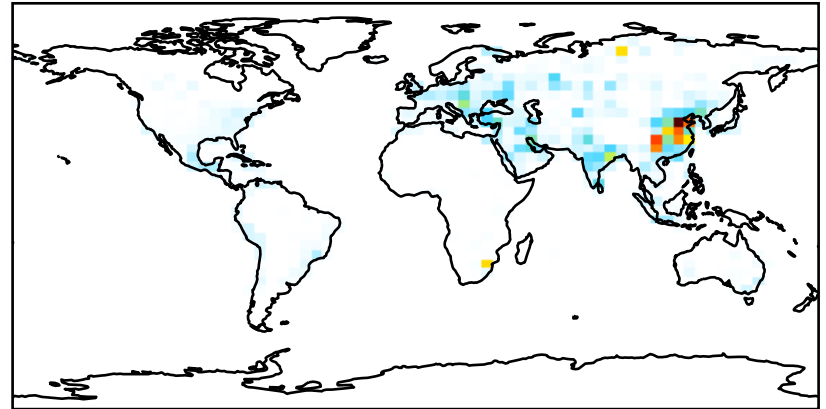


# EmisSO4\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



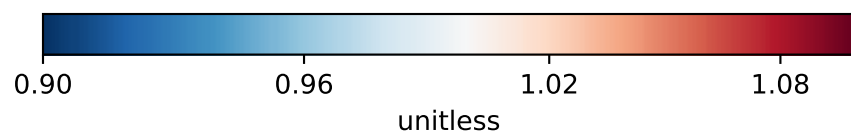
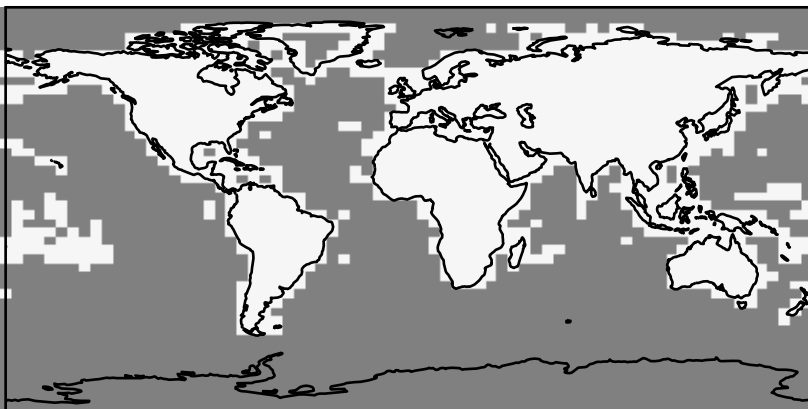
Difference  
Dev - Ref, Dynamic Range



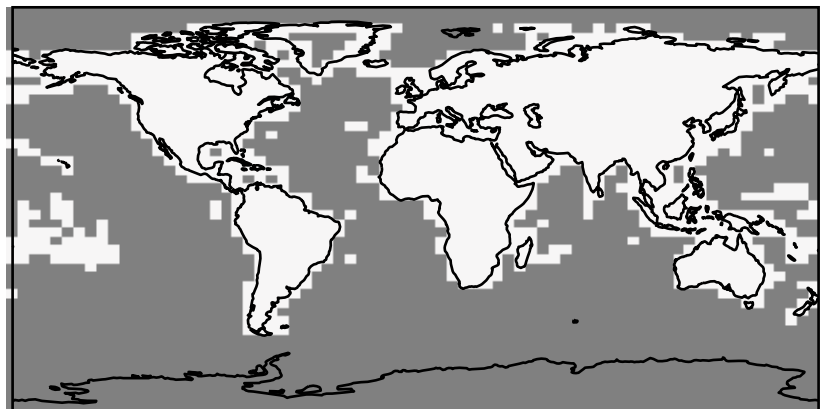
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



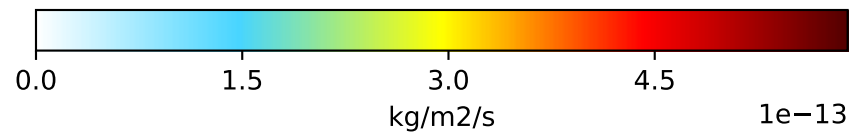
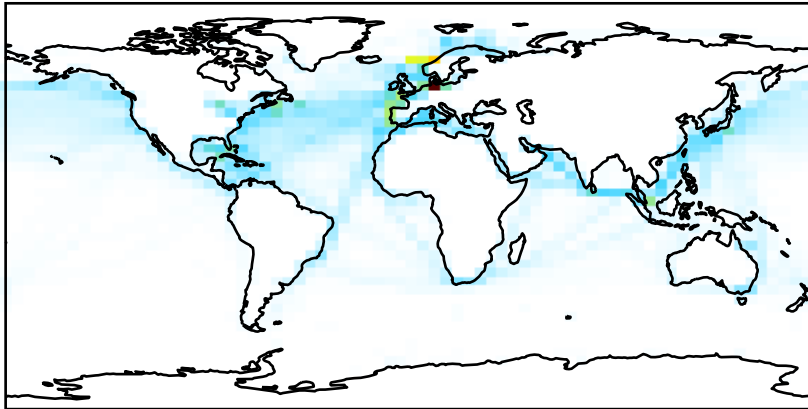
Ratio  
Dev/Ref, Fixed Range



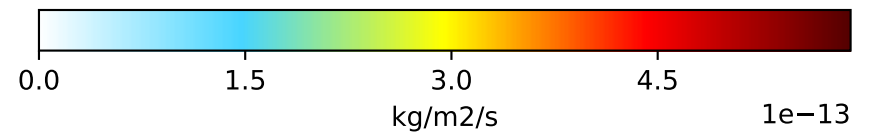
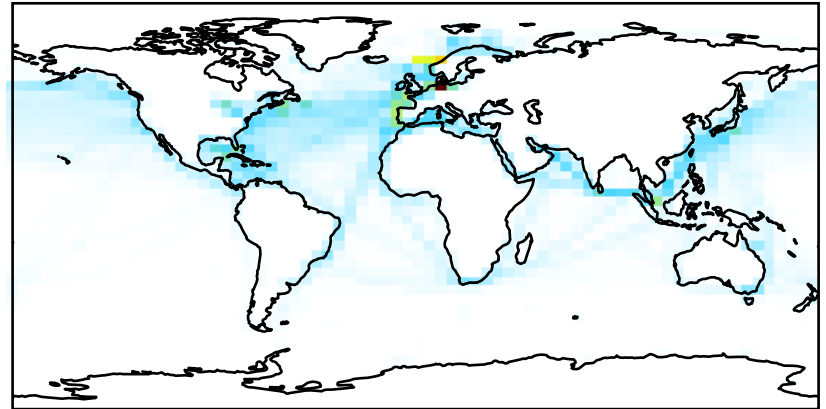


# EmisSO4\_Ship

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



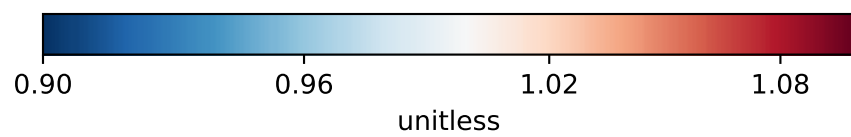
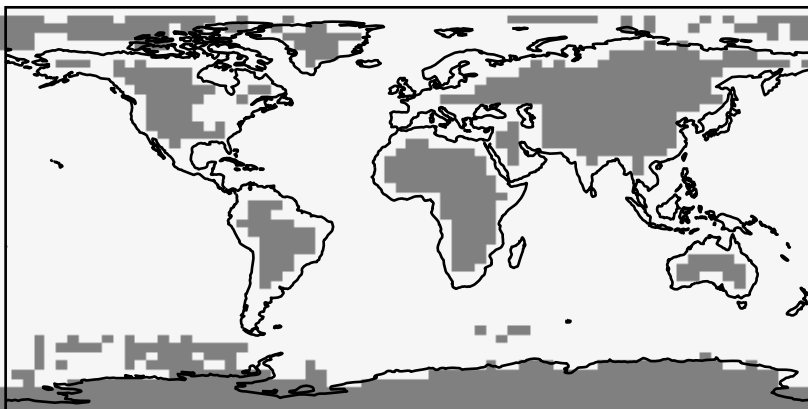
Difference  
Dev - Ref, Dynamic Range



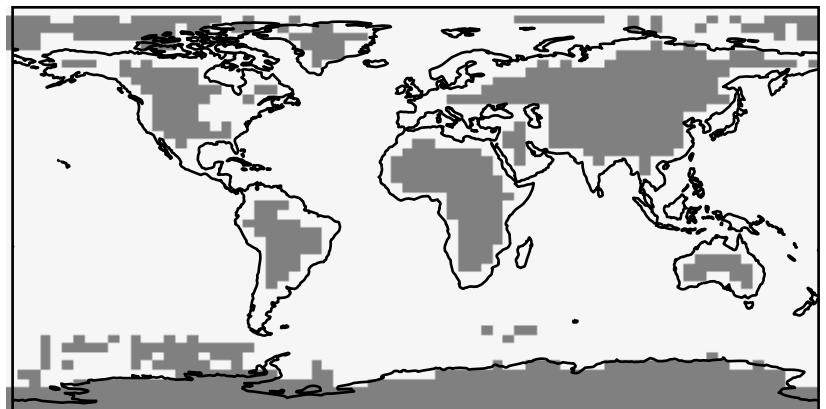
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

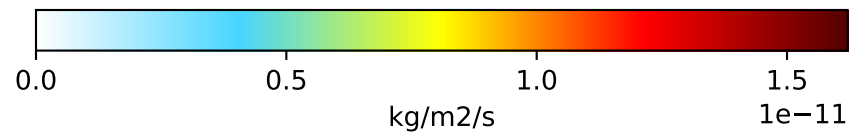
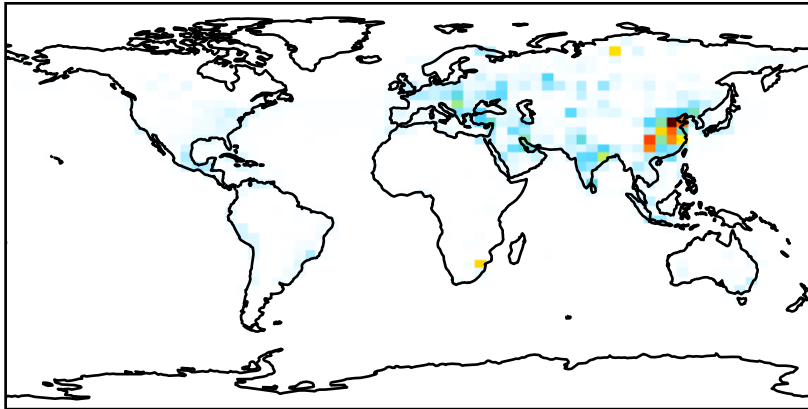


Ratio  
Dev/Ref, Fixed Range

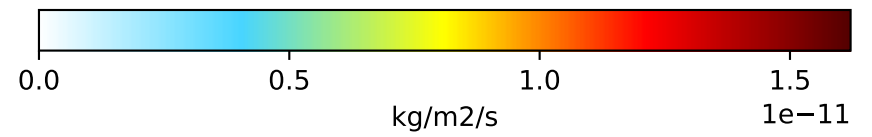
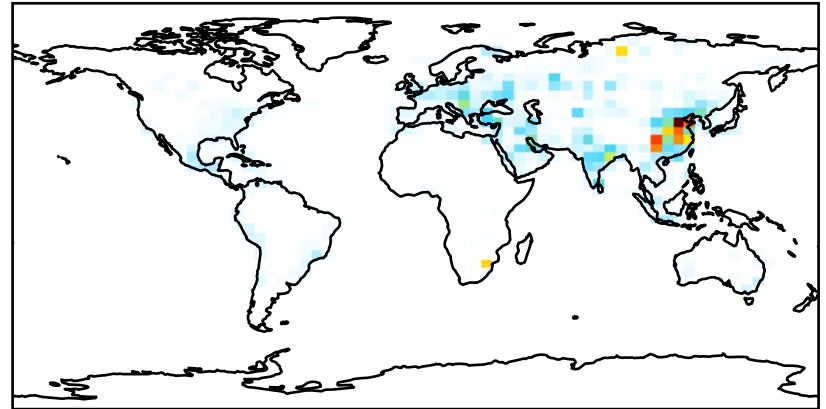


# EmisSO4\_Total

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



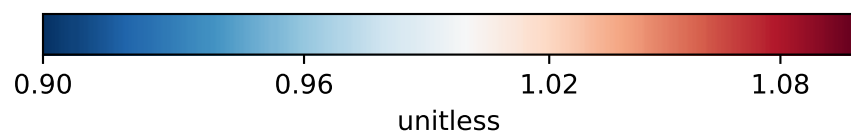
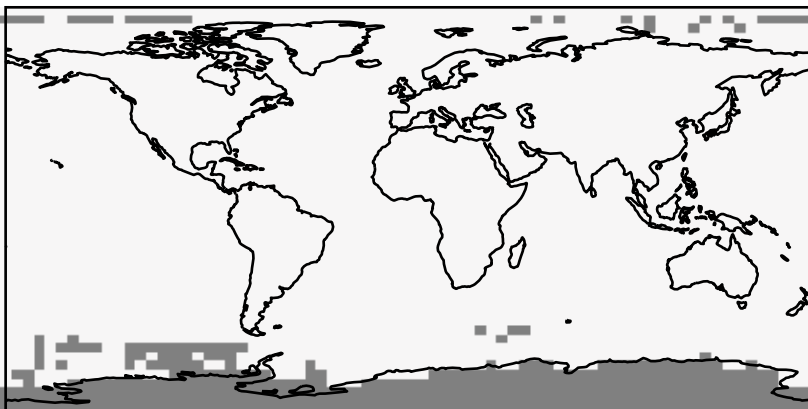
Difference  
Dev - Ref, Dynamic Range



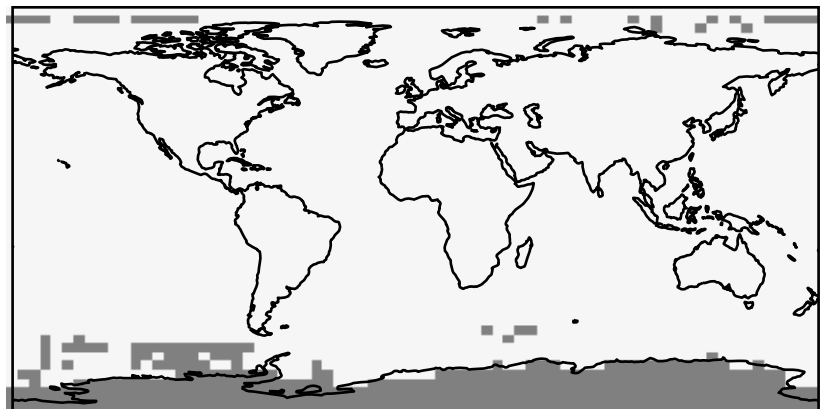
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

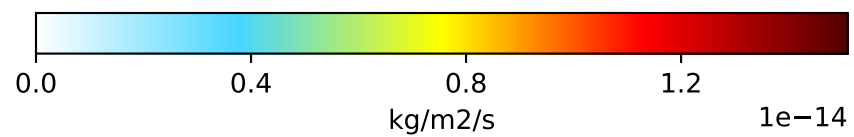
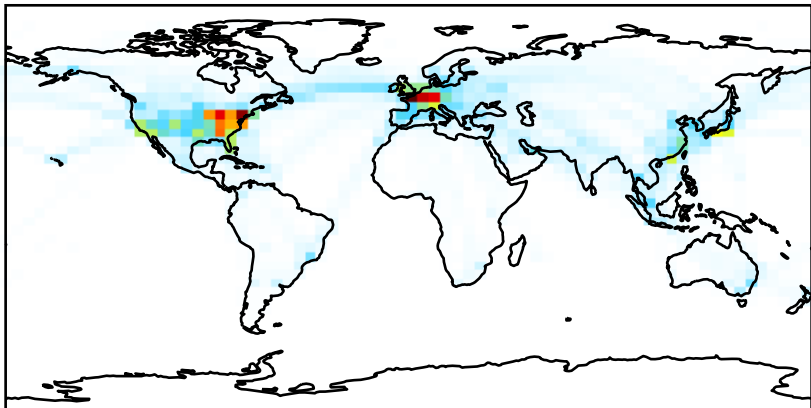


Ratio  
Dev/Ref, Fixed Range

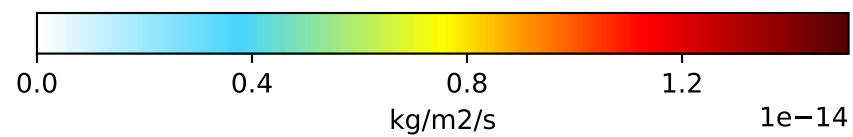
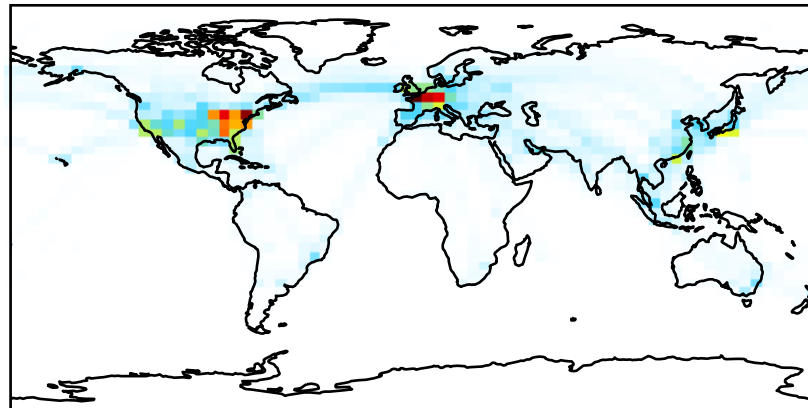


# EmisBCPI\_Aircraft

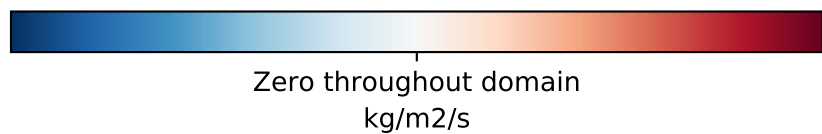
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



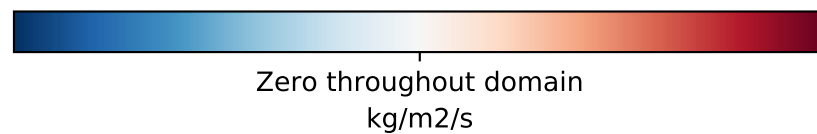
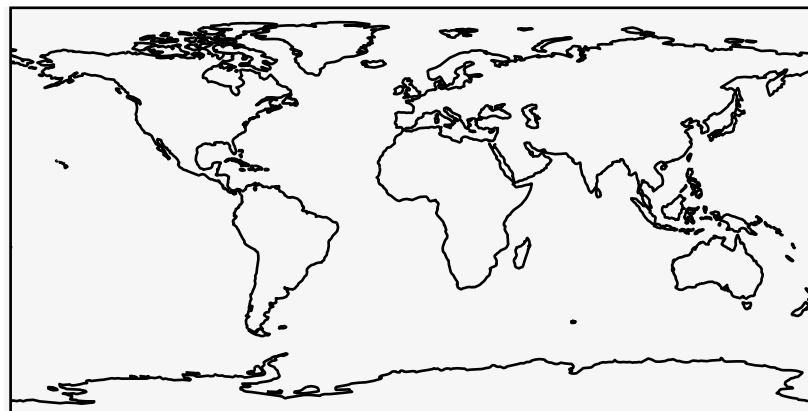
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



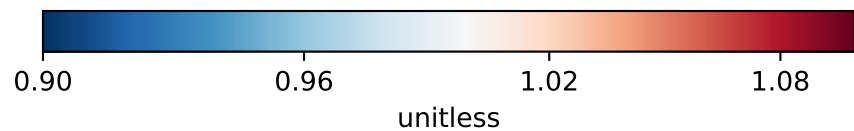
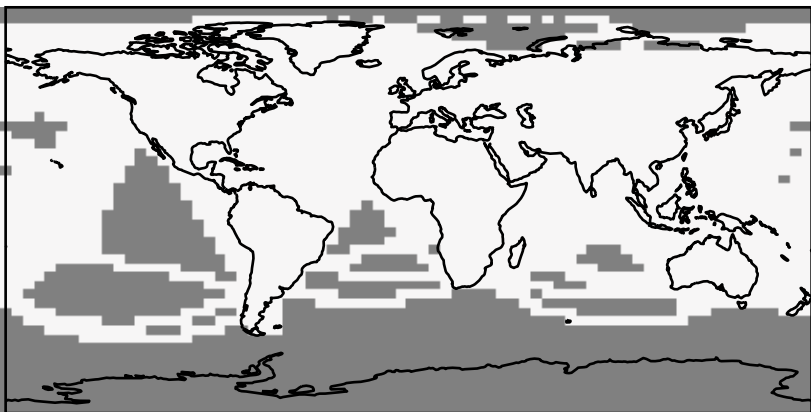
Difference  
Dev - Ref, Dynamic Range



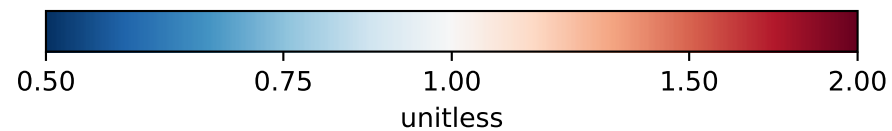
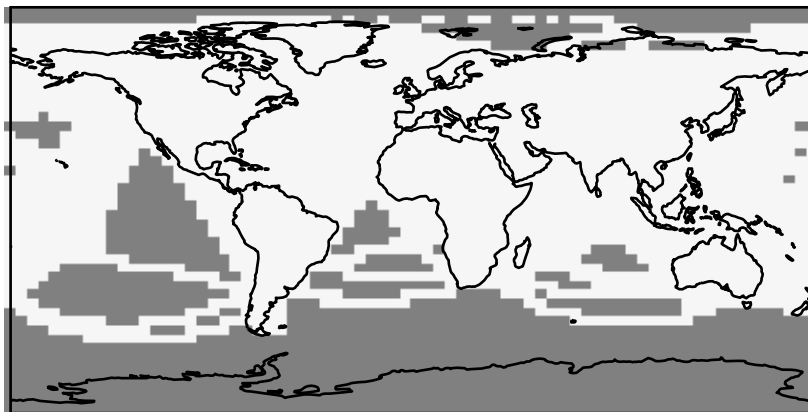
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

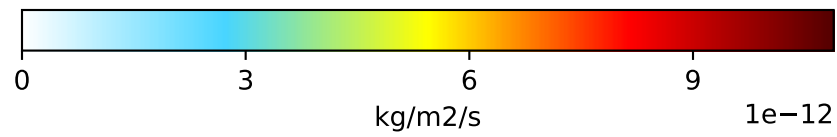
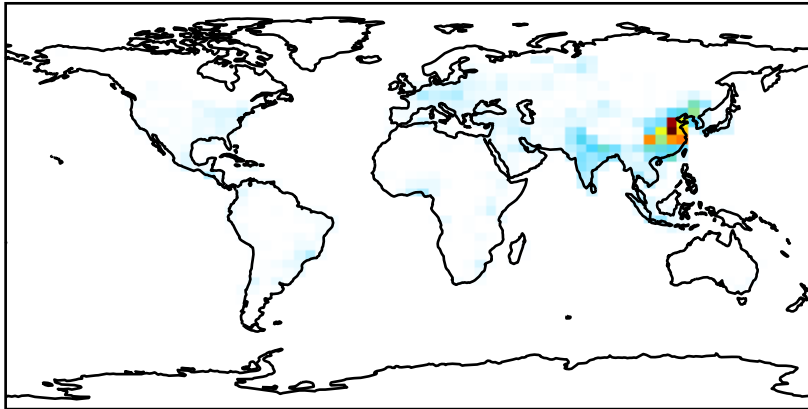


Ratio  
Dev/Ref, Fixed Range

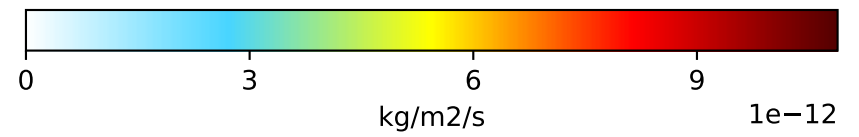
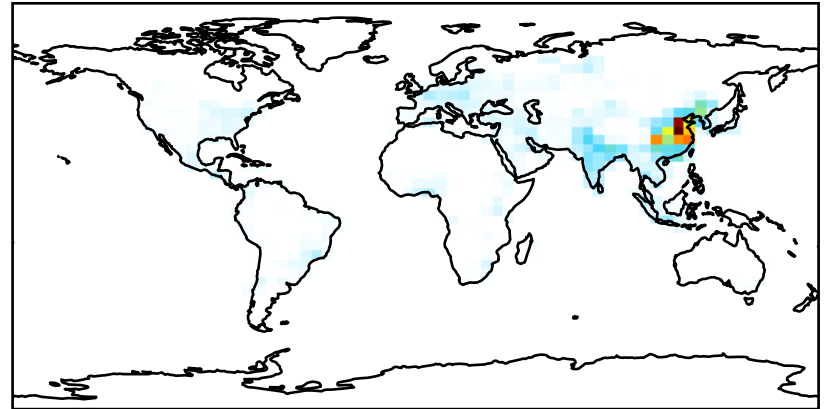


# EmisBCPI\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



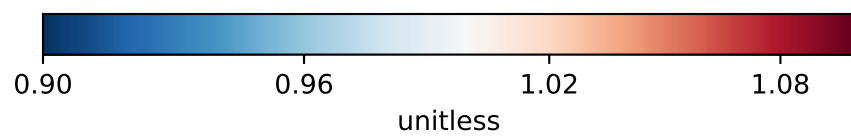
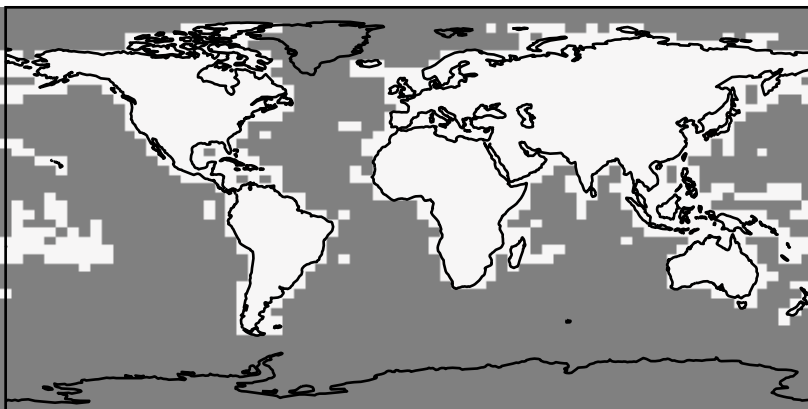
Difference  
Dev - Ref, Dynamic Range



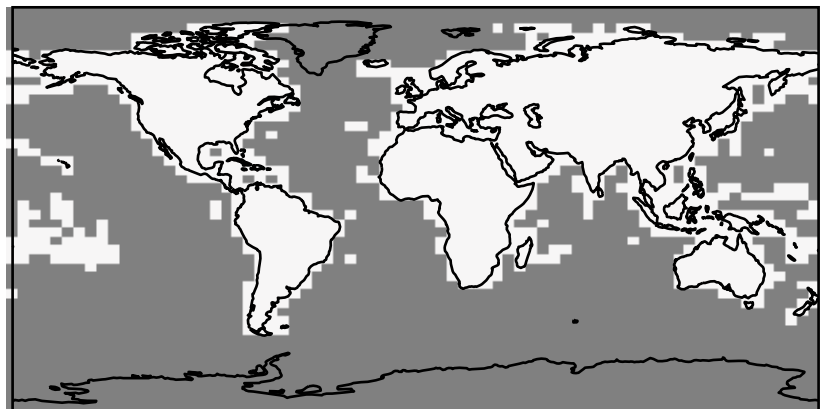
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

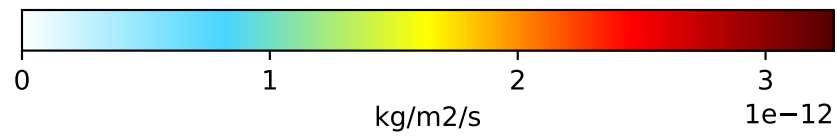
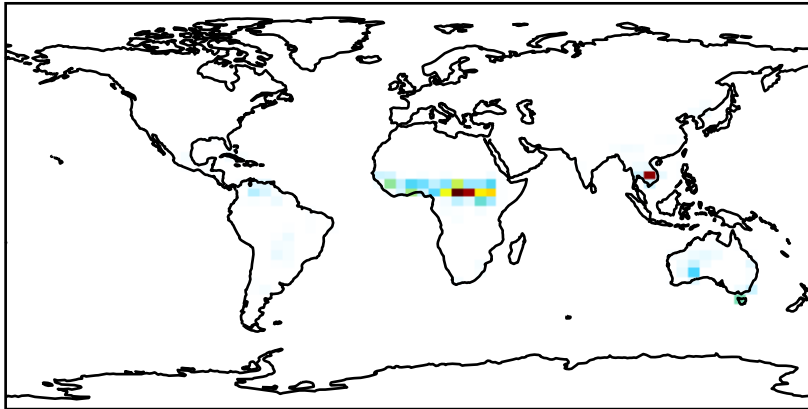


Ratio  
Dev/Ref, Fixed Range

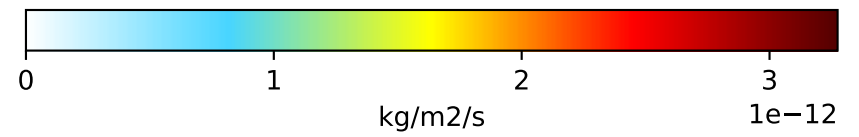
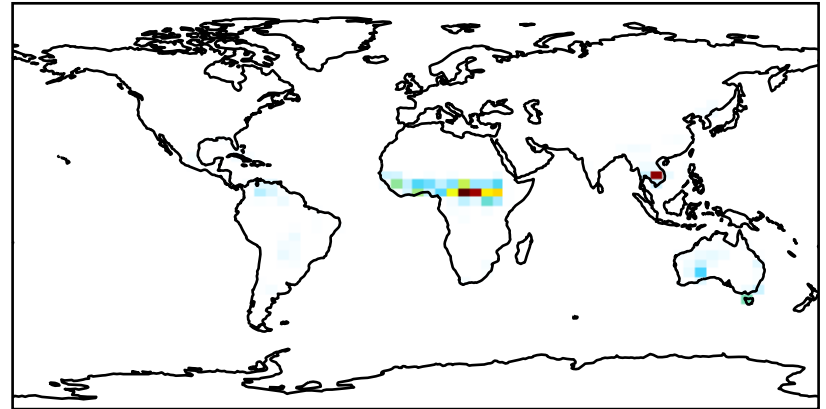


# EmisBCPI\_BioBurn

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



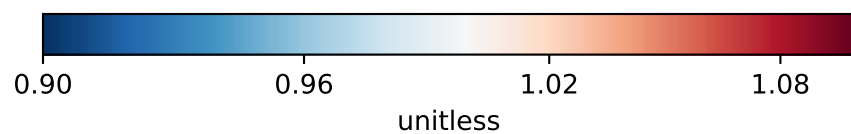
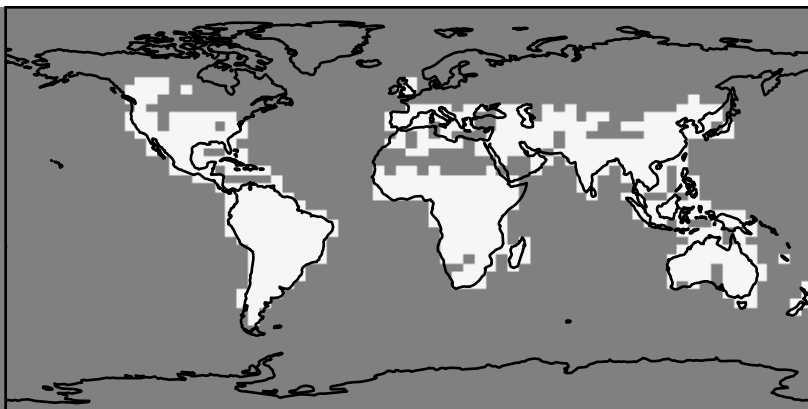
Difference  
Dev - Ref, Dynamic Range



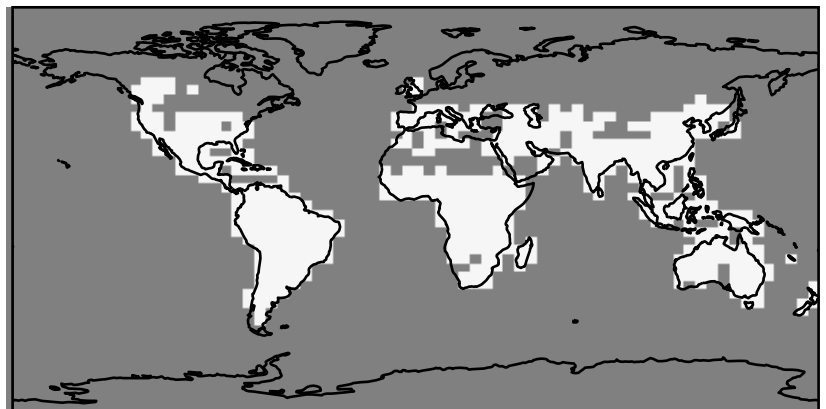
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

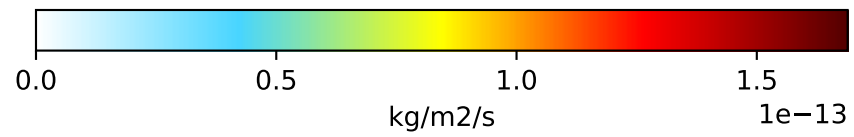
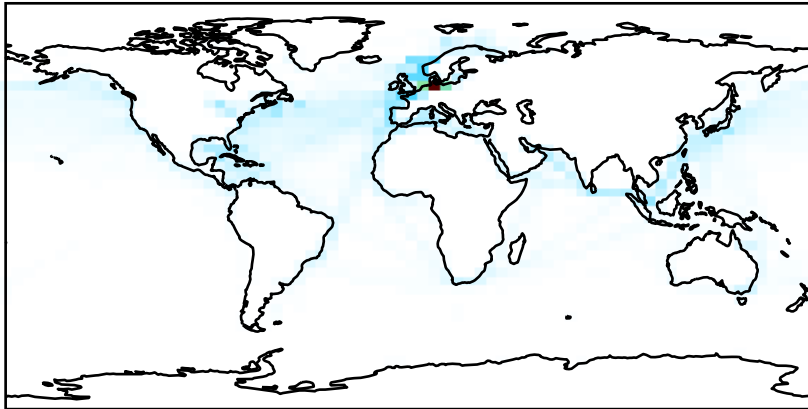


Ratio  
Dev/Ref, Fixed Range

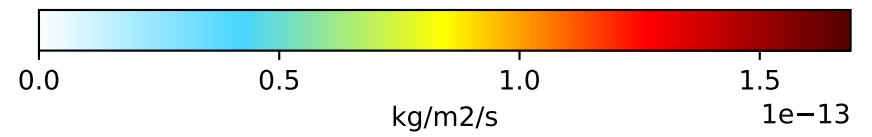
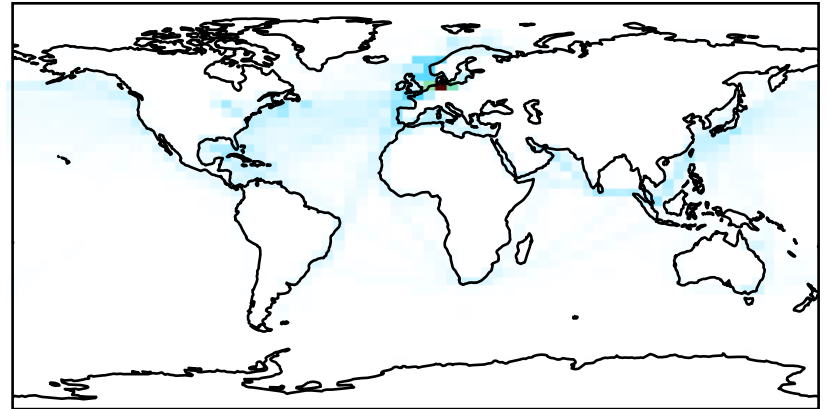


# EmisBCPI\_Ship

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



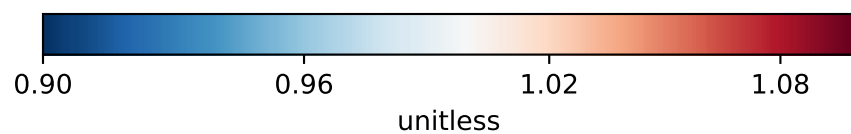
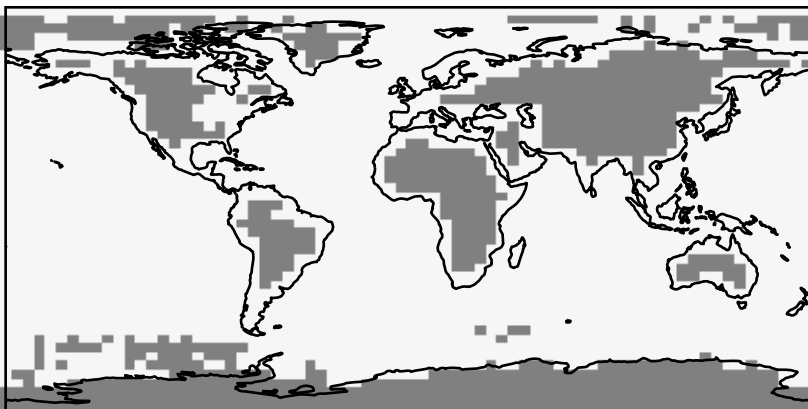
Difference  
Dev - Ref, Dynamic Range



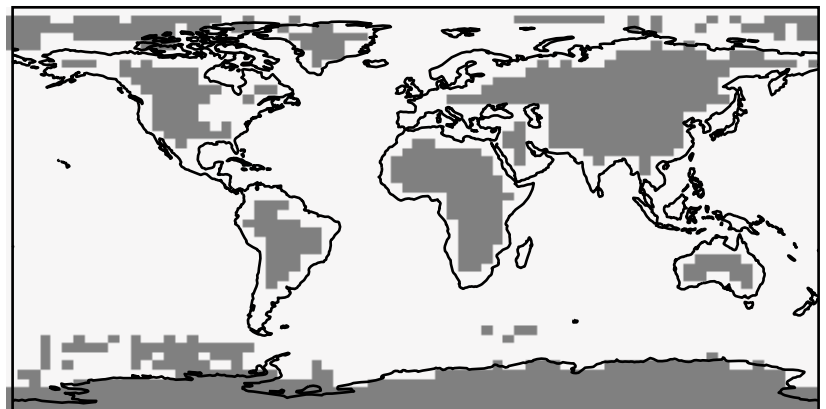
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

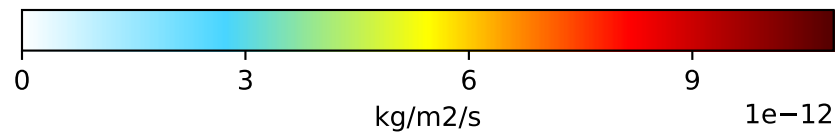
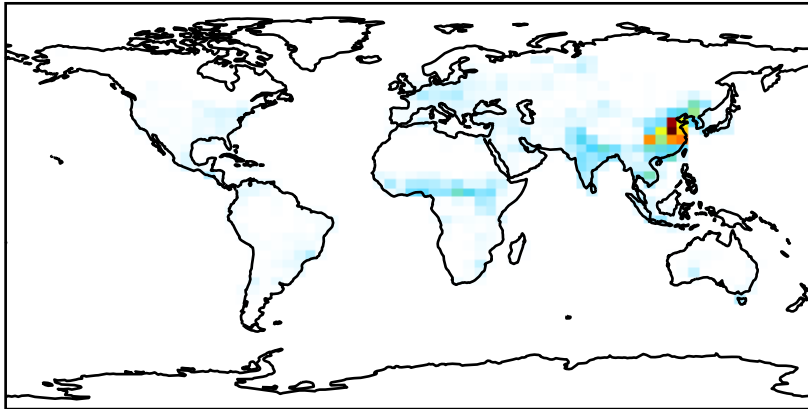


Ratio  
Dev/Ref, Fixed Range

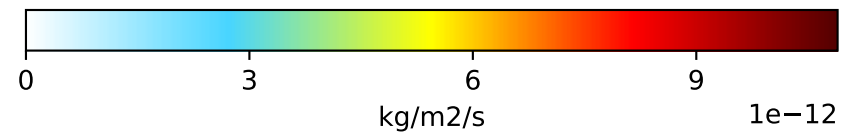
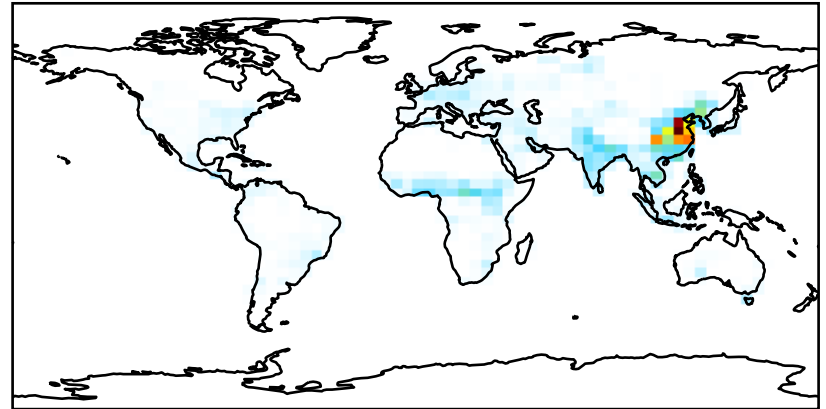


# EmisBCPI\_Total

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



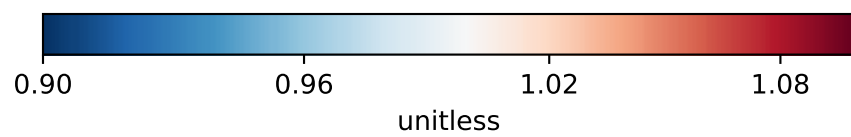
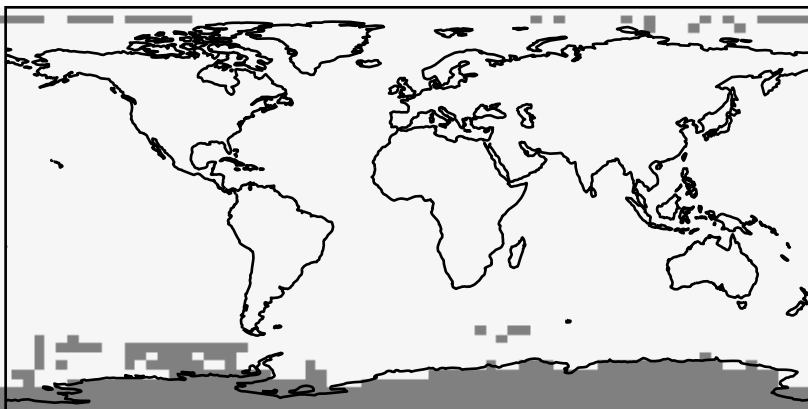
Difference  
Dev - Ref, Dynamic Range



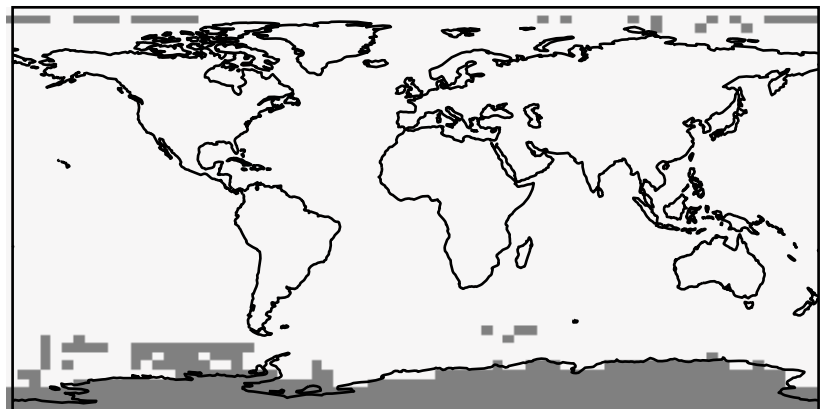
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

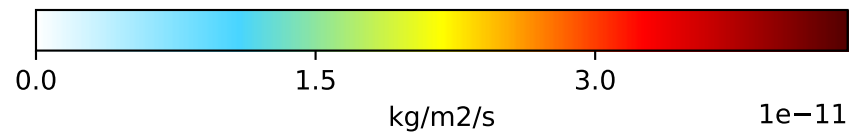
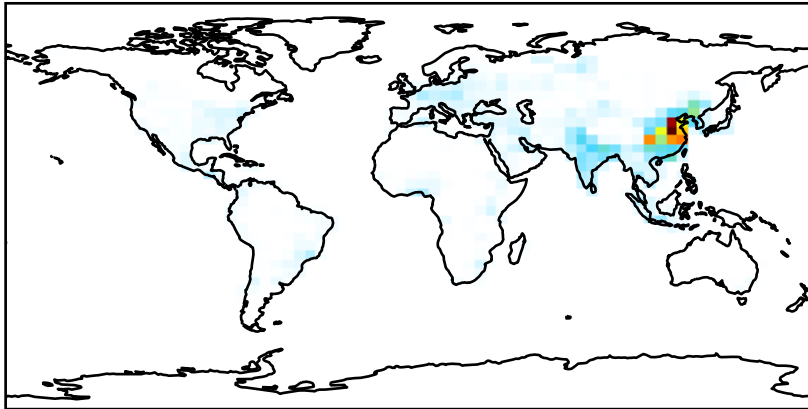


Ratio  
Dev/Ref, Fixed Range

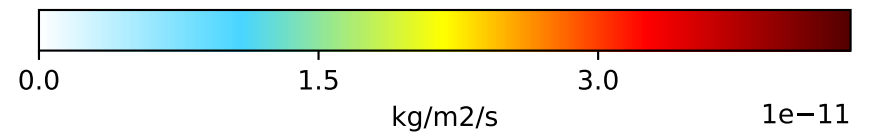
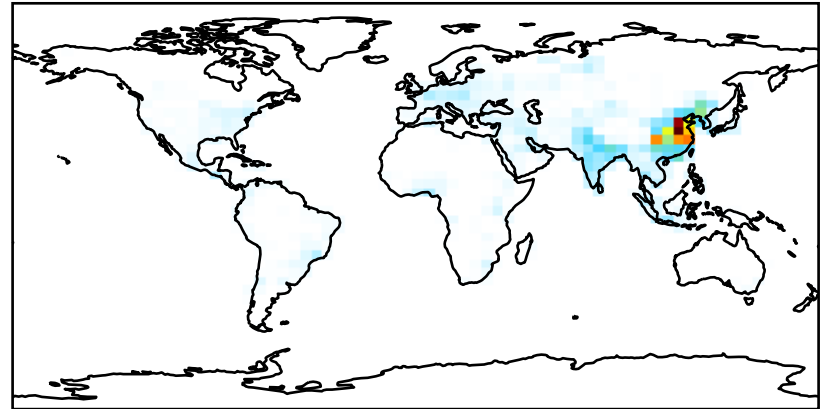


# EmisBCPO\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



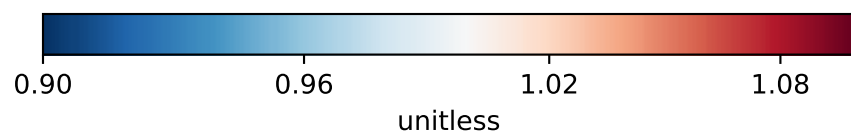
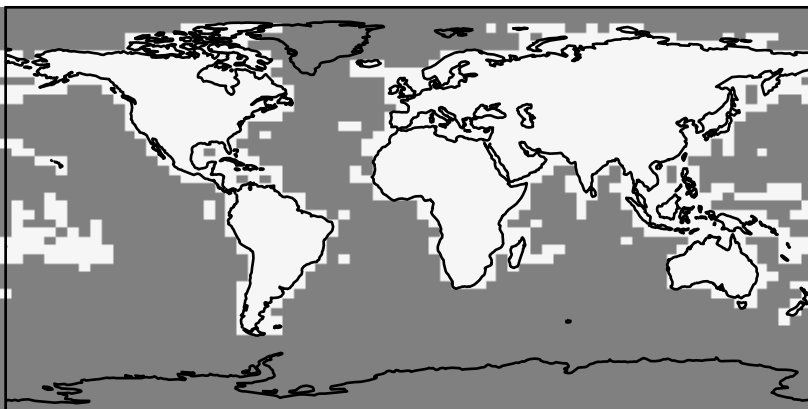
Difference  
Dev - Ref, Dynamic Range



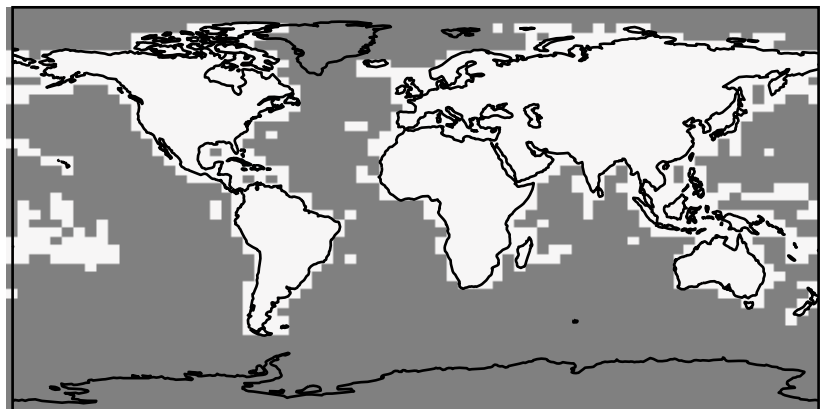
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



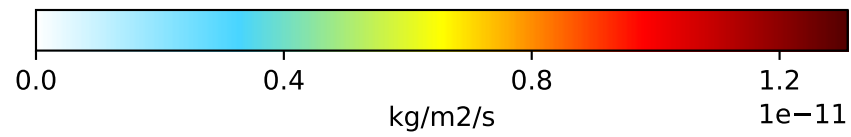
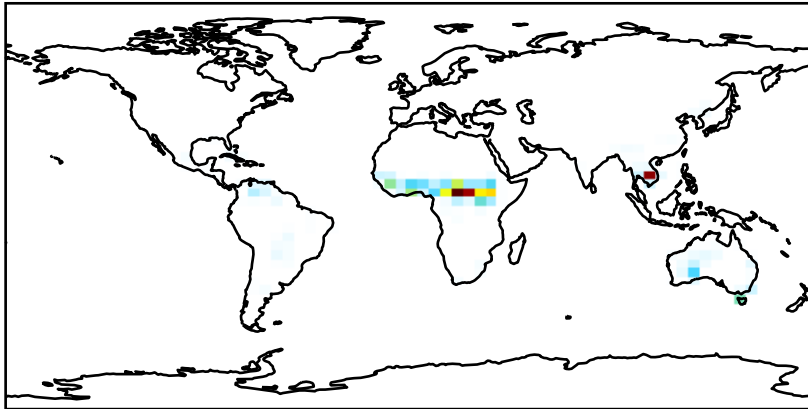
Ratio  
Dev/Ref, Fixed Range



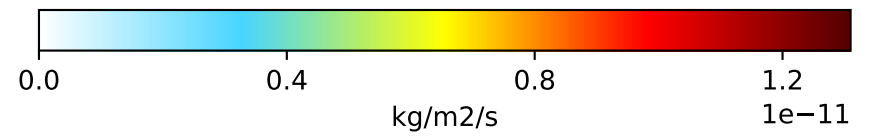
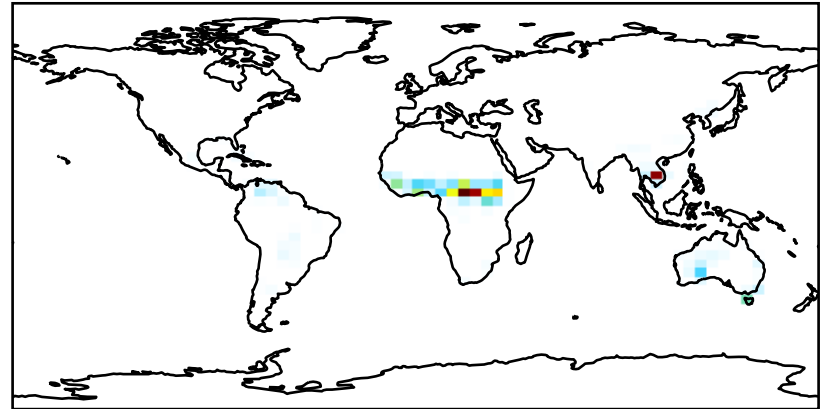


# EmisBCPO\_BioBurn

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



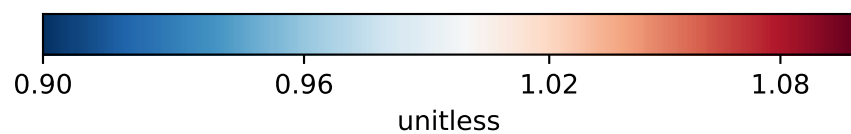
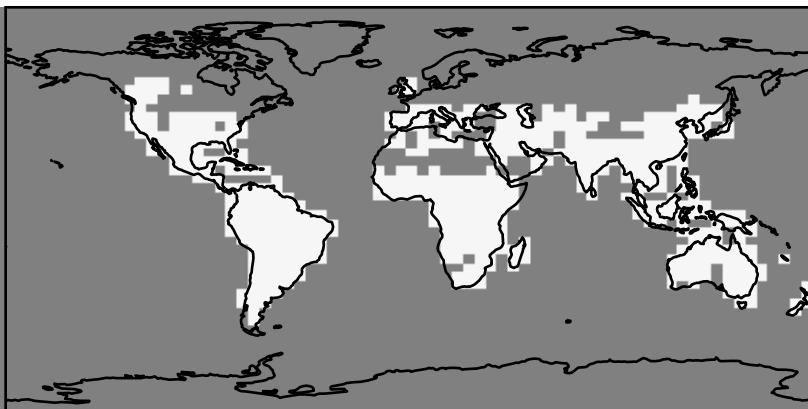
Difference  
Dev - Ref, Dynamic Range



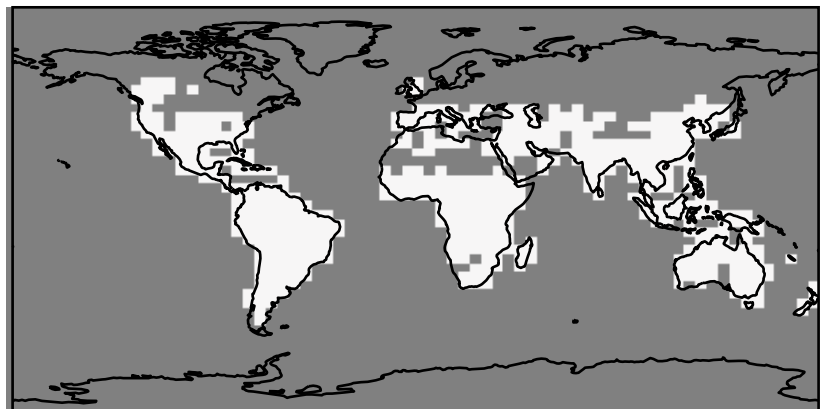
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

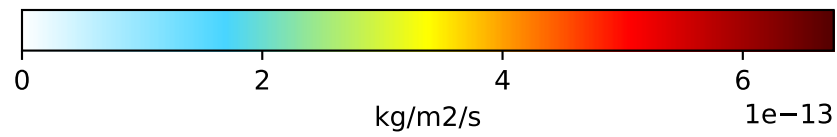
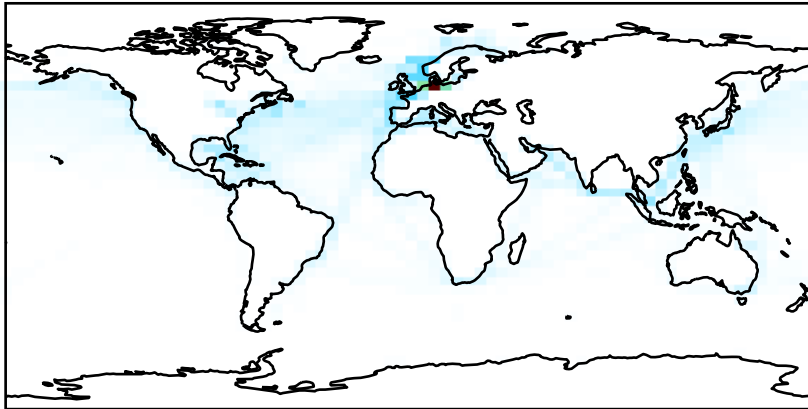


Ratio  
Dev/Ref, Fixed Range

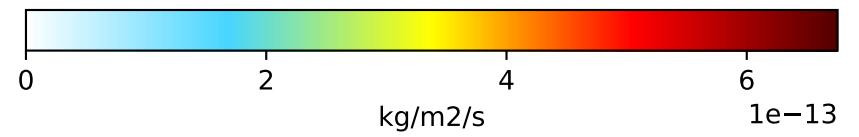
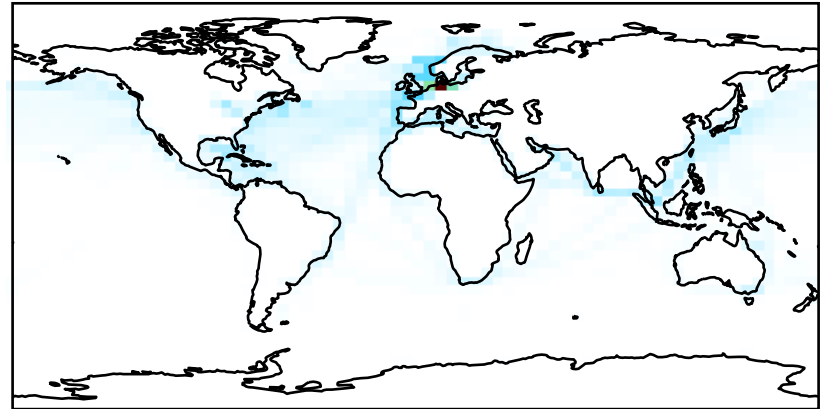


# EmisBCPO\_Ship

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



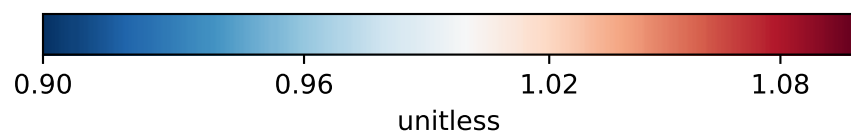
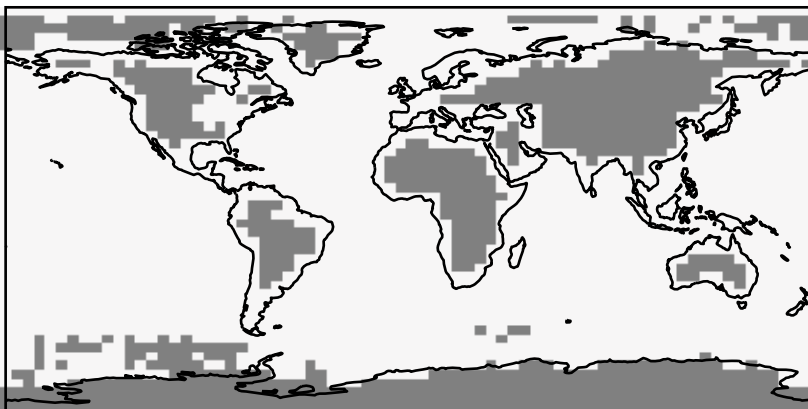
Difference  
Dev - Ref, Dynamic Range



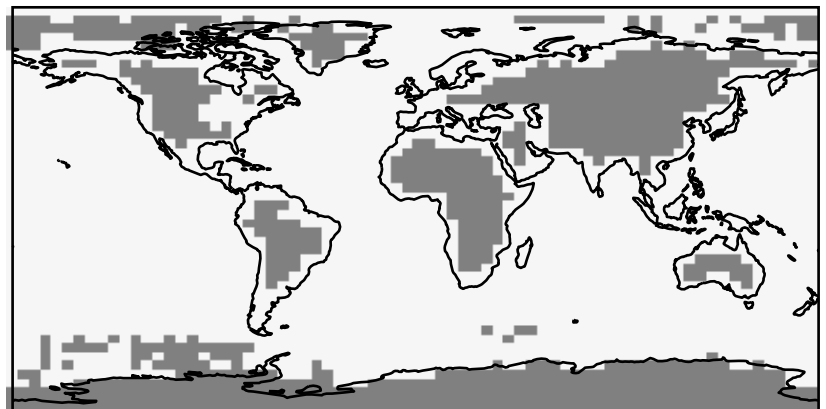
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

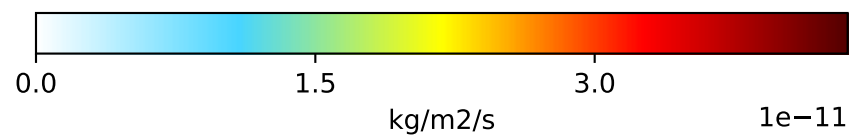
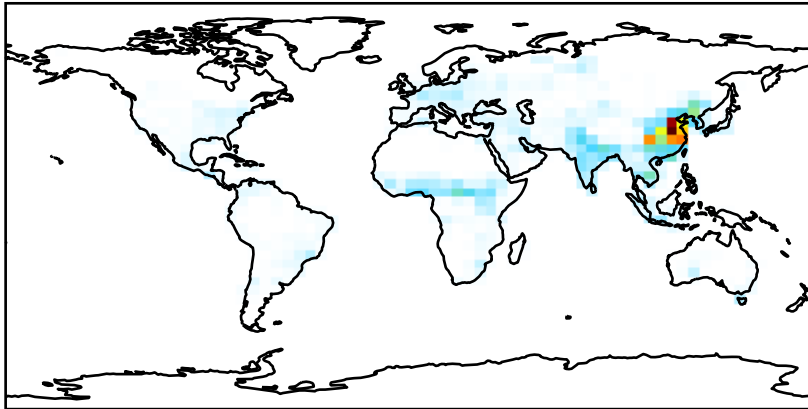


Ratio  
Dev/Ref, Fixed Range

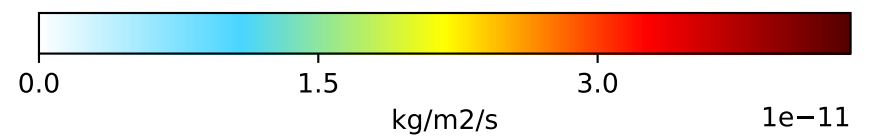
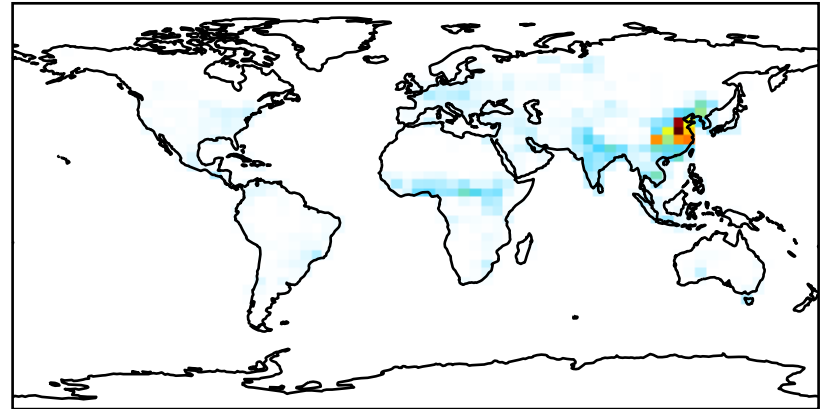


# EmisBCPO\_Total

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



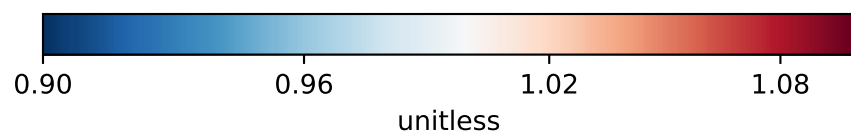
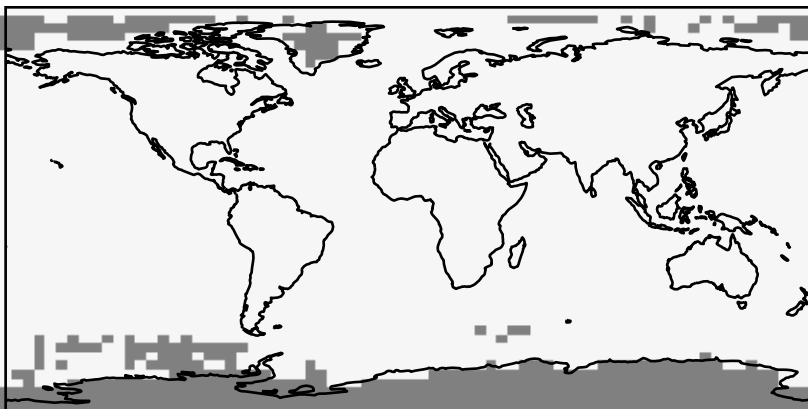
Difference  
Dev - Ref, Dynamic Range



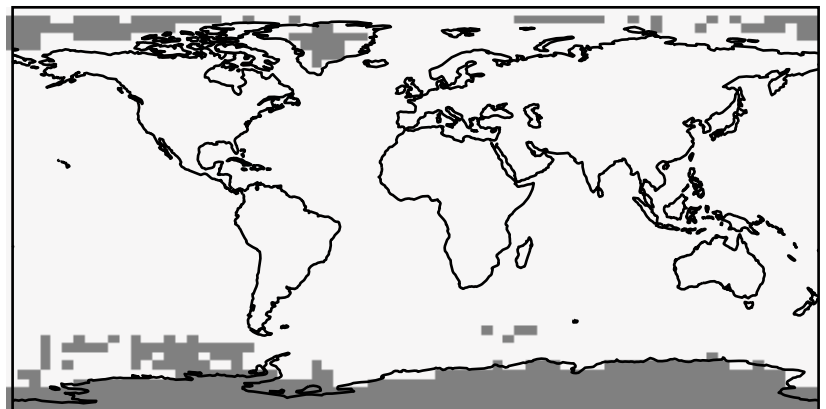
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

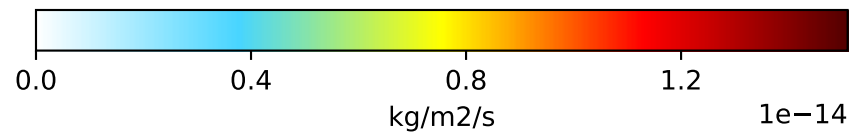
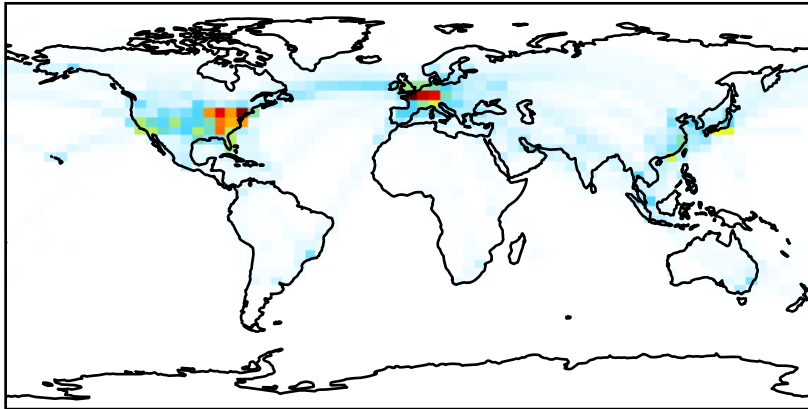


Ratio  
Dev/Ref, Fixed Range

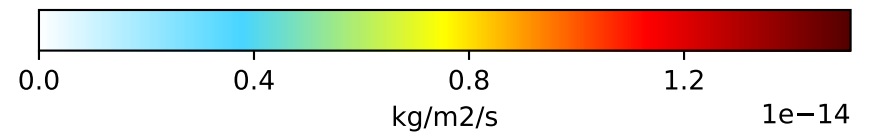
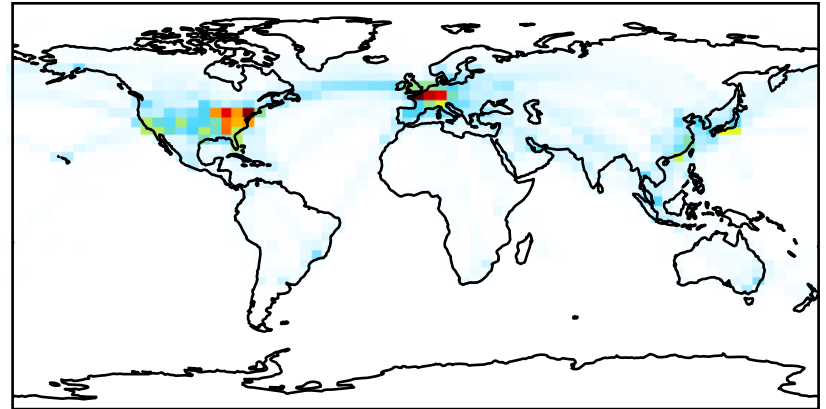


# EmisOCPI\_Aircraft

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



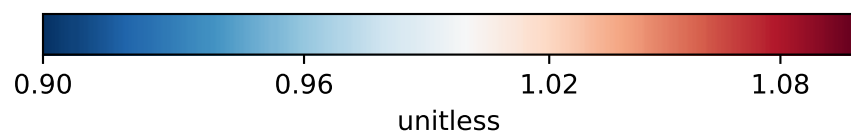
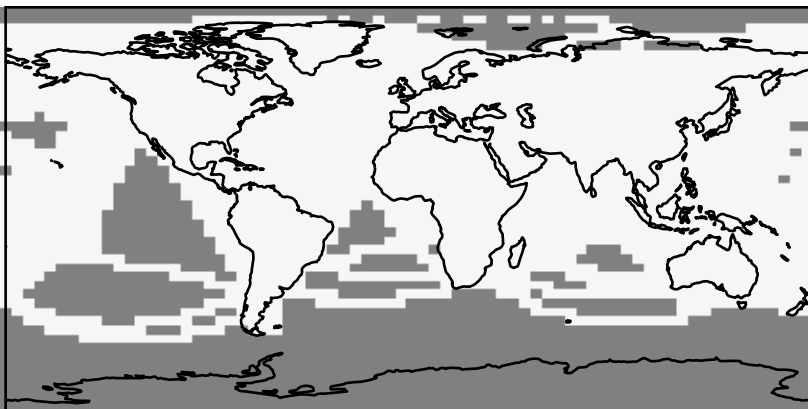
Difference  
Dev - Ref, Dynamic Range



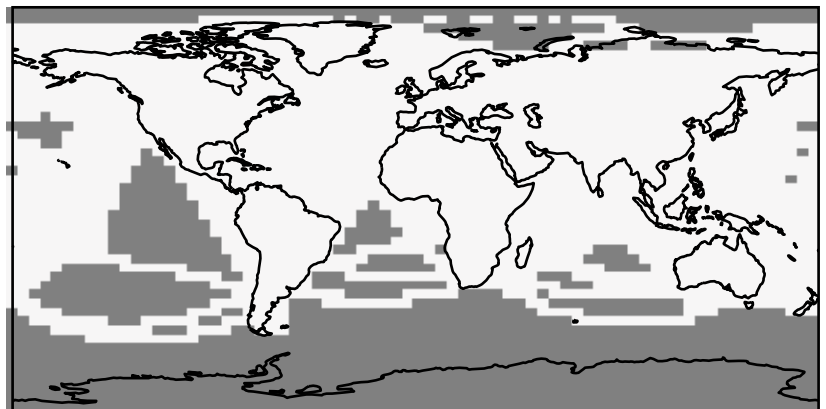
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

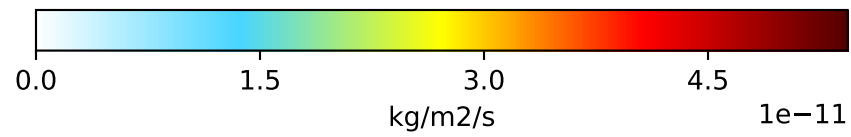
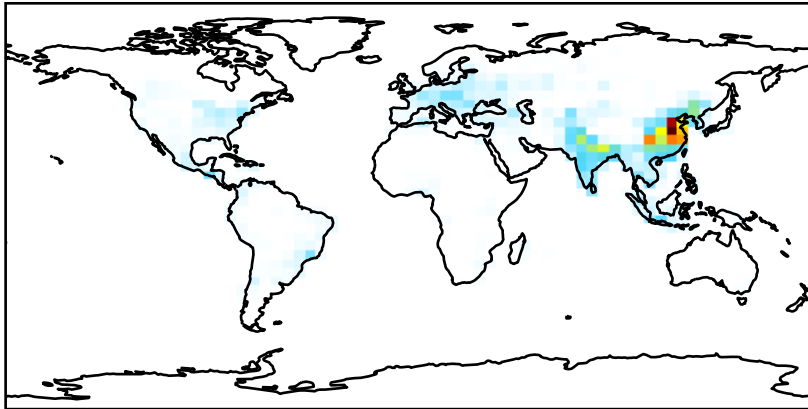


Ratio  
Dev/Ref, Fixed Range

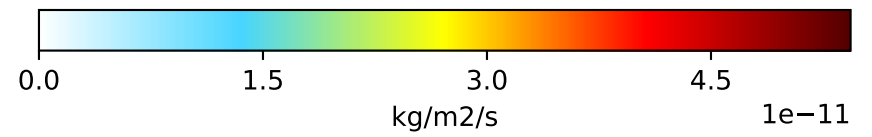
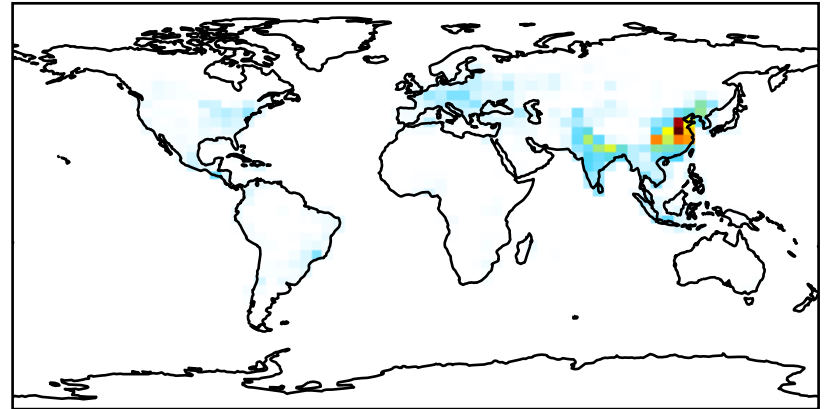


# EmisOCPI\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



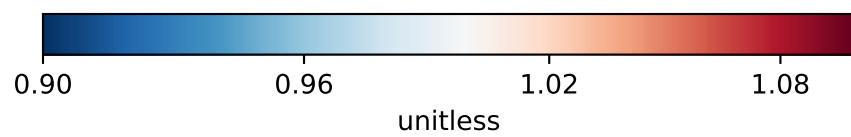
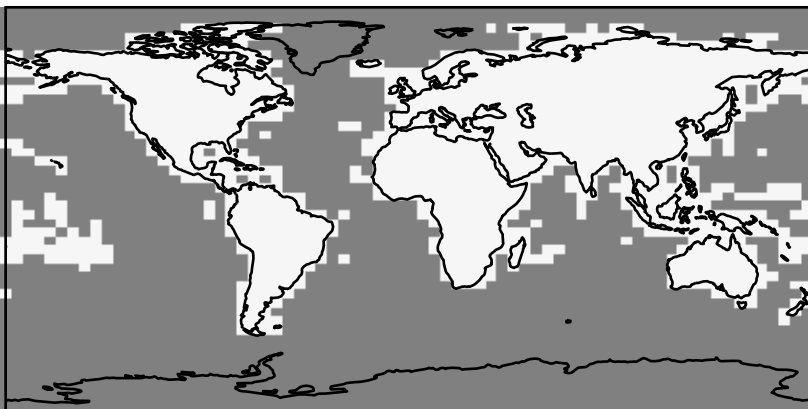
Difference  
Dev - Ref, Dynamic Range



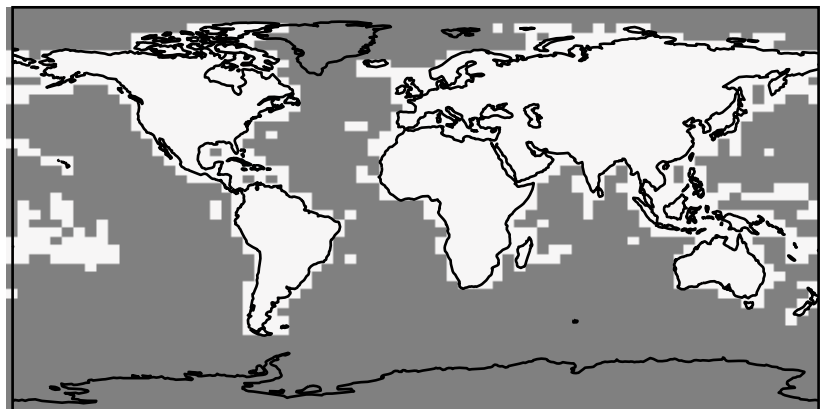
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

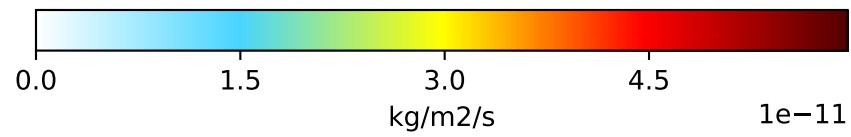
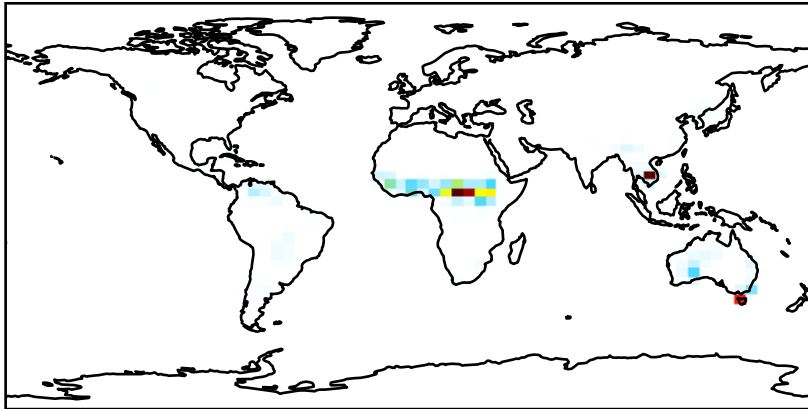


Ratio  
Dev/Ref, Fixed Range

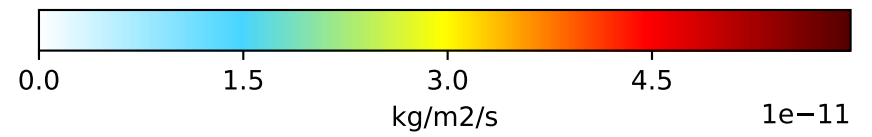
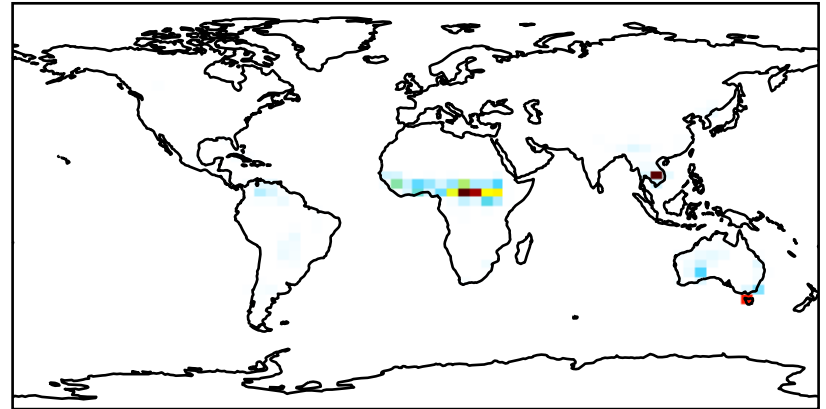


# EmisOCPI\_BioBurn

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



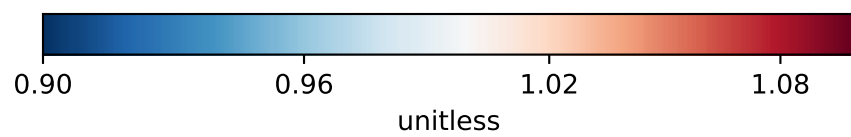
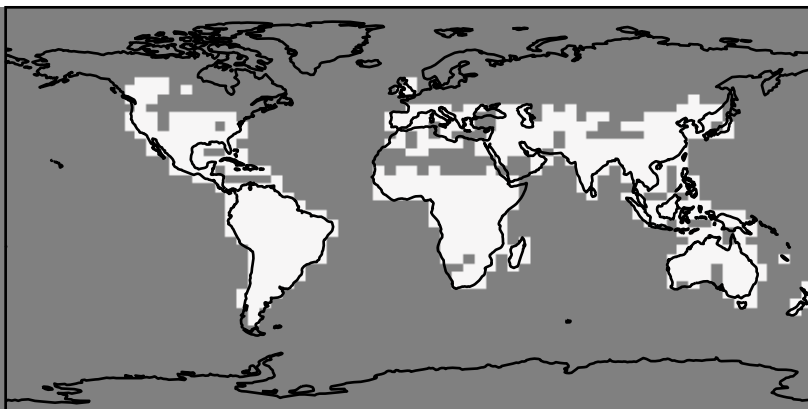
Difference  
Dev - Ref, Dynamic Range



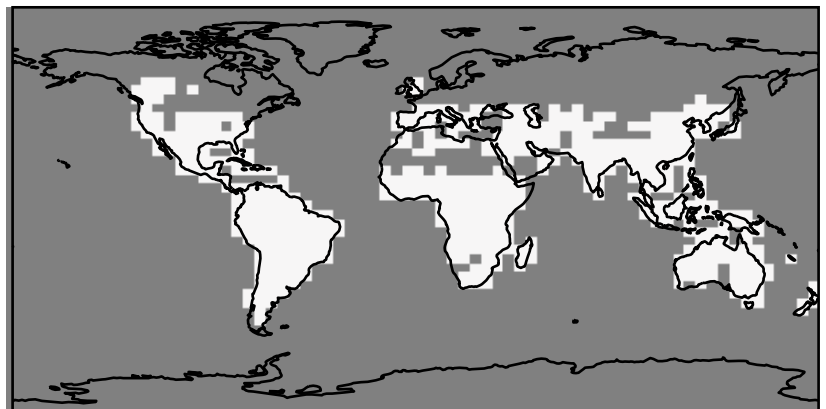
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

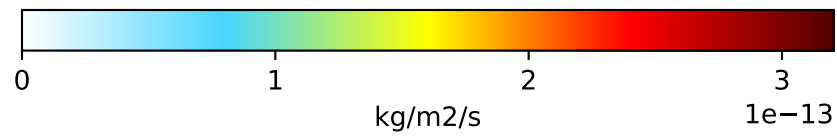
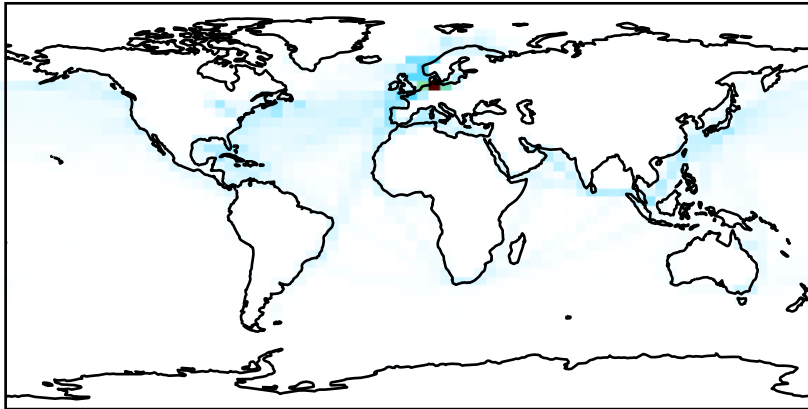


Ratio  
Dev/Ref, Fixed Range

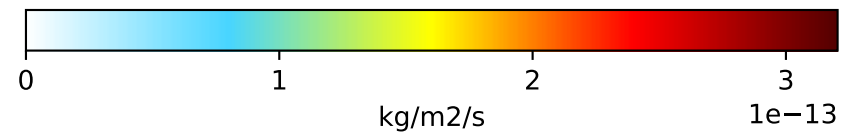
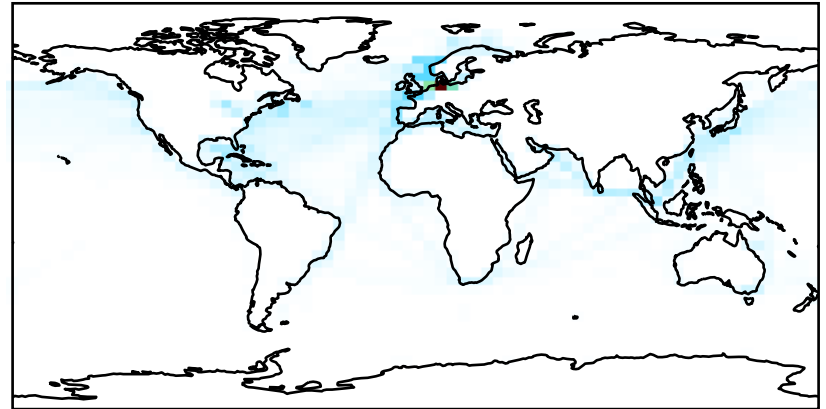


# EmisOCPI\_Ship

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



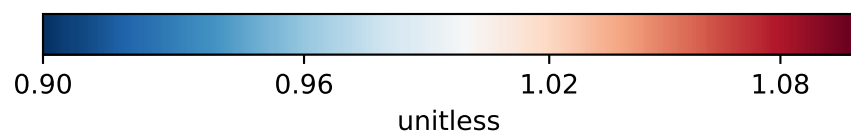
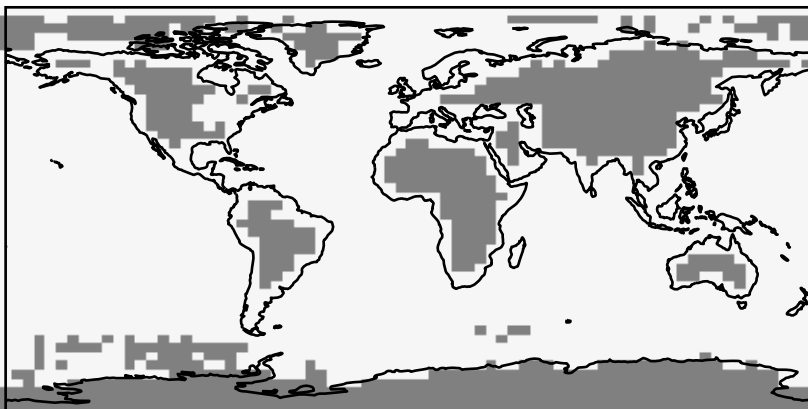
Difference  
Dev - Ref, Dynamic Range



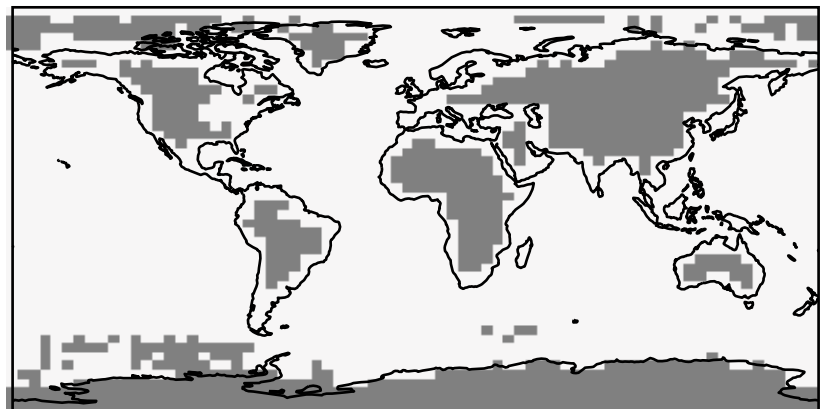
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

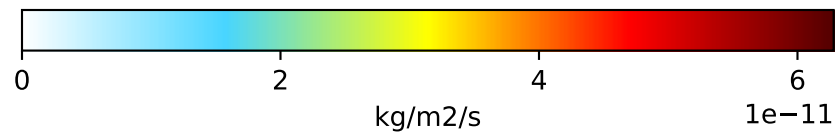
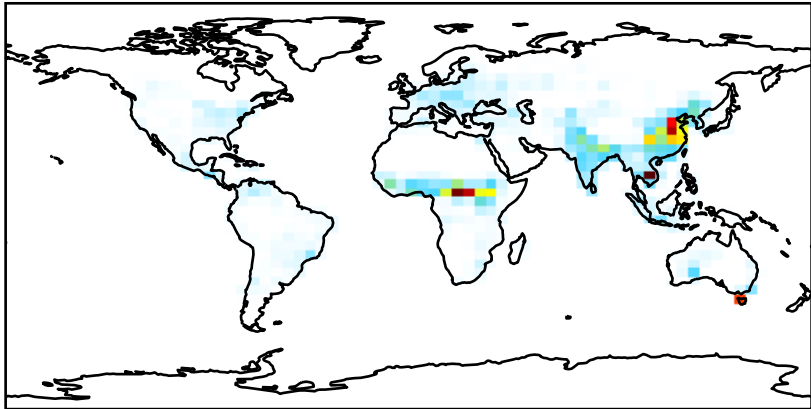


Ratio  
Dev/Ref, Fixed Range

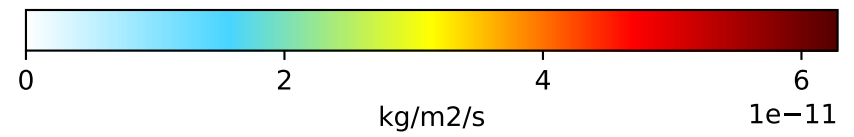
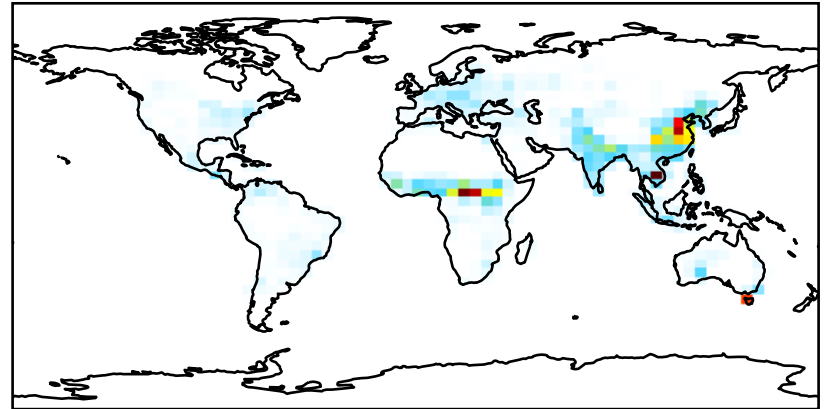


# EmisOCPI\_Total

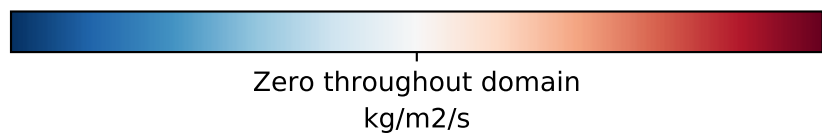
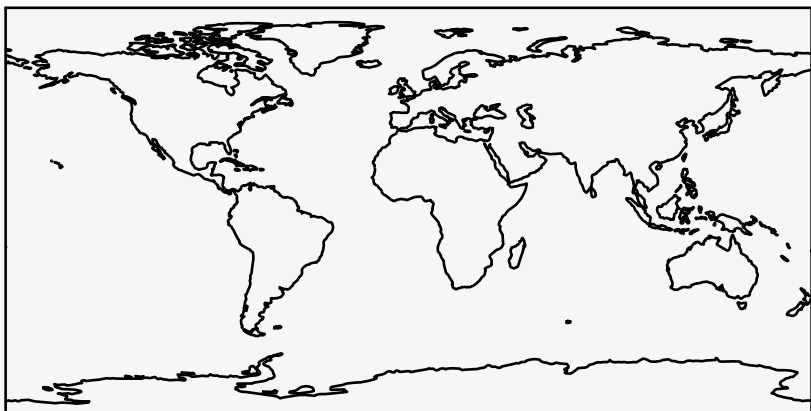
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



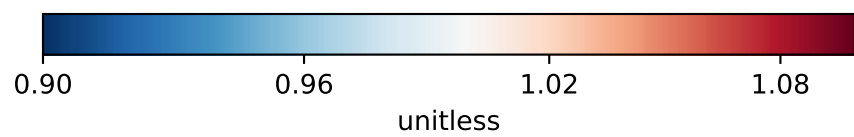
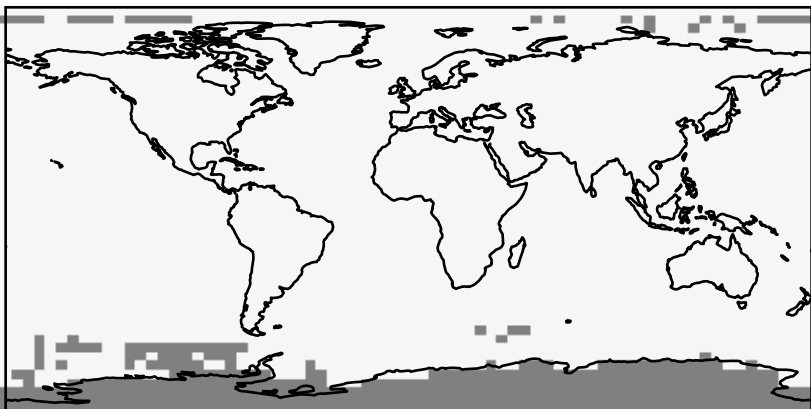
Difference  
Dev - Ref, Dynamic Range



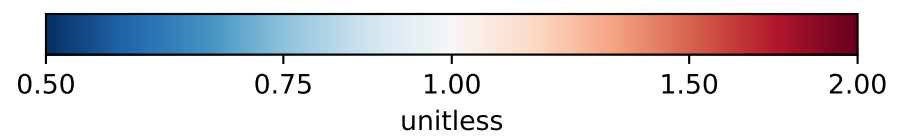
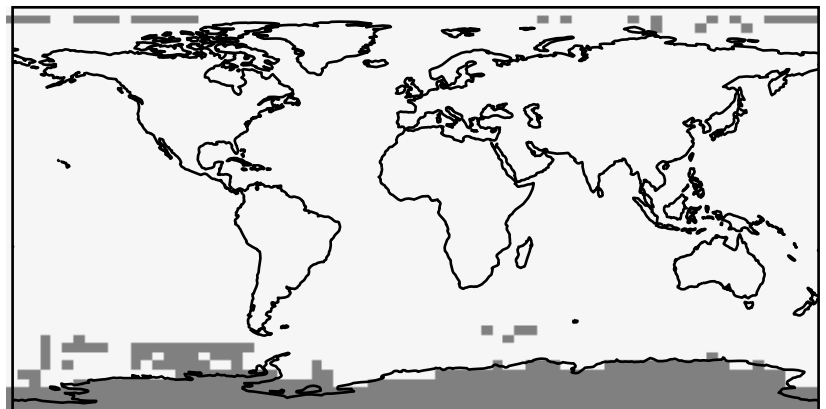
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



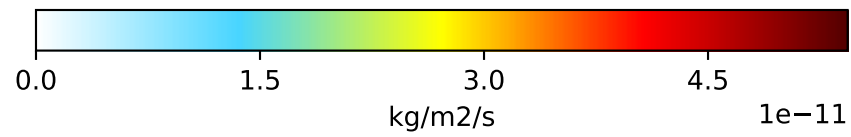
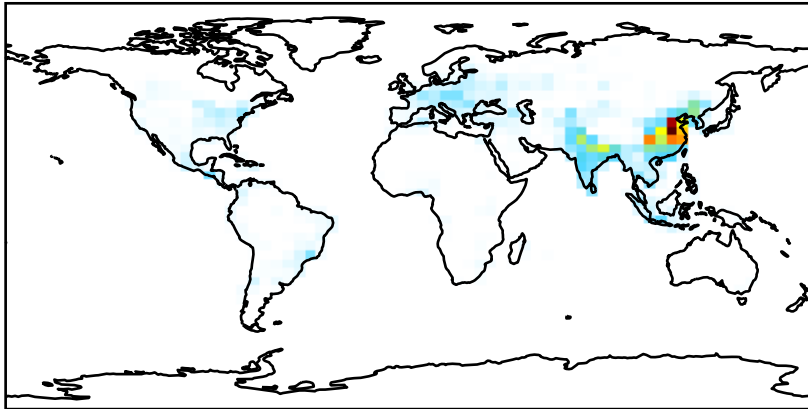
Ratio  
Dev/Ref, Fixed Range



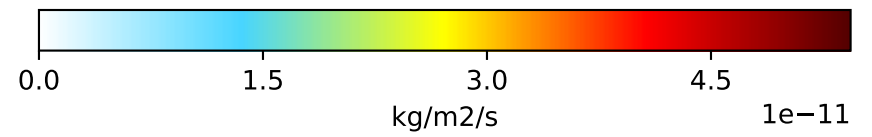
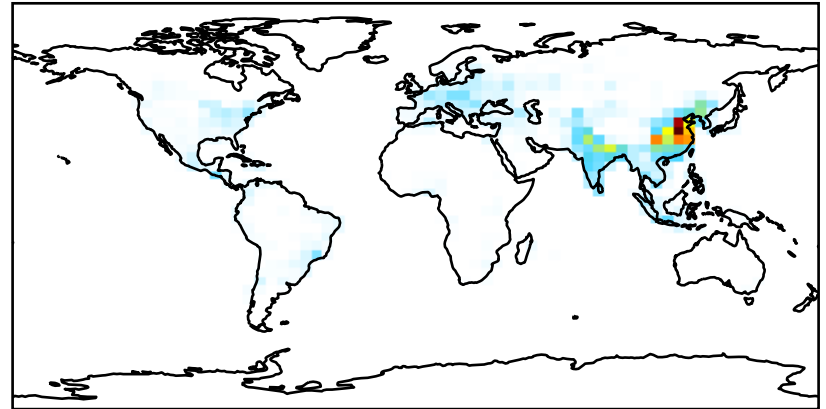


# EmisOCPO\_Anthro

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



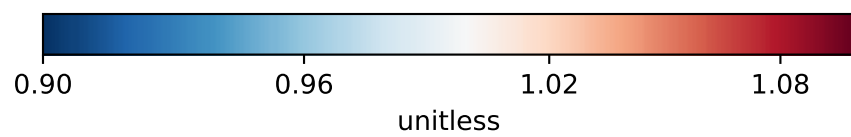
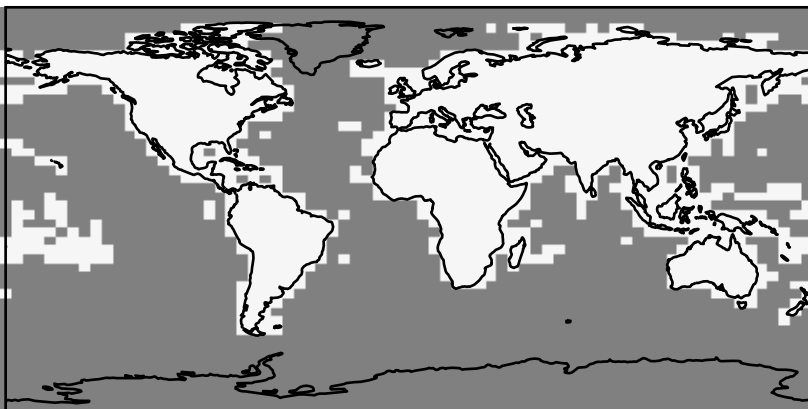
Difference  
Dev - Ref, Dynamic Range



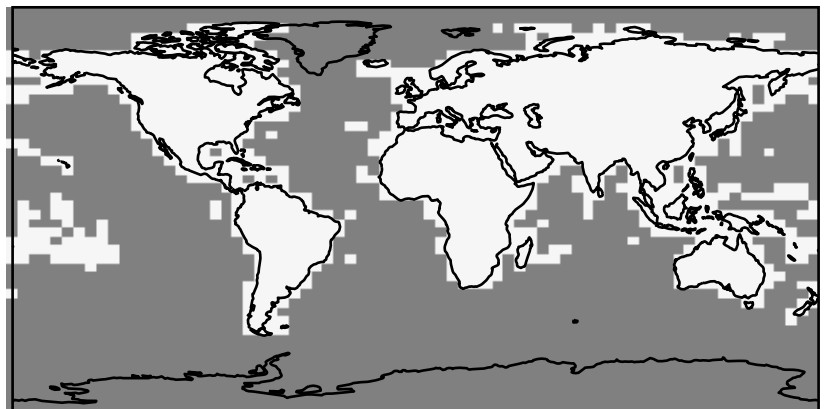
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

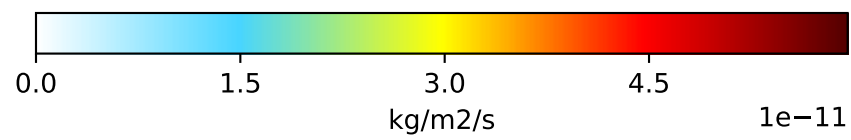
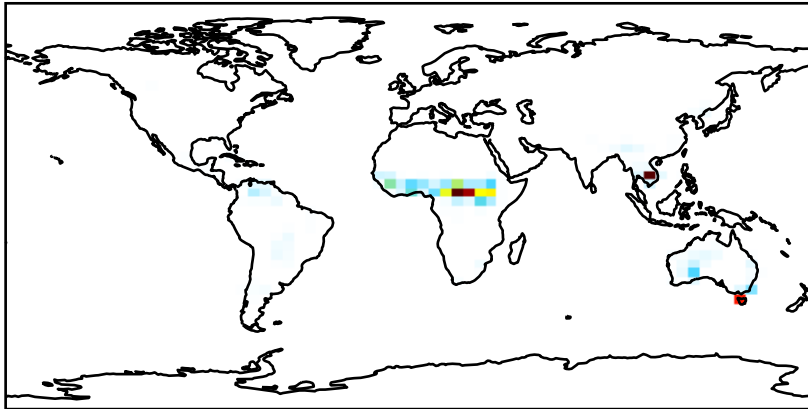


Ratio  
Dev/Ref, Fixed Range

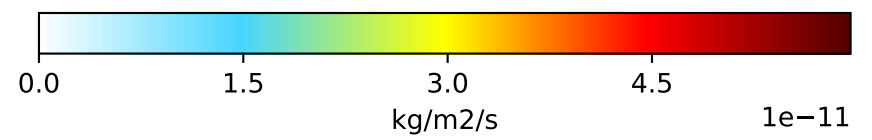
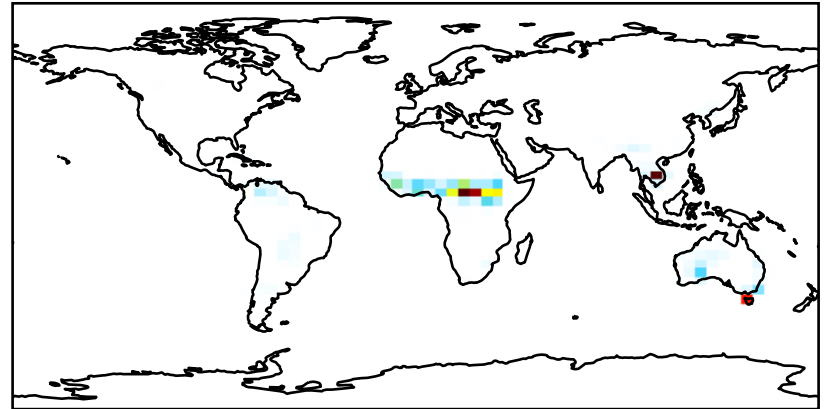


# EmisOCPO\_BioBurn

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



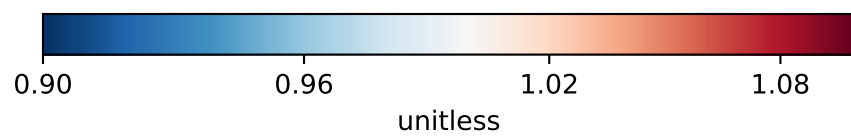
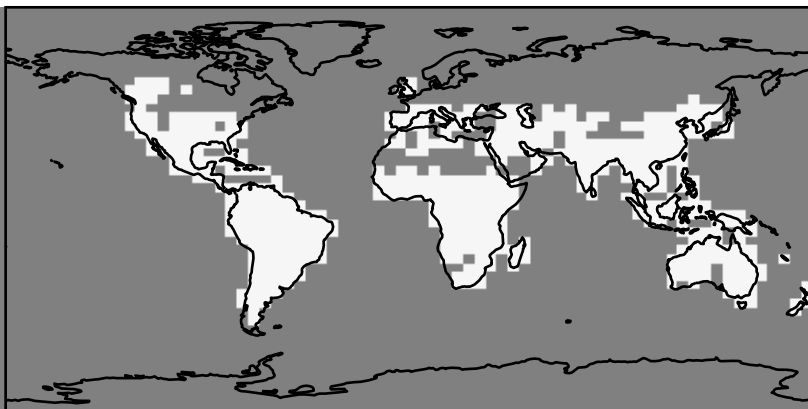
Difference  
Dev - Ref, Dynamic Range



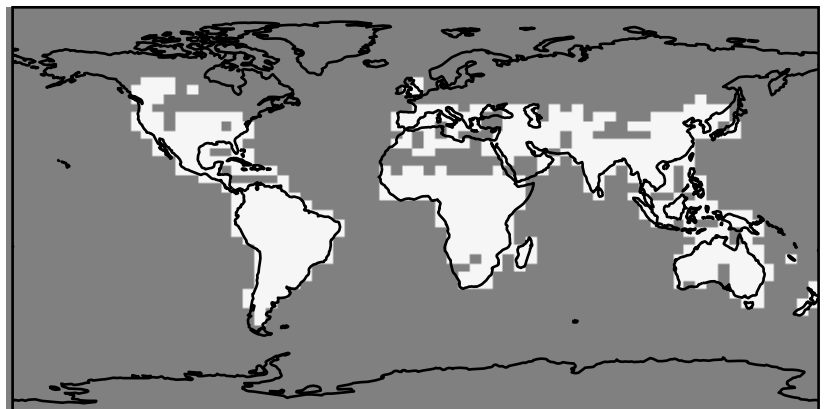
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

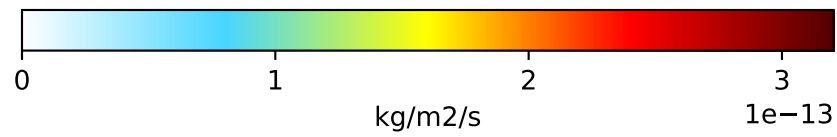
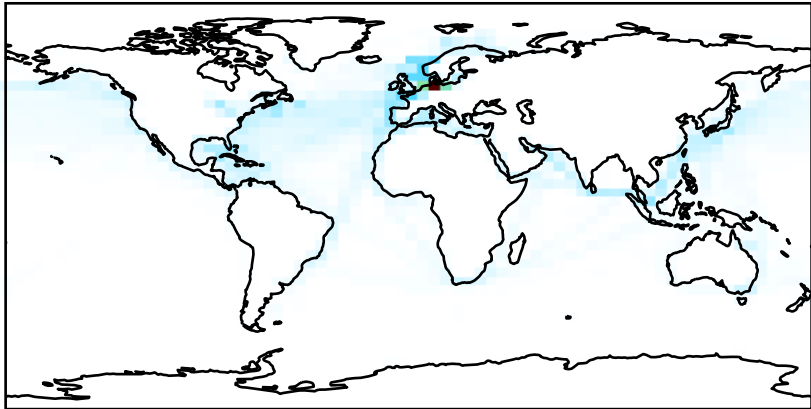


Ratio  
Dev/Ref, Fixed Range

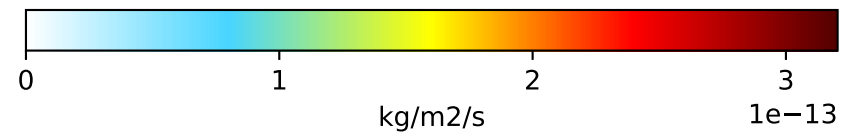
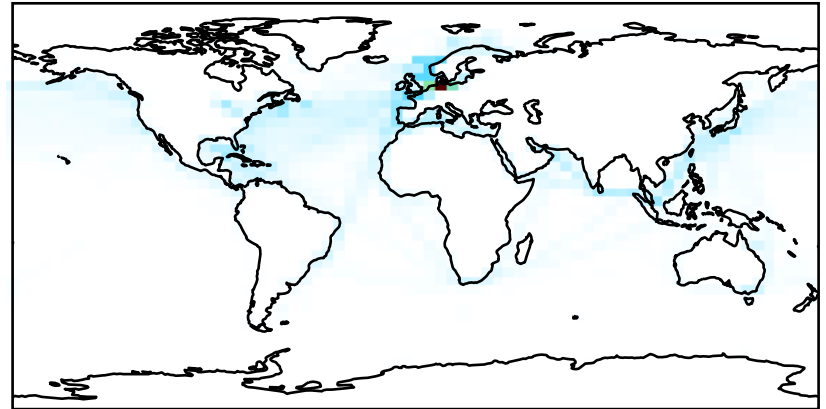


# EmisOCPO\_Ship

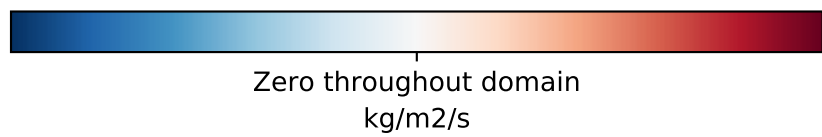
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



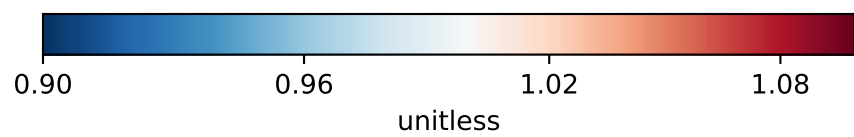
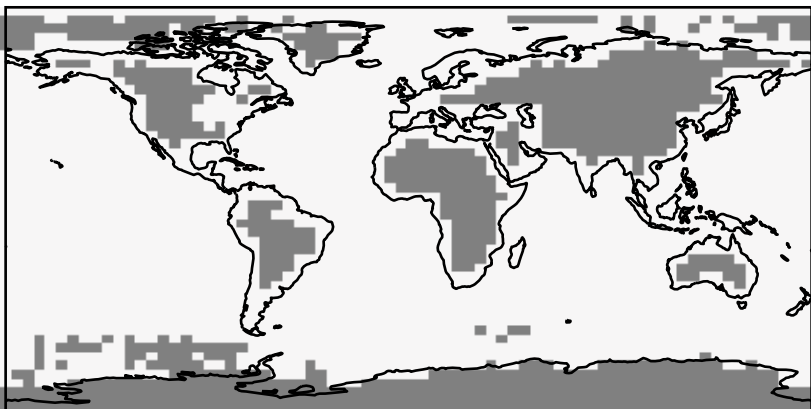
Difference  
Dev - Ref, Dynamic Range



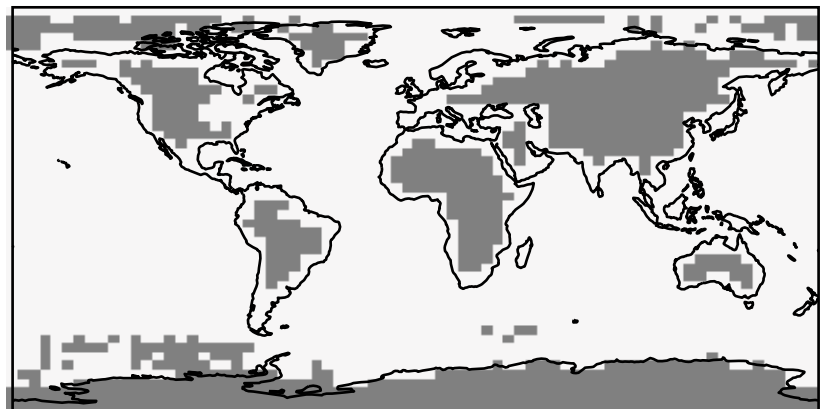
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

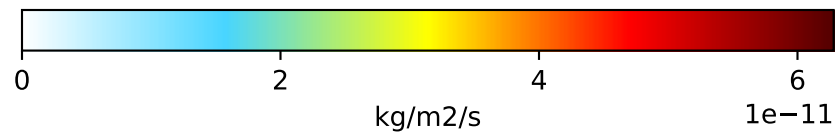
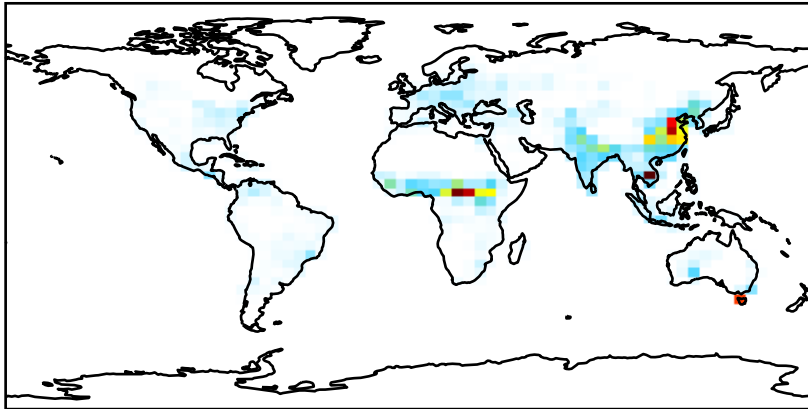


Ratio  
Dev/Ref, Fixed Range

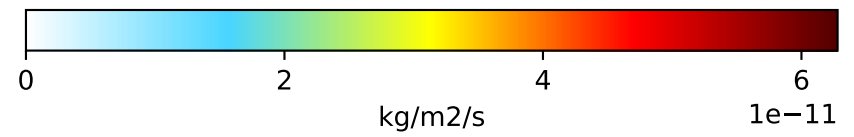
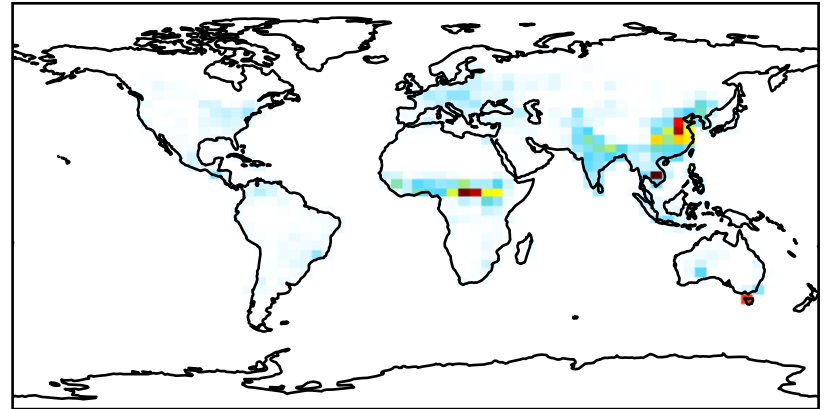


# EmisOCPO\_Total

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



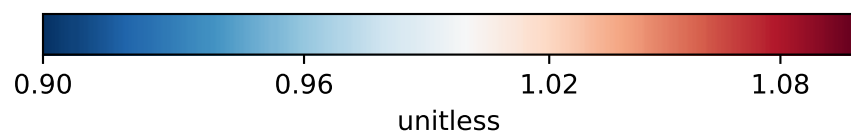
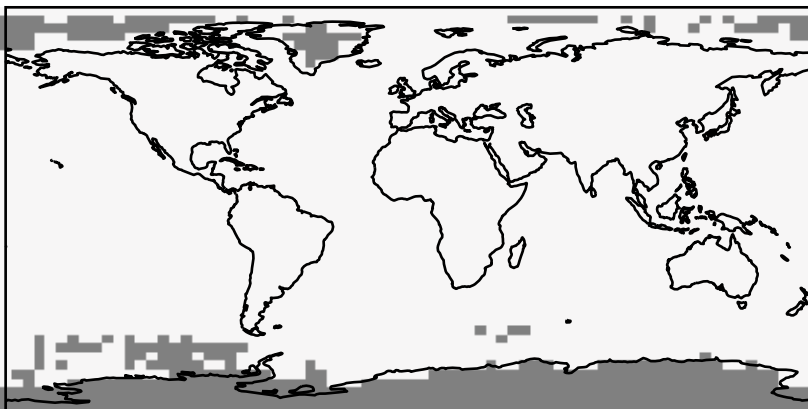
Difference  
Dev - Ref, Dynamic Range



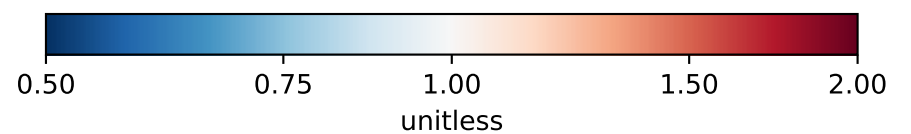
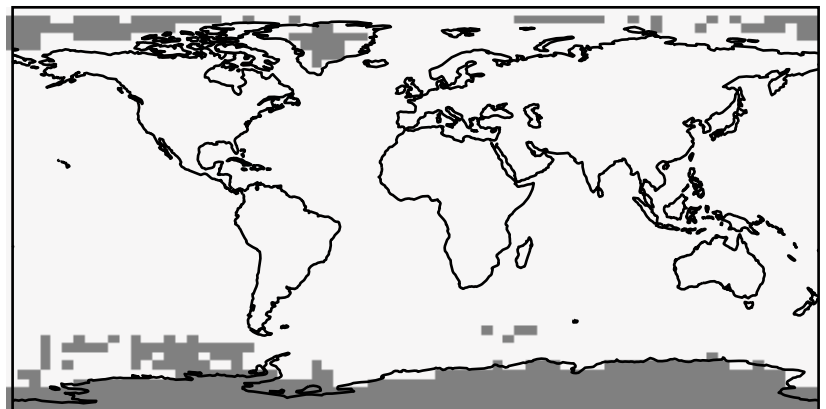
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range



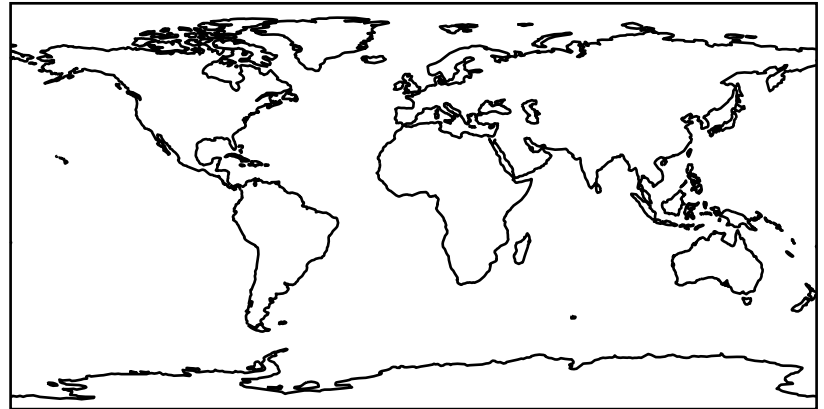
# EmisBrSALA\_Natural

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



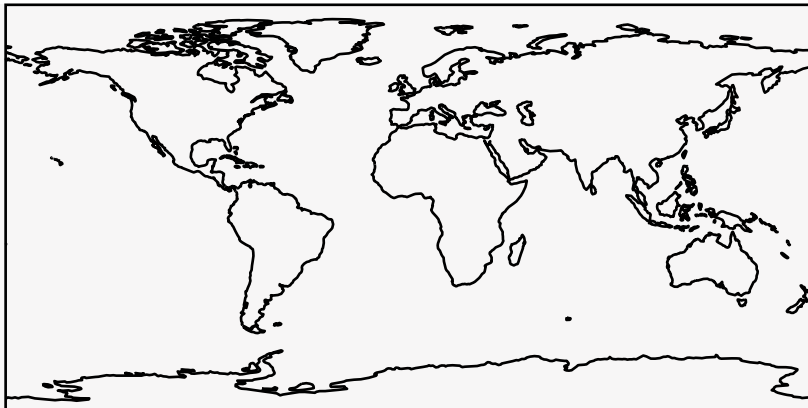
Zero throughout domain  
kg/m2/s

GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



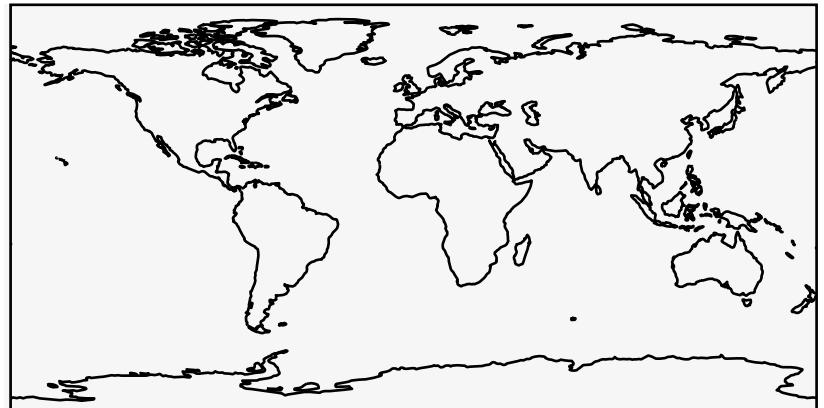
Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



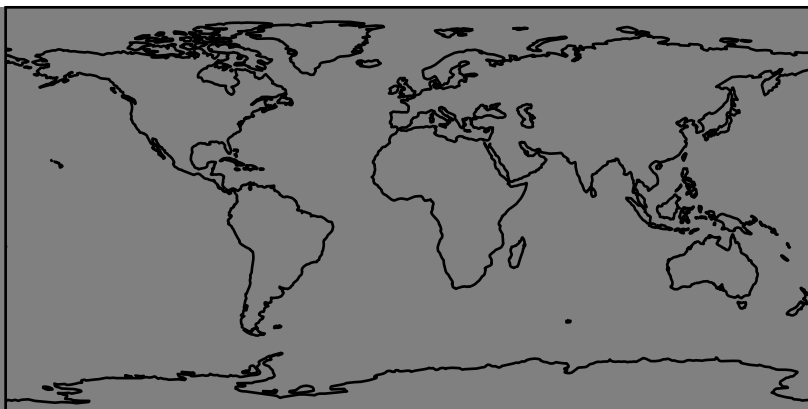
Zero throughout domain  
kg/m2/s

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



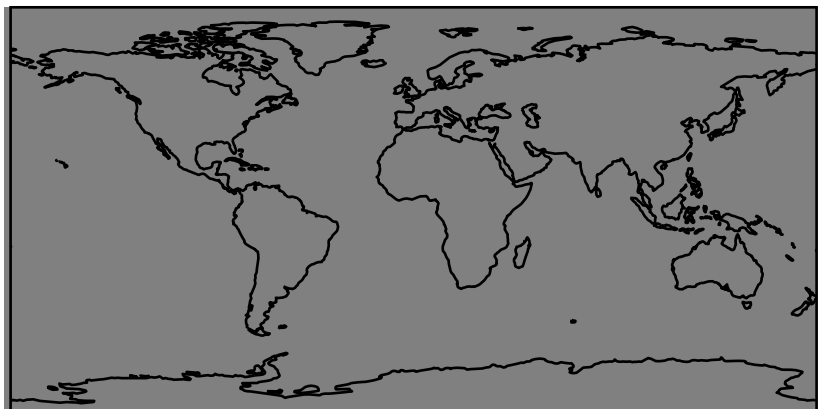
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

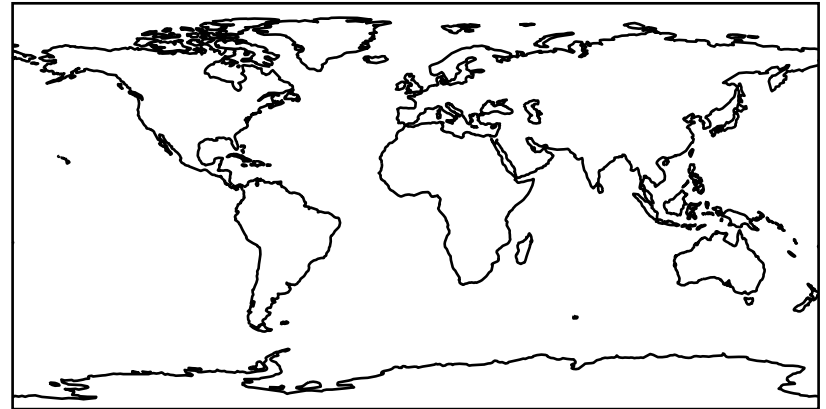
# EmisBrSALC\_Natural

GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



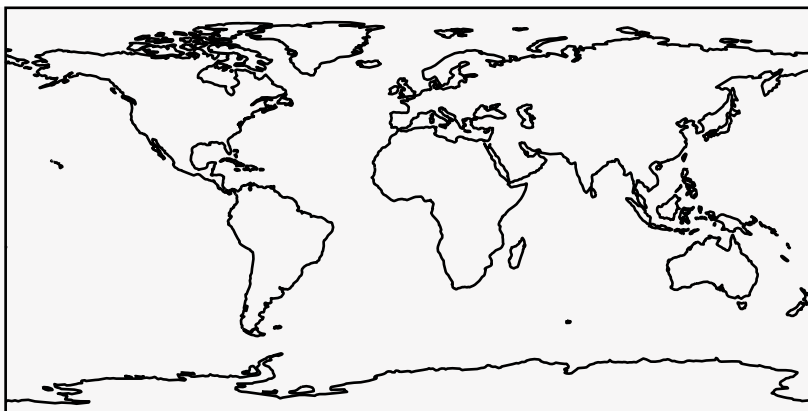
Zero throughout domain  
kg/m2/s

GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



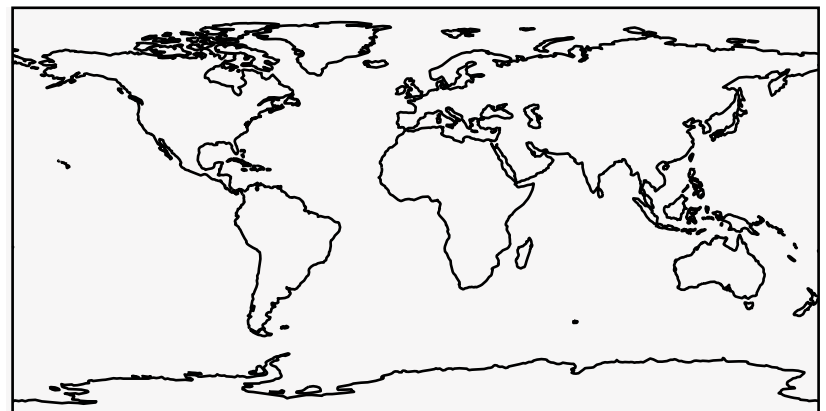
Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



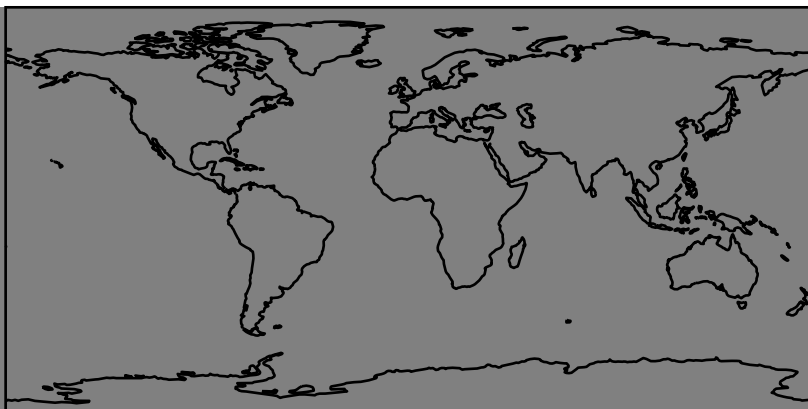
Zero throughout domain  
kg/m2/s

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



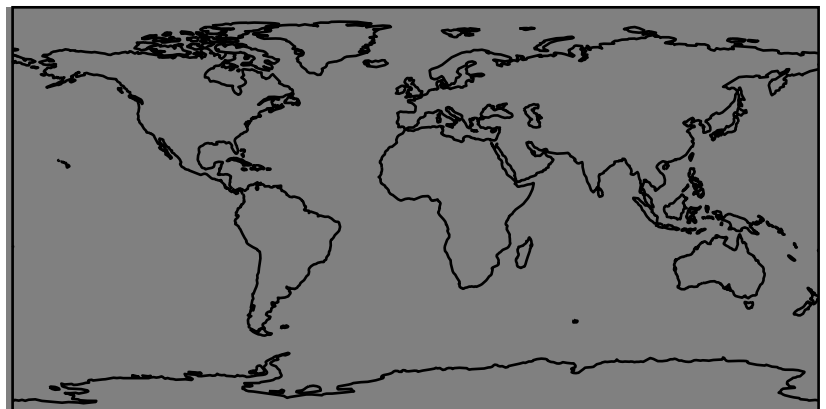
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

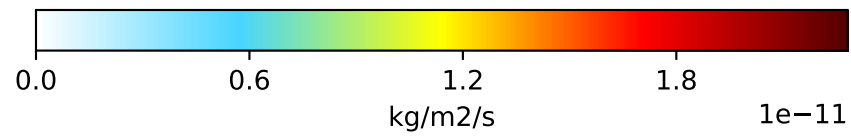
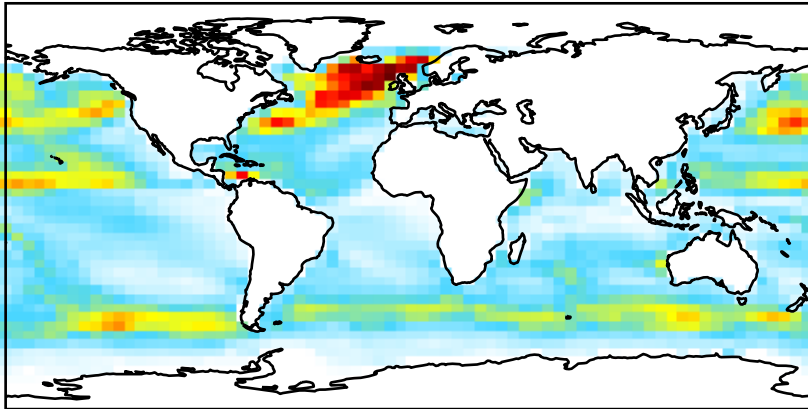
Ratio  
Dev/Ref, Fixed Range



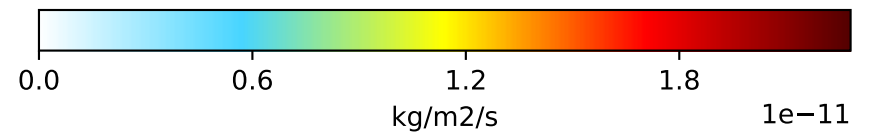
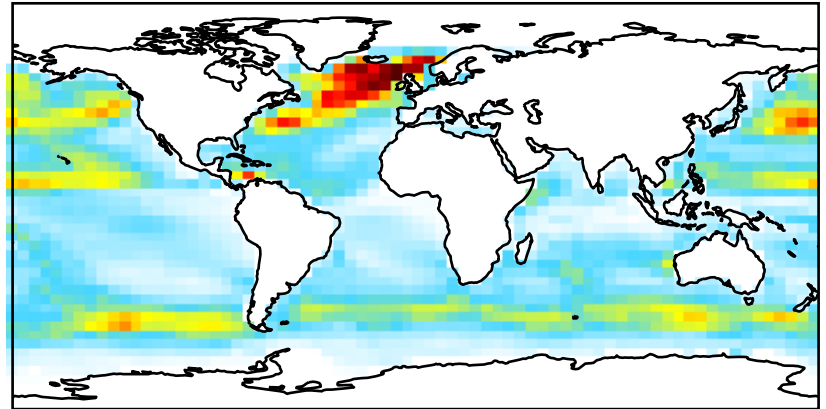
Undefined throughout domain  
unitless

# EmisSALA\_Natural

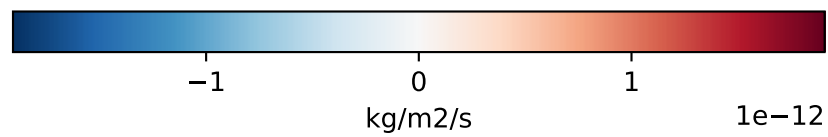
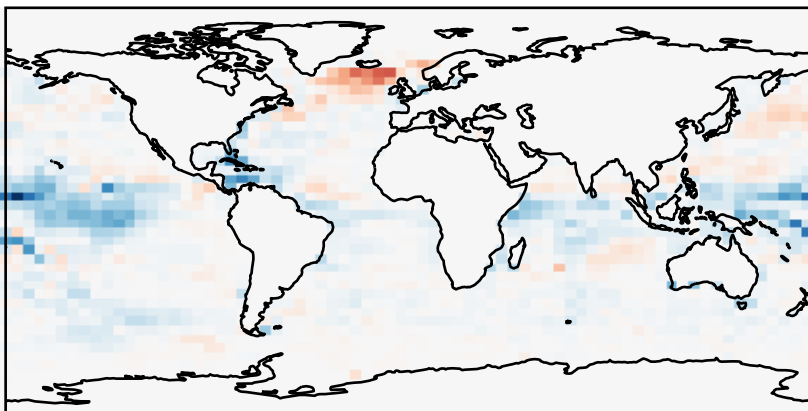
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



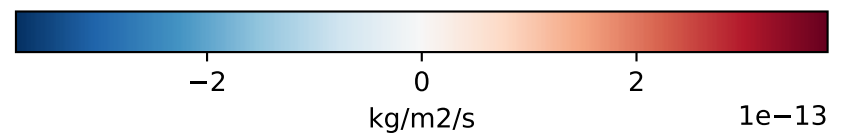
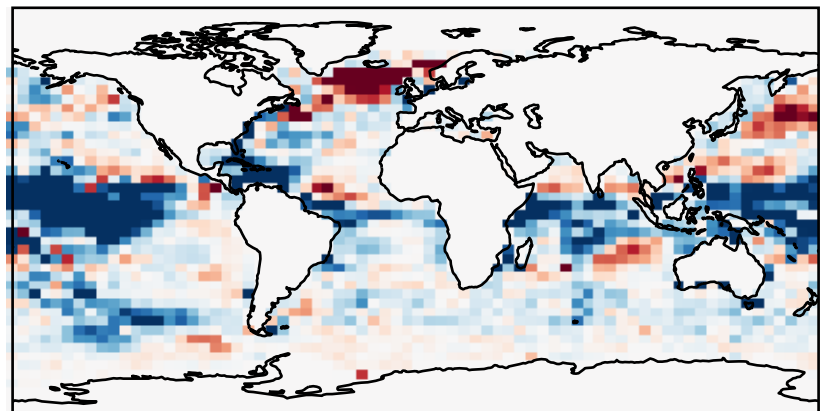
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



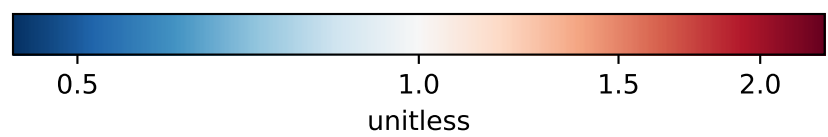
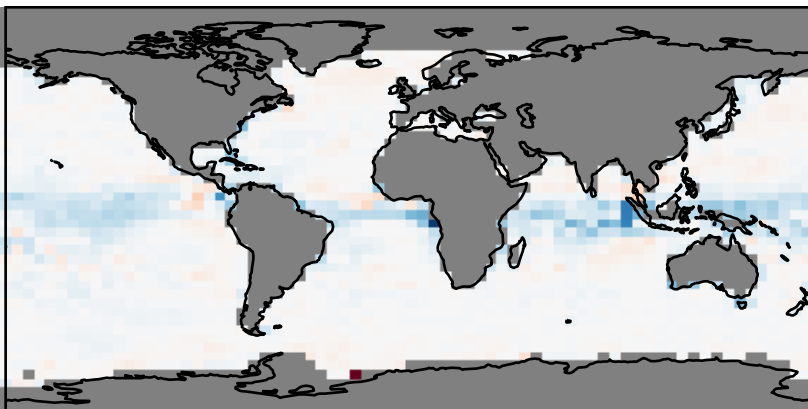
Difference  
Dev - Ref, Dynamic Range



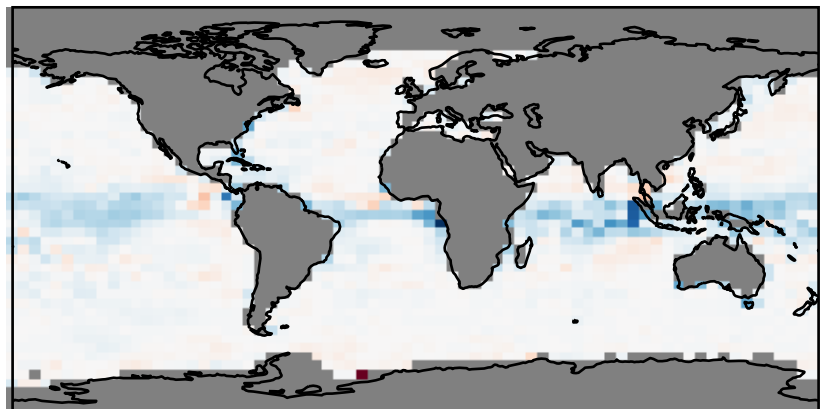
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

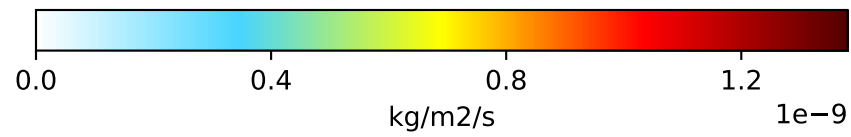
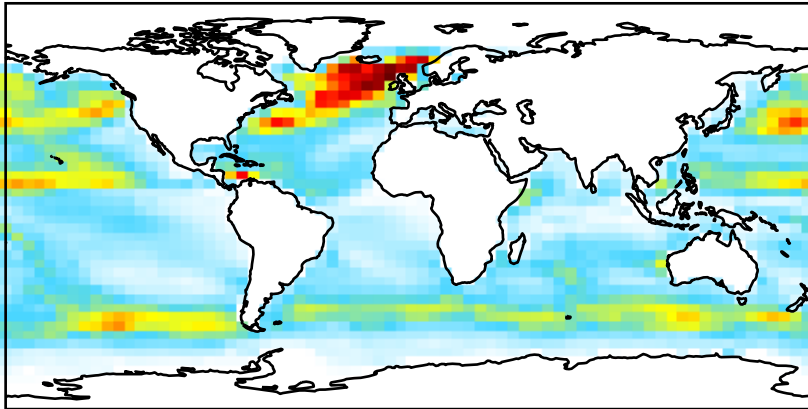


Ratio  
Dev/Ref, Fixed Range

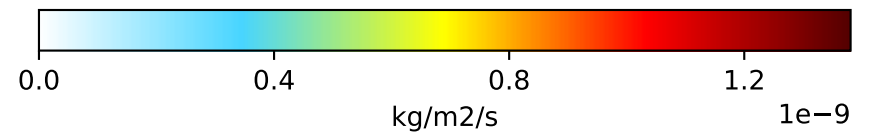
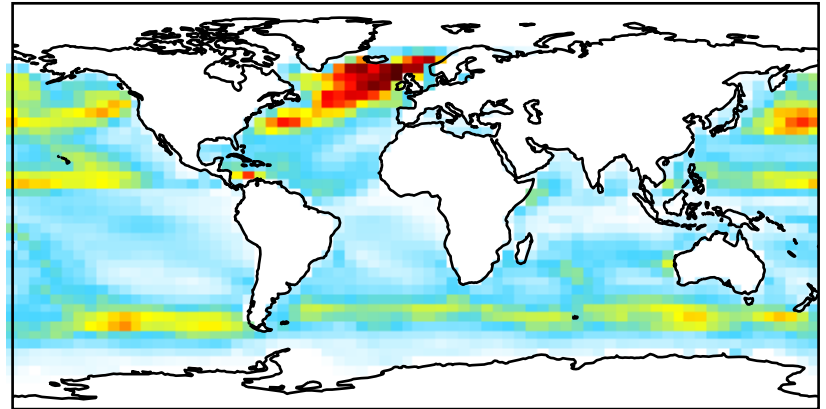


# EmisSALC\_Natural

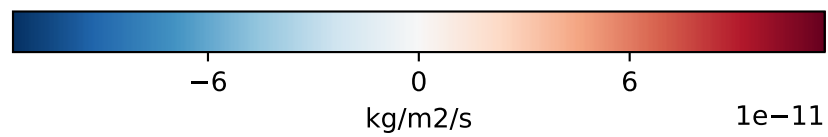
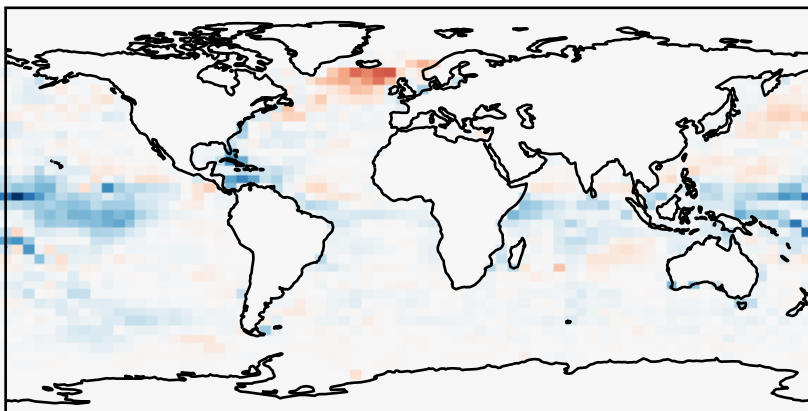
GC\_12.8.0\_GEOSFP\_5.22 (Ref)  
4.0x5.0



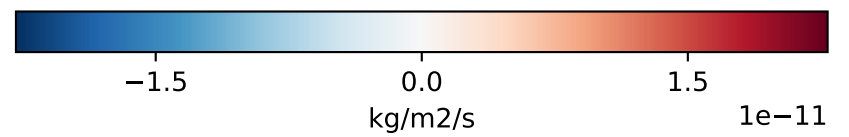
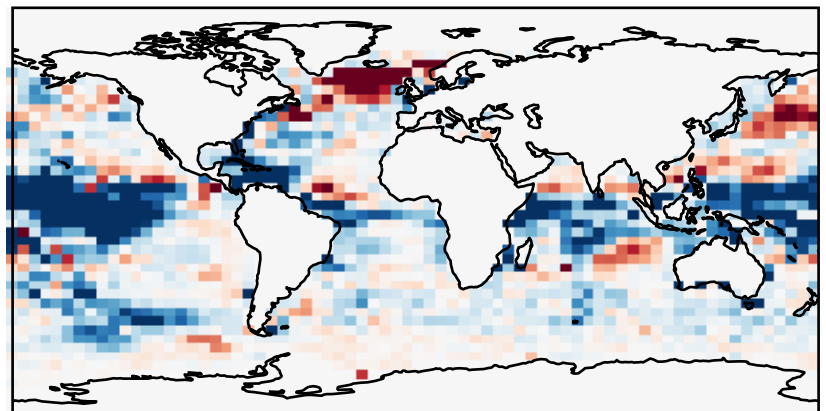
GC\_12.8.0\_GEOSFP\_5.25 (Dev)  
4.0x5.0



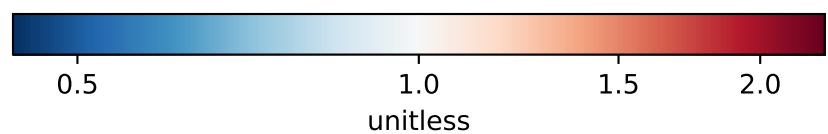
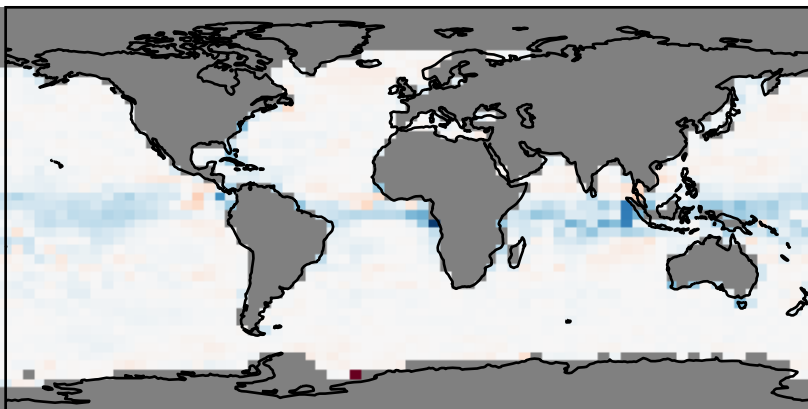
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

