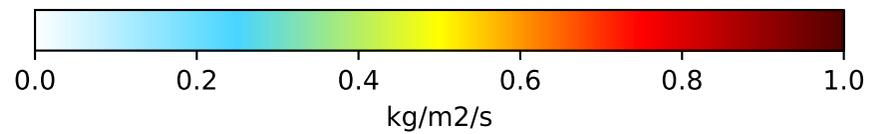
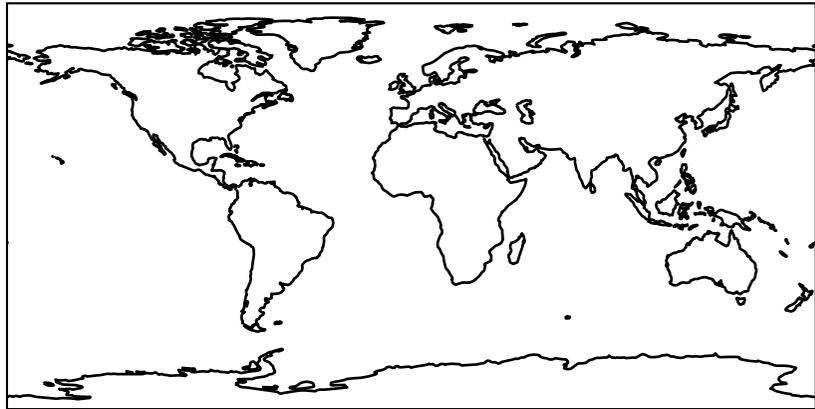
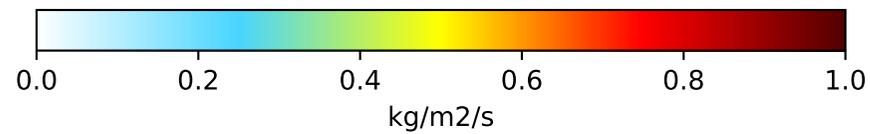
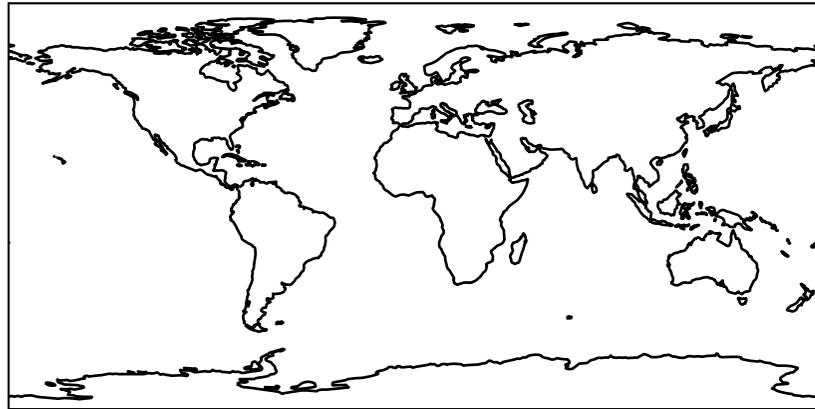


# EmisDMS\_Ocean

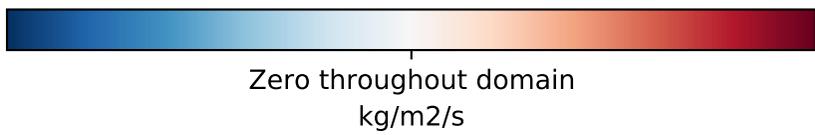
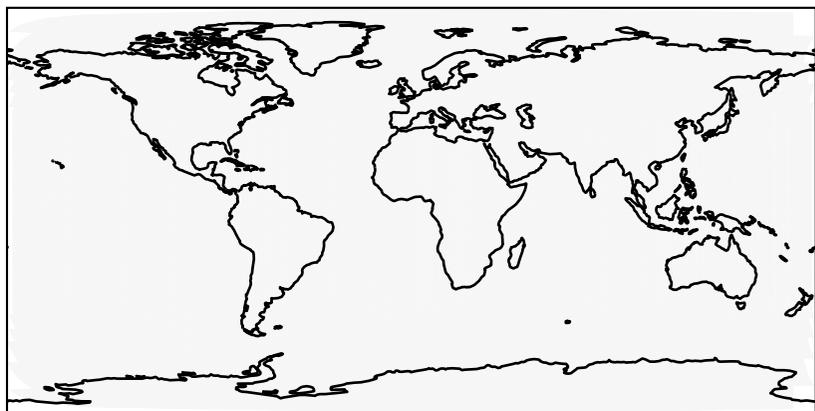
GCHP\_13.0.0-rc.2 (Ref)  
c48



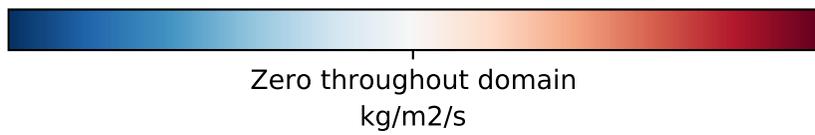
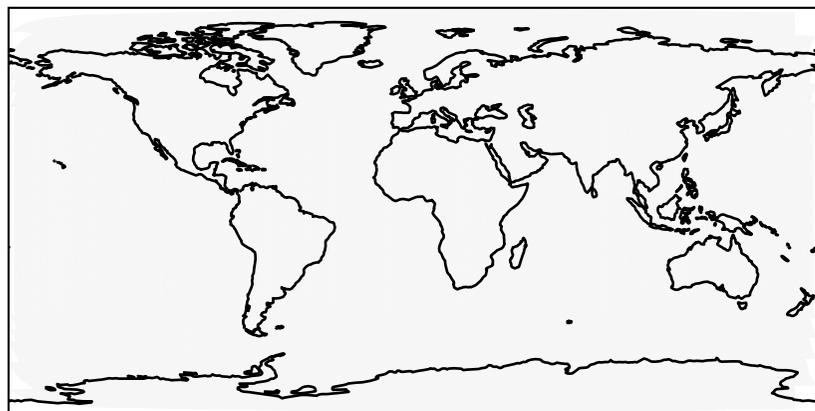
GCHP\_13.1.0-beta.1 (Dev)  
c48



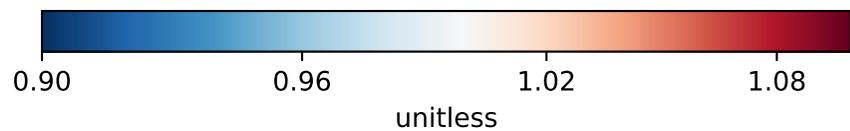
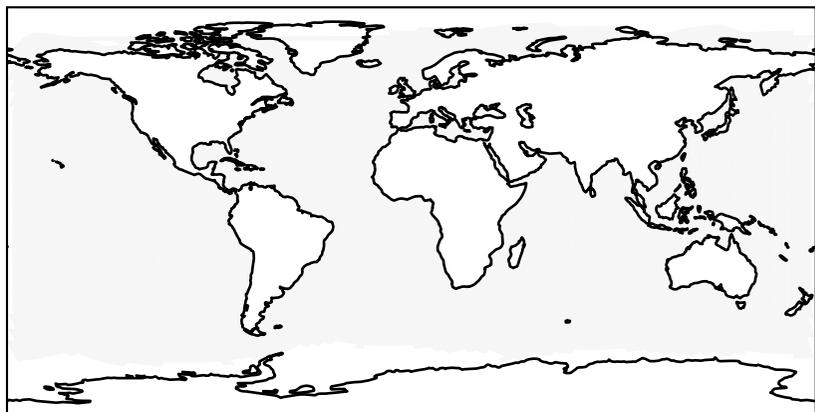
Difference  
Dev - Ref, Dynamic Range



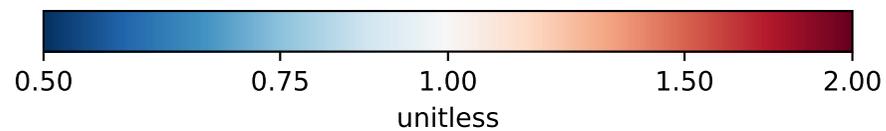
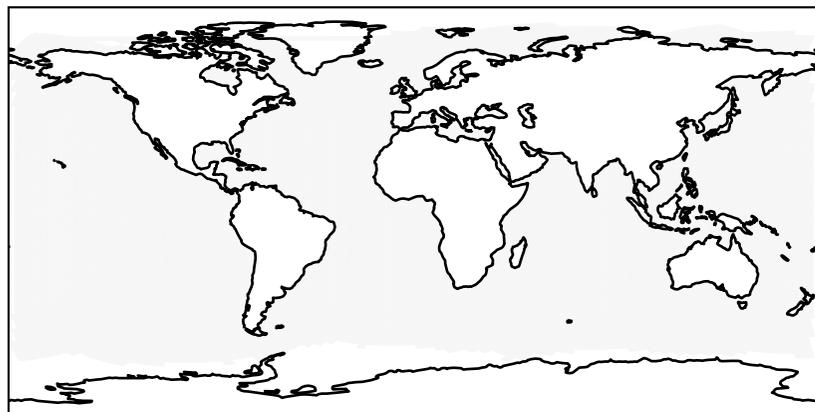
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

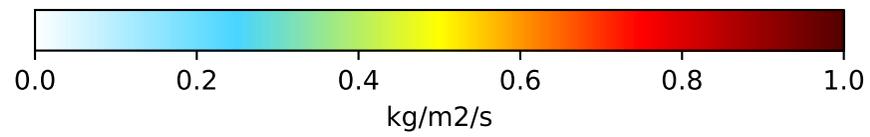
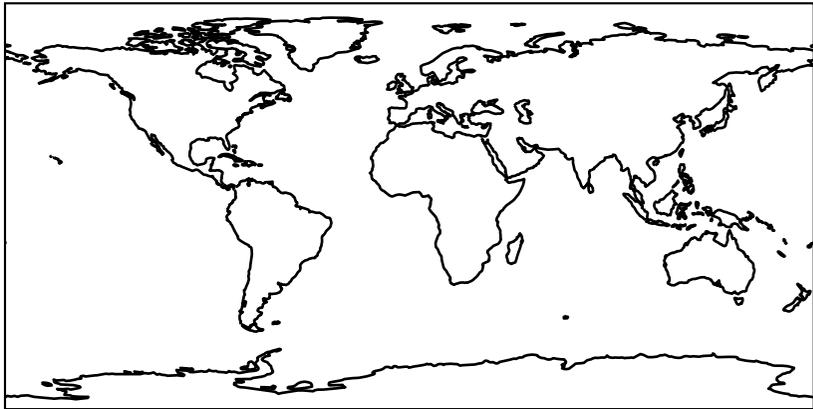


Ratio  
Dev/Ref, Fixed Range

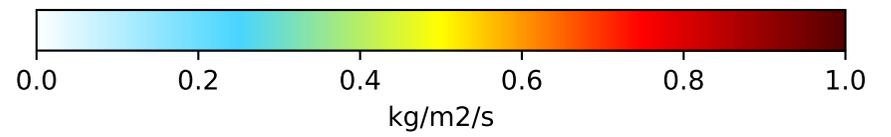
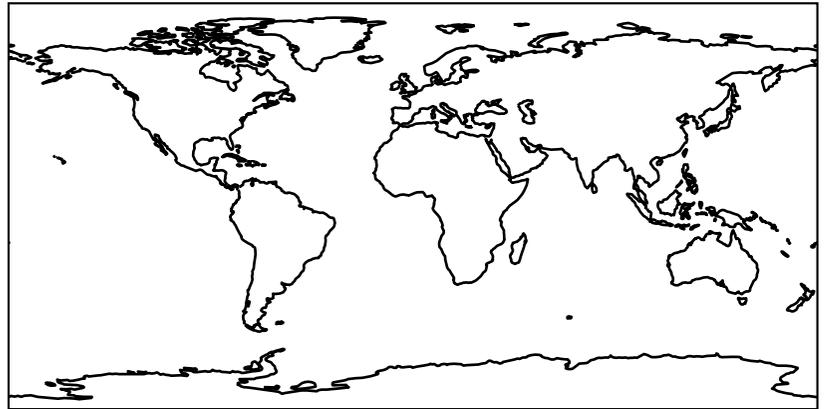


# EmisSO2\_Aircraft

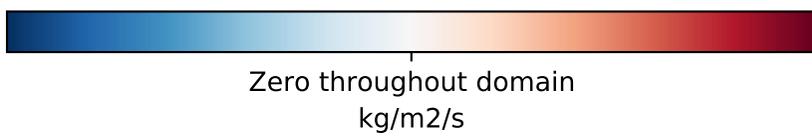
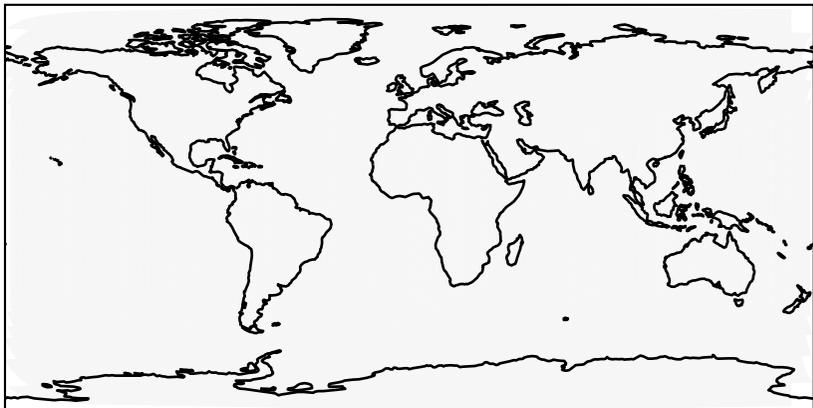
GCHP\_13.0.0-rc.2 (Ref)  
c48



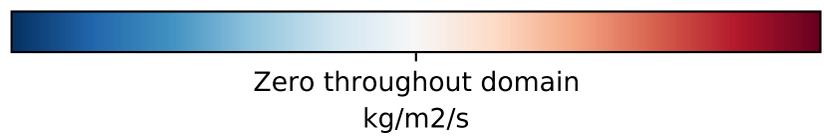
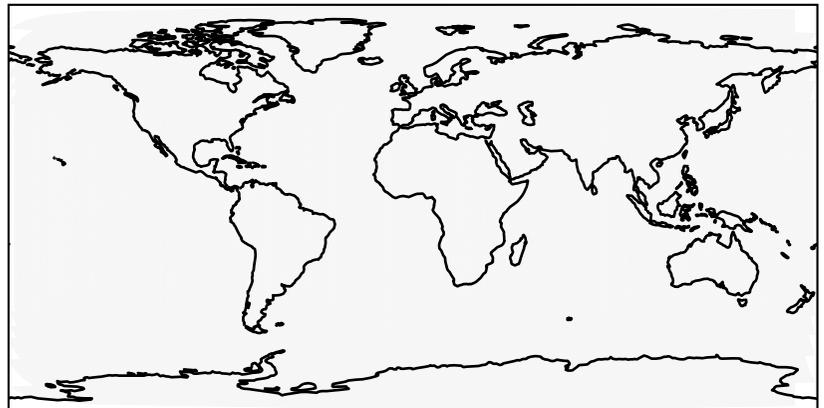
GCHP\_13.1.0-beta.1 (Dev)  
c48



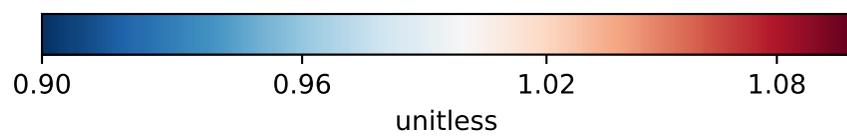
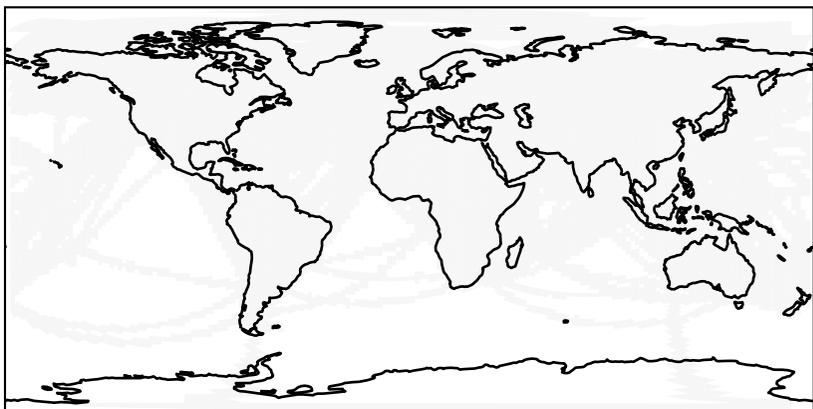
Difference  
Dev - Ref, Dynamic Range



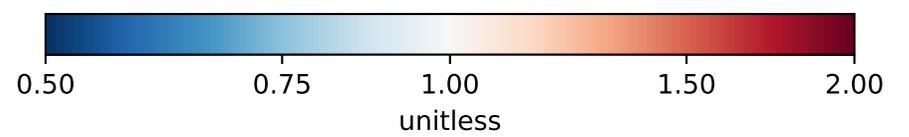
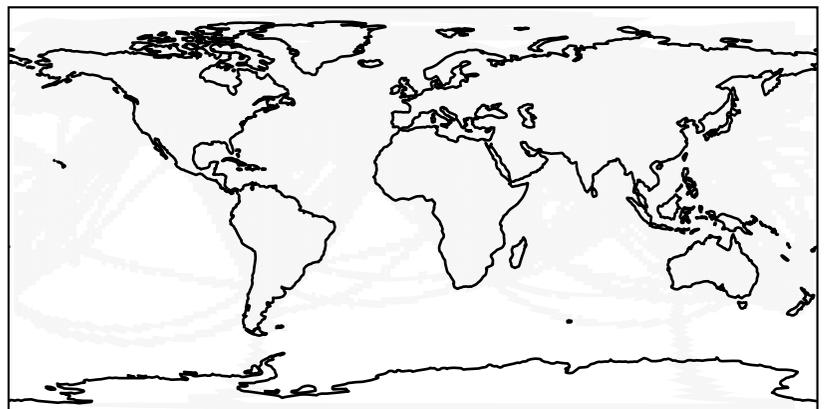
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

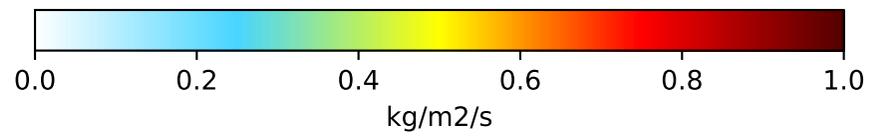
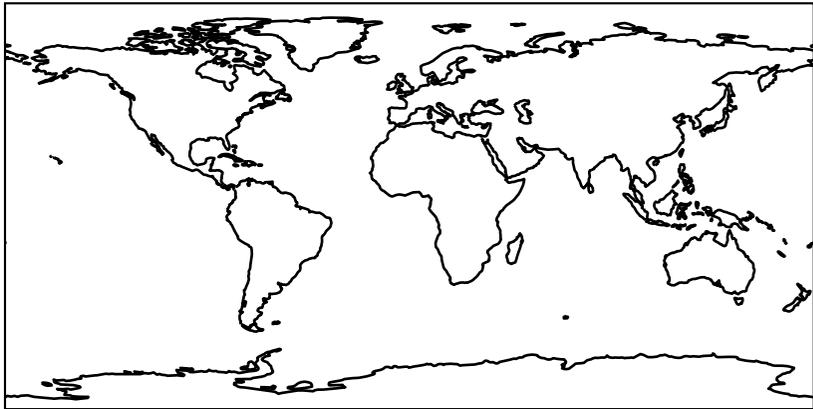


Ratio  
Dev/Ref, Fixed Range

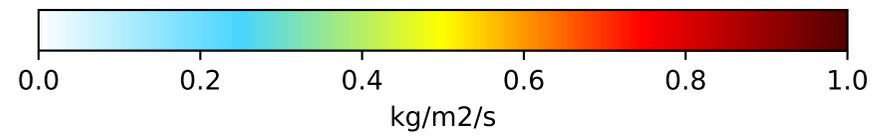
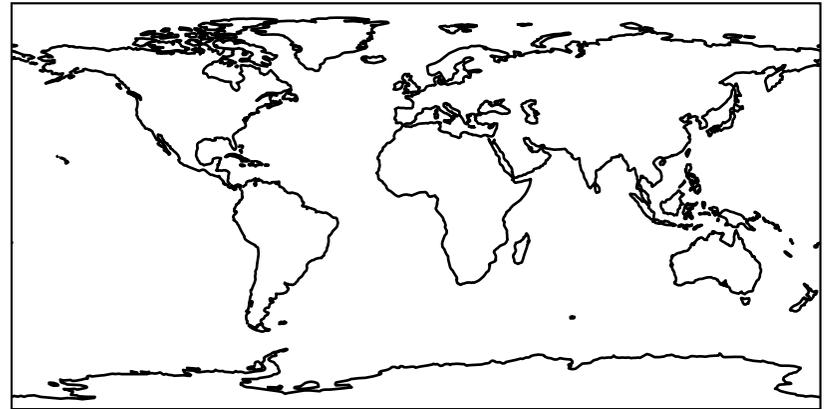


# EmisSO2\_Anthro

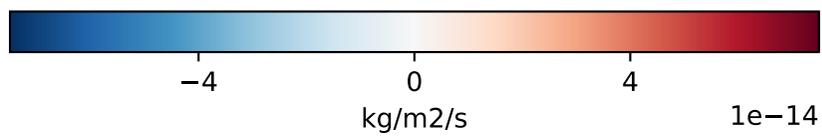
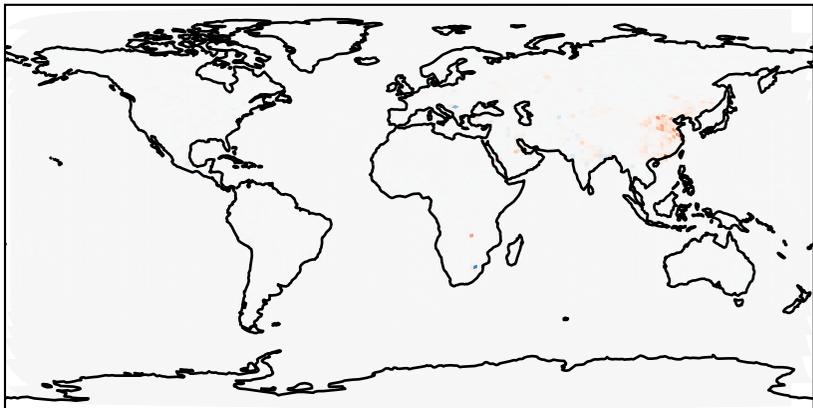
GCHP\_13.0.0-rc.2 (Ref)  
c48



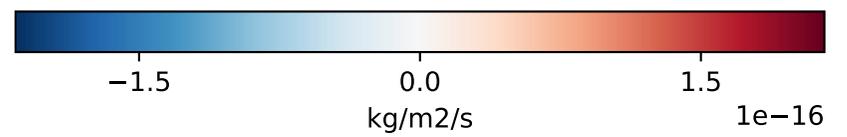
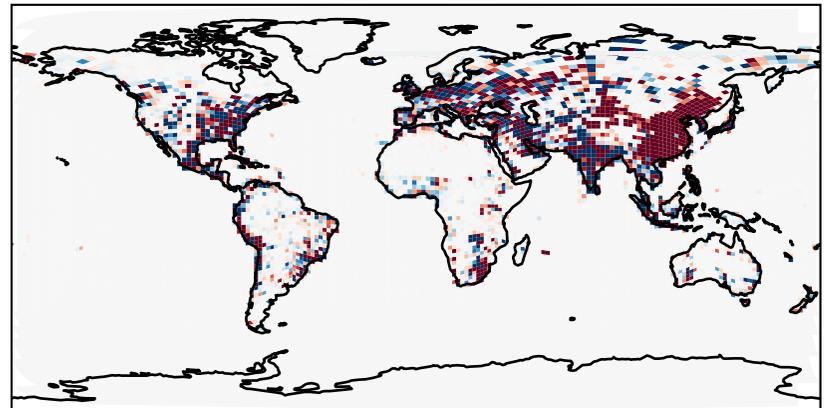
GCHP\_13.1.0-beta.1 (Dev)  
c48



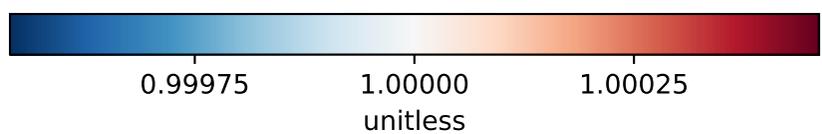
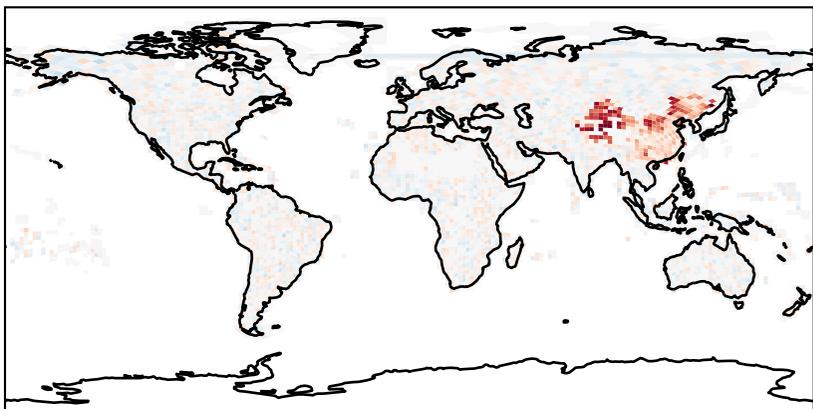
Difference  
Dev - Ref, Dynamic Range



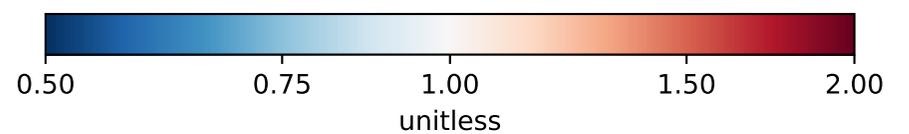
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

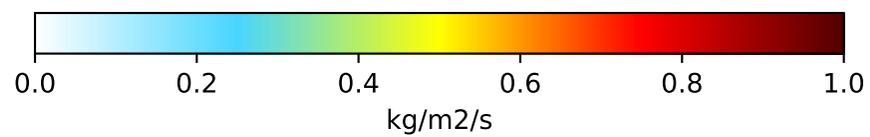
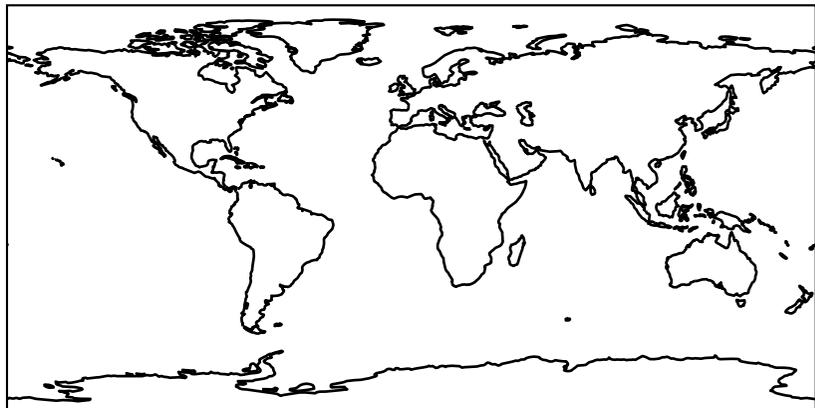


Ratio  
Dev/Ref, Fixed Range

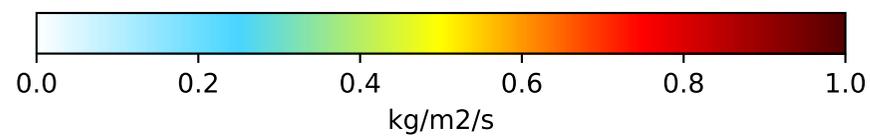
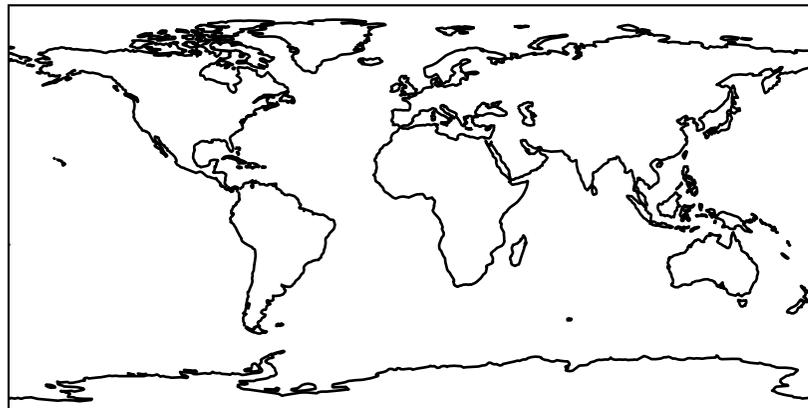


# EmisSO2\_BioBurn

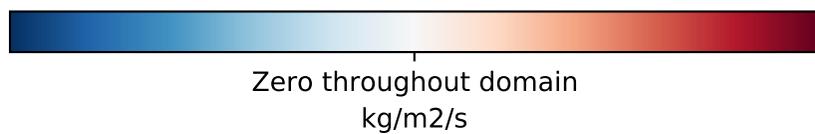
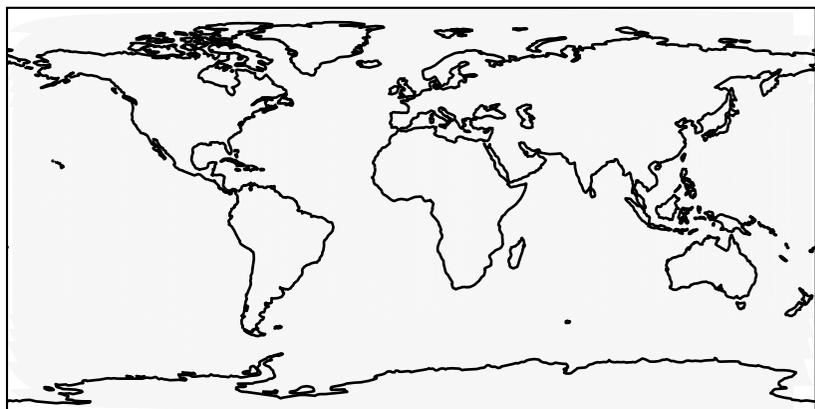
GCHP\_13.0.0-rc.2 (Ref)  
c48



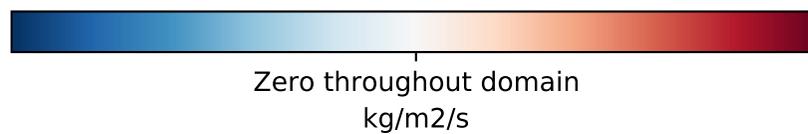
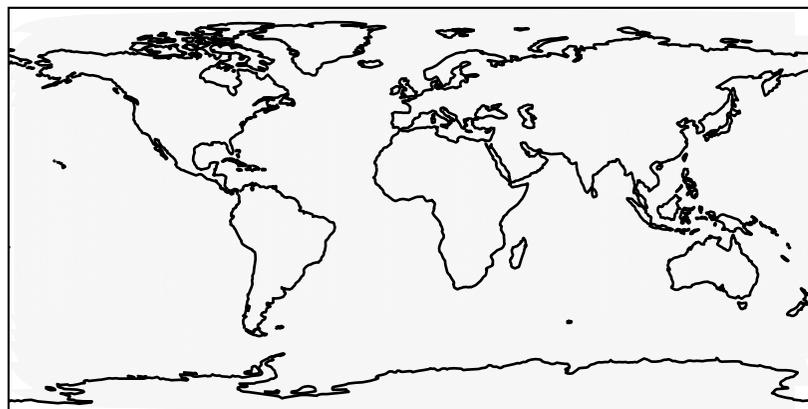
GCHP\_13.1.0-beta.1 (Dev)  
c48



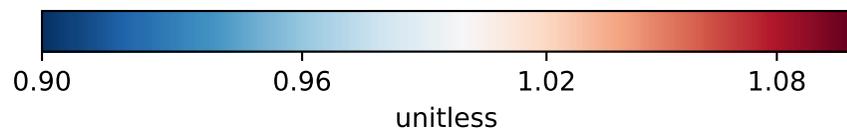
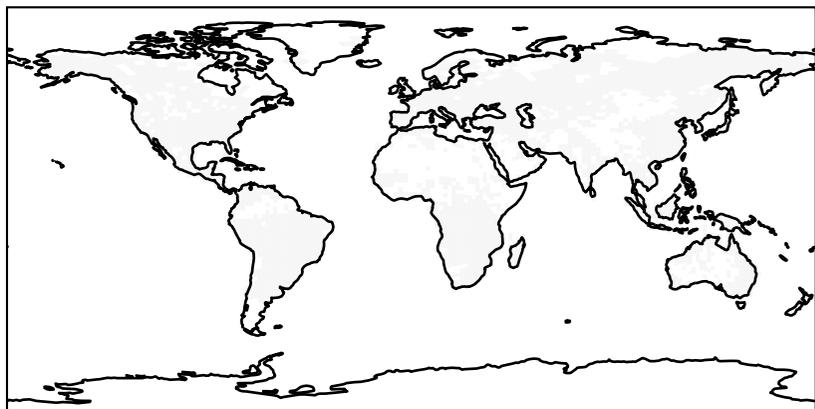
Difference  
Dev - Ref, Dynamic Range



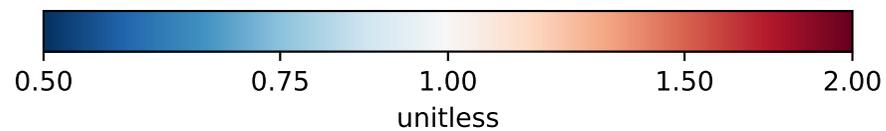
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

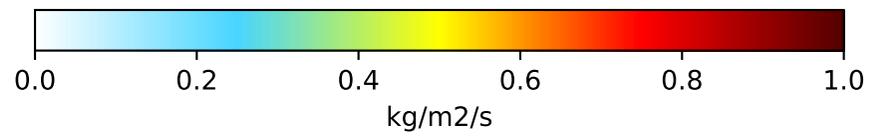
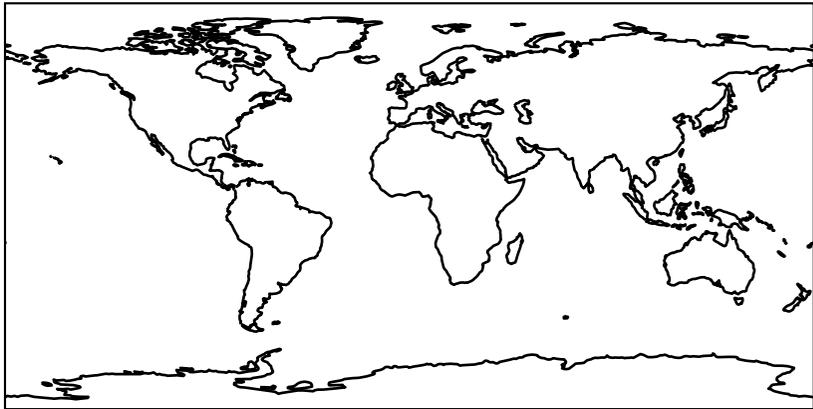


Ratio  
Dev/Ref, Fixed Range

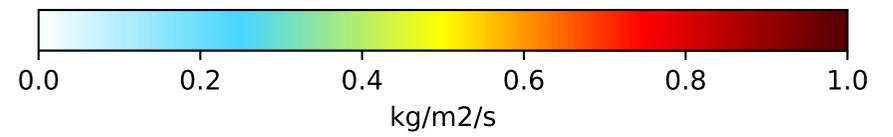
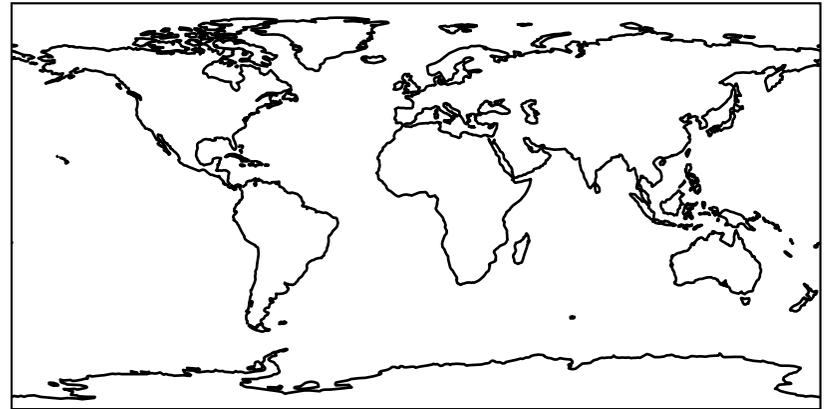


# EmisSO2\_Ship

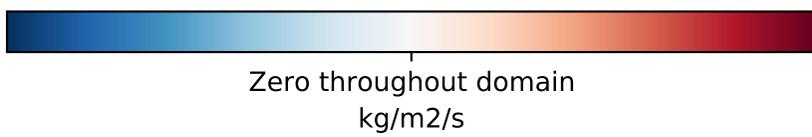
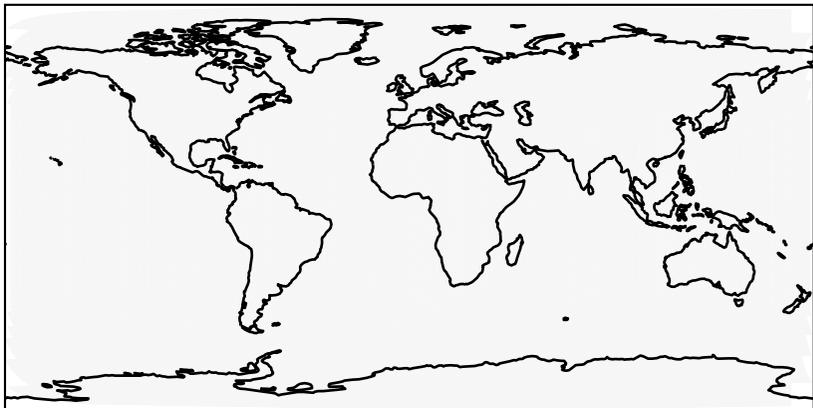
GCHP\_13.0.0-rc.2 (Ref)  
c48



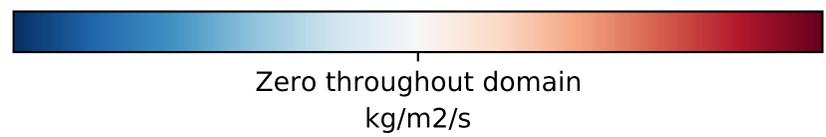
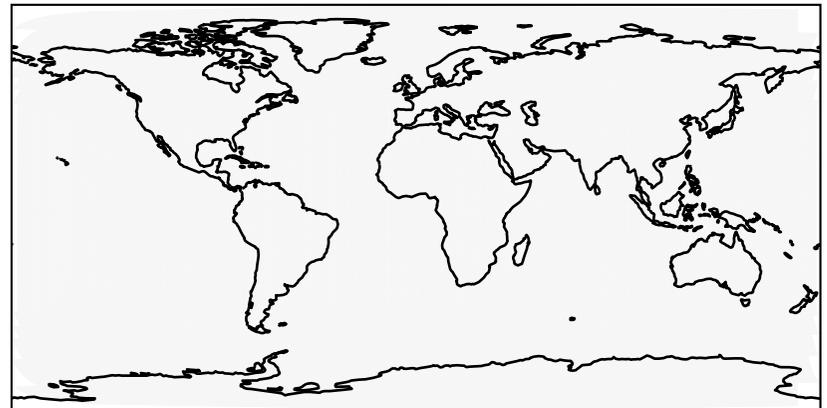
GCHP\_13.1.0-beta.1 (Dev)  
c48



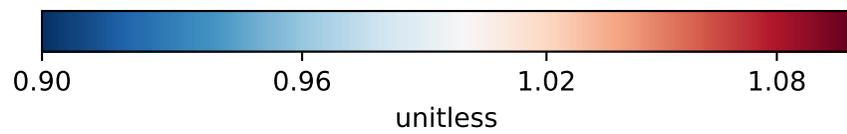
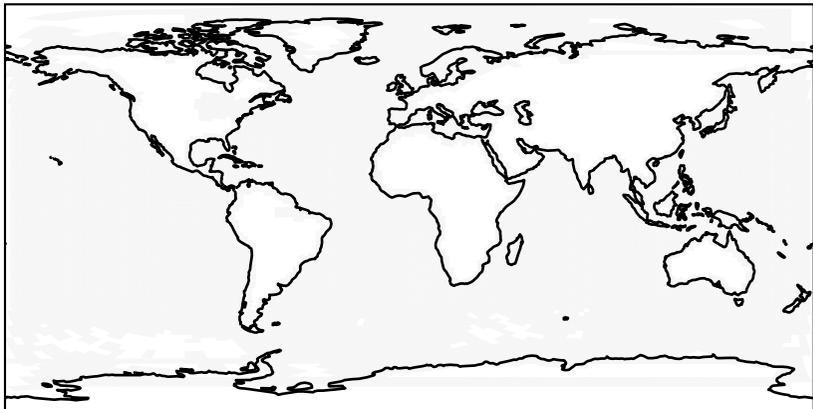
Difference  
Dev - Ref, Dynamic Range



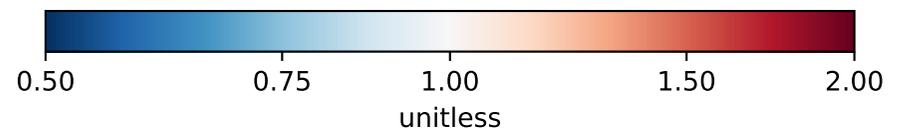
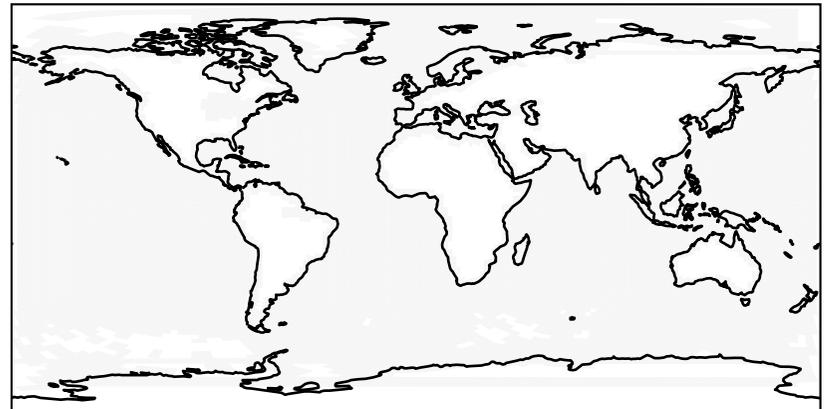
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

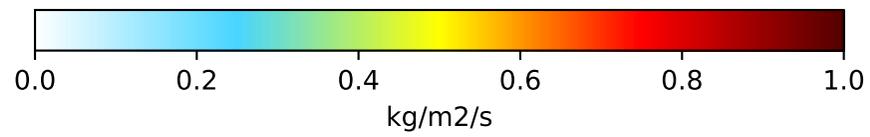
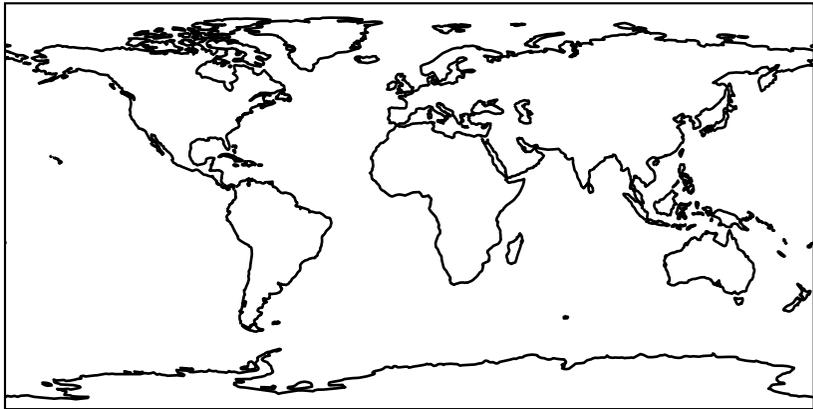


Ratio  
Dev/Ref, Fixed Range

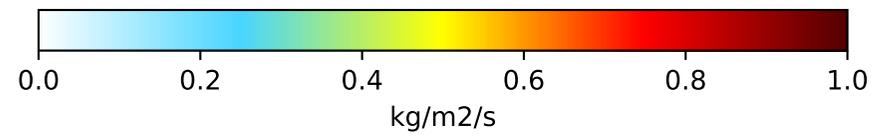
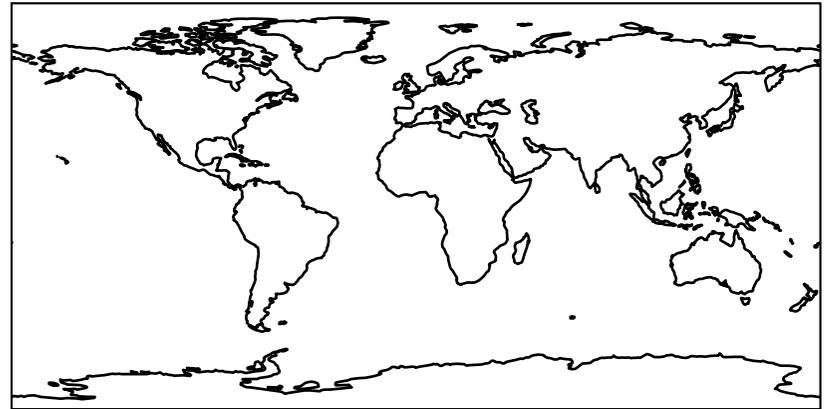


# EmisSO2\_Total

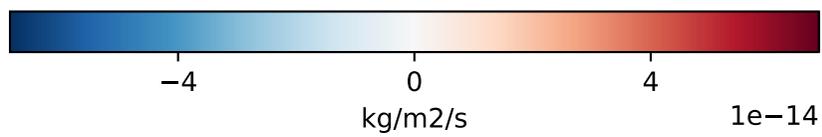
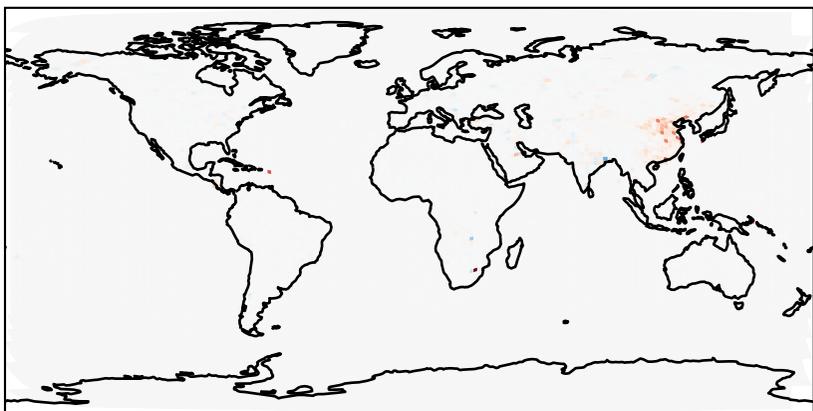
GCHP\_13.0.0-rc.2 (Ref)  
c48



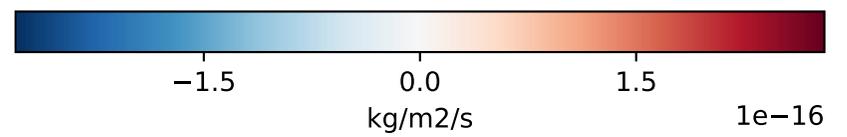
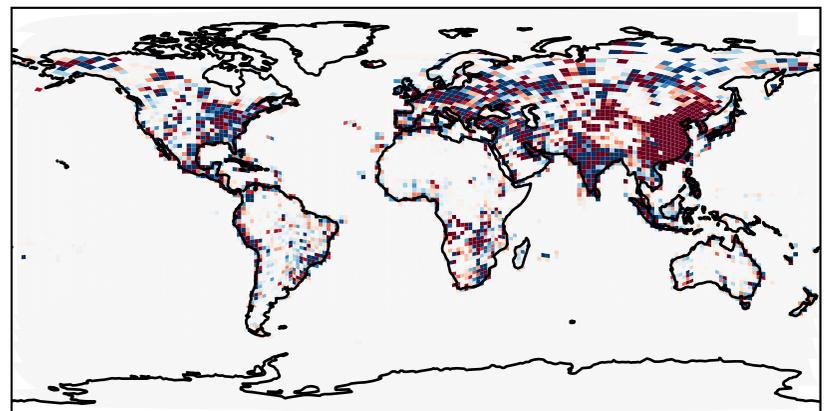
GCHP\_13.1.0-beta.1 (Dev)  
c48



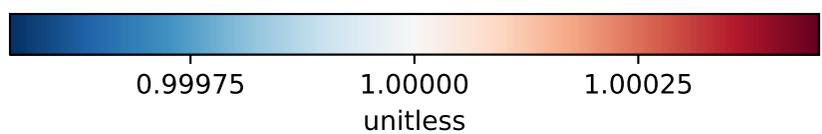
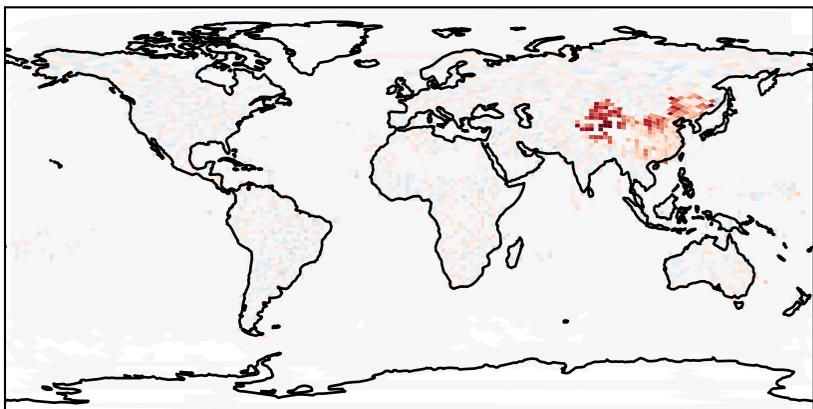
Difference  
Dev - Ref, Dynamic Range



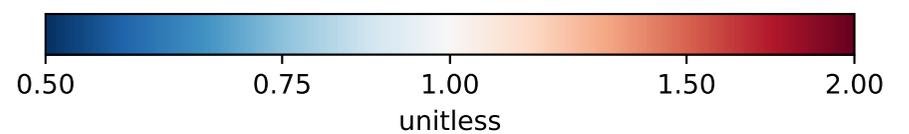
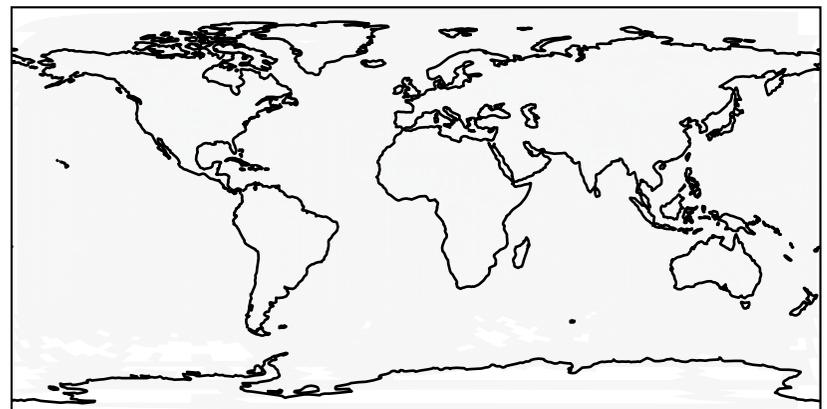
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

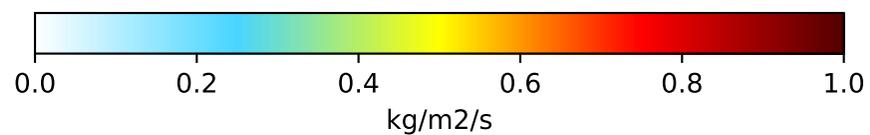
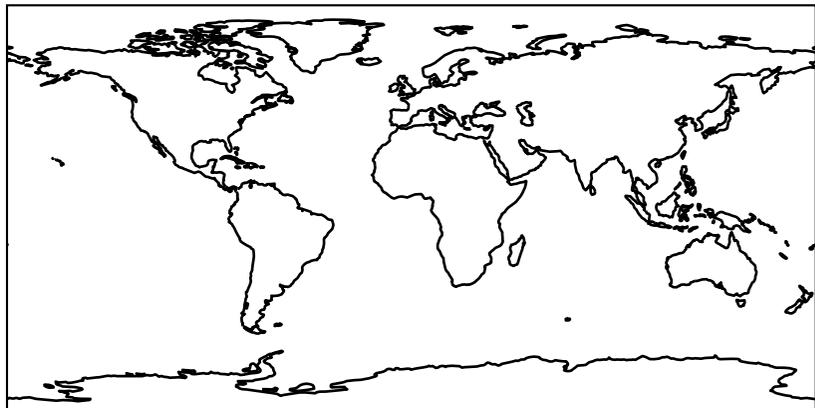


Ratio  
Dev/Ref, Fixed Range

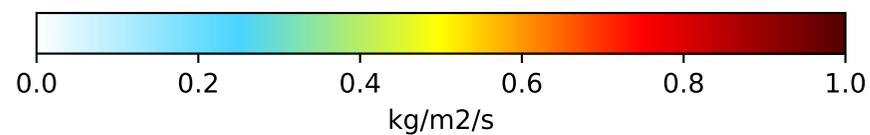


# EmisSO2\_VolcDegas

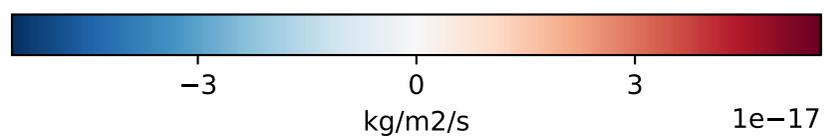
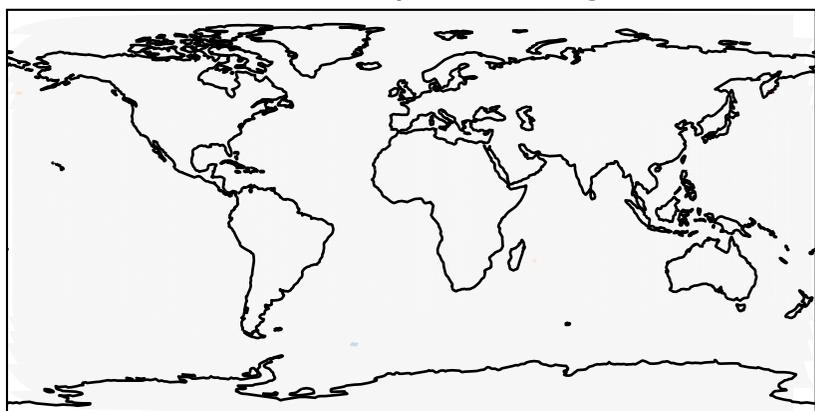
GCHP\_13.0.0-rc.2 (Ref)  
c48



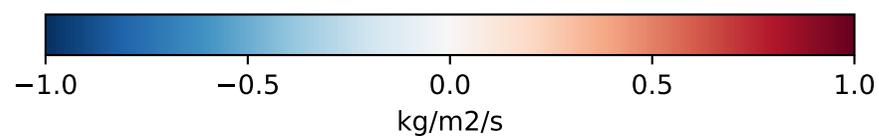
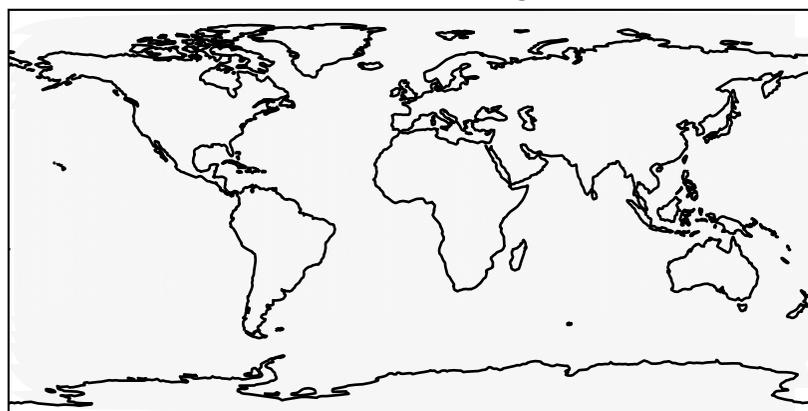
GCHP\_13.1.0-beta.1 (Dev)  
c48



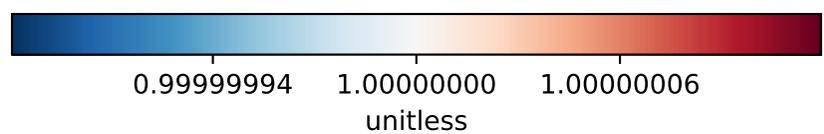
Difference  
Dev - Ref, Dynamic Range



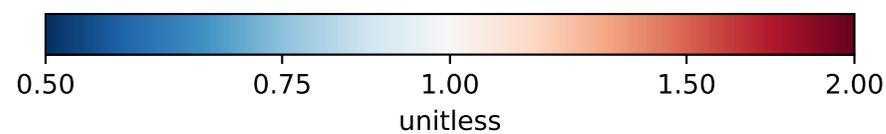
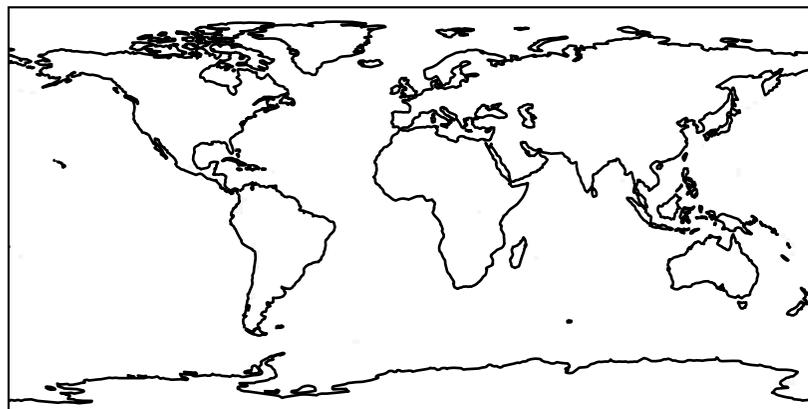
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

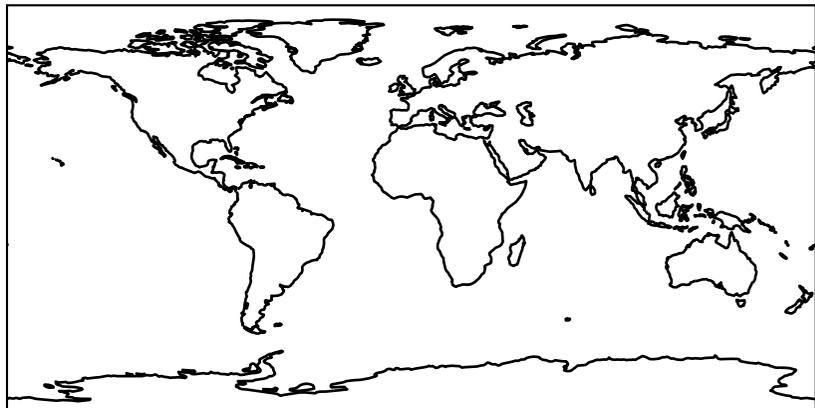


Ratio  
Dev/Ref, Fixed Range



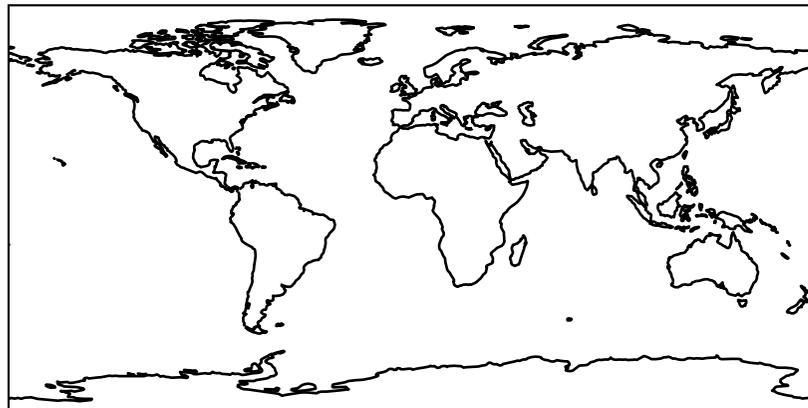
# EmisSO2\_VolcErupt

GCHP\_13.0.0-rc.2 (Ref)  
c48



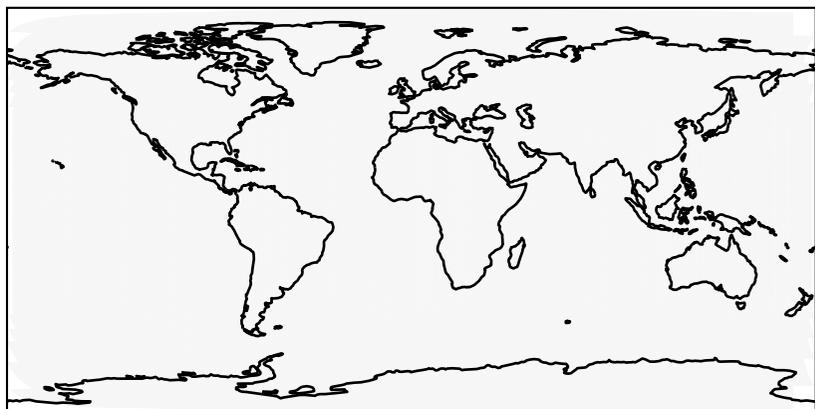
Zero throughout domain  
kg/m2/s

GCHP\_13.1.0-beta.1 (Dev)  
c48



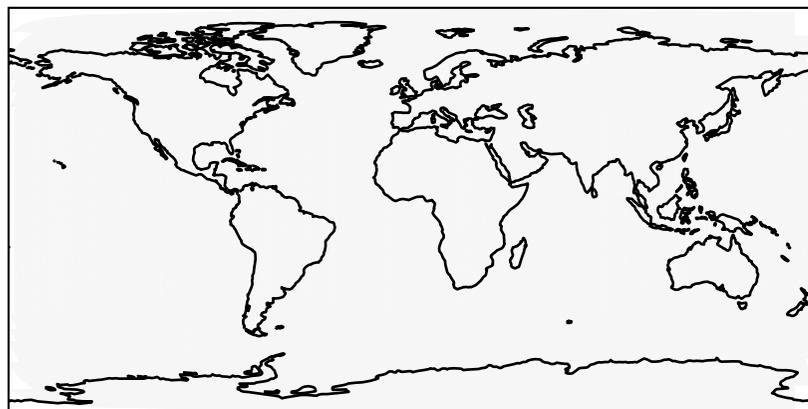
Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



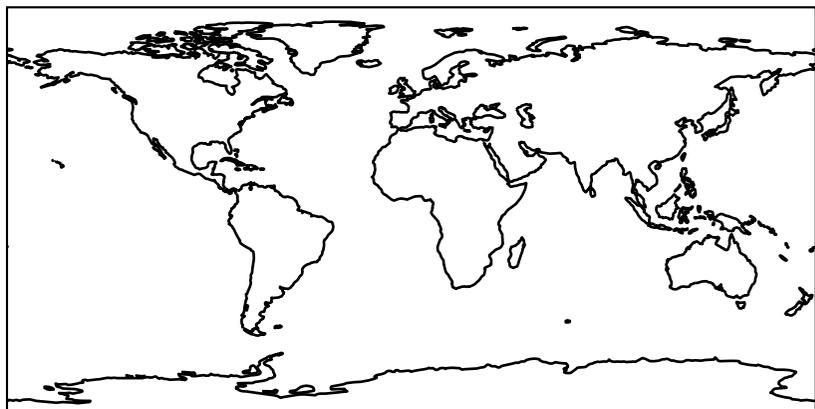
Zero throughout domain  
kg/m2/s

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



Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

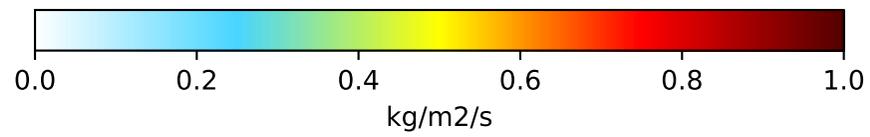
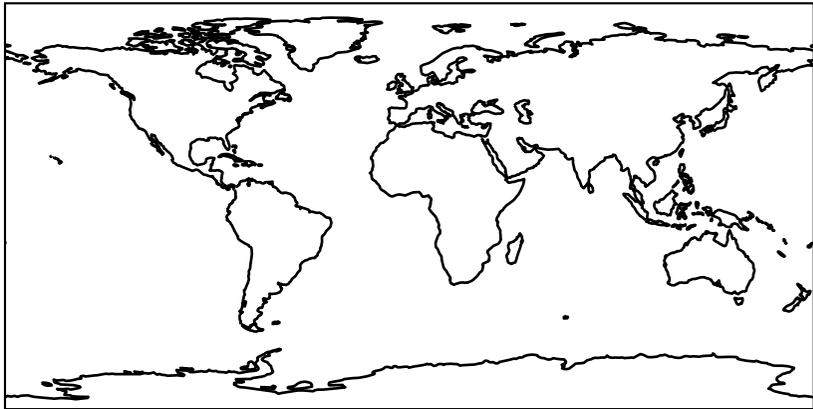
Ratio  
Dev/Ref, Fixed Range



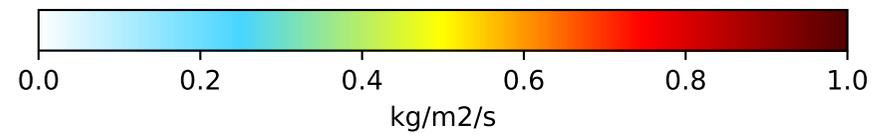
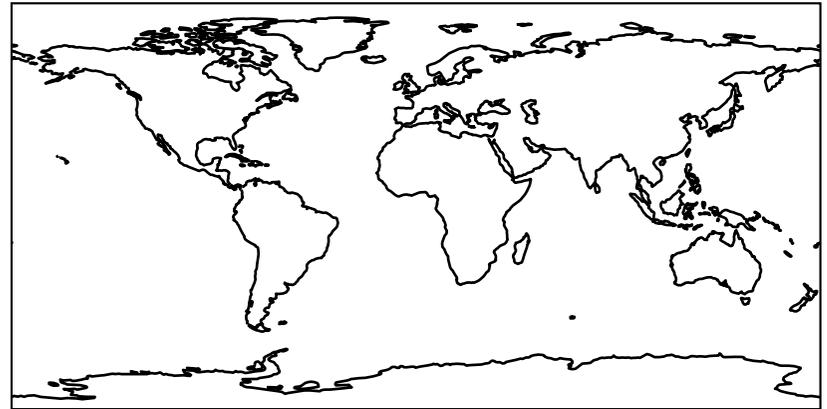
Undefined throughout domain  
unitless

# EmisSO4\_Aircraft

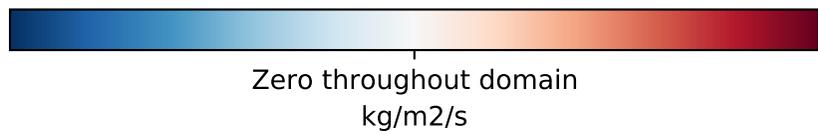
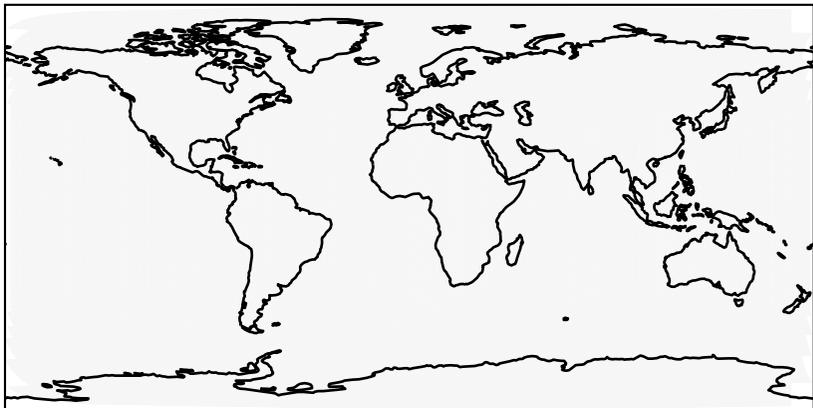
GCHP\_13.0.0-rc.2 (Ref)  
c48



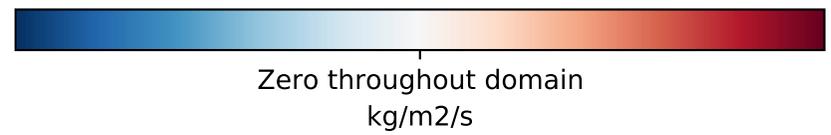
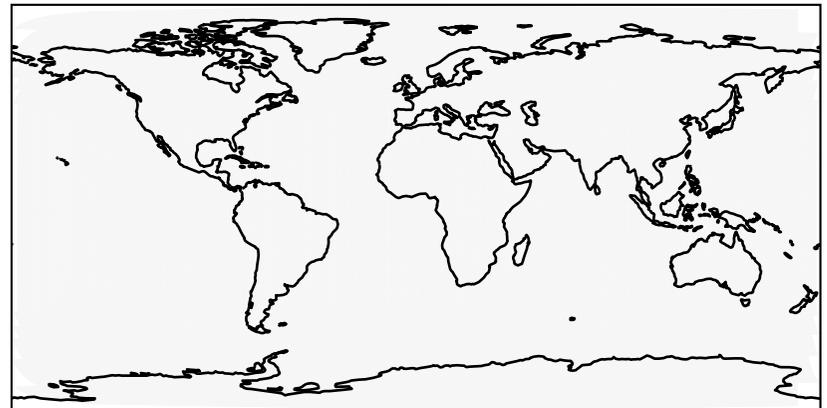
GCHP\_13.1.0-beta.1 (Dev)  
c48



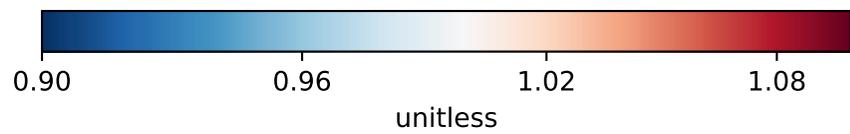
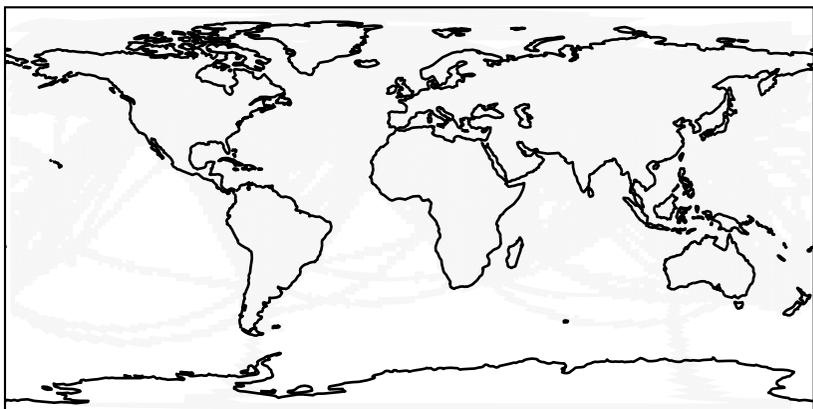
Difference  
Dev - Ref, Dynamic Range



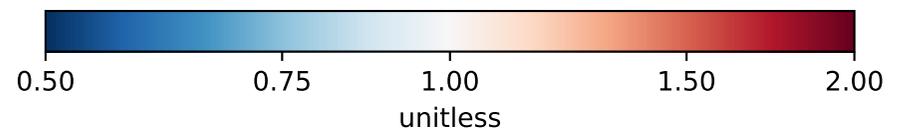
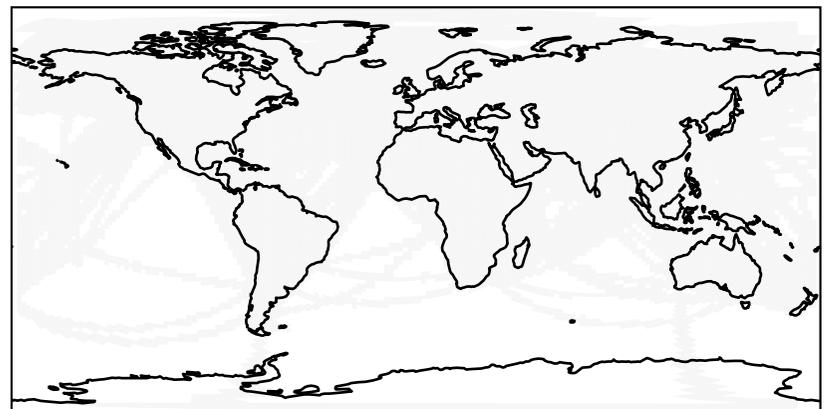
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

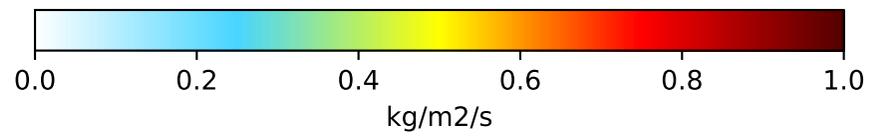
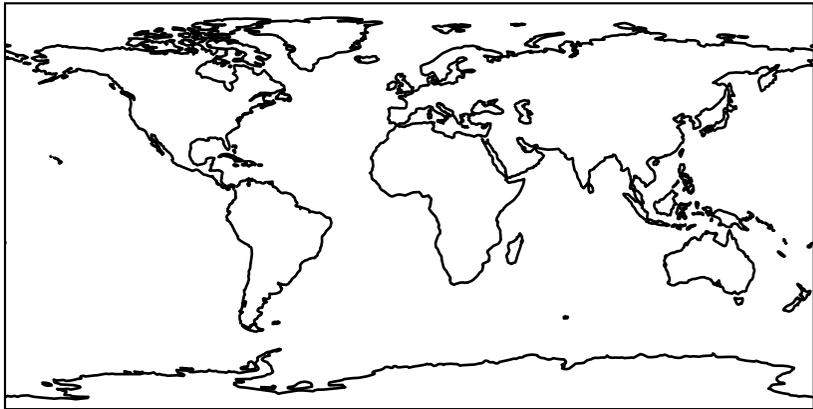


Ratio  
Dev/Ref, Fixed Range

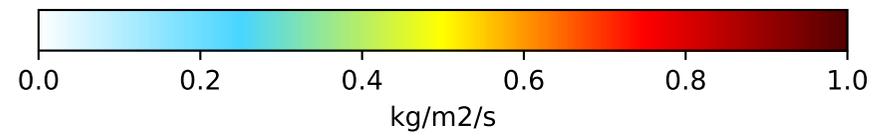
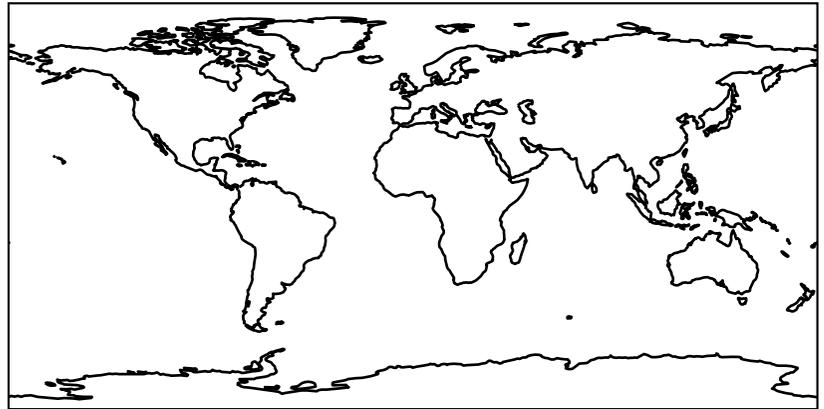


# EmisSO4\_Anthro

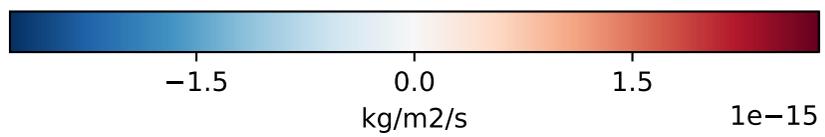
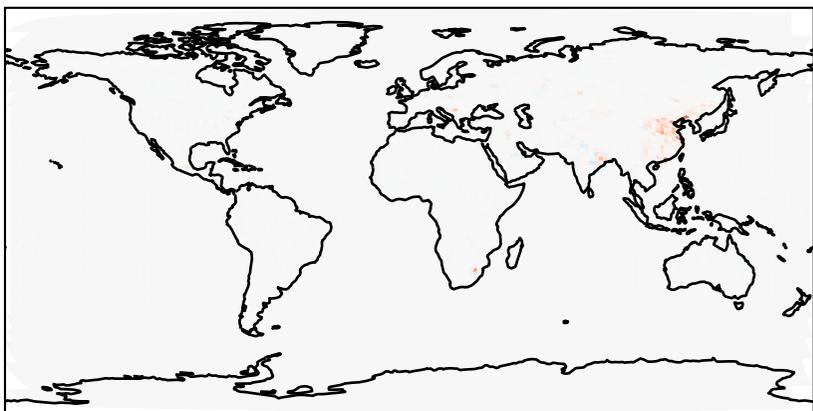
GCHP\_13.0.0-rc.2 (Ref)  
c48



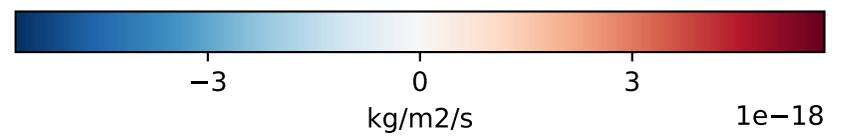
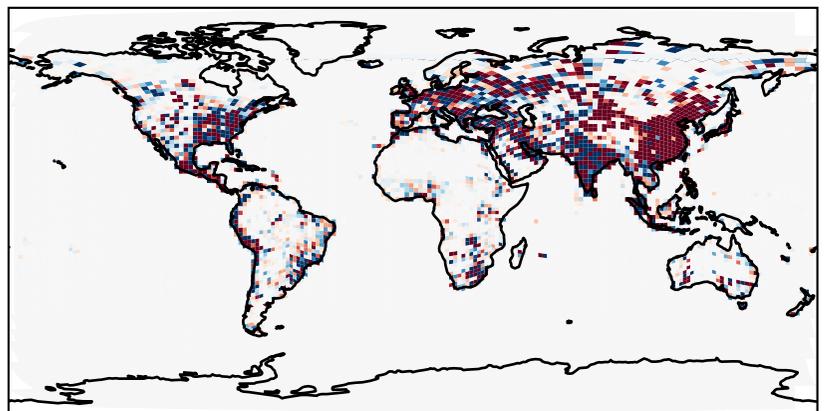
GCHP\_13.1.0-beta.1 (Dev)  
c48



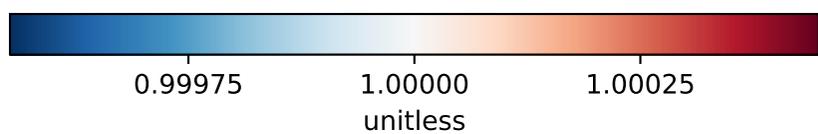
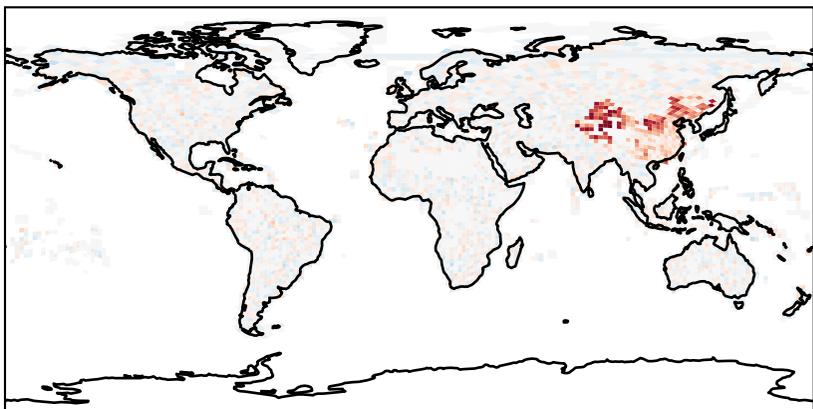
Difference  
Dev - Ref, Dynamic Range



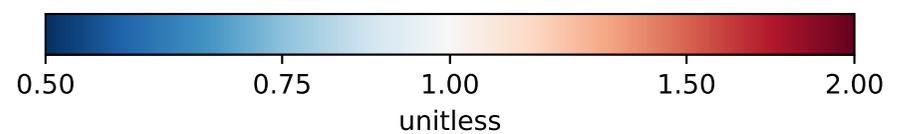
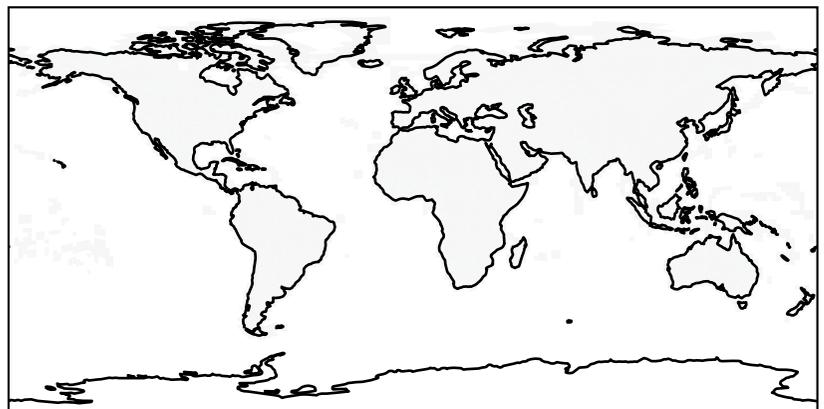
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

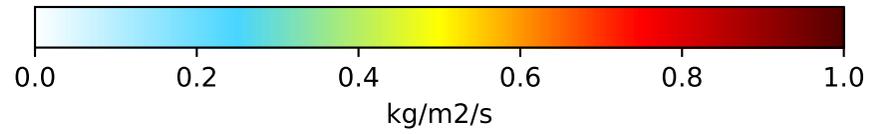
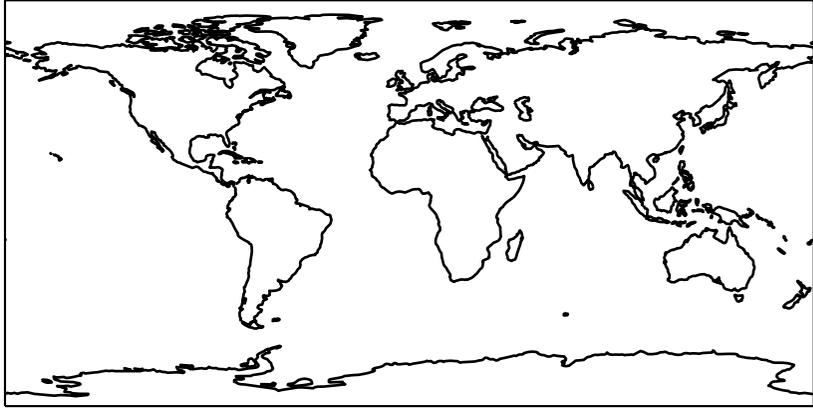


Ratio  
Dev/Ref, Fixed Range

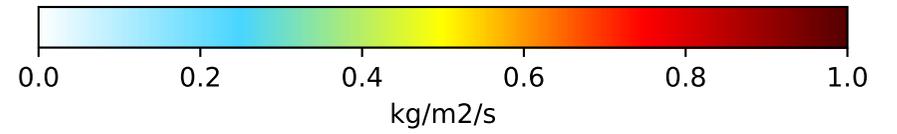
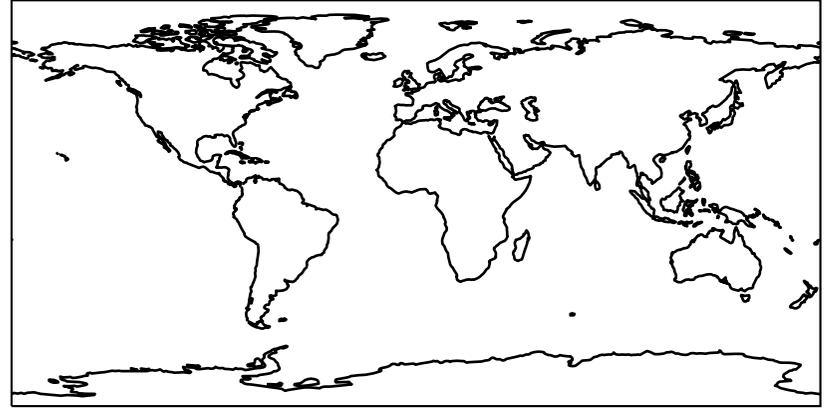


# EmisSO4\_Ship

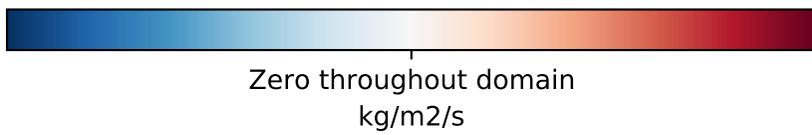
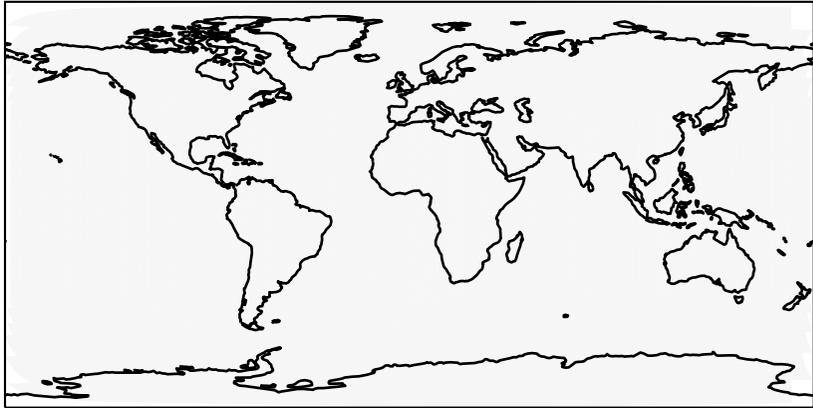
GCHP\_13.0.0-rc.2 (Ref)  
c48



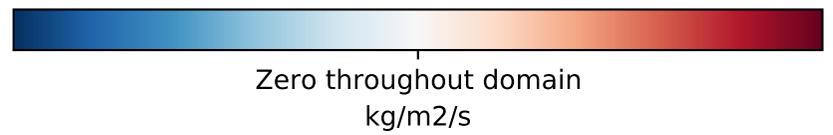
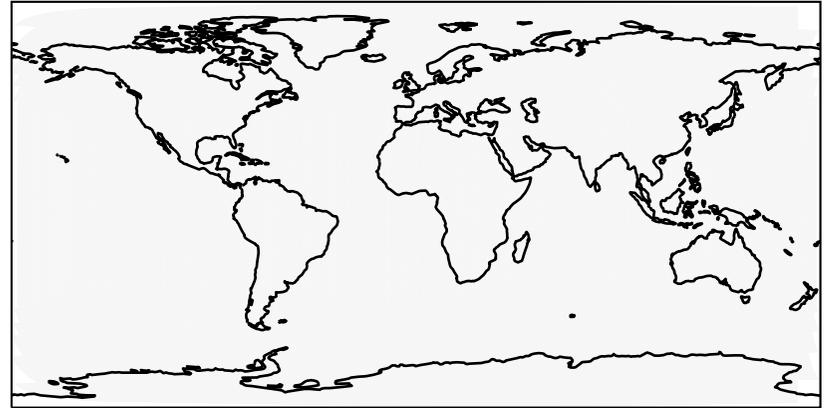
GCHP\_13.1.0-beta.1 (Dev)  
c48



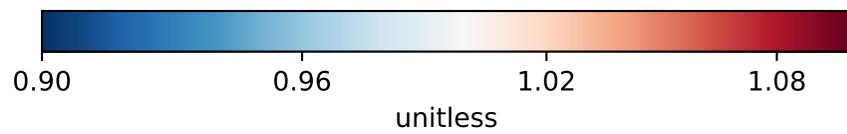
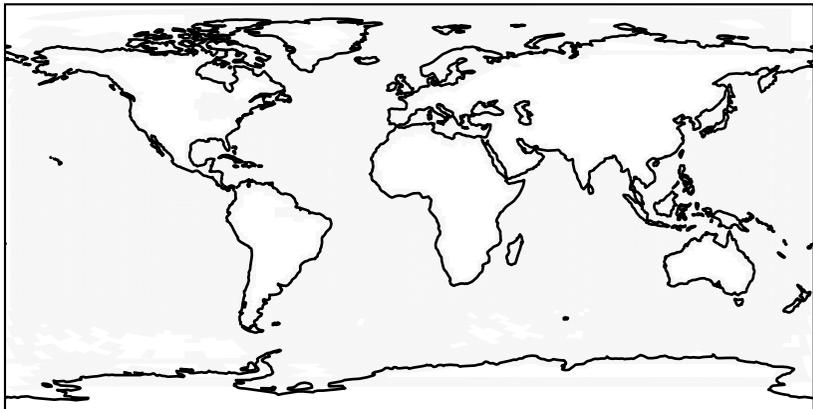
Difference  
Dev - Ref, Dynamic Range



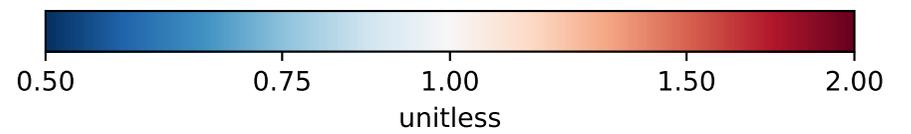
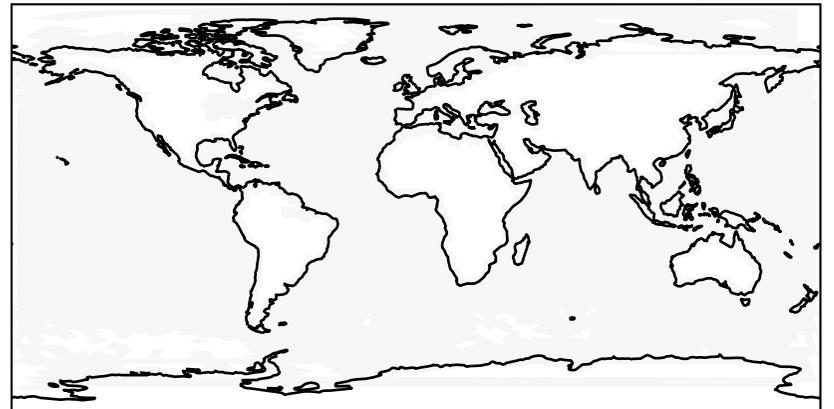
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

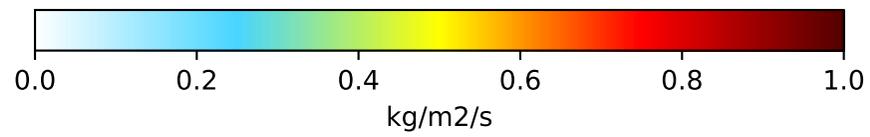
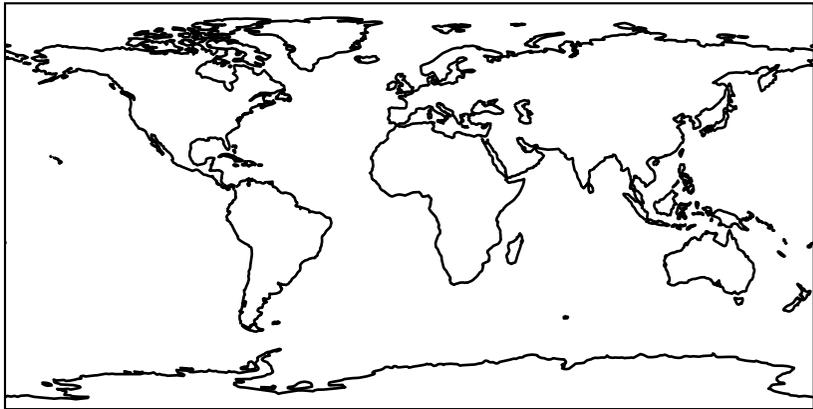


Ratio  
Dev/Ref, Fixed Range

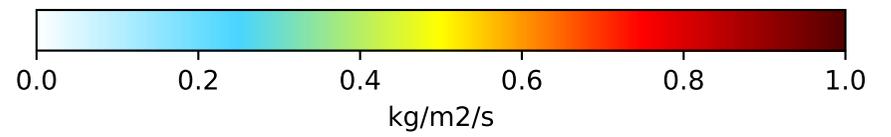
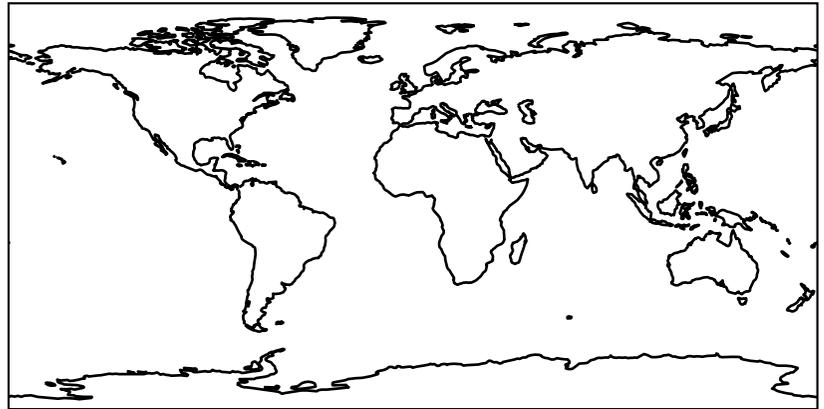


# EmisSO4\_Total

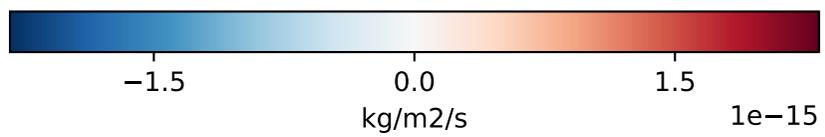
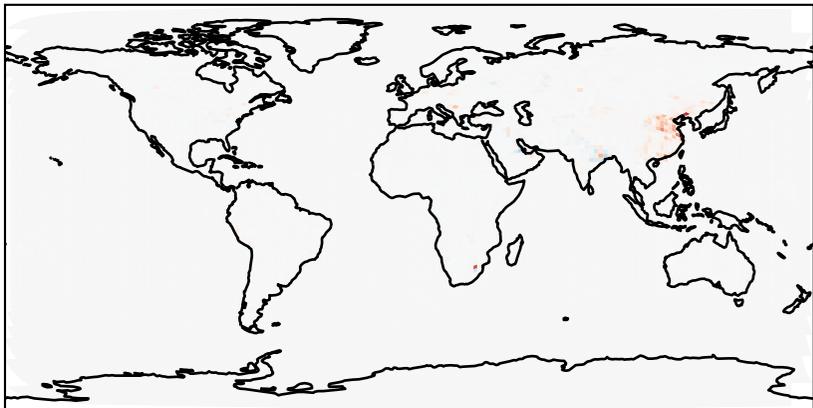
GCHP\_13.0.0-rc.2 (Ref)  
c48



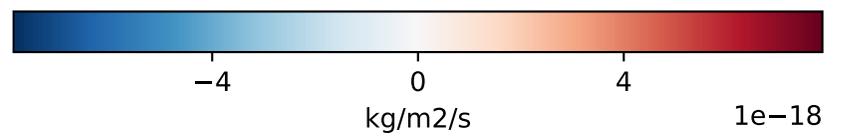
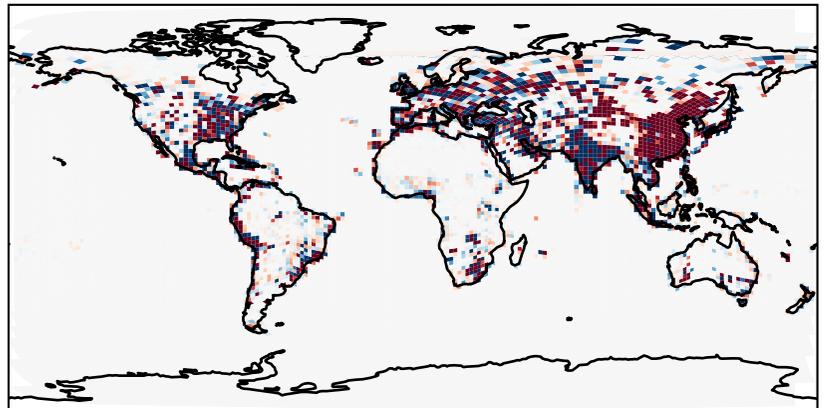
GCHP\_13.1.0-beta.1 (Dev)  
c48



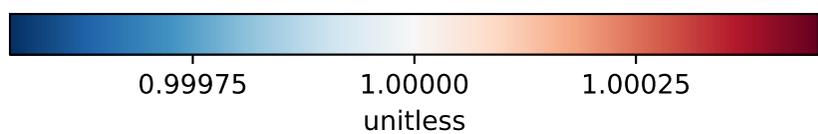
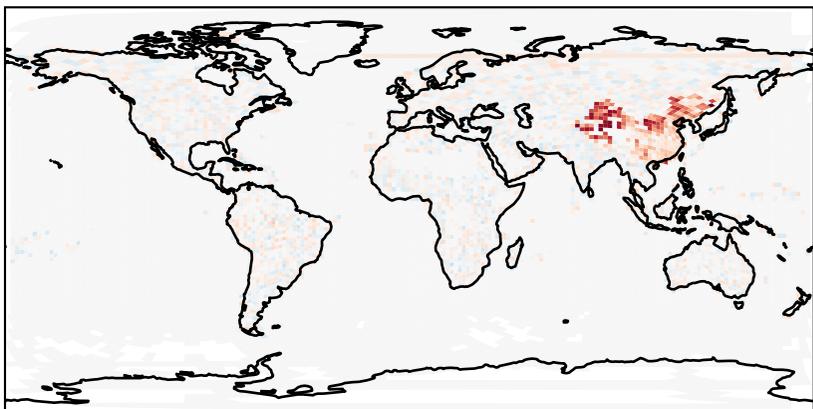
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

