

# EmisHNO2\_Anthro (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



Zero throughout domain  
kg/m2/s

GCC\_13.3.0 (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%]



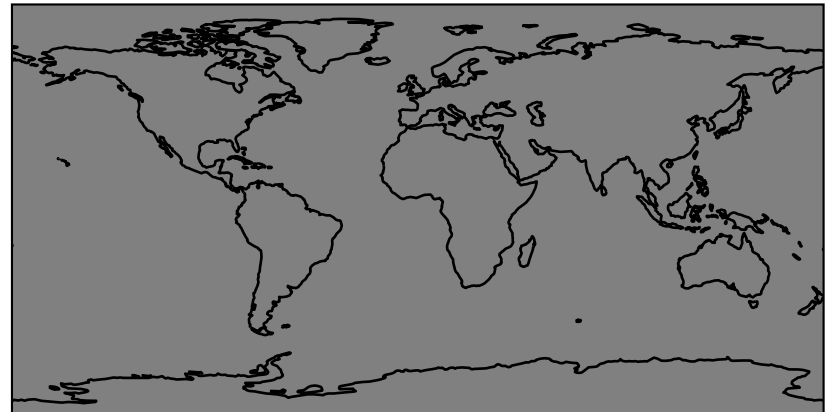
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

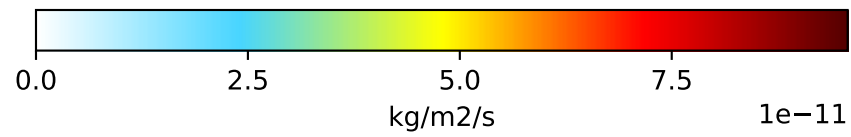
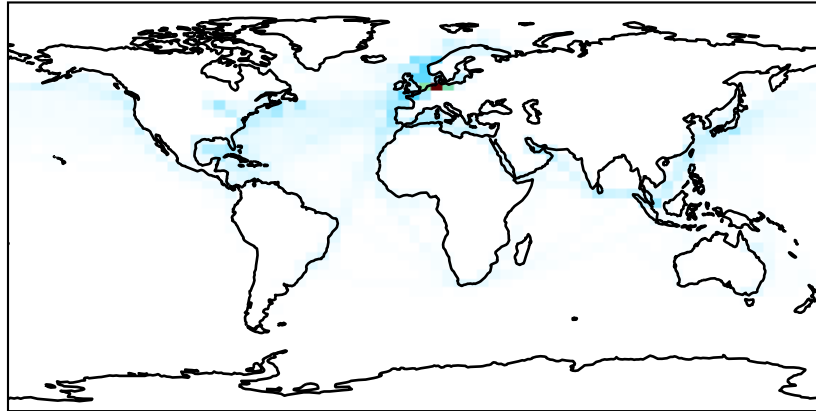
Ratio  
Dev/Ref, Fixed Range



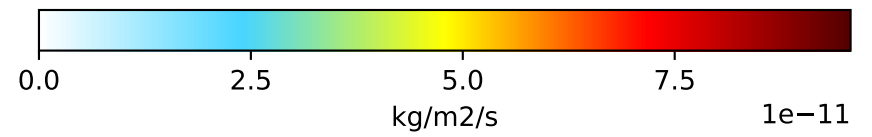
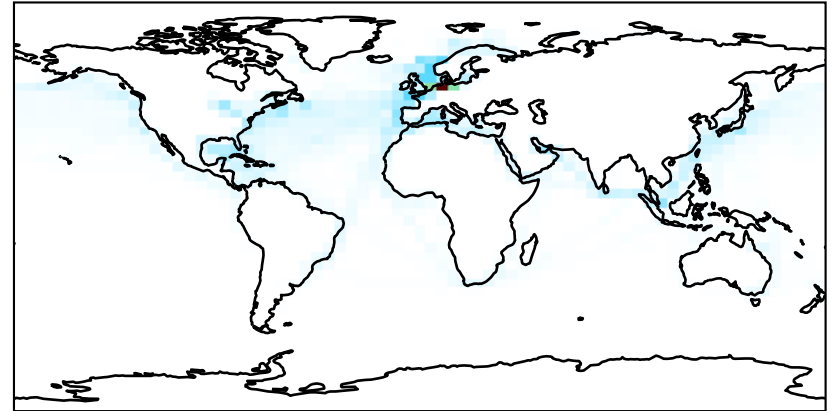
Undefined throughout domain  
unitless

# EmisHNO3\_Ship (Jul2019)

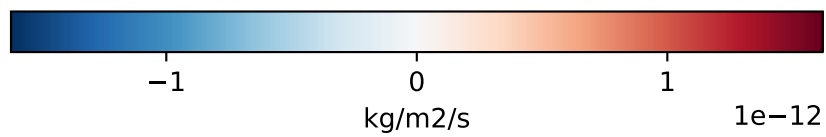
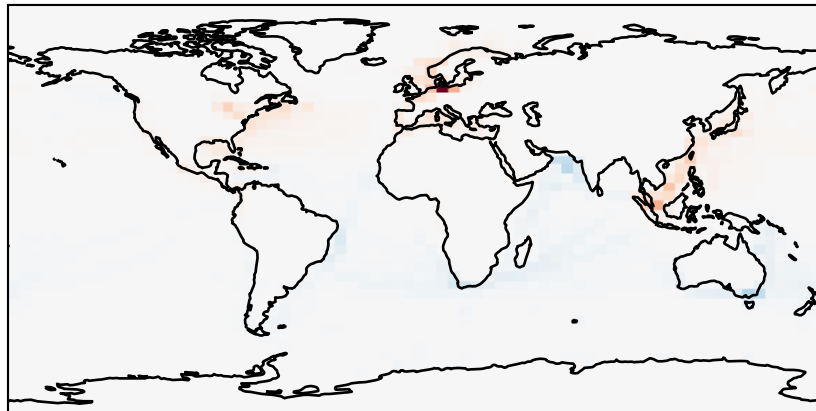
GCC\_13.2.0 (Ref)  
4.0x5.0



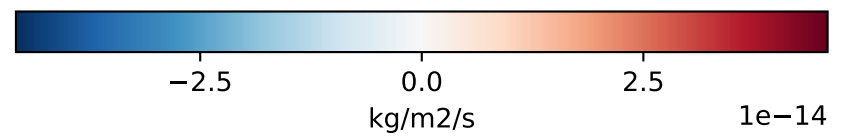
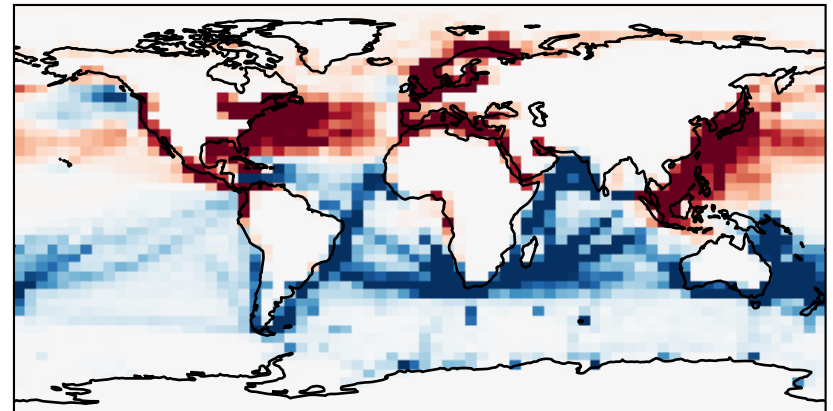
GCC\_13.3.0 (Dev)  
4.0x5.0



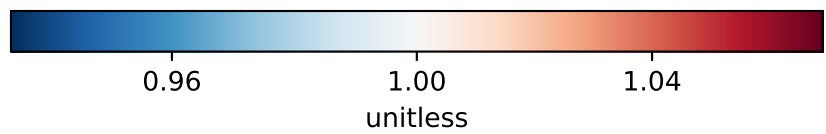
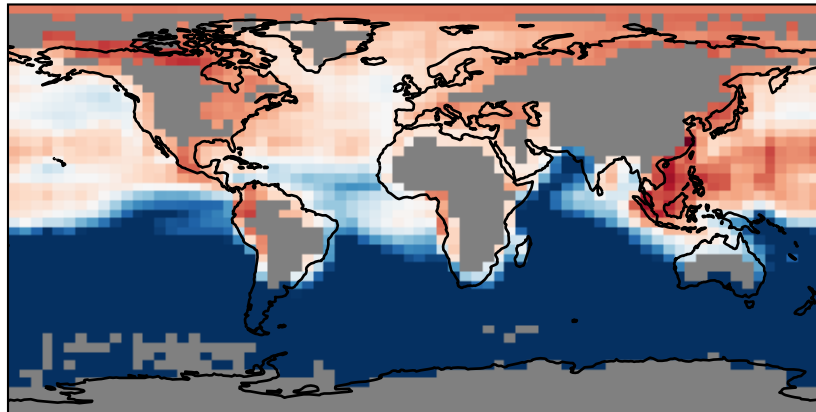
Difference  
Dev - Ref, Dynamic Range



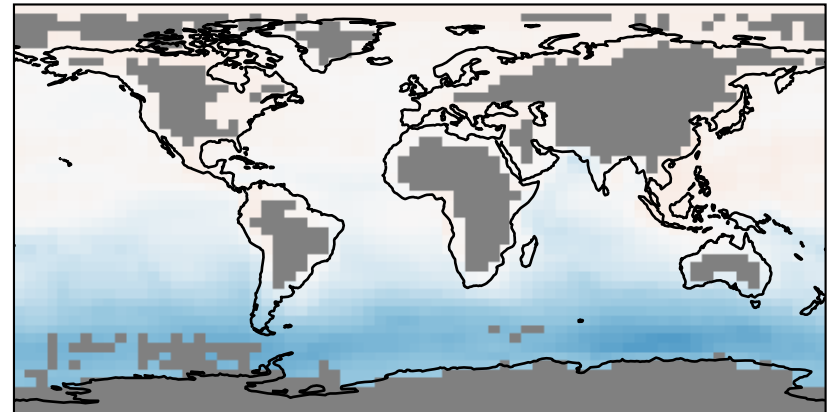
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

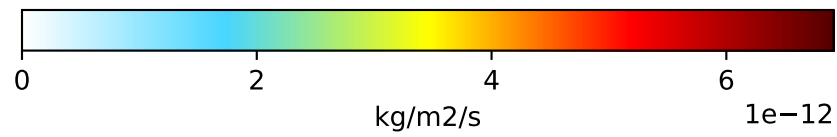
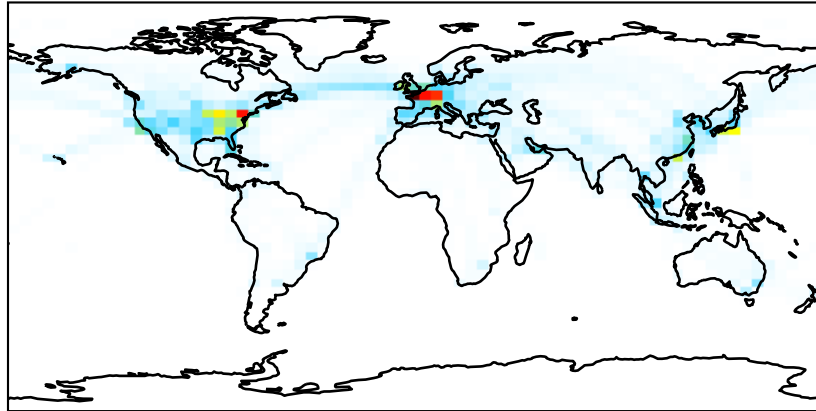


Ratio  
Dev/Ref, Fixed Range

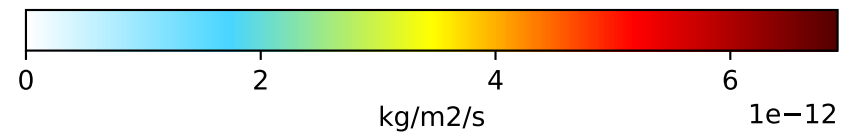
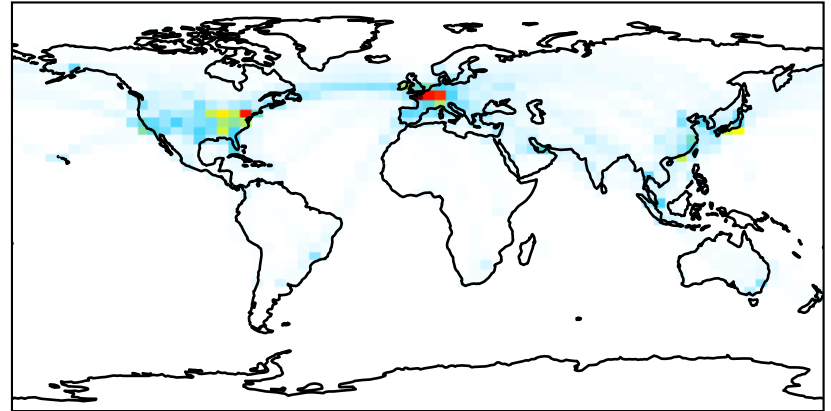


# EmisNO\_Aircraft (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



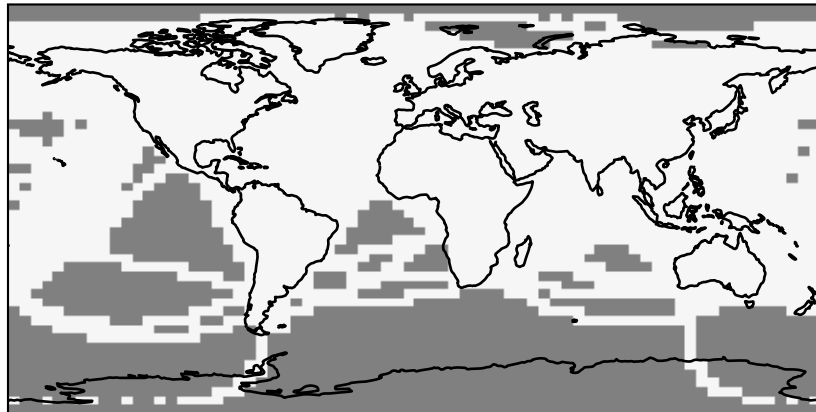
Difference  
Dev - Ref, Dynamic Range



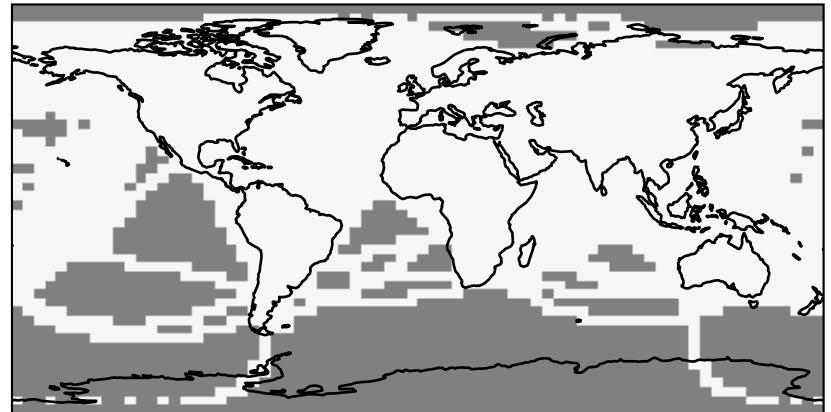
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

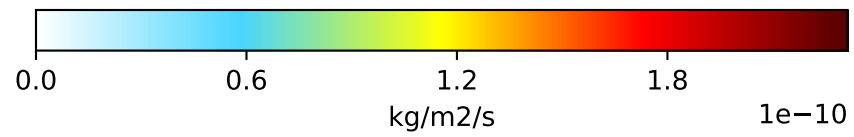
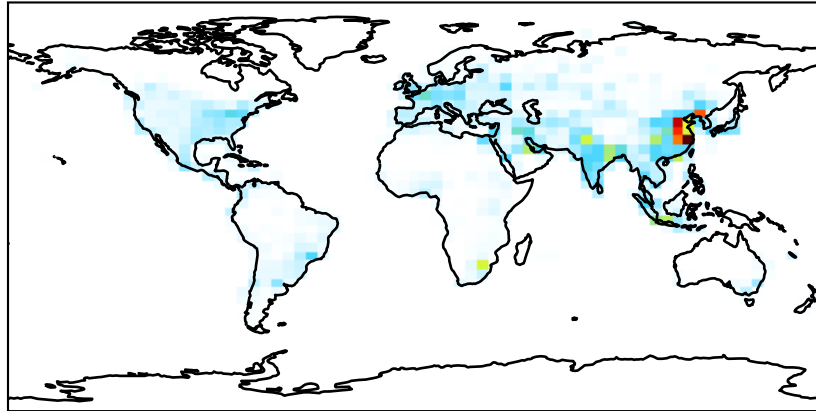


Ratio  
Dev/Ref, Fixed Range

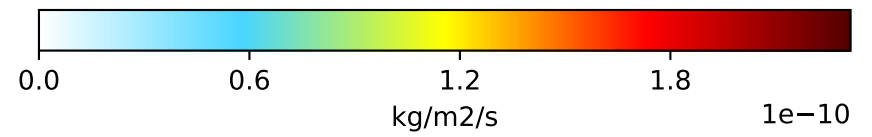
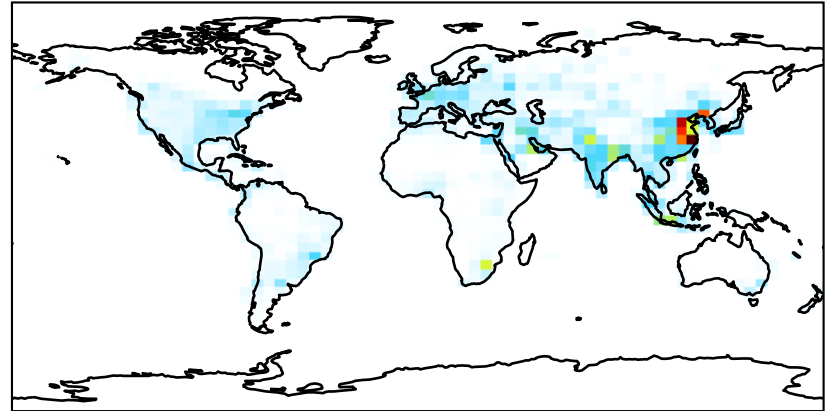


# EmisNO\_Anthro (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



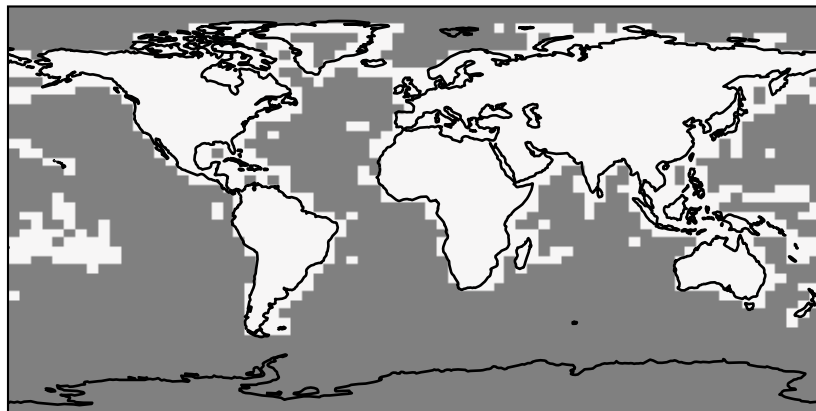
Difference  
Dev - Ref, Dynamic Range



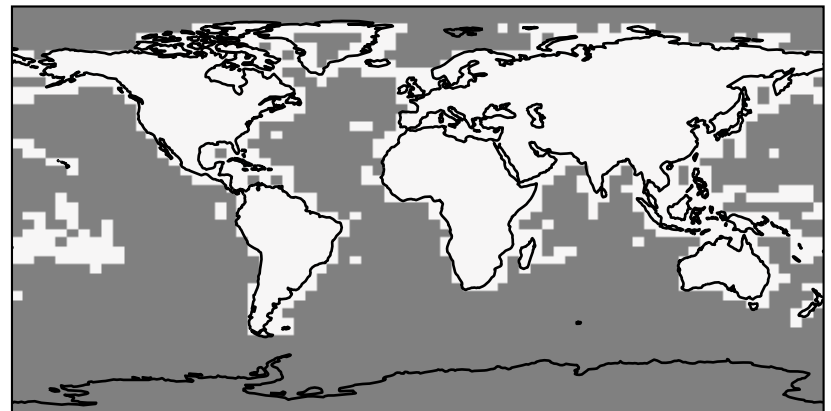
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

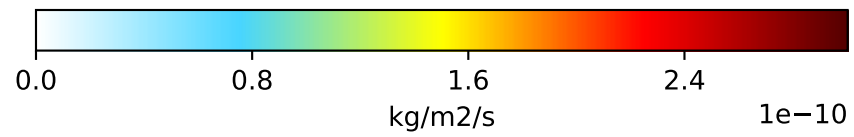
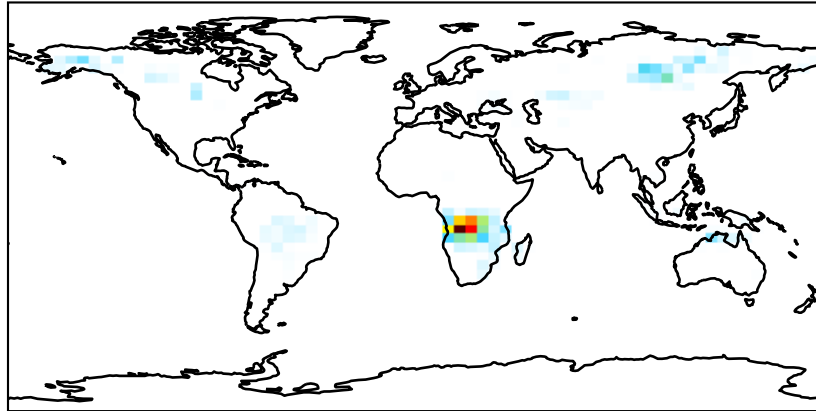


Ratio  
Dev/Ref, Fixed Range

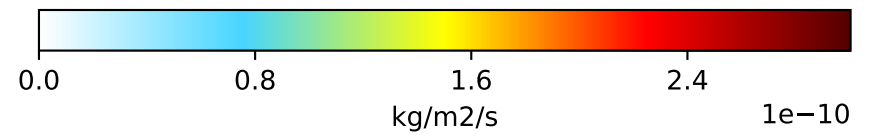
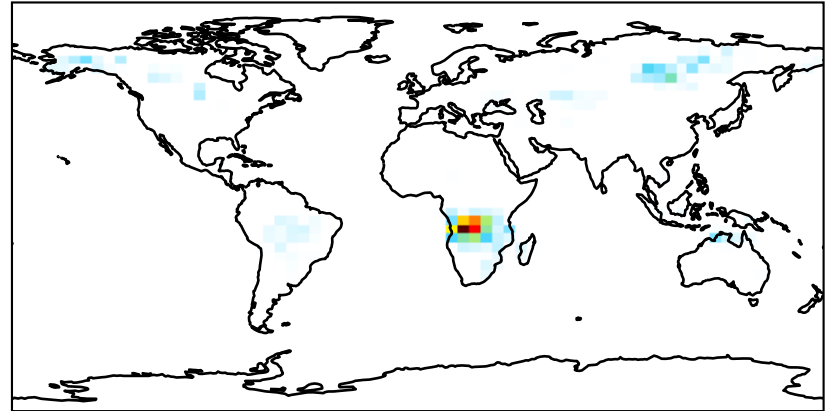


# EmisNO\_BioBurn (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



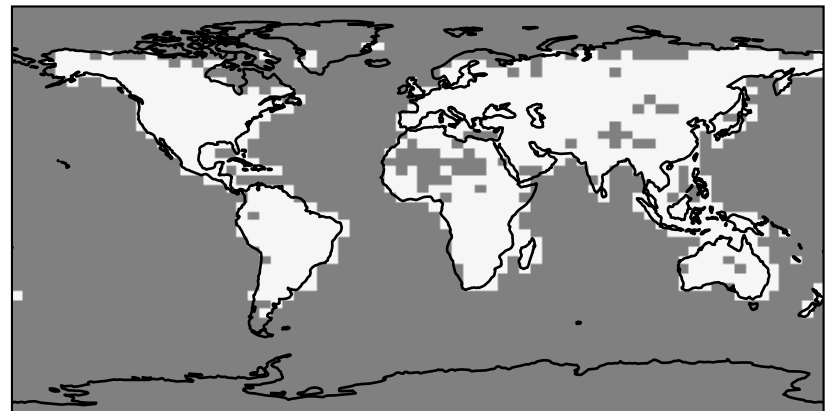
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

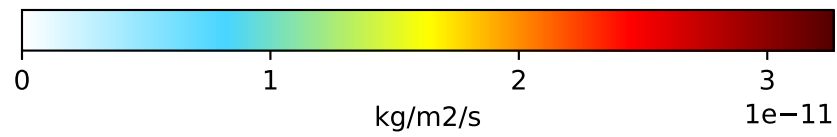
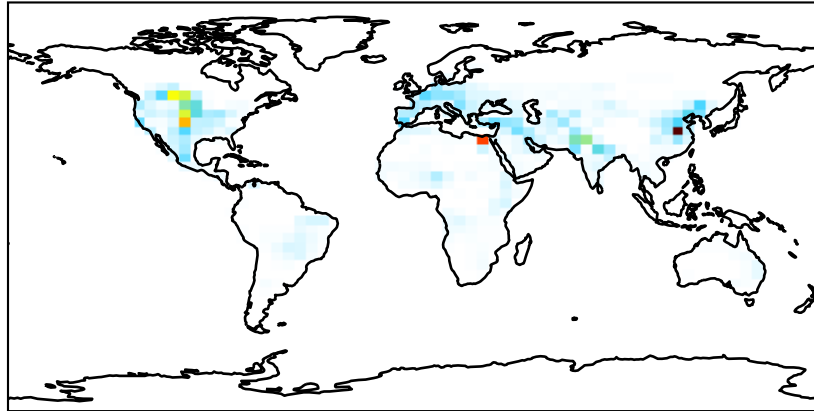


Ratio  
Dev/Ref, Fixed Range

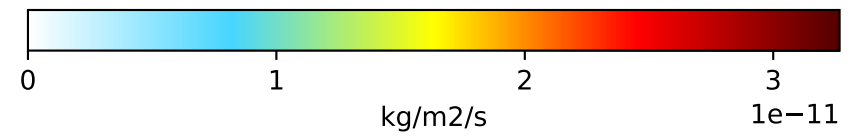
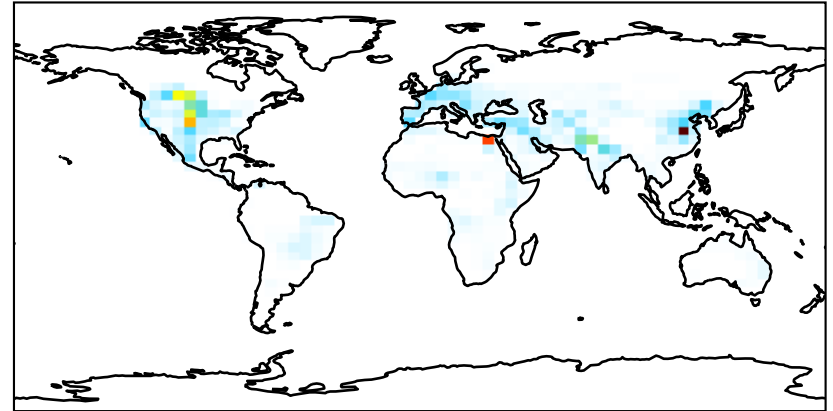


# EmisNO\_Fert (Jul2019)

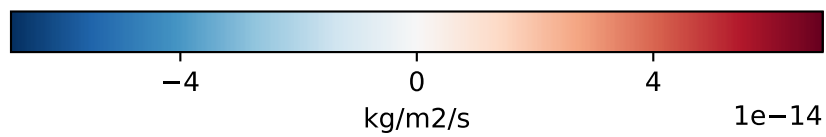
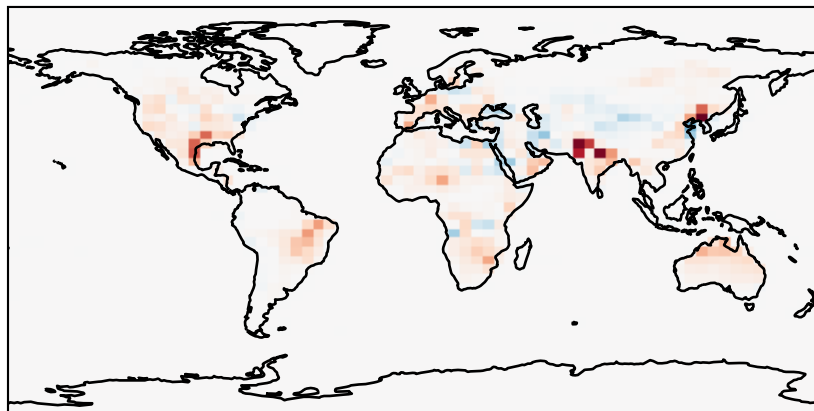
GCC\_13.2.0 (Ref)  
4.0x5.0



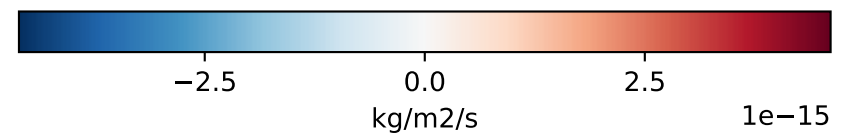
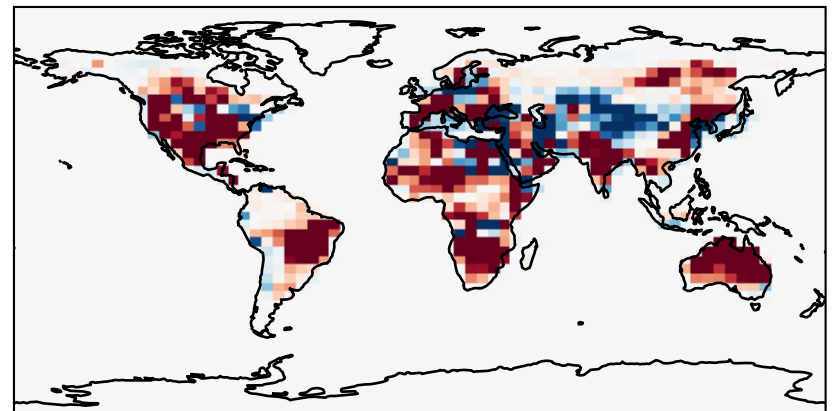
GCC\_13.3.0 (Dev)  
4.0x5.0



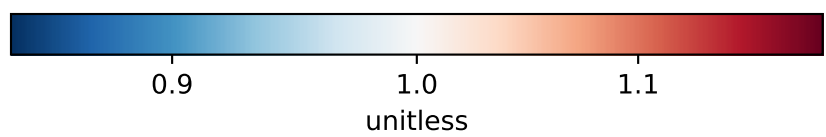
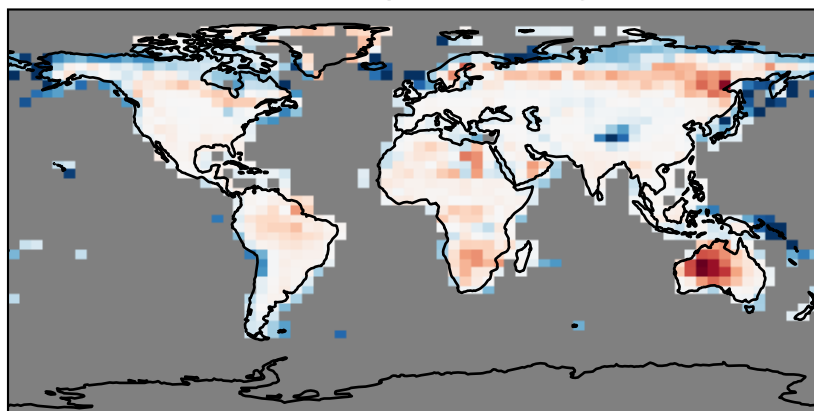
Difference  
Dev - Ref, Dynamic Range



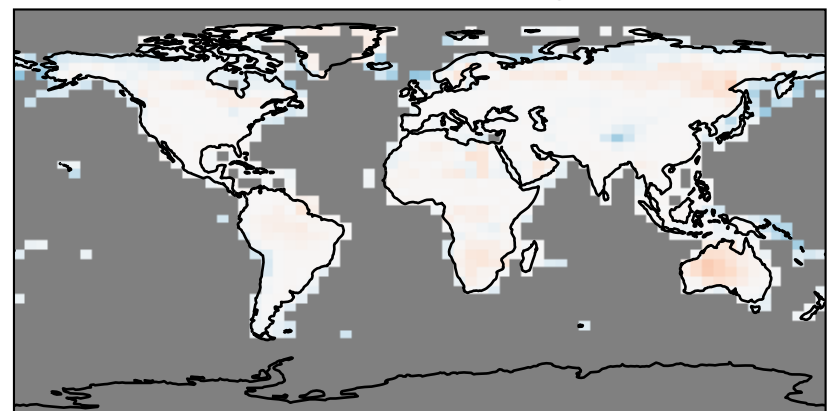
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

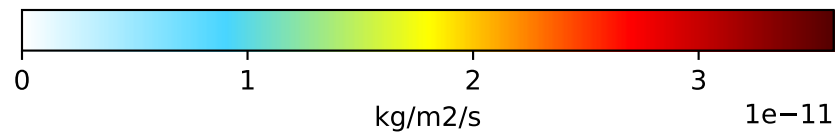
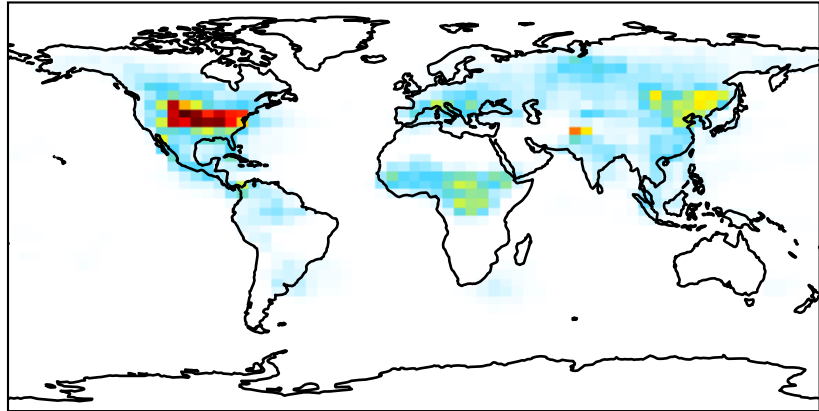


Ratio  
Dev/Ref, Fixed Range

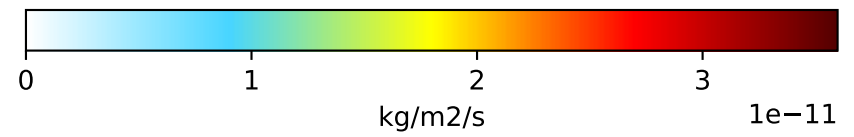
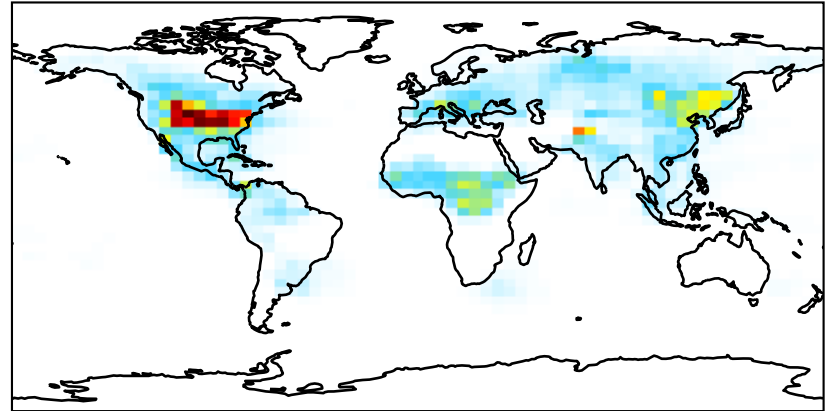


# EmisNO\_Lightning (Jul2019)

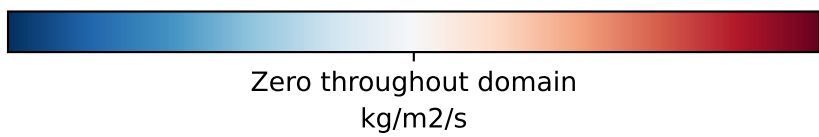
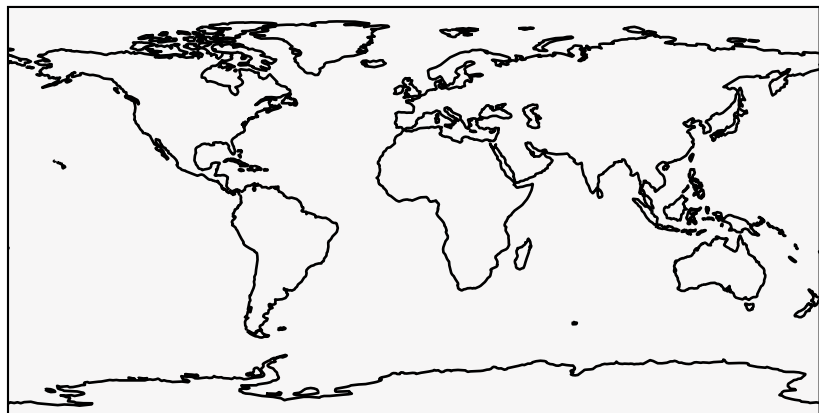
GCC\_13.2.0 (Ref)  
4.0x5.0



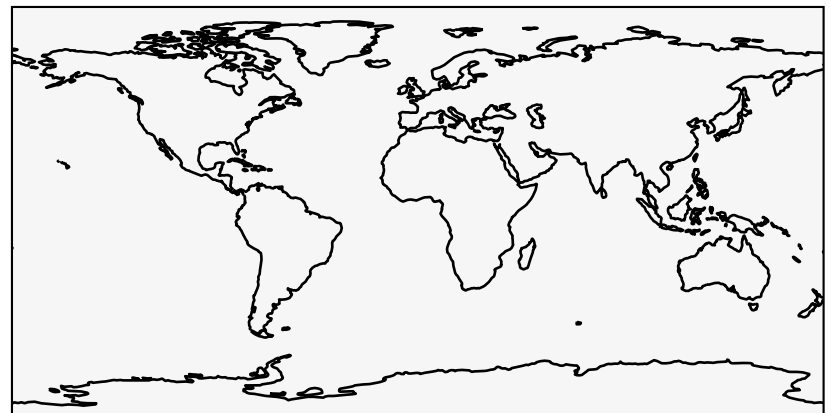
GCC\_13.3.0 (Dev)  
4.0x5.0



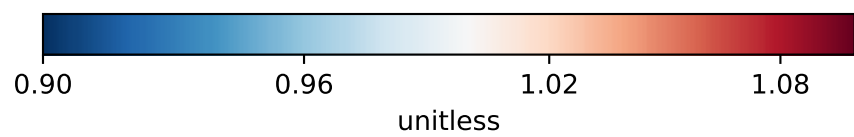
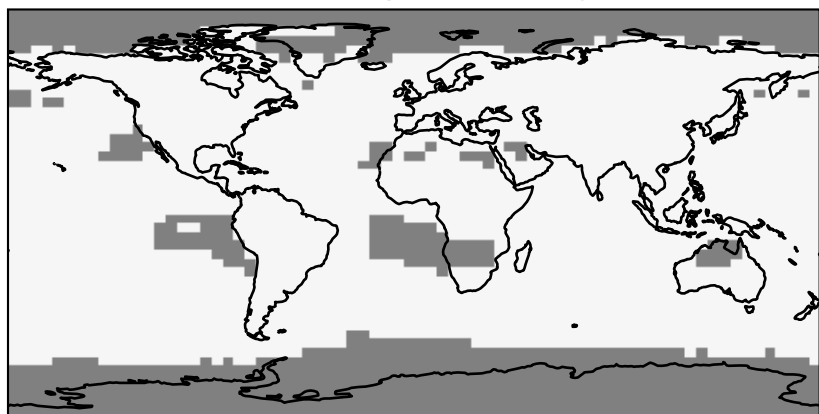
Difference  
Dev - Ref, Dynamic Range



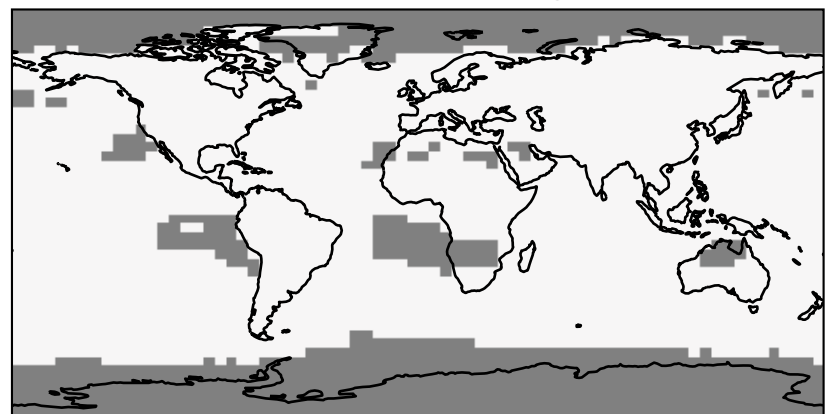
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

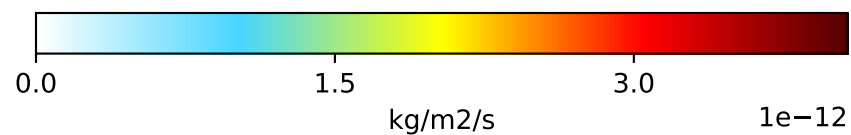
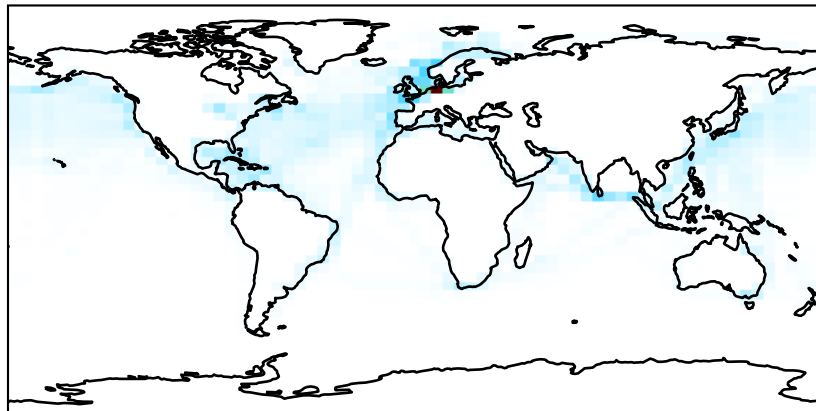


Ratio  
Dev/Ref, Fixed Range

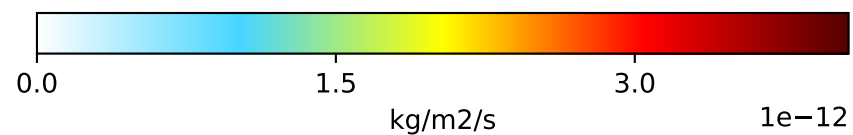
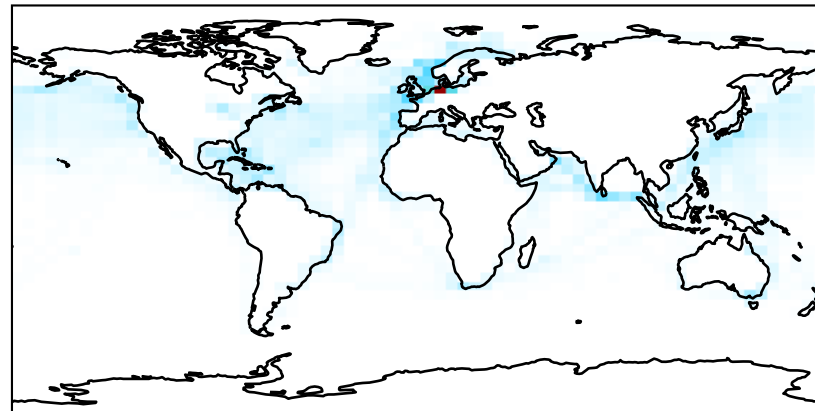


# EmisNO\_Ship (Jul2019)

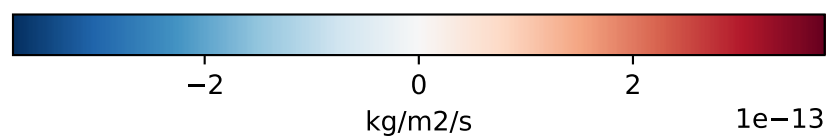
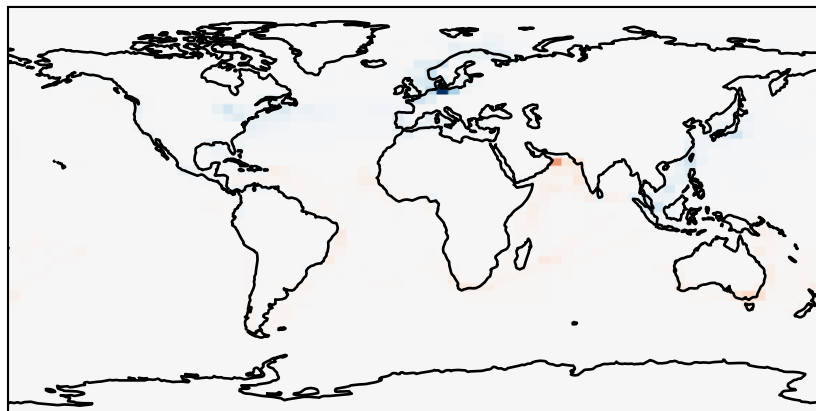
GCC\_13.2.0 (Ref)  
4.0x5.0



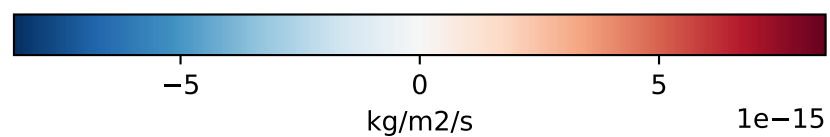
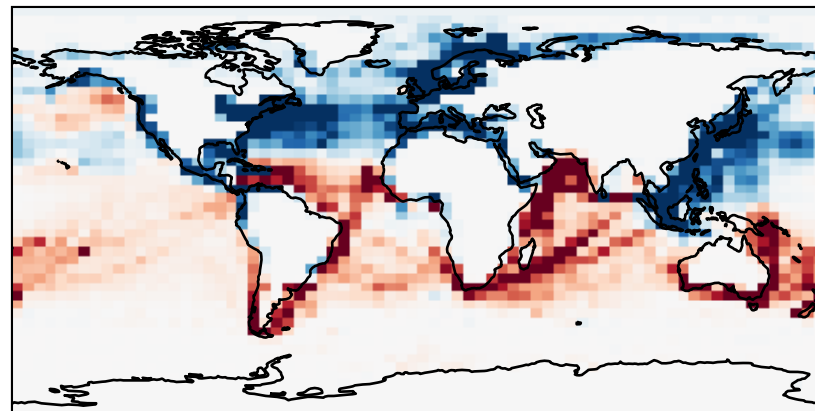
GCC\_13.3.0 (Dev)  
4.0x5.0



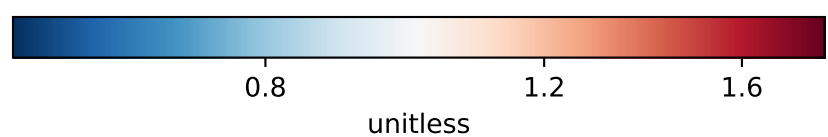
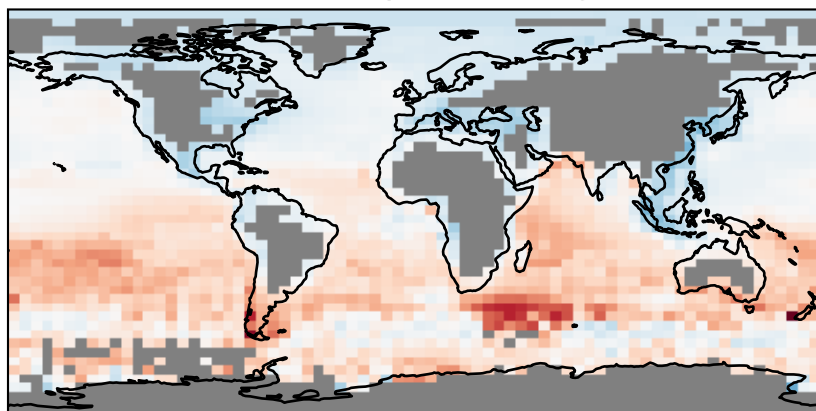
Difference  
Dev - Ref, Dynamic Range



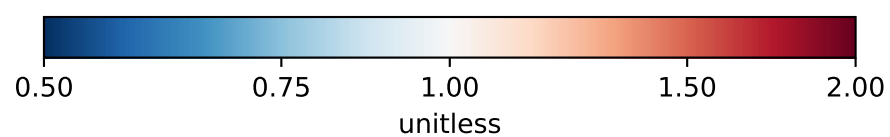
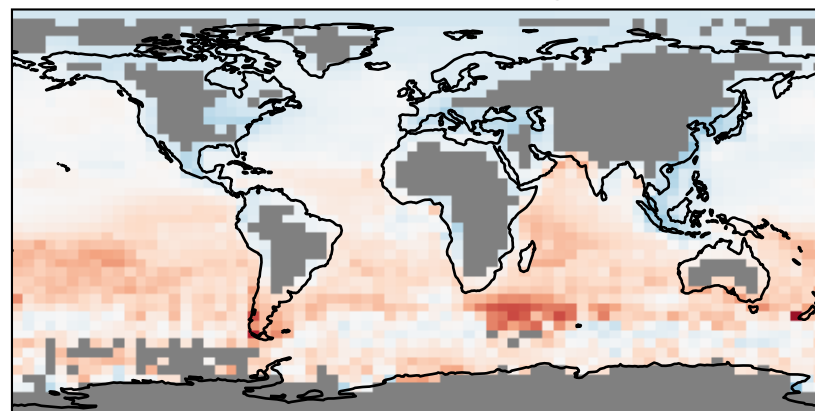
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



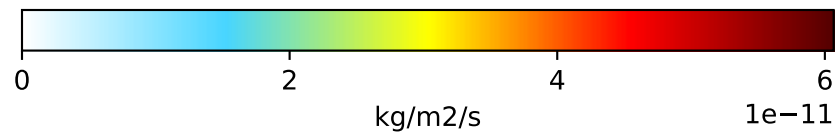
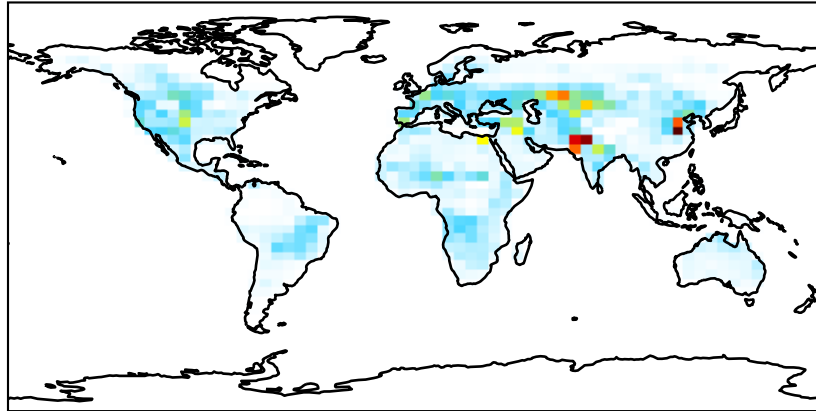
Ratio  
Dev/Ref, Fixed Range



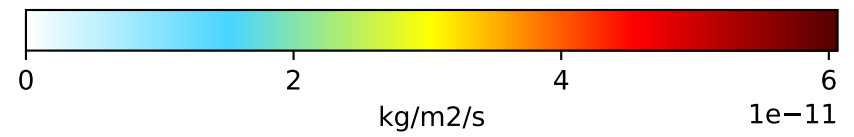
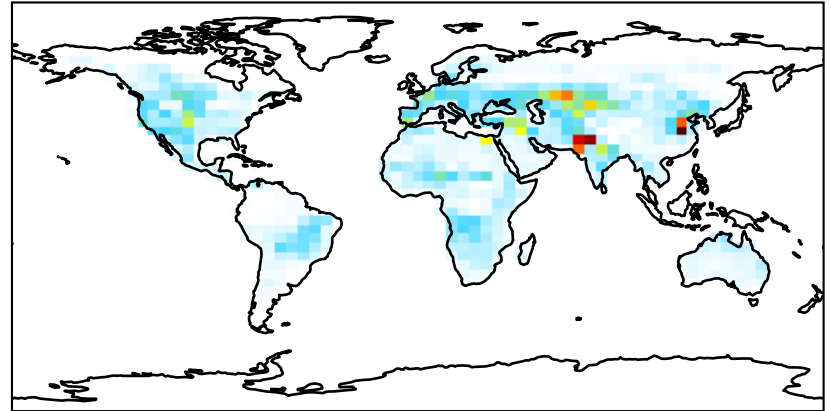


# EmisNO\_Soil (Jul2019)

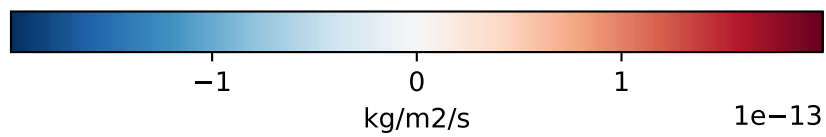
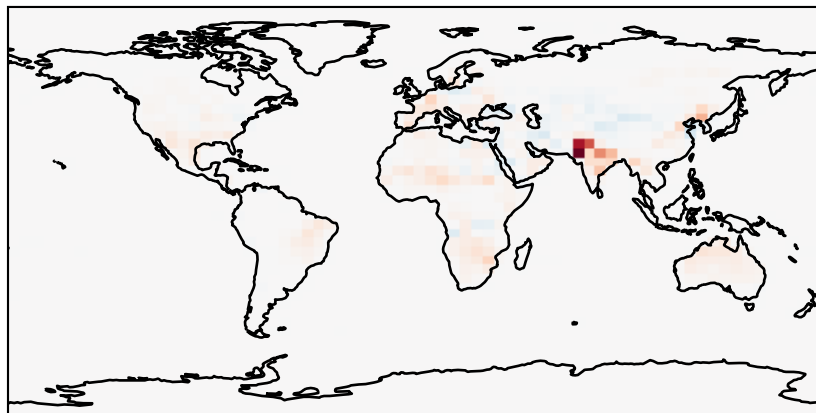
GCC\_13.2.0 (Ref)  
4.0x5.0



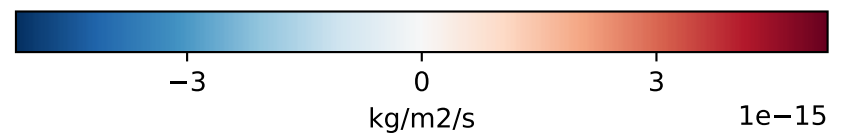
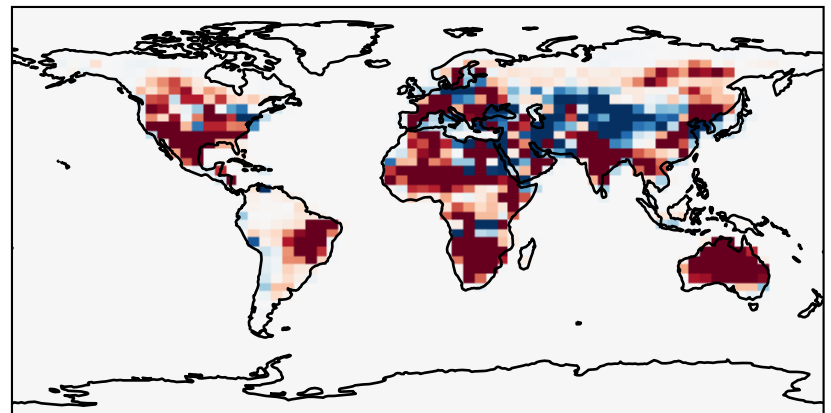
GCC\_13.3.0 (Dev)  
4.0x5.0



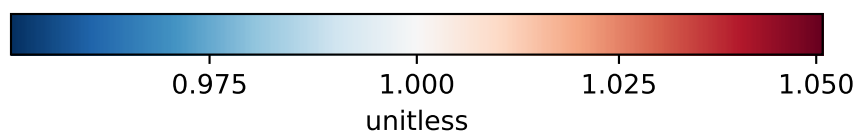
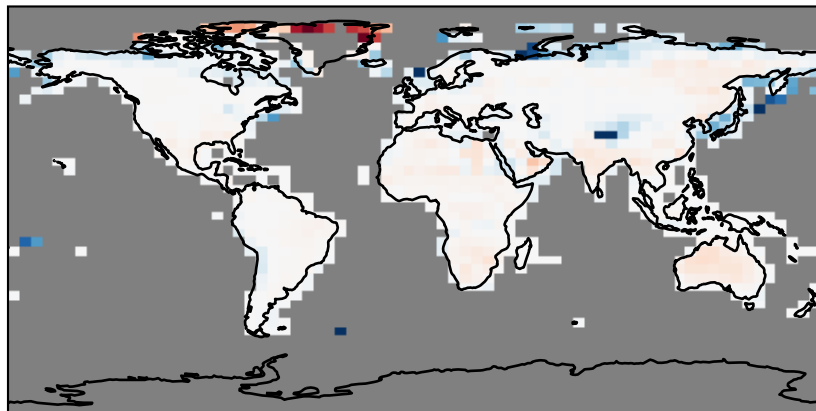
Difference  
Dev - Ref, Dynamic Range



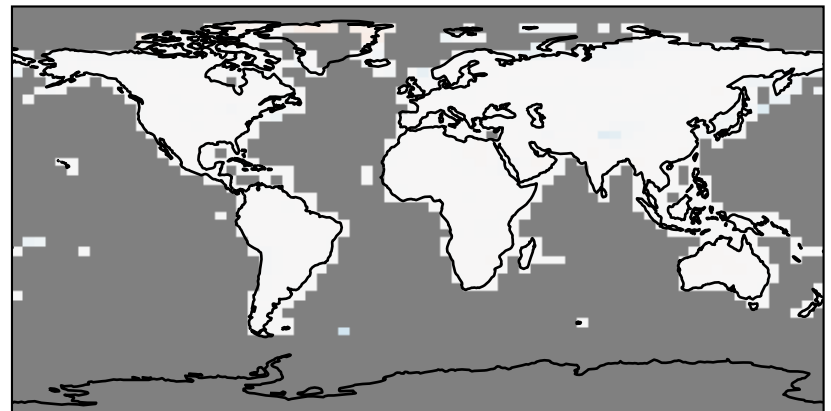
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

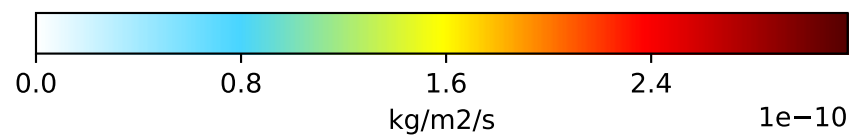
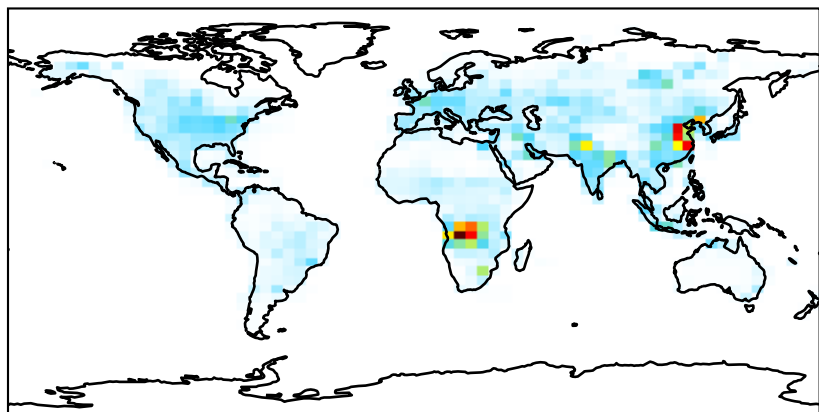


Ratio  
Dev/Ref, Fixed Range

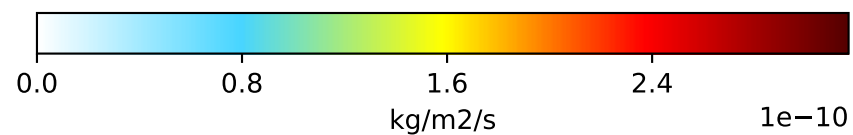
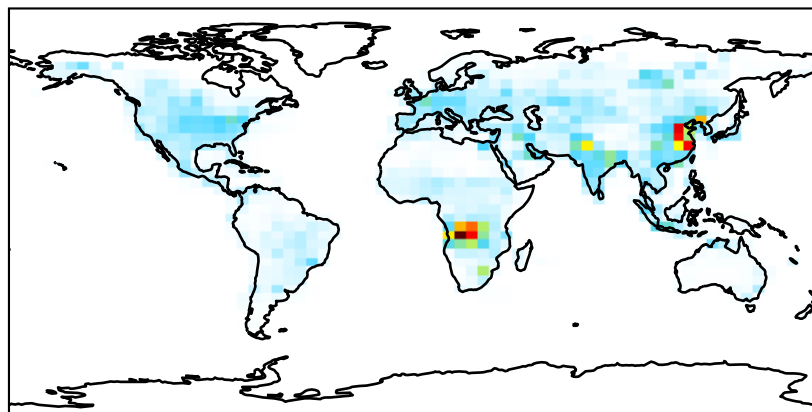


# EmisNO\_Total (Jul2019)

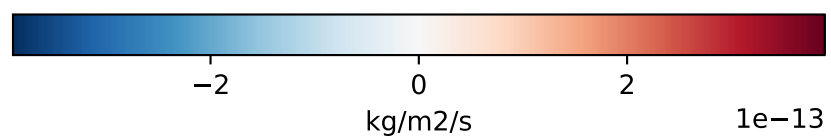
GCC\_13.2.0 (Ref)  
4.0x5.0



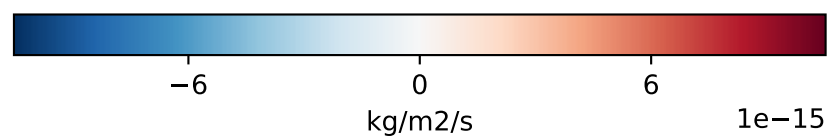
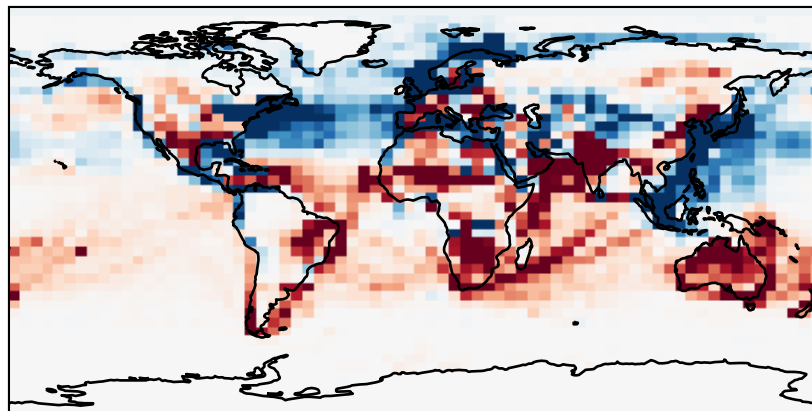
GCC\_13.3.0 (Dev)  
4.0x5.0



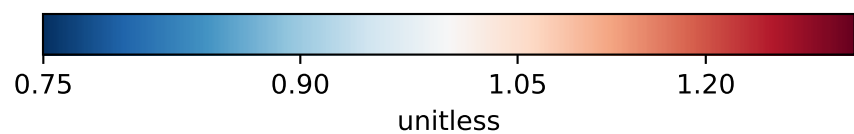
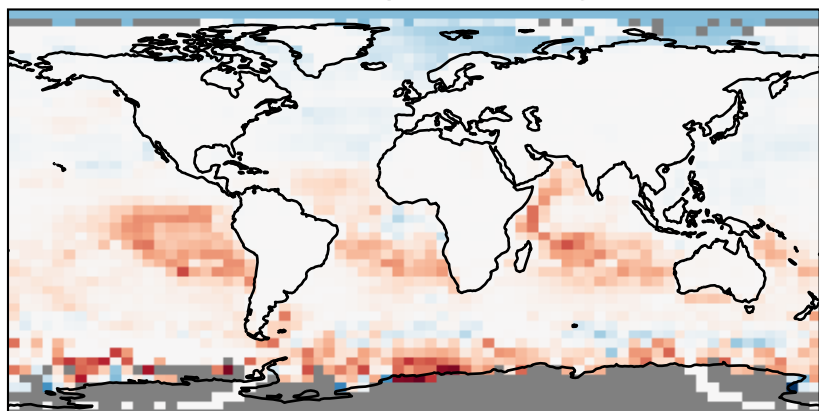
Difference  
Dev - Ref, Dynamic Range



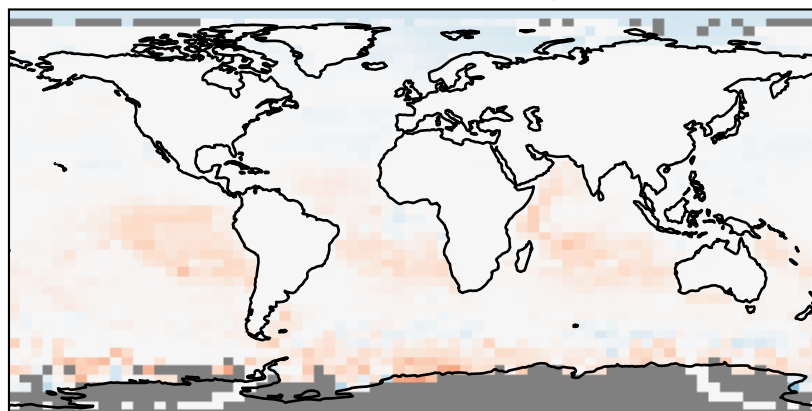
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range



# EmisNO2\_Anthro (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



Zero throughout domain  
kg/m2/s

GCC\_13.3.0 (Dev)  
4.0x5.0



Zero throughout domain  
kg/m2/s

Difference  
Dev - Ref, Dynamic Range



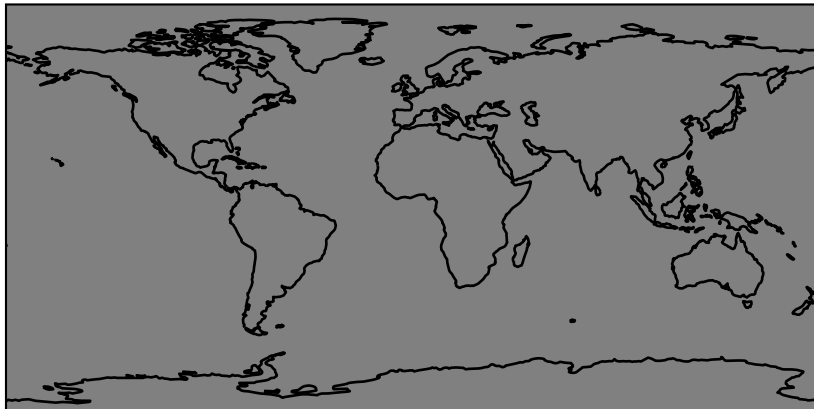
Zero throughout domain  
kg/m2/s

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



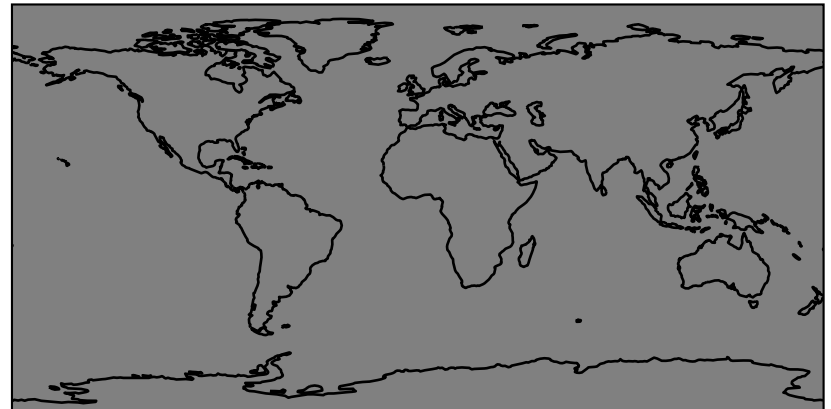
Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

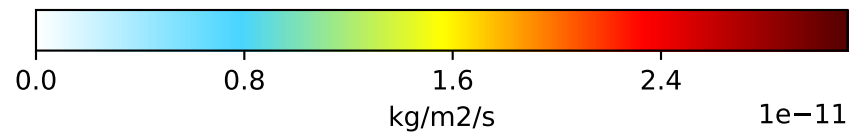
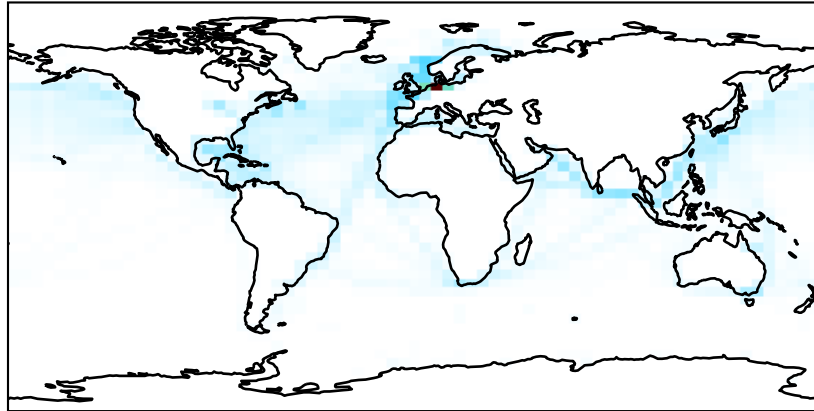
Ratio  
Dev/Ref, Fixed Range



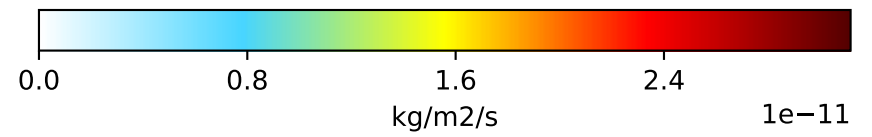
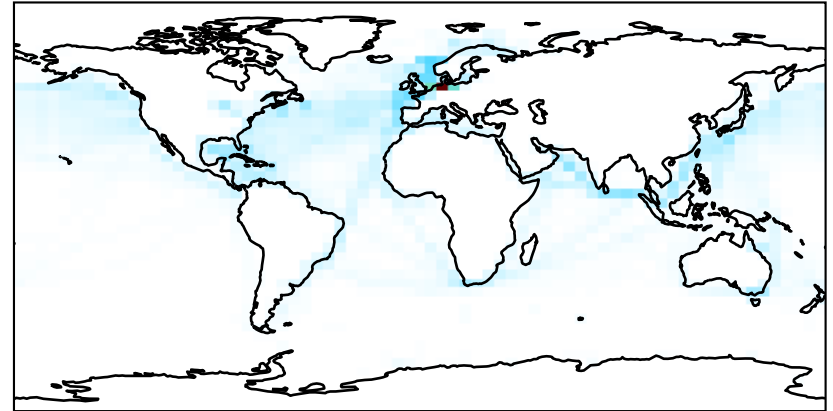
Undefined throughout domain  
unitless

# EmisNO2\_Ship (Jul2019)

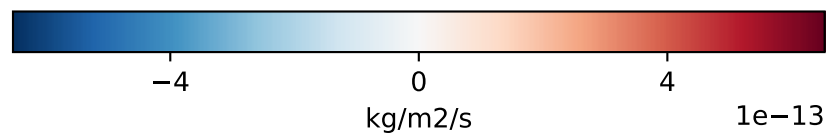
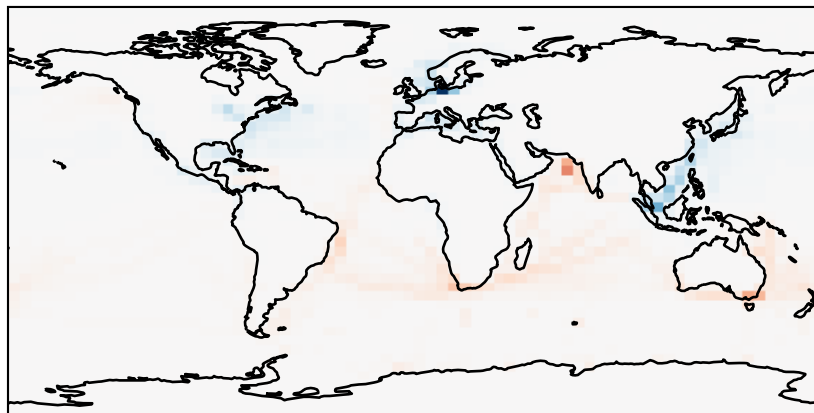
GCC\_13.2.0 (Ref)  
4.0x5.0



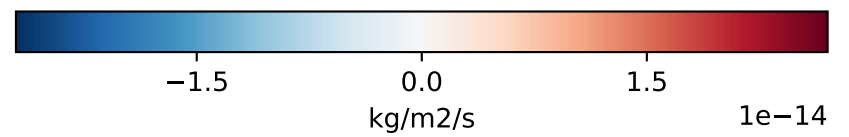
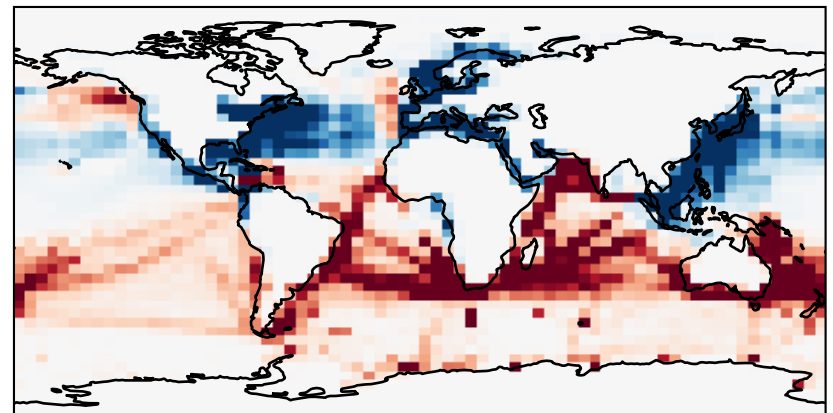
GCC\_13.3.0 (Dev)  
4.0x5.0



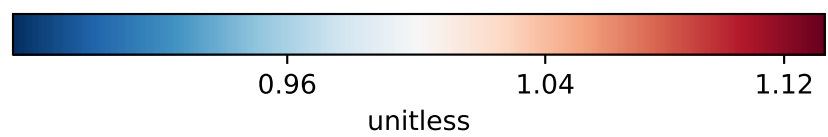
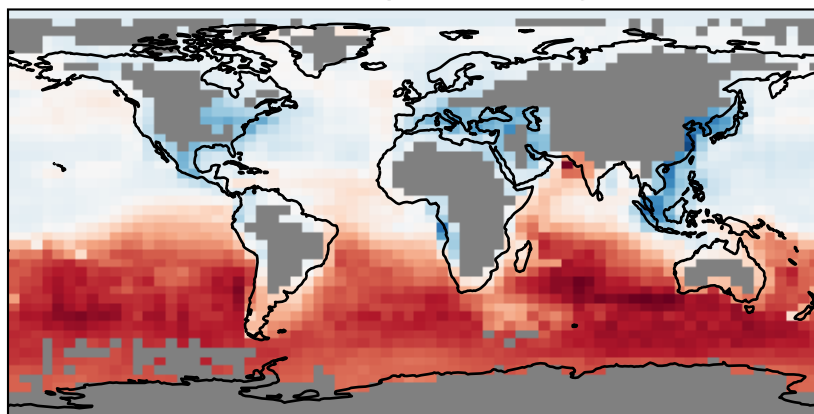
Difference  
Dev - Ref, Dynamic Range



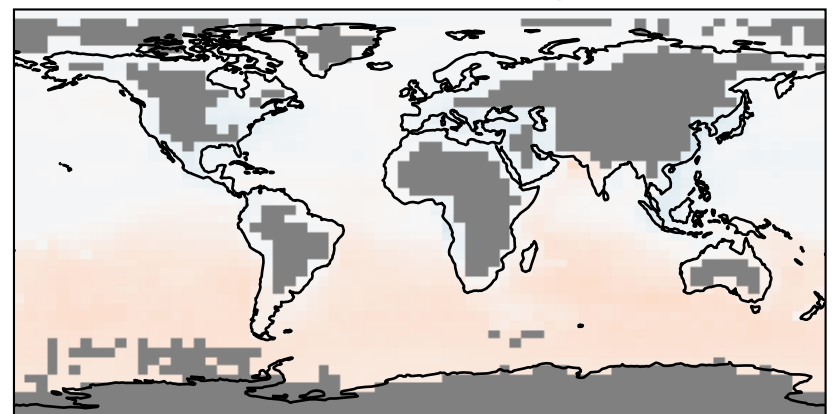
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

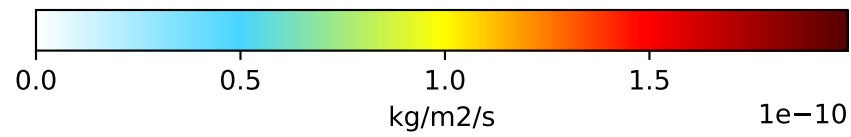
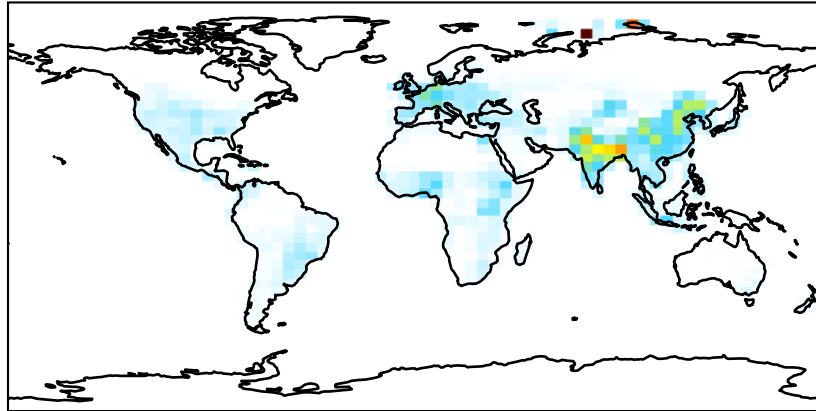


Ratio  
Dev/Ref, Fixed Range

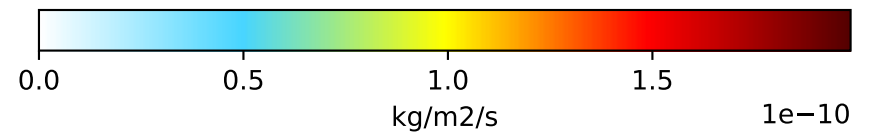
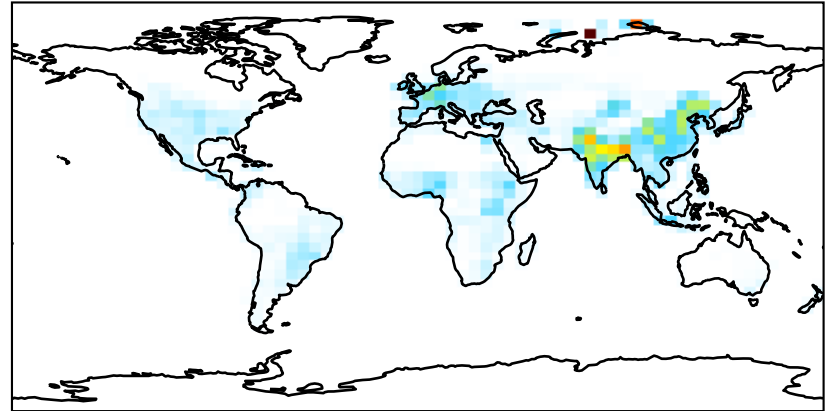


# EmisNH3\_Anthro (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



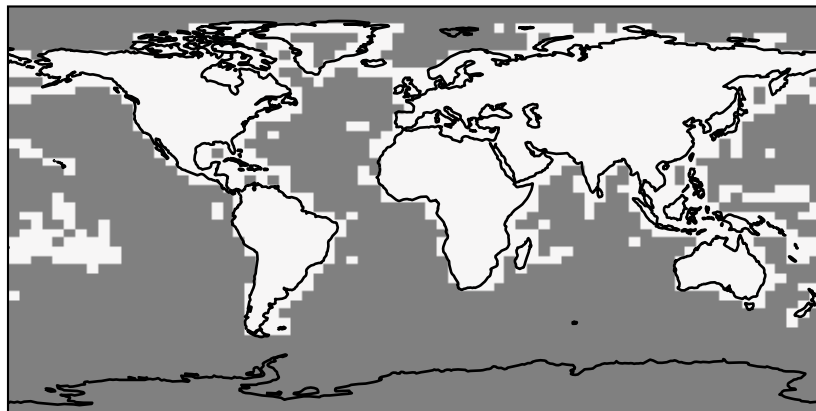
Difference  
Dev - Ref, Dynamic Range



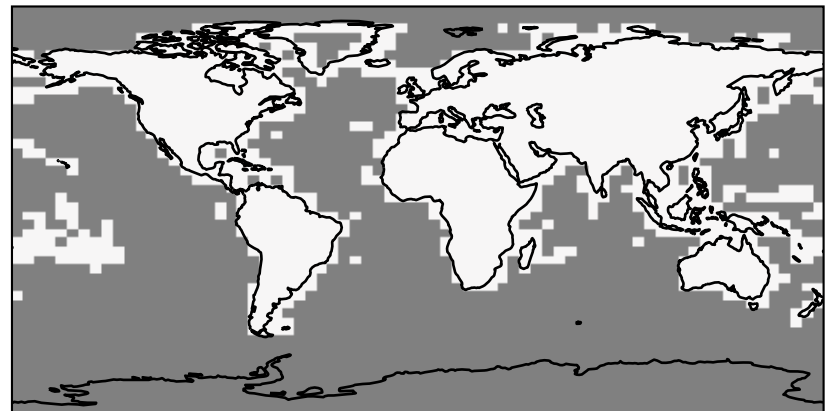
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

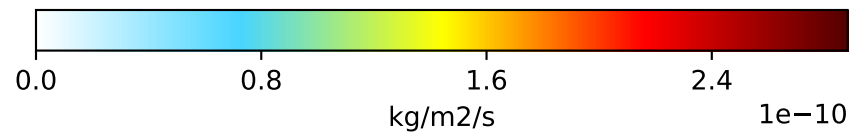
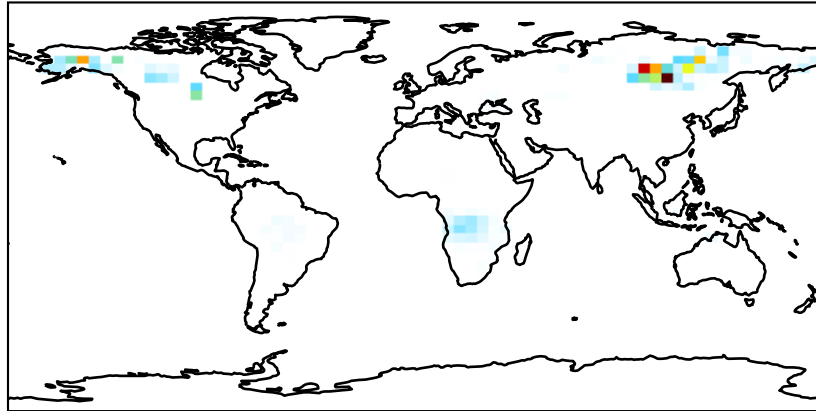


Ratio  
Dev/Ref, Fixed Range

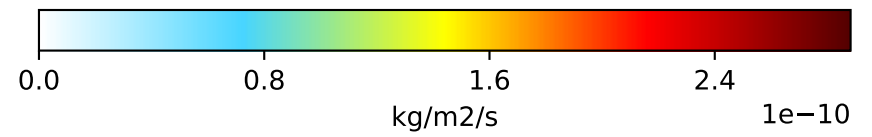
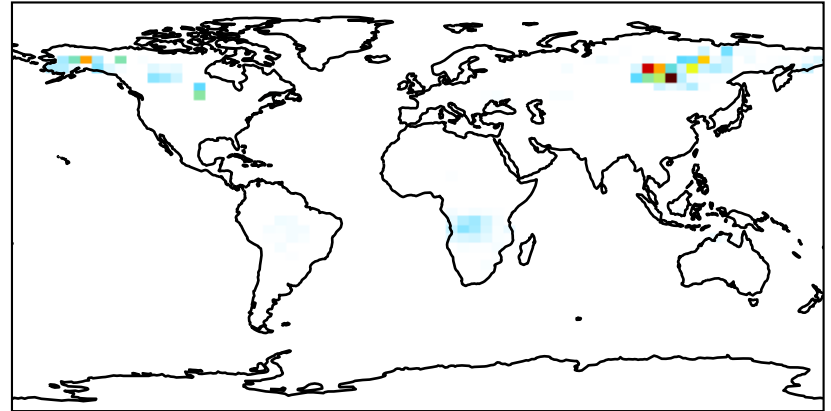


# EmisNH3\_BioBurn (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



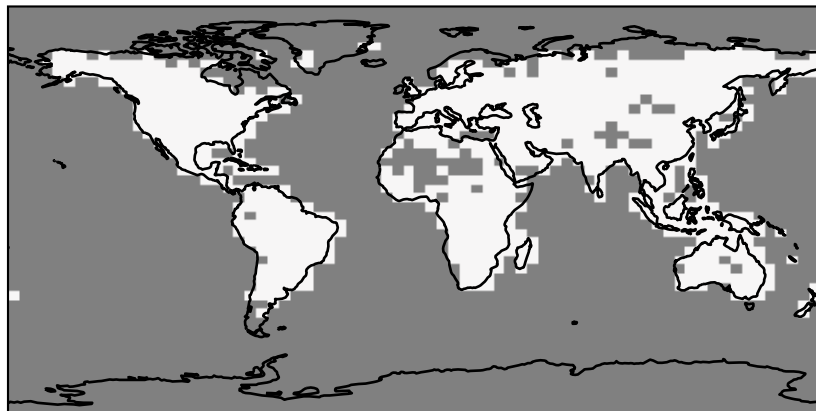
Difference  
Dev - Ref, Dynamic Range



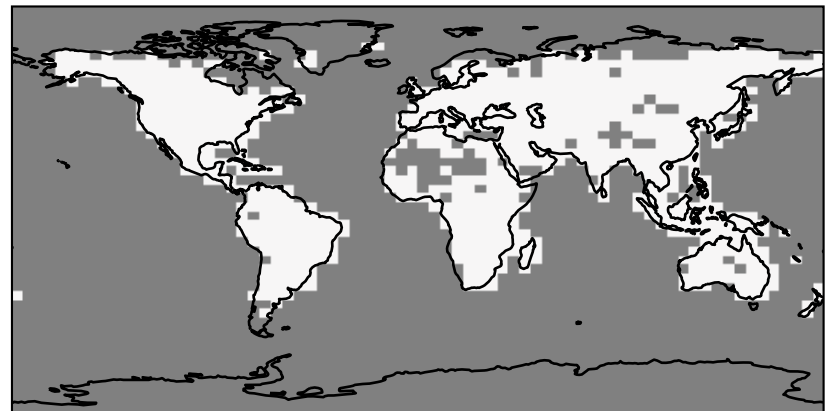
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

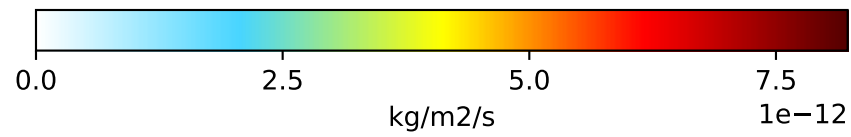
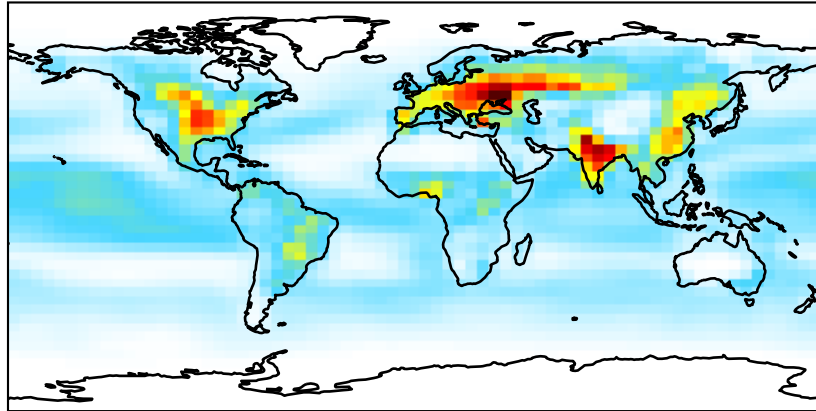


Ratio  
Dev/Ref, Fixed Range

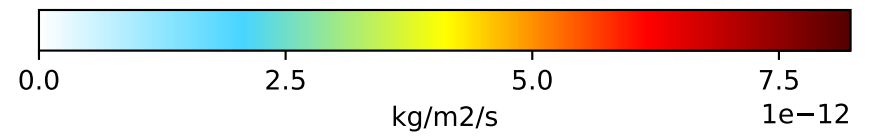
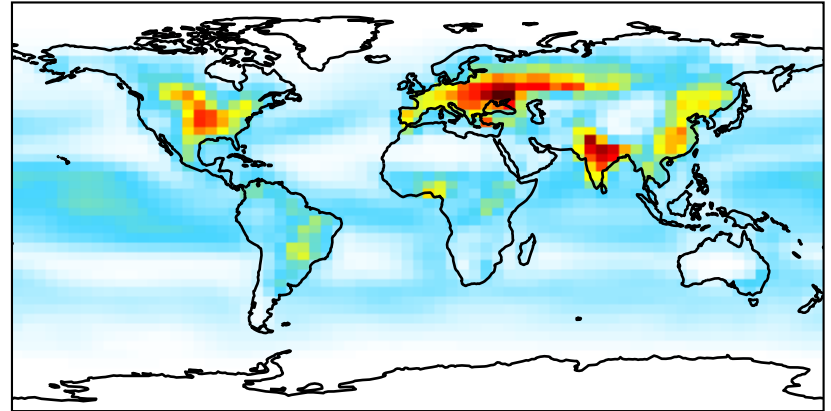


# EmisNH3\_Natural (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



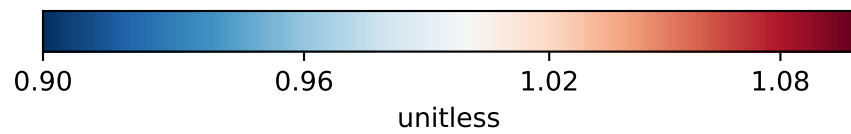
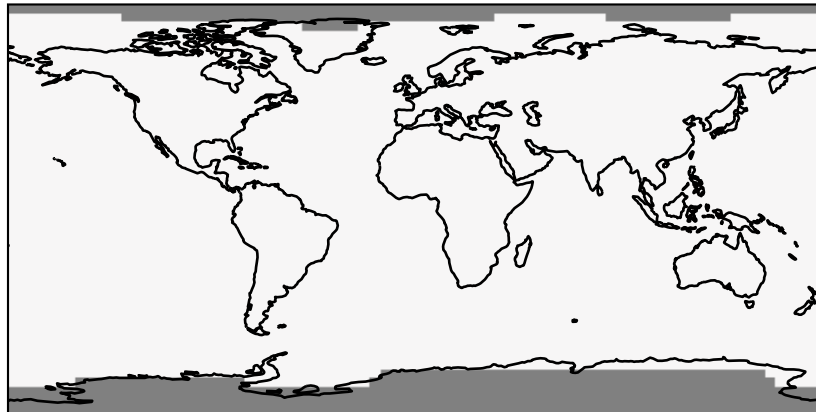
Difference  
Dev - Ref, Dynamic Range



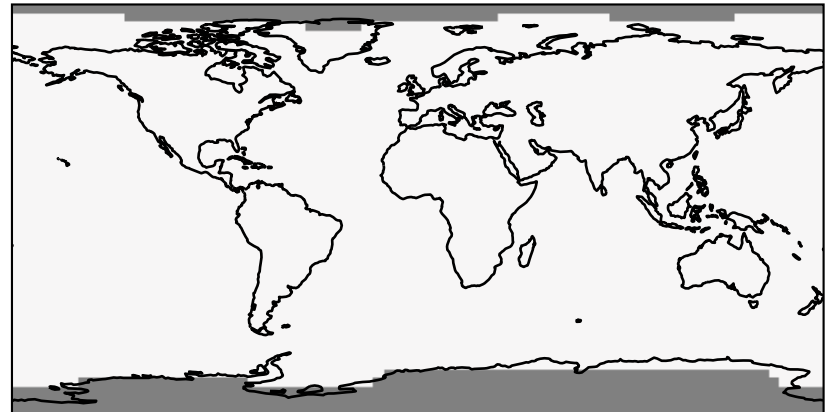
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

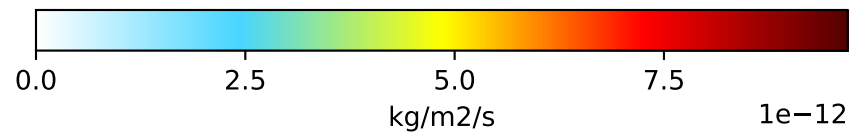
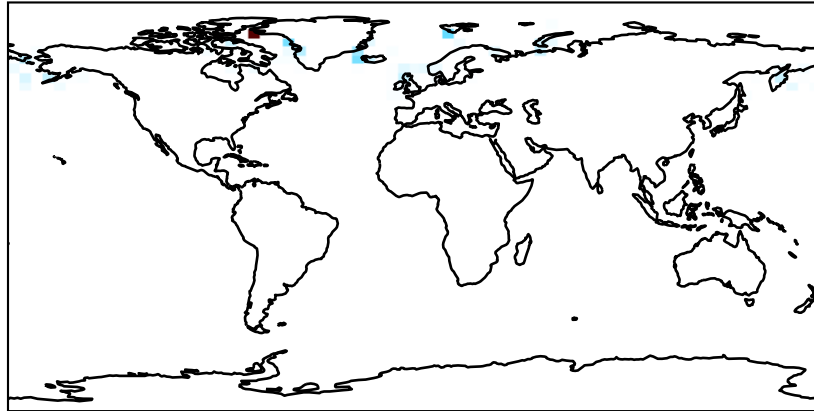


Ratio  
Dev/Ref, Fixed Range

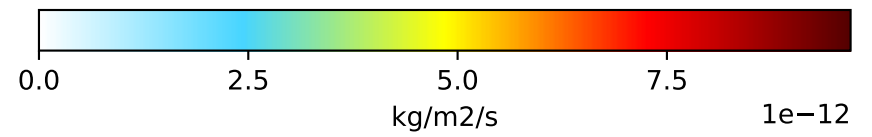
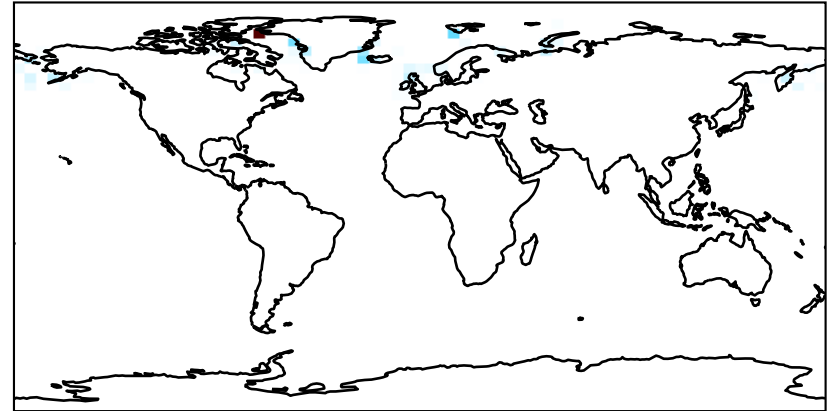


# EmisNH3\_Seabirds (Jul2019)

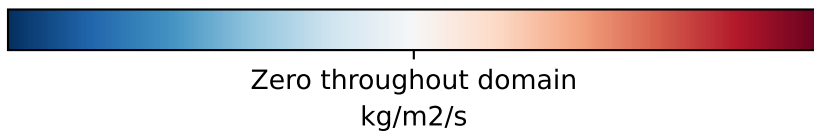
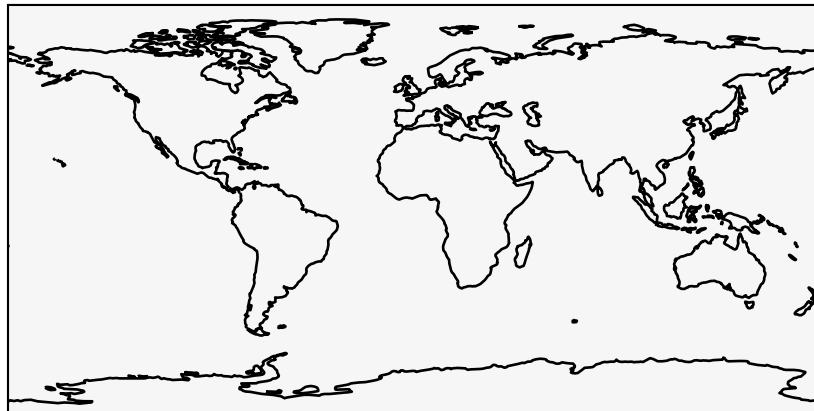
GCC\_13.2.0 (Ref)  
4.0x5.0



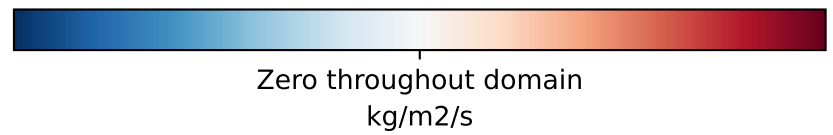
GCC\_13.3.0 (Dev)  
4.0x5.0



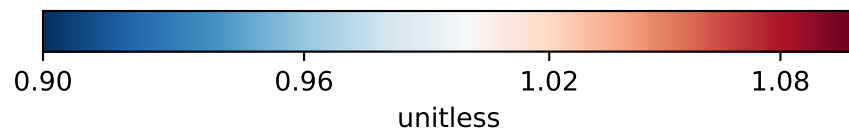
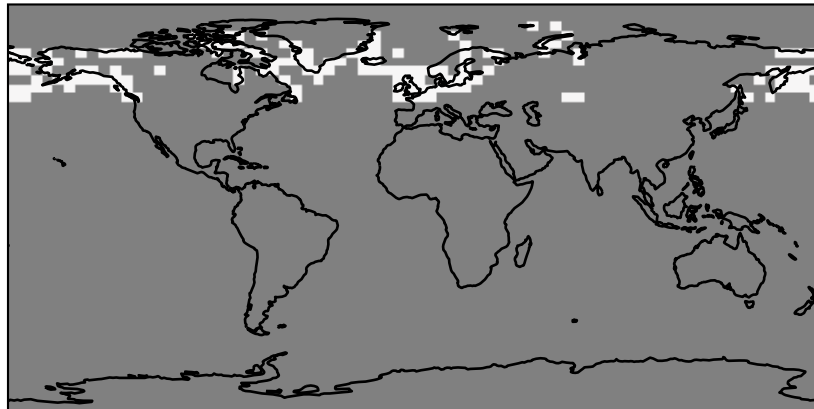
Difference  
Dev - Ref, Dynamic Range



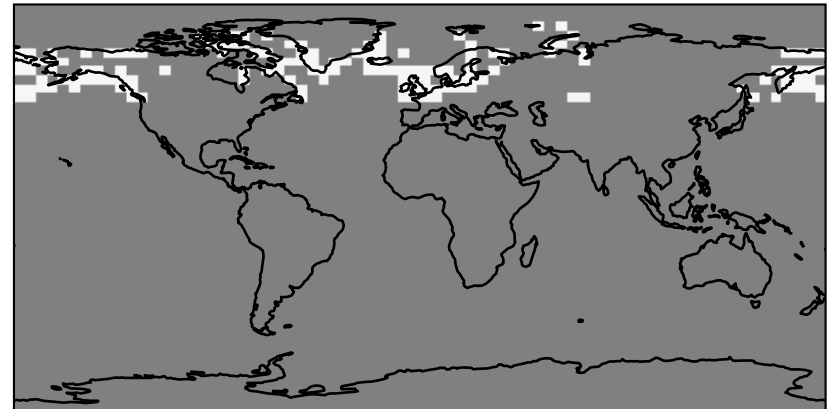
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



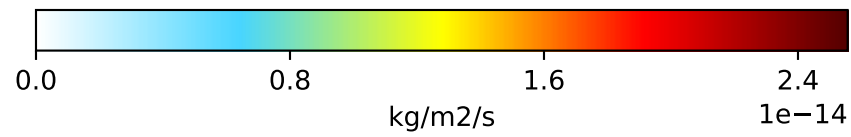
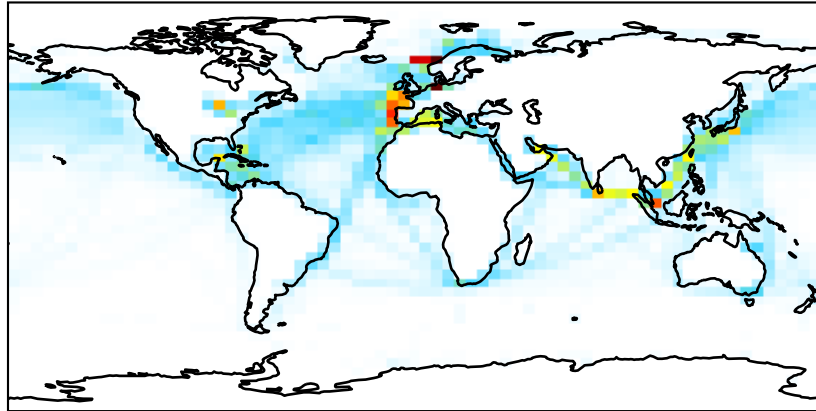
Ratio  
Dev/Ref, Fixed Range



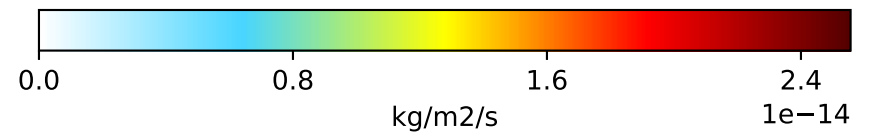
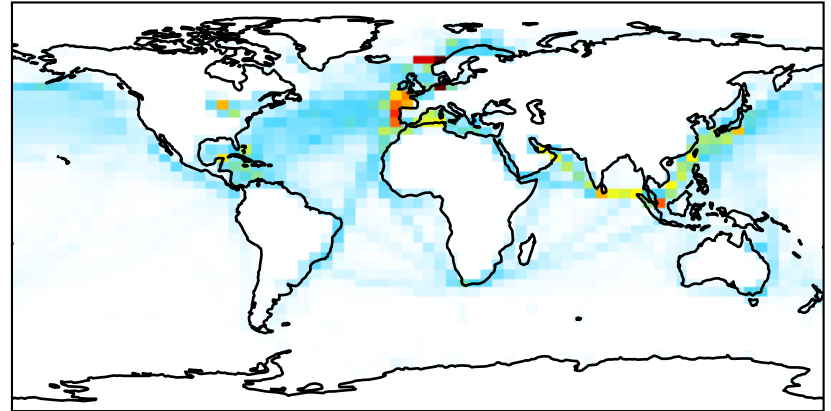


# EmisNH3\_Ship (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range

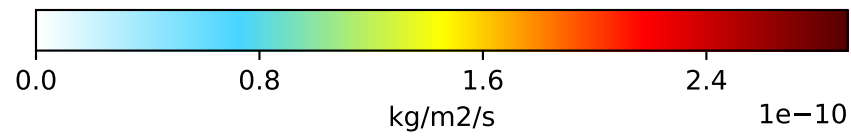
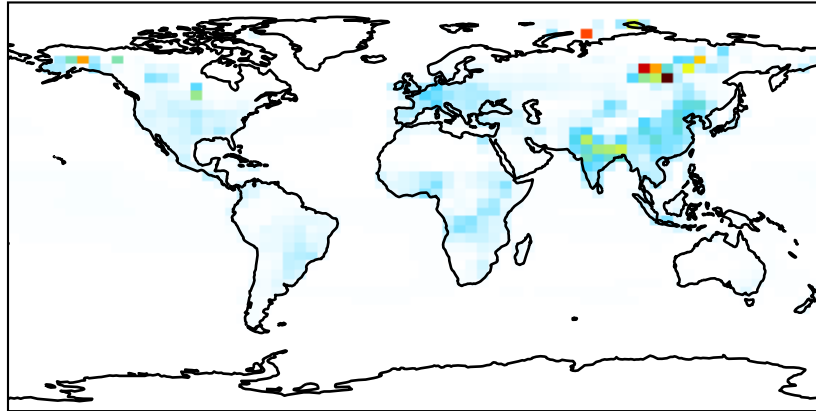


Ratio  
Dev/Ref, Fixed Range

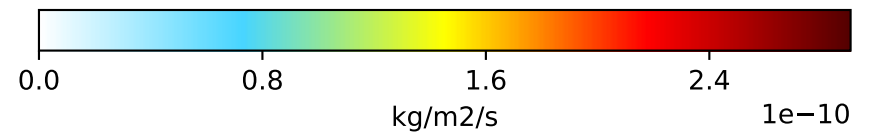
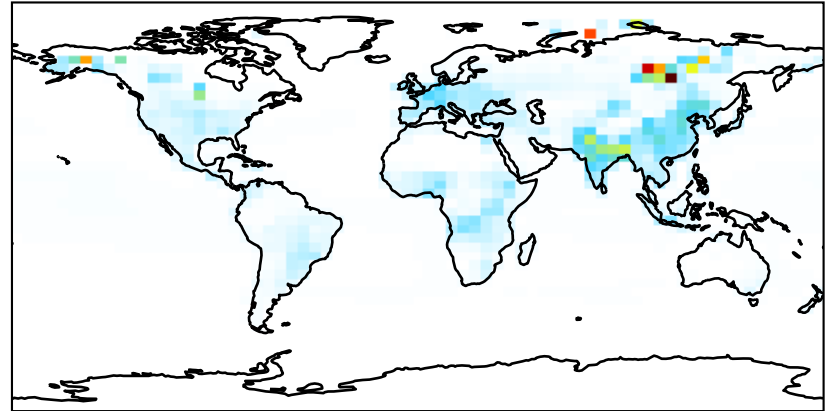


# EmisNH3\_Total (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



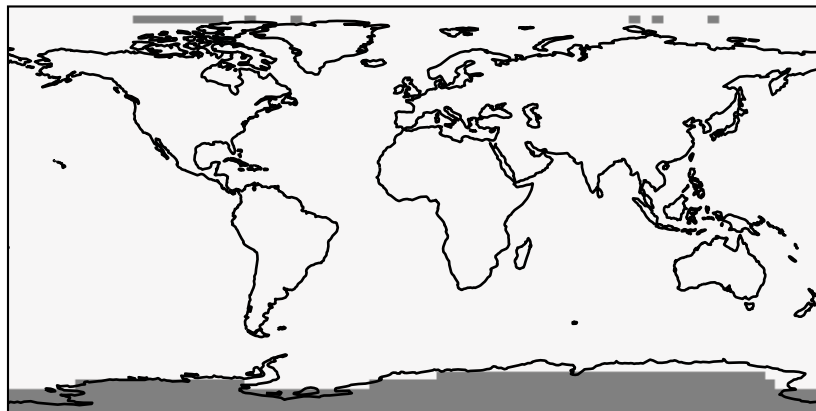
Difference  
Dev - Ref, Dynamic Range



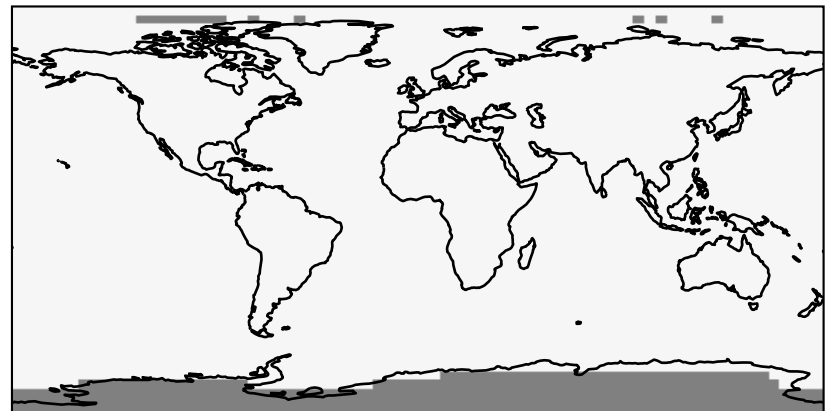
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

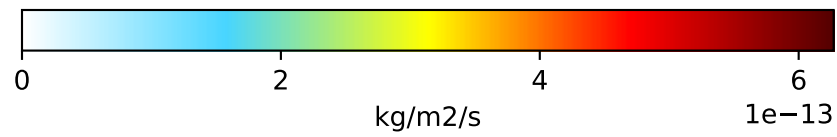
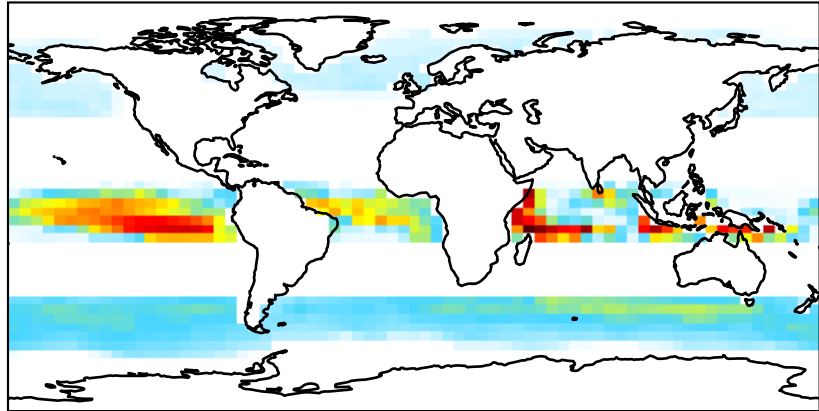


Ratio  
Dev/Ref, Fixed Range

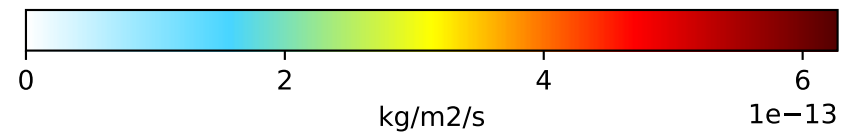
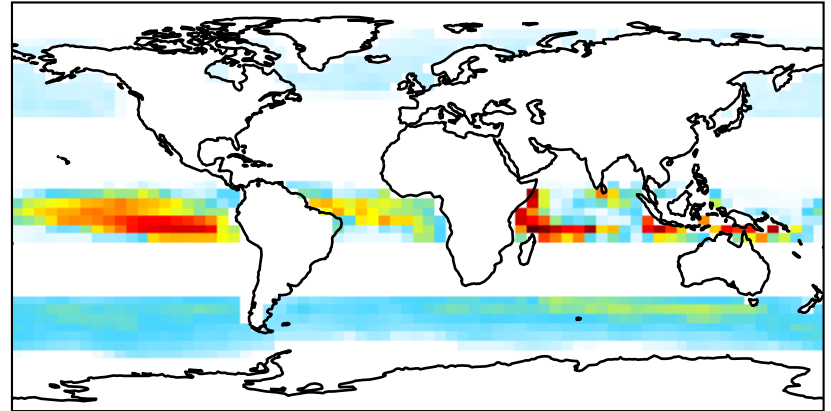


# EmisMENO3\_Ocean (Jul2019)

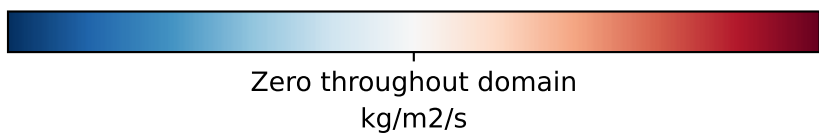
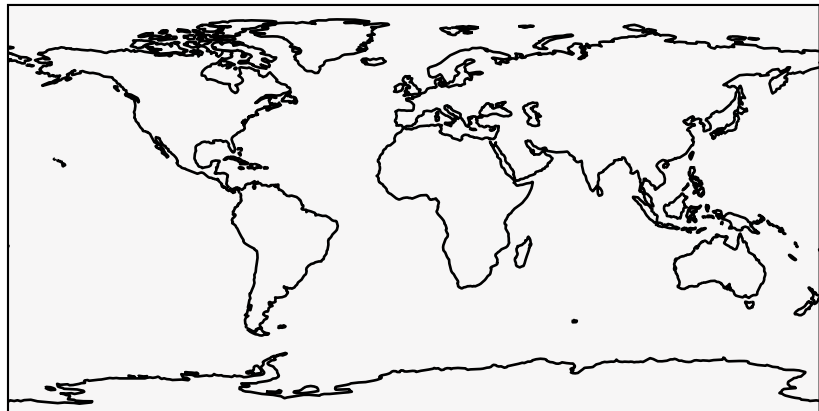
GCC\_13.2.0 (Ref)  
4.0x5.0



GCC\_13.3.0 (Dev)  
4.0x5.0



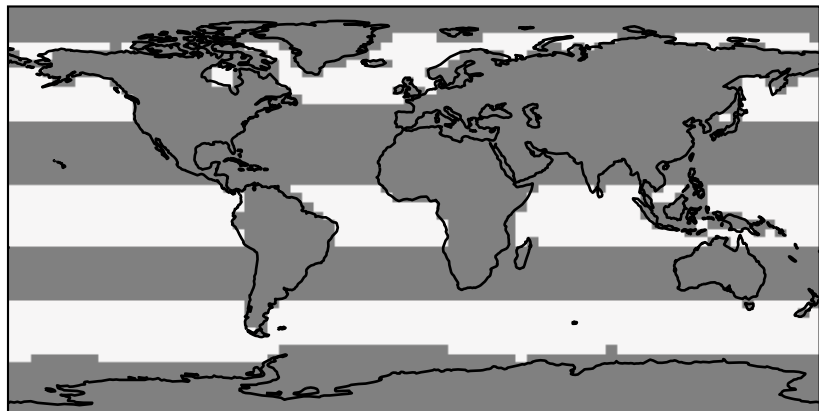
Difference  
Dev - Ref, Dynamic Range



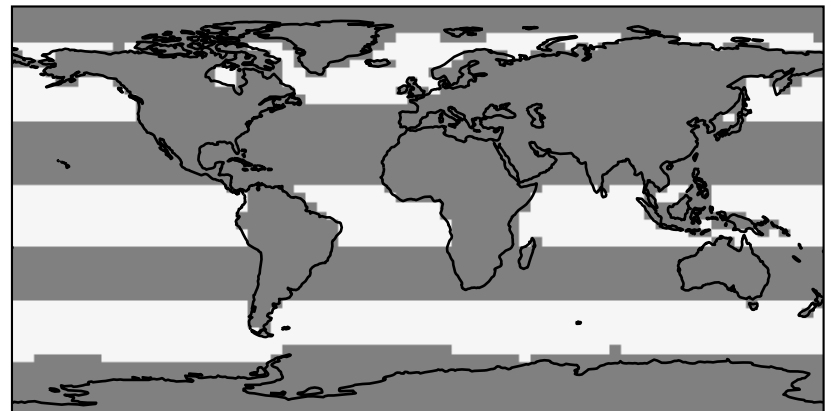
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

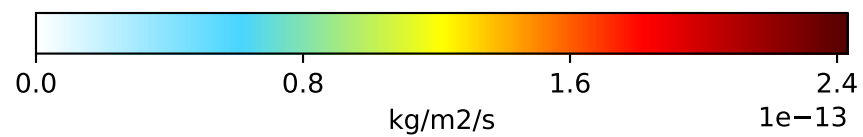
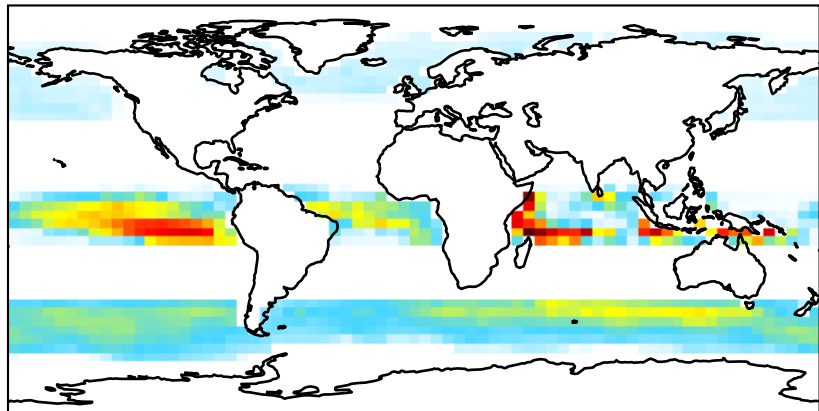


Ratio  
Dev/Ref, Fixed Range

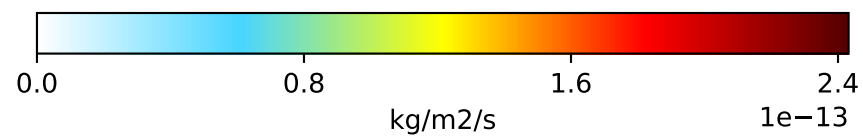
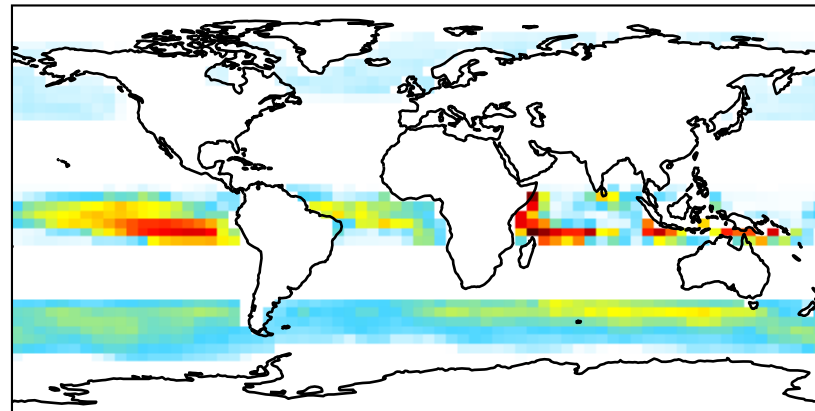


# EmisETNO3\_Ocean (Jul2019)

GCC\_13.2.0 (Ref)  
4.0x5.0



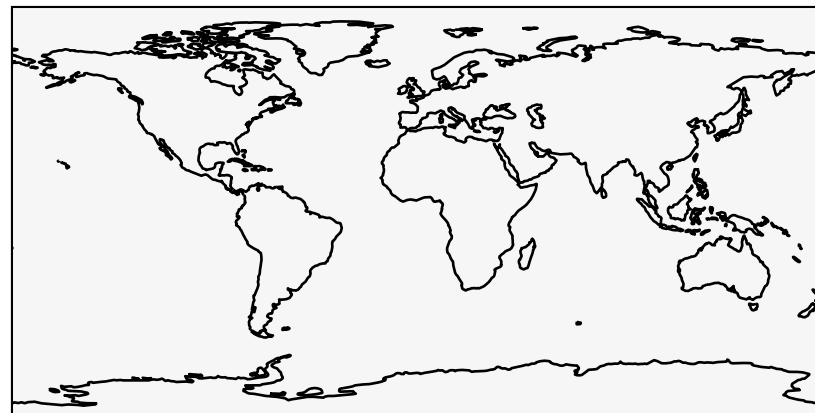
GCC\_13.3.0 (Dev)  
4.0x5.0



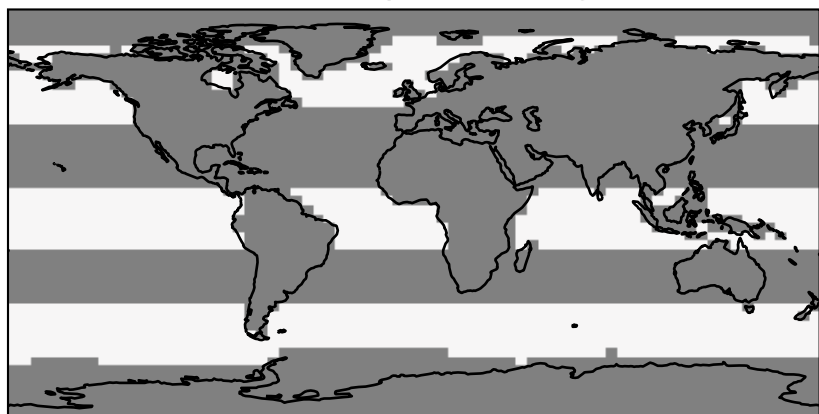
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

