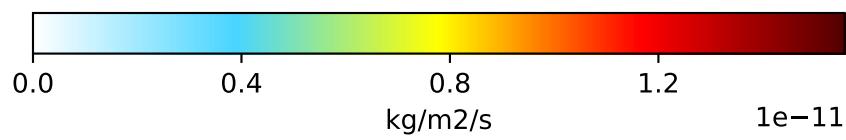
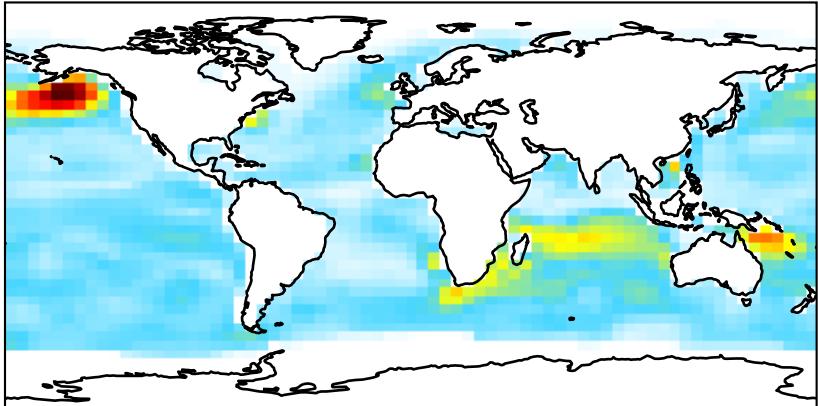
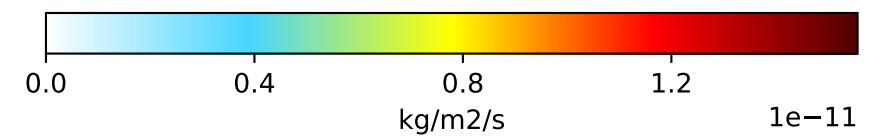
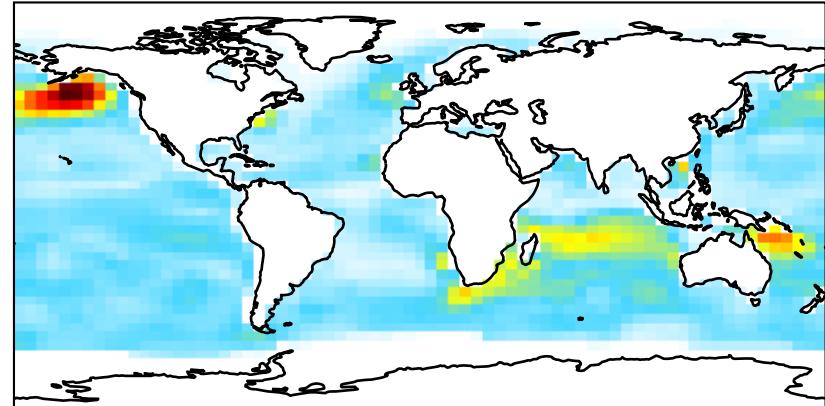


# EmisDMS\_Ocean (Oct2019)

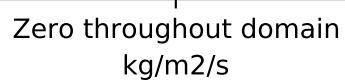
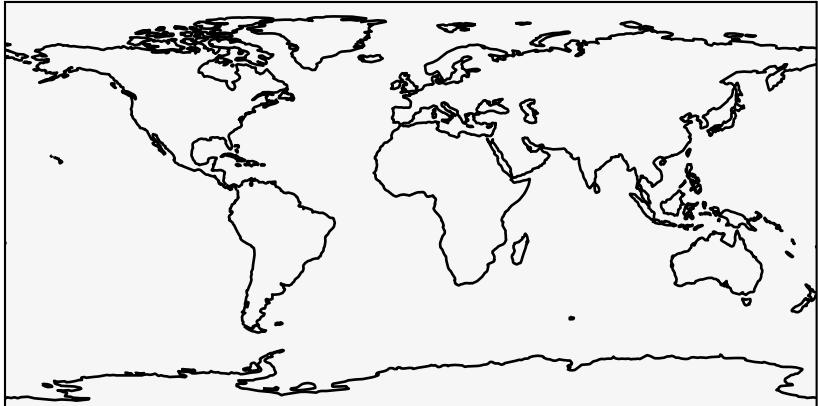
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



GCC\_13.0.0 (Dev)  
4.0x5.0



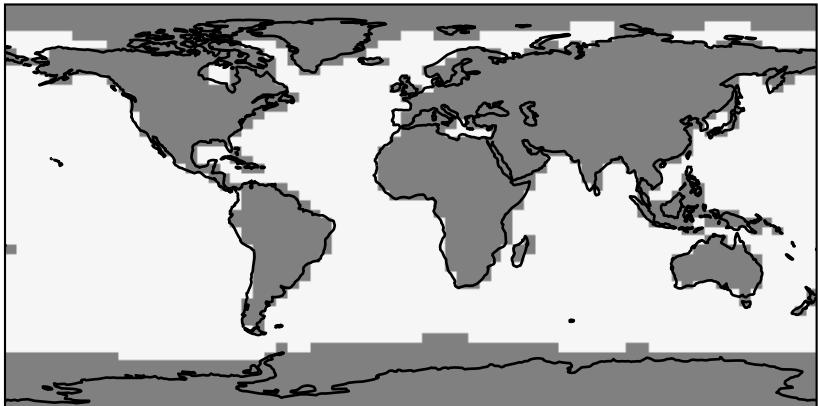
Difference  
Dev - Ref, Dynamic Range



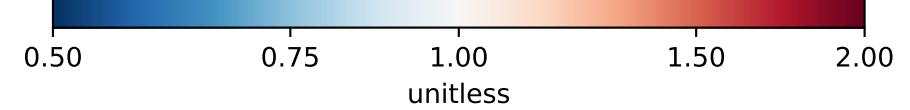
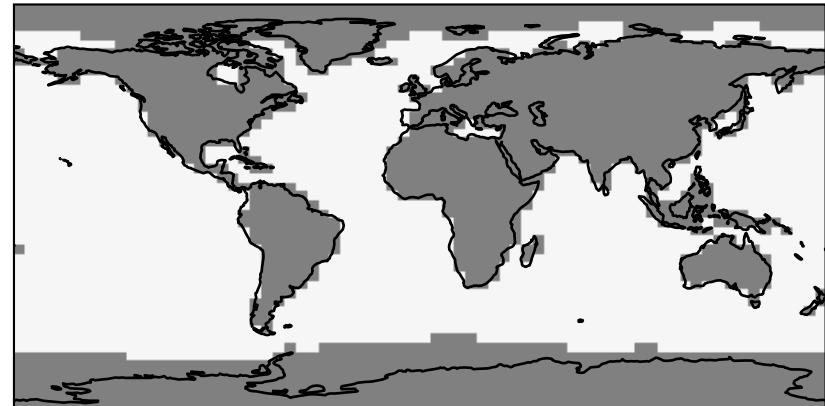
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

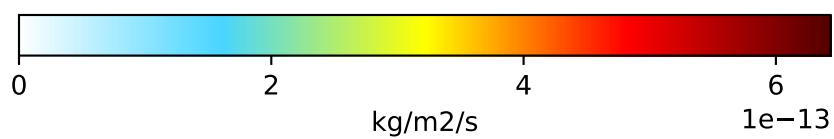
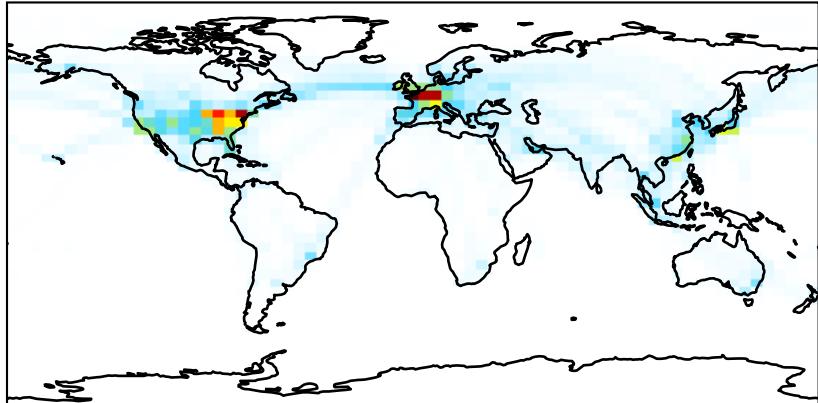


Ratio  
Dev/Ref, Fixed Range

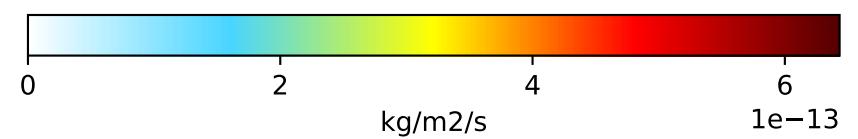
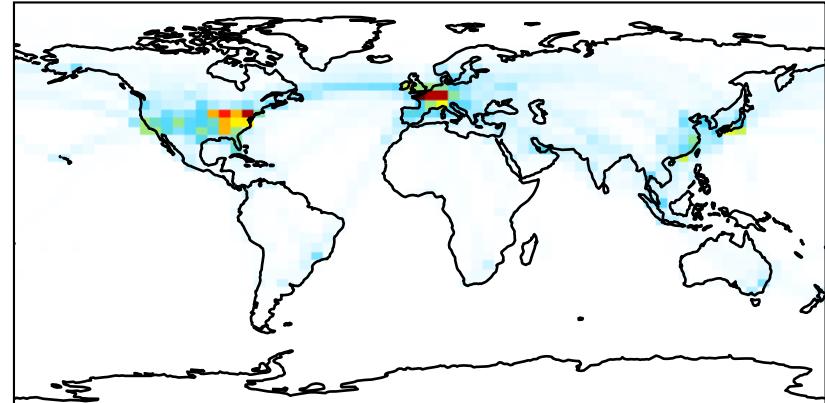


# EmisSO2\_Aircraft (Oct2019)

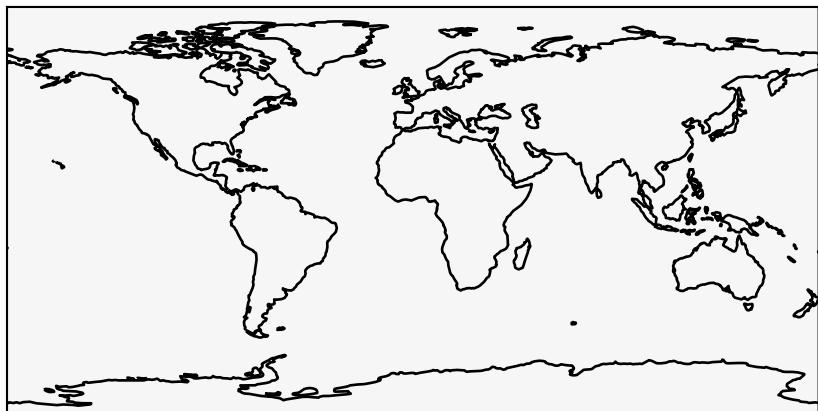
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



GCC\_13.0.0 (Dev)  
4.0x5.0

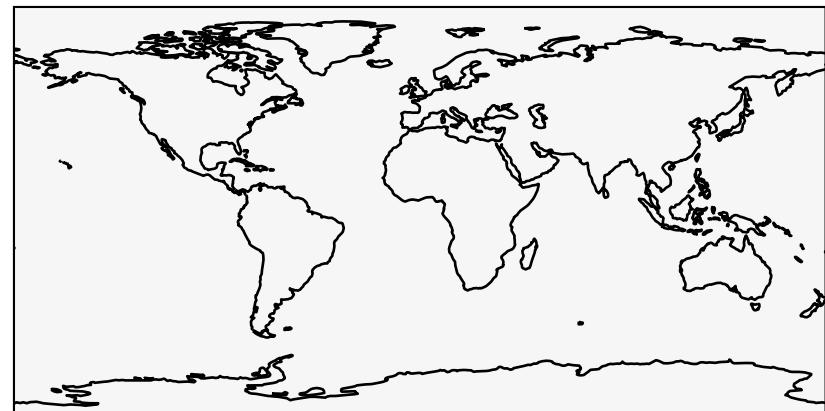


Difference  
Dev - Ref, Dynamic Range



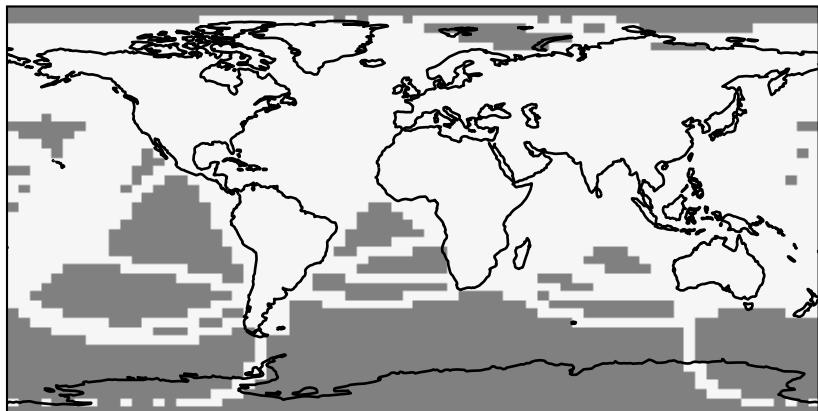
Zero throughout domain  
kg/m2/s

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

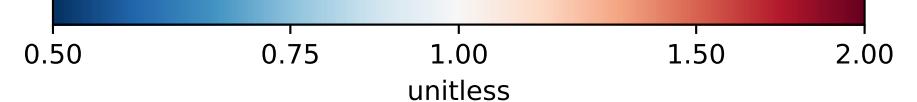
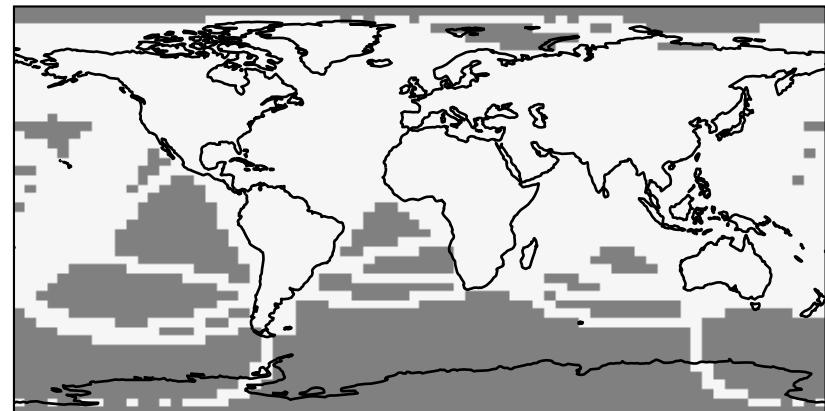


Zero throughout domain  
kg/m2/s

Ratio  
Dev/Ref, Dynamic Range

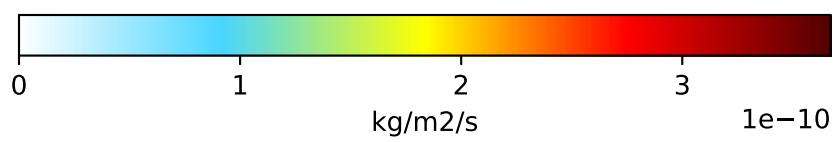
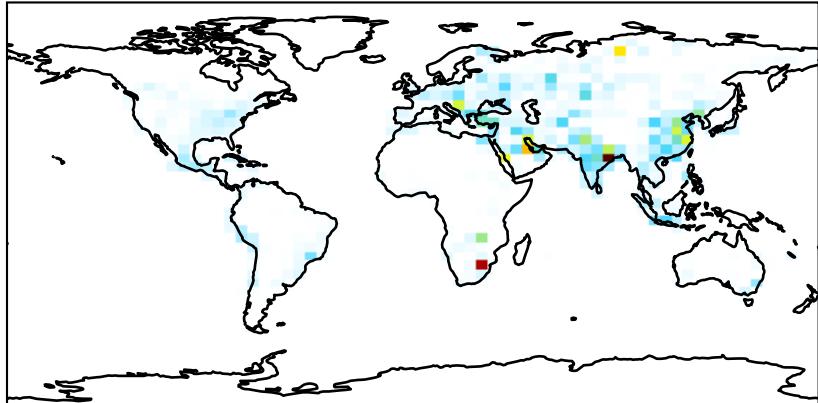


Ratio  
Dev/Ref, Fixed Range

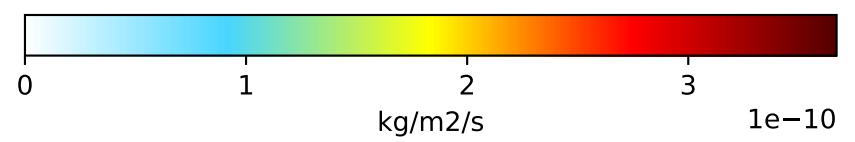
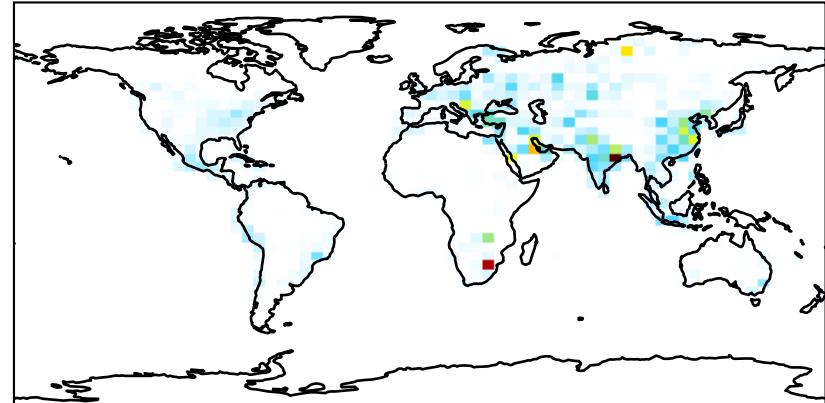


# EmisSO2\_Anthro (Oct2019)

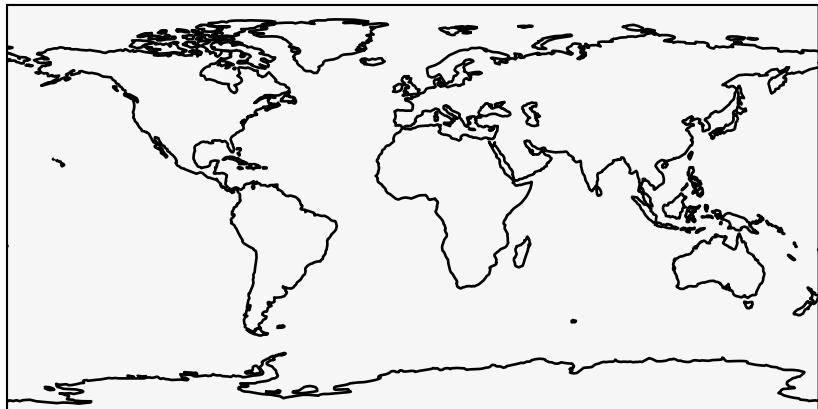
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



GCC\_13.0.0 (Dev)  
4.0x5.0

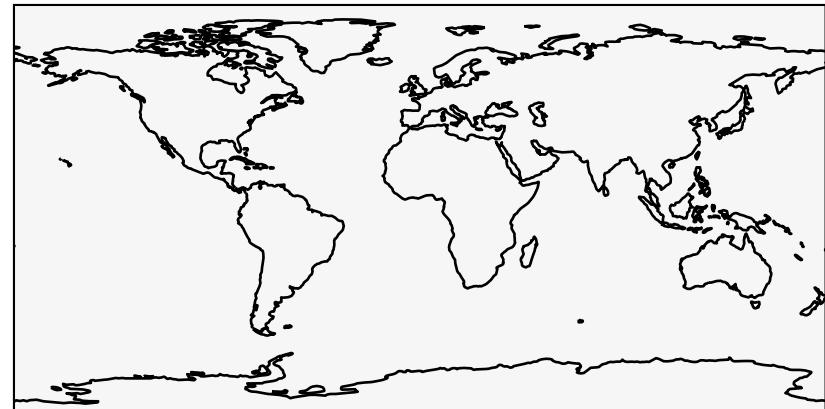


Difference  
Dev - Ref, Dynamic Range



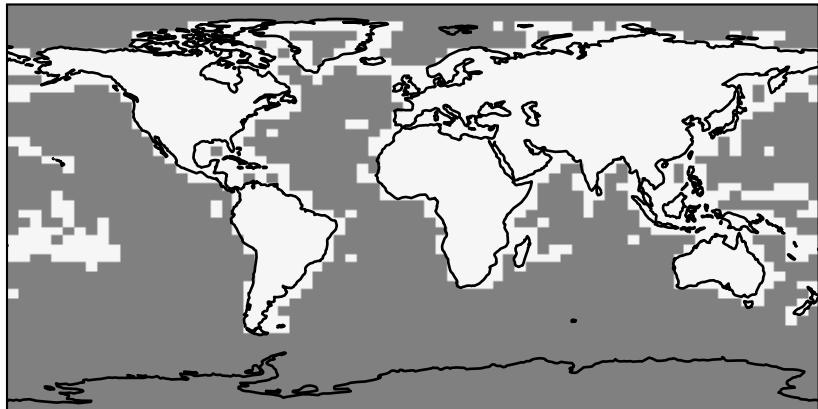
Zero throughout domain  
kg/m<sup>2</sup>/s

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

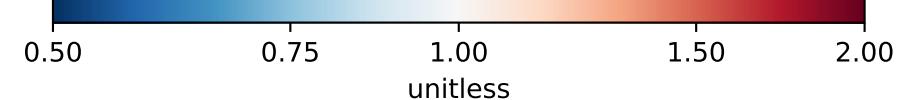
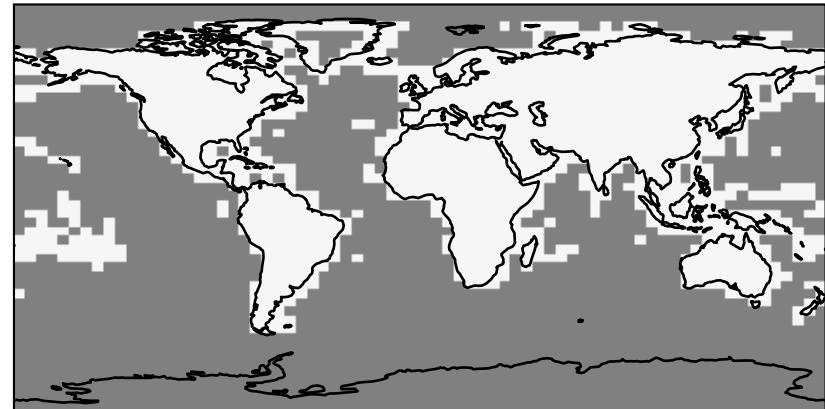


Zero throughout domain  
kg/m<sup>2</sup>/s

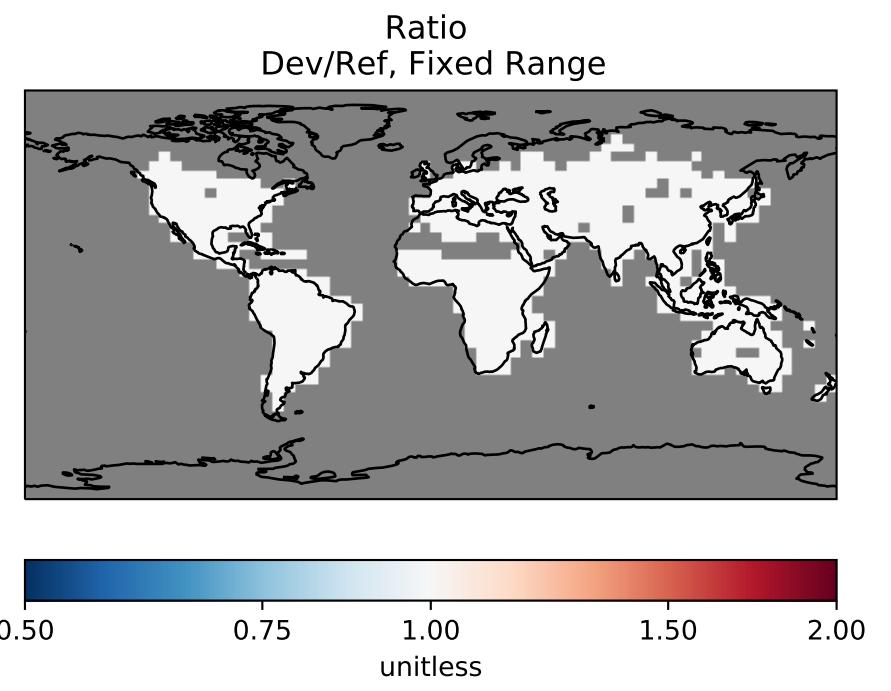
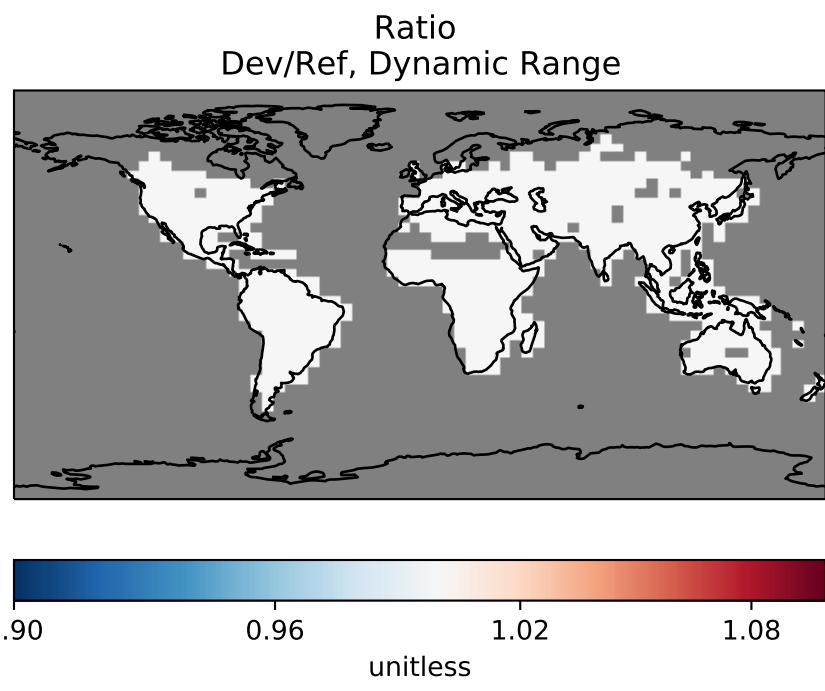
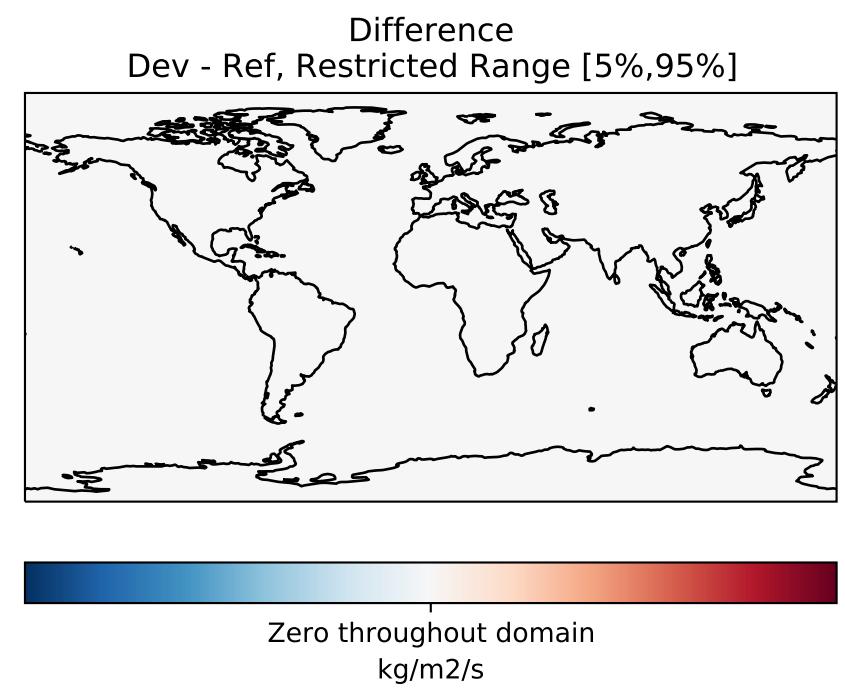
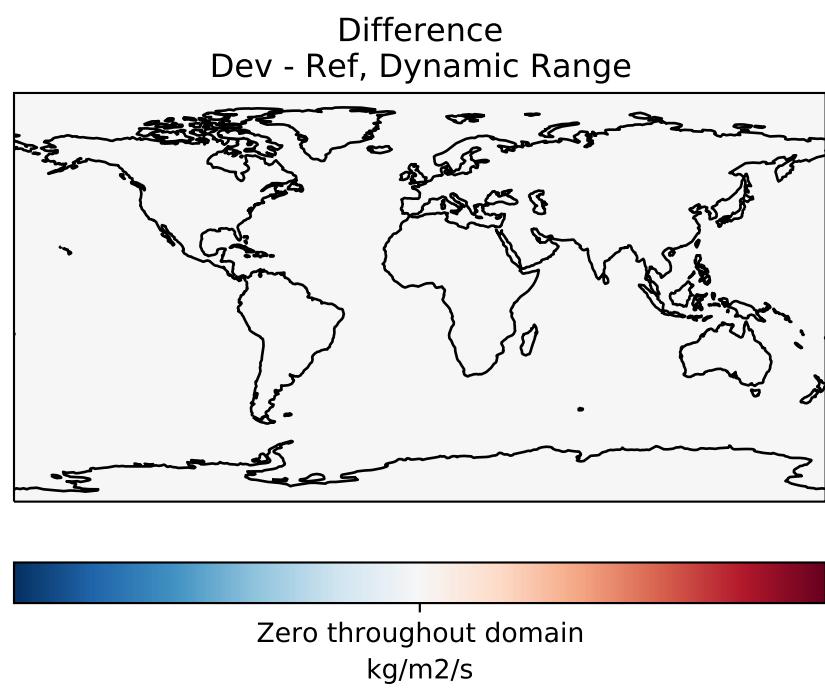
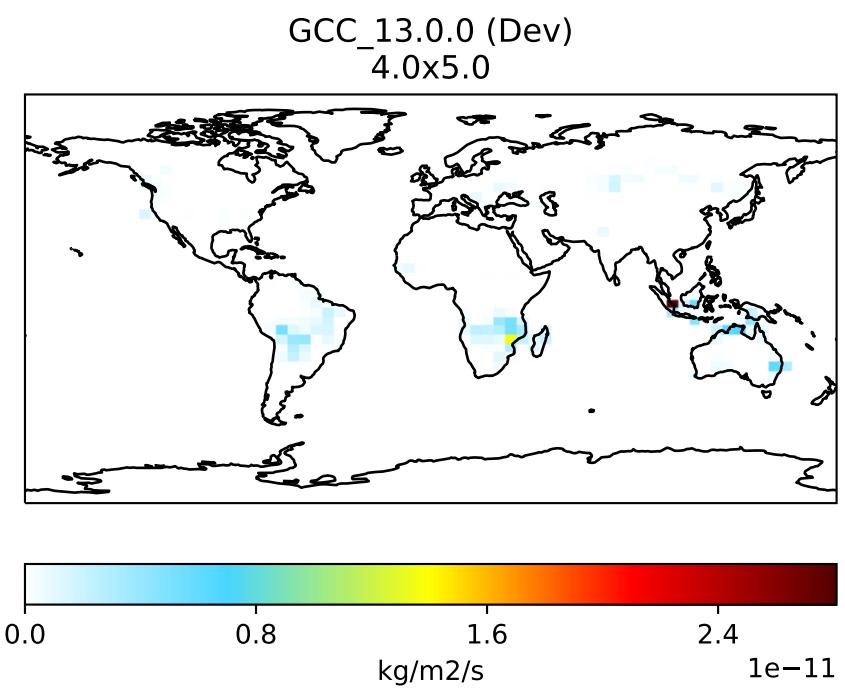
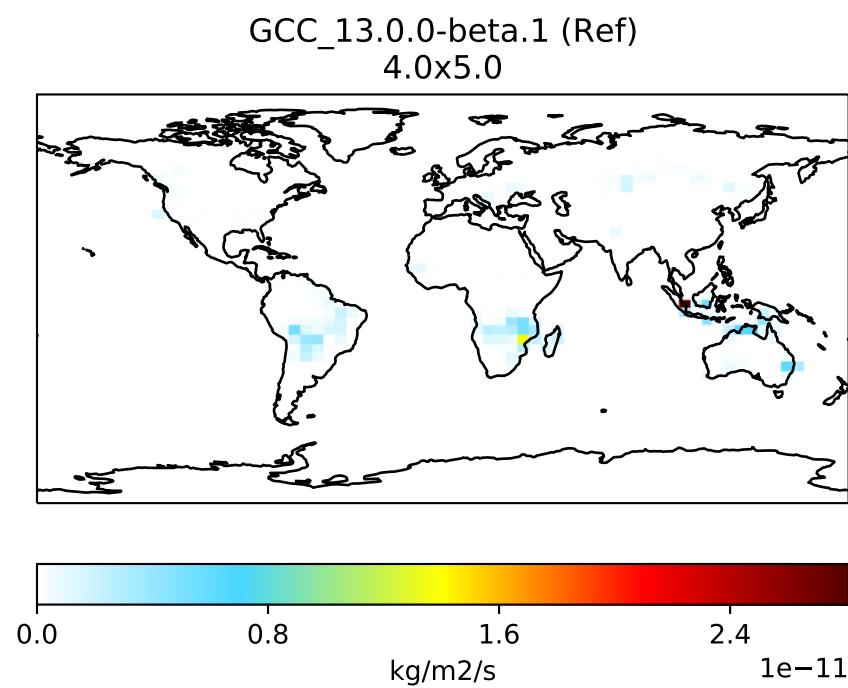
Ratio  
Dev/Ref, Dynamic Range



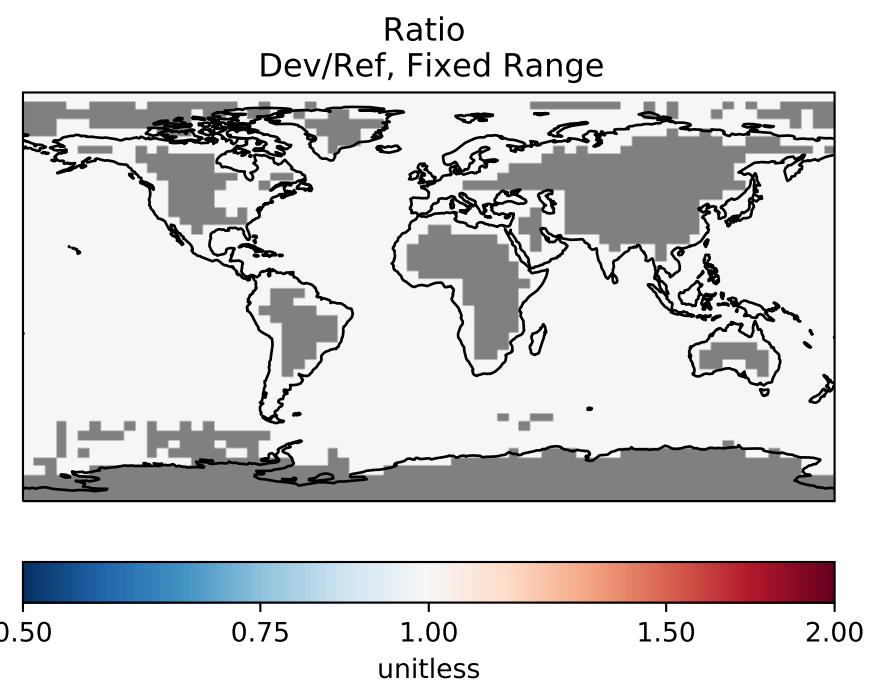
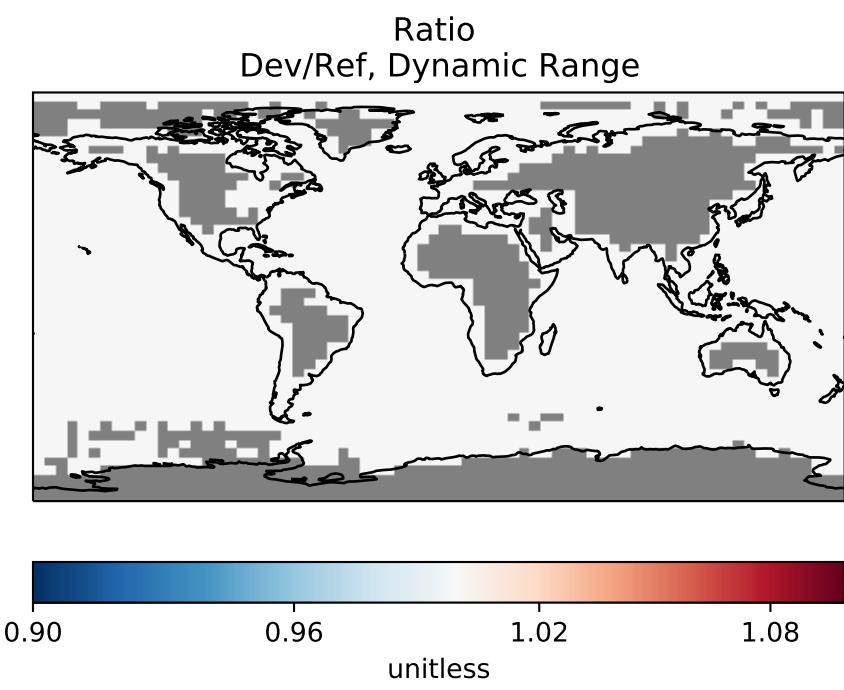
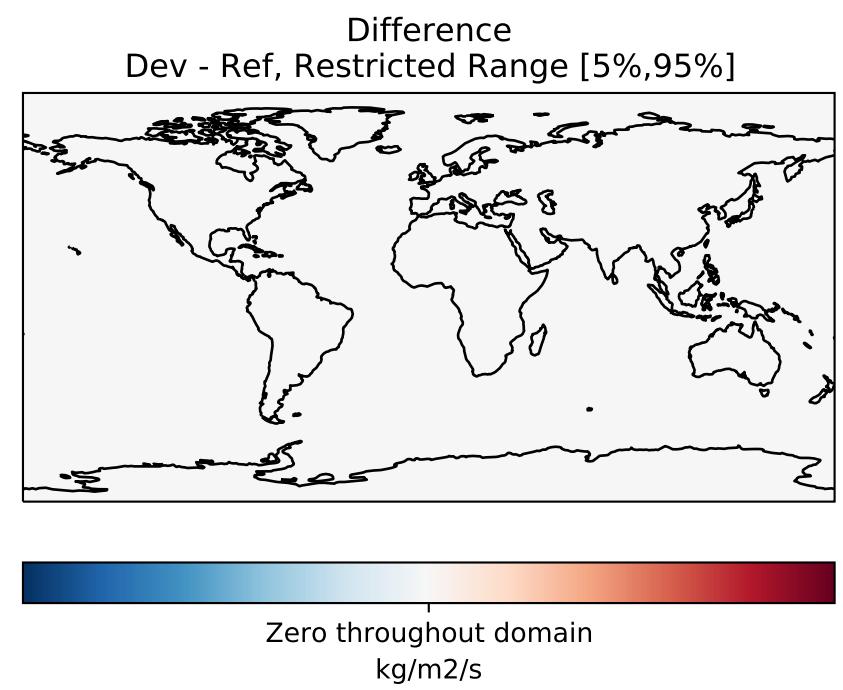
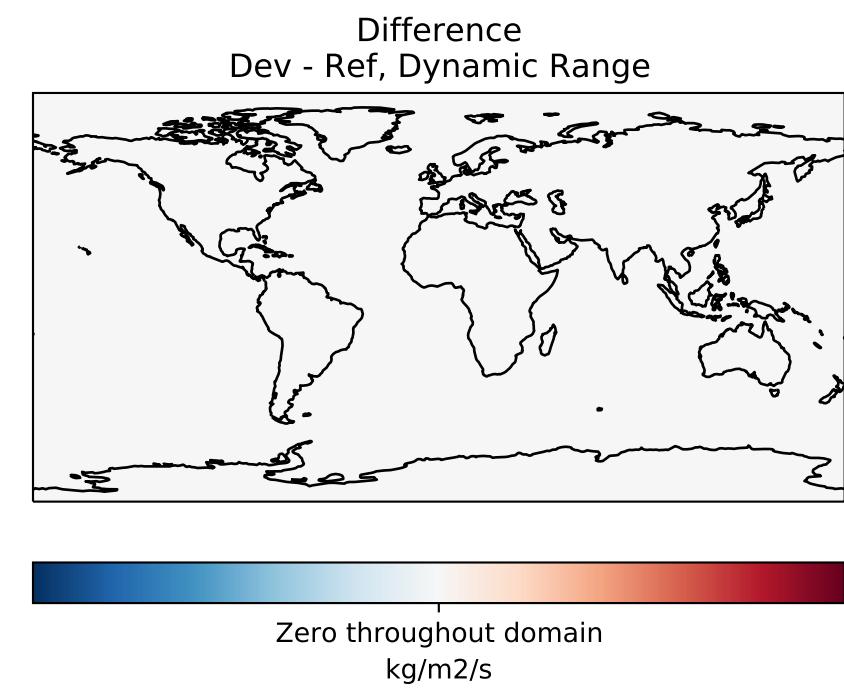
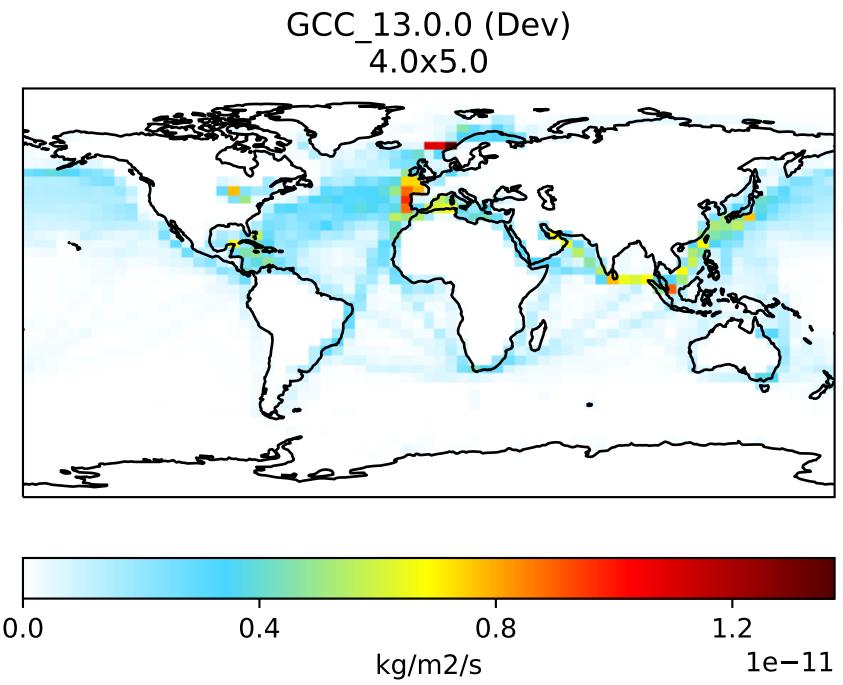
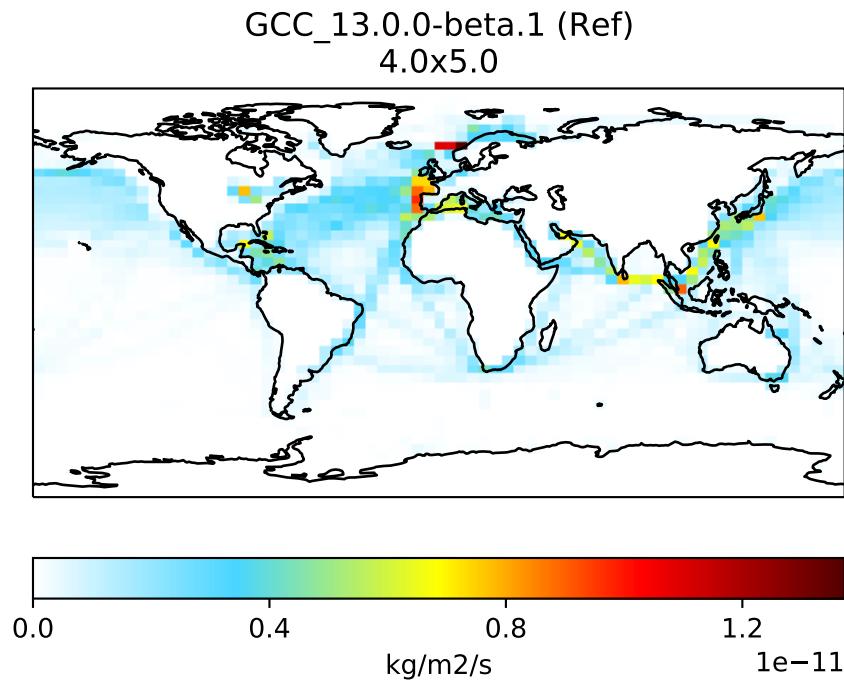
Ratio  
Dev/Ref, Fixed Range



# EmisSO2\_BioBurn (Oct2019)

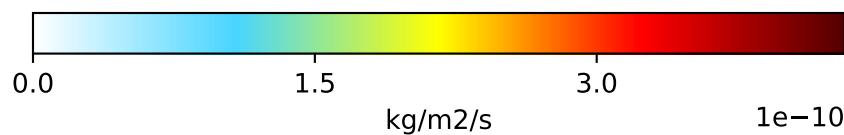
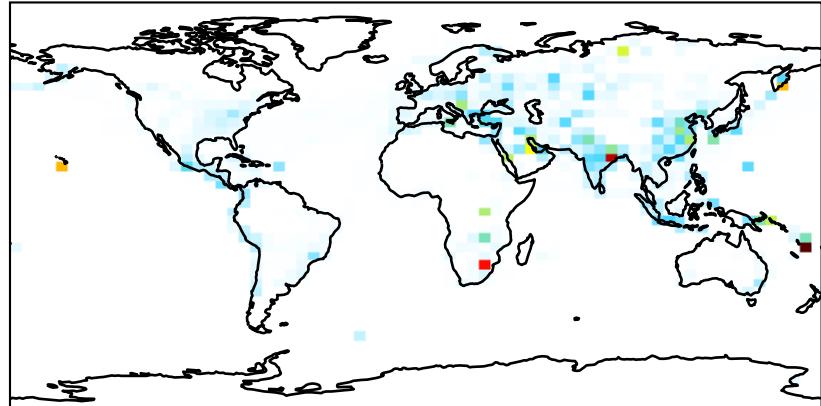


# EmisSO2\_Ship (Oct2019)

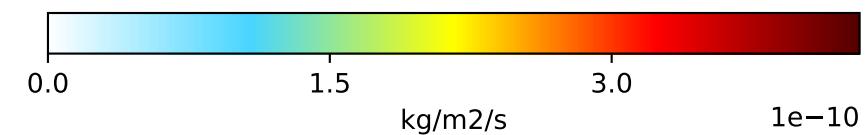
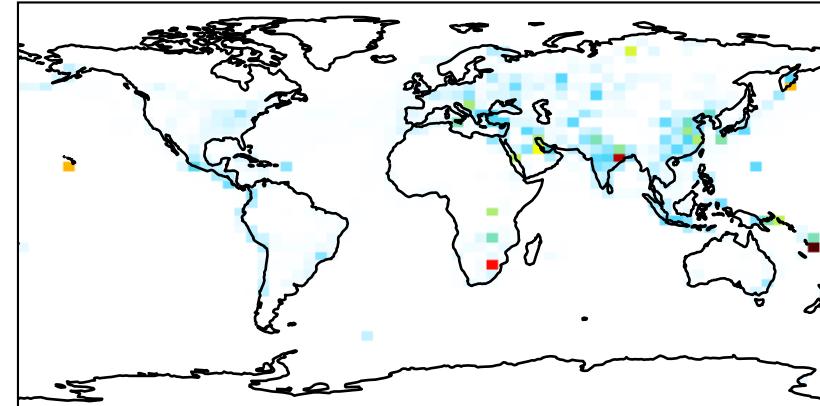


# EmisSO2\_Total (Oct2019)

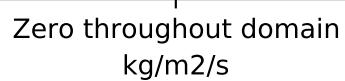
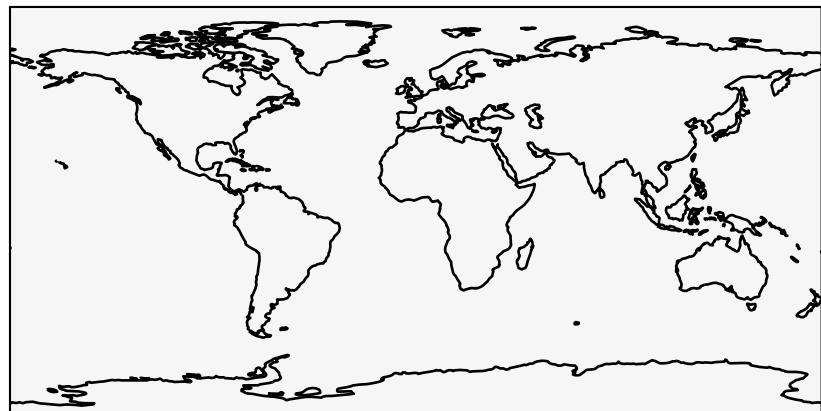
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



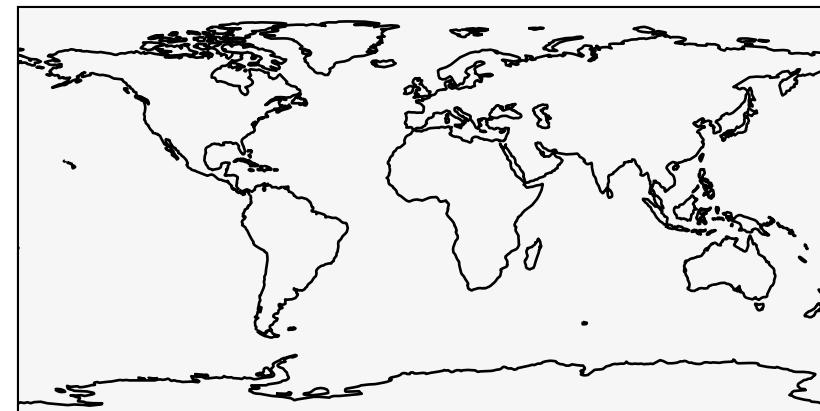
GCC\_13.0.0 (Dev)  
4.0x5.0



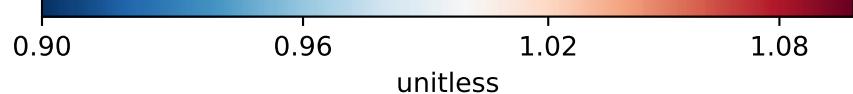
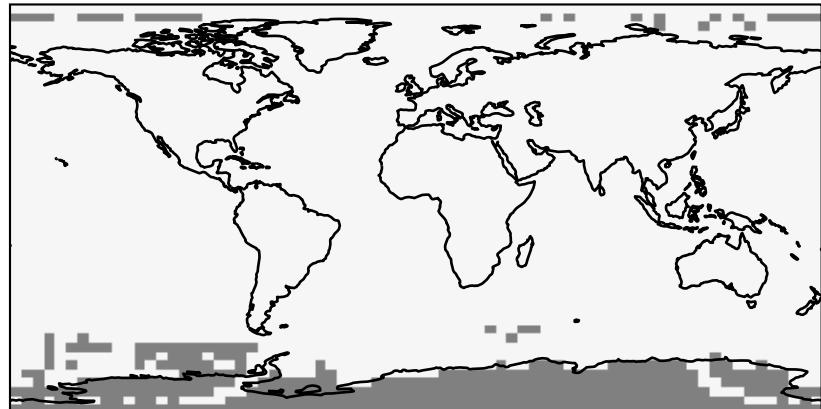
Difference  
Dev - Ref, Dynamic Range



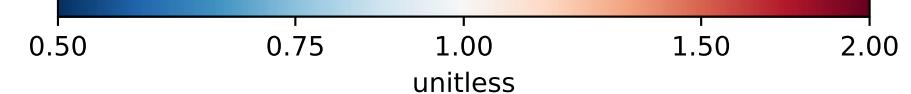
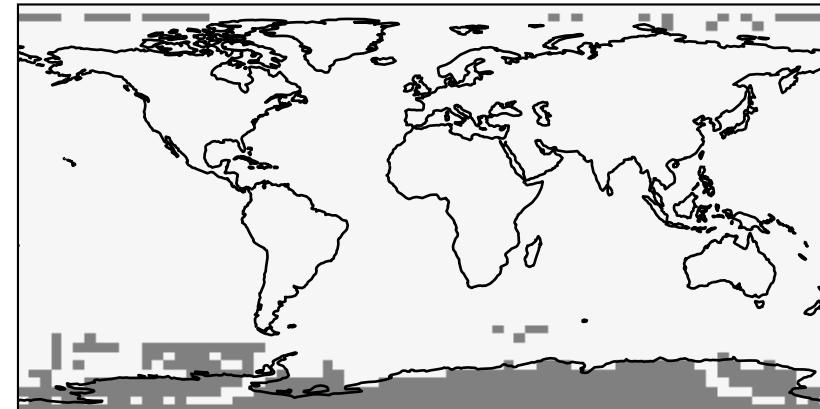
Difference  
Dev - Ref, Restricted Range [5%,95%]



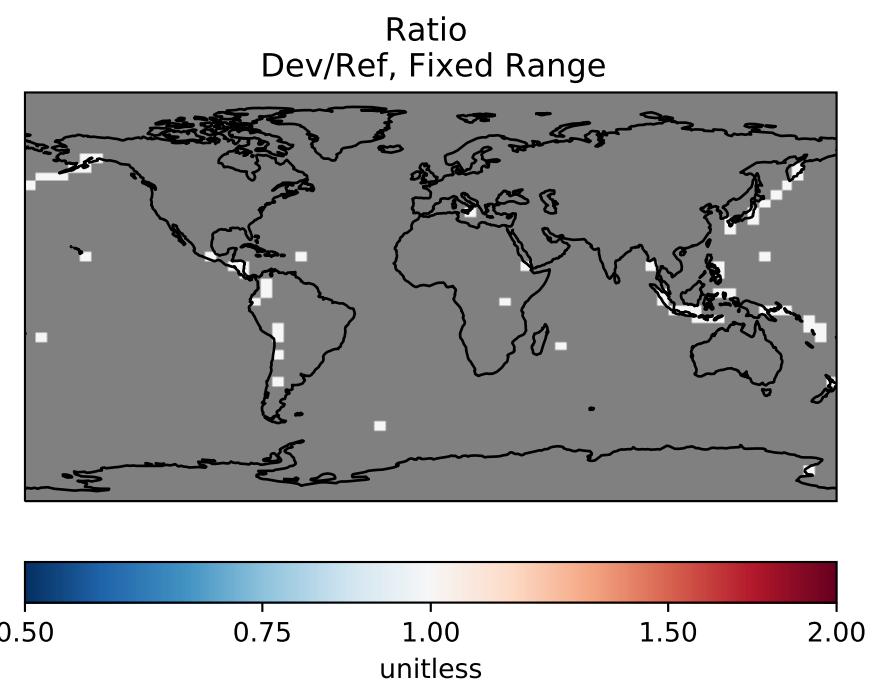
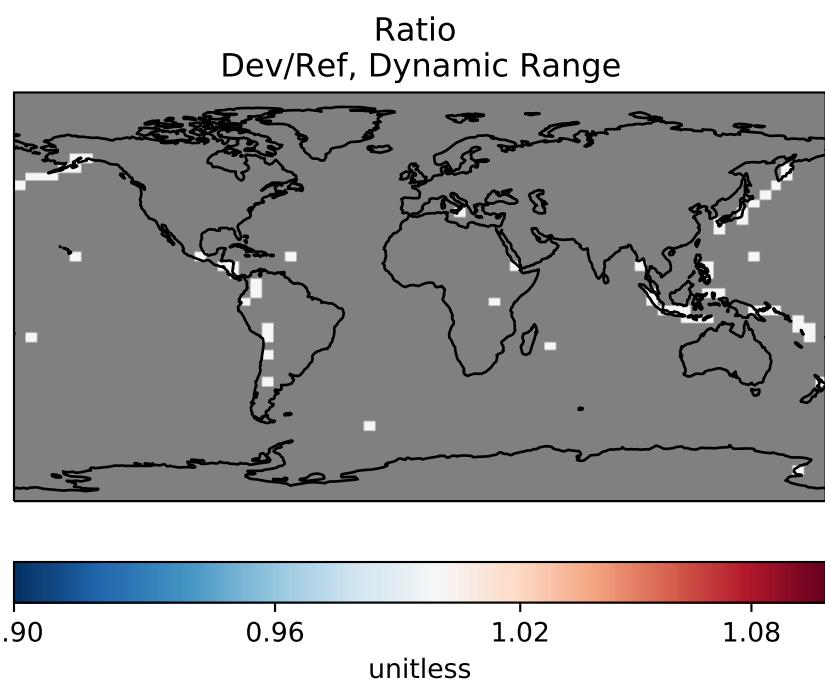
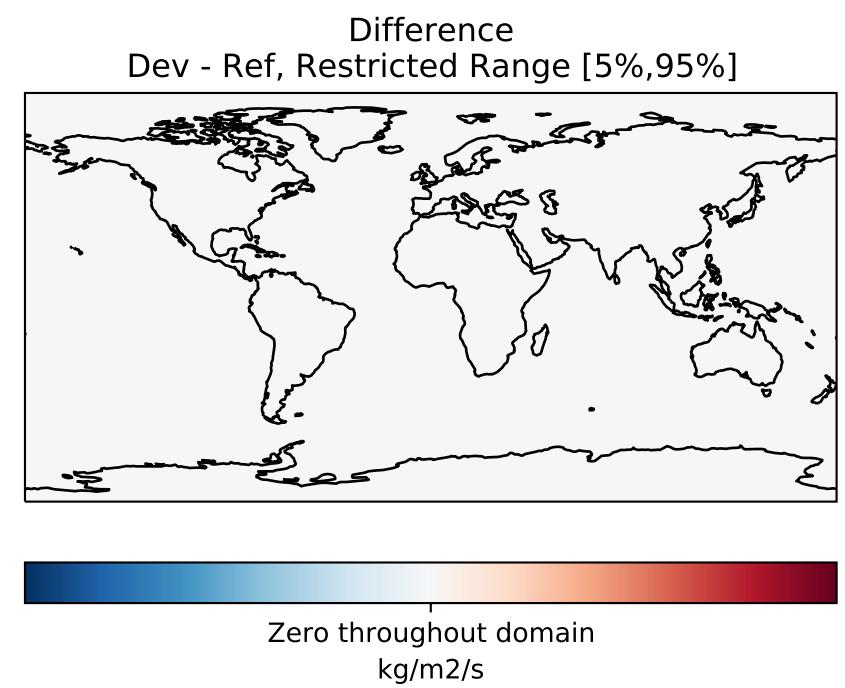
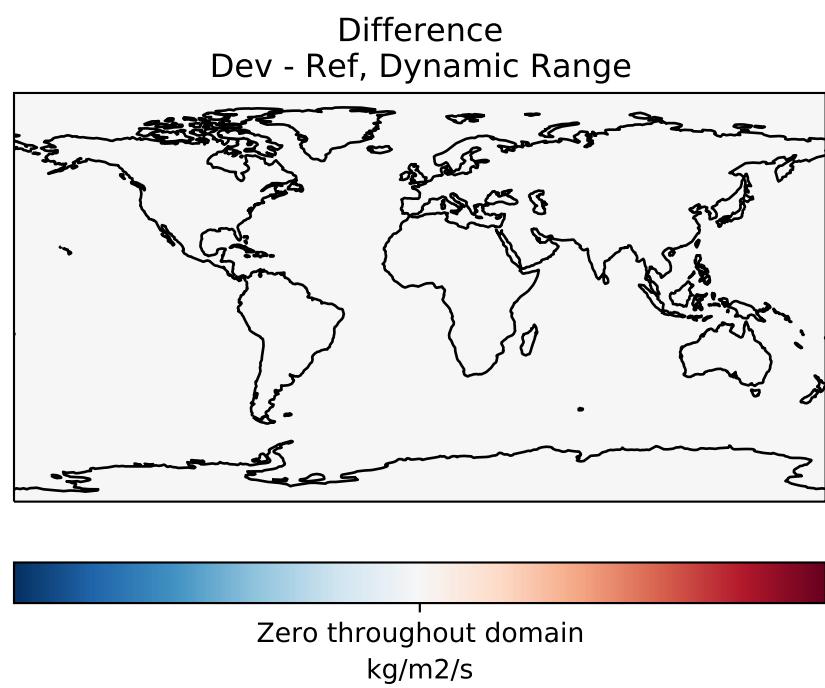
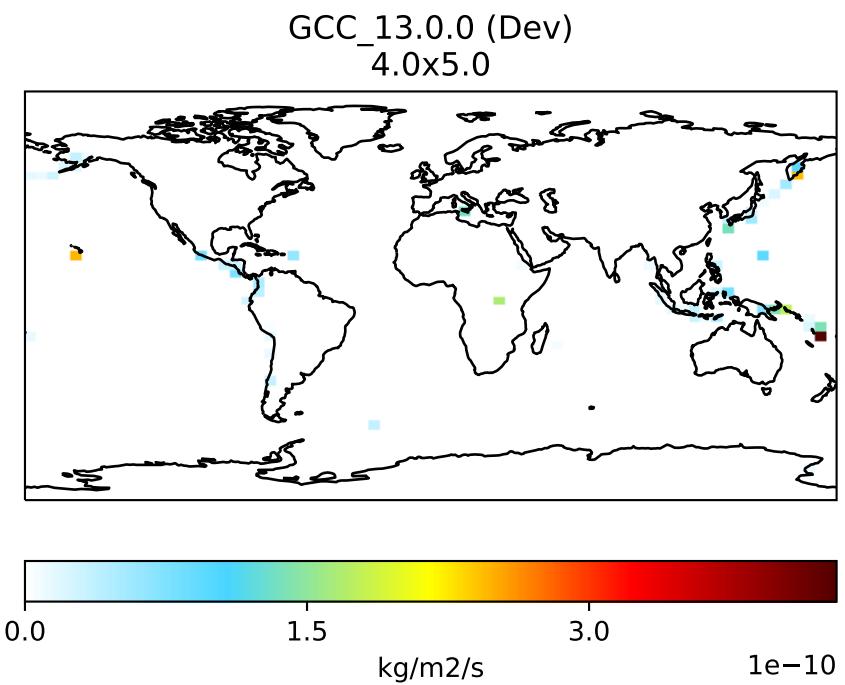
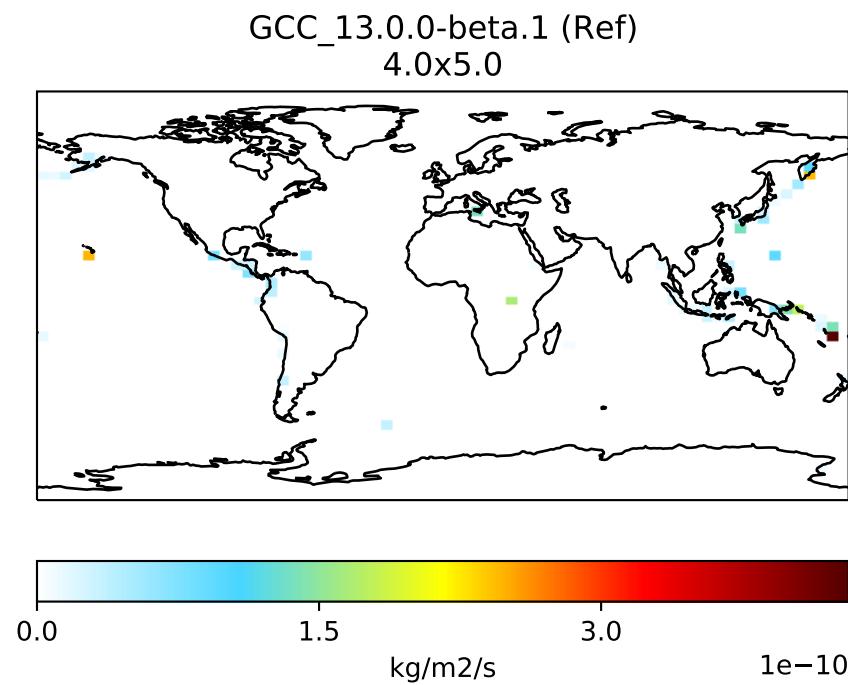
Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

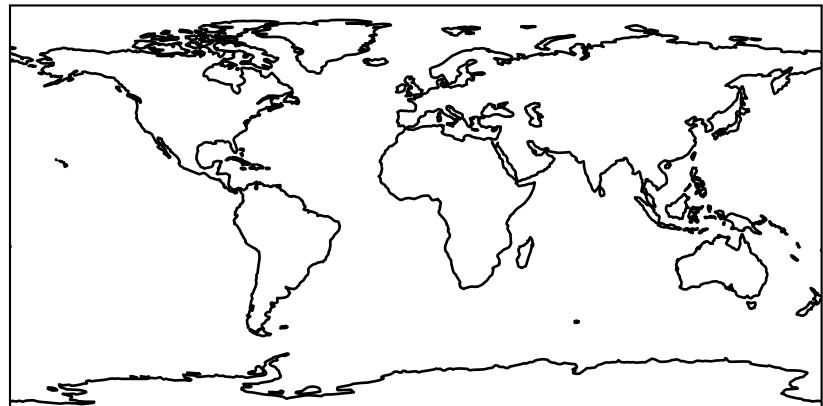


# EmisSO2\_VolcDegas (Oct2019)



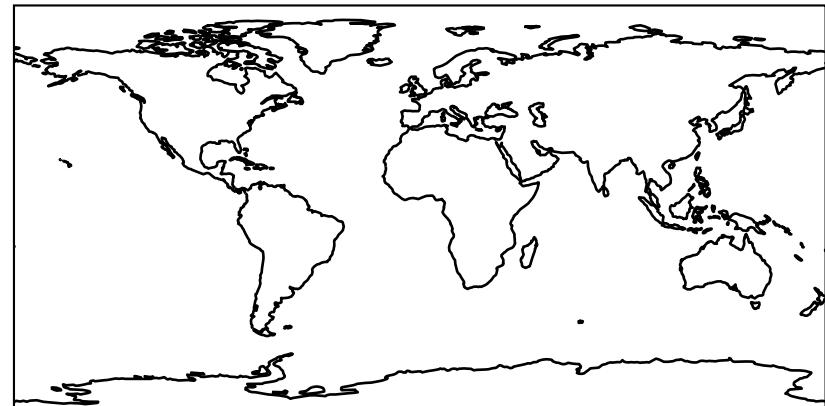
# EmisSO2\_VolcErupt (Oct2019)

GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



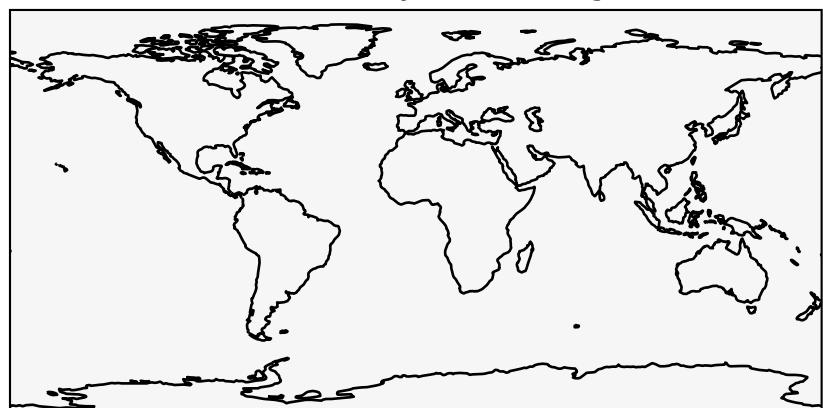
Zero throughout domain  
kg/m<sup>2</sup>/s

GCC\_13.0.0 (Dev)  
4.0x5.0



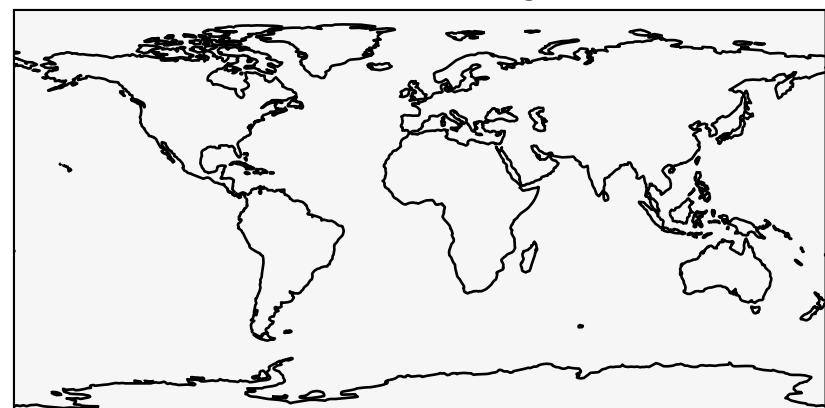
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



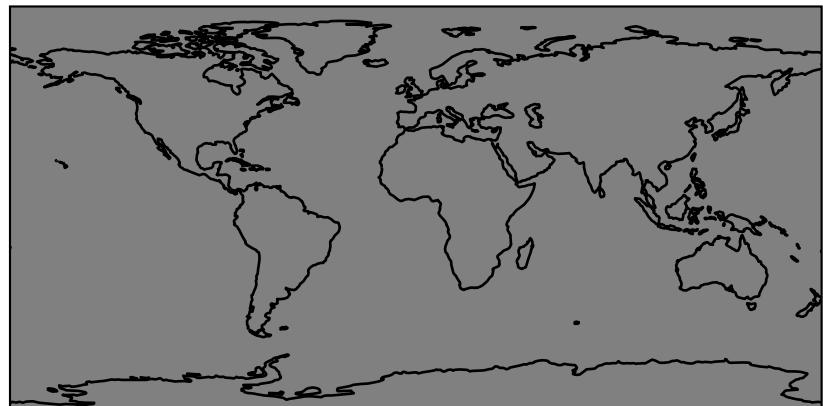
Zero throughout domain  
kg/m<sup>2</sup>/s

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



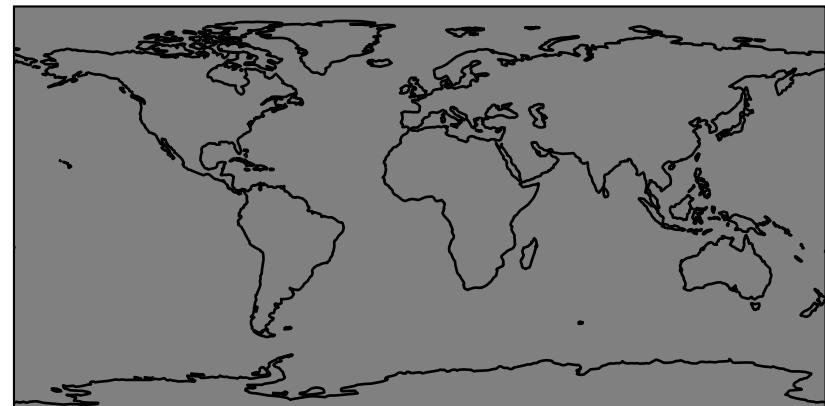
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



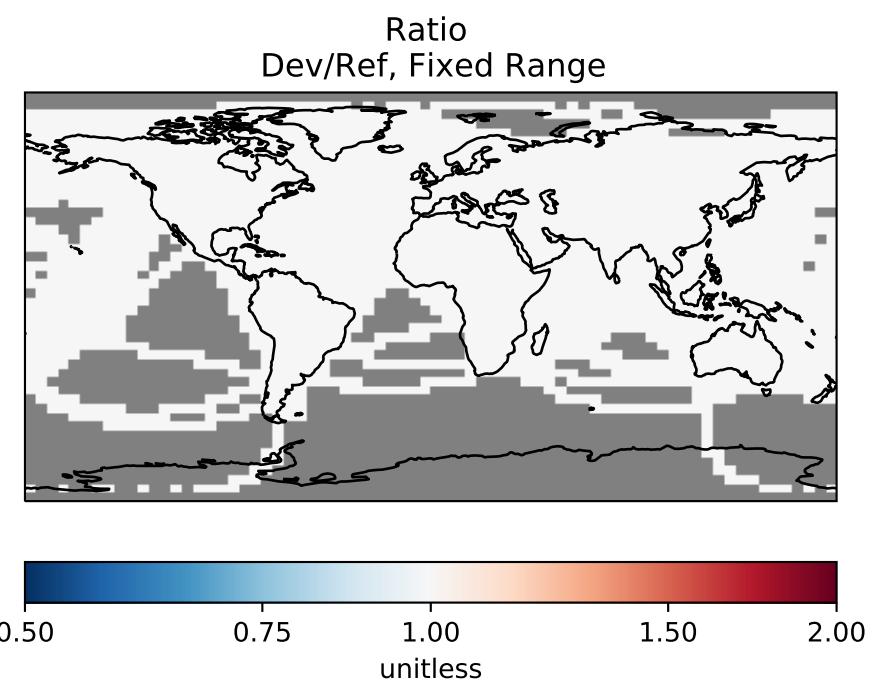
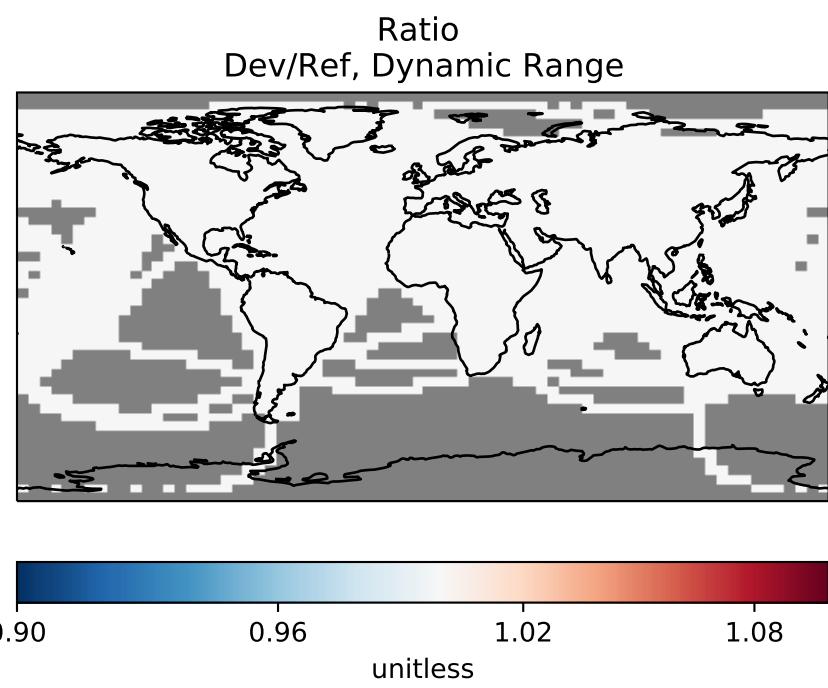
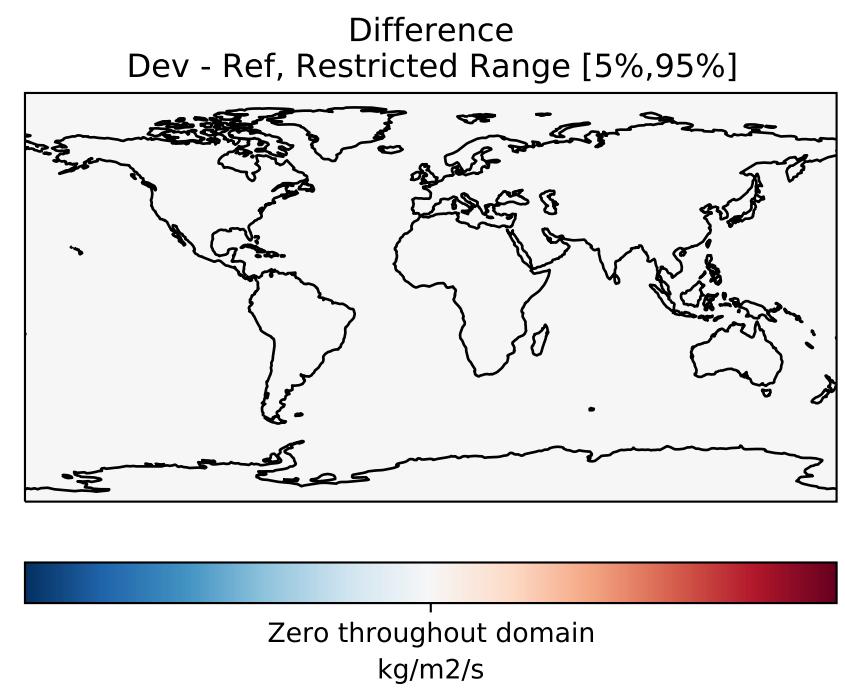
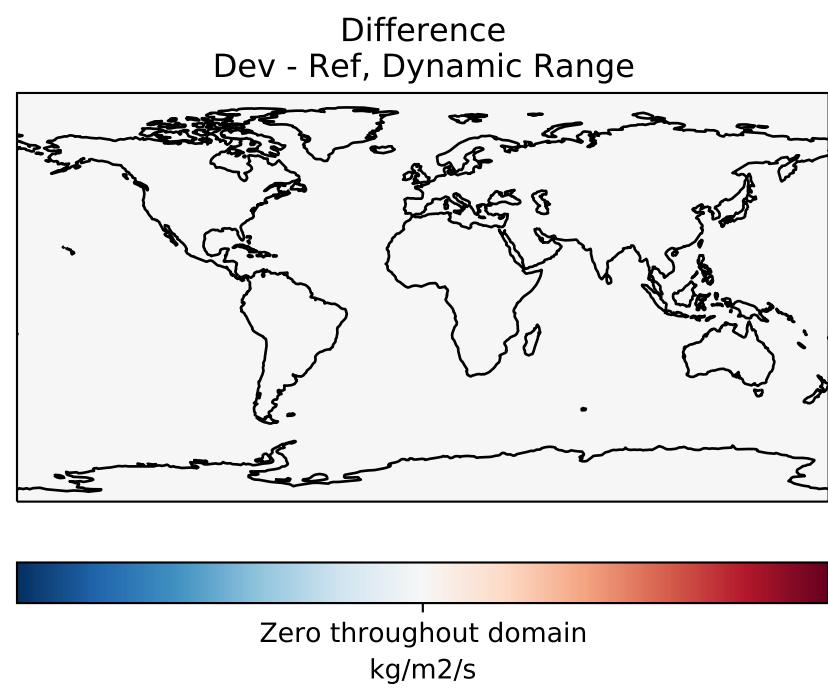
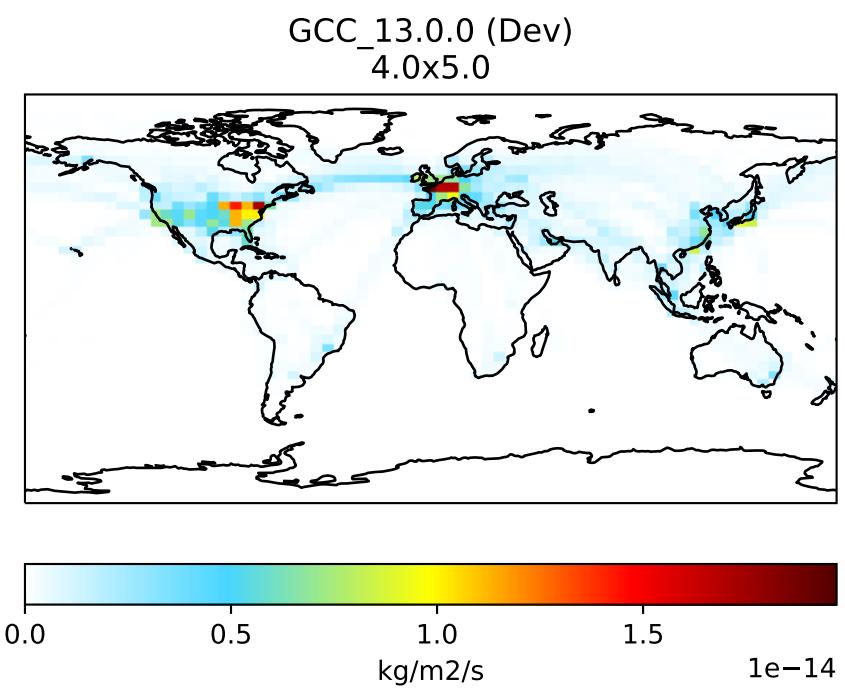
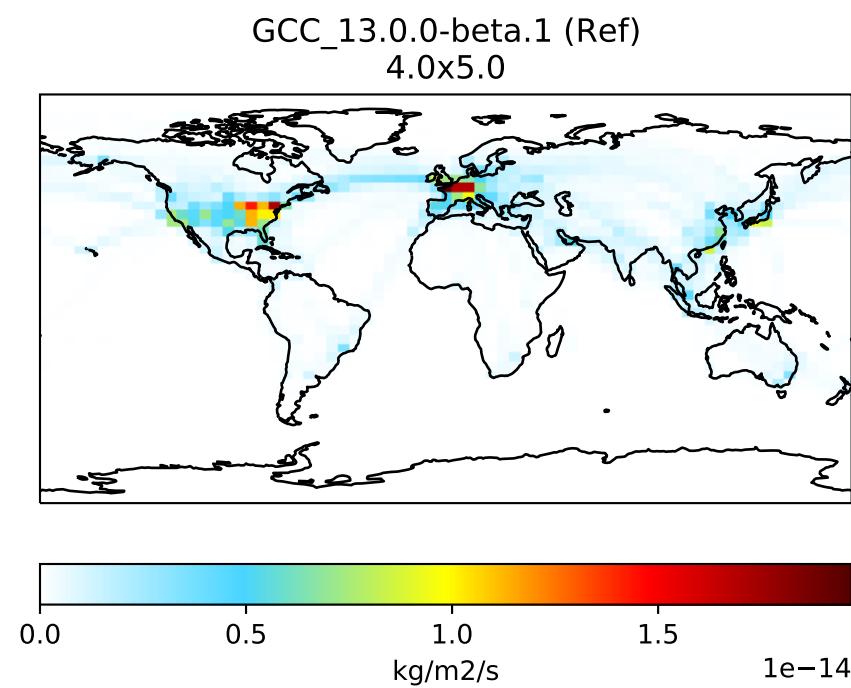
Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range



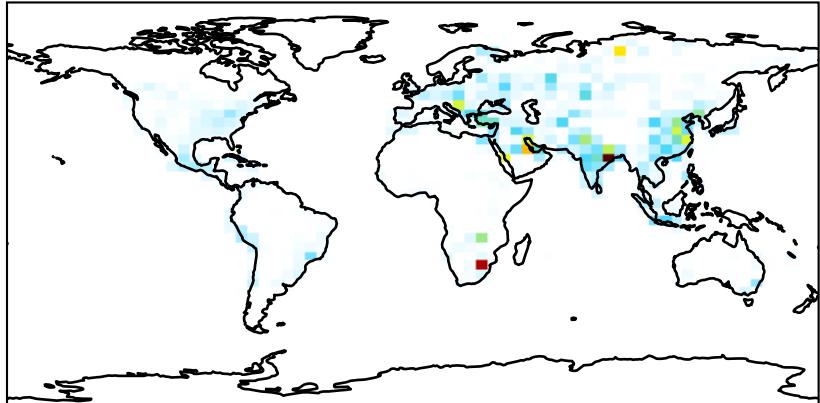
Undefined throughout domain  
unitless

# EmisSO4\_Aircraft (Oct2019)

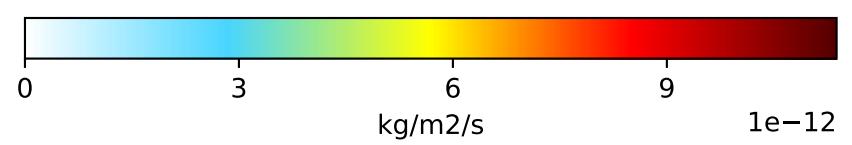
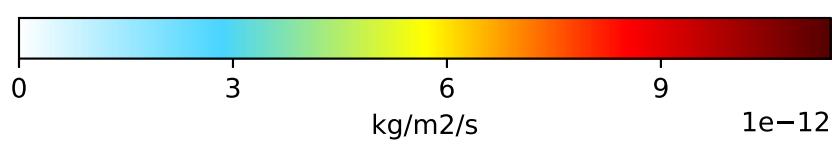
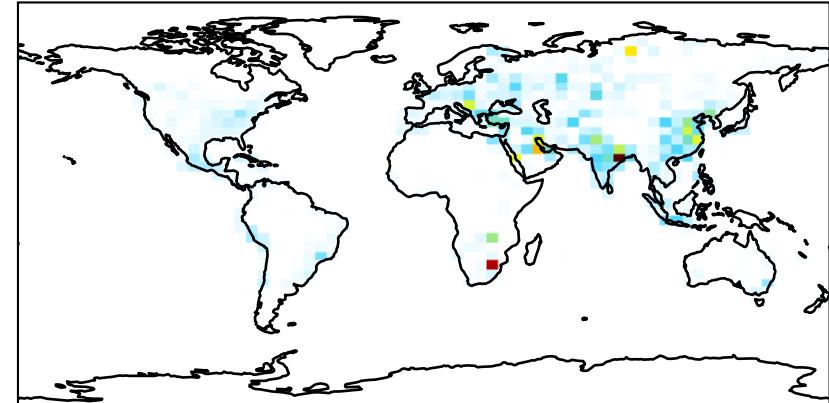


# EmisSO4\_Anthro (Oct2019)

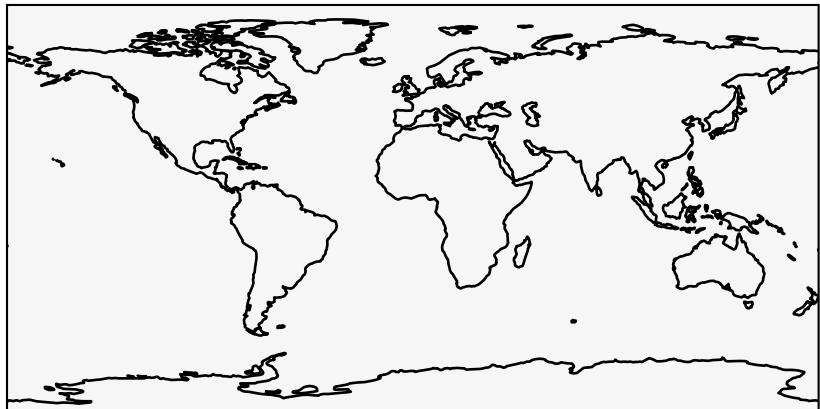
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



GCC\_13.0.0 (Dev)  
4.0x5.0

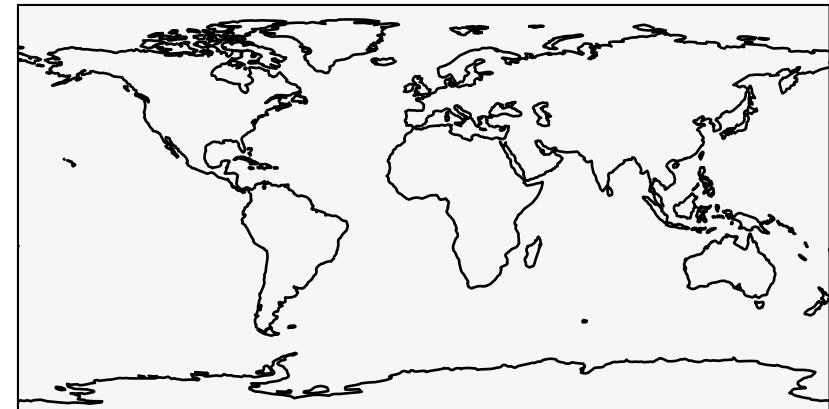


Difference  
Dev - Ref, Dynamic Range



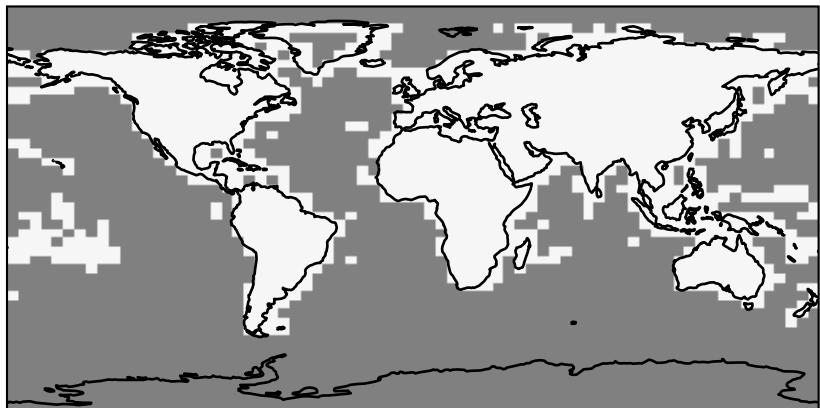
Zero throughout domain  
kg/m<sup>2</sup>/s

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



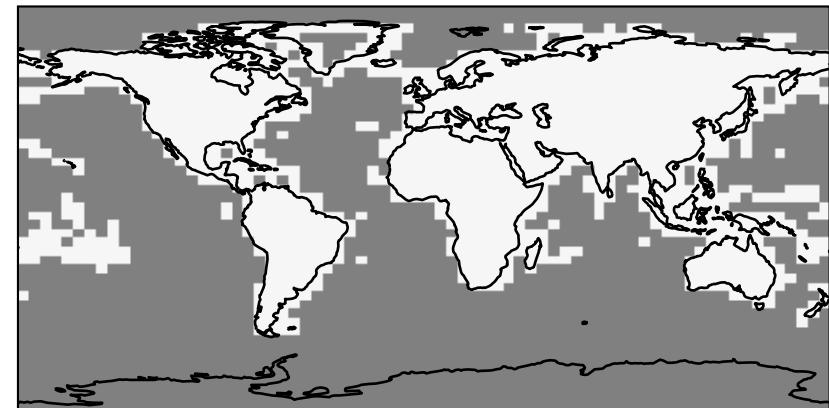
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



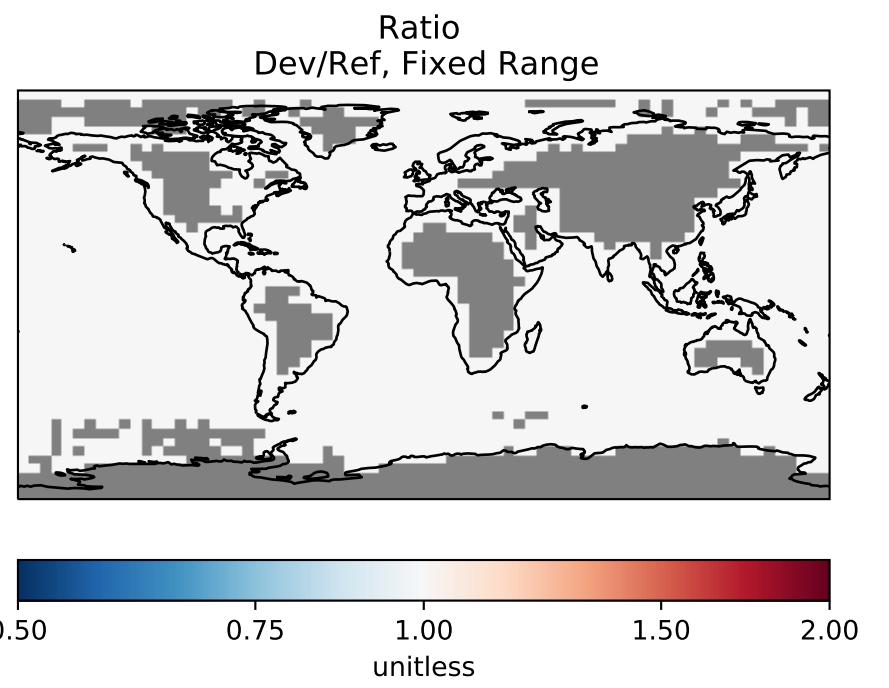
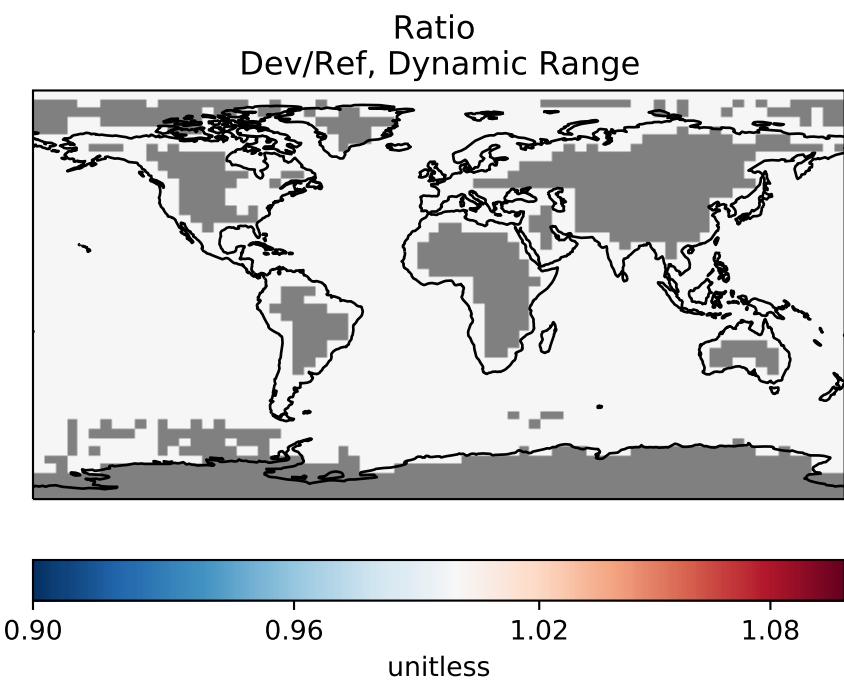
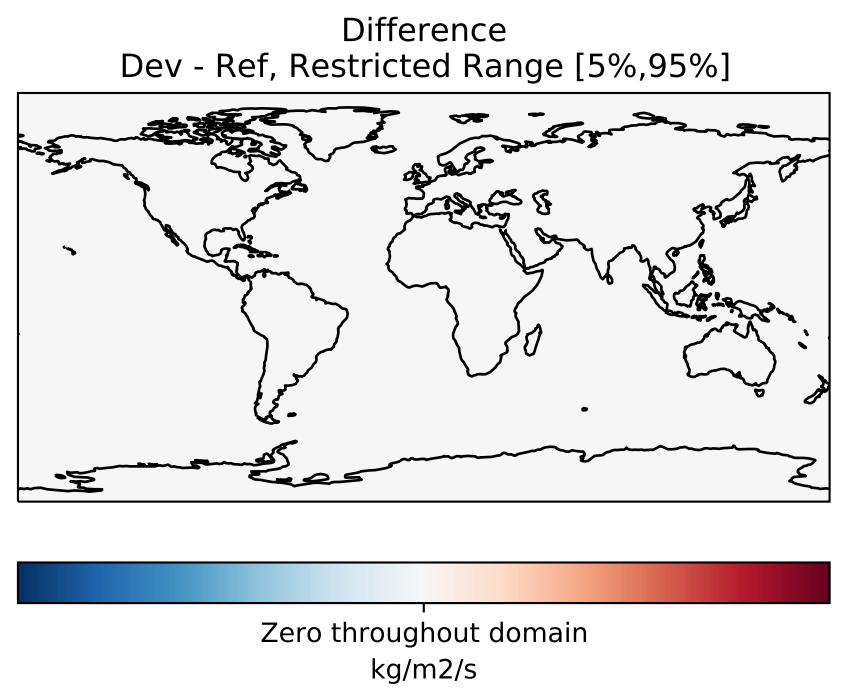
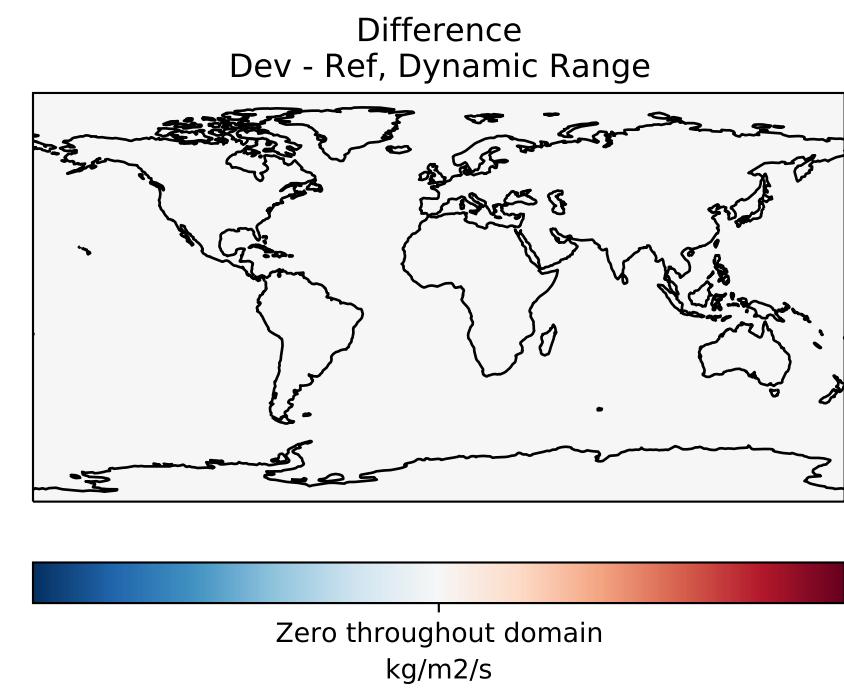
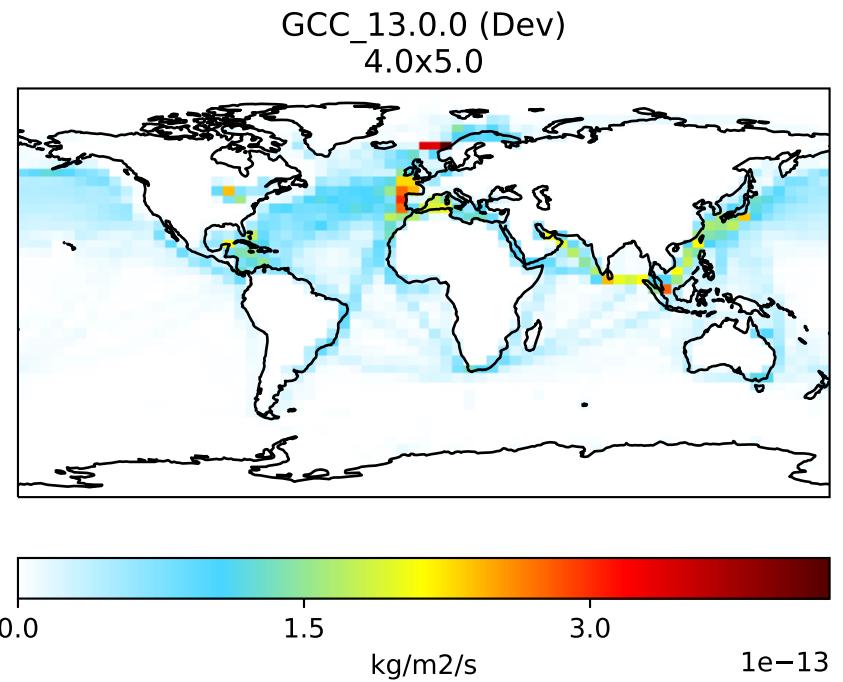
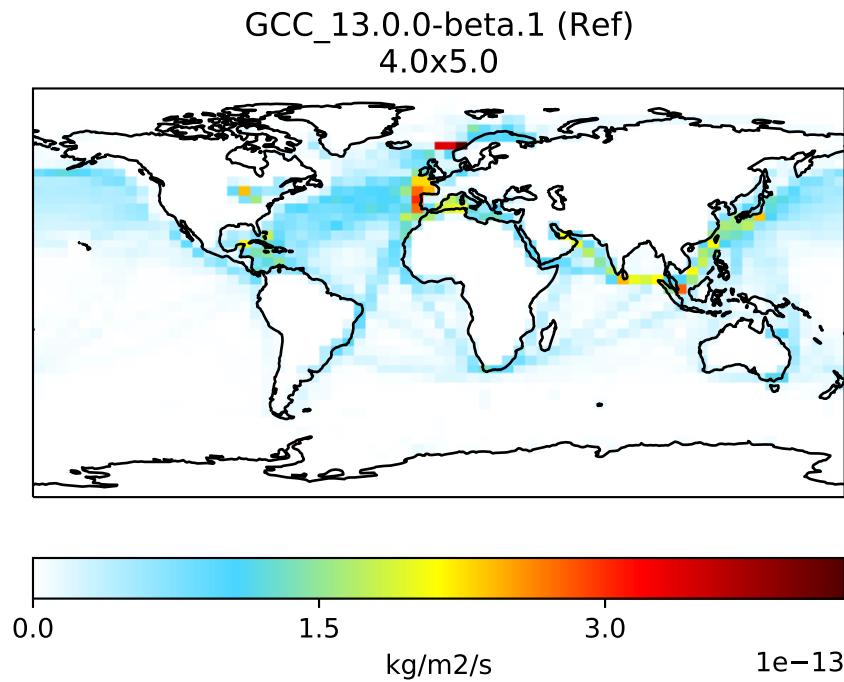
0.90      0.96      1.02      1.08  
unitless

Ratio  
Dev/Ref, Fixed Range



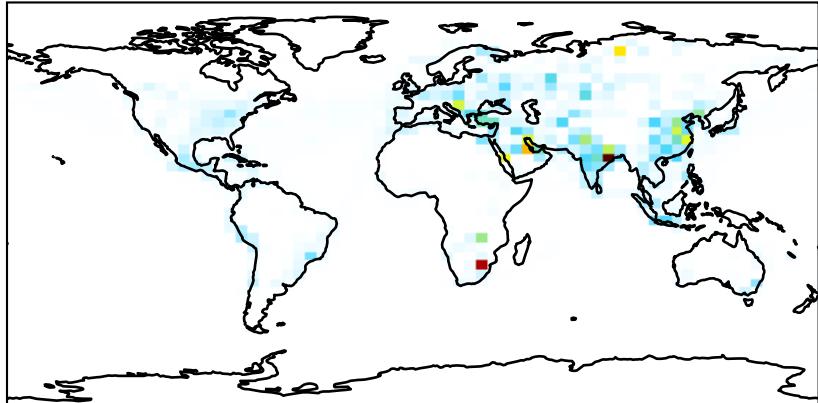
0.50      0.75      1.00      1.50      2.00  
unitless

# EmisSO4\_Ship (Oct2019)

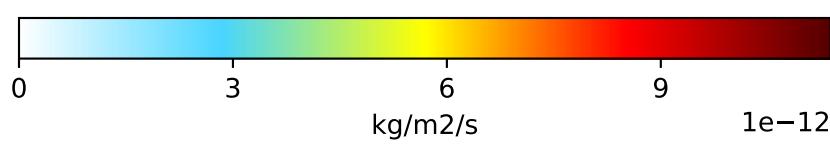
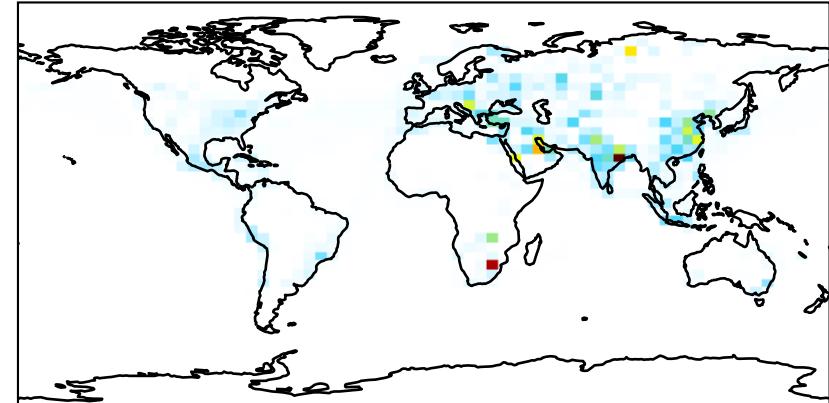


# EmisSO4\_Total (Oct2019)

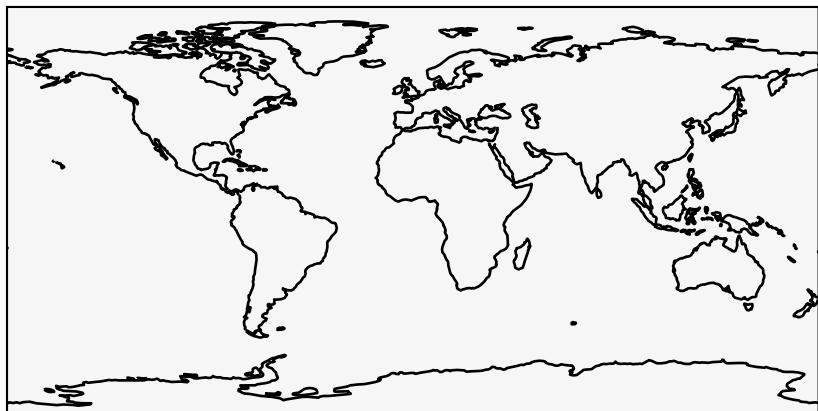
GCC\_13.0.0-beta.1 (Ref)  
4.0x5.0



GCC\_13.0.0 (Dev)  
4.0x5.0

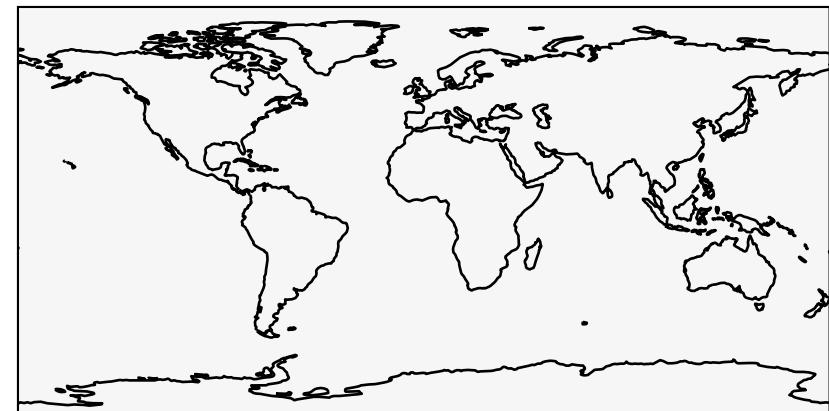


Difference  
Dev - Ref, Dynamic Range



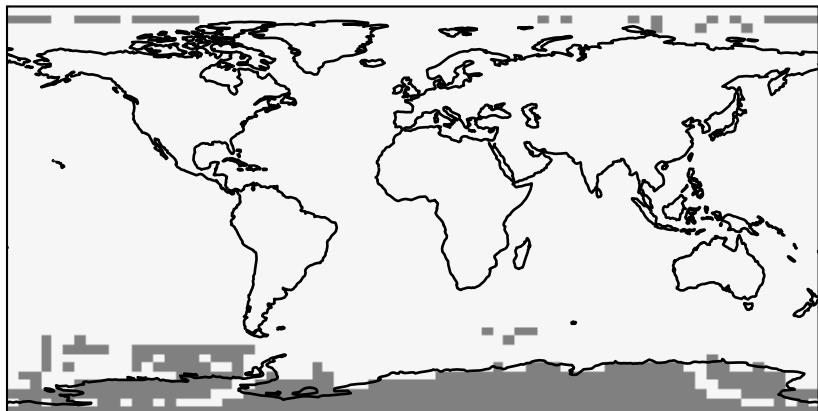
Zero throughout domain  
kg/m<sup>2</sup>/s

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



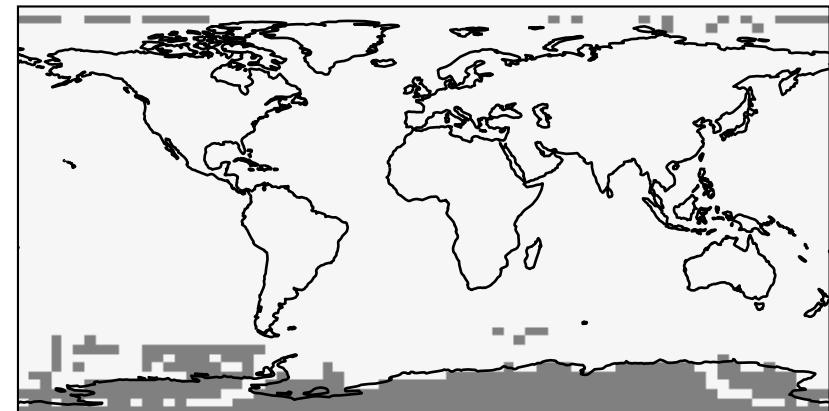
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08  
unitless

Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless