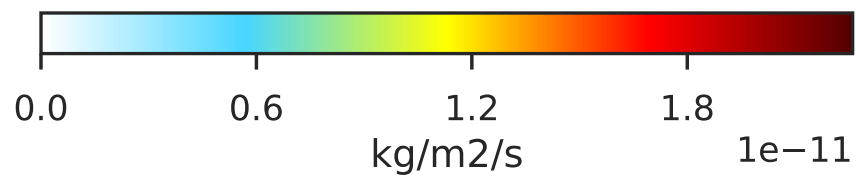
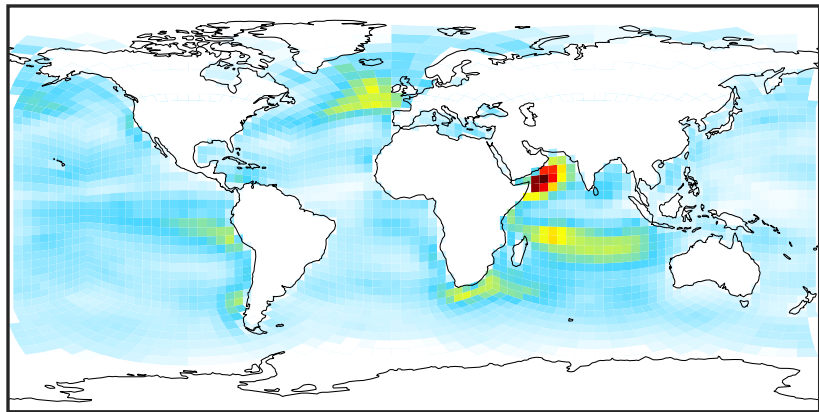
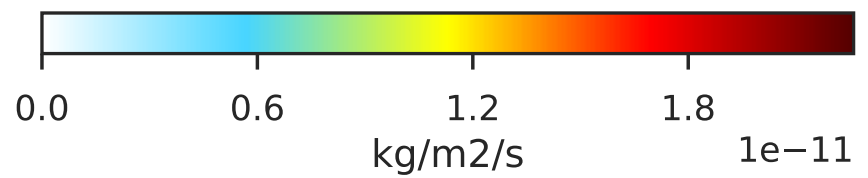
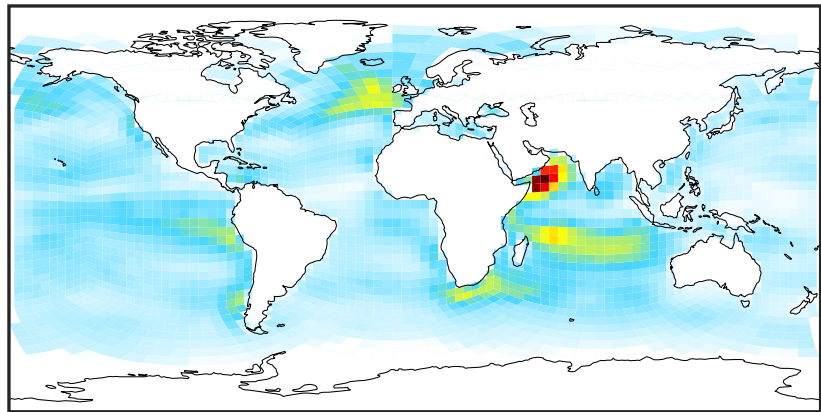


# EmisDMS\_Ocean (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24

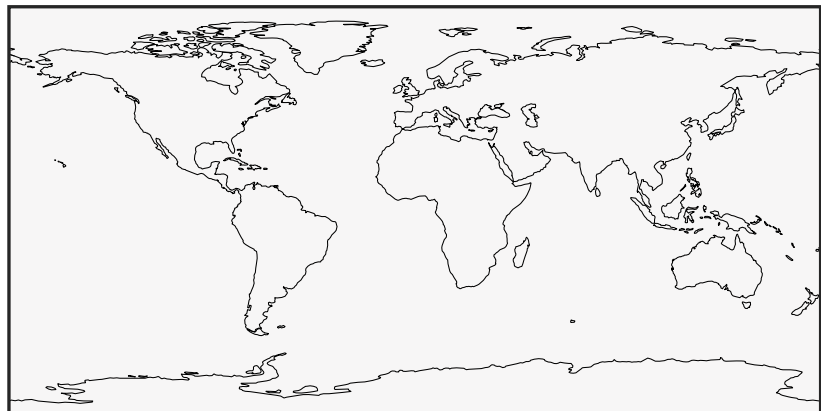


Difference (1x1.25)  
Dev - Ref, Dynamic Range



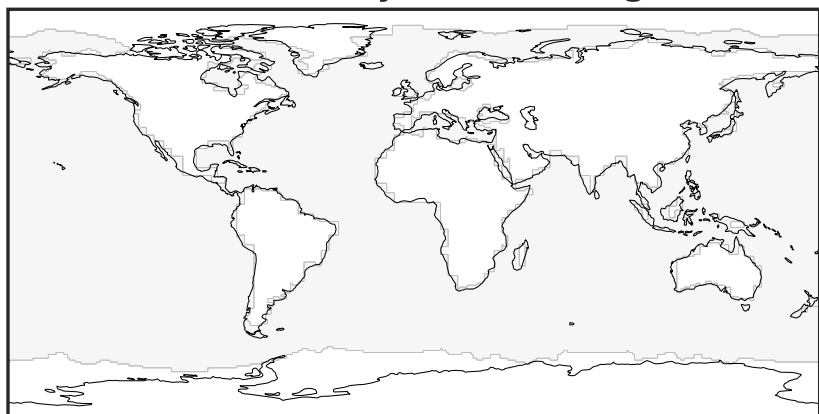
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



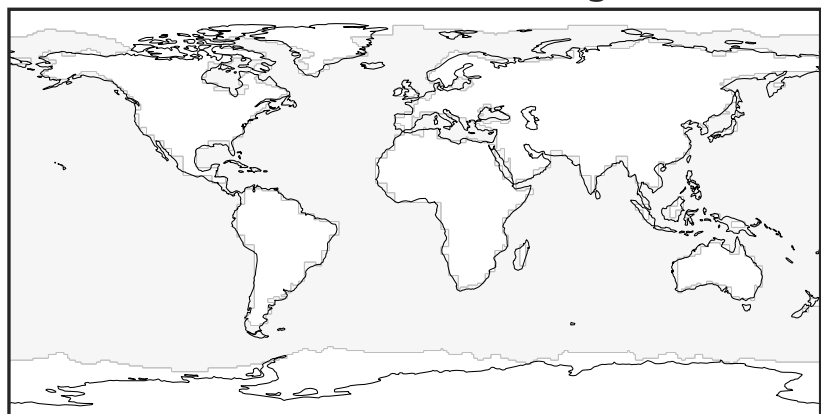
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

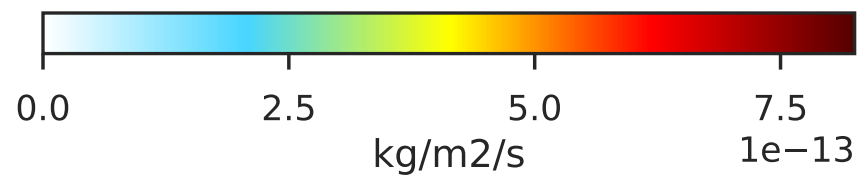
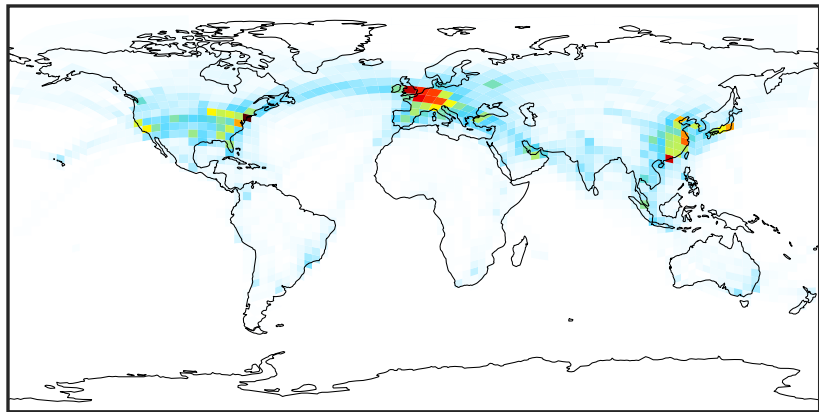
Ratio (1x1.25)  
Dev/Ref, Fixed Range



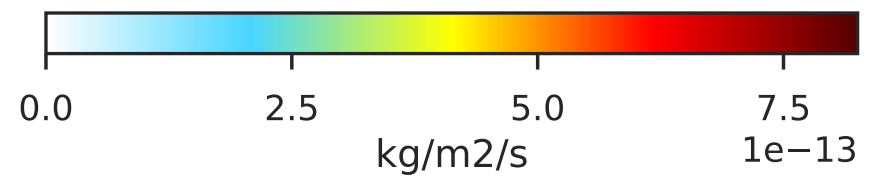
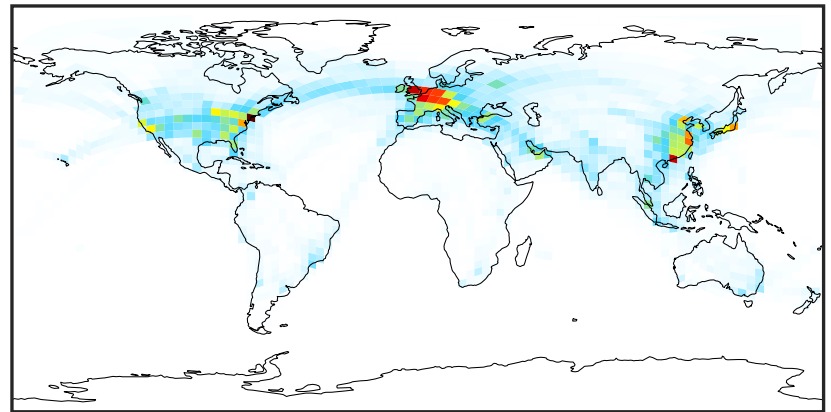
Ref and Dev equal throughout domain  
unitless

# EmisSO2\_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



Difference (1x1.25)  
Dev - Ref, Dynamic Range



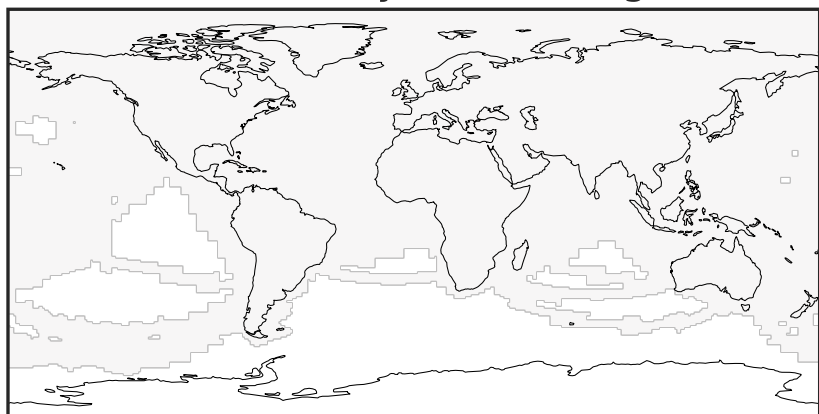
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



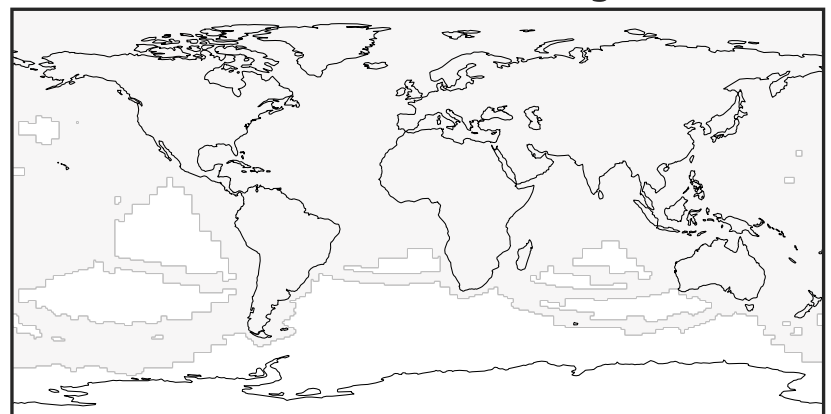
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

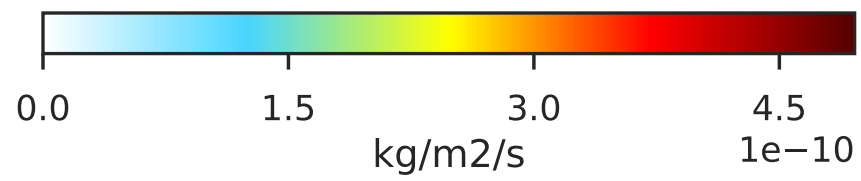
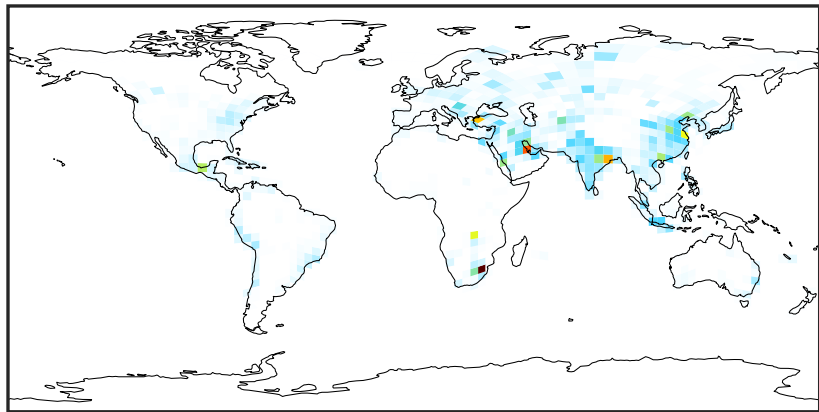
Ratio (1x1.25)  
Dev/Ref, Fixed Range



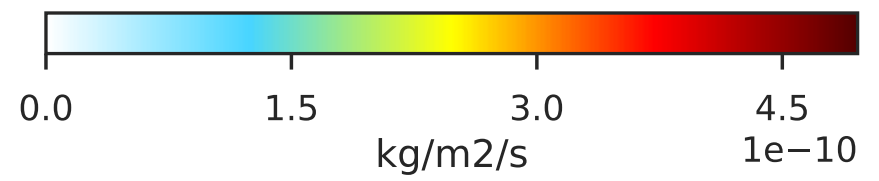
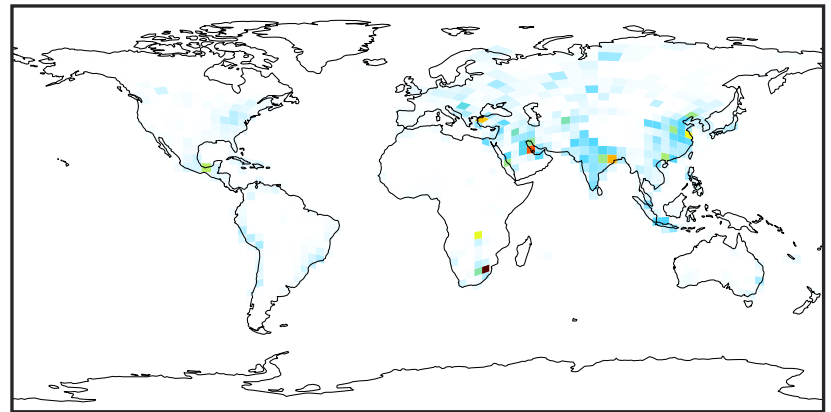
Ref and Dev equal throughout domain  
unitless

# EmisSO2\_Anthro (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



Difference (1x1.25)  
Dev - Ref, Dynamic Range



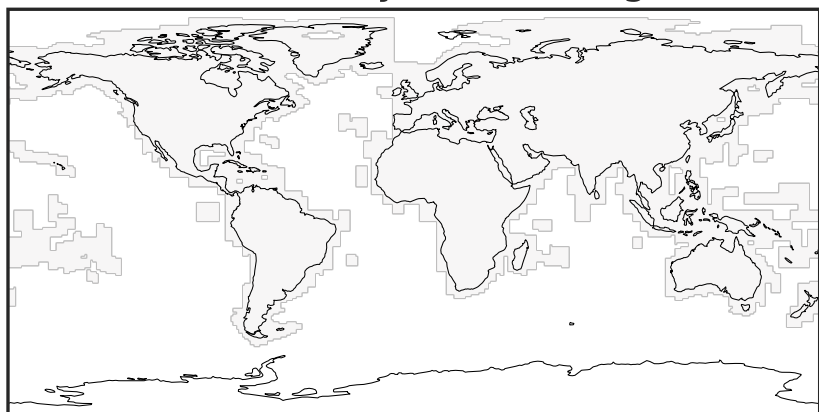
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



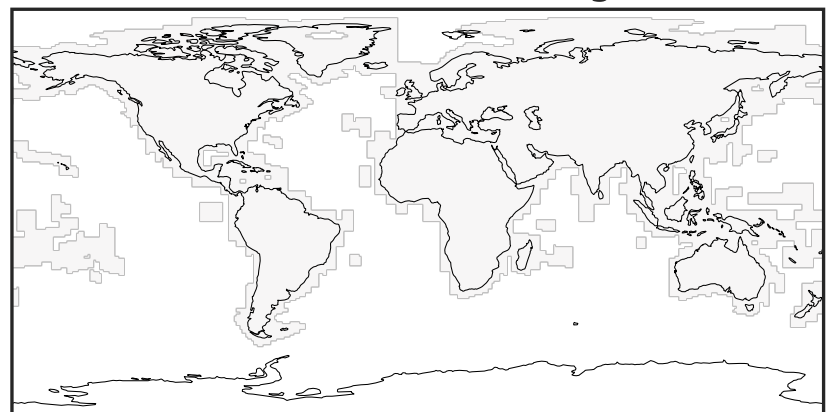
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

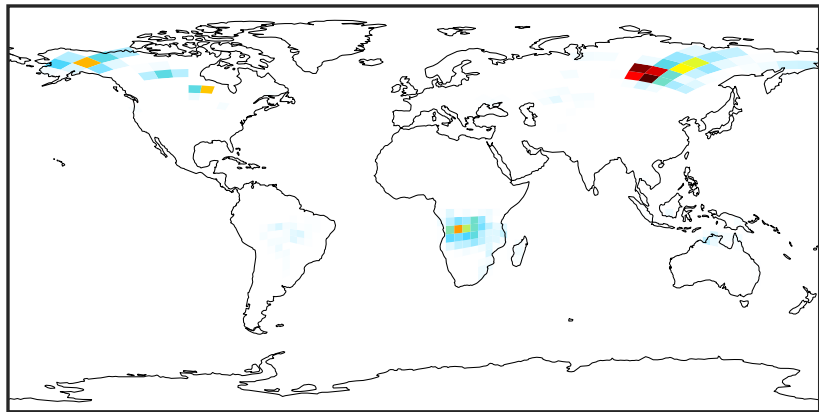
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

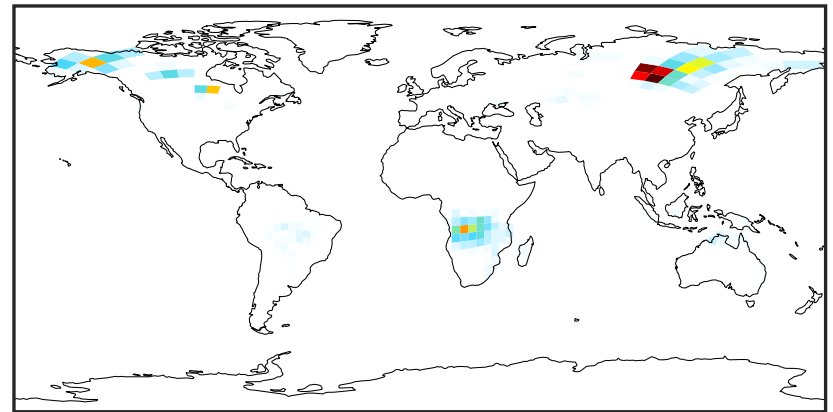
# EmisSO2\_BioBurn (Jul2019)

14.2.0-rc.2 (Ref)  
c24



0.0 2.5 5.0 7.5  
kg/m<sup>2</sup>/s 1e-11

14.3.0-rc.0 (Dev)  
c24



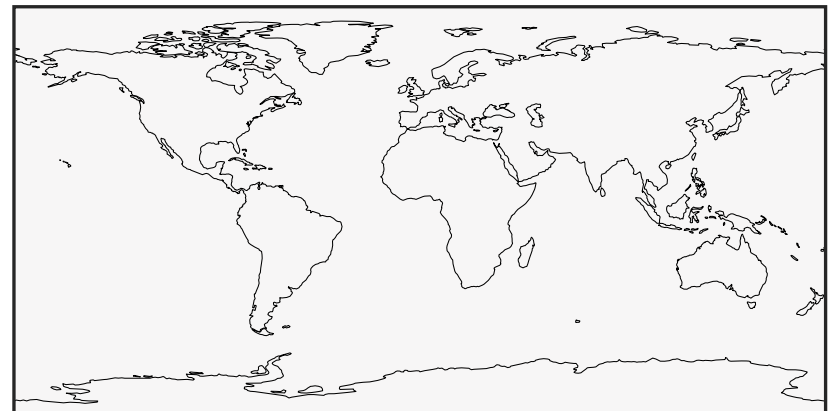
0.0 2.5 5.0 7.5  
kg/m<sup>2</sup>/s 1e-11

Difference (1x1.25)  
Dev - Ref, Dynamic Range



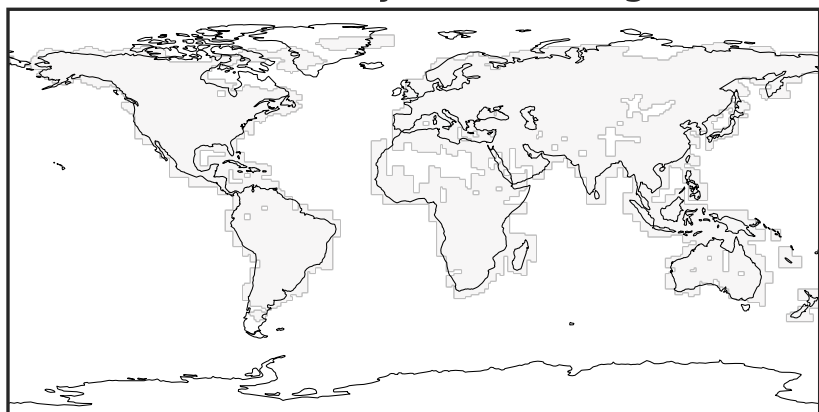
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



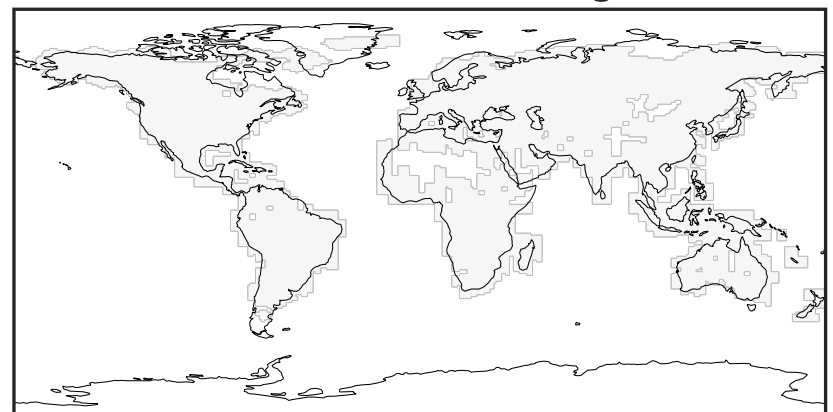
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

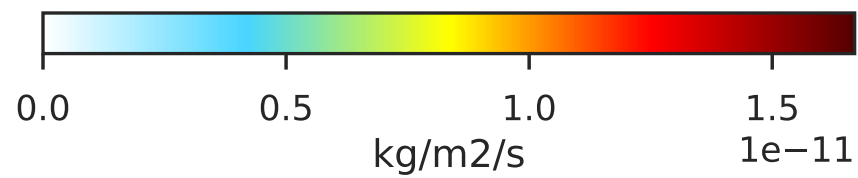
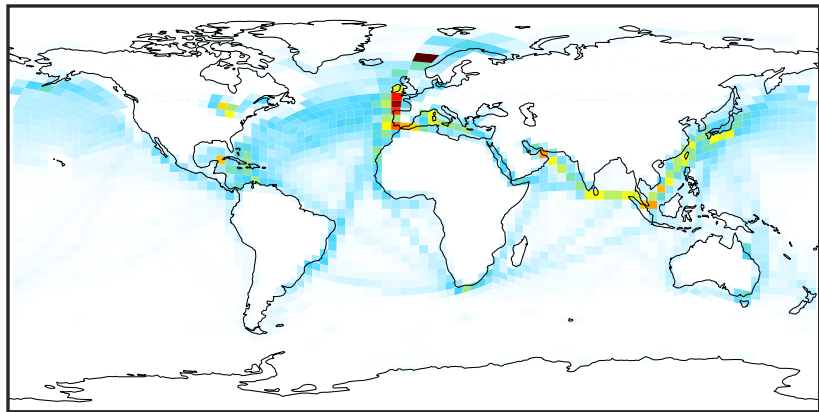
Ratio (1x1.25)  
Dev/Ref, Fixed Range



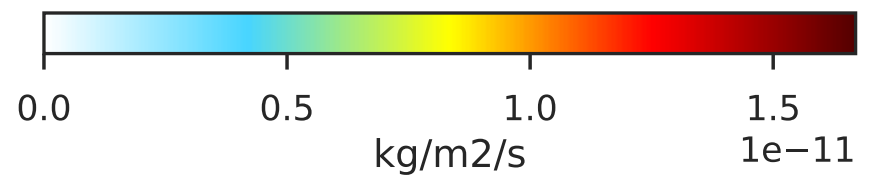
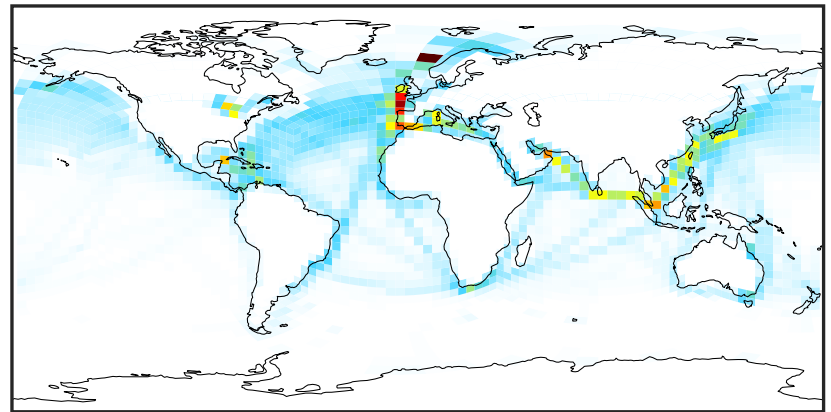
Ref and Dev equal throughout domain  
unitless

# EmisSO2\_Ship (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



Difference (1x1.25)  
Dev - Ref, Dynamic Range



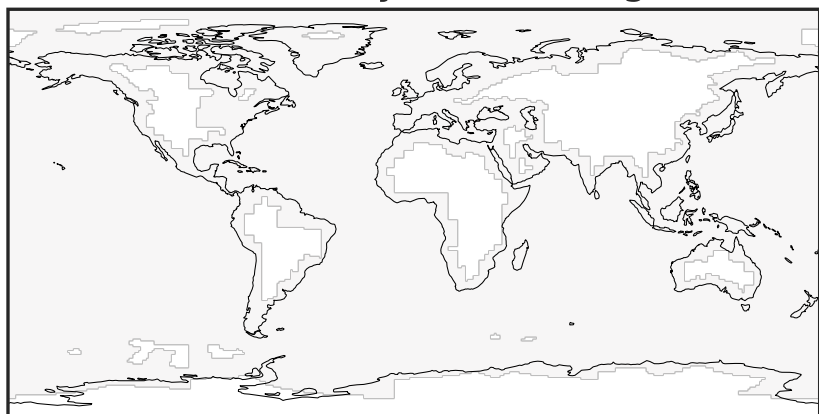
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



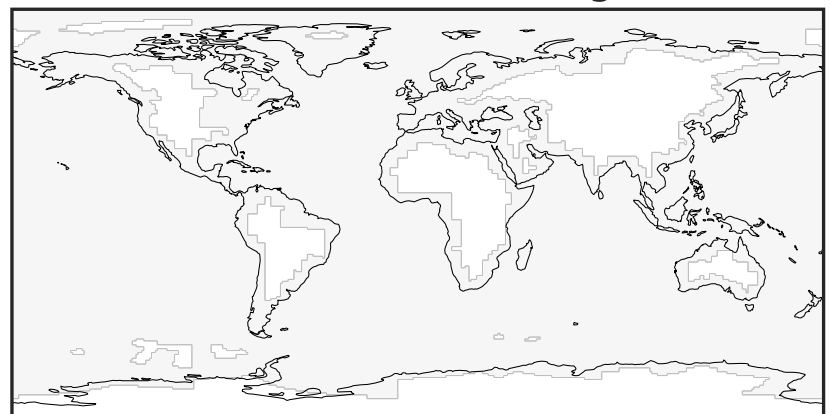
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range

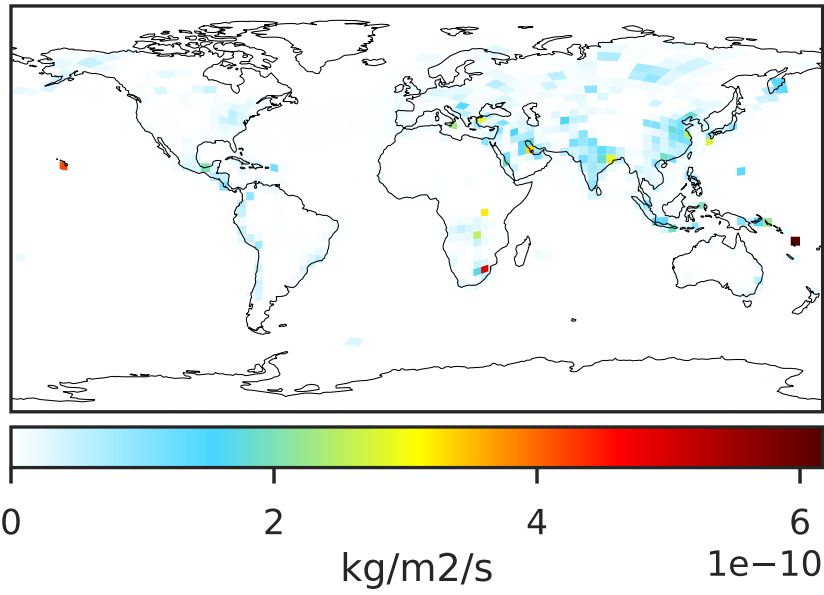


Ref and Dev equal throughout domain  
unitless

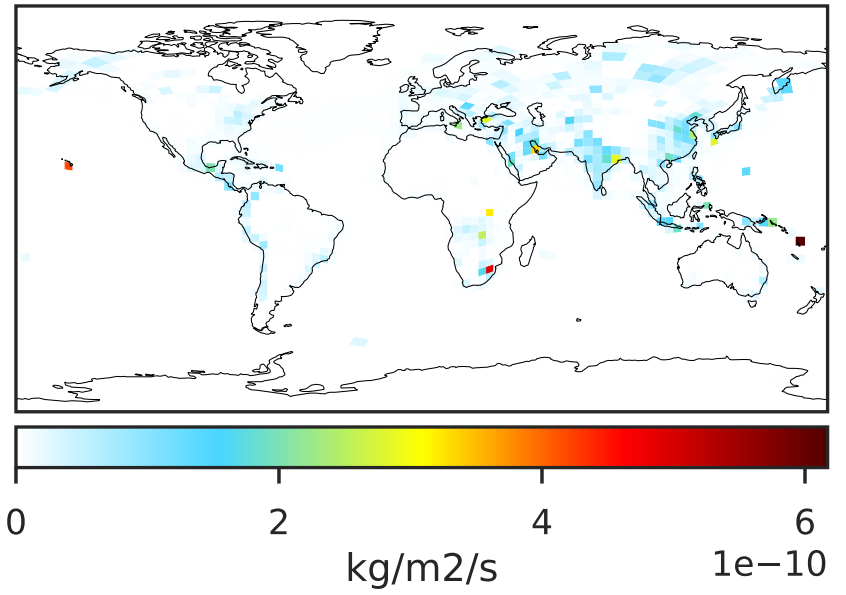


# EmisSO2\_Total (Jul2019)

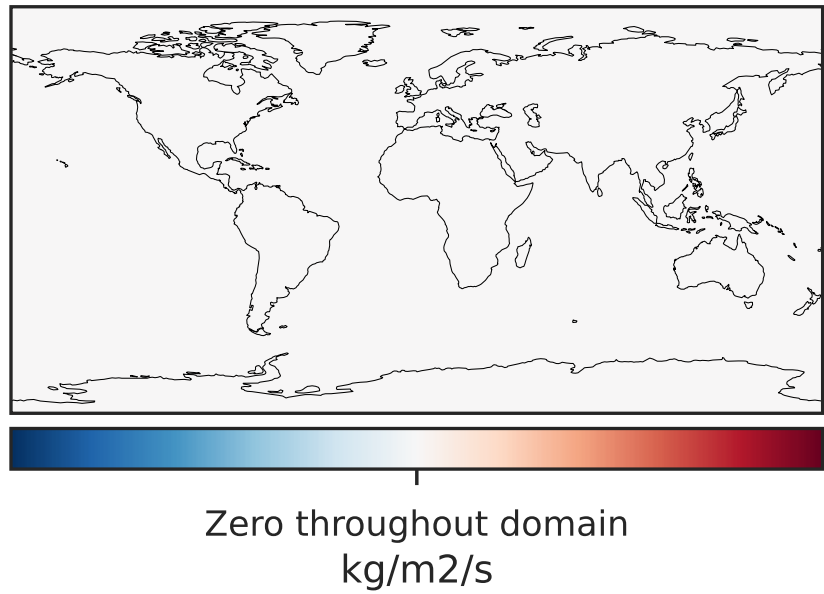
14.2.0-rc.2 (Ref)  
c24



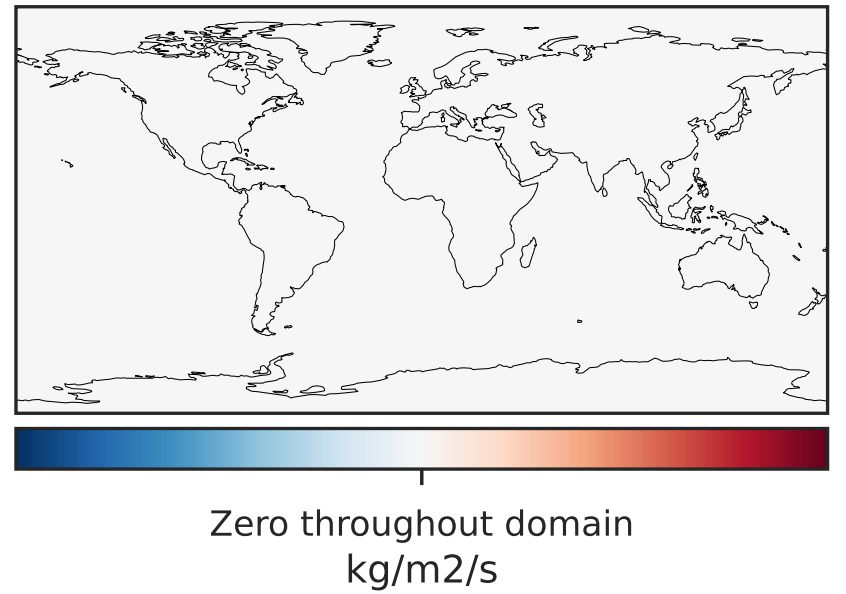
14.3.0-rc.0 (Dev)  
c24



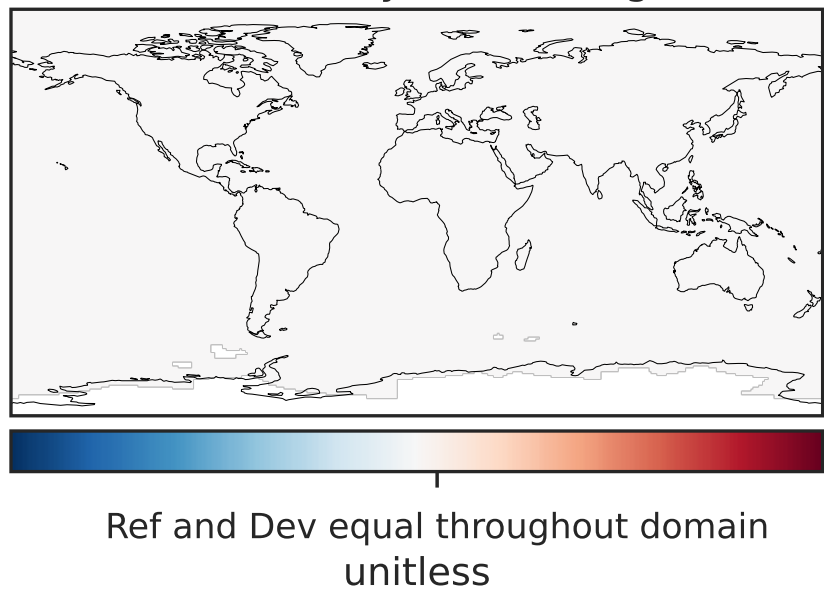
Difference (1x1.25)  
Dev - Ref, Dynamic Range



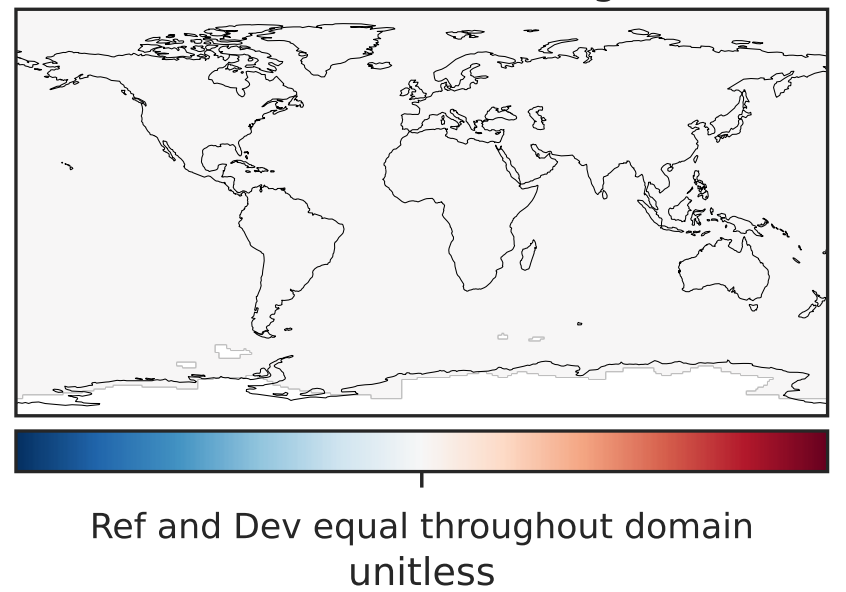
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

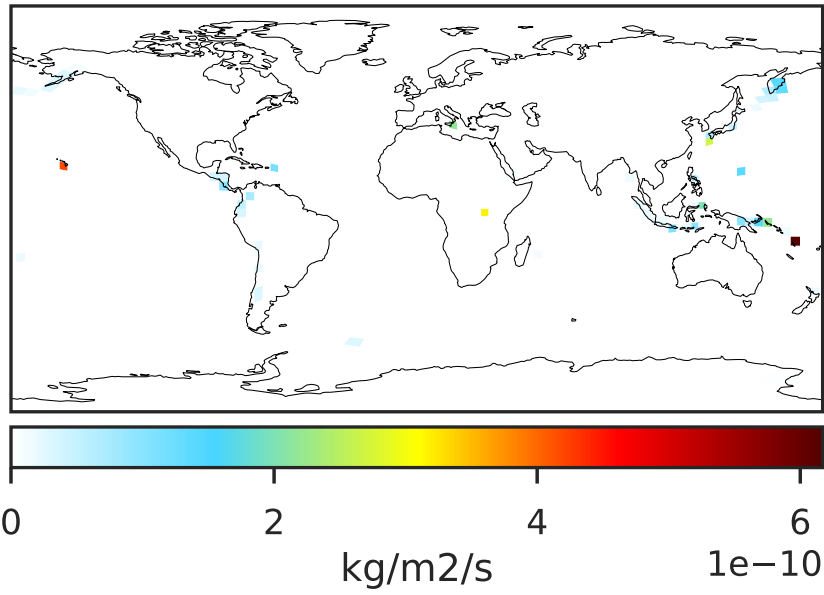


Ratio (1x1.25)  
Dev/Ref, Fixed Range

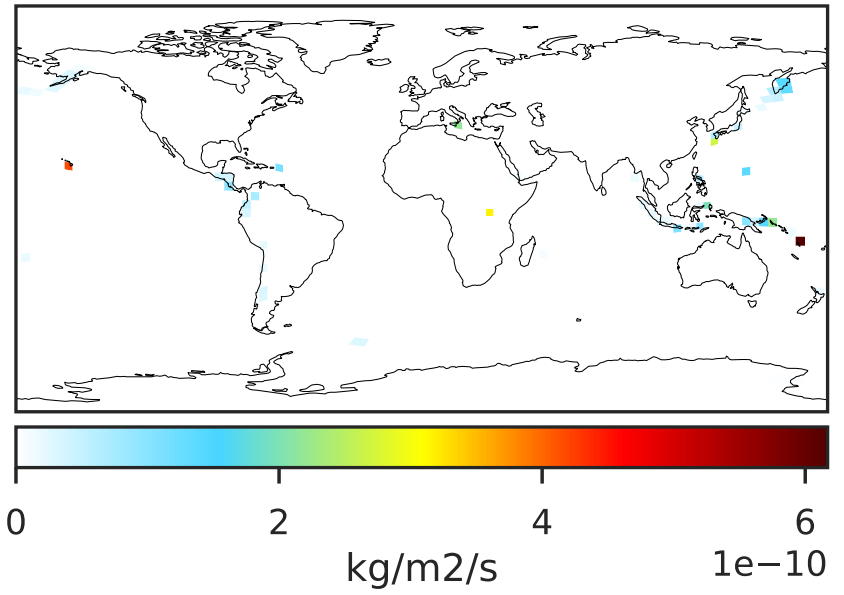


# EmisSO2\_VolcDegas (Jul2019)

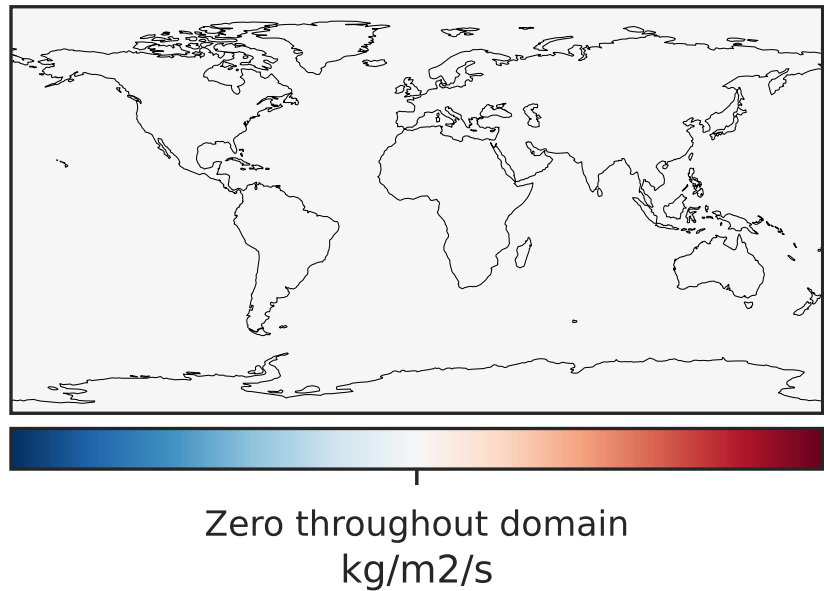
14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24

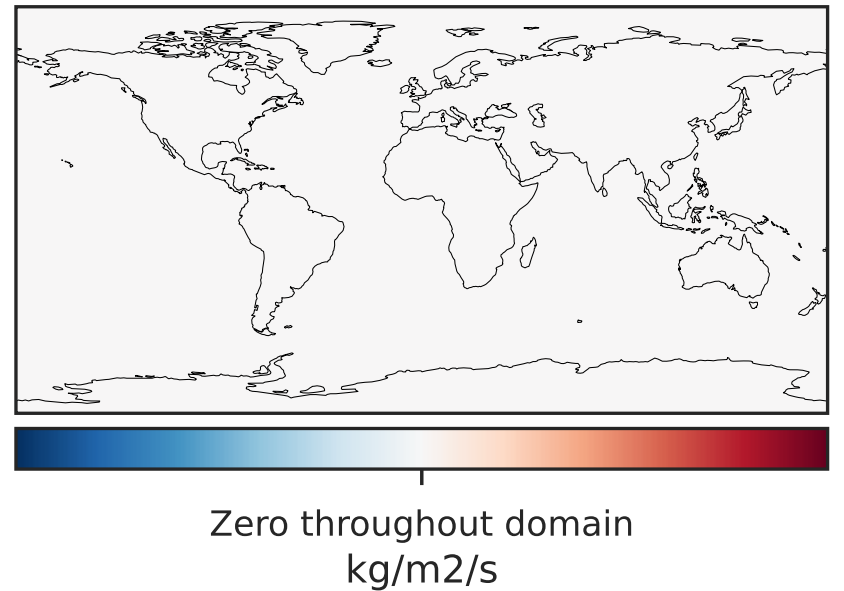


Difference (1x1.25)  
Dev - Ref, Dynamic Range



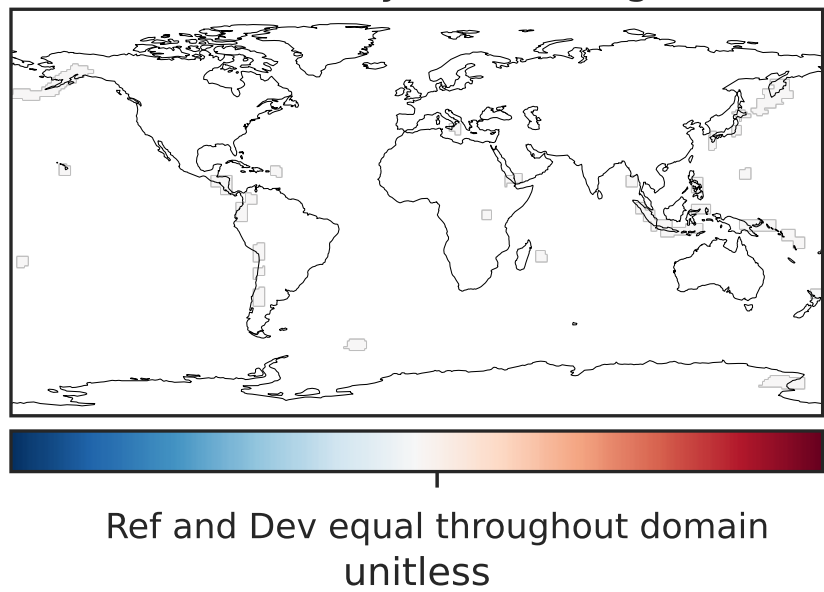
Zero throughout domain  
 $\text{kg/m}^2/\text{s}$

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



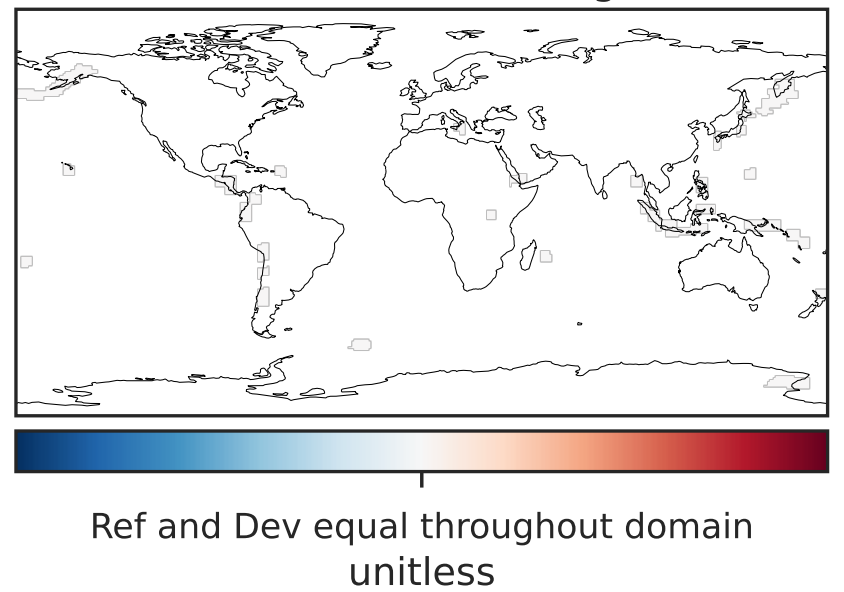
Zero throughout domain  
 $\text{kg/m}^2/\text{s}$

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

# EmisSO2\_VolcErupt (Jul2019)

14.2.0-rc.2 (Ref)  
c24



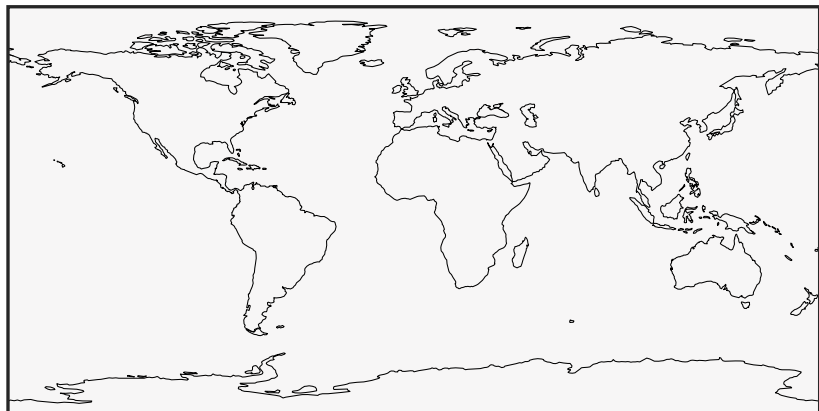
Zero throughout domain  
kg/m2/s

14.3.0-rc.0 (Dev)  
c24



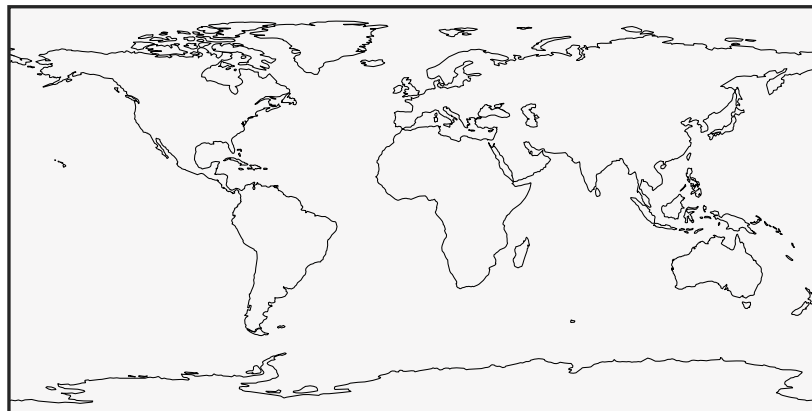
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Dynamic Range



Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range

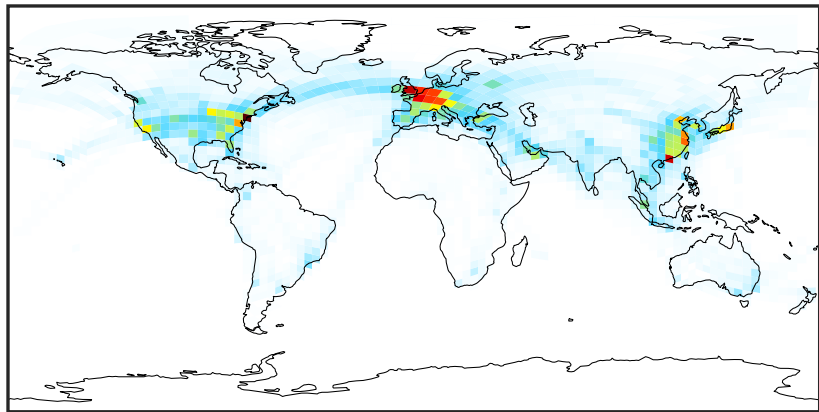


Undefined throughout domain  
unitless



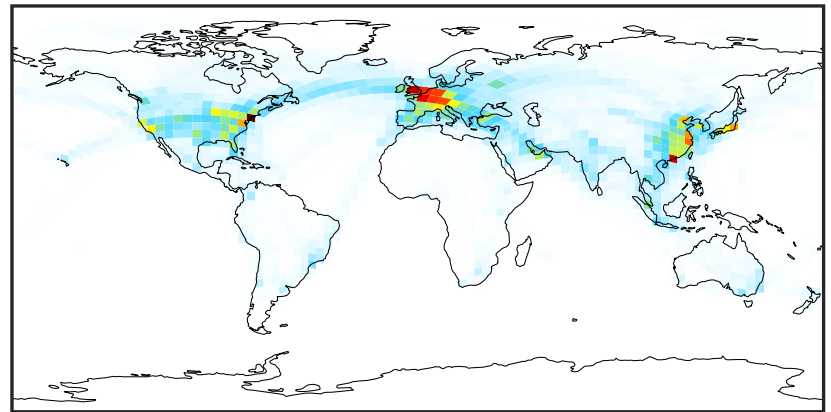
# EmisSO4\_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-14

14.3.0-rc.0 (Dev)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-14

Difference (1x1.25)  
Dev - Ref, Dynamic Range



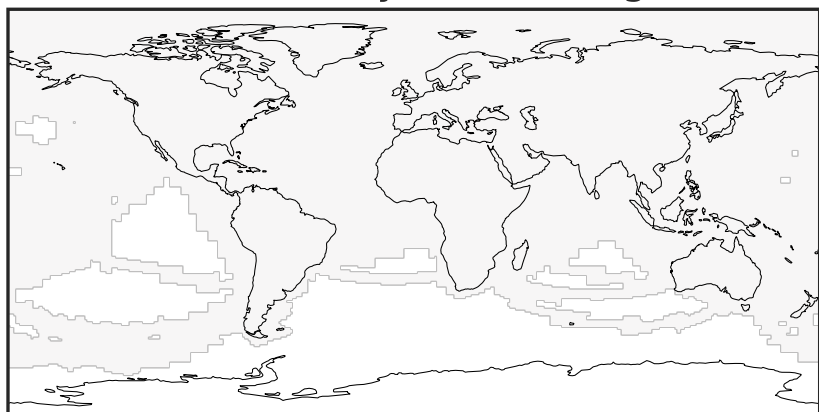
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



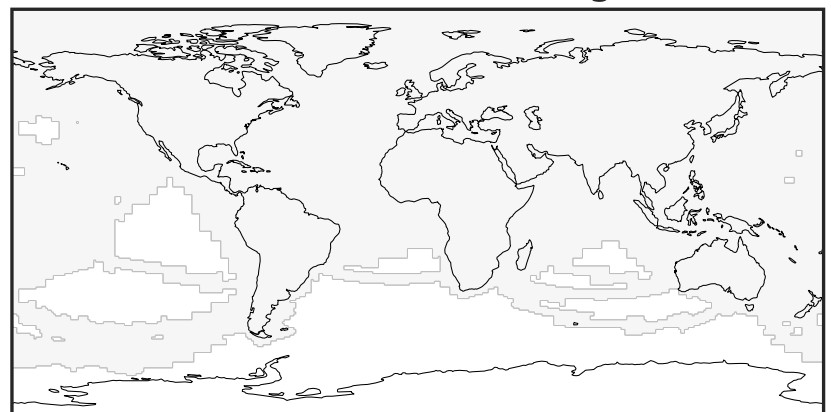
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

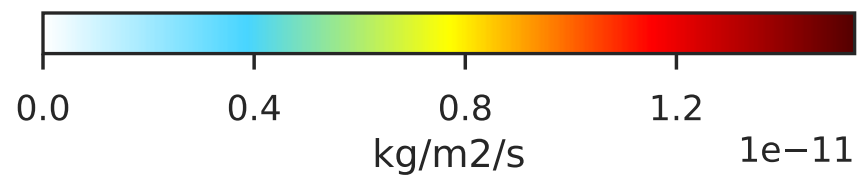
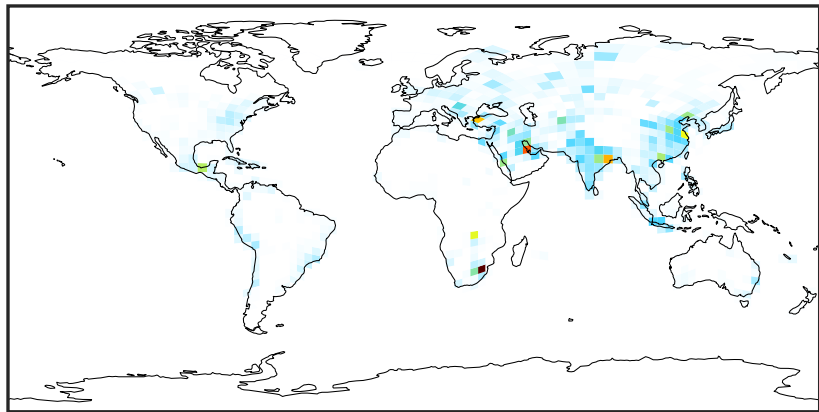
Ratio (1x1.25)  
Dev/Ref, Fixed Range



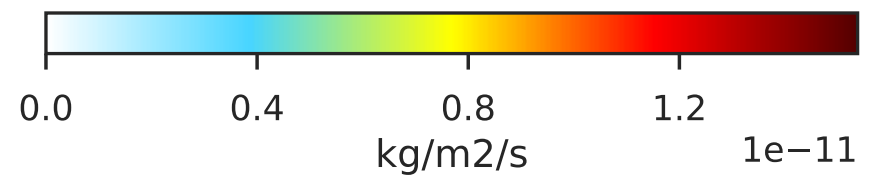
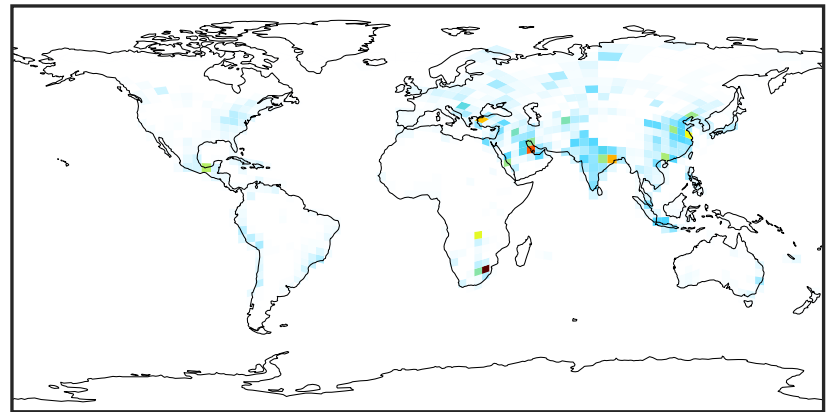
Ref and Dev equal throughout domain  
unitless

# EmisSO4\_Anthro (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



Difference (1x1.25)  
Dev - Ref, Dynamic Range



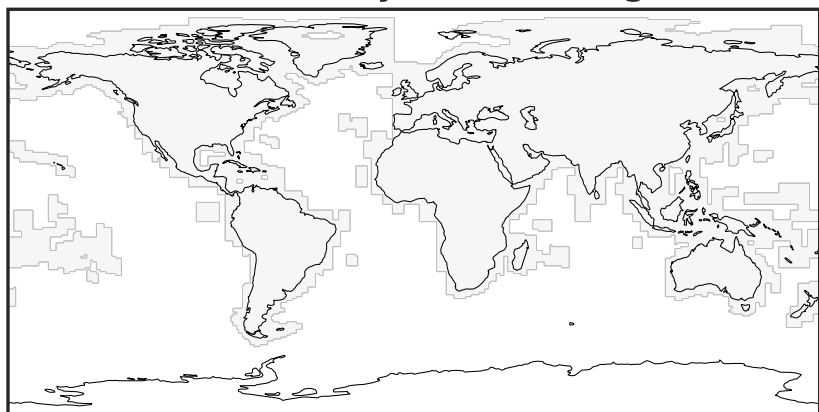
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



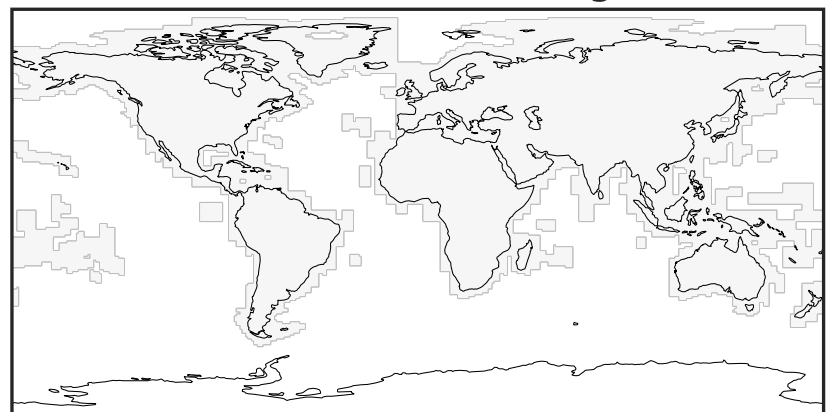
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

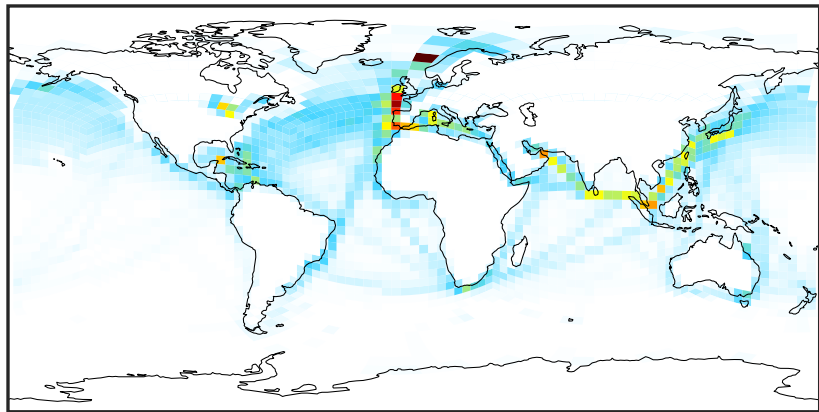
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

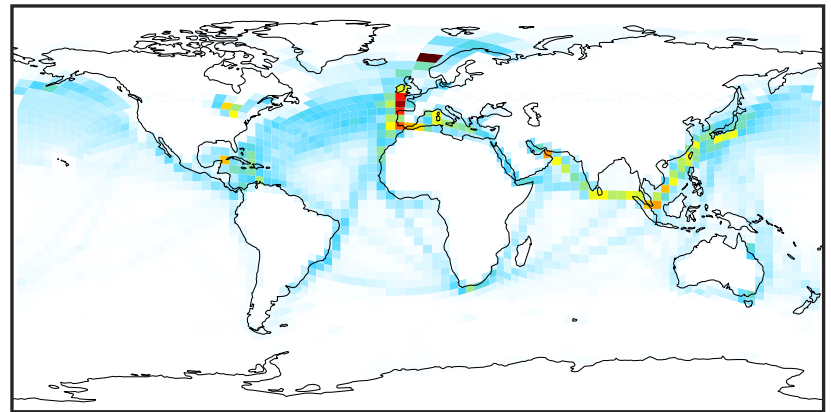
# EmisSO4\_Ship (Jul2019)

14.2.0-rc.2 (Ref)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-13

14.3.0-rc.0 (Dev)  
c24



0.0 1.5 3.0 4.5  
kg/m<sup>2</sup>/s 1e-13

Difference (1x1.25)  
Dev - Ref, Dynamic Range



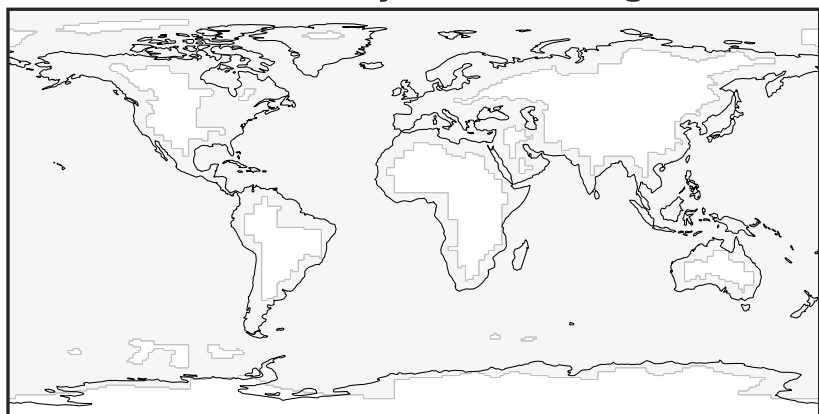
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



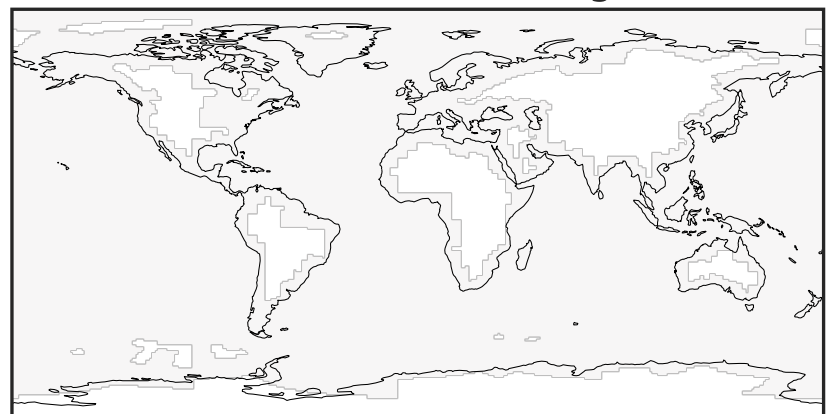
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

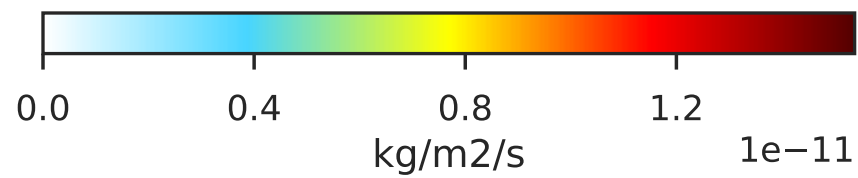
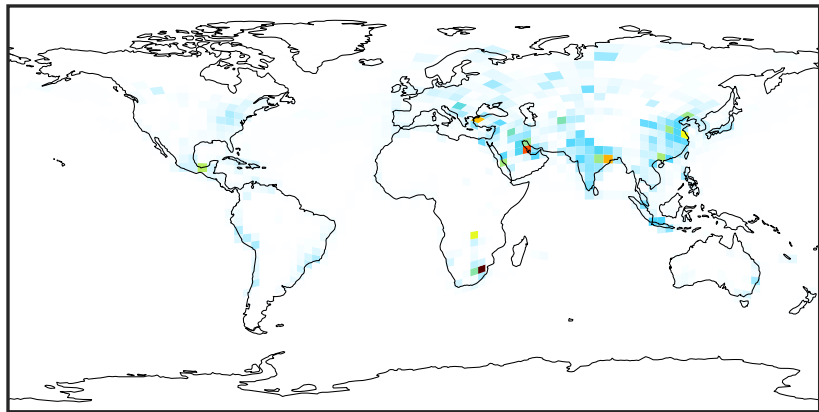
Ratio (1x1.25)  
Dev/Ref, Fixed Range



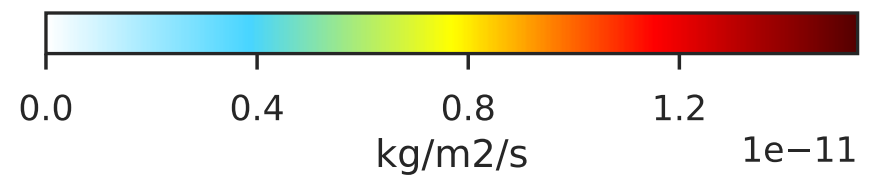
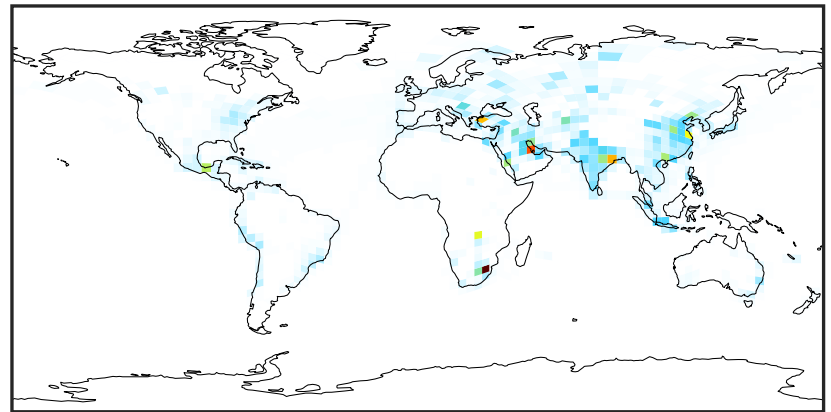
Ref and Dev equal throughout domain  
unitless

# EmisSO4\_Total (Jul2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



Difference (1x1.25)  
Dev - Ref, Dynamic Range



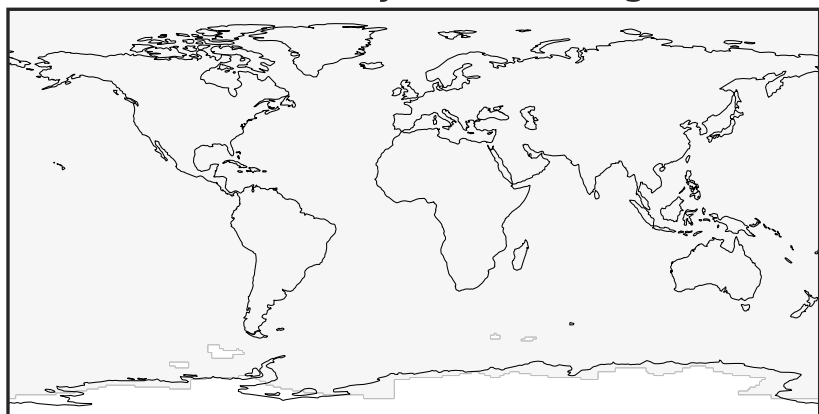
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



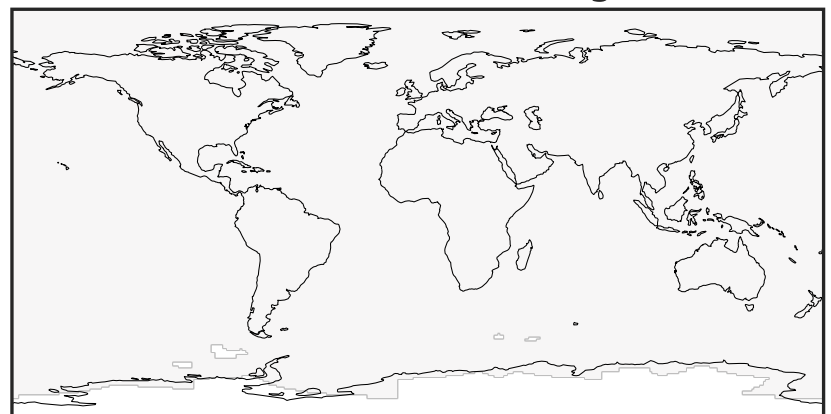
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ref and Dev equal throughout domain  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless