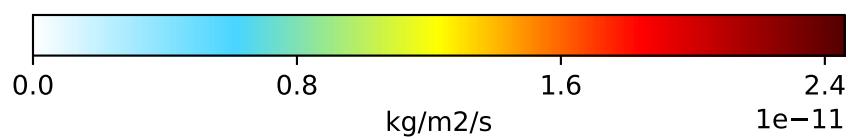
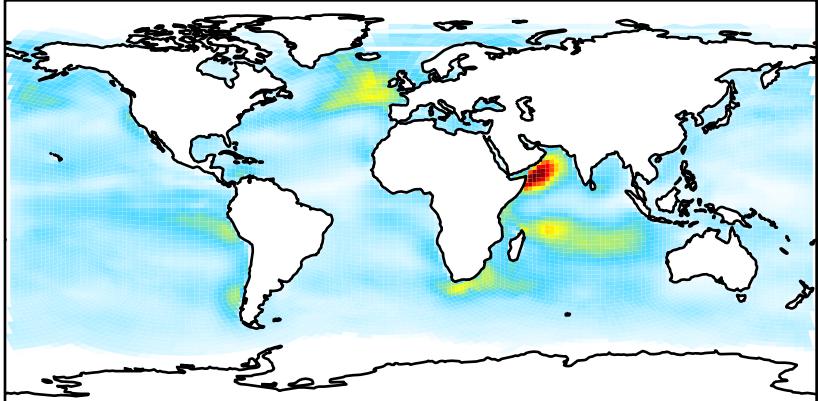
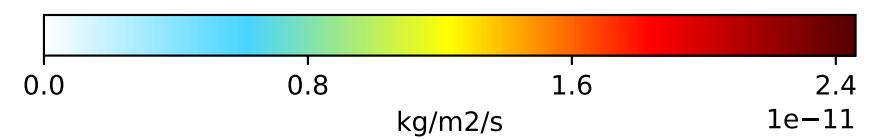
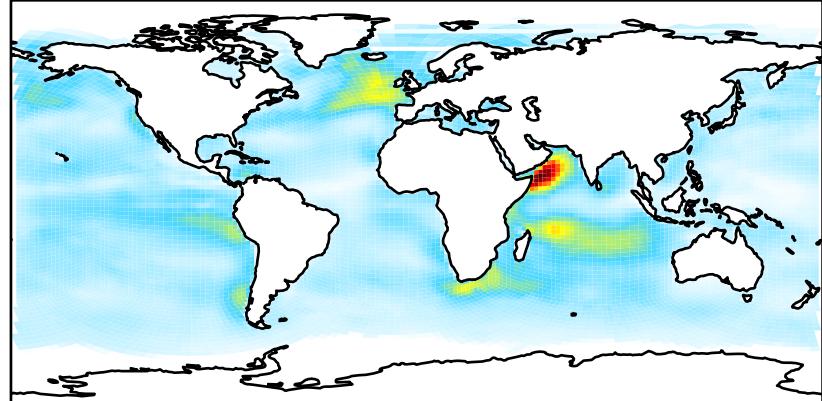


EmisDMS_Ocean

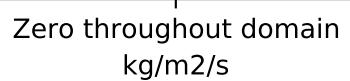
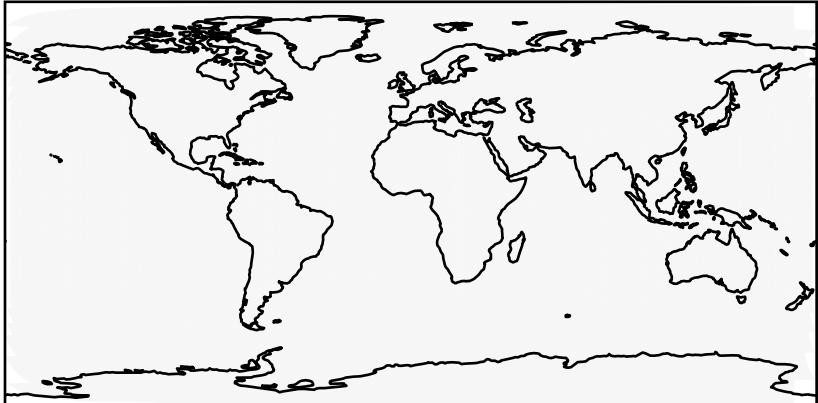
GCHP_13.2.0 (Ref)
c48



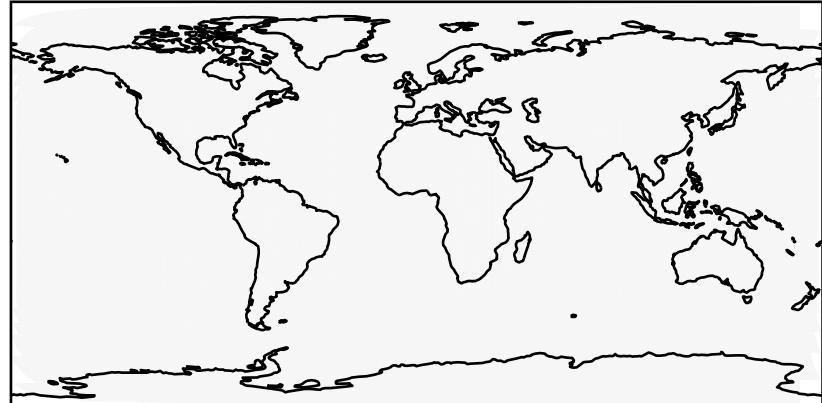
GCHP_13.3.0-rc.1 (Dev)
c48



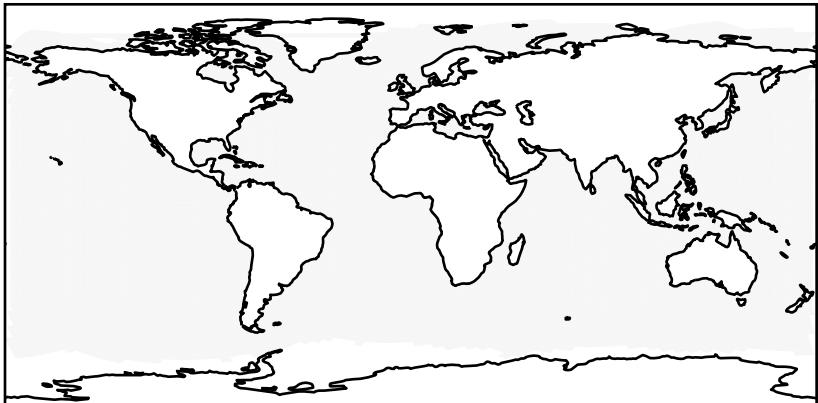
Difference
Dev - Ref, Dynamic Range



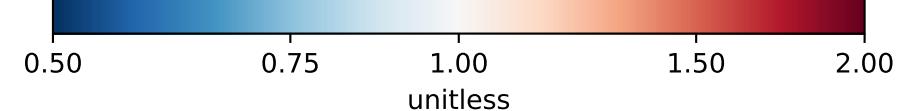
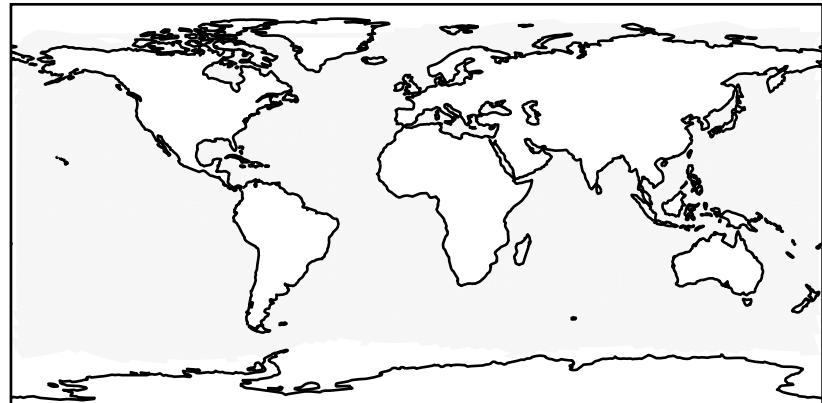
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

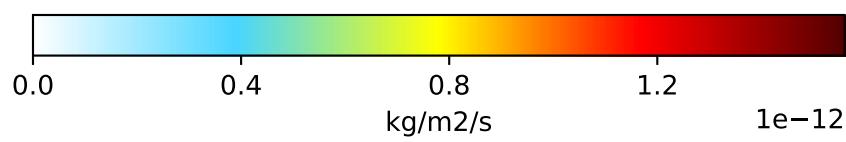
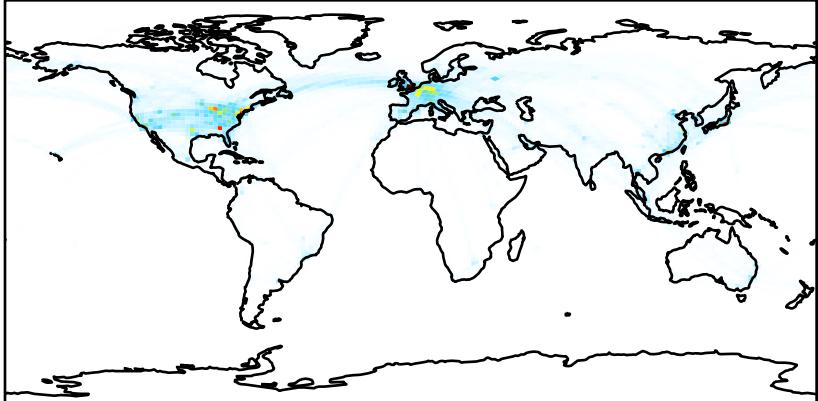


Ratio
Dev/Ref, Fixed Range

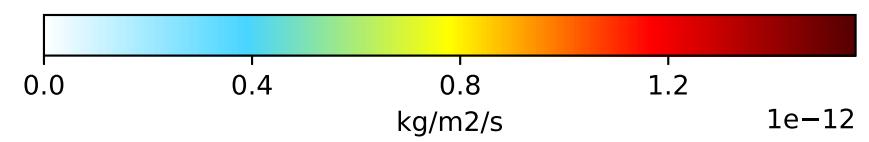
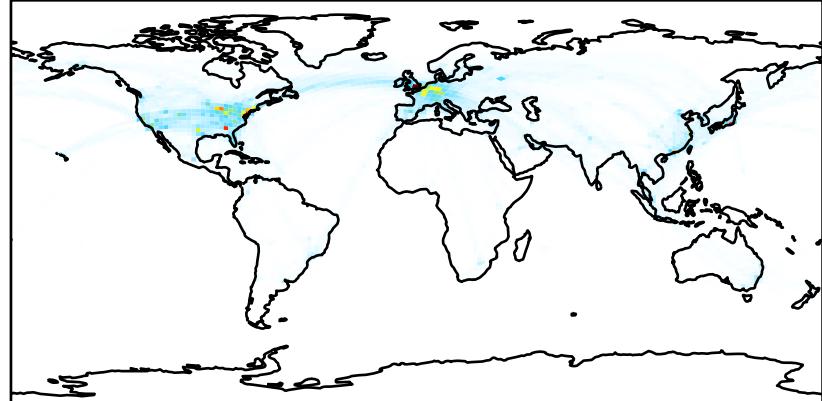


EmisSO2_Aircraft

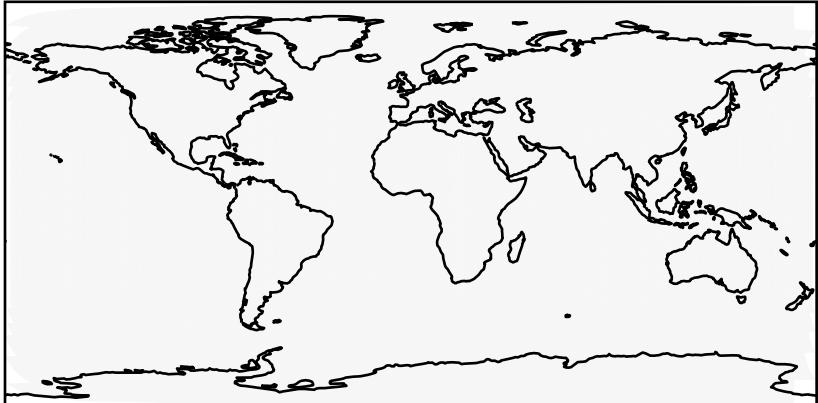
GCHP_13.2.0 (Ref)
c48



GCHP_13.3.0-rc.1 (Dev)
c48

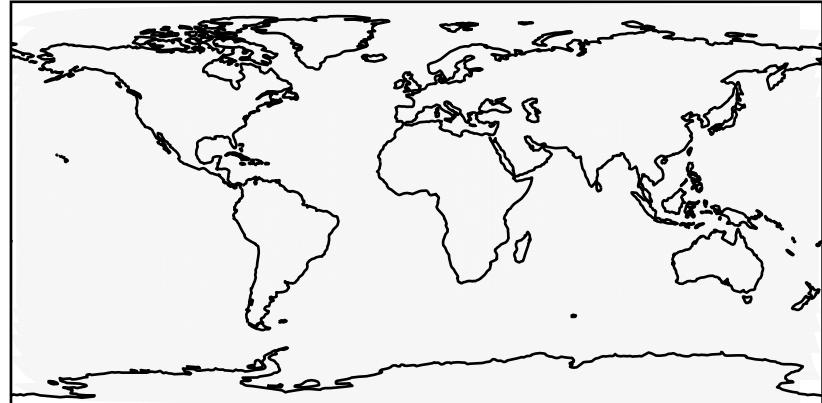


Difference
Dev - Ref, Dynamic Range



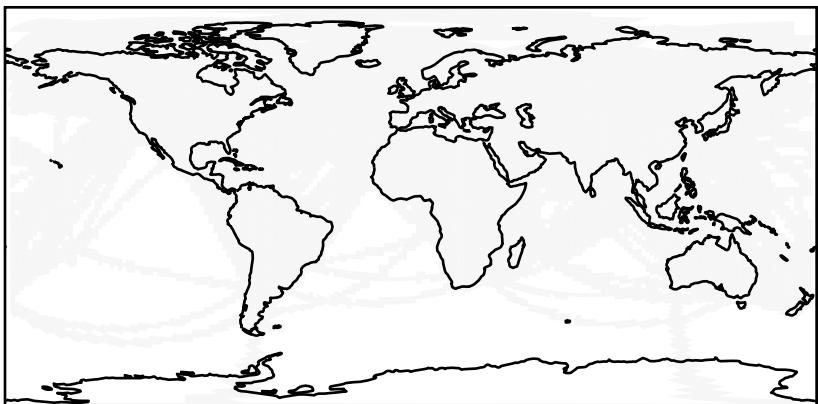
Zero throughout domain
kg/m²/s

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



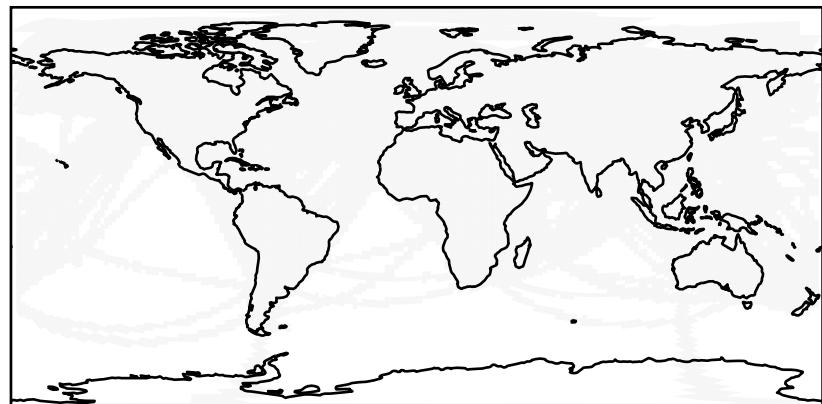
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08
unitless

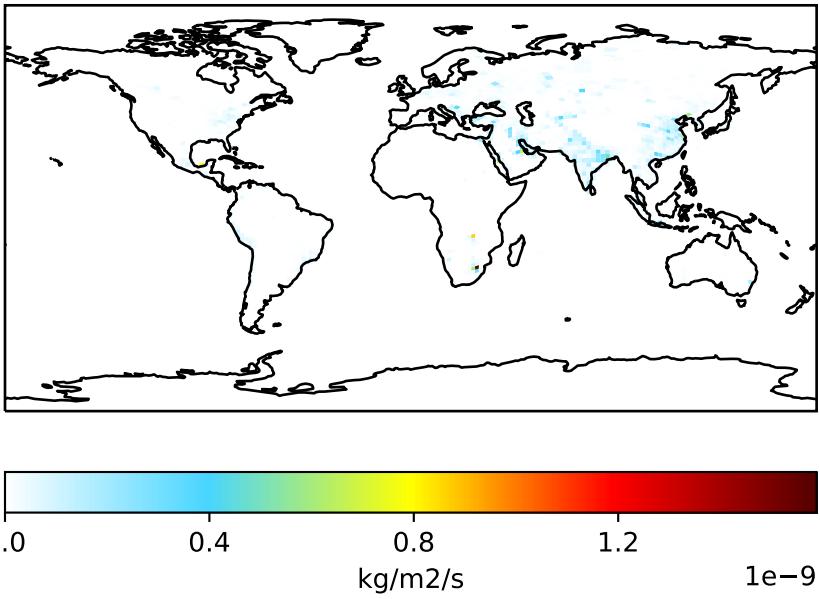
Ratio
Dev/Ref, Fixed Range



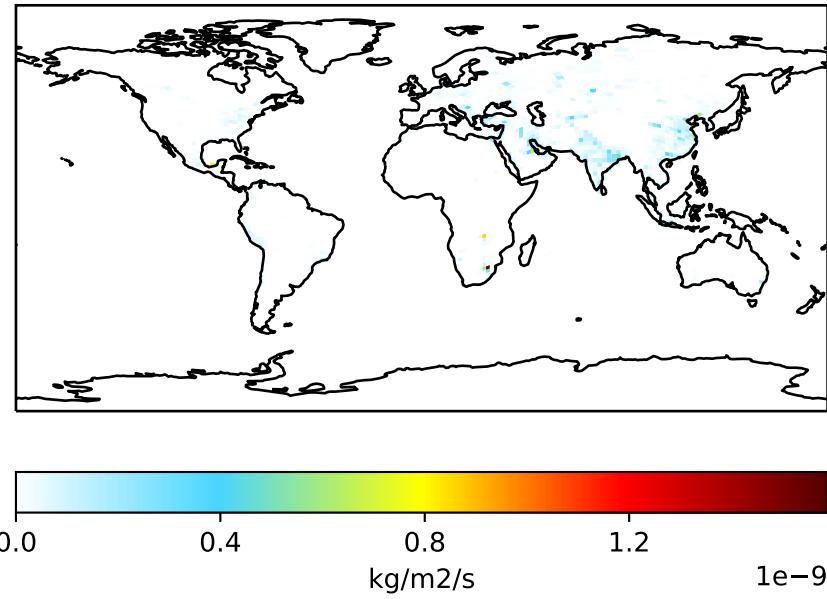
0.50 0.75 1.00 1.50 2.00
unitless

EmisSO2_Anthro

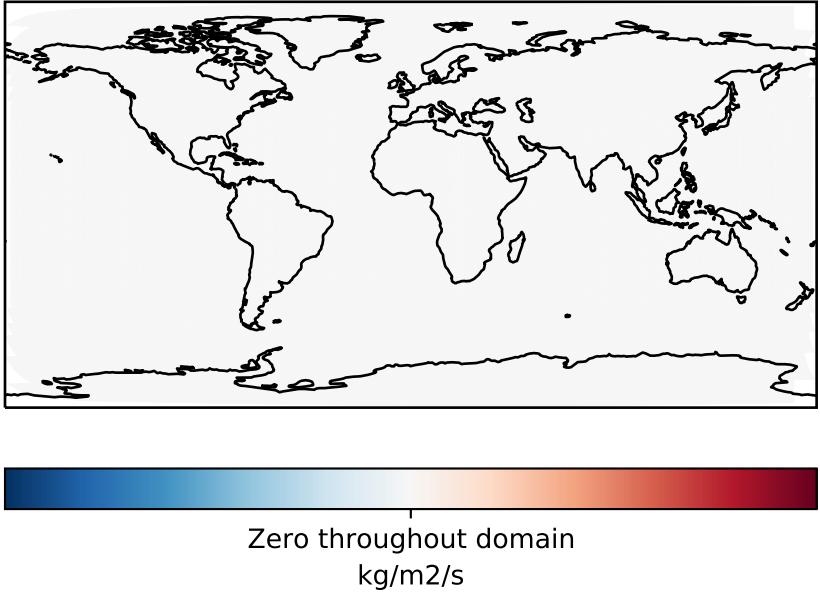
GCHP_13.2.0 (Ref)
c48



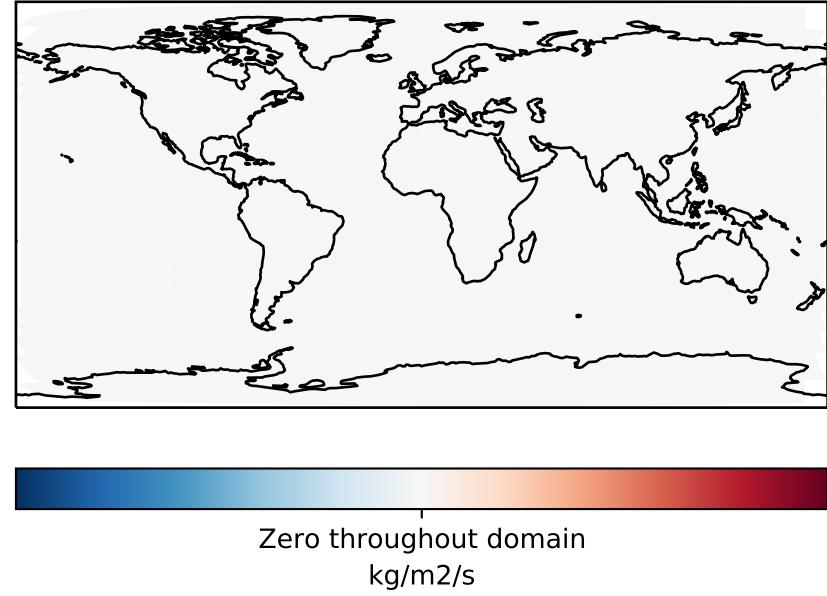
GCHP_13.3.0-rc.1 (Dev)
c48



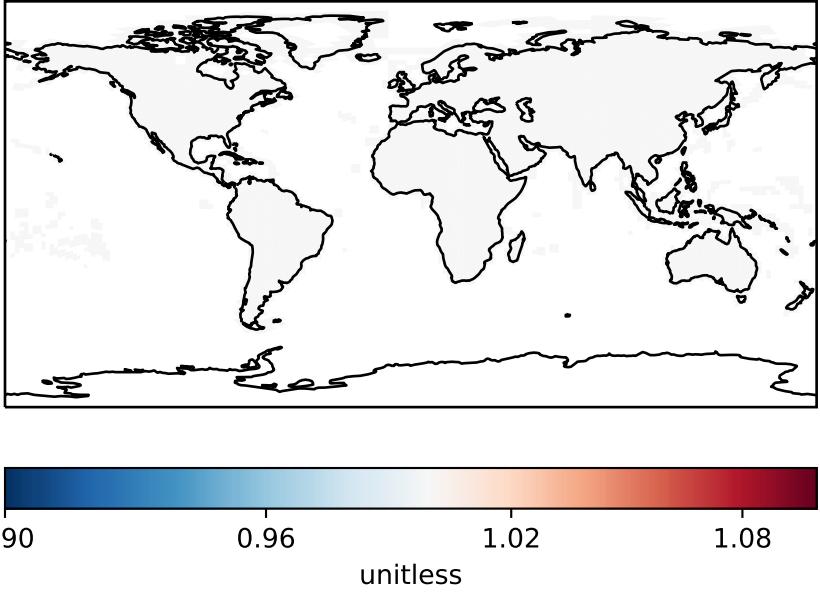
Difference
Dev - Ref, Dynamic Range



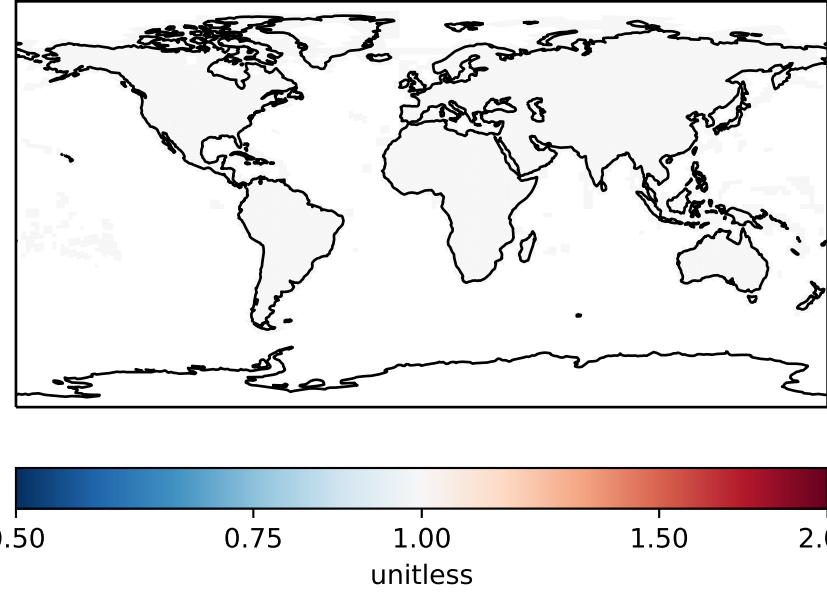
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

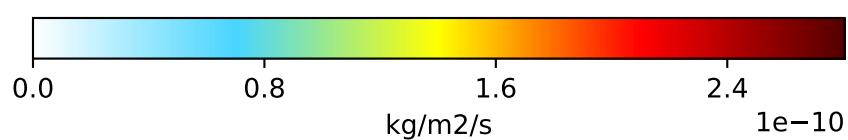
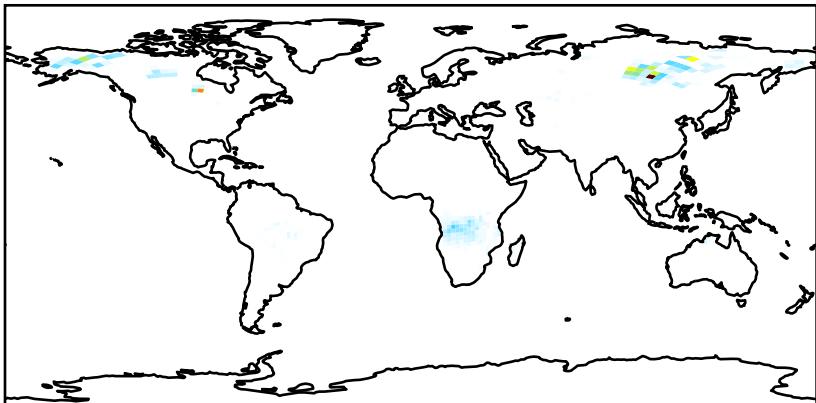


Ratio
Dev/Ref, Fixed Range

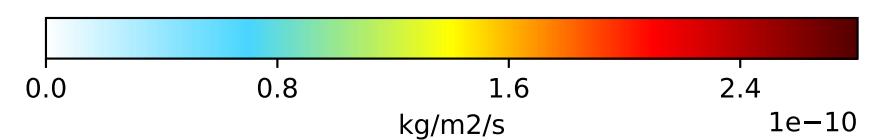
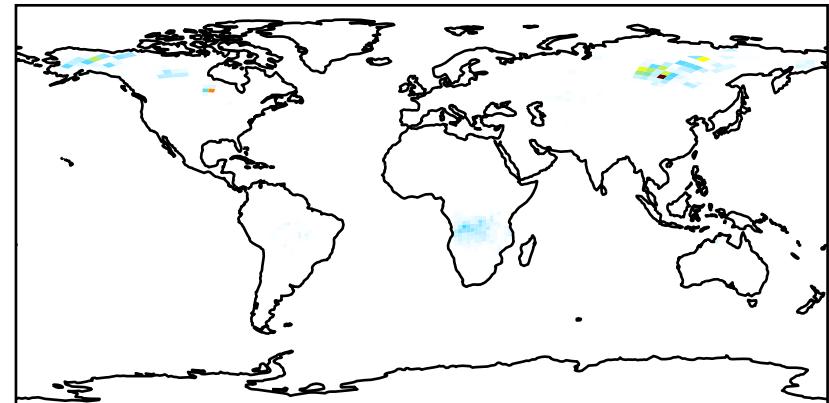


EmisSO2_BioBurn

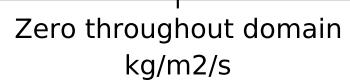
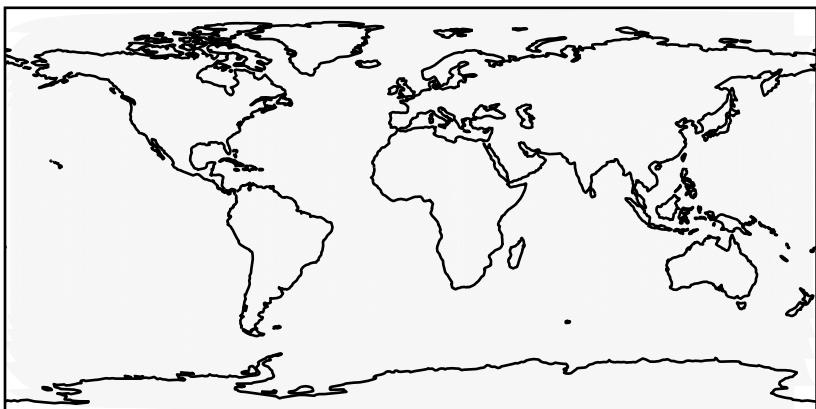
GCHP_13.2.0 (Ref)
c48



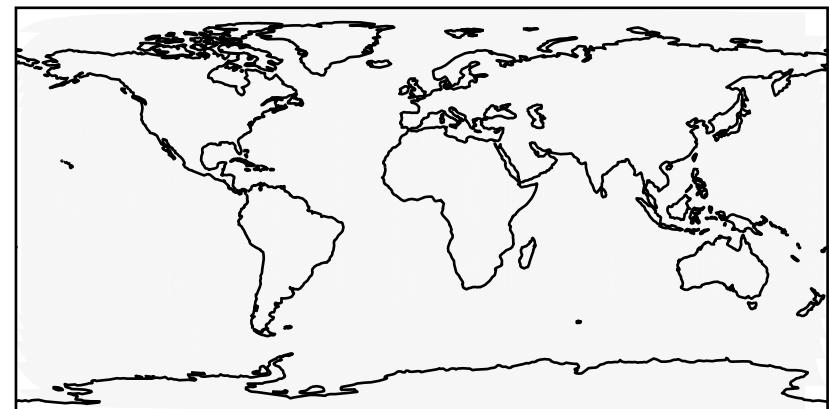
GCHP_13.3.0-rc.1 (Dev)
c48



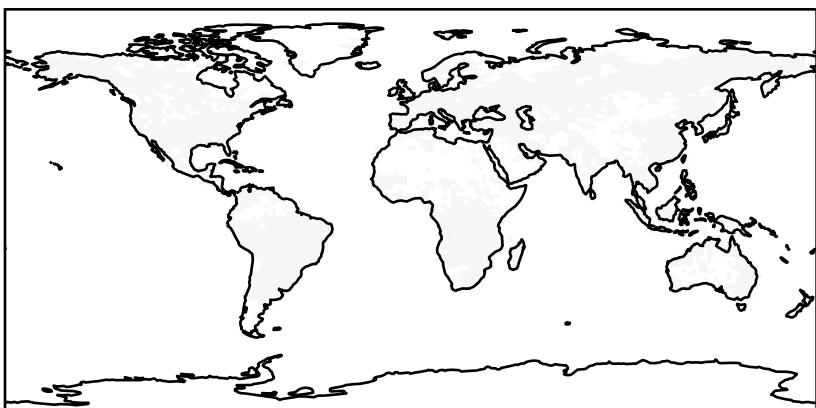
Difference
Dev - Ref, Dynamic Range



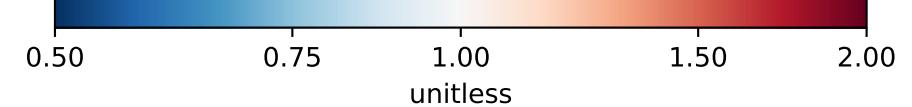
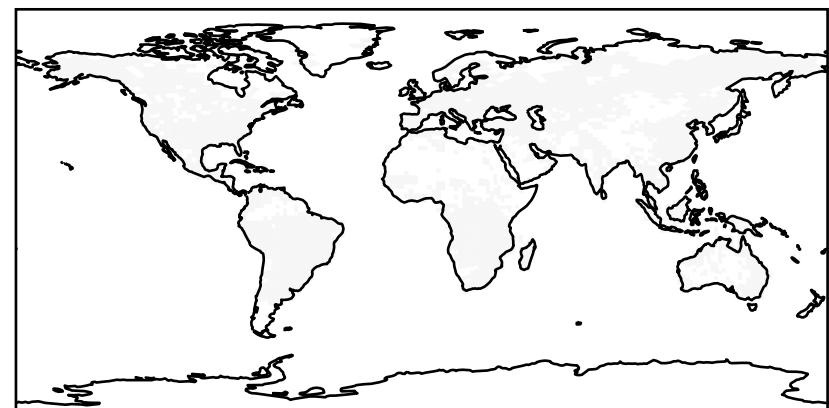
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

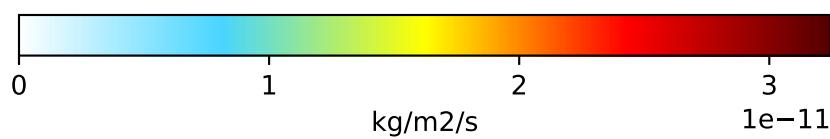
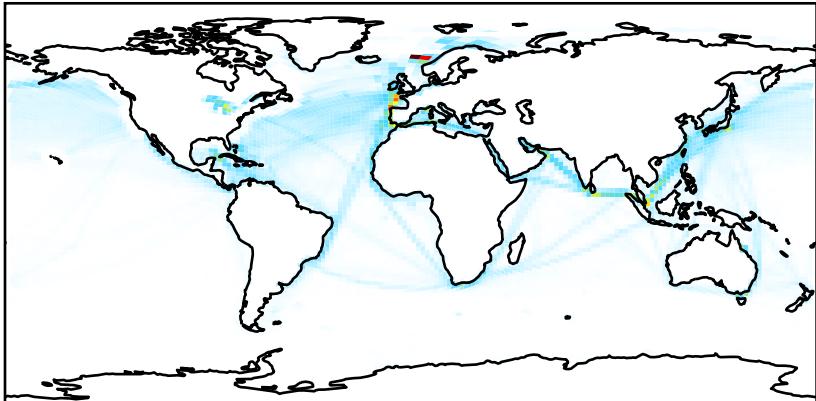


Ratio
Dev/Ref, Fixed Range

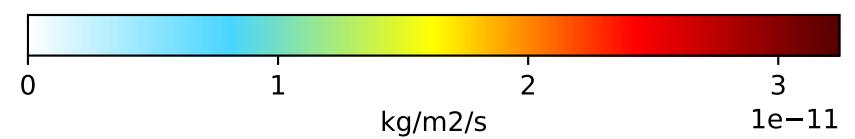
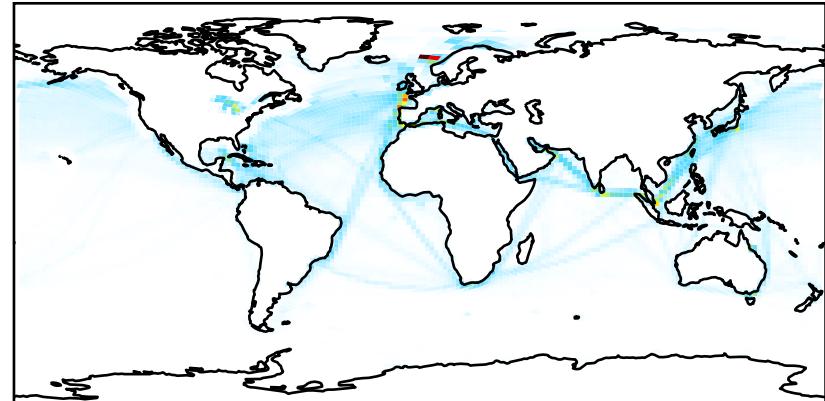


EmisSO2_Ship

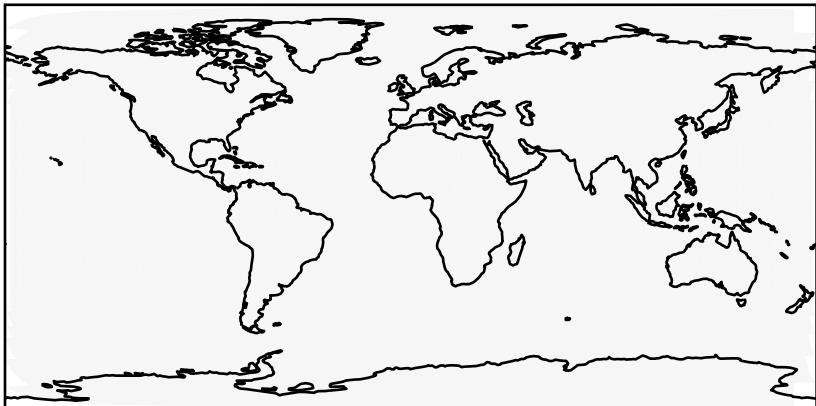
GCHP_13.2.0 (Ref)
c48



GCHP_13.3.0-rc.1 (Dev)
c48

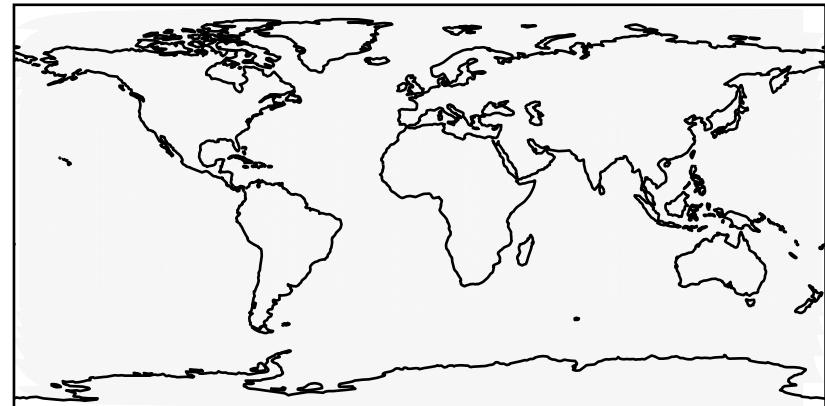


Difference
Dev - Ref, Dynamic Range



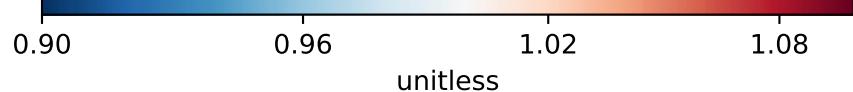
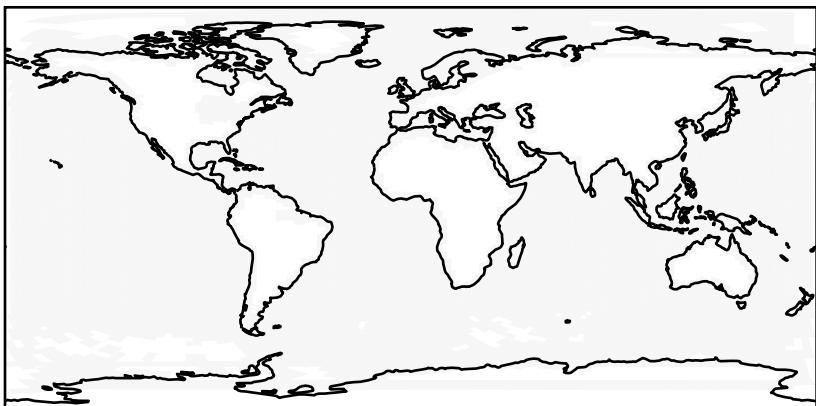
Zero throughout domain
 $\text{kg/m}^2/\text{s}$

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

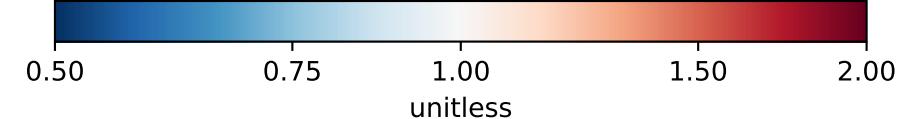
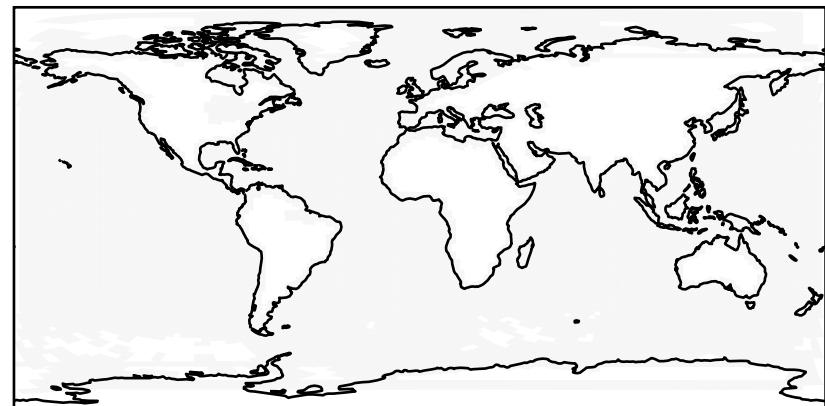


Zero throughout domain
 $\text{kg/m}^2/\text{s}$

Ratio
Dev/Ref, Dynamic Range

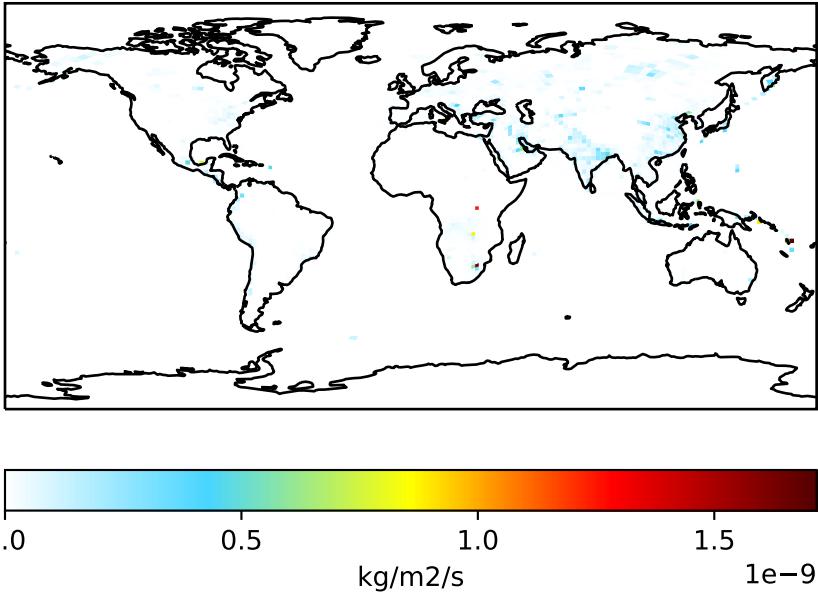


Ratio
Dev/Ref, Fixed Range

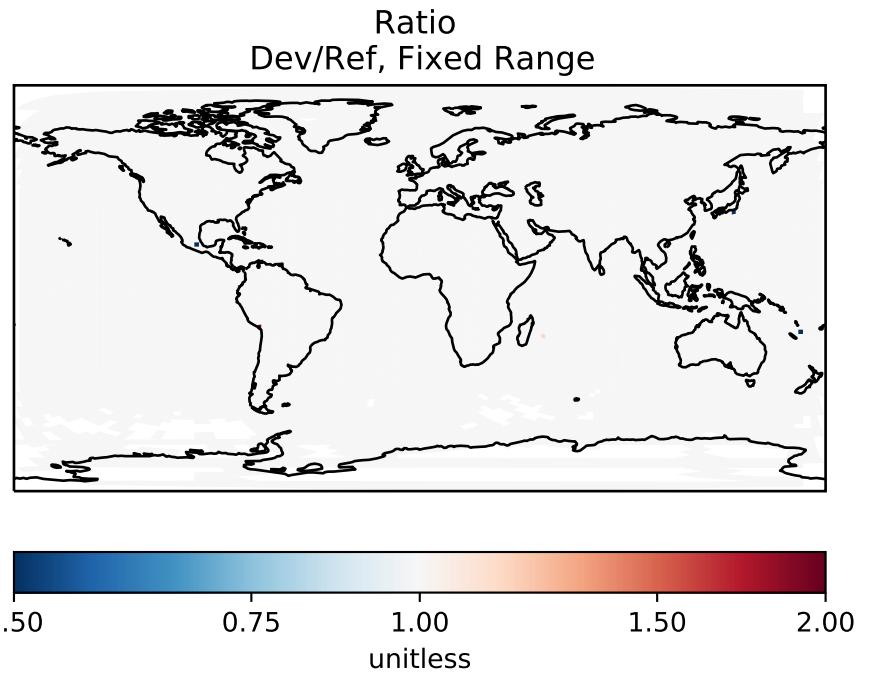
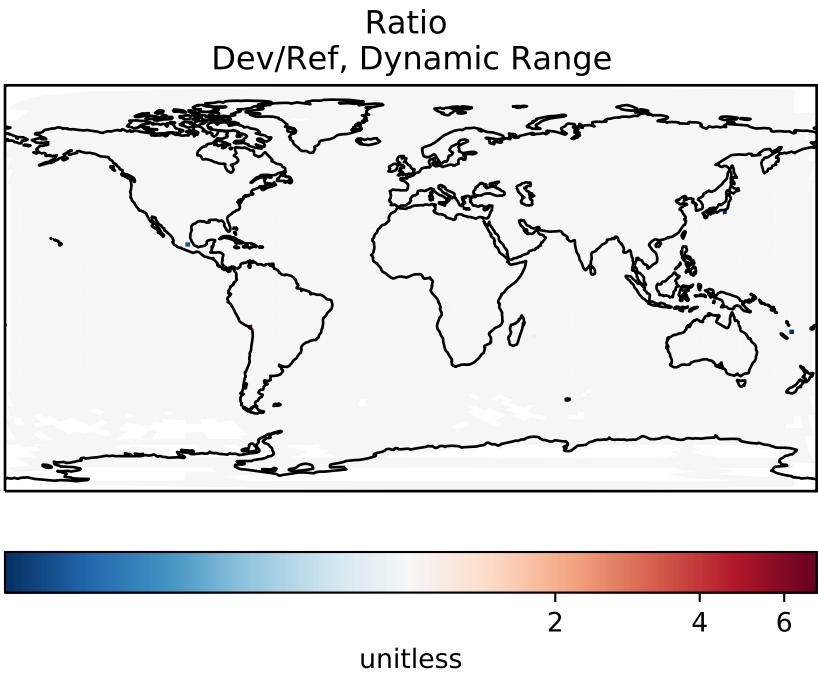
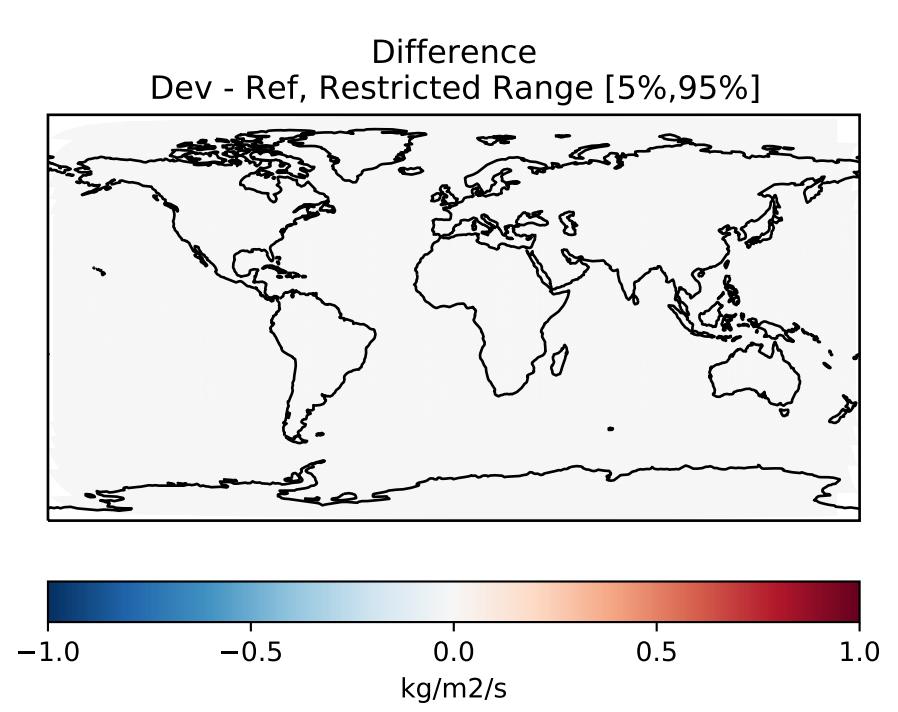
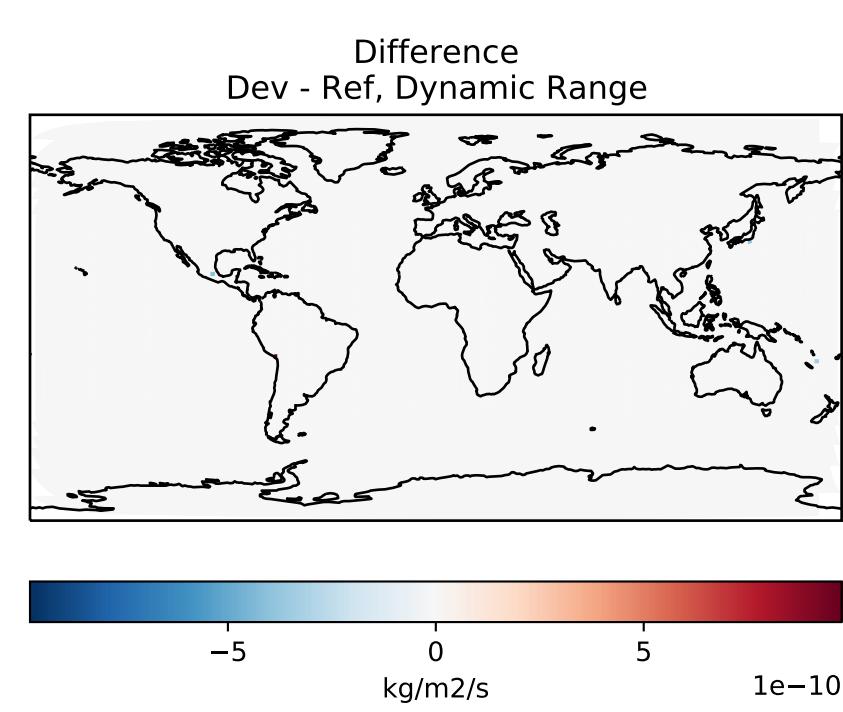
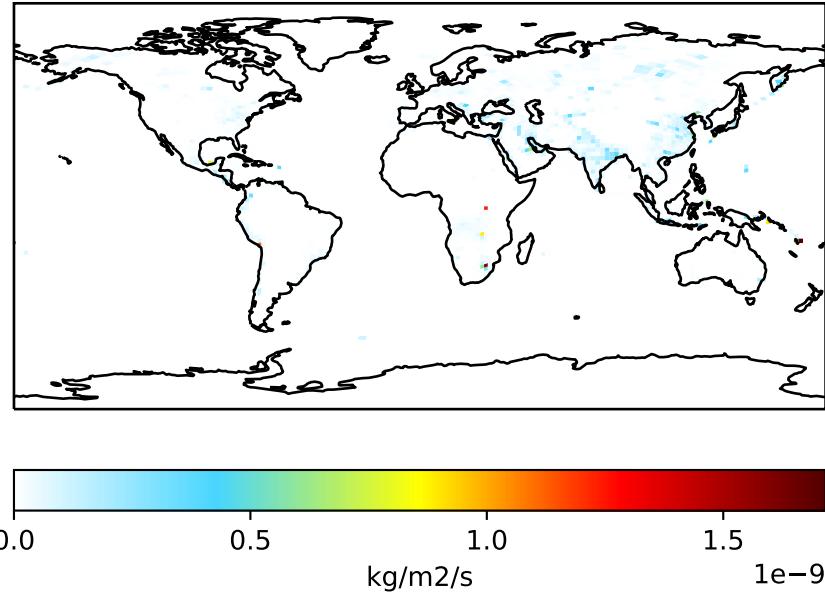


EmisSO2_Total

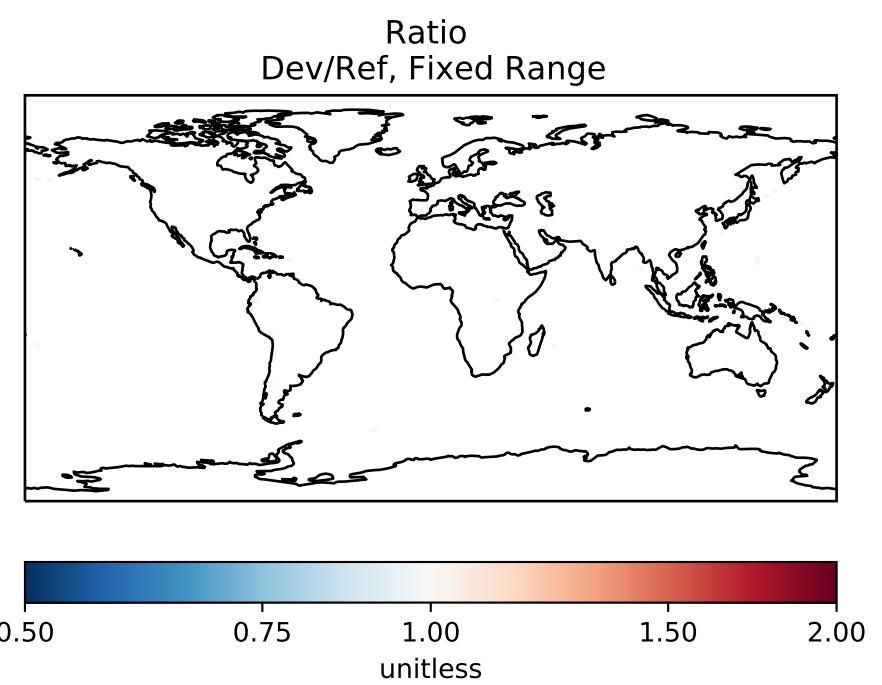
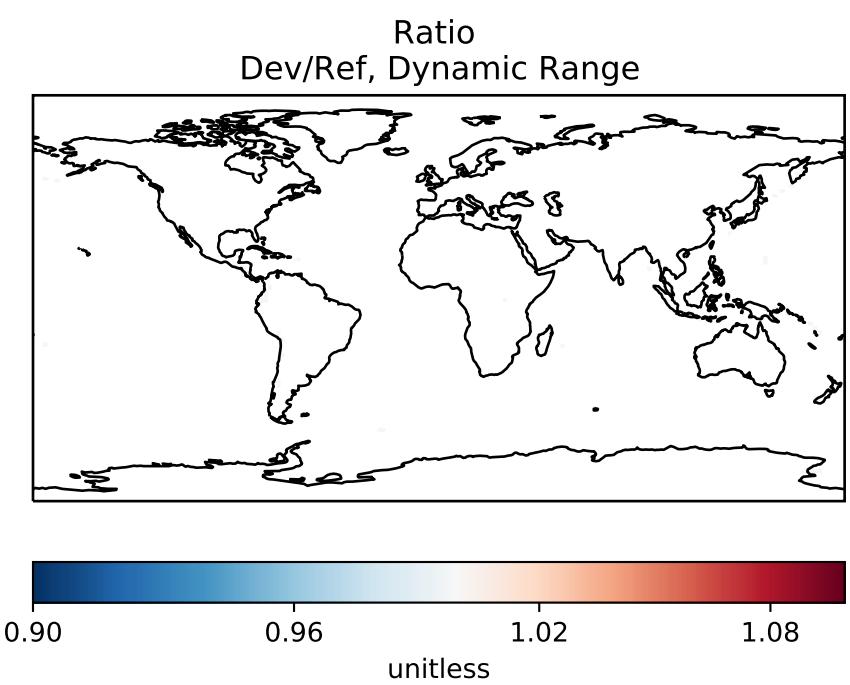
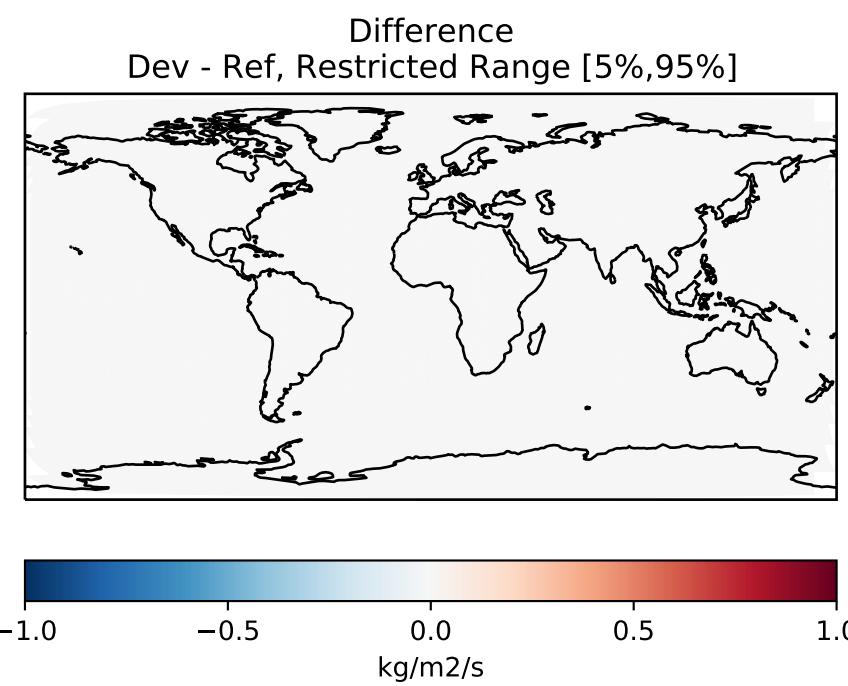
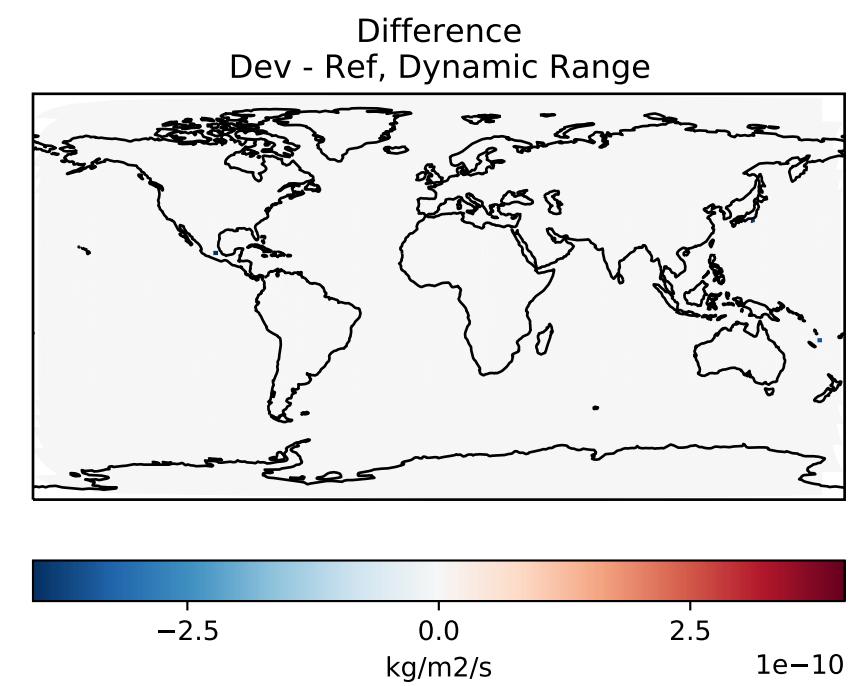
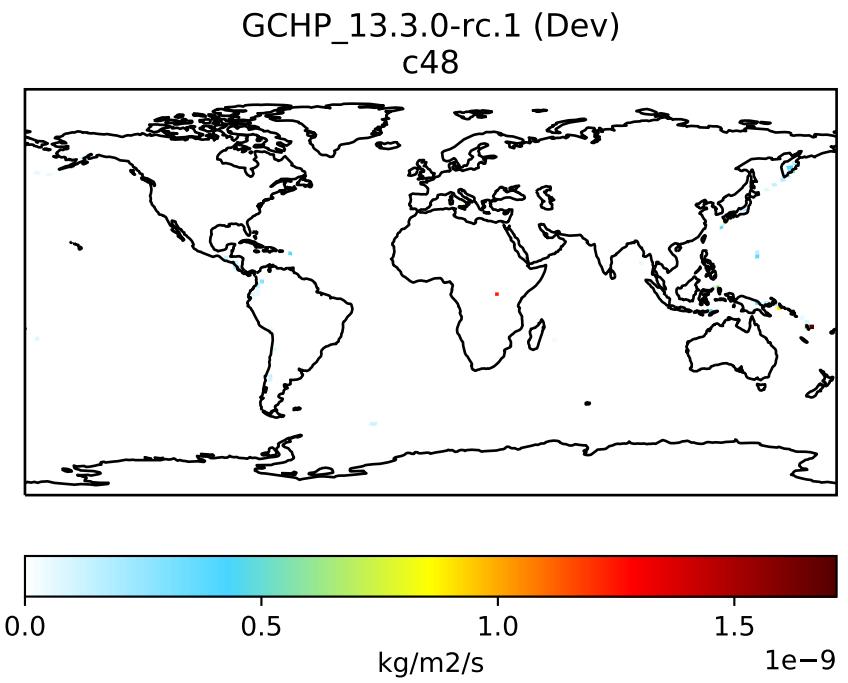
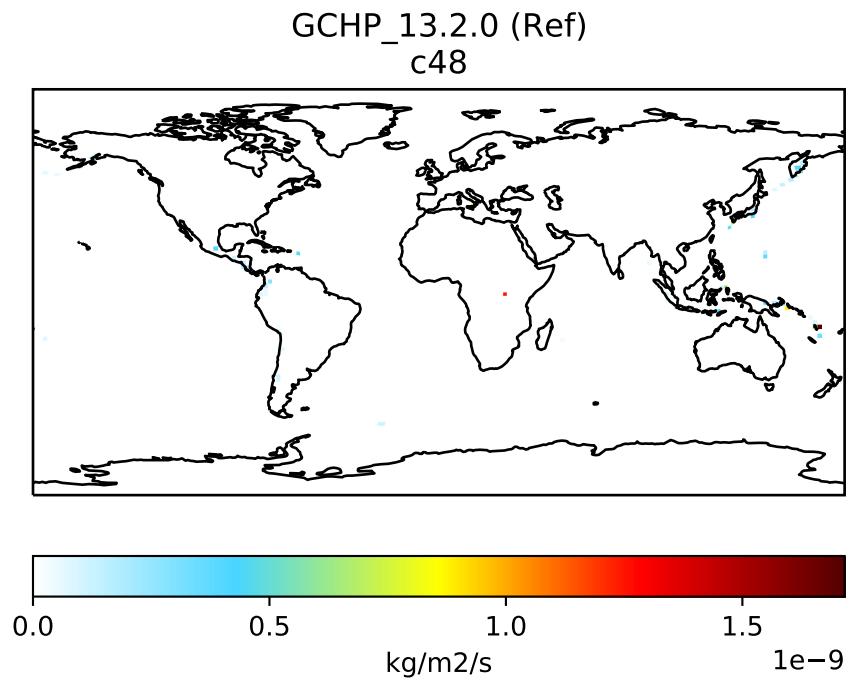
GCHP_13.2.0 (Ref)
c48



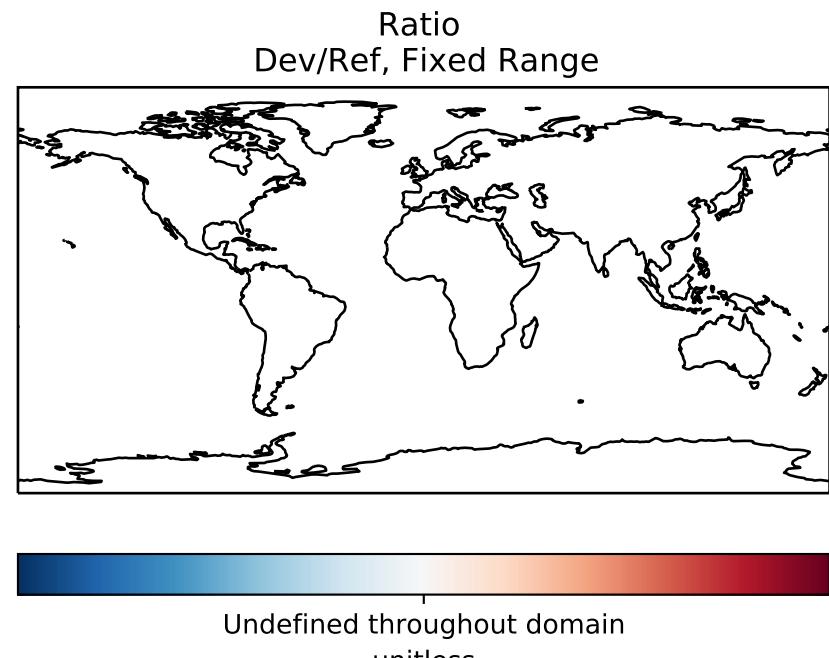
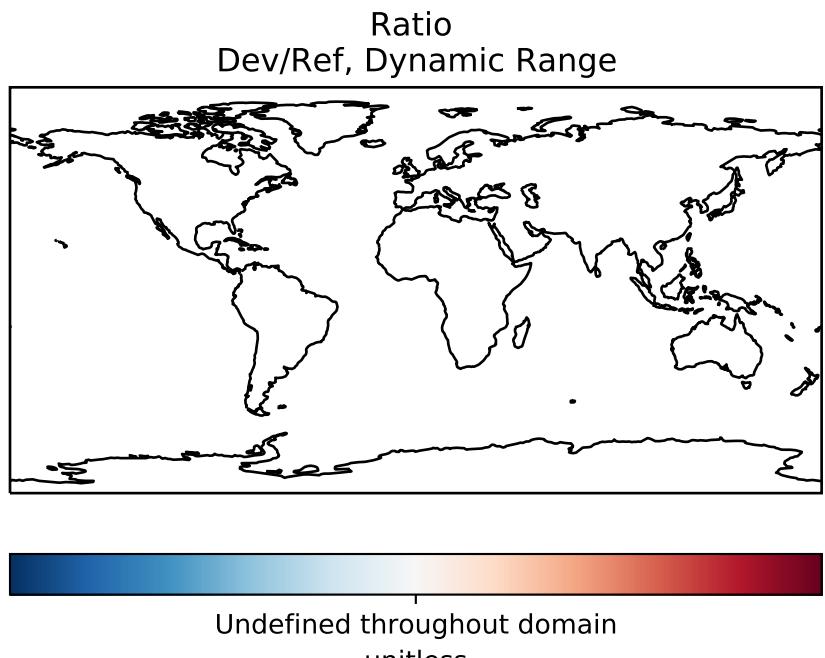
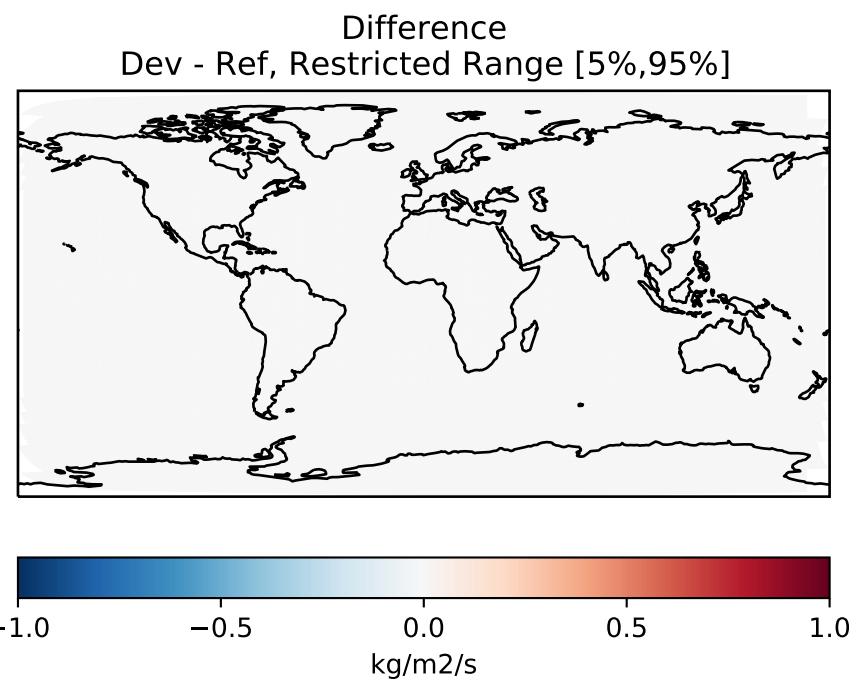
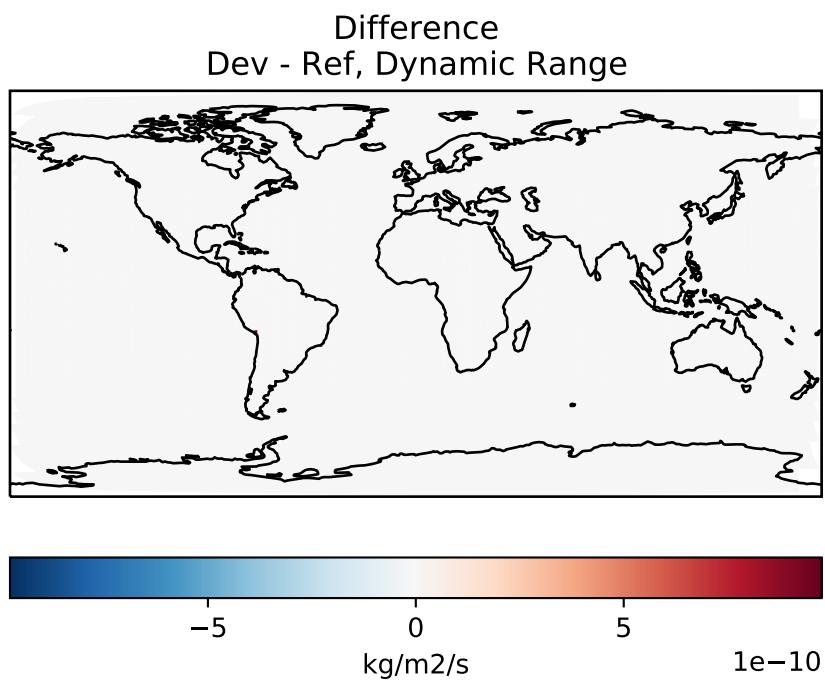
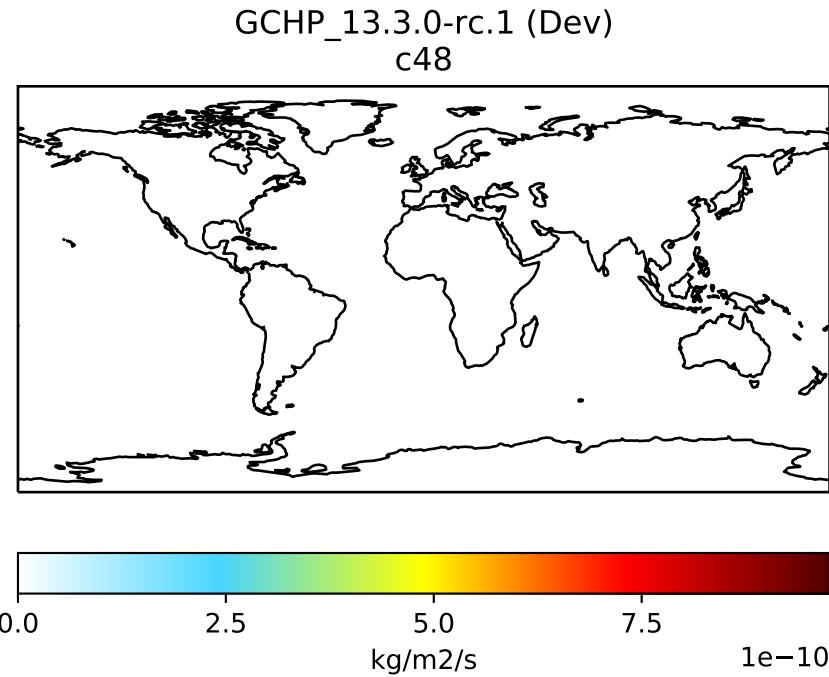
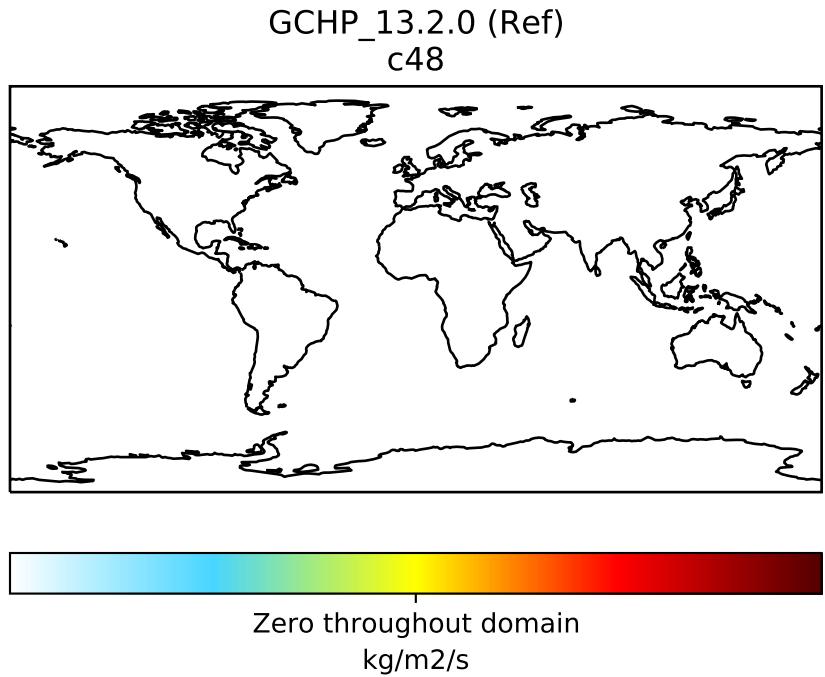
GCHP_13.3.0-rc.1 (Dev)
c48



EmisSO2_VolcDegas

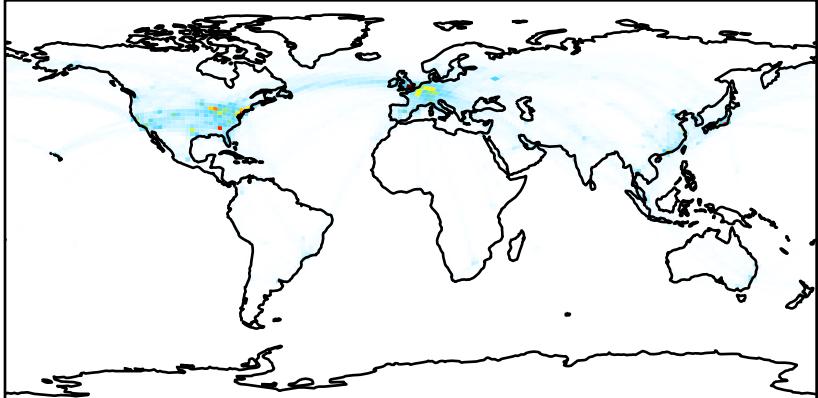


EmisSO2_VolcErupt

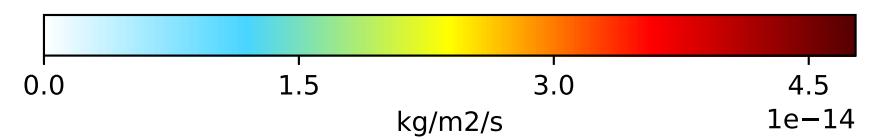
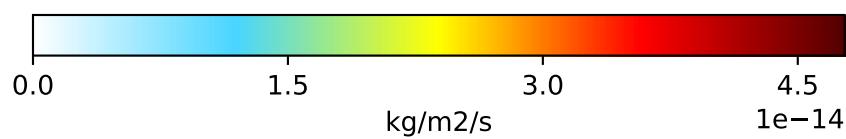
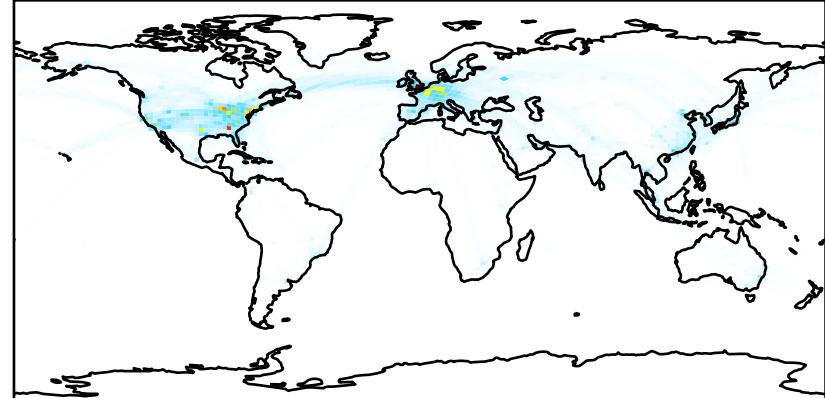


EmisSO4_Aircraft

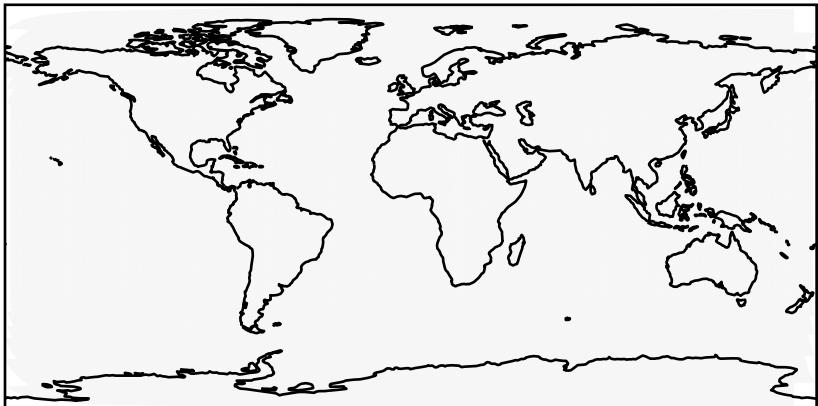
GCHP_13.2.0 (Ref)
c48



GCHP_13.3.0-rc.1 (Dev)
c48

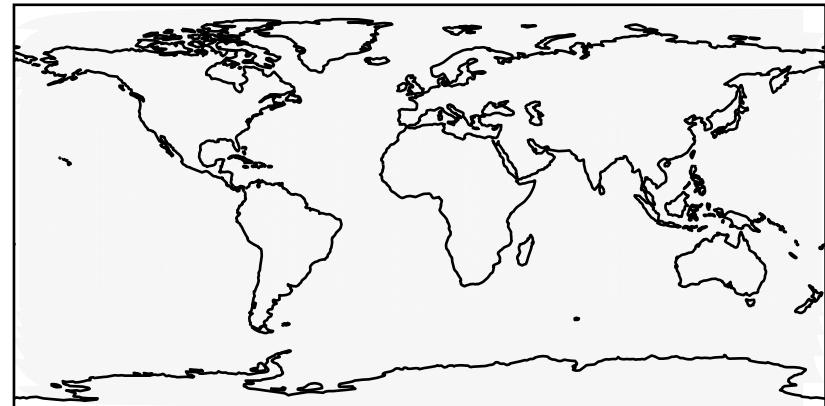


Difference
Dev - Ref, Dynamic Range



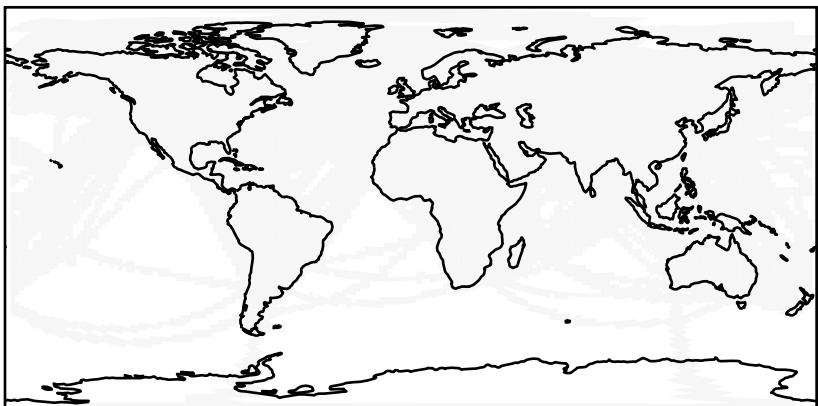
Zero throughout domain
kg/m²/s

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



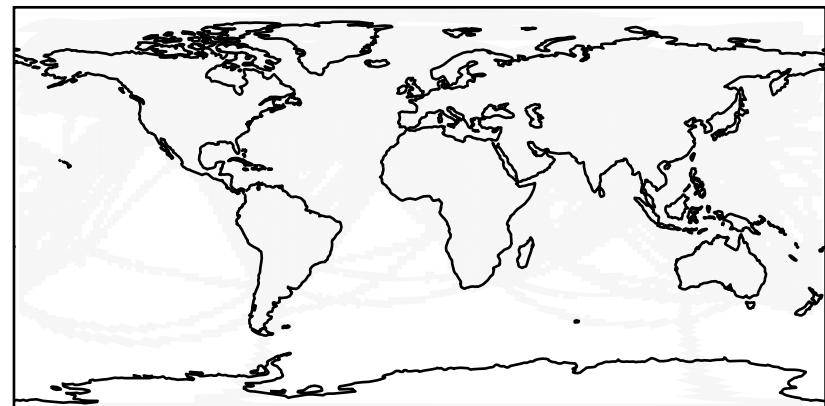
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08
unitless

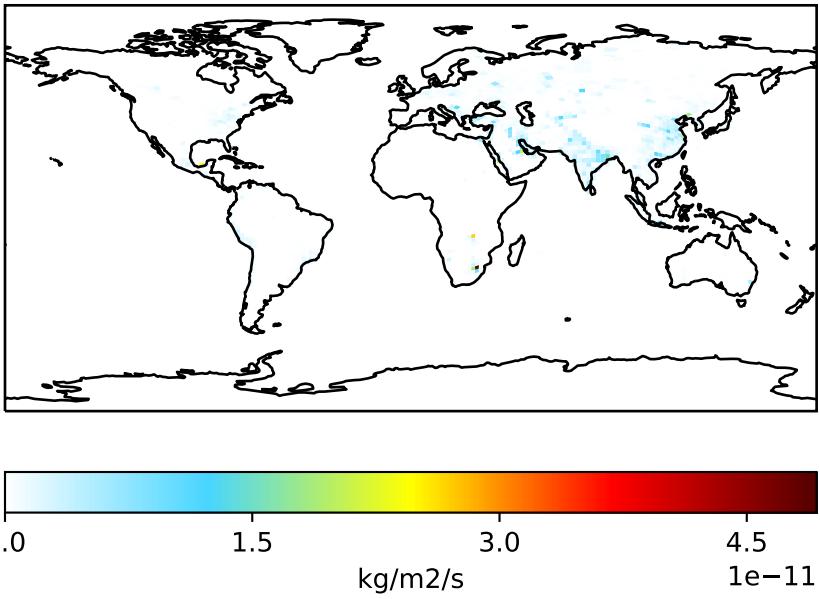
Ratio
Dev/Ref, Fixed Range



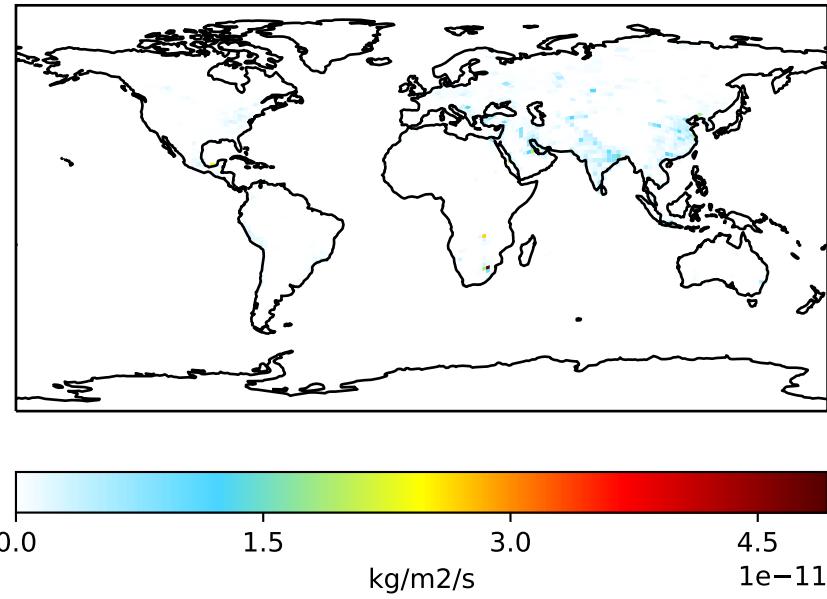
0.50 0.75 1.00 1.50 2.00
unitless

EmisSO4_Anthro

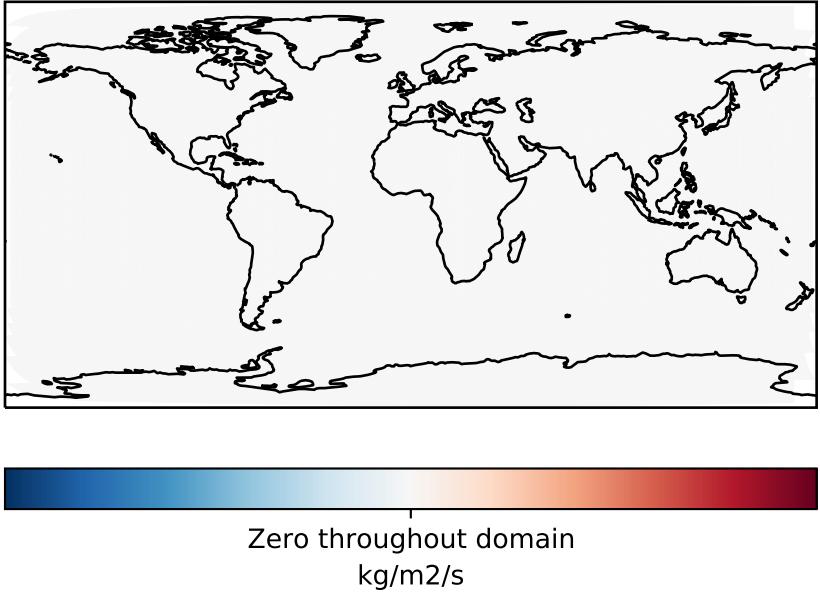
GCHP_13.2.0 (Ref)
c48



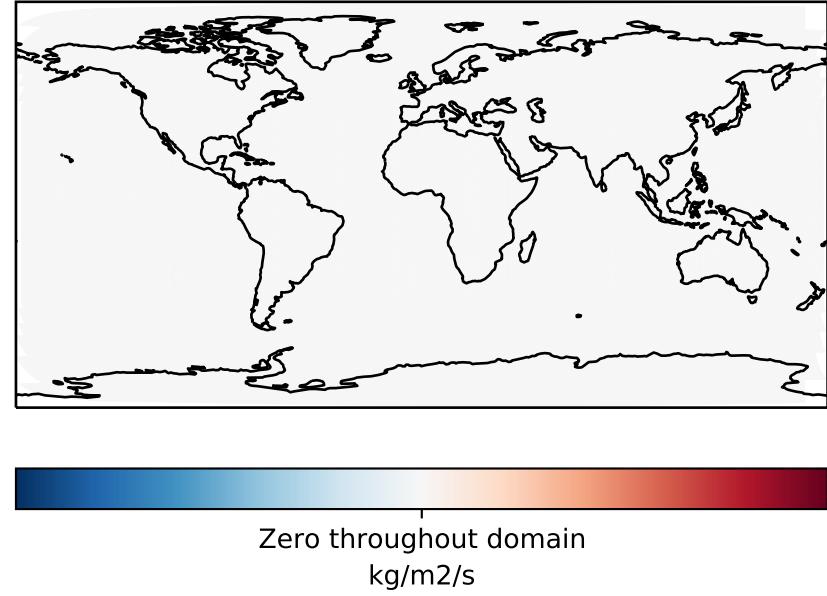
GCHP_13.3.0-rc.1 (Dev)
c48



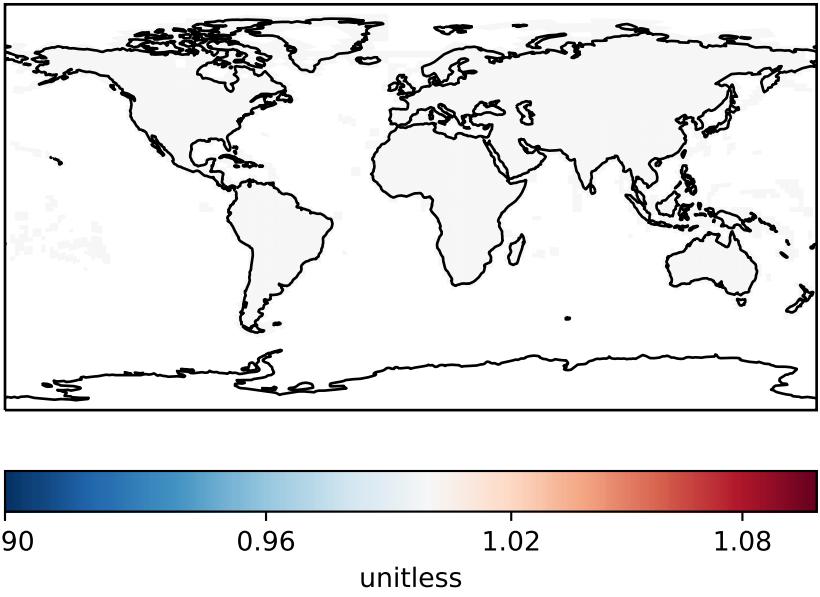
Difference
Dev - Ref, Dynamic Range



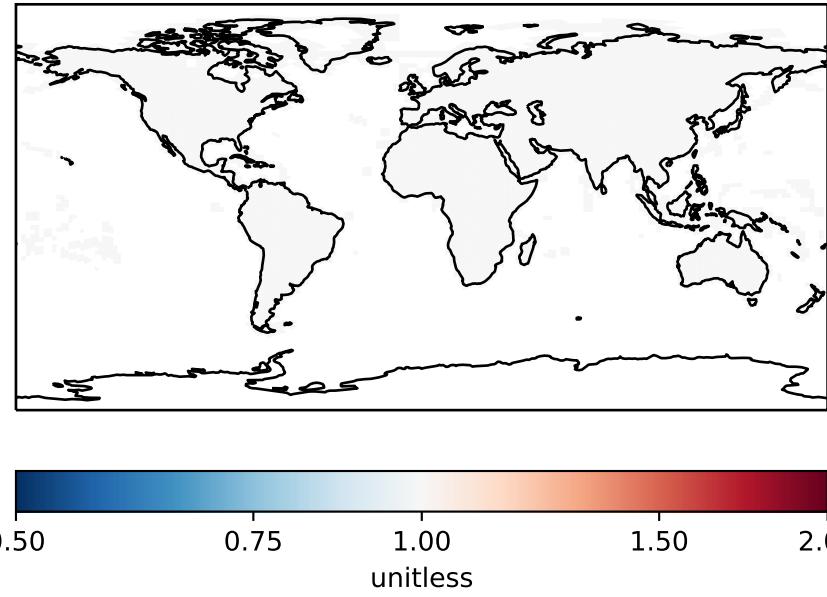
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

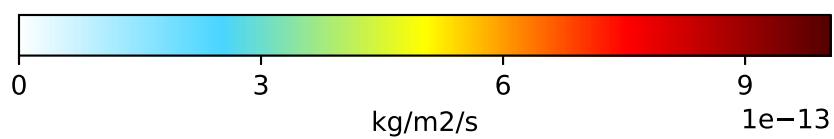
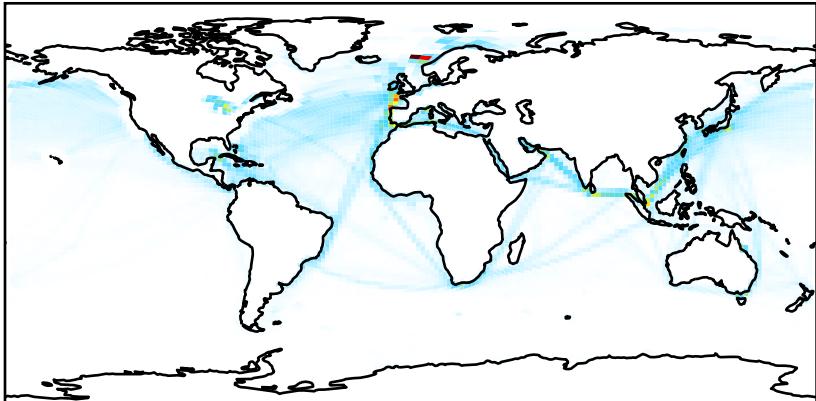


Ratio
Dev/Ref, Fixed Range

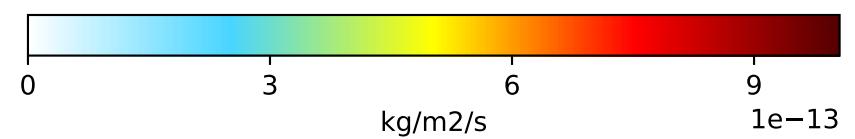
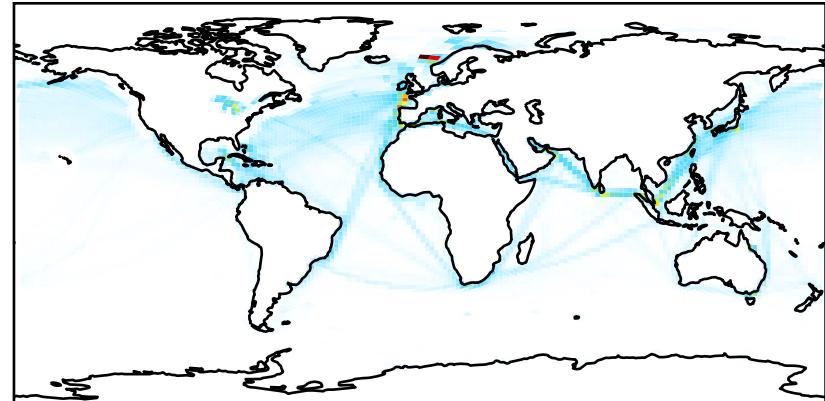


EmisSO4_Ship

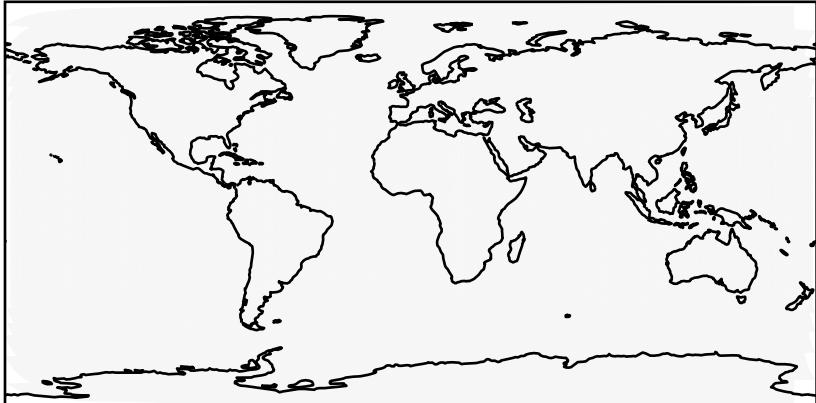
GCHP_13.2.0 (Ref)
c48



GCHP_13.3.0-rc.1 (Dev)
c48

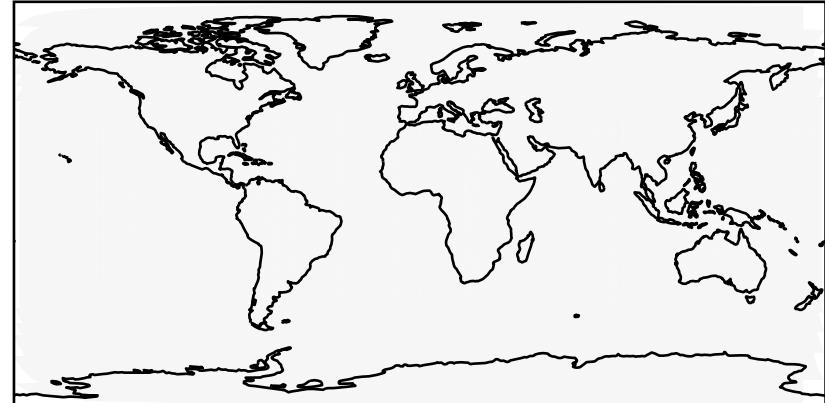


Difference
Dev - Ref, Dynamic Range



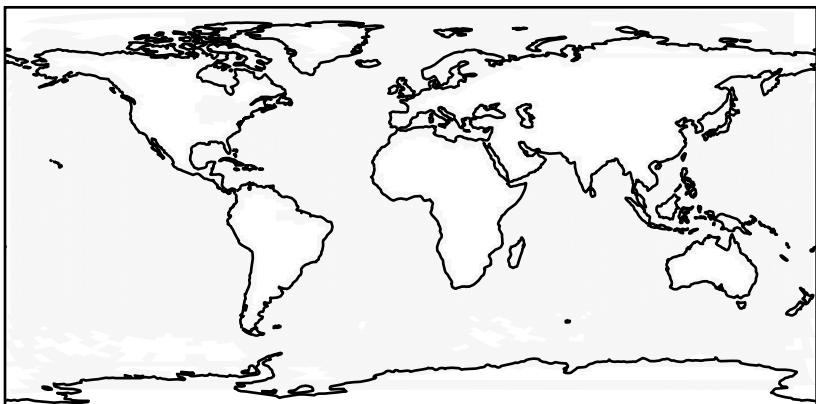
Zero throughout domain
kg/m²/s

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



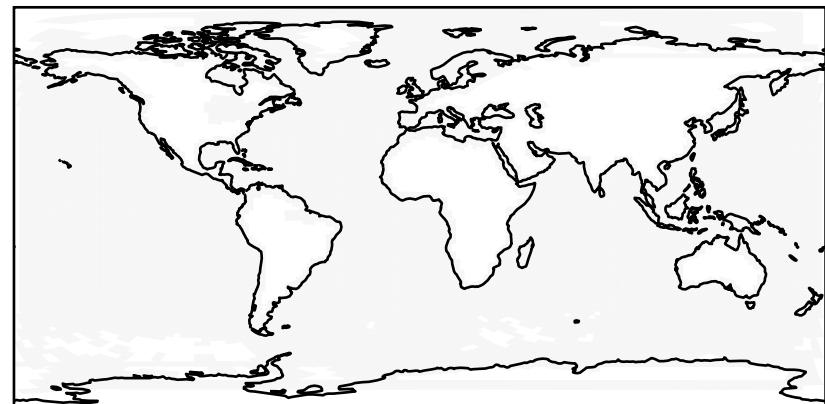
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08
unitless

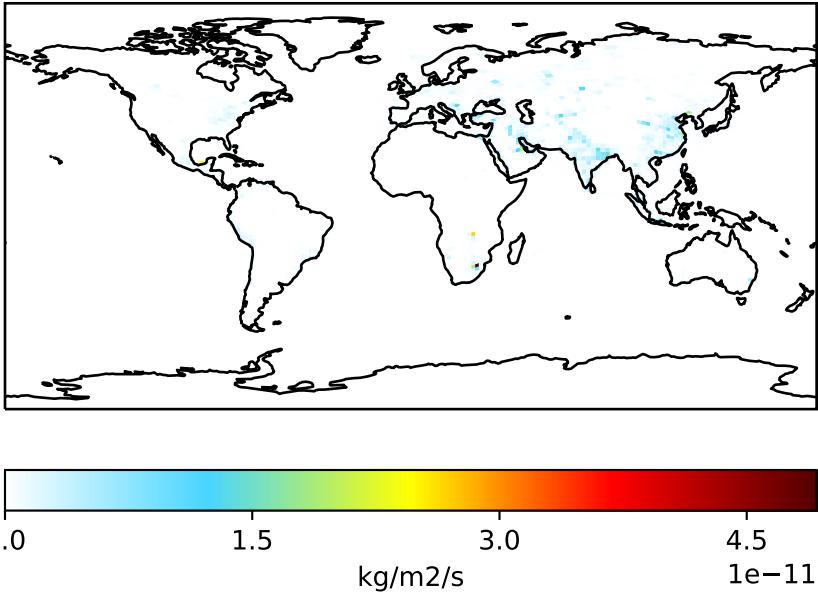
Ratio
Dev/Ref, Fixed Range



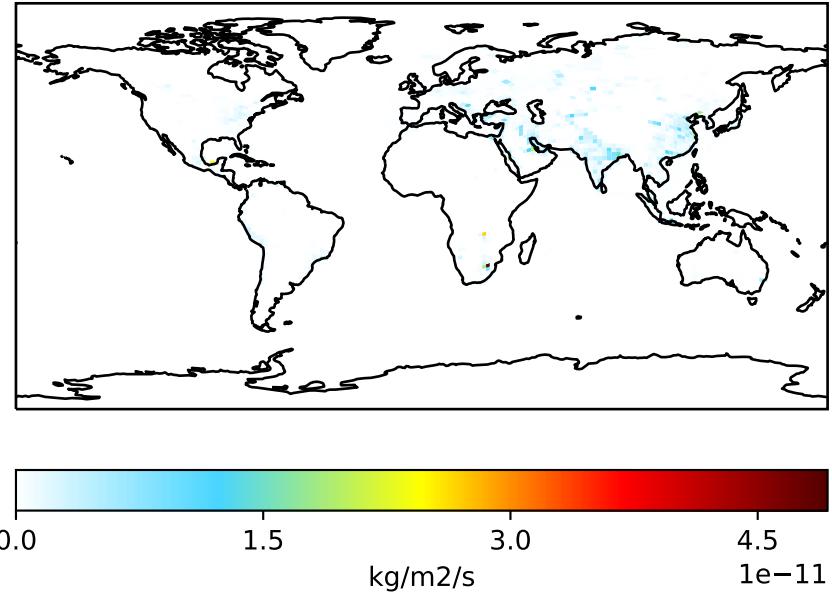
0.50 0.75 1.00 1.50 2.00
unitless

EmisSO4_Total

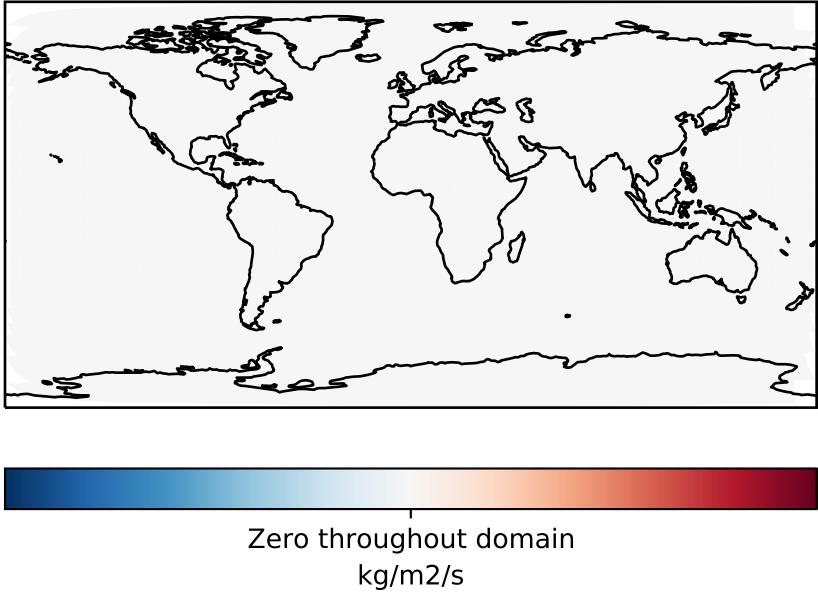
GCHP_13.2.0 (Ref)
c48



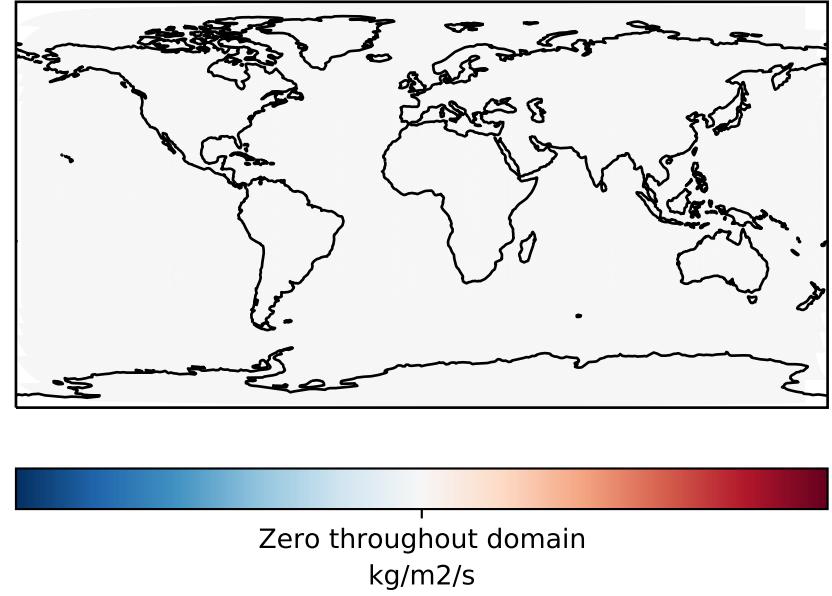
GCHP_13.3.0-rc.1 (Dev)
c48



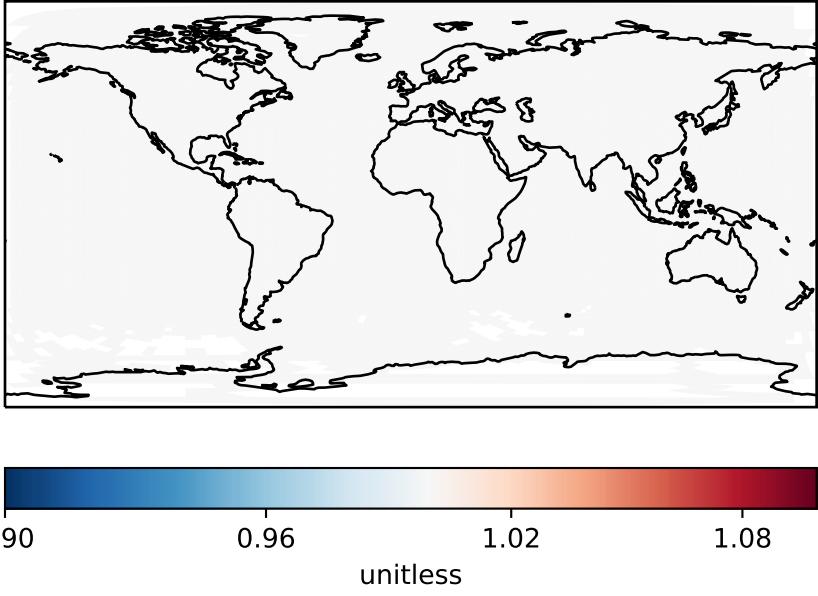
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

