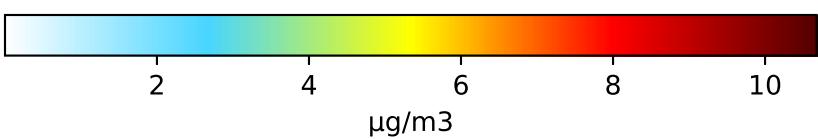
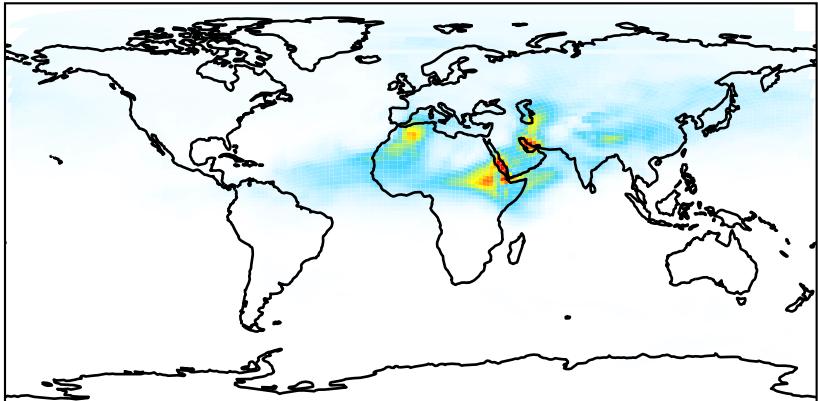
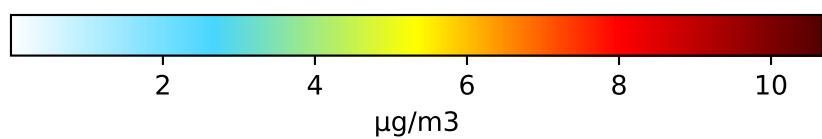
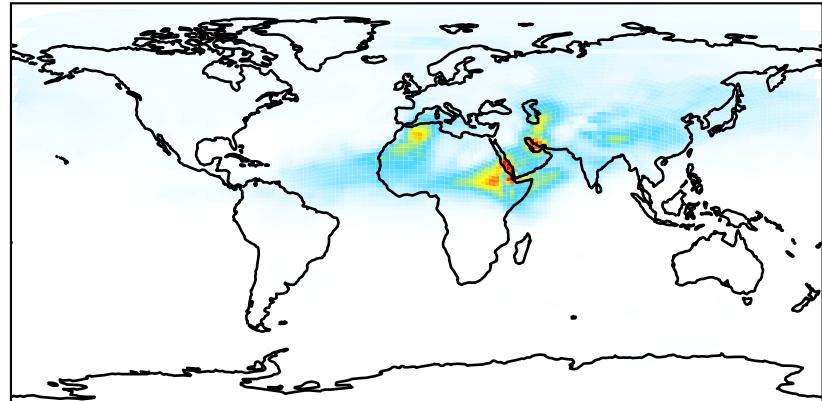


# SpeciesConc\_DST1

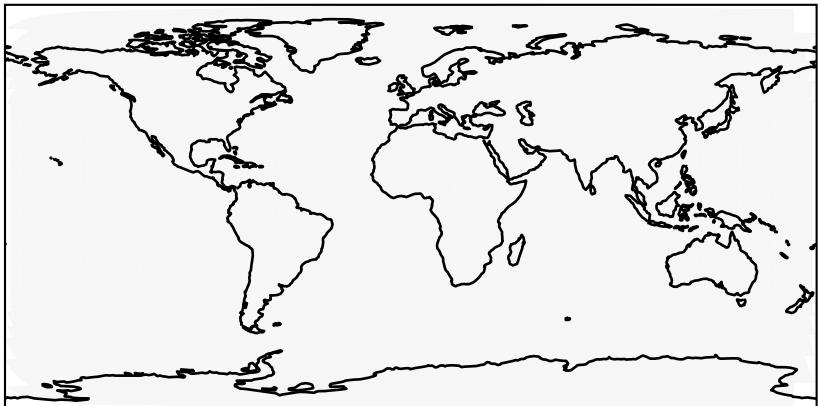
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

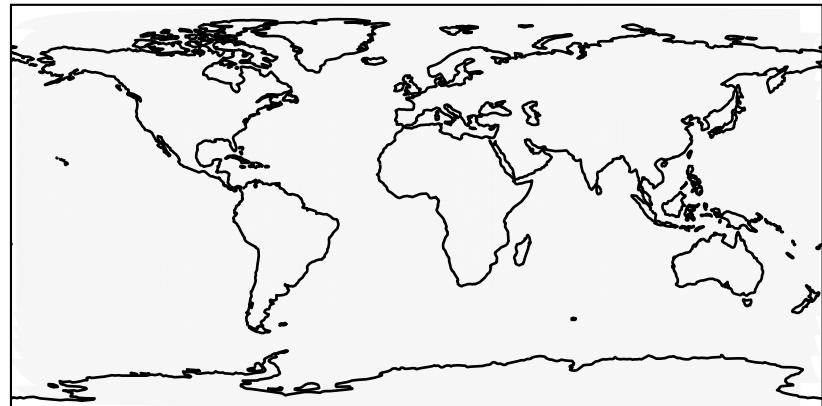


Difference  
Dev - Ref, Dynamic Range



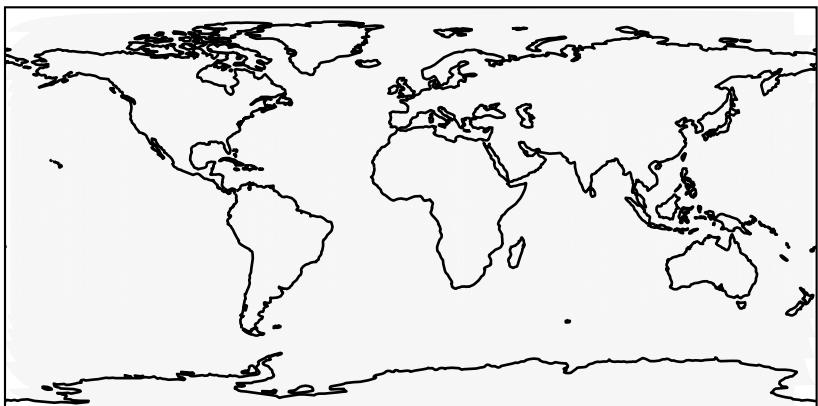
Zero throughout domain  
µg/m<sup>3</sup>

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



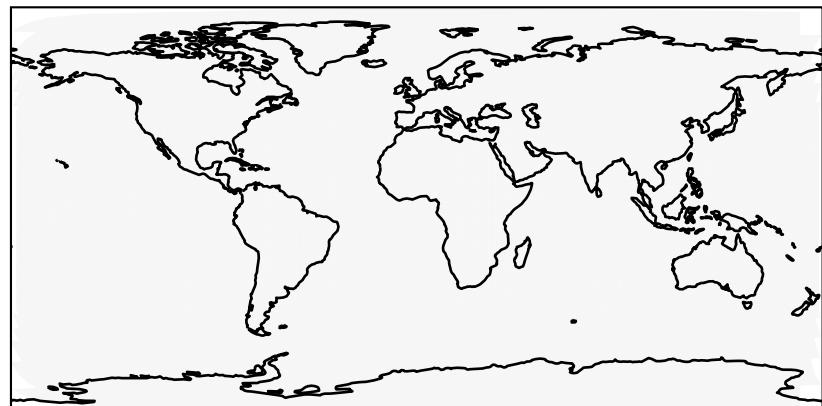
Zero throughout domain  
µg/m<sup>3</sup>

Ratio  
Dev/Ref, Dynamic Range



10<sup>0</sup>  
unitless

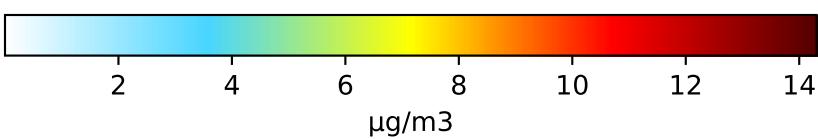
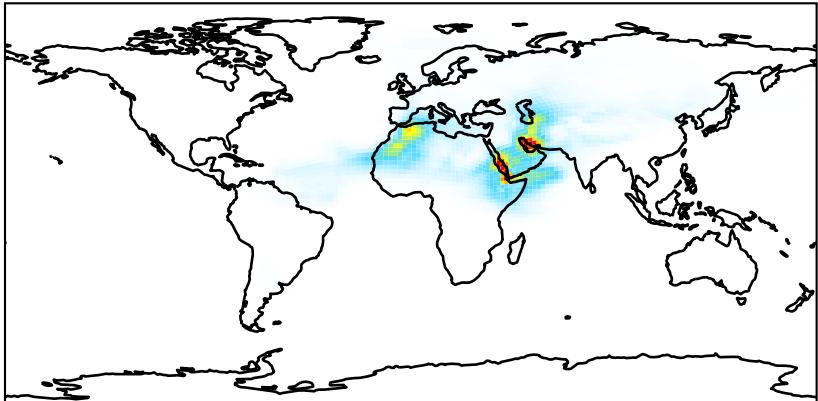
Ratio  
Dev/Ref, Fixed Range



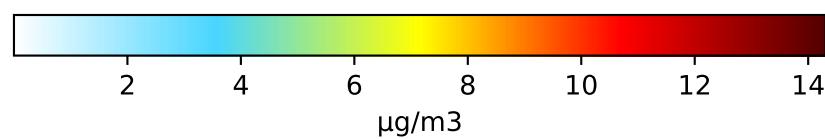
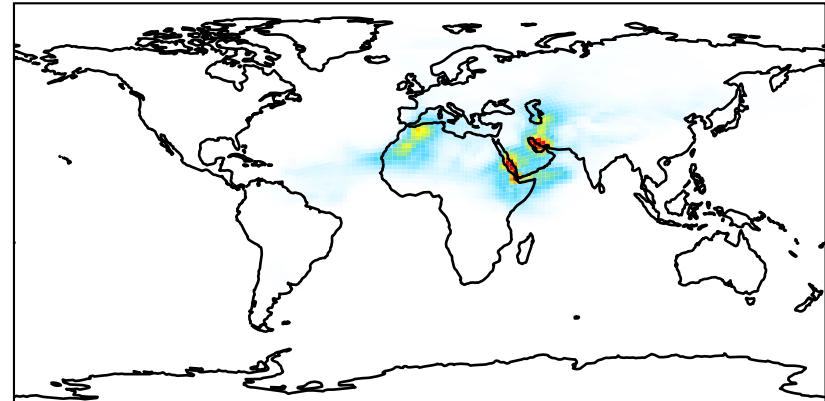
10<sup>0</sup>  
unitless

# SpeciesConc\_DST2

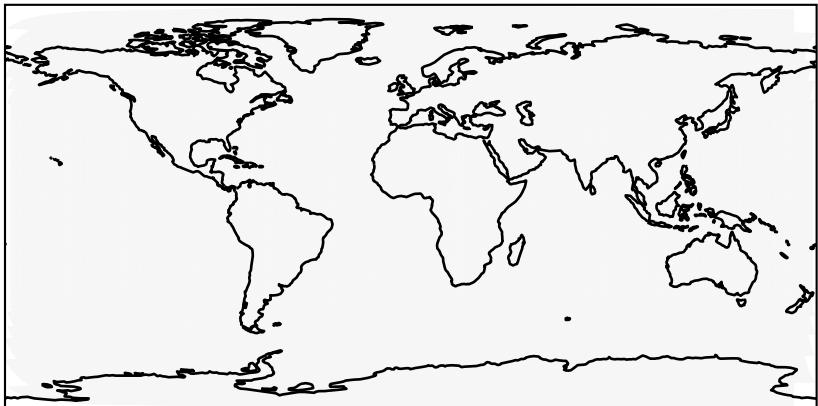
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

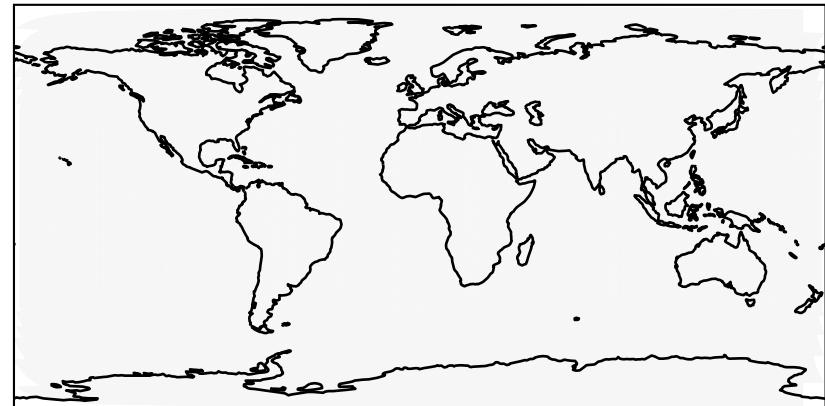


Difference  
Dev - Ref, Dynamic Range



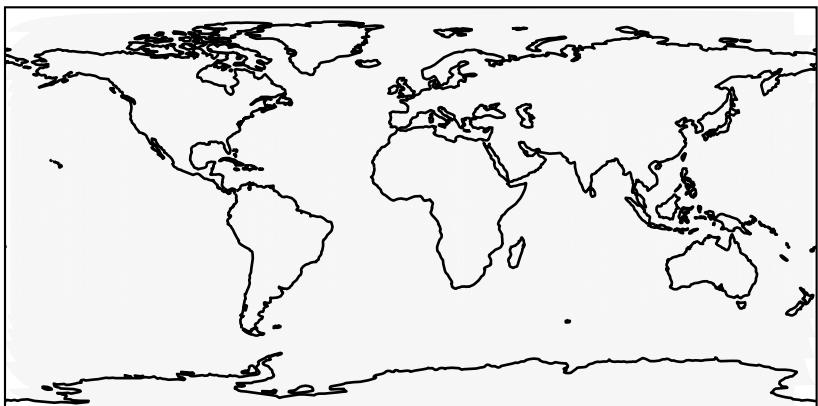
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



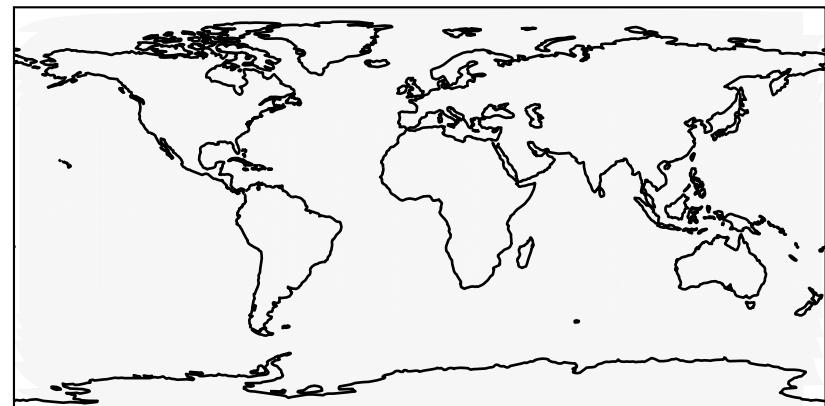
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

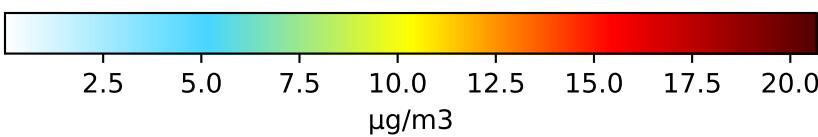
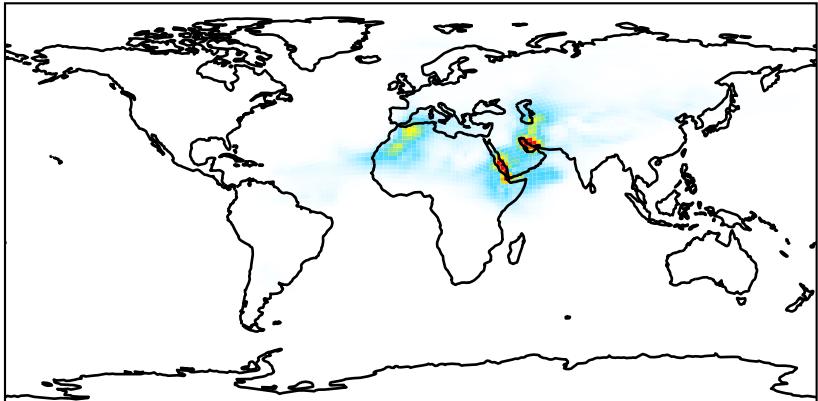
Ratio  
Dev/Ref, Fixed Range



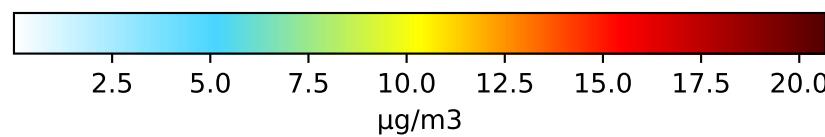
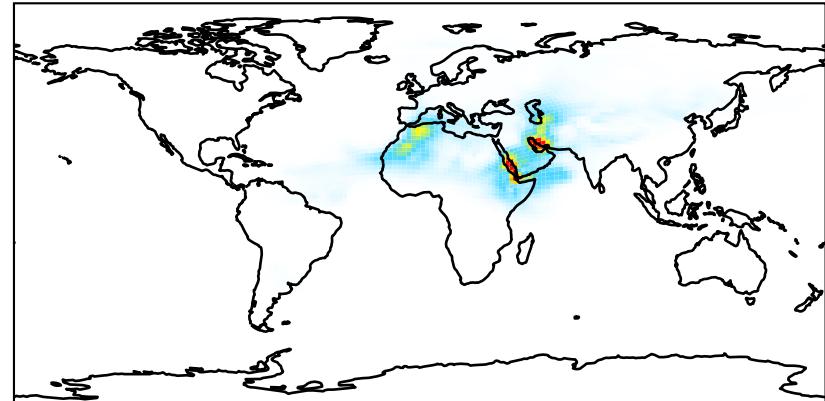
$10^0$   
unitless

# SpeciesConc\_DST3

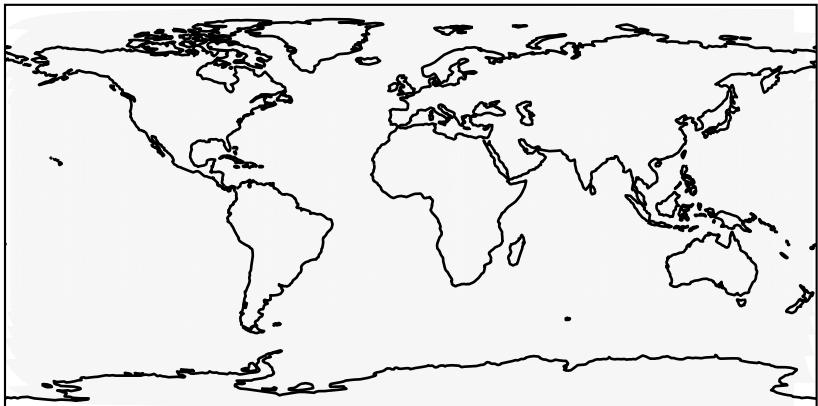
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

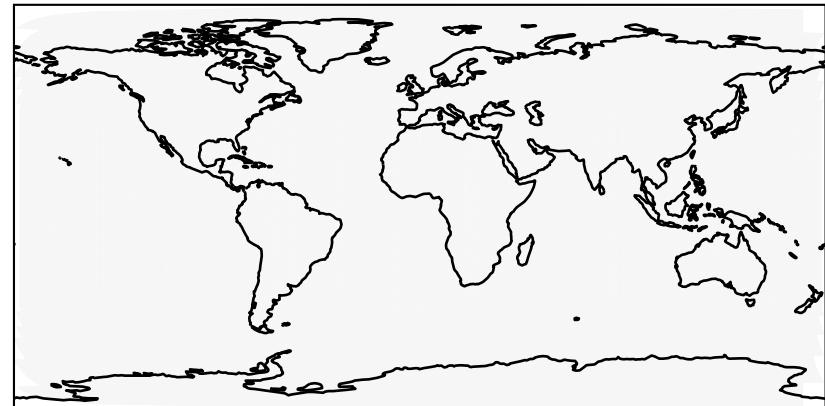


Difference  
Dev - Ref, Dynamic Range



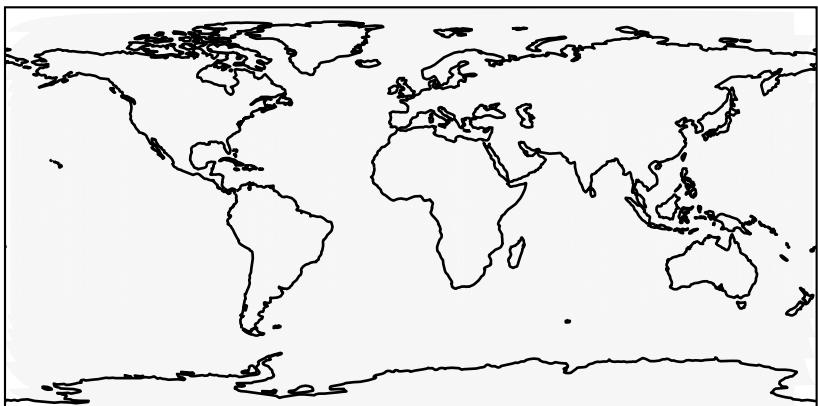
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



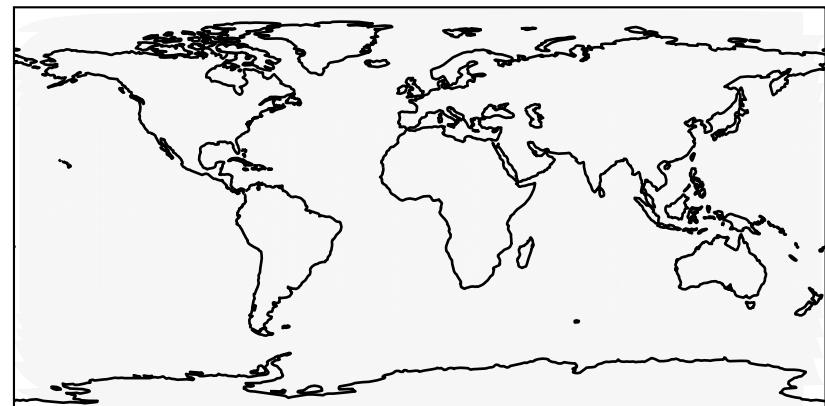
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

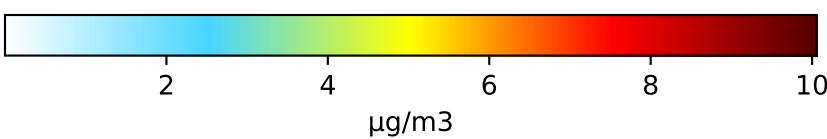
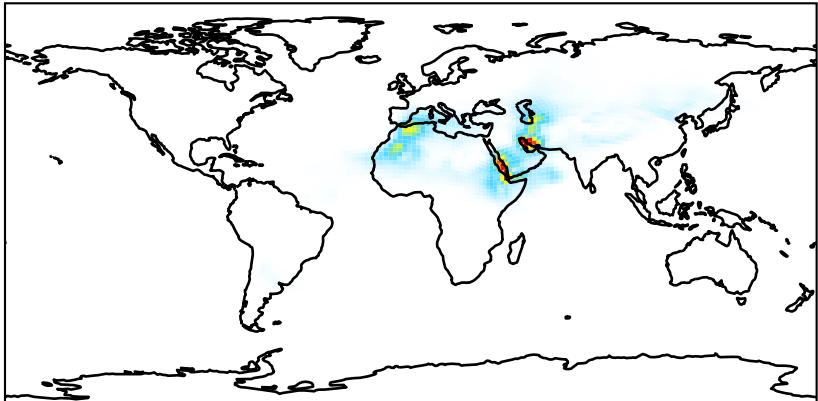
Ratio  
Dev/Ref, Fixed Range



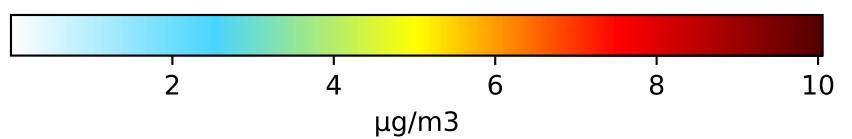
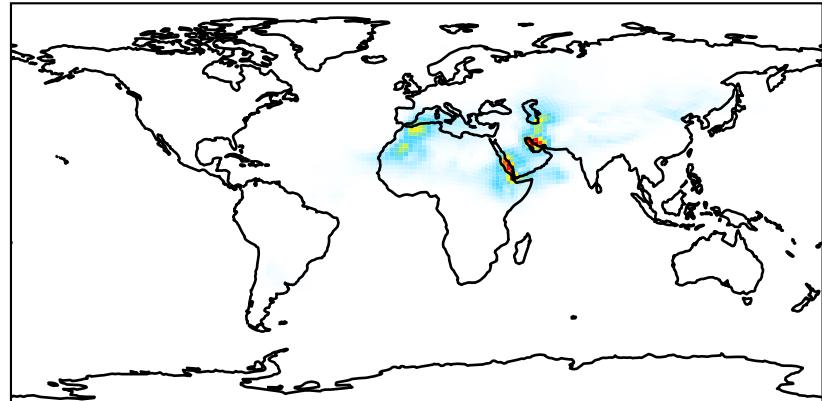
$10^0$   
unitless

# SpeciesConc\_DST4

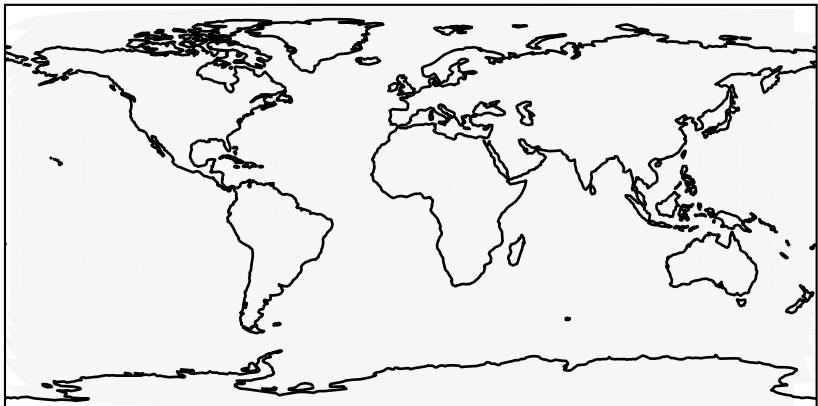
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

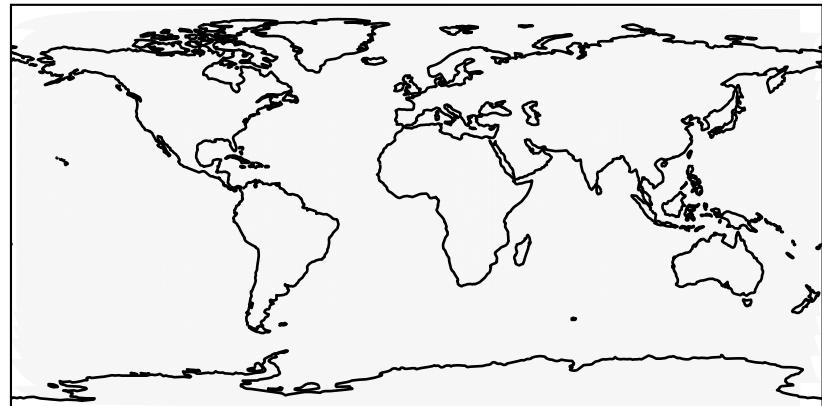


Difference  
Dev - Ref, Dynamic Range



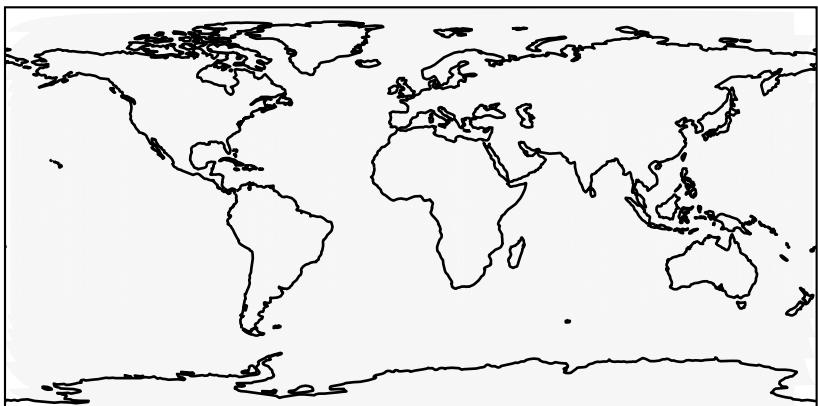
Zero throughout domain  
µg/m<sup>3</sup>

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



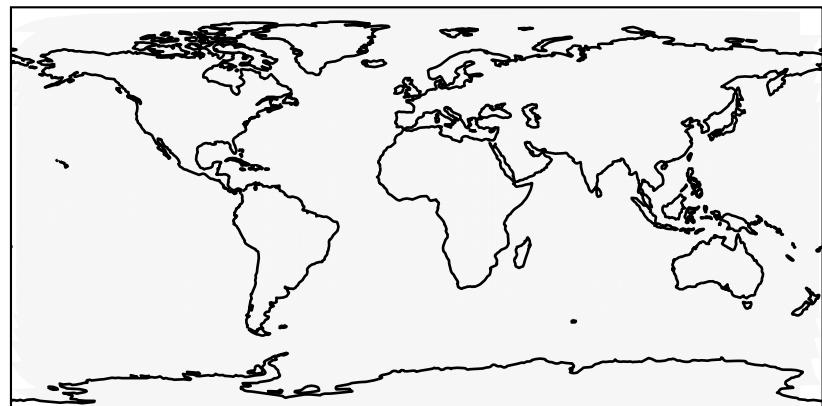
Zero throughout domain  
µg/m<sup>3</sup>

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

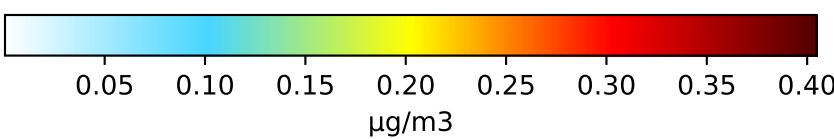
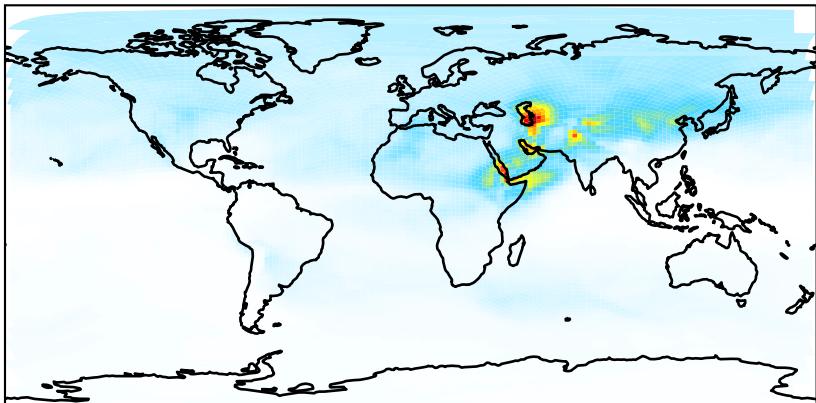
Ratio  
Dev/Ref, Fixed Range



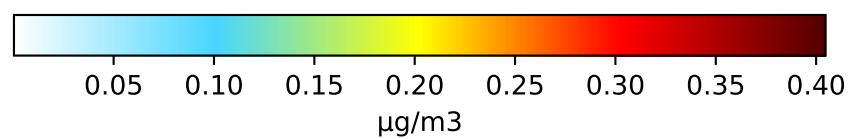
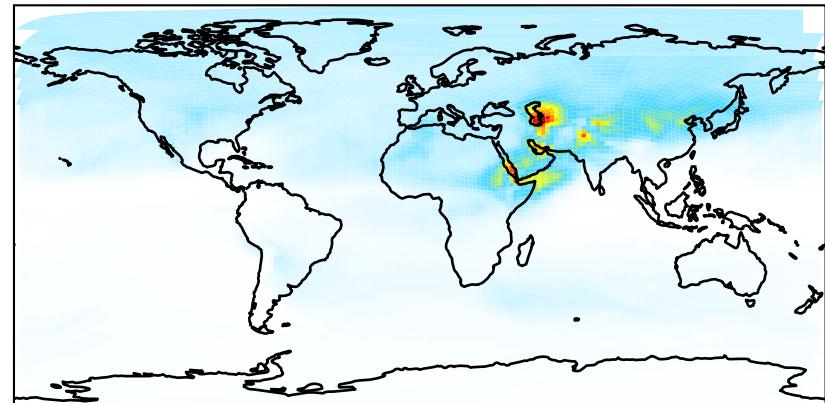
$10^0$   
unitless

# SpeciesConc\_NH4

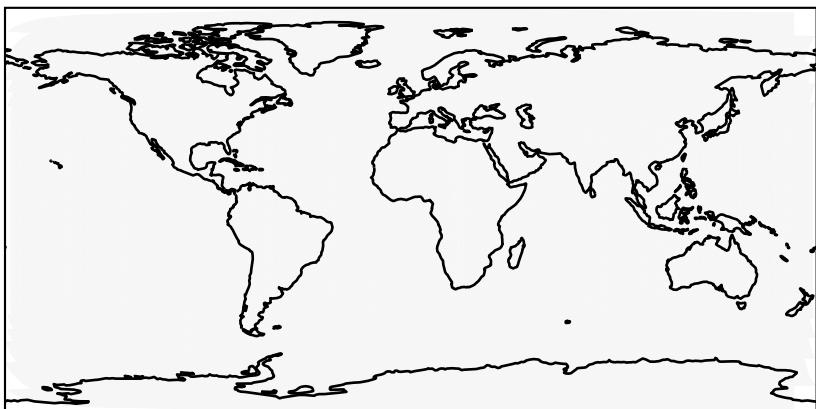
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

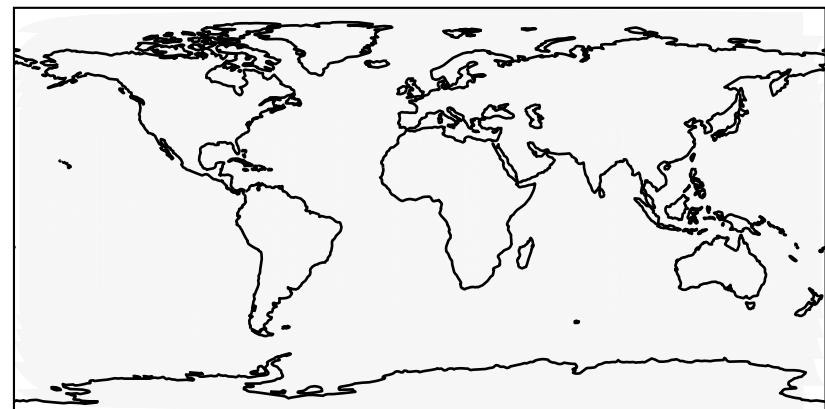


Difference  
Dev - Ref, Dynamic Range



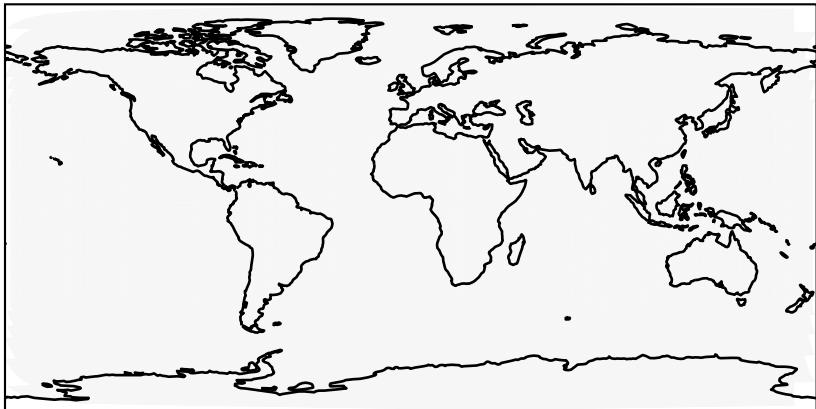
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



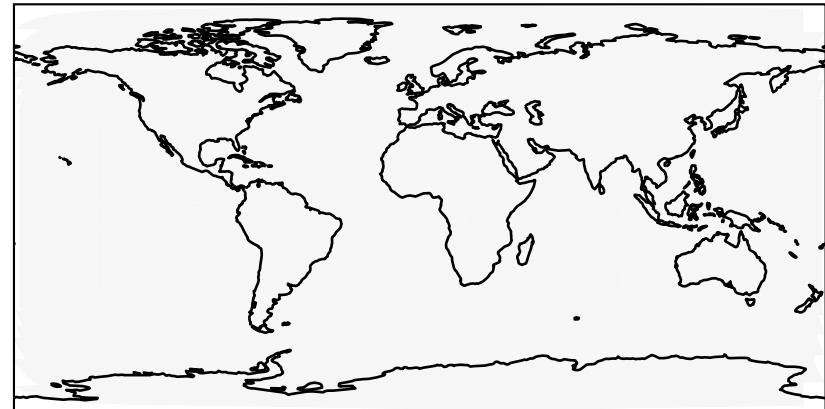
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

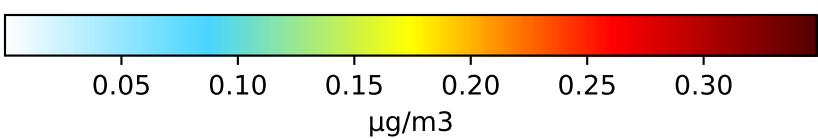
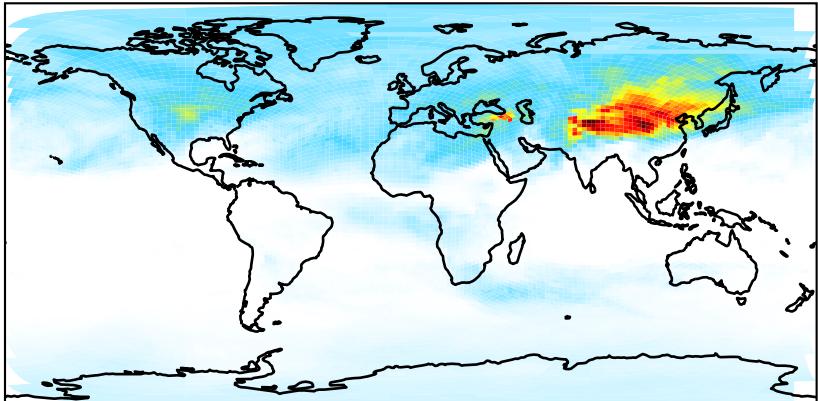
Ratio  
Dev/Ref, Fixed Range



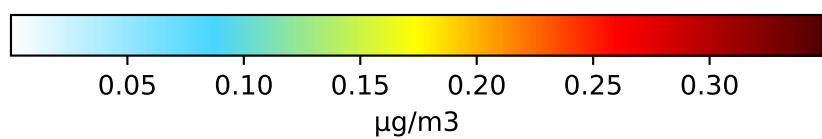
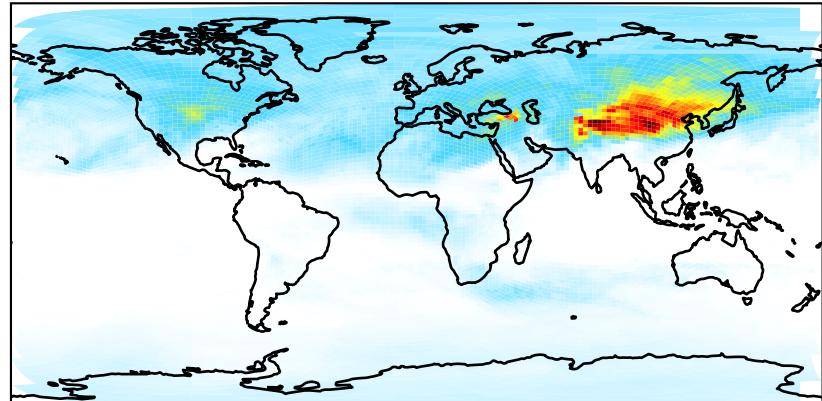
$10^0$   
unitless

# SpeciesConc\_NIT

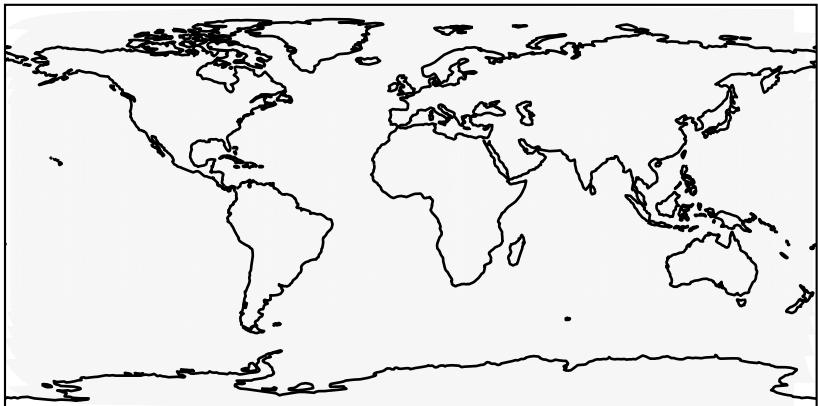
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

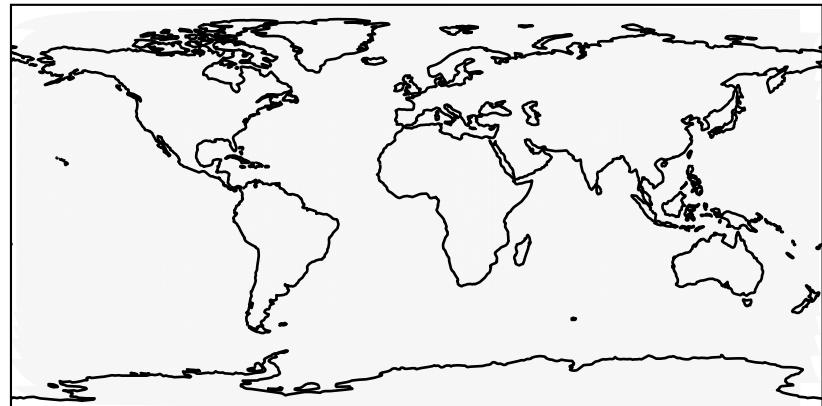


Difference  
Dev - Ref, Dynamic Range



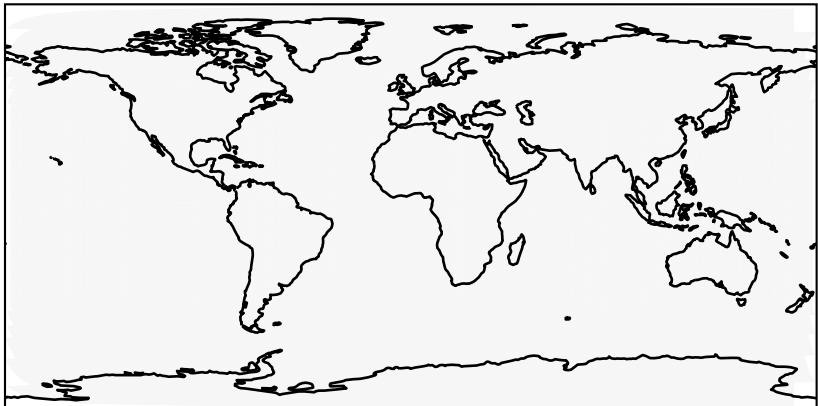
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



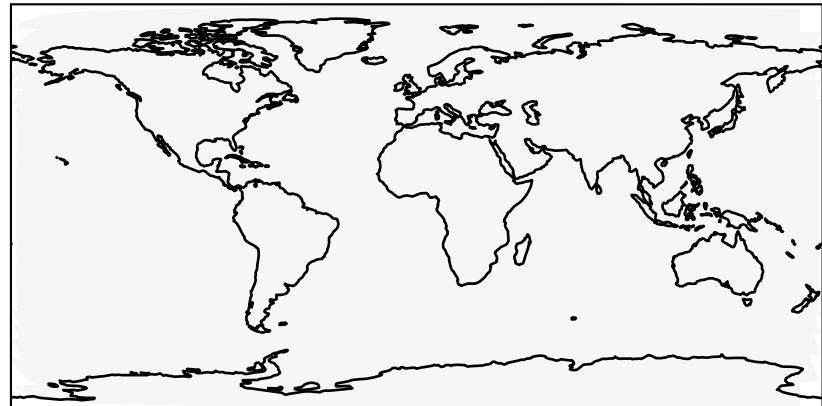
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

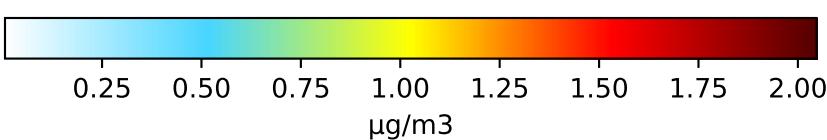
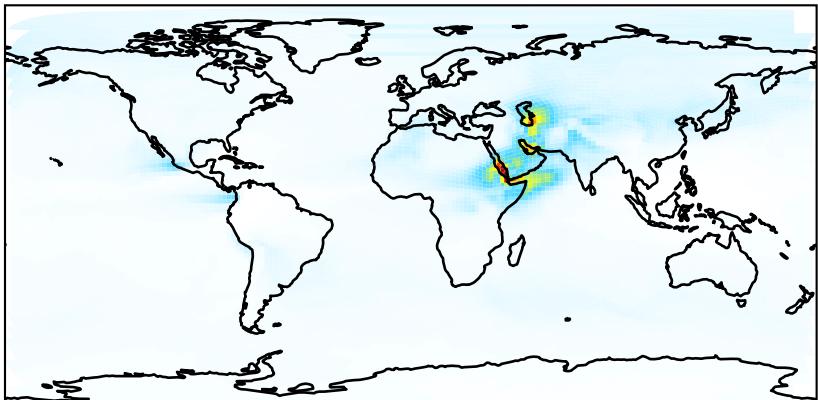
Ratio  
Dev/Ref, Fixed Range



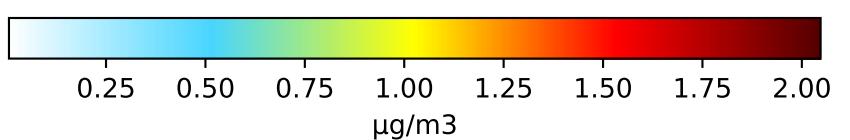
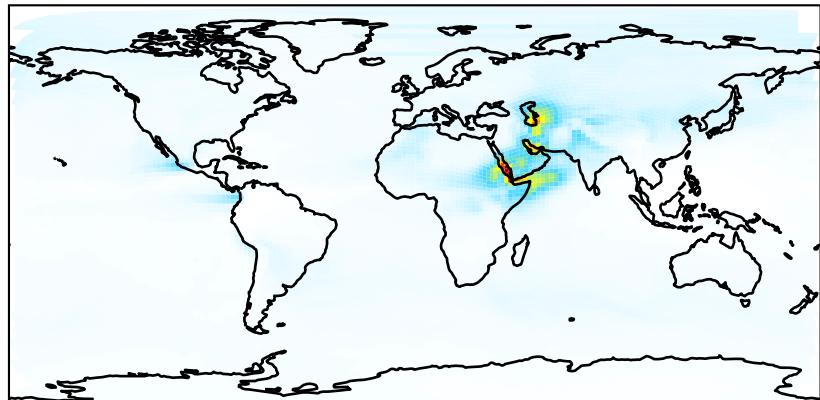
$10^0$   
unitless

# SpeciesConc\_SO4

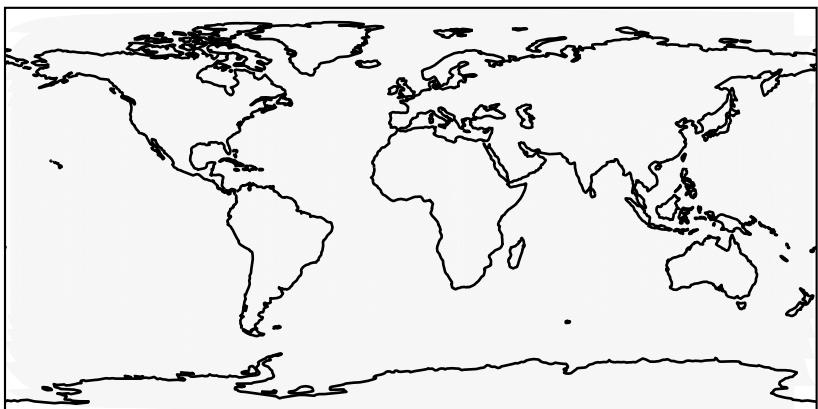
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

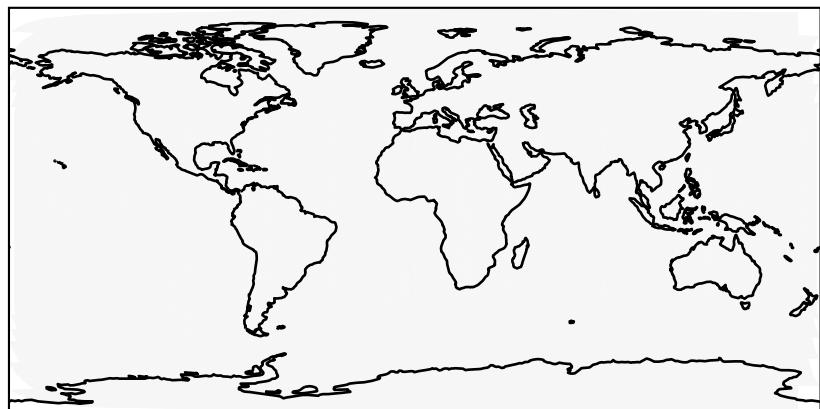


Difference  
Dev - Ref, Dynamic Range



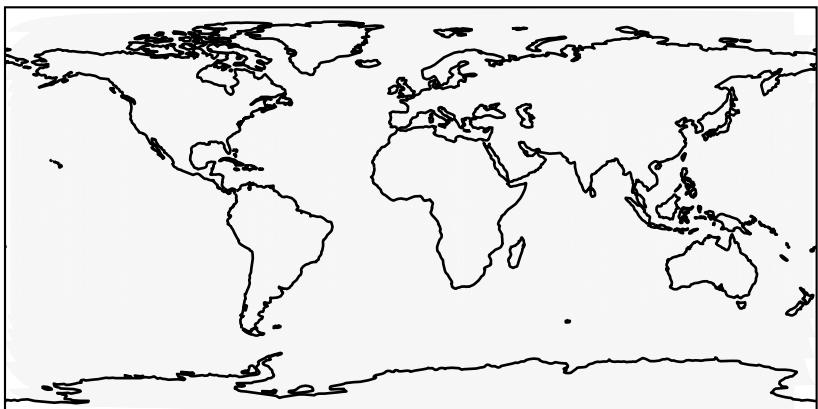
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



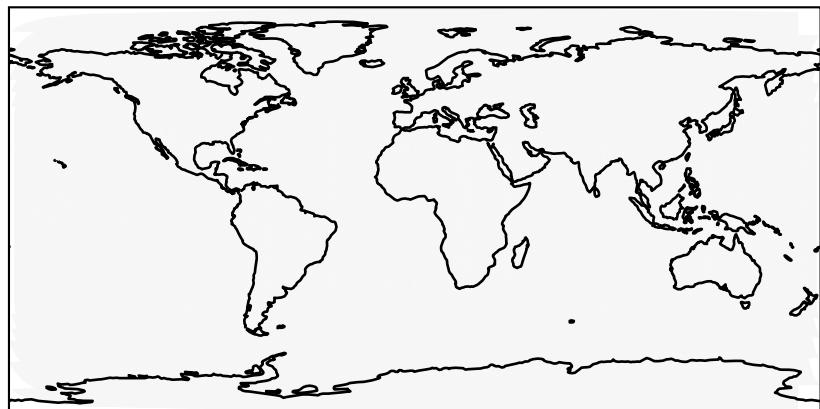
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

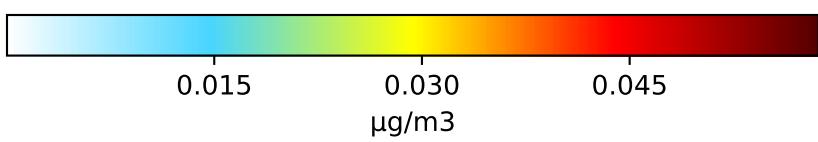
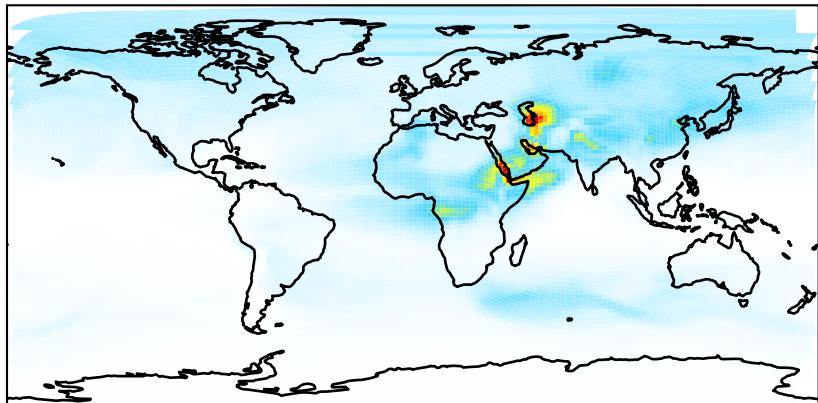
Ratio  
Dev/Ref, Fixed Range



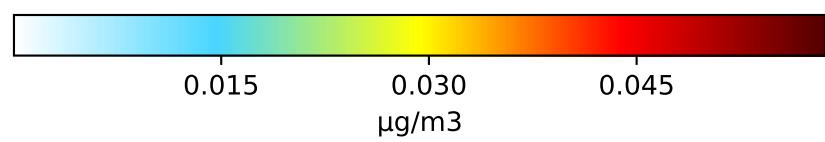
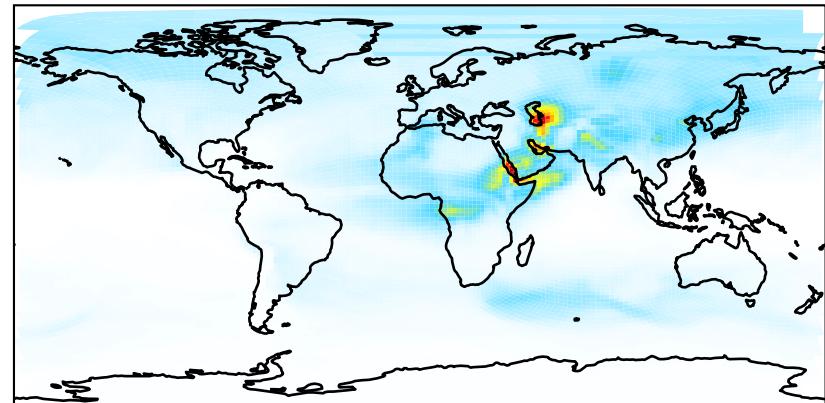
$10^0$   
unitless

# SpeciesConc\_BCPI

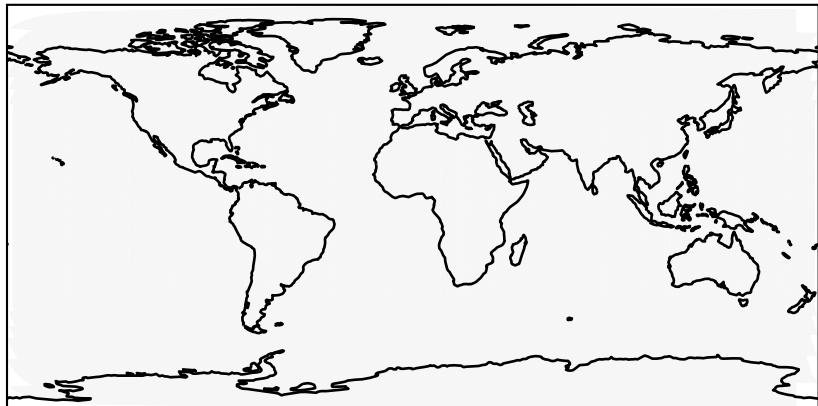
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

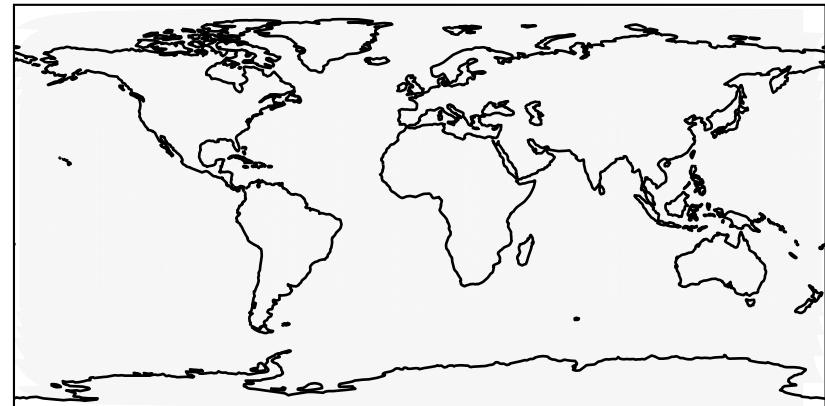


Difference  
Dev - Ref, Dynamic Range



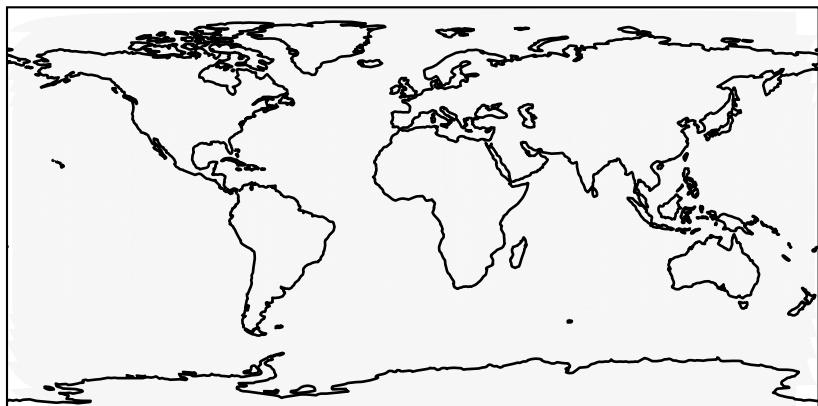
Zero throughout domain  
μg/m<sup>3</sup>

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



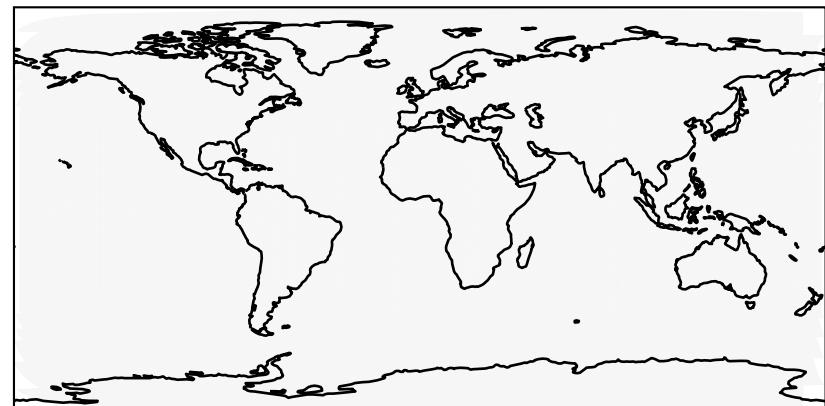
Zero throughout domain  
μg/m<sup>3</sup>

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

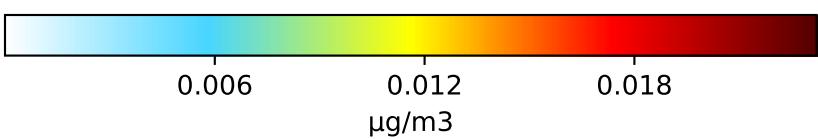
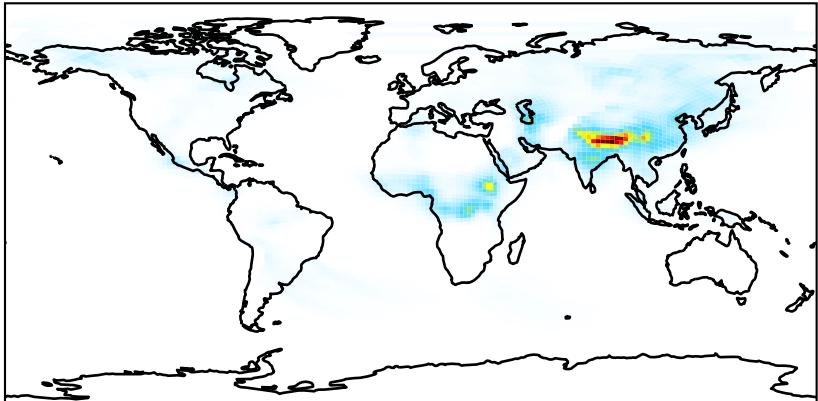
Ratio  
Dev/Ref, Fixed Range



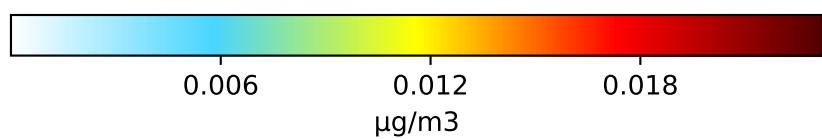
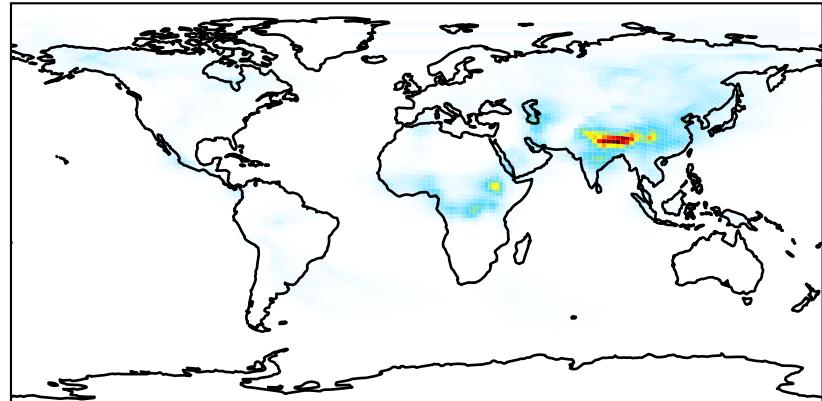
$10^0$   
unitless

# SpeciesConc\_BCPo

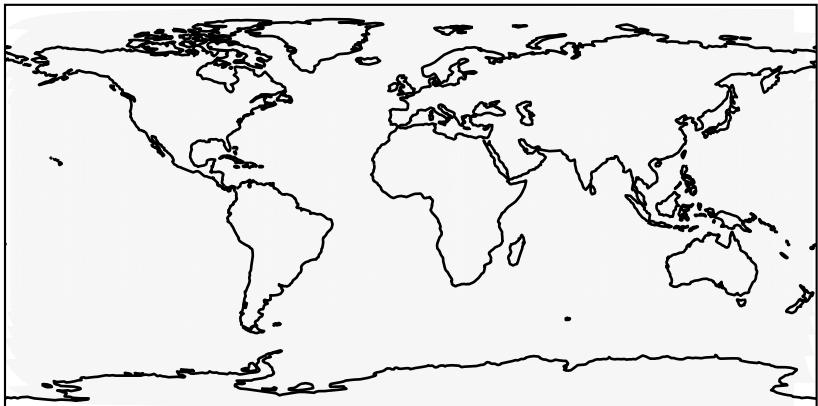
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

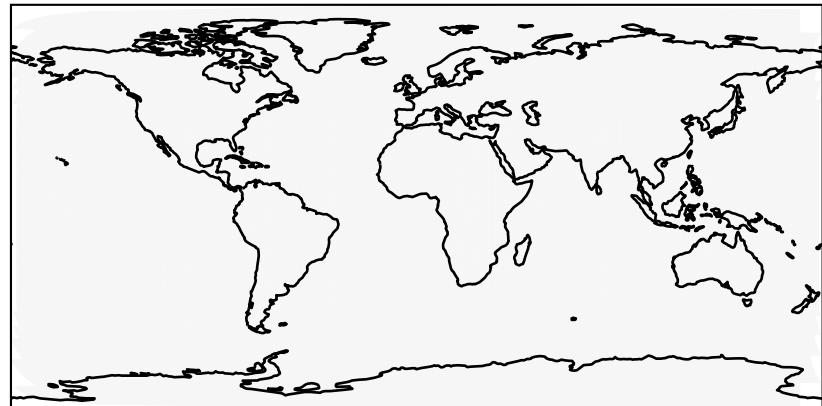


Difference  
Dev - Ref, Dynamic Range



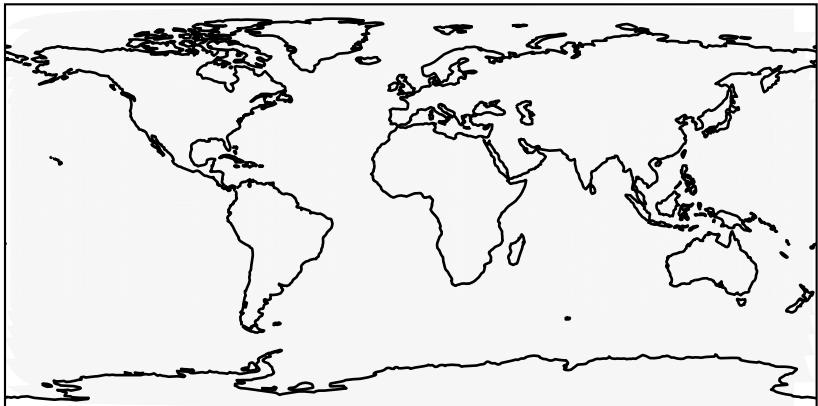
Zero throughout domain  
µg/m³

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



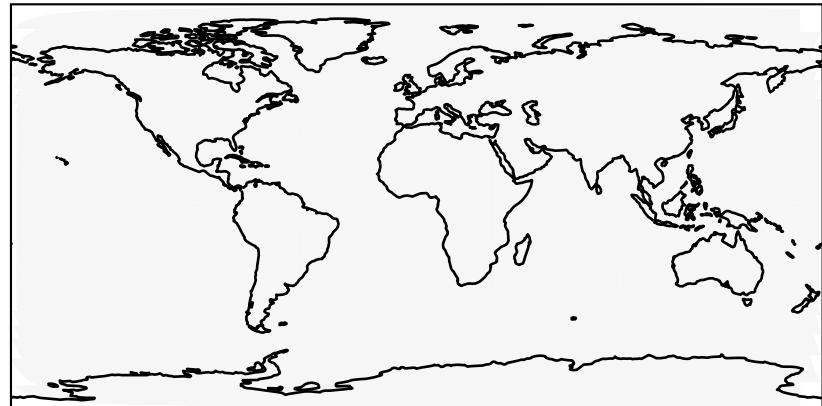
Zero throughout domain  
µg/m³

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

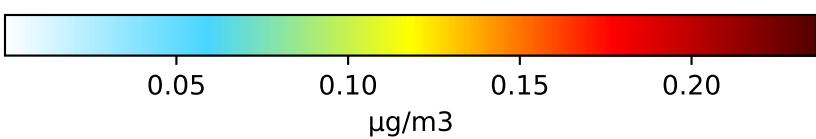
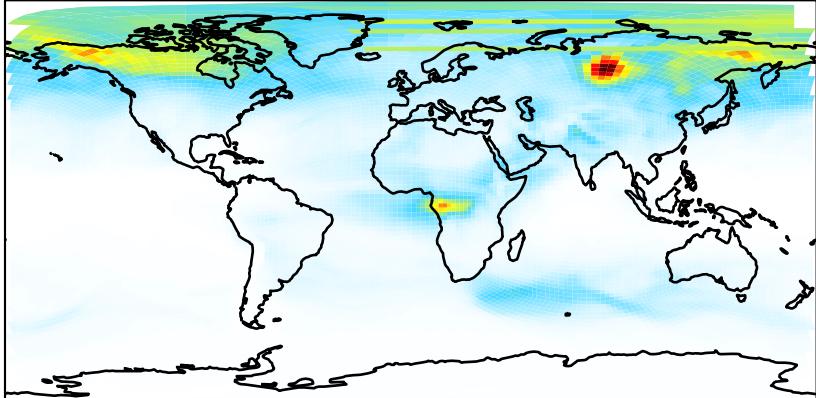
Ratio  
Dev/Ref, Fixed Range



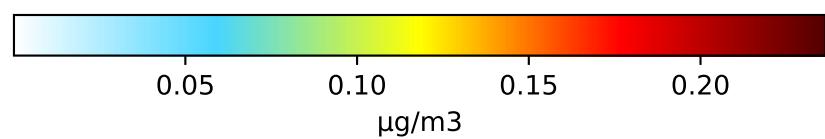
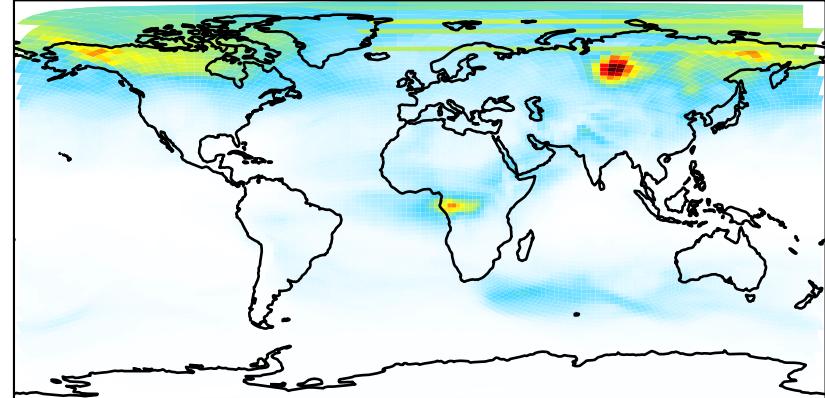
$10^0$   
unitless

# SpeciesConc\_OCPI

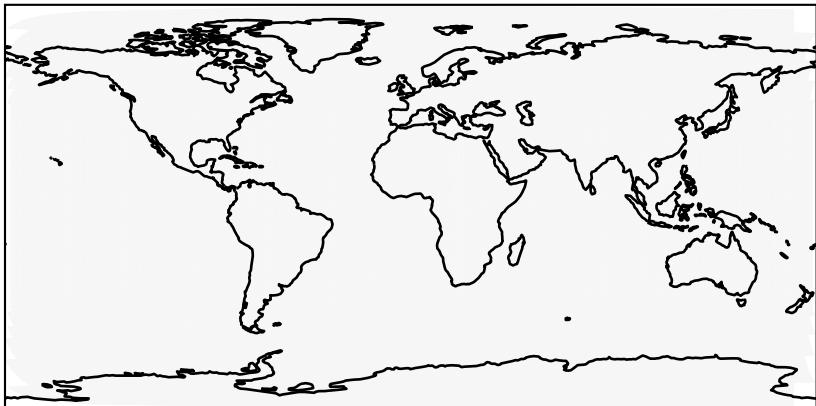
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

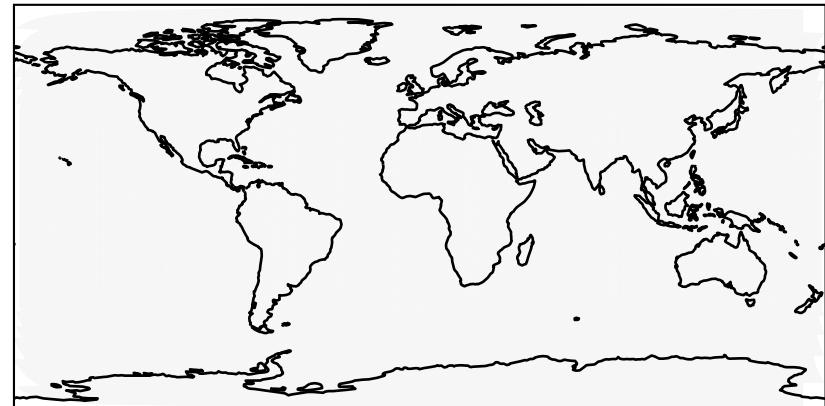


Difference  
Dev - Ref, Dynamic Range



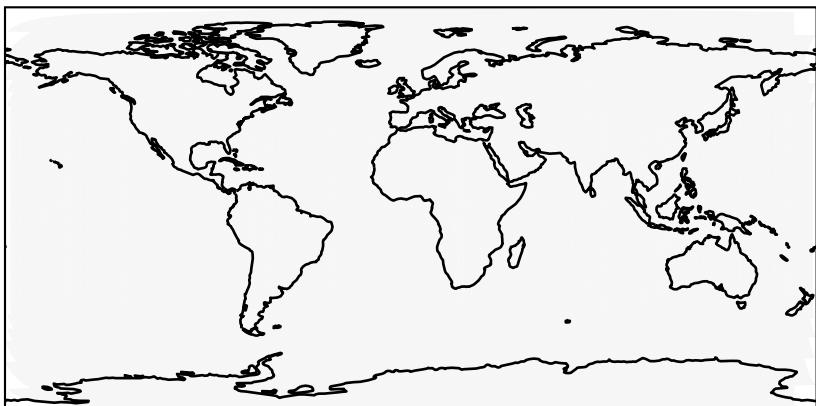
Zero throughout domain  
µg/m<sup>3</sup>

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



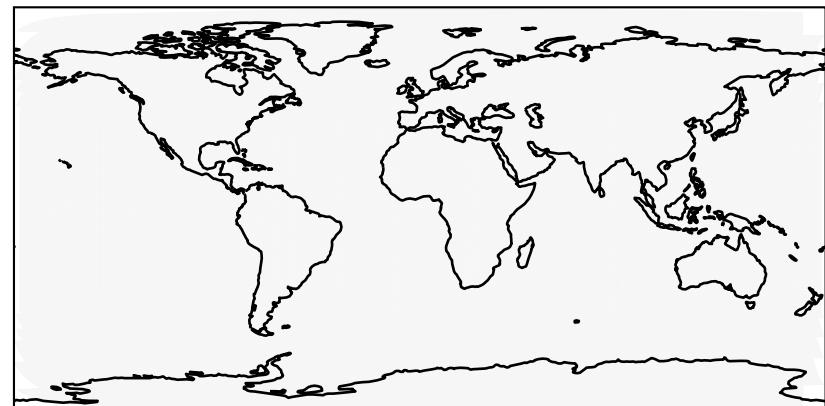
Zero throughout domain  
µg/m<sup>3</sup>

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

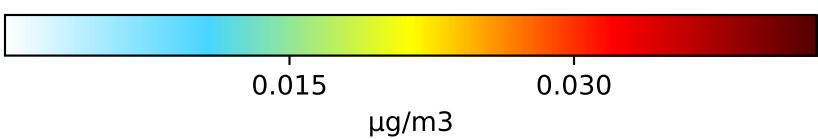
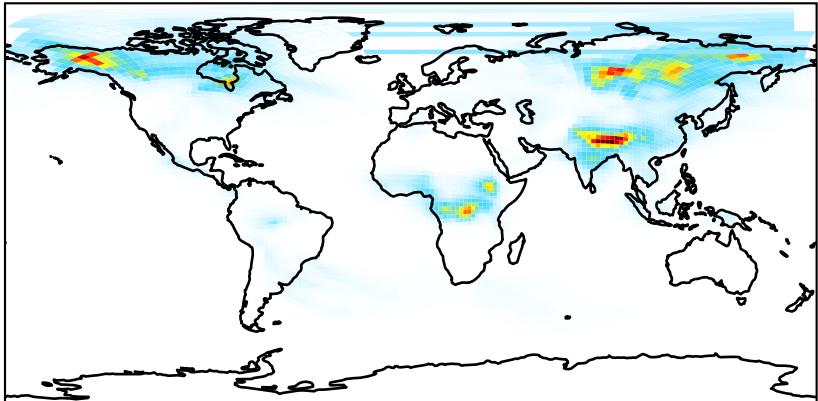
Ratio  
Dev/Ref, Fixed Range



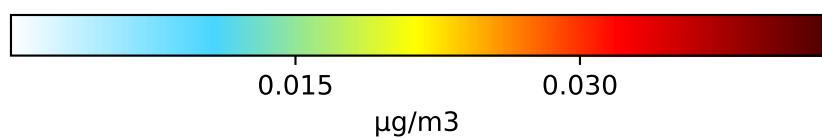
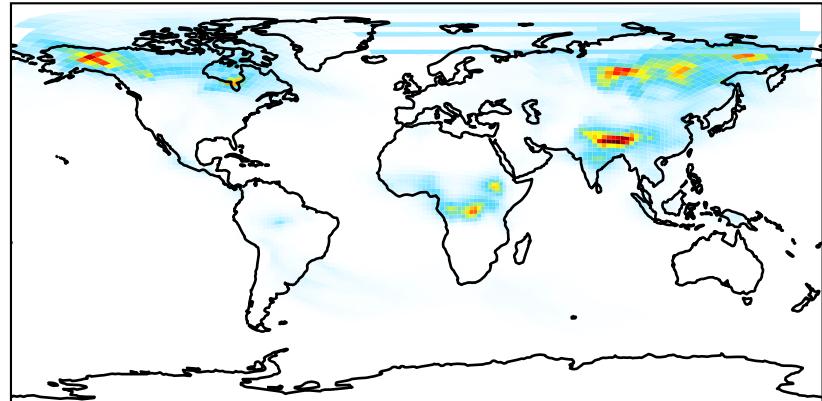
$10^0$   
unitless

# SpeciesConc\_OCPO

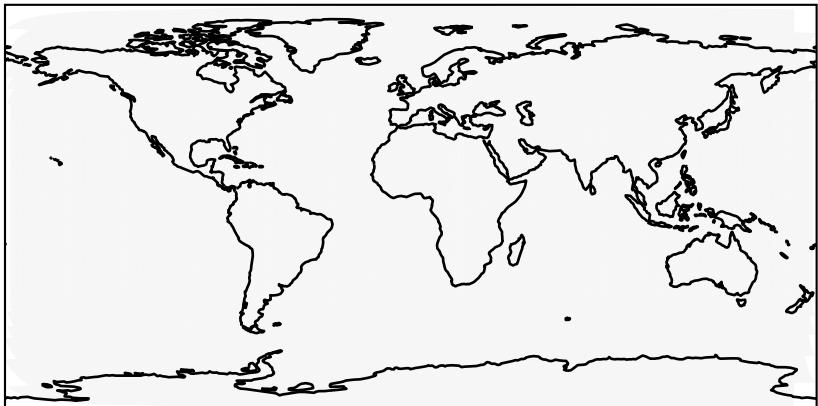
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

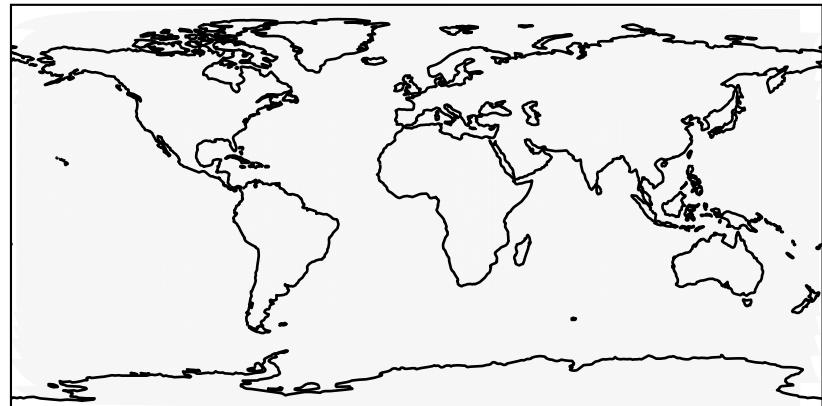


Difference  
Dev - Ref, Dynamic Range



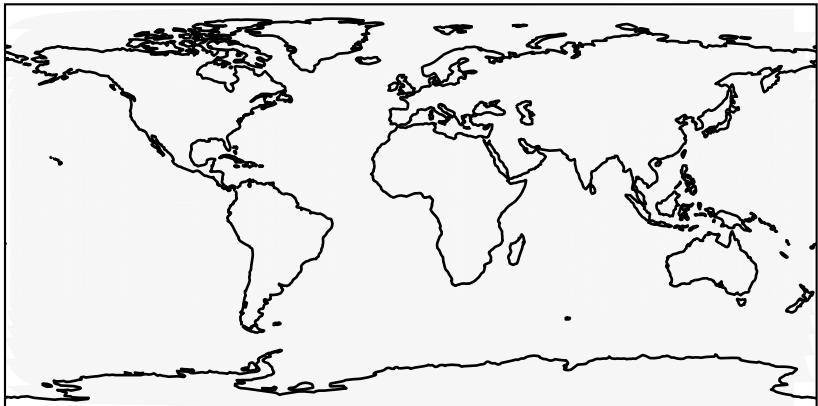
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



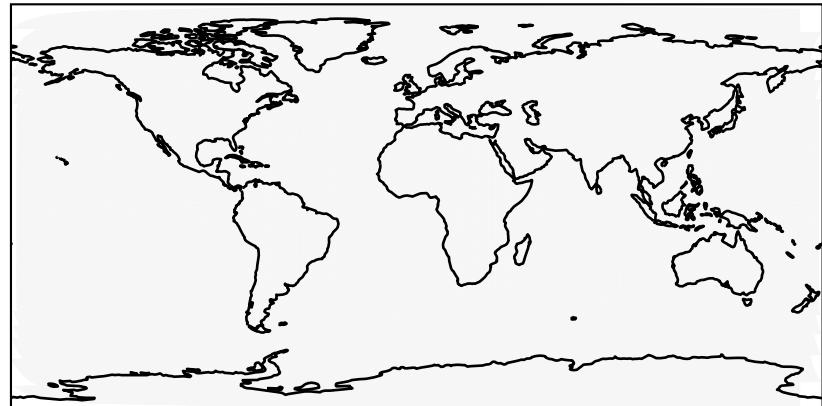
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

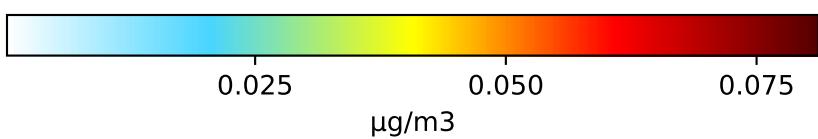
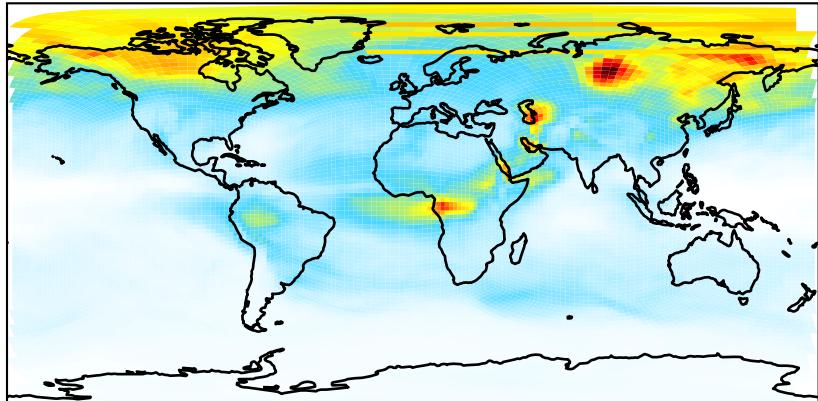
Ratio  
Dev/Ref, Fixed Range



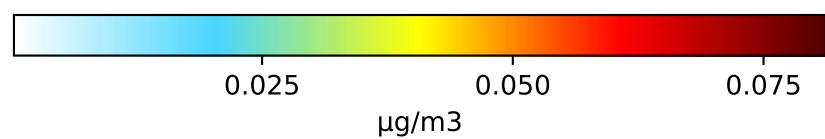
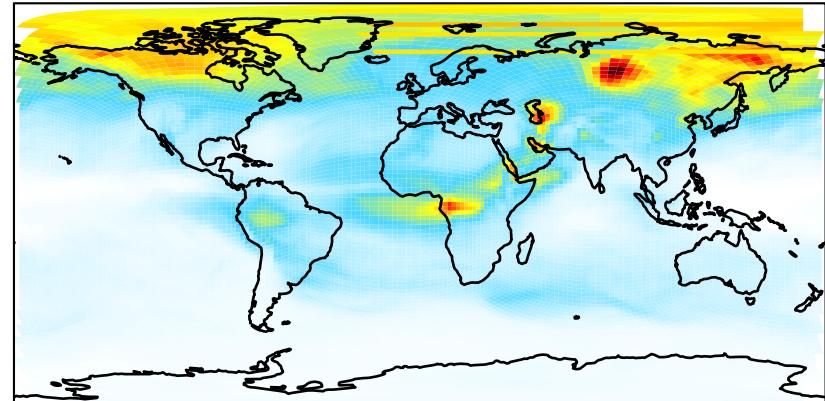
$10^0$   
unitless

# SpeciesConc\_Complex\_SOA

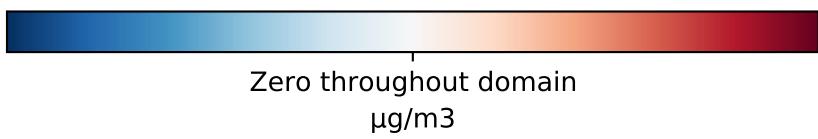
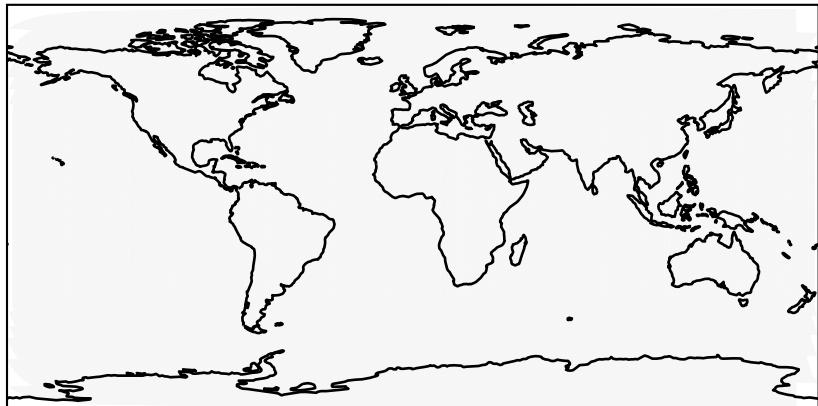
GCHP\_13.2.0-beta.0 (Ref)  
c48



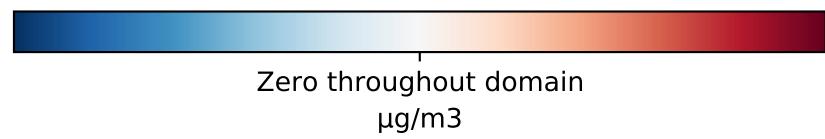
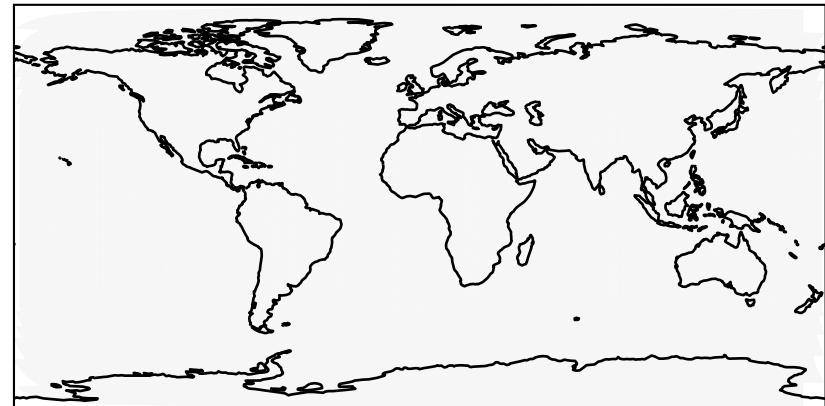
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



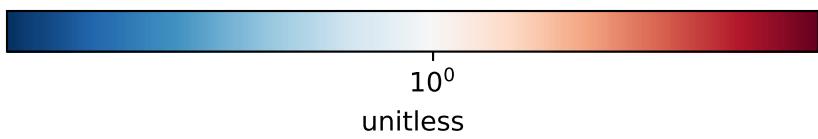
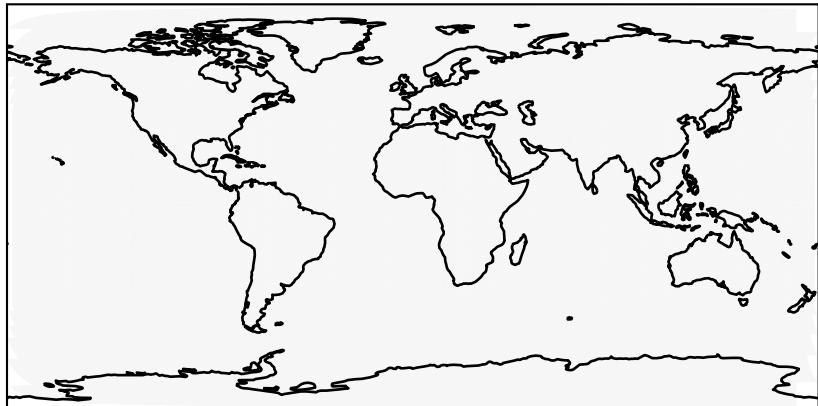
Difference  
Dev - Ref, Dynamic Range



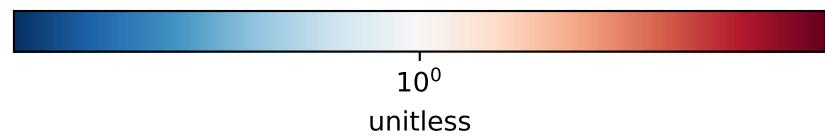
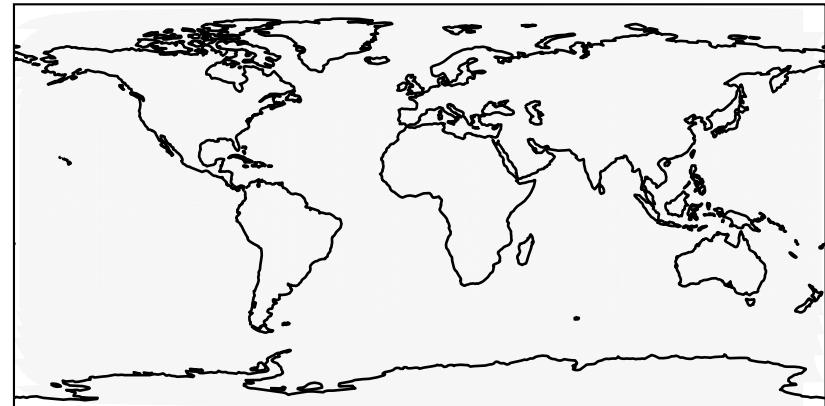
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

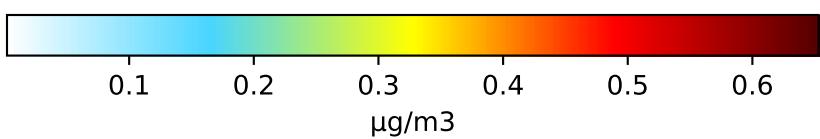
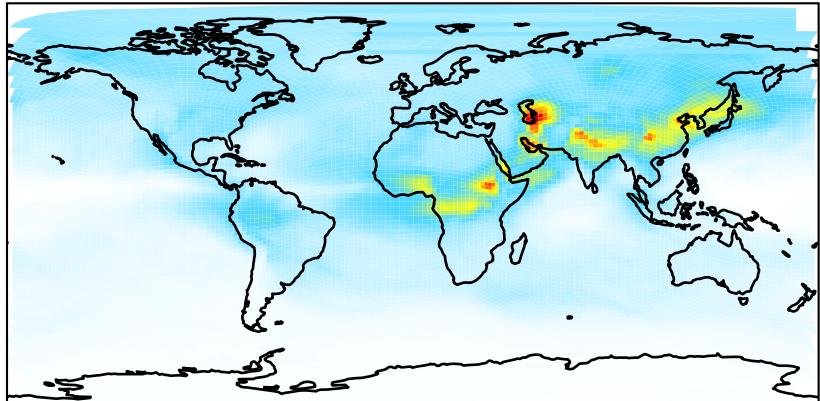


Ratio  
Dev/Ref, Fixed Range

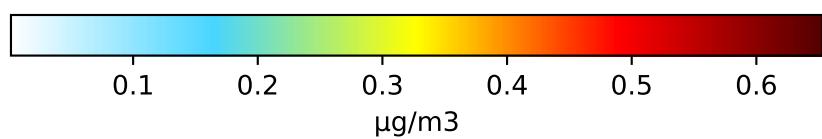
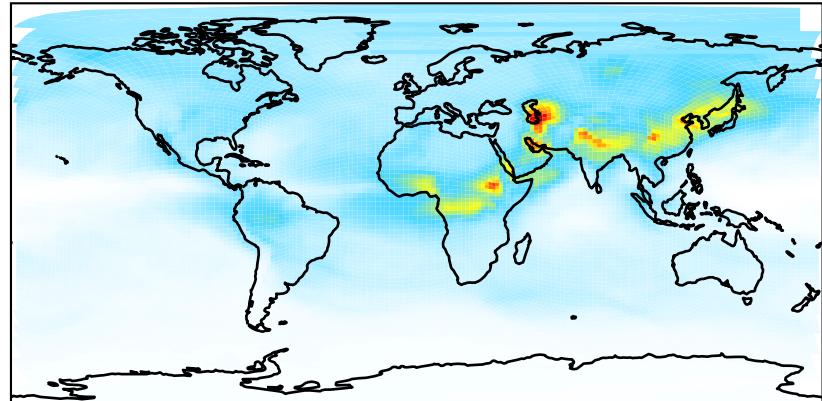


# SpeciesConc\_Simple\_SOA

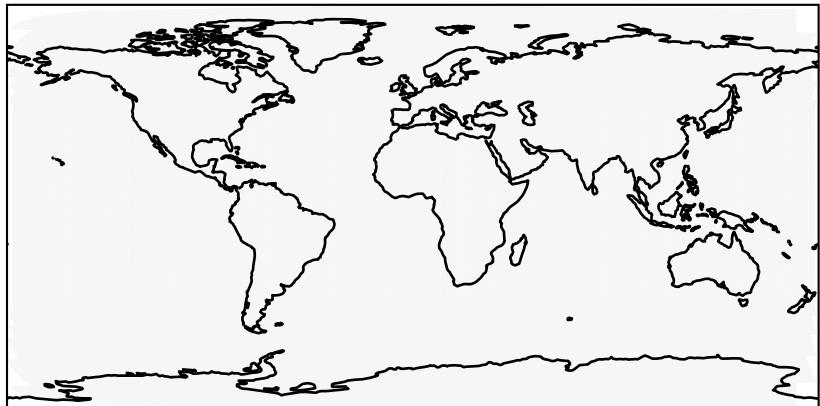
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

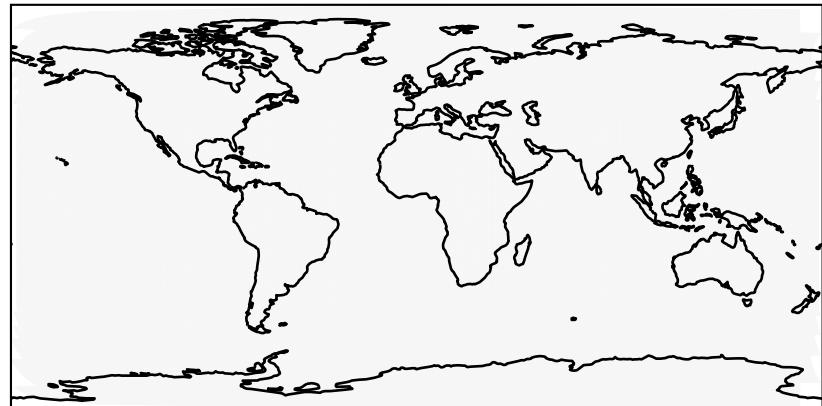


Difference  
Dev - Ref, Dynamic Range



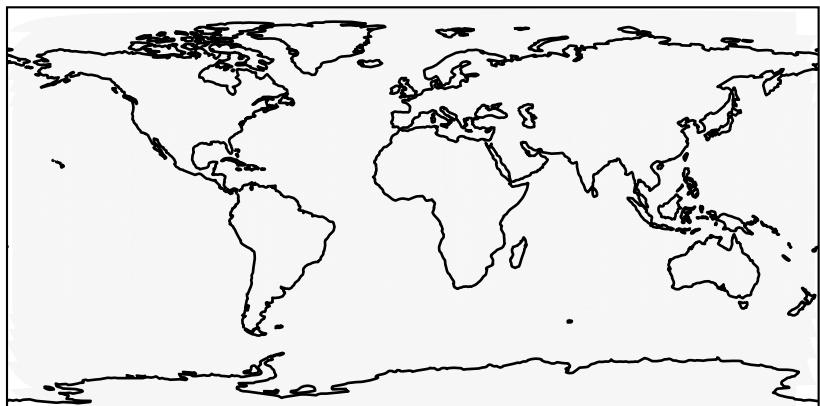
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



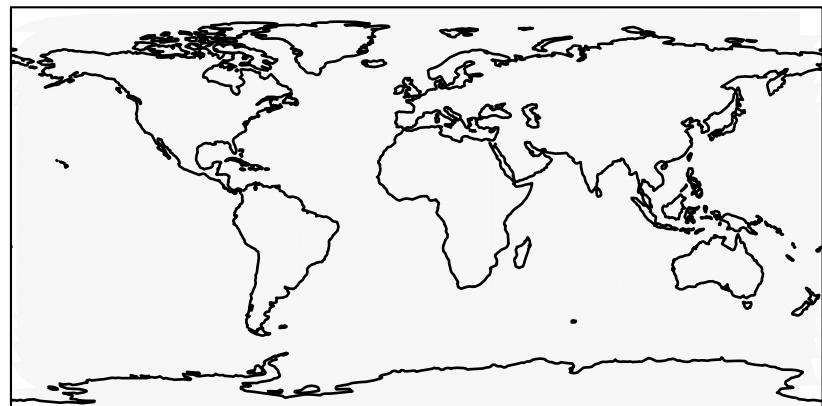
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

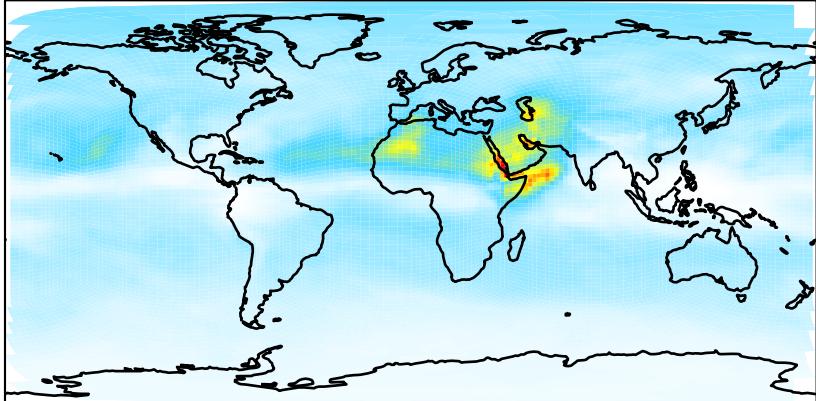
Ratio  
Dev/Ref, Fixed Range



$10^0$   
unitless

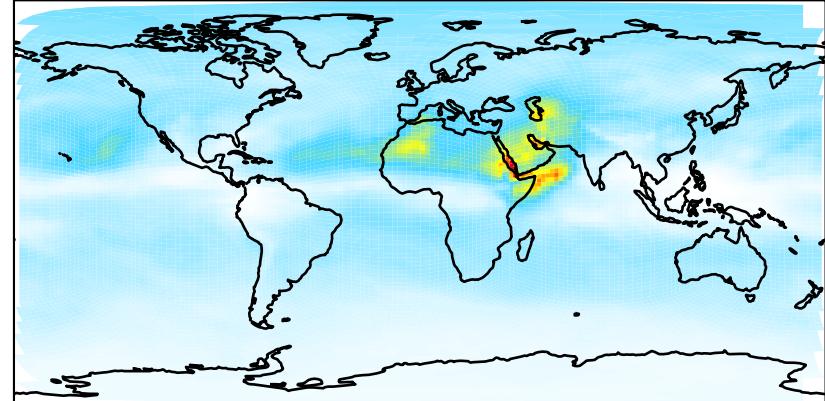
# SpeciesConc\_AERI

GCHP\_13.2.0-beta.0 (Ref)  
c48



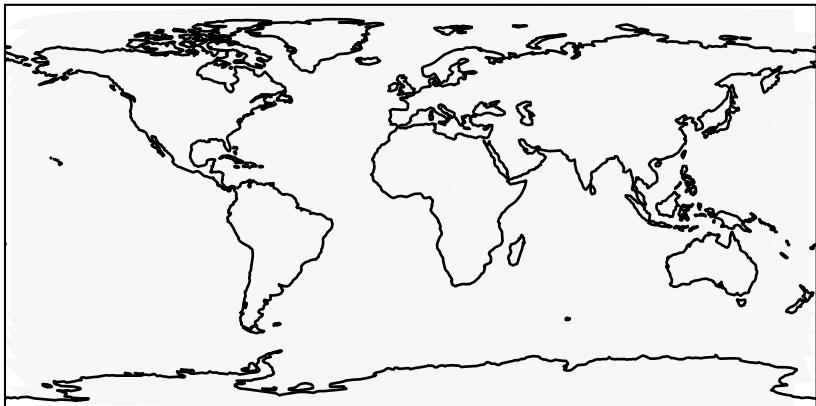
0.0008      0.0016      0.0024  
 $\mu\text{g}/\text{m}^3$

GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



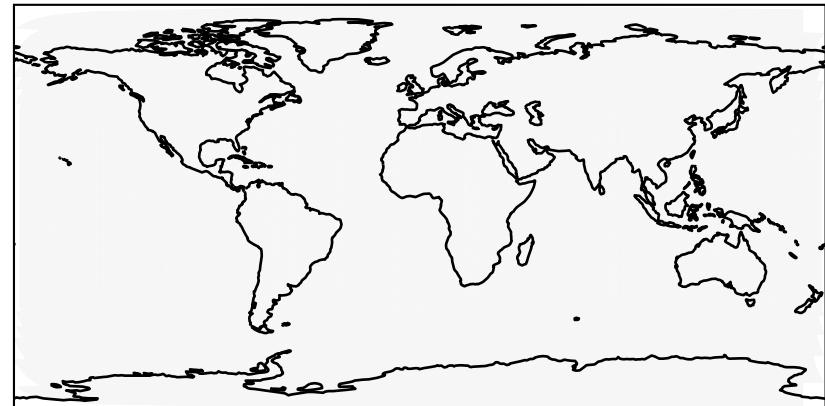
0.0008      0.0016      0.0024  
 $\mu\text{g}/\text{m}^3$

Difference  
Dev - Ref, Dynamic Range



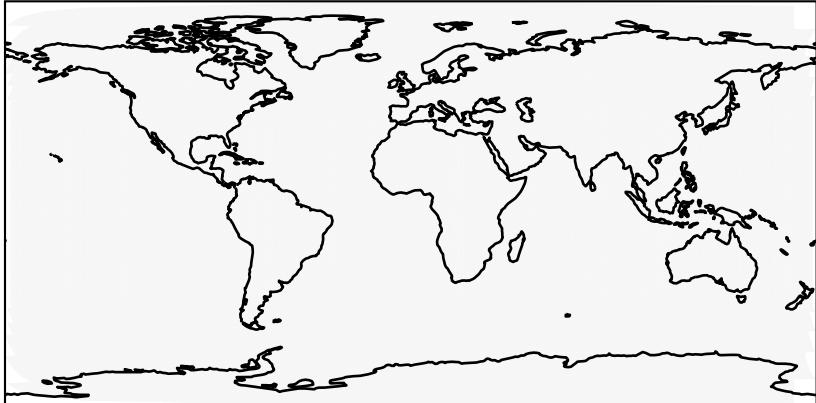
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



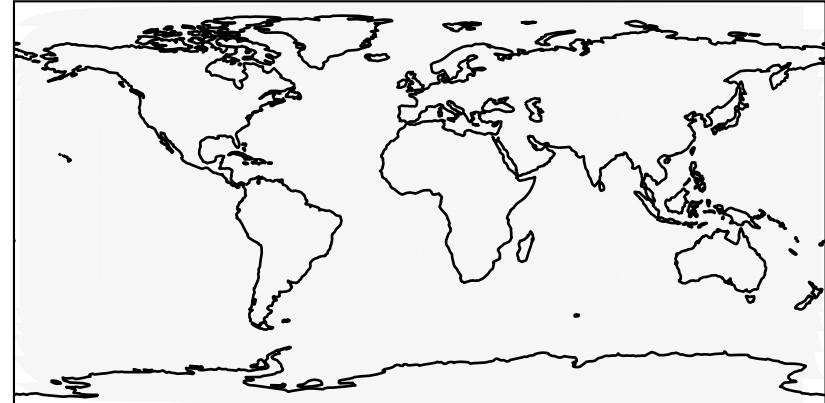
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

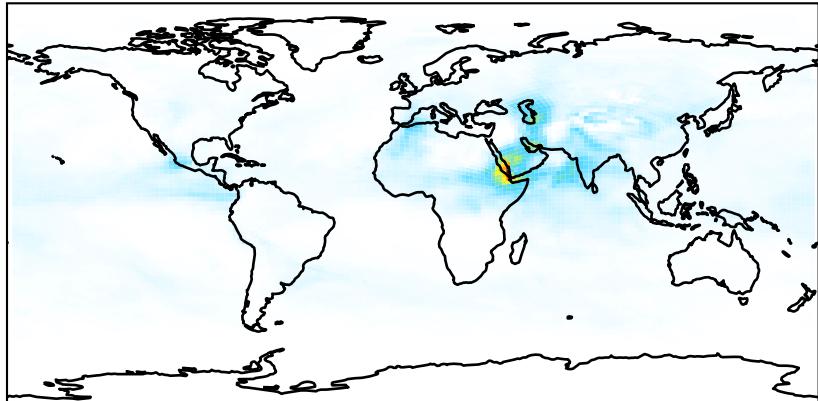
Ratio  
Dev/Ref, Fixed Range



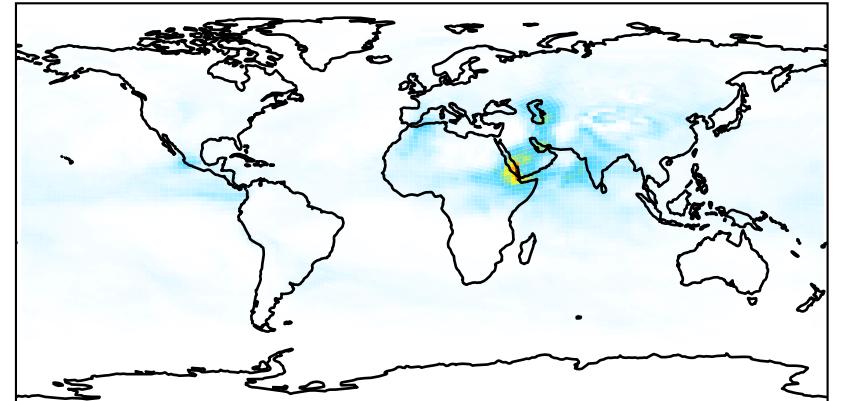
$10^0$   
unitless

# SpeciesConc\_BrSALA

GCHP\_13.2.0-beta.0 (Ref)  
c48



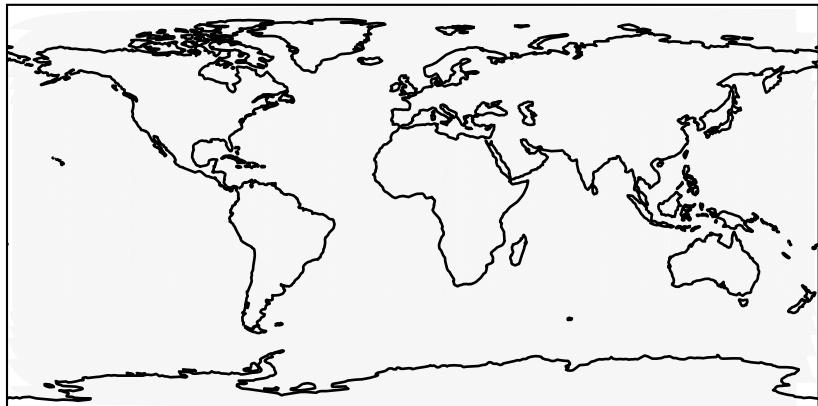
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



0.0008      0.0016      0.0024  
µg/m<sup>3</sup>

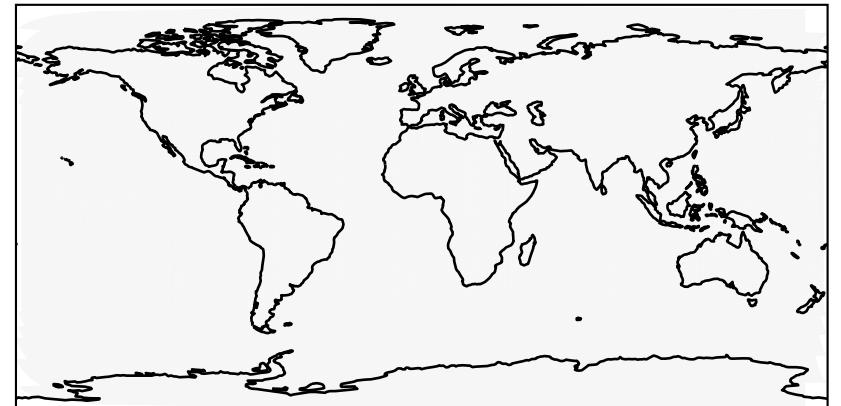
0.0008      0.0016      0.0024  
µg/m<sup>3</sup>

Difference  
Dev - Ref, Dynamic Range



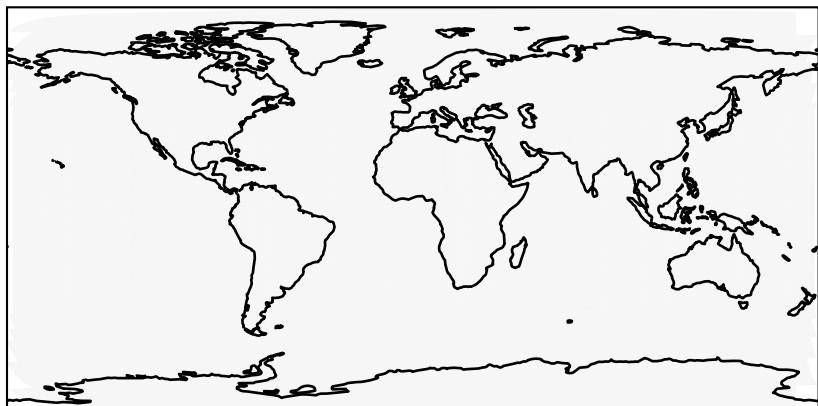
Zero throughout domain  
µg/m<sup>3</sup>

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



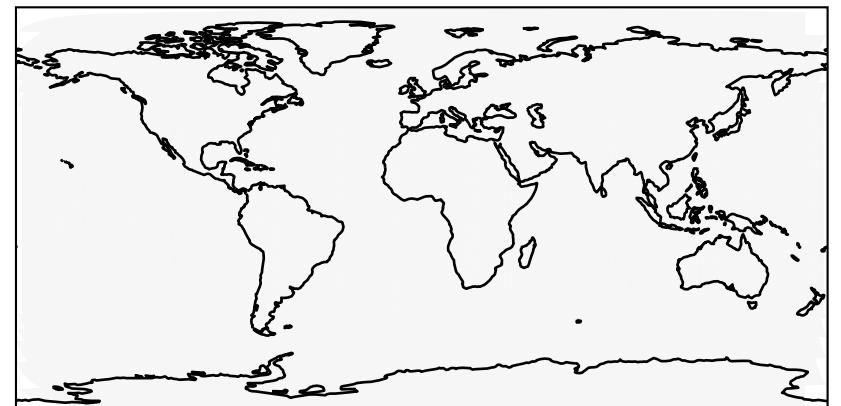
Zero throughout domain  
µg/m<sup>3</sup>

Ratio  
Dev/Ref, Dynamic Range



10<sup>0</sup>  
unitless

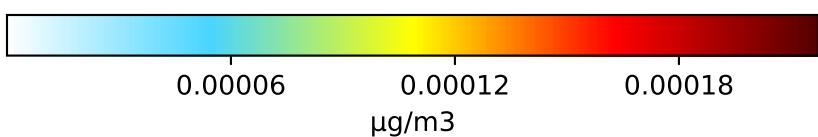
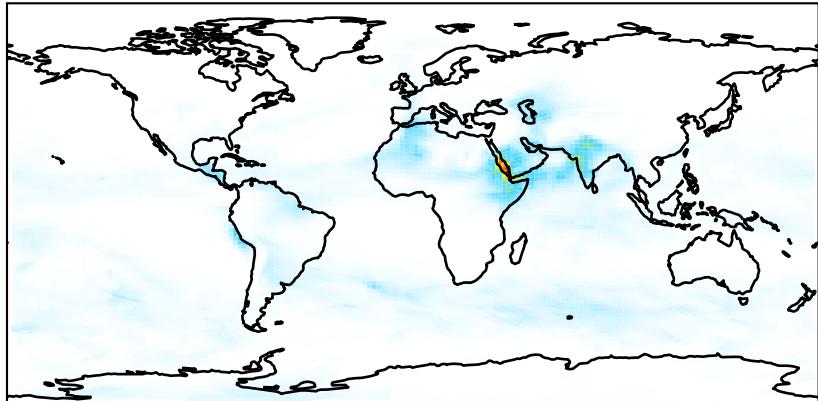
Ratio  
Dev/Ref, Fixed Range



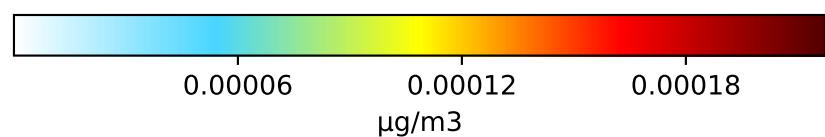
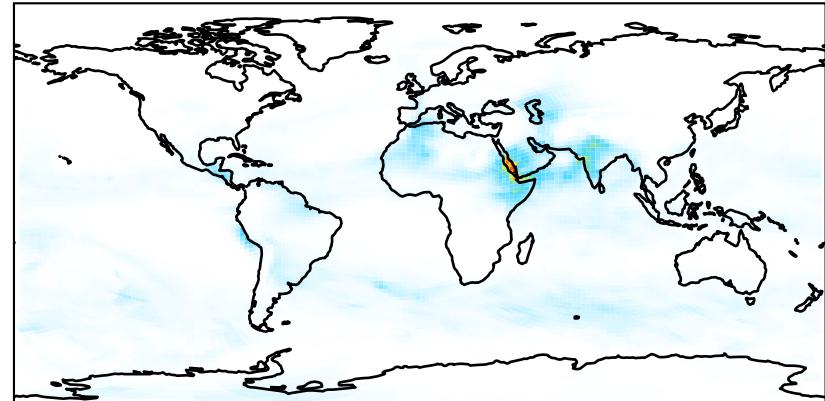
10<sup>0</sup>  
unitless

# SpeciesConc\_BrSALC

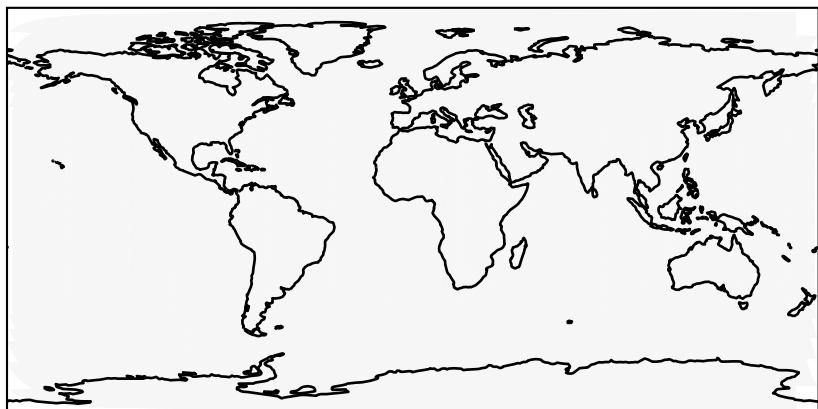
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

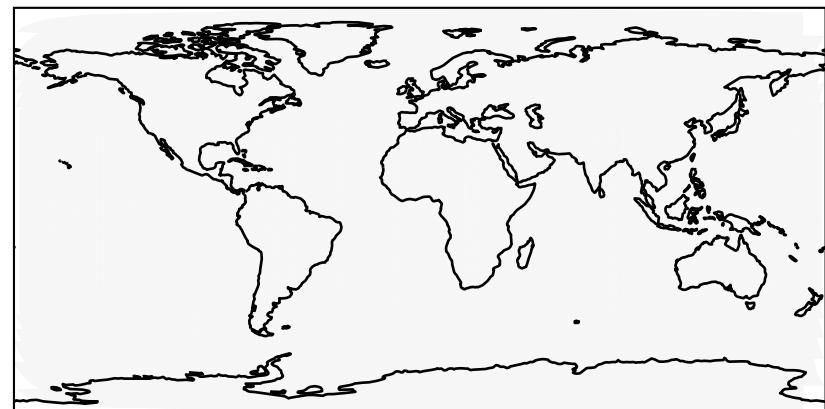


Difference  
Dev - Ref, Dynamic Range



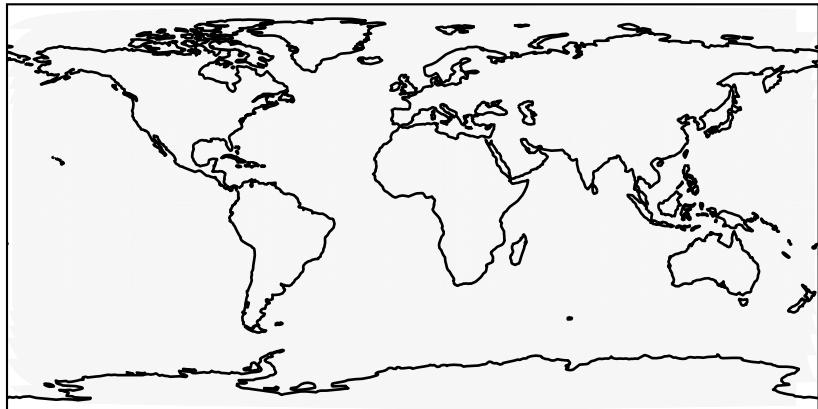
Zero throughout domain  
µg/m³

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



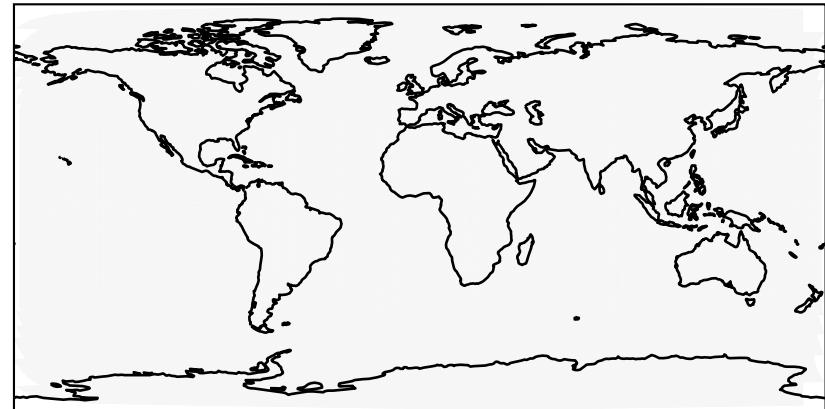
Zero throughout domain  
µg/m³

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

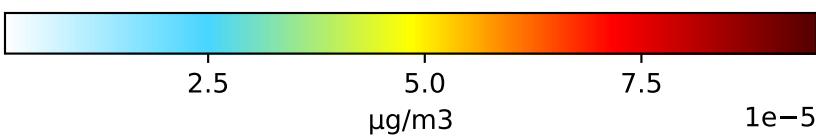
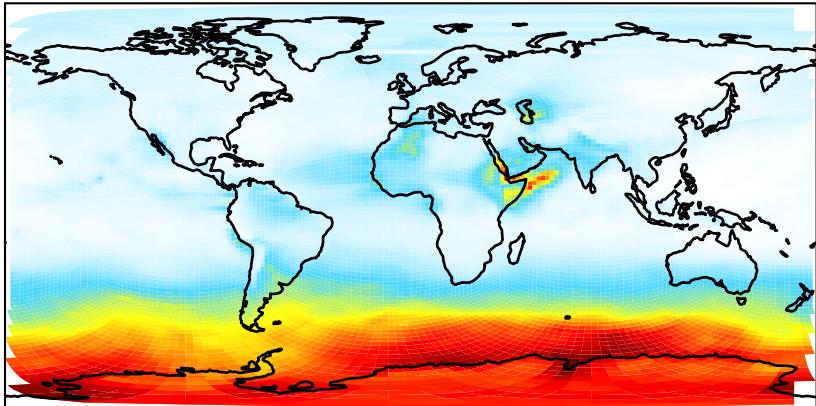
Ratio  
Dev/Ref, Fixed Range



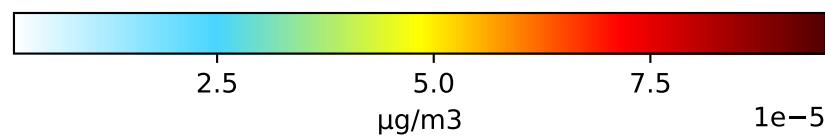
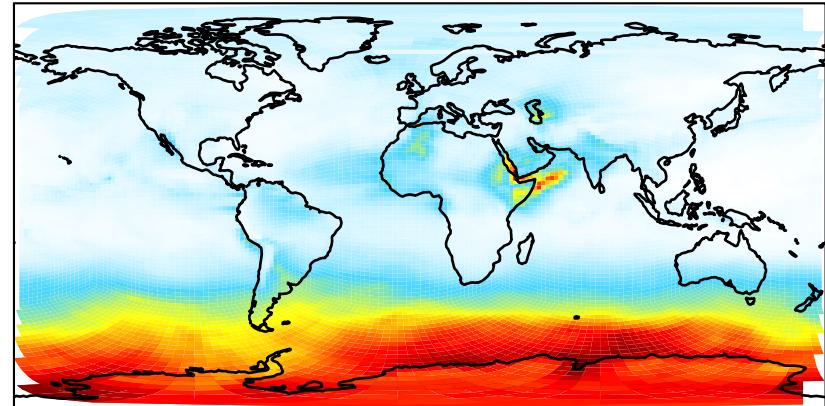
$10^0$   
unitless

# SpeciesConc\_ISALA

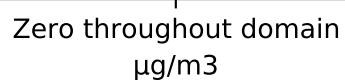
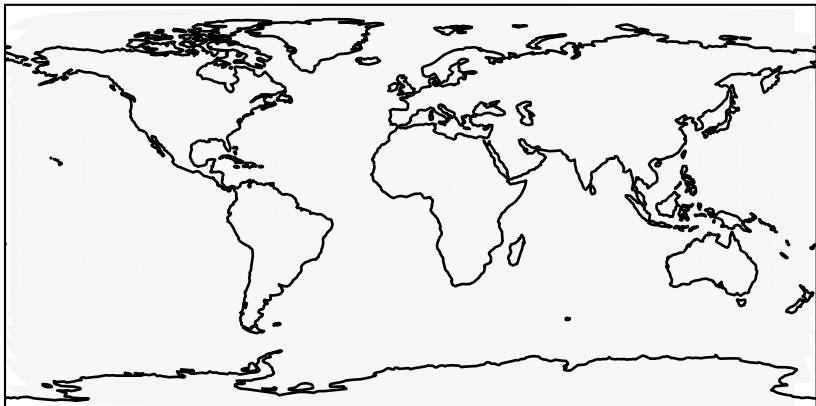
GCHP\_13.2.0-beta.0 (Ref)  
c48



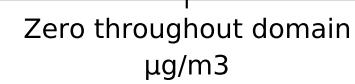
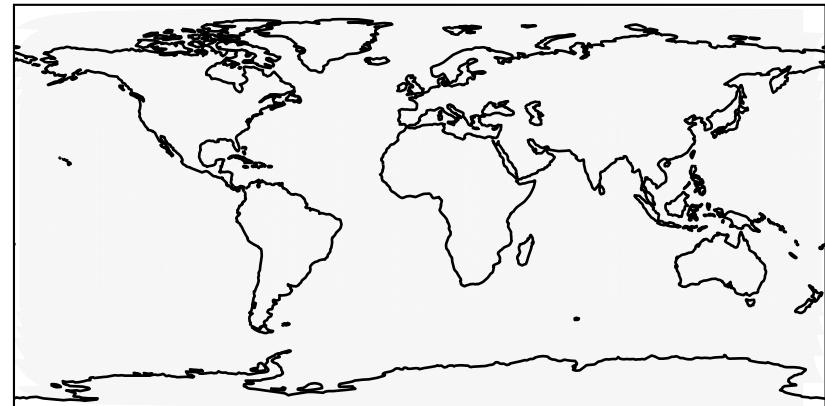
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



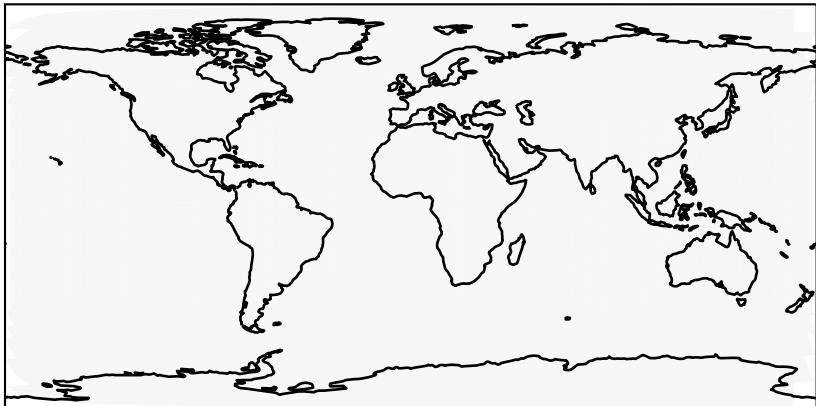
Difference  
Dev - Ref, Dynamic Range



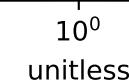
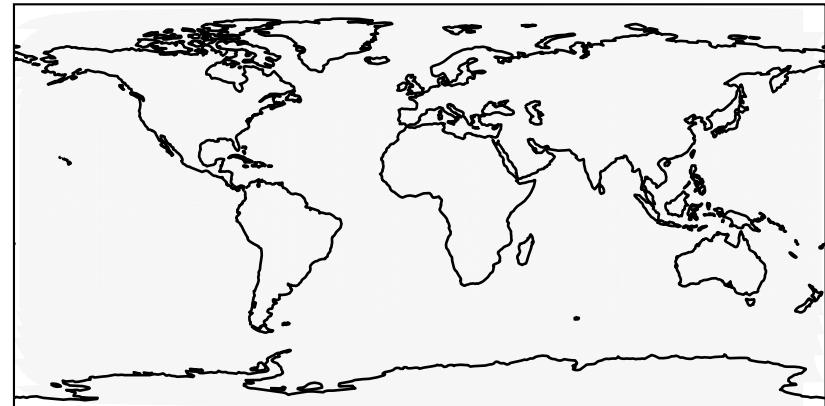
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

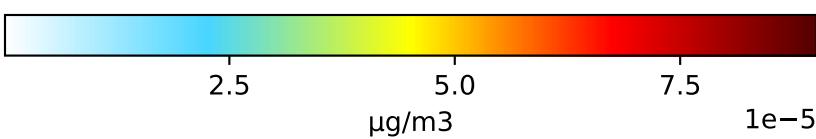
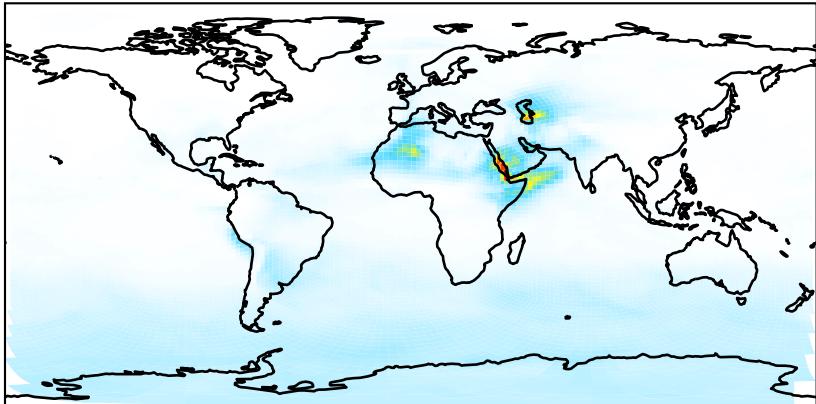


Ratio  
Dev/Ref, Fixed Range

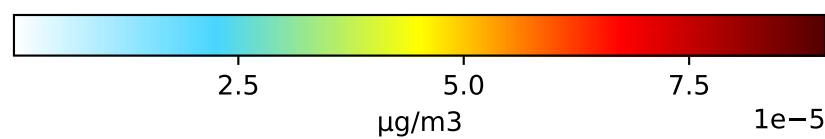
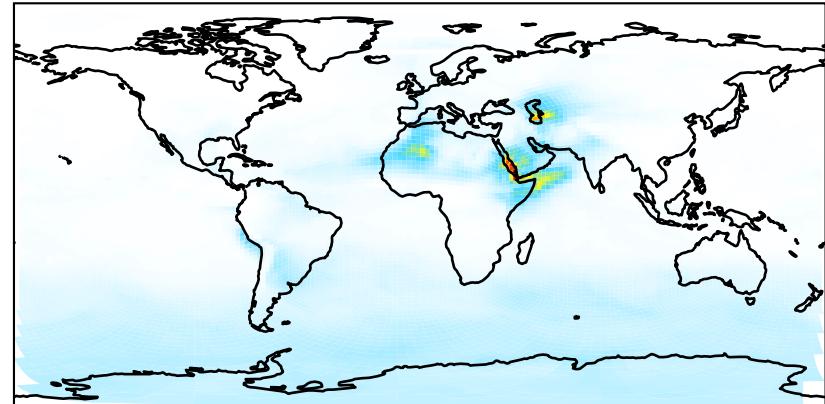


# SpeciesConc\_ISALC

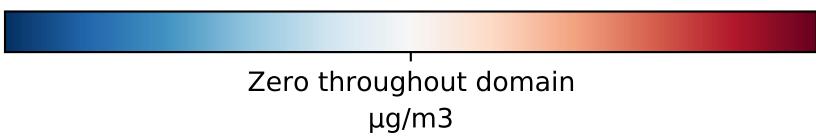
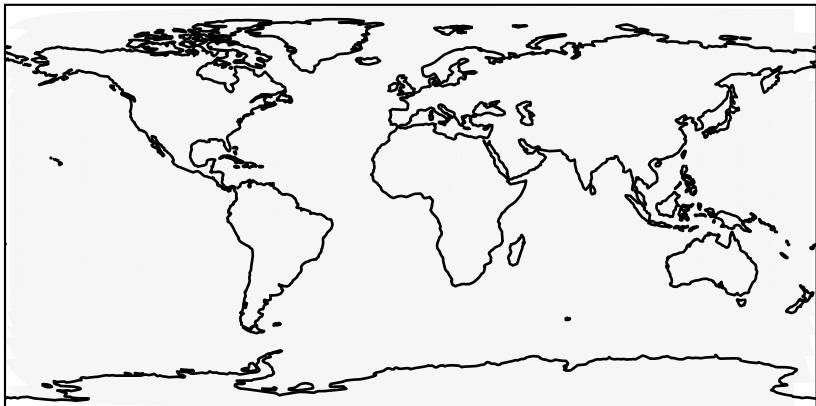
GCHP\_13.2.0-beta.0 (Ref)  
c48



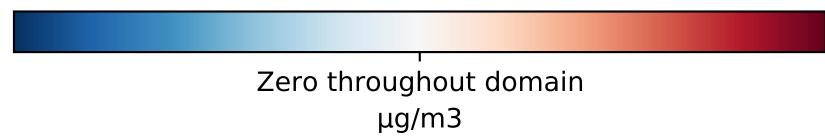
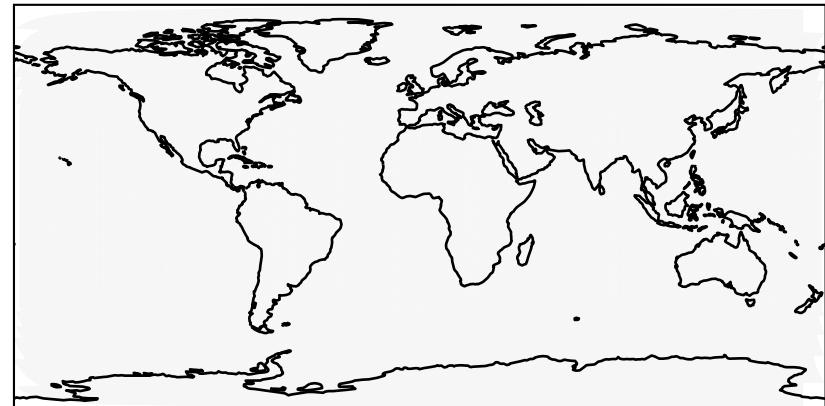
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



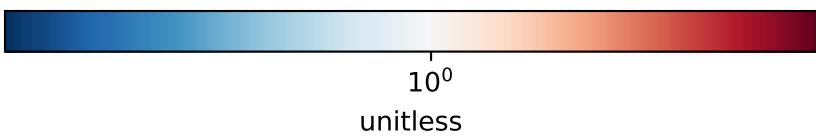
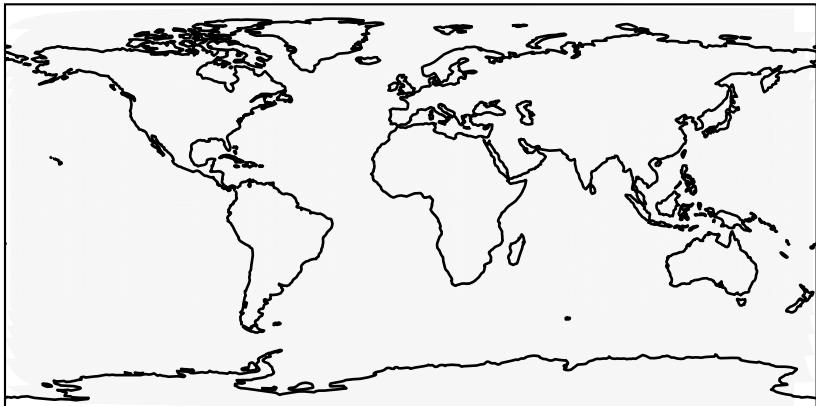
Difference  
Dev - Ref, Dynamic Range



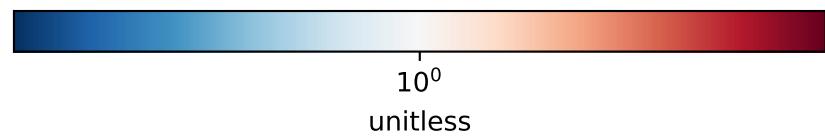
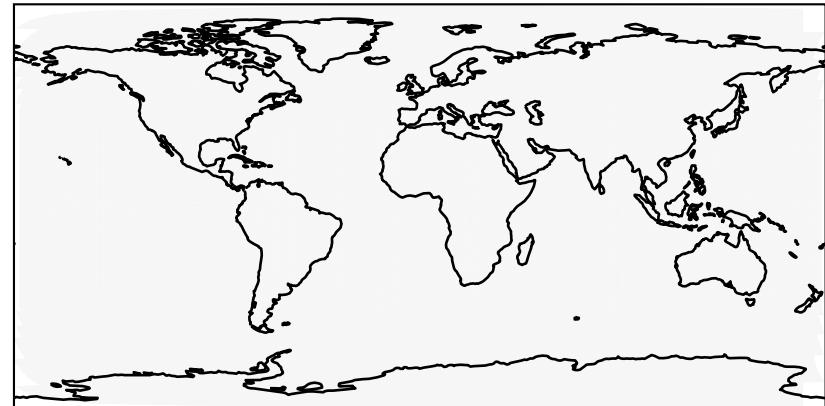
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

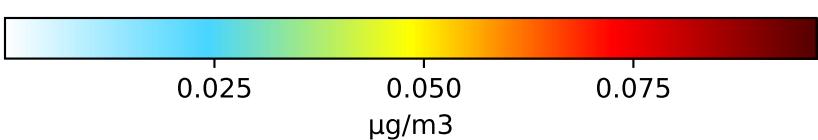
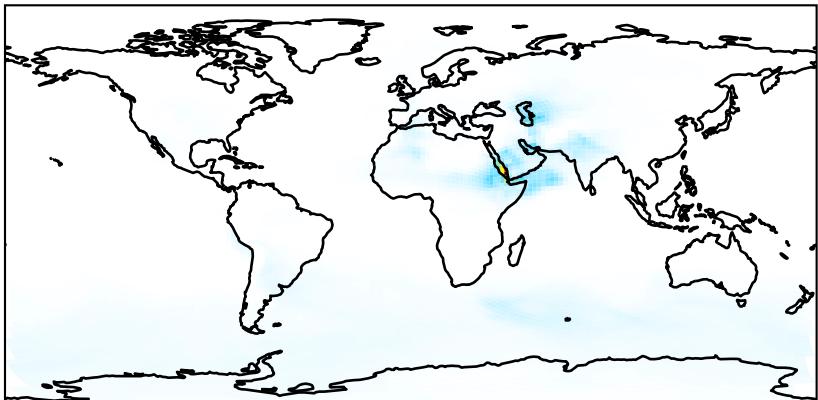


Ratio  
Dev/Ref, Fixed Range

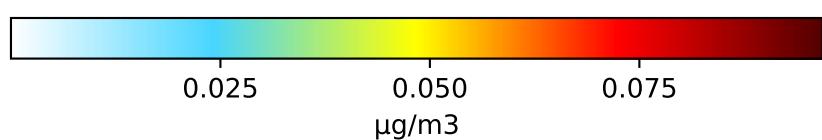
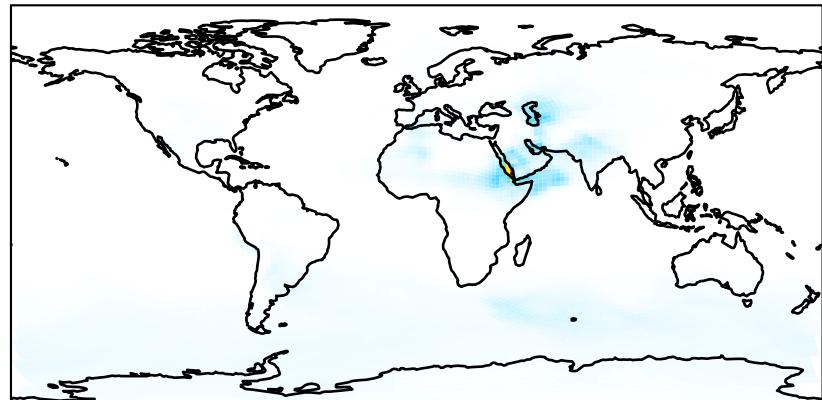


# SpeciesConc\_NITs

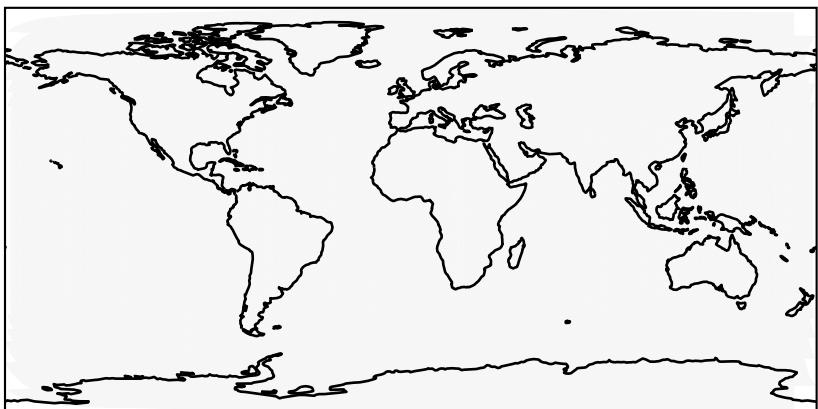
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

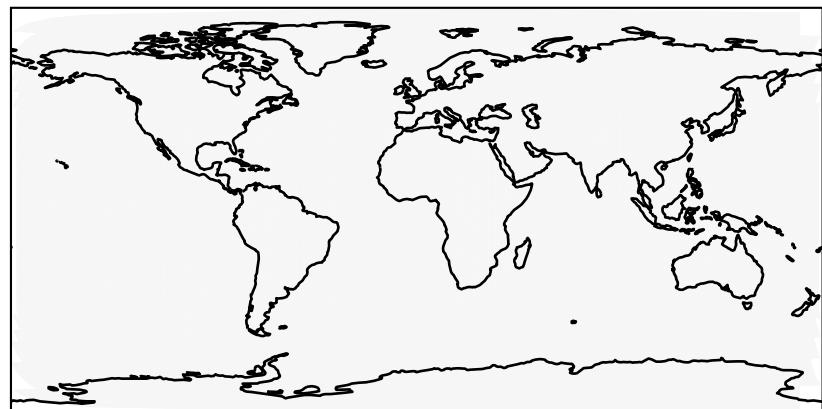


Difference  
Dev - Ref, Dynamic Range



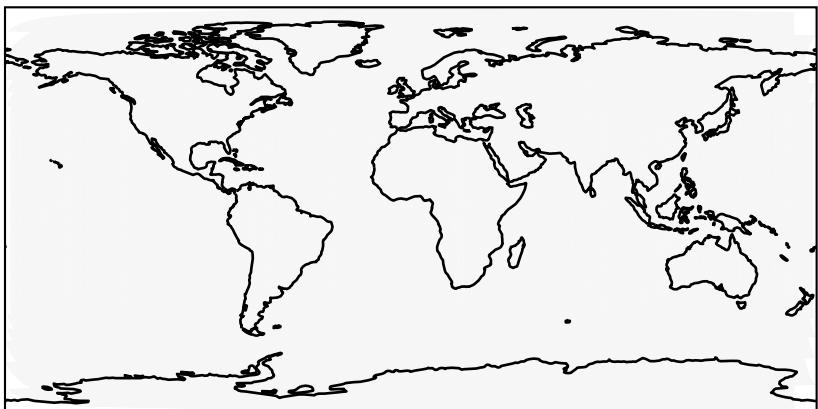
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



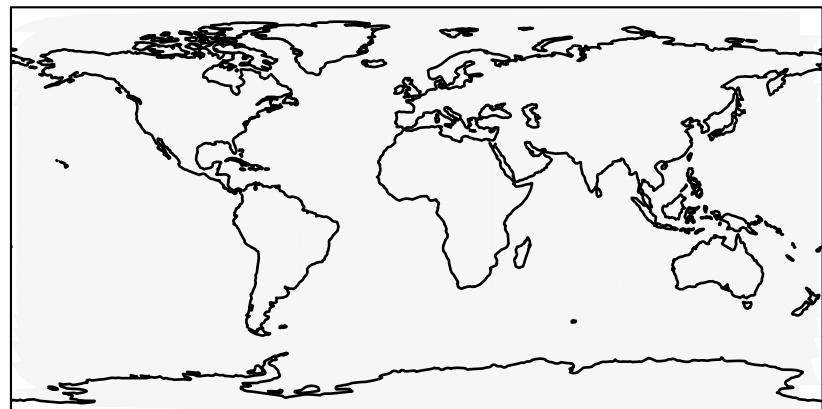
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

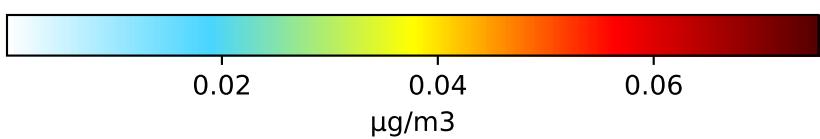
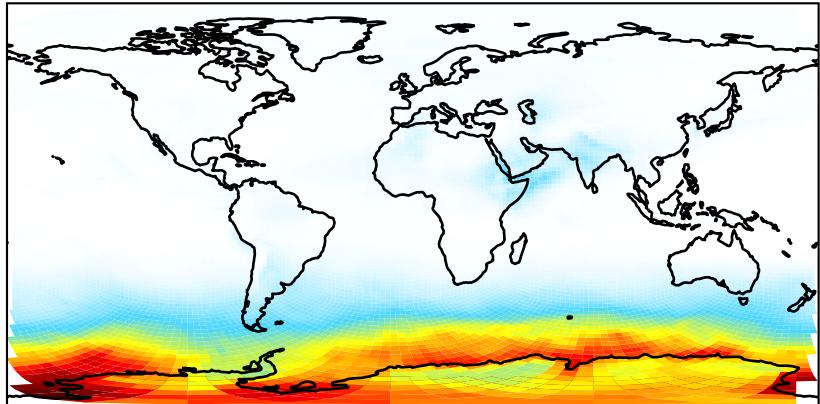
Ratio  
Dev/Ref, Fixed Range



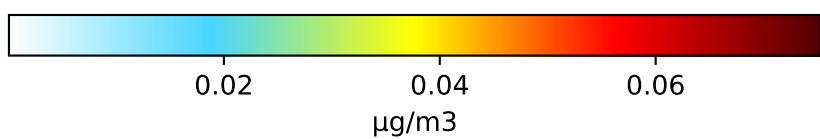
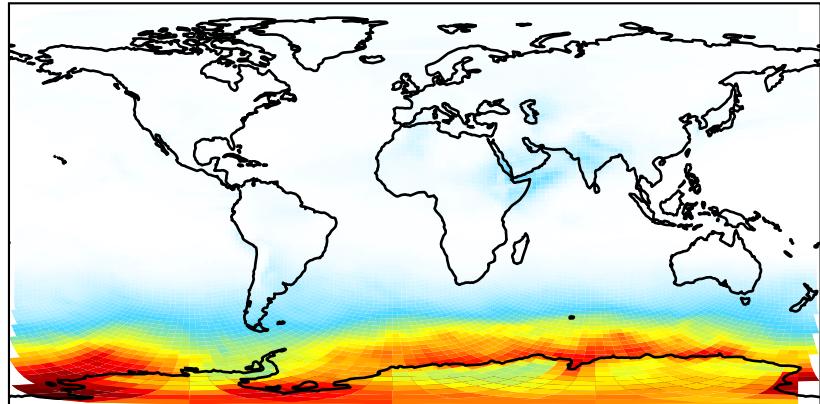
$10^0$   
unitless

# SpeciesConc\_SALA

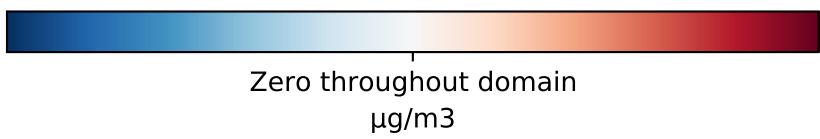
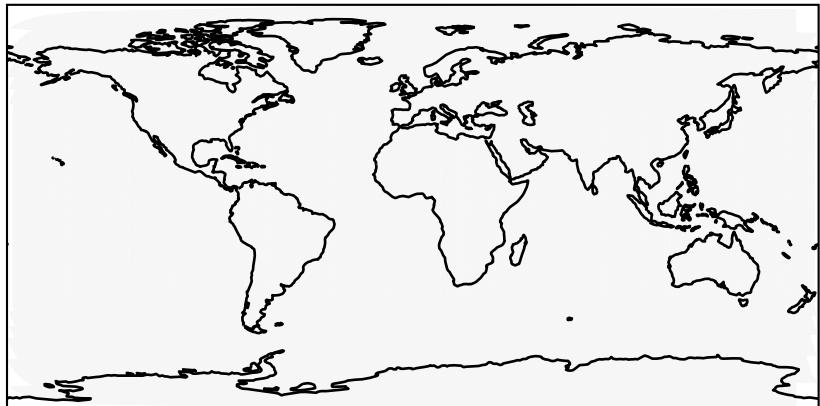
GCHP\_13.2.0-beta.0 (Ref)  
c48



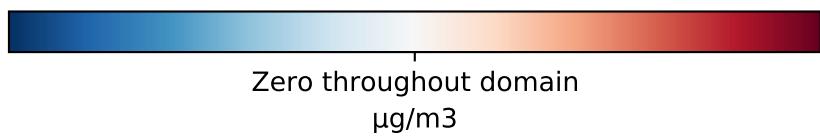
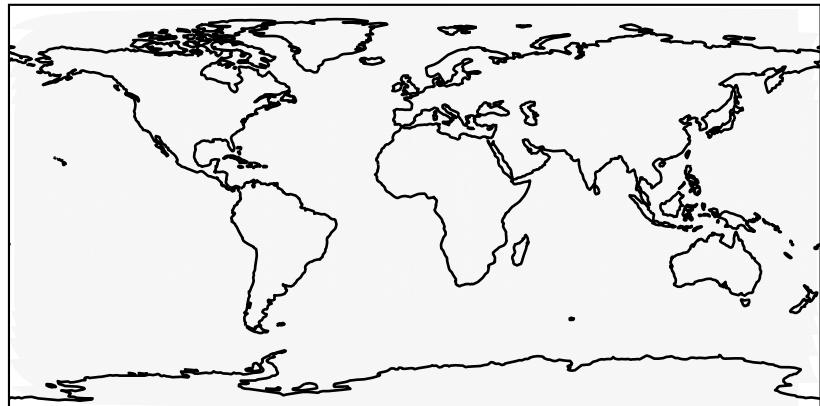
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



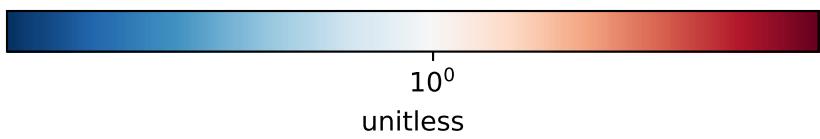
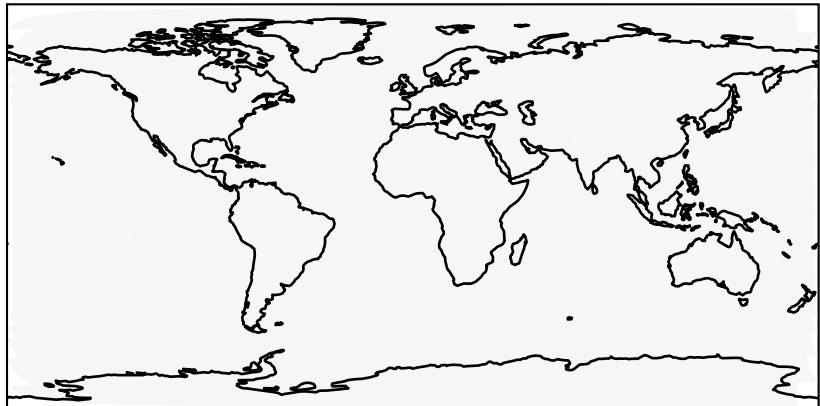
Difference  
Dev - Ref, Dynamic Range



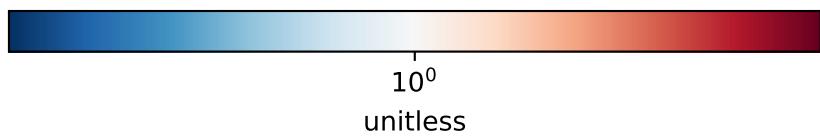
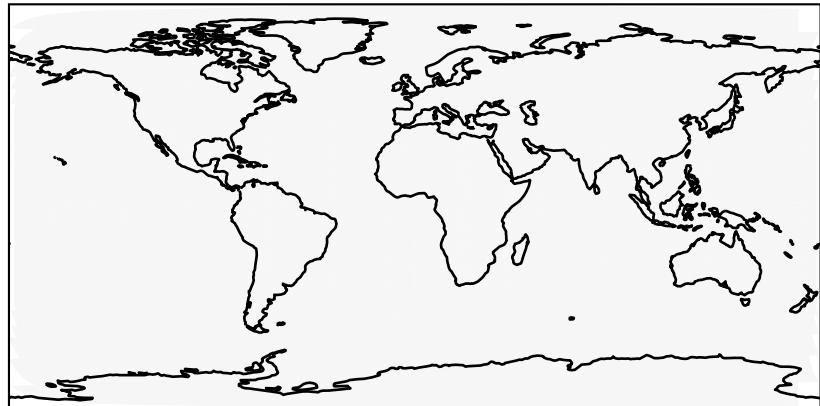
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

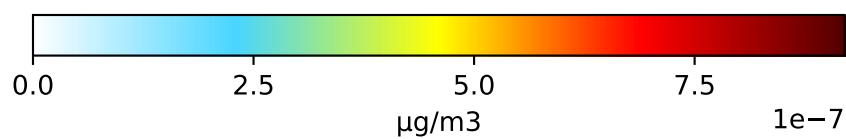
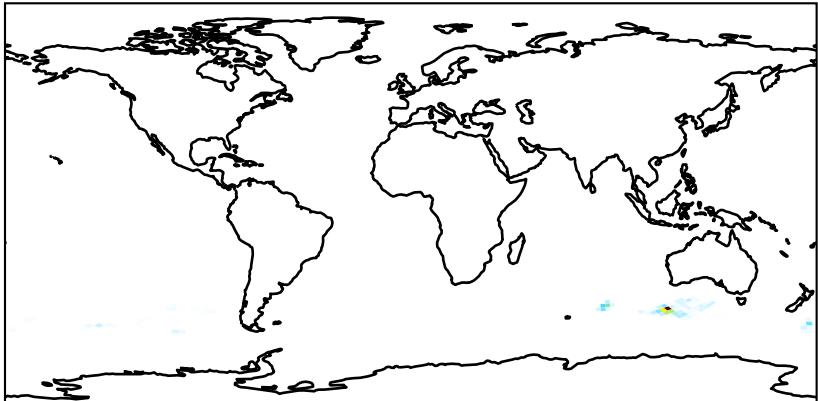


Ratio  
Dev/Ref, Fixed Range

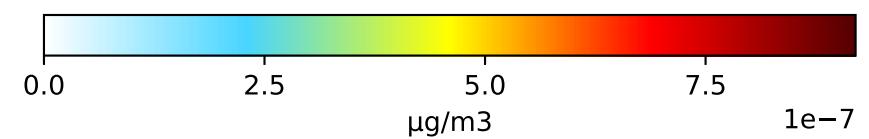
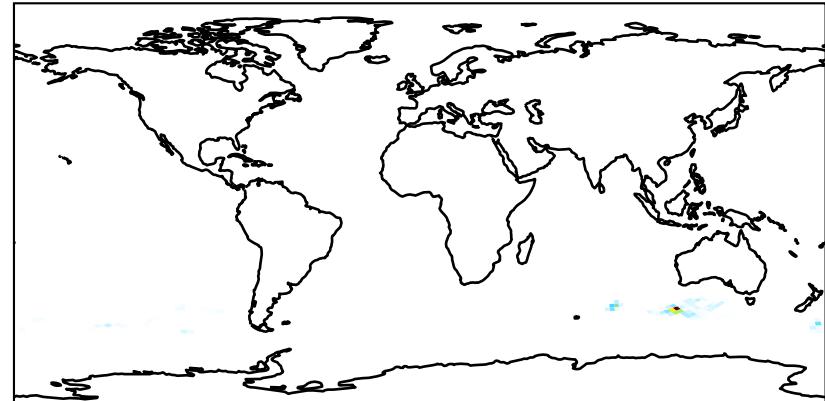


# SpeciesConc\_SALAAL

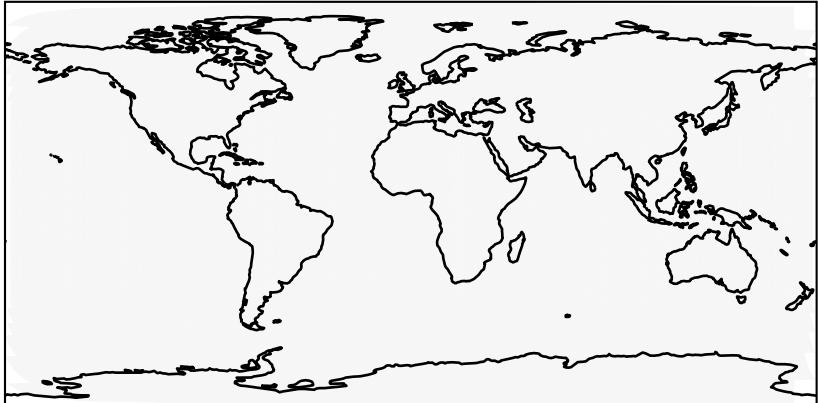
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

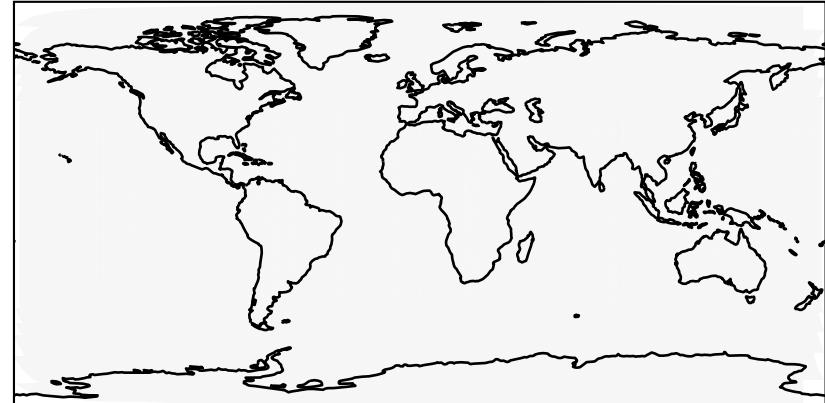


Difference  
Dev - Ref, Dynamic Range



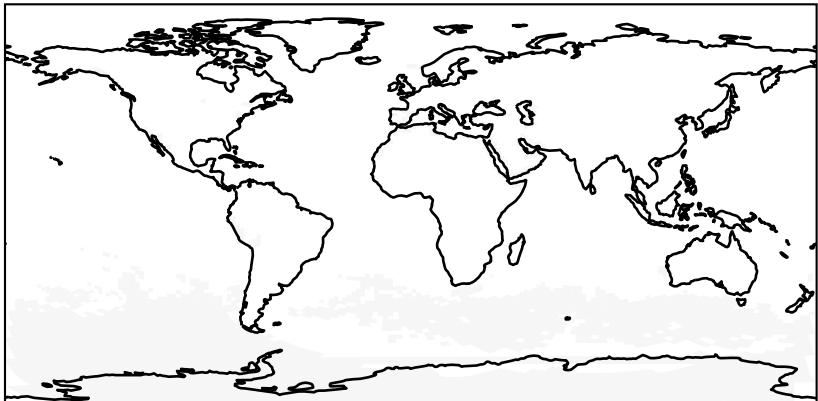
Zero throughout domain  
µg/m3

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



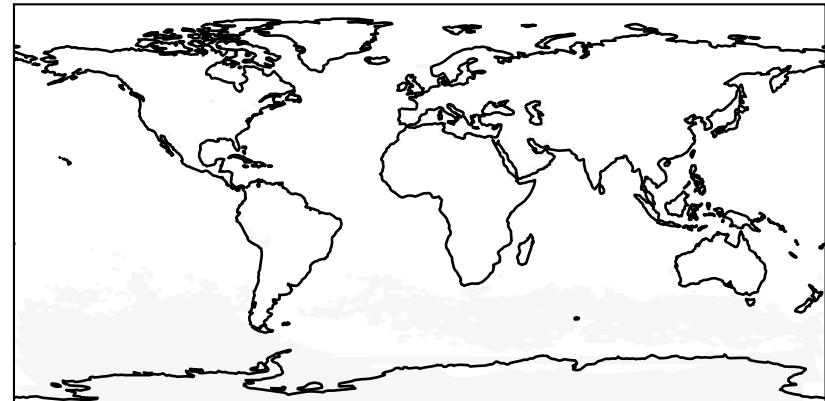
Zero throughout domain  
µg/m3

Ratio  
Dev/Ref, Dynamic Range



0.90      0.96      1.02      1.08  
unitless

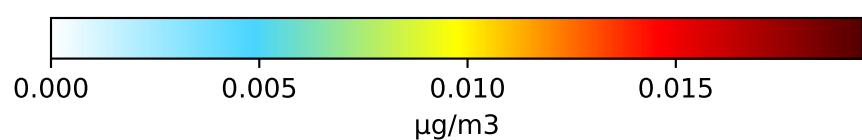
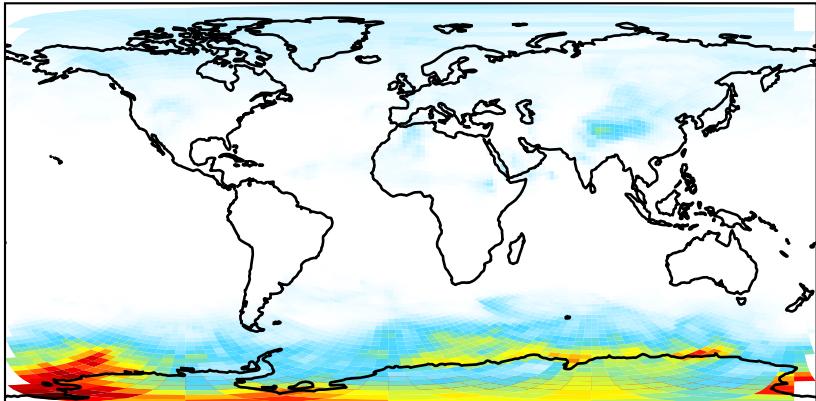
Ratio  
Dev/Ref, Fixed Range



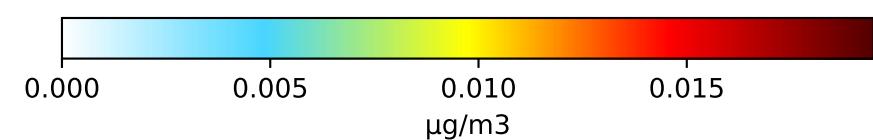
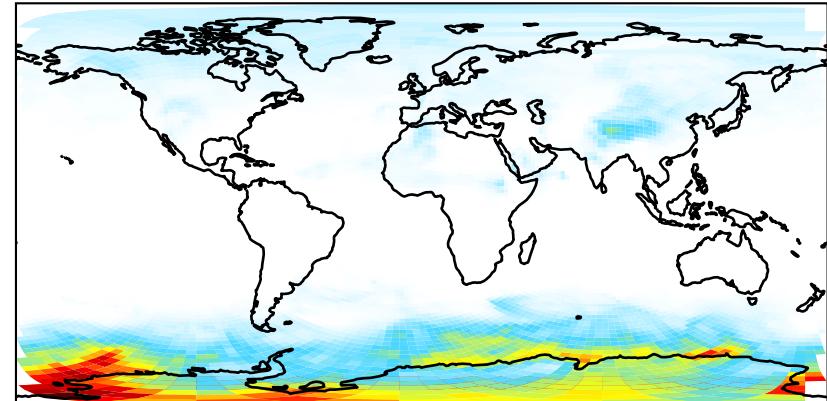
0.50      0.75      1.00      1.50      2.00  
unitless

# SpeciesConc\_SALACL

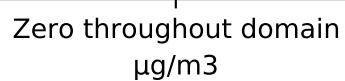
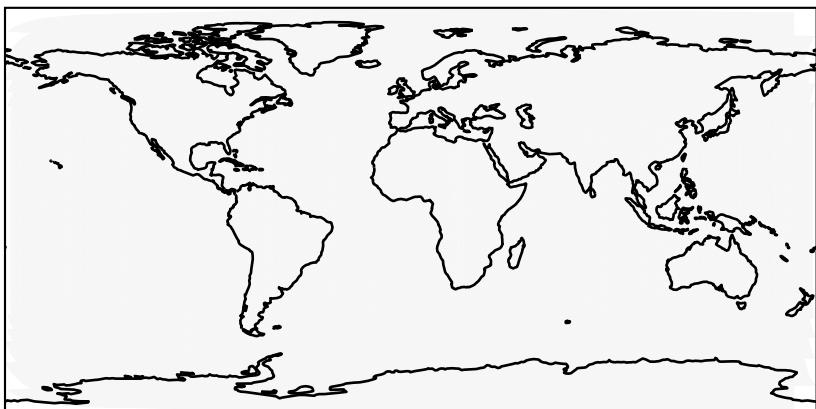
GCHP\_13.2.0-beta.0 (Ref)  
c48



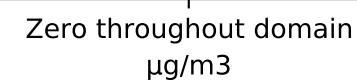
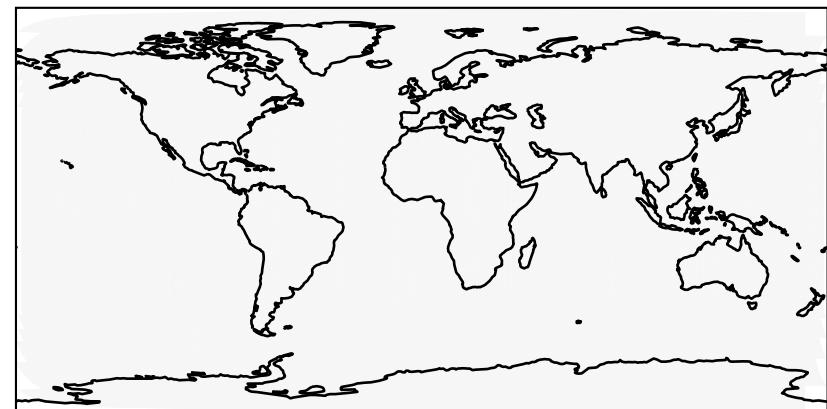
GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48



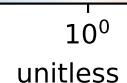
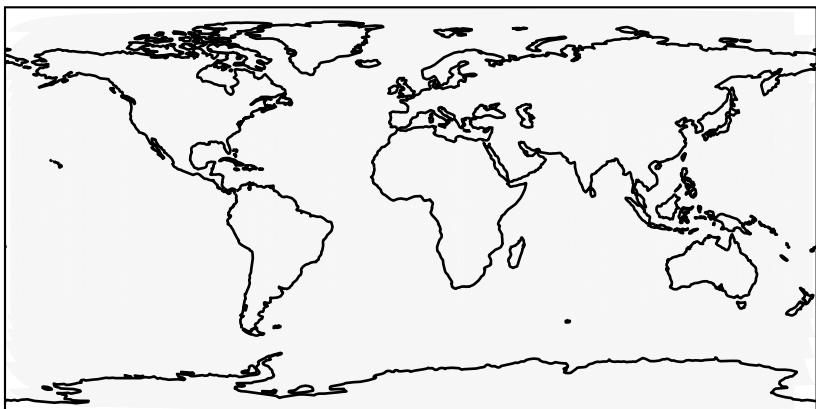
Difference  
Dev - Ref, Dynamic Range



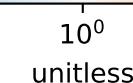
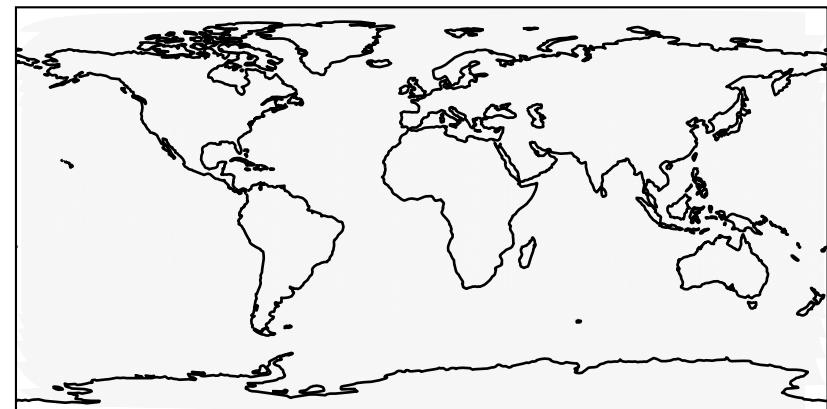
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

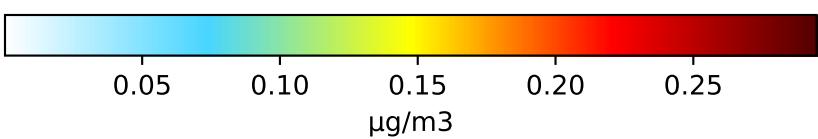
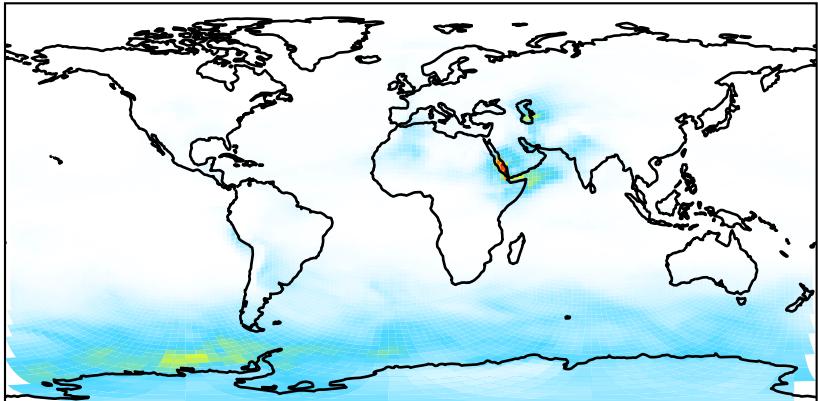


Ratio  
Dev/Ref, Fixed Range

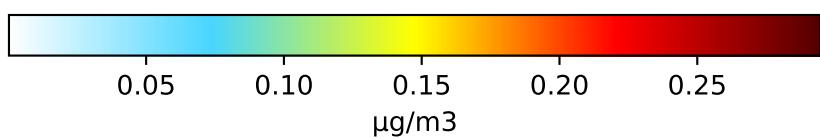
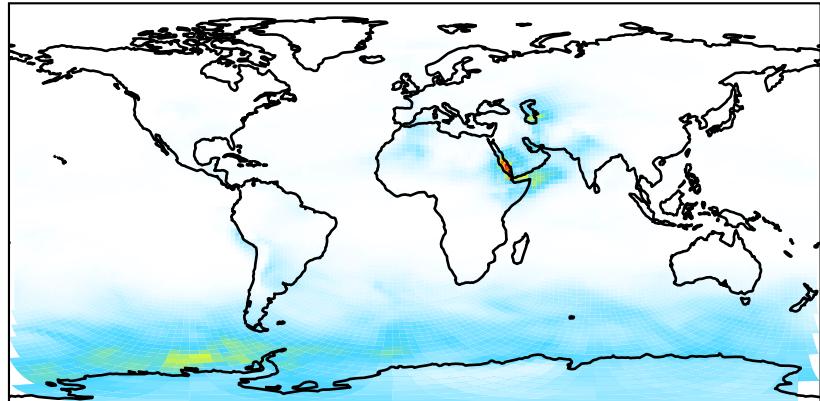


# SpeciesConc\_SALC

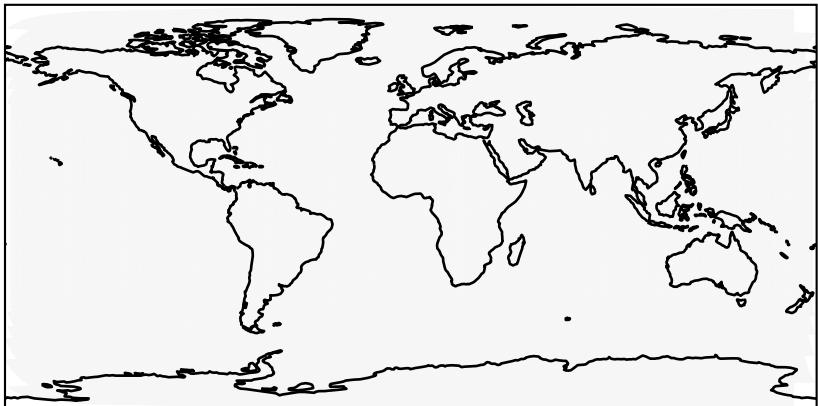
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

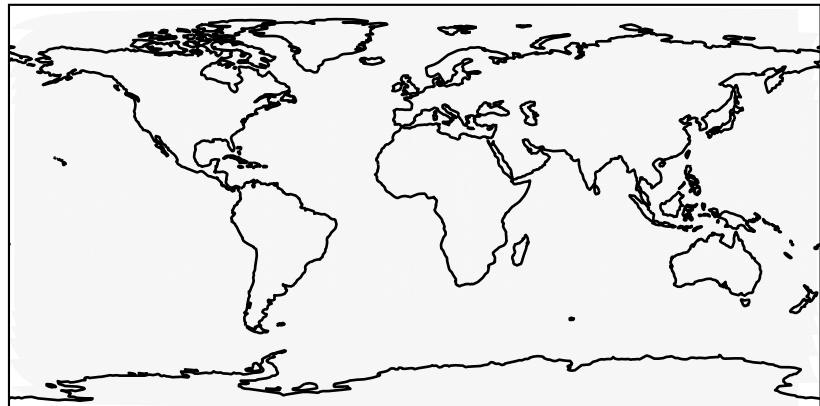


Difference  
Dev - Ref, Dynamic Range



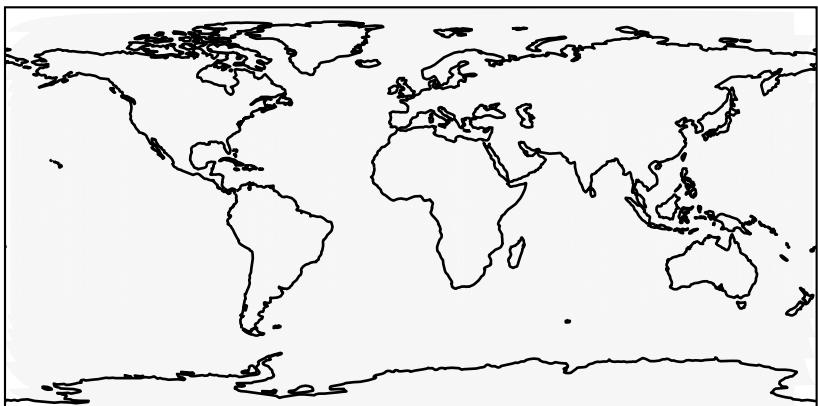
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



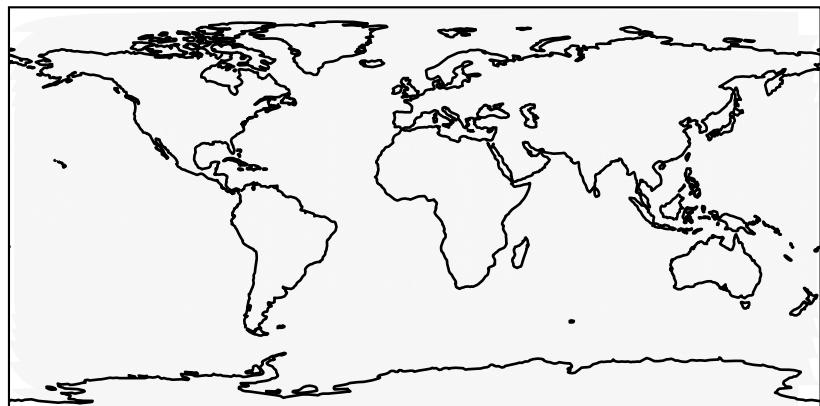
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



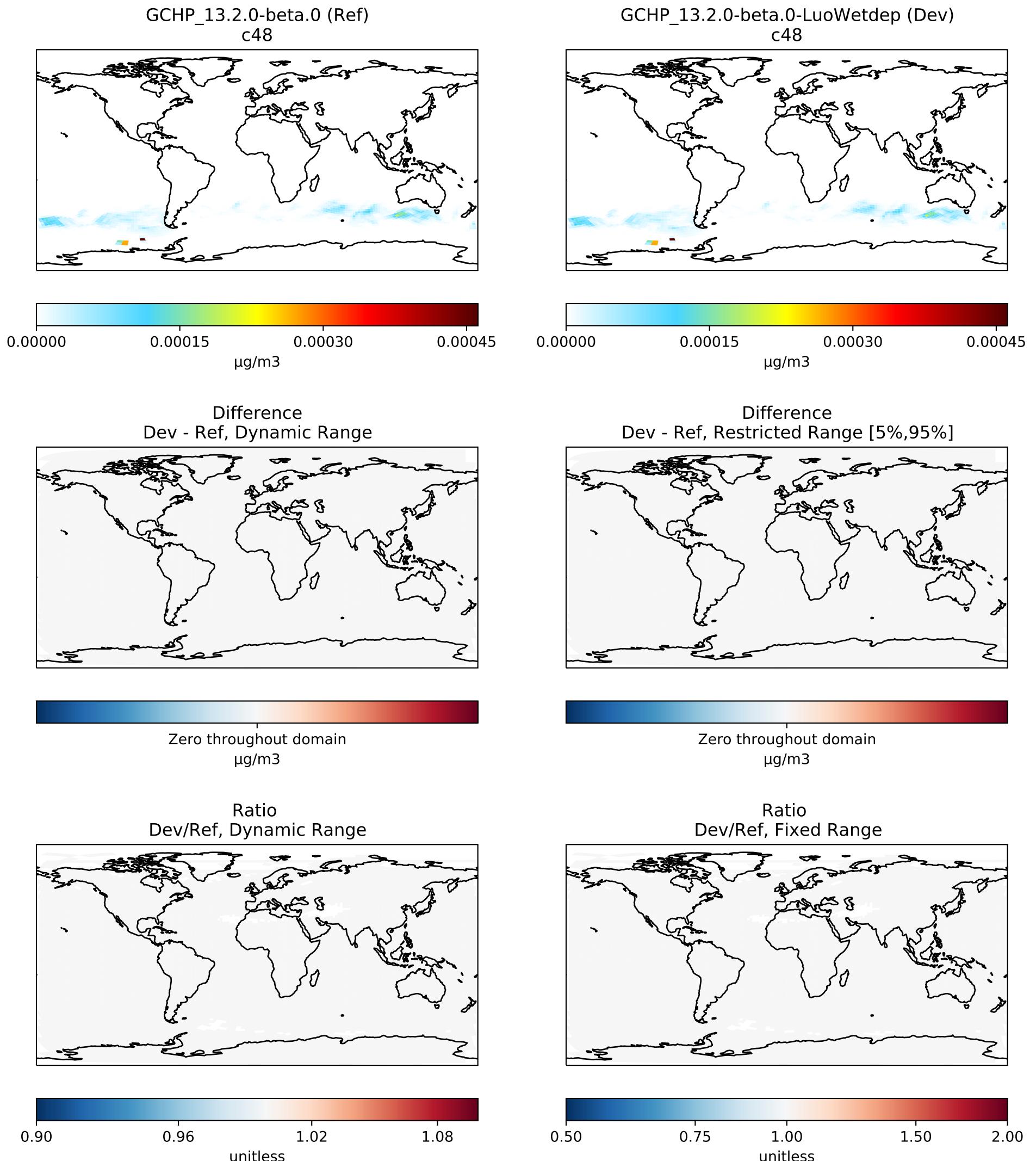
$10^0$   
unitless

Ratio  
Dev/Ref, Fixed Range



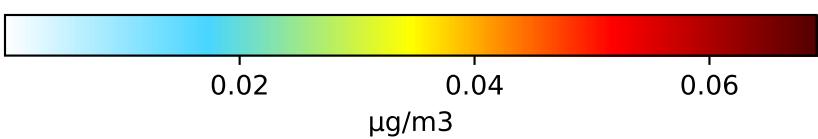
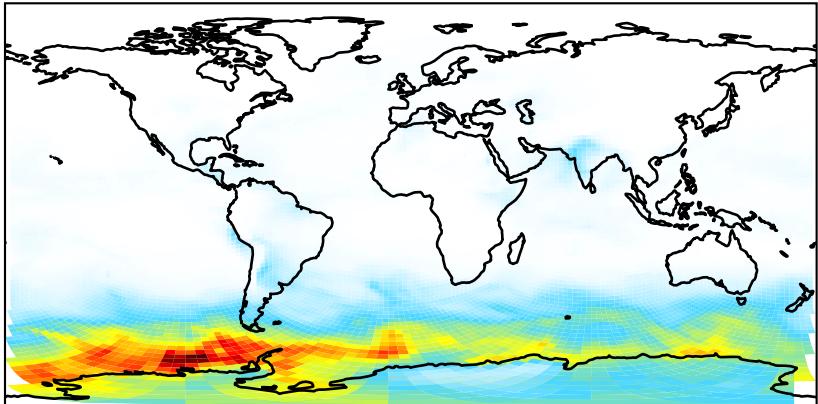
$10^0$   
unitless

# SpeciesConc\_SALCAL

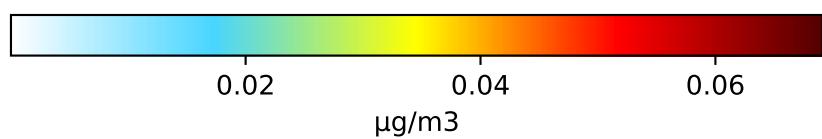
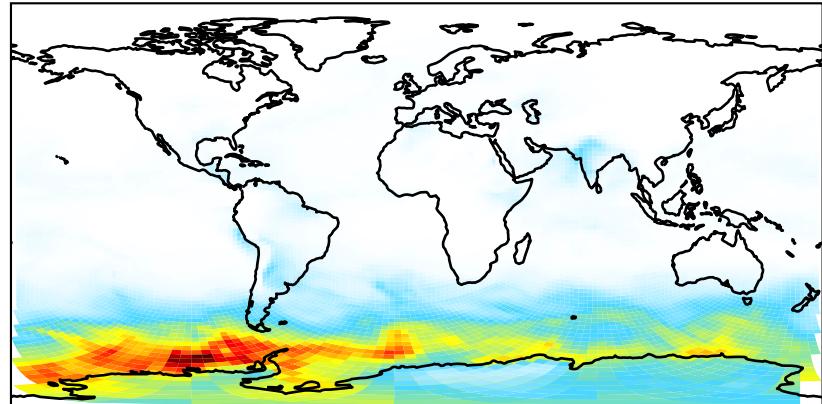


# SpeciesConc\_SALCCL

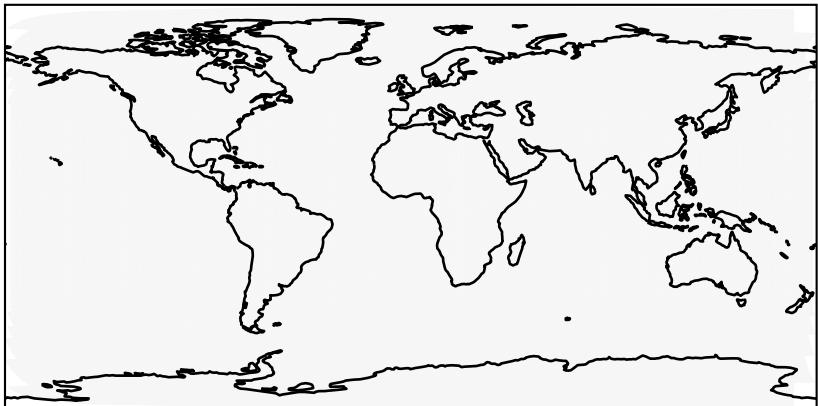
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

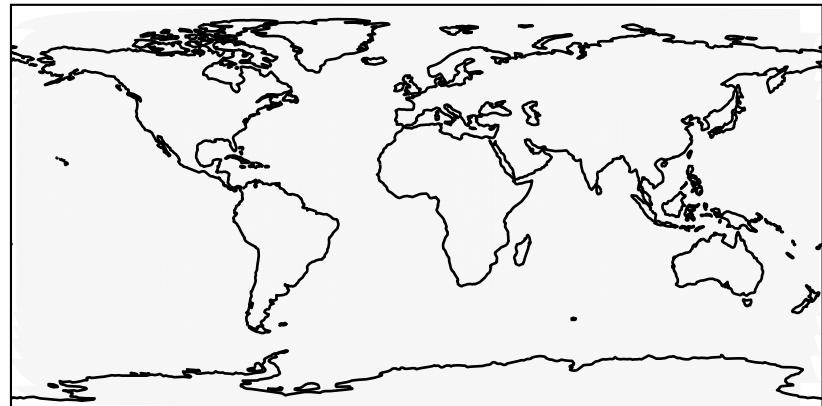


Difference  
Dev - Ref, Dynamic Range



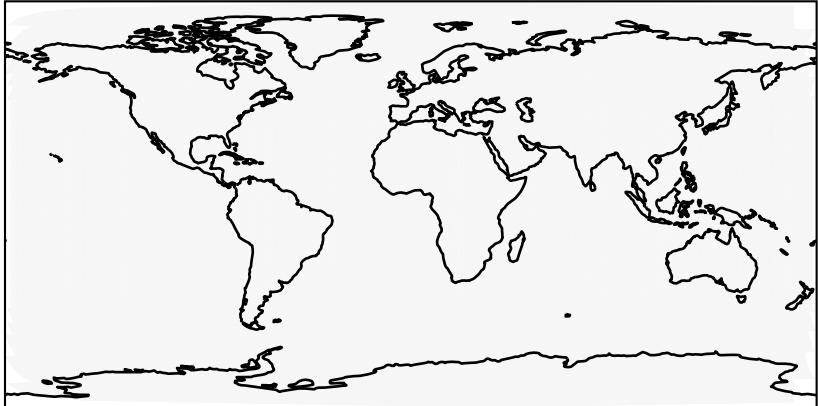
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



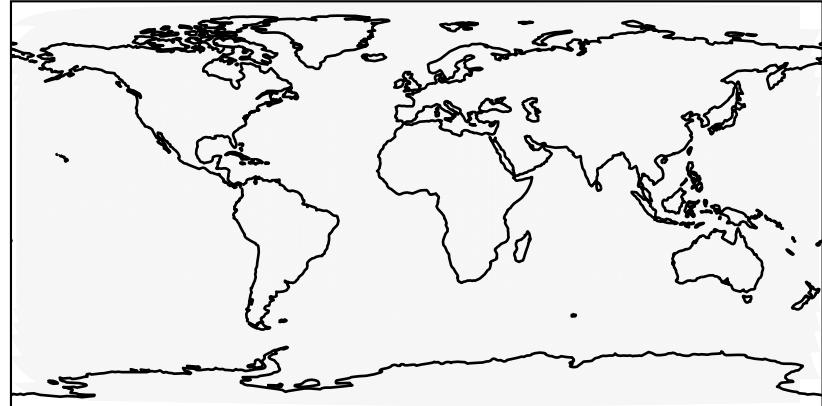
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

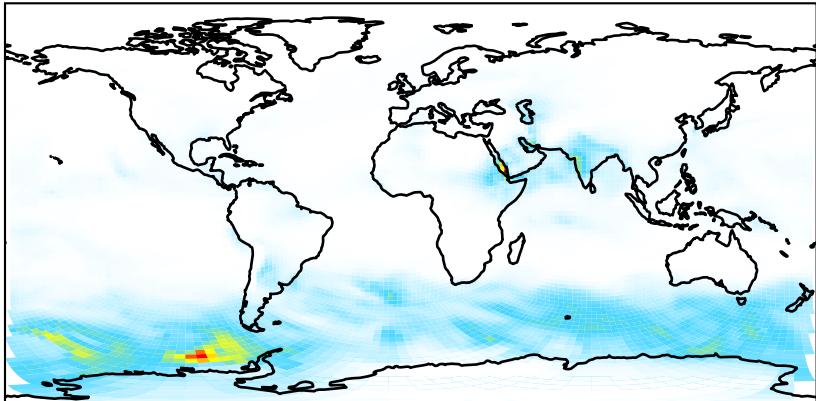
Ratio  
Dev/Ref, Fixed Range



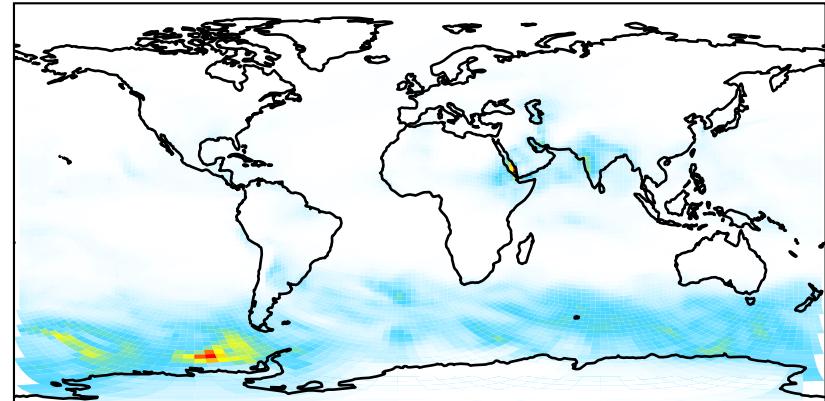
$10^0$   
unitless

# SpeciesConc\_SO4s

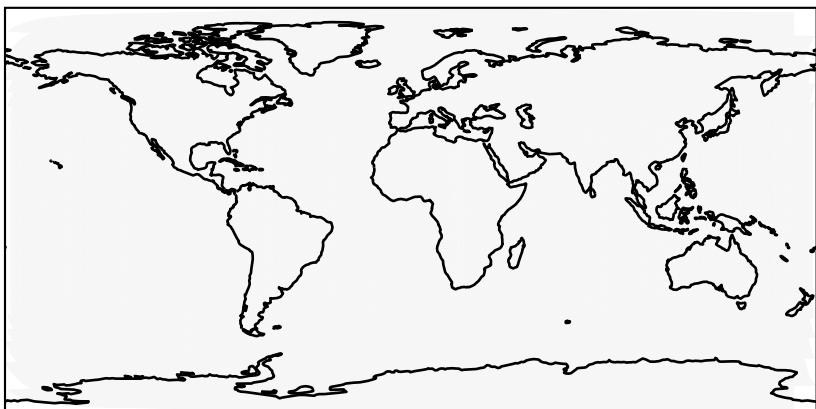
GCHP\_13.2.0-beta.0 (Ref)  
c48



GCHP\_13.2.0-beta.0-LuoWetdep (Dev)  
c48

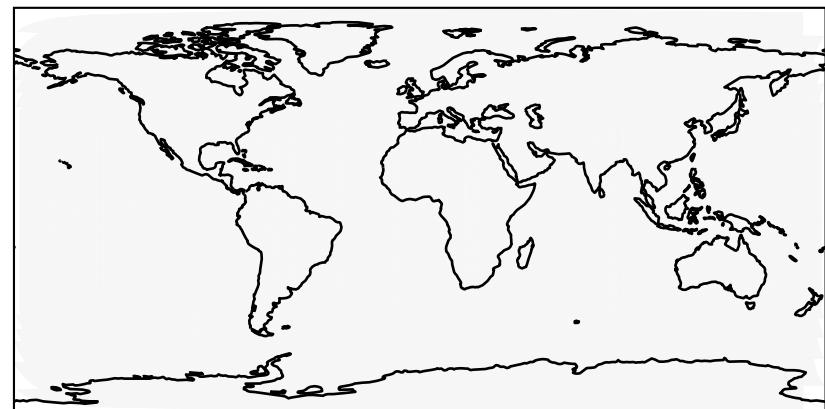


Difference  
Dev - Ref, Dynamic Range



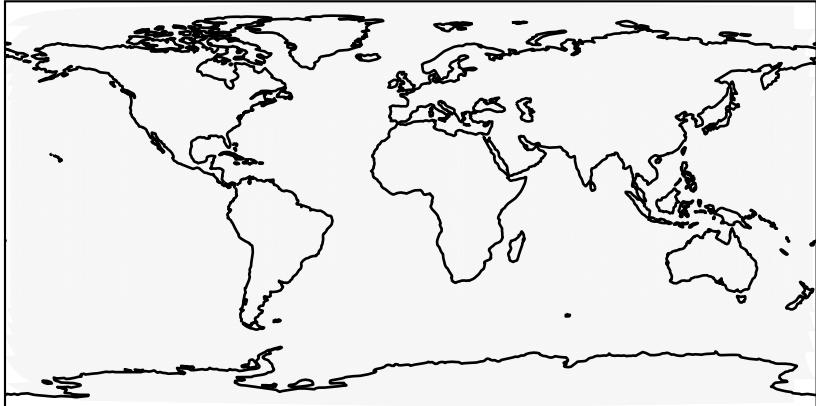
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

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



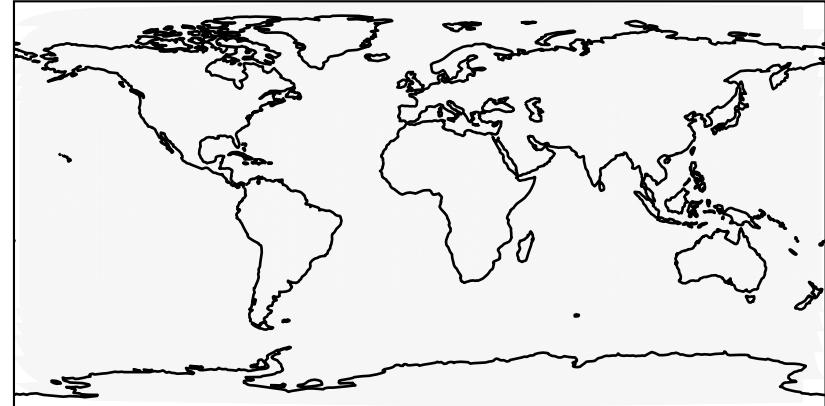
Zero throughout domain  
 $\mu\text{g}/\text{m}^3$

Ratio  
Dev/Ref, Dynamic Range



$10^0$   
unitless

Ratio  
Dev/Ref, Fixed Range



$10^0$   
unitless