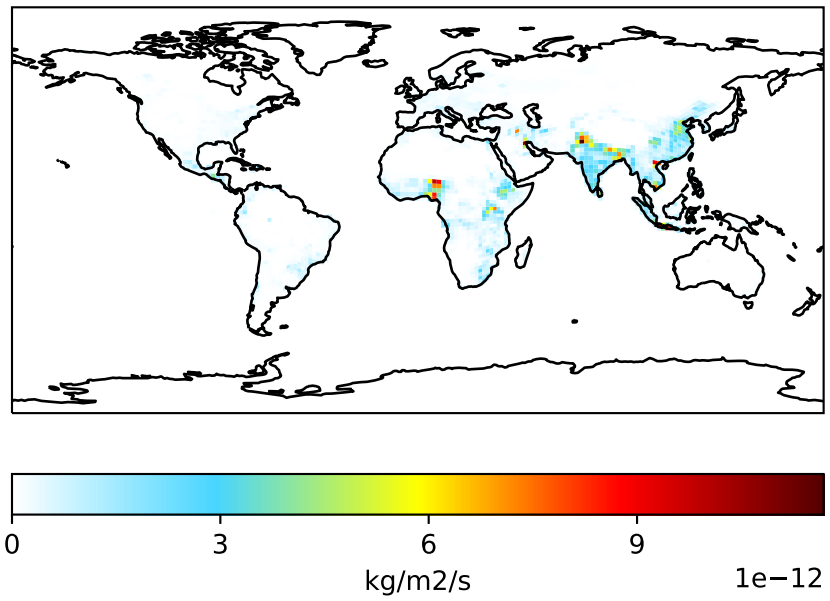
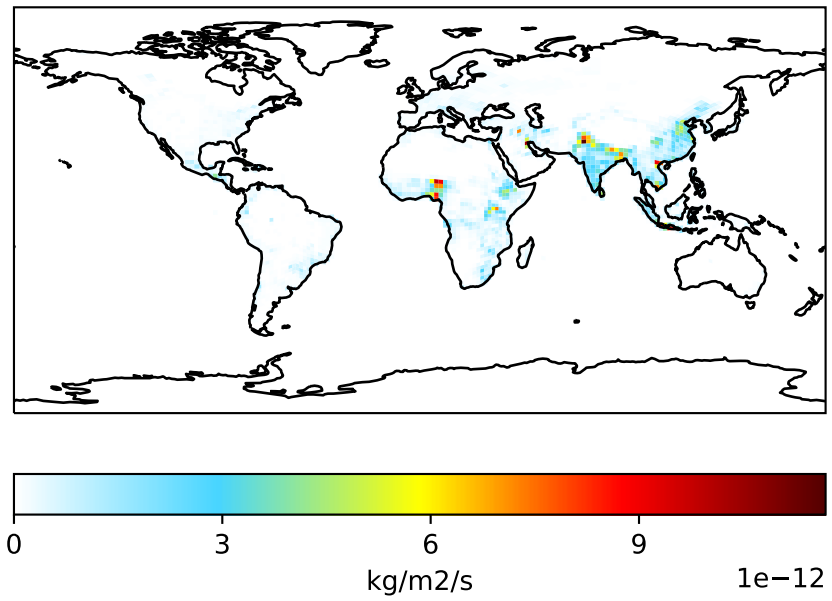
EmisALD2_Anthro

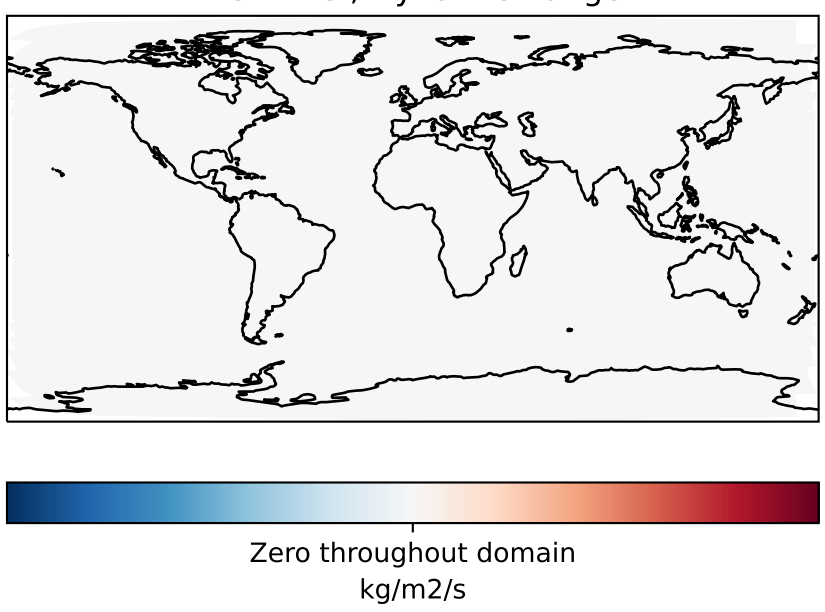
GCHP_13.3.0-rc.1 (Ref)
c48



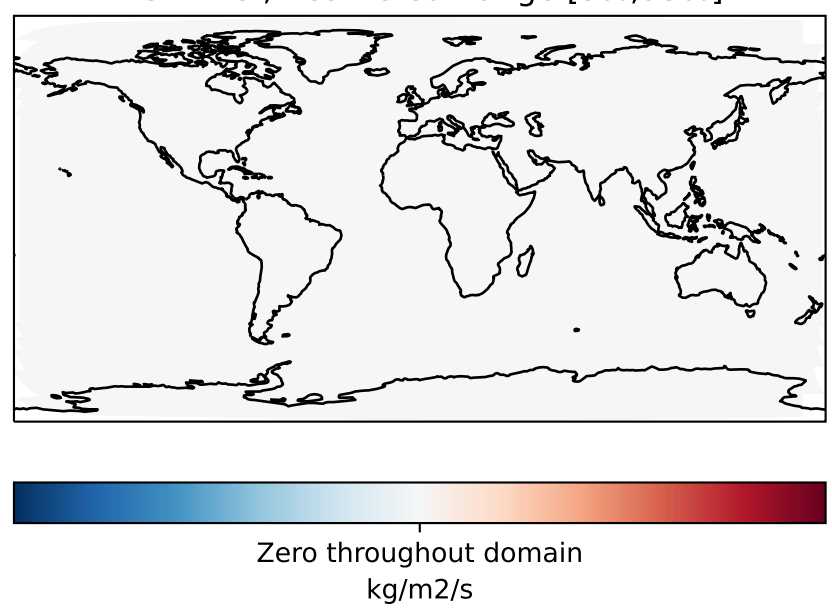
GCHP_13.4.0-rc.4 (Dev)
c48



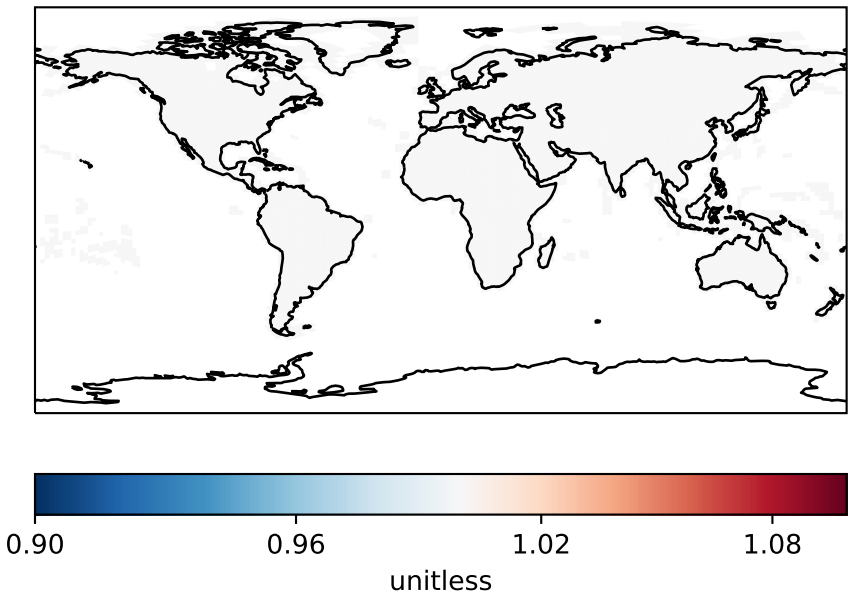
Difference
Dev - Ref, Dynamic Range



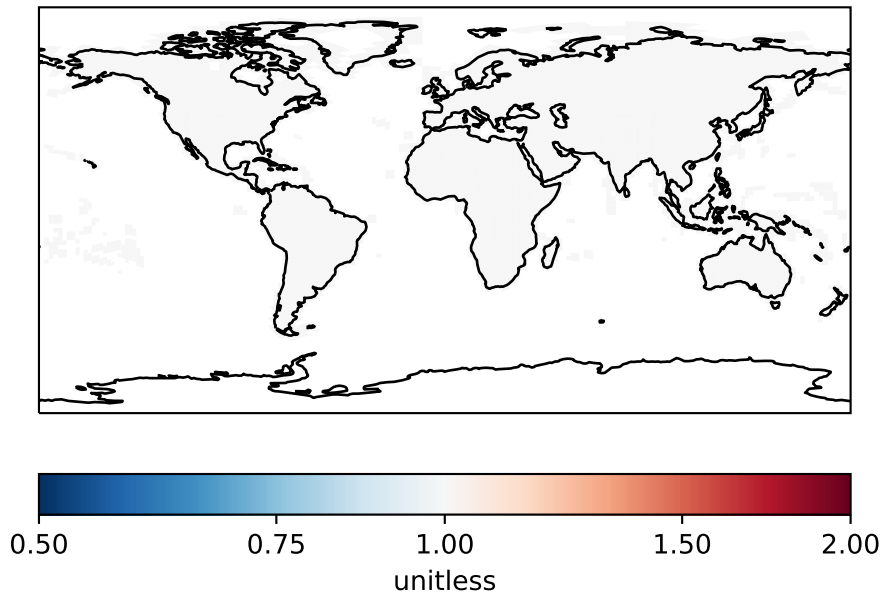
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

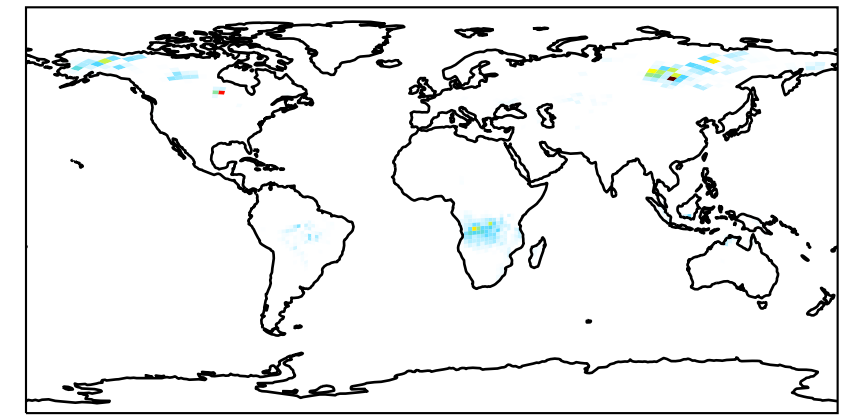


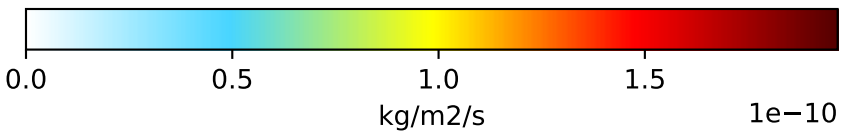
Ratio
Dev/Ref, Fixed Range



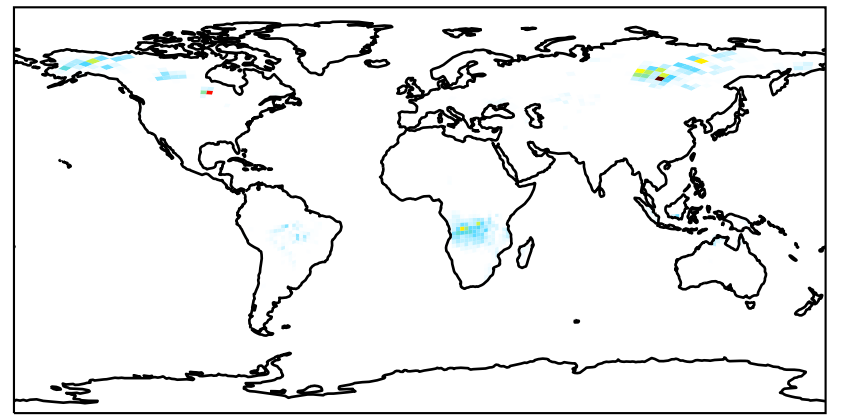
EmisALD2_BioBurn

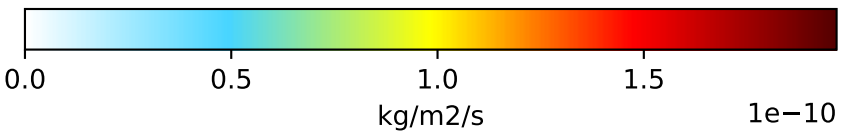
GCHP_13.3.0-rc.1 (Ref)
c48



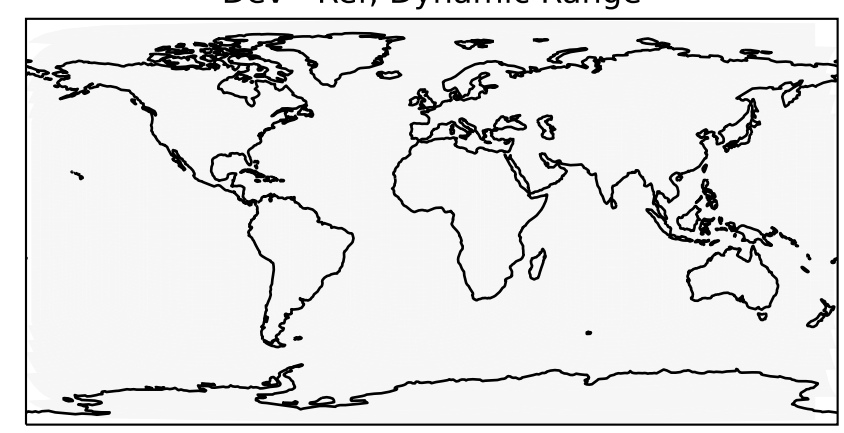


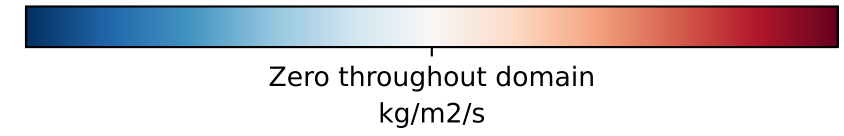
GCHP_13.4.0-rc.4 (Dev)
c48





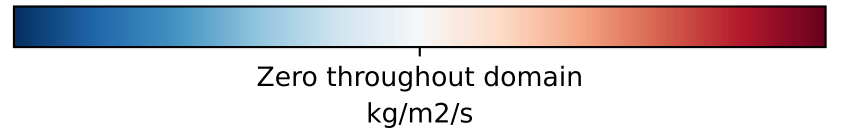
Difference
Dev - Ref, Dynamic Range



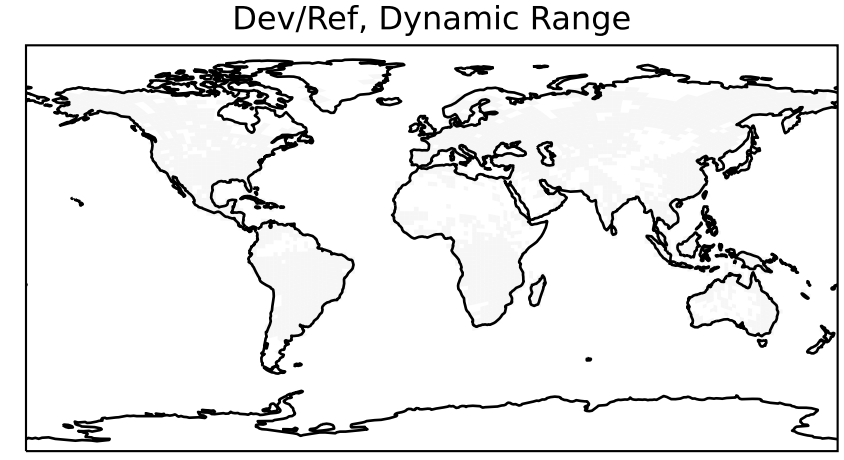


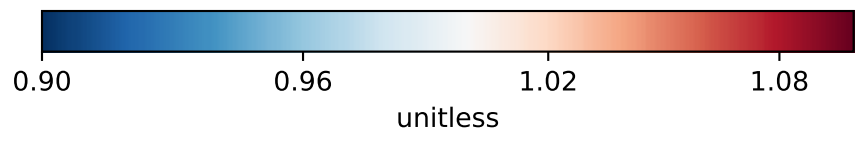
Difference
Dev - Ref, Restricted Range [5%,95%]



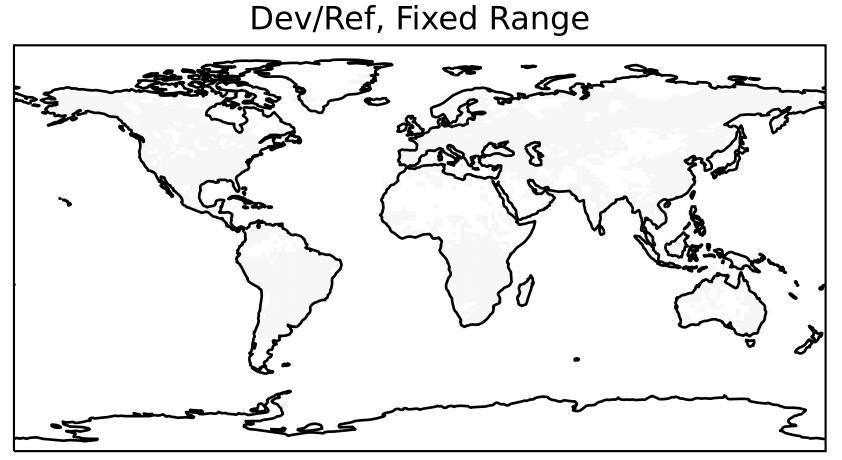


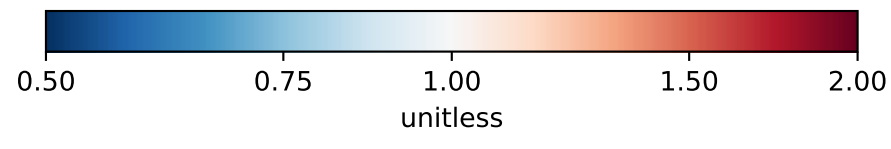
Ratio
Dev/Ref, Dynamic Range





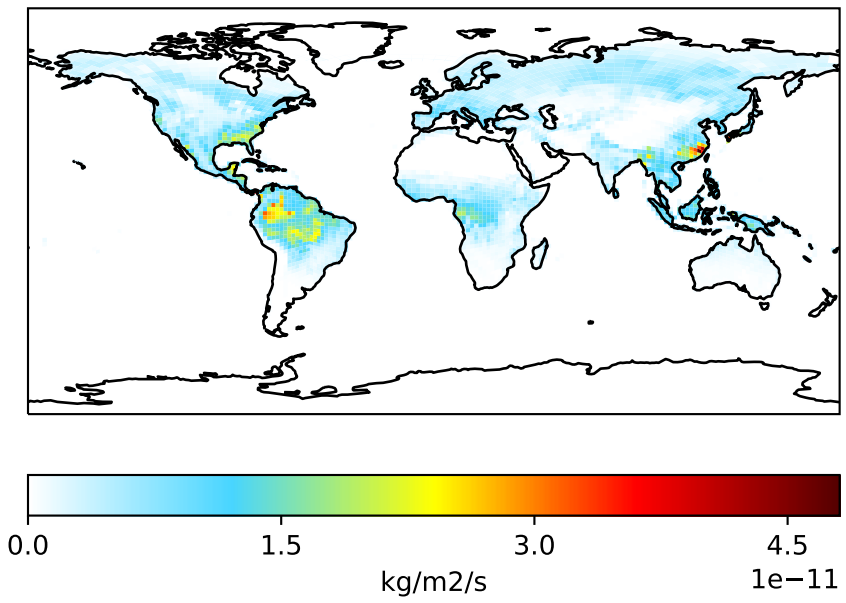
Ratio
Dev/Ref, Fixed Range



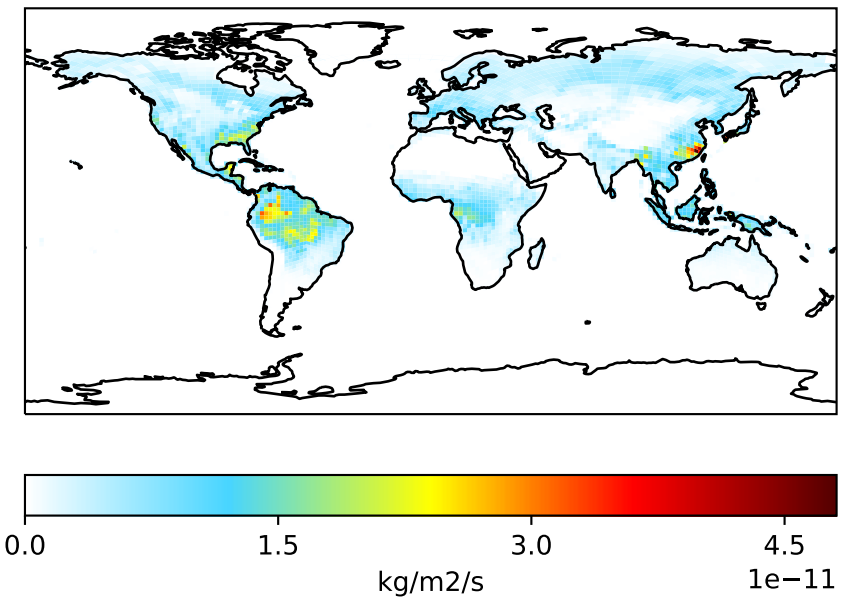


EmisALD2_Biogenic

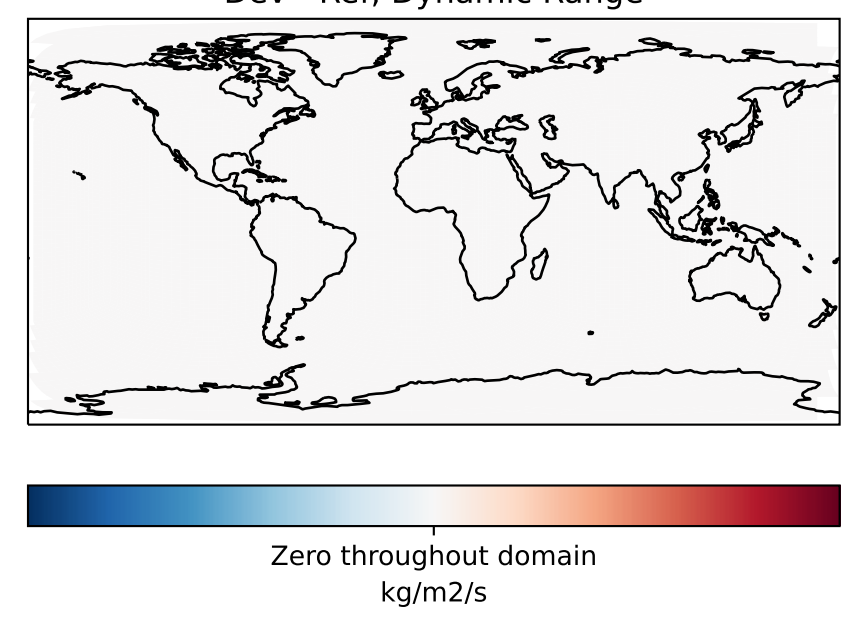
GCHP_13.3.0-rc.1 (Ref)
c48



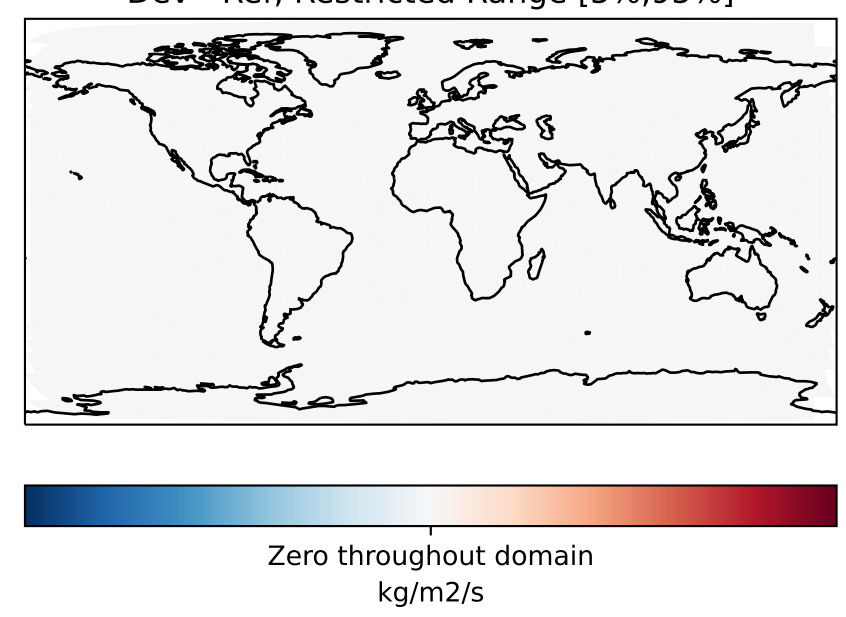
GCHP_13.4.0-rc.4 (Dev)
c48



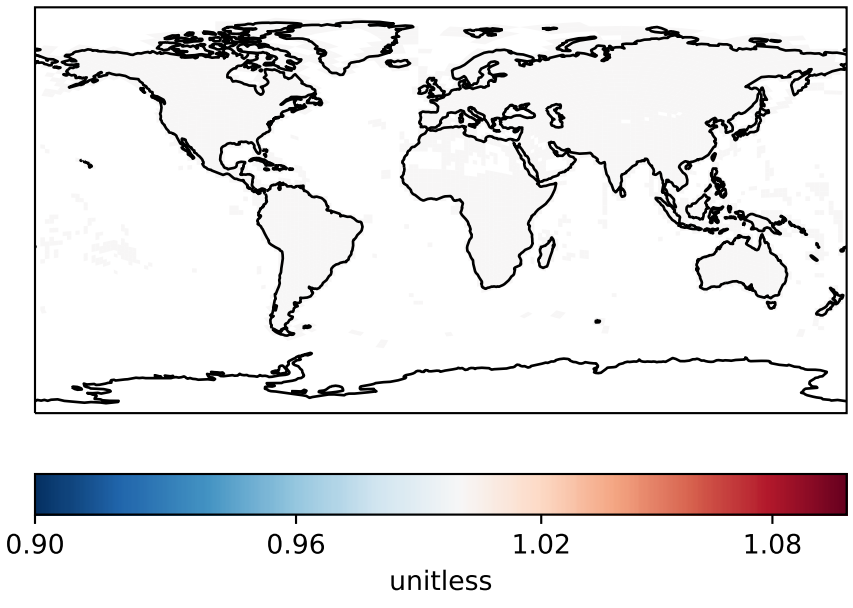
Difference
Dev - Ref, Dynamic Range



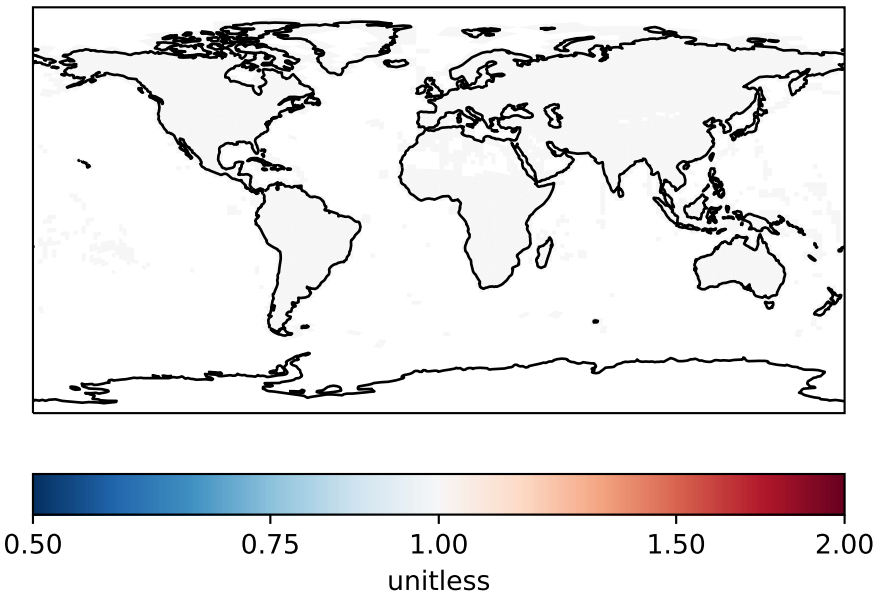
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

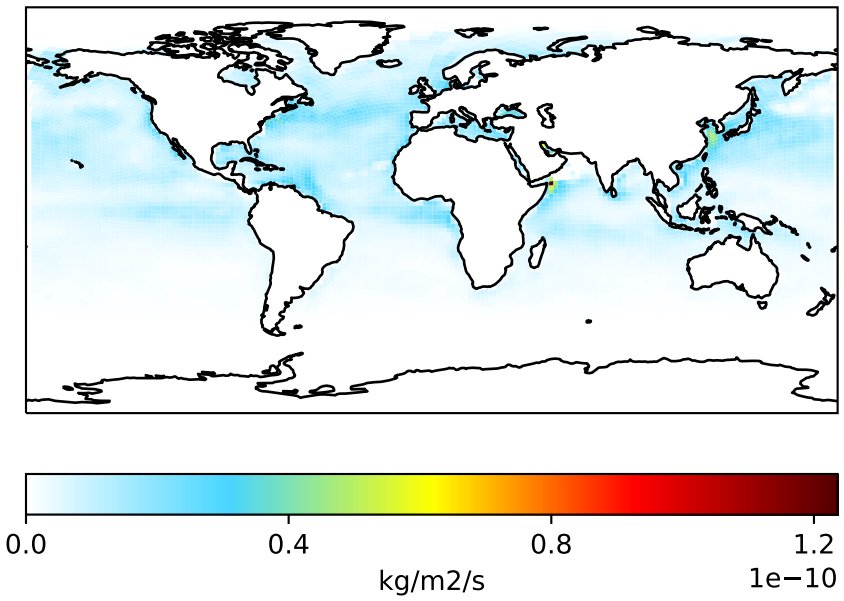


Ratio
Dev/Ref, Fixed Range

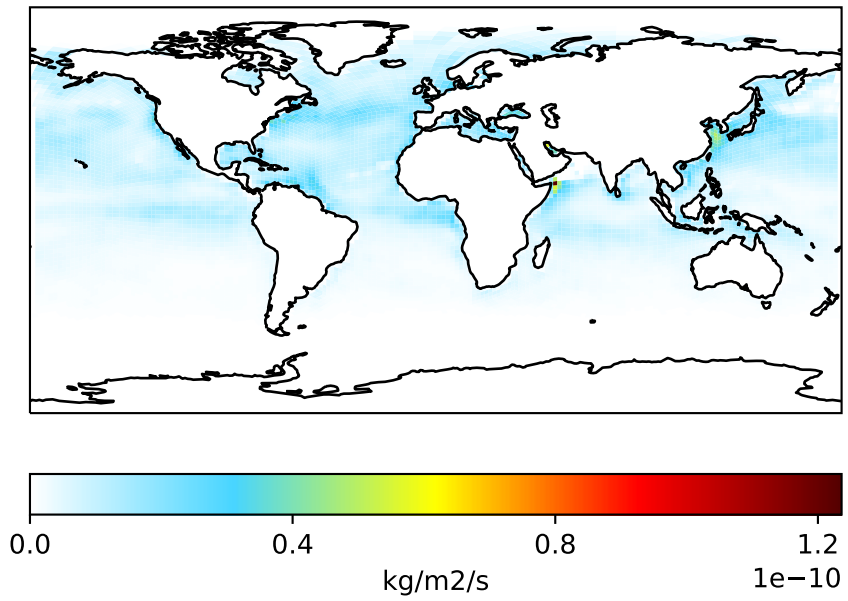


EmisALD2_Ocean

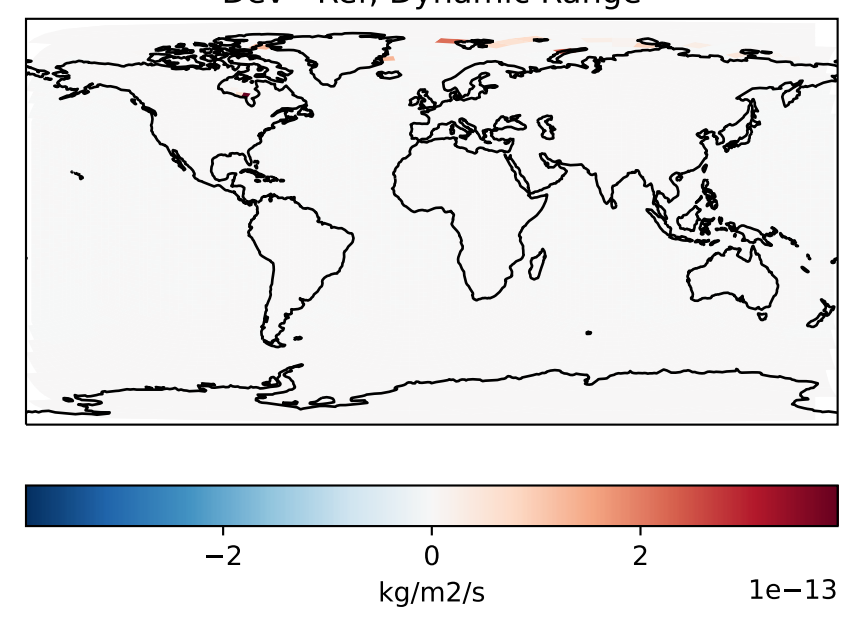
GCHP_13.3.0-rc.1 (Ref)
c48



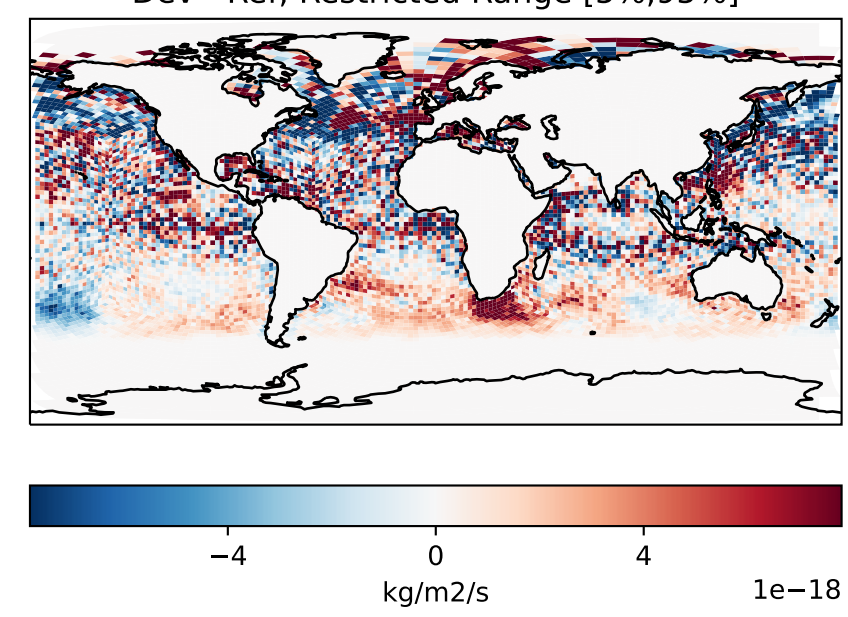
GCHP_13.4.0-rc.4 (Dev)
c48



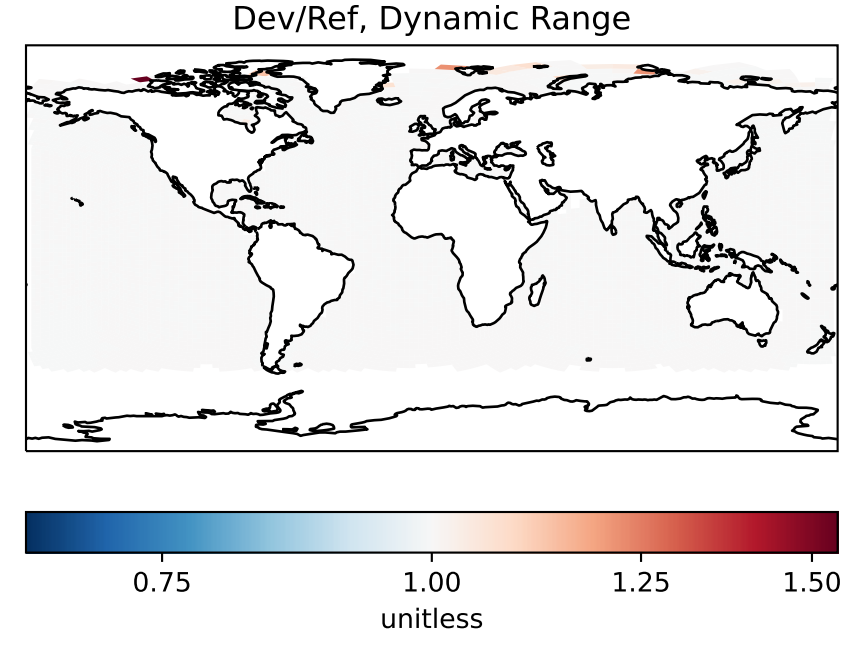
Difference
Dev - Ref, Dynamic Range



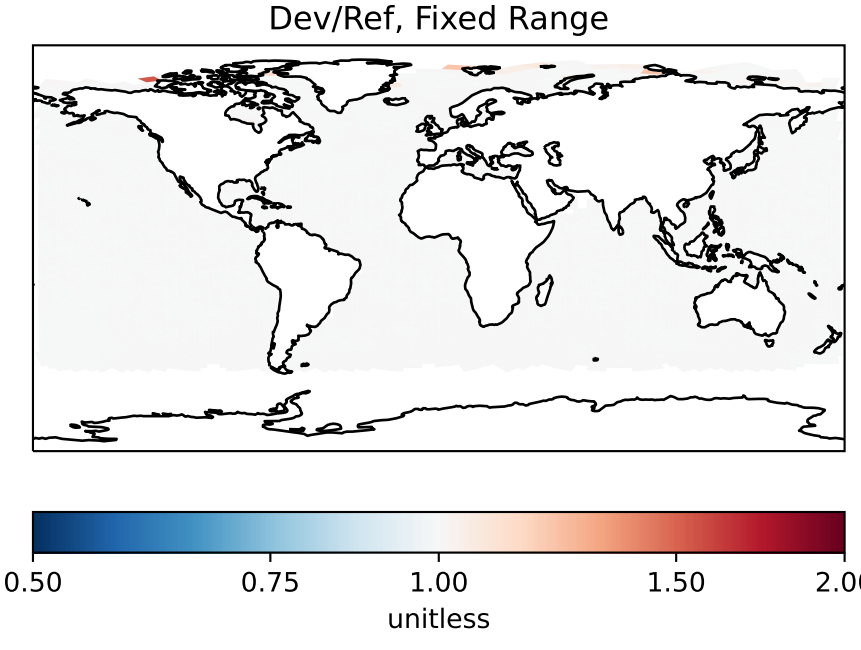
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

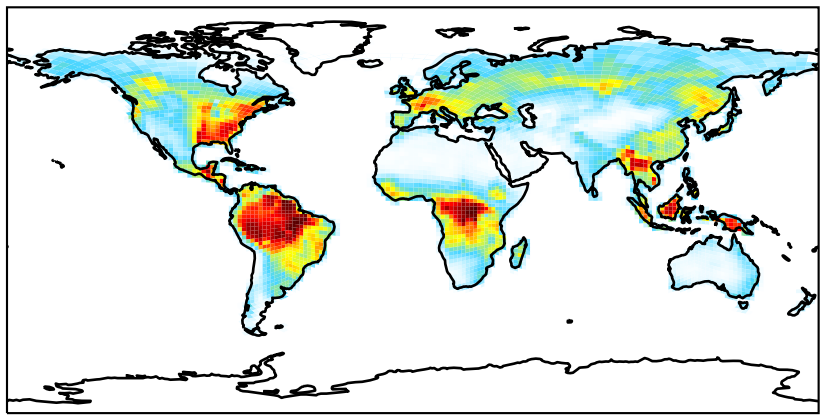


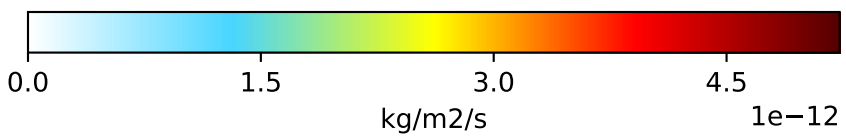
Ratio
Dev/Ref, Fixed Range



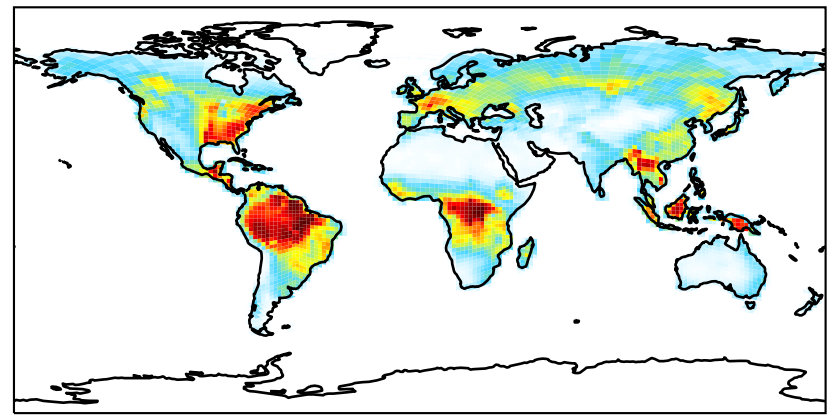
EmisALD2_PlantDecay

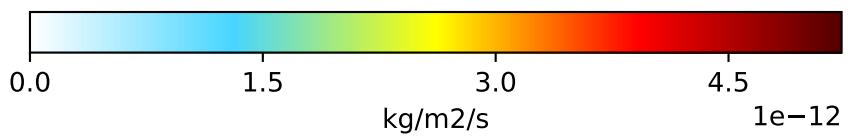
GCHP_13.3.0-rc.1 (Ref)
c48



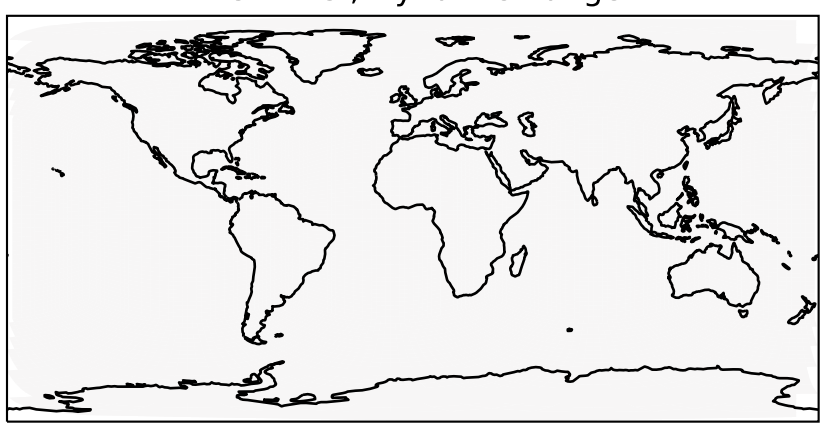


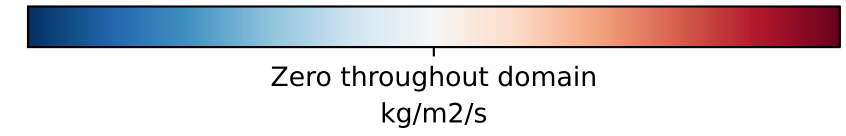
GCHP_13.4.0-rc.4 (Dev)
c48



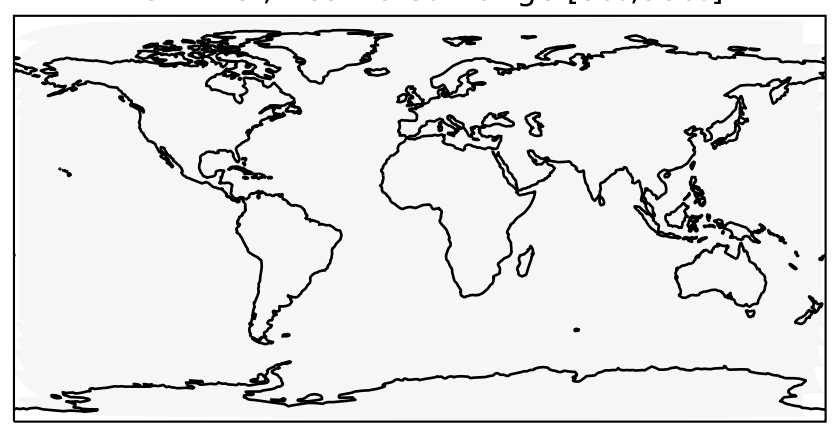


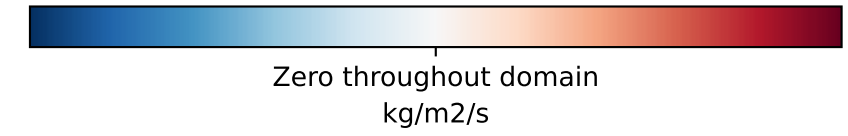
Difference
Dev - Ref, Dynamic Range



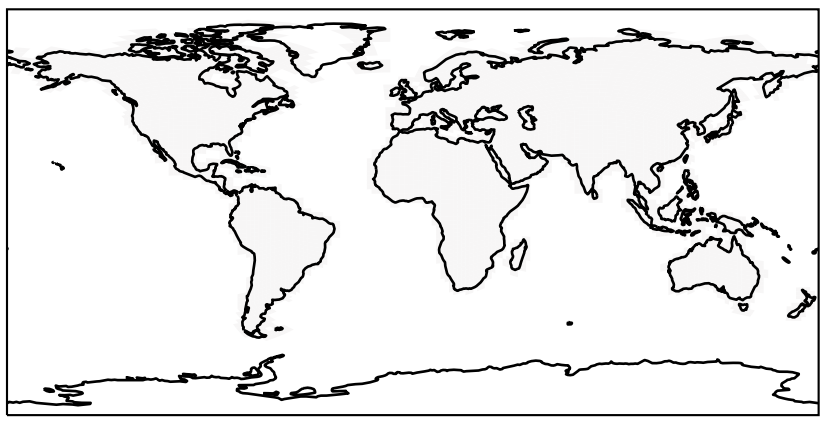


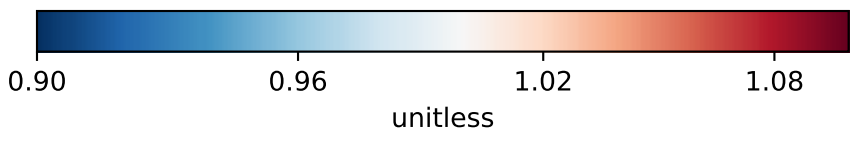
Difference
Dev - Ref, Restricted Range [5%,95%]



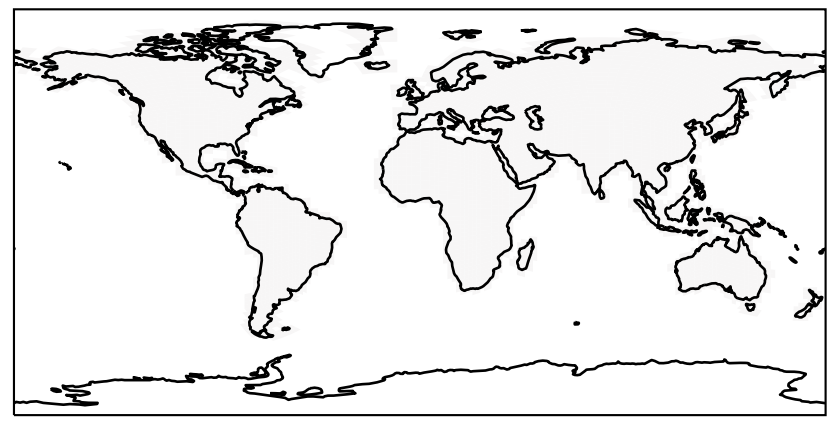


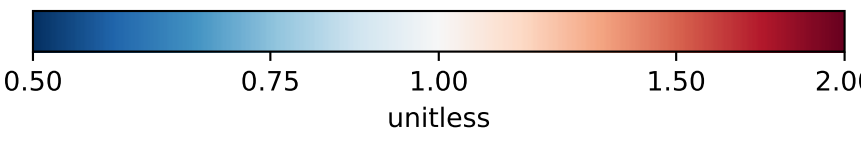
Ratio
Dev/Ref, Dynamic Range





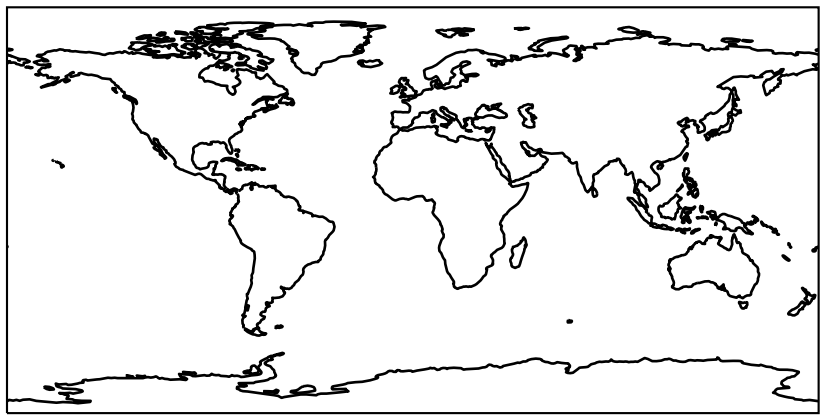
Ratio
Dev/Ref, Fixed Range





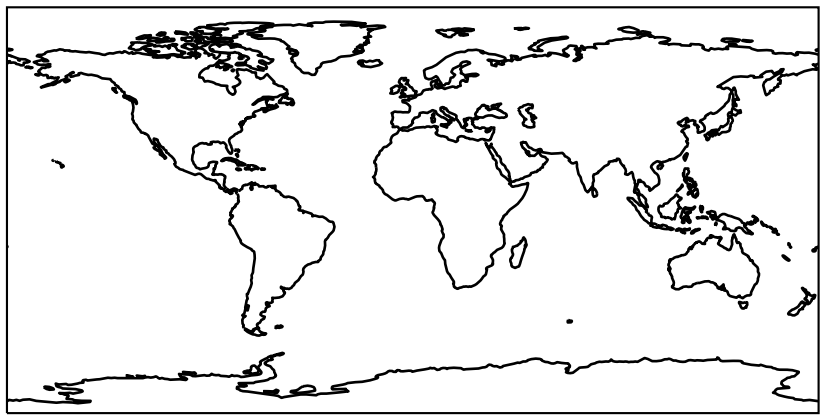
EmisALD2_Ship

GCHP_13.3.0-rc.1 (Ref)
c48



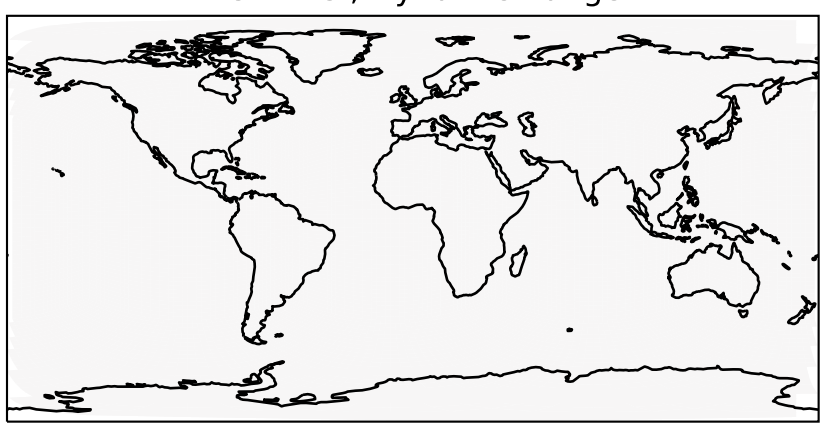
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kg/m2/s

GCHP_13.4.0-rc.4 (Dev)
c48



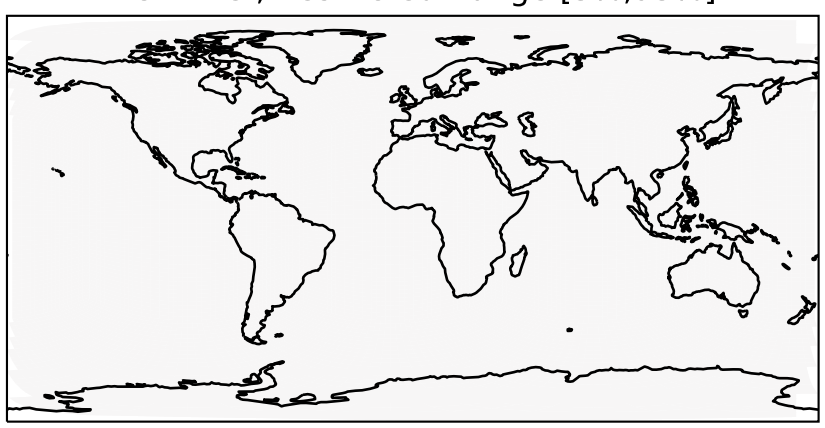
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



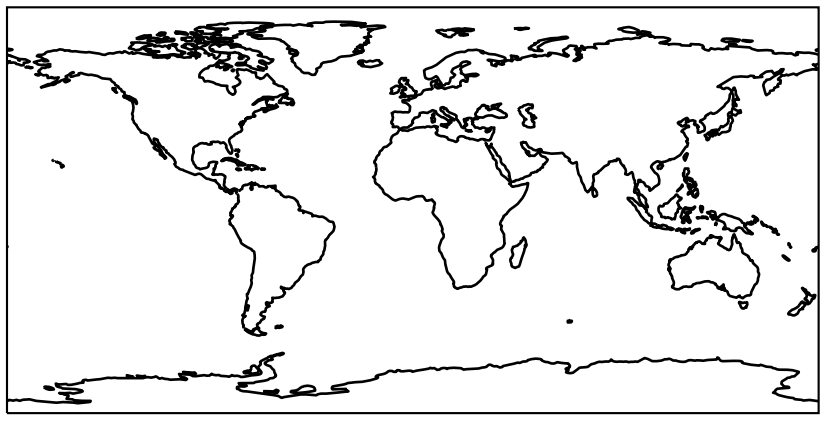
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kg/m2/s

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



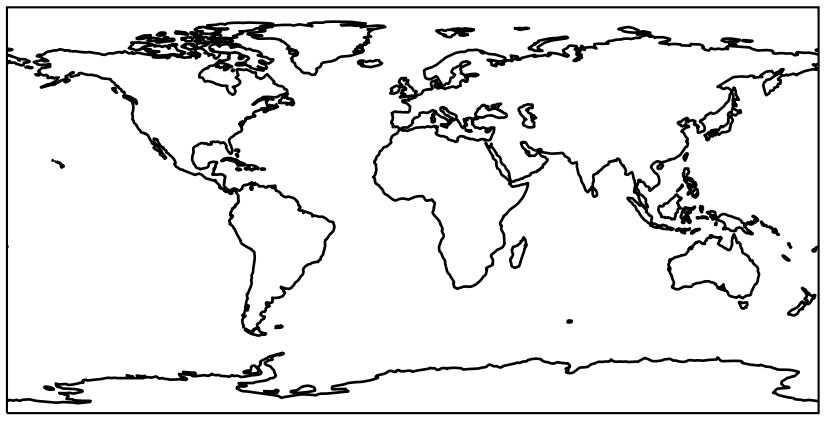
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
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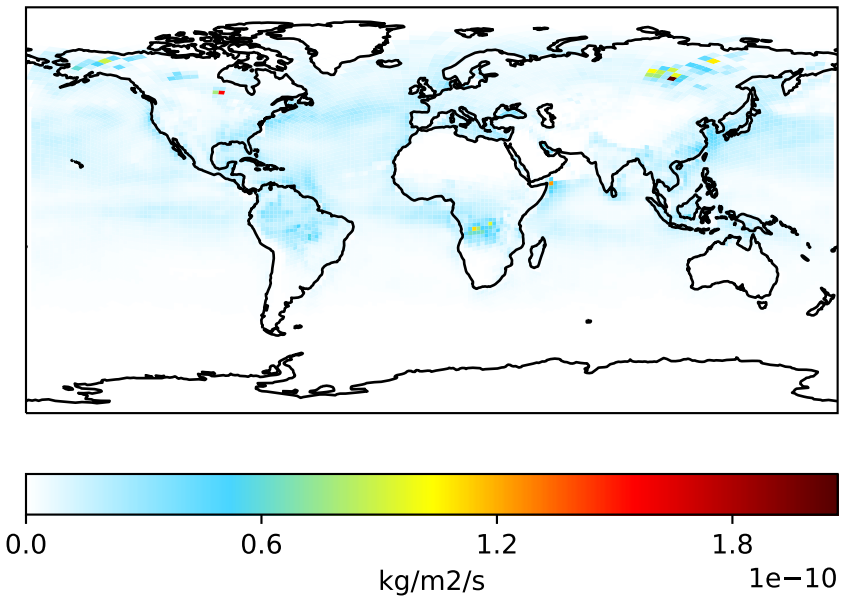
Ratio
Dev/Ref, Fixed Range



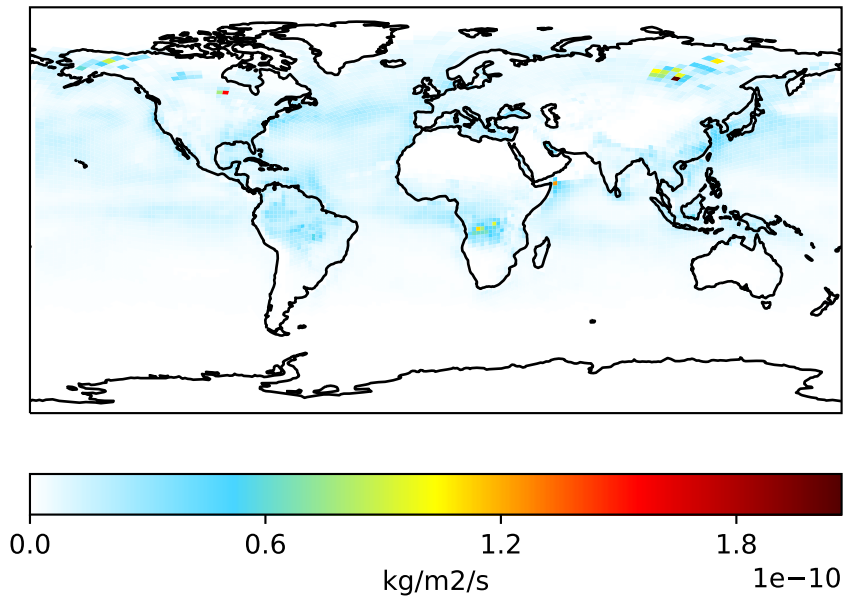
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EmisALD2_Total

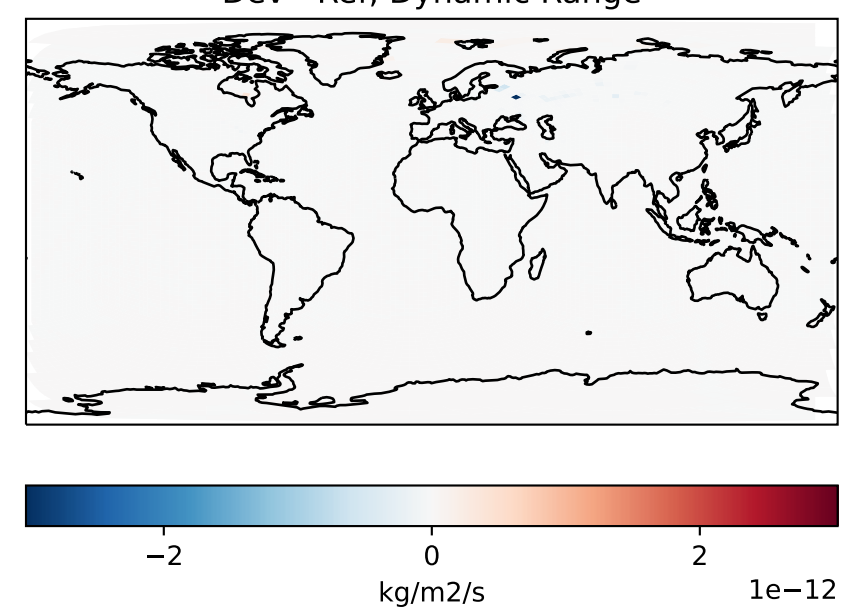
GCHP_13.3.0-rc.1 (Ref)
c48



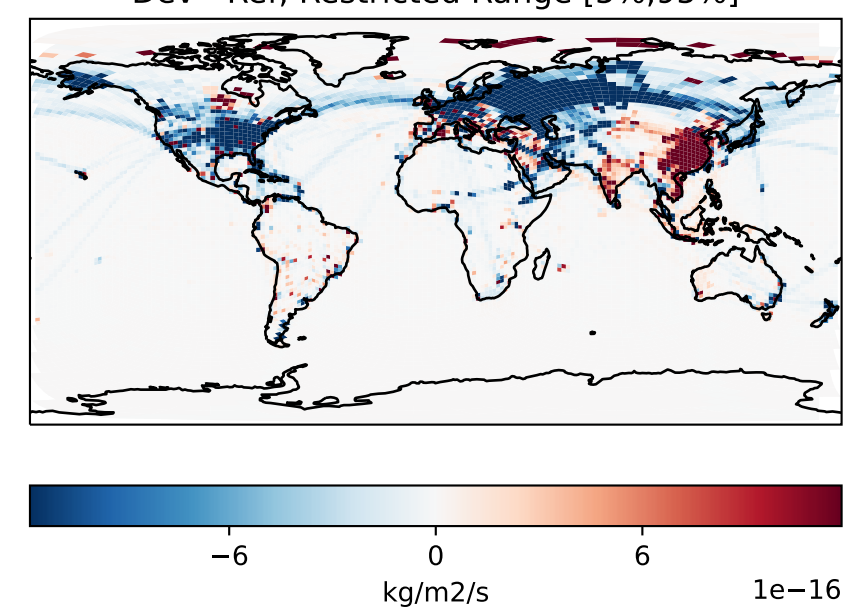
GCHP_13.4.0-rc.4 (Dev)
c48



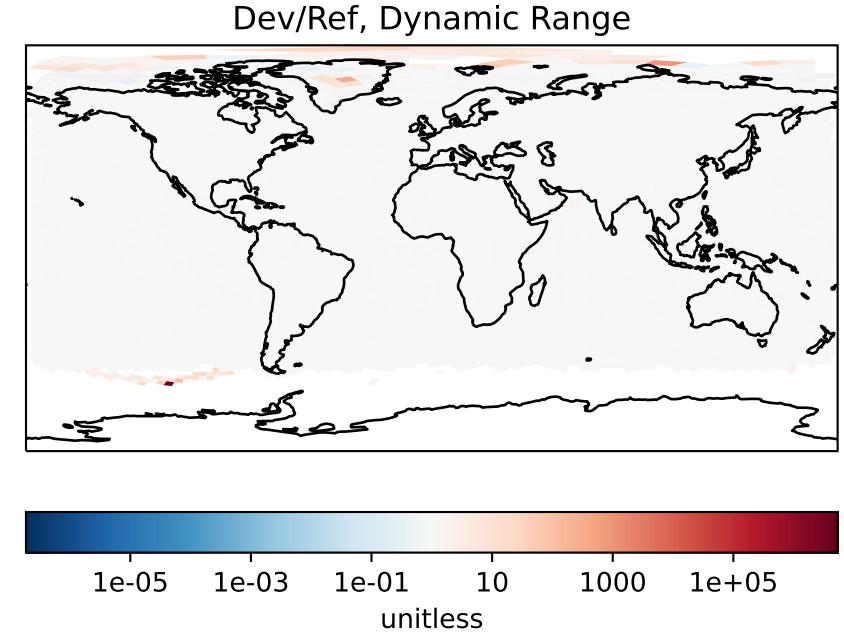
Difference
Dev - Ref, Dynamic Range



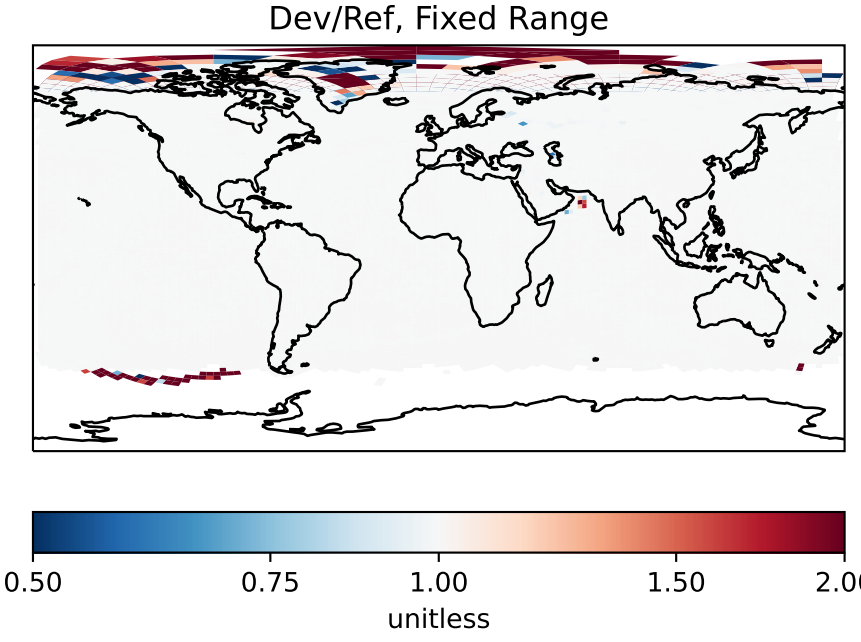
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

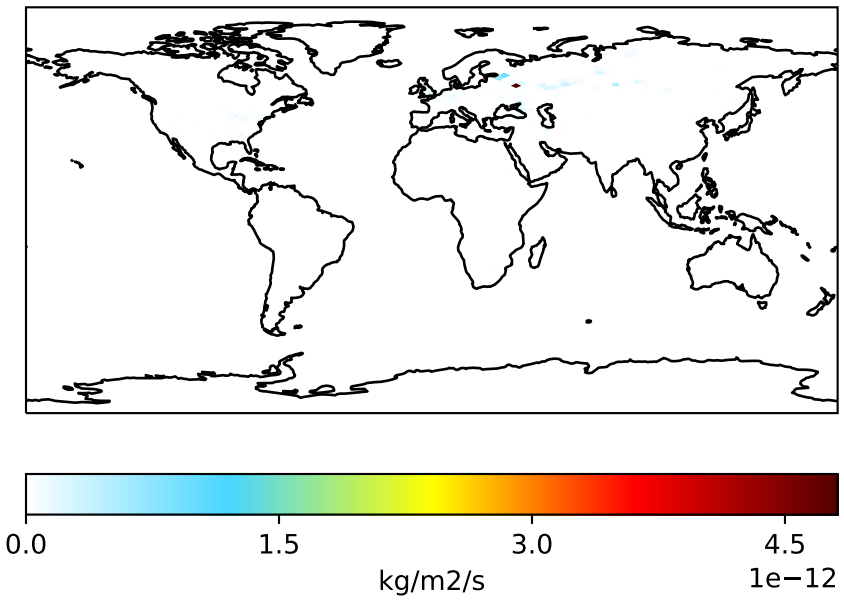


Ratio
Dev/Ref, Fixed Range

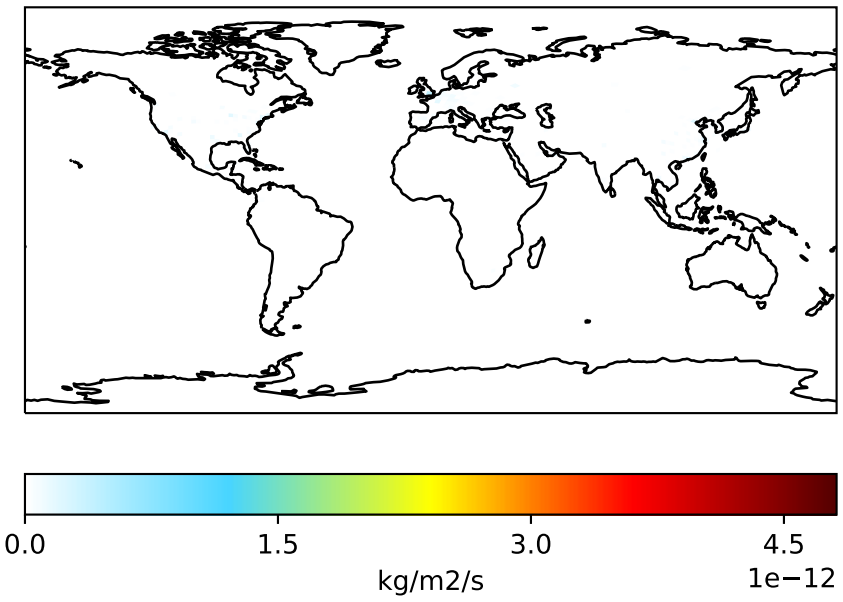


EmisCH2O_Aircraft

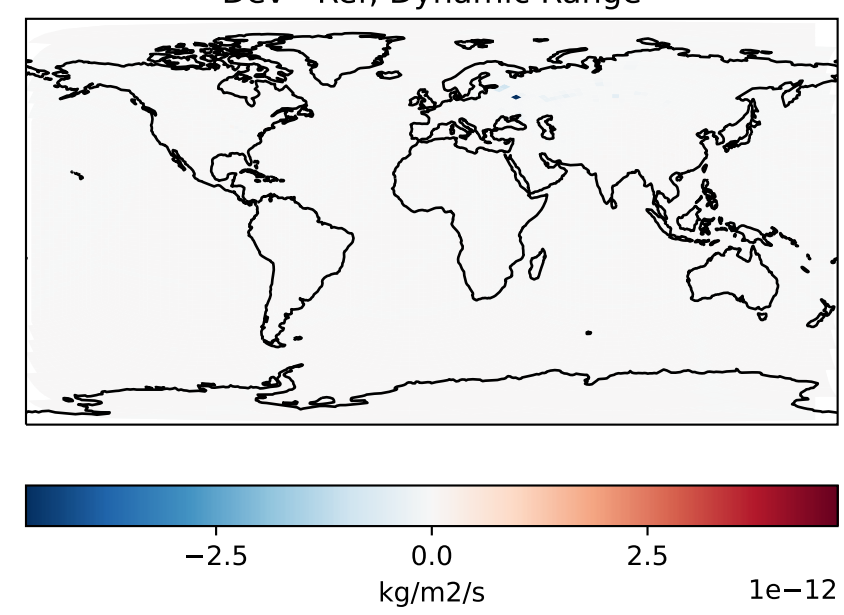
GCHP_13.3.0-rc.1 (Ref)
c48



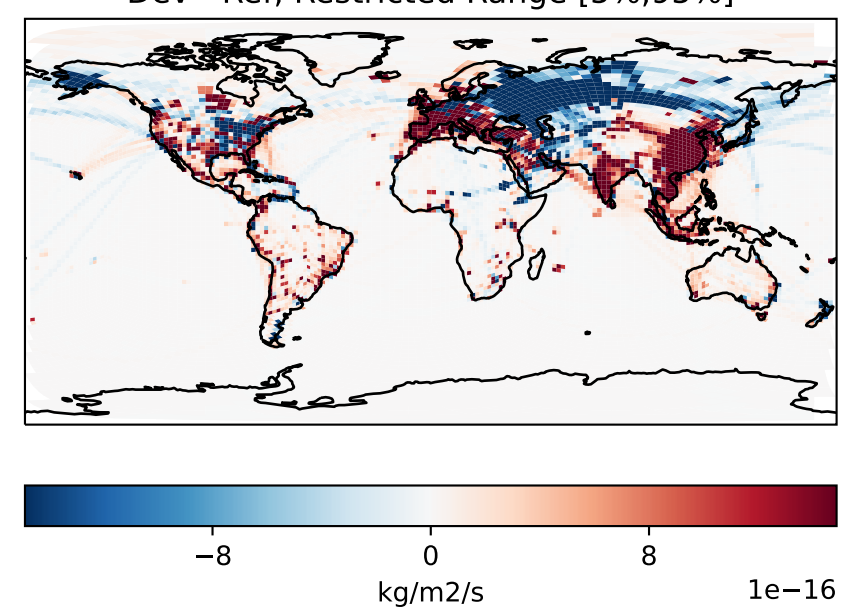
GCHP_13.4.0-rc.4 (Dev)
c48



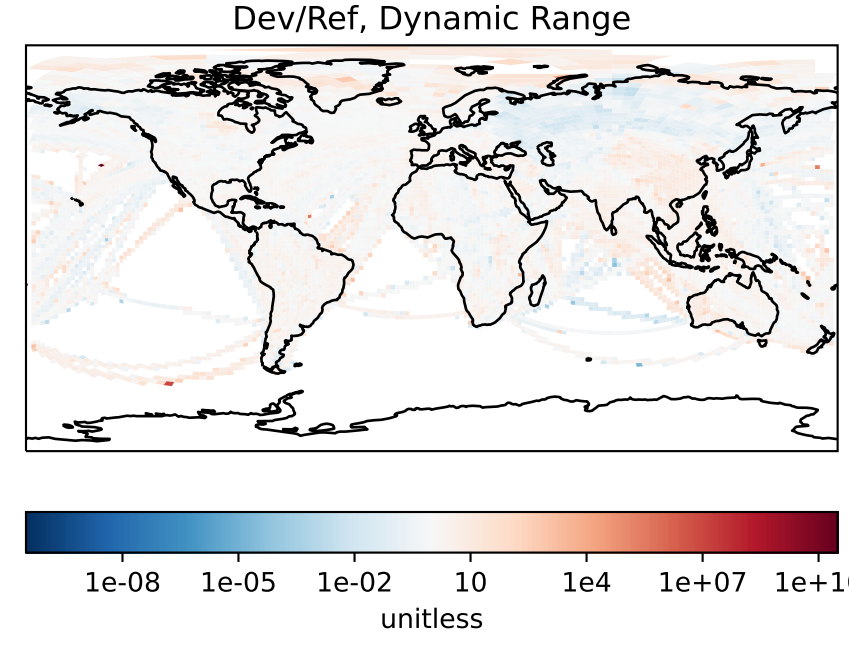
Difference
Dev - Ref, Dynamic Range



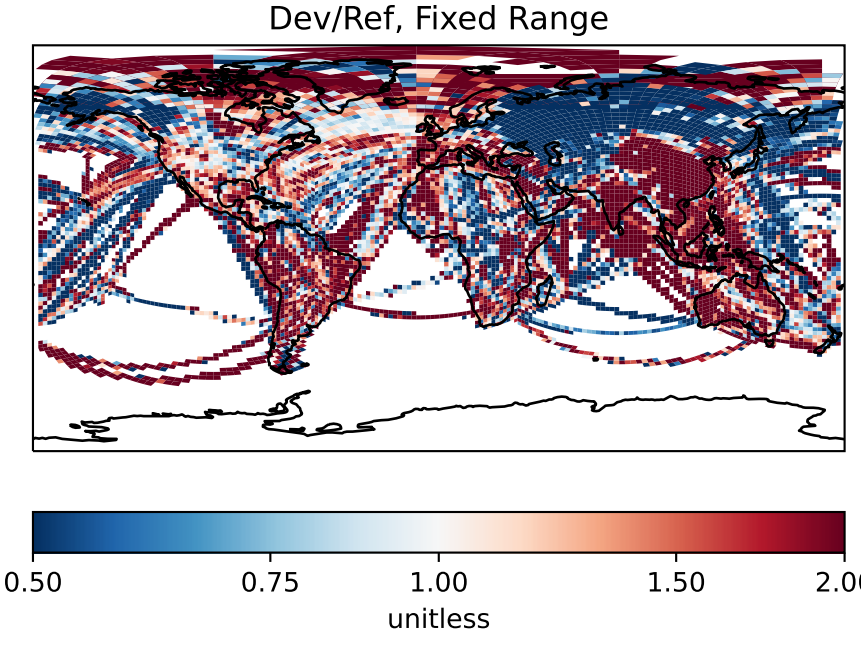
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

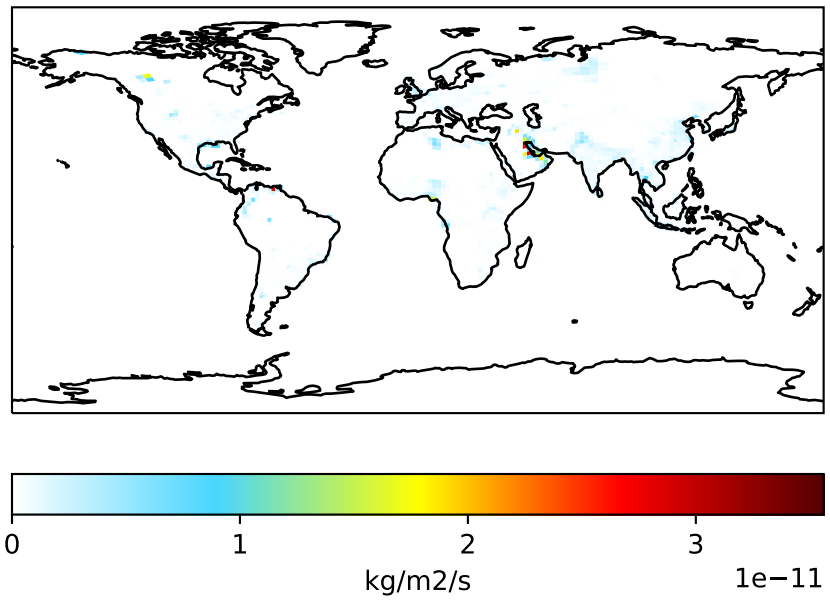


Ratio
Dev/Ref, Fixed Range

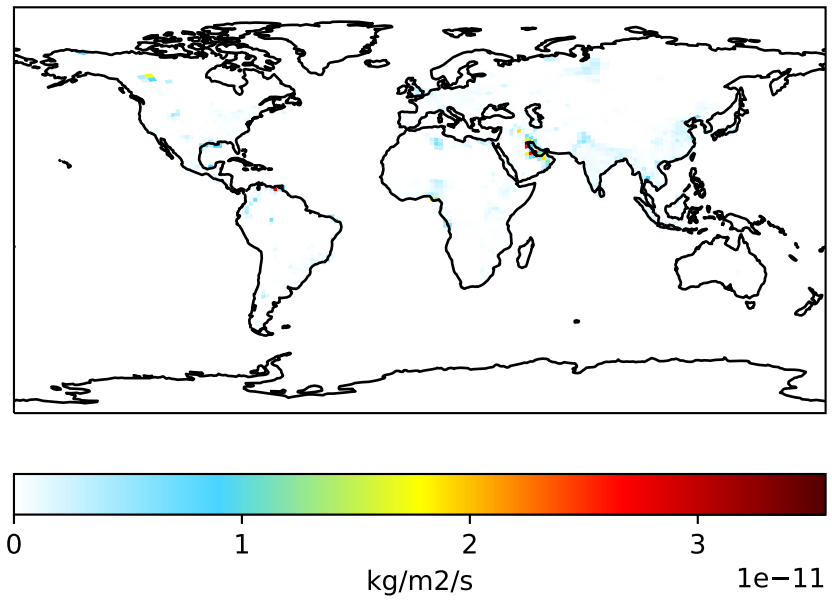


EmisCH2O_Anthro

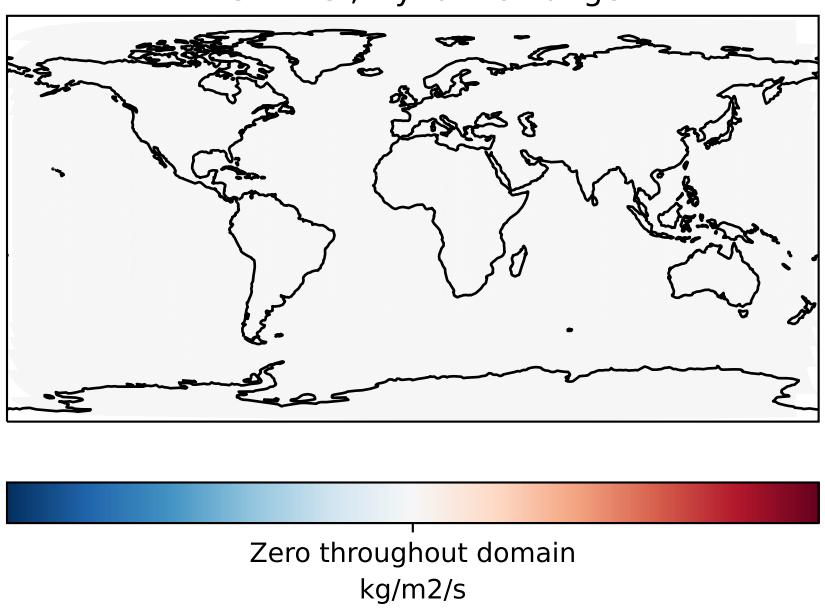
GCHP_13.3.0-rc.1 (Ref)
c48



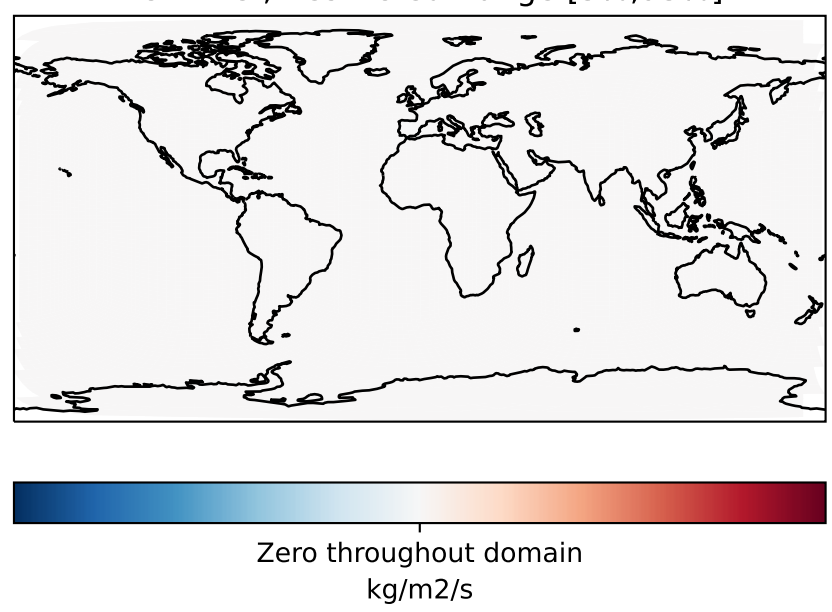
GCHP_13.4.0-rc.4 (Dev)
c48



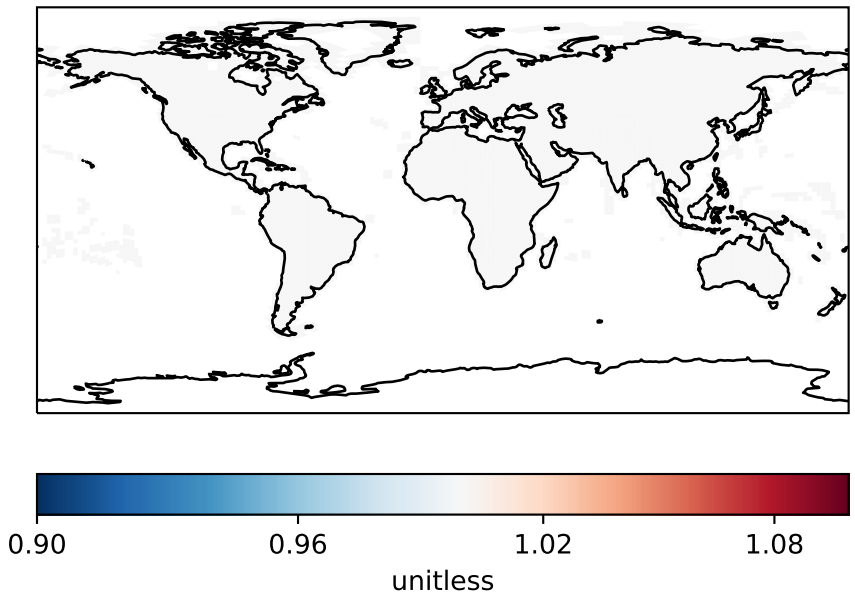
Difference
Dev - Ref, Dynamic Range



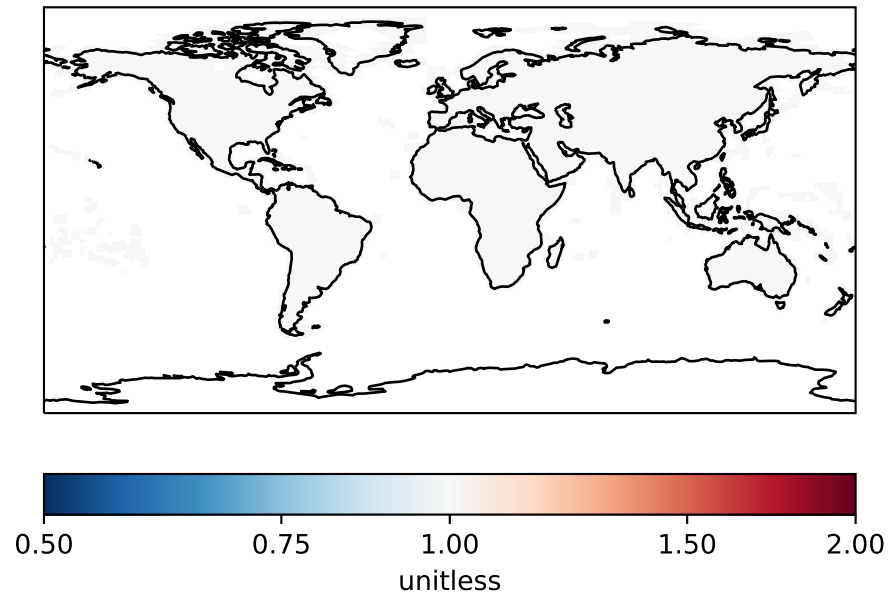
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

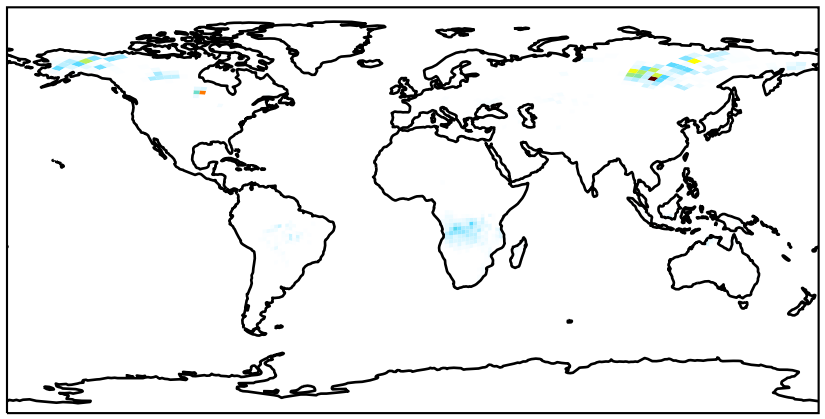


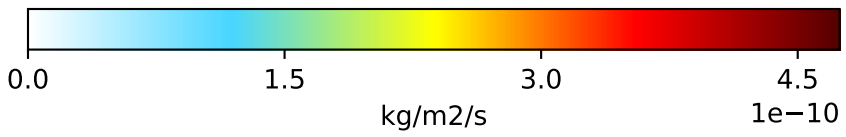
Ratio
Dev/Ref, Fixed Range



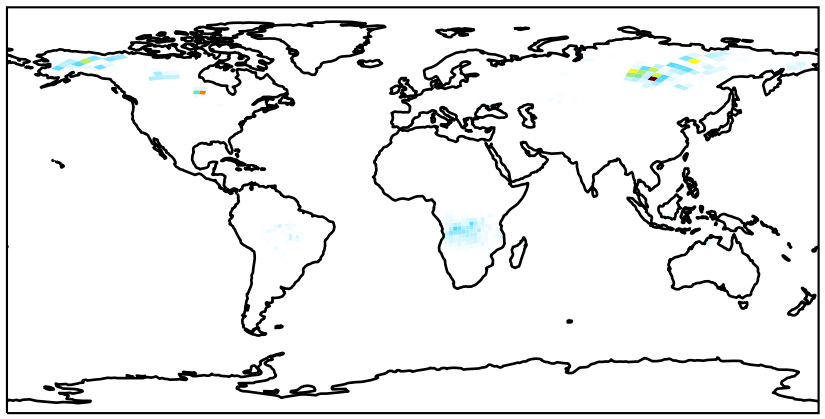
EmisCH2O_BioBurn

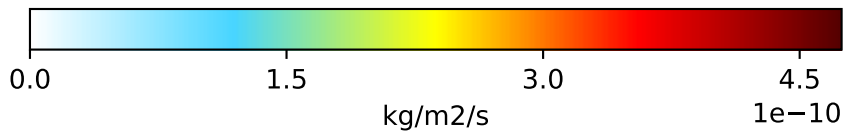
GCHP_13.3.0-rc.1 (Ref)
c48



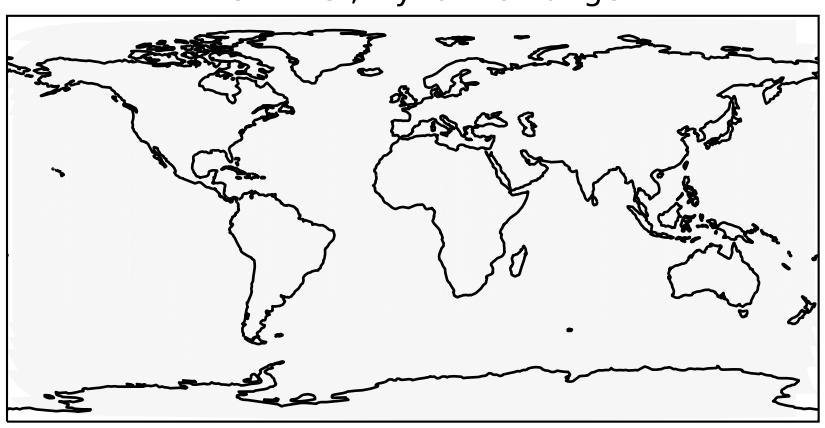


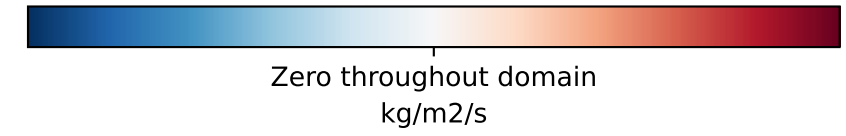
GCHP_13.4.0-rc.4 (Dev)
c48



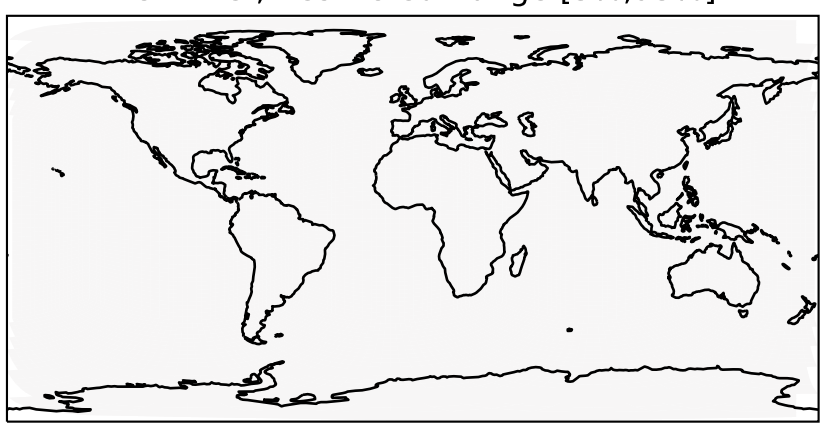


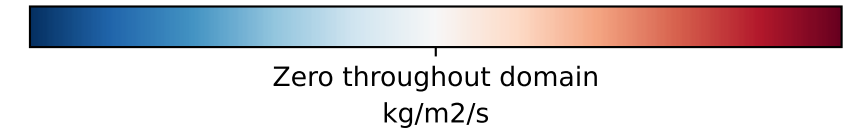
Difference
Dev - Ref, Dynamic Range



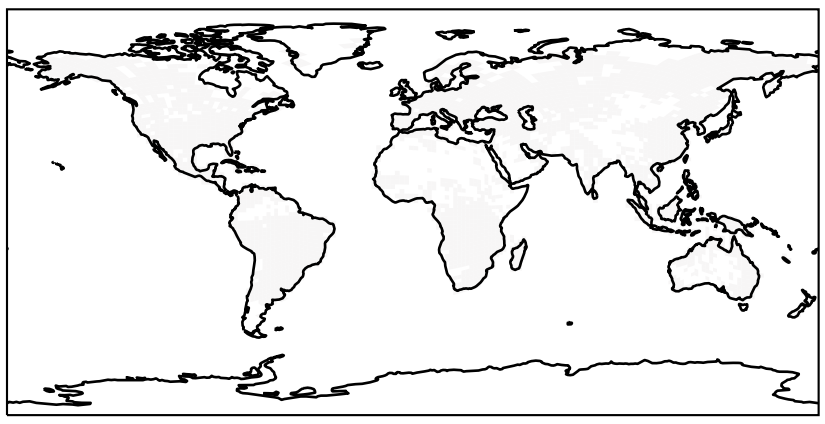


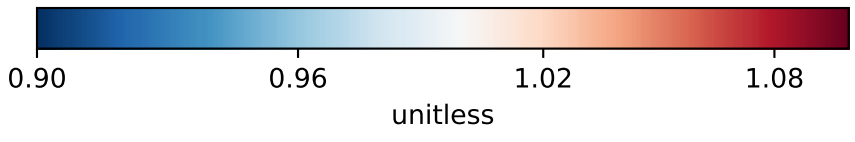
Difference
Dev - Ref, Restricted Range [5%,95%]



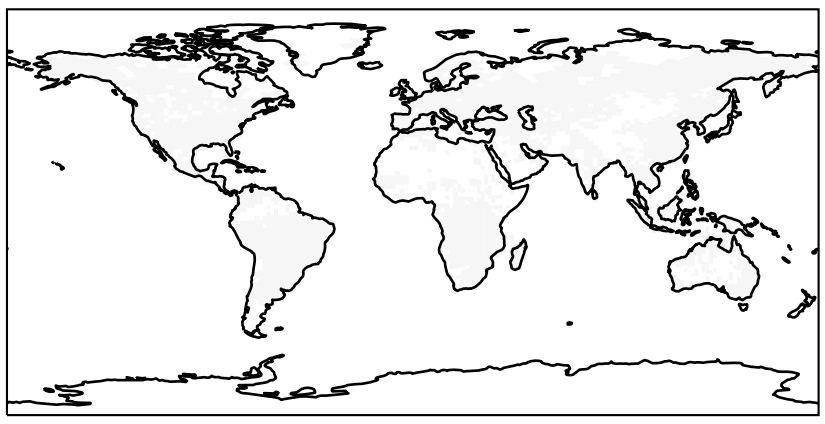


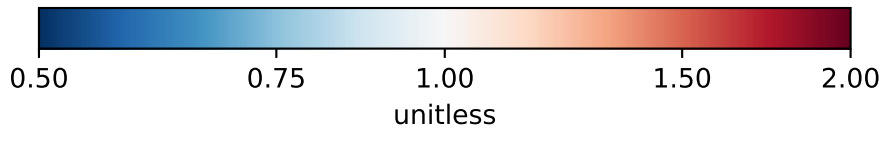
Ratio
Dev/Ref, Dynamic Range





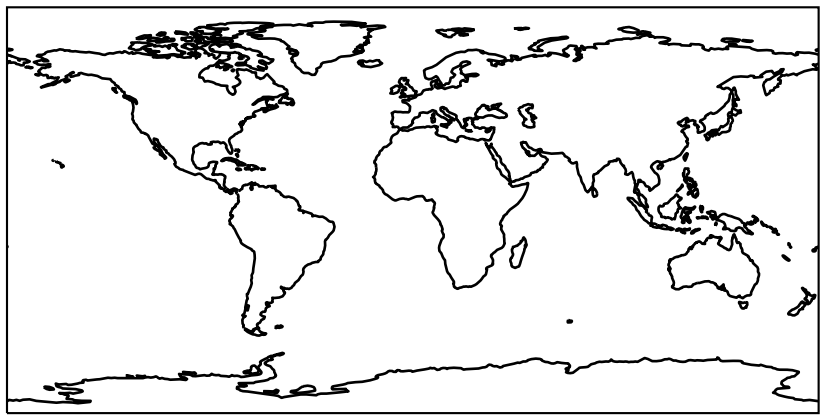
Ratio
Dev/Ref, Fixed Range





EmisCH2O_Ship

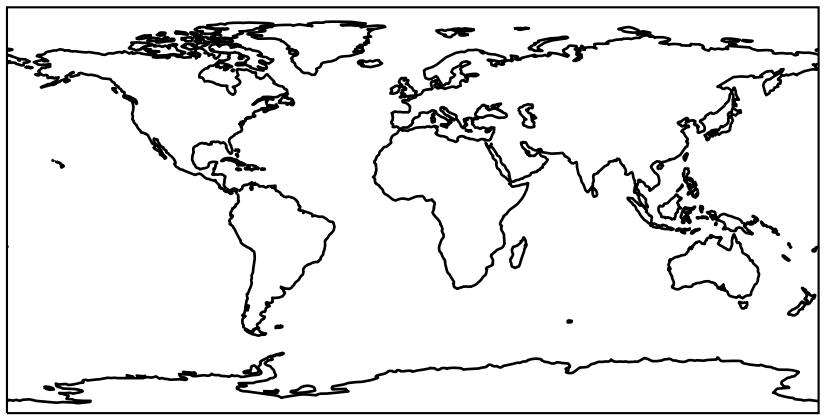
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

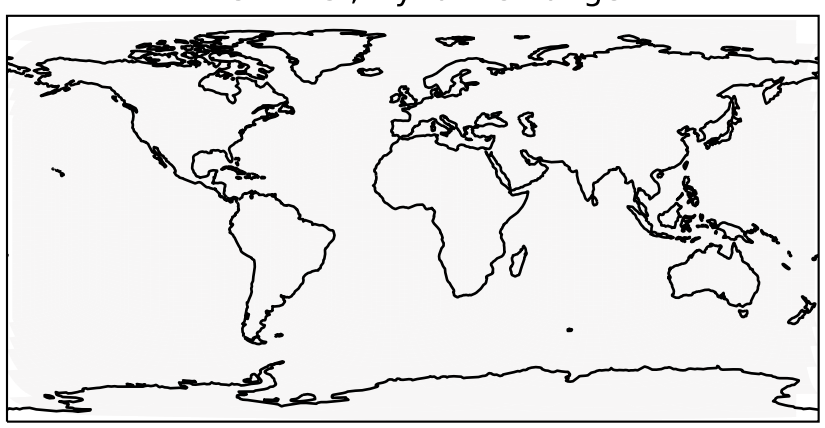
GCHP_13.4.0-rc.4 (Dev)
c48





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kg/m2/s

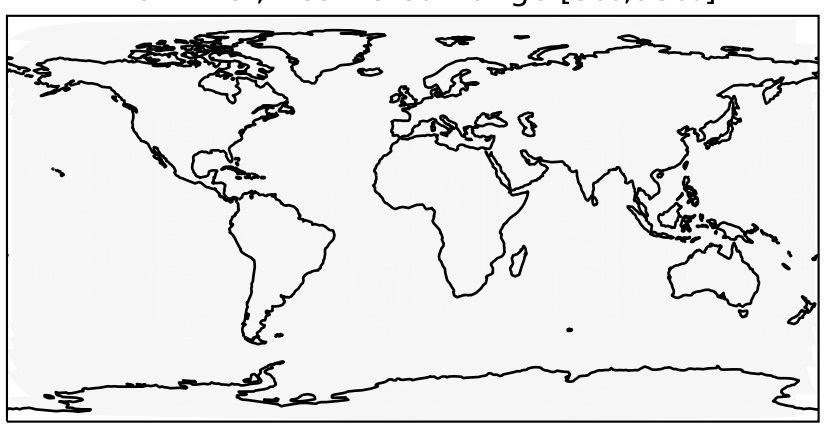
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

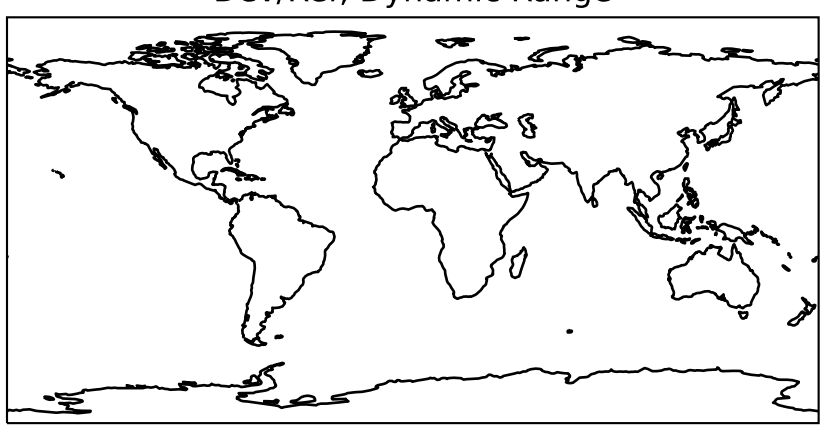
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

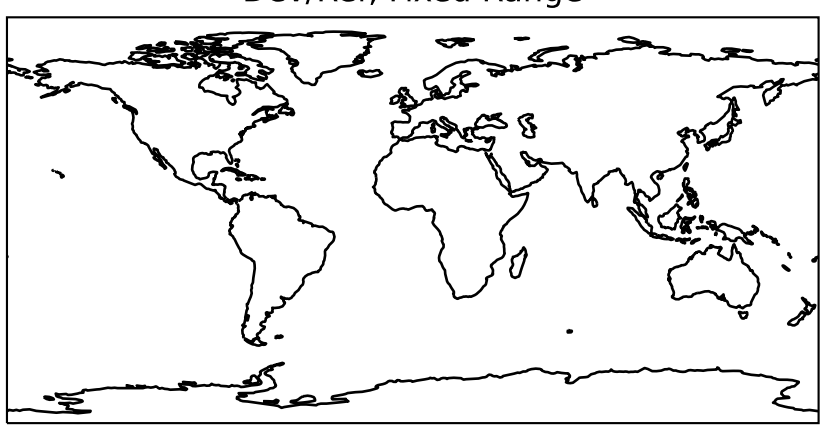
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

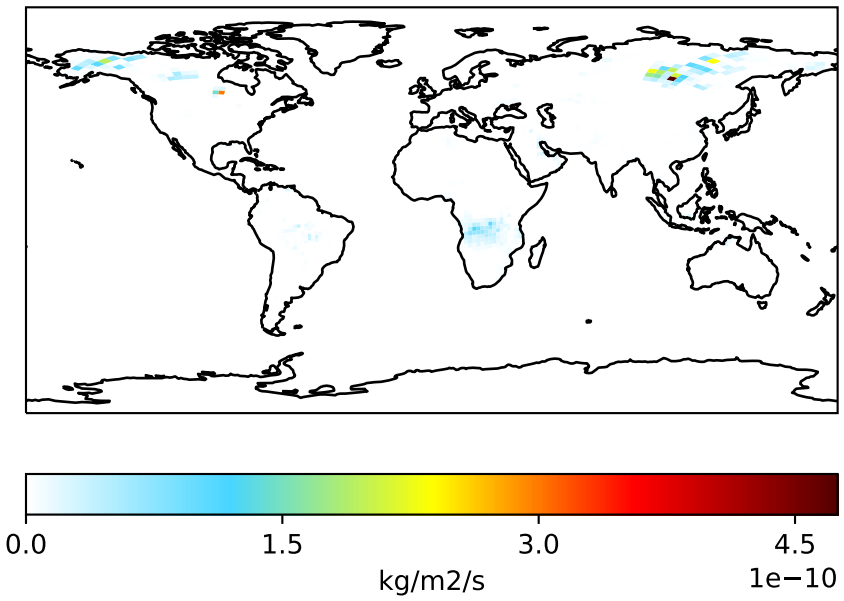




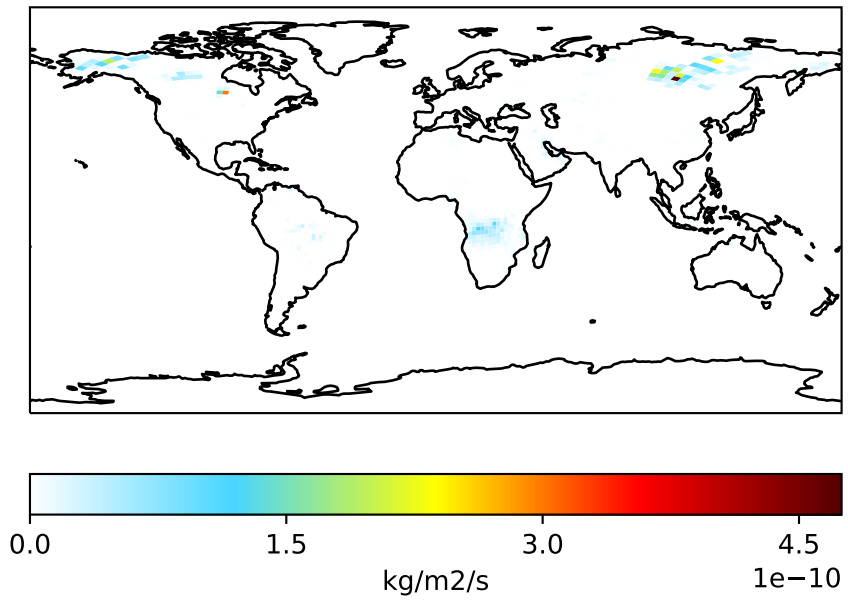
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EmisCH2O_Total

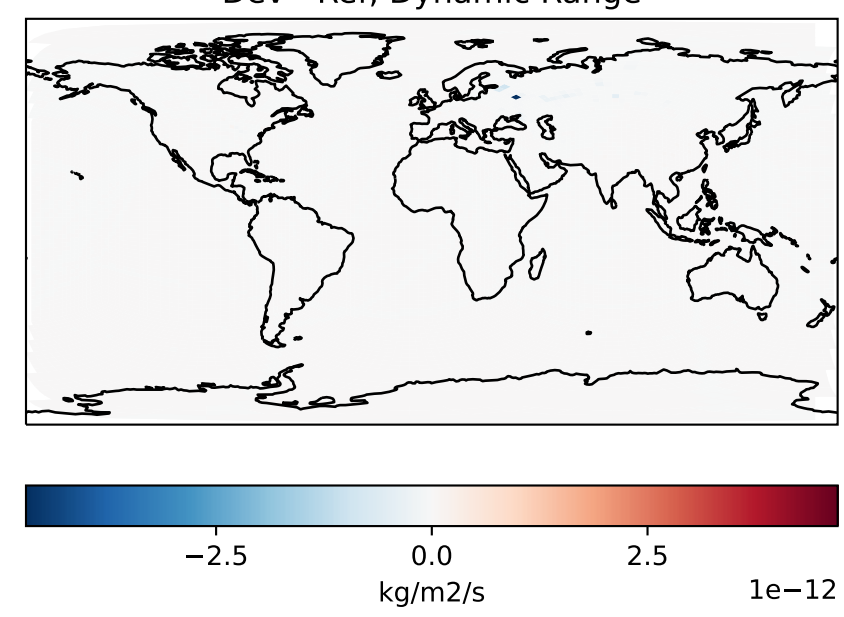
GCHP_13.3.0-rc.1 (Ref)
c48



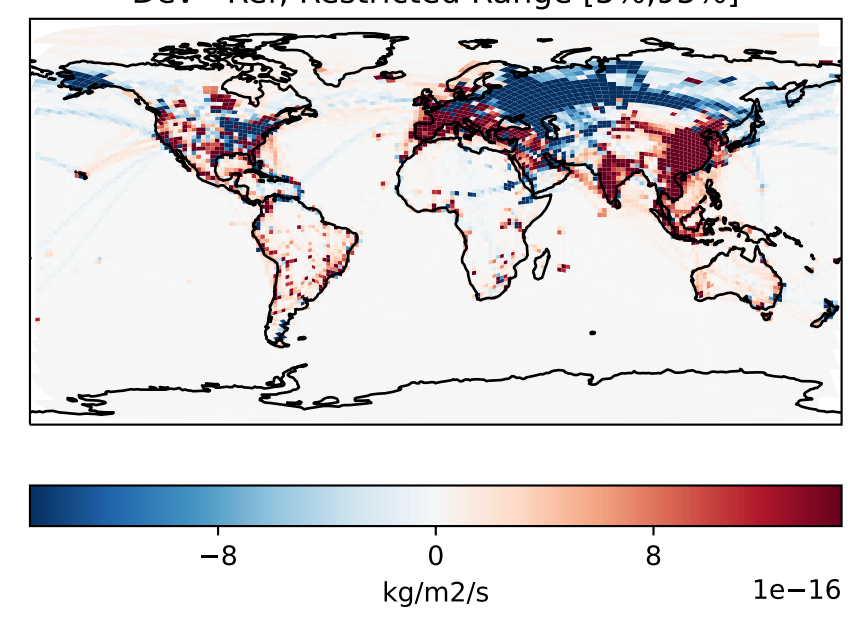
GCHP_13.4.0-rc.4 (Dev)
c48



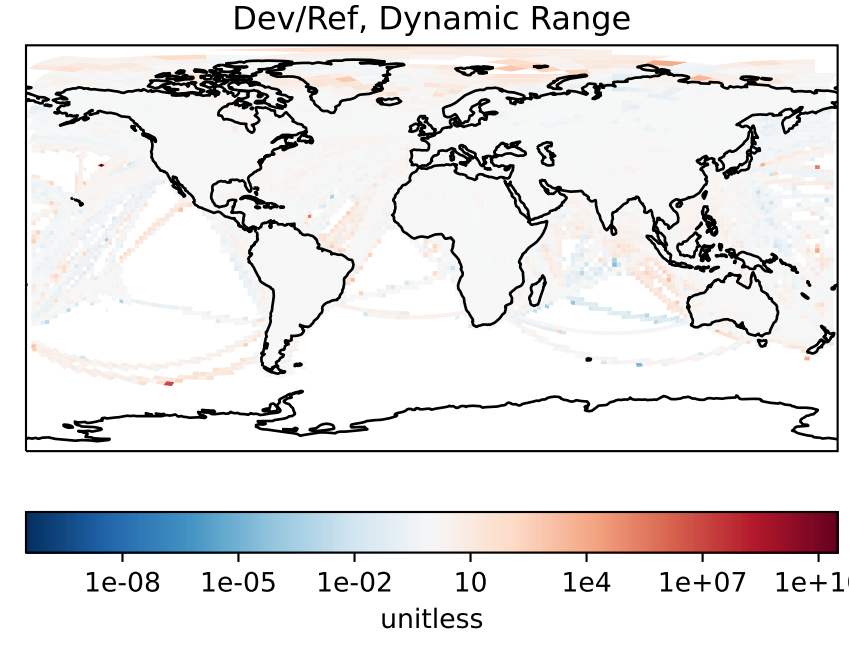
Difference
Dev - Ref, Dynamic Range



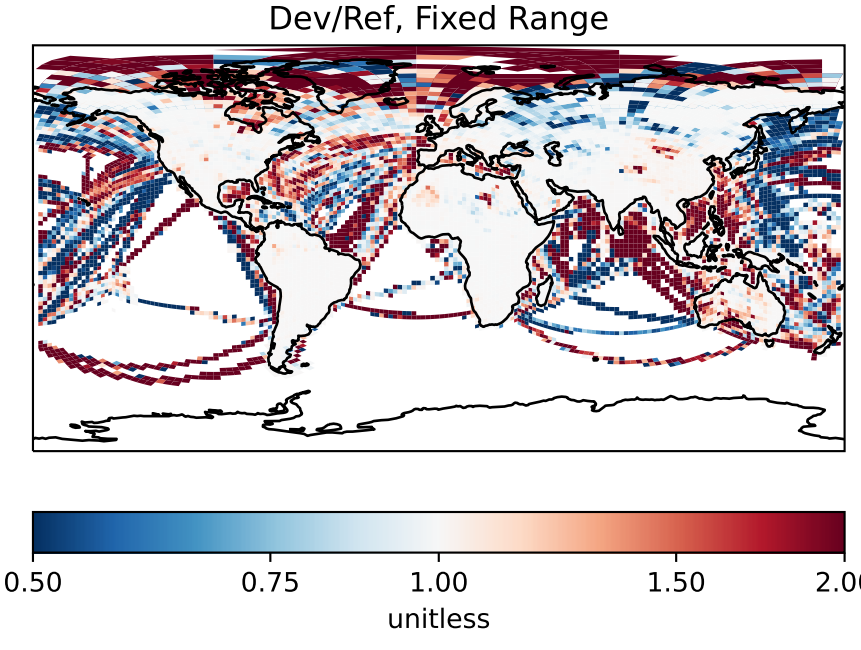
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

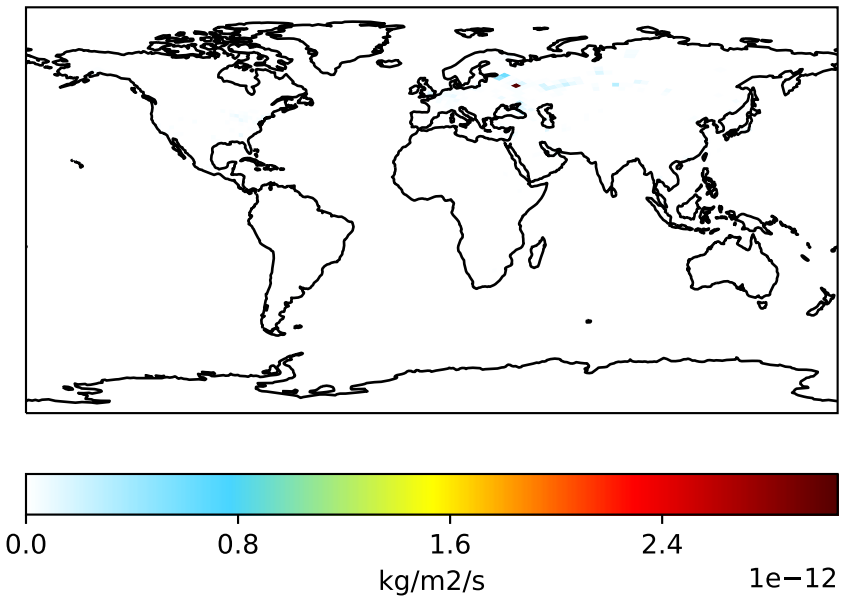


Ratio
Dev/Ref, Fixed Range

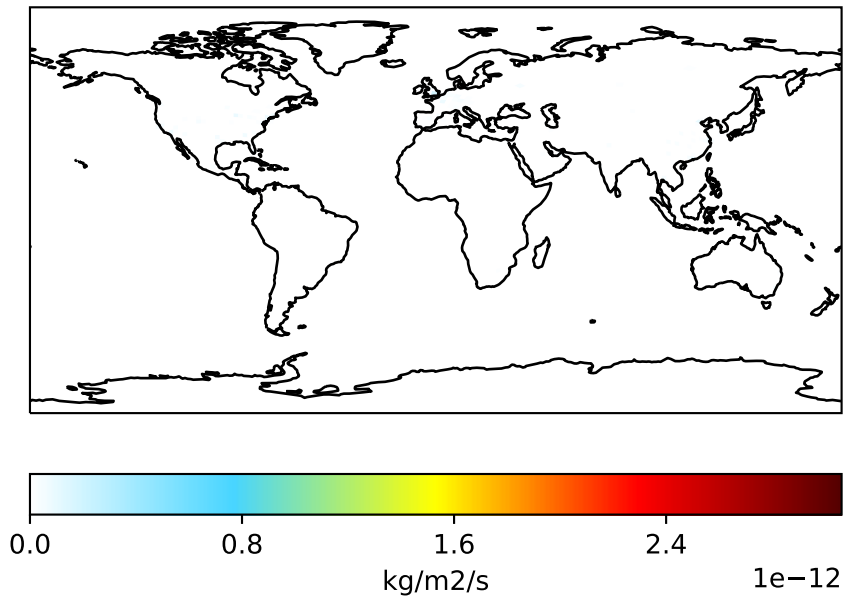


EmisMACR_Aircraft

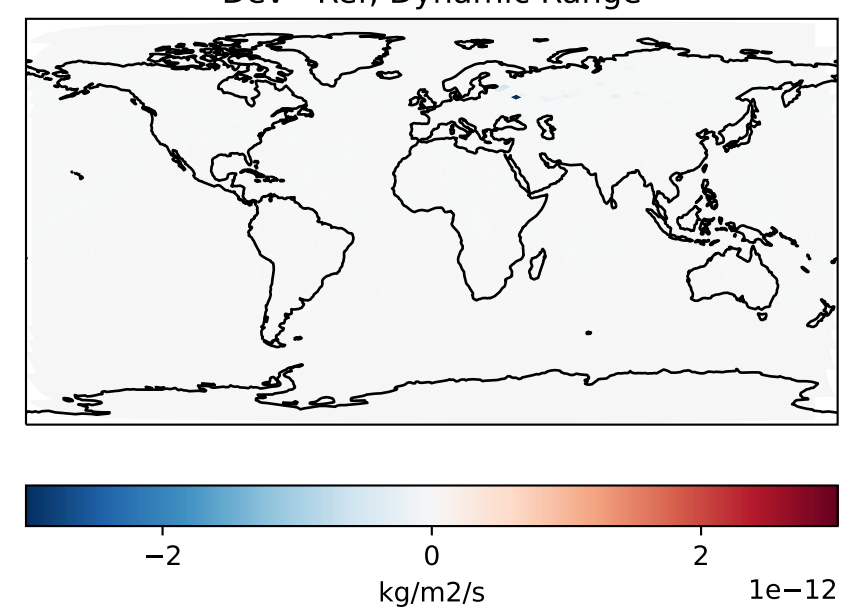
GCHP_13.3.0-rc.1 (Ref)
c48



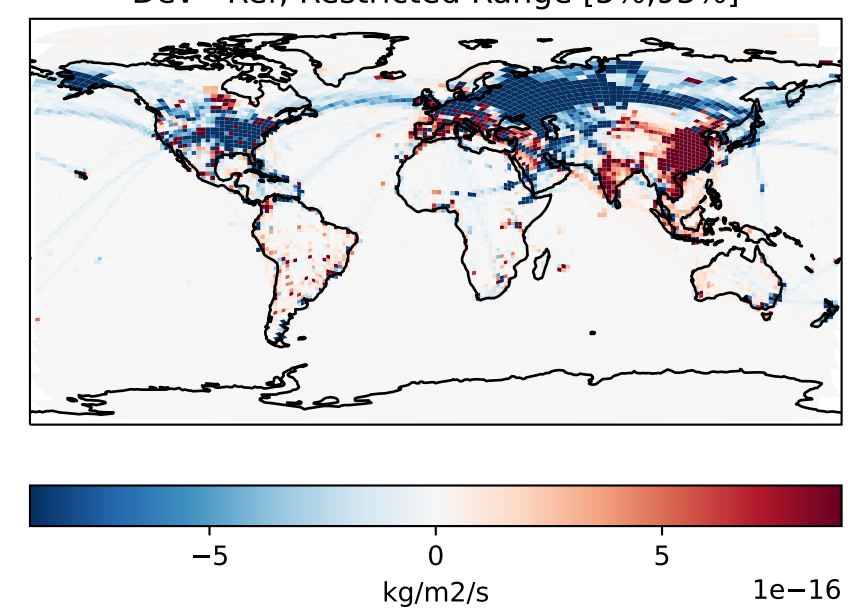
GCHP_13.4.0-rc.4 (Dev)
c48



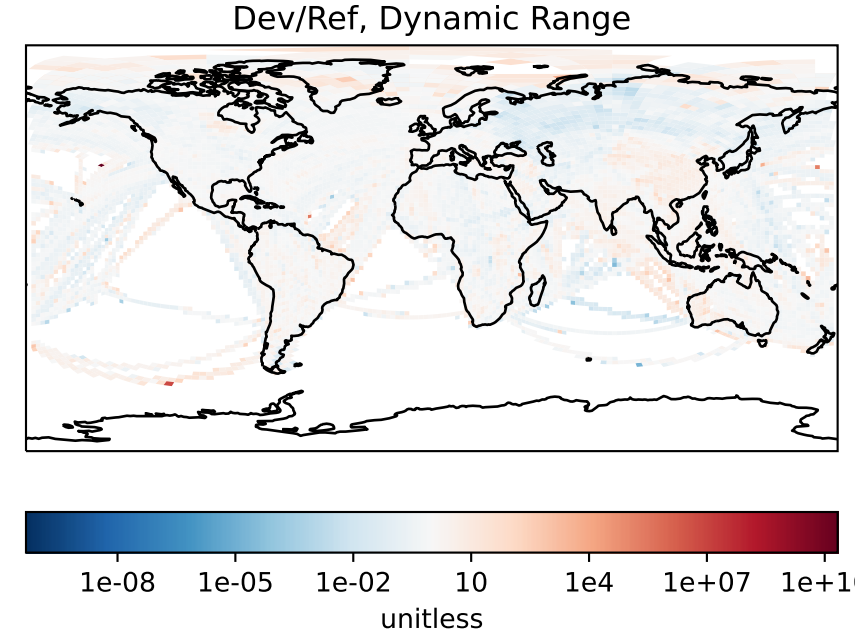
Difference
Dev - Ref, Dynamic Range



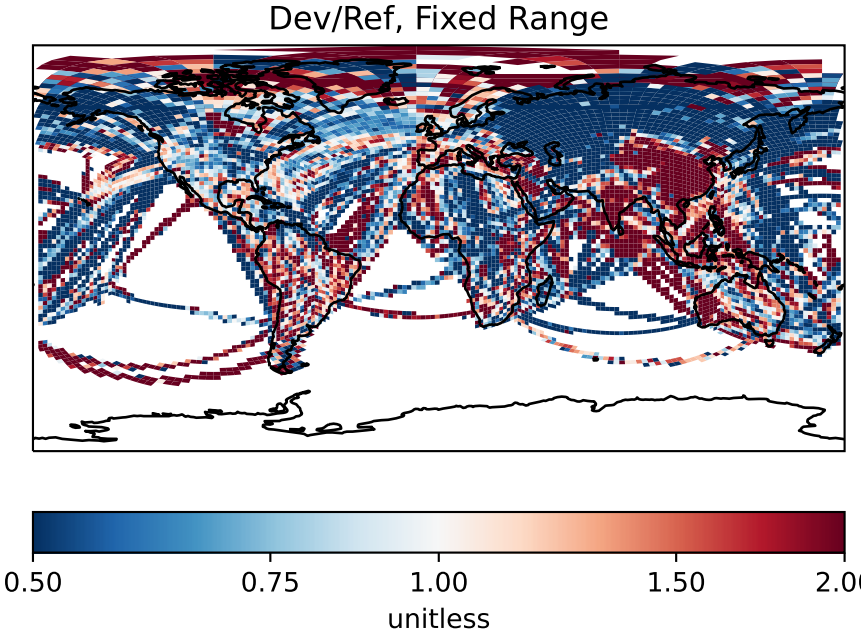
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

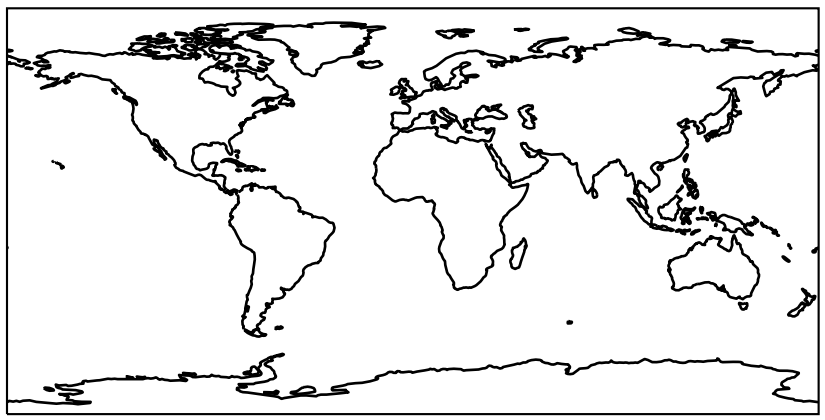


Ratio
Dev/Ref, Fixed Range



EmisMACR_Anthro

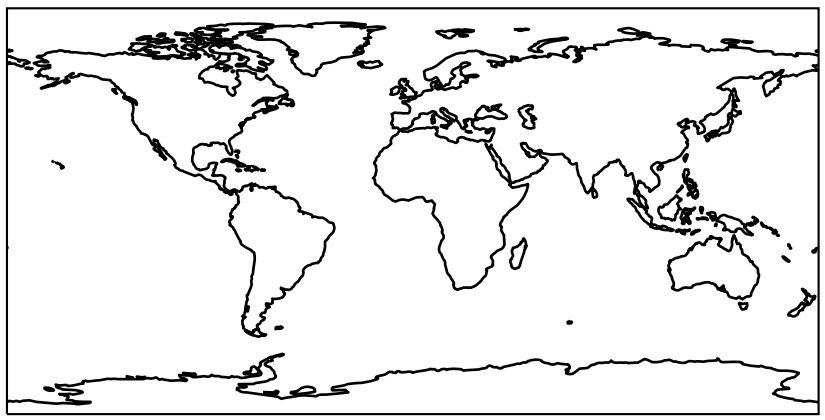
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

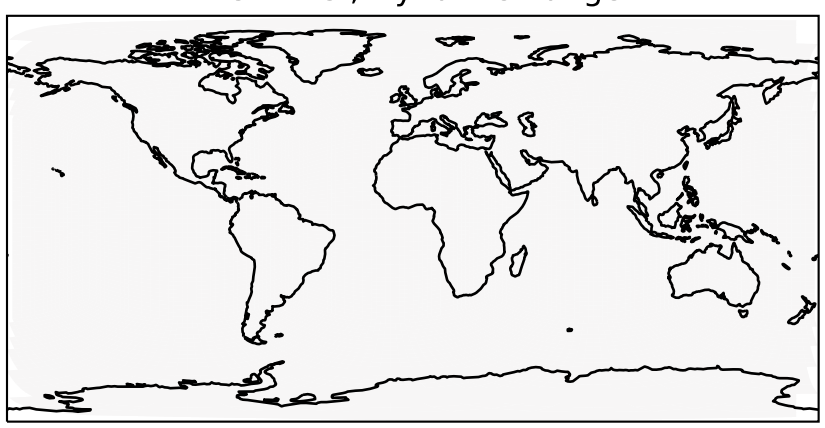
GCHP_13.4.0-rc.4 (Dev)
c48





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kg/m2/s

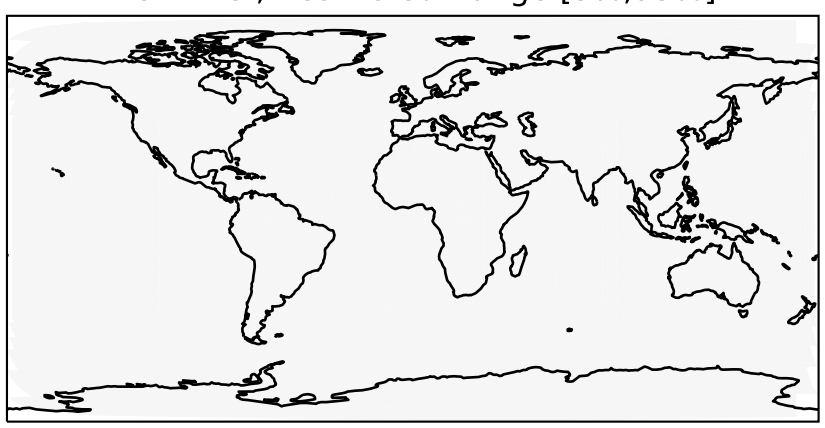
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

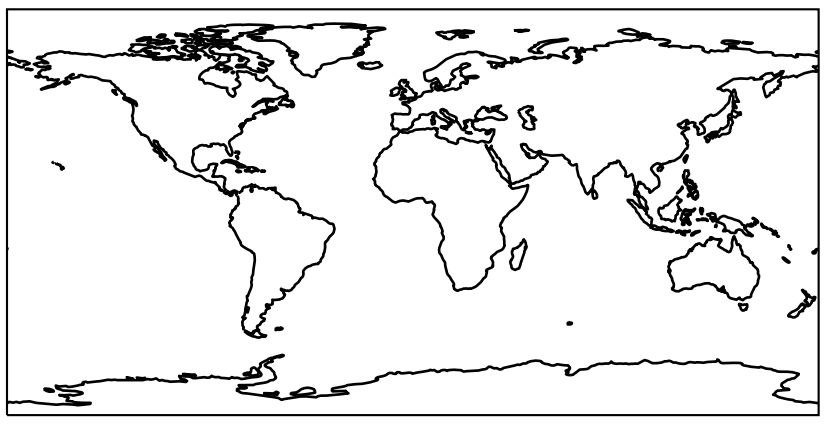
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

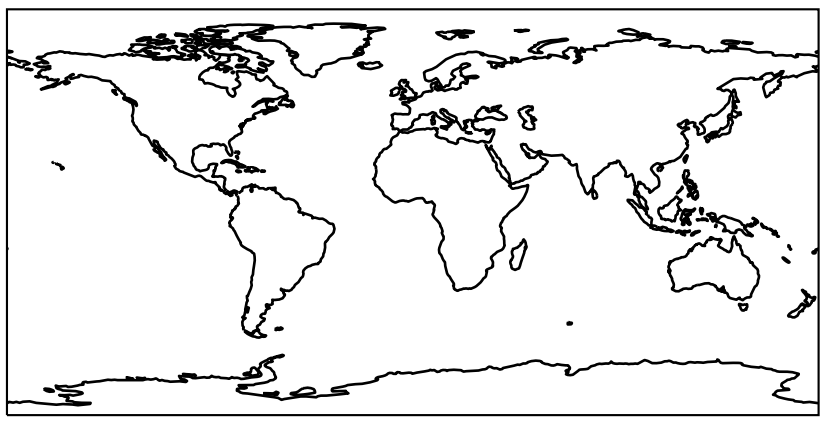
Ratio
Dev/Ref, Dynamic Range





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unitless

Ratio
Dev/Ref, Fixed Range

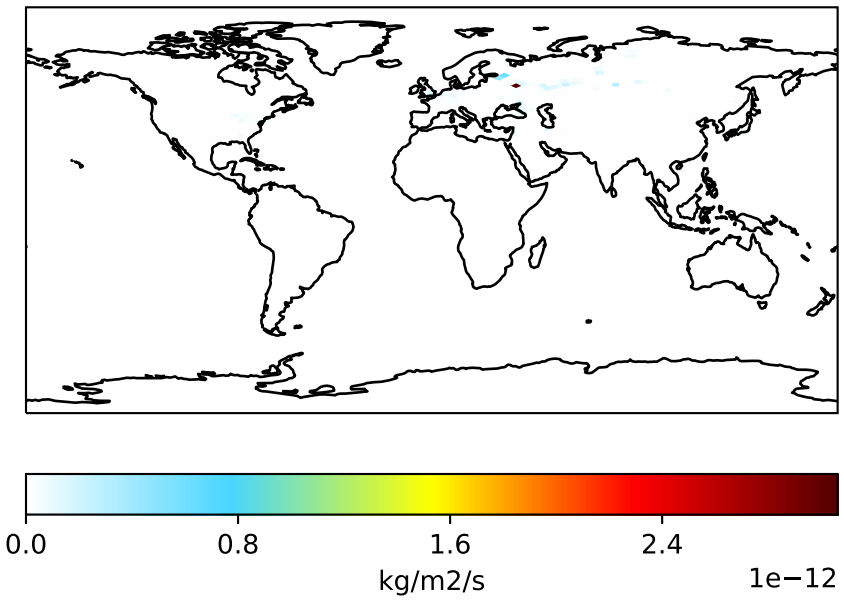




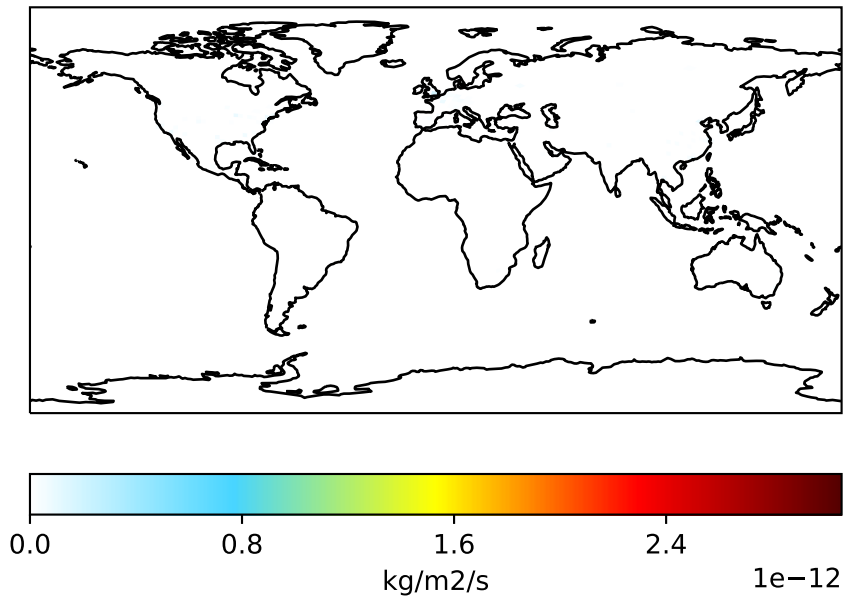
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EmisMACR_Total

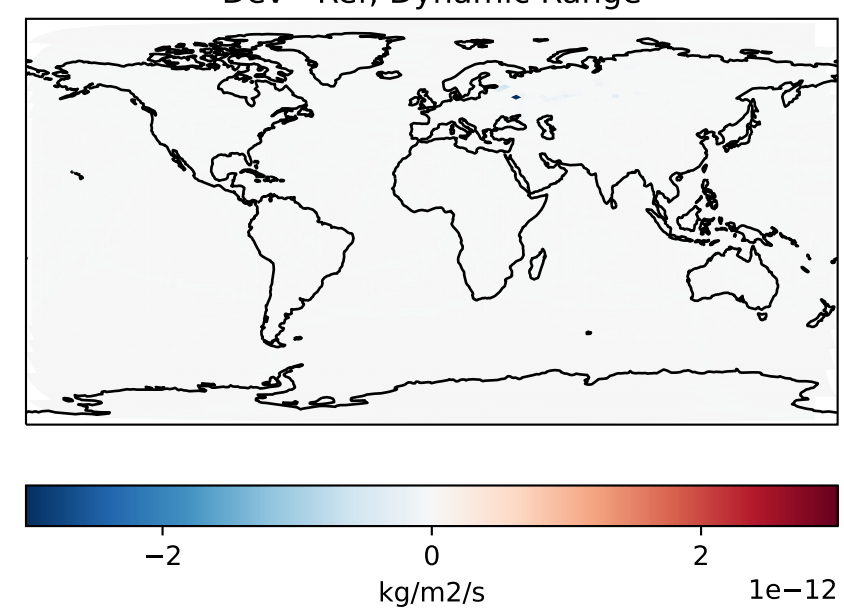
GCHP_13.3.0-rc.1 (Ref)
c48



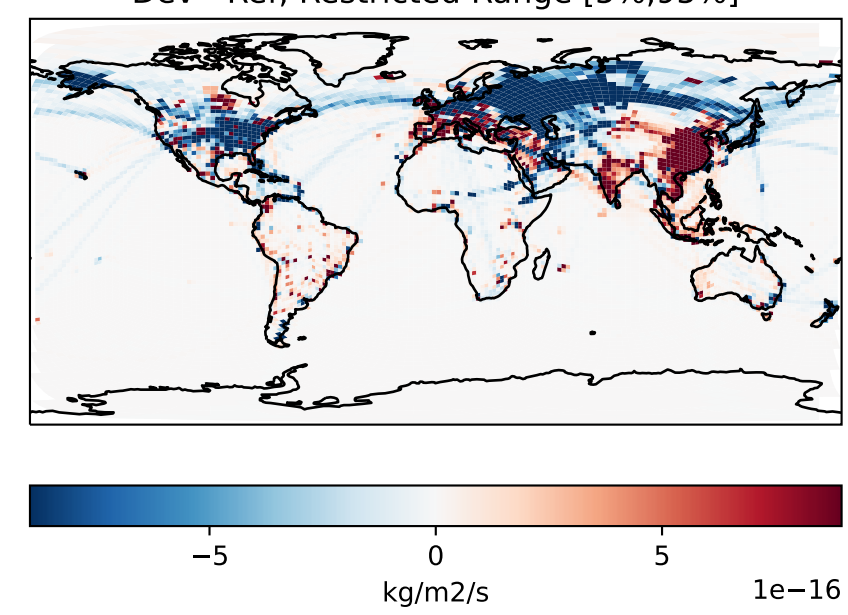
GCHP_13.4.0-rc.4 (Dev)
c48



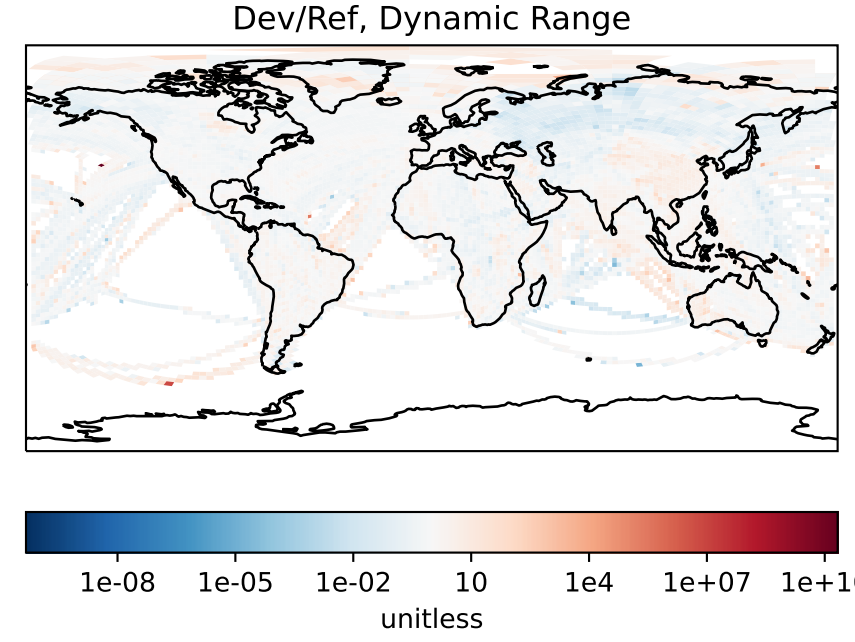
Difference
Dev - Ref, Dynamic Range



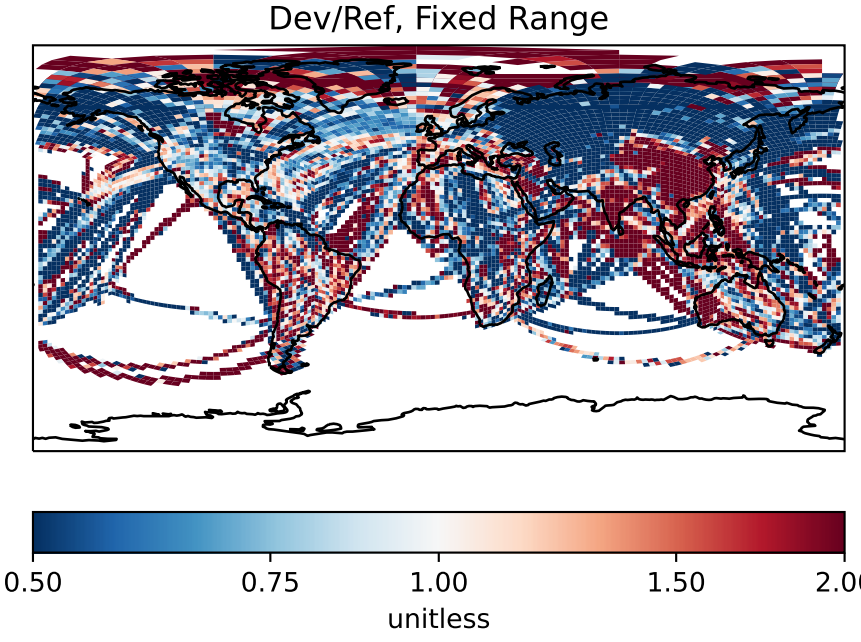
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

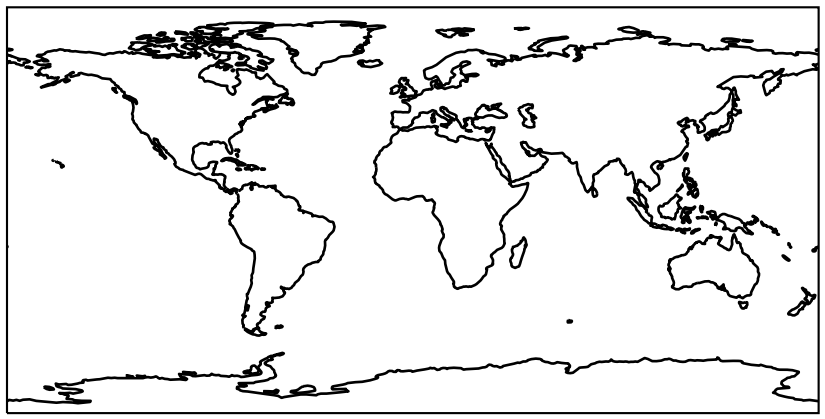


Ratio
Dev/Ref, Fixed Range



EmisACET_Anthro

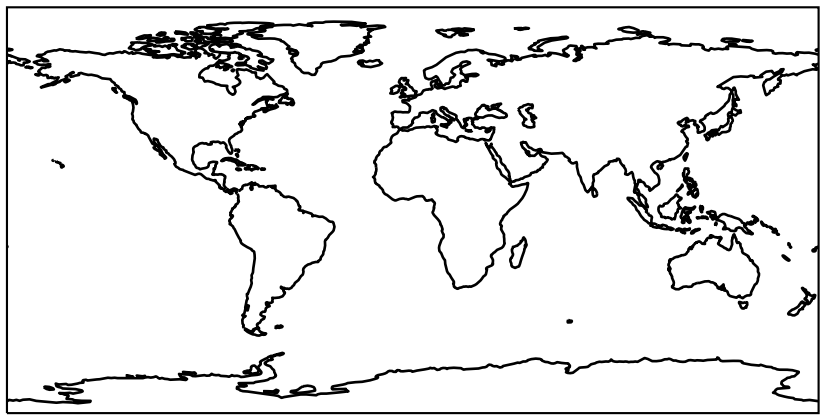
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

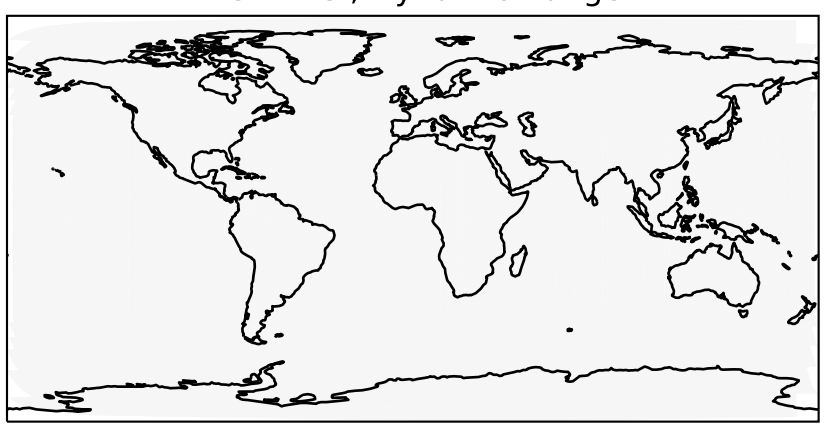
GCHP_13.4.0-rc.4 (Dev)
c48





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kg/m2/s

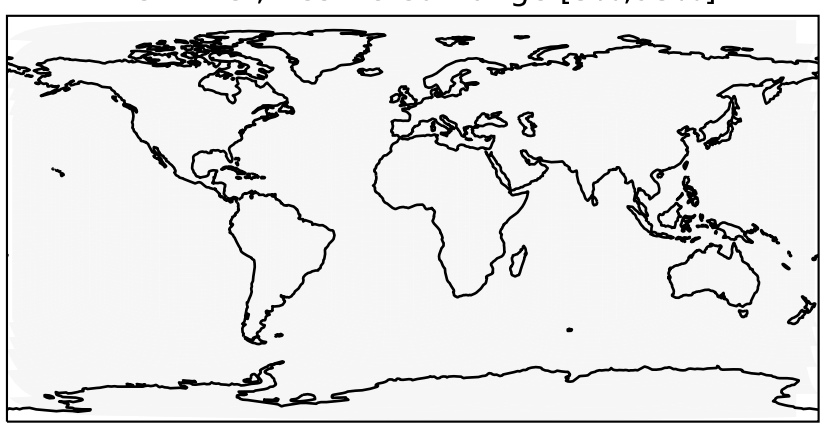
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

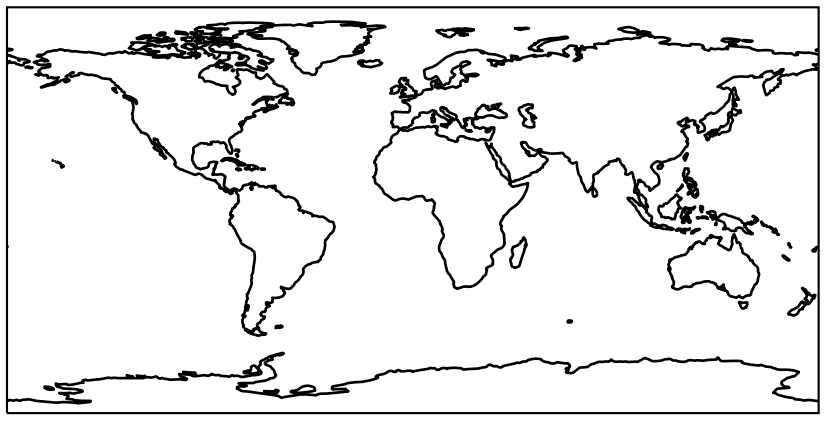
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

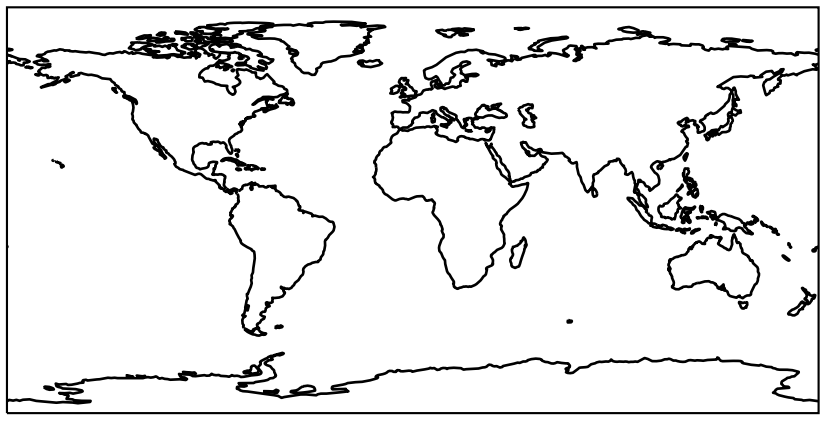
Ratio
Dev/Ref, Dynamic Range





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unitless

Ratio
Dev/Ref, Fixed Range

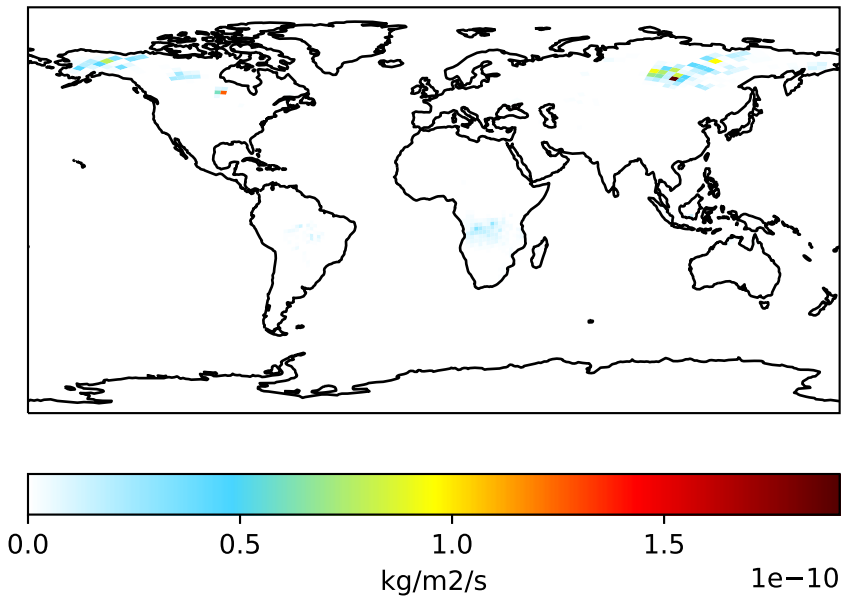




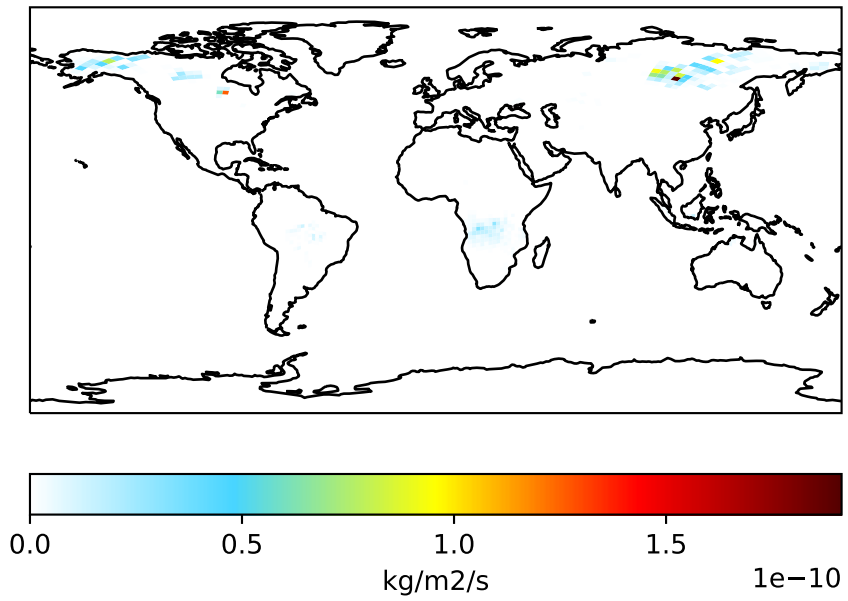
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EmisACET_BioBurn

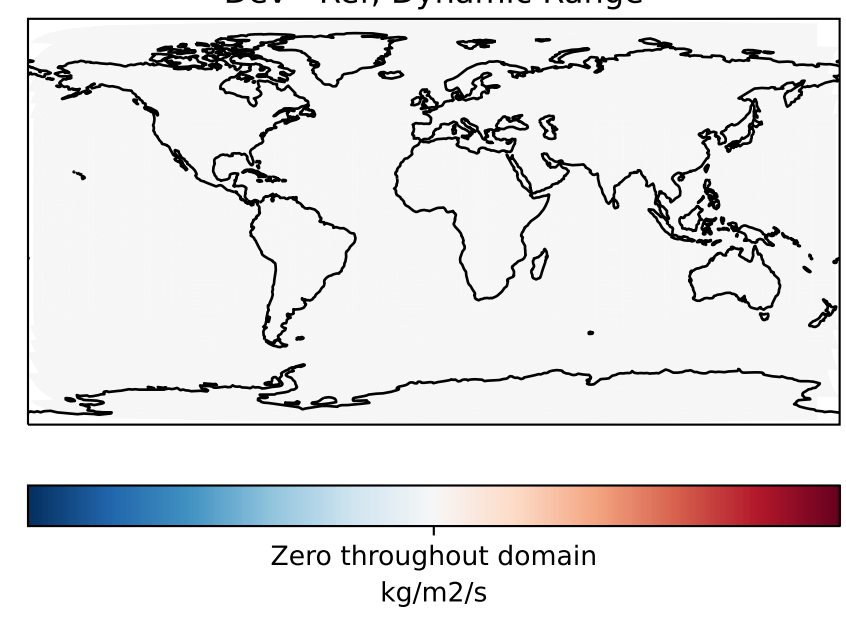
GCHP_13.3.0-rc.1 (Ref)
c48



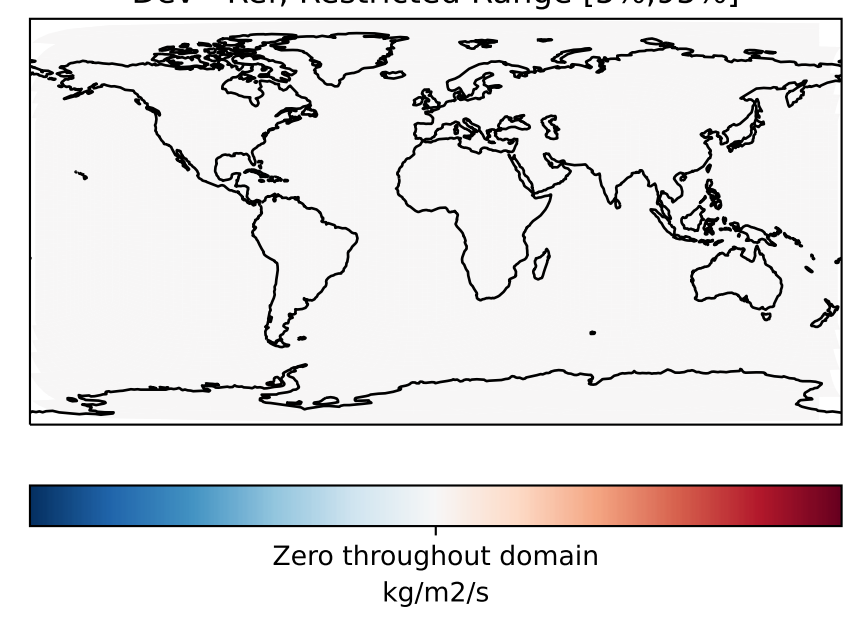
GCHP_13.4.0-rc.4 (Dev)
c48



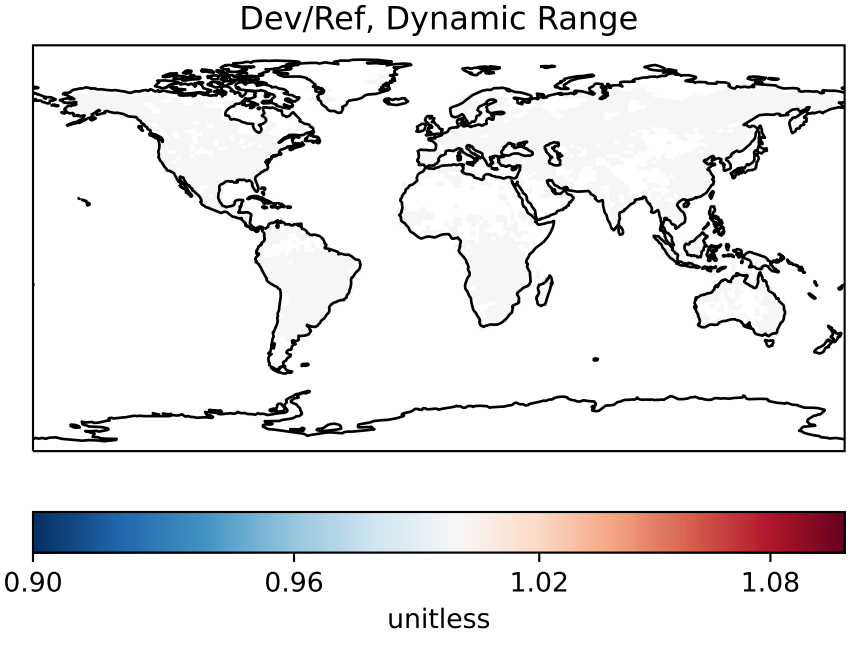
Difference
Dev - Ref, Dynamic Range



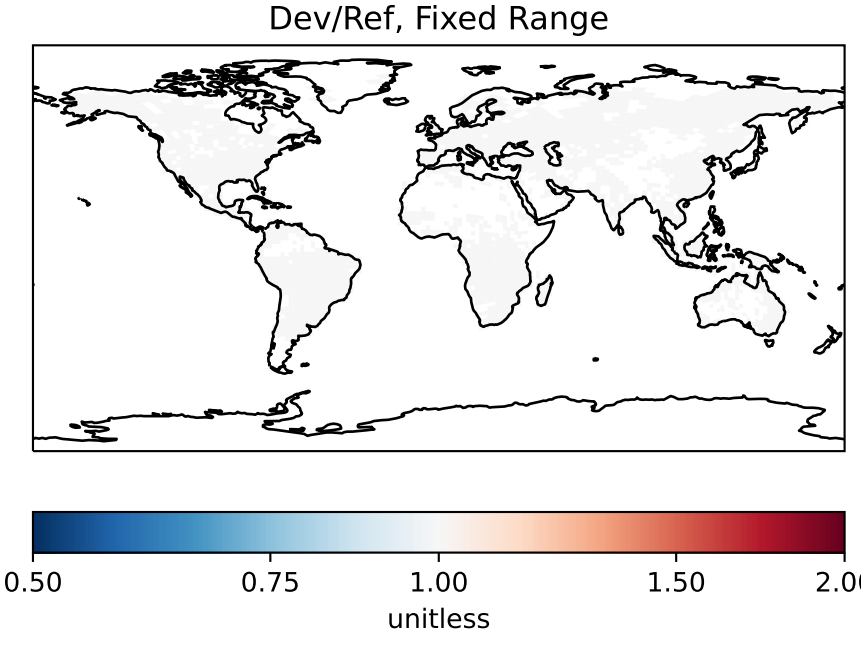
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

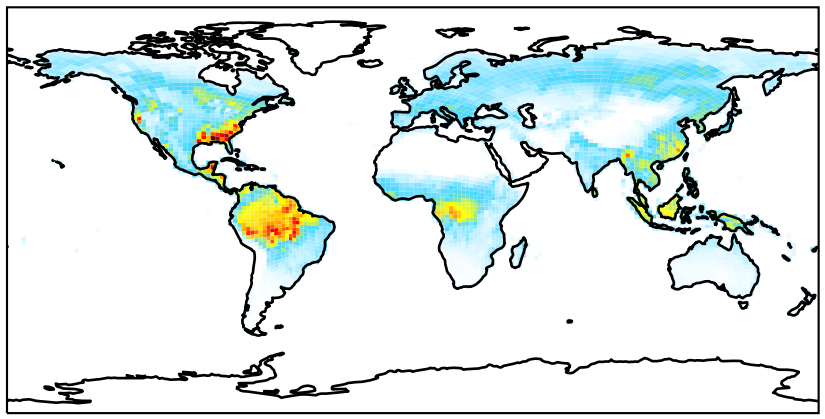


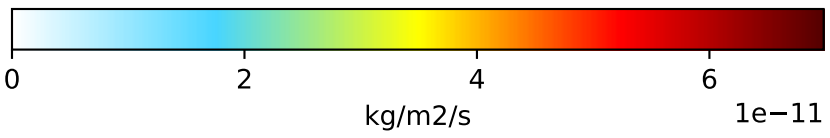
Ratio
Dev/Ref, Fixed Range



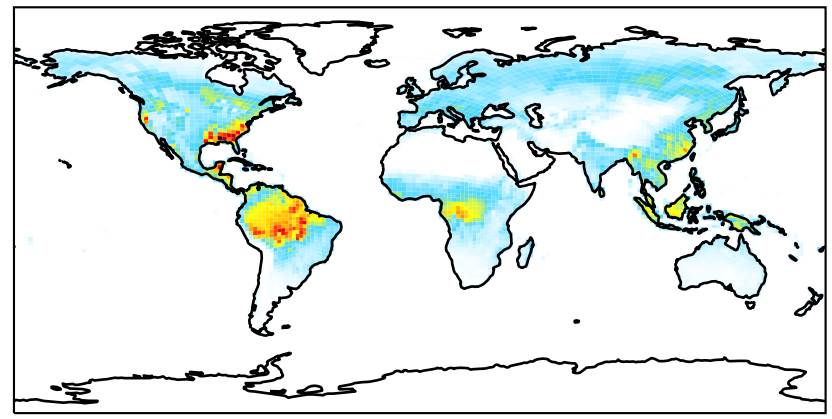
EmisACET_Biogenic

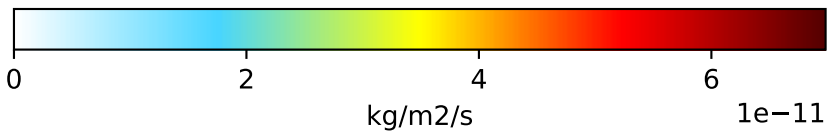
GCHP_13.3.0-rc.1 (Ref)
c48



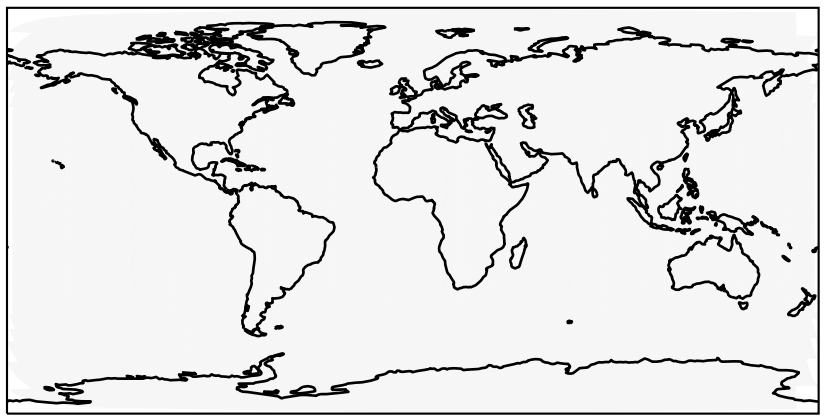


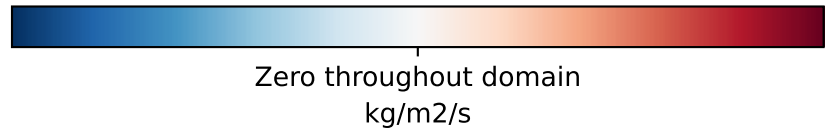
GCHP_13.4.0-rc.4 (Dev)
c48



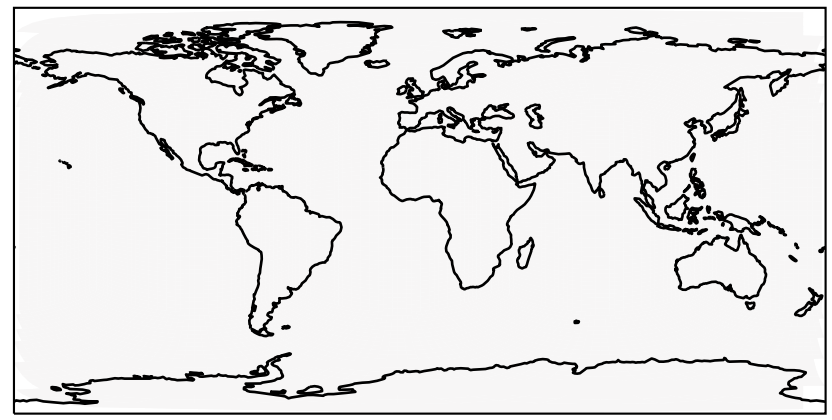


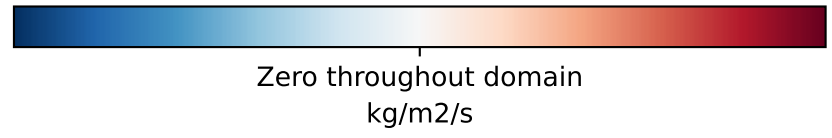
Difference
Dev - Ref, Dynamic Range



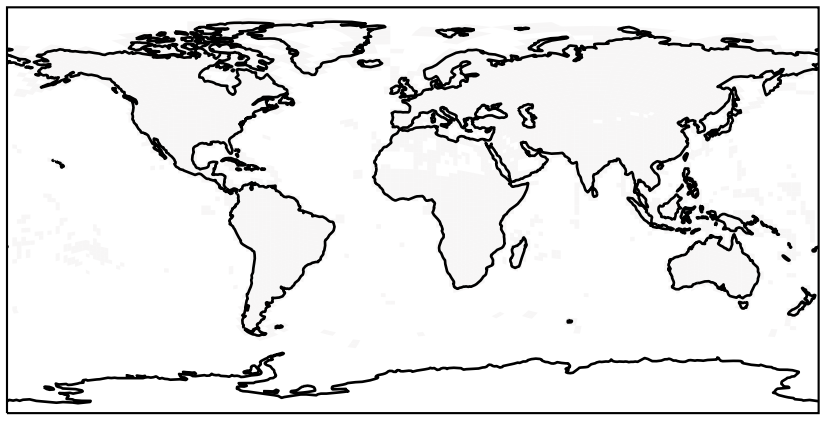


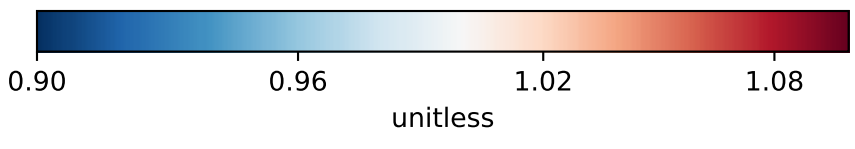
Difference
Dev - Ref, Restricted Range [5%,95%]



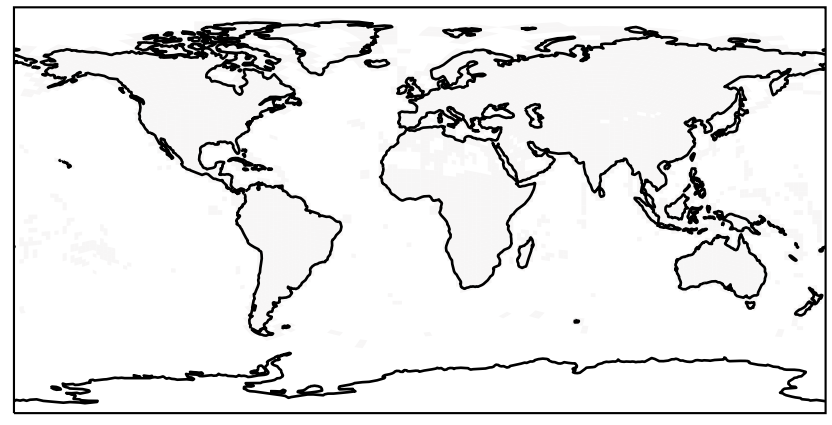


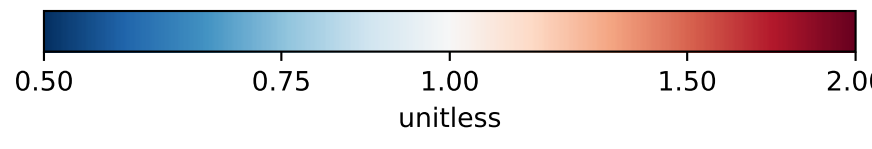
Ratio
Dev/Ref, Dynamic Range





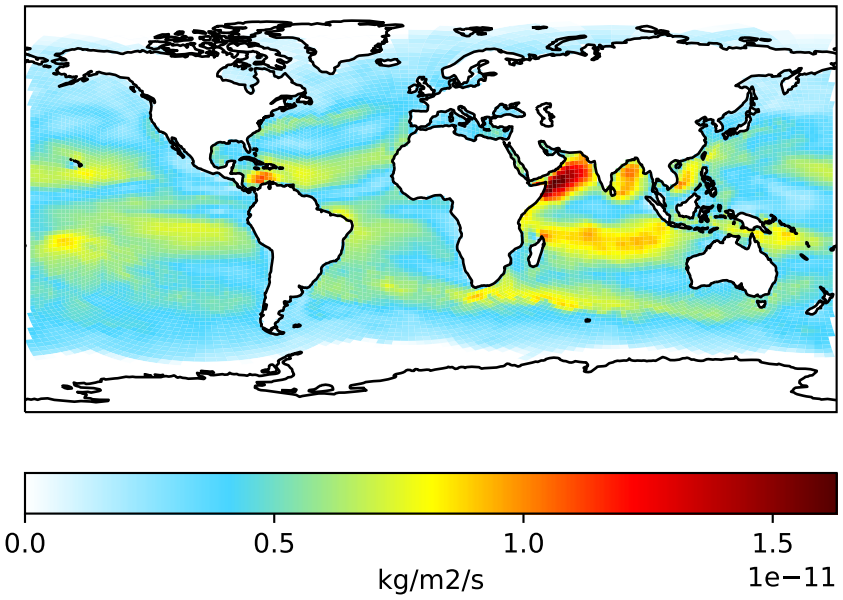
Ratio
Dev/Ref, Fixed Range



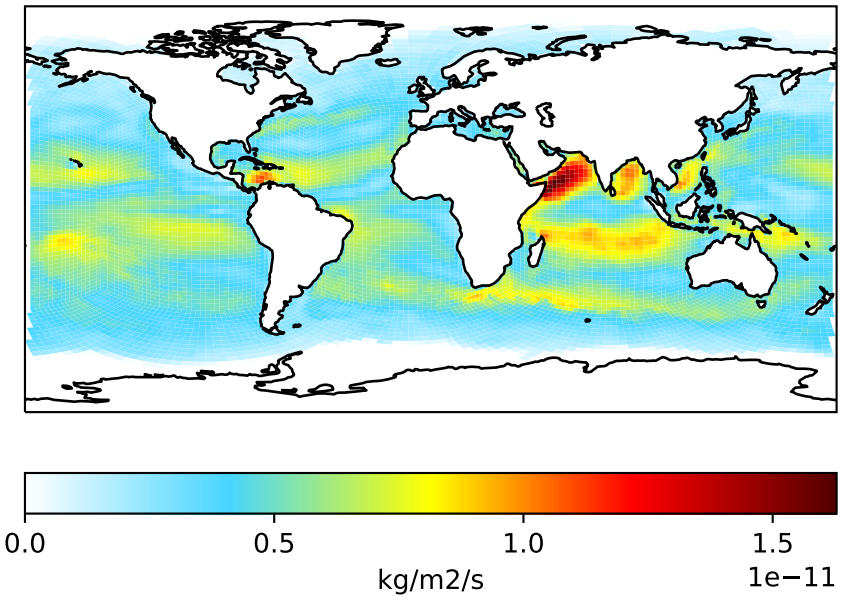


EmisACET_Ocean

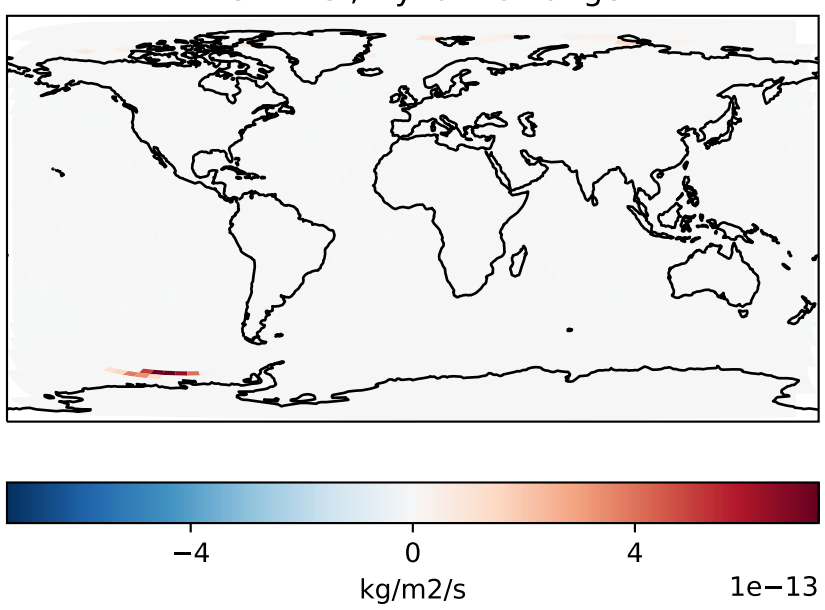
GCHP_13.3.0-rc.1 (Ref)
c48



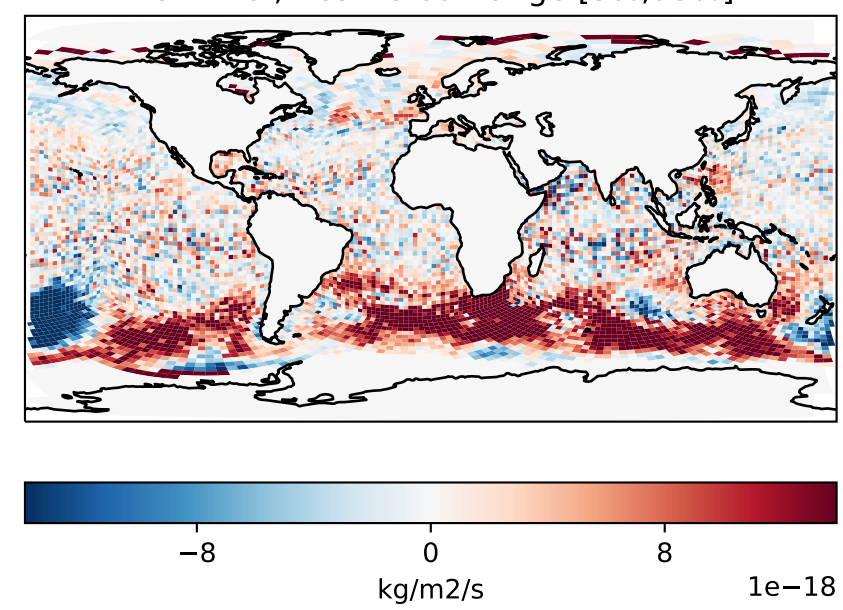
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c48



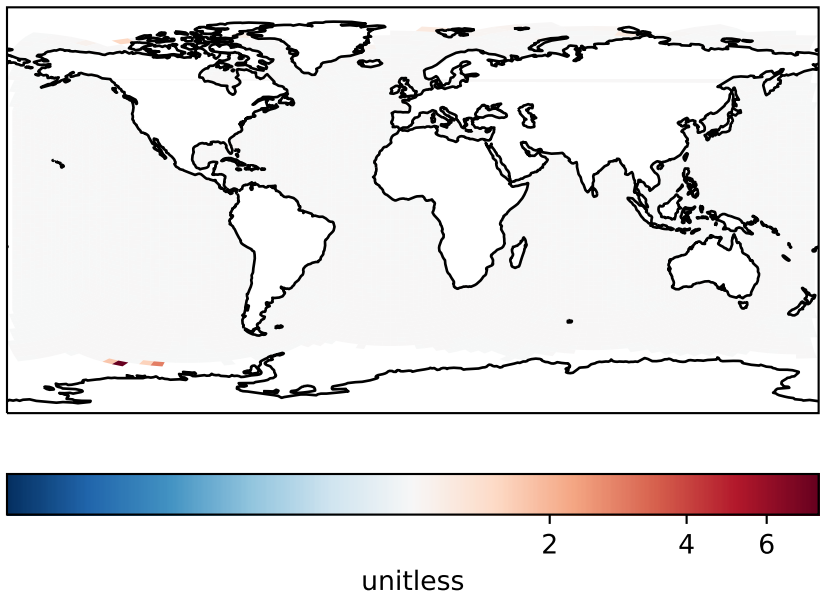
Difference
Dev - Ref, Dynamic Range



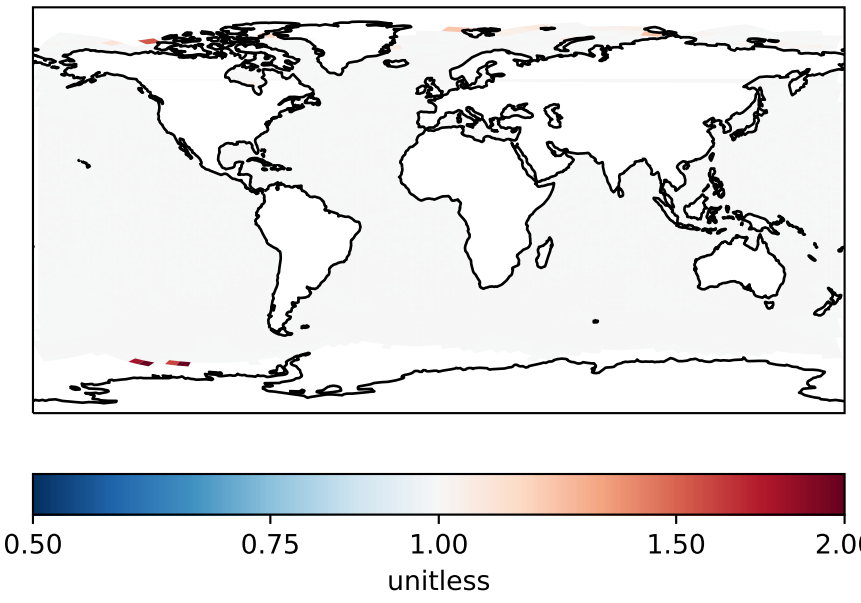
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

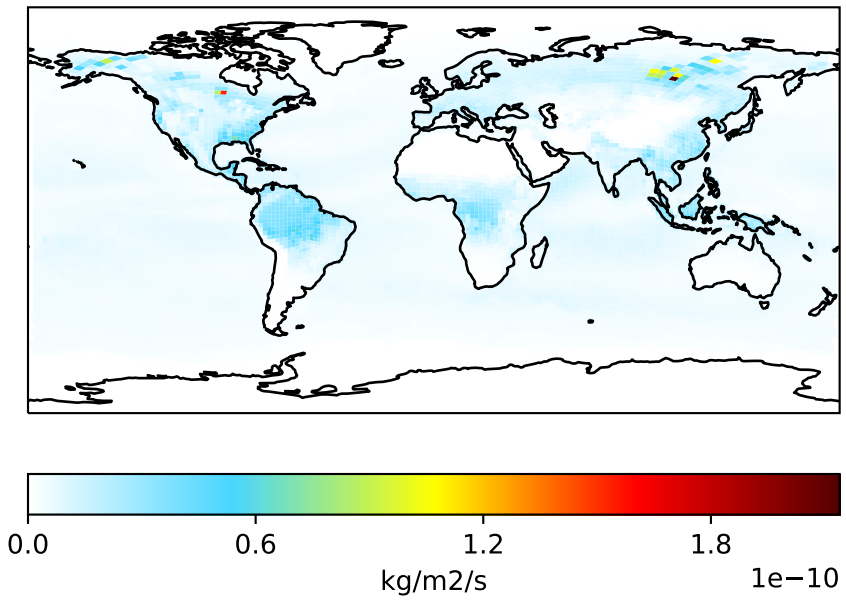


Ratio
Dev/Ref, Fixed Range

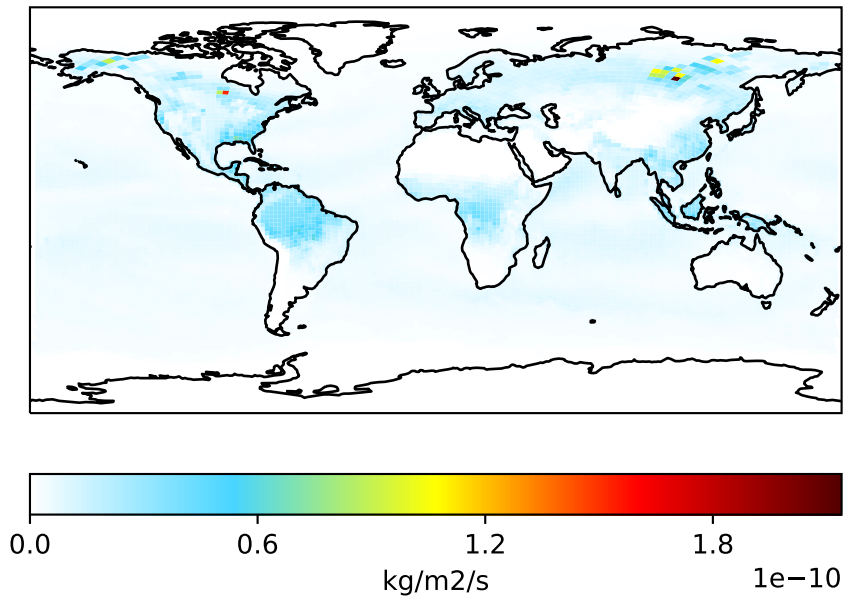


EmisACET_Total

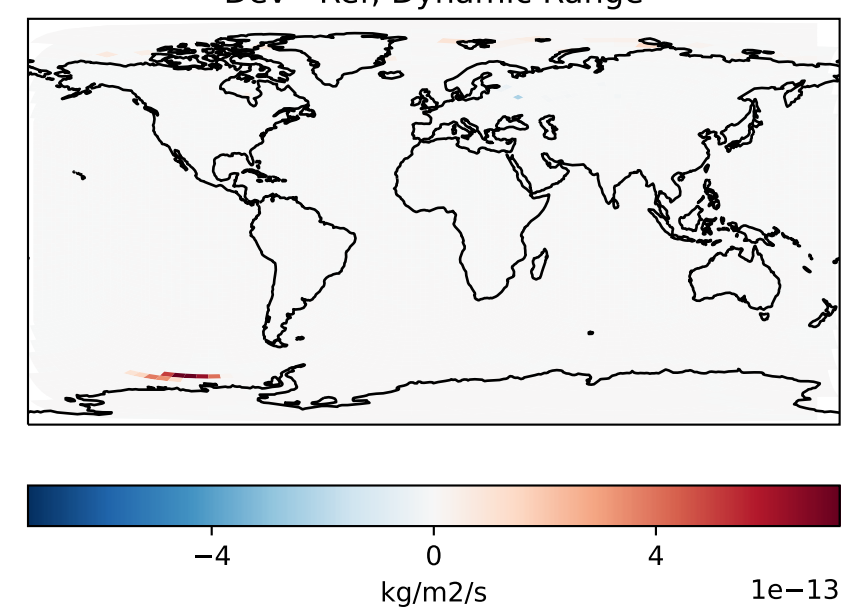
GCHP_13.3.0-rc.1 (Ref)
c48



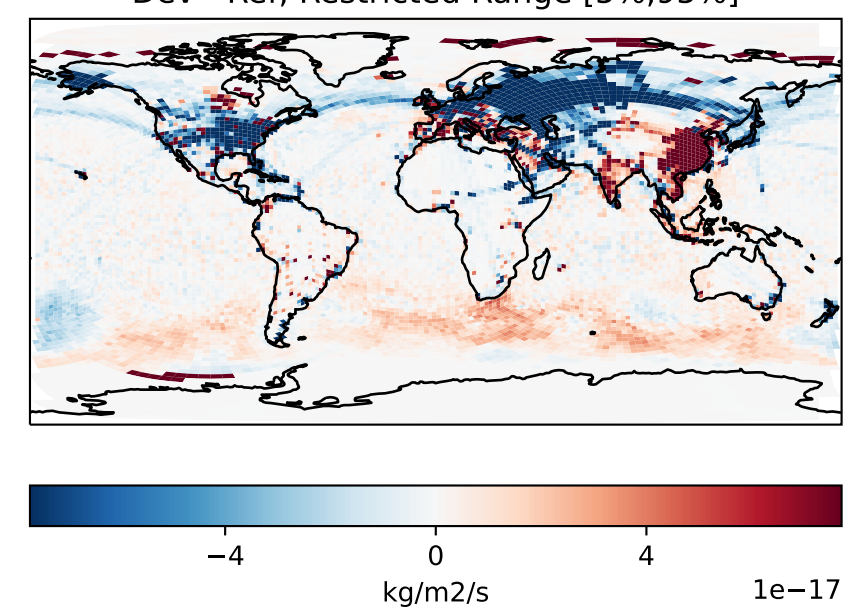
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c48



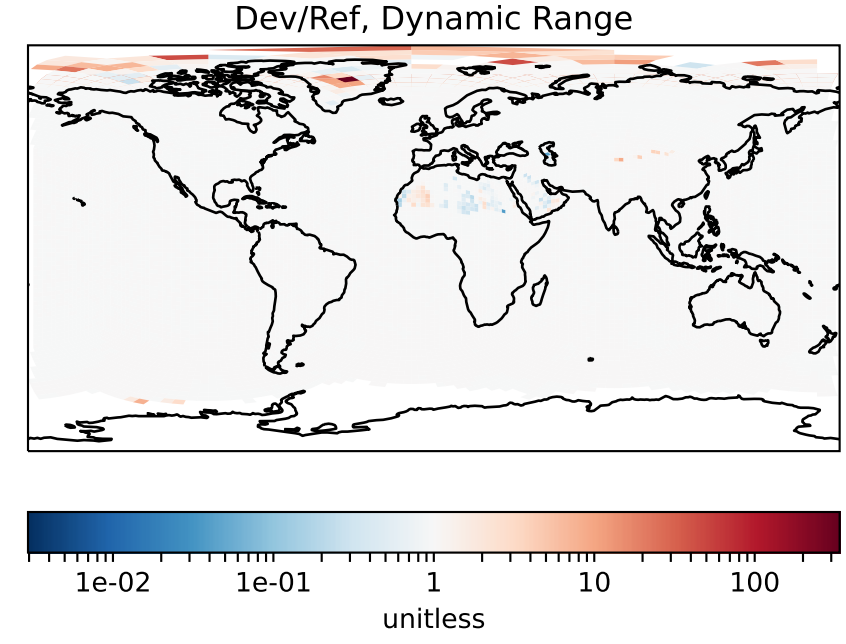
Difference
Dev - Ref, Dynamic Range



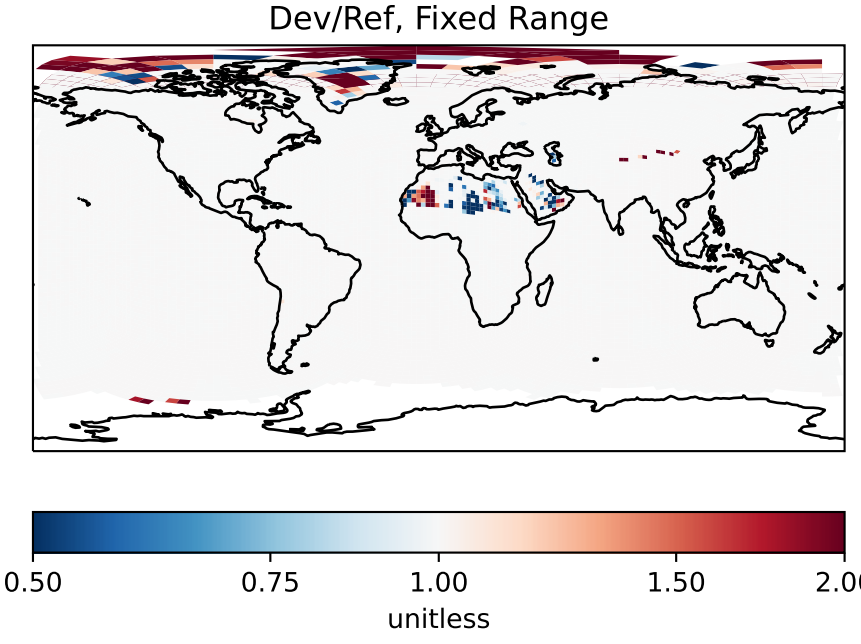
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

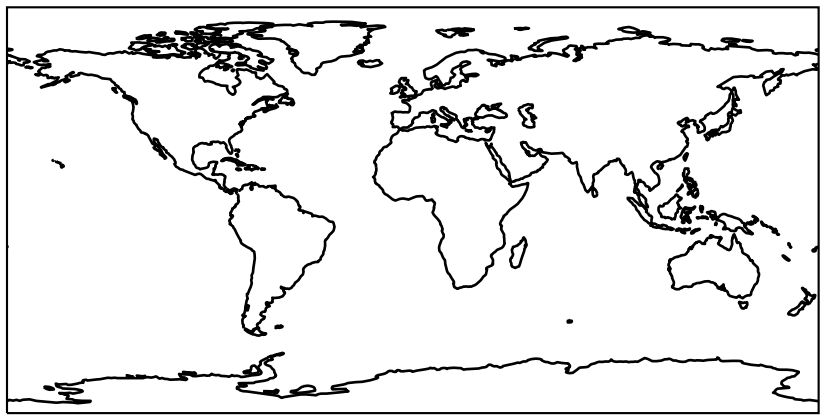


Ratio
Dev/Ref, Fixed Range



EmisHAC_Anthro

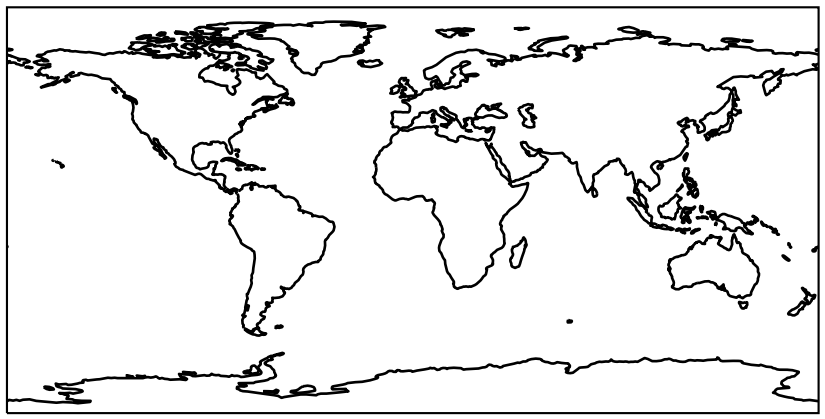
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

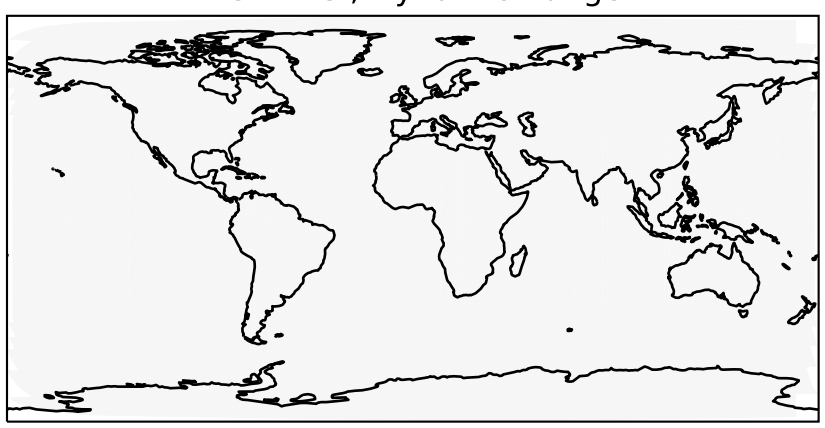
GCHP_13.4.0-rc.4 (Dev)
c48





Zero throughout domain
kg/m2/s

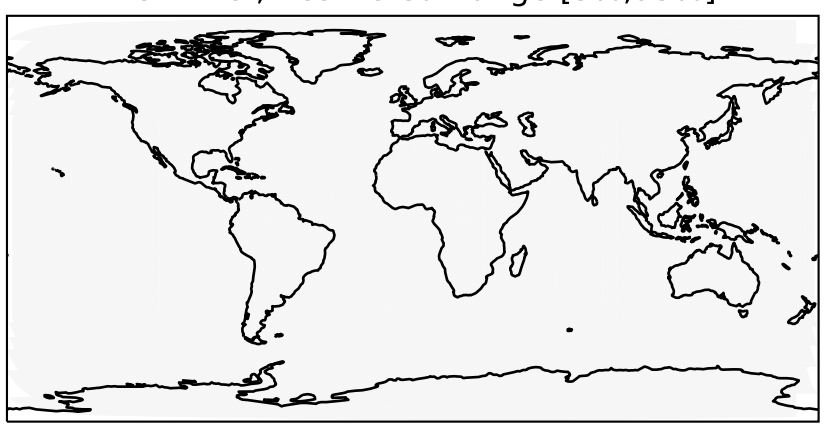
Difference
Dev - Ref, Dynamic Range





Zero throughout domain
kg/m2/s

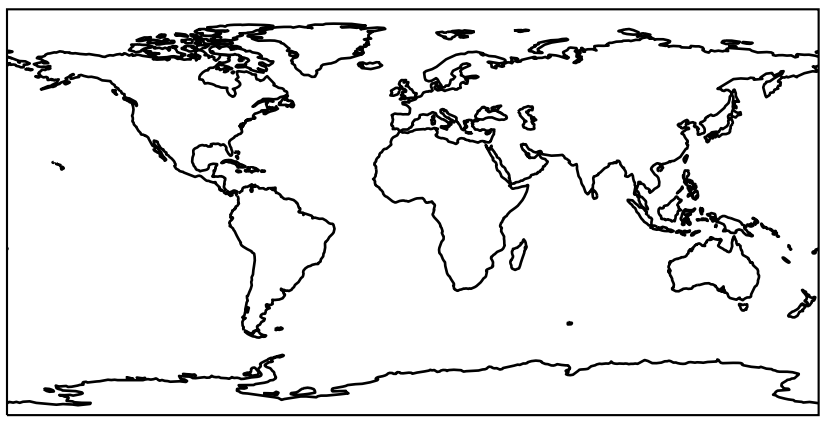
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

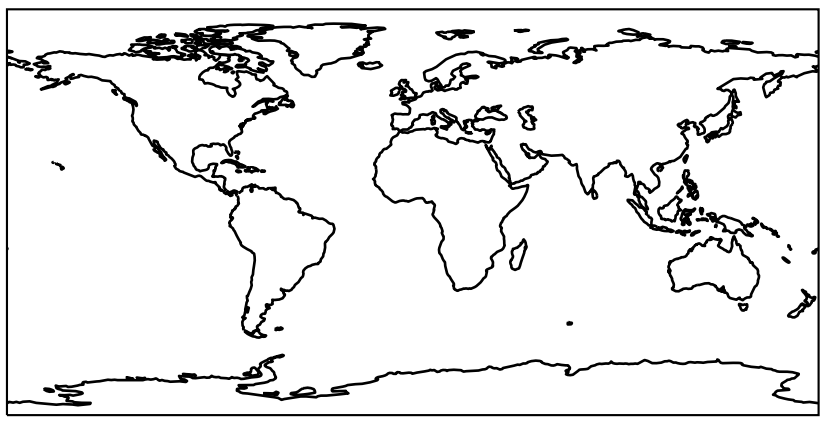
Ratio
Dev/Ref, Dynamic Range





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unitless

Ratio
Dev/Ref, Fixed Range

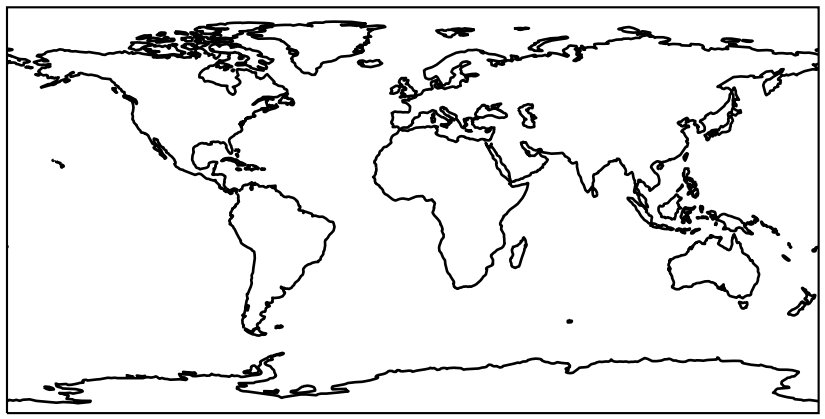




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unitless

EmisHAC_Total

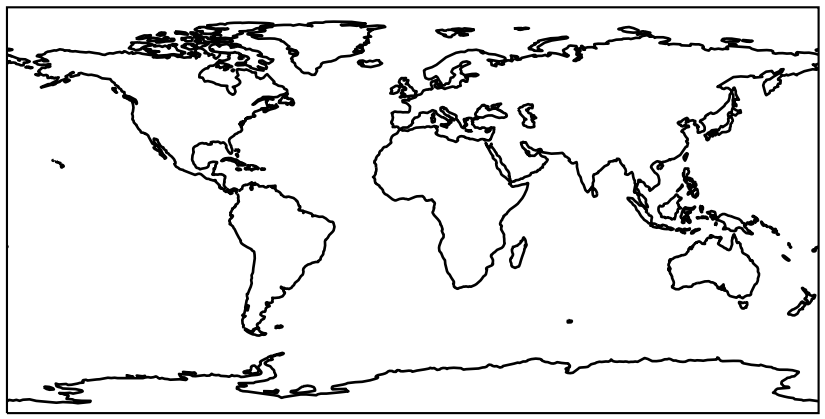
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

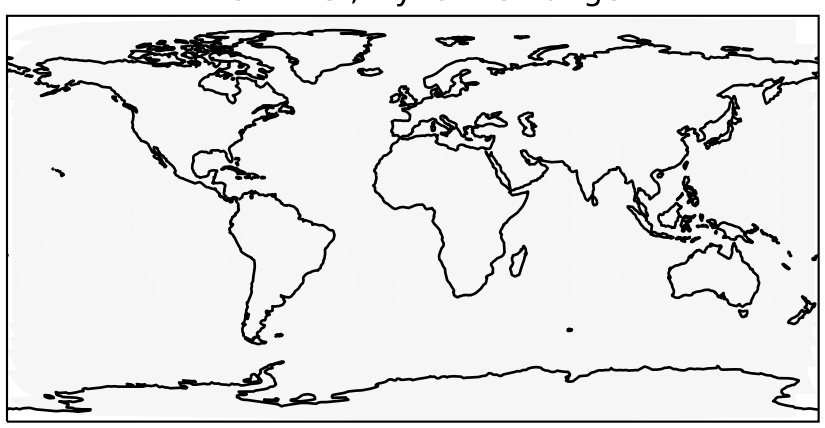
GCHP_13.4.0-rc.4 (Dev)
c48





Zero throughout domain
kg/m2/s

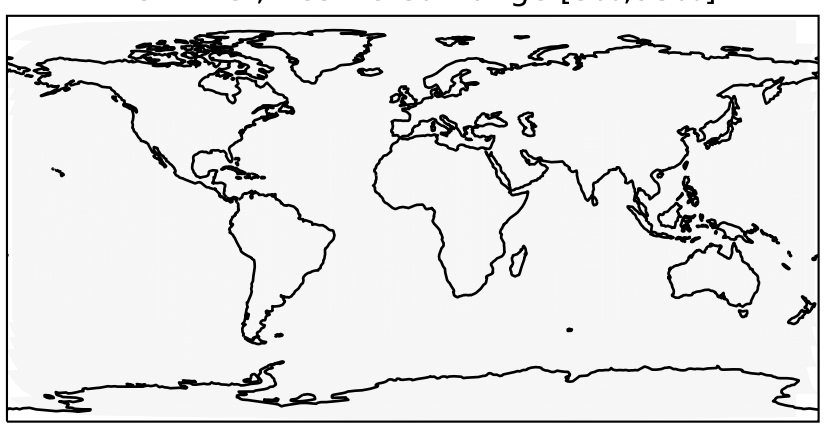
Difference
Dev - Ref, Dynamic Range





Zero throughout domain
kg/m2/s

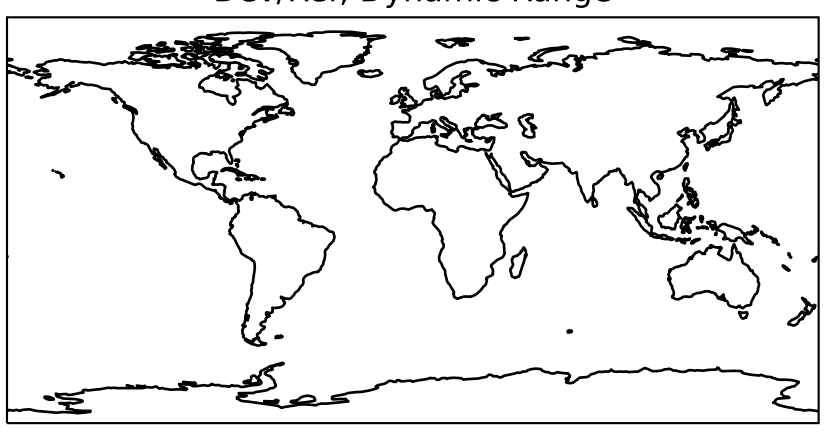
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

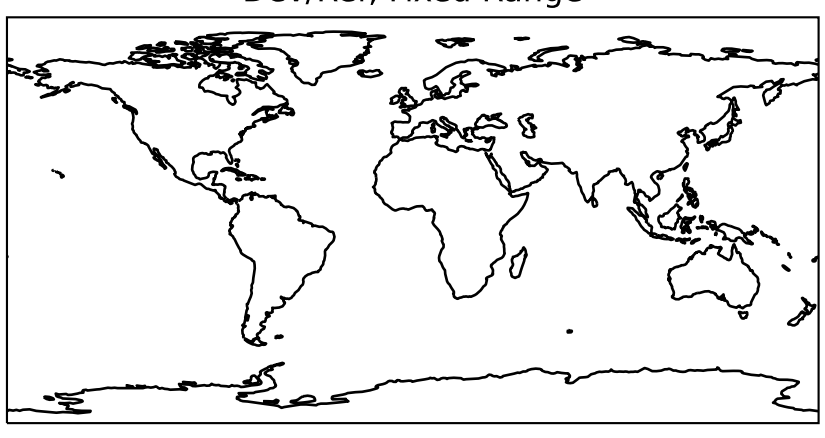
Ratio
Dev/Ref, Dynamic Range





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unitless

Ratio
Dev/Ref, Fixed Range

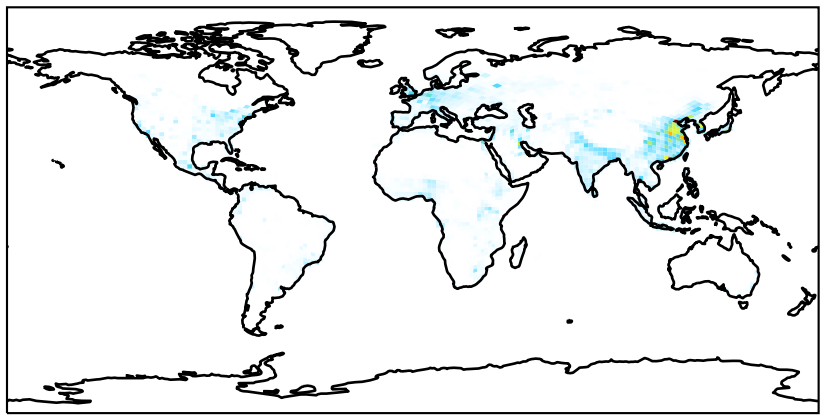


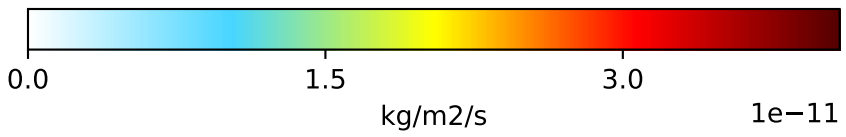


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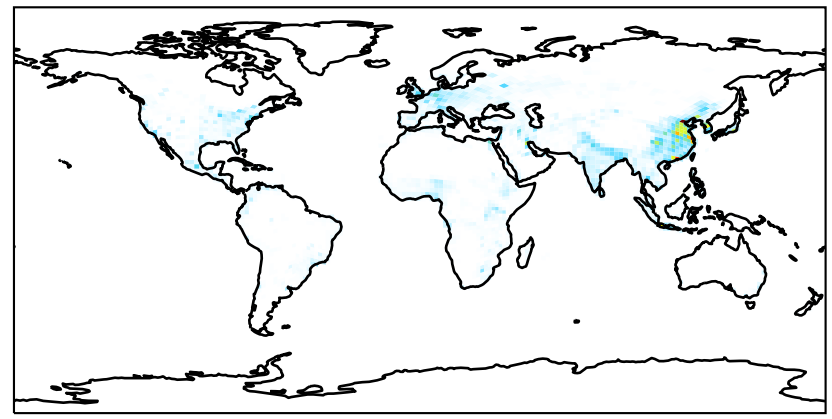
EmisMEK_Anthro

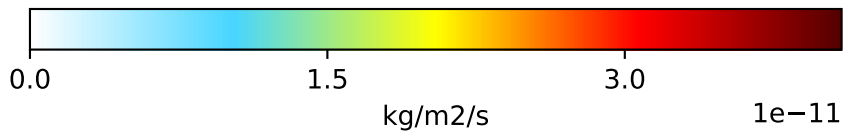
GCHP_13.3.0-rc.1 (Ref)
c48



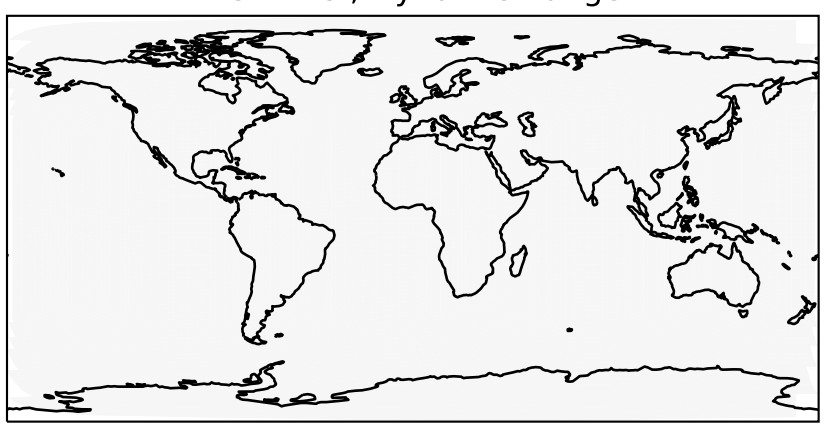


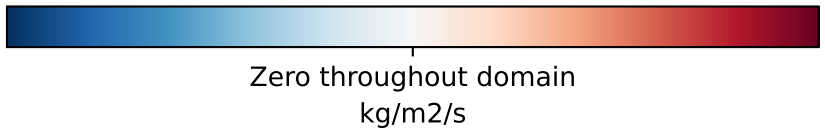
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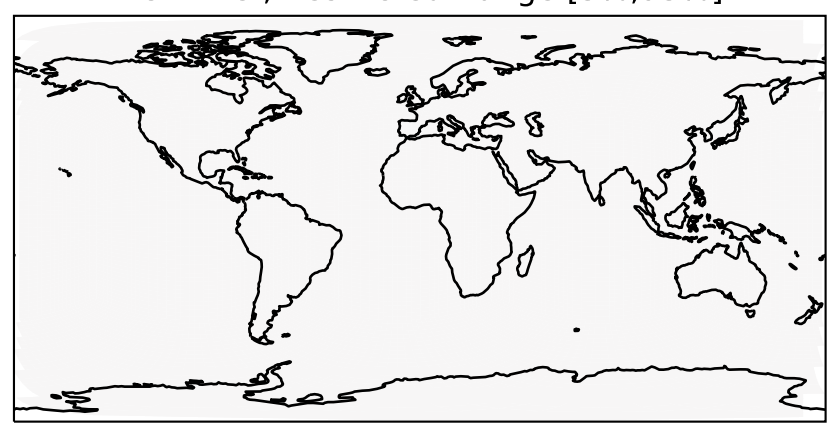


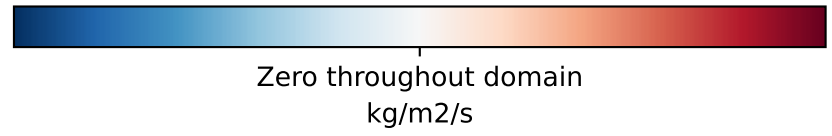
Difference
Dev - Ref, Dynamic Range



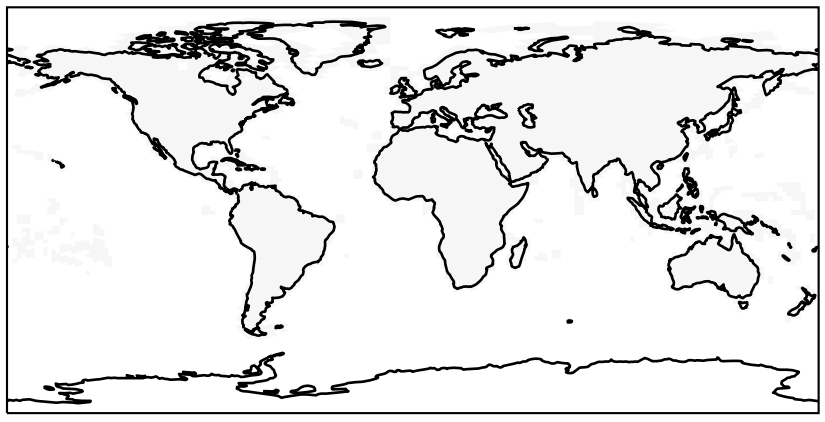


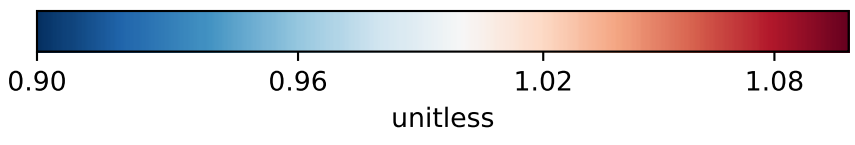
Difference
Dev - Ref, Restricted Range [5%,95%]



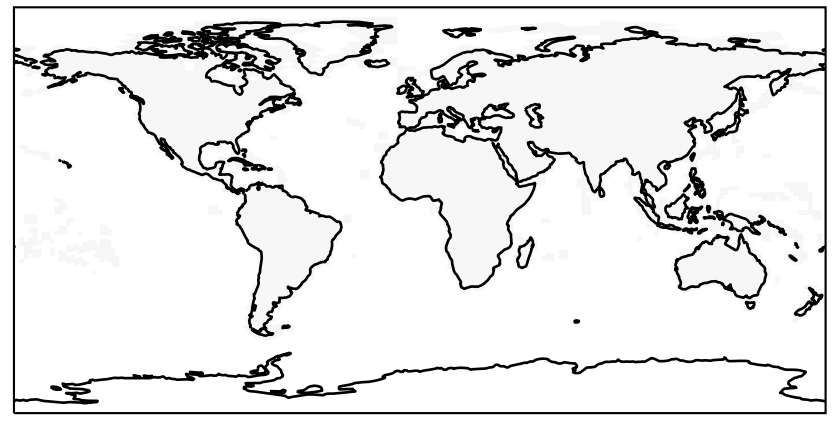


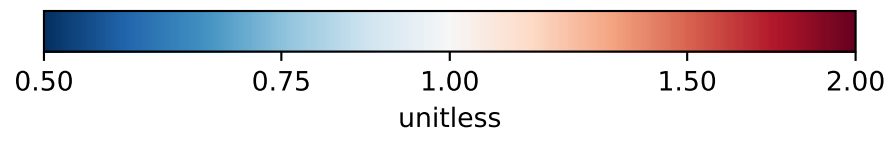
Ratio
Dev/Ref, Dynamic Range





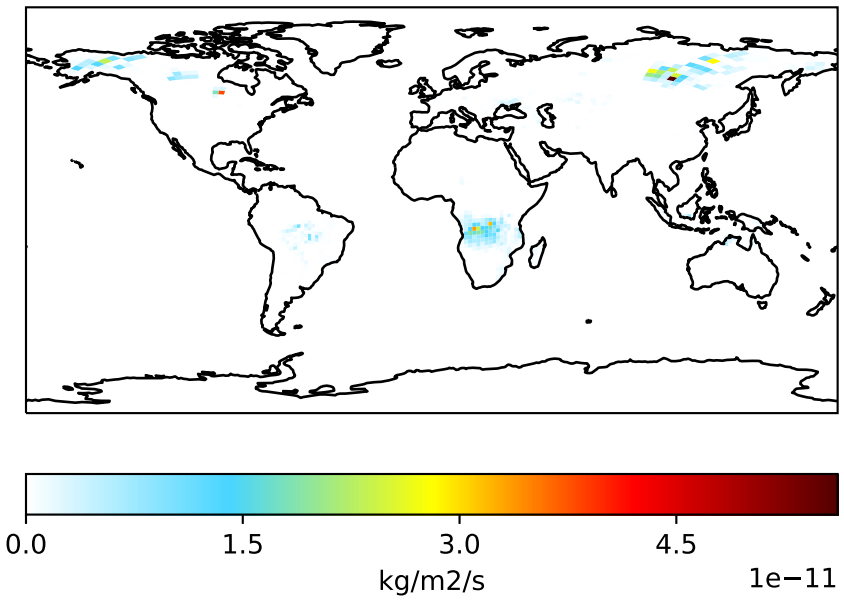
Ratio
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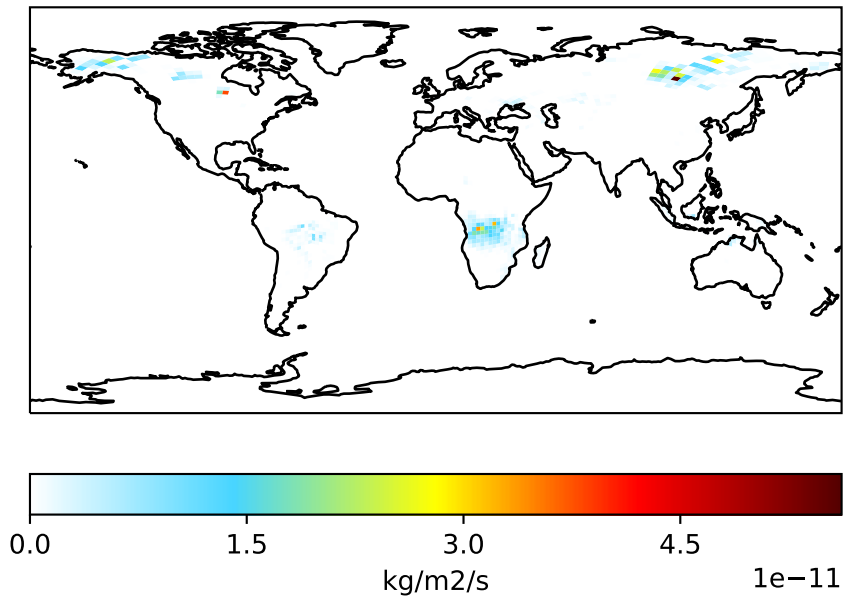


EmisMEK_BioBurn

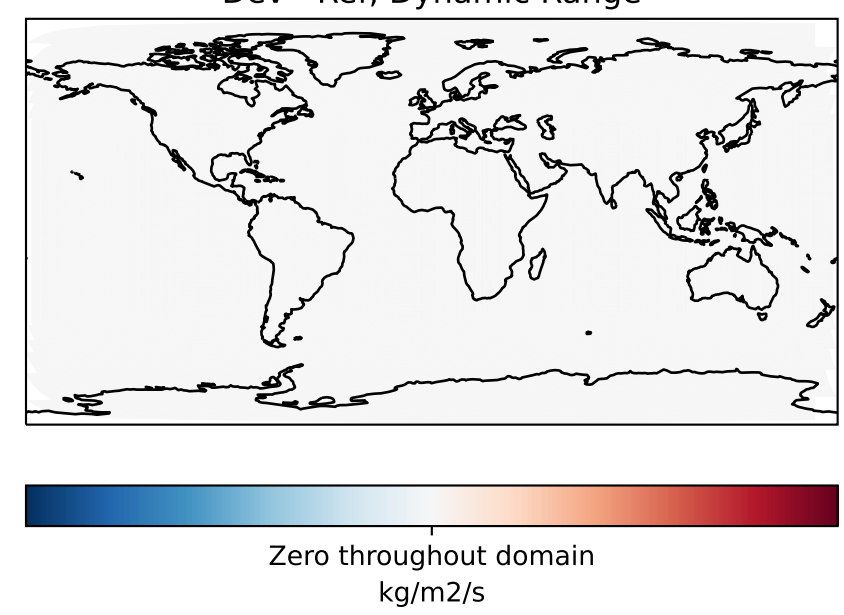
GCHP_13.3.0-rc.1 (Ref)
c48



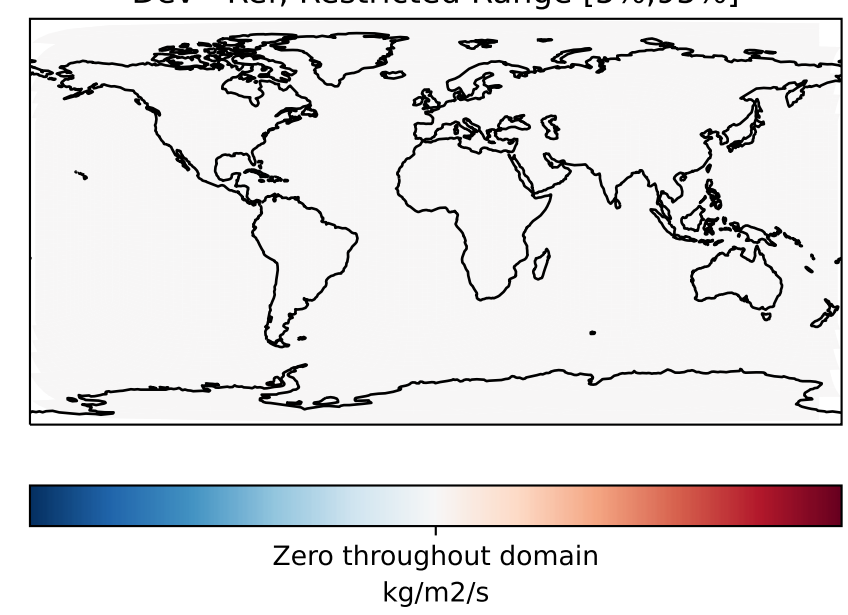
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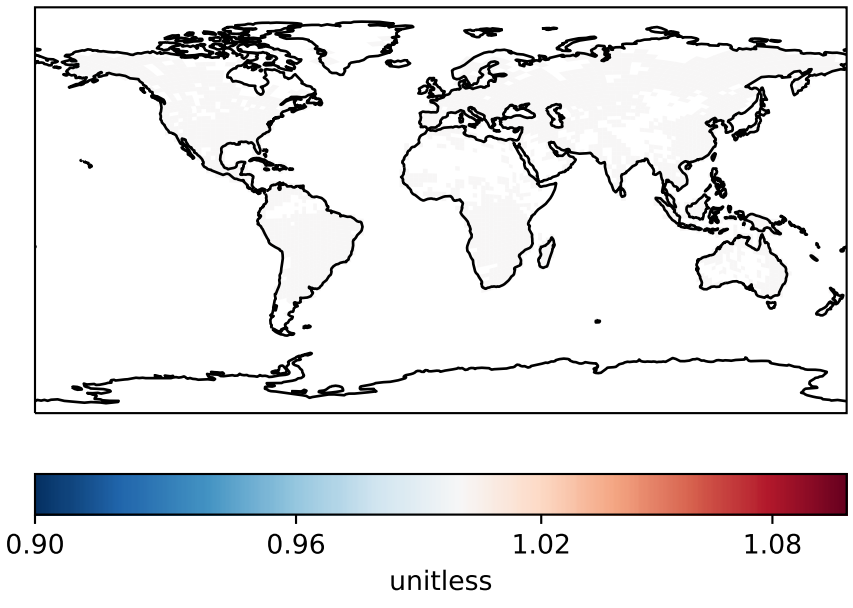
Difference
Dev - Ref, Dynamic Range



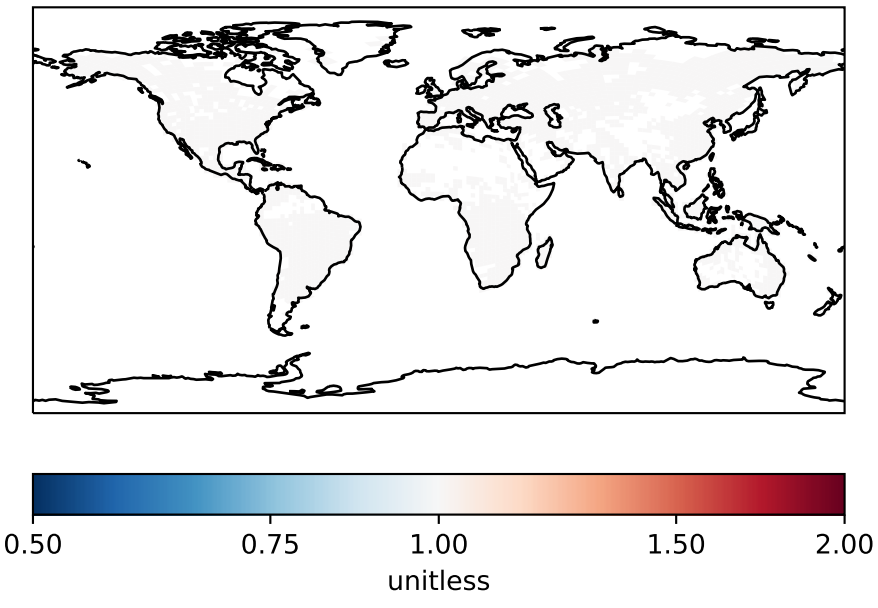
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

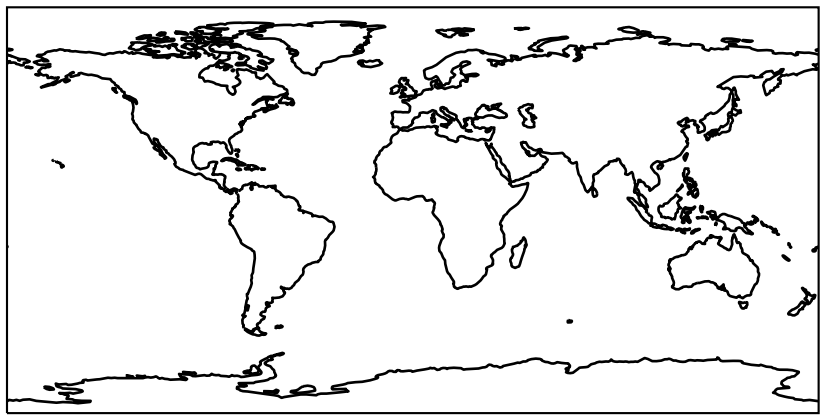


Ratio
Dev/Ref, Fixed Range



EmisMEK_Ship

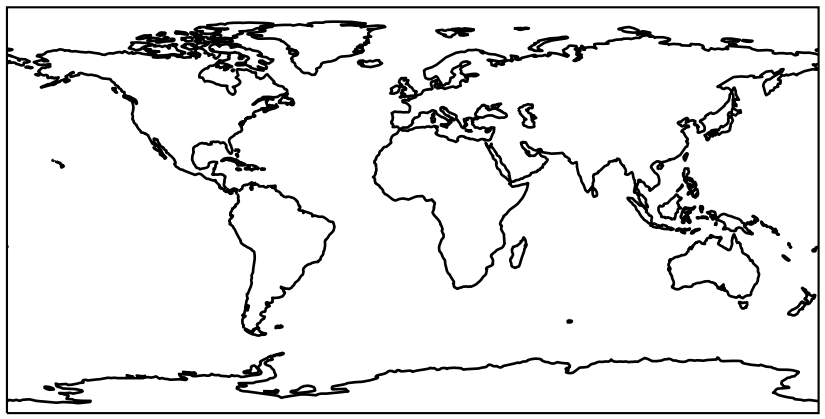
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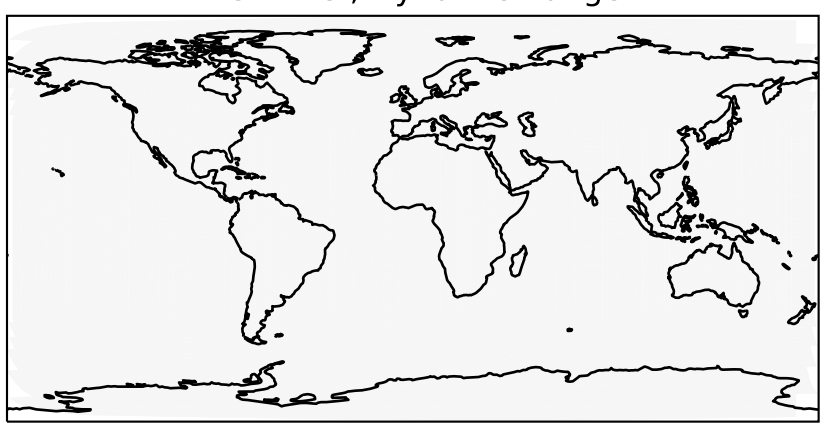
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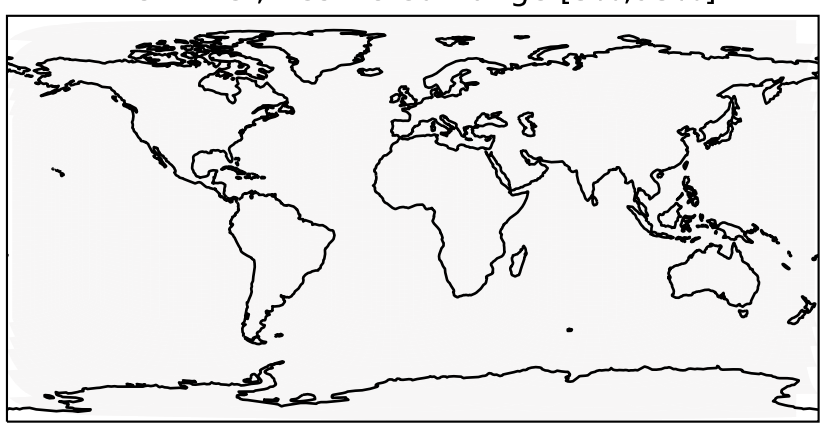
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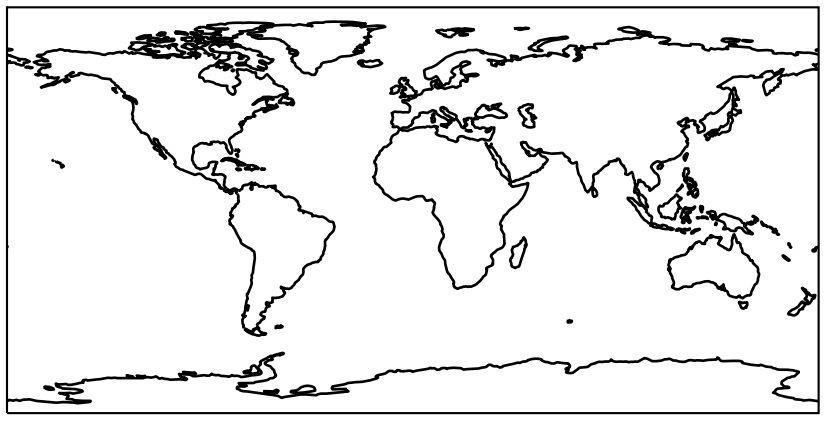
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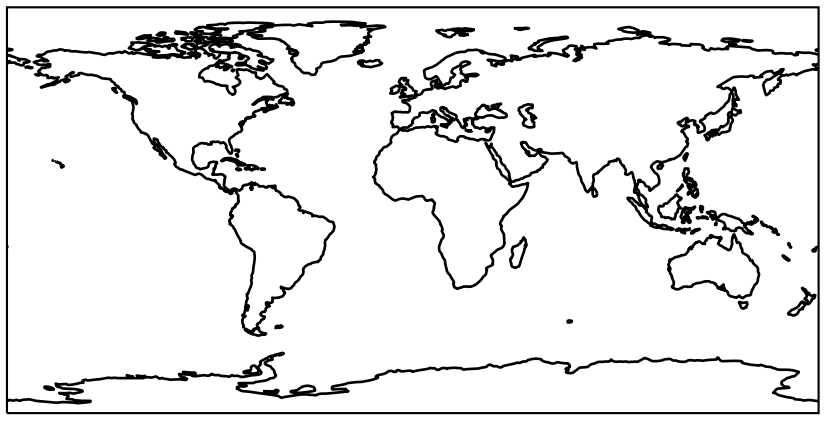
Ratio
Dev/Ref, Dynamic Range





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Ratio
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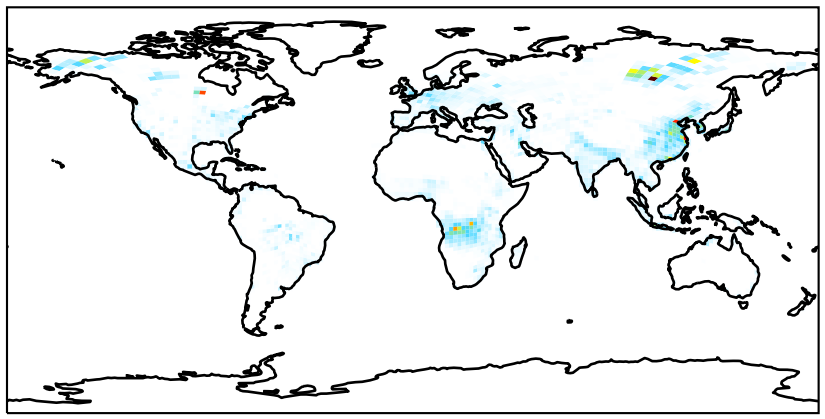


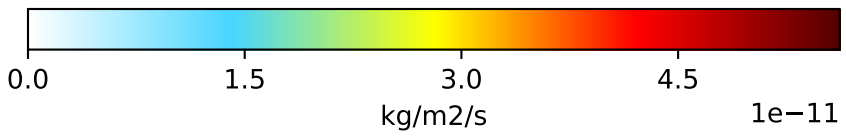


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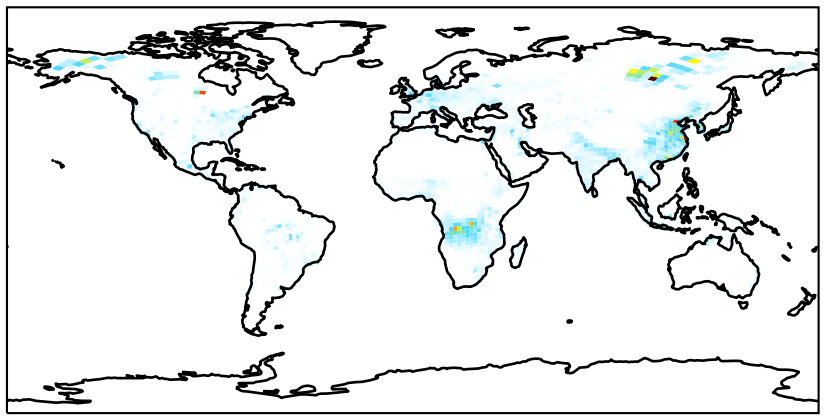
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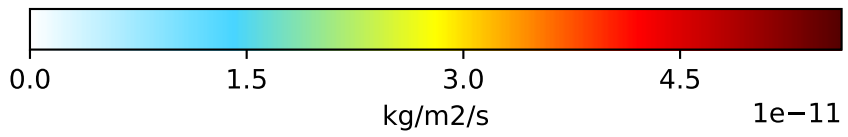
GCHP_13.3.0-rc.1 (Ref)
c48



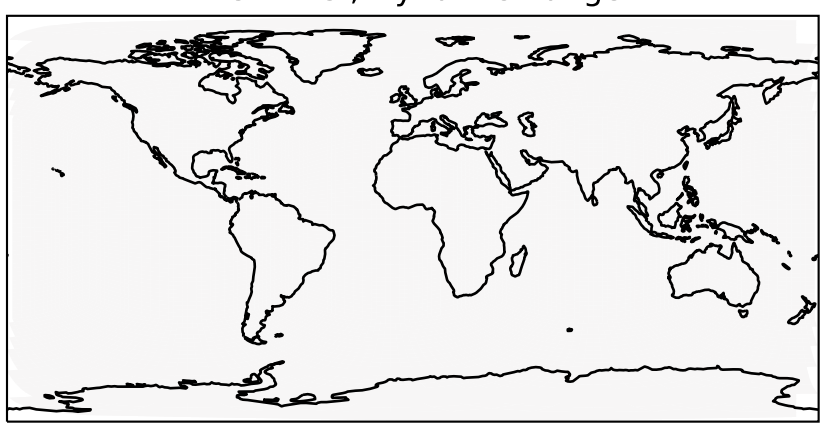


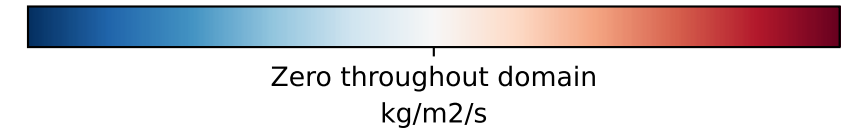
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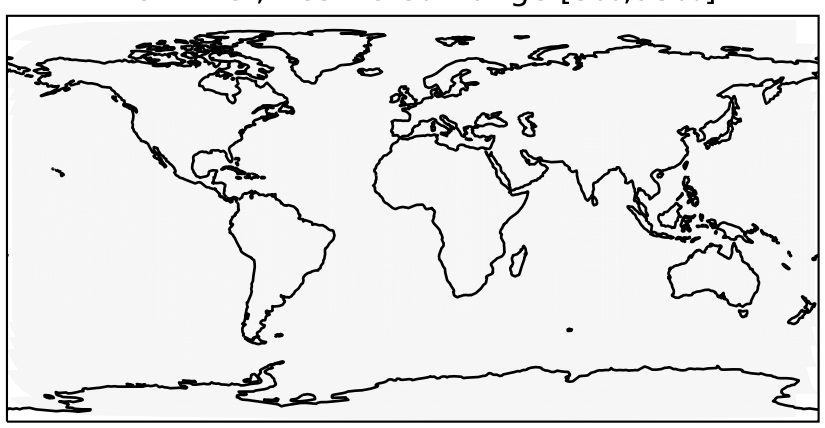


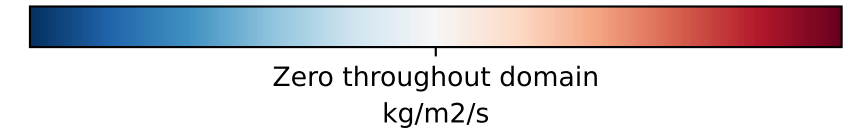
Difference
Dev - Ref, Dynamic Range



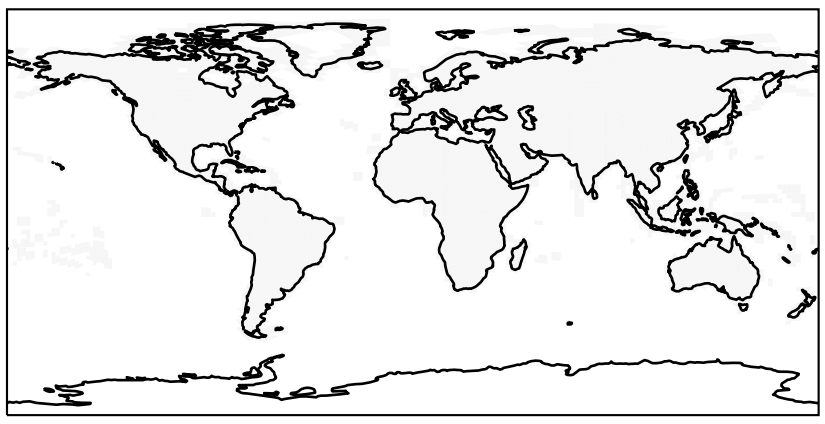


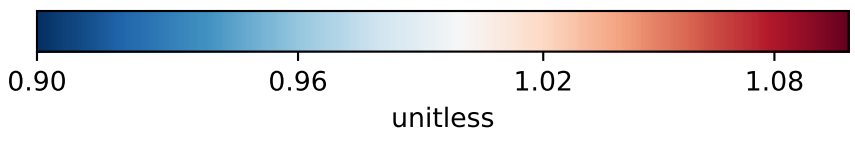
Difference
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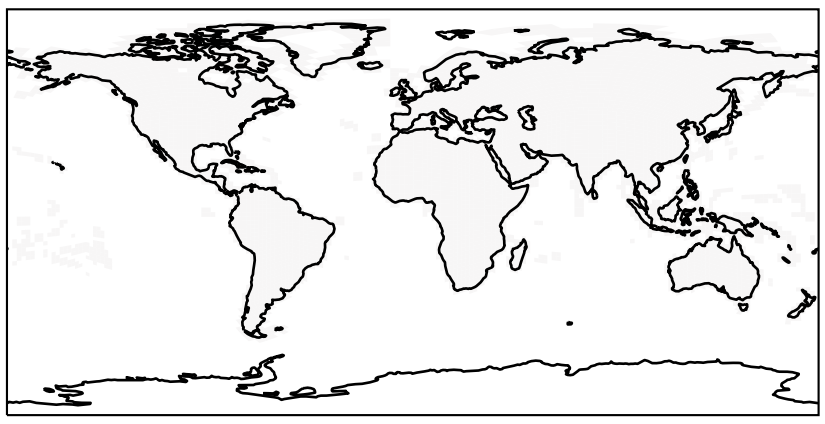


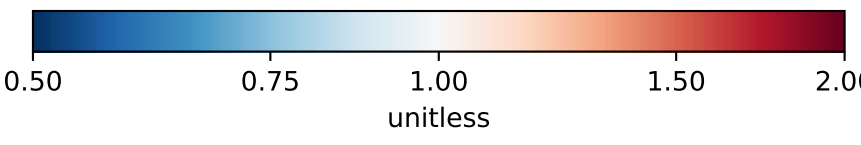
Ratio
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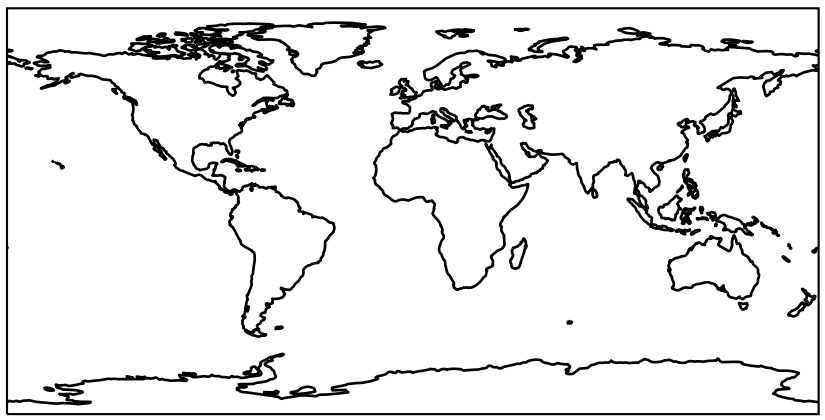
Ratio
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EmisMVK_Anthro

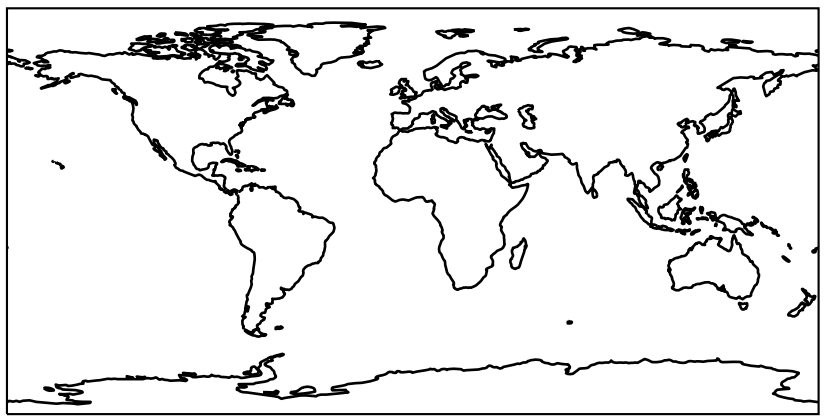
GCHP_13.3.0-rc.1 (Ref)
c48





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kg/m2/s

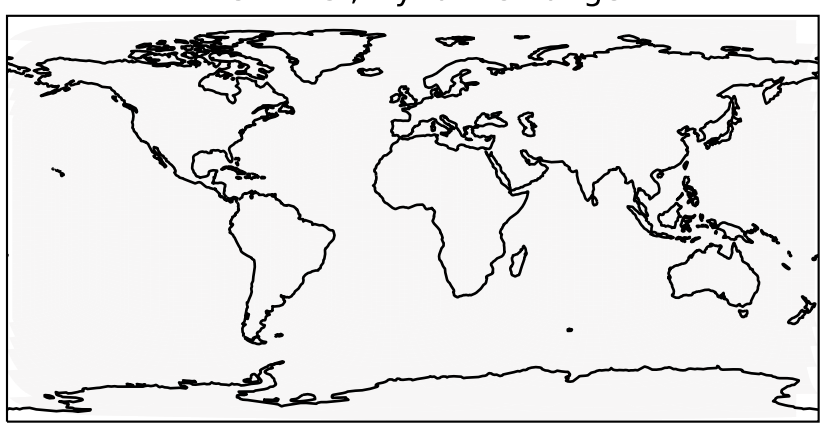
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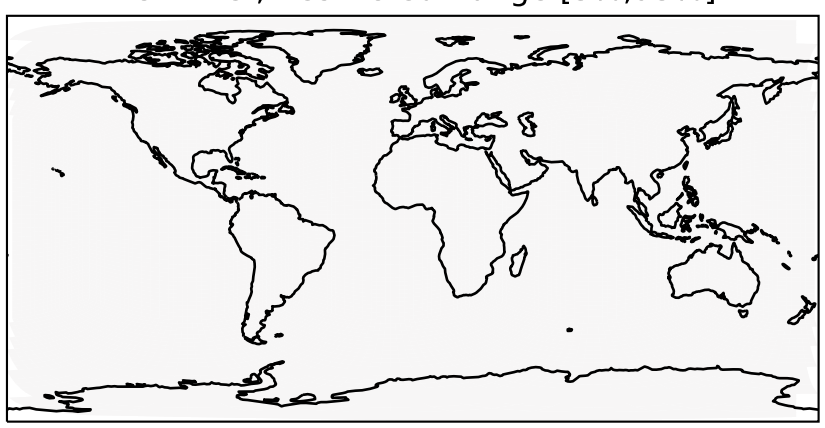
Difference
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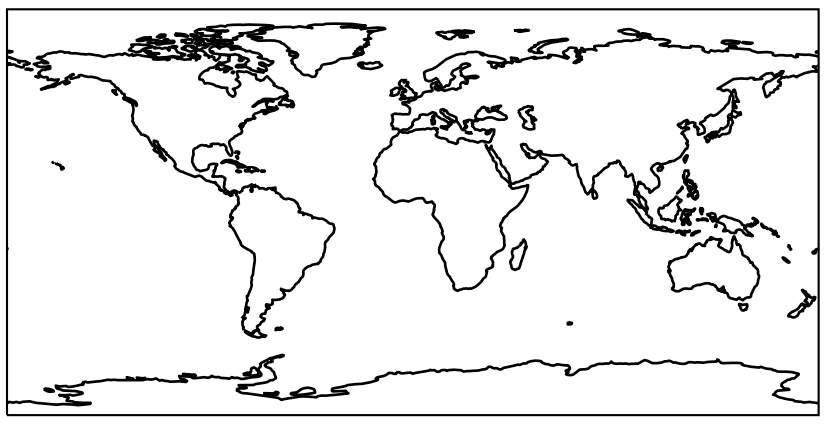
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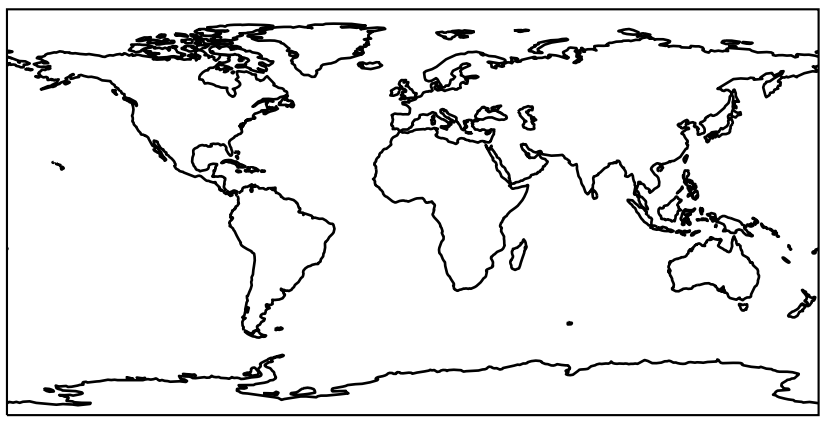
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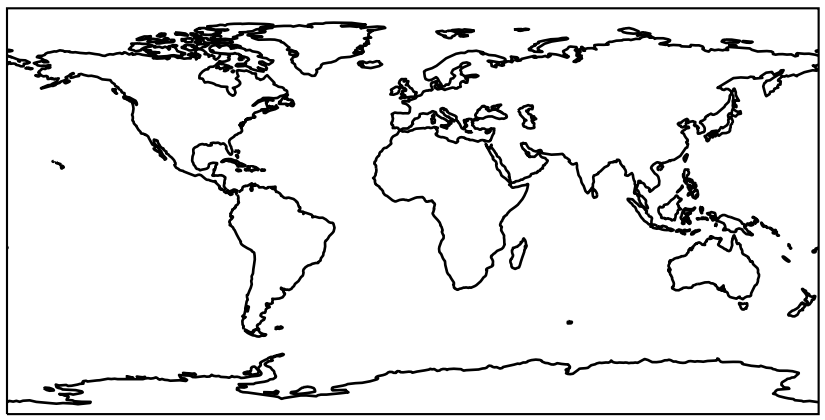




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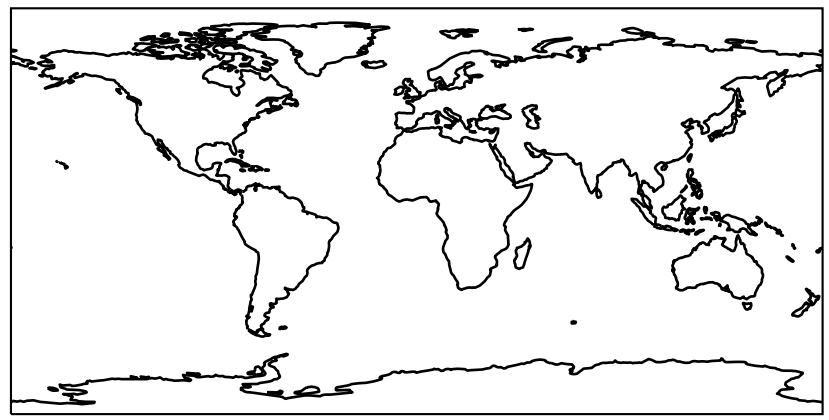
EmisGLYC_Anthro

GCHP_13.3.0-rc.1 (Ref)
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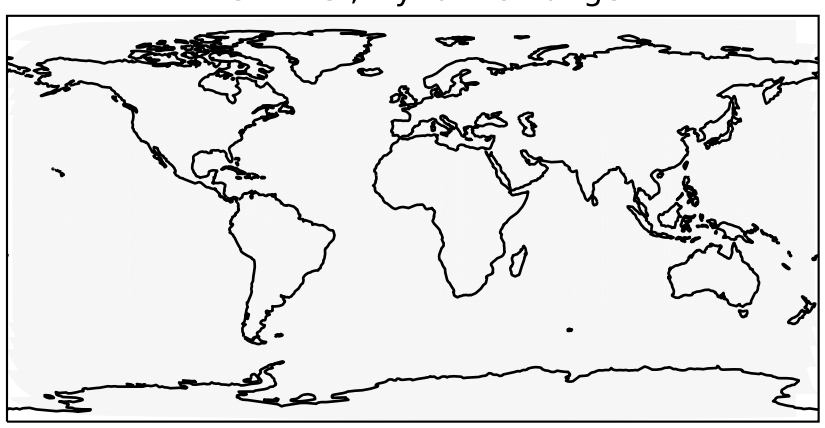
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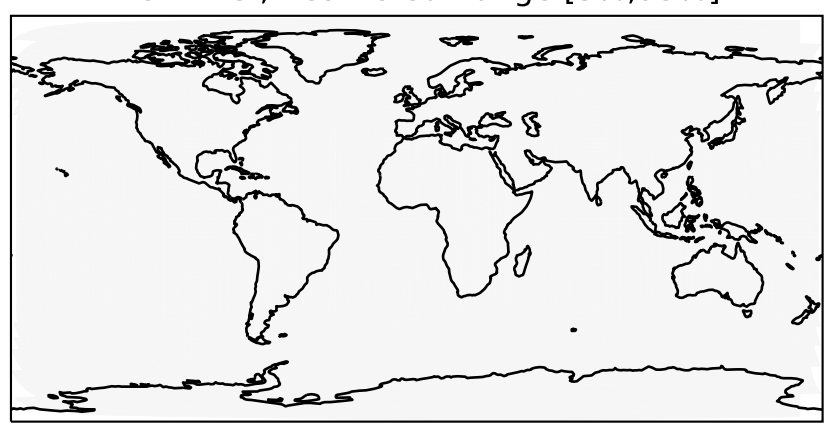
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Difference
Dev - Ref, Dynamic Range



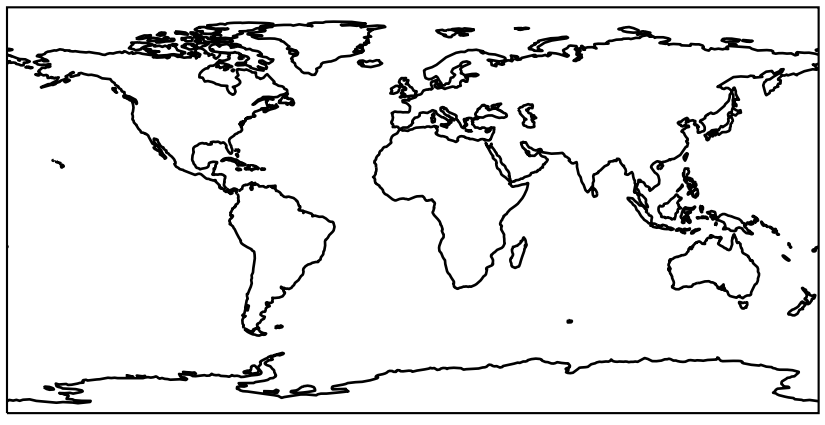
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kg/m2/s

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



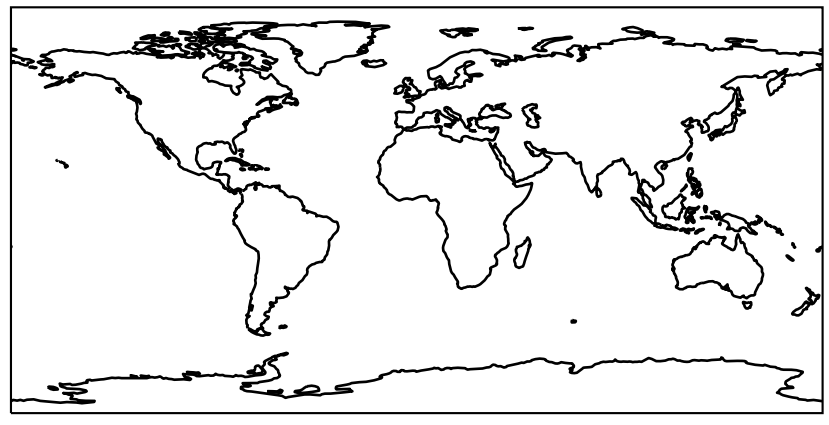
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Ratio
Dev/Ref, Dynamic Range



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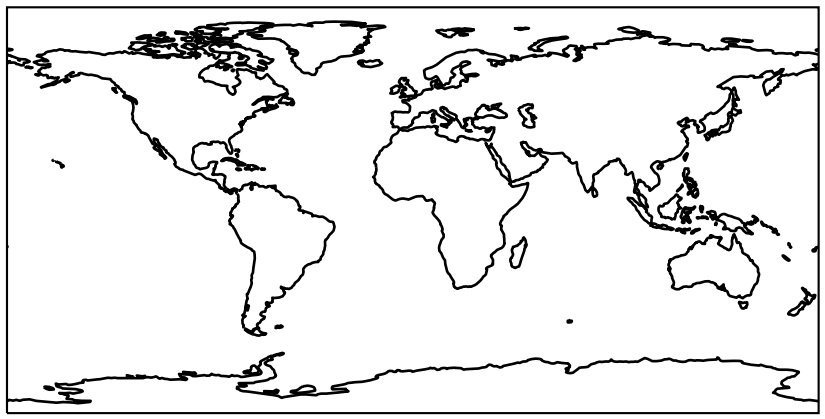
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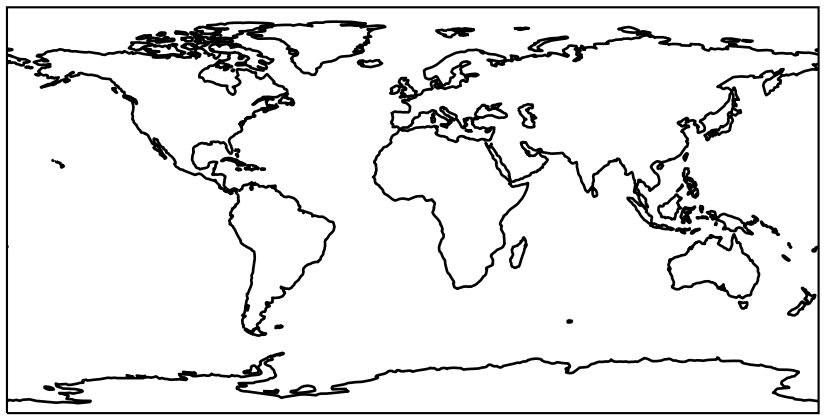
EmisGLYC_Total

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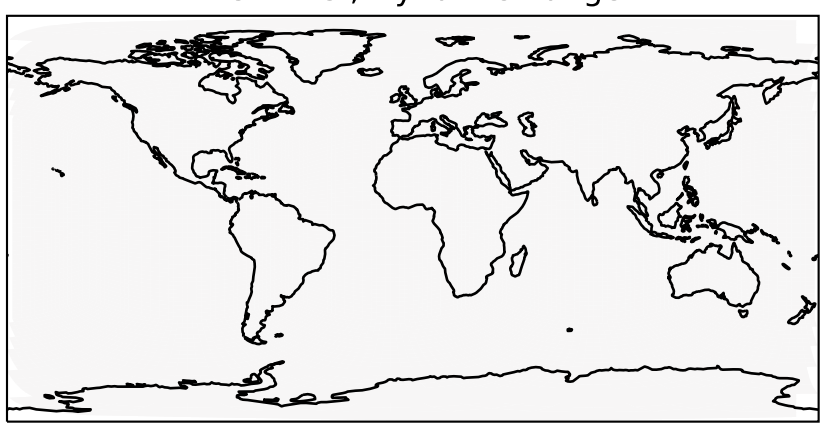
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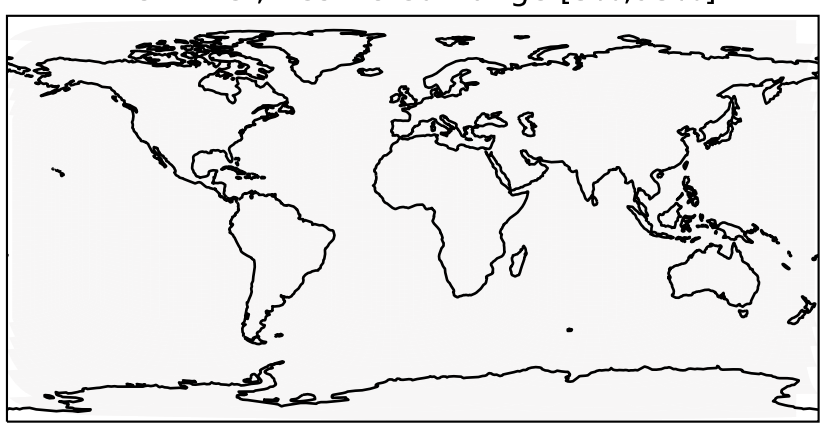
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Difference
Dev - Ref, Dynamic Range



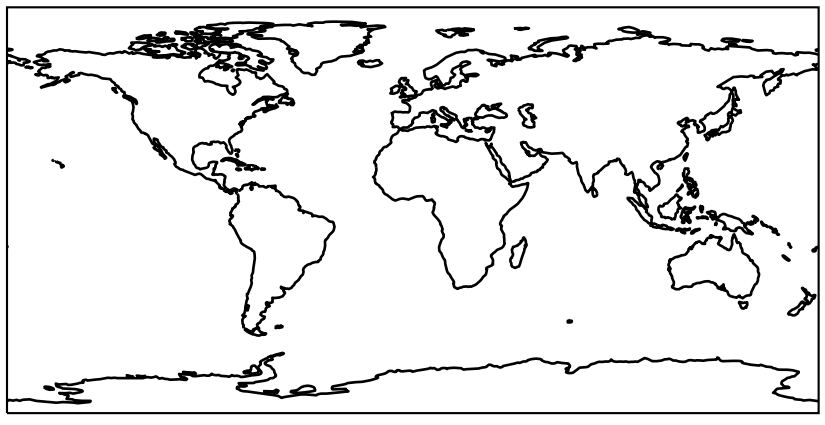
Zero throughout domain
kg/m2/s

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



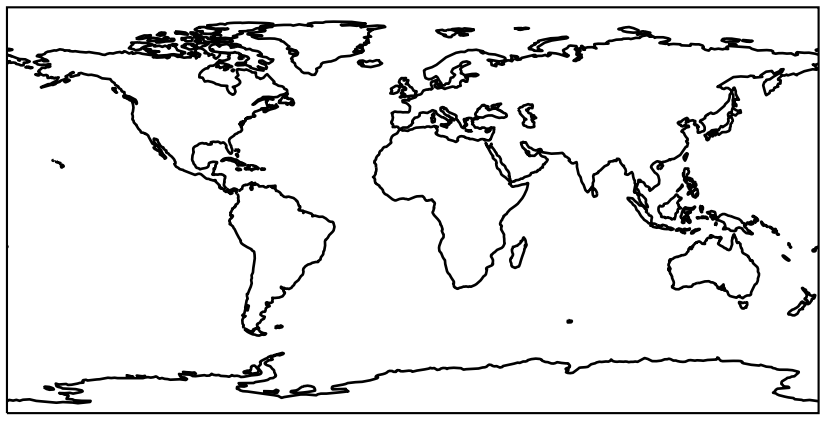
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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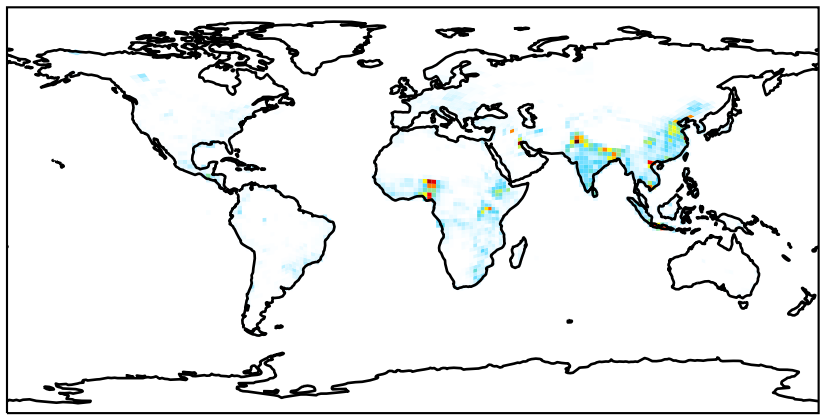
Ratio
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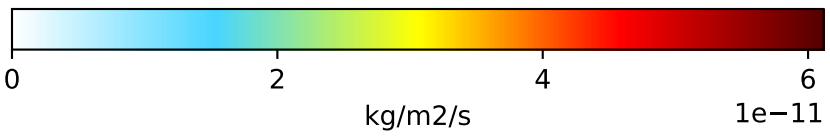


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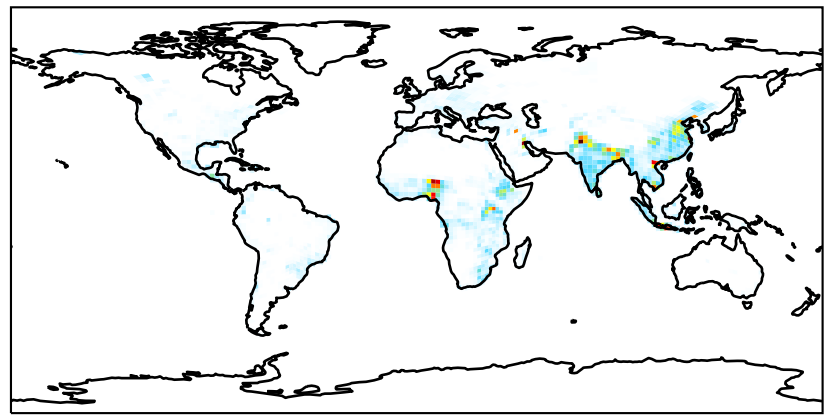
EmisHCOOH_Anthro

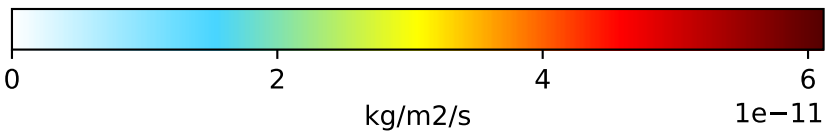
GCHP_13.3.0-rc.1 (Ref)
c48



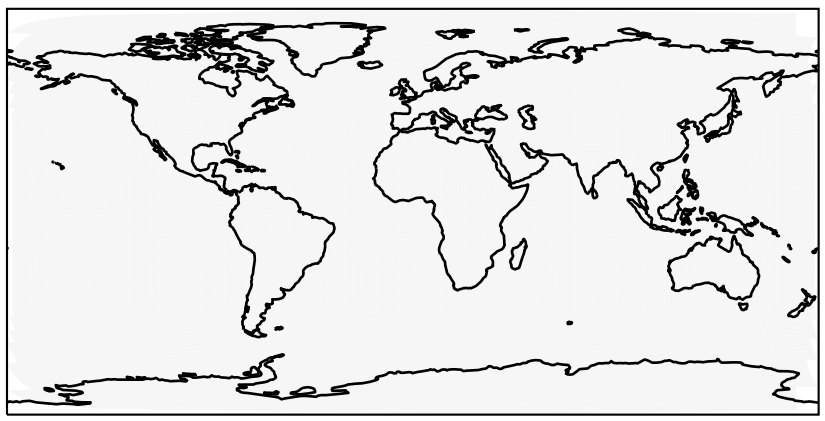


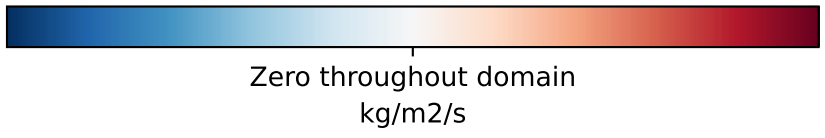
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c48



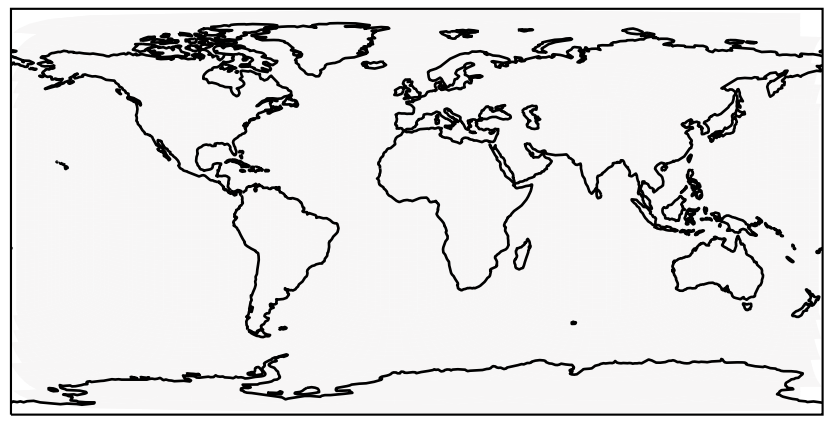


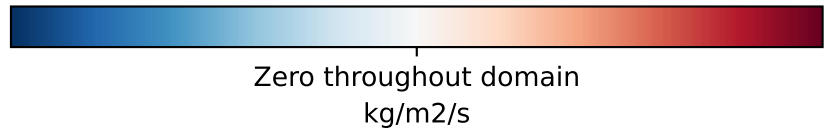
Difference
Dev - Ref, Dynamic Range



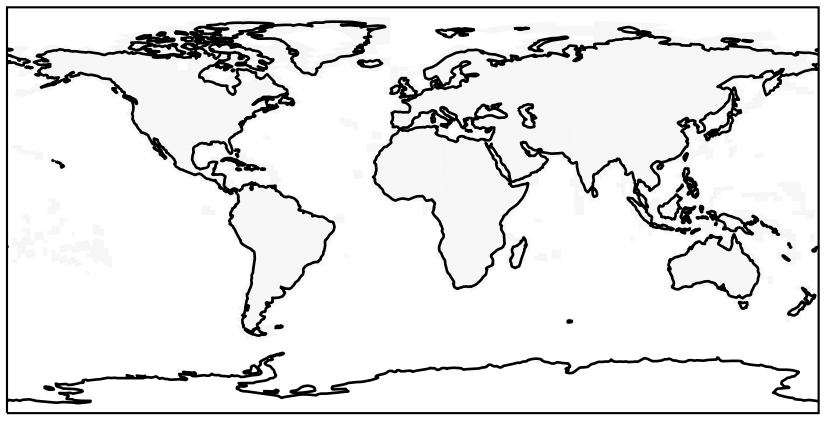


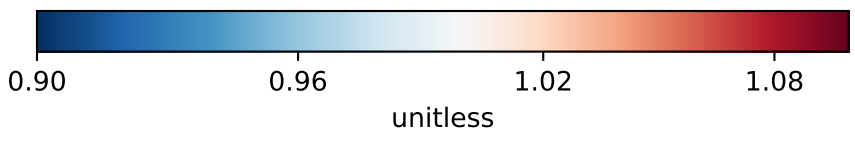
Difference
Dev - Ref, Restricted Range [5%,95%]



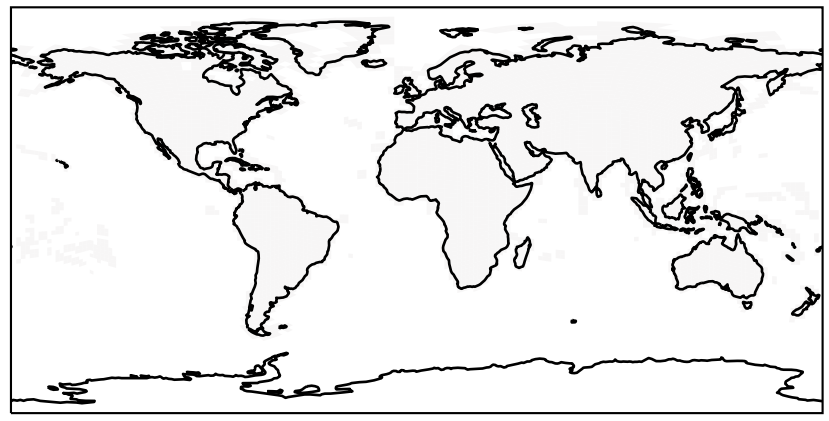


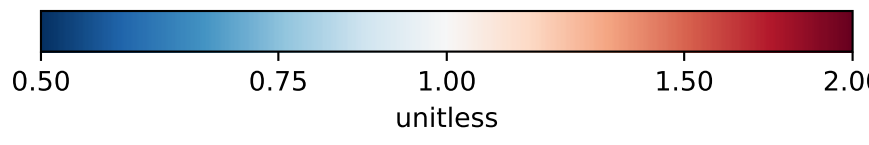
Ratio
Dev/Ref, Dynamic Range





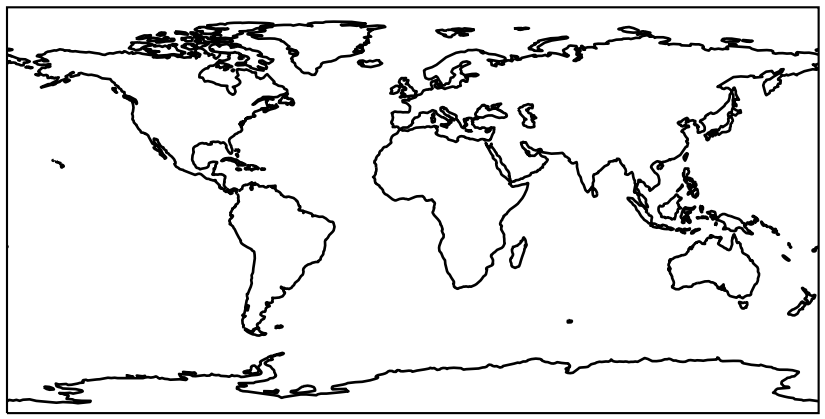
Ratio
Dev/Ref, Fixed Range





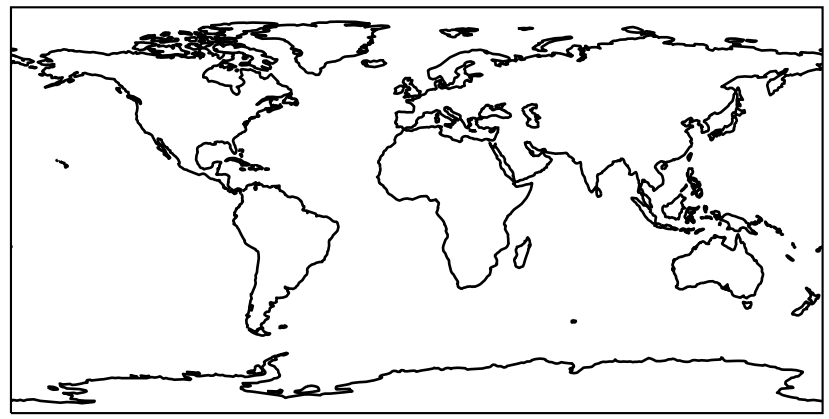
EmisHCOOH_Ship

GCHP_13.3.0-rc.1 (Ref)
c48



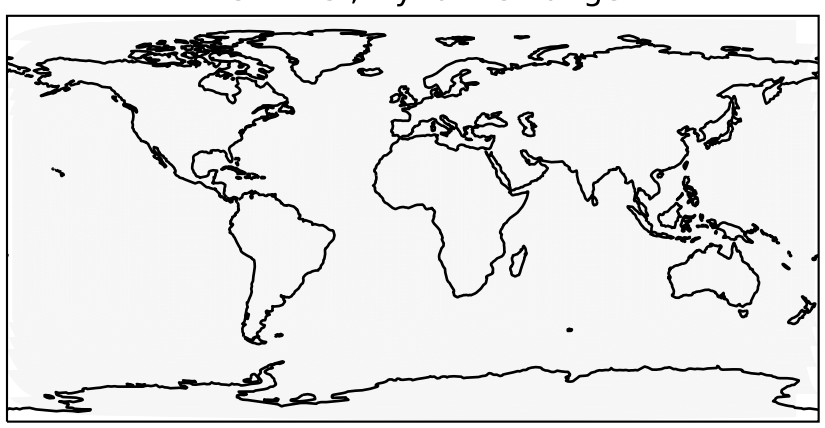
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kg/m2/s

GCHP_13.4.0-rc.4 (Dev)
c48



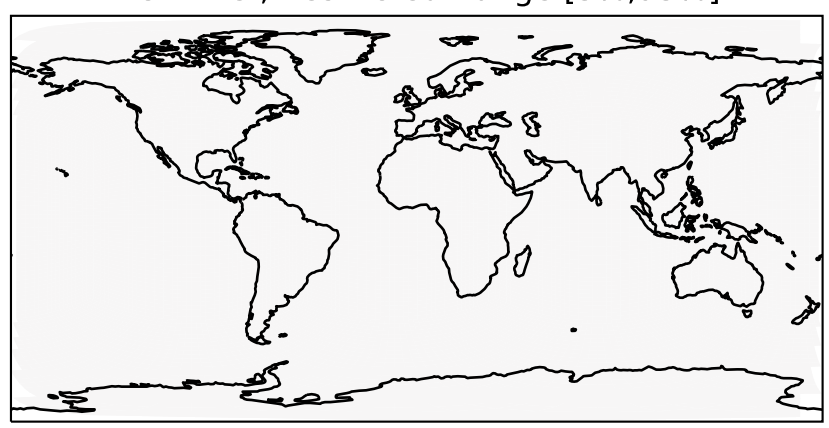
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



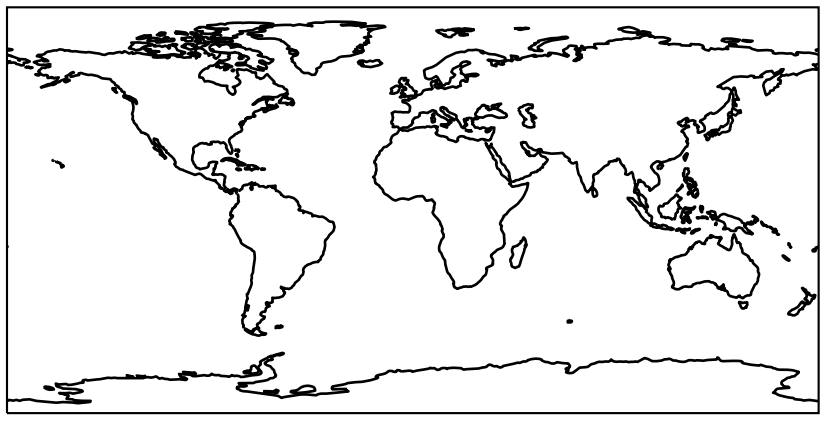
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kg/m2/s

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



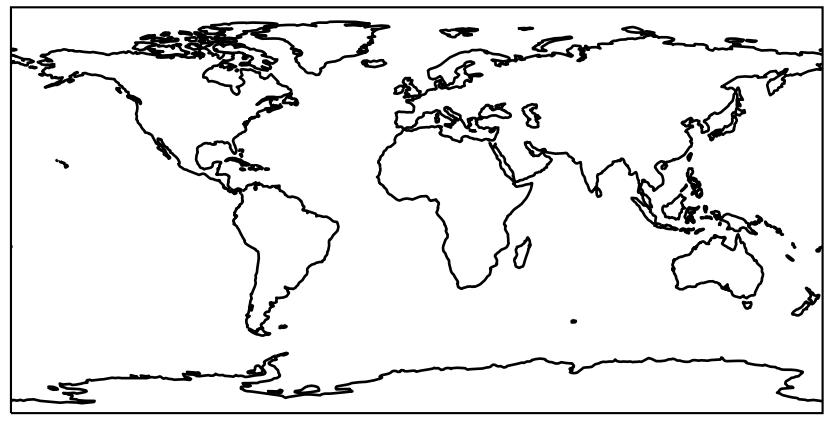
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Ratio
Dev/Ref, Dynamic Range



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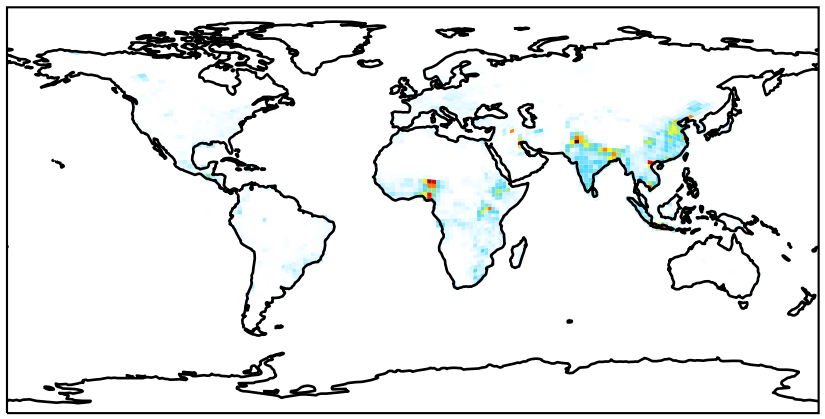
Ratio
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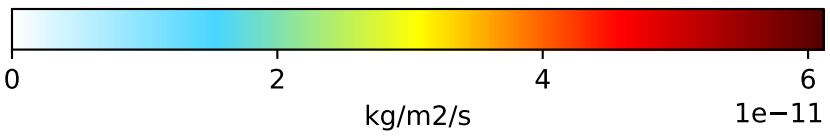


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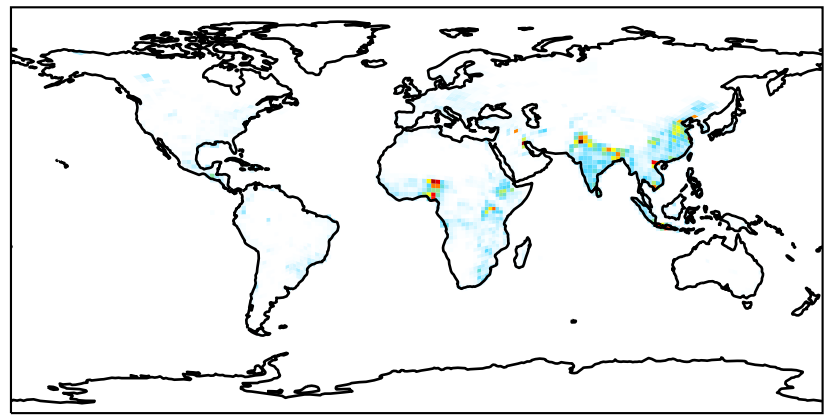
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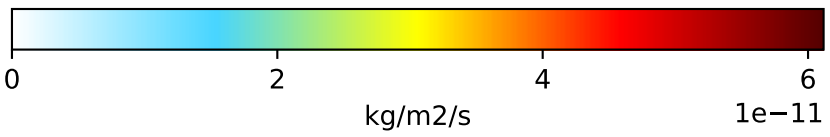
GCHP_13.3.0-rc.1 (Ref)
c48



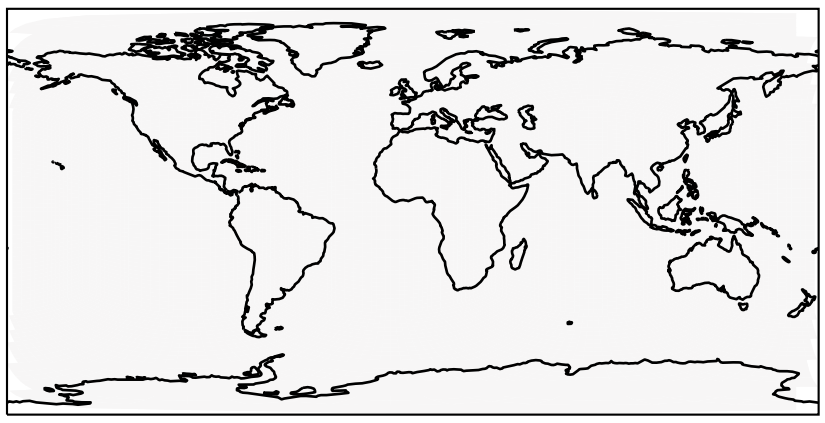


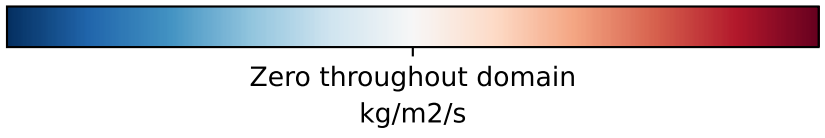
GCHP_13.4.0-rc.4 (Dev)
c48



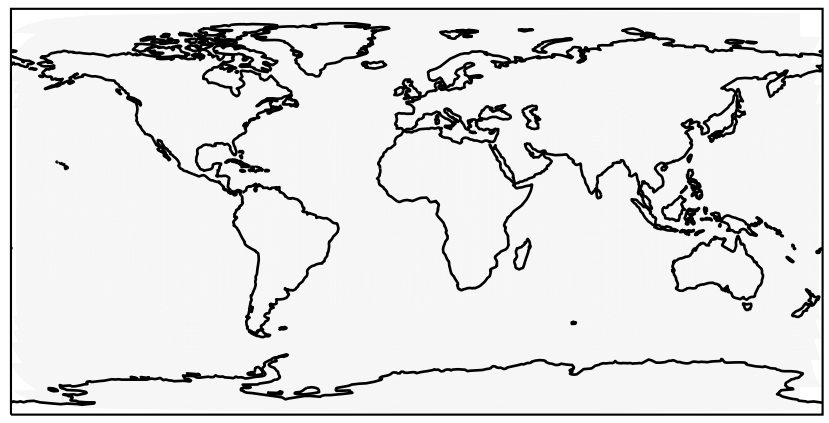


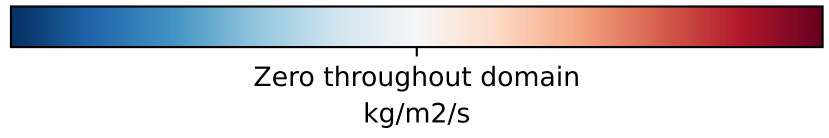
Difference
Dev - Ref, Dynamic Range



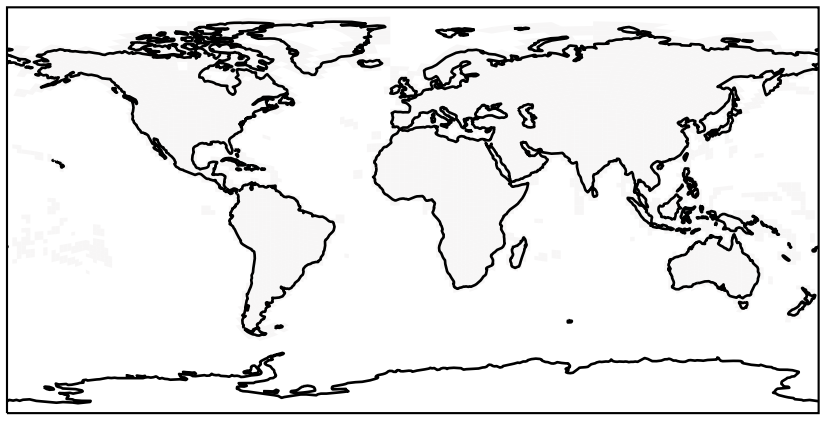


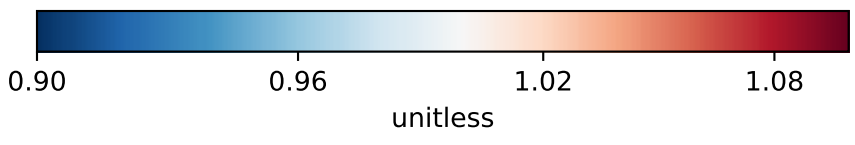
Difference
Dev - Ref, Restricted Range [5%,95%]



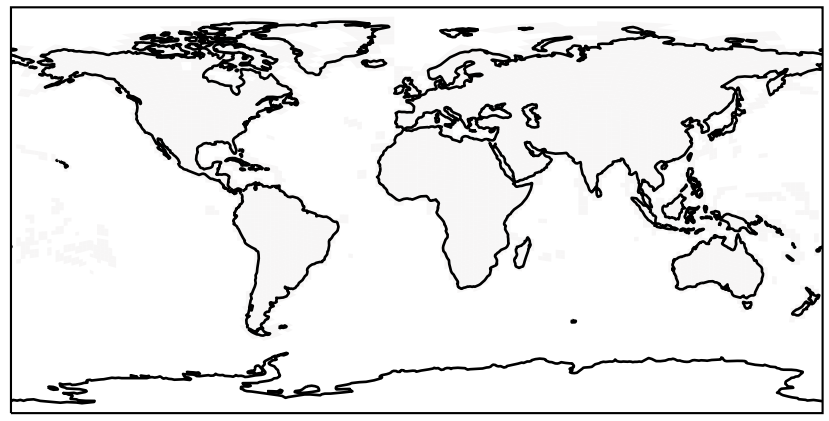


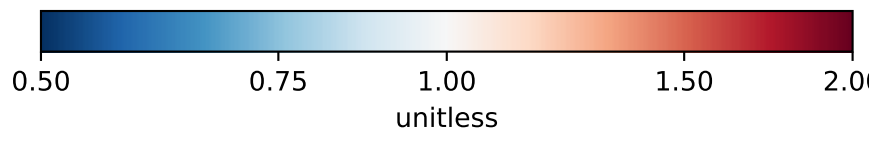
Ratio
Dev/Ref, Dynamic Range





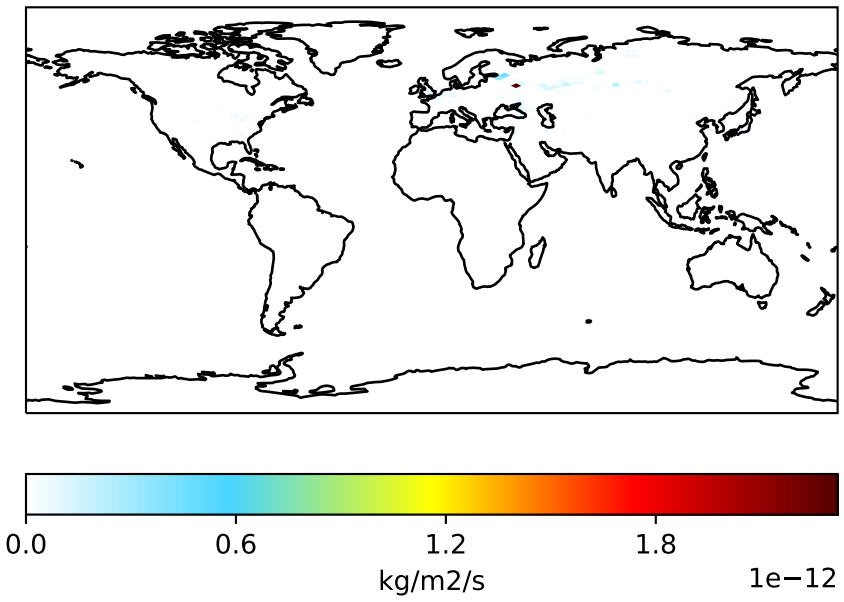
Ratio
Dev/Ref, Fixed Range



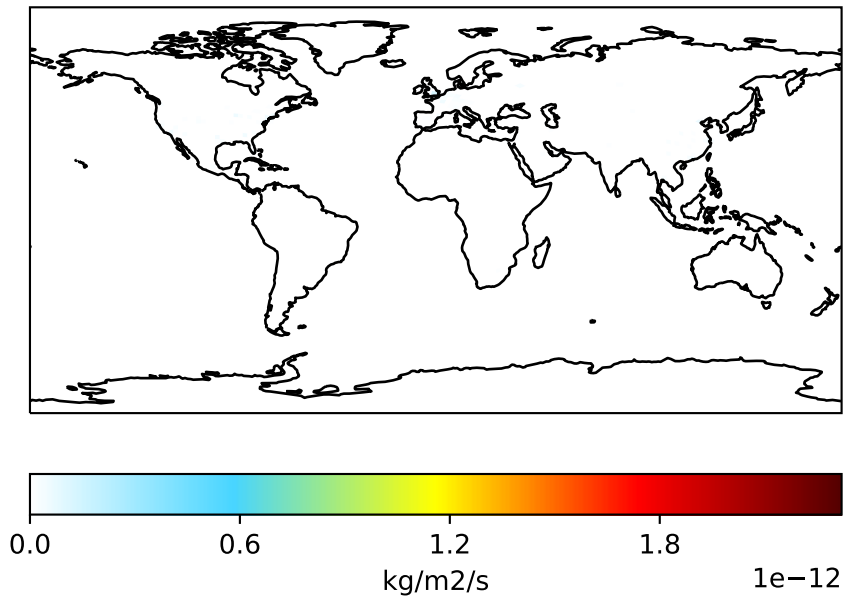


EmisRCHO_Aircraft

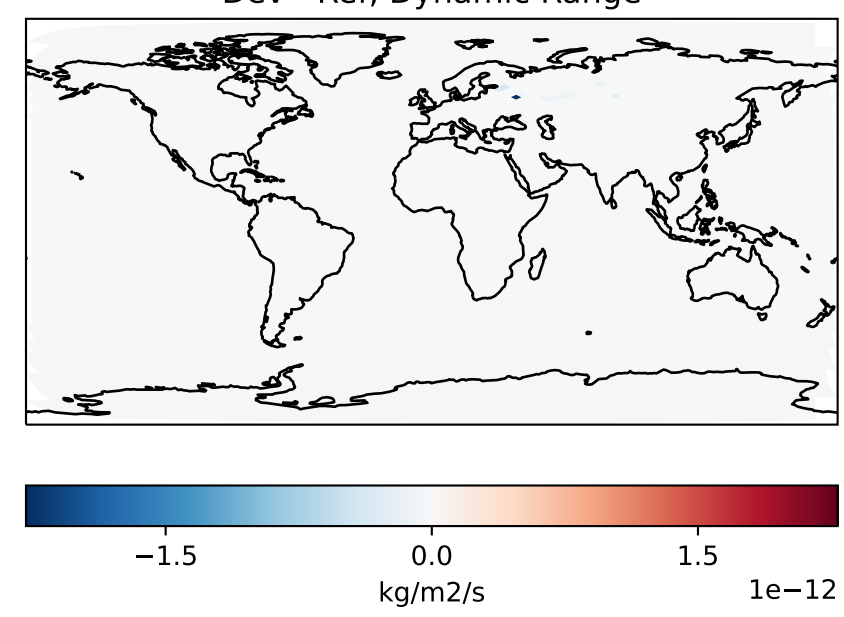
GCHP_13.3.0-rc.1 (Ref)
c48



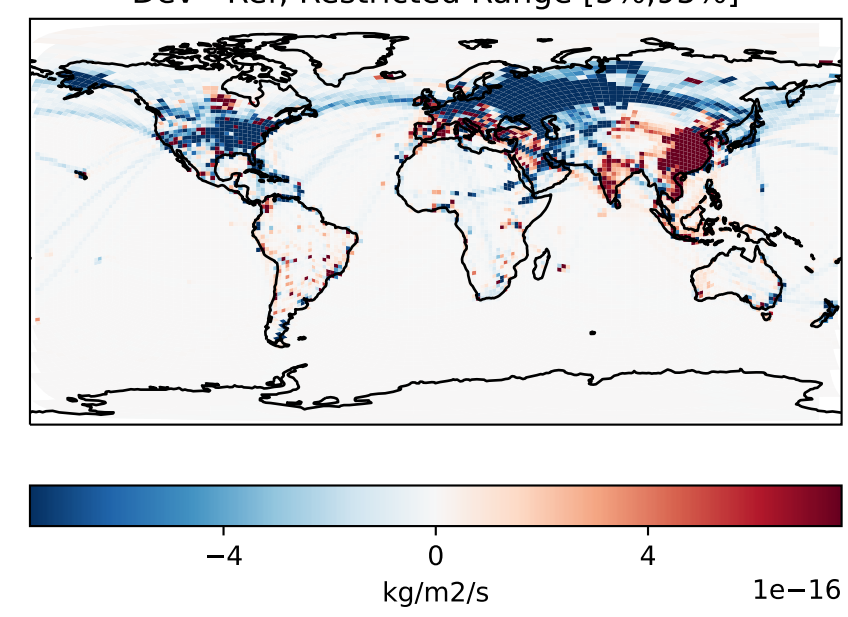
GCHP_13.4.0-rc.4 (Dev)
c48



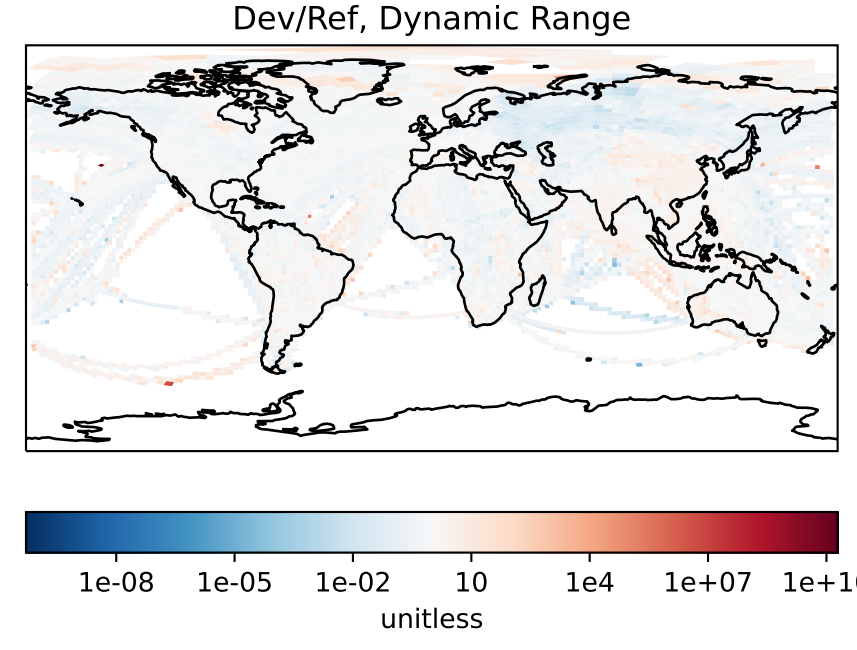
Difference
Dev - Ref, Dynamic Range



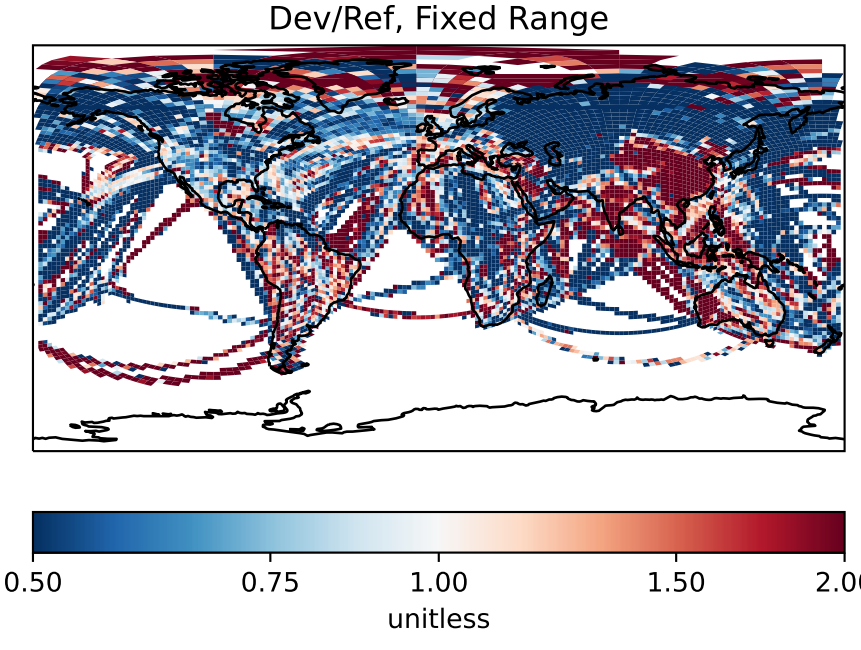
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

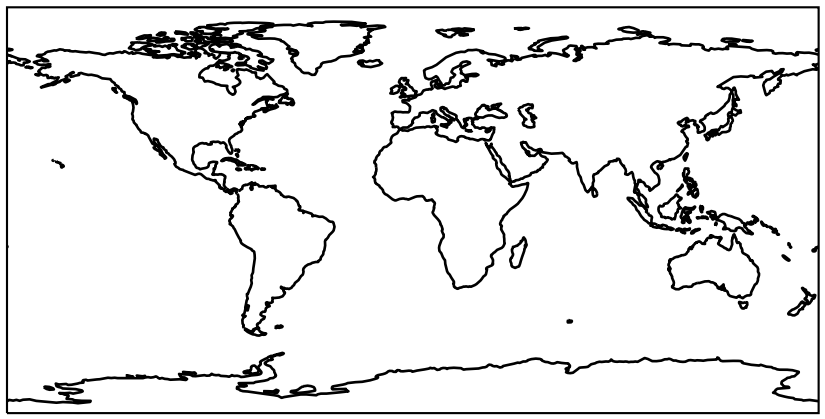


Ratio
Dev/Ref, Fixed Range



EmisRCHO_Anthro

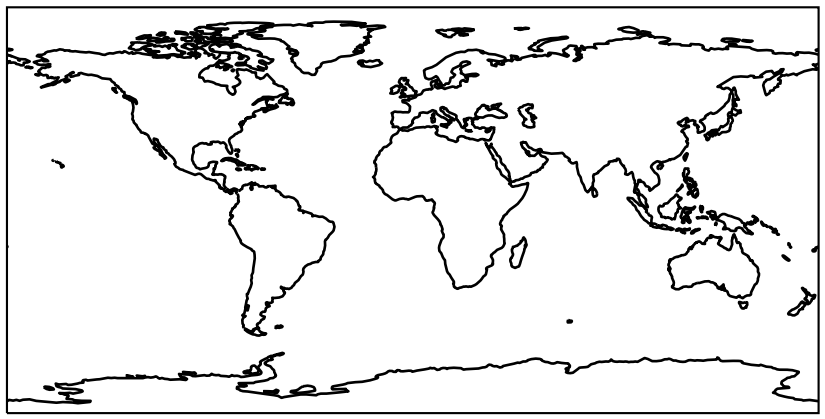
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

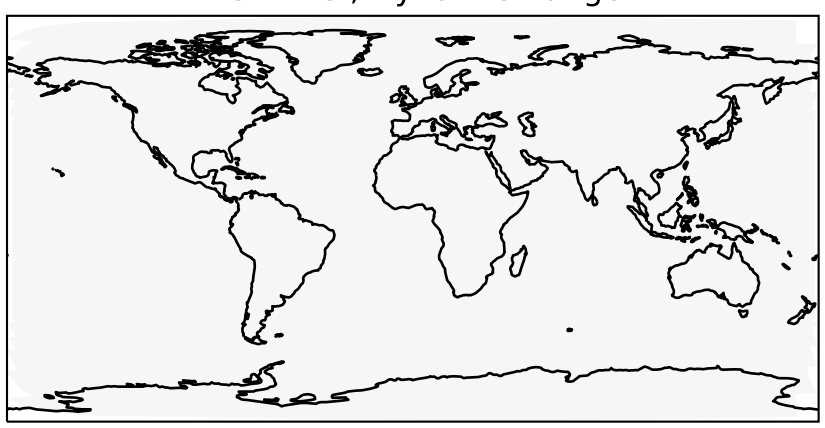
GCHP_13.4.0-rc.4 (Dev)
c48





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kg/m2/s

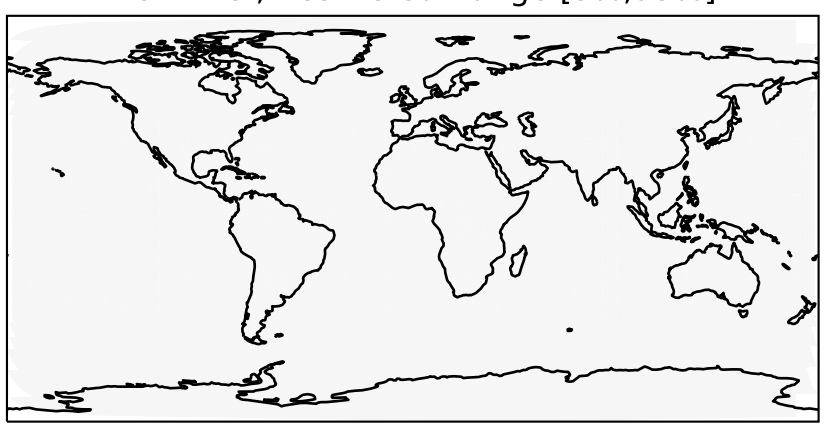
Difference
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kg/m2/s

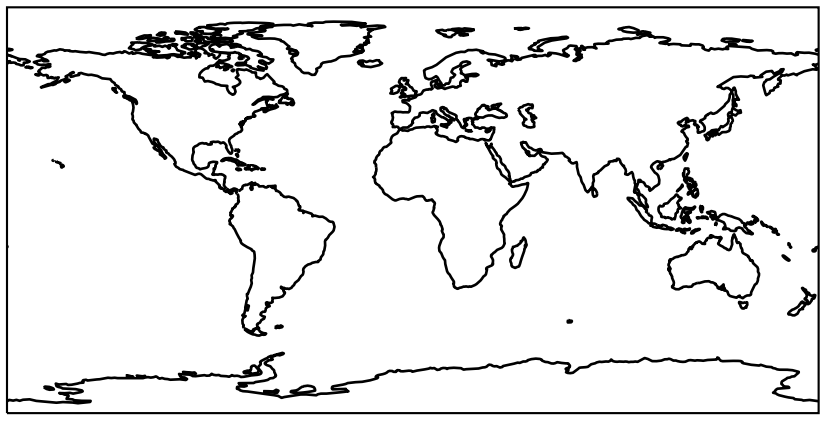
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

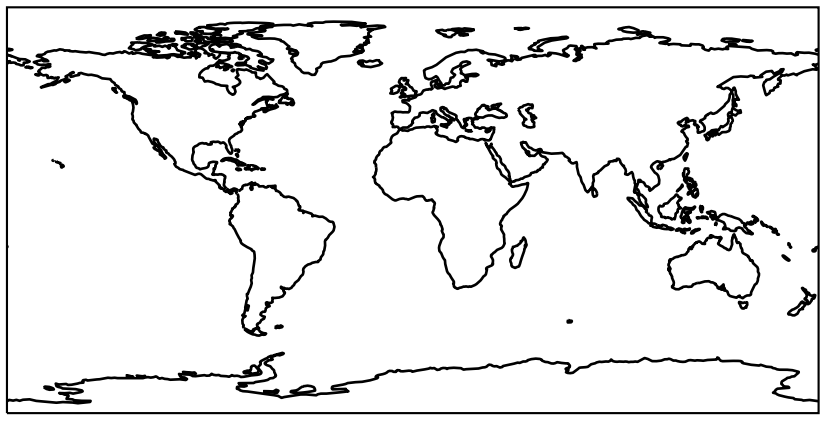
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

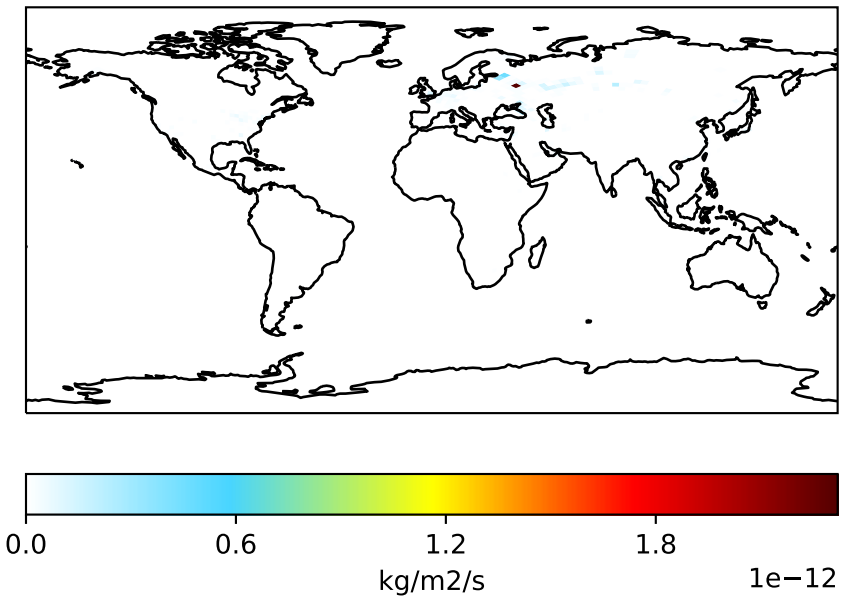




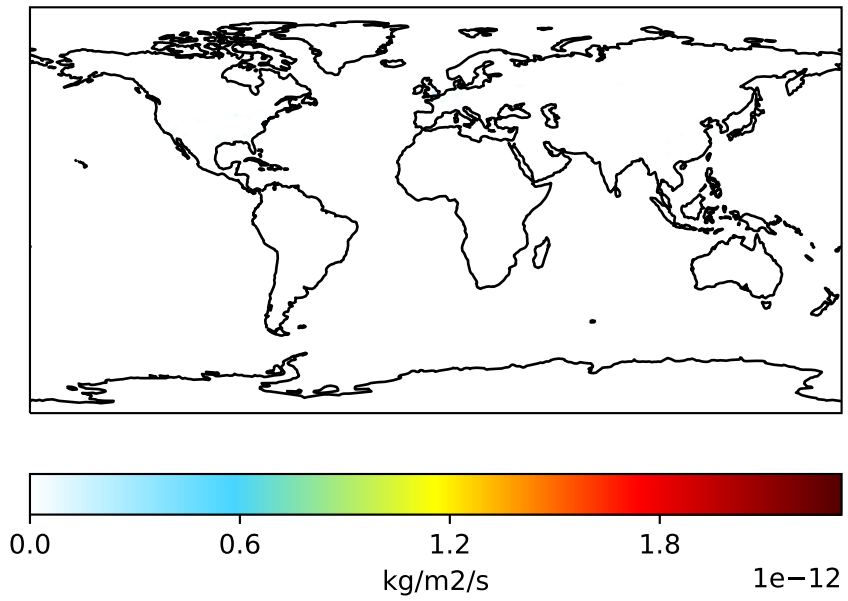
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EmisRCHO_Total

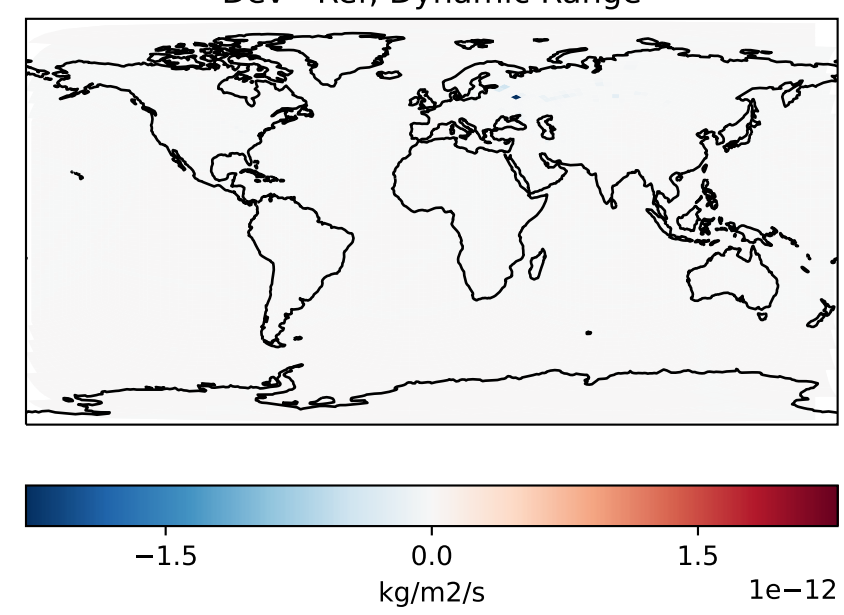
GCHP_13.3.0-rc.1 (Ref)
c48



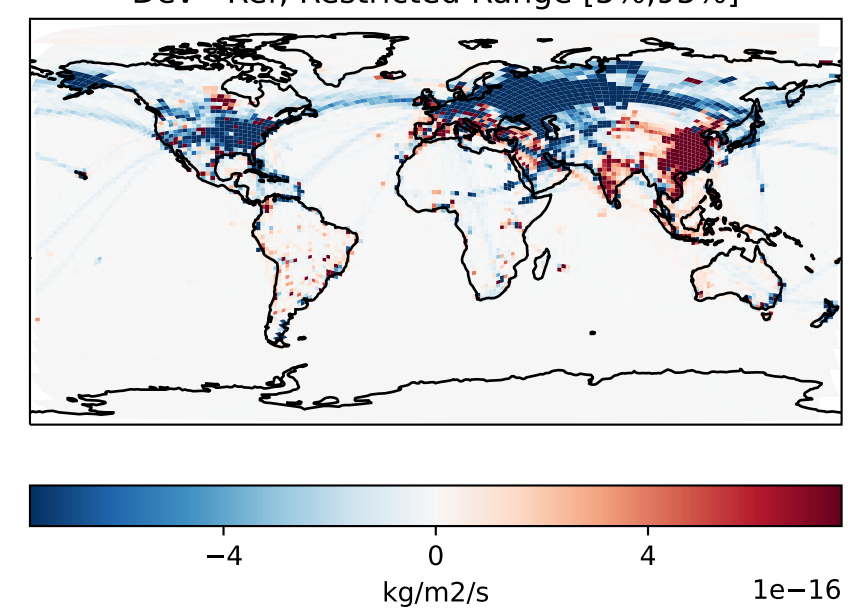
GCHP_13.4.0-rc.4 (Dev)
c48



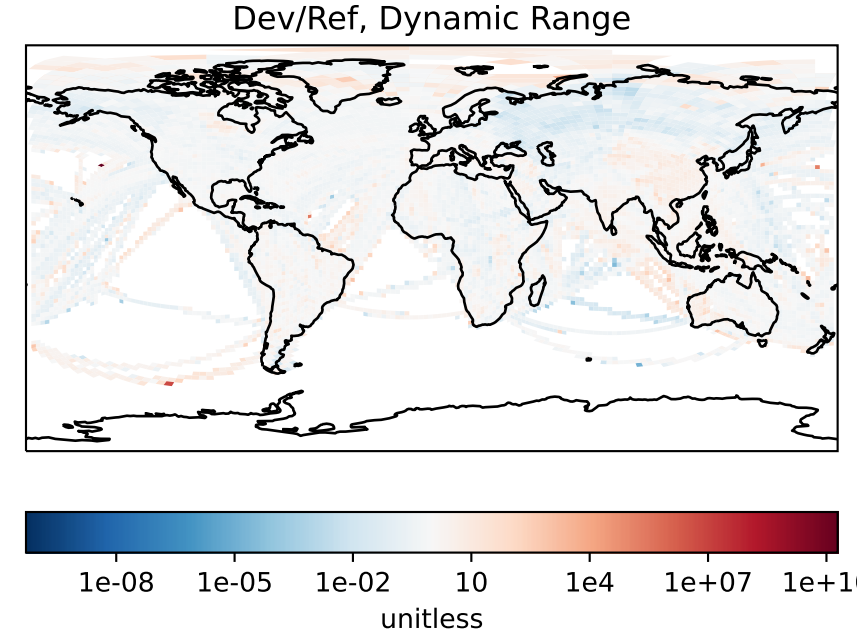
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

