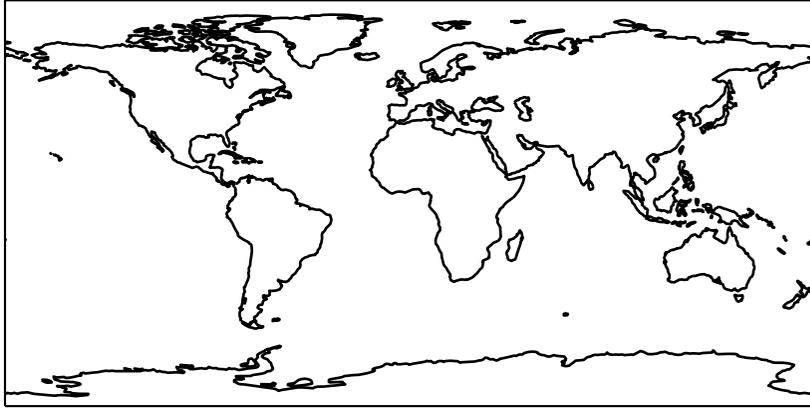


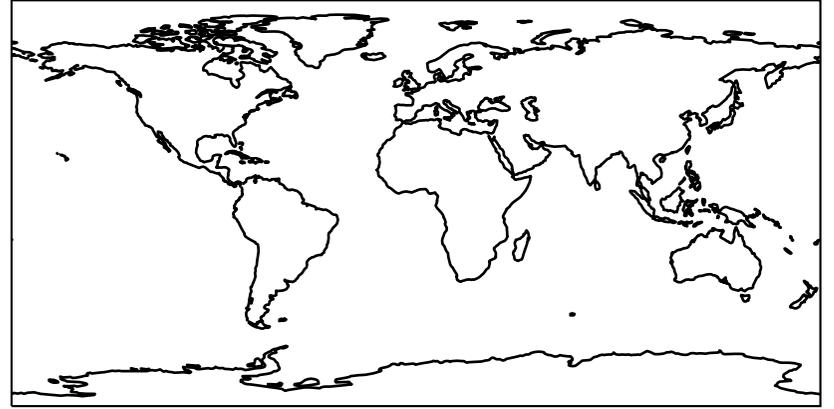
EmisALD2_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



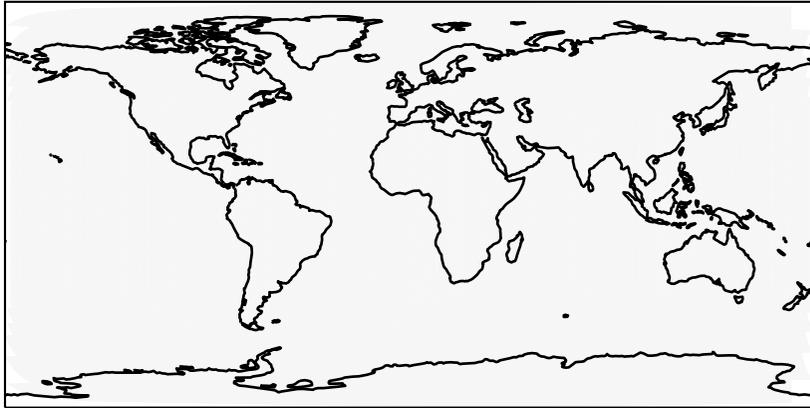
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



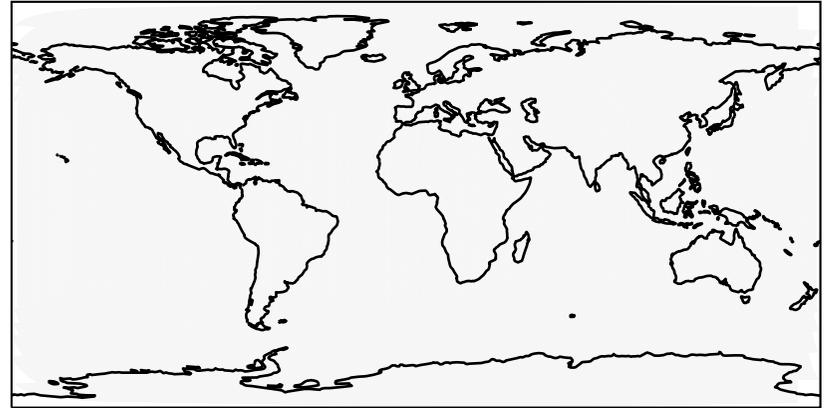
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



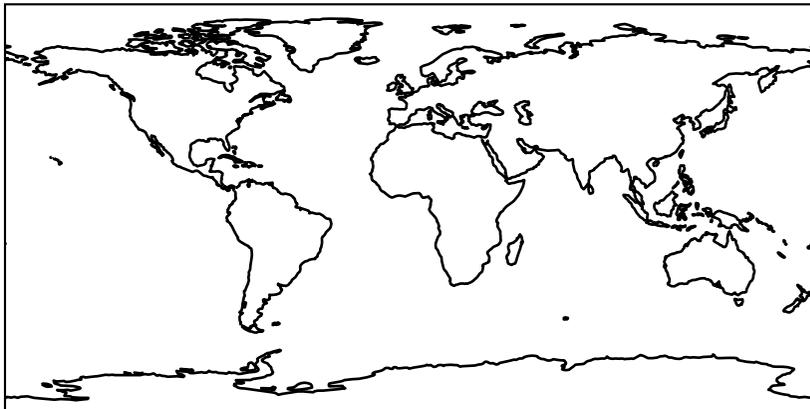
Zero throughout domain
kg/m2/s

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



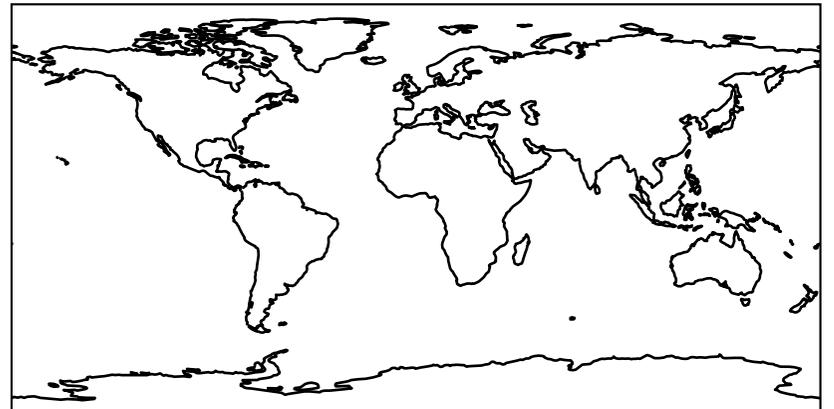
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

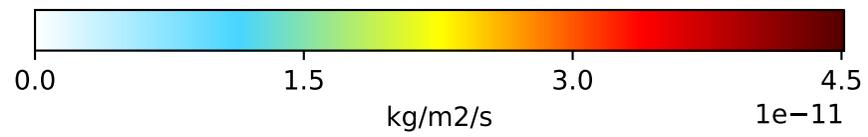
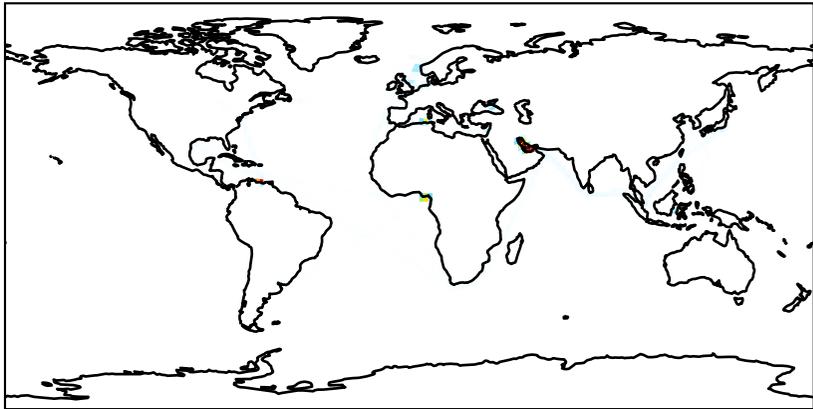
Ratio
Dev/Ref, Fixed Range



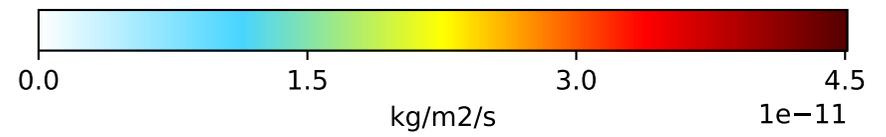
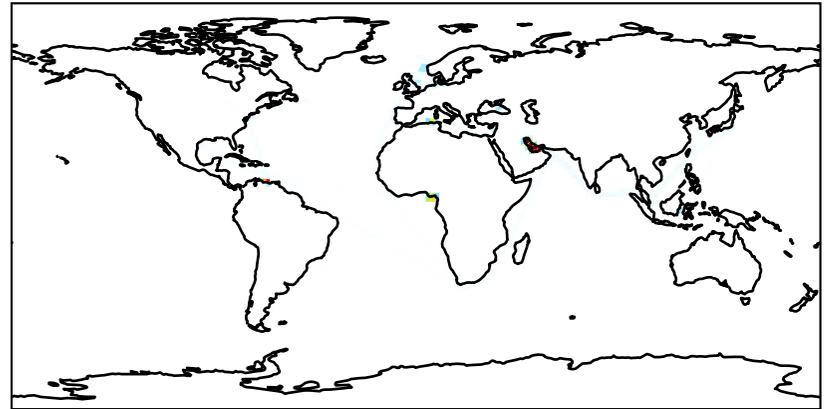
Undefined throughout domain
unitless

EmisALK4_Ship (Apr2019)

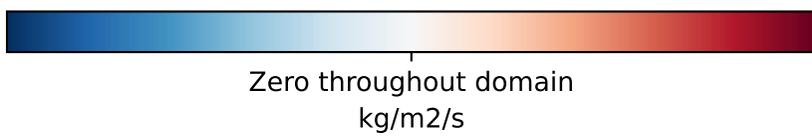
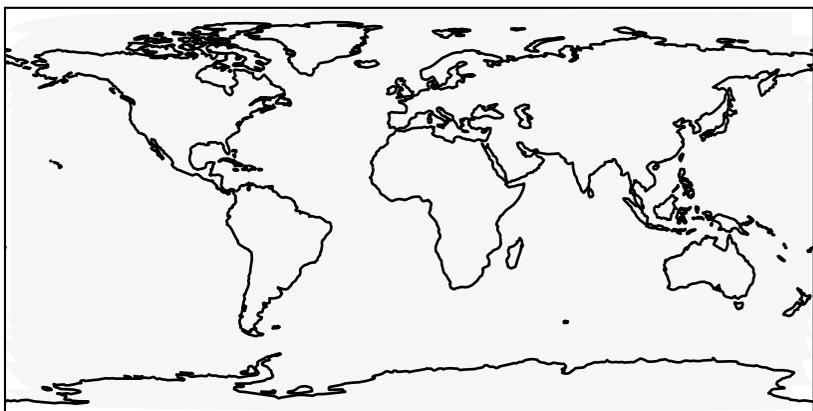
GCHP_13.2.0 (Ref)
c48



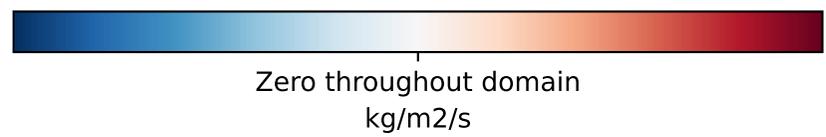
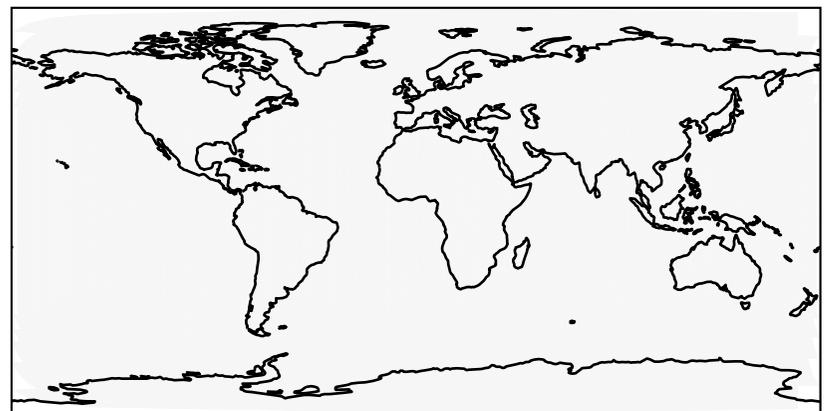
GCHP_13.2.0-LuoWetdep (Dev)
c48



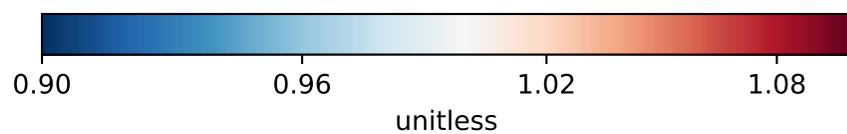
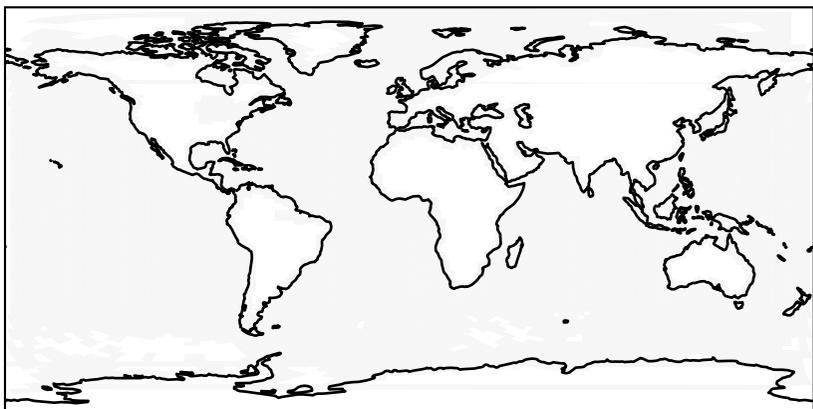
Difference
Dev - Ref, Dynamic Range



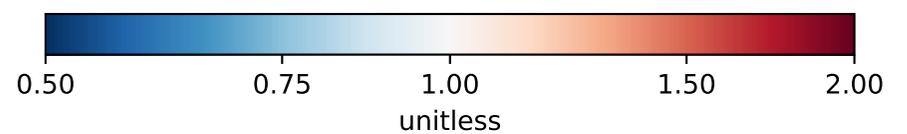
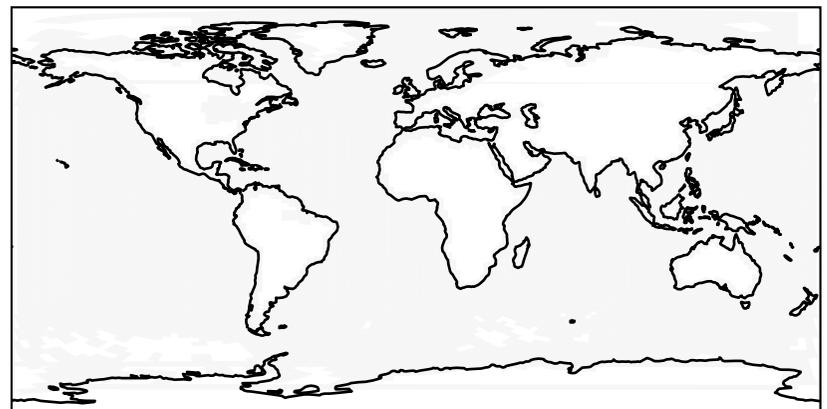
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

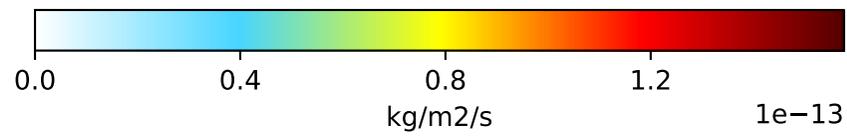
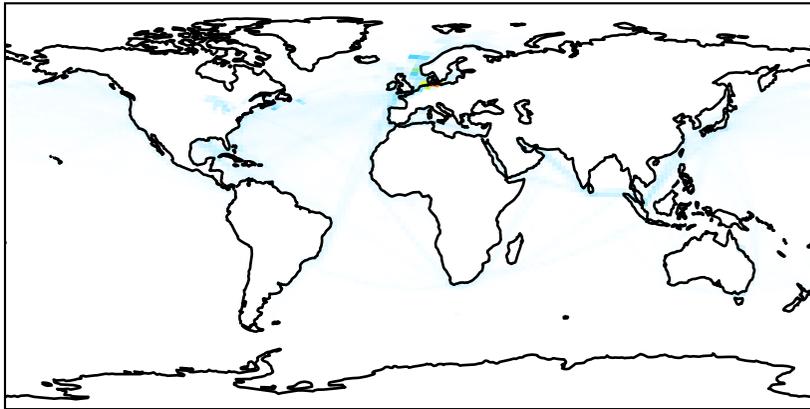


Ratio
Dev/Ref, Fixed Range

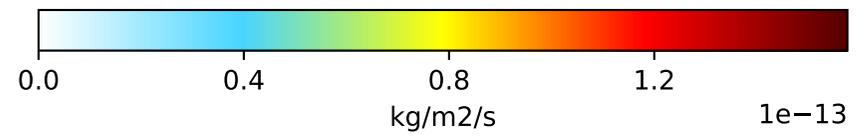
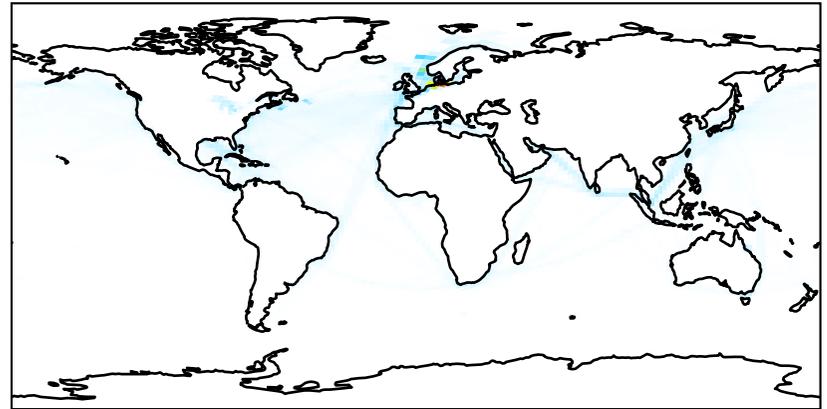


EmisBCPI_Ship (Apr2019)

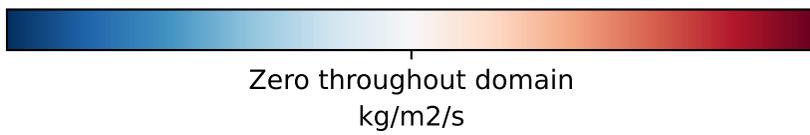
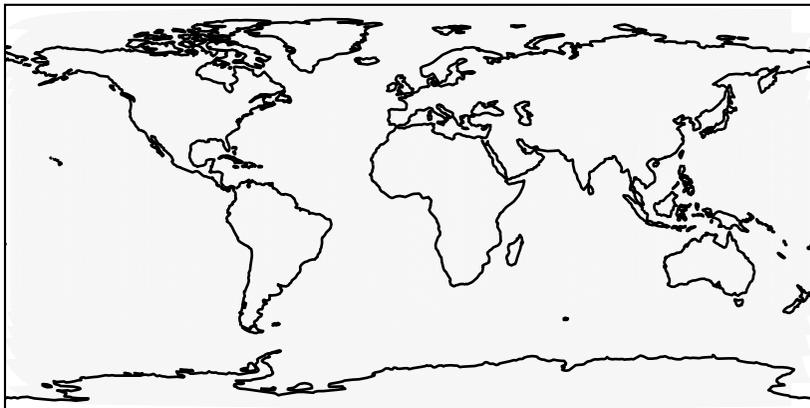
GCHP_13.2.0 (Ref)
c48



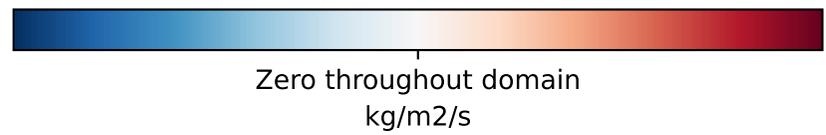
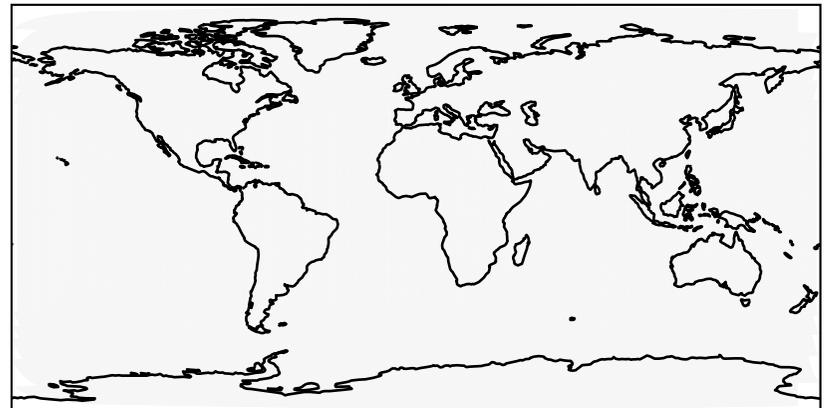
GCHP_13.2.0-LuoWetdep (Dev)
c48



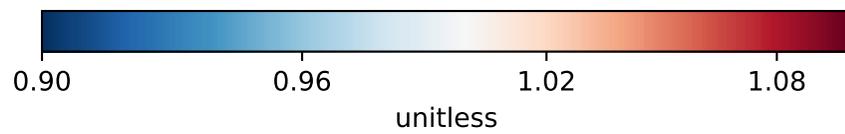
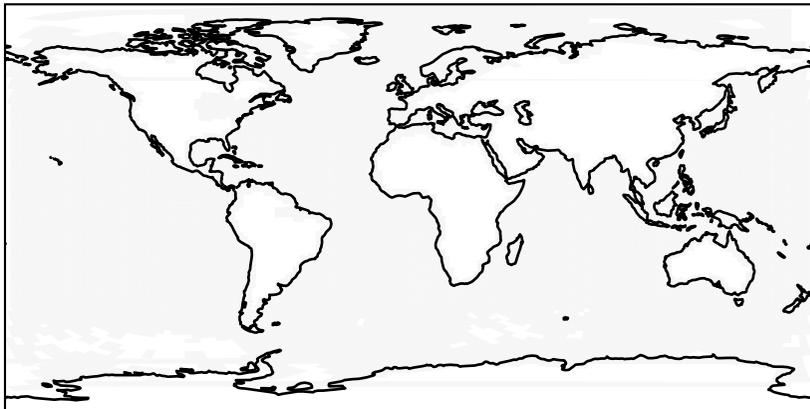
Difference
Dev - Ref, Dynamic Range



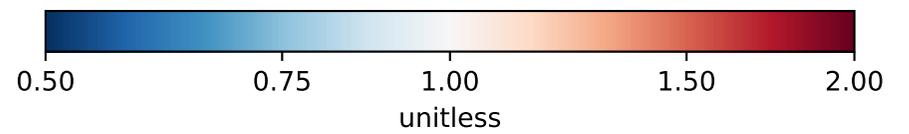
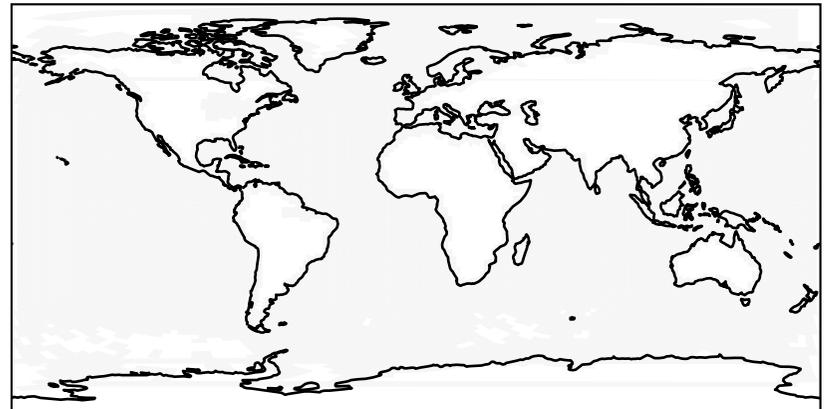
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

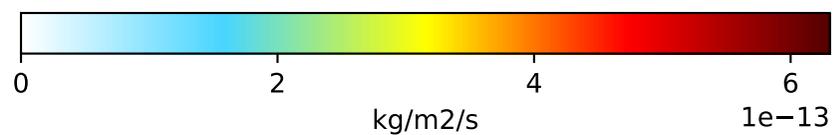
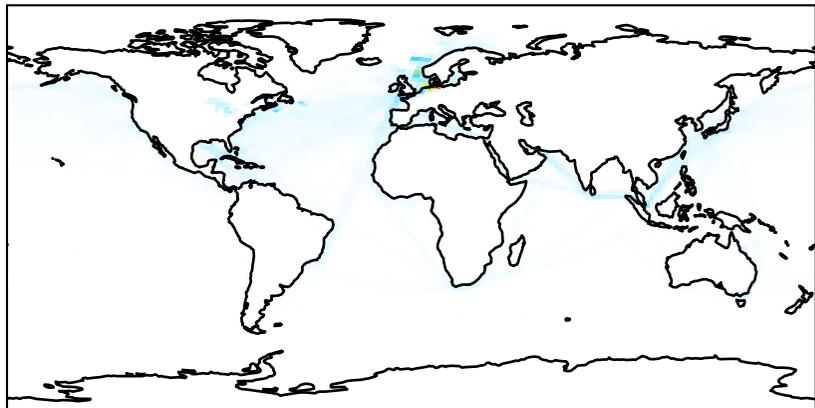


Ratio
Dev/Ref, Fixed Range

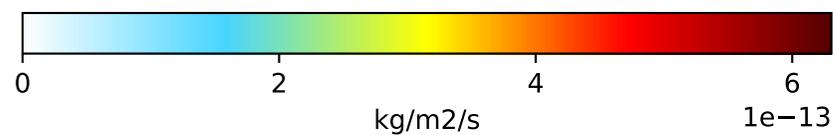
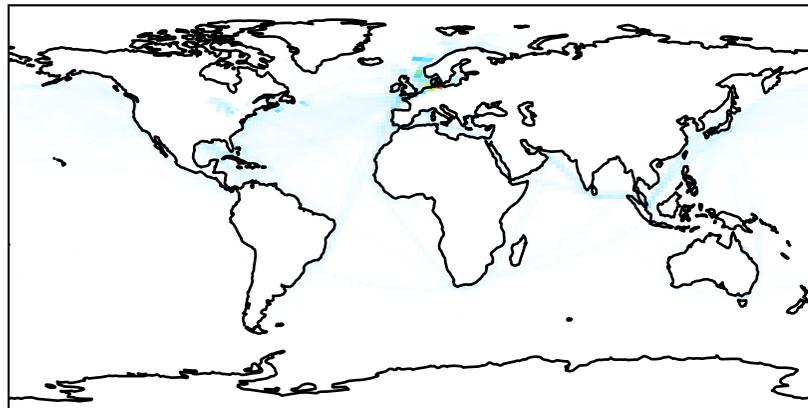


EmisBCPO_Ship (Apr2019)

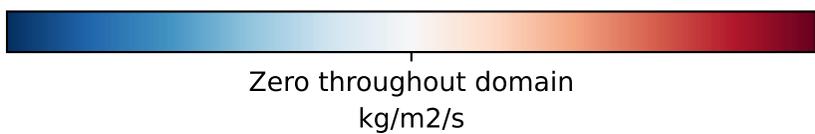
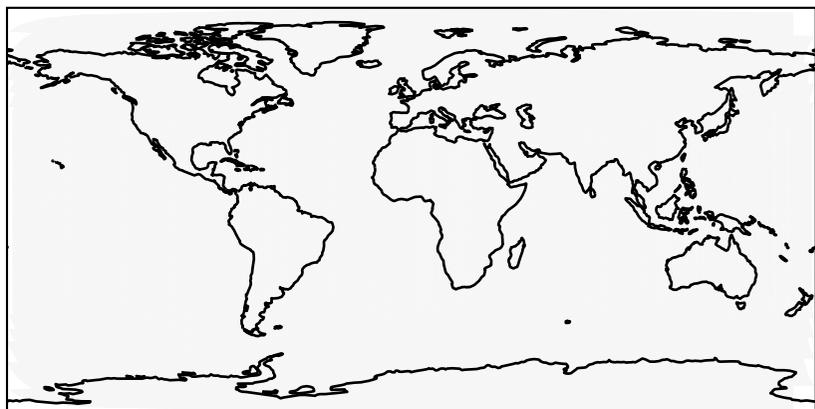
GCHP_13.2.0 (Ref)
c48



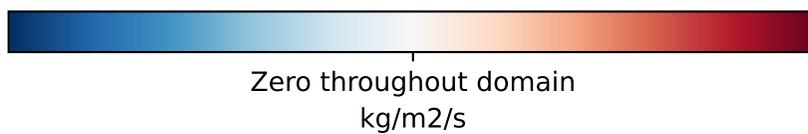
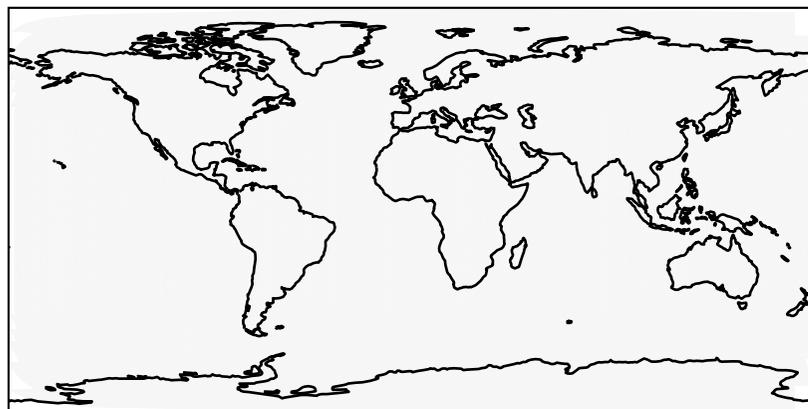
GCHP_13.2.0-LuoWetdep (Dev)
c48



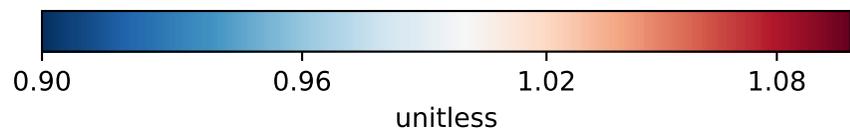
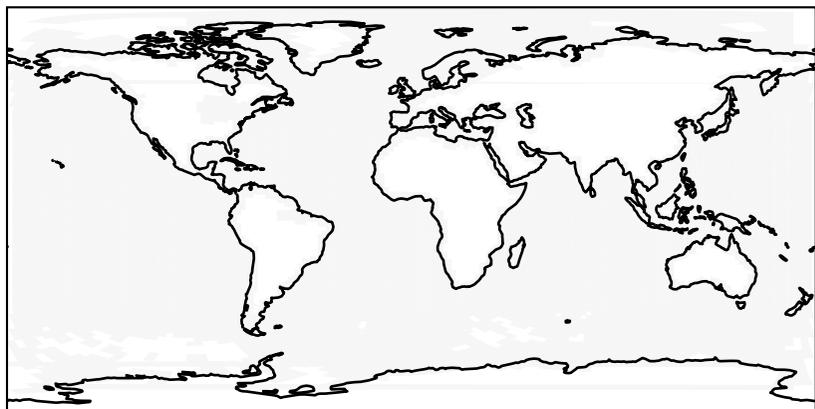
Difference
Dev - Ref, Dynamic Range



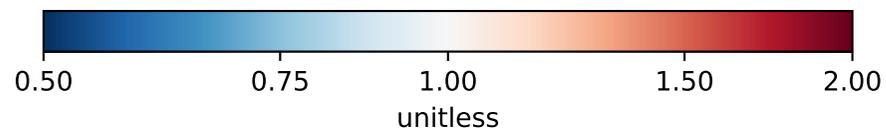
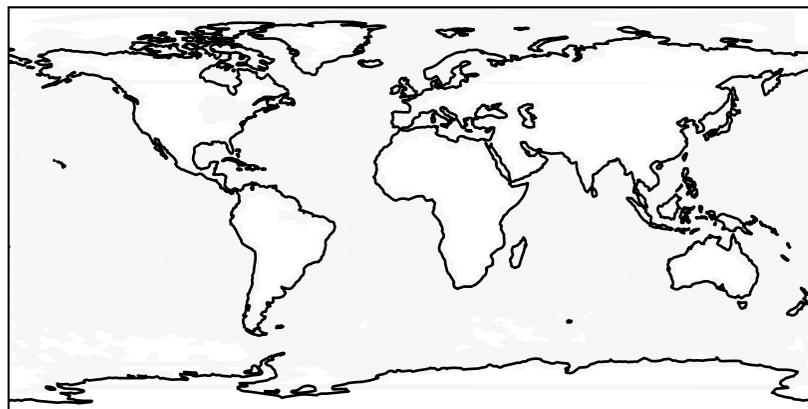
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

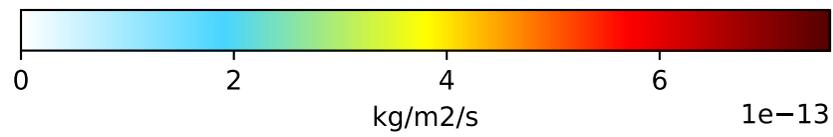
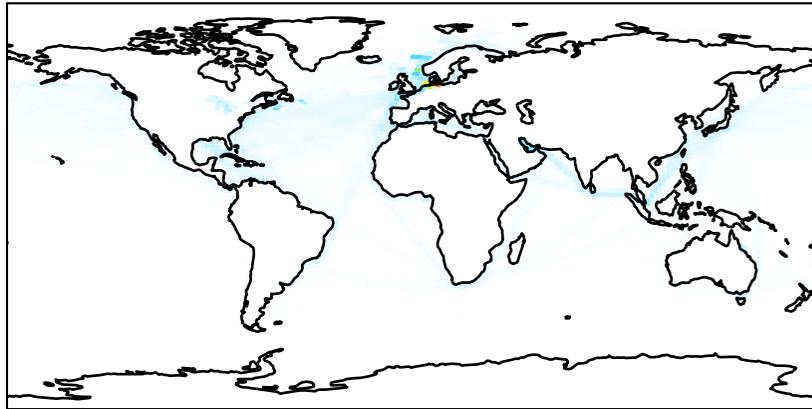


Ratio
Dev/Ref, Fixed Range

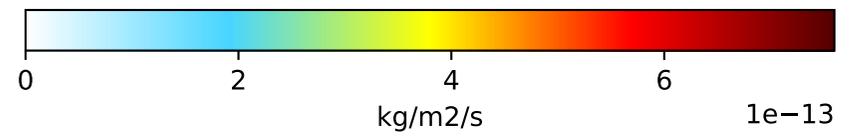
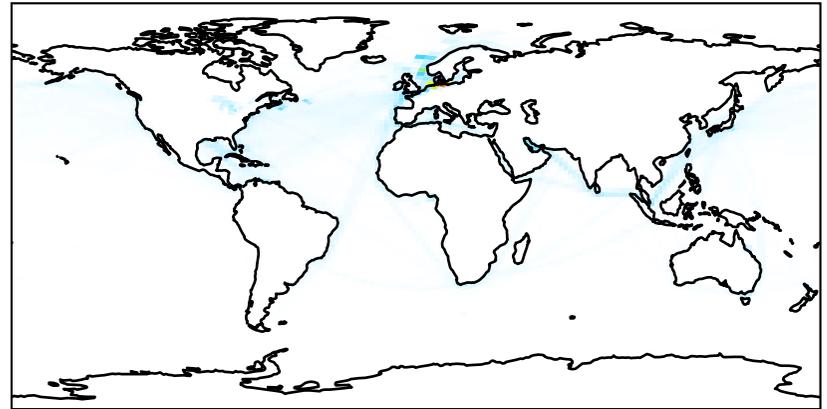


EmisBENZ_Ship (Apr2019)

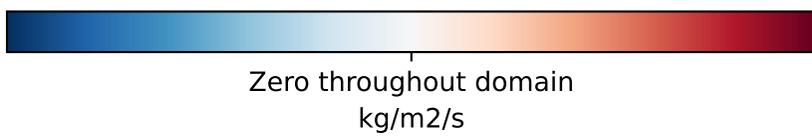
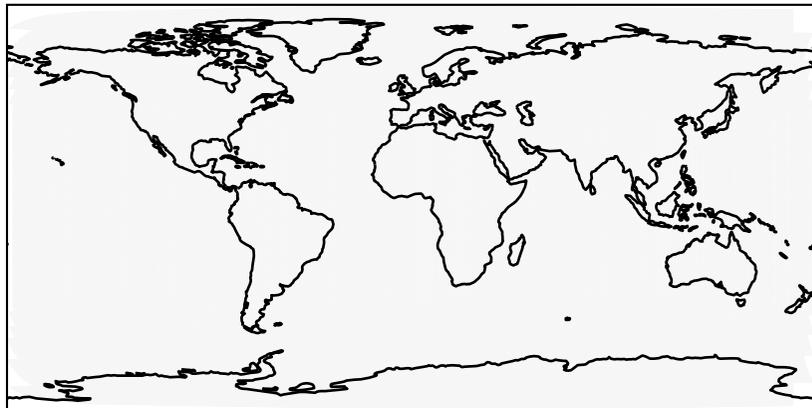
GCHP_13.2.0 (Ref)
c48



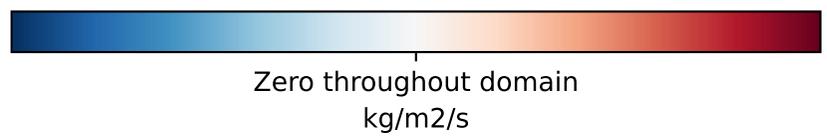
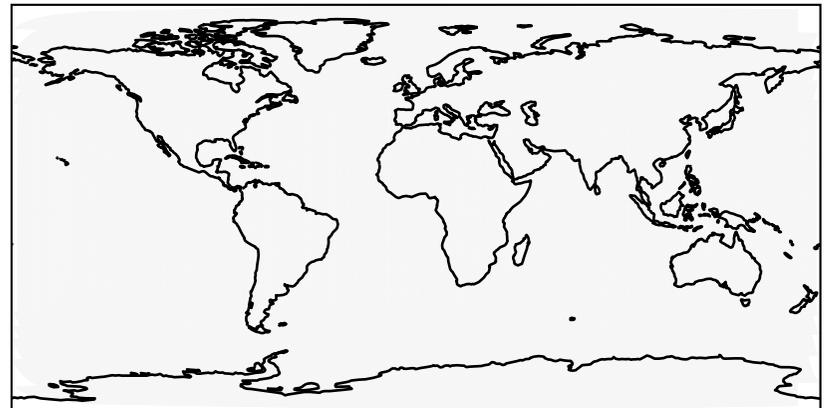
GCHP_13.2.0-LuoWetdep (Dev)
c48



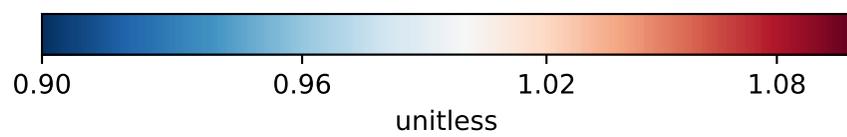
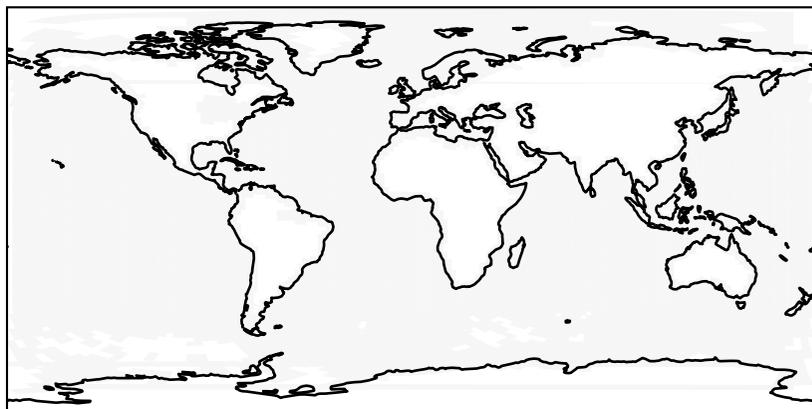
Difference
Dev - Ref, Dynamic Range



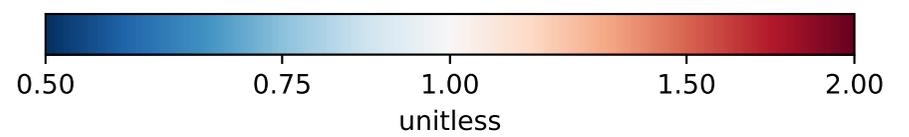
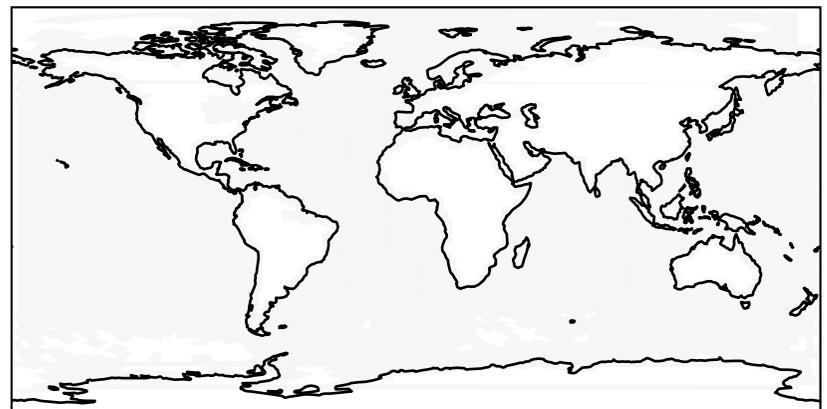
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

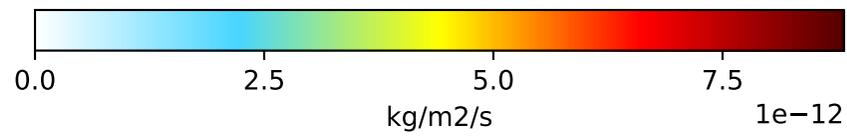
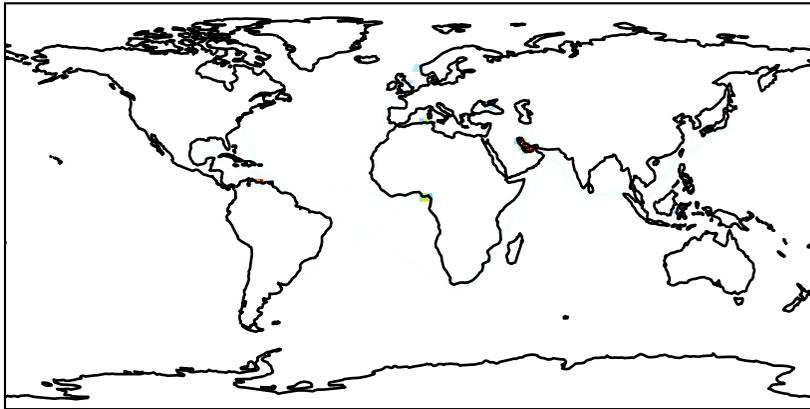


Ratio
Dev/Ref, Fixed Range

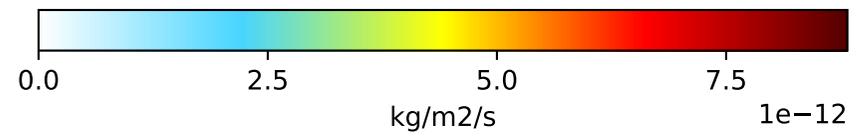
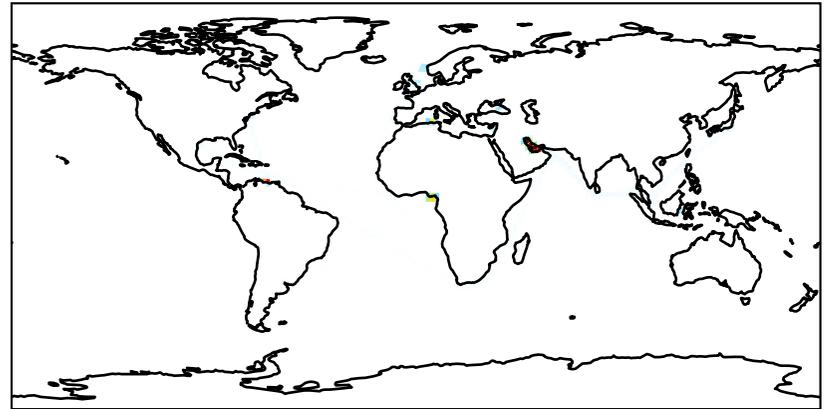


EmisC2H6_Ship (Apr2019)

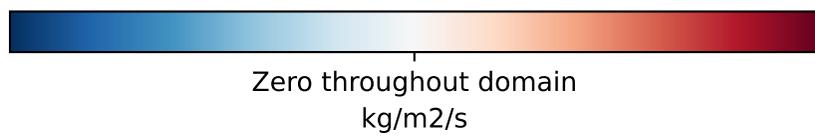
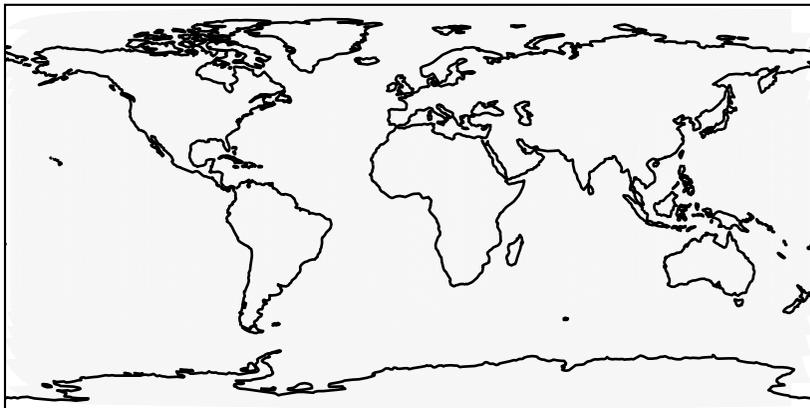
GCHP_13.2.0 (Ref)
c48



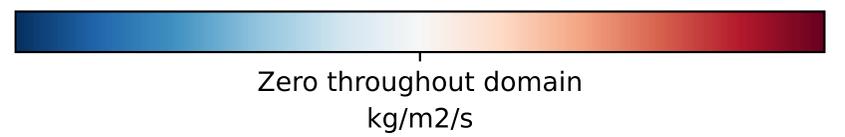
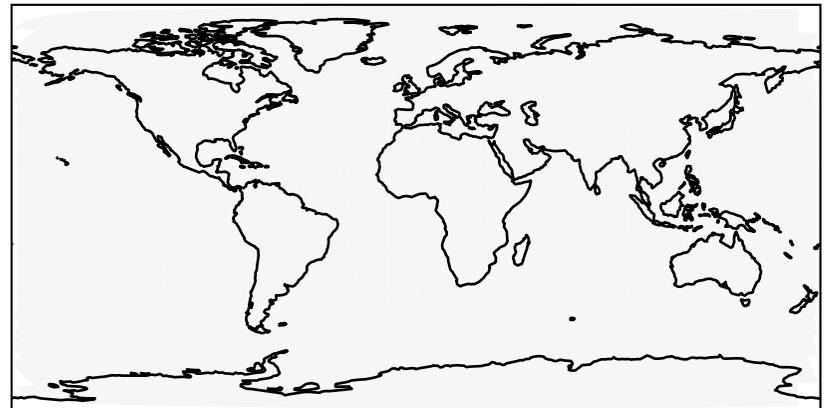
GCHP_13.2.0-LuoWetdep (Dev)
c48



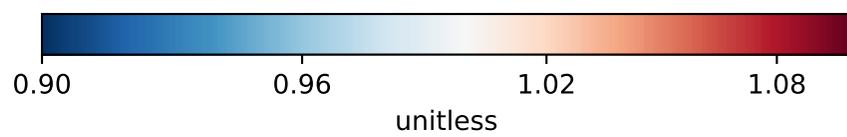
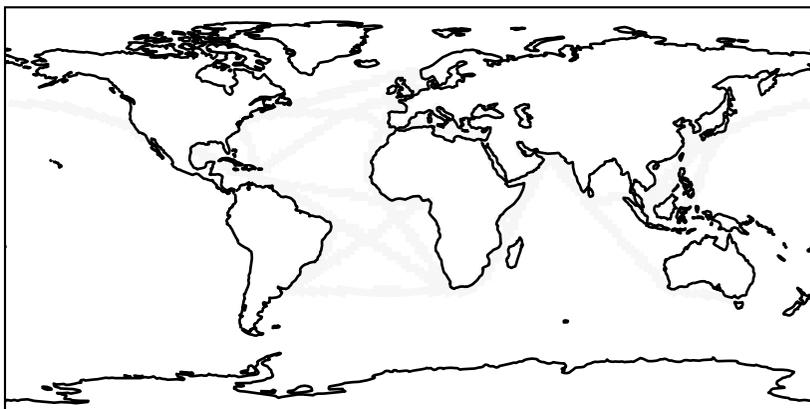
Difference
Dev - Ref, Dynamic Range



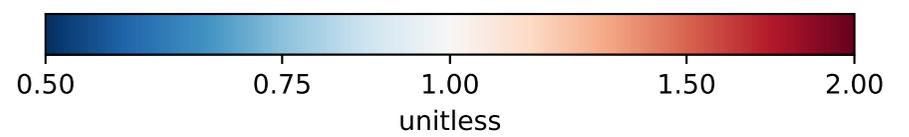
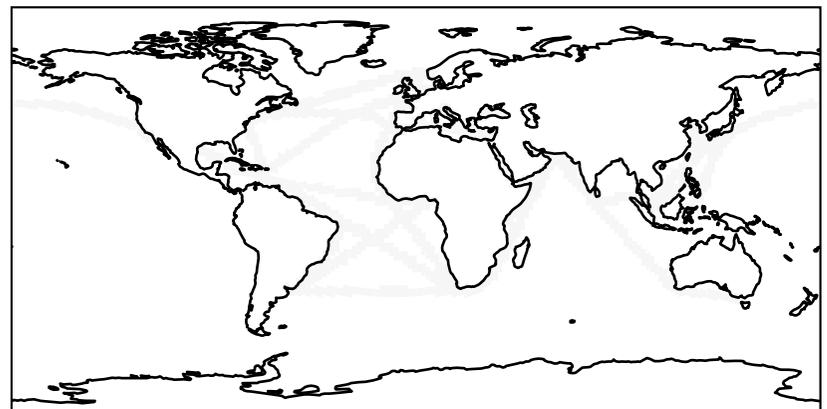
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

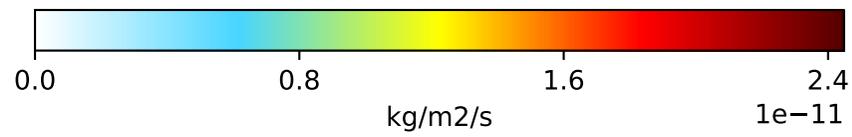
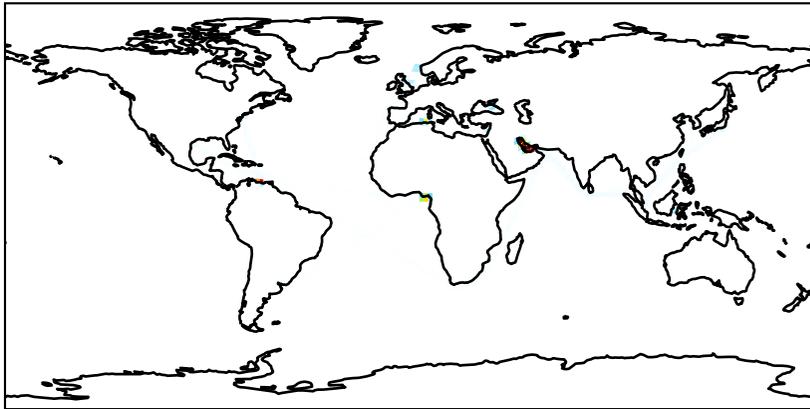


Ratio
Dev/Ref, Fixed Range

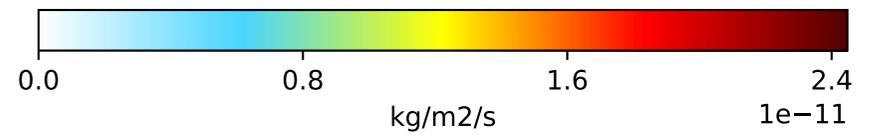
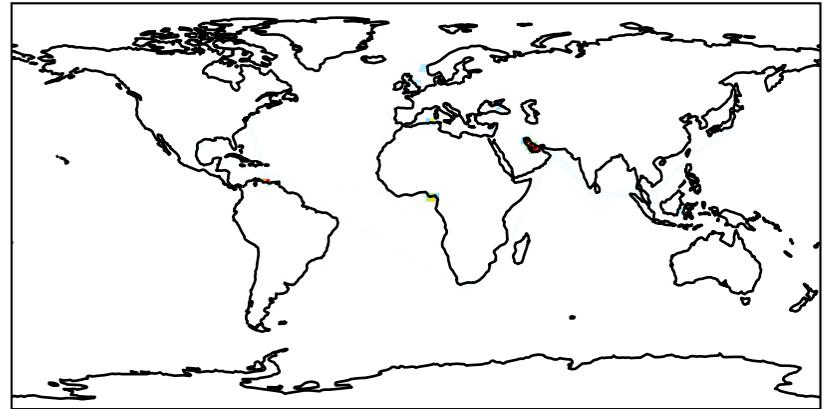


EmisC3H8_Ship (Apr2019)

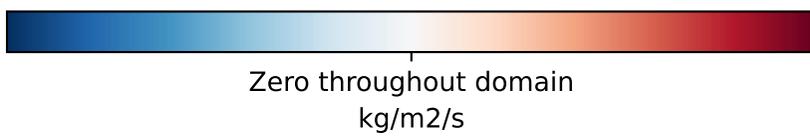
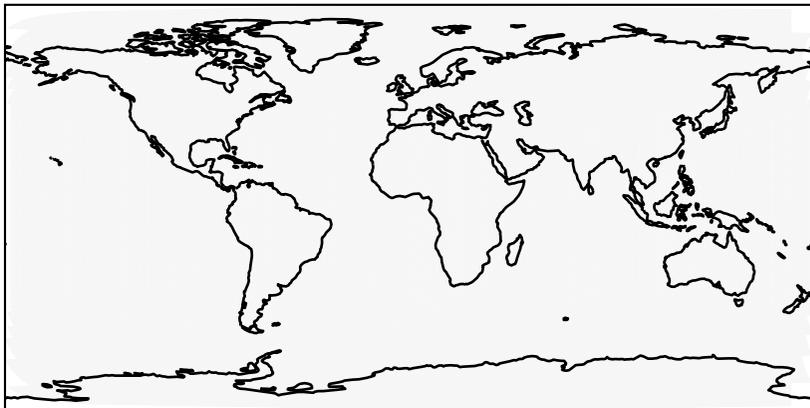
GCHP_13.2.0 (Ref)
c48



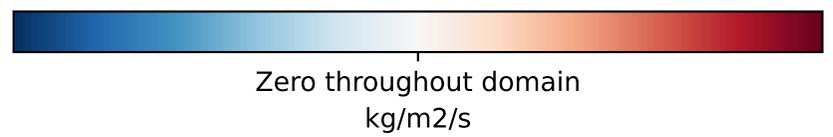
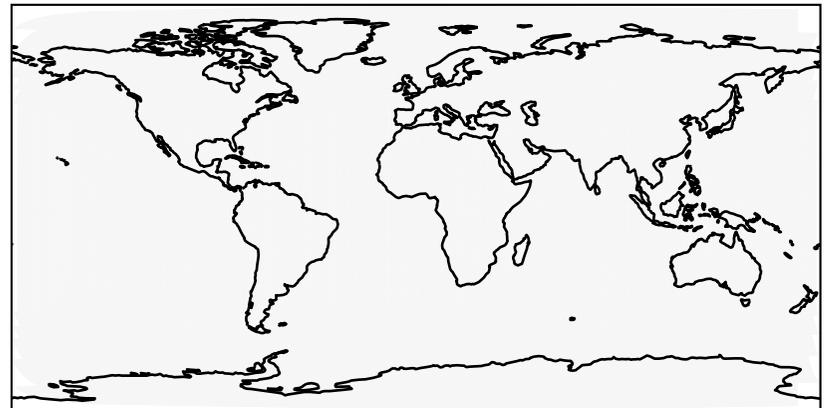
GCHP_13.2.0-LuoWetdep (Dev)
c48



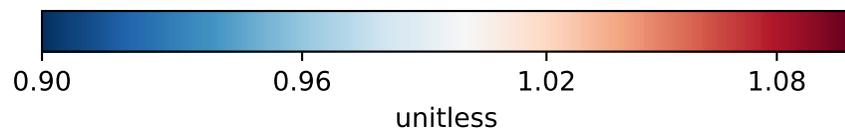
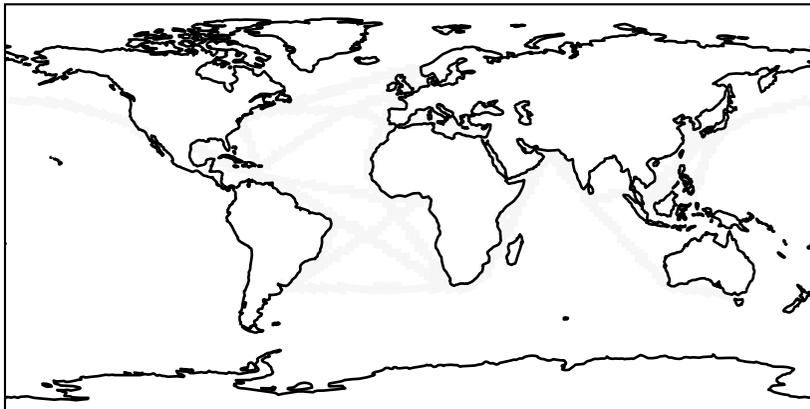
Difference
Dev - Ref, Dynamic Range



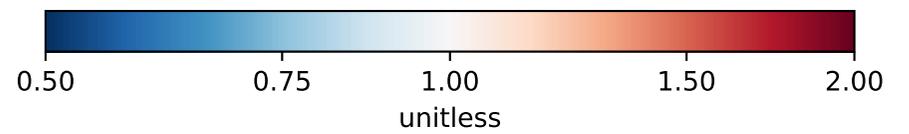
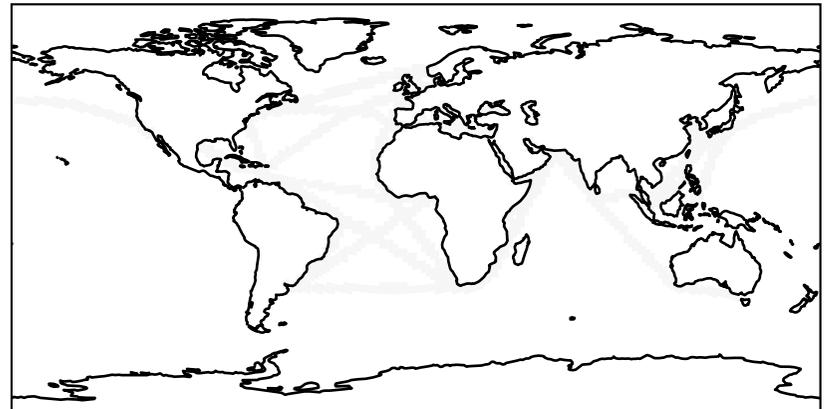
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

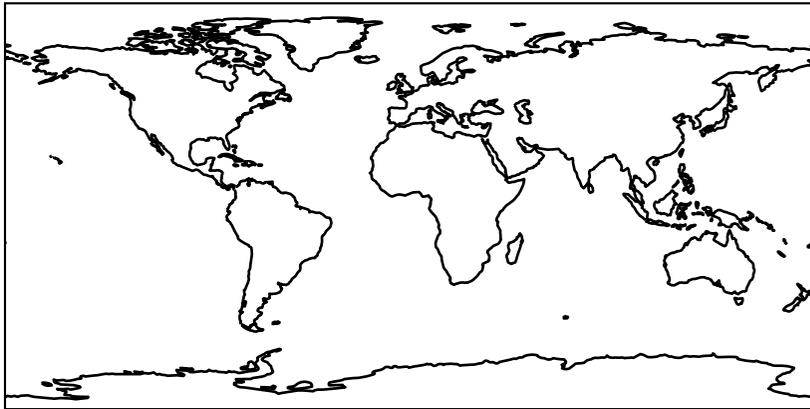


Ratio
Dev/Ref, Fixed Range



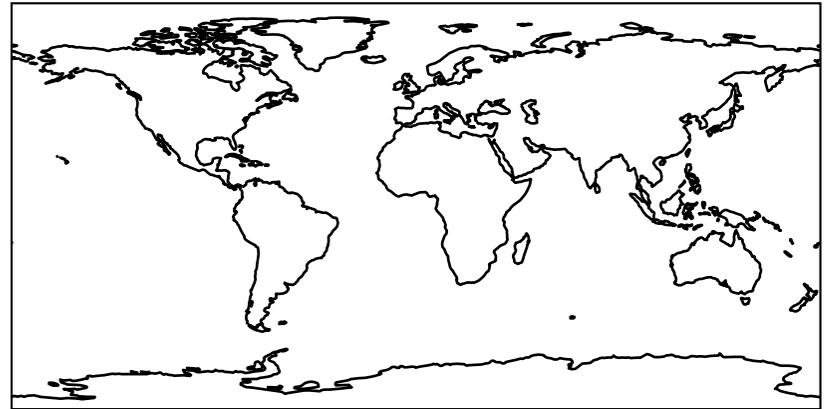
EmisCH2O_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



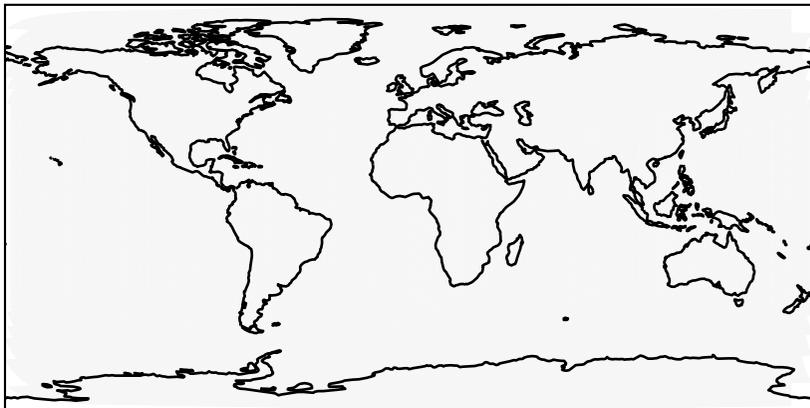
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



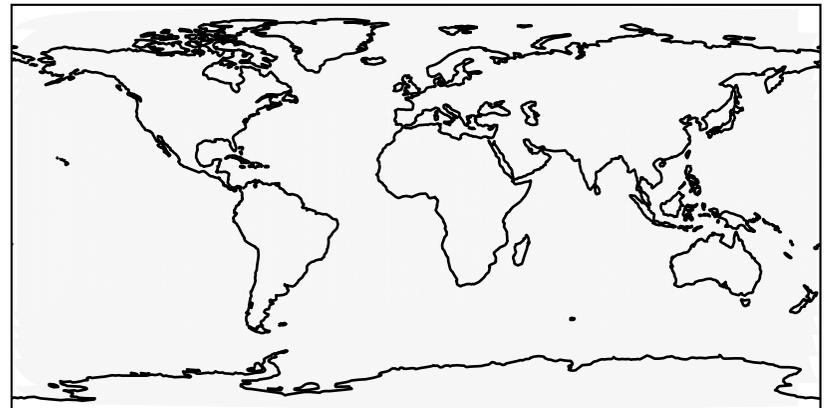
Zero throughout domain
kg/m2/s

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



Undefined throughout domain
unitless

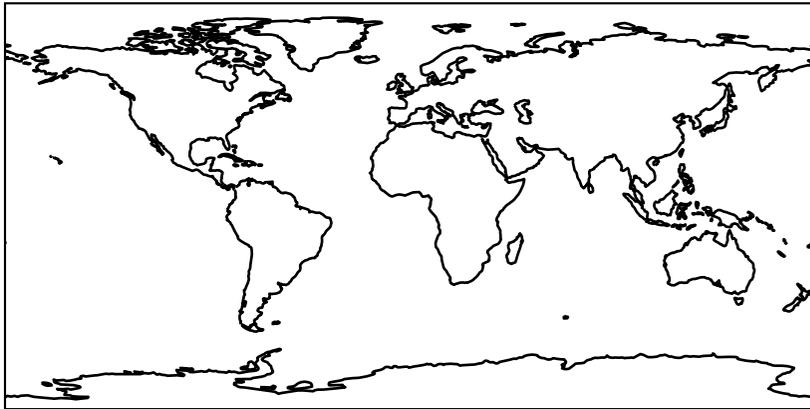
Ratio
Dev/Ref, Fixed Range



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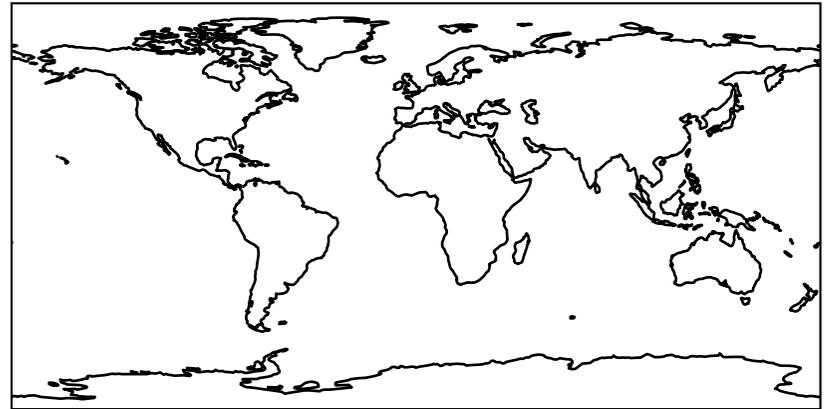
EmisCO2_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



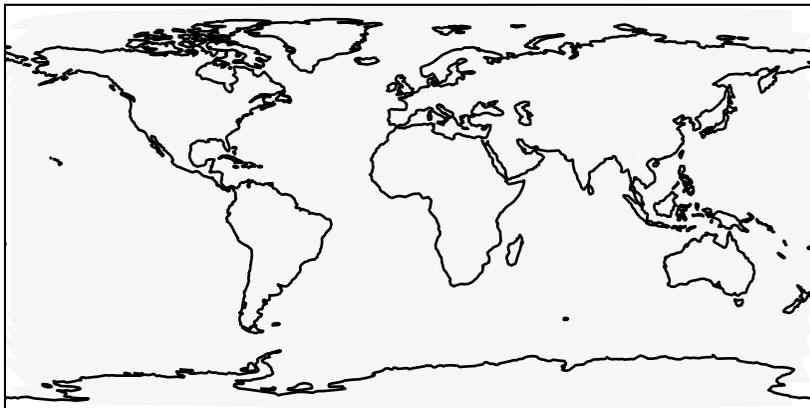
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kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



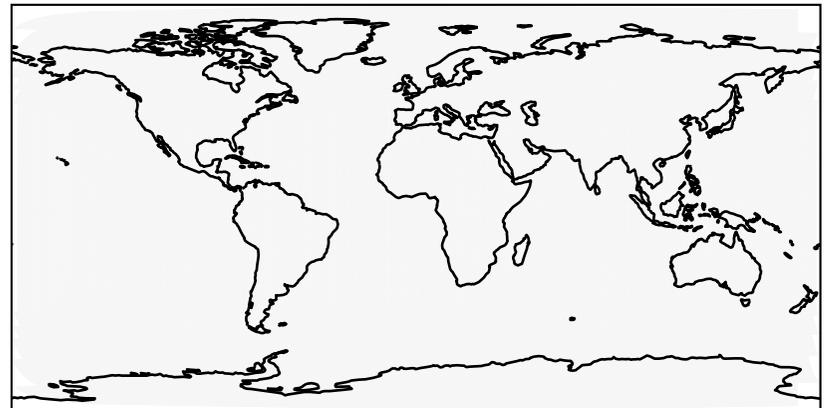
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



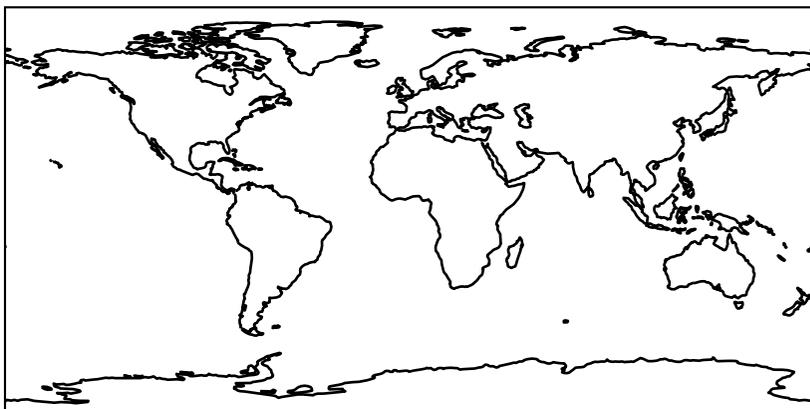
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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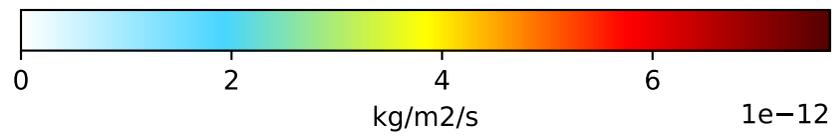
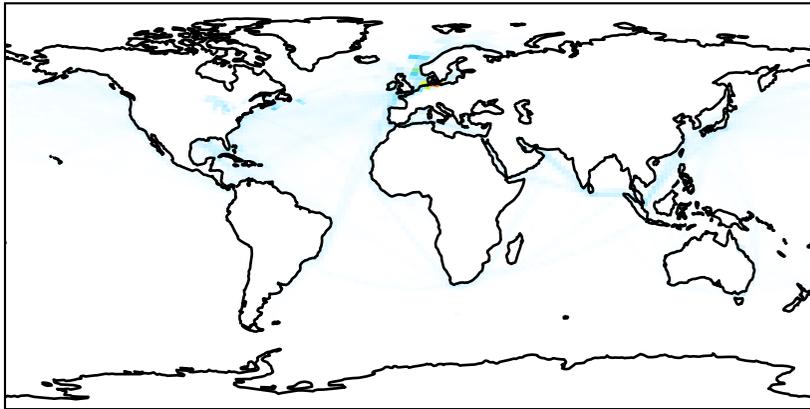
Ratio
Dev/Ref, Fixed Range



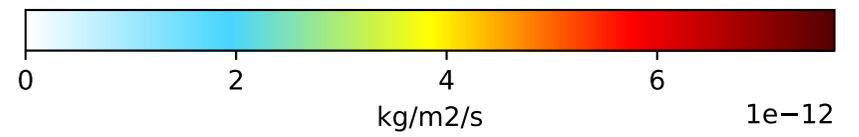
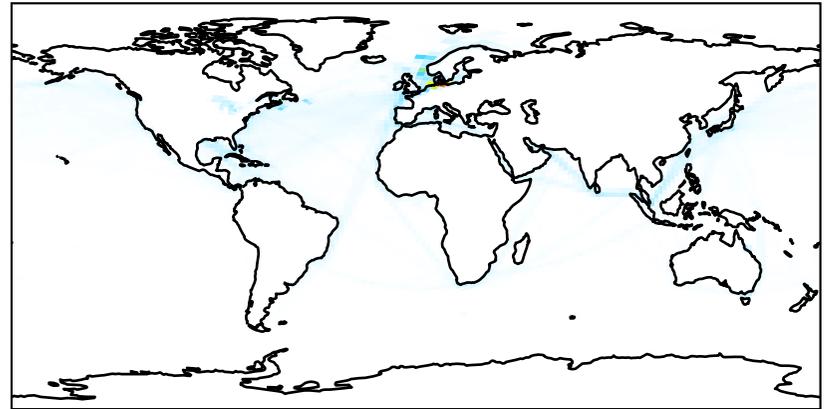
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EmisCO_Ship (Apr2019)

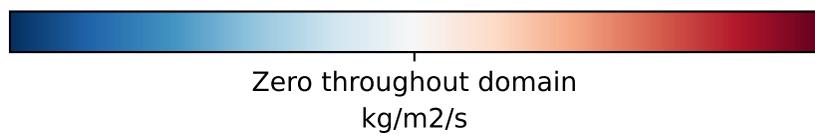
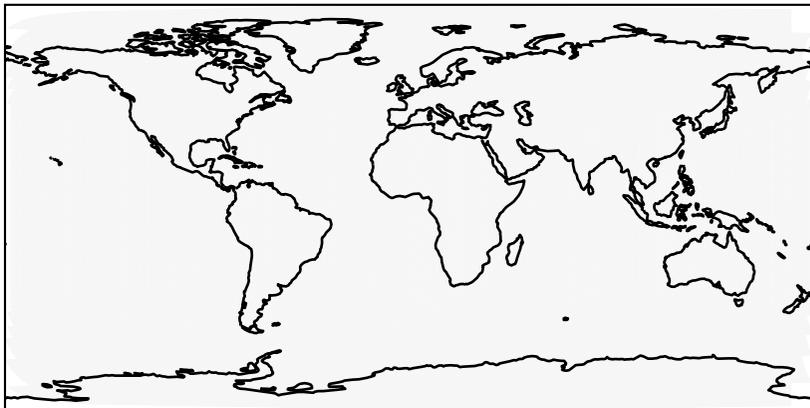
GCHP_13.2.0 (Ref)
c48



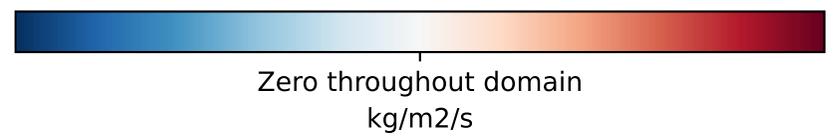
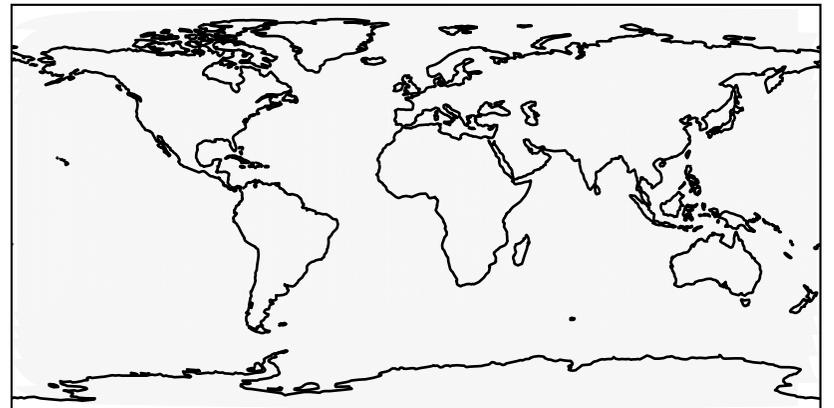
GCHP_13.2.0-LuoWetdep (Dev)
c48



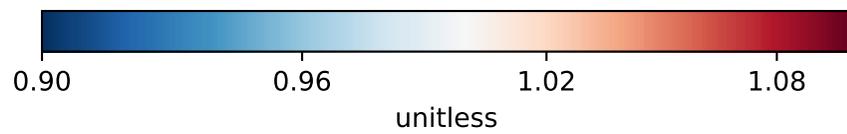
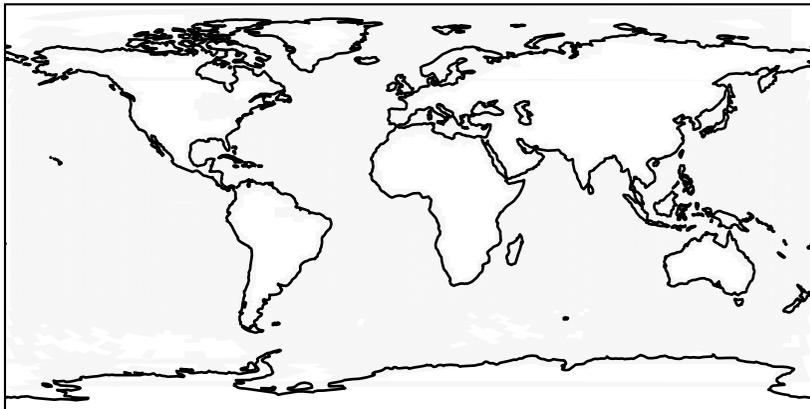
Difference
Dev - Ref, Dynamic Range



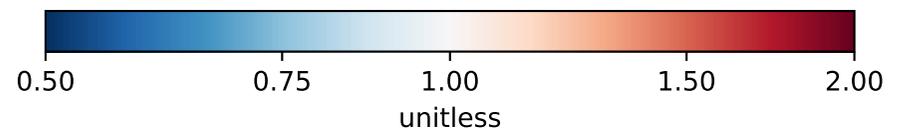
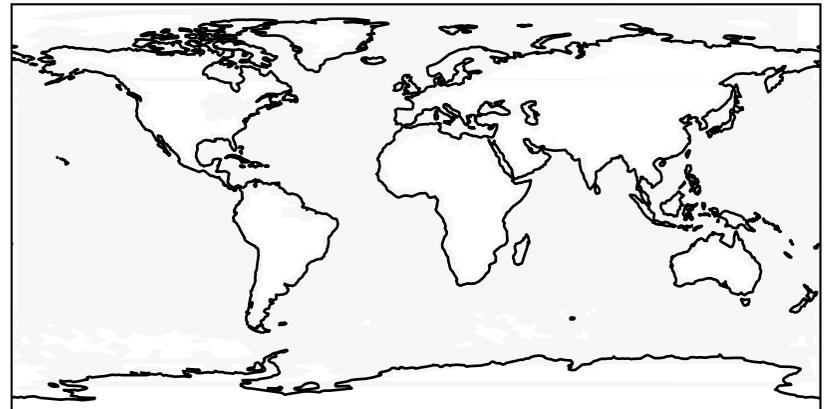
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

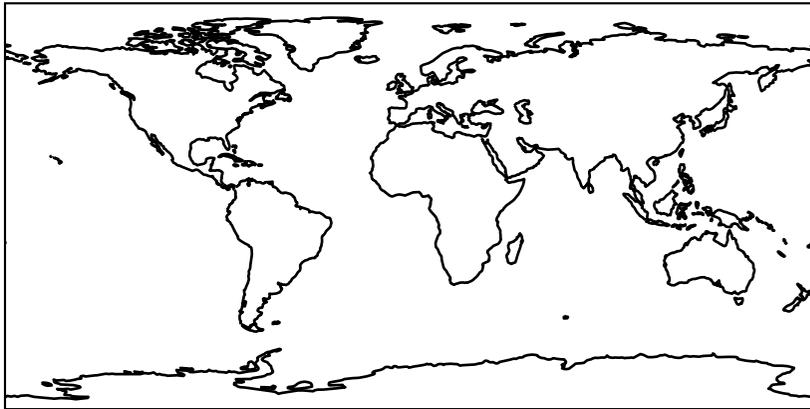


Ratio
Dev/Ref, Fixed Range



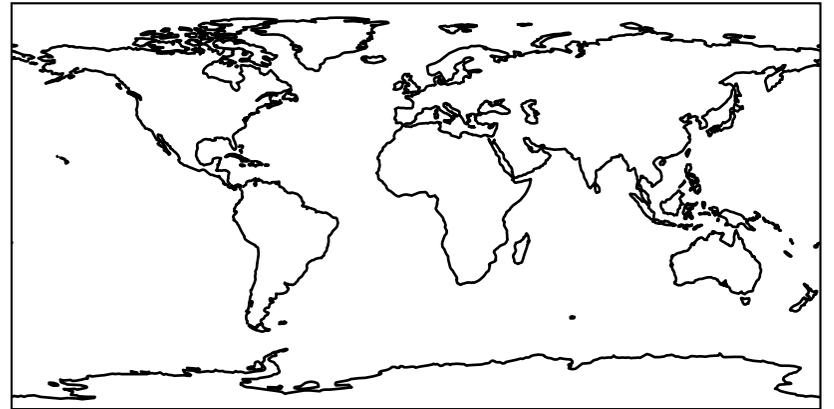
EmisEOH_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



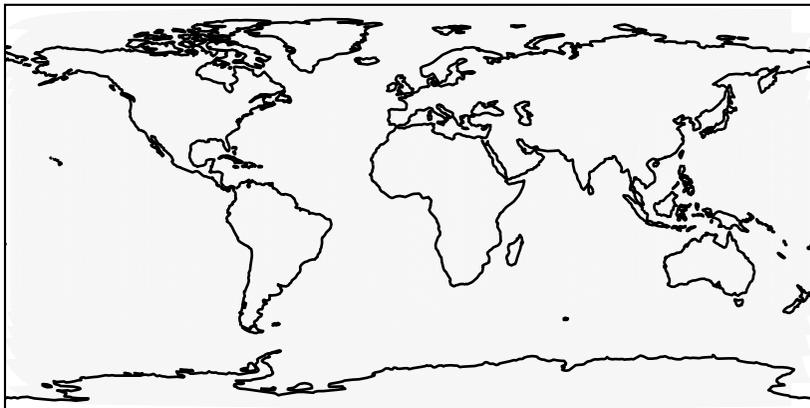
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



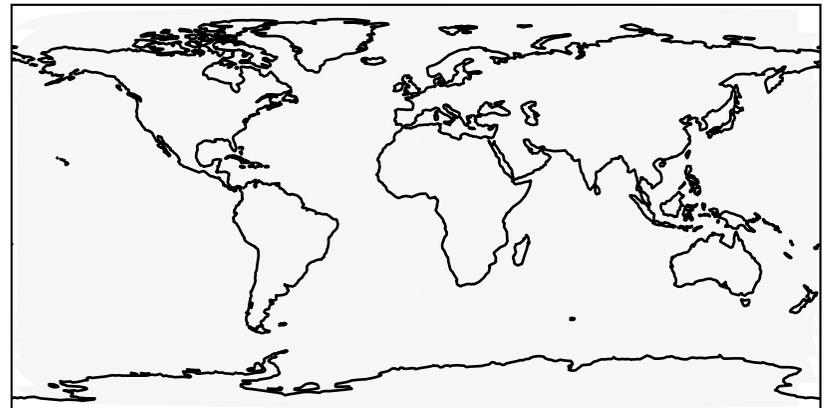
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



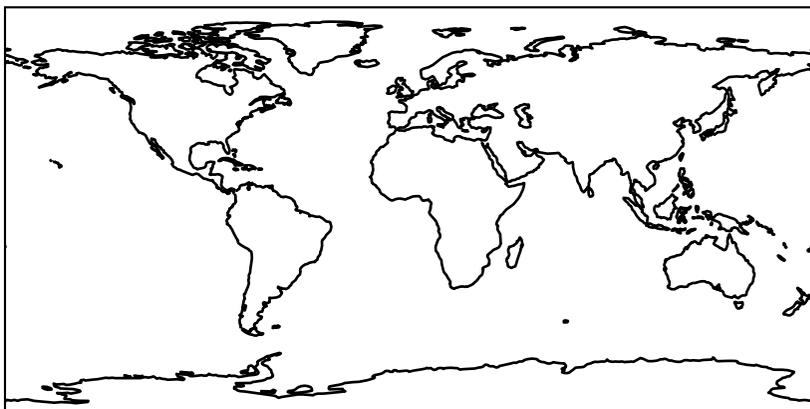
Zero throughout domain
kg/m2/s

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



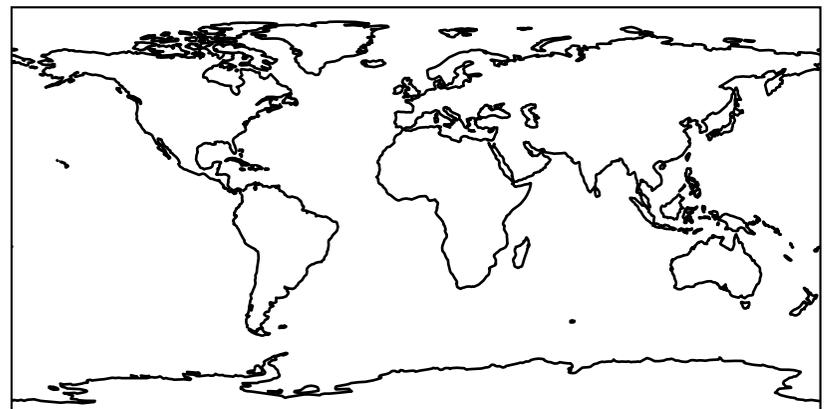
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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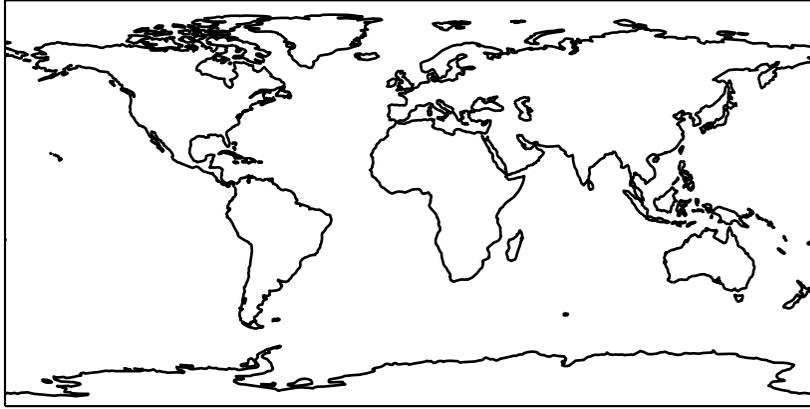
Ratio
Dev/Ref, Fixed Range



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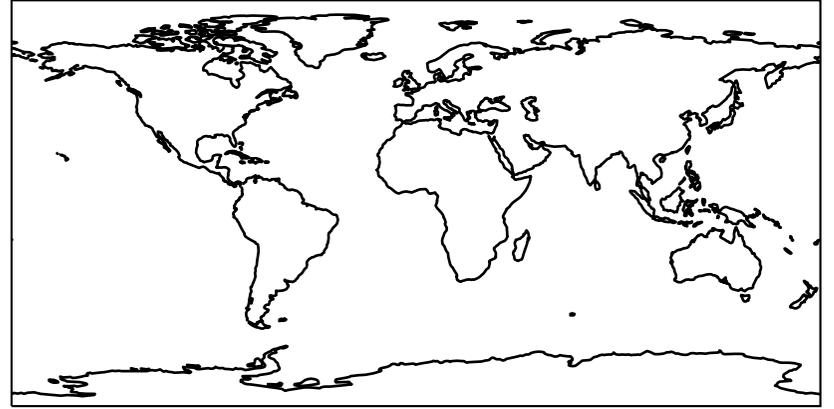
EmisHCOOH_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



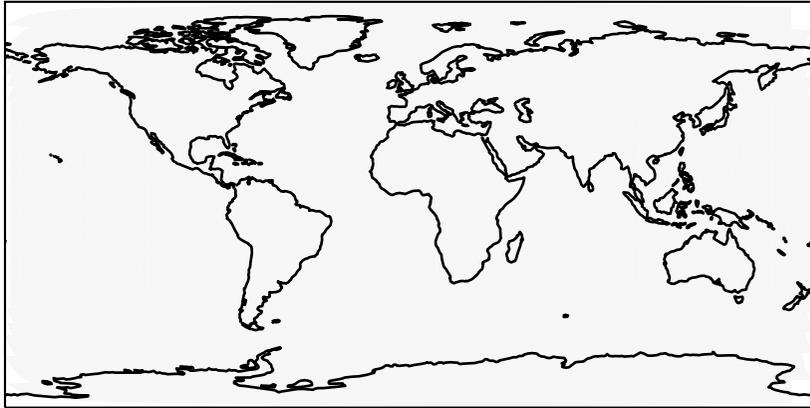
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



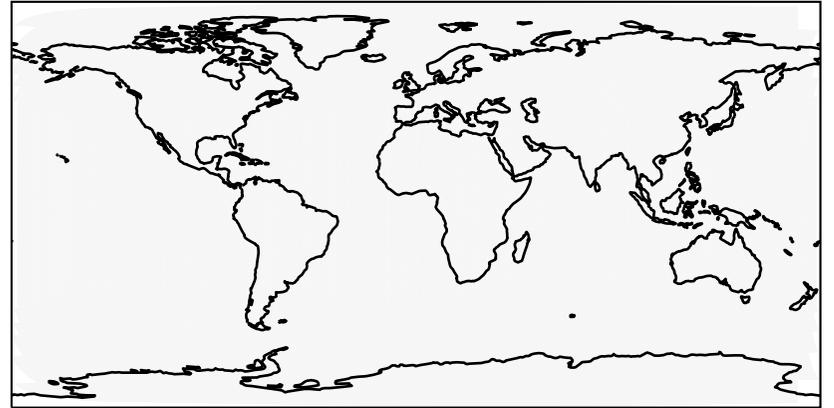
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



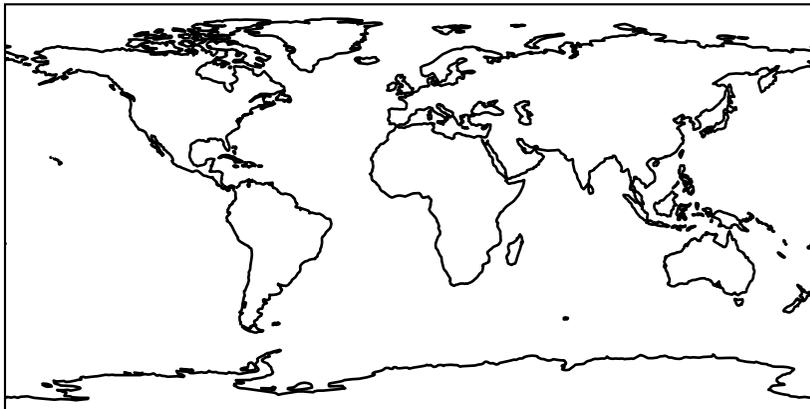
Zero throughout domain
kg/m2/s

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



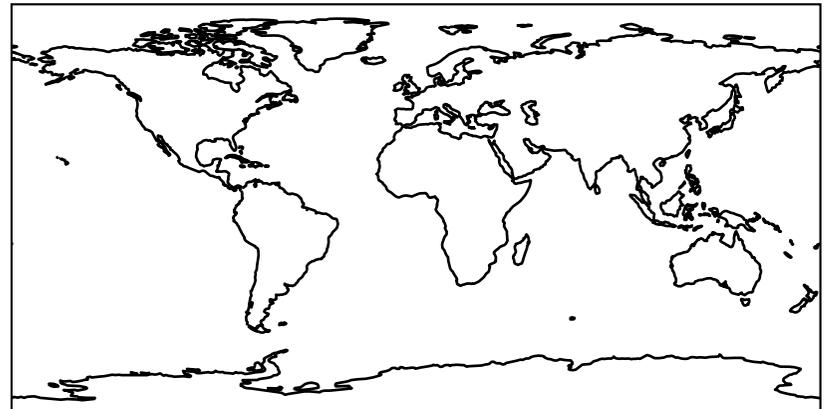
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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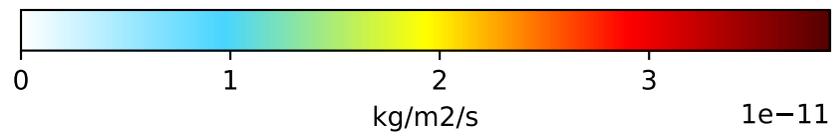
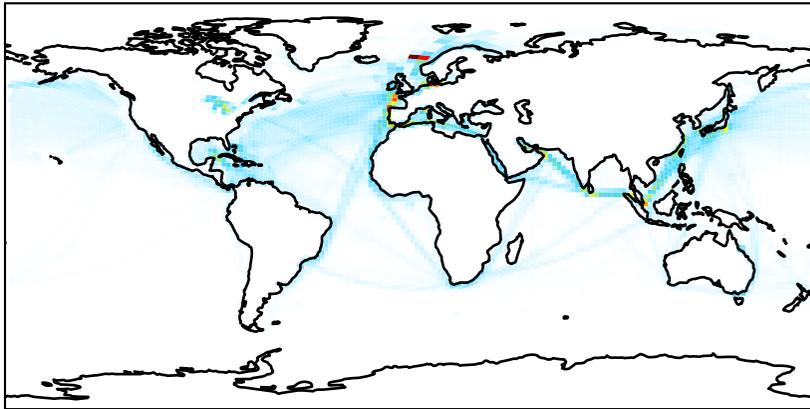
Ratio
Dev/Ref, Fixed Range



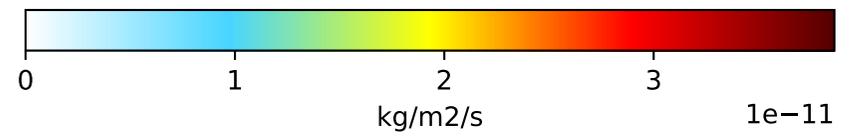
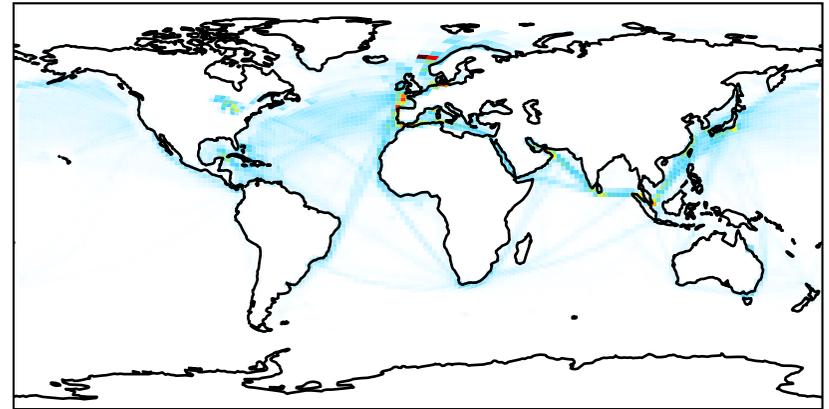
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EmisHNO3_Ship (Apr2019)

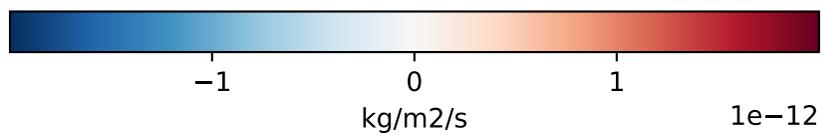
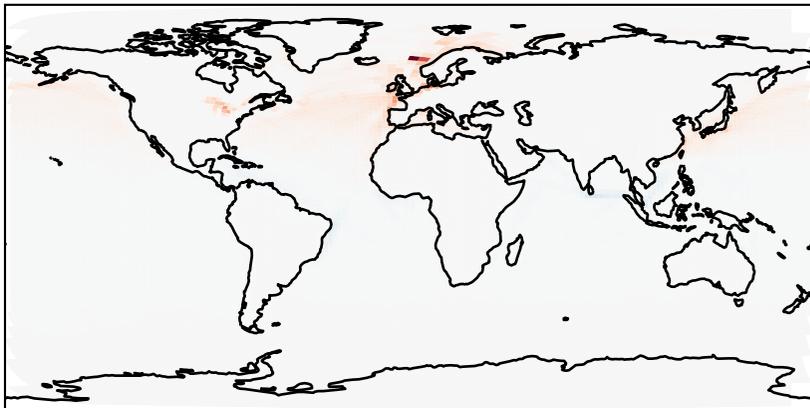
GCHP_13.2.0 (Ref)
c48



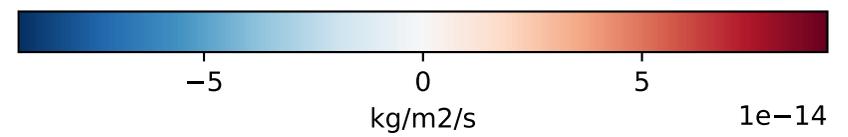
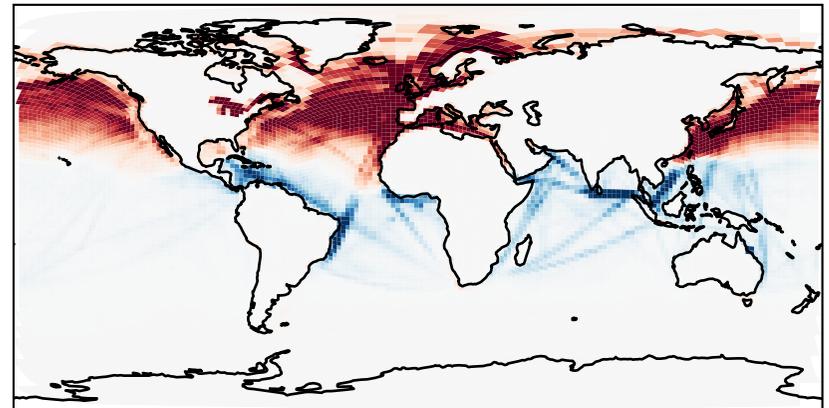
GCHP_13.2.0-LuoWetdep (Dev)
c48



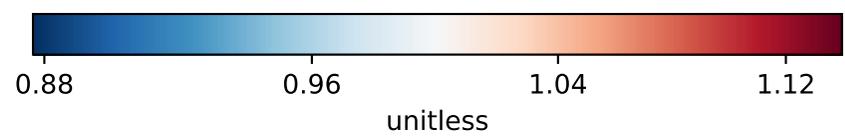
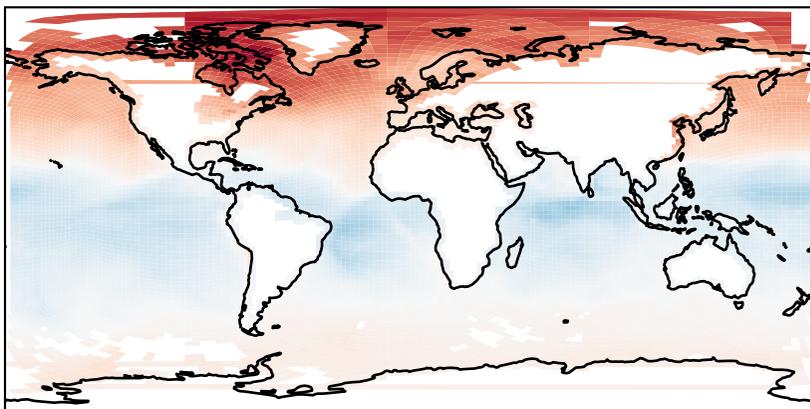
Difference
Dev - Ref, Dynamic Range



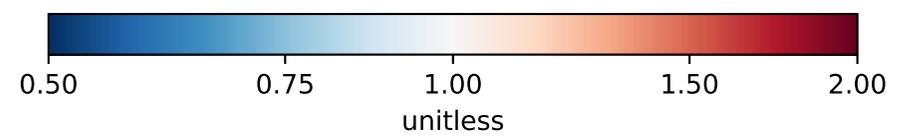
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

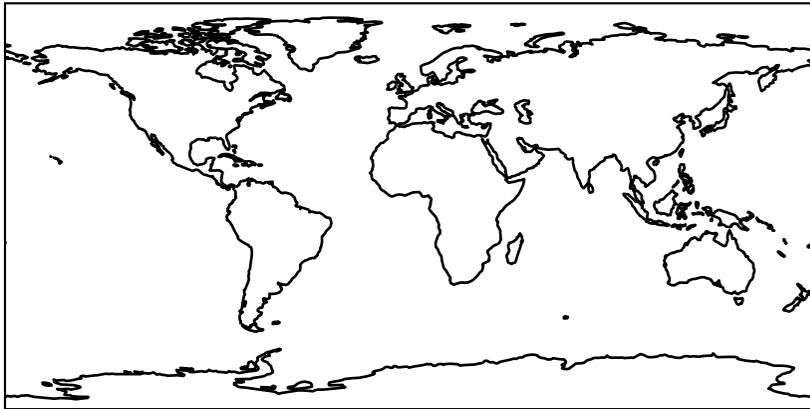


Ratio
Dev/Ref, Fixed Range



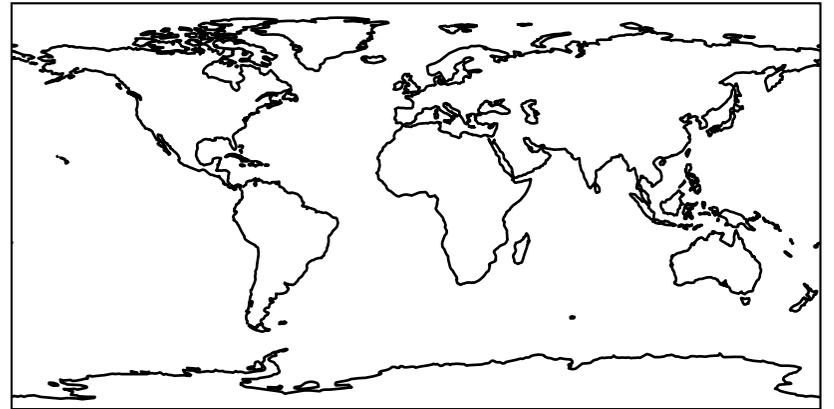
EmisMEK_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



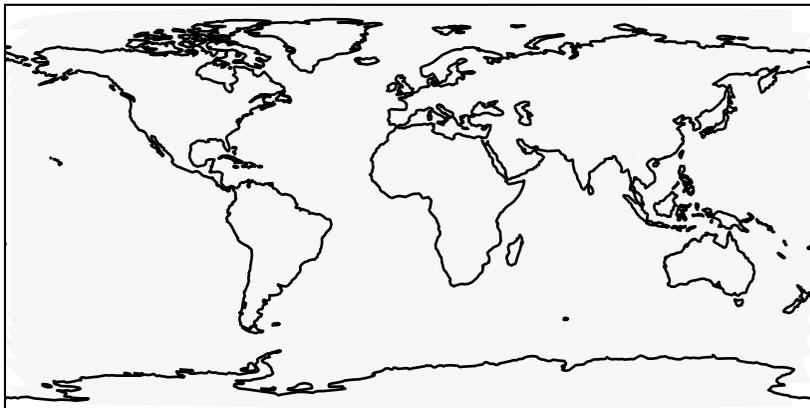
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



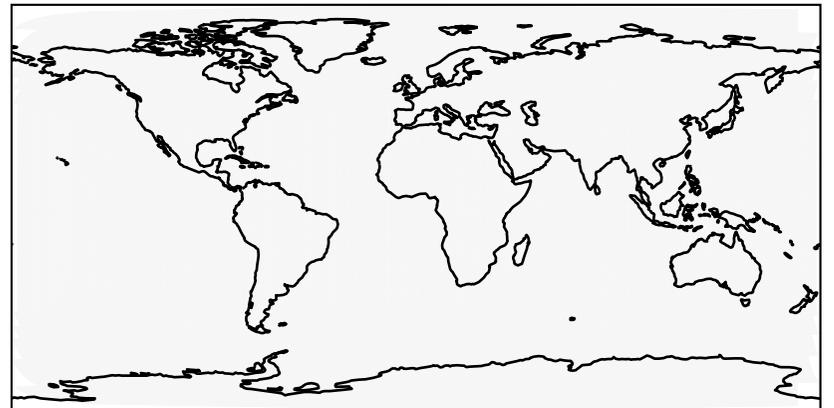
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



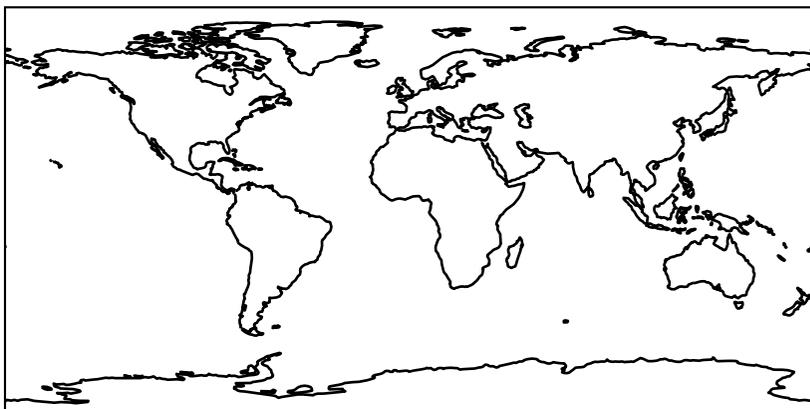
Zero throughout domain
kg/m2/s

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



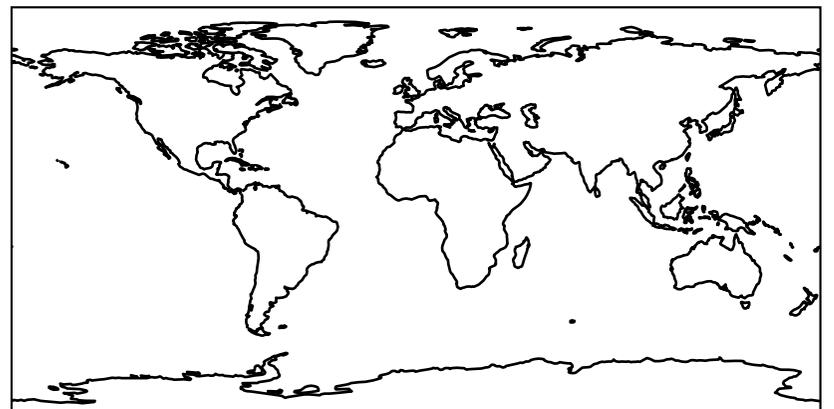
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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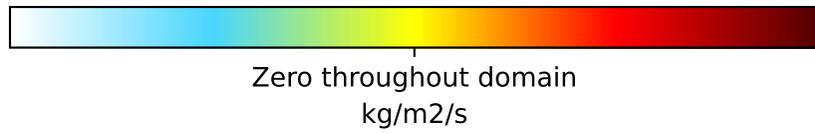
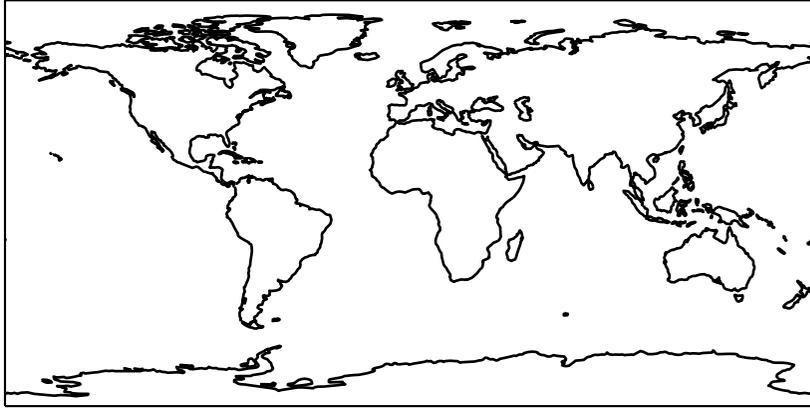
Ratio
Dev/Ref, Fixed Range



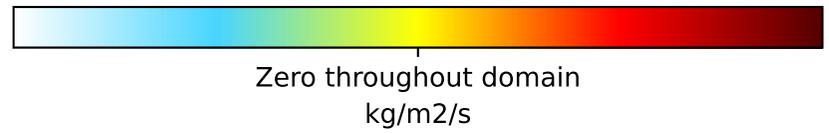
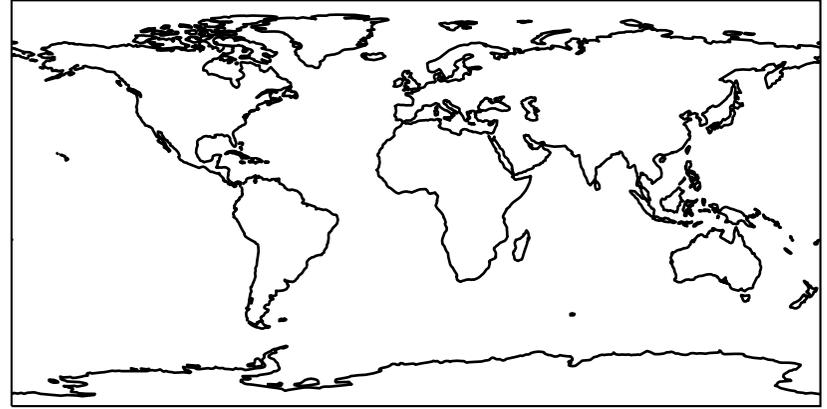
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EmisMOH_Ship (Apr2019)

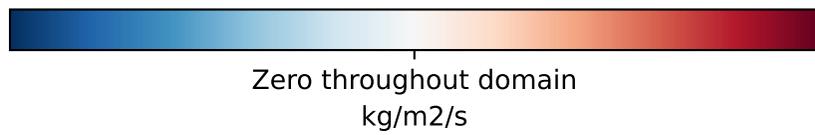
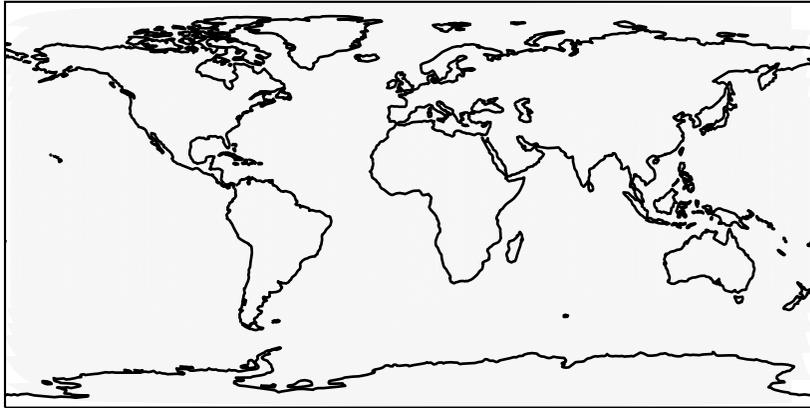
GCHP_13.2.0 (Ref)
c48



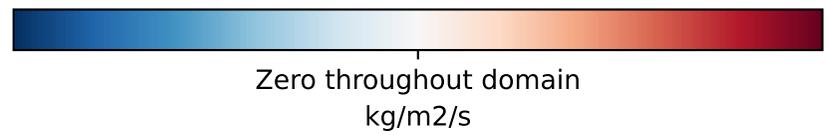
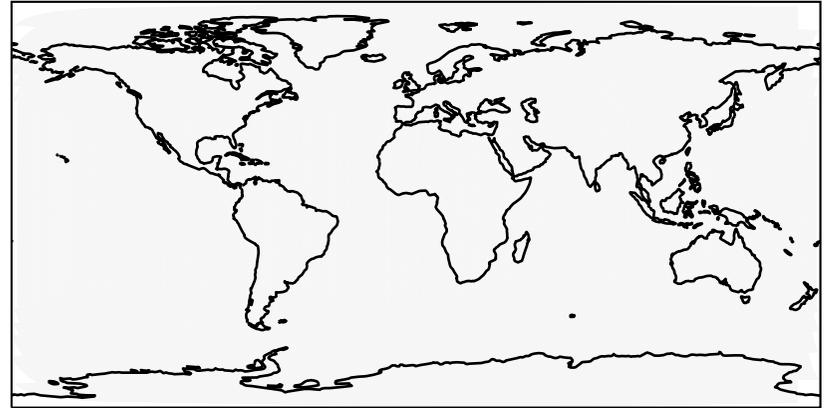
GCHP_13.2.0-LuoWetdep (Dev)
c48



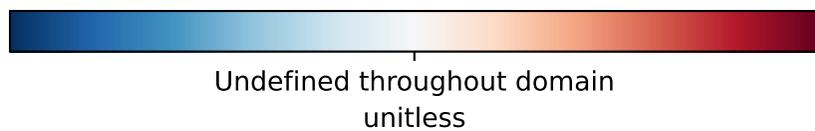
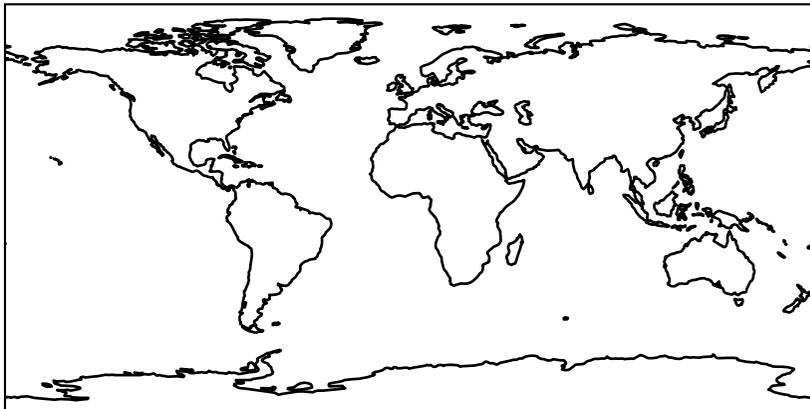
Difference
Dev - Ref, Dynamic Range



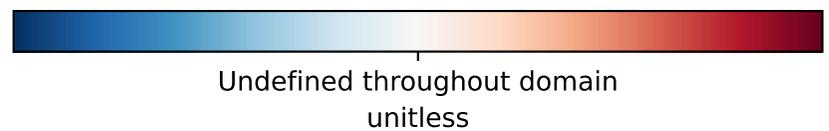
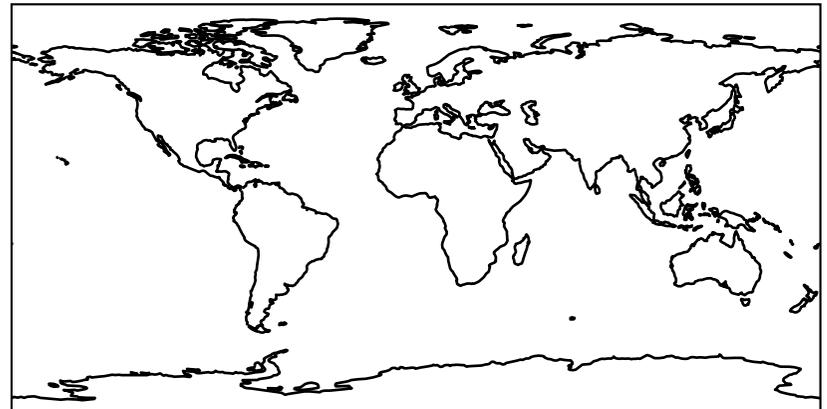
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

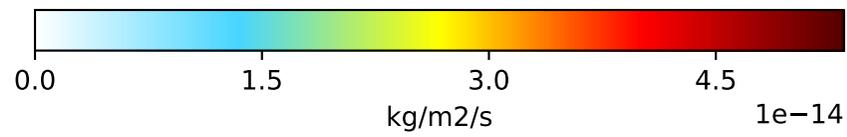
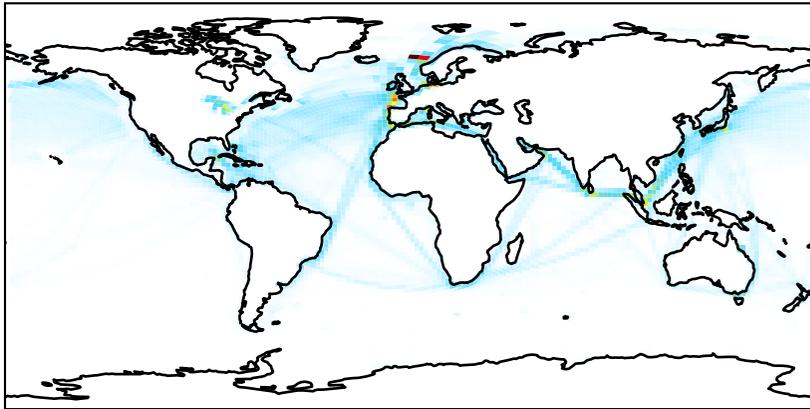


Ratio
Dev/Ref, Fixed Range

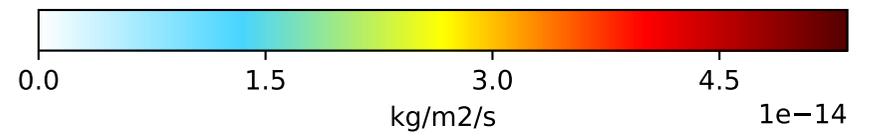
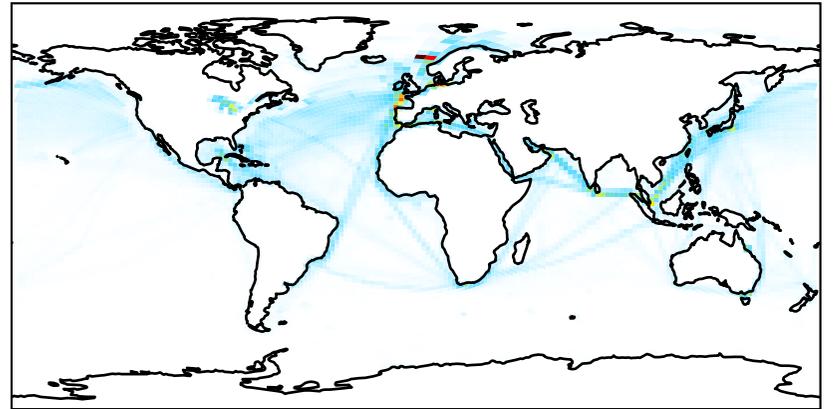


EmisNH3_Ship (Apr2019)

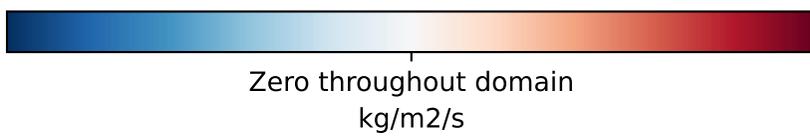
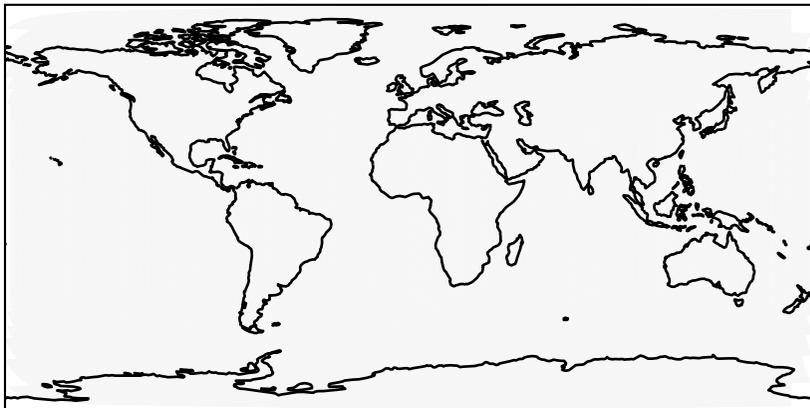
GCHP_13.2.0 (Ref)
c48



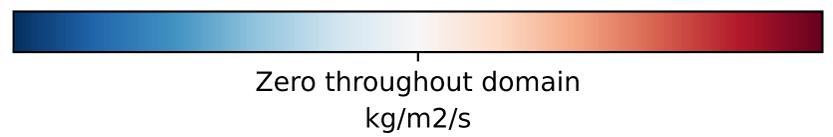
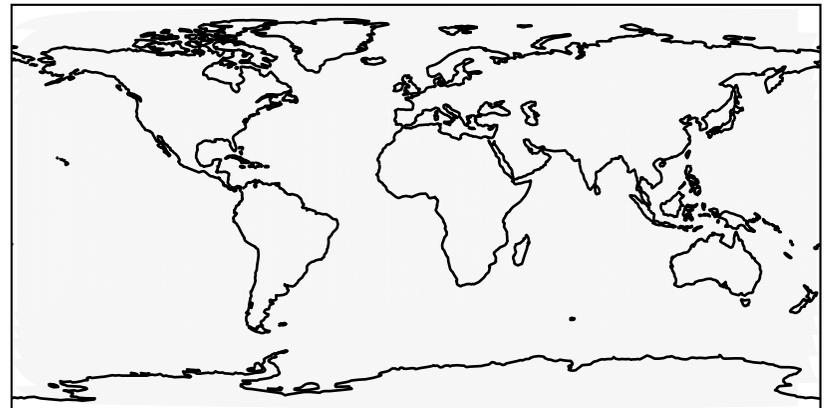
GCHP_13.2.0-LuoWetdep (Dev)
c48



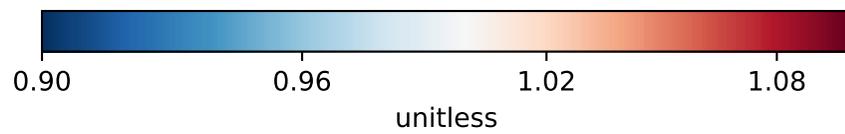
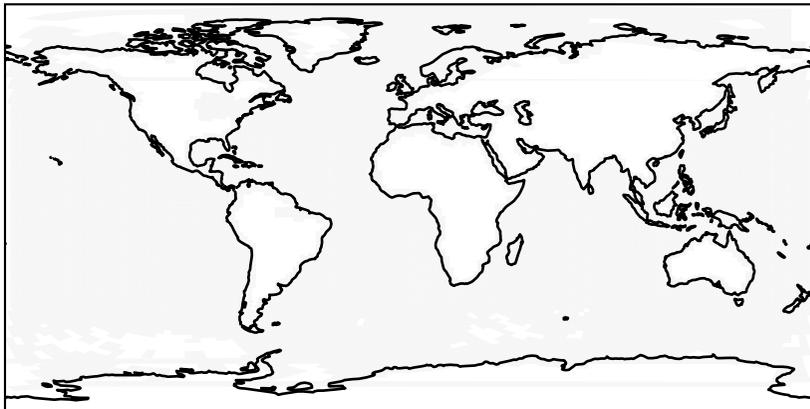
Difference
Dev - Ref, Dynamic Range



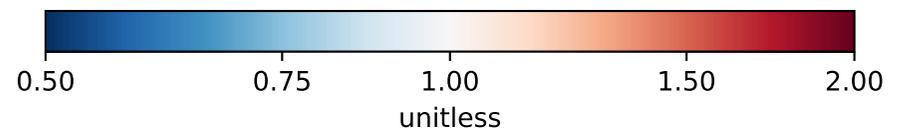
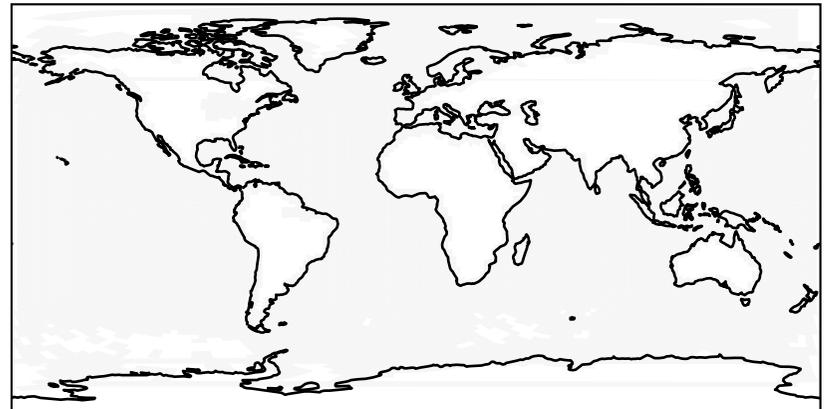
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

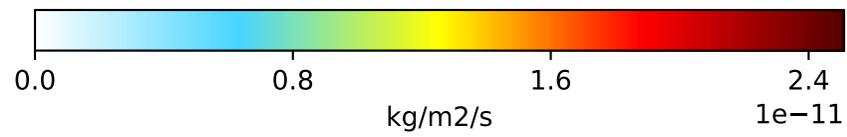
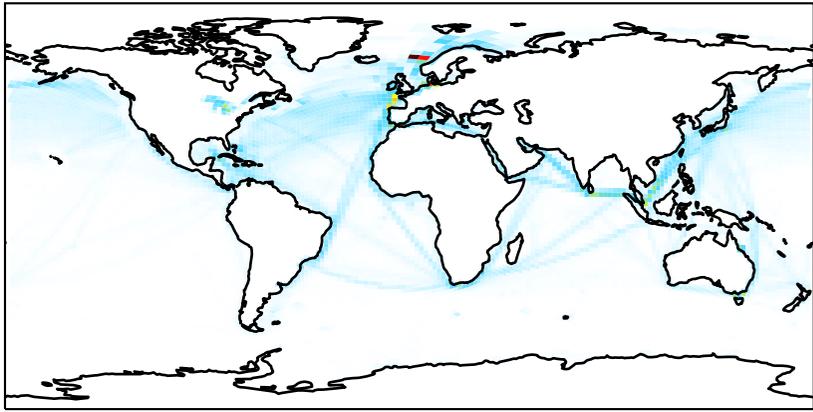


Ratio
Dev/Ref, Fixed Range

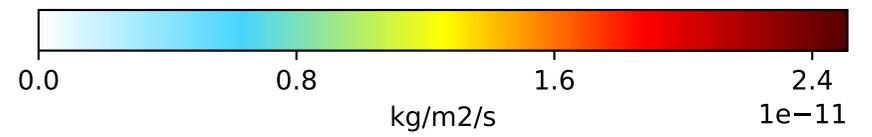
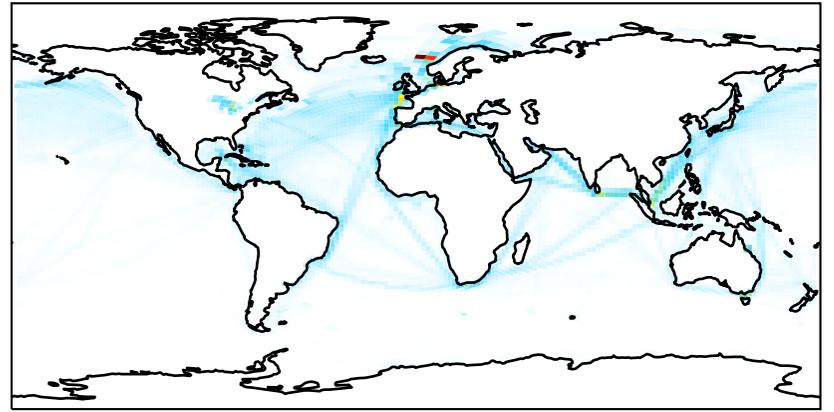


EmisNO2_Ship (Apr2019)

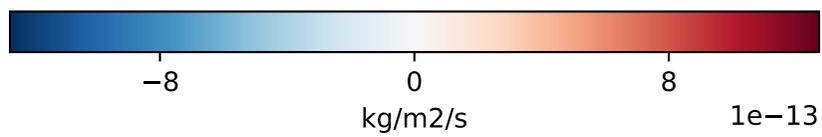
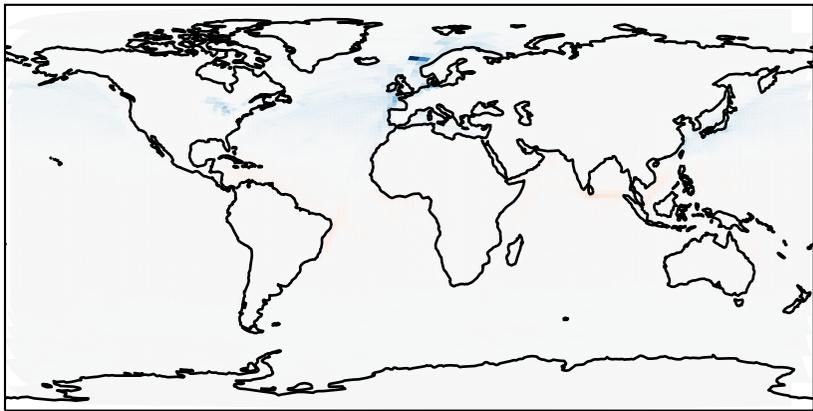
GCHP_13.2.0 (Ref)
c48



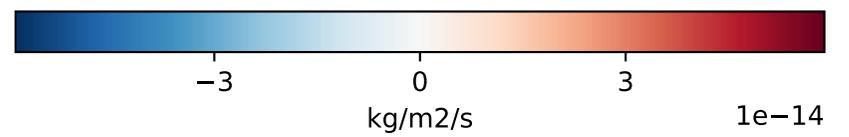
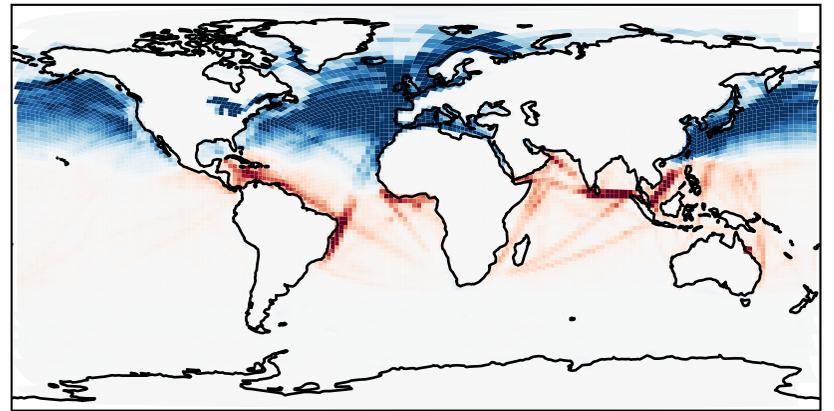
GCHP_13.2.0-LuoWetdep (Dev)
c48



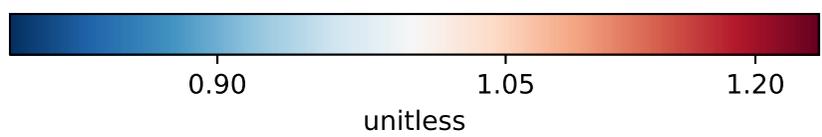
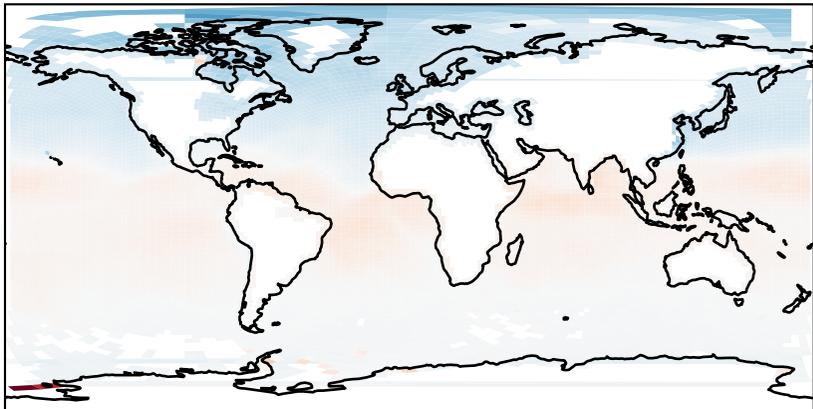
Difference
Dev - Ref, Dynamic Range



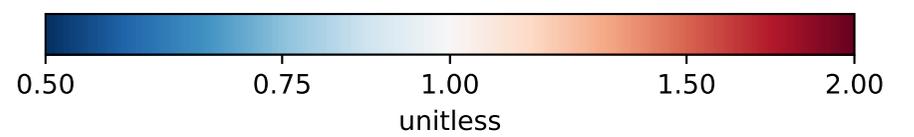
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

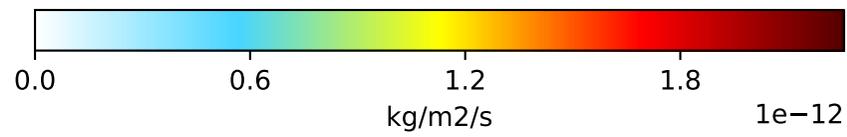
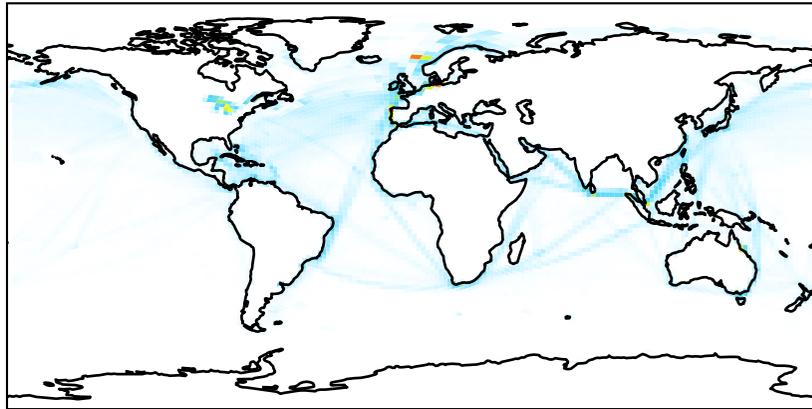


Ratio
Dev/Ref, Fixed Range

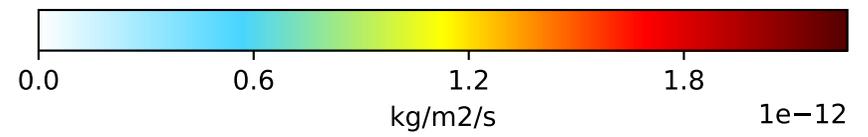
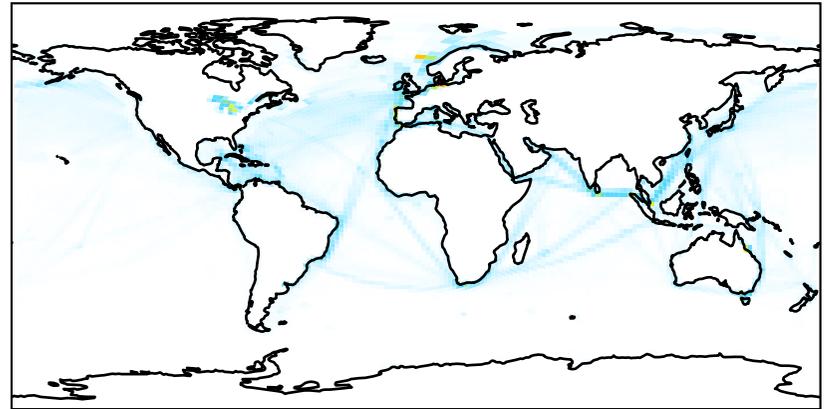


EmisNO_Ship (Apr2019)

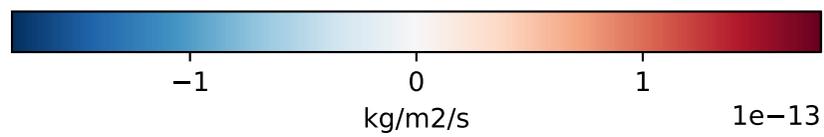
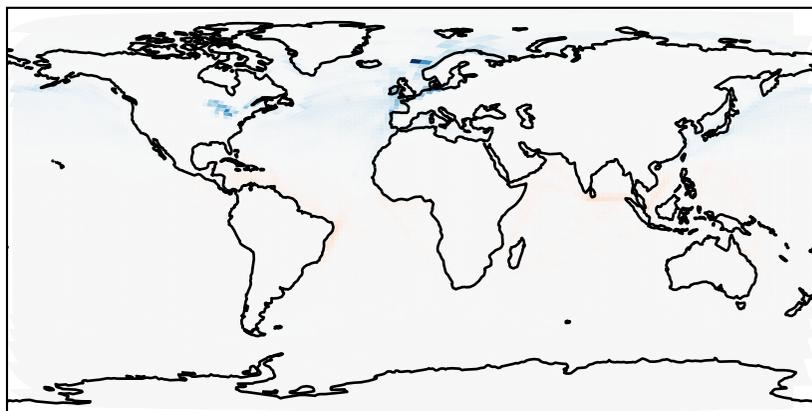
GCHP_13.2.0 (Ref)
c48



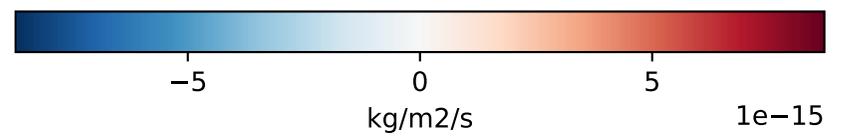
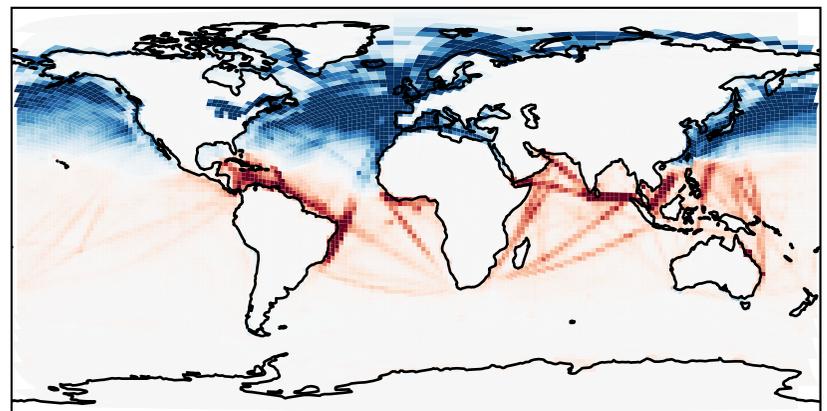
GCHP_13.2.0-LuoWetdep (Dev)
c48



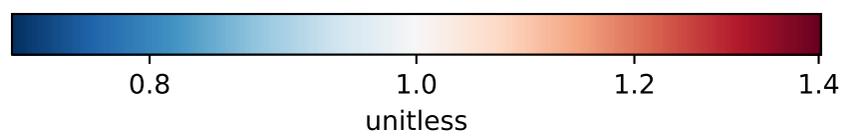
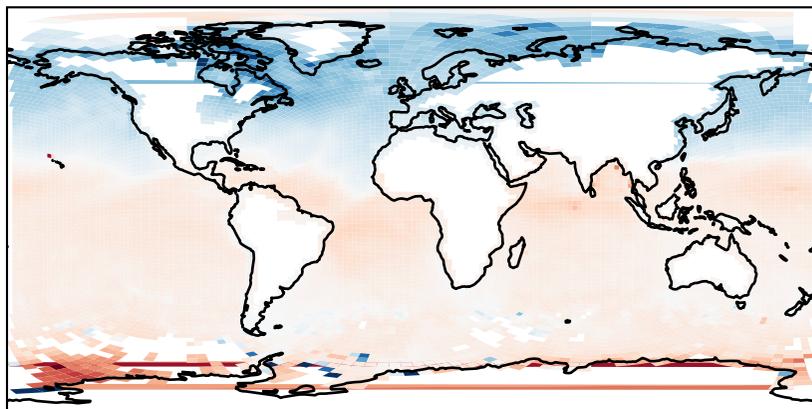
Difference
Dev - Ref, Dynamic Range



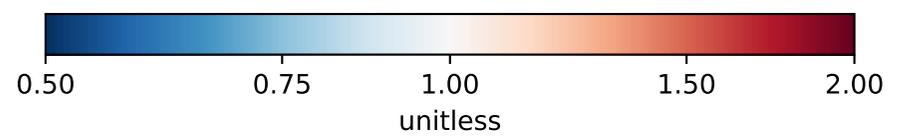
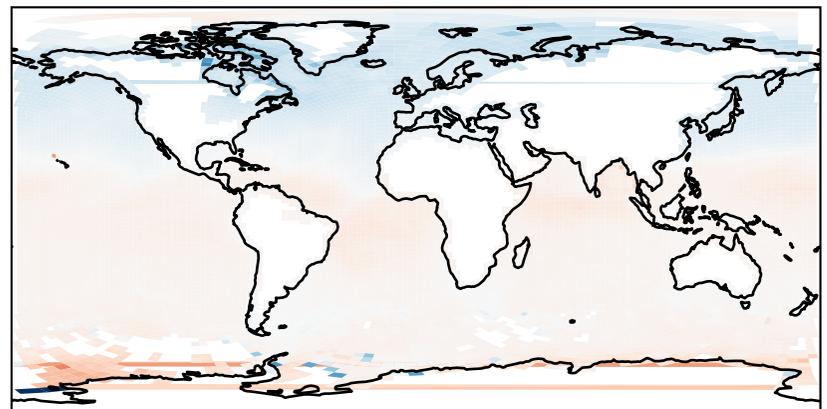
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

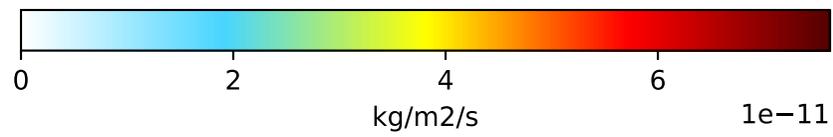
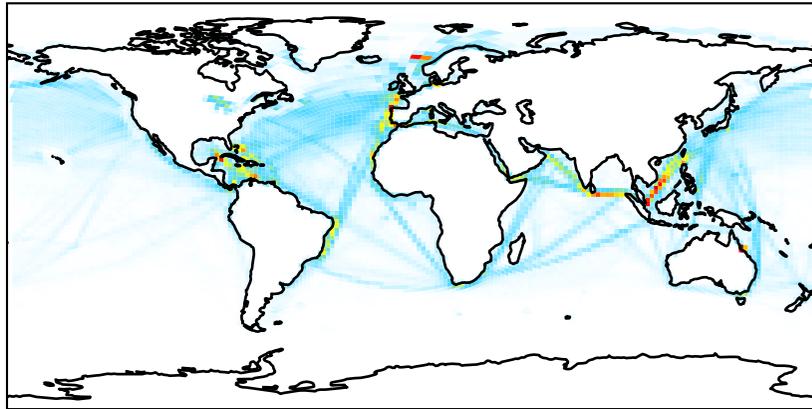


Ratio
Dev/Ref, Fixed Range

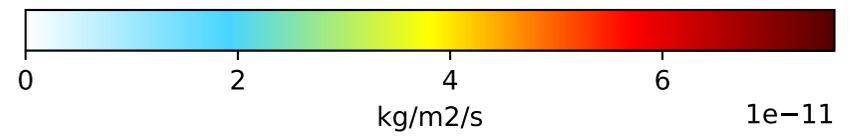
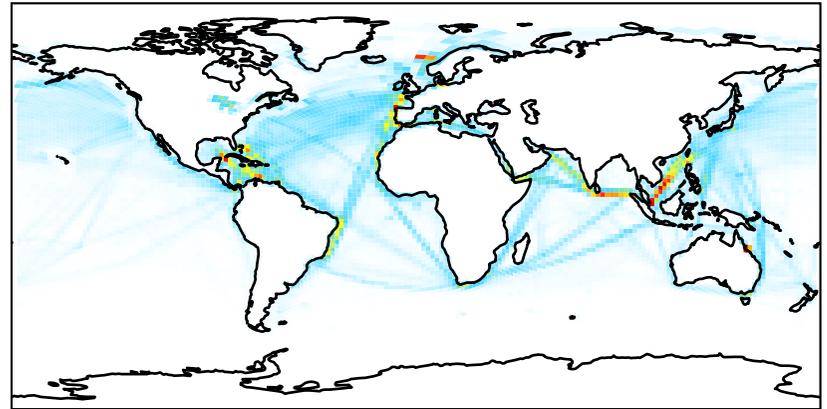


EmisO3_Ship (Apr2019)

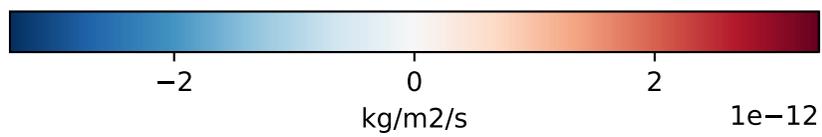
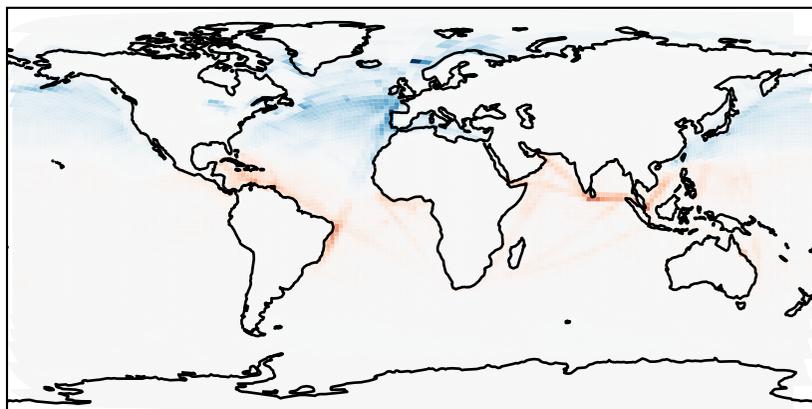
GCHP_13.2.0 (Ref)
c48



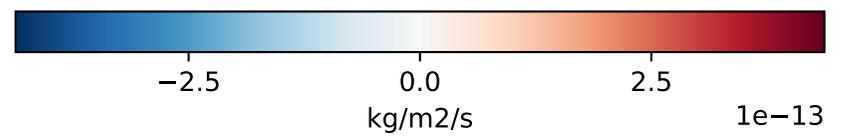
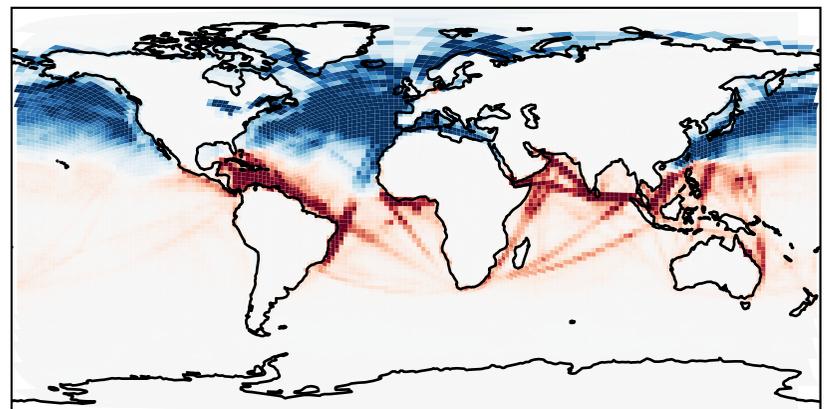
GCHP_13.2.0-LuoWetdep (Dev)
c48



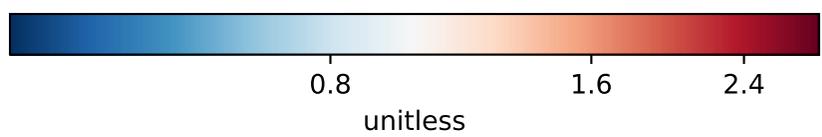
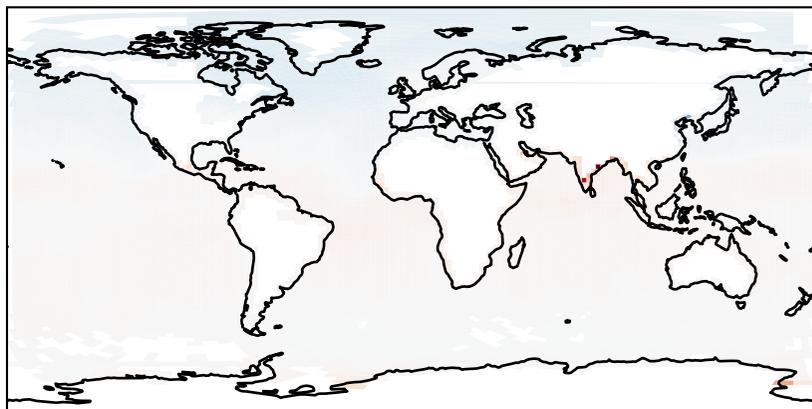
Difference
Dev - Ref, Dynamic Range



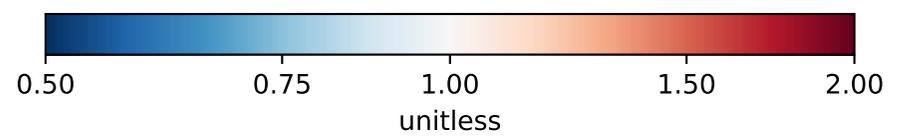
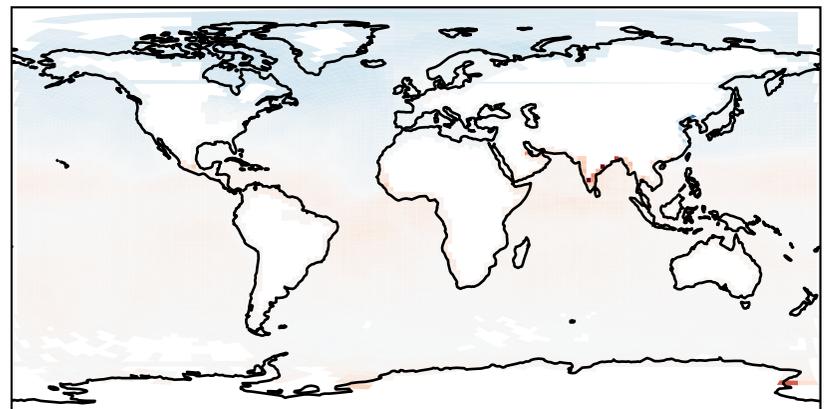
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

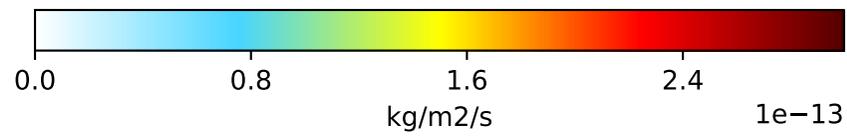
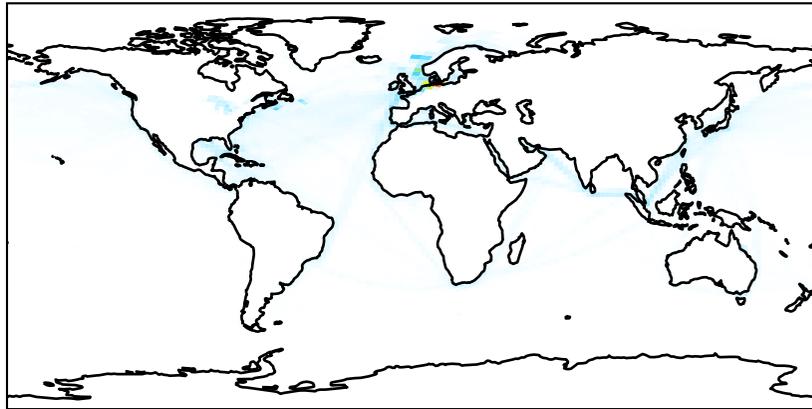


Ratio
Dev/Ref, Fixed Range

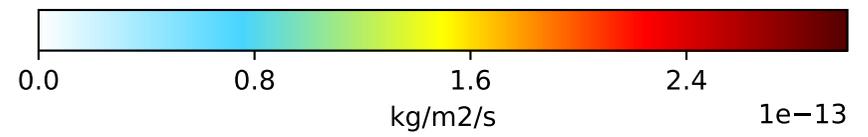
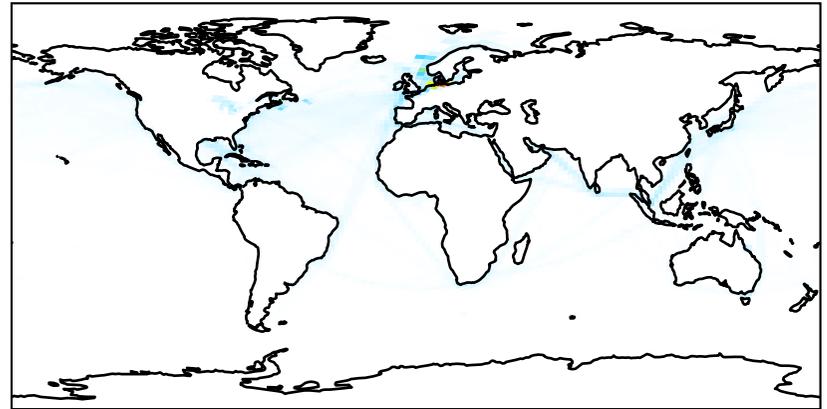


EmisOCPI_Ship (Apr2019)

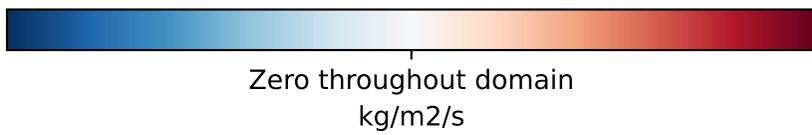
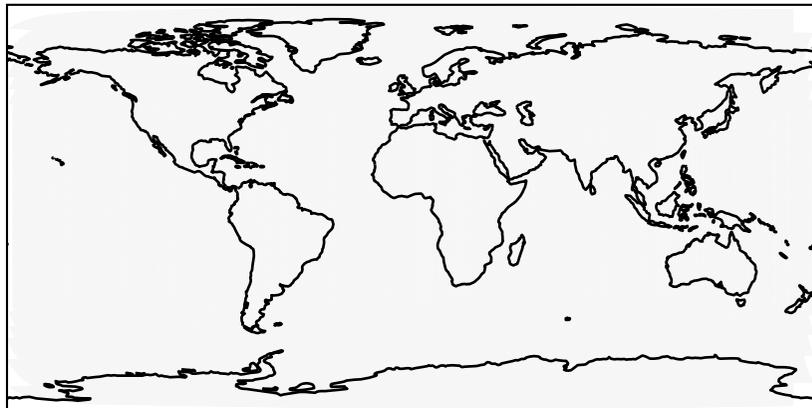
GCHP_13.2.0 (Ref)
c48



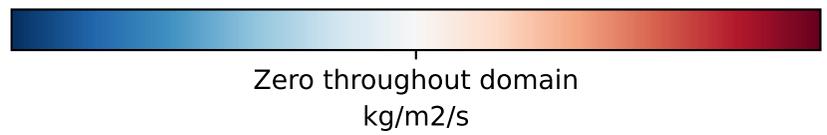
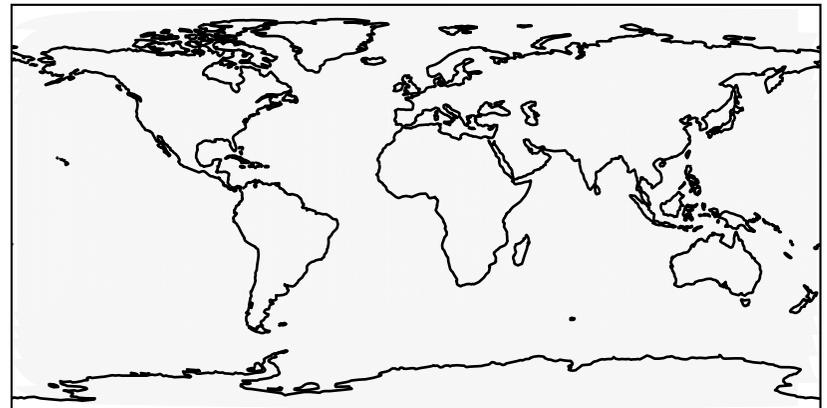
GCHP_13.2.0-LuoWetdep (Dev)
c48



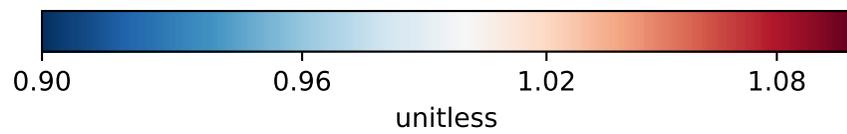
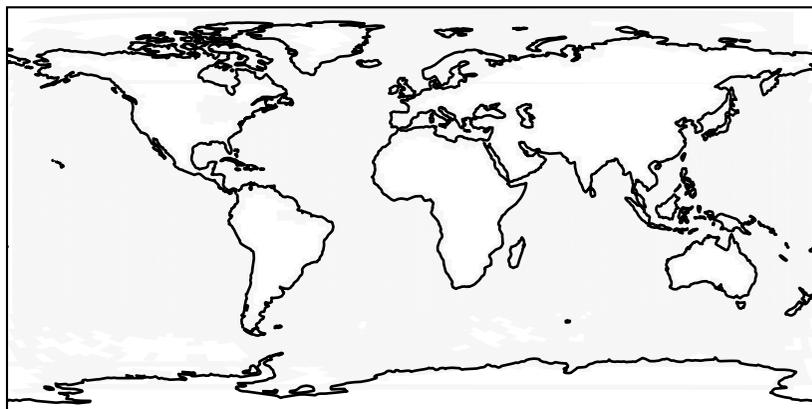
Difference
Dev - Ref, Dynamic Range



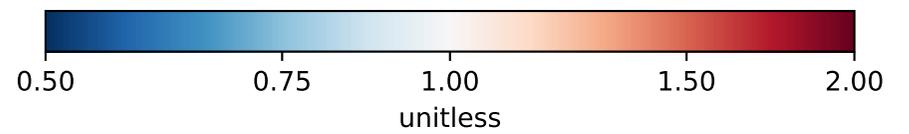
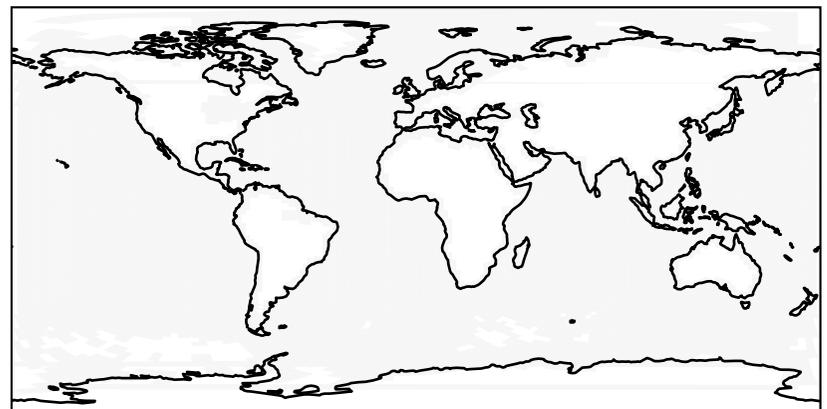
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

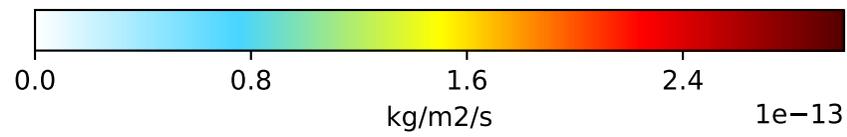
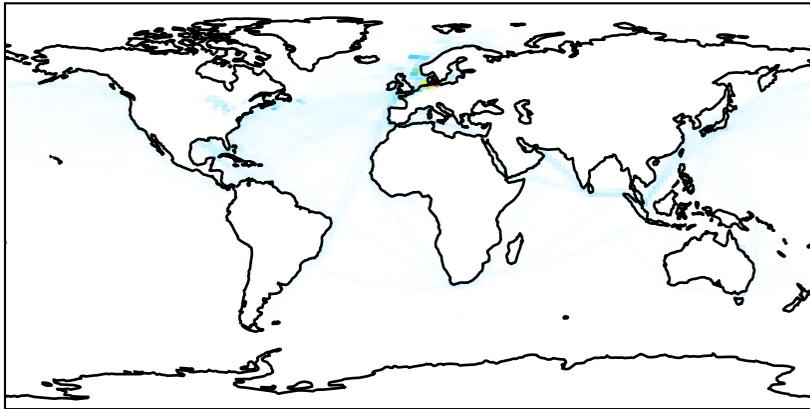


Ratio
Dev/Ref, Fixed Range

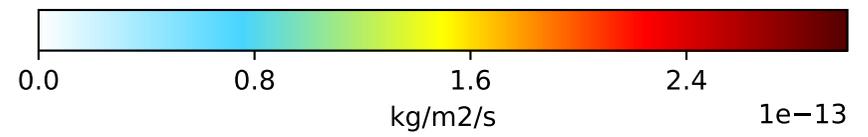
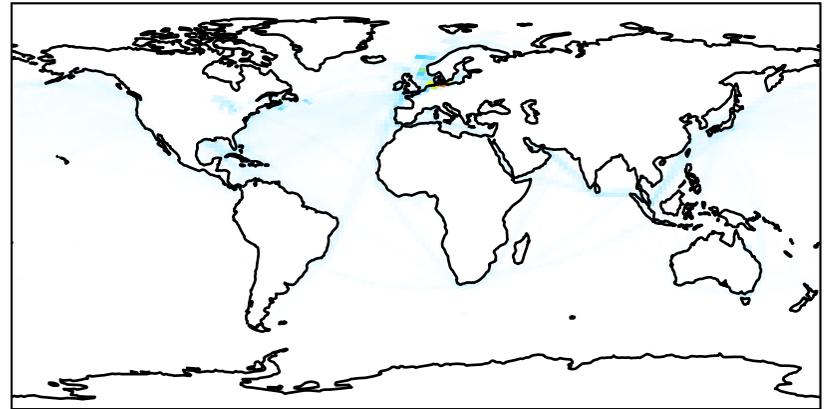


EmisOCPO_Ship (Apr2019)

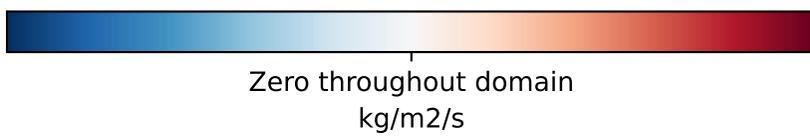
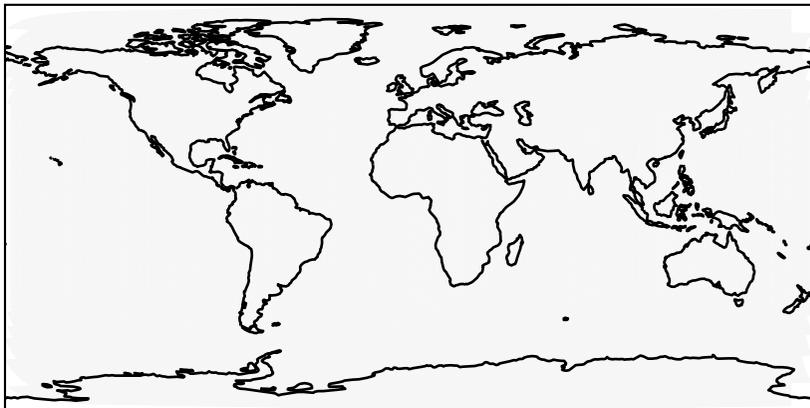
GCHP_13.2.0 (Ref)
c48



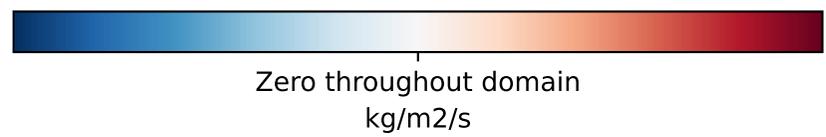
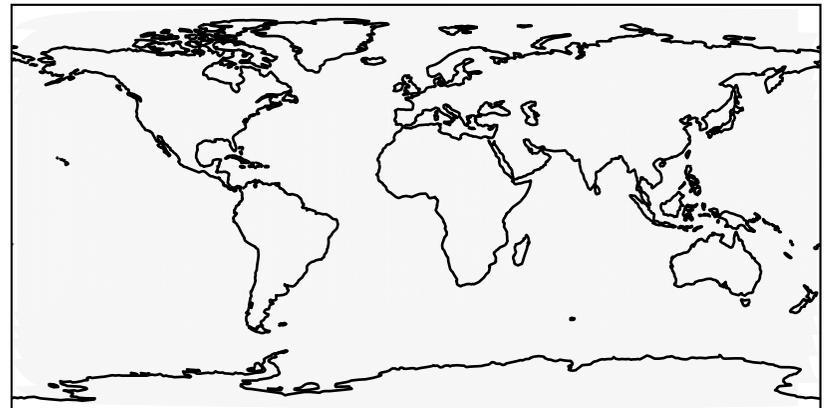
GCHP_13.2.0-LuoWetdep (Dev)
c48



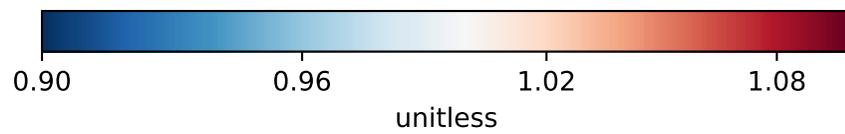
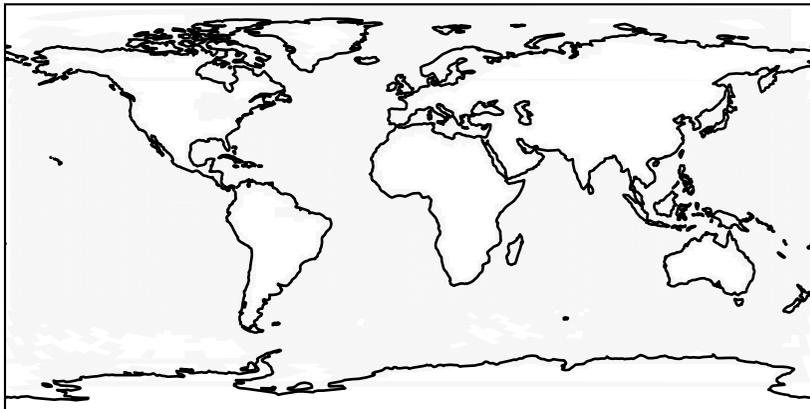
Difference
Dev - Ref, Dynamic Range



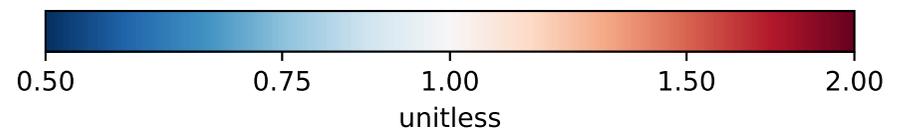
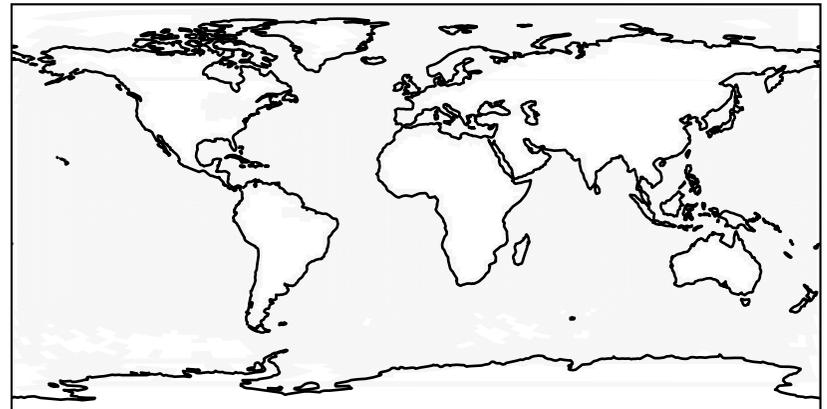
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

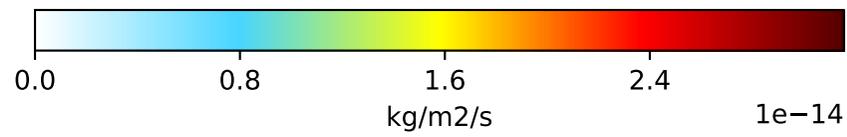
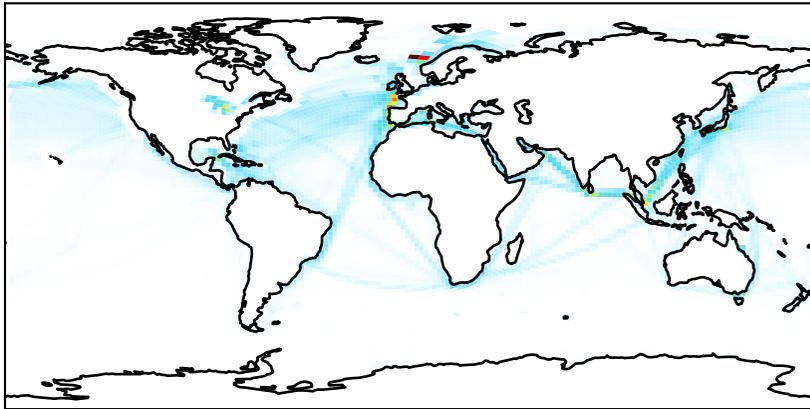


Ratio
Dev/Ref, Fixed Range

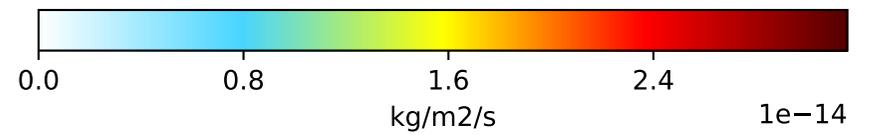
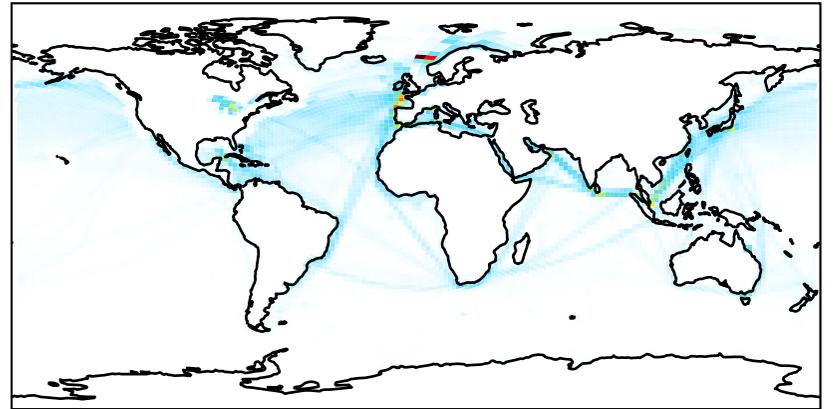


EmispFe_Ship (Apr2019)

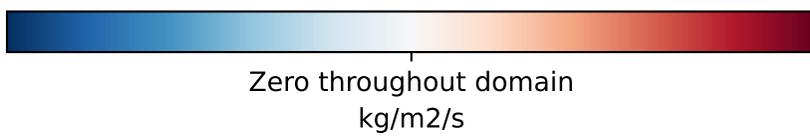
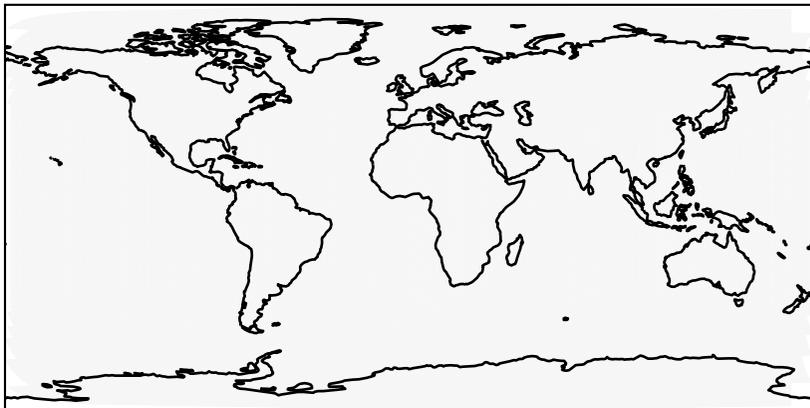
GCHP_13.2.0 (Ref)
c48



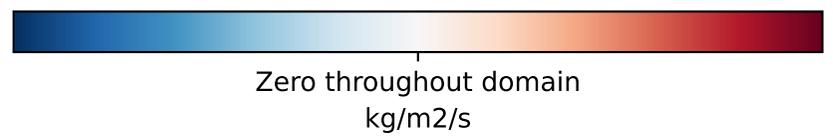
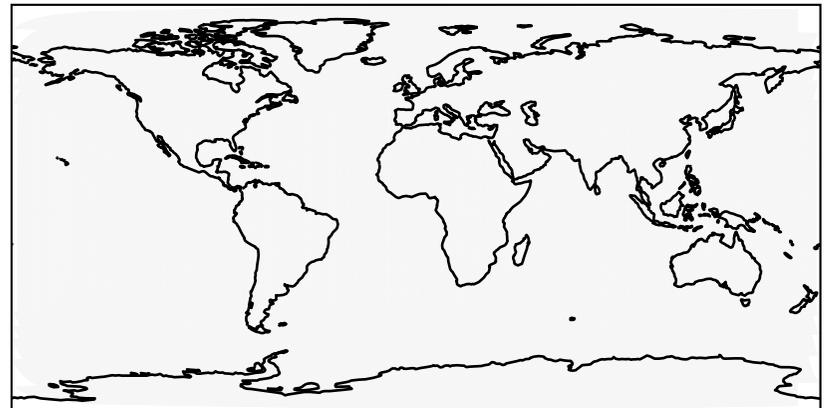
GCHP_13.2.0-LuoWetdep (Dev)
c48



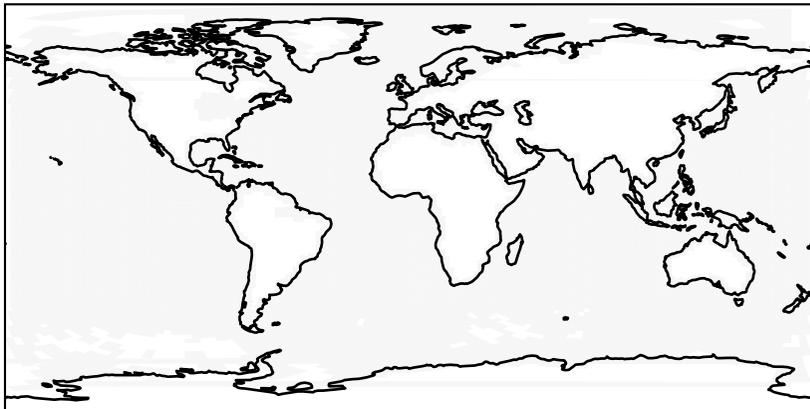
Difference
Dev - Ref, Dynamic Range



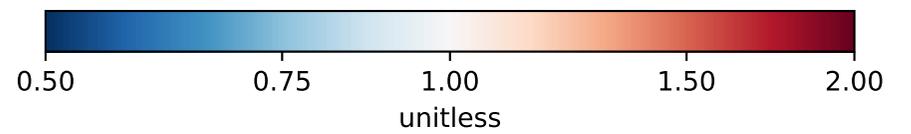
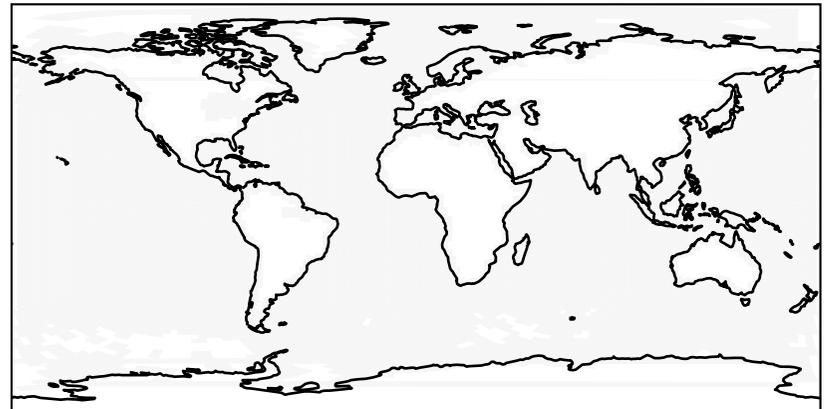
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

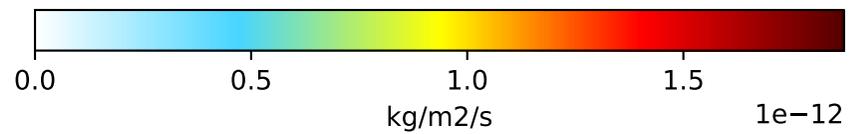
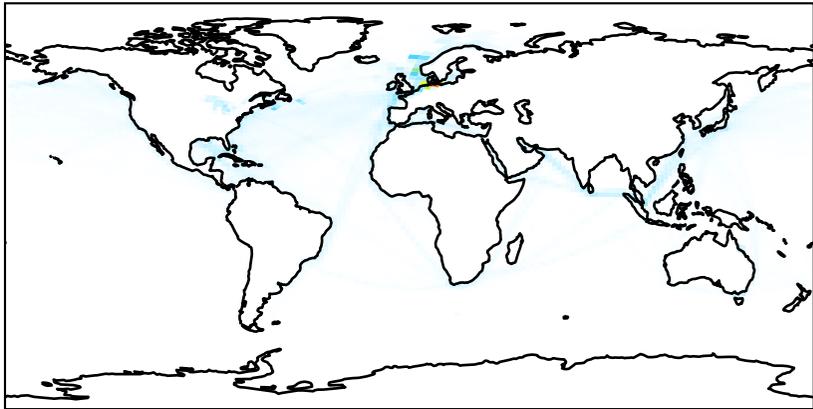


Ratio
Dev/Ref, Fixed Range

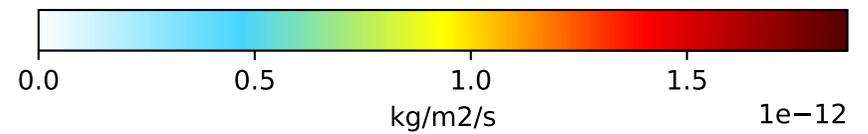
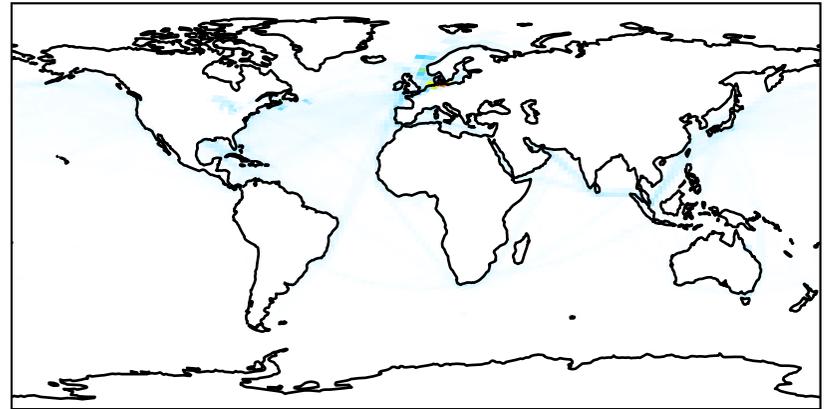


EmisPRPE_Ship (Apr2019)

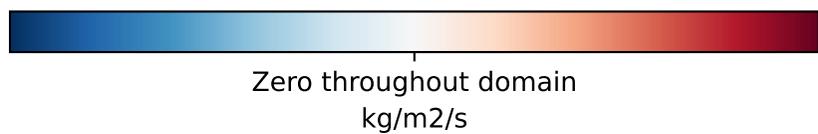
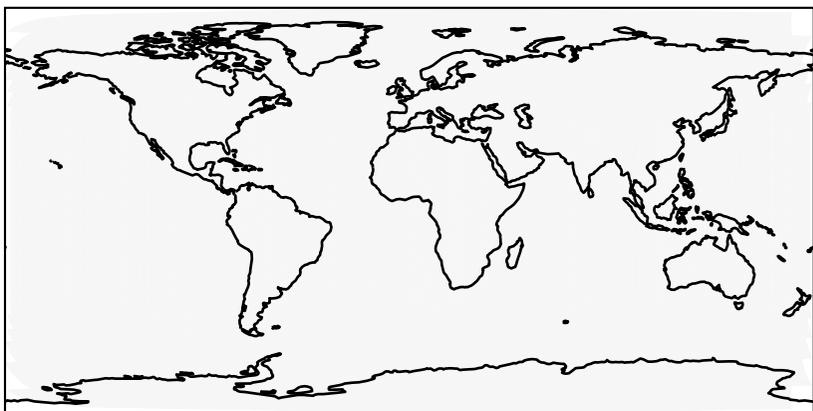
GCHP_13.2.0 (Ref)
c48



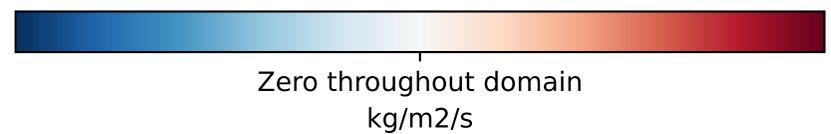
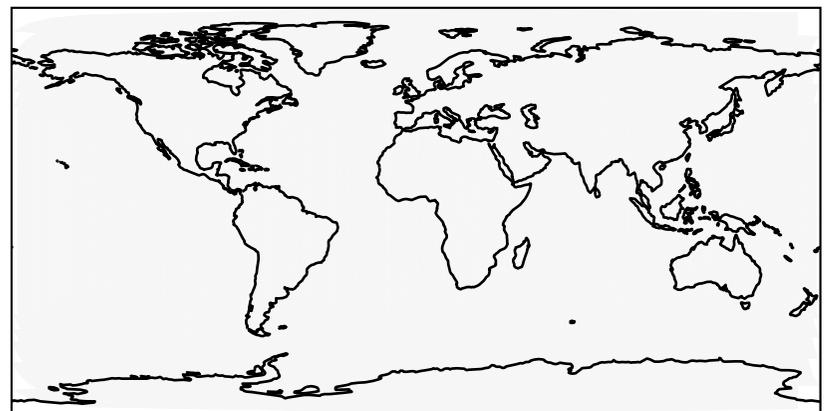
GCHP_13.2.0-LuoWetdep (Dev)
c48



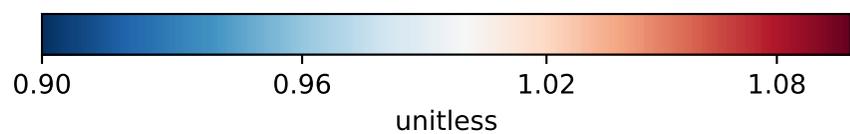
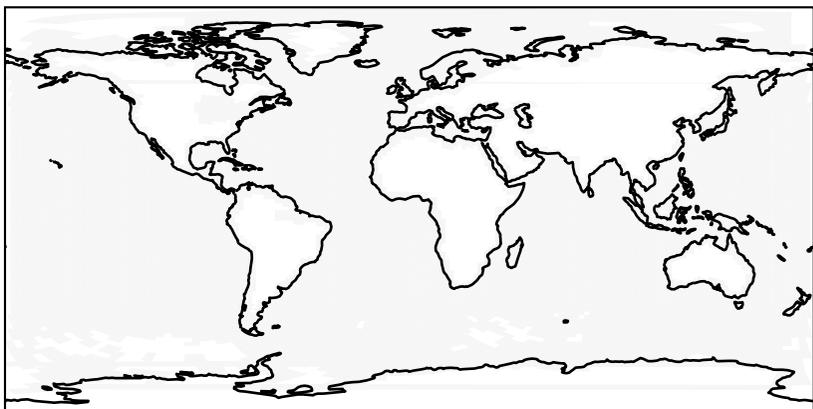
Difference
Dev - Ref, Dynamic Range



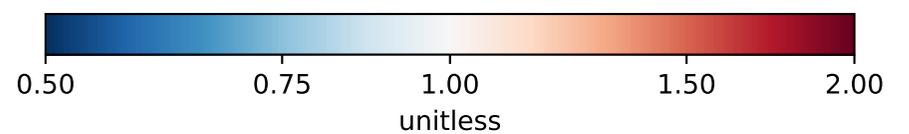
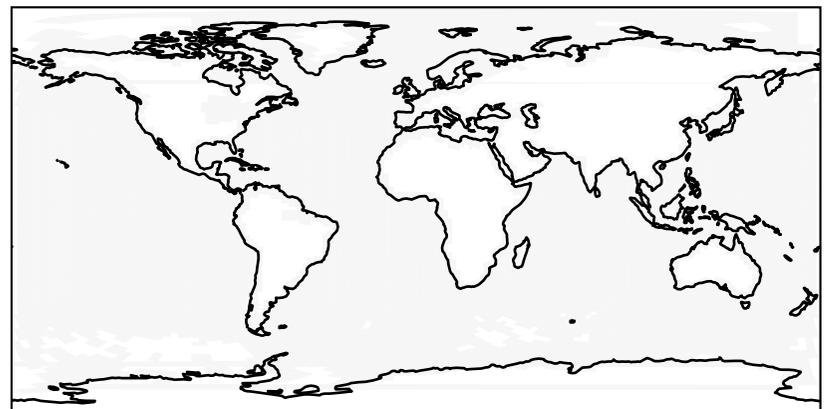
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

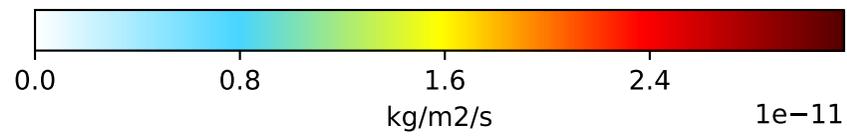
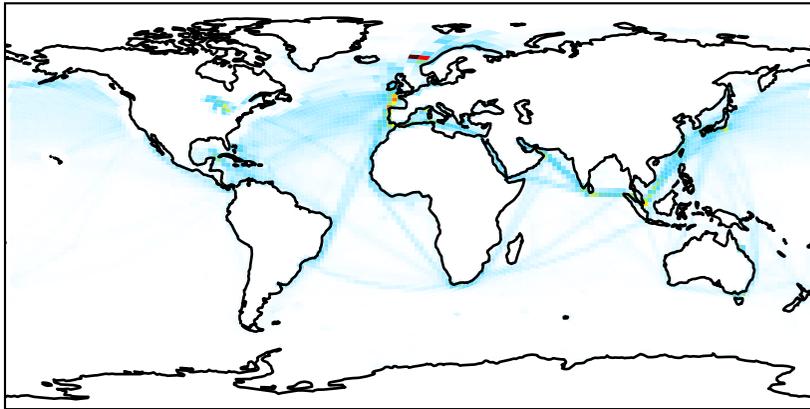


Ratio
Dev/Ref, Fixed Range

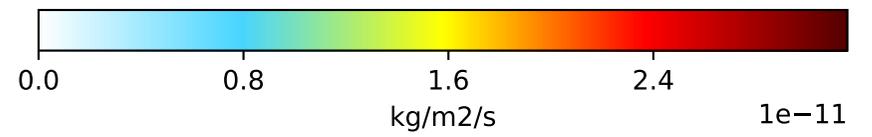
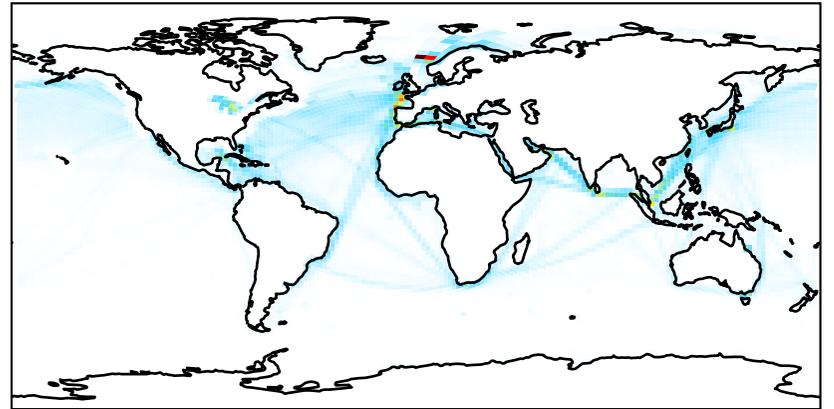


EmisSO2_Ship (Apr2019)

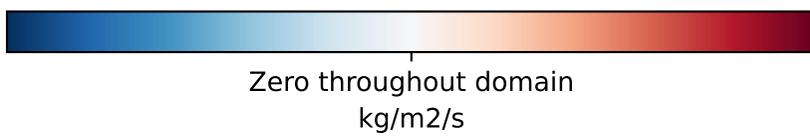
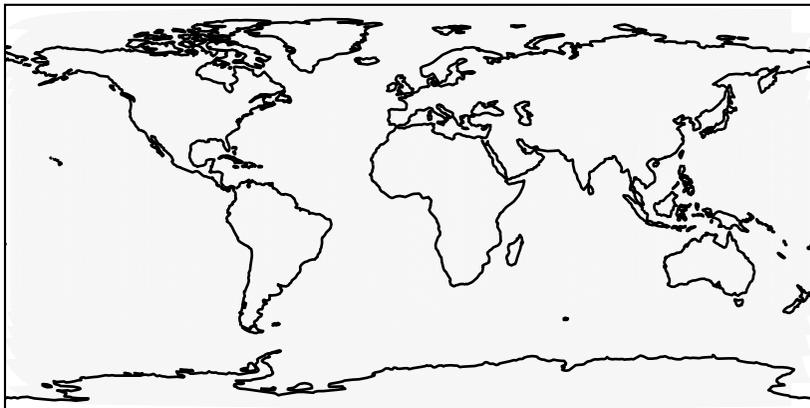
GCHP_13.2.0 (Ref)
c48



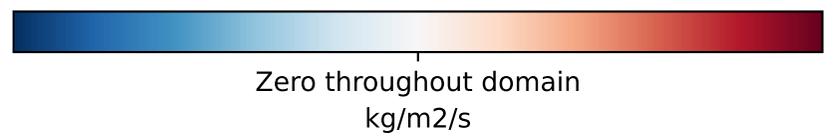
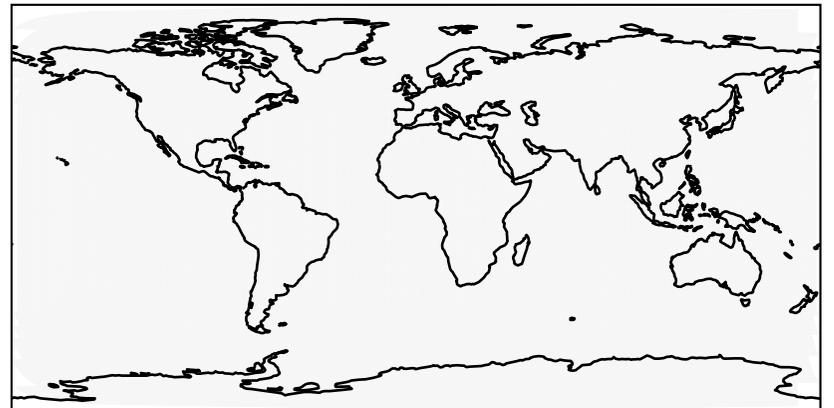
GCHP_13.2.0-LuoWetdep (Dev)
c48



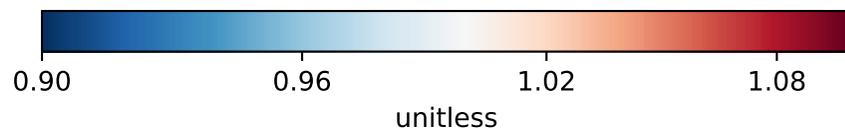
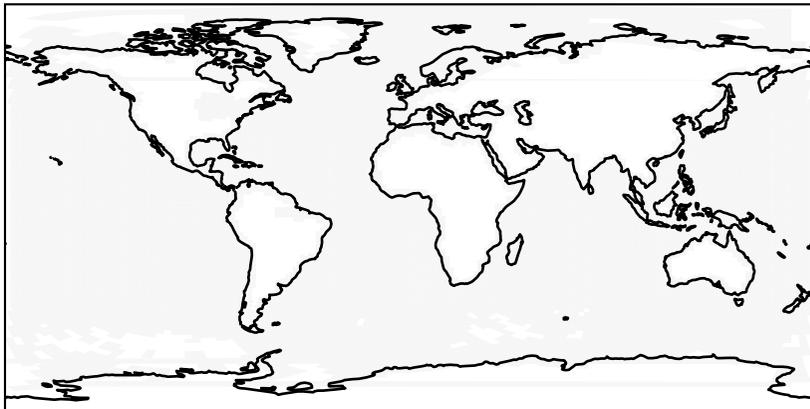
Difference
Dev - Ref, Dynamic Range



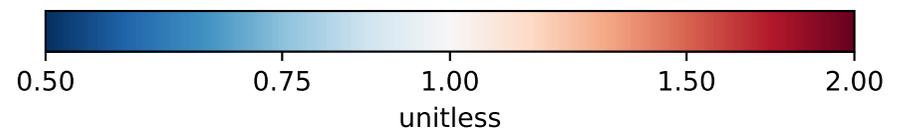
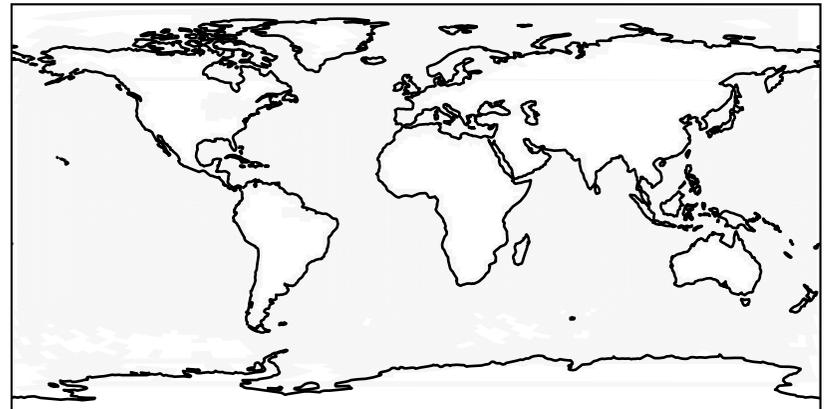
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

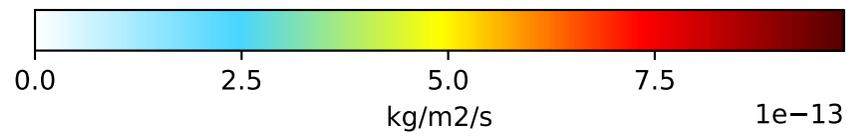
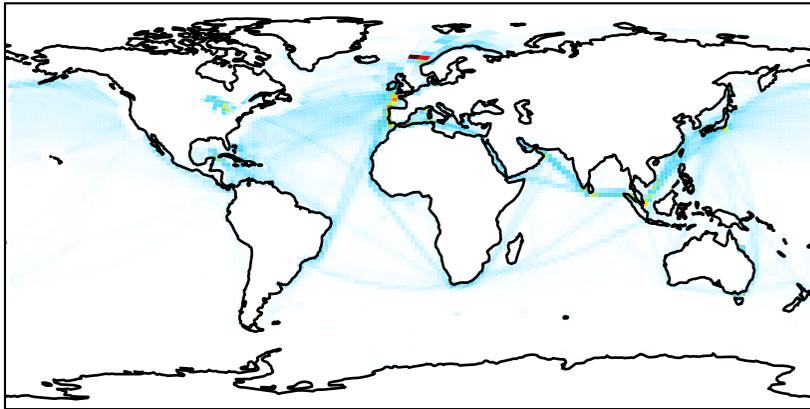


Ratio
Dev/Ref, Fixed Range

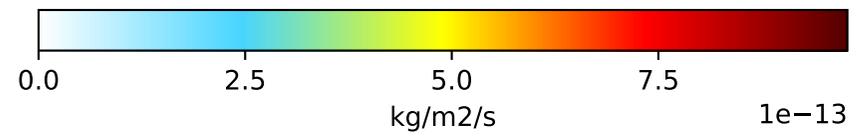
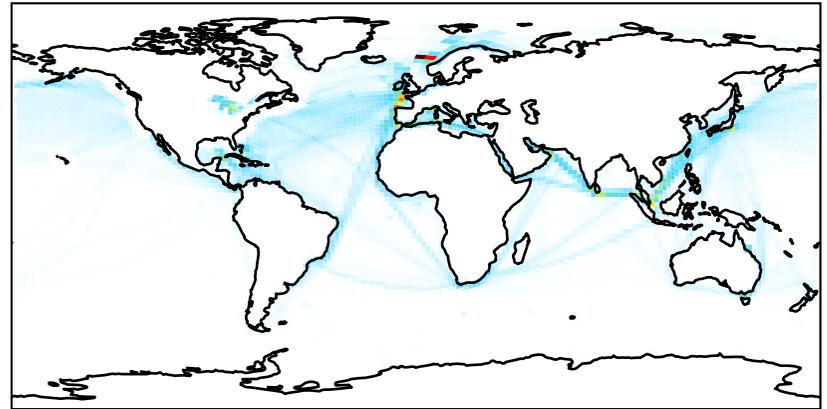


EmisSO4_Ship (Apr2019)

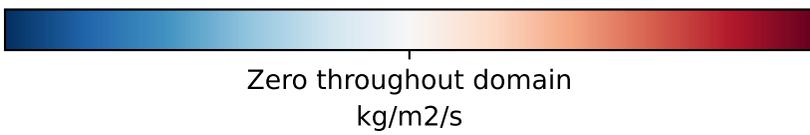
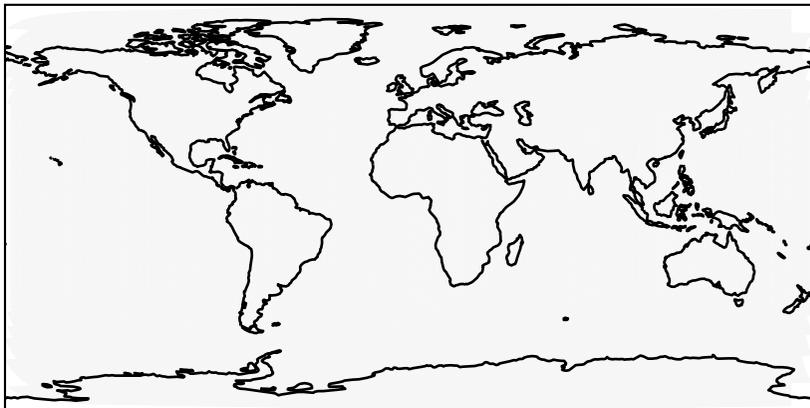
GCHP_13.2.0 (Ref)
c48



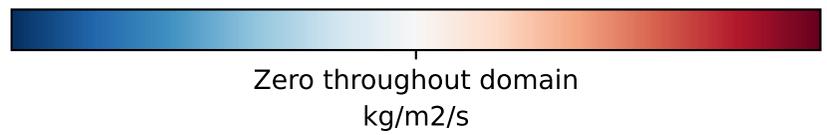
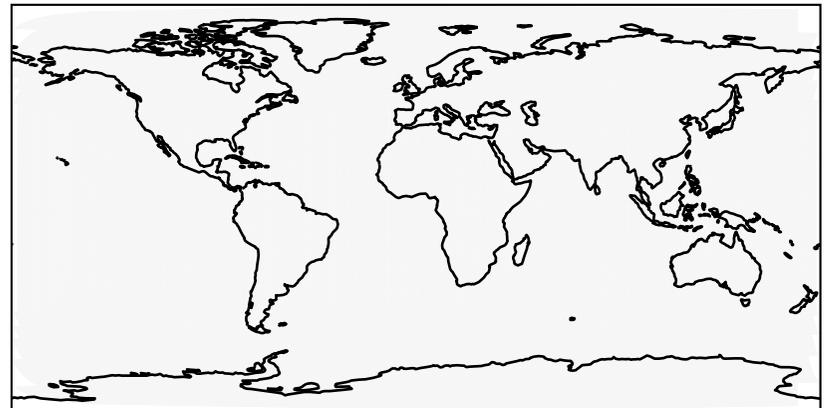
GCHP_13.2.0-LuoWetdep (Dev)
c48



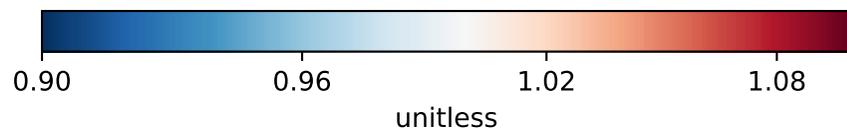
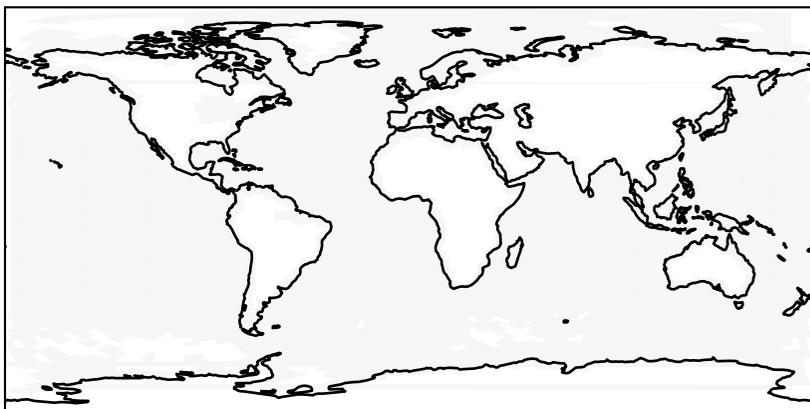
Difference
Dev - Ref, Dynamic Range



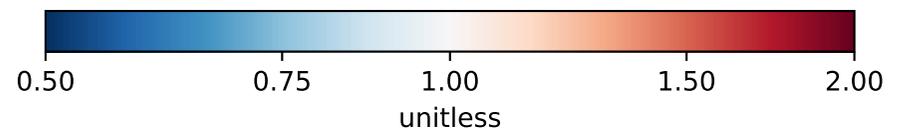
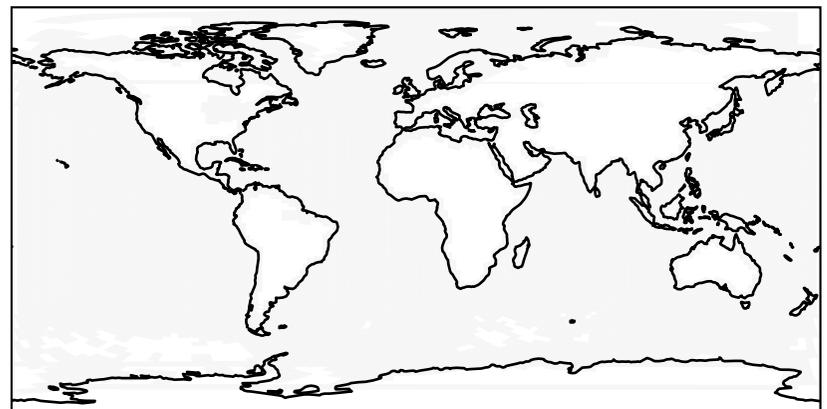
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

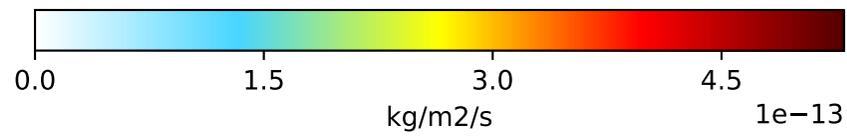
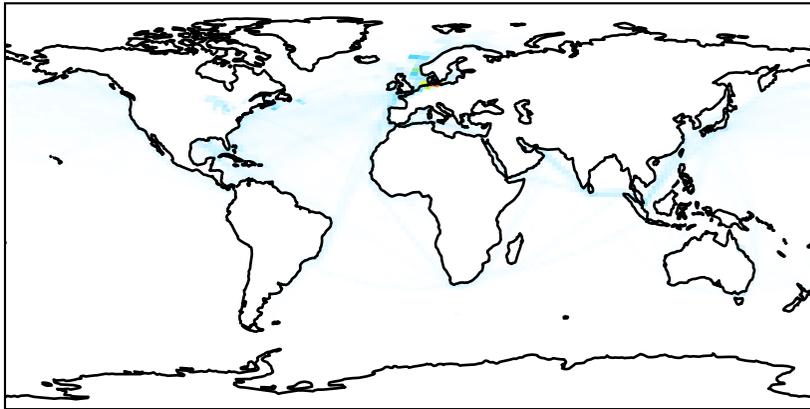


Ratio
Dev/Ref, Fixed Range

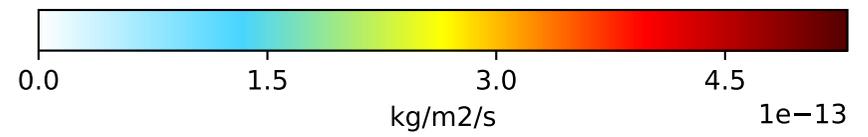
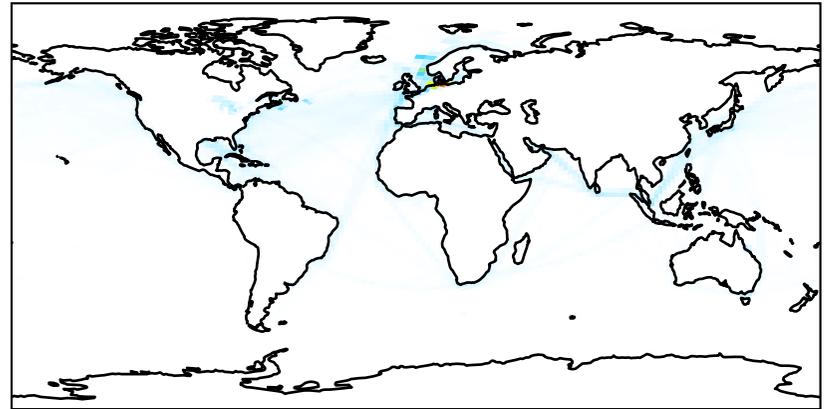


EmisSOAP_Ship (Apr2019)

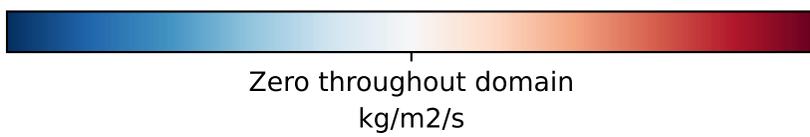
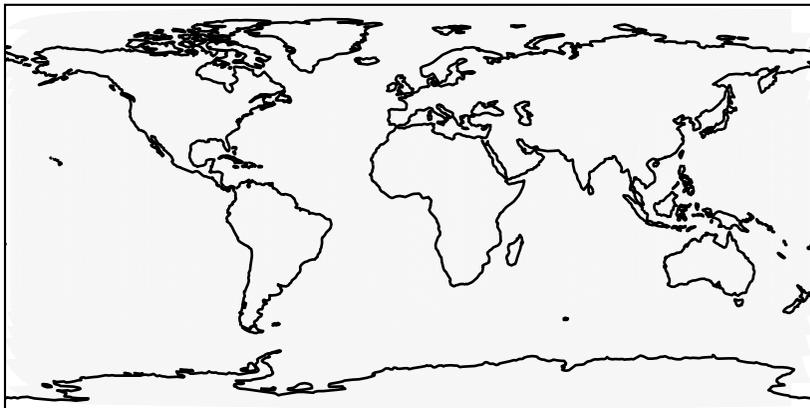
GCHP_13.2.0 (Ref)
c48



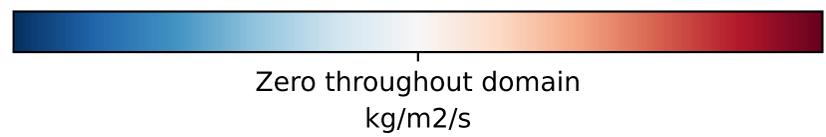
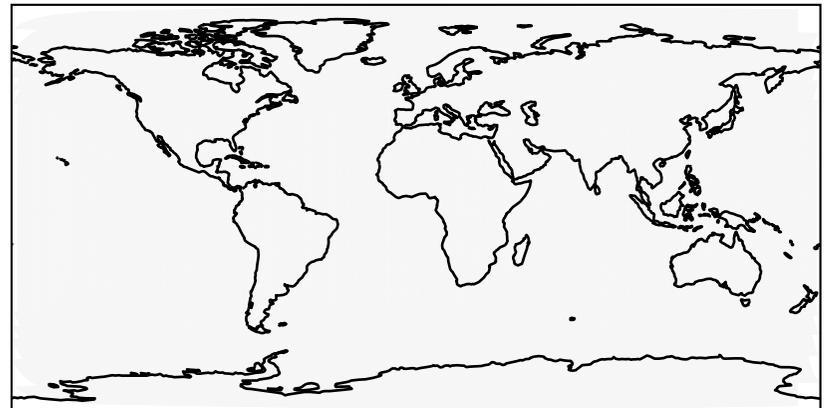
GCHP_13.2.0-LuoWetdep (Dev)
c48



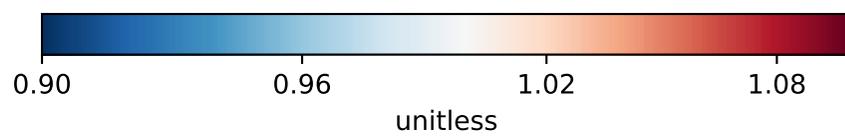
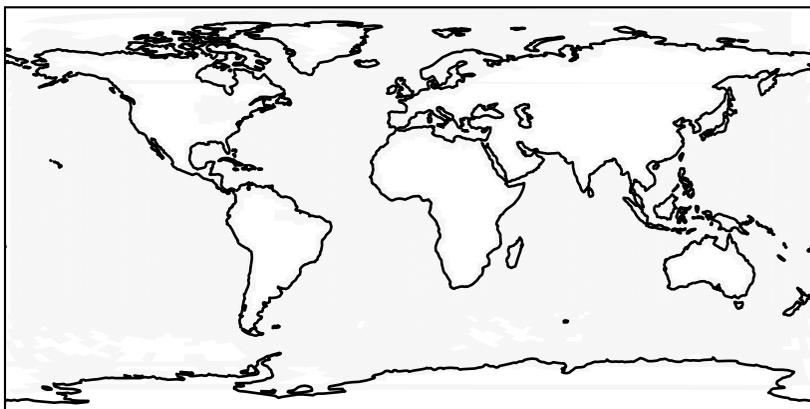
Difference
Dev - Ref, Dynamic Range



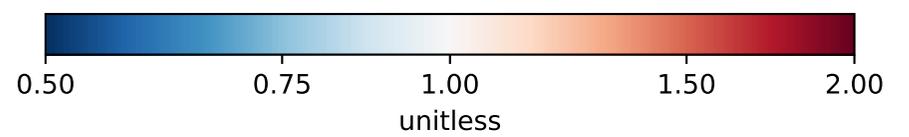
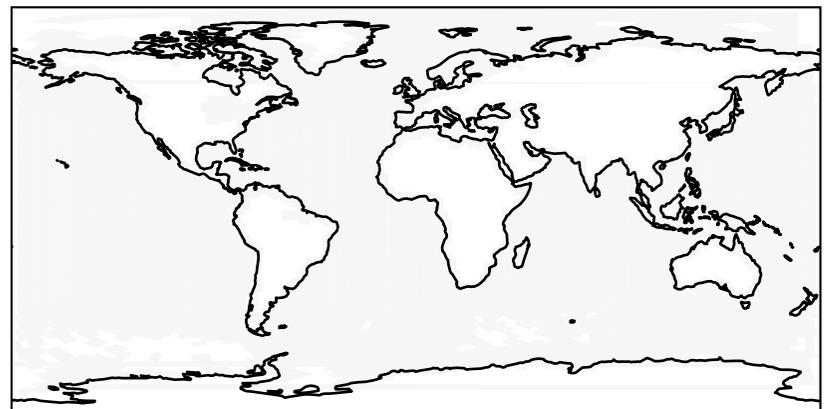
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

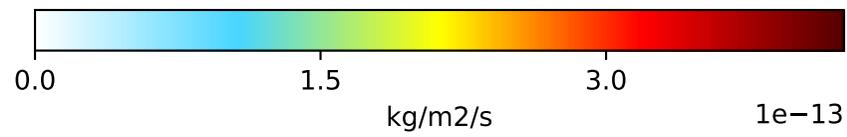
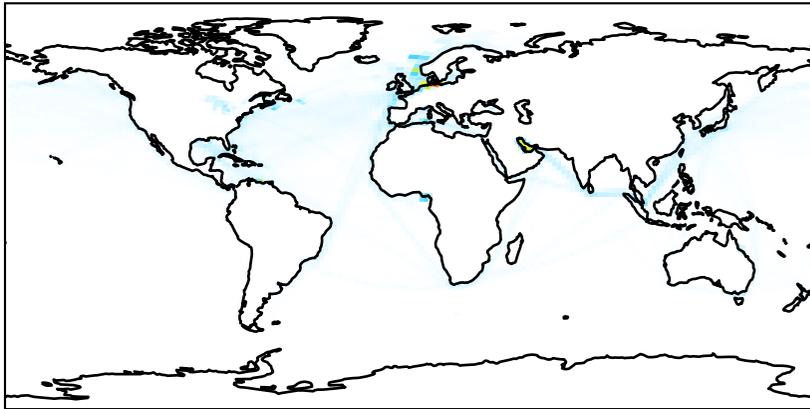


Ratio
Dev/Ref, Fixed Range

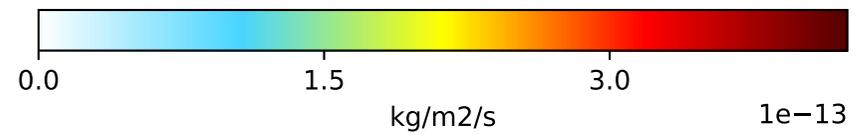
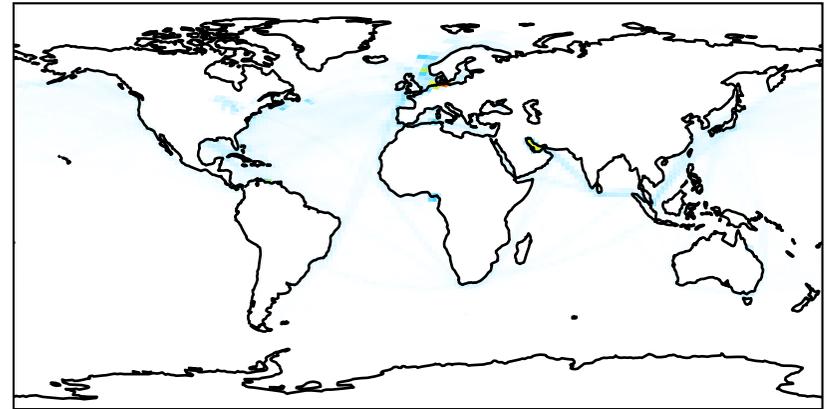


EmisTOLU_Ship (Apr2019)

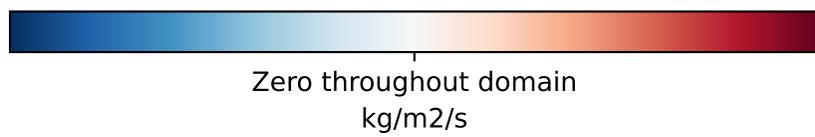
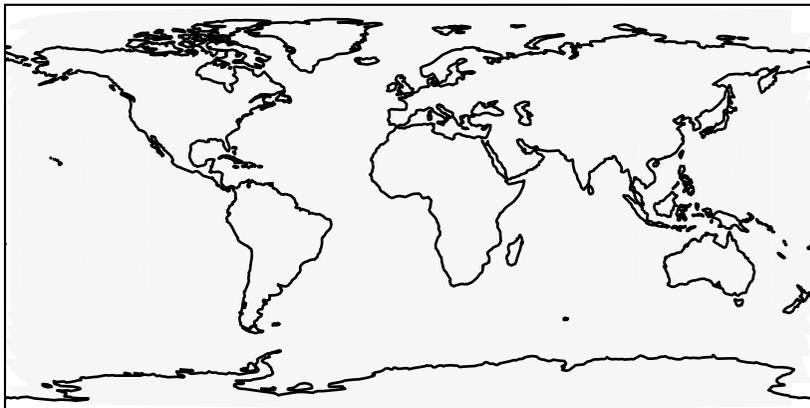
GCHP_13.2.0 (Ref)
c48



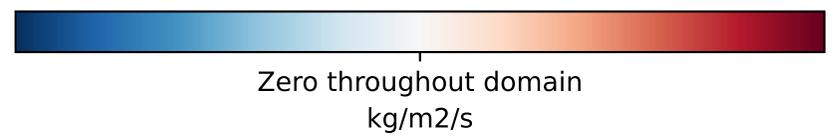
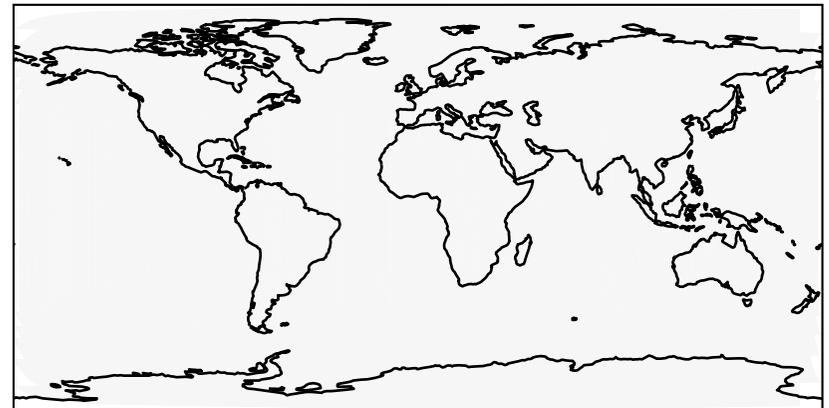
GCHP_13.2.0-LuoWetdep (Dev)
c48



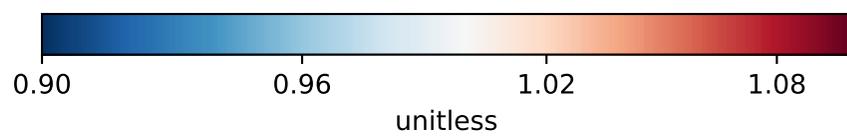
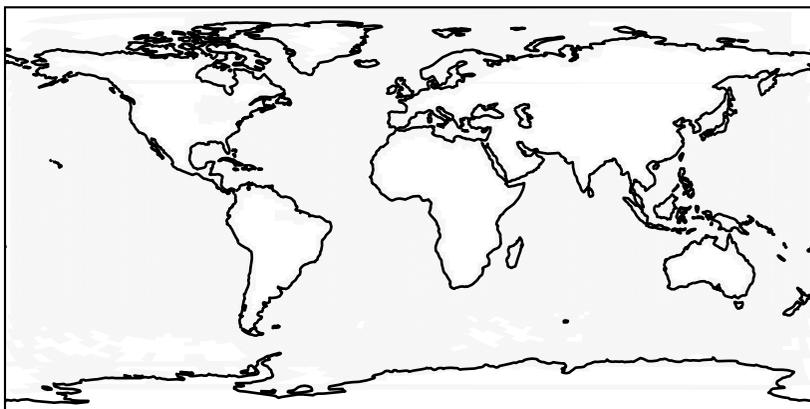
Difference
Dev - Ref, Dynamic Range



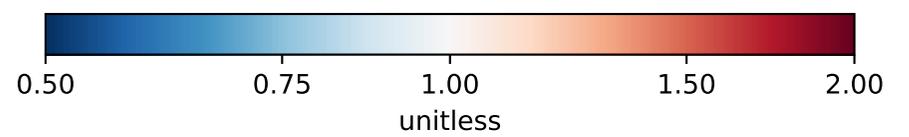
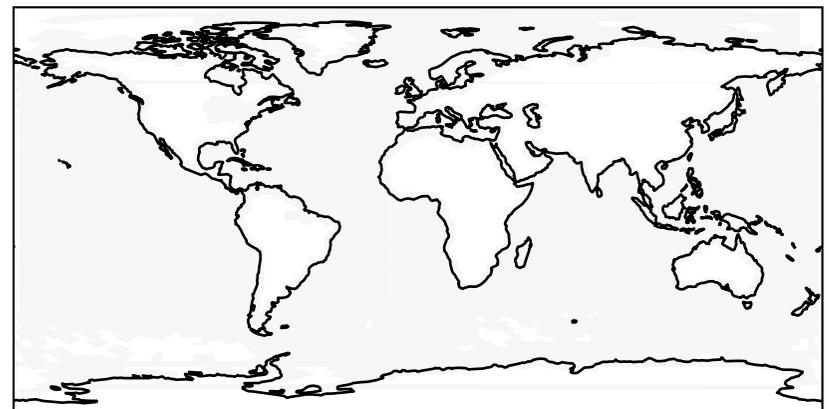
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

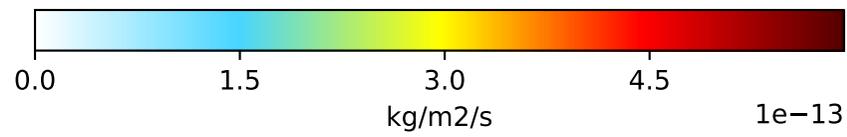
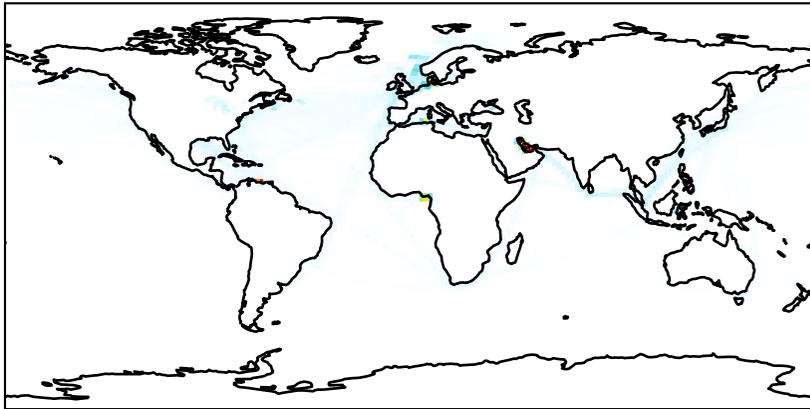


Ratio
Dev/Ref, Fixed Range

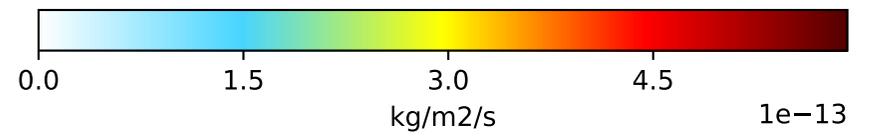
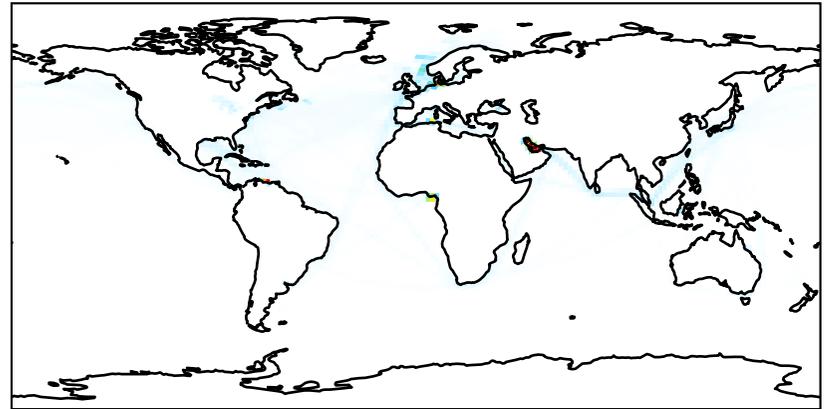


EmisXYLE_Ship (Apr2019)

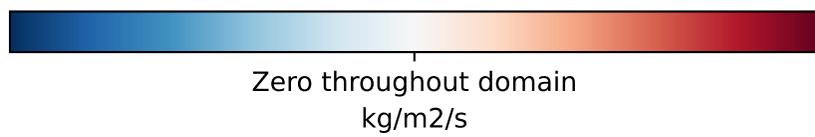
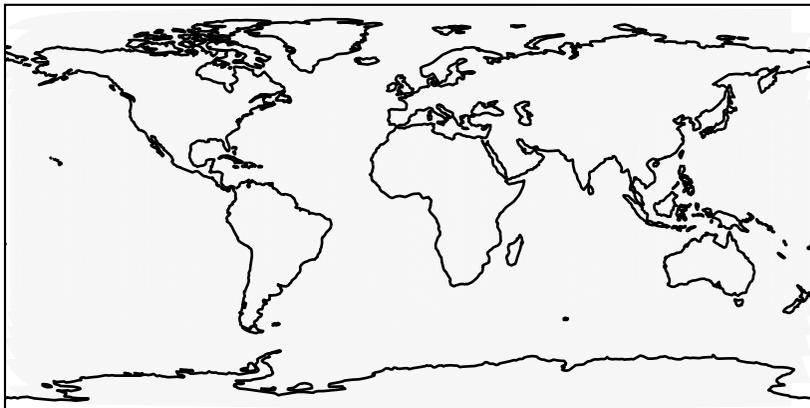
GCHP_13.2.0 (Ref)
c48



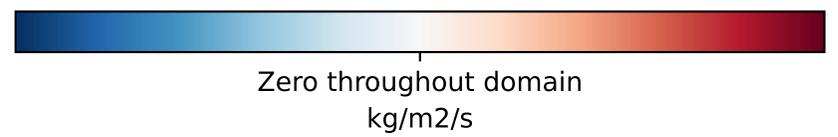
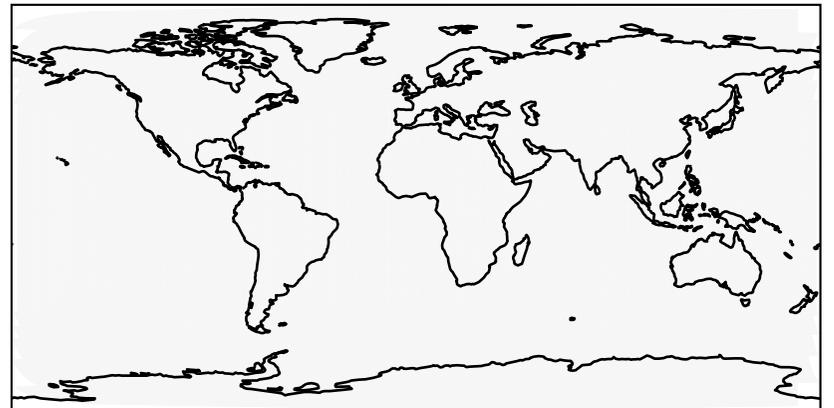
GCHP_13.2.0-LuoWetdep (Dev)
c48



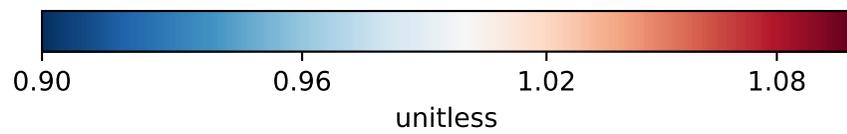
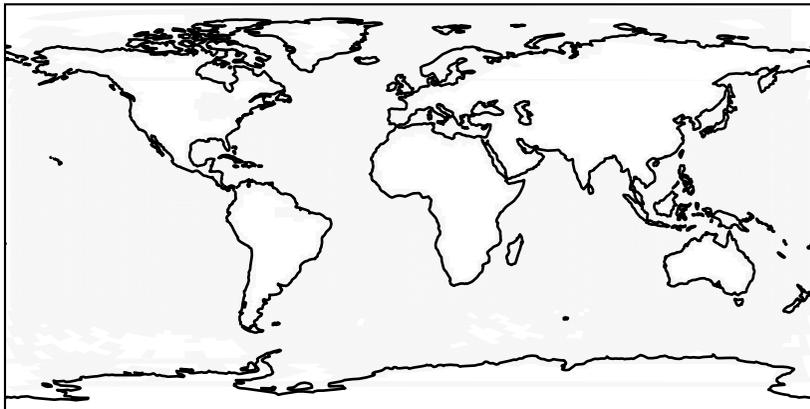
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

