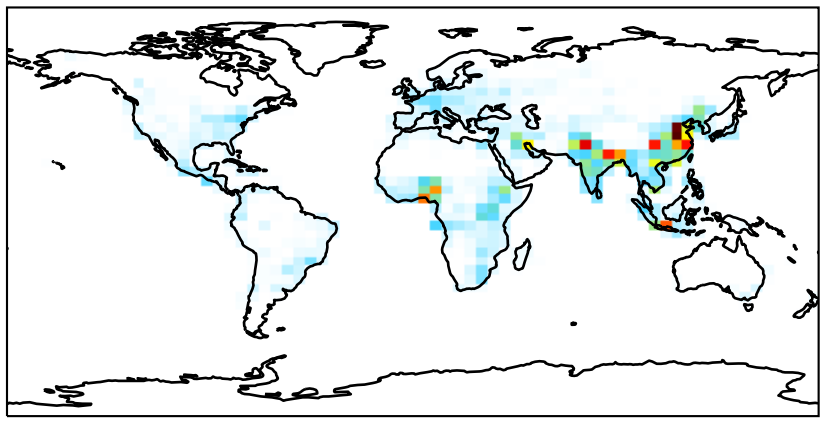
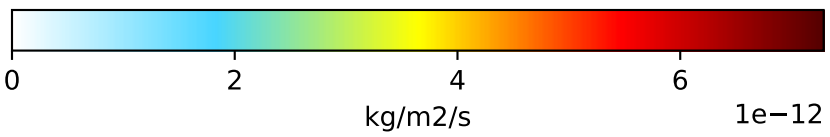
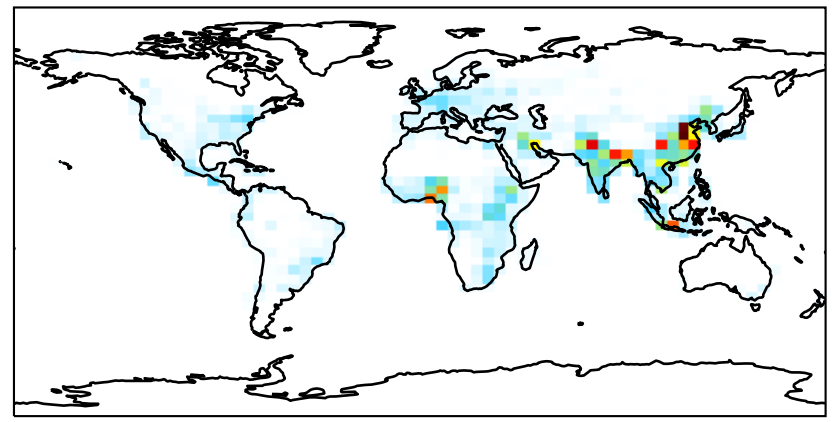
EmisEOH_Anthro

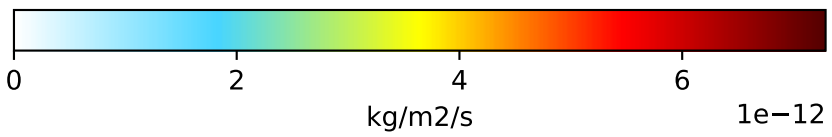
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



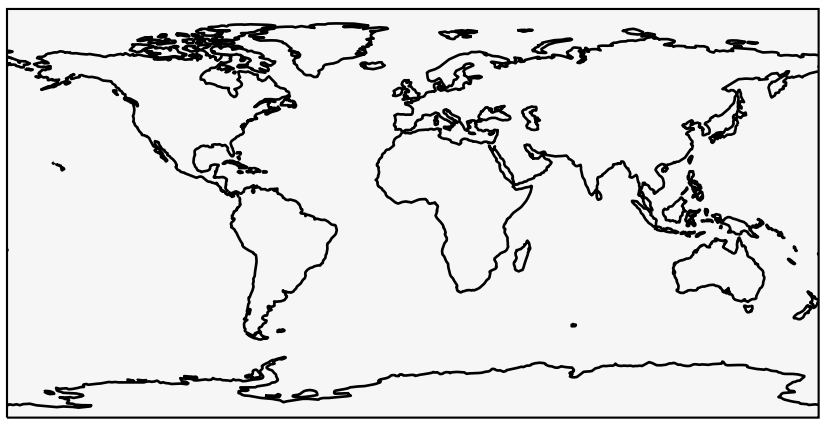


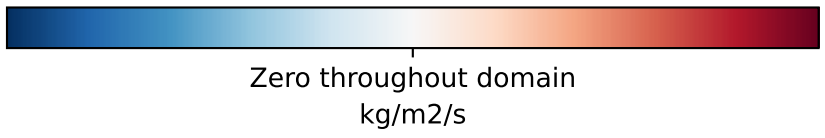
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



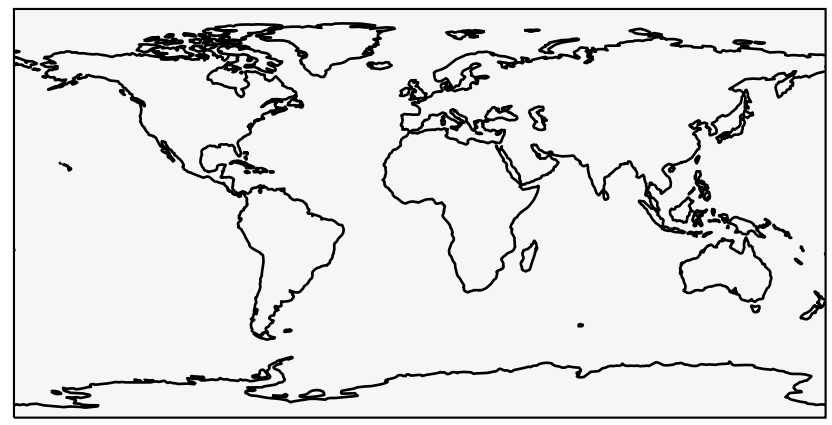


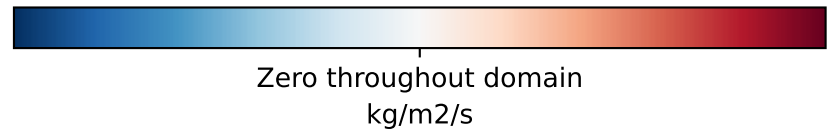
Difference
Dev - Ref, Dynamic Range



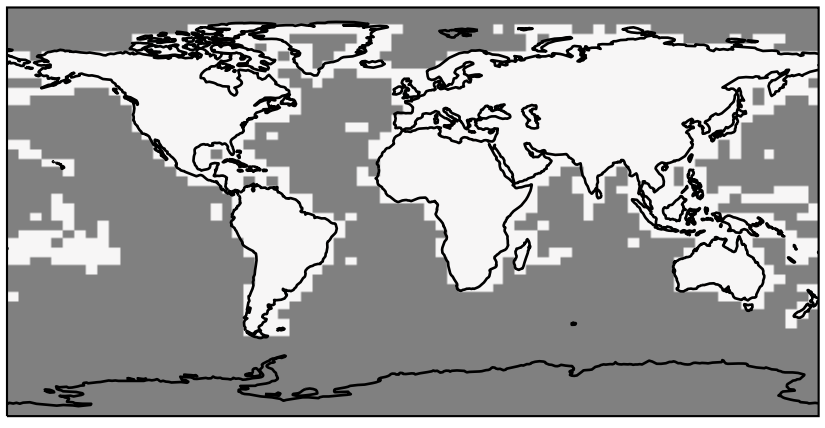


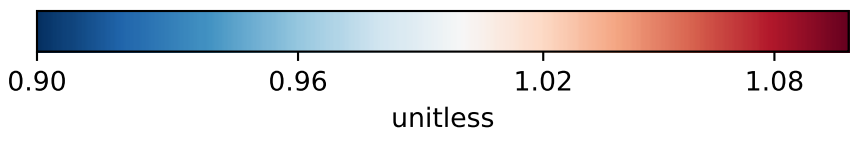
Difference
Dev - Ref, Restricted Range [5%,95%]



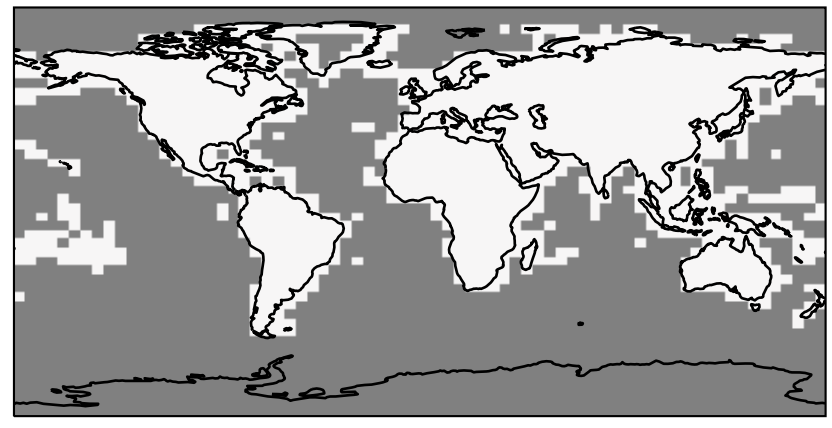


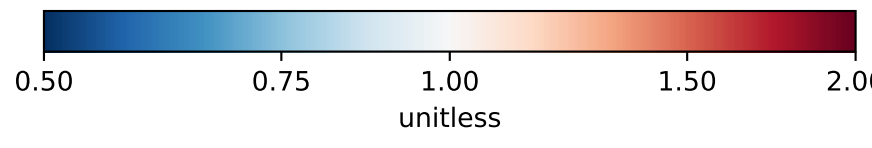
Ratio
Dev/Ref, Dynamic Range





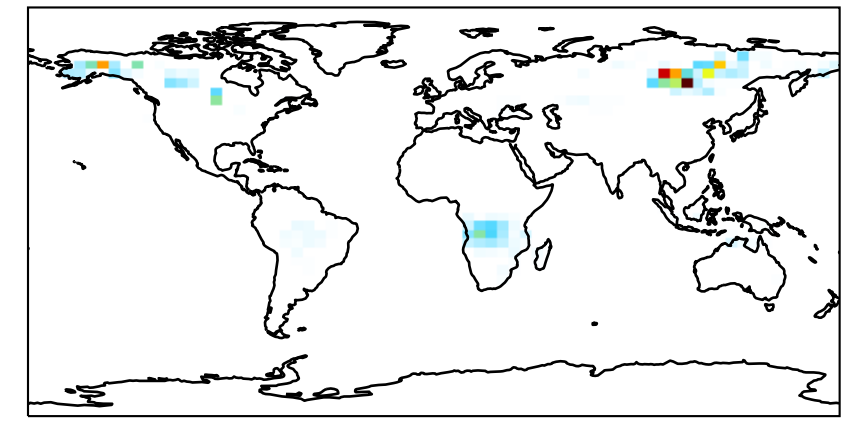
Ratio
Dev/Ref, Fixed Range

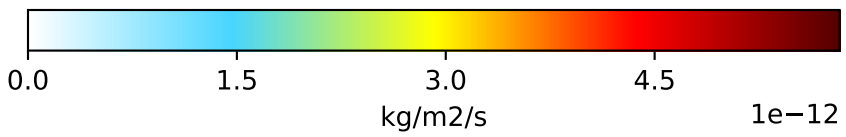




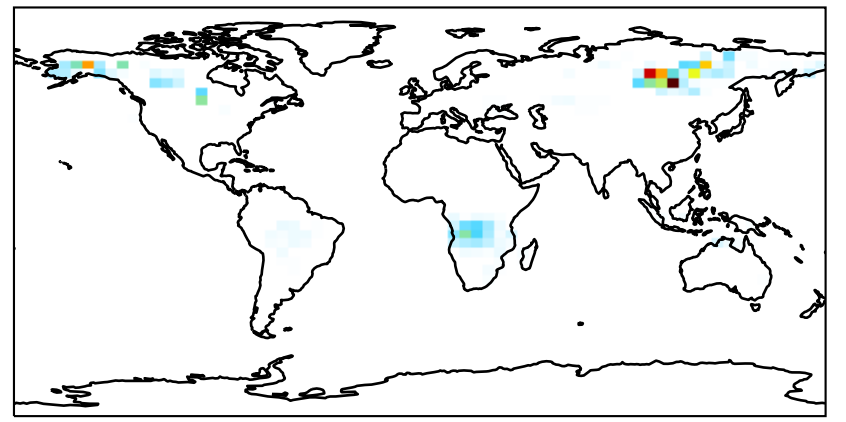
EmisEOH_BioBurn

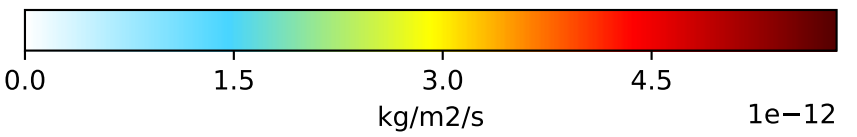
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



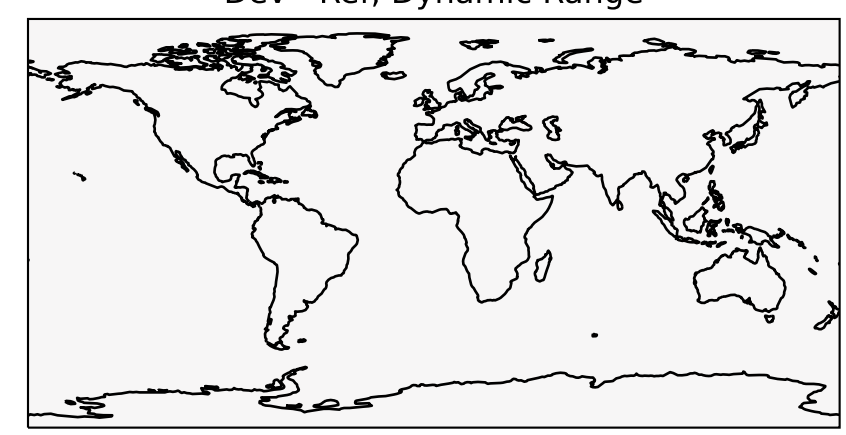


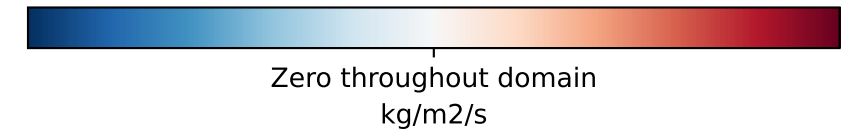
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



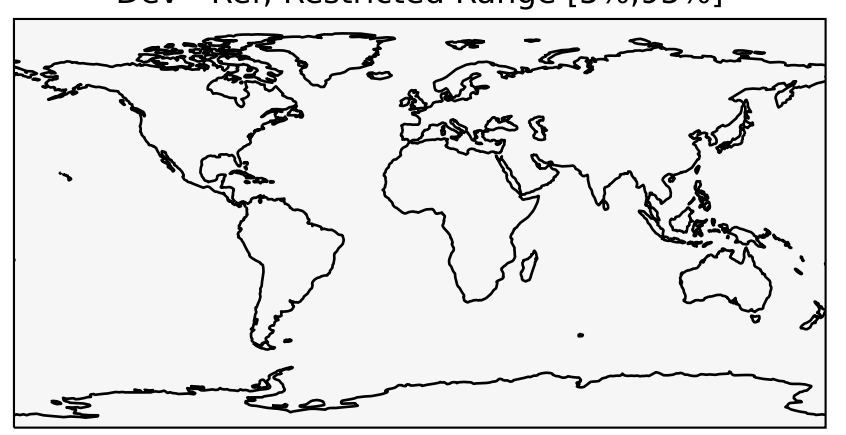


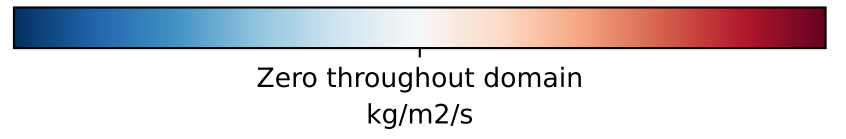
Difference
Dev - Ref, Dynamic Range



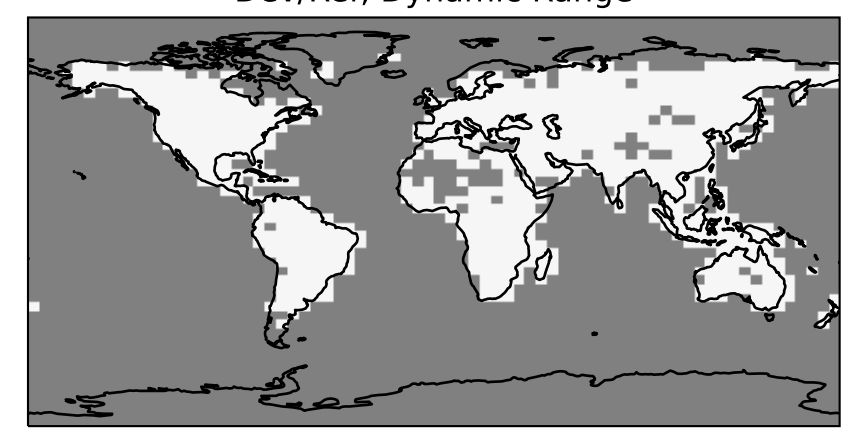


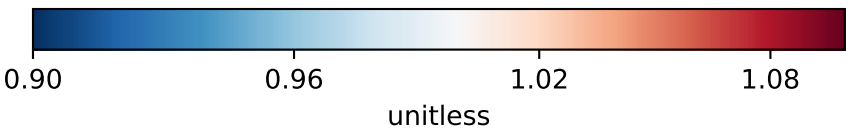
Difference
Dev - Ref, Restricted Range [5%,95%]



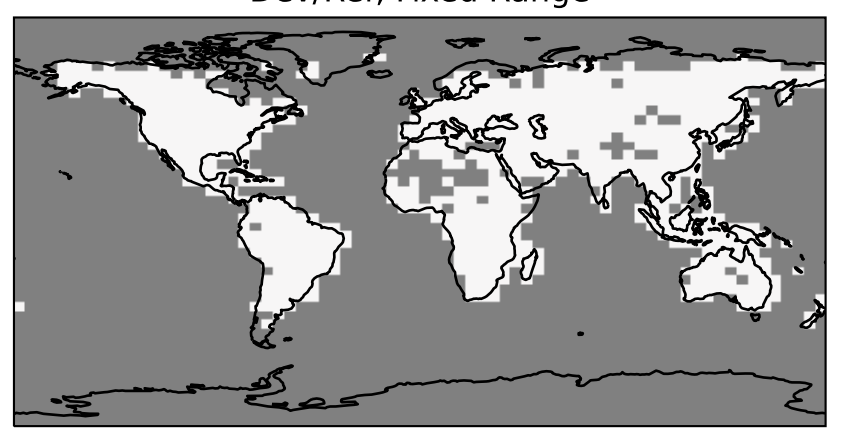


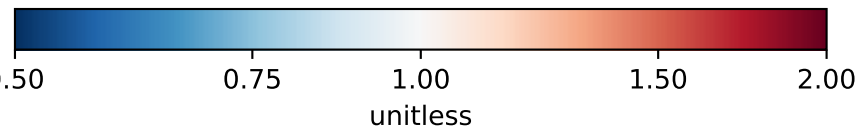
Ratio
Dev/Ref, Dynamic Range





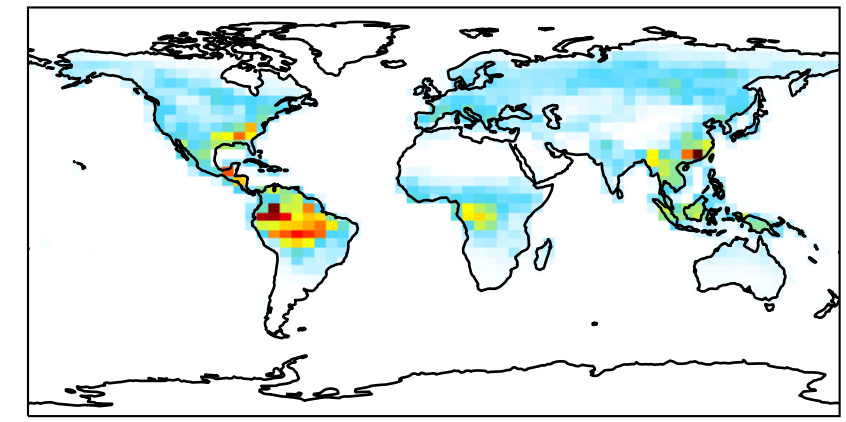
Ratio
Dev/Ref, Fixed Range



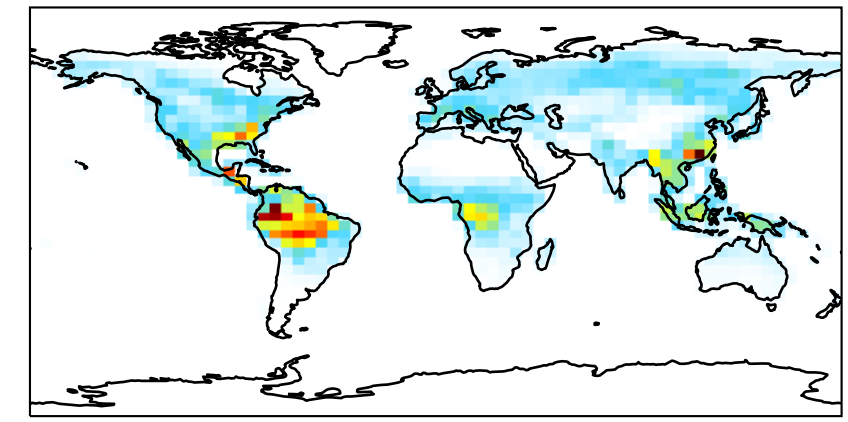


EmisEOH_Biogenic

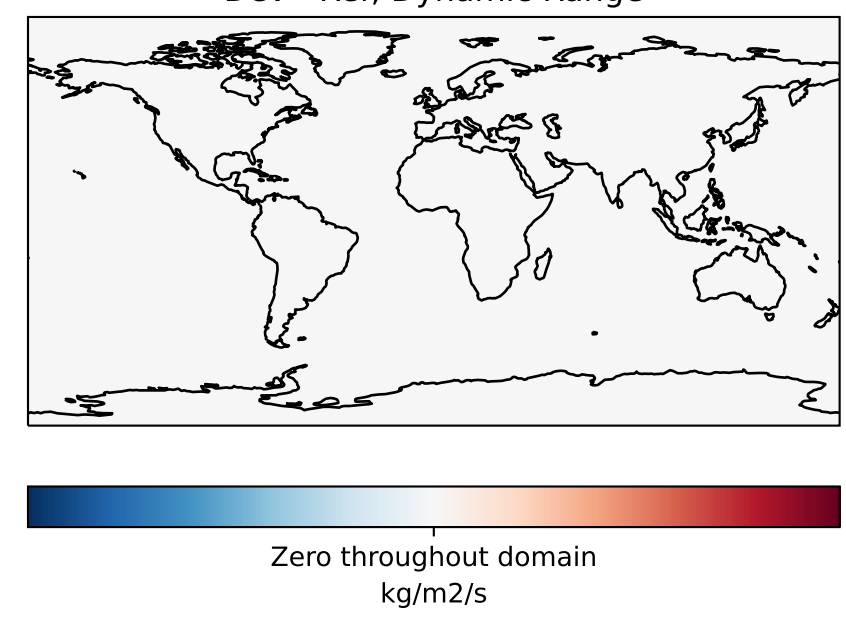
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



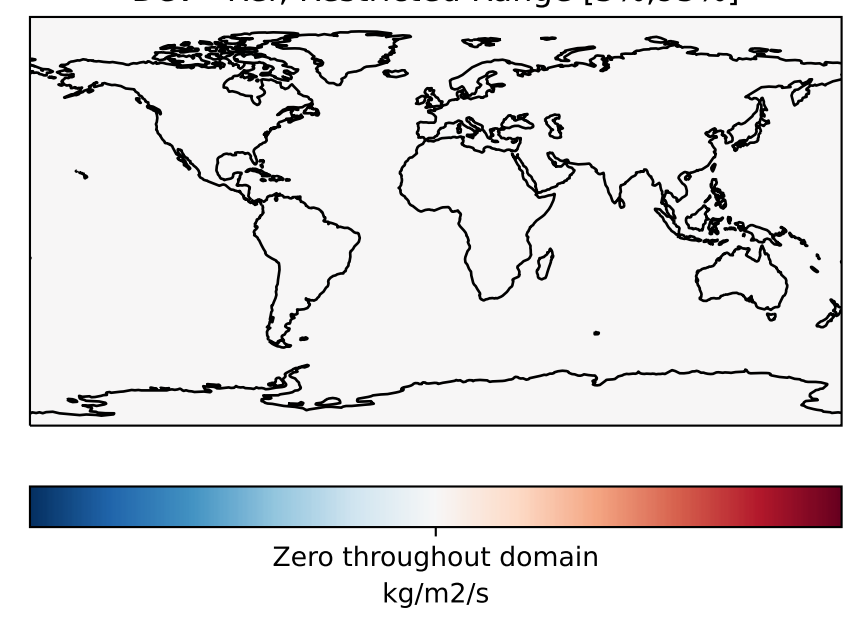
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



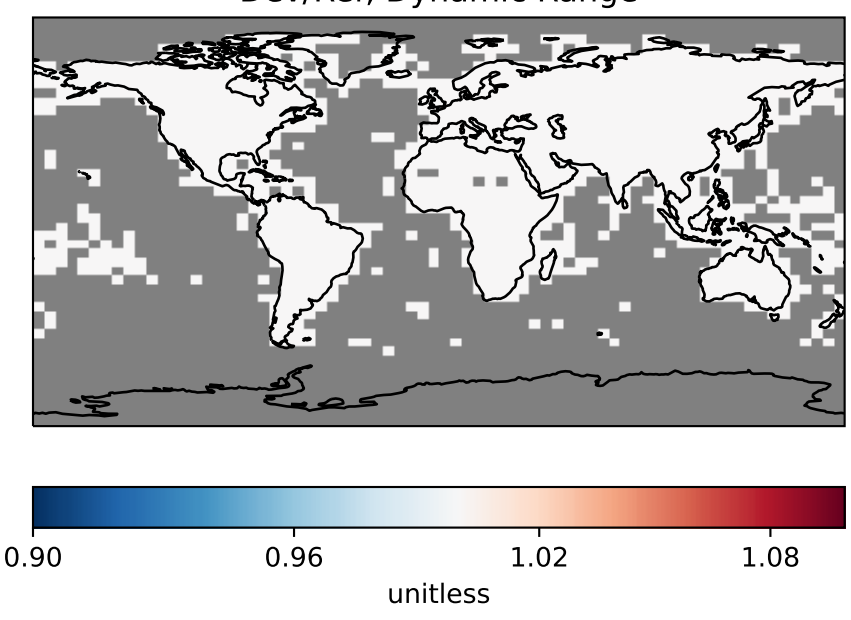
Difference
Dev - Ref, Dynamic Range



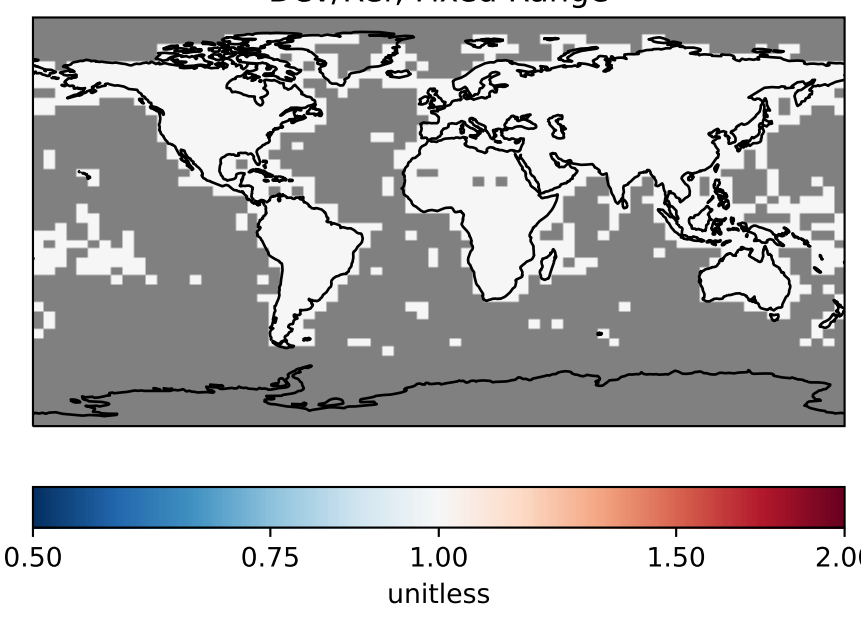
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

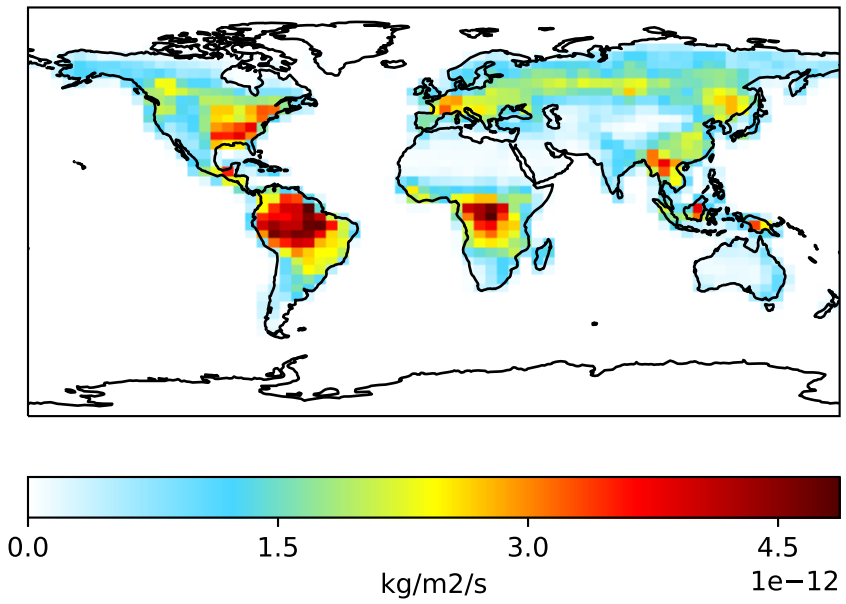


Ratio
Dev/Ref, Fixed Range

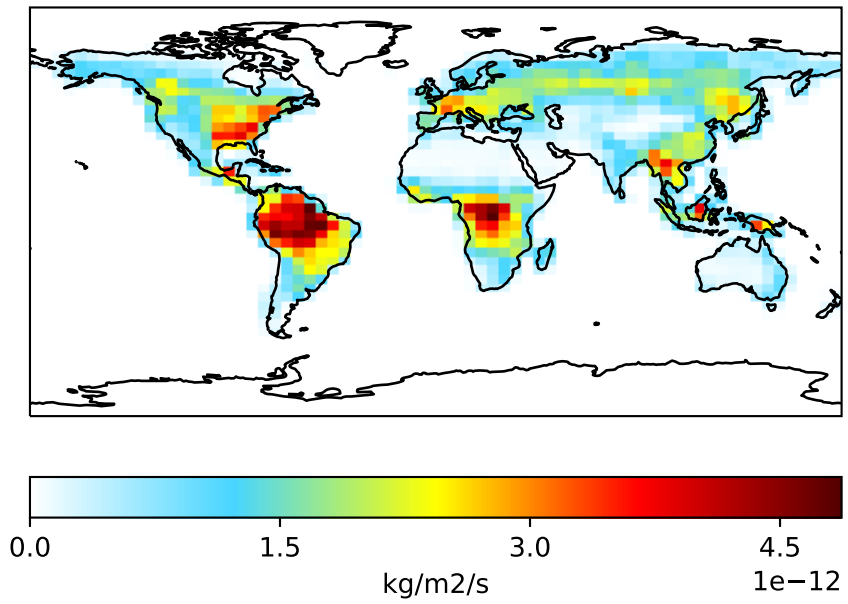


EmisEOH_PlantDecay

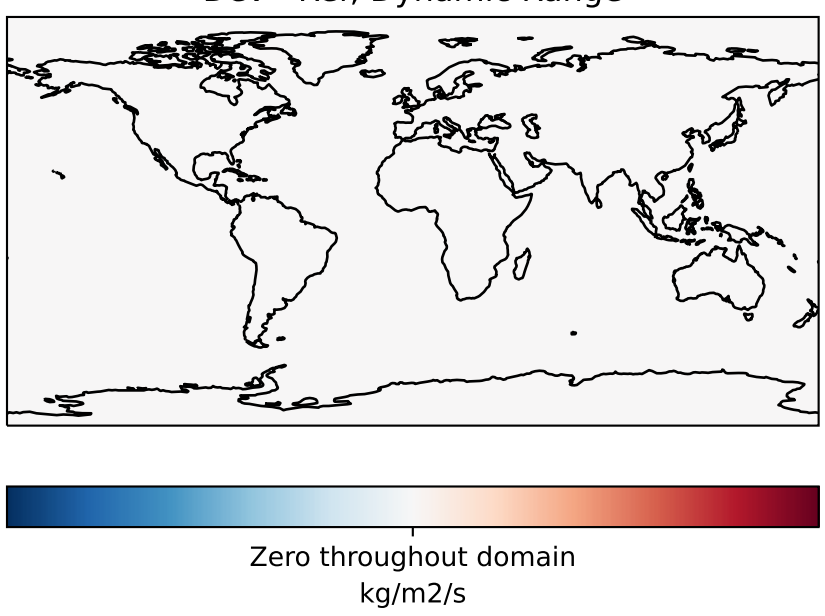
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



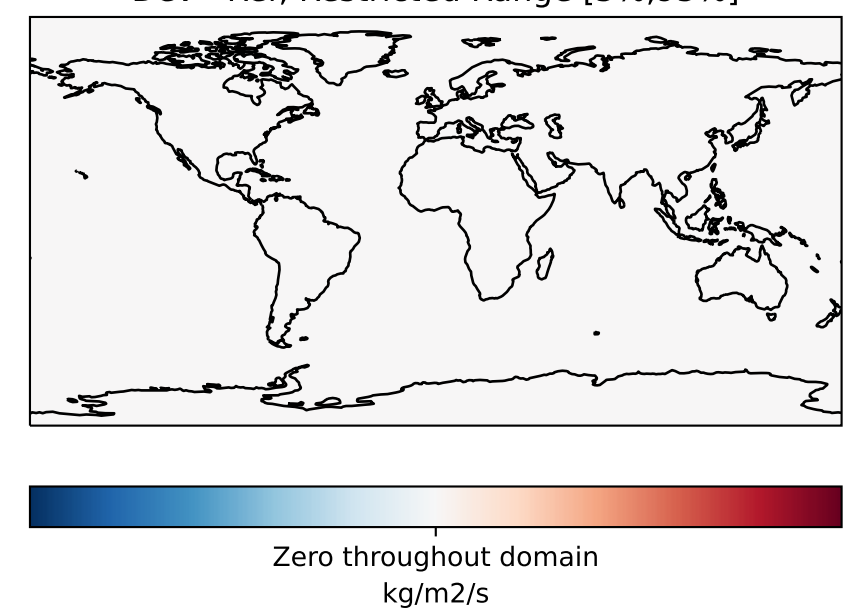
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



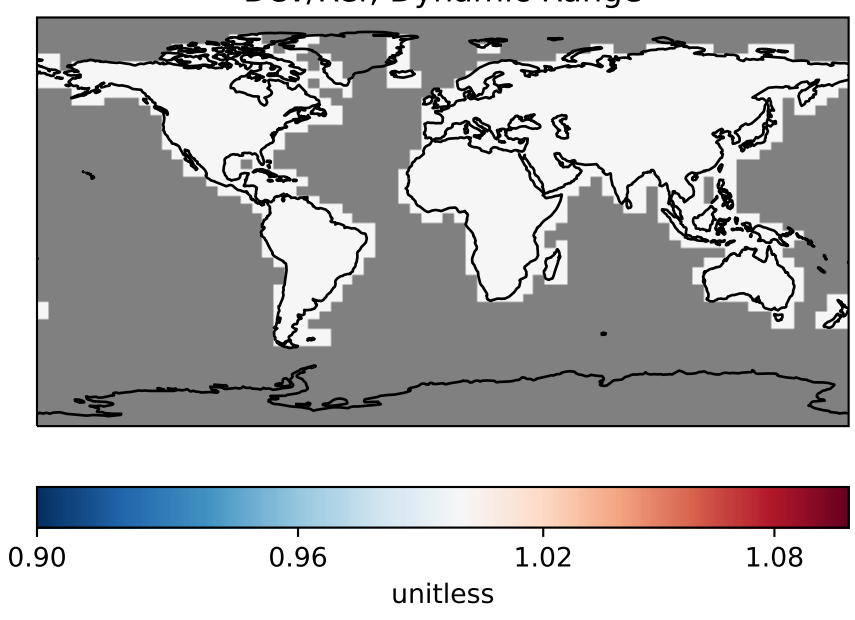
Difference
Dev - Ref, Dynamic Range



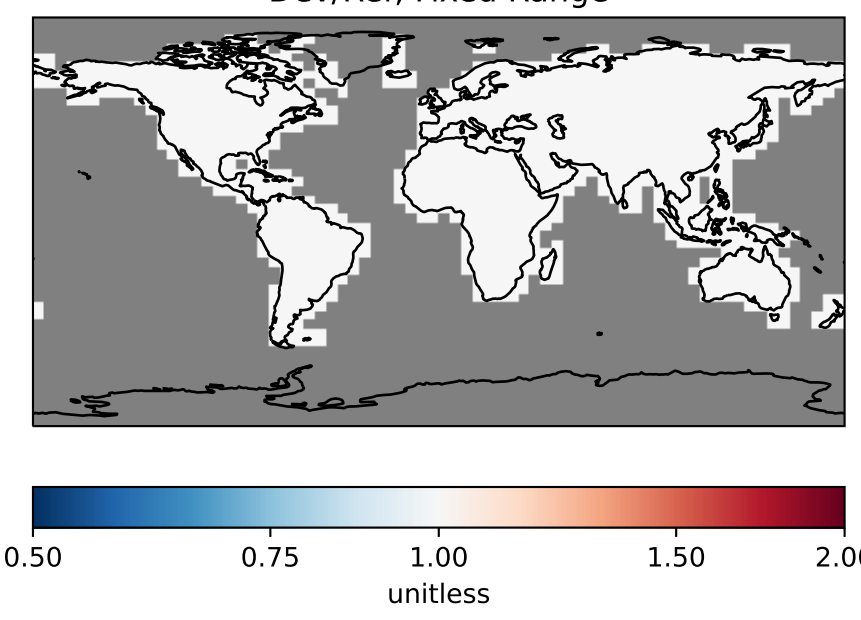
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

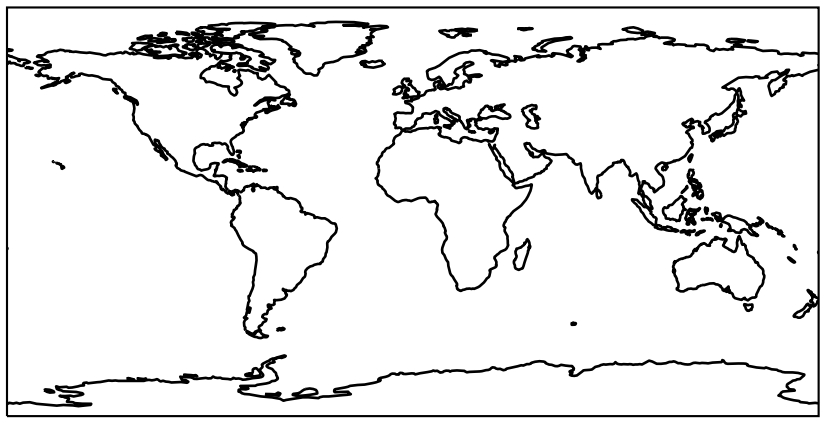


Ratio
Dev/Ref, Fixed Range



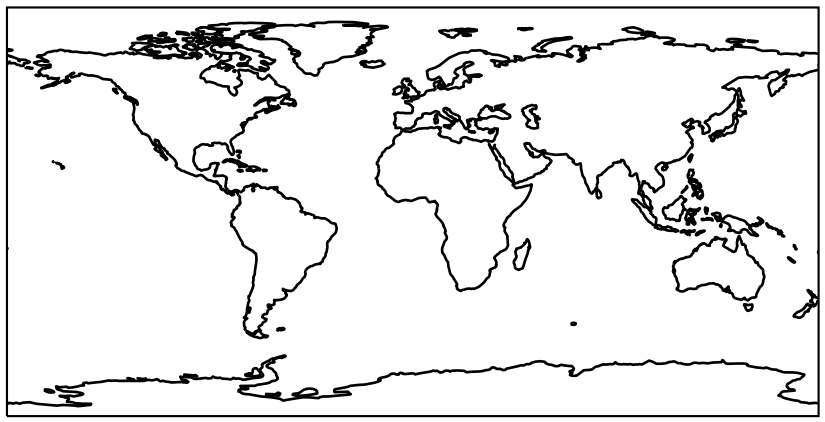
EmisEOH_Ship

GCC_13.3.0-rc.1 (Ref)
4.0x5.0



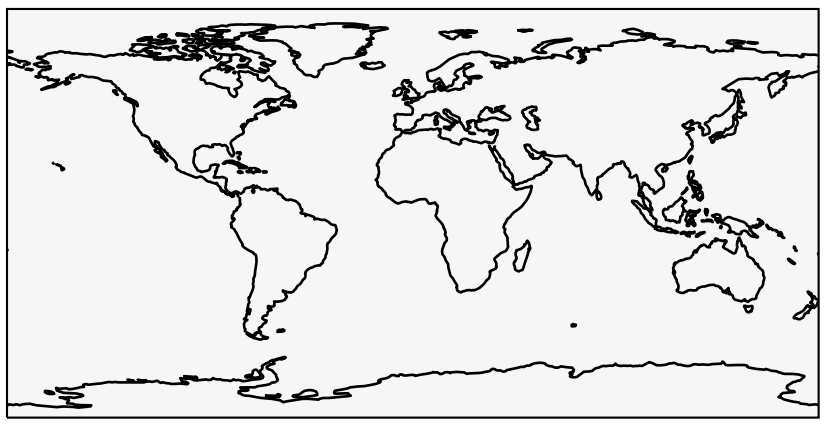
Zero throughout domain
kg/m2/s

GCC_13.4.0-rc.3 (Dev)
4.0x5.0



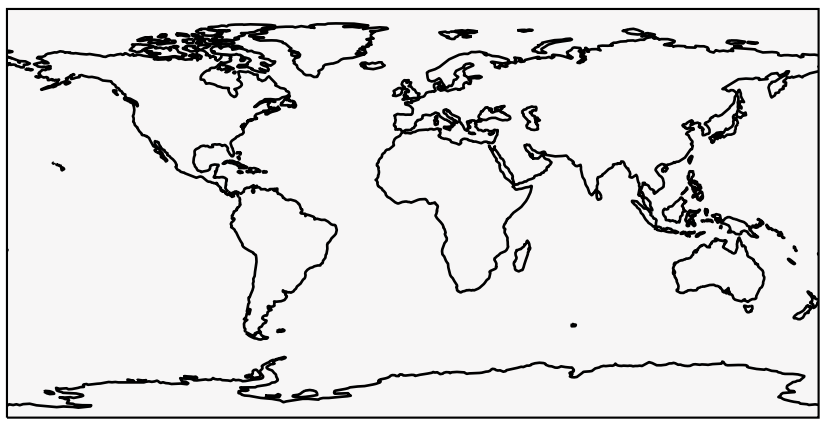
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



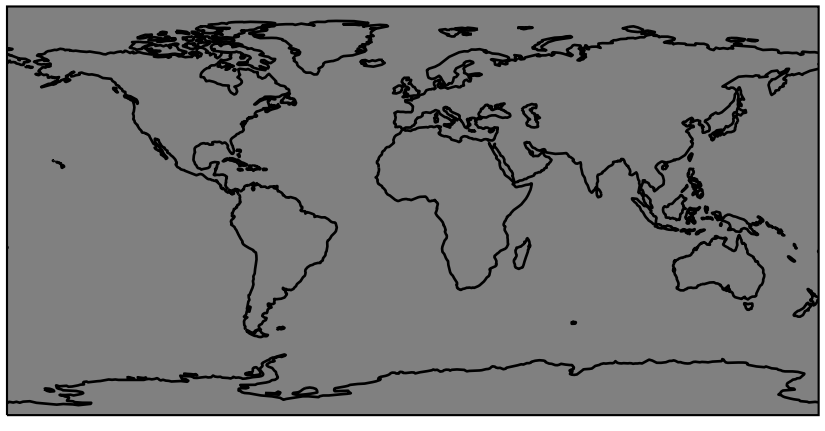
Zero throughout domain
kg/m2/s

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



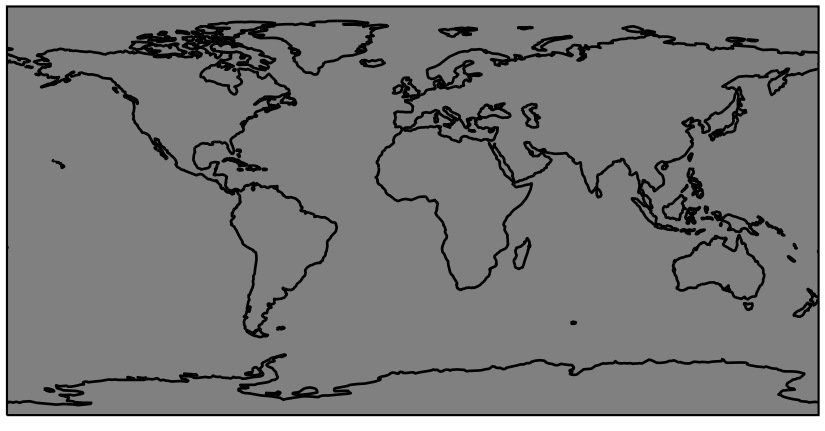
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

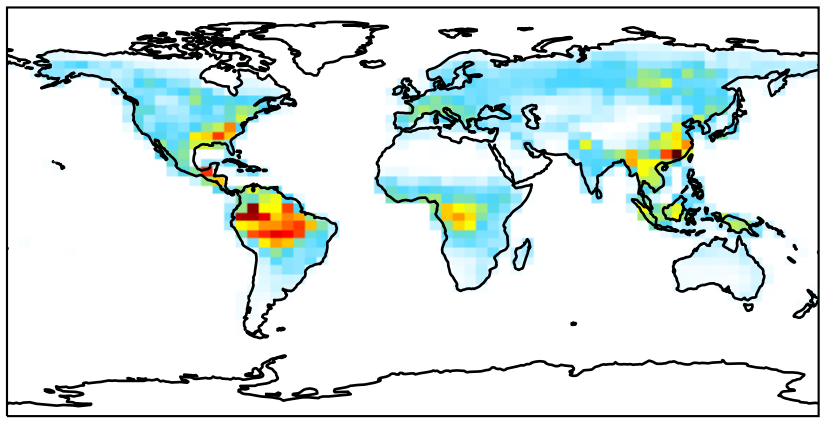
Ratio
Dev/Ref, Fixed Range

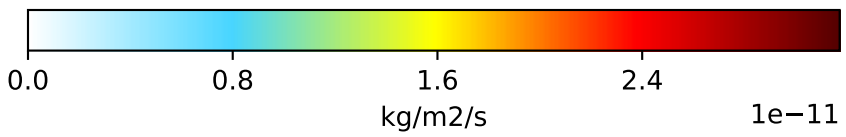


Undefined throughout domain
unitless

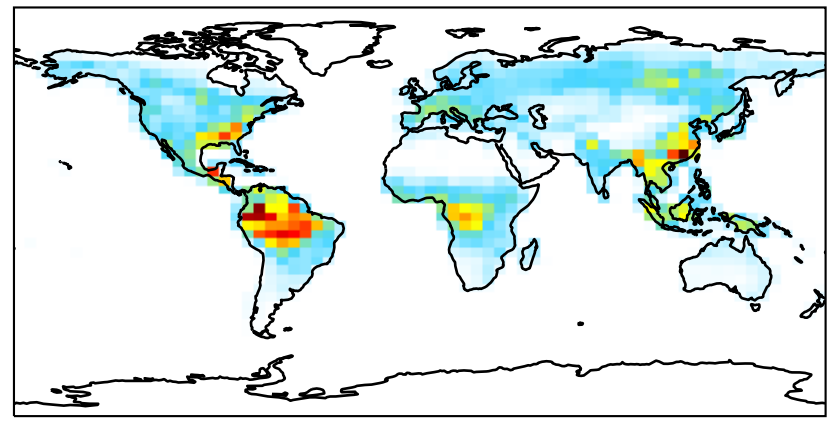
EmisEOH_Total

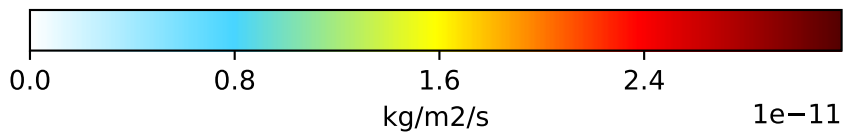
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



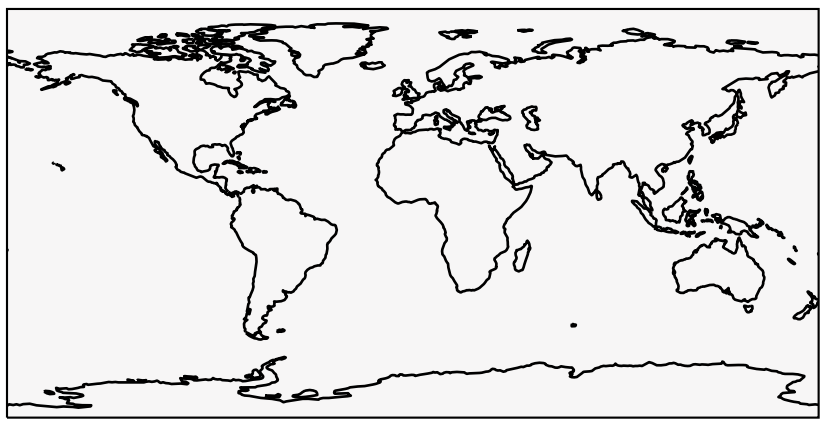


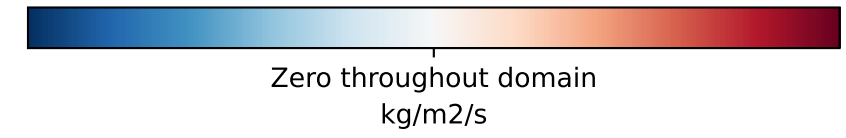
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



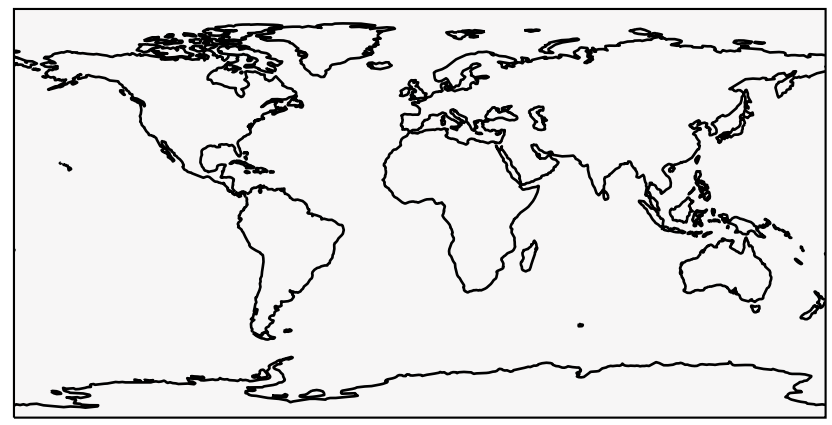


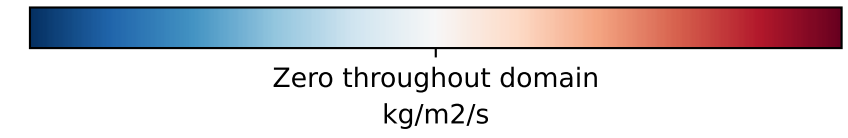
Difference
Dev - Ref, Dynamic Range



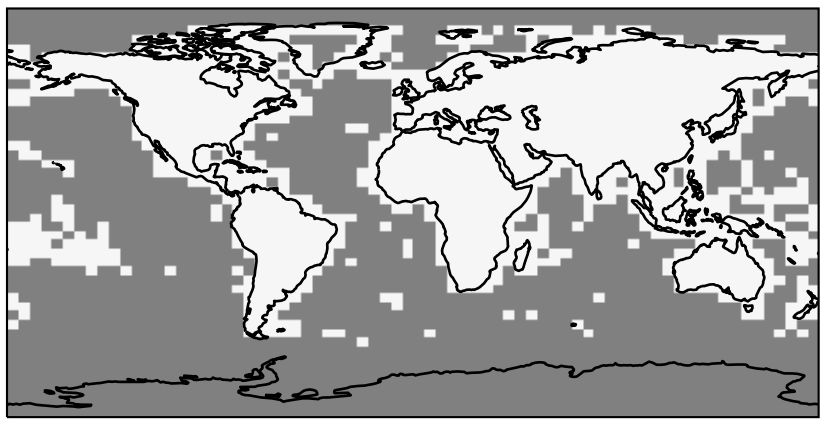


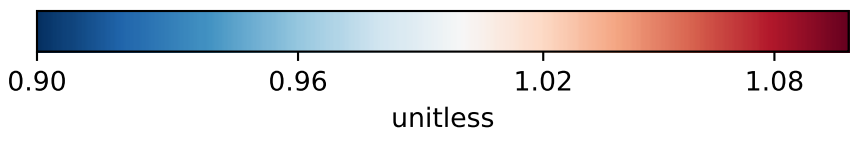
Difference
Dev - Ref, Restricted Range [5%,95%]



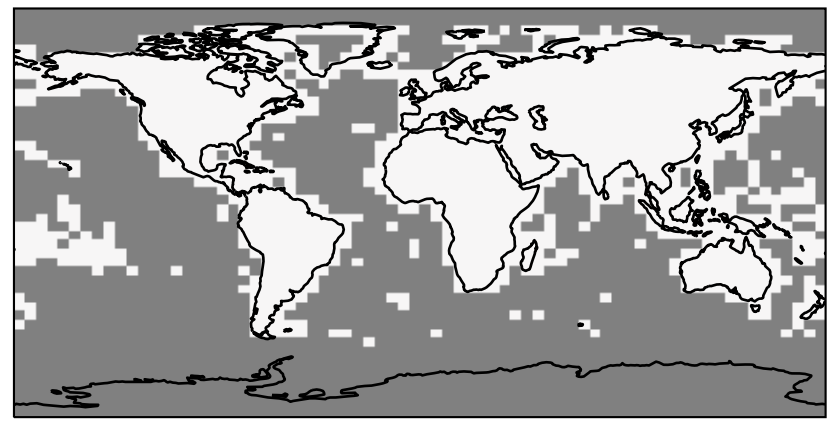


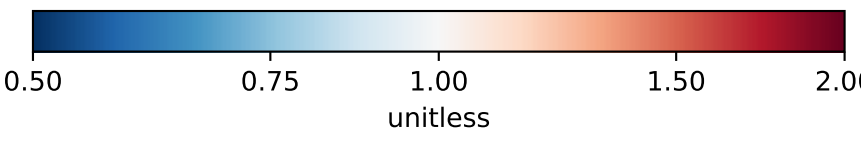
Ratio
Dev/Ref, Dynamic Range





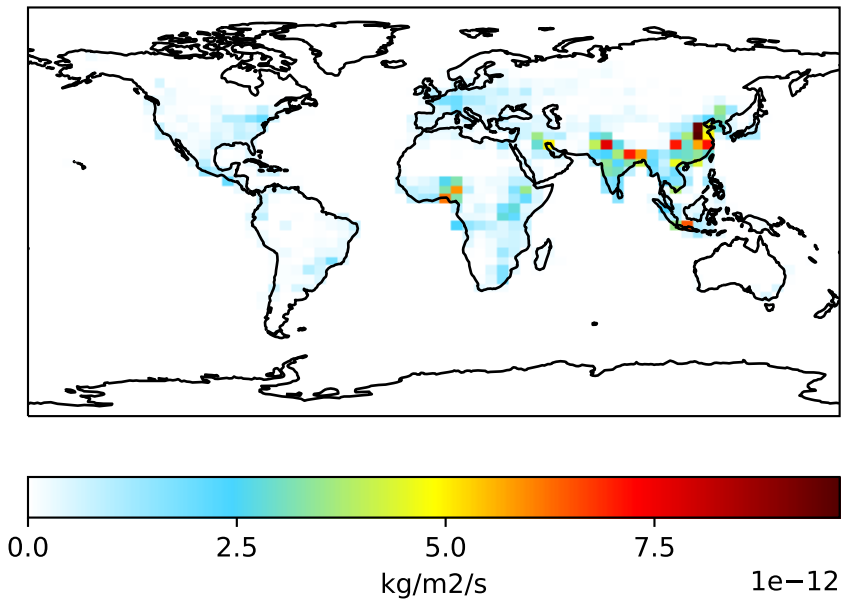
Ratio
Dev/Ref, Fixed Range



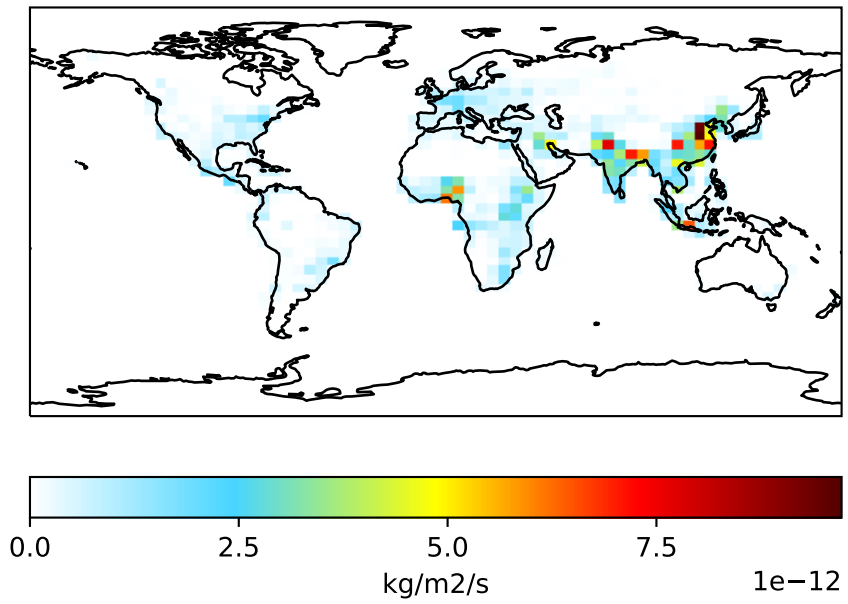


EmisMOH_Anthro

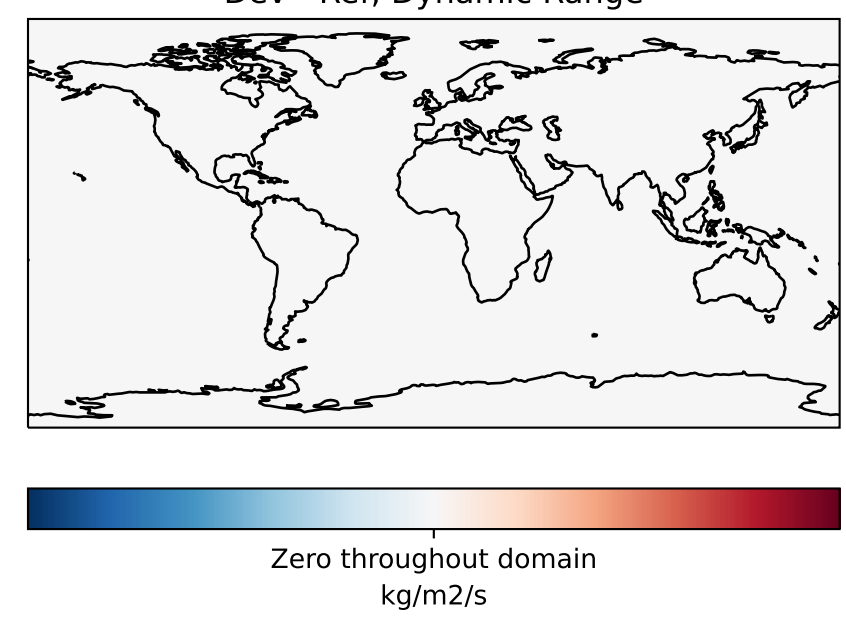
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



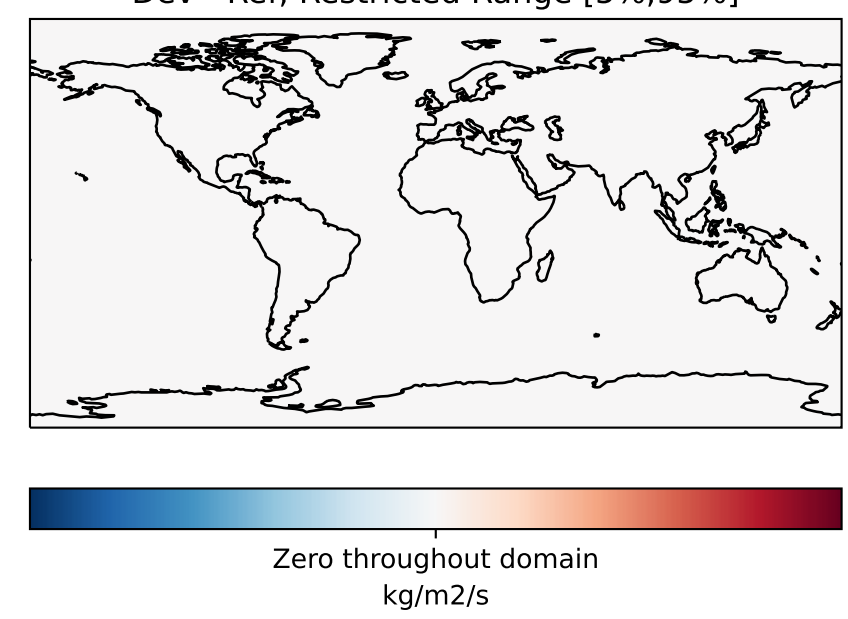
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



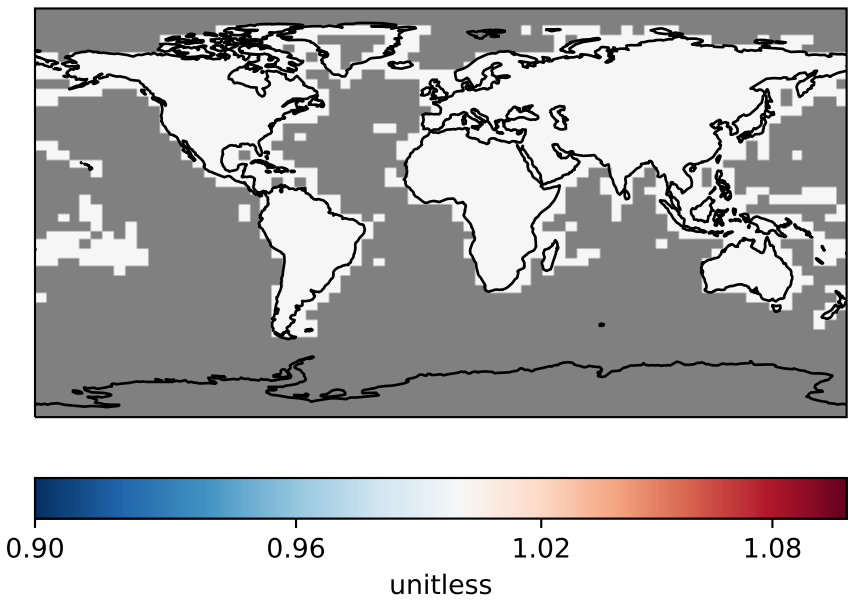
Difference
Dev - Ref, Dynamic Range



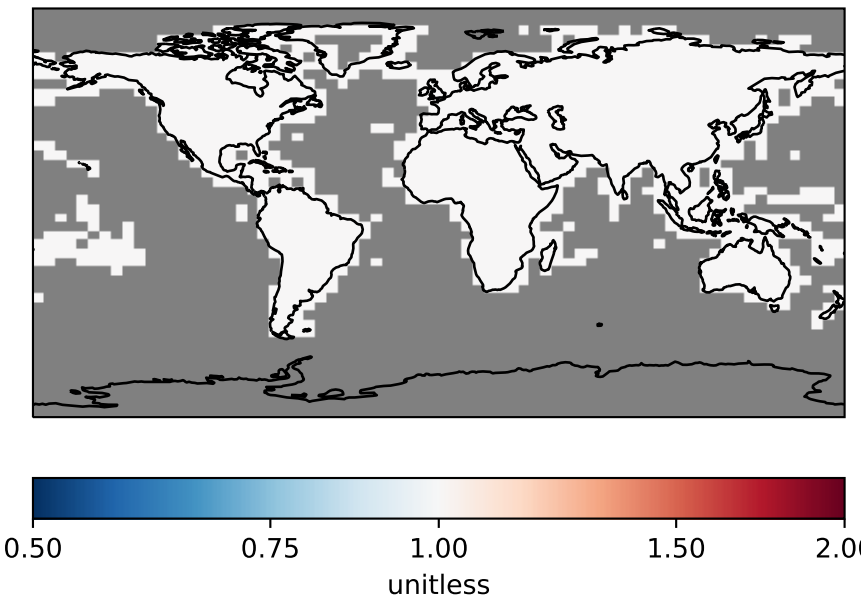
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

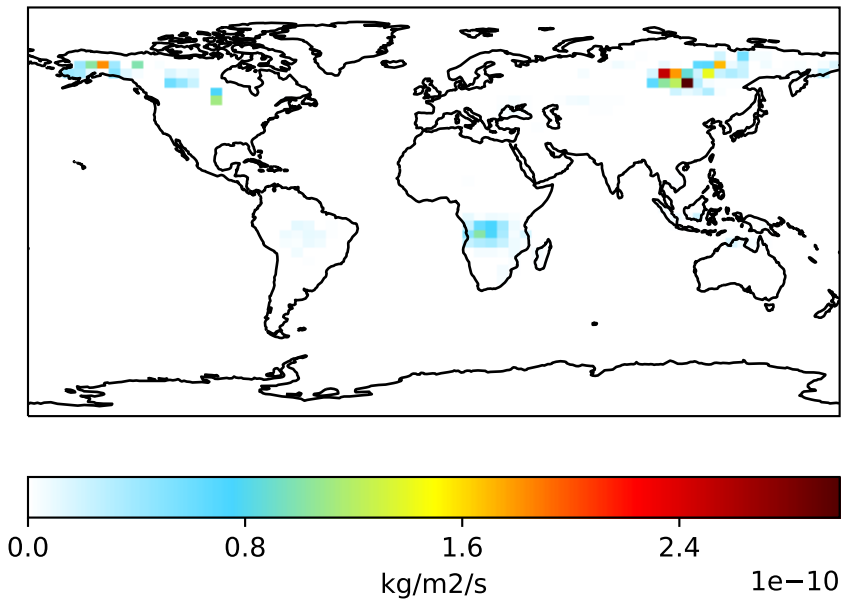


Ratio
Dev/Ref, Fixed Range

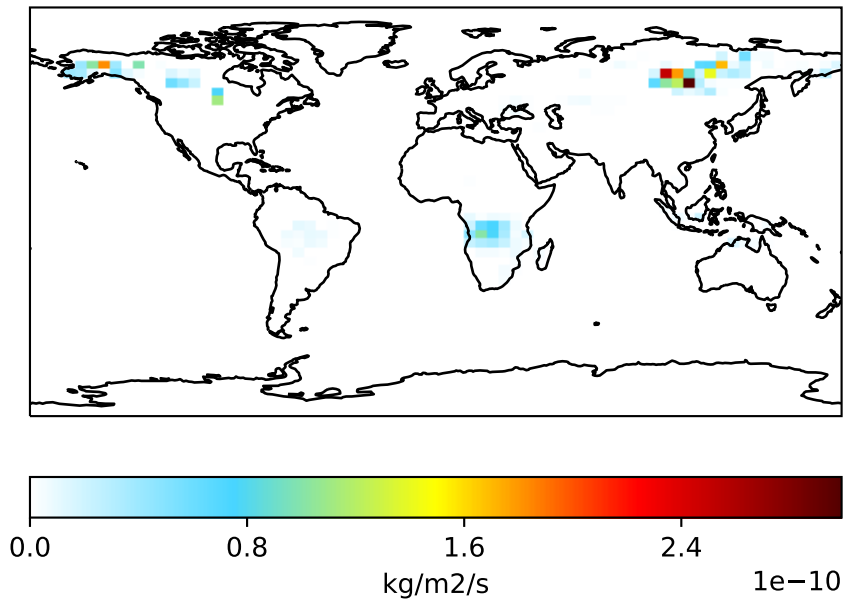


EmisMOH_BioBurn

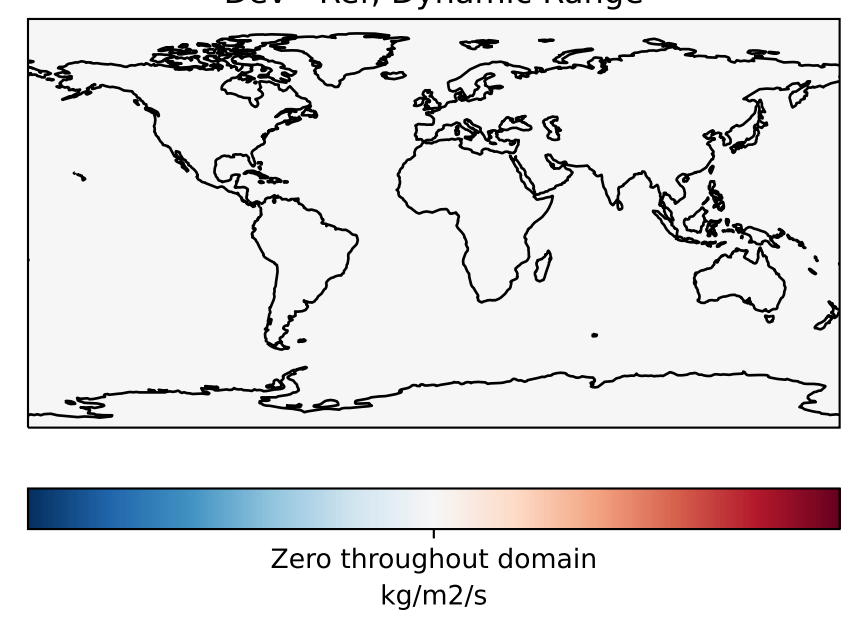
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



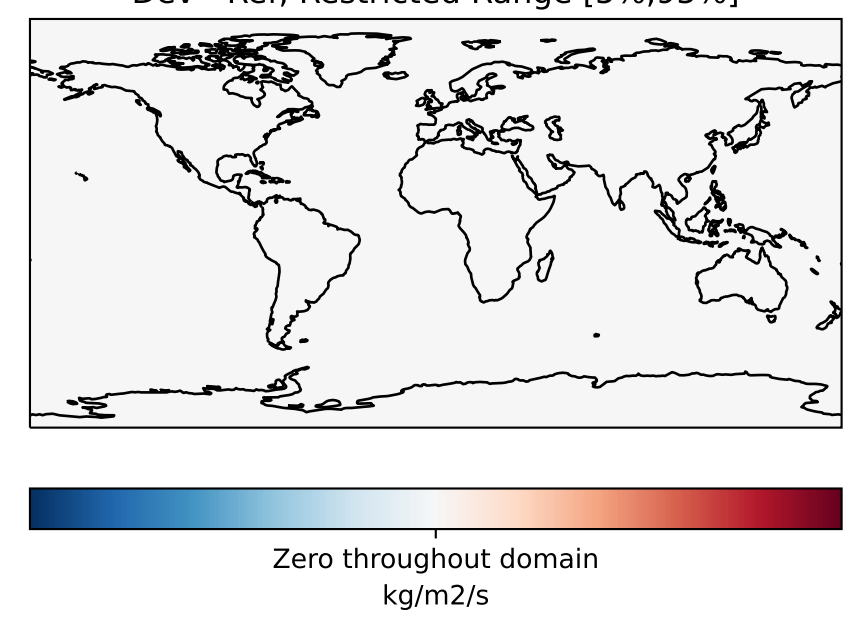
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



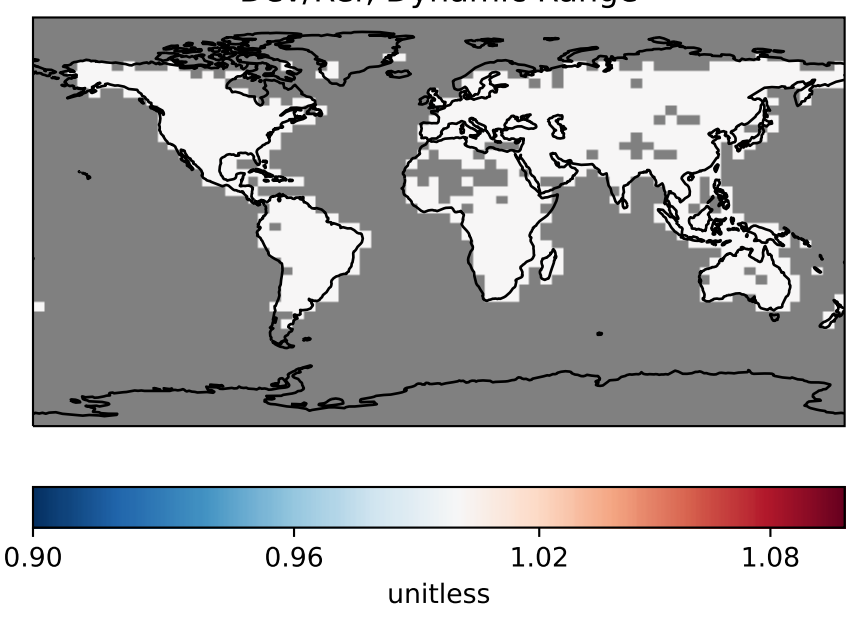
Difference
Dev - Ref, Dynamic Range



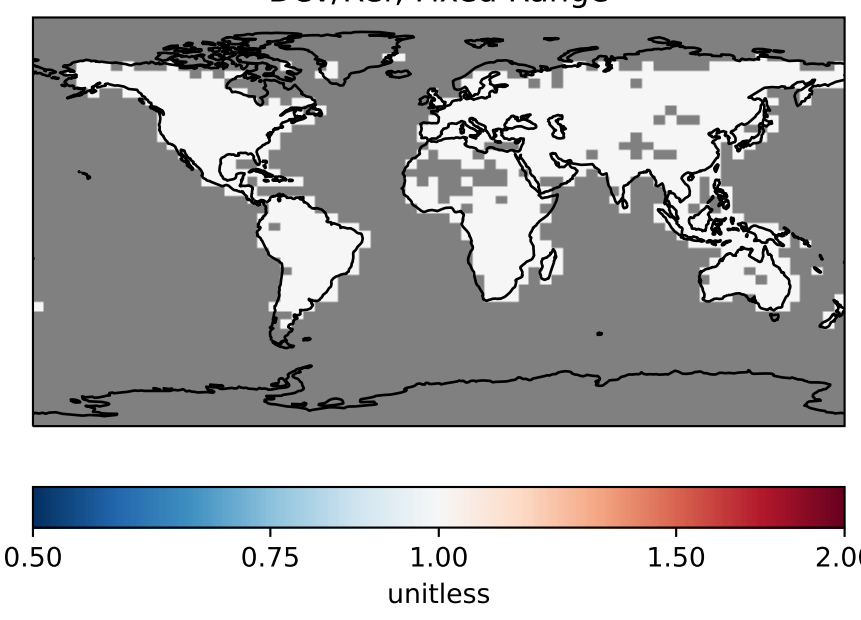
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

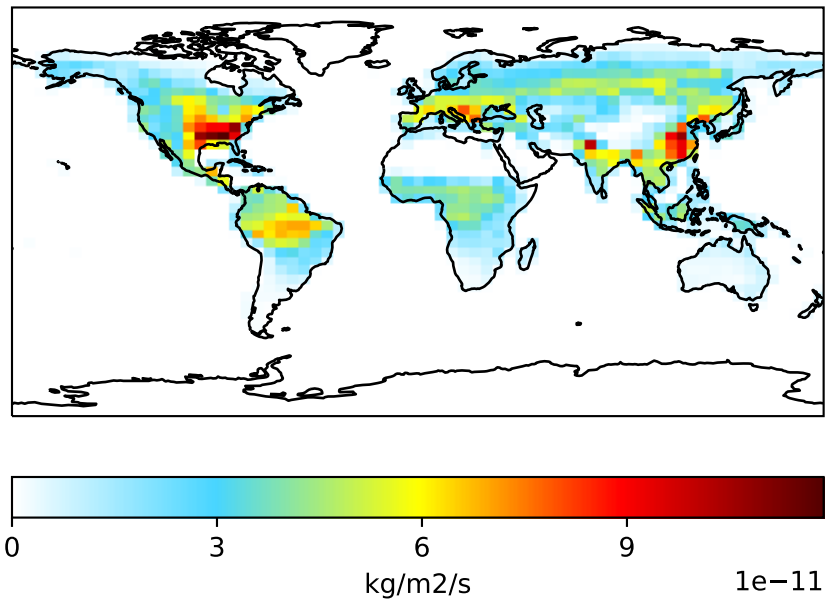


Ratio
Dev/Ref, Fixed Range

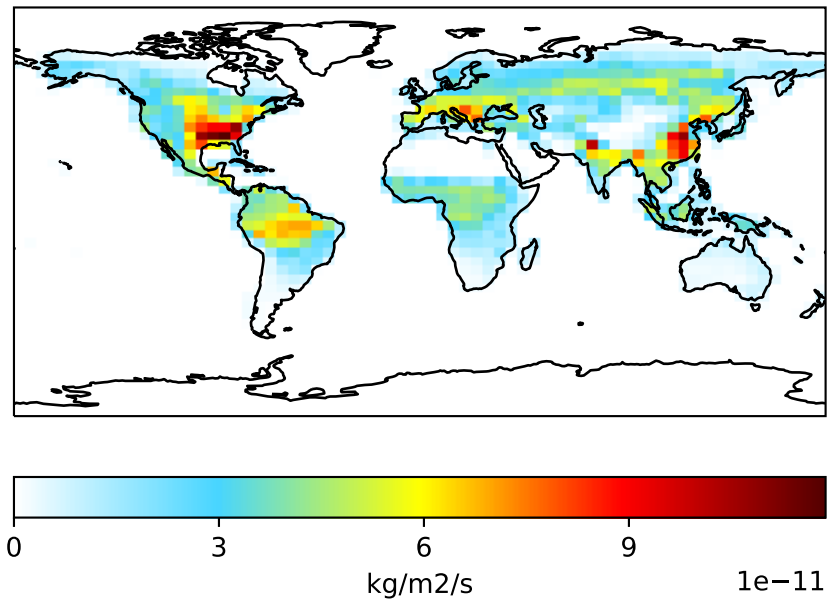


EmisMOH_Biogenic

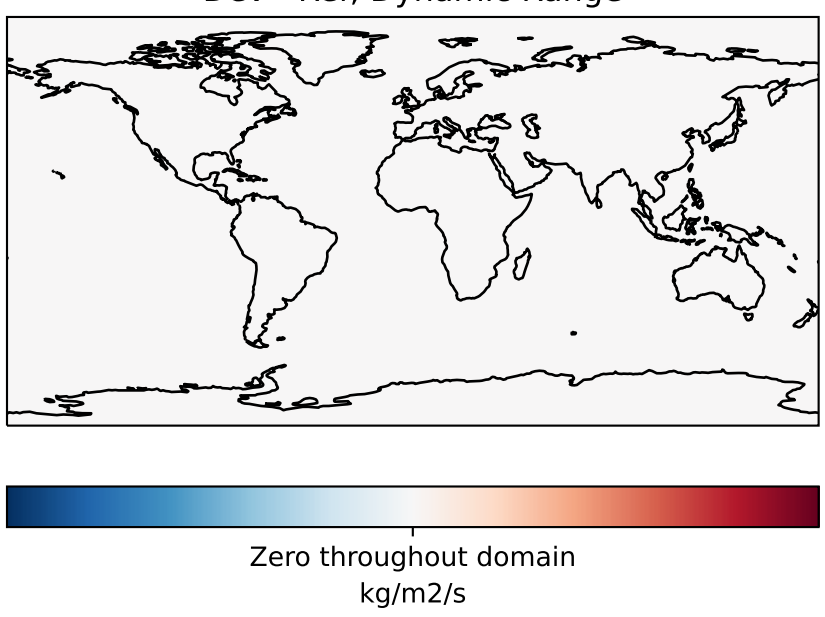
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



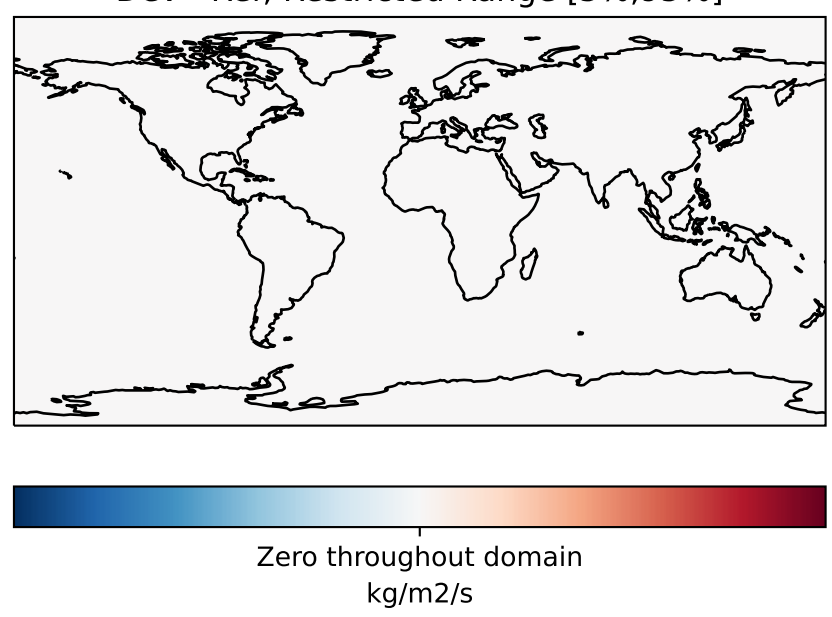
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



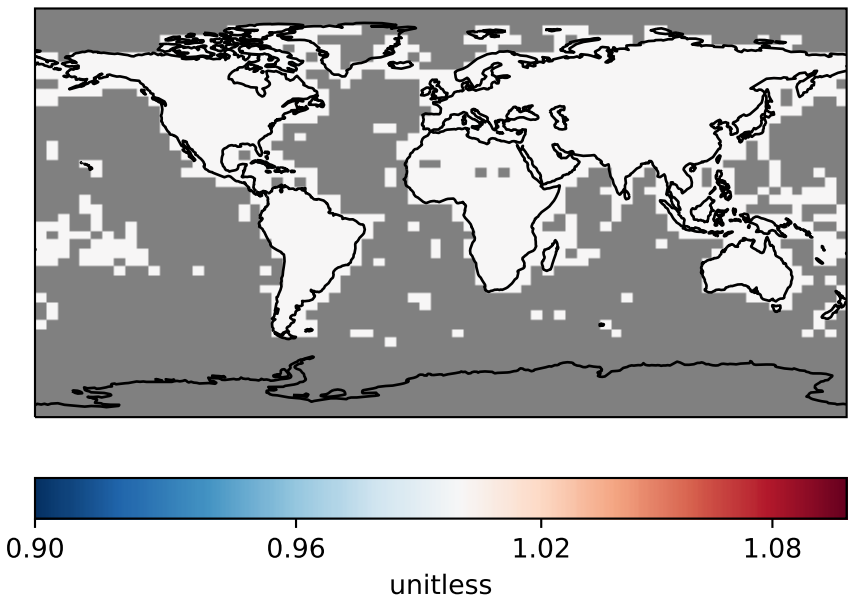
Difference
Dev - Ref, Dynamic Range



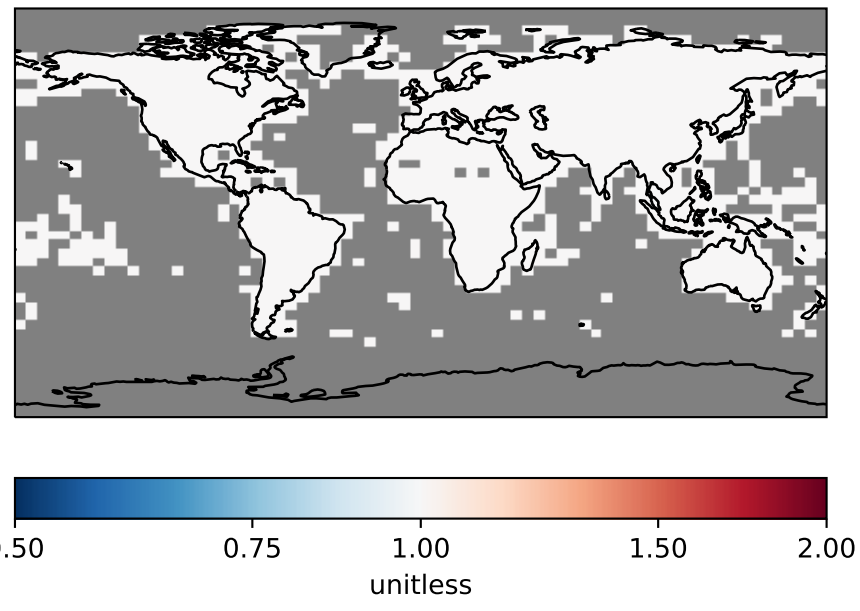
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

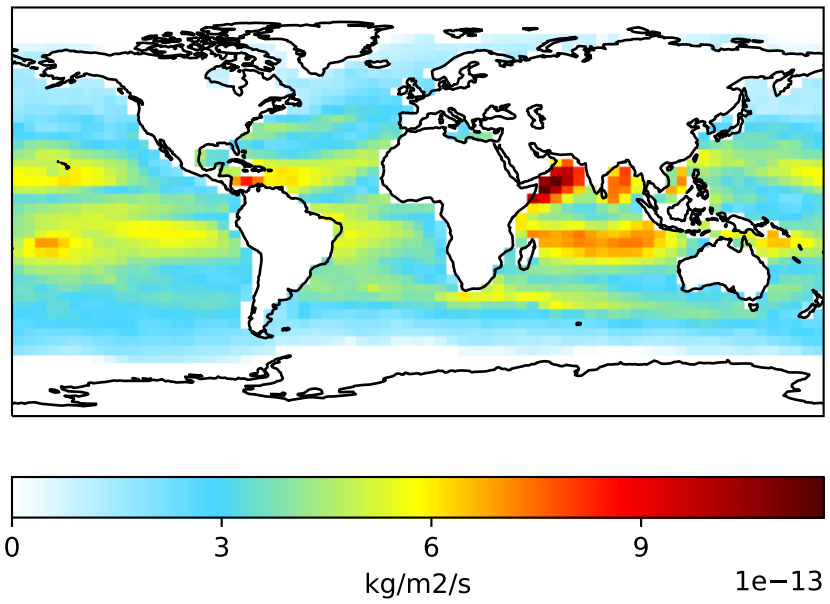


Ratio
Dev/Ref, Fixed Range

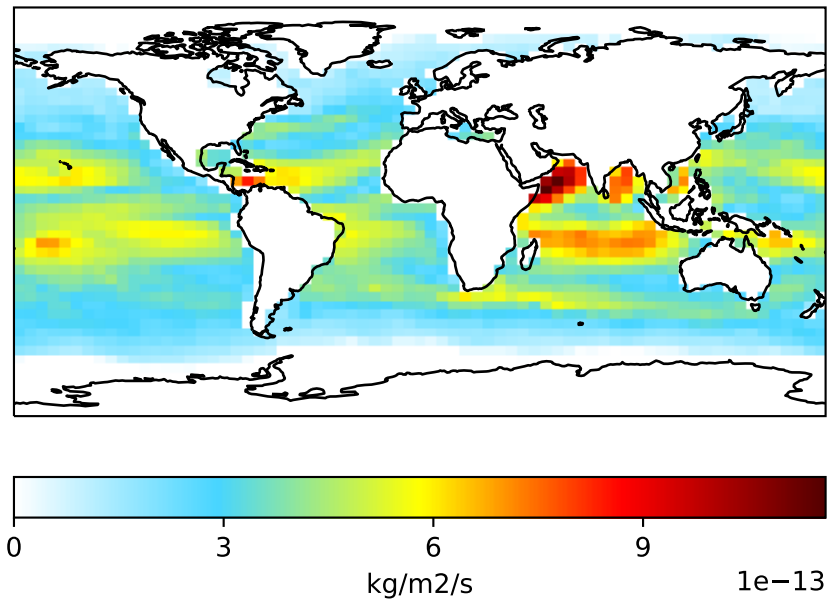


EmisMOH_Ocean

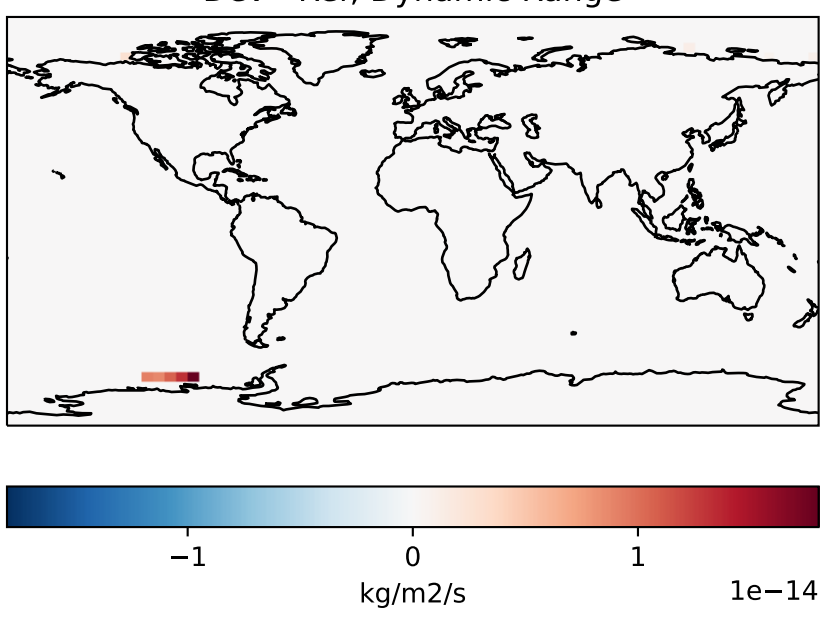
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



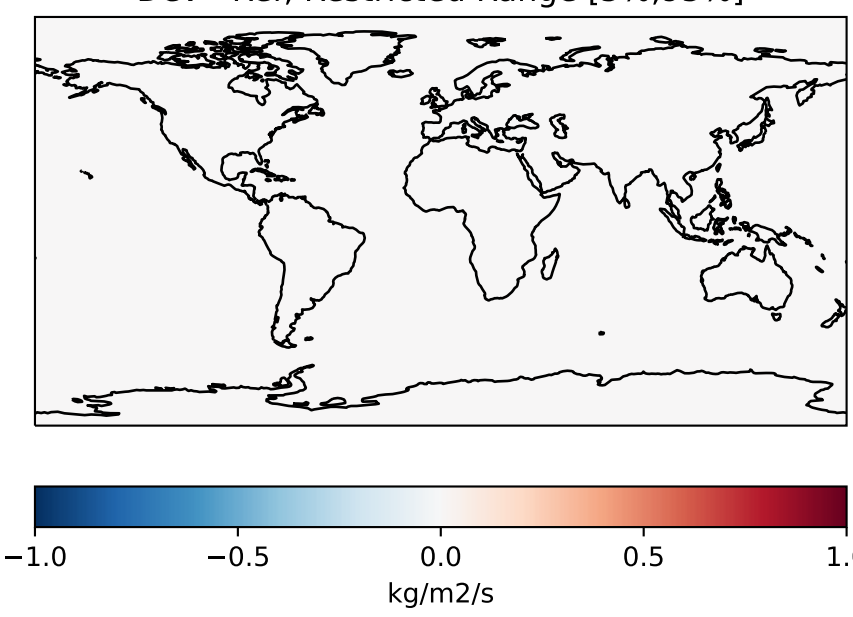
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



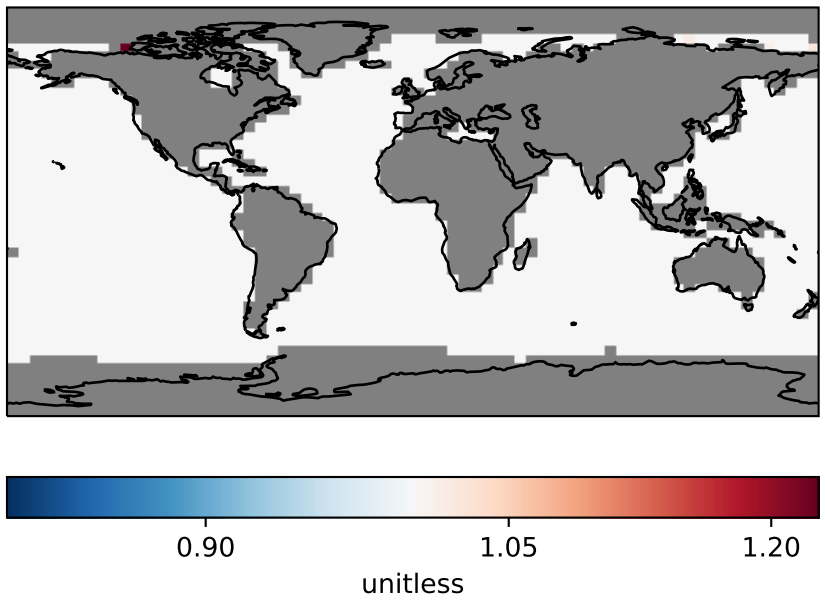
Difference
Dev - Ref, Dynamic Range



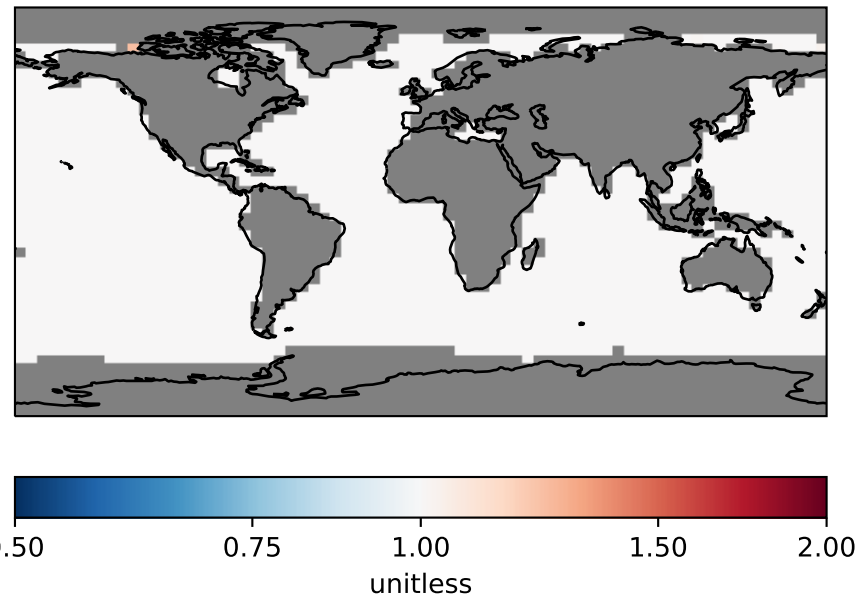
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

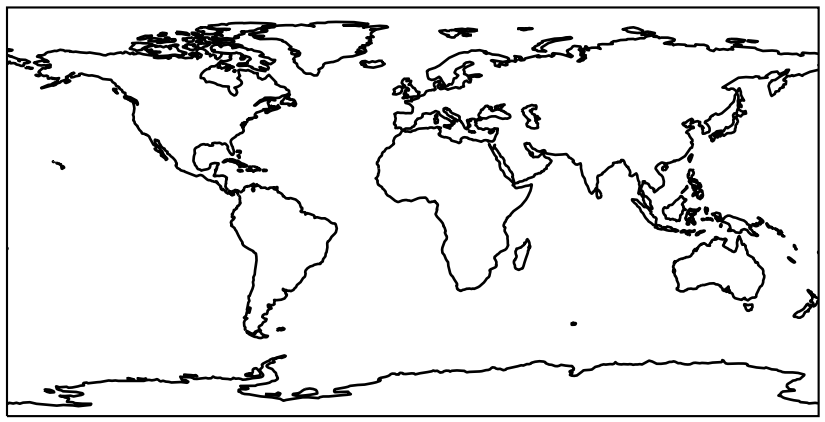


Ratio
Dev/Ref, Fixed Range



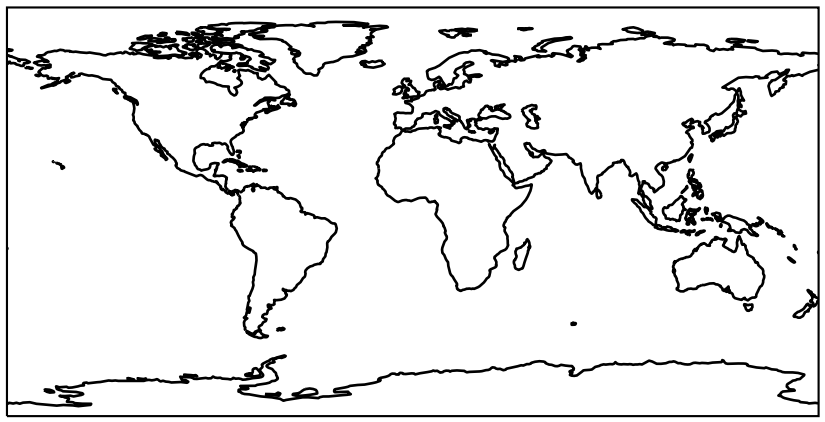
EmisMOH_Ship

GCC_13.3.0-rc.1 (Ref)
4.0x5.0



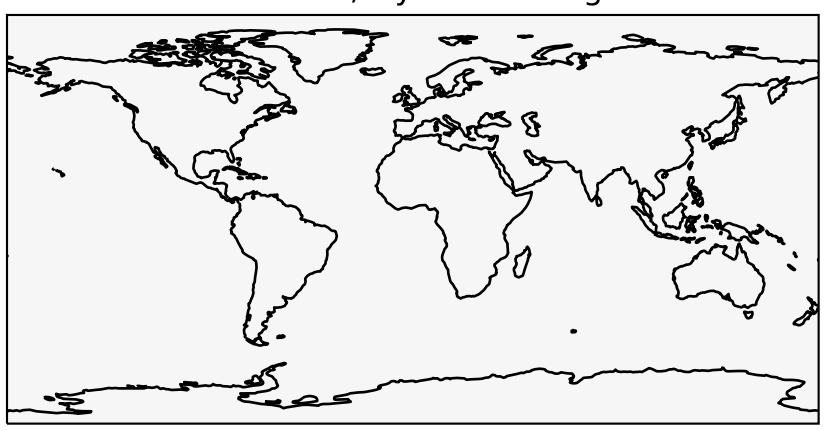
Zero throughout domain
kg/m2/s

GCC_13.4.0-rc.3 (Dev)
4.0x5.0



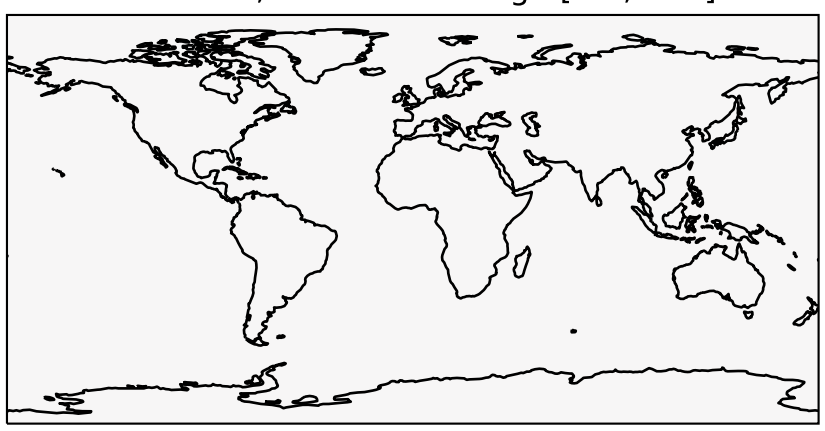
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



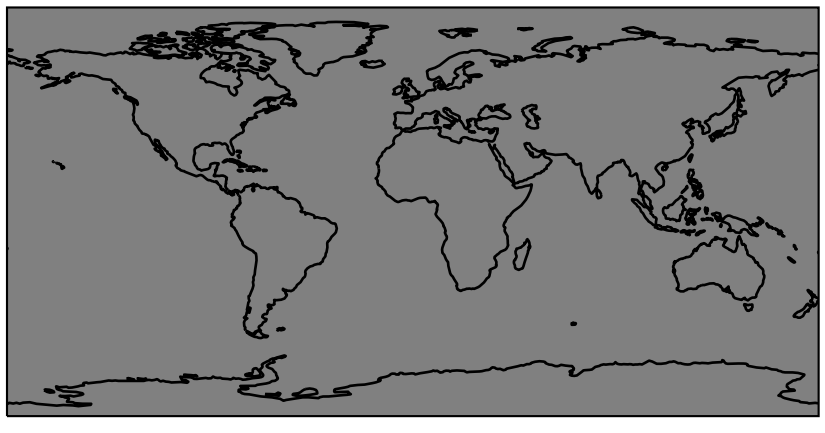
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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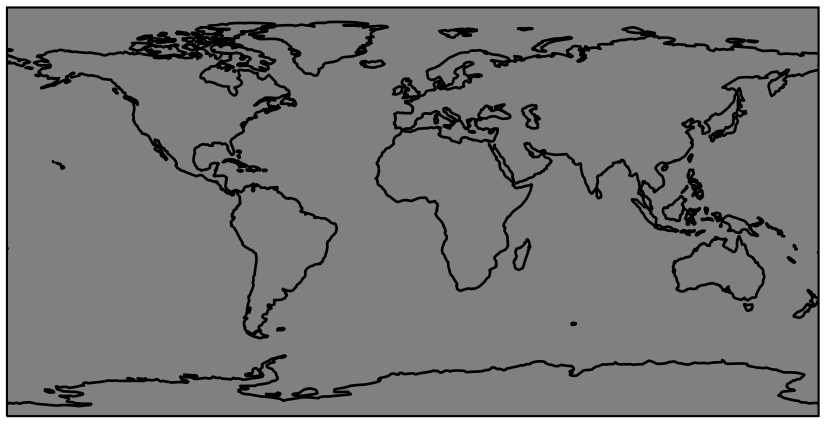
unitless

Ratio
Dev/Ref, Fixed Range



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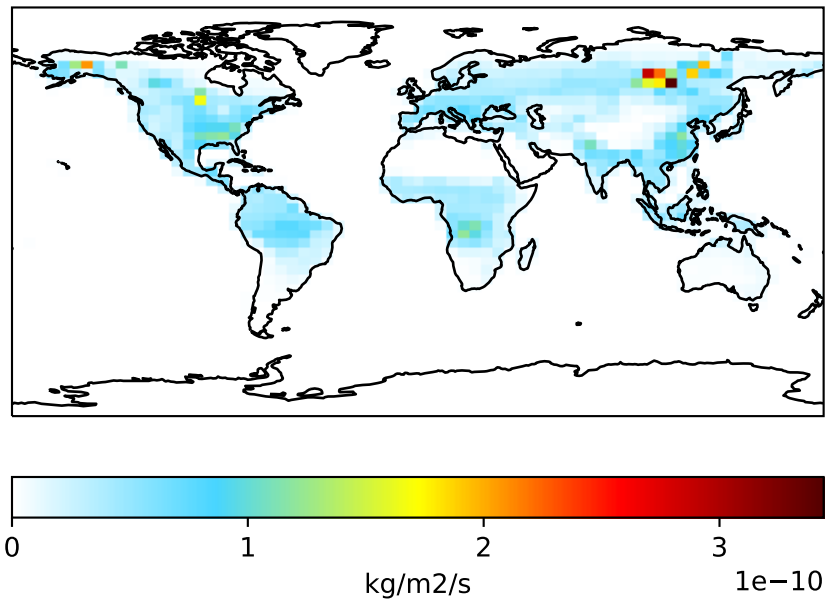
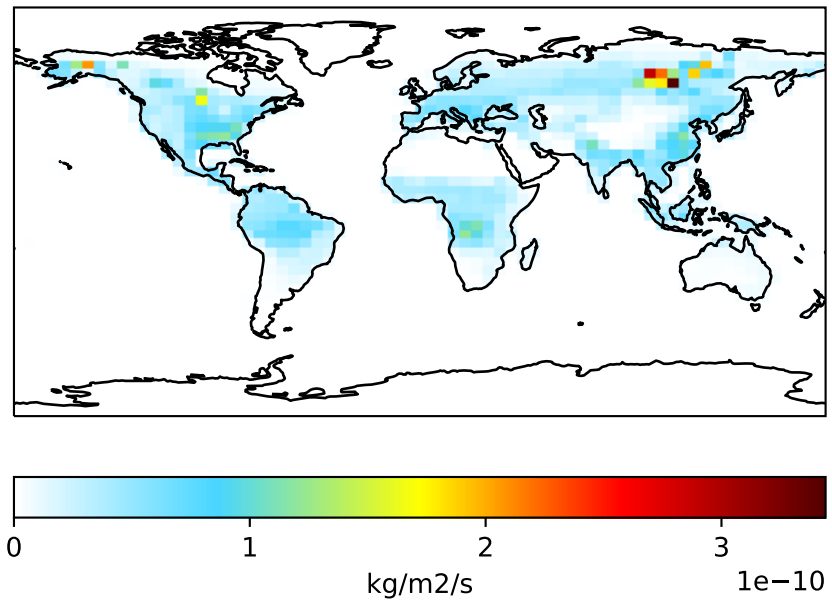
EmisMOH_Total

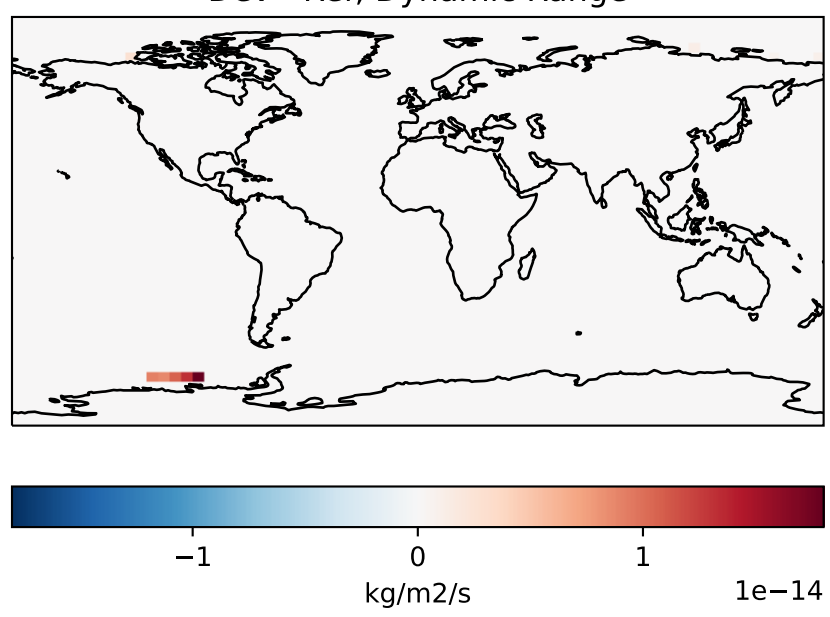
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



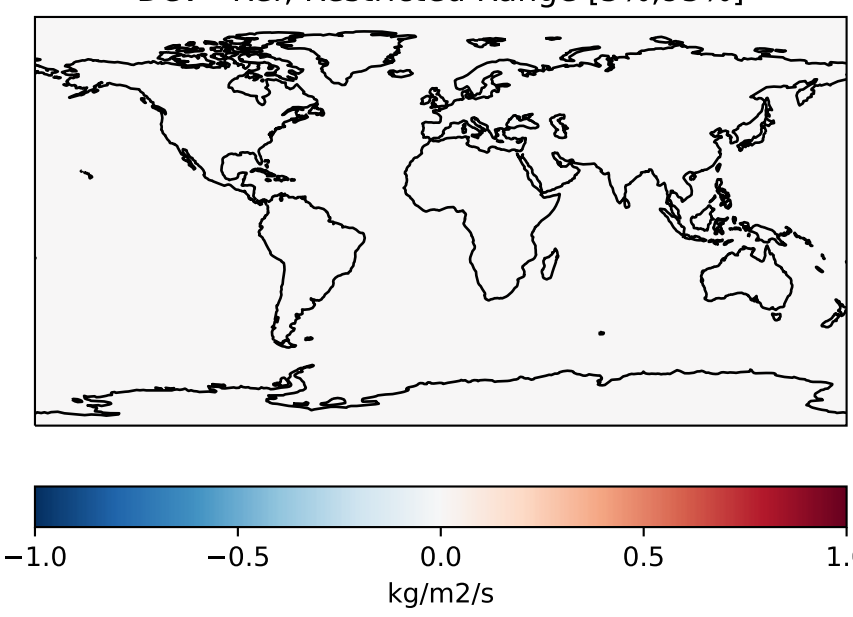
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



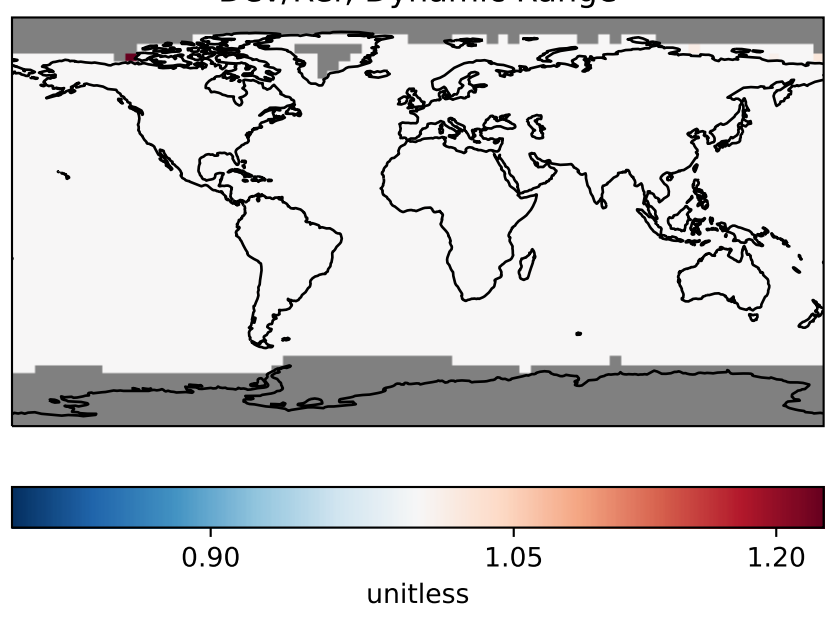
Difference
Dev - Ref, Dynamic Range



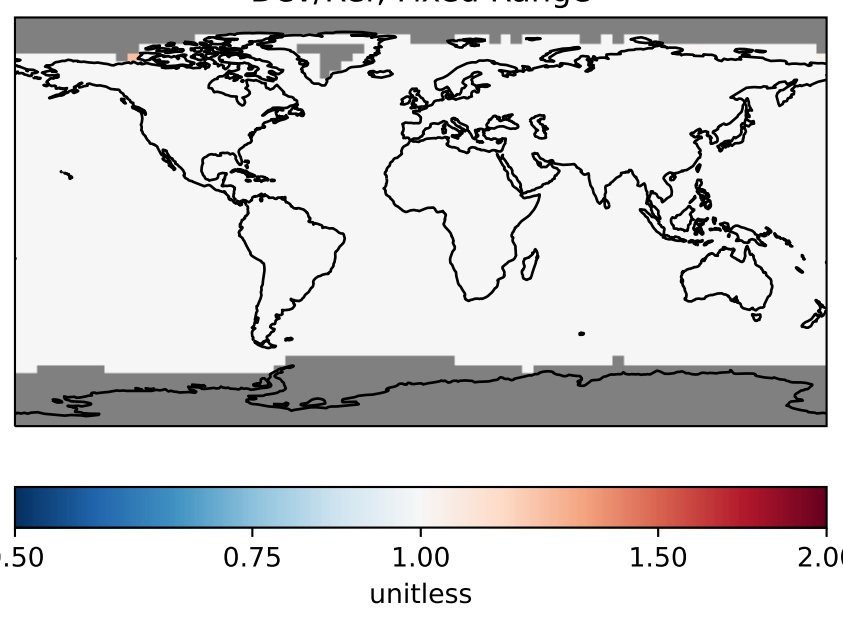
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

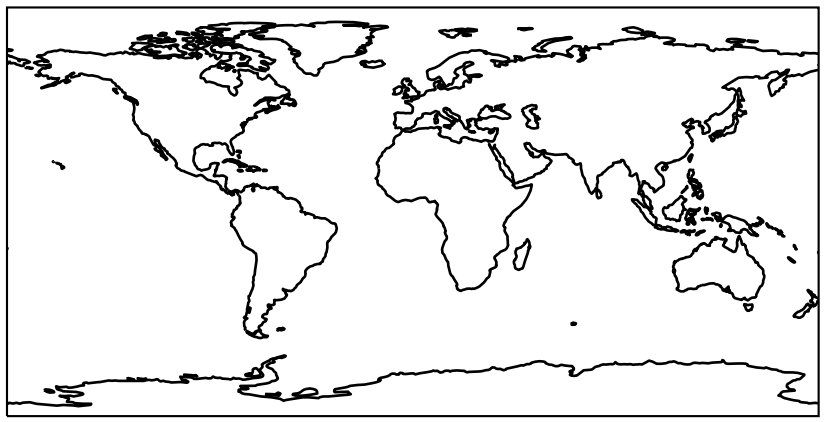


Ratio
Dev/Ref, Fixed Range



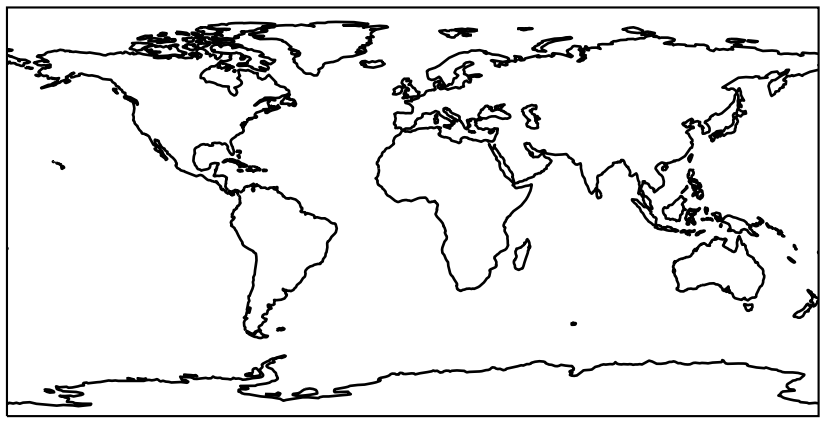
EmisISOP_Anthro

GCC_13.3.0-rc.1 (Ref)
4.0x5.0



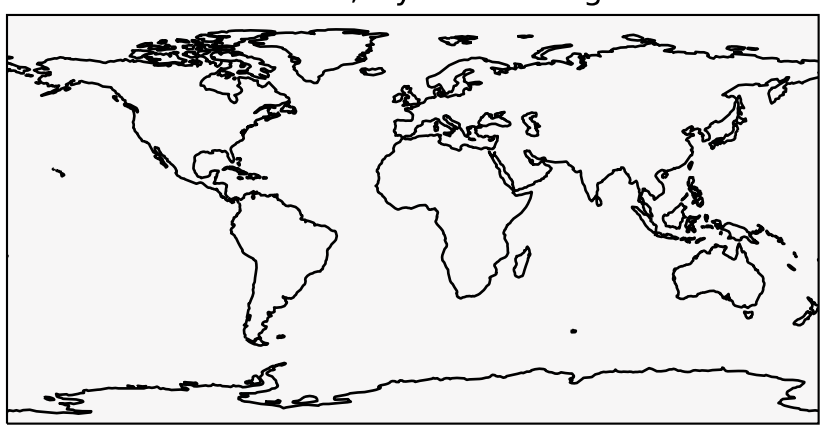
Zero throughout domain
kg/m2/s

GCC_13.4.0-rc.3 (Dev)
4.0x5.0



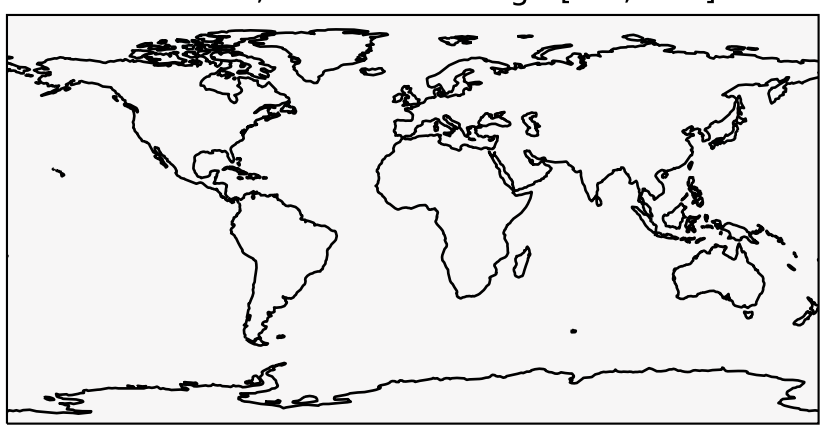
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



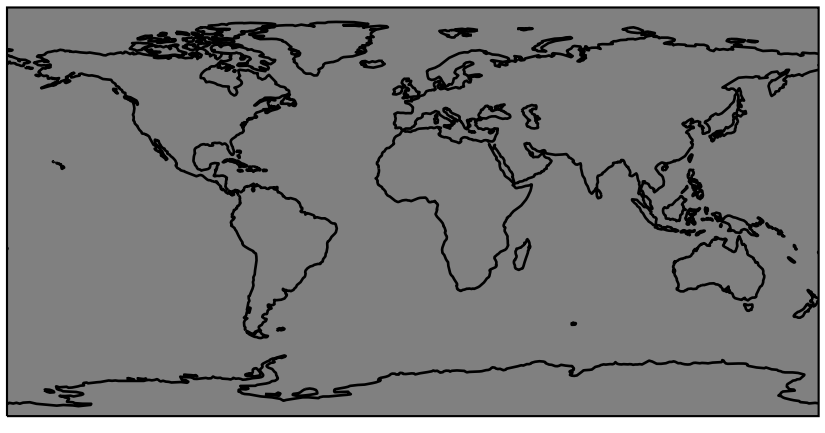
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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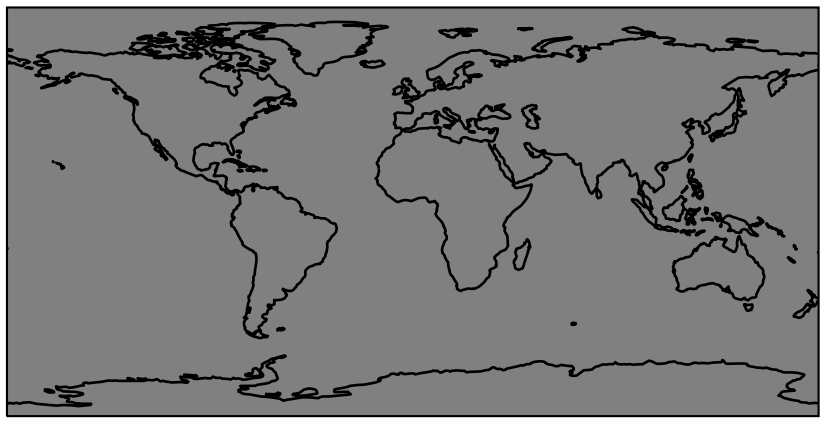
Ratio
Dev/Ref, Fixed Range



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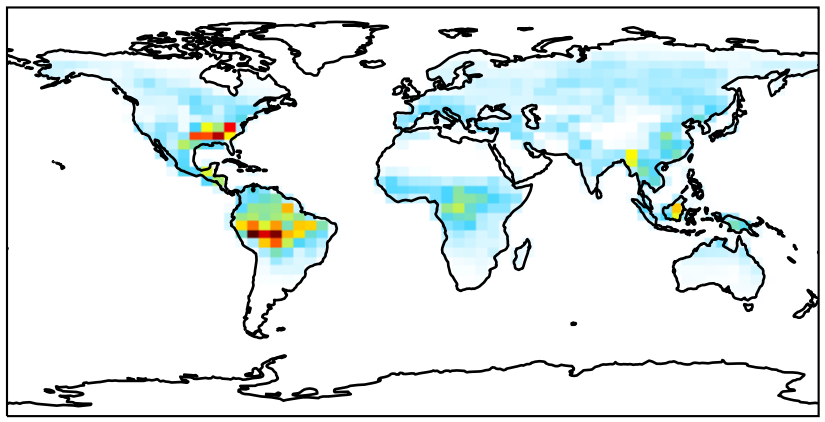
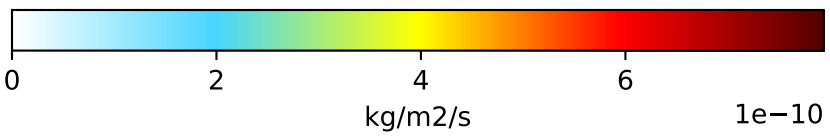
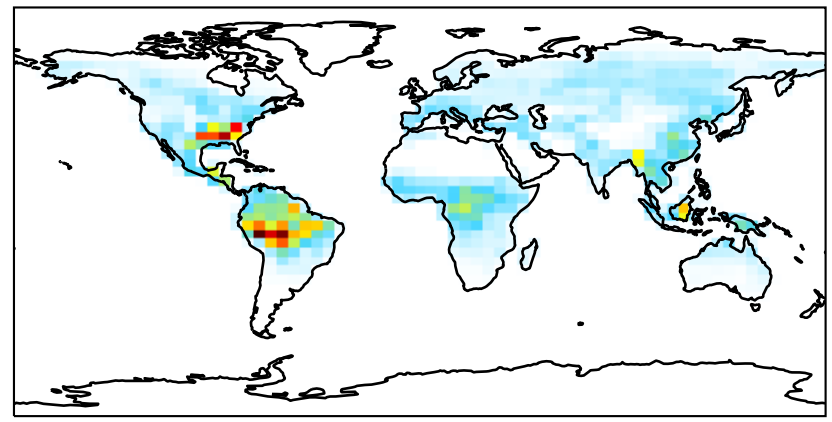
EmisISOP_Biogenic

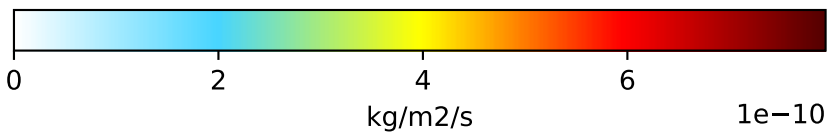
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



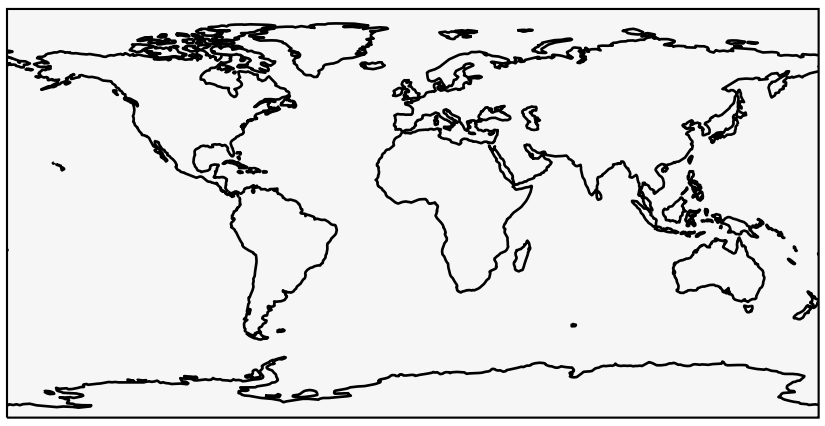


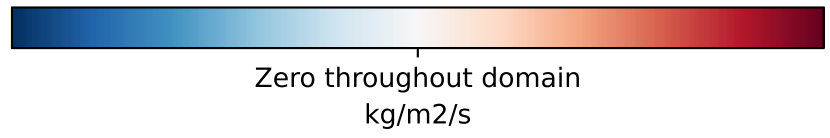
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



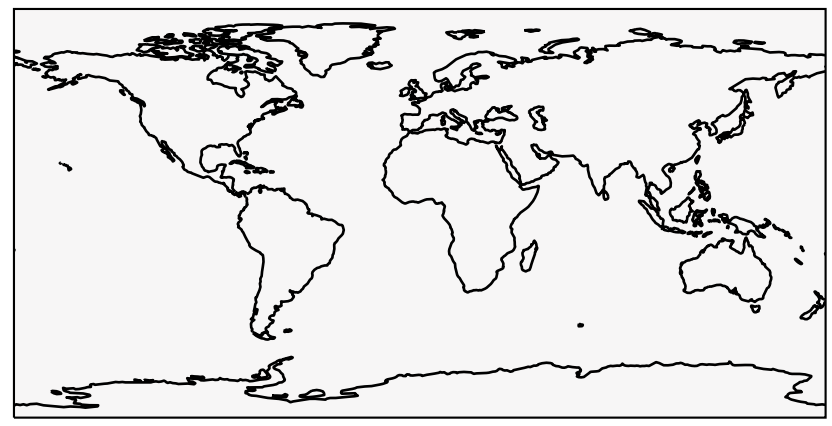


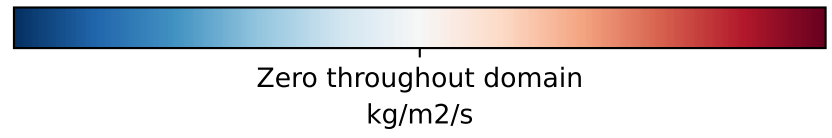
Difference
Dev - Ref, Dynamic Range



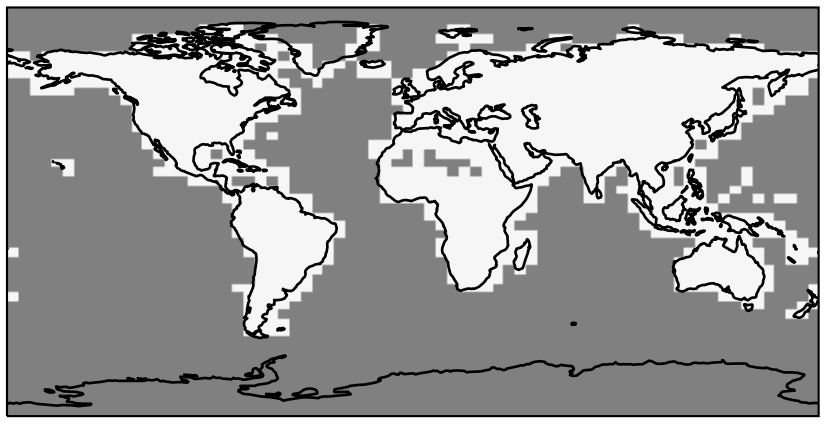


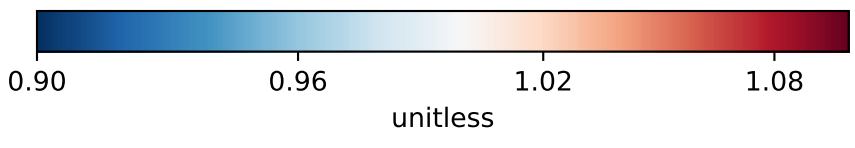
Difference
Dev - Ref, Restricted Range [5%,95%]



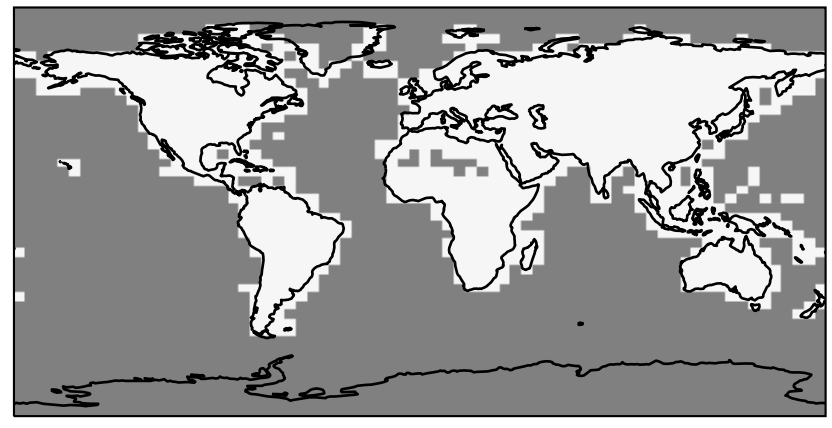


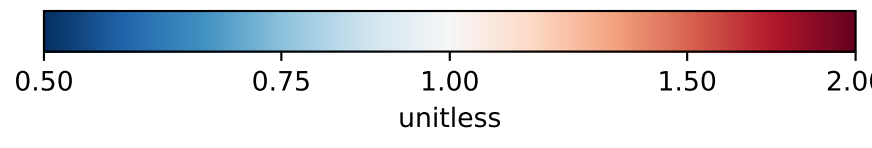
Ratio
Dev/Ref, Dynamic Range





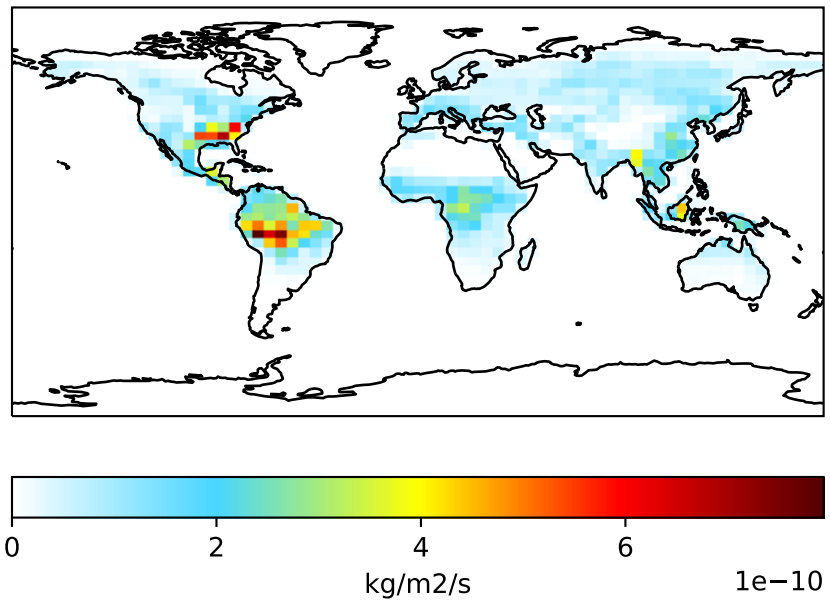
Ratio
Dev/Ref, Fixed Range



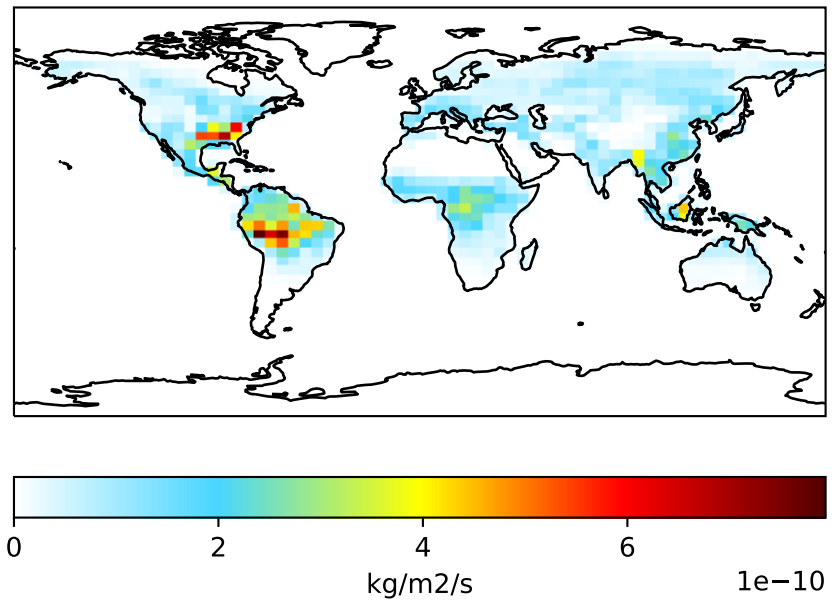


EmisISOP_Total

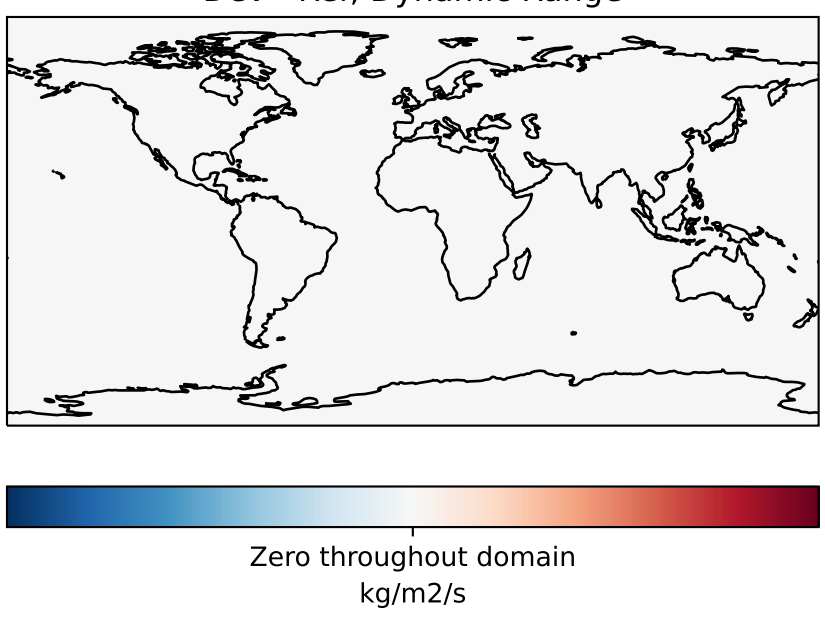
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



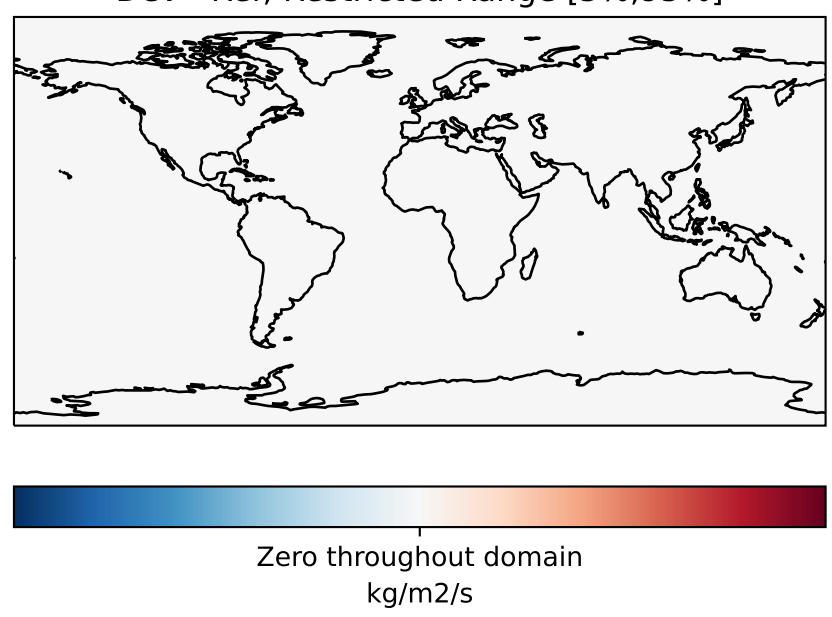
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



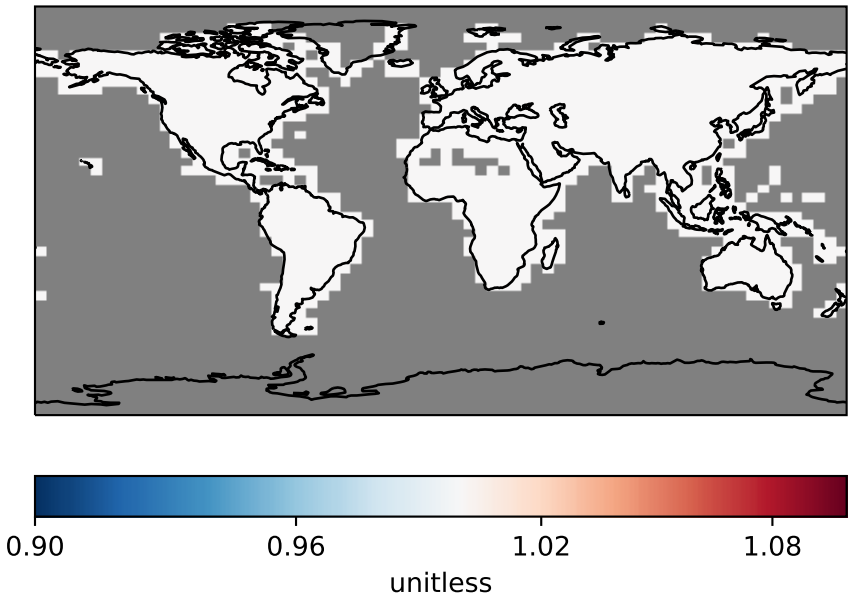
Difference
Dev - Ref, Dynamic Range



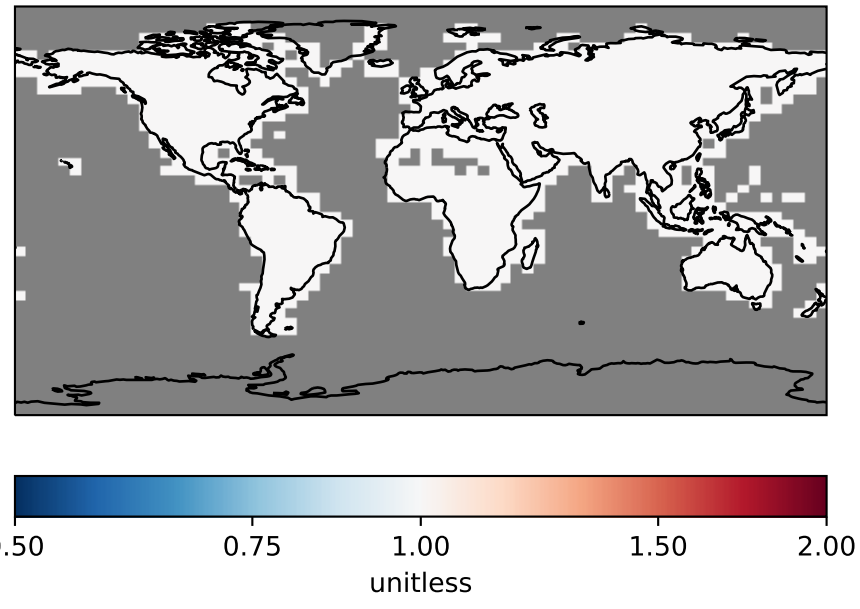
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

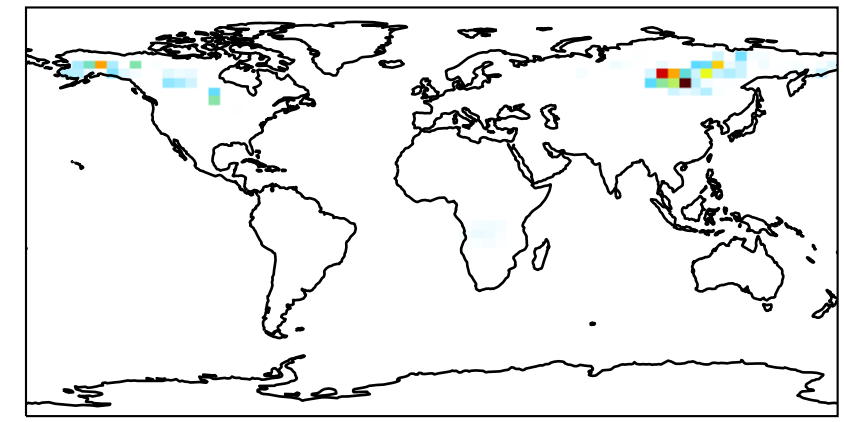


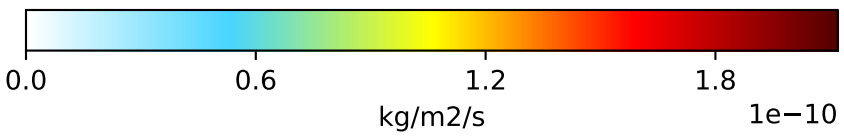
Ratio
Dev/Ref, Fixed Range



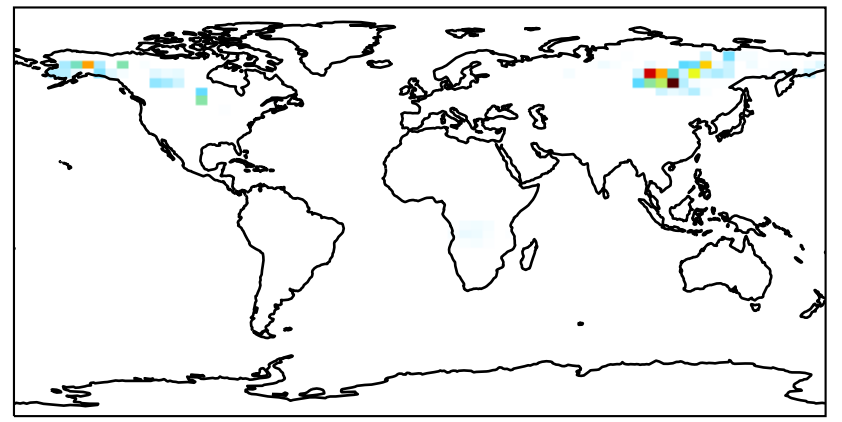
EmisMTPA_BioBurn

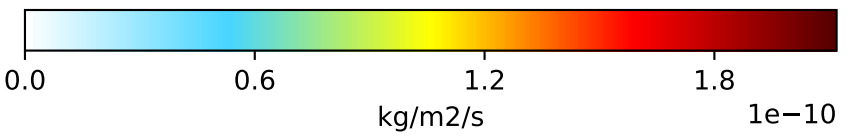
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



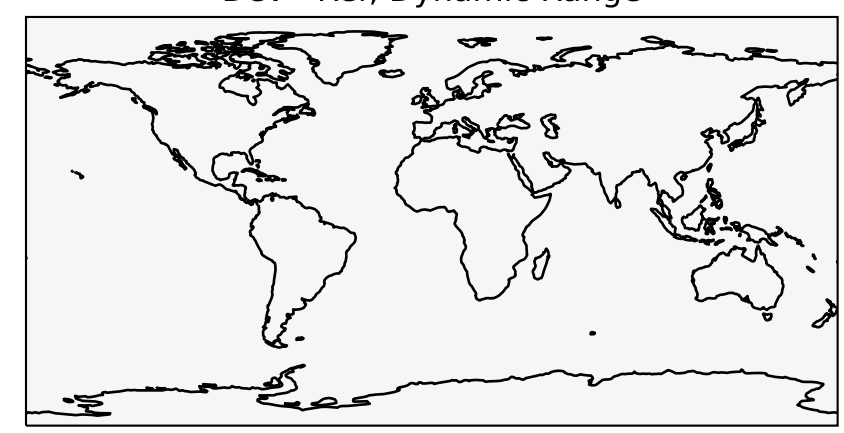


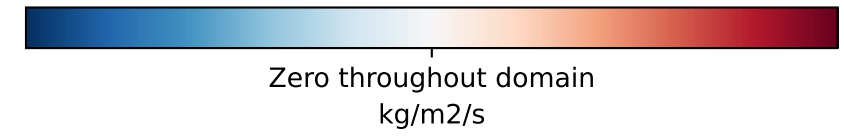
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



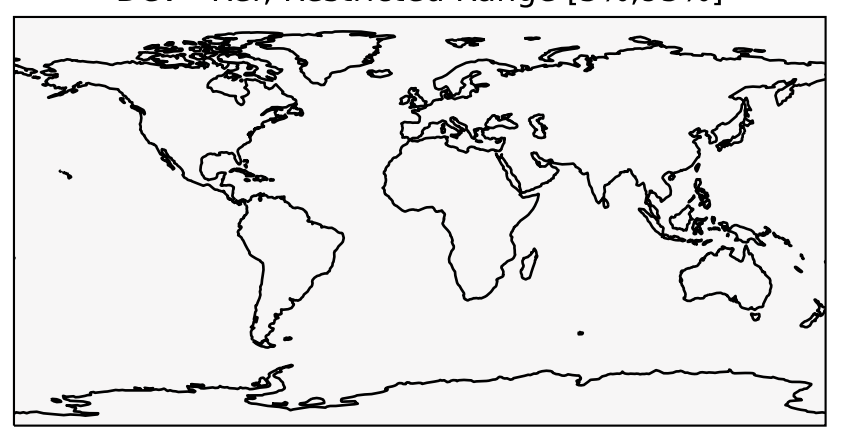


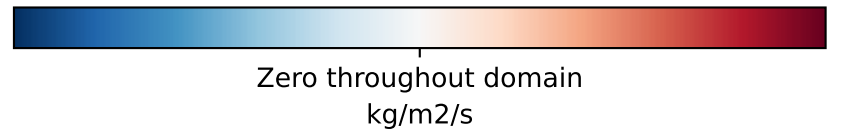
Difference
Dev - Ref, Dynamic Range



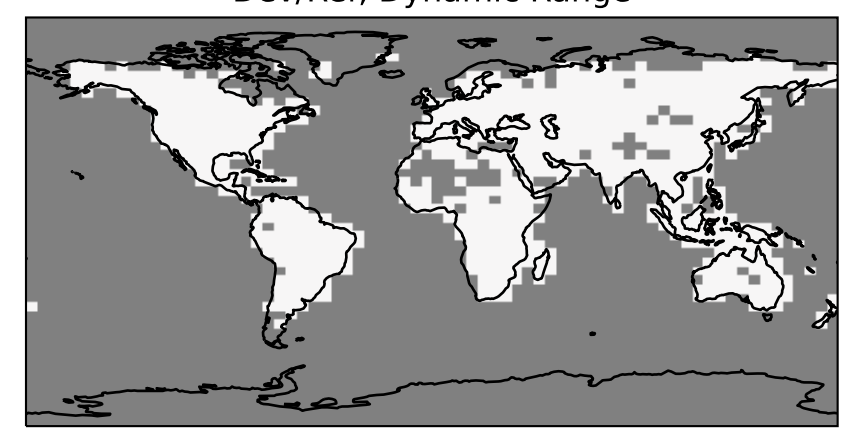


Difference
Dev - Ref, Restricted Range [5%,95%]

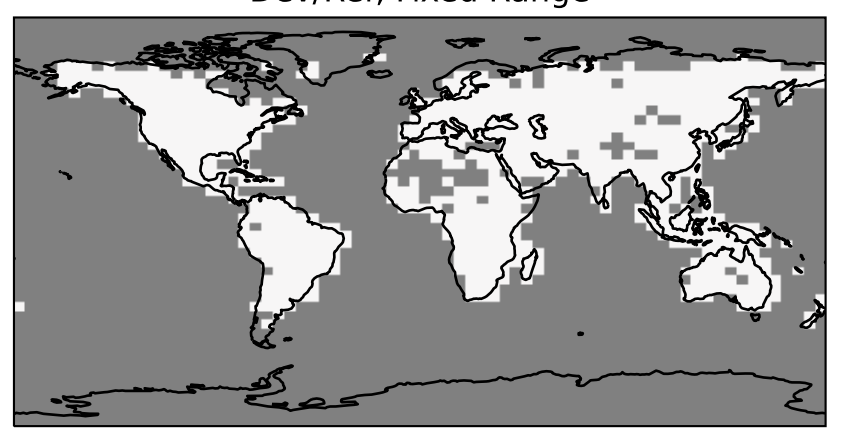


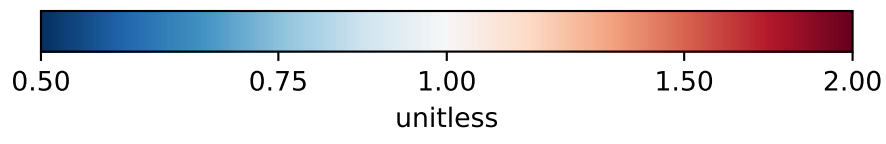


Ratio
Dev/Ref, Dynamic Range



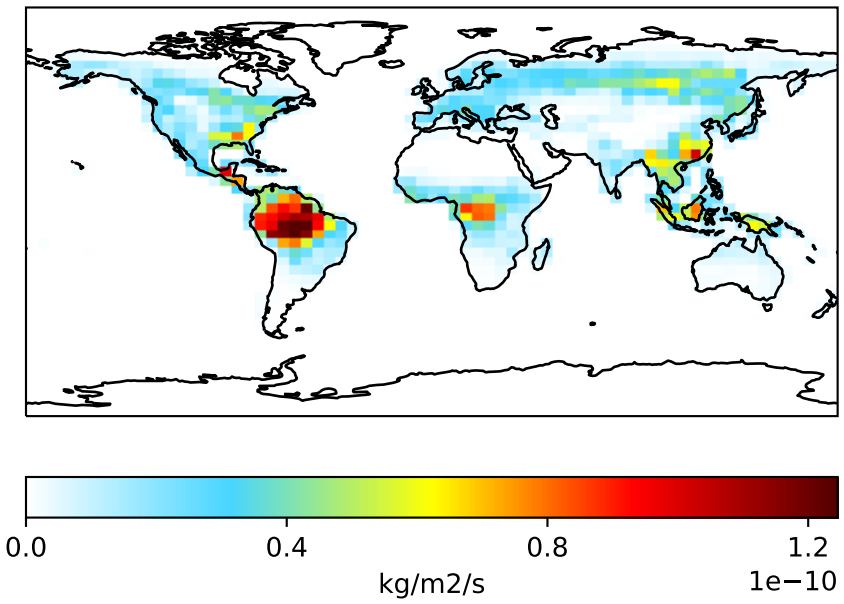
Ratio
Dev/Ref, Fixed Range



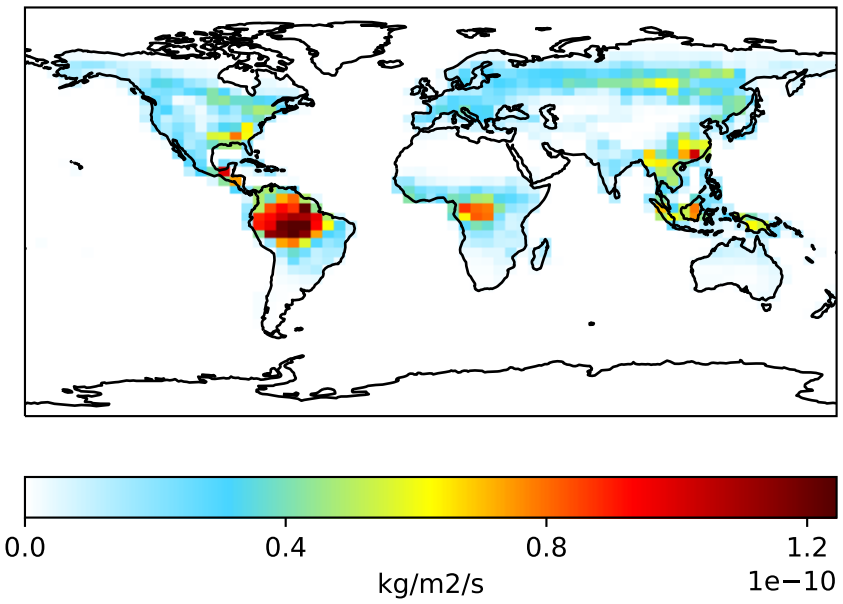


EmisMTPA_Biogenic

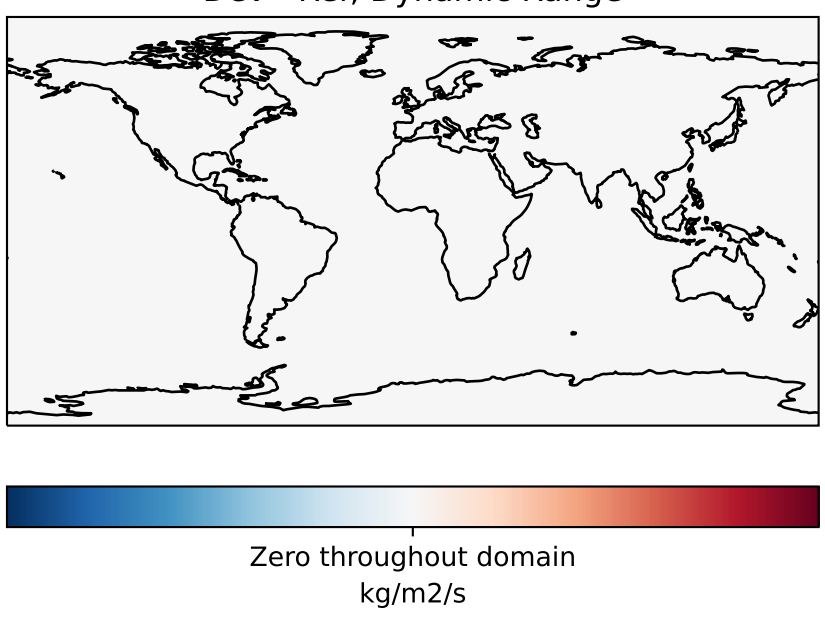
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



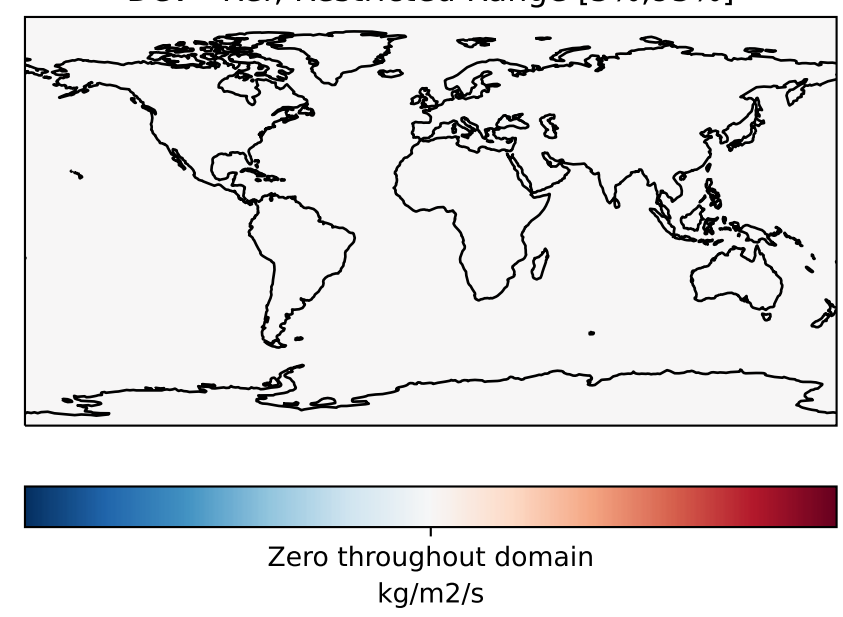
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



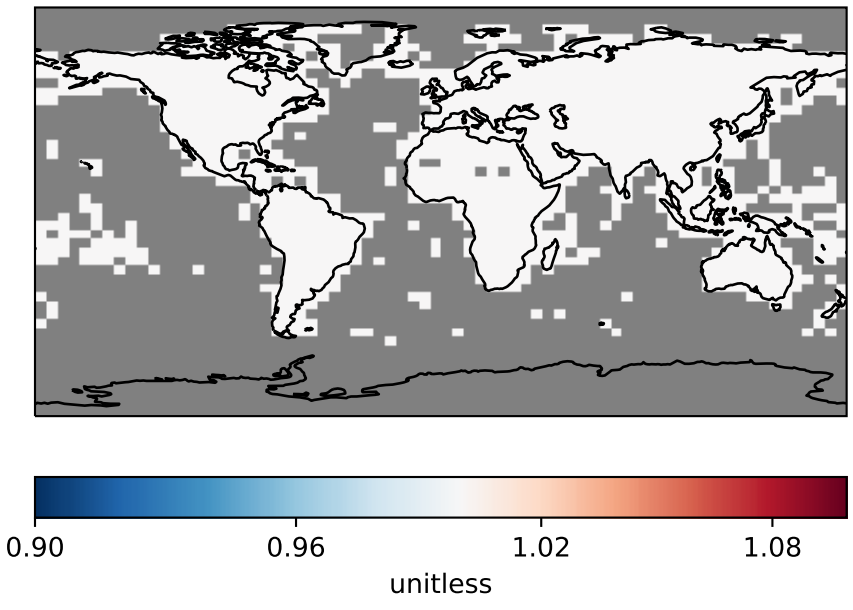
Difference
Dev - Ref, Dynamic Range



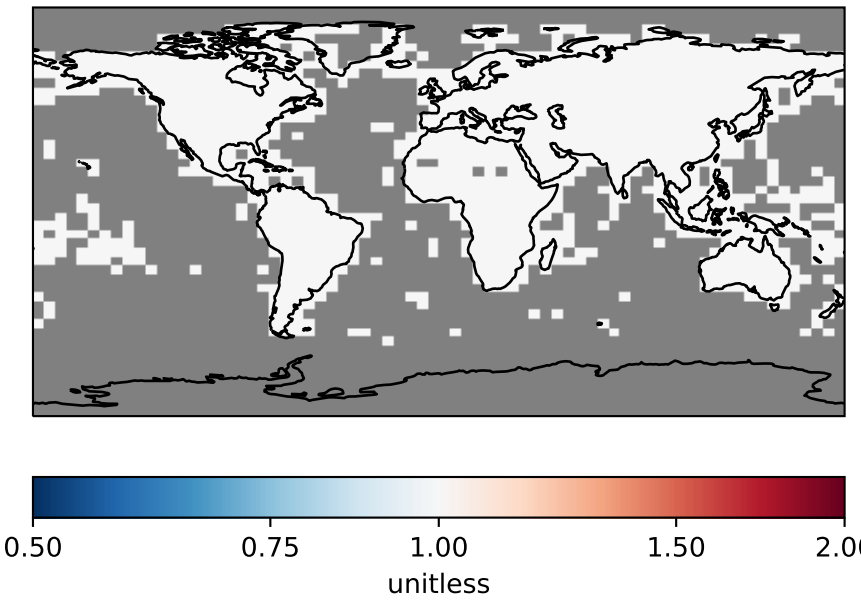
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

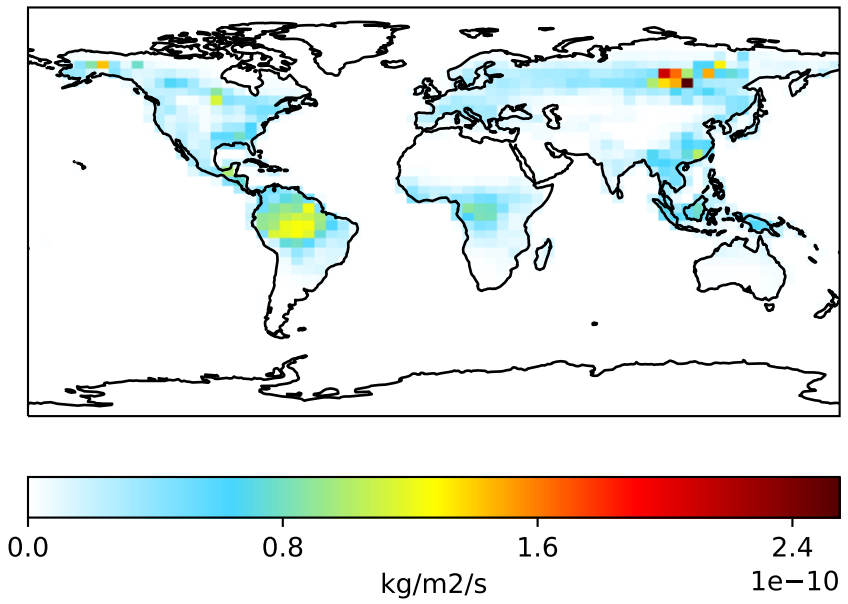


Ratio
Dev/Ref, Fixed Range

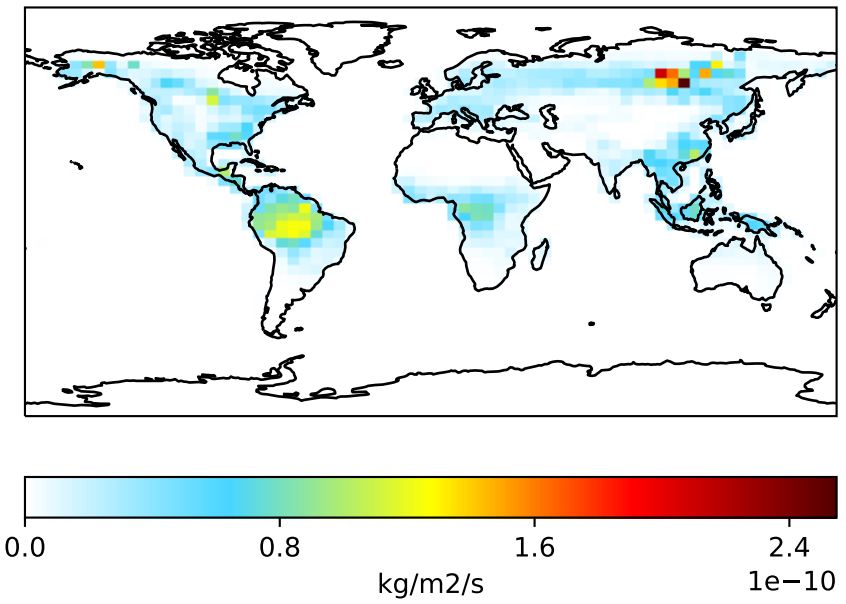


EmisMTPA_Total

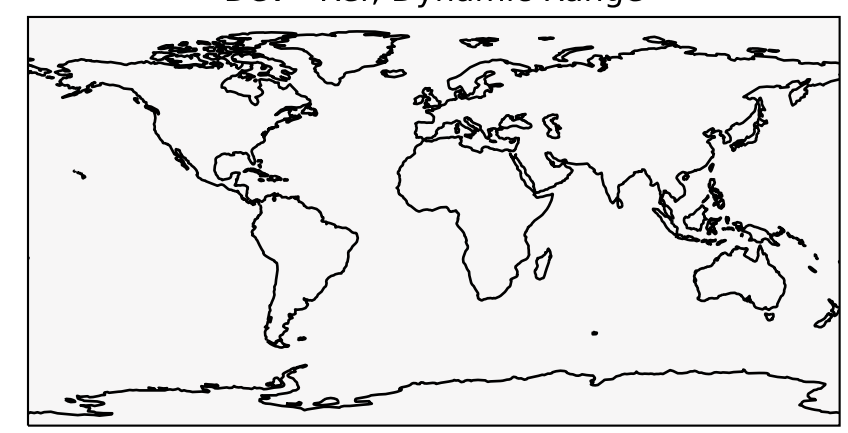
GCC_13.3.0-rc.1 (Ref)
4.0x5.0

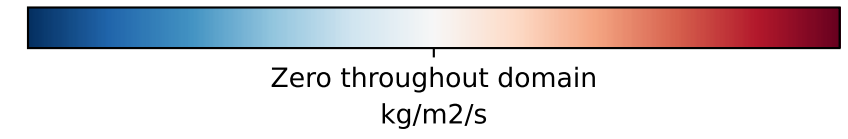


GCC_13.4.0-rc.3 (Dev)
4.0x5.0

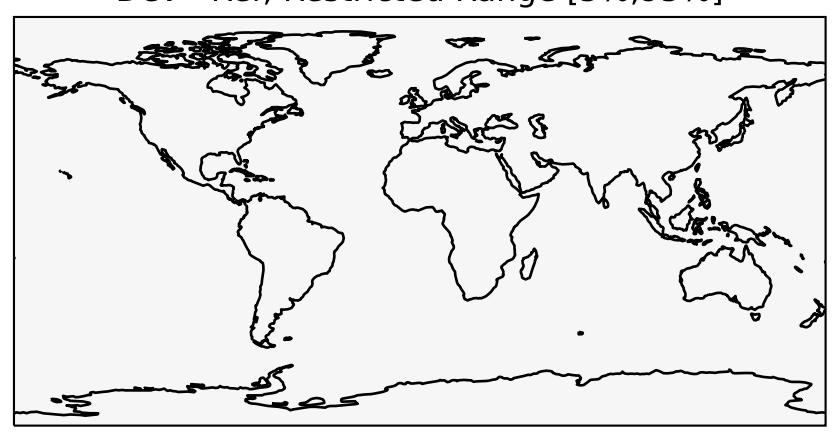


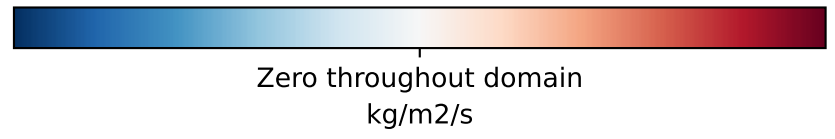
Difference
Dev - Ref, Dynamic Range



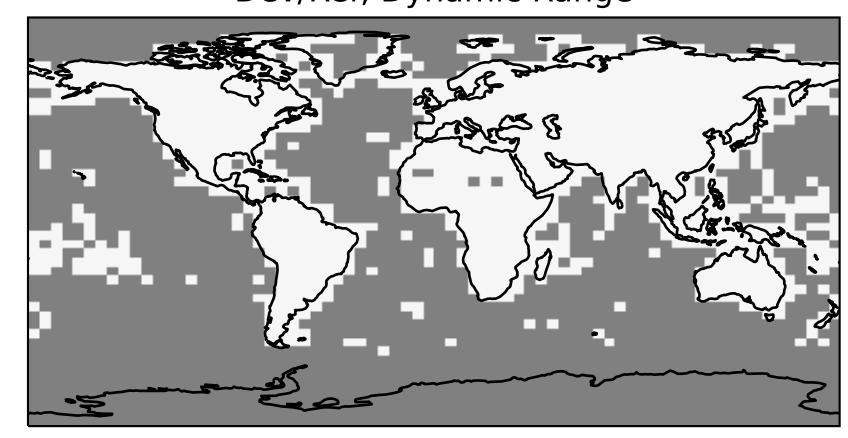


Difference
Dev - Ref, Restricted Range [5%,95%]

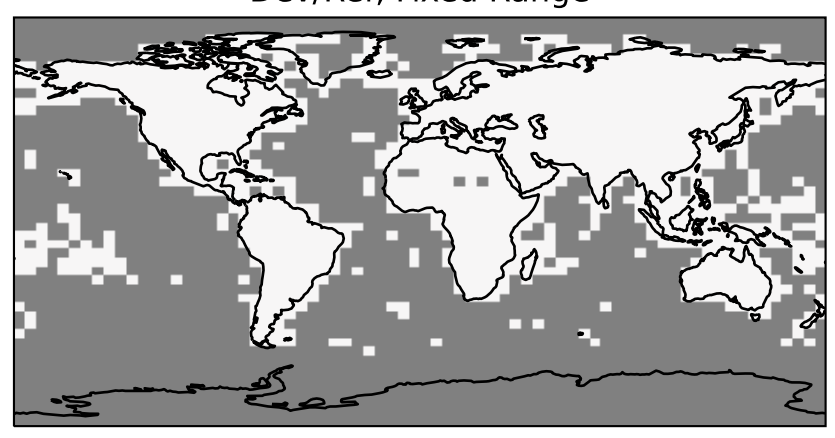


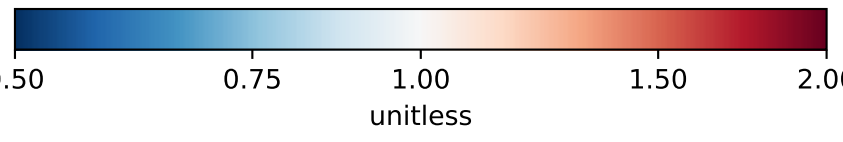


Ratio
Dev/Ref, Dynamic Range



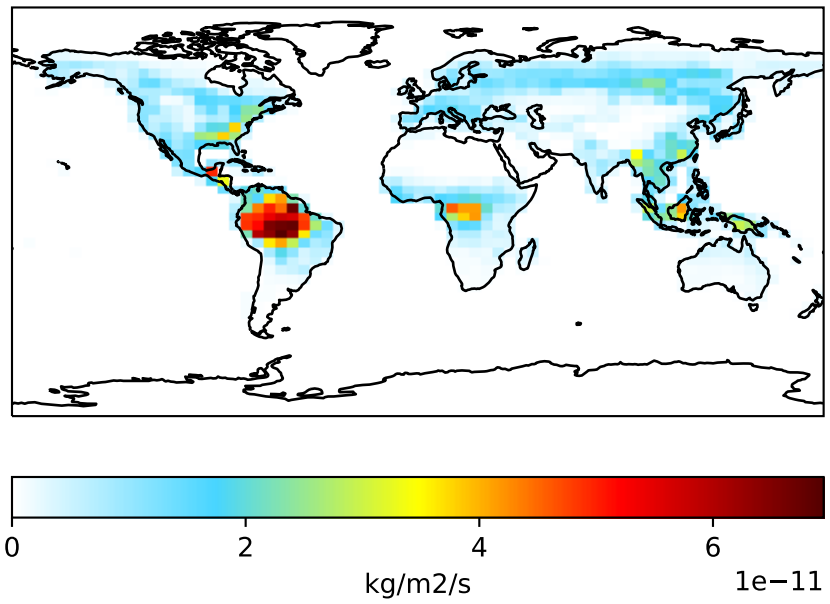
Ratio
Dev/Ref, Fixed Range



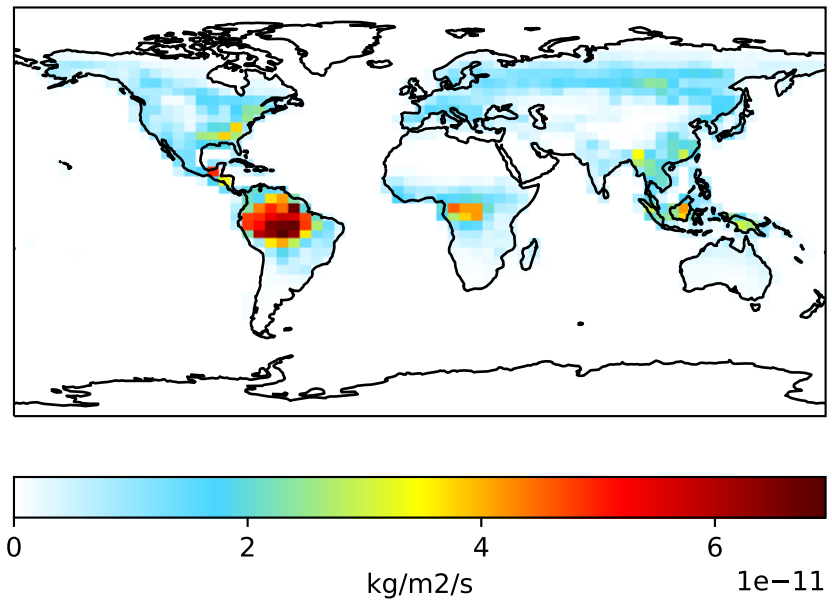


EmisMTPO_Biogenic

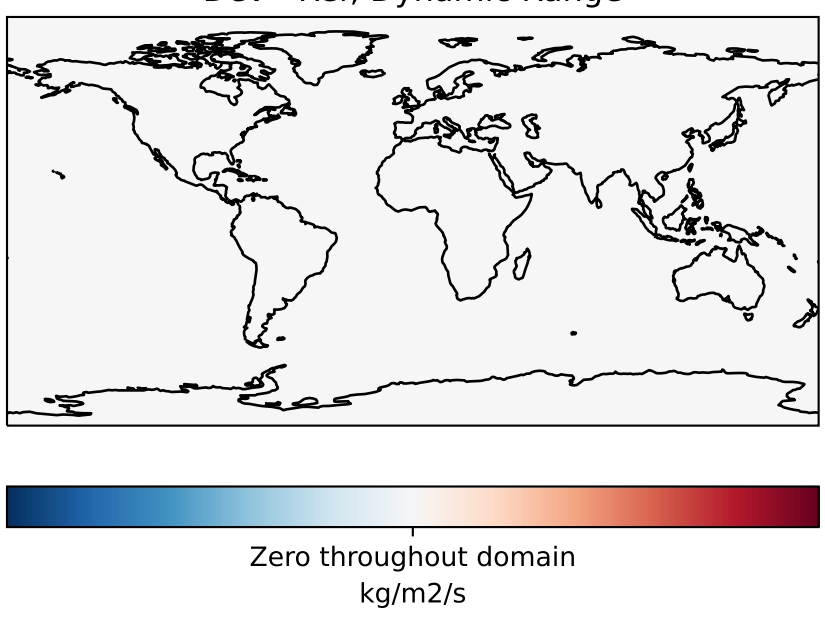
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



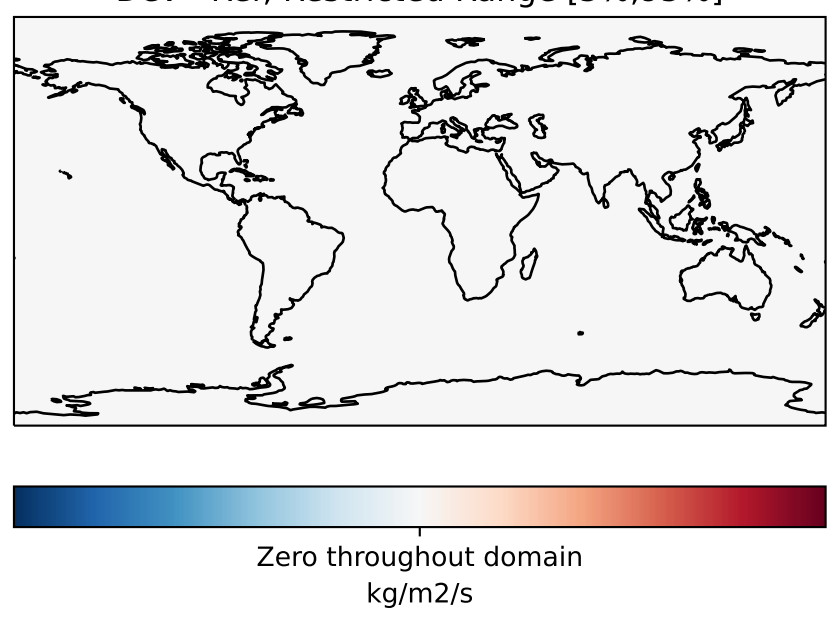
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



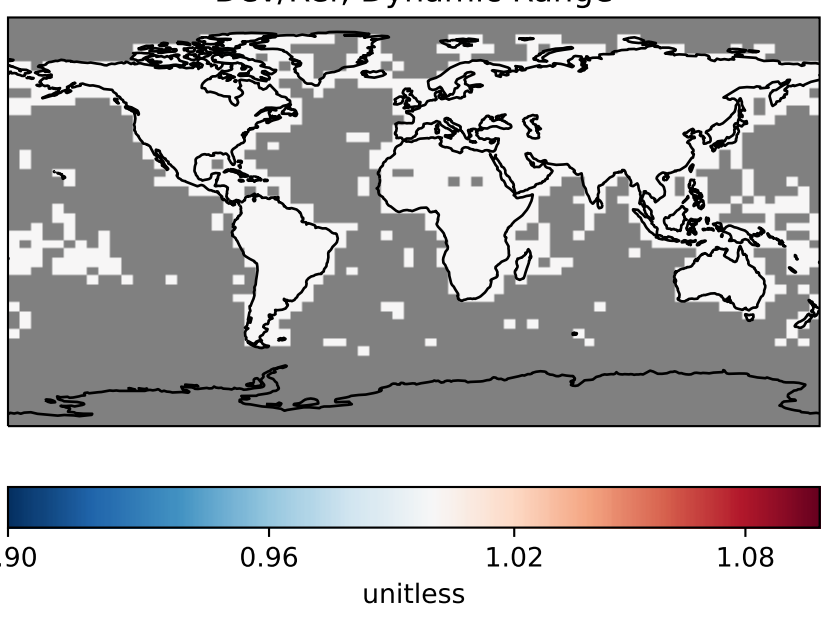
Difference
Dev - Ref, Dynamic Range



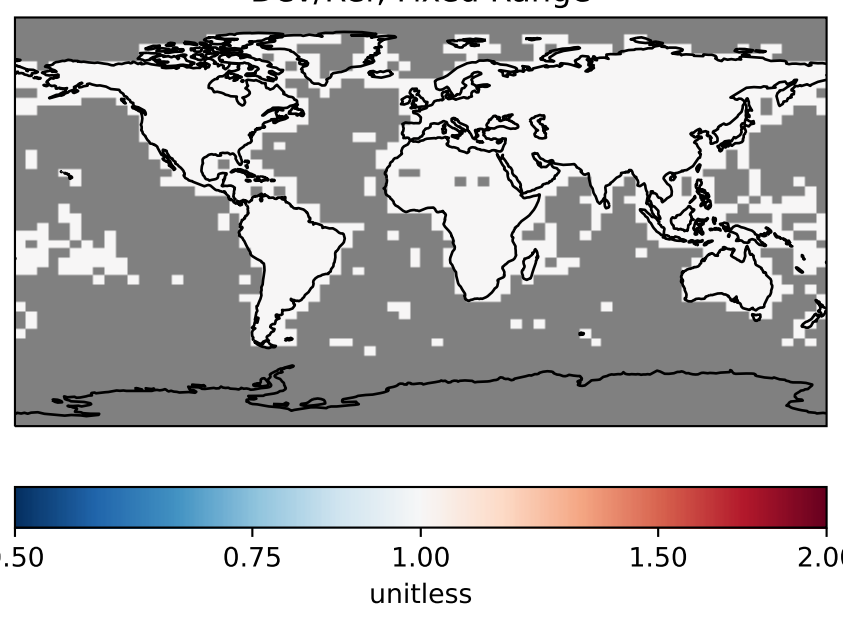
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

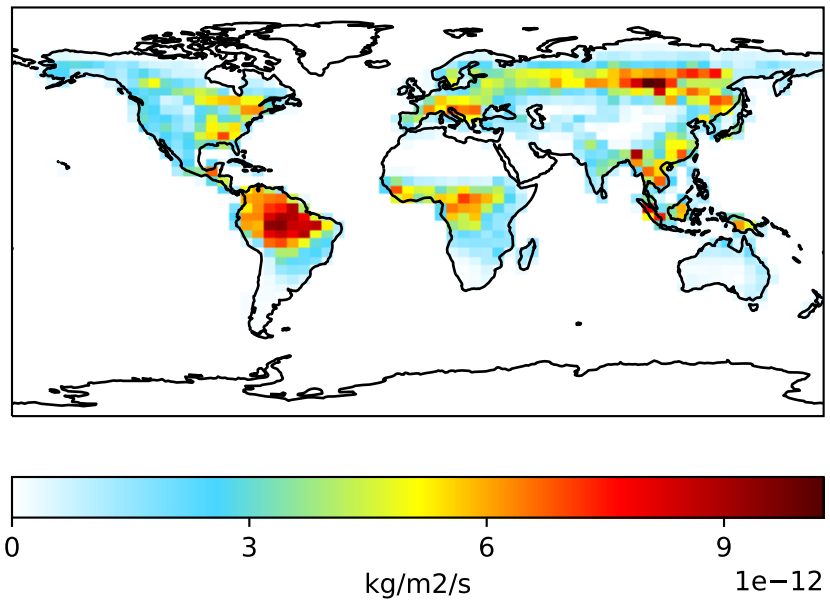


Ratio
Dev/Ref, Fixed Range

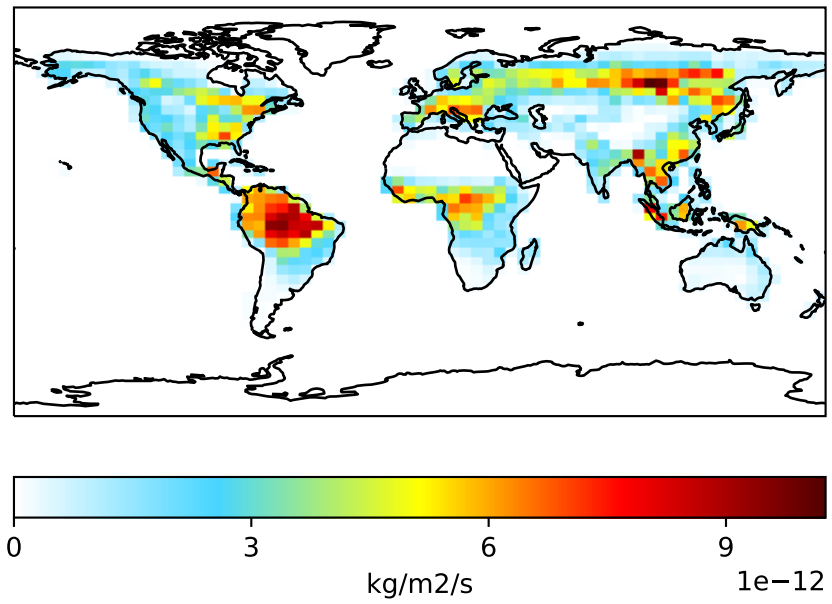


EmisLIMO_Biogenic

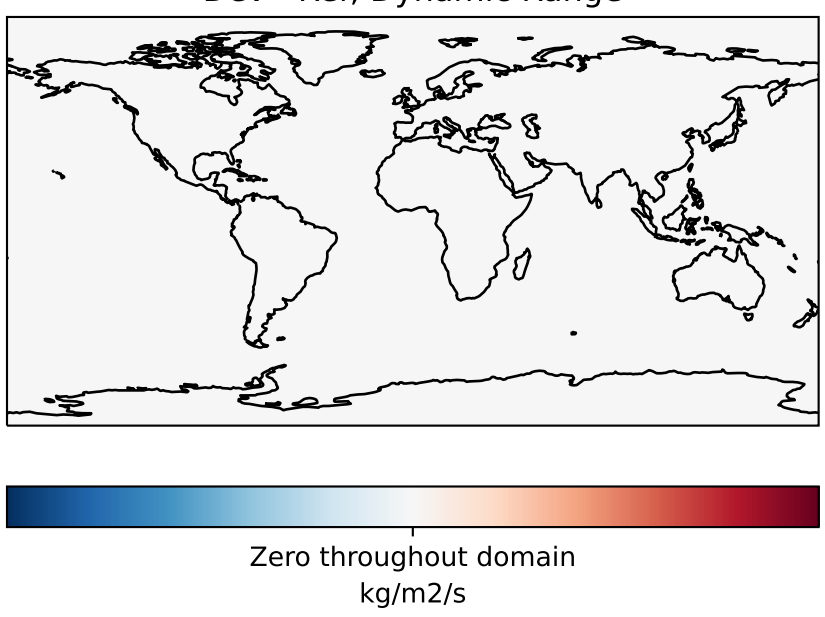
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



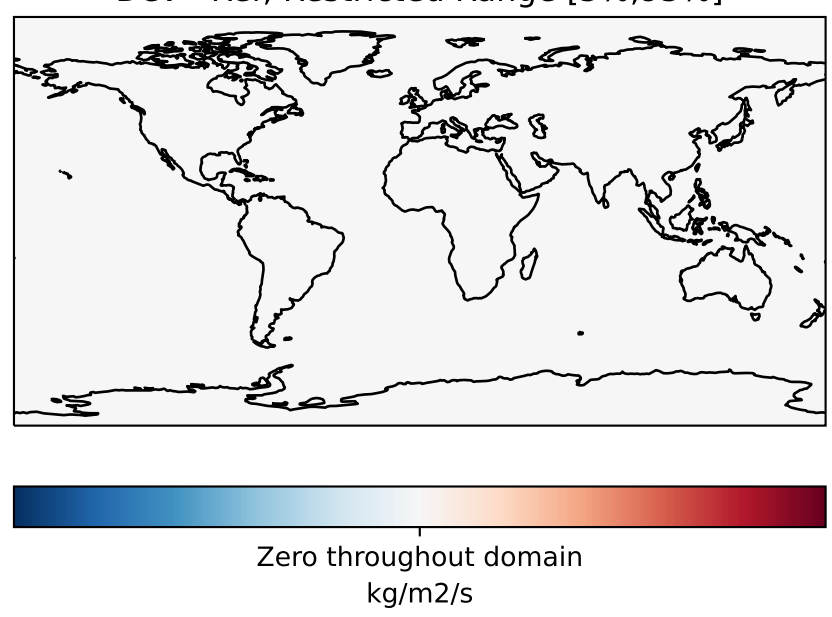
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



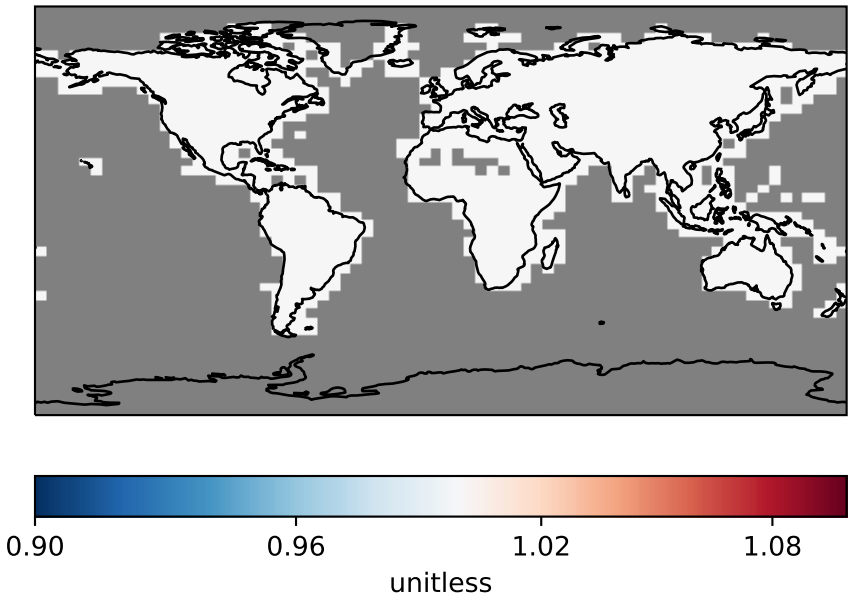
Difference
Dev - Ref, Dynamic Range



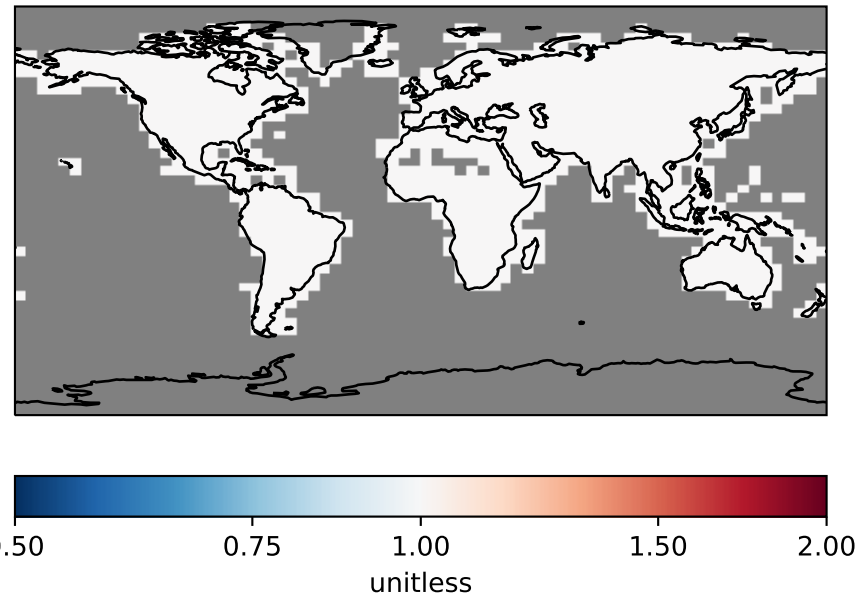
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

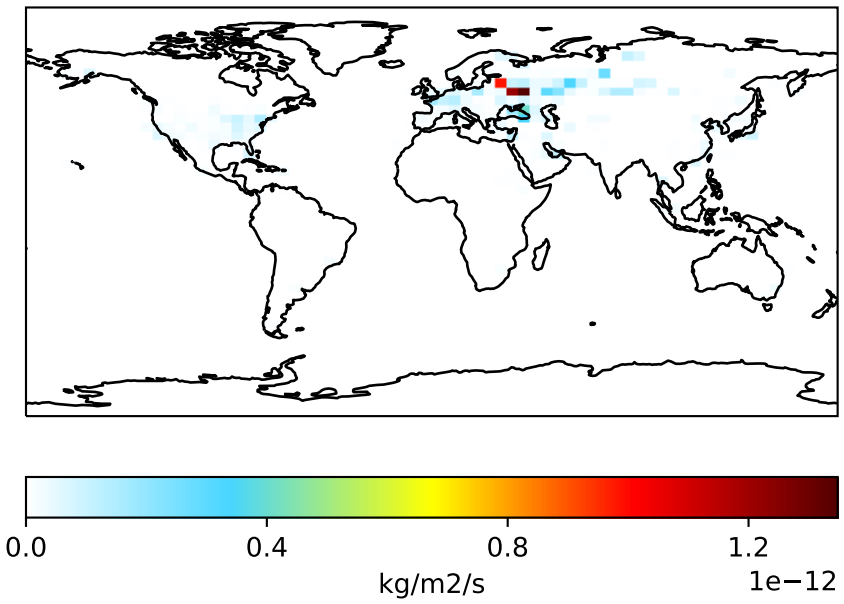


Ratio
Dev/Ref, Fixed Range

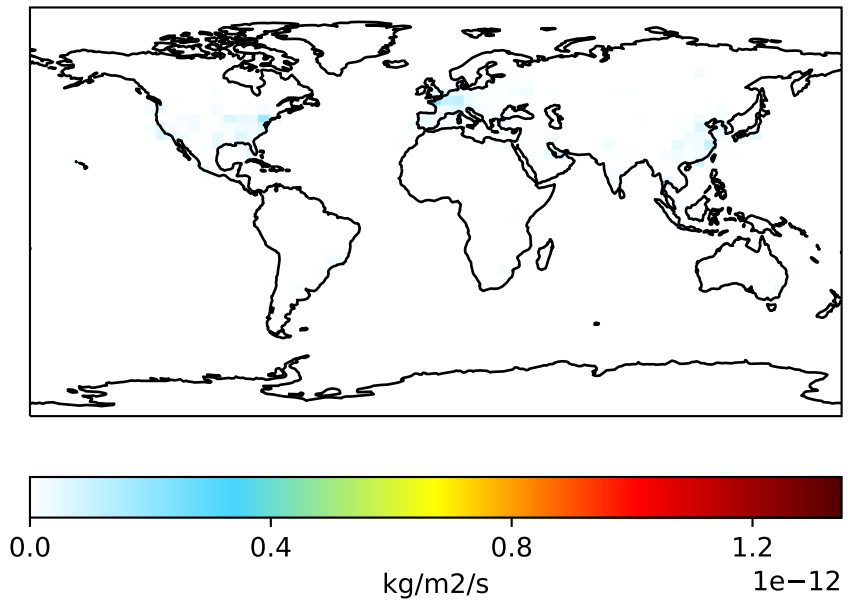


EmisALK4_Aircraft

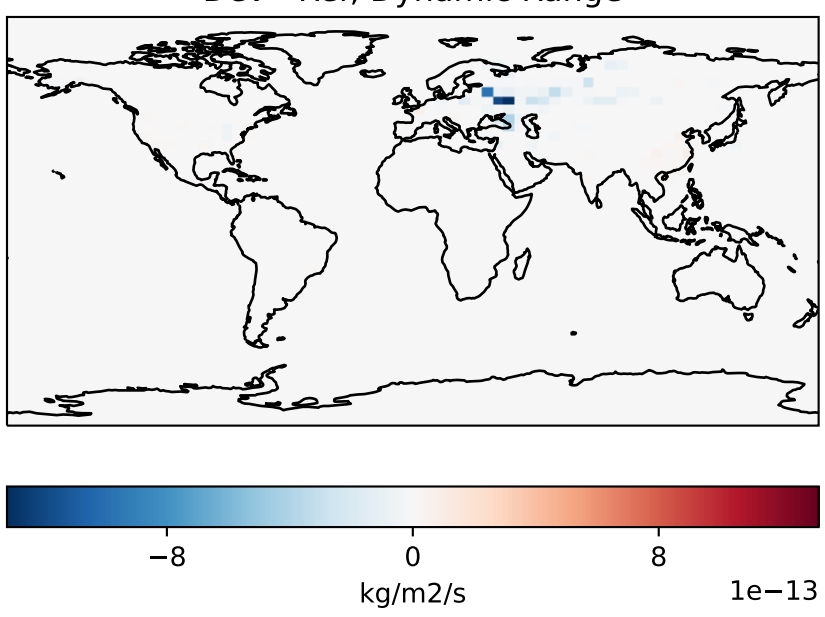
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



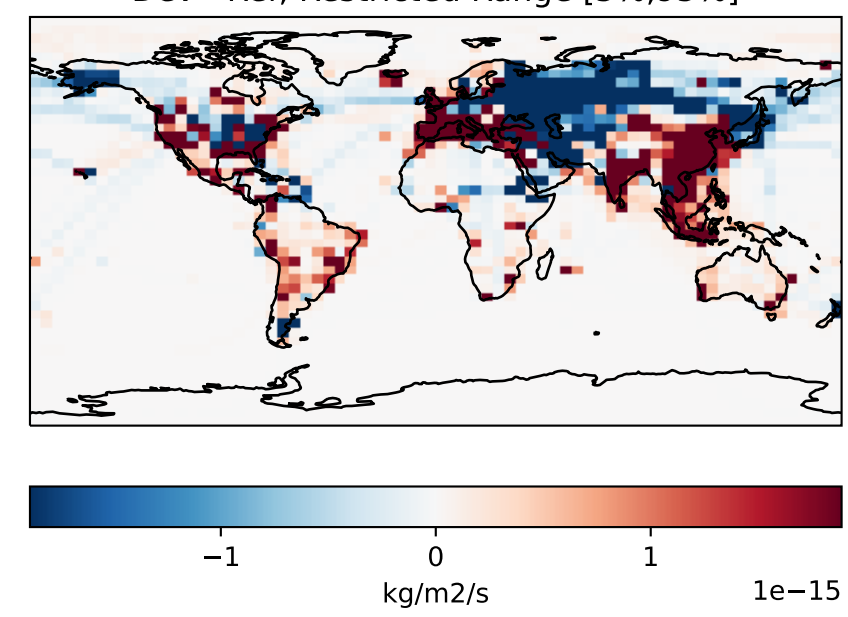
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



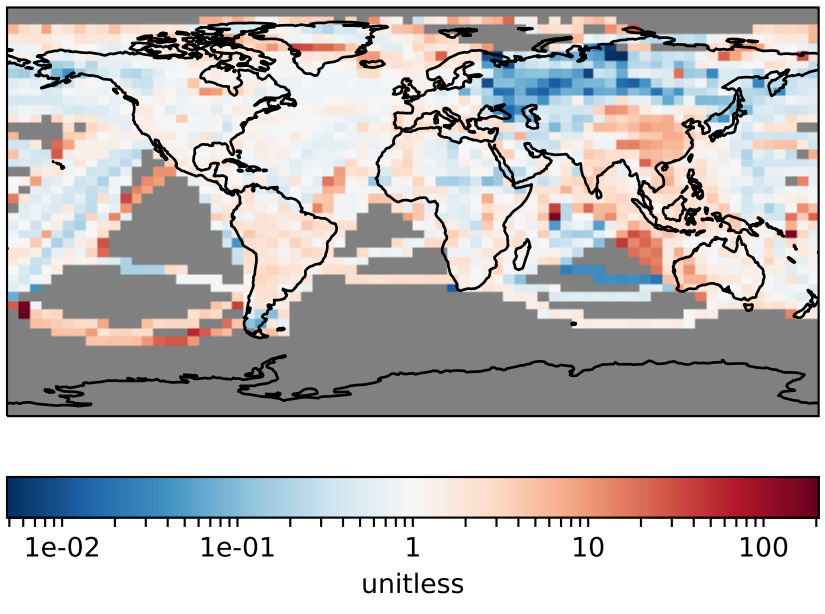
Difference
Dev - Ref, Dynamic Range



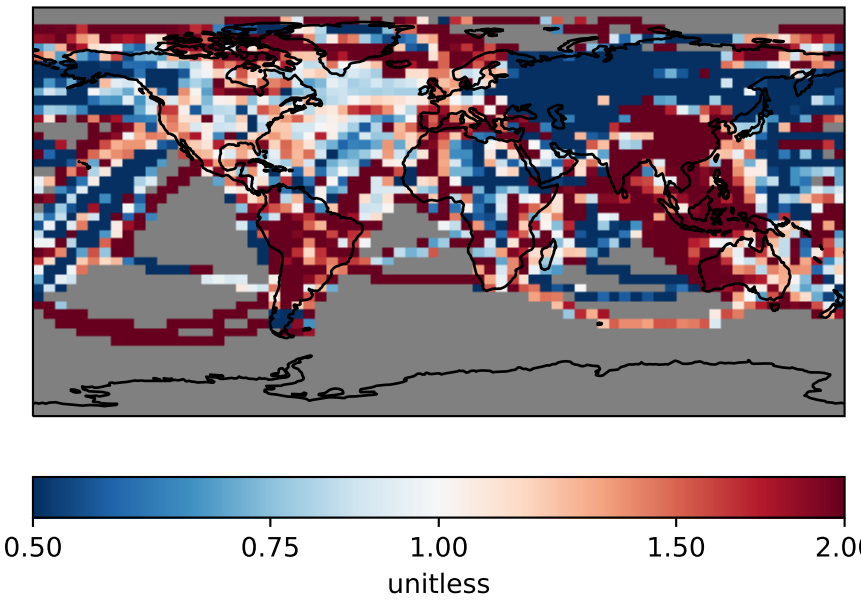
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

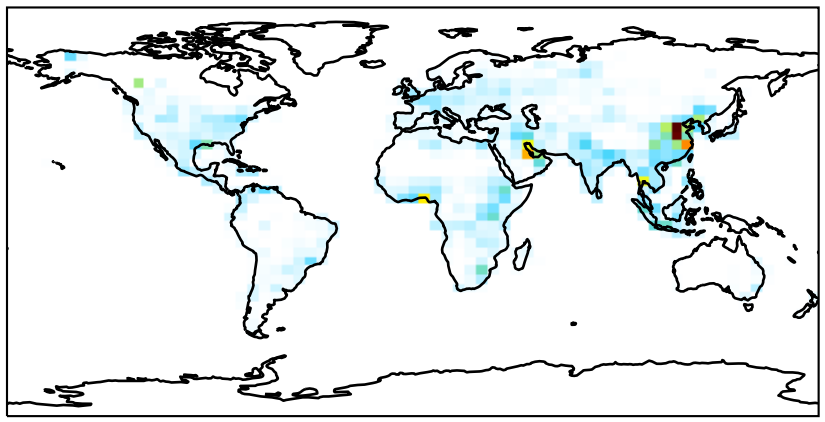


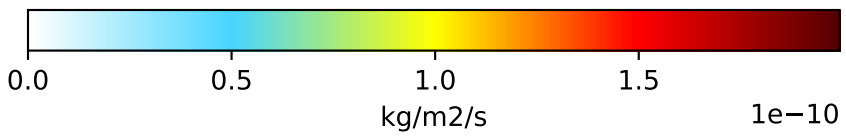
Ratio
Dev/Ref, Fixed Range



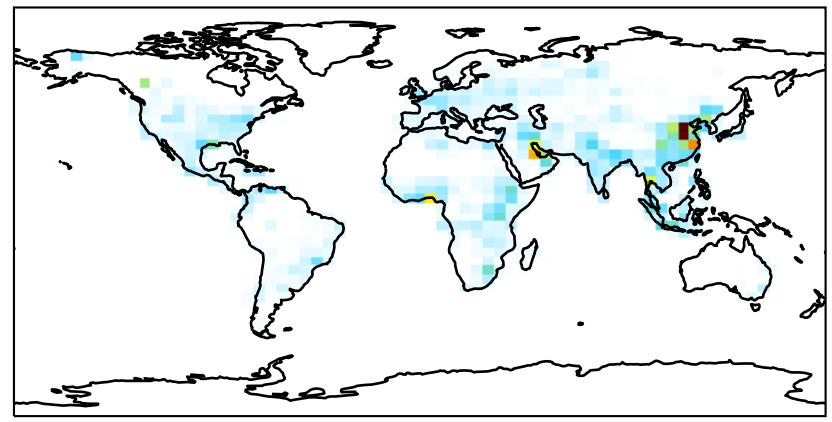
EmisALK4_Anthro

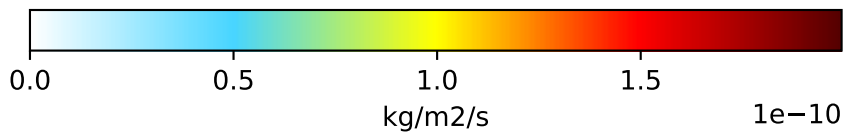
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



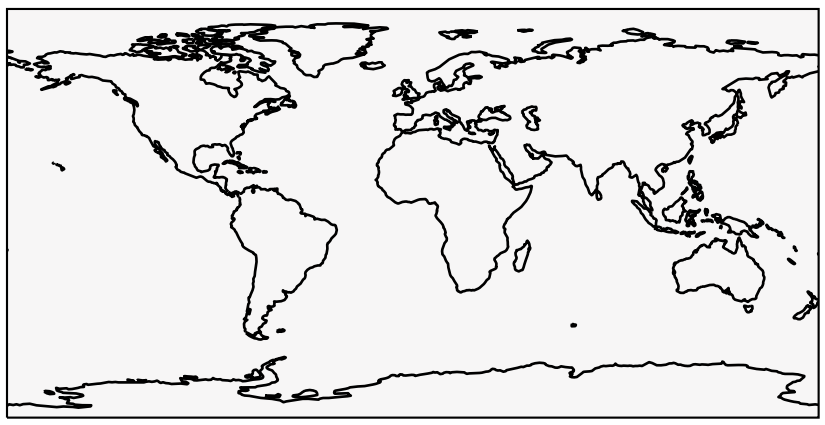


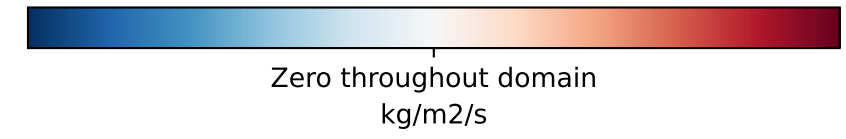
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



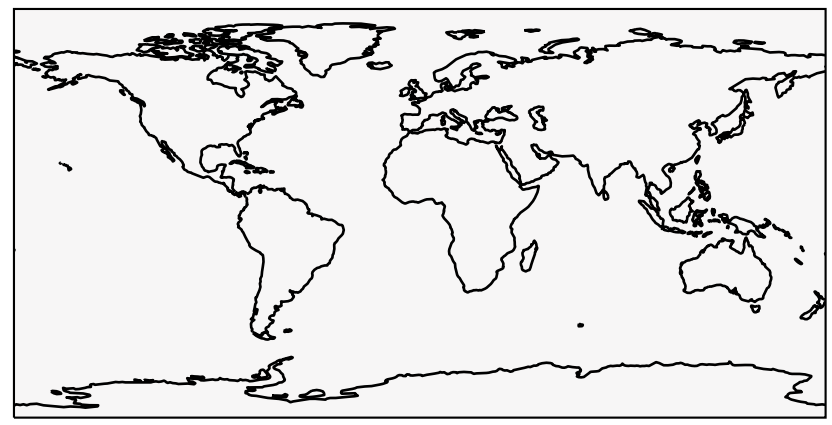


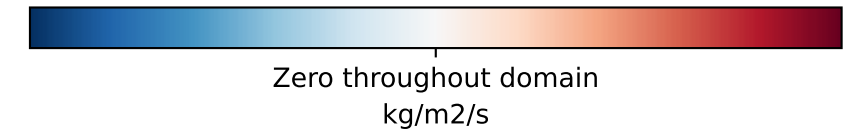
Difference
Dev - Ref, Dynamic Range



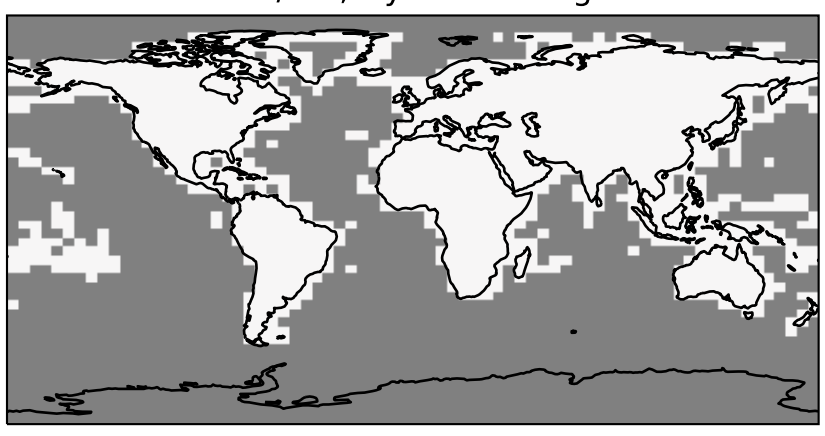


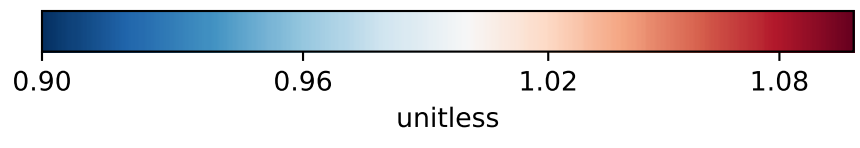
Difference
Dev - Ref, Restricted Range [5%,95%]



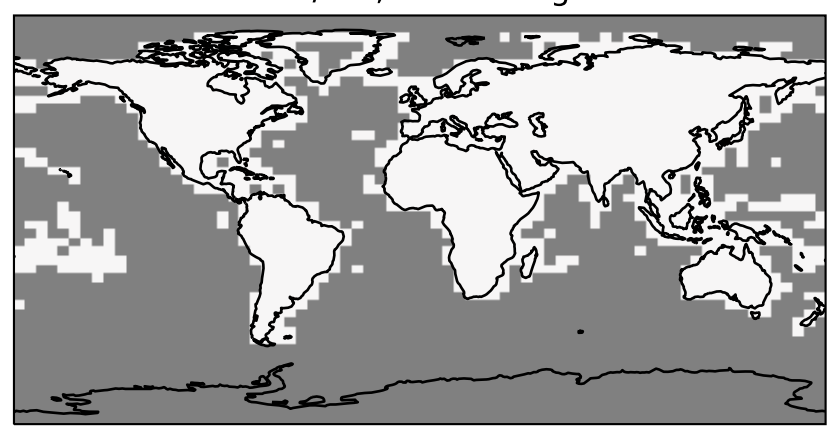


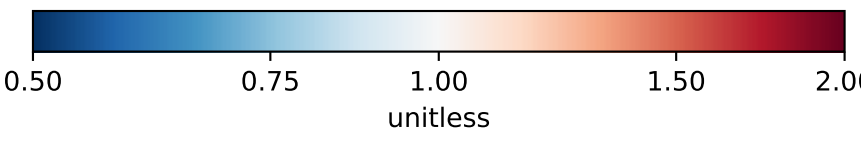
Ratio
Dev/Ref, Dynamic Range





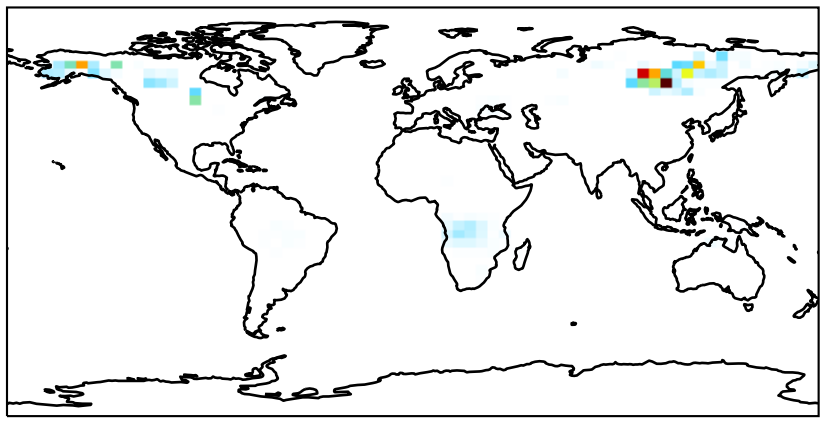
Ratio
Dev/Ref, Fixed Range

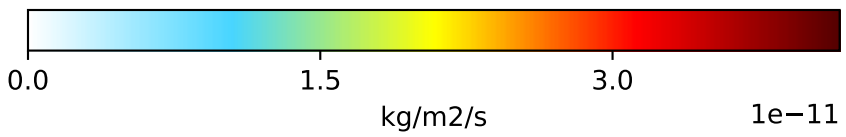




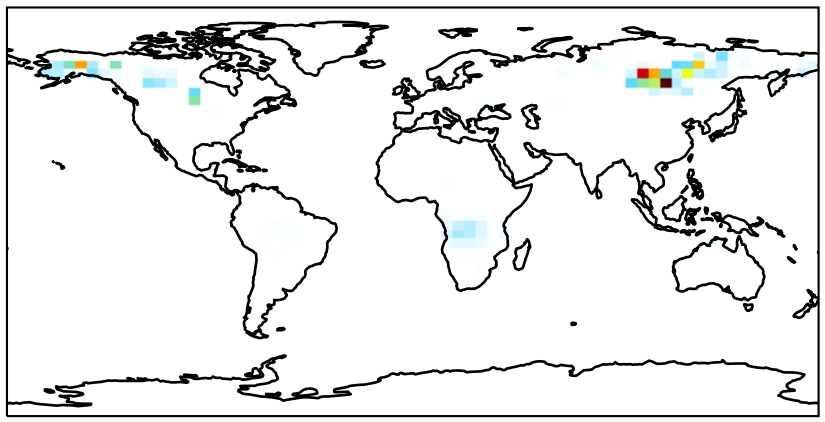
EmisALK4_BioBurn

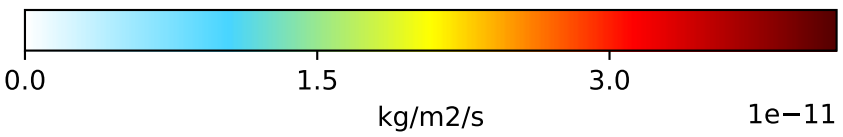
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



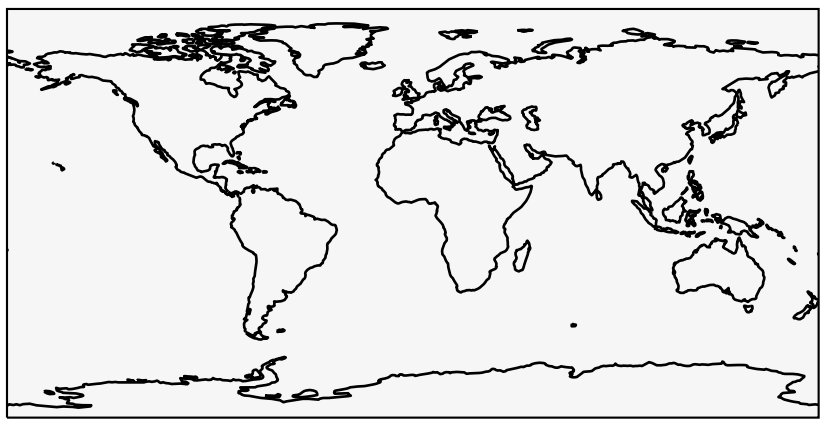


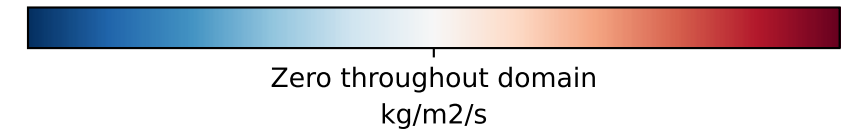
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



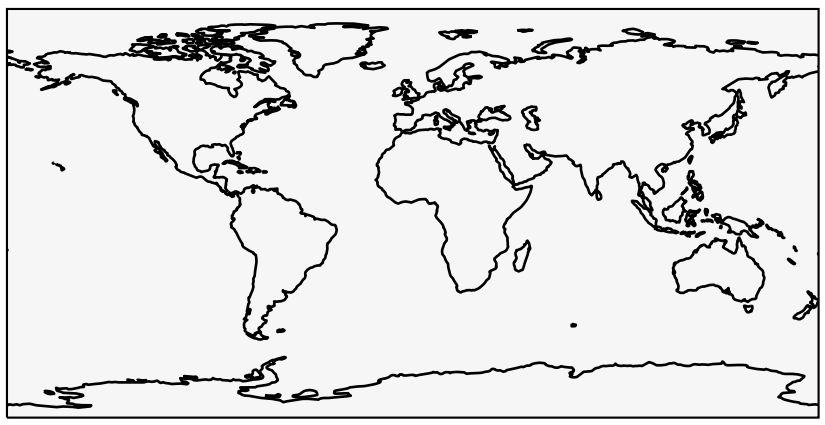


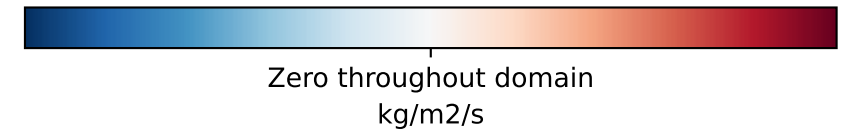
Difference
Dev - Ref, Dynamic Range



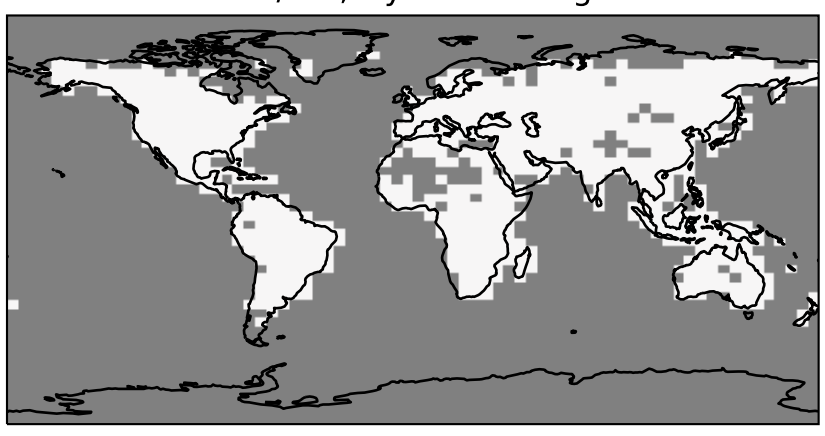


Difference
Dev - Ref, Restricted Range [5%,95%]

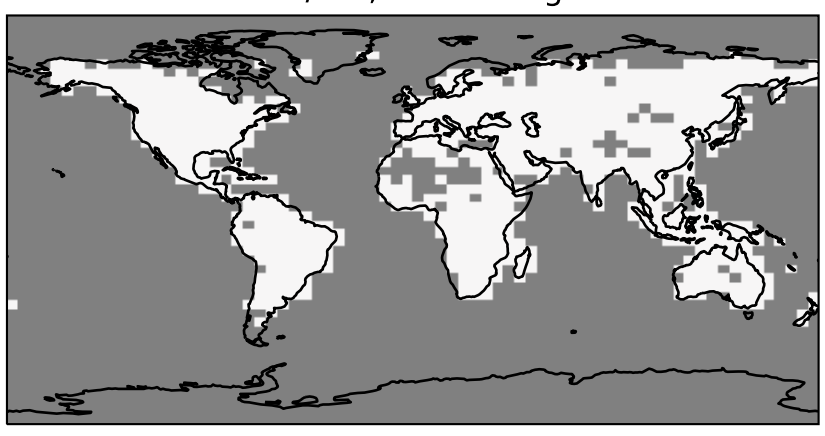


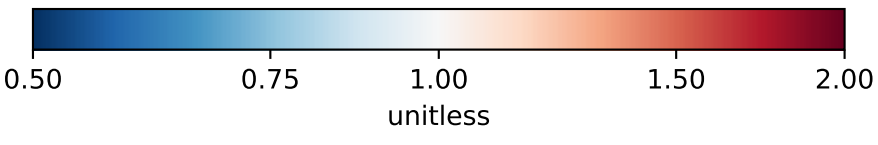


Ratio
Dev/Ref, Dynamic Range



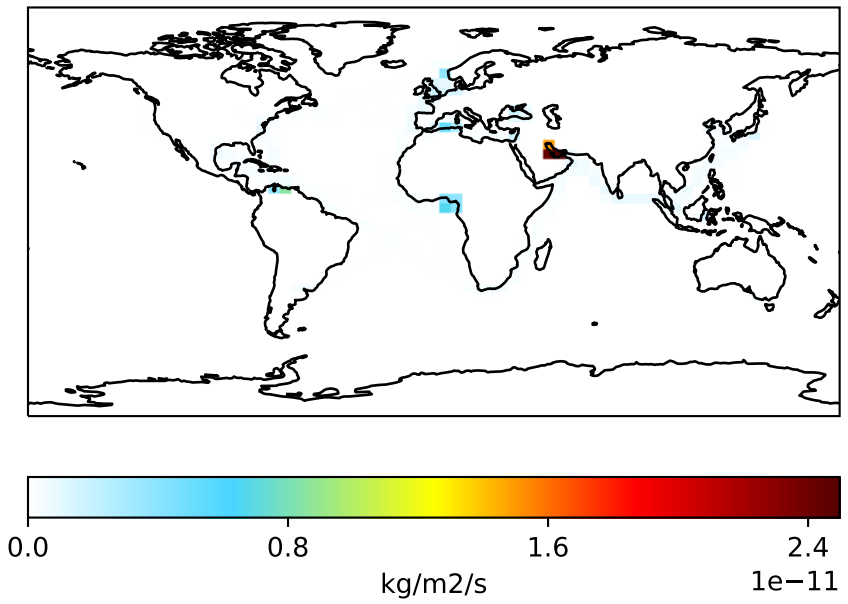
Ratio
Dev/Ref, Fixed Range



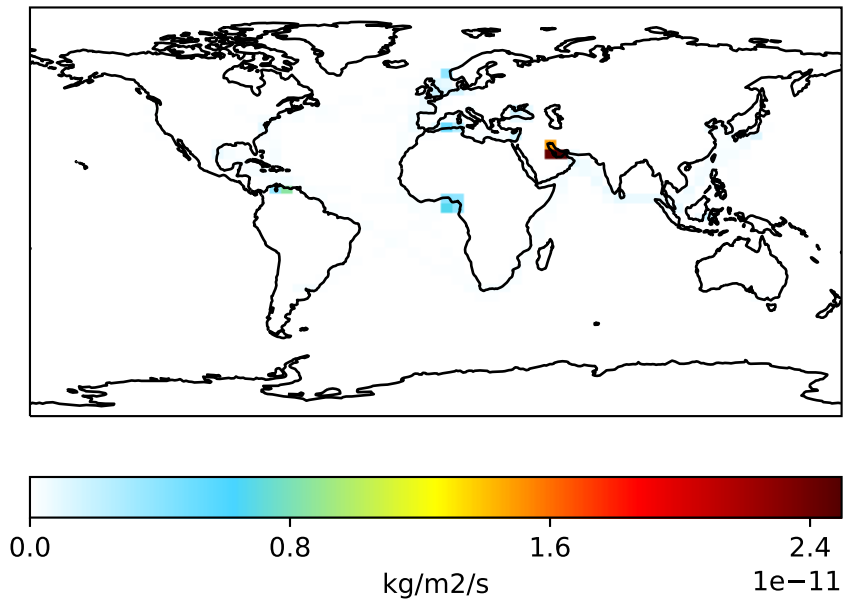


EmisALK4_Ship

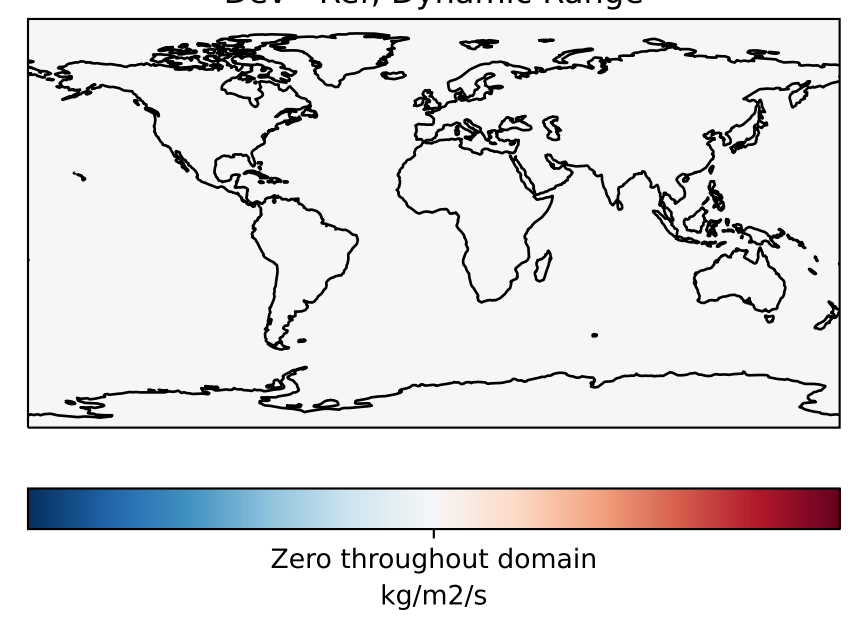
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



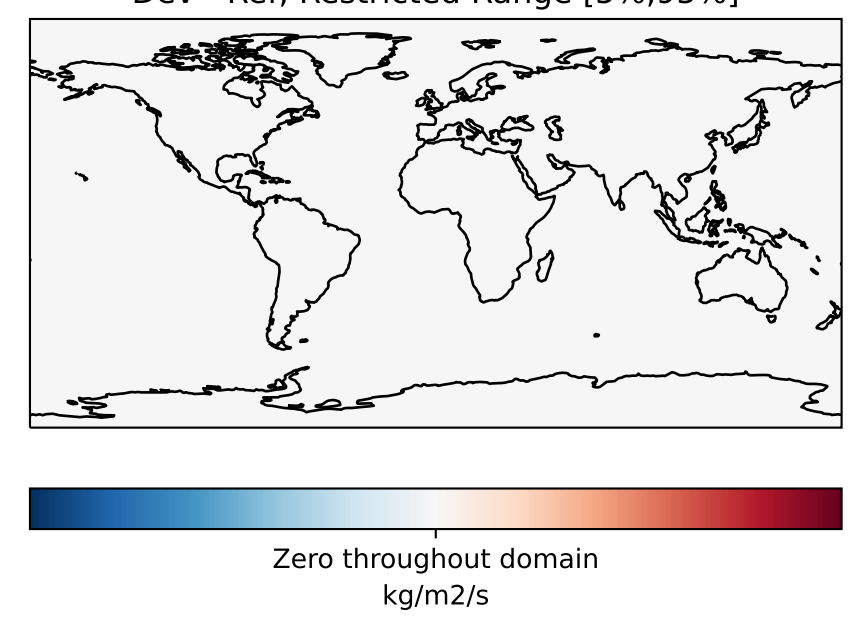
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



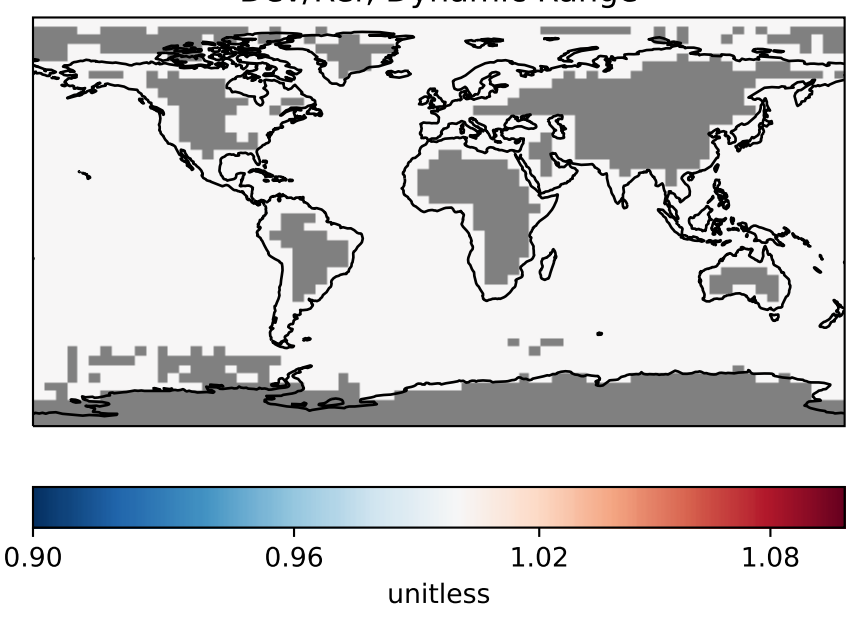
Difference
Dev - Ref, Dynamic Range



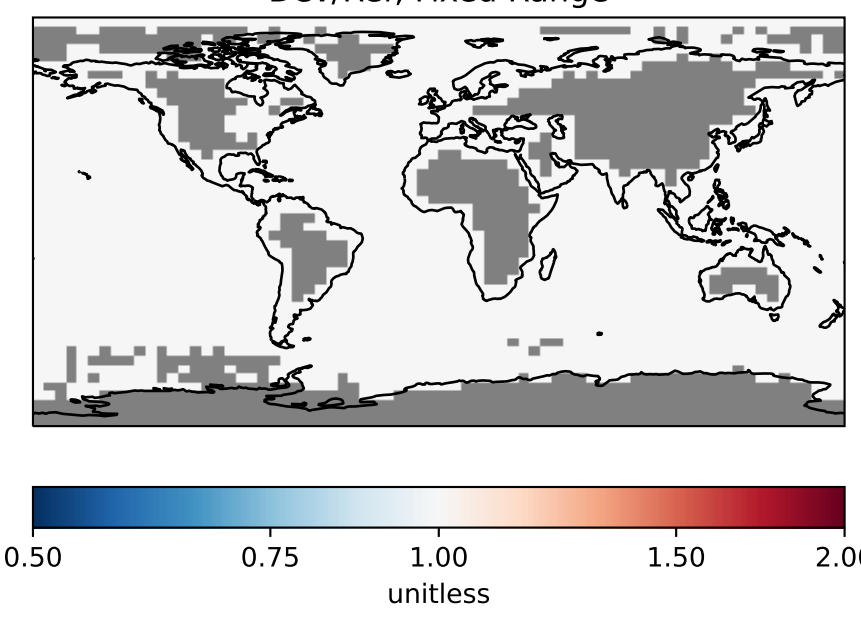
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

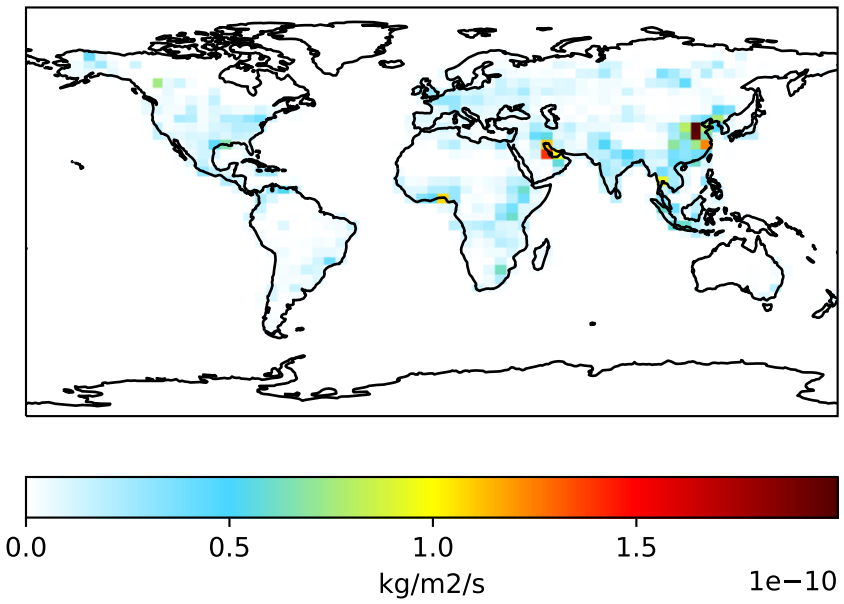


Ratio
Dev/Ref, Fixed Range

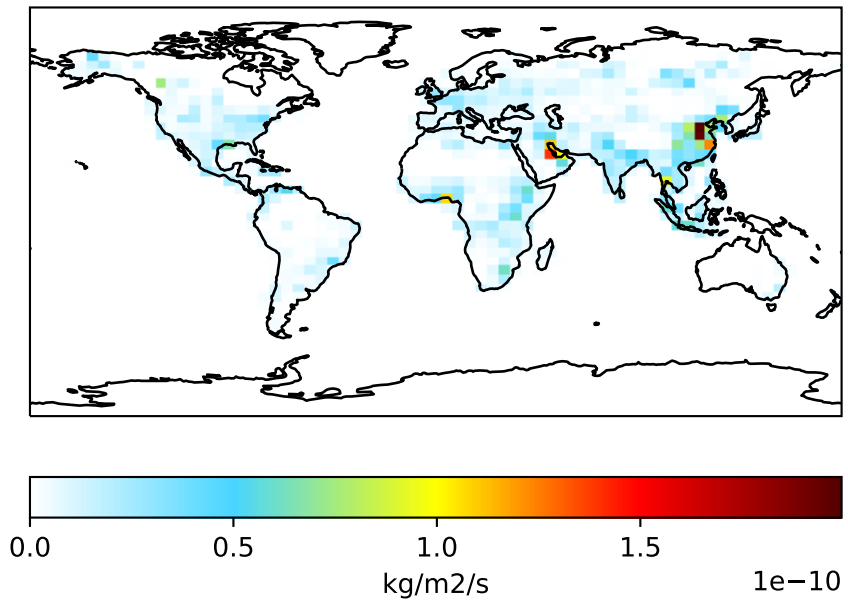


EmisALK4_Total

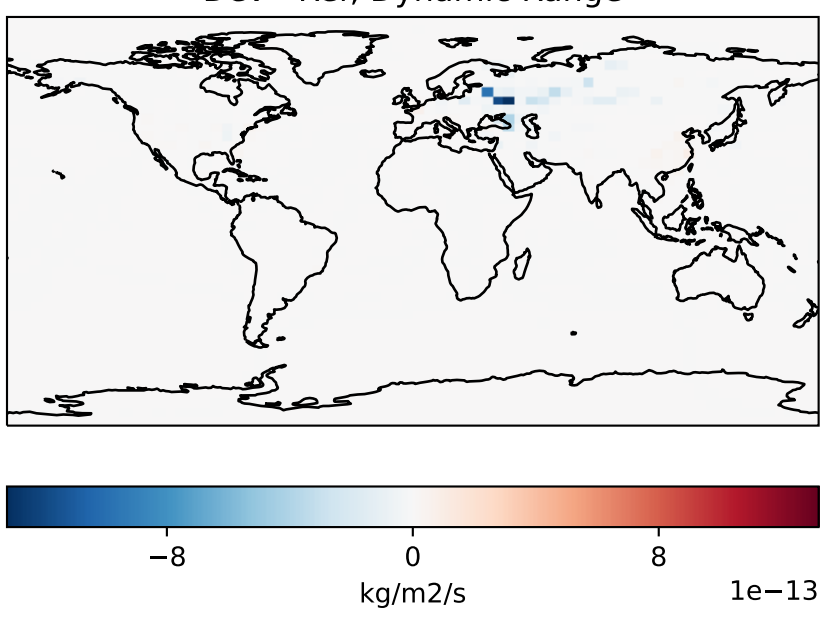
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



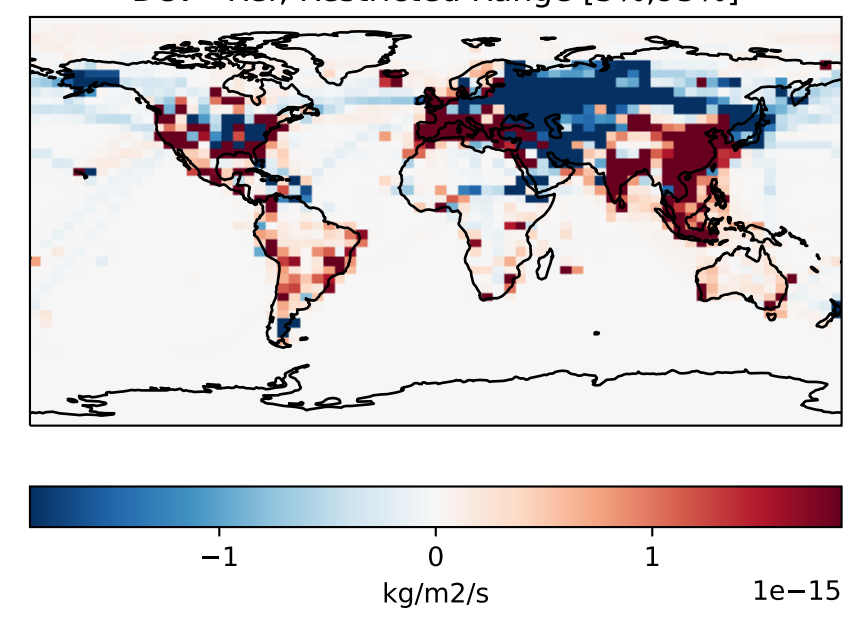
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



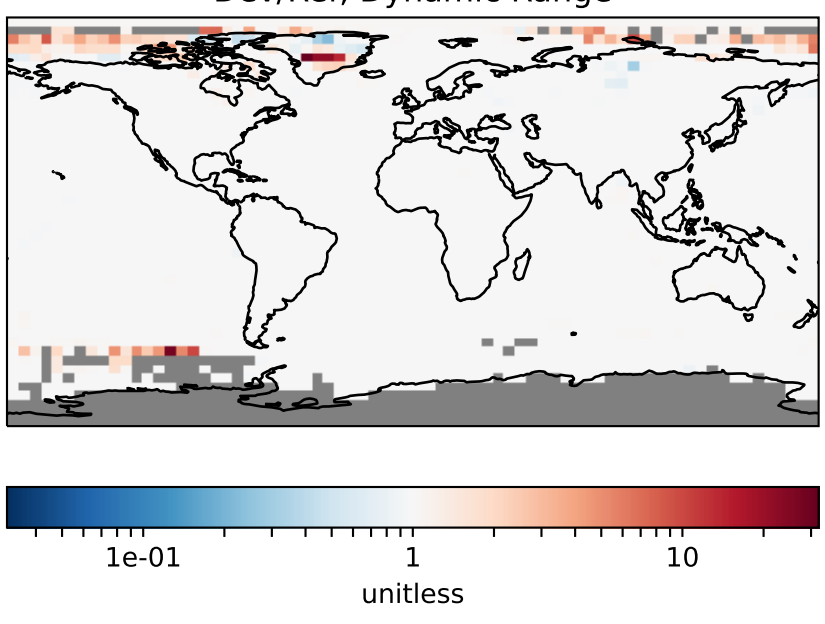
Difference
Dev - Ref, Dynamic Range



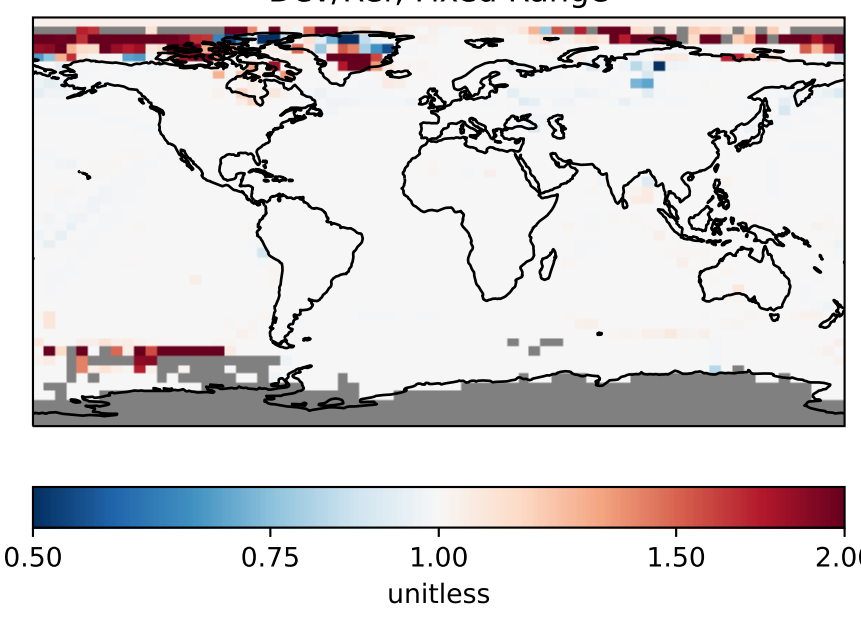
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

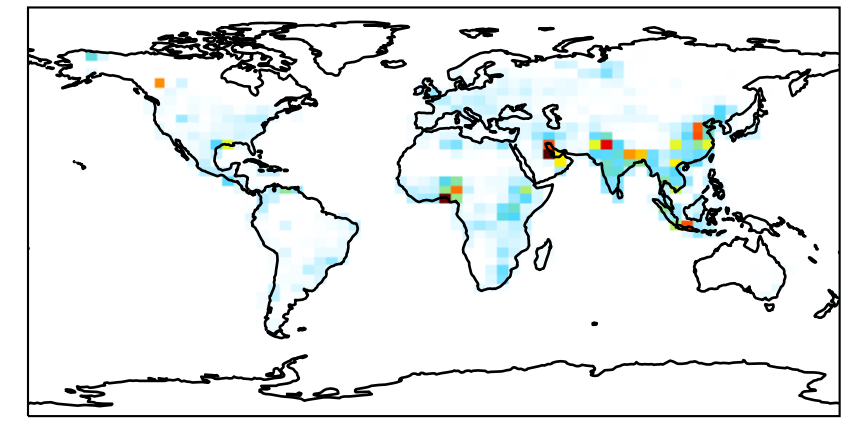


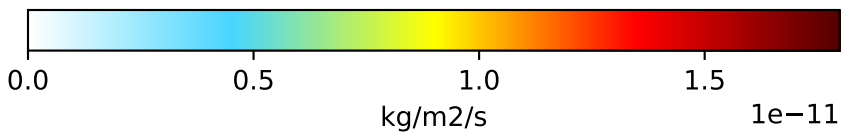
Ratio
Dev/Ref, Fixed Range



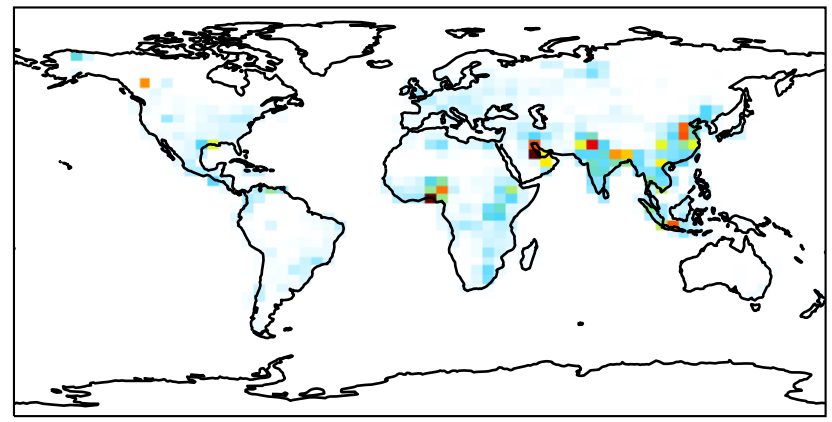
EmisBENZ_Anthro

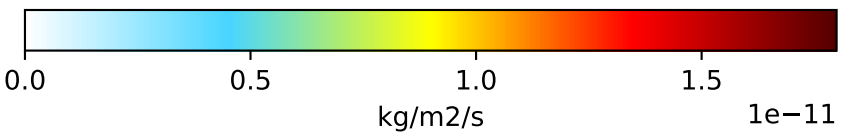
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



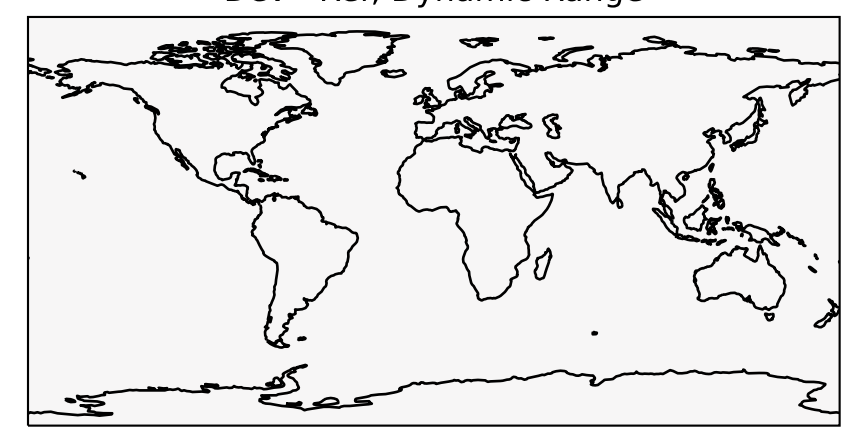


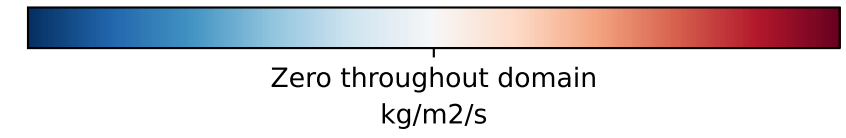
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



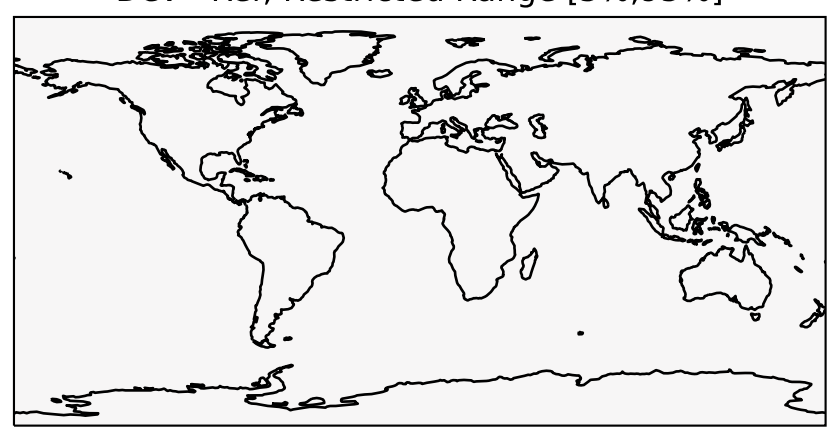


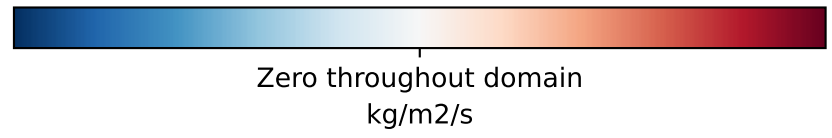
Difference
Dev - Ref, Dynamic Range



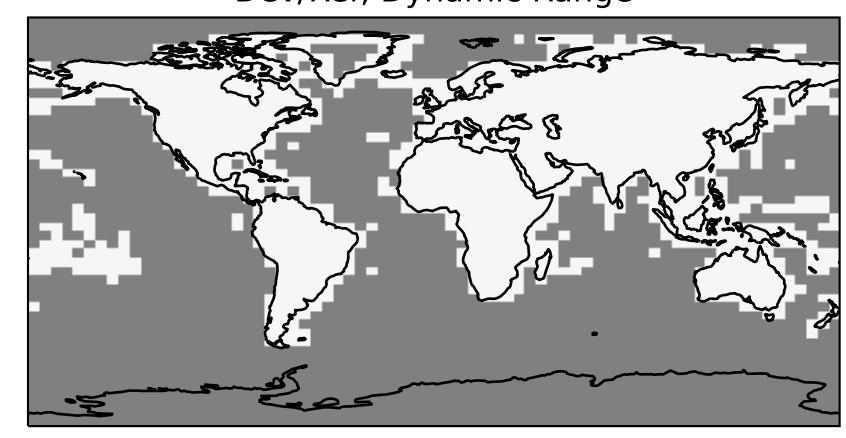


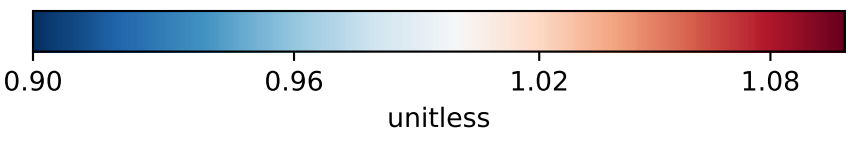
Difference
Dev - Ref, Restricted Range [5%,95%]



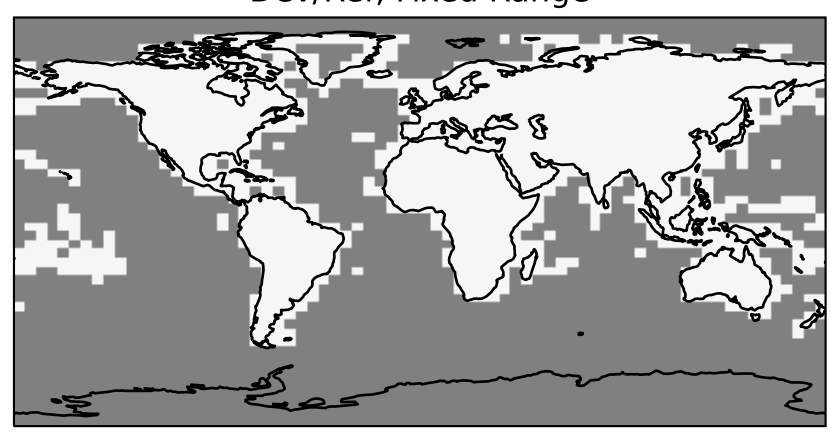


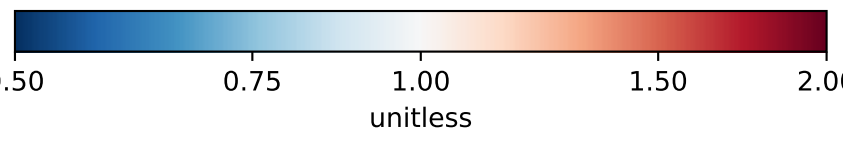
Ratio
Dev/Ref, Dynamic Range





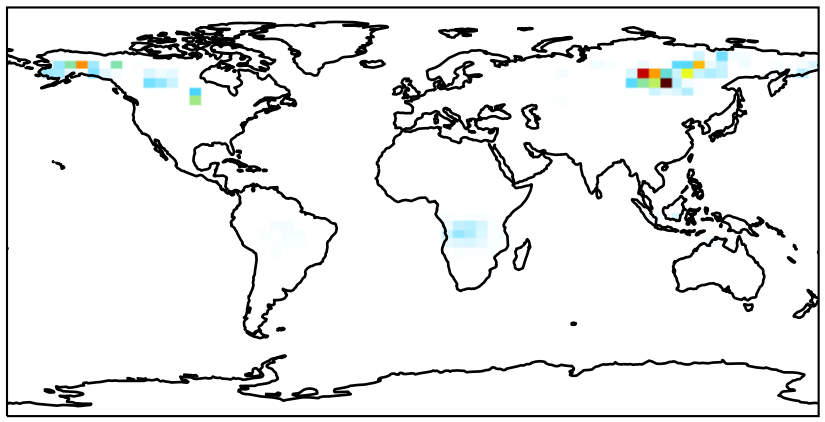
Ratio
Dev/Ref, Fixed Range

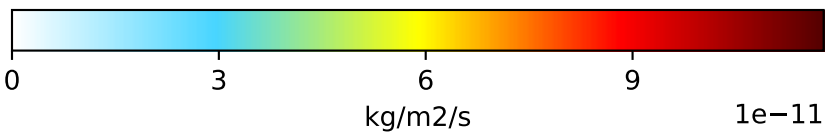




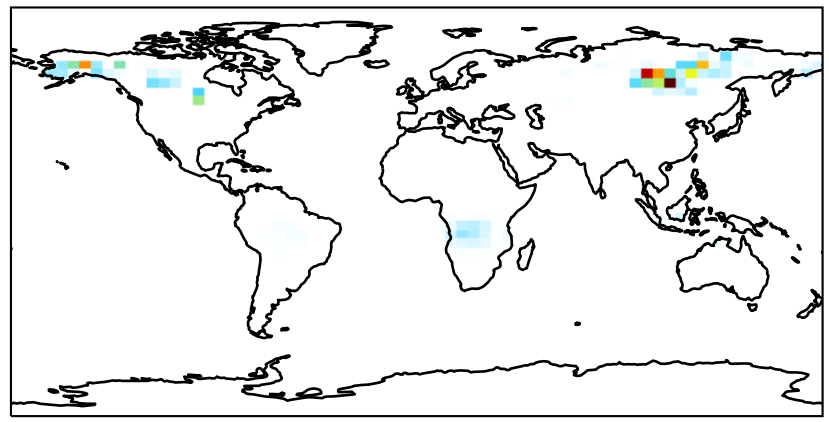
EmisBENZ_BioBurn

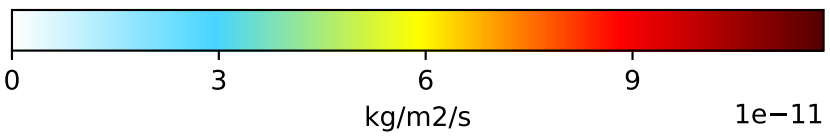
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



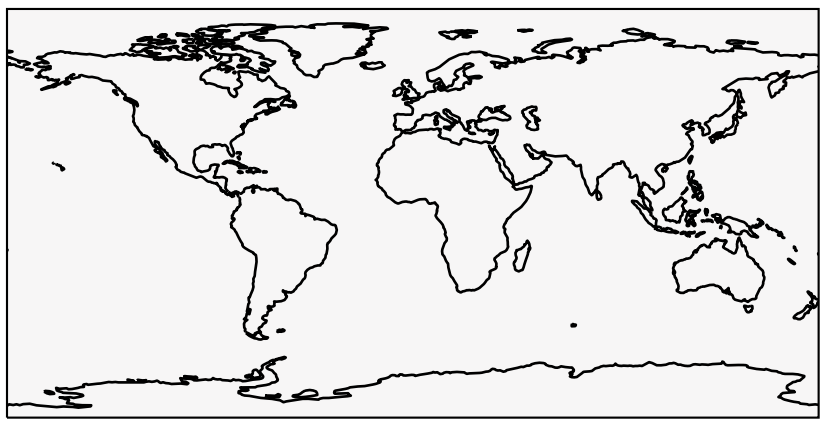


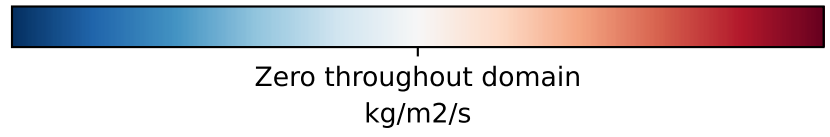
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



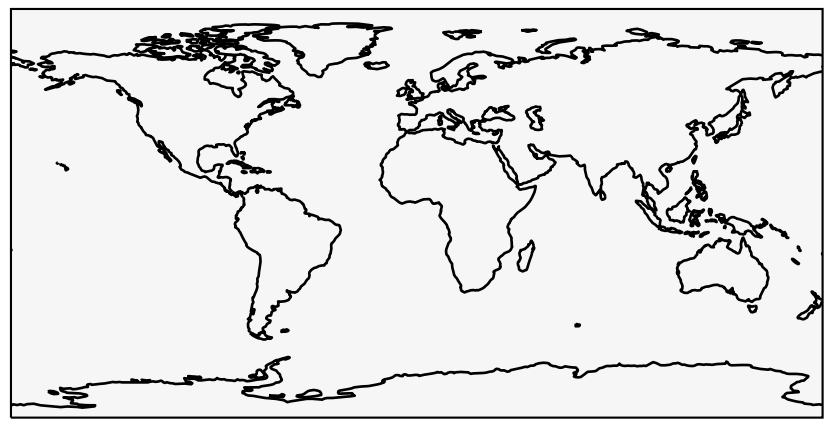


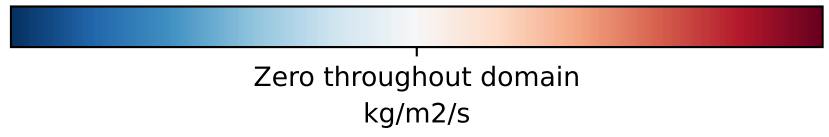
Difference
Dev - Ref, Dynamic Range



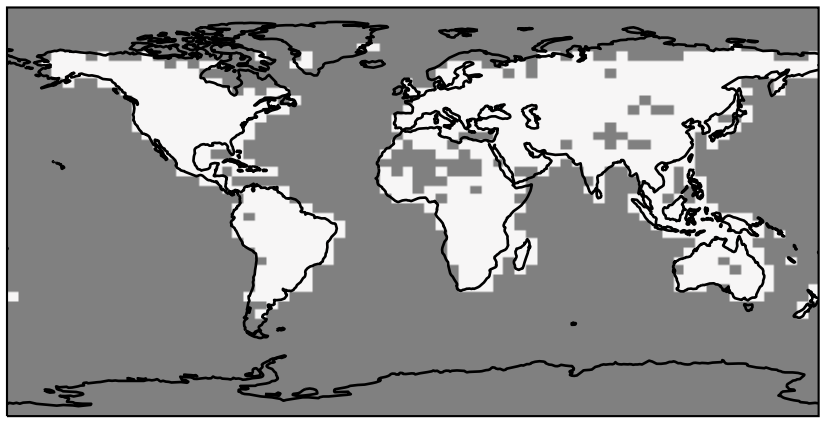


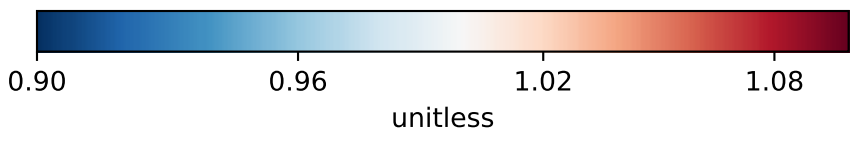
Difference
Dev - Ref, Restricted Range [5%,95%]



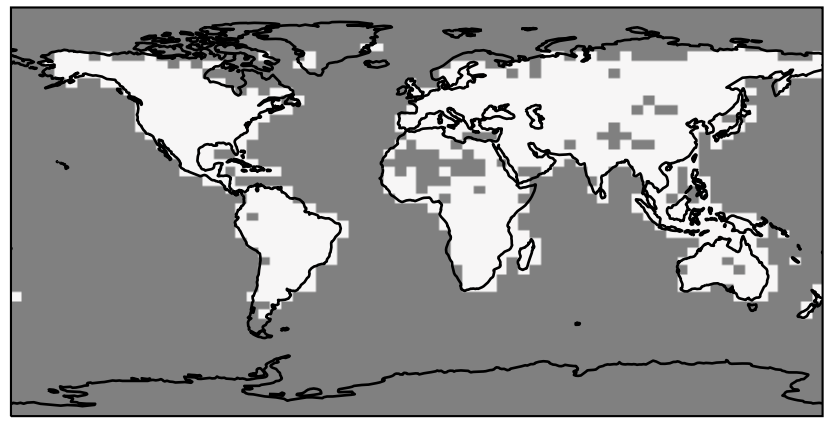


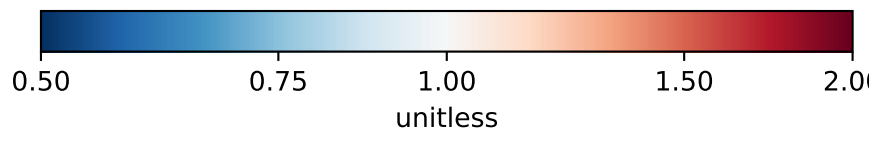
Ratio
Dev/Ref, Dynamic Range





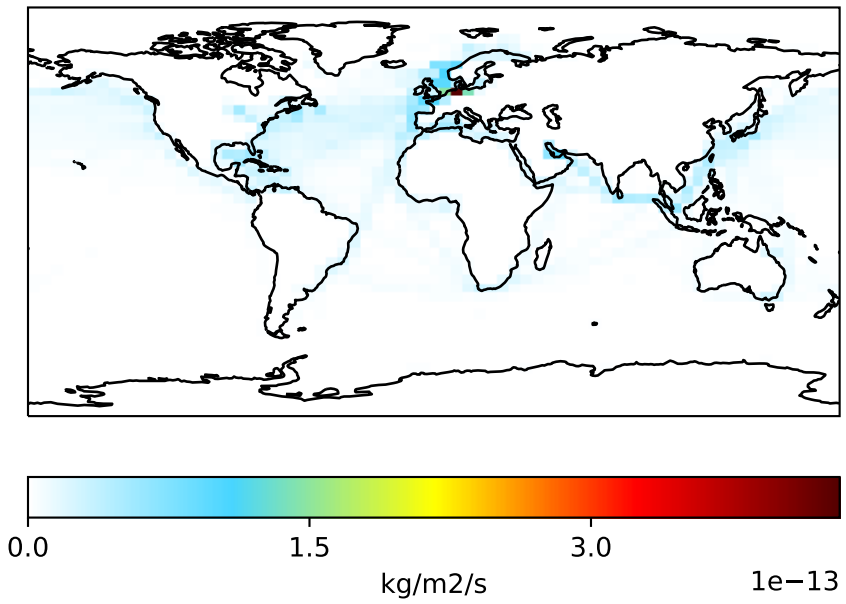
Ratio
Dev/Ref, Fixed Range



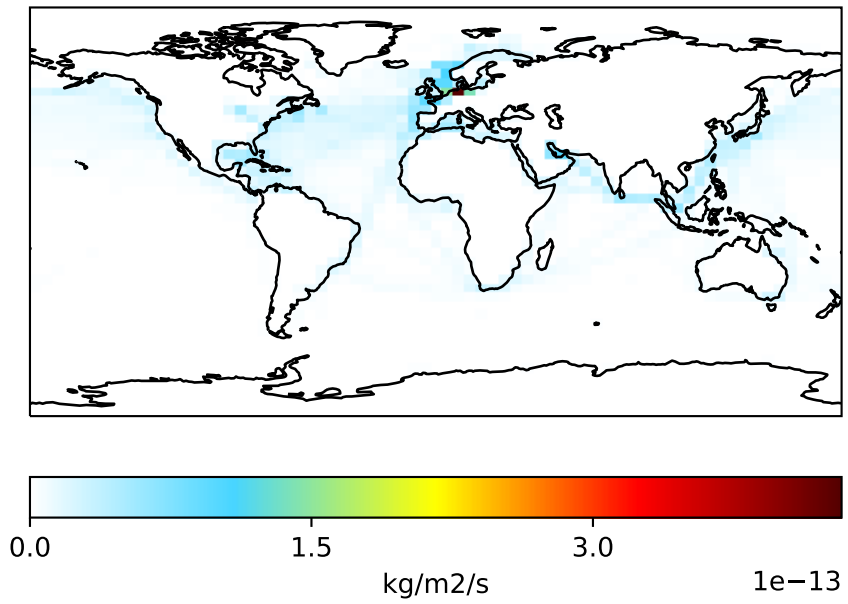


EmisBENZ_Ship

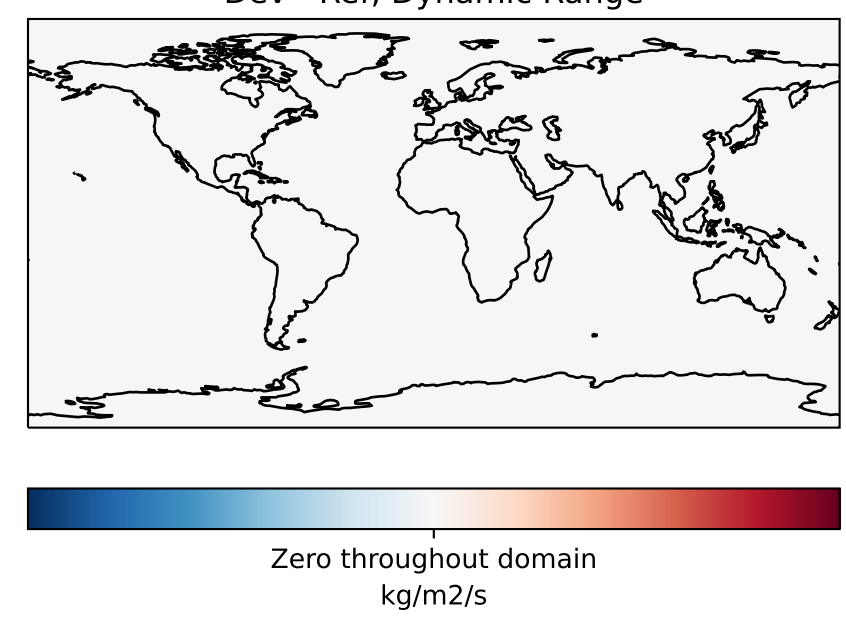
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



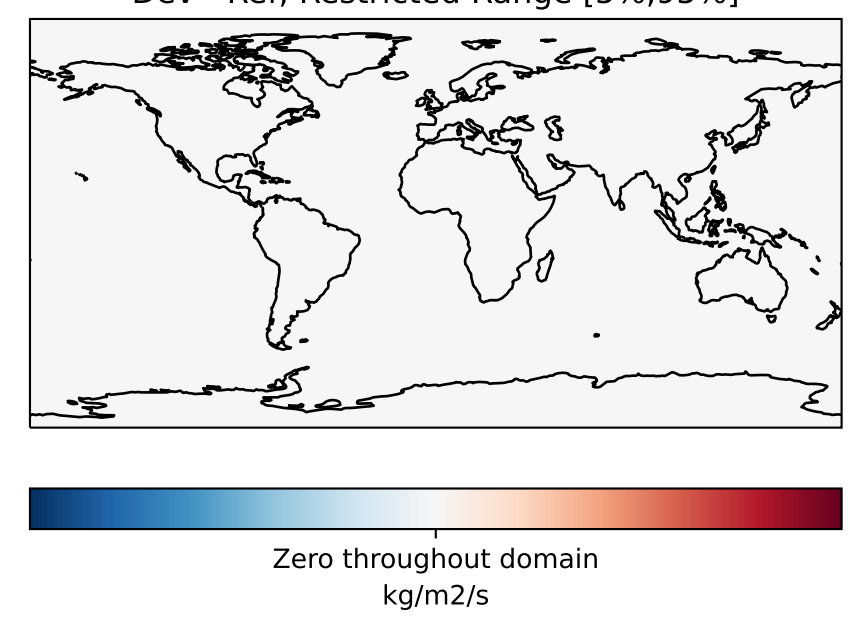
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



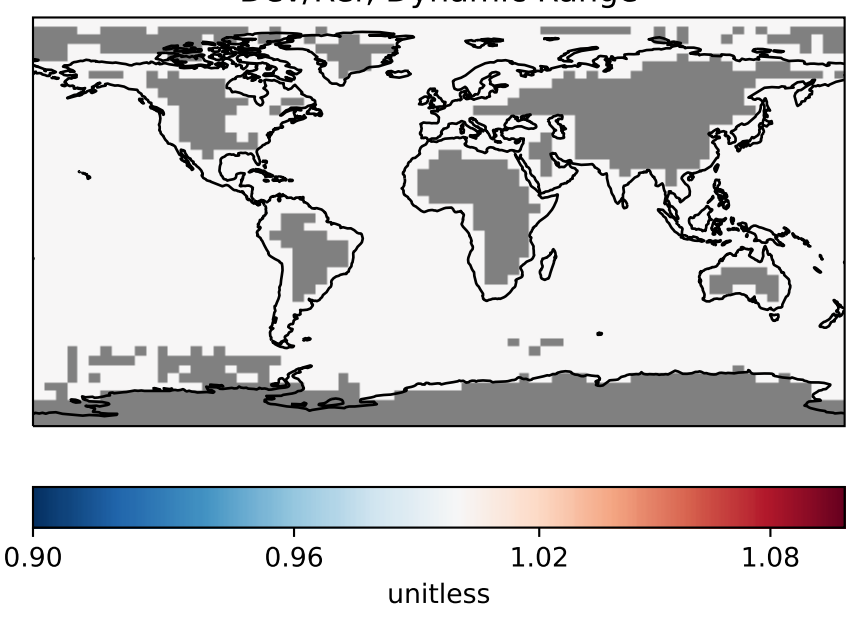
Difference
Dev - Ref, Dynamic Range



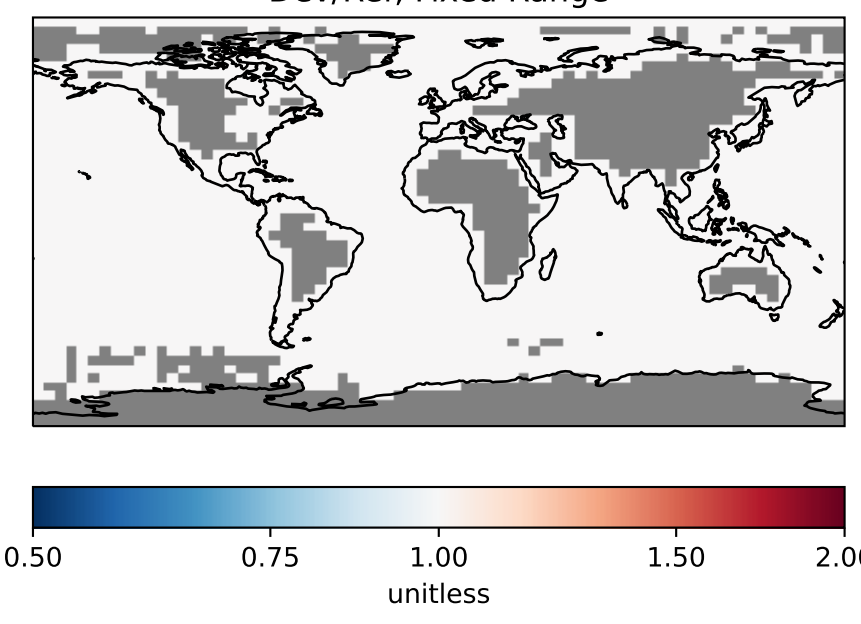
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

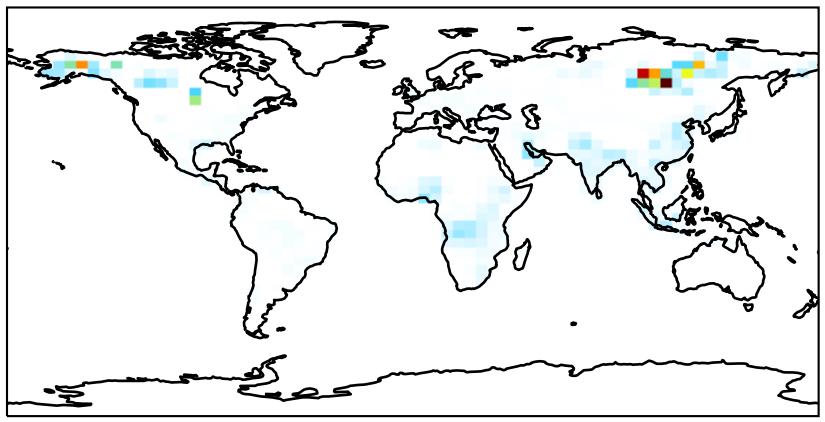


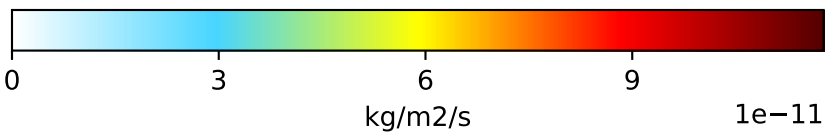
Ratio
Dev/Ref, Fixed Range



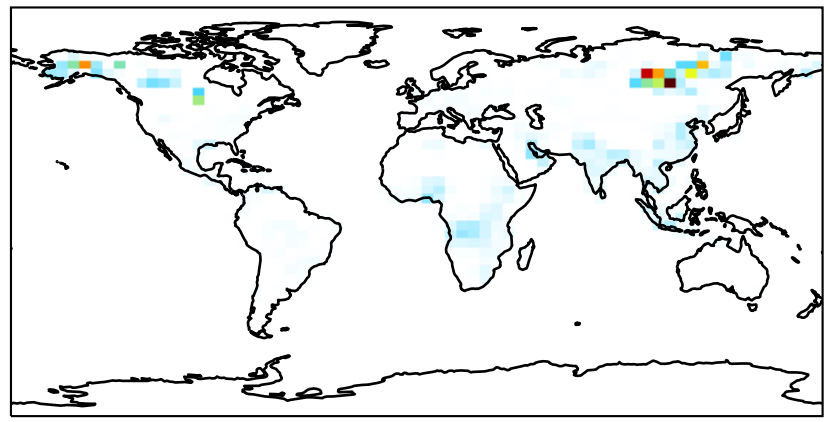
EmisBENZ_Total

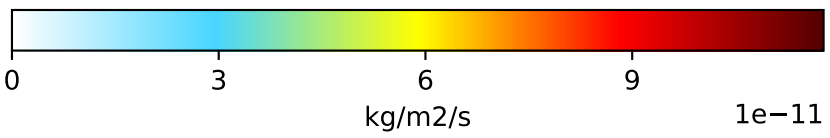
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



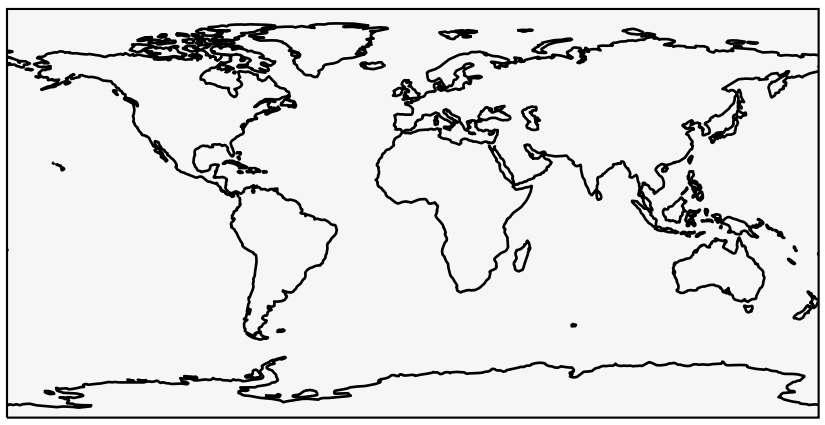


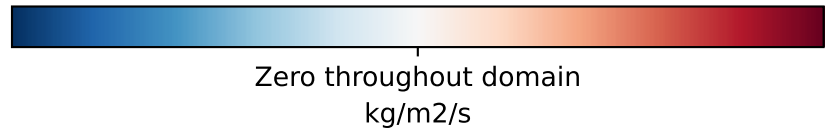
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



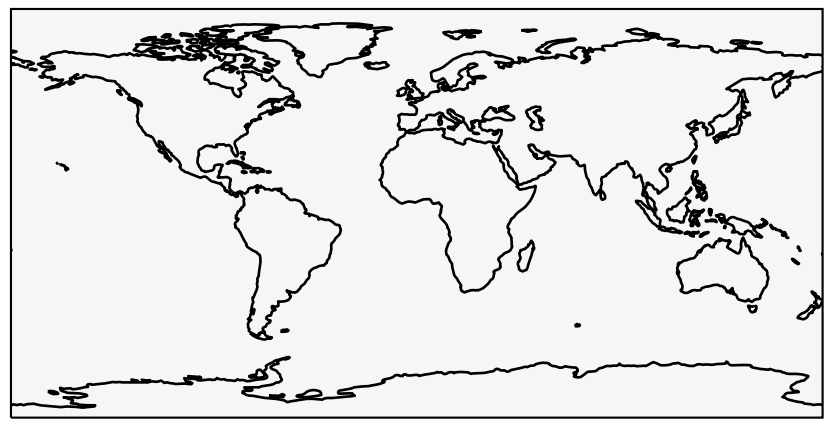


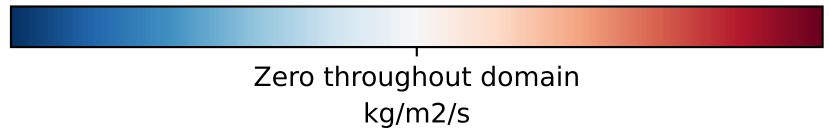
Difference
Dev - Ref, Dynamic Range



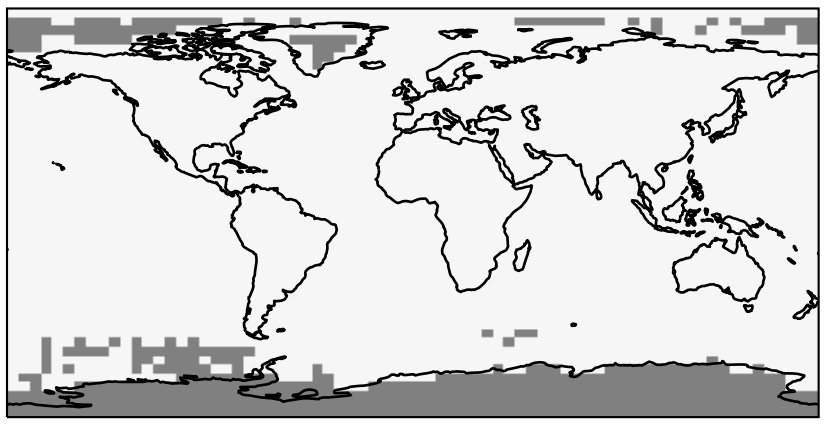


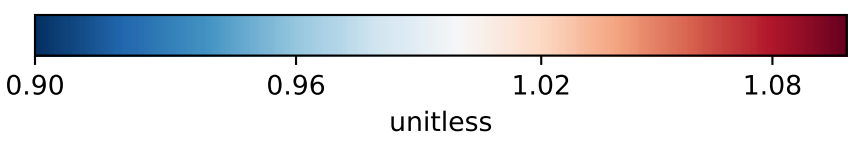
Difference
Dev - Ref, Restricted Range [5%,95%]



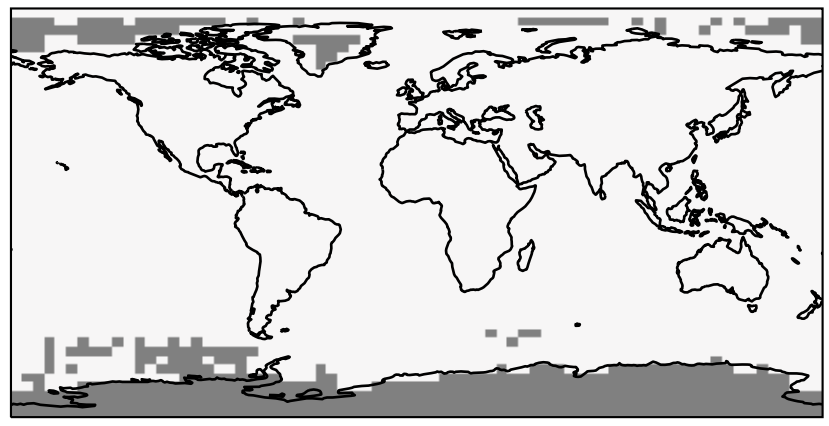


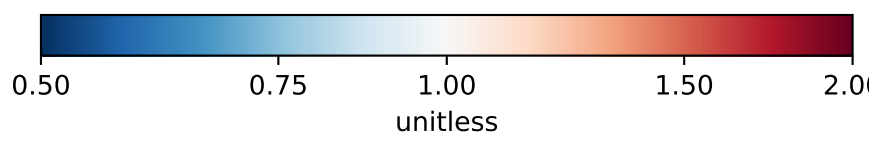
Ratio
Dev/Ref, Dynamic Range





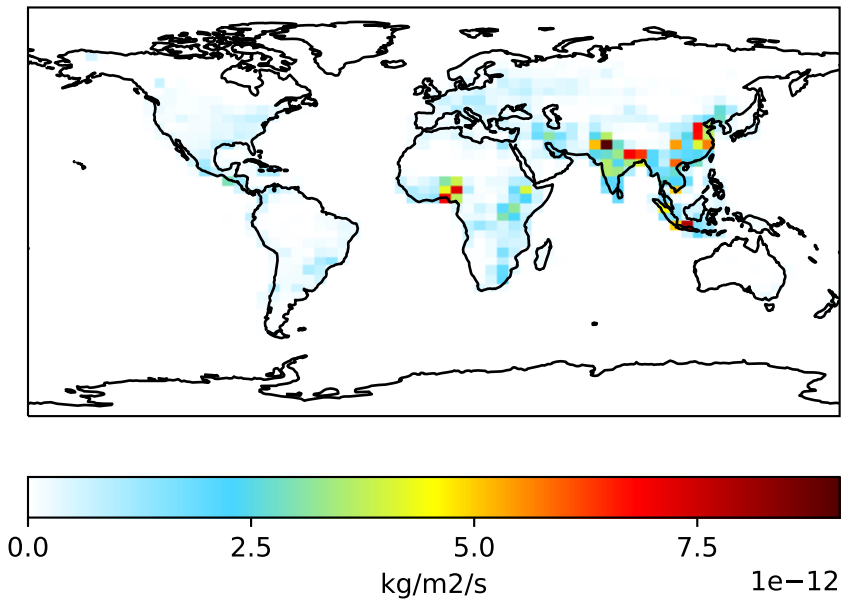
Ratio
Dev/Ref, Fixed Range



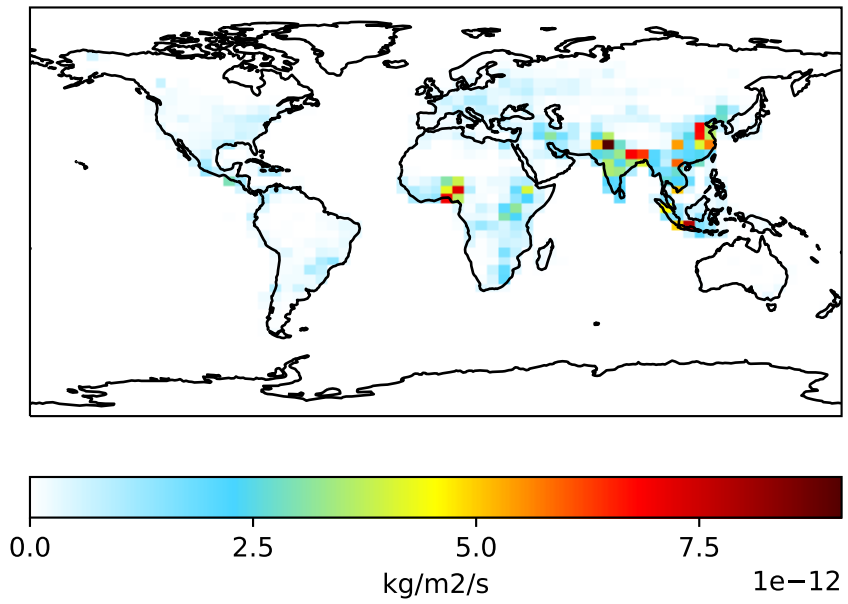


EmisC2H2_Anthro

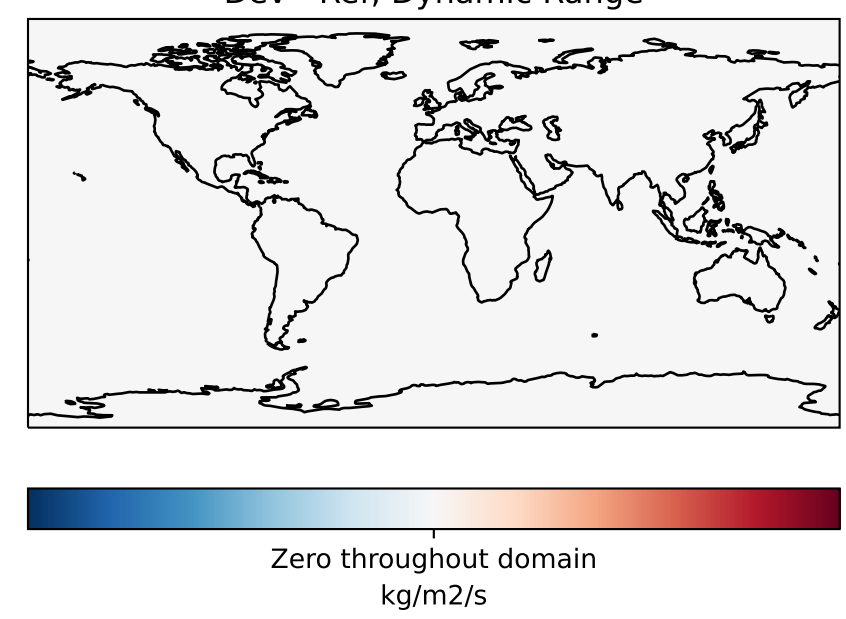
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



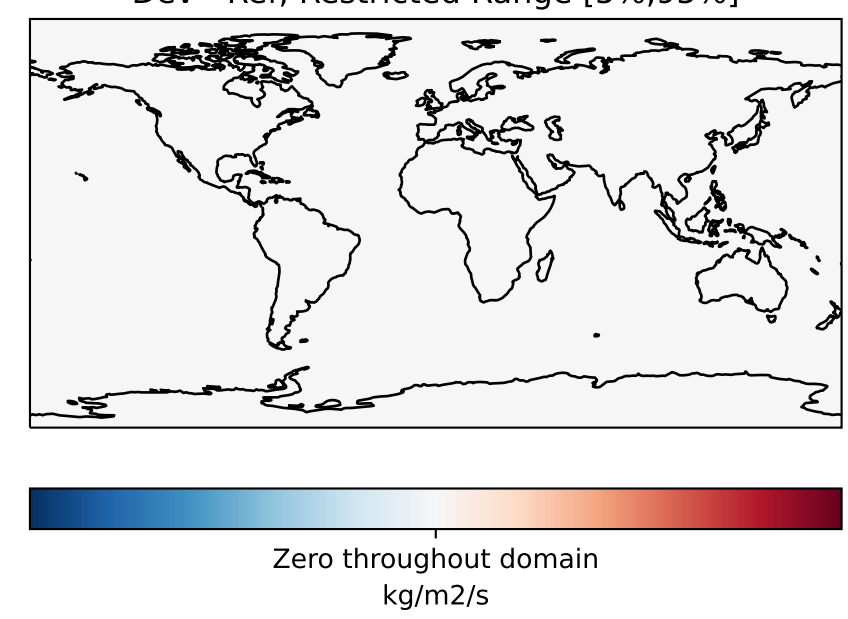
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



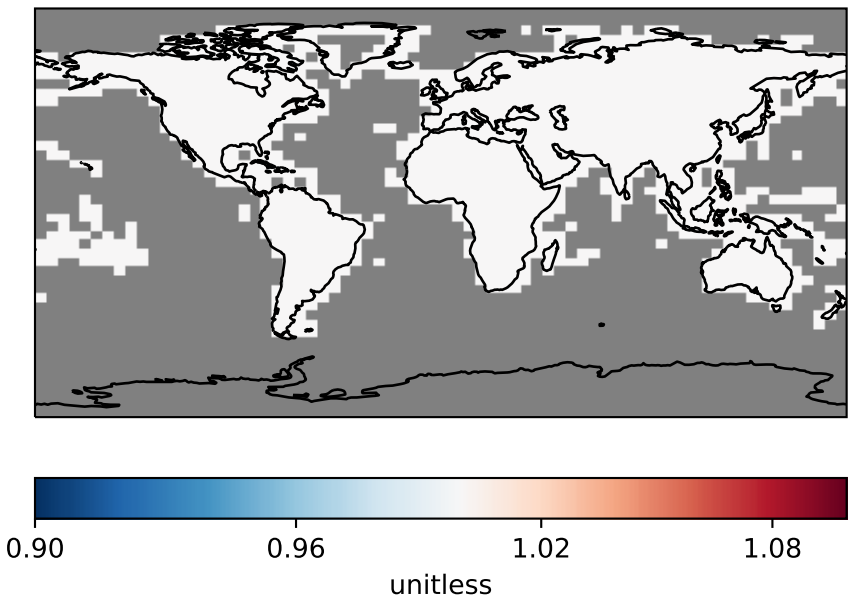
Difference
Dev - Ref, Dynamic Range



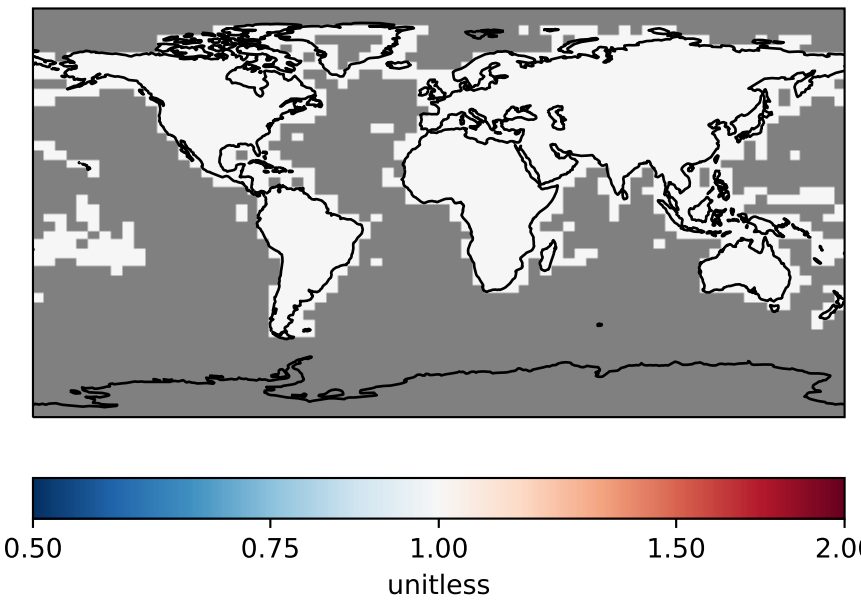
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

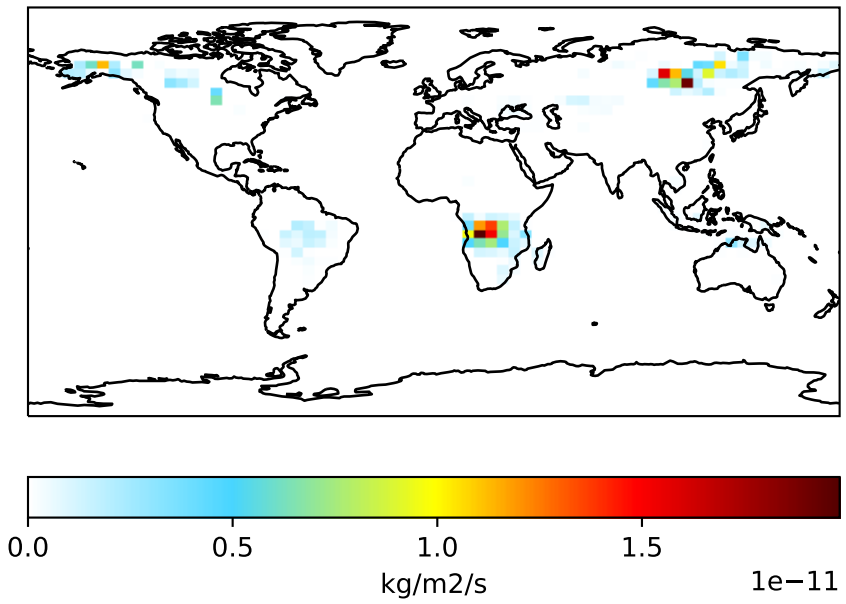


Ratio
Dev/Ref, Fixed Range

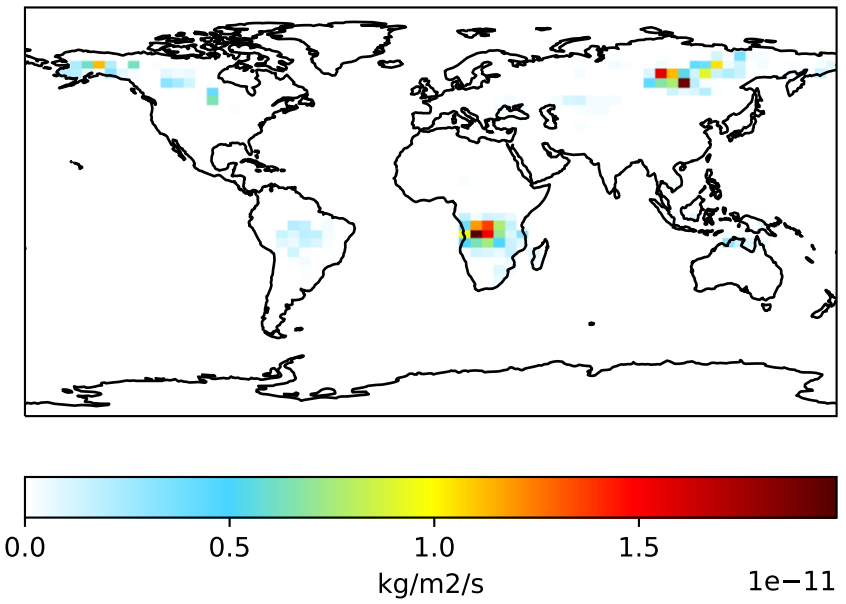


EmisC2H2_BioBurn

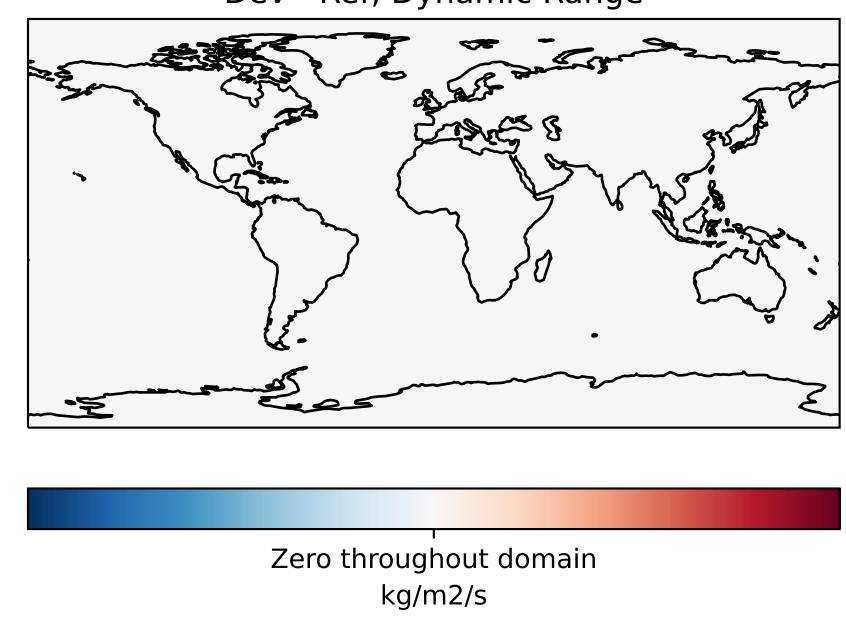
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



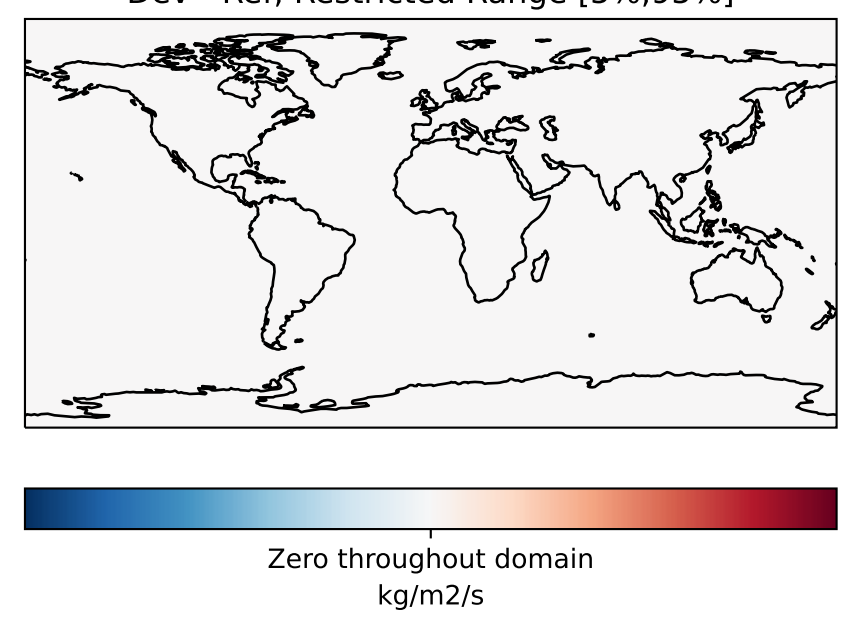
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



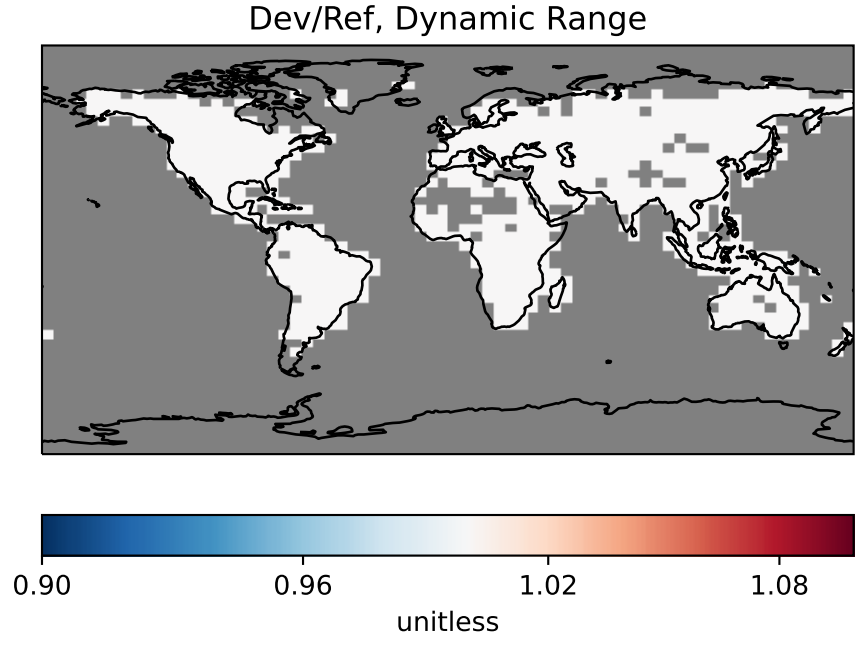
Difference
Dev - Ref, Dynamic Range



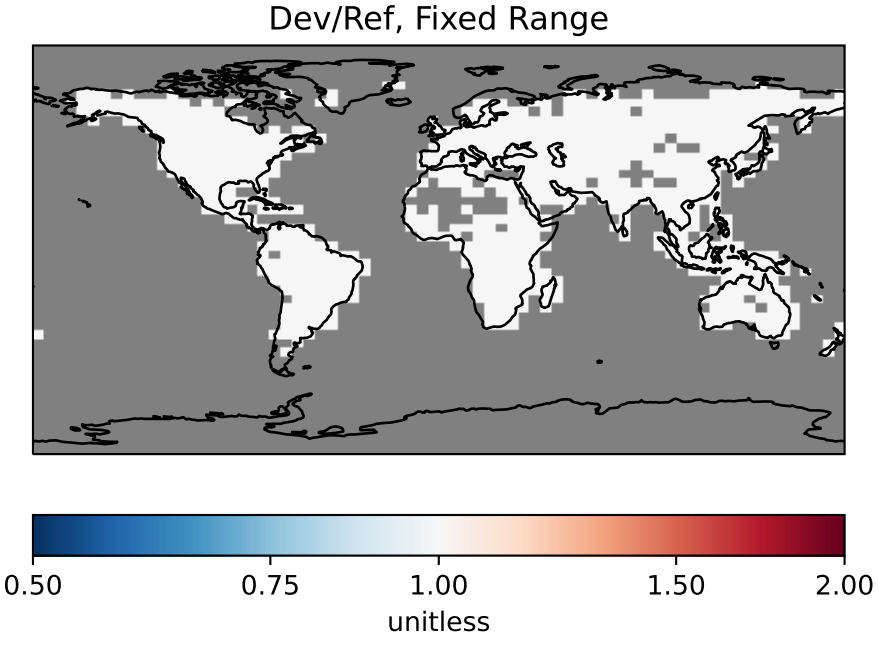
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

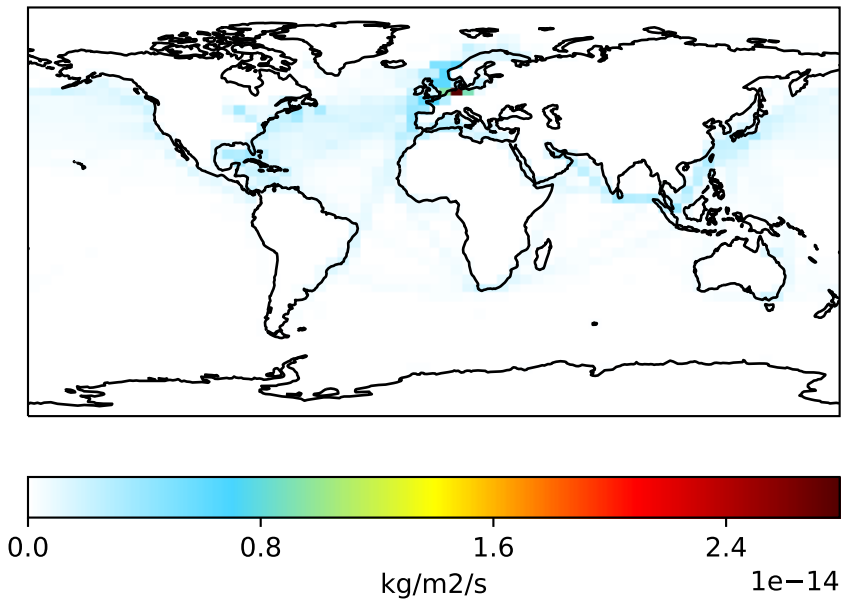


Ratio
Dev/Ref, Fixed Range

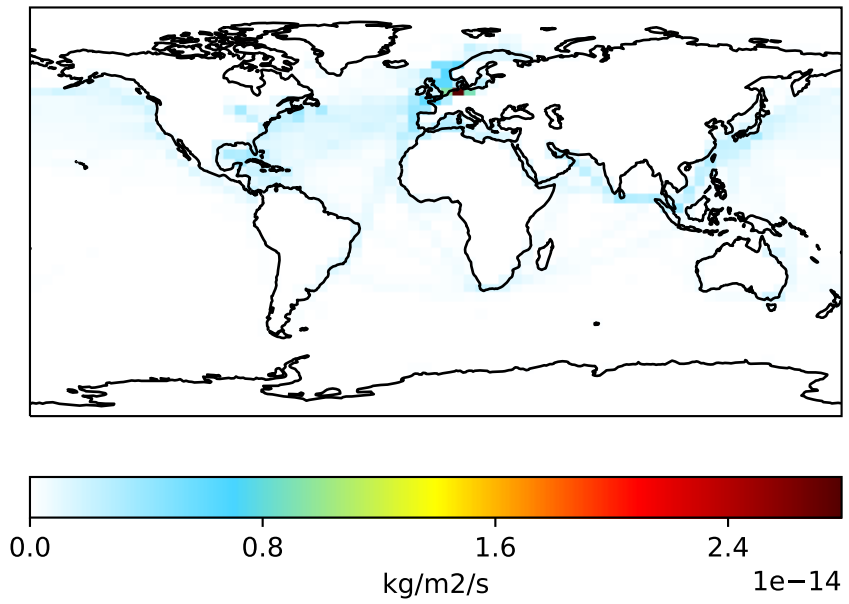


EmisC2H2_Ship

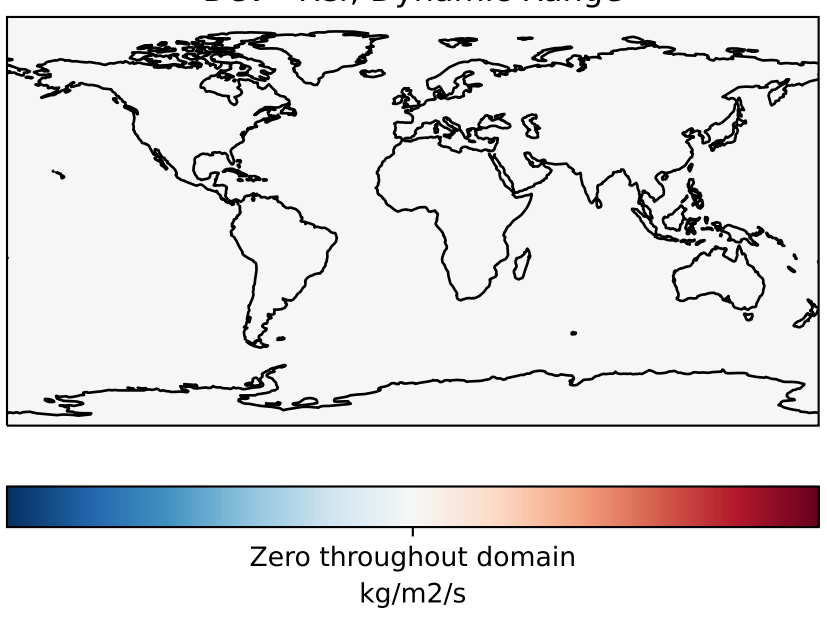
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



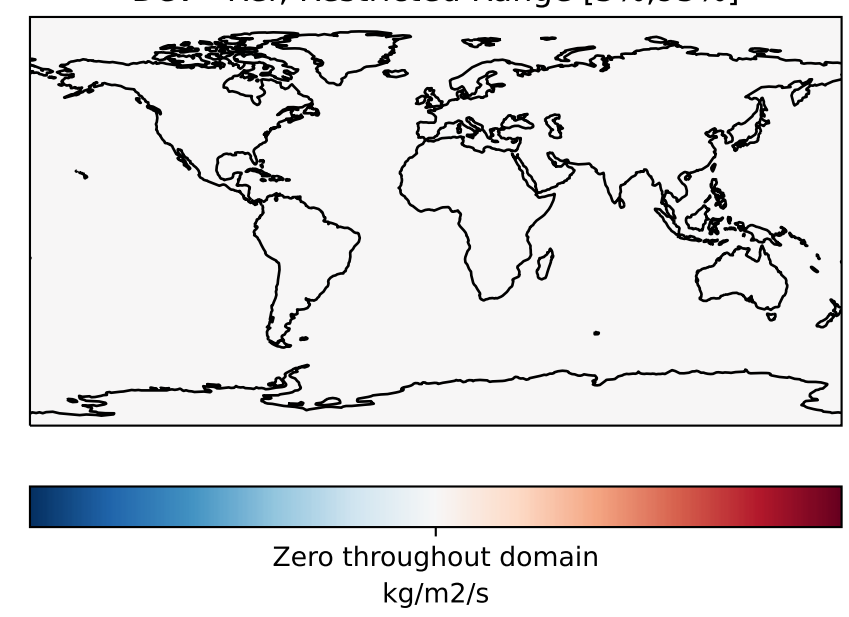
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



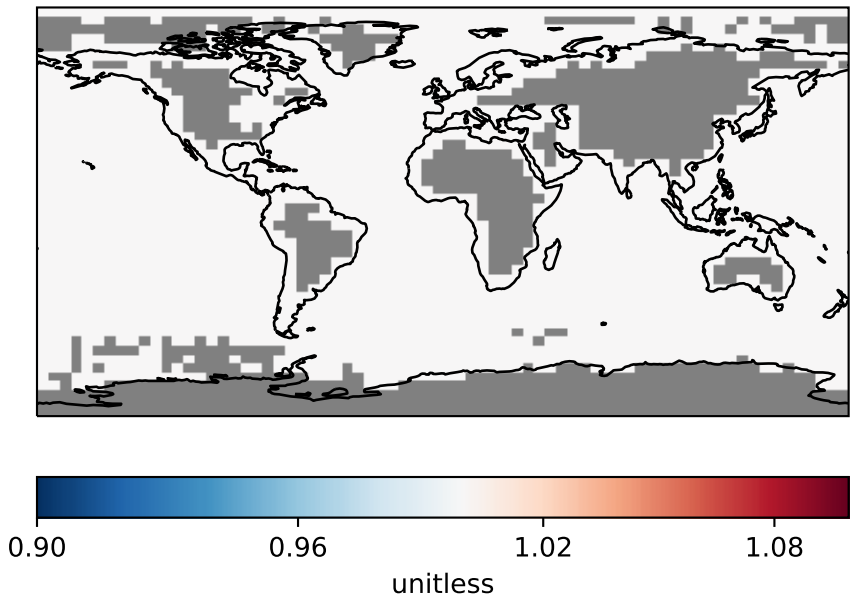
Difference
Dev - Ref, Dynamic Range



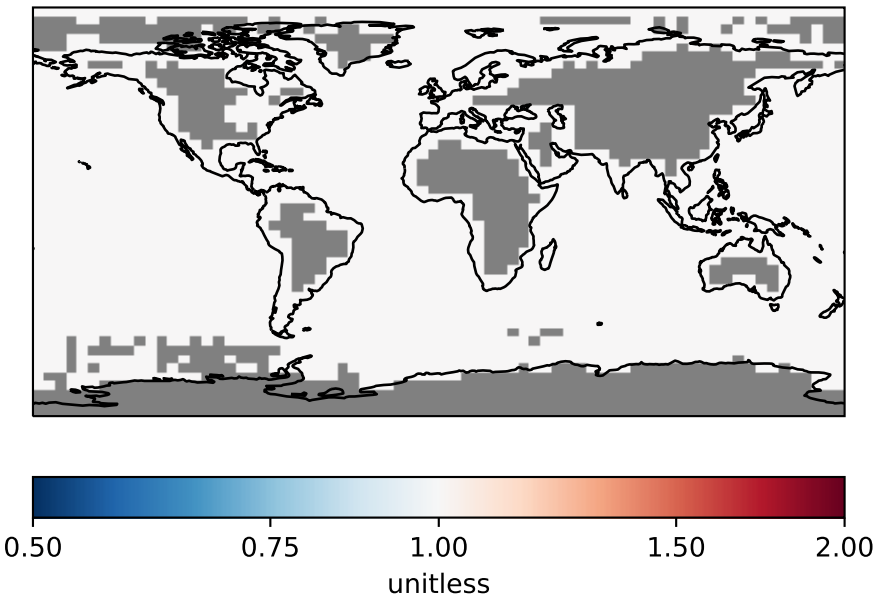
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

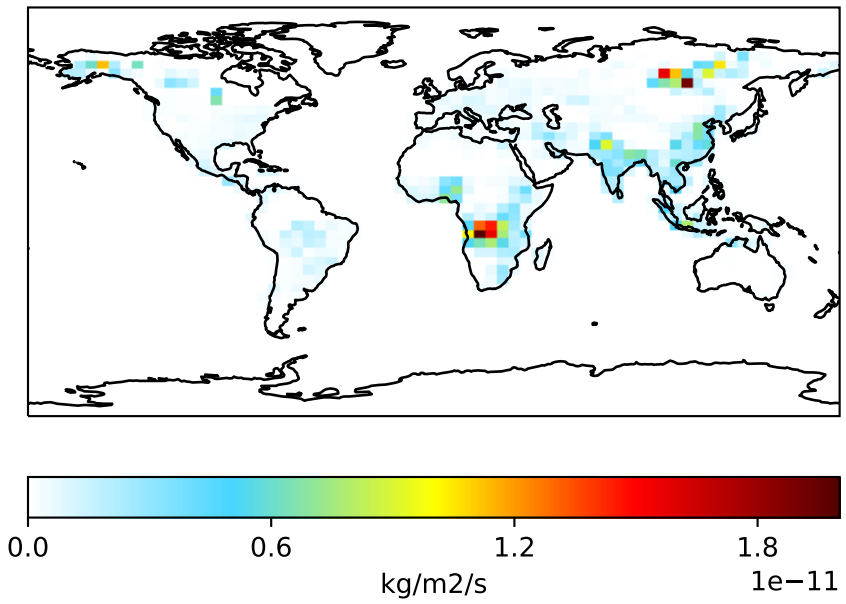


Ratio
Dev/Ref, Fixed Range

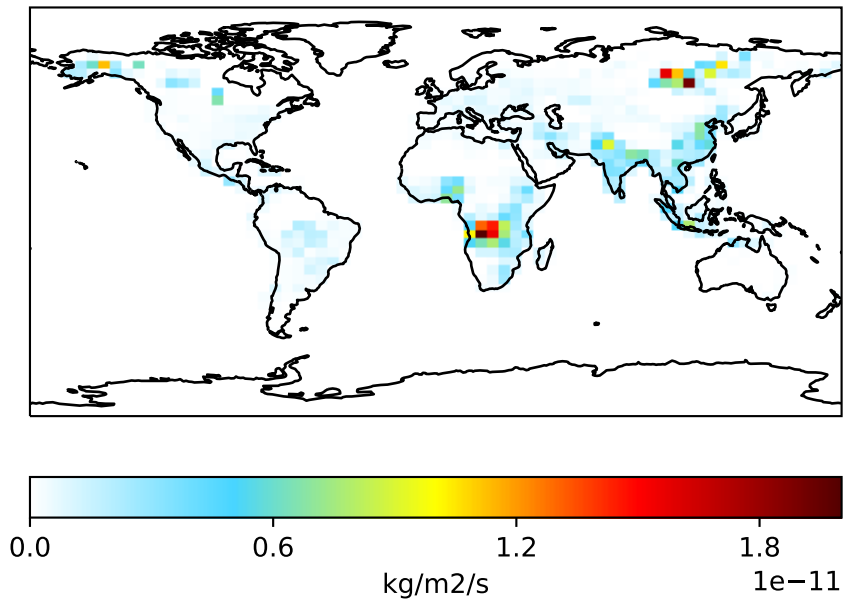


EmisC2H2_Total

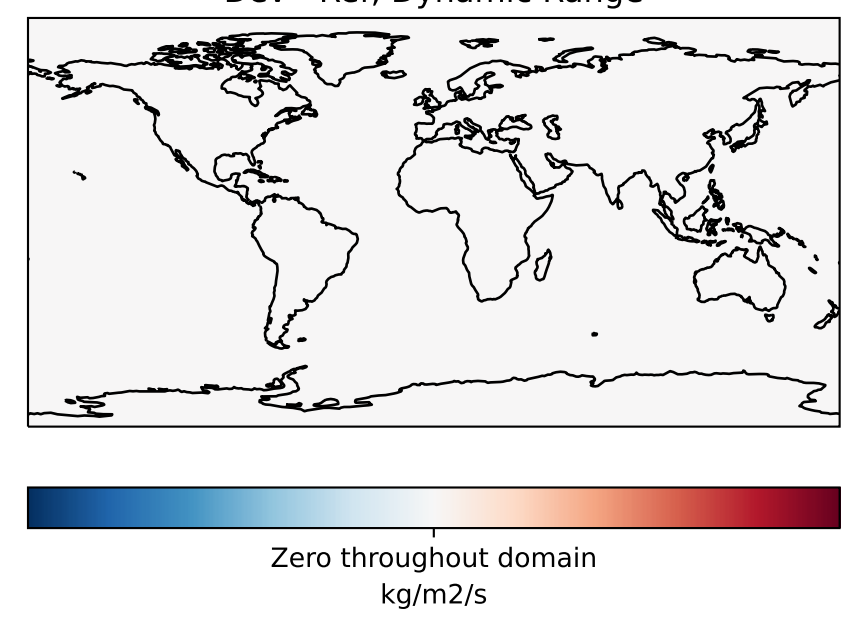
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



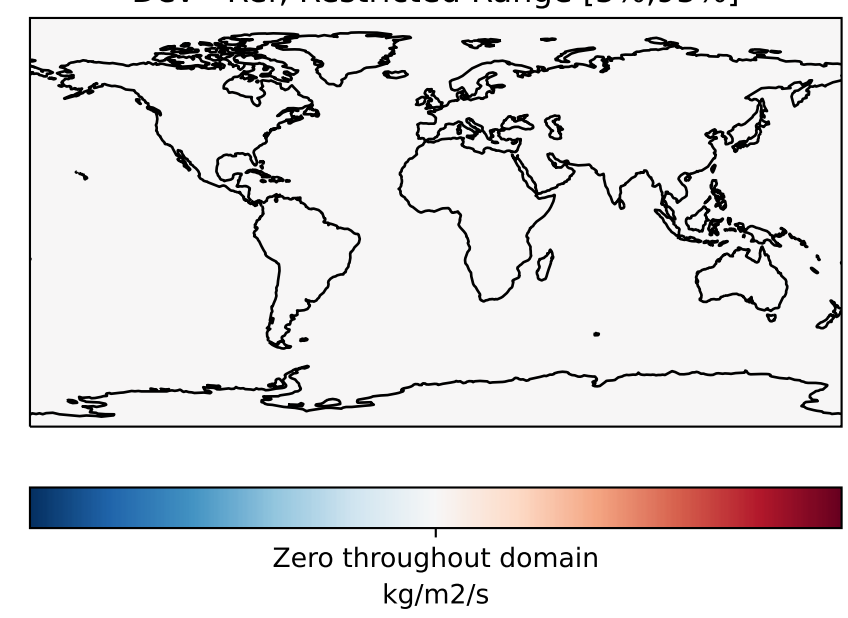
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



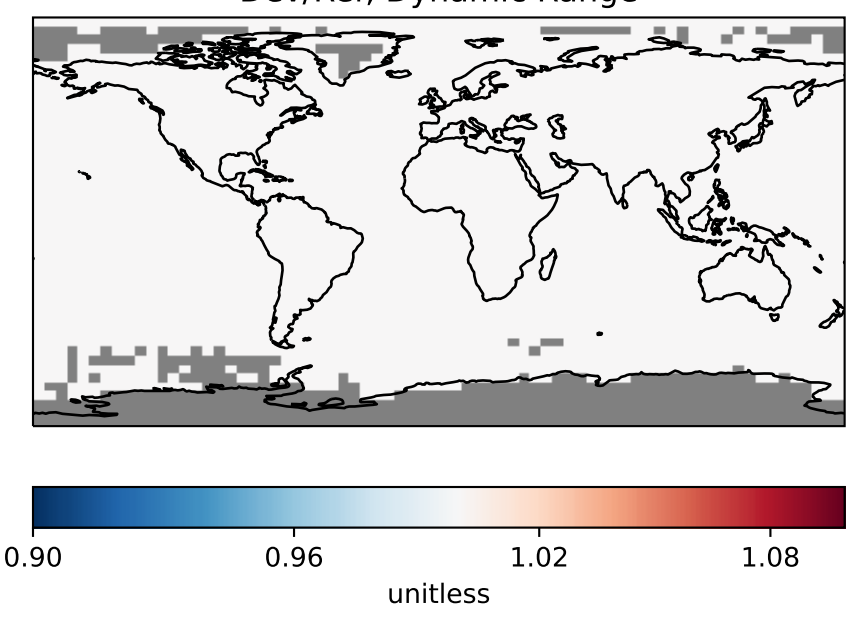
Difference
Dev - Ref, Dynamic Range



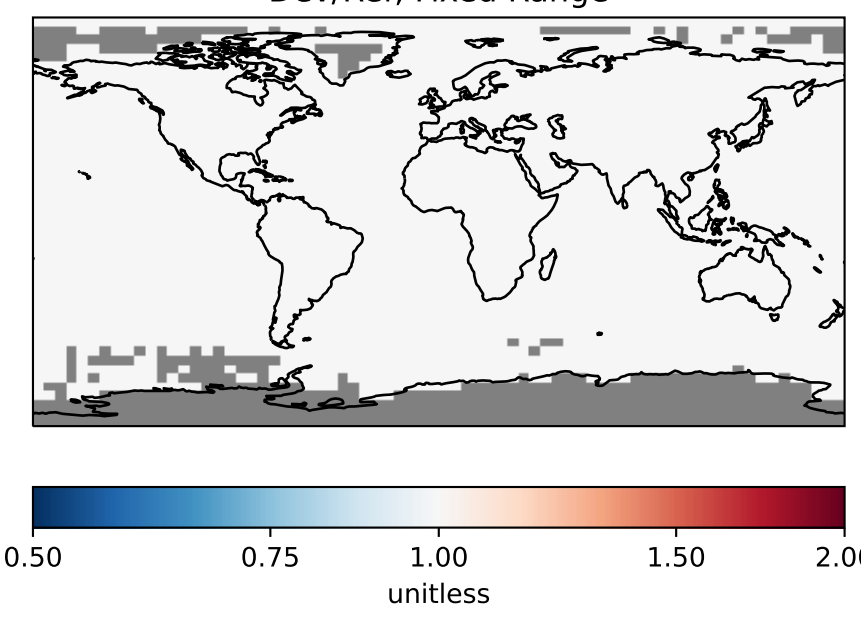
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

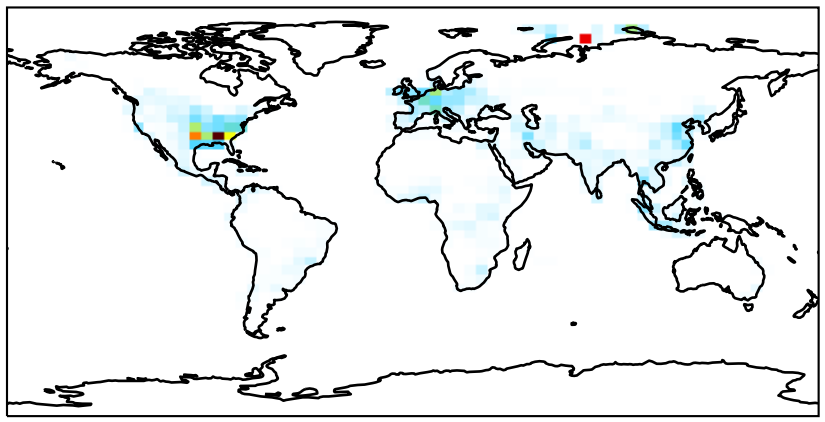


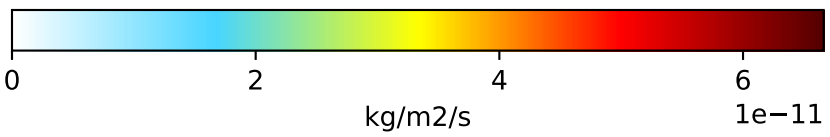
Ratio
Dev/Ref, Fixed Range



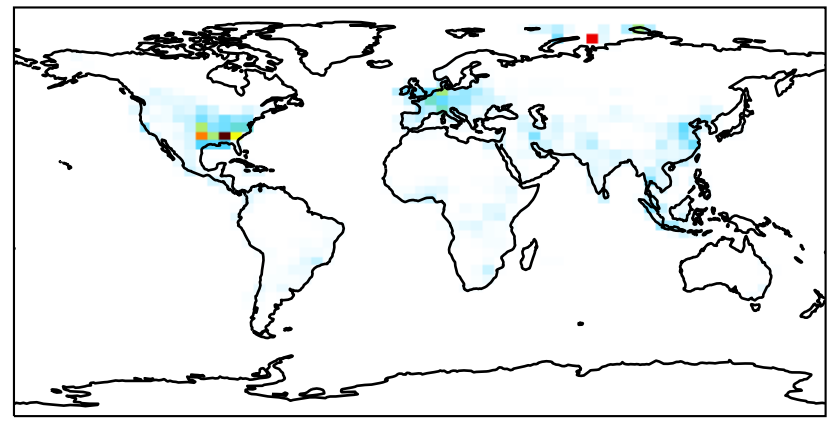
EmisC2H4_Anthro

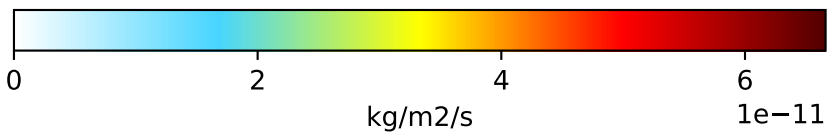
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



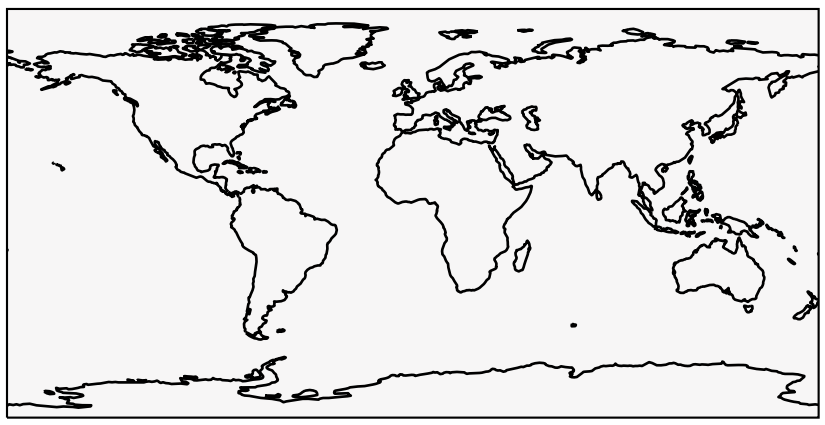


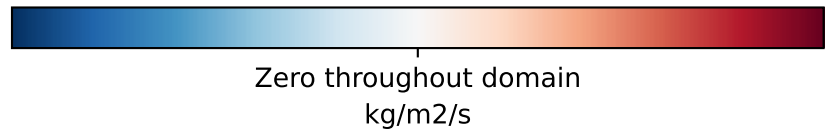
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



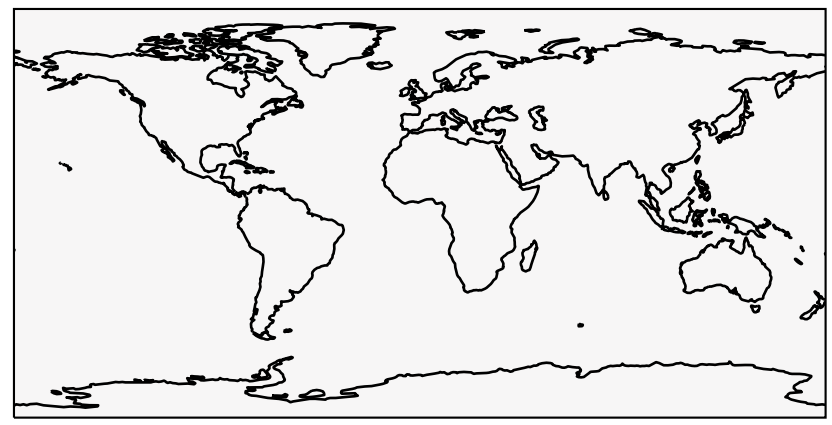


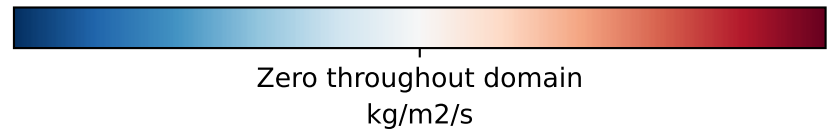
Difference
Dev - Ref, Dynamic Range



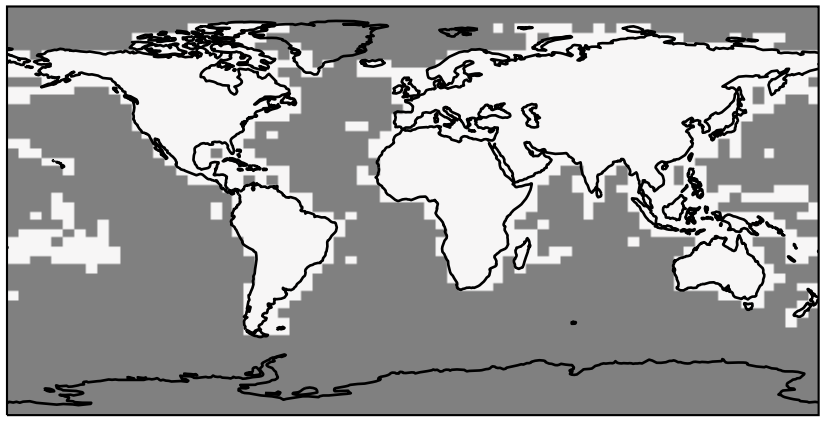


Difference
Dev - Ref, Restricted Range [5%,95%]

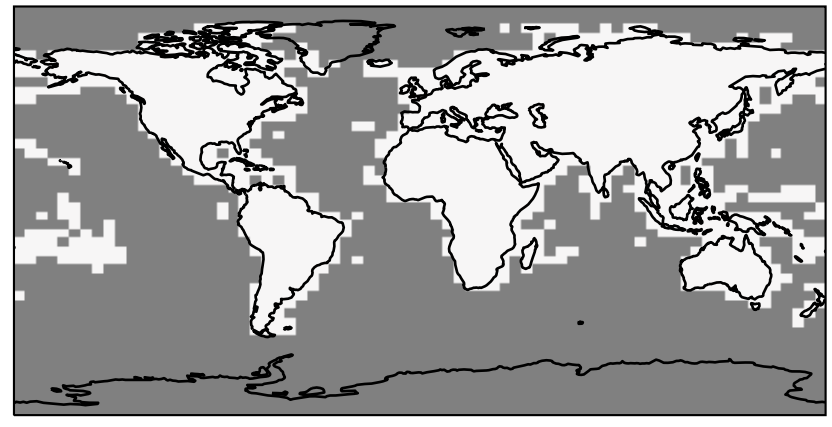


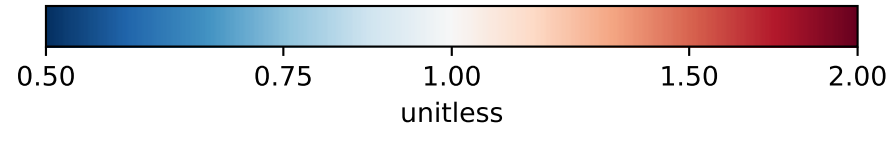


Ratio
Dev/Ref, Dynamic Range



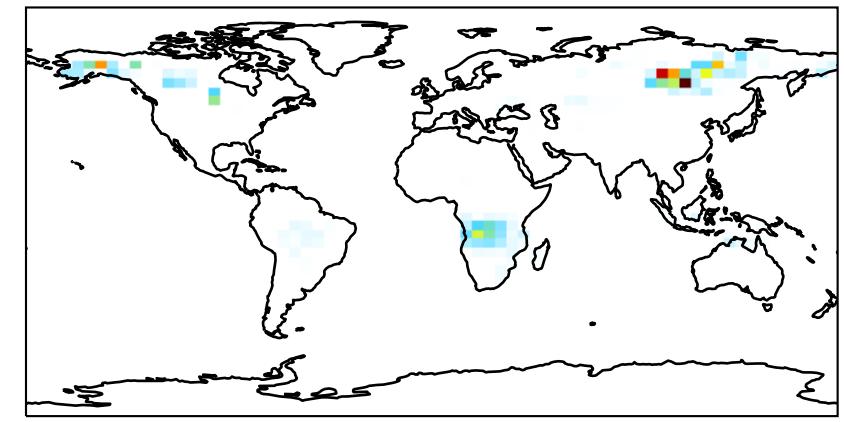
Ratio
Dev/Ref, Fixed Range

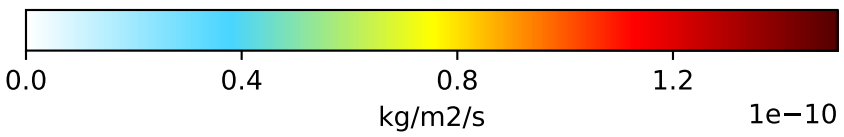




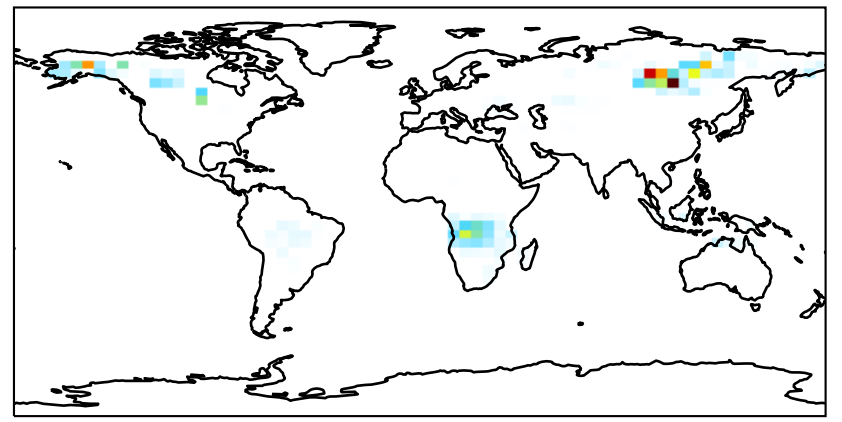
EmisC2H4_BioBurn

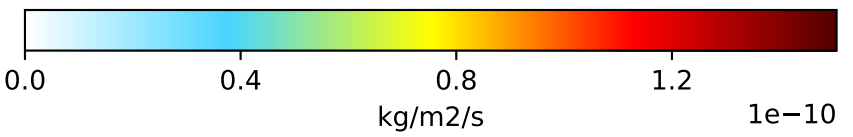
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



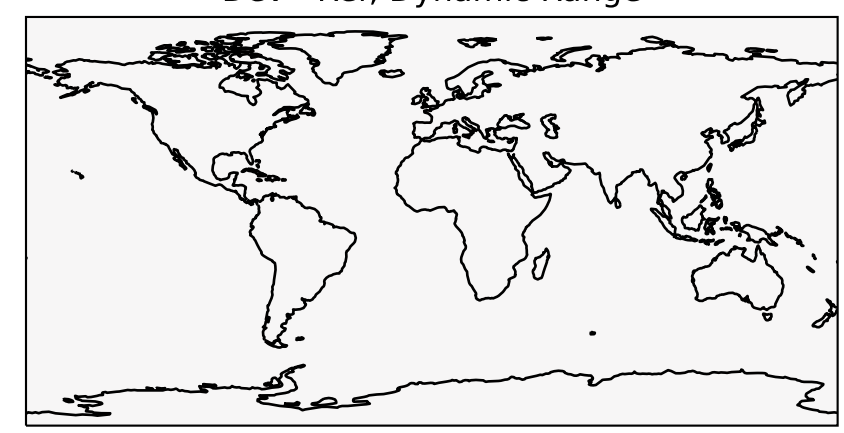


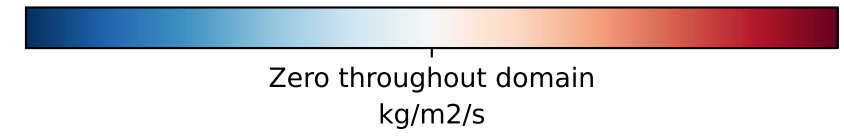
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



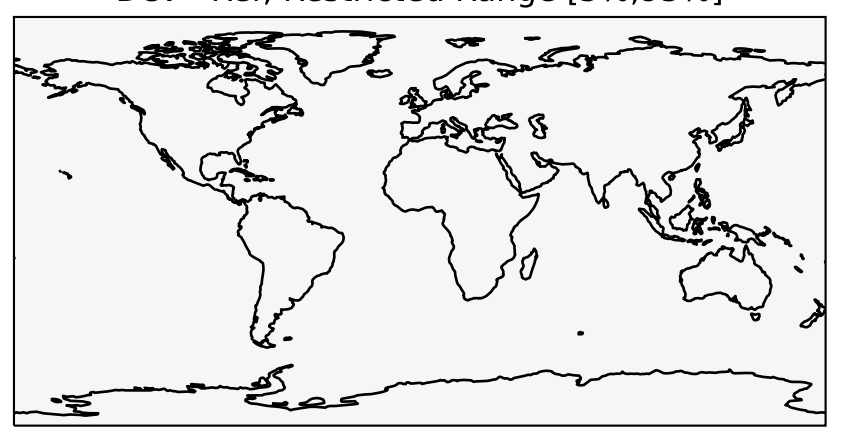


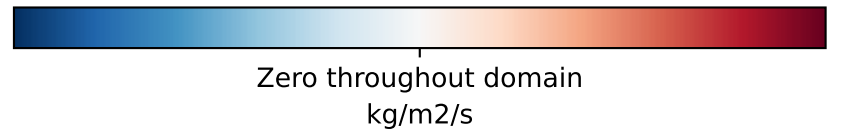
Difference
Dev - Ref, Dynamic Range



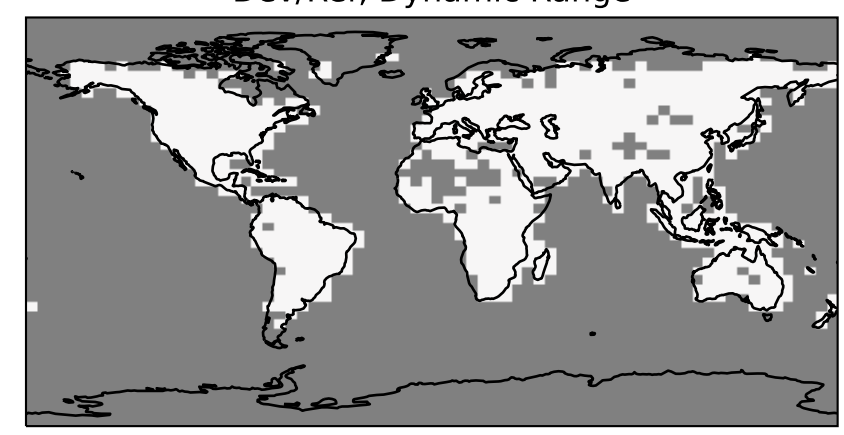


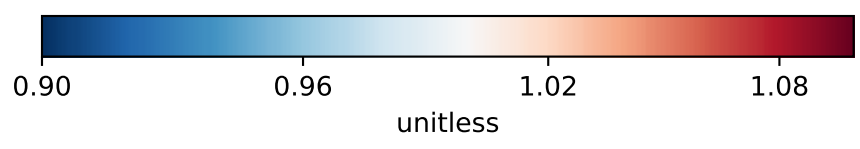
Difference
Dev - Ref, Restricted Range [5%,95%]



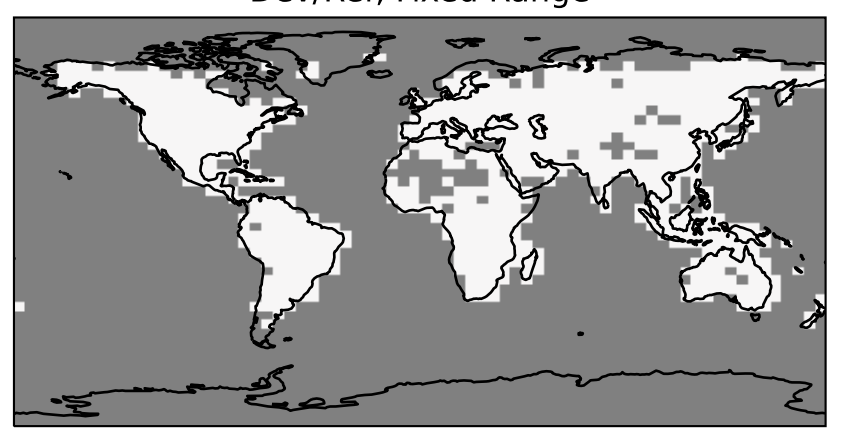


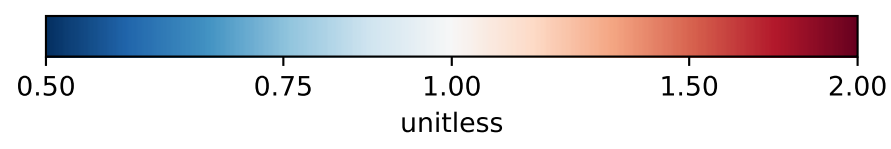
Ratio
Dev/Ref, Dynamic Range





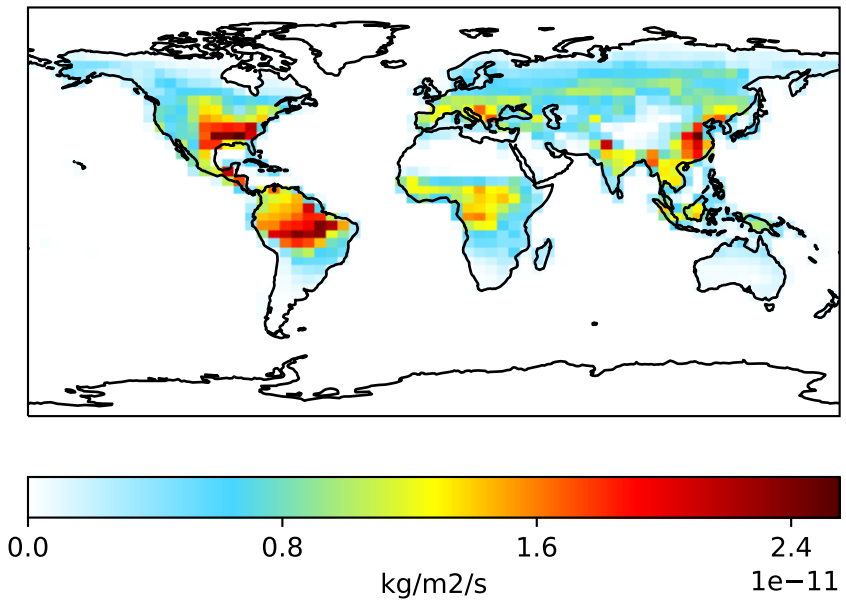
Ratio
Dev/Ref, Fixed Range



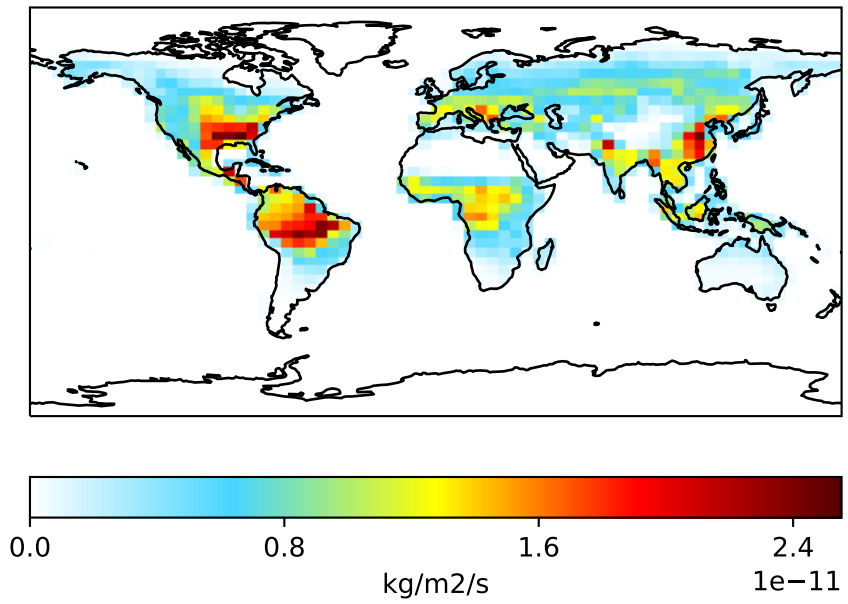


EmisC2H4_Biogenic

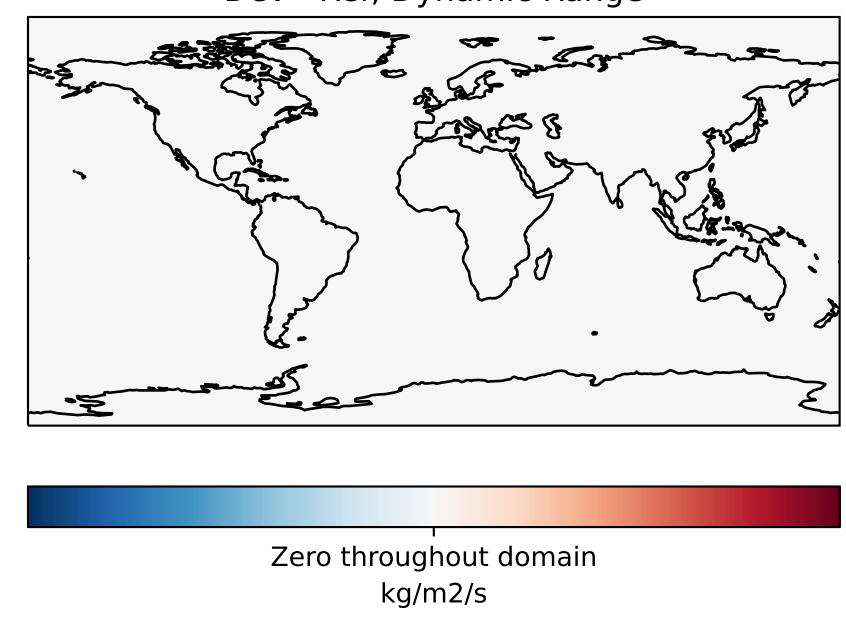
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



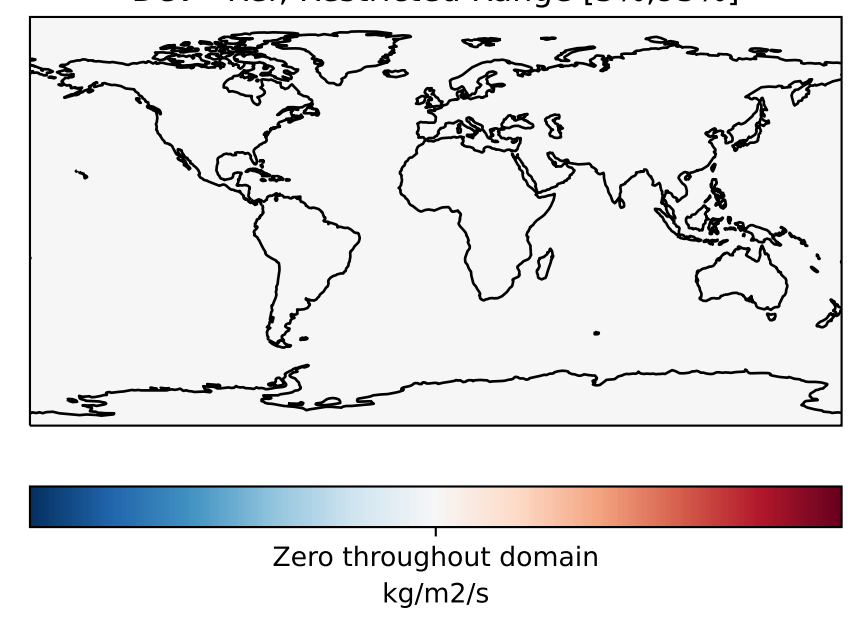
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



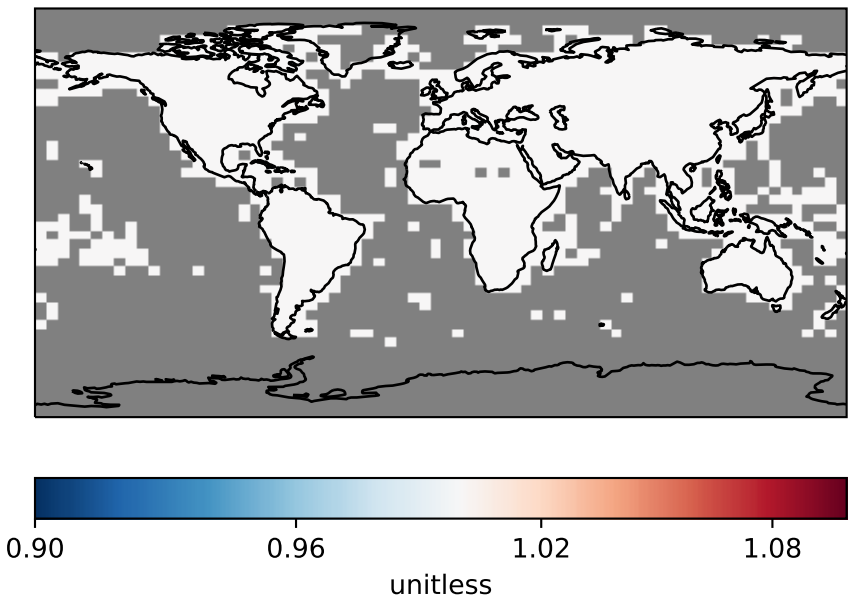
Difference
Dev - Ref, Dynamic Range



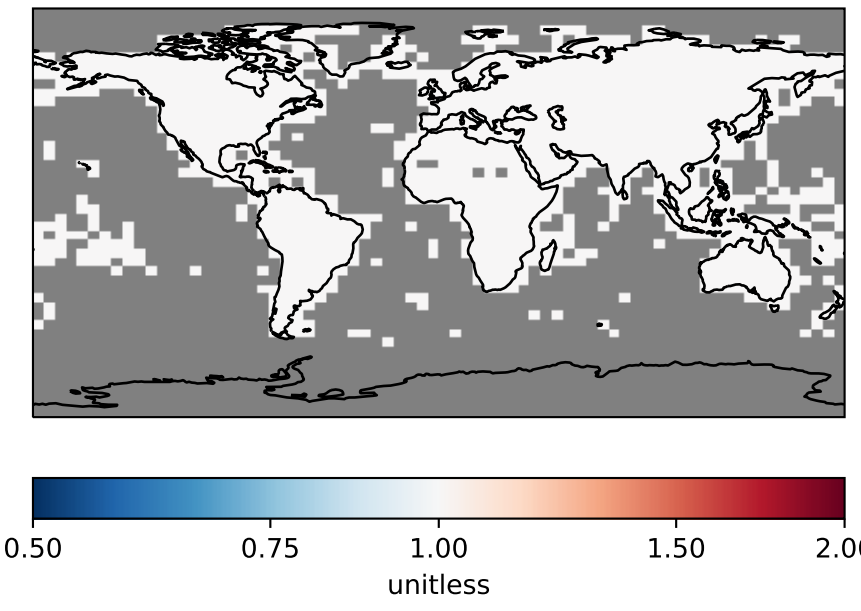
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

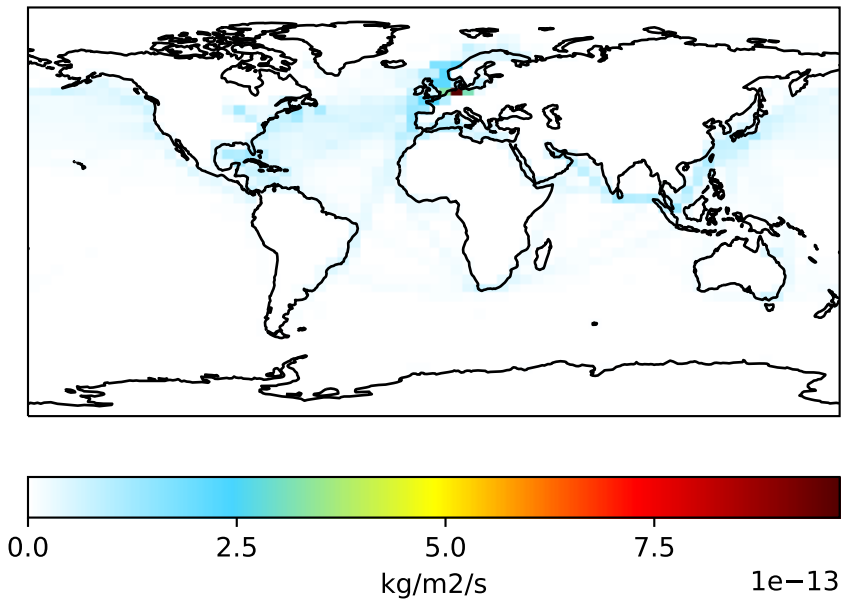


Ratio
Dev/Ref, Fixed Range

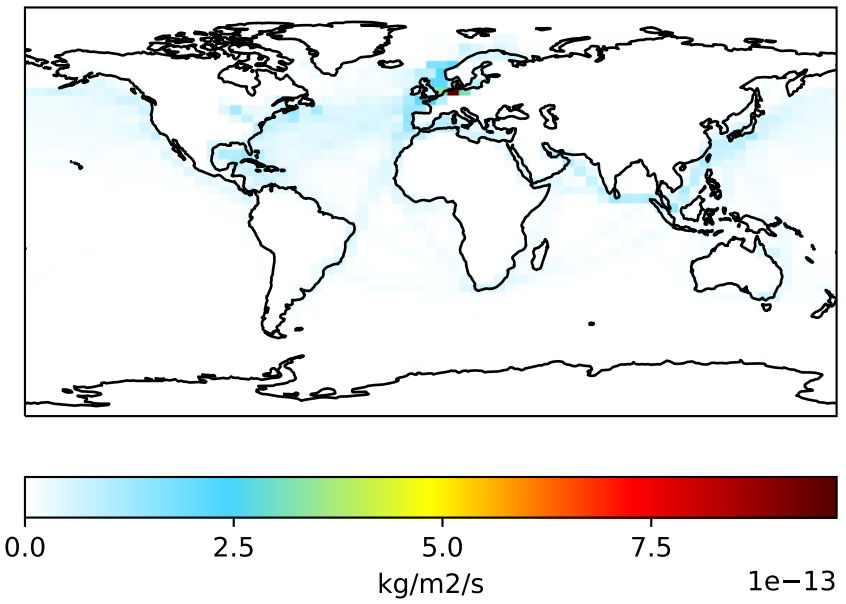


EmisC2H4_Ship

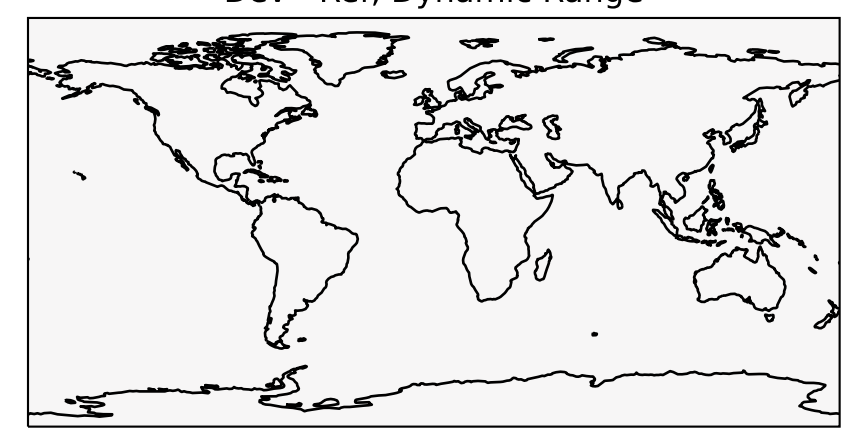
GCC_13.3.0-rc.1 (Ref)
4.0x5.0

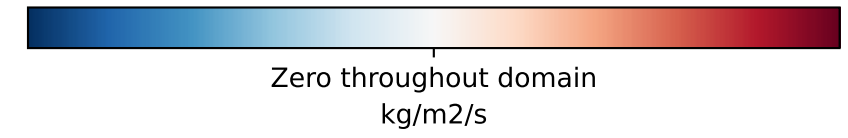


GCC_13.4.0-rc.3 (Dev)
4.0x5.0

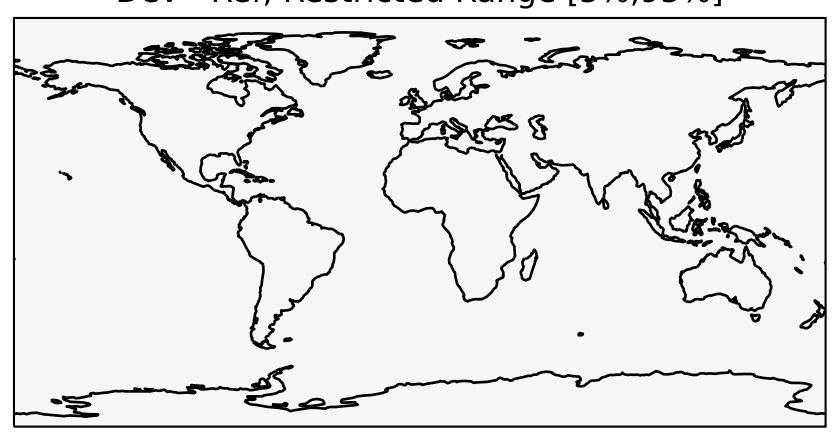


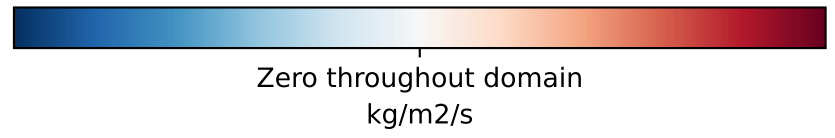
Difference
Dev - Ref, Dynamic Range



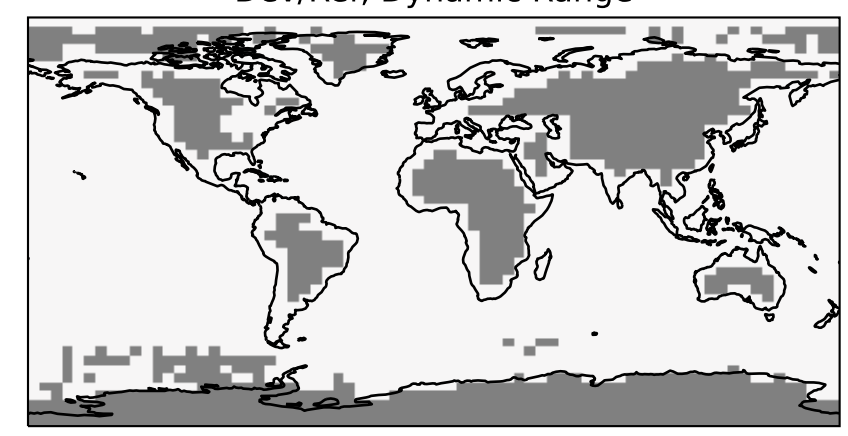


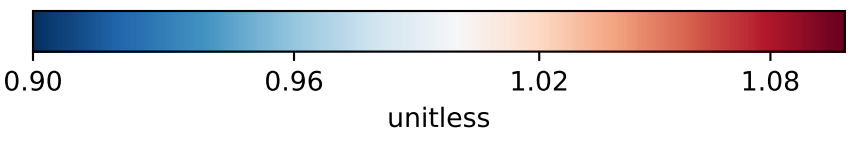
Difference
Dev - Ref, Restricted Range [5%,95%]



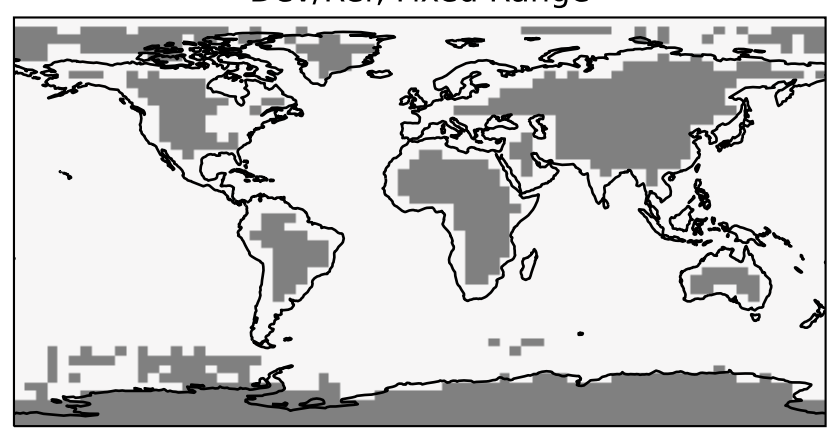


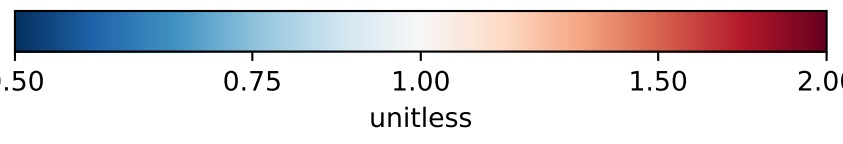
Ratio
Dev/Ref, Dynamic Range





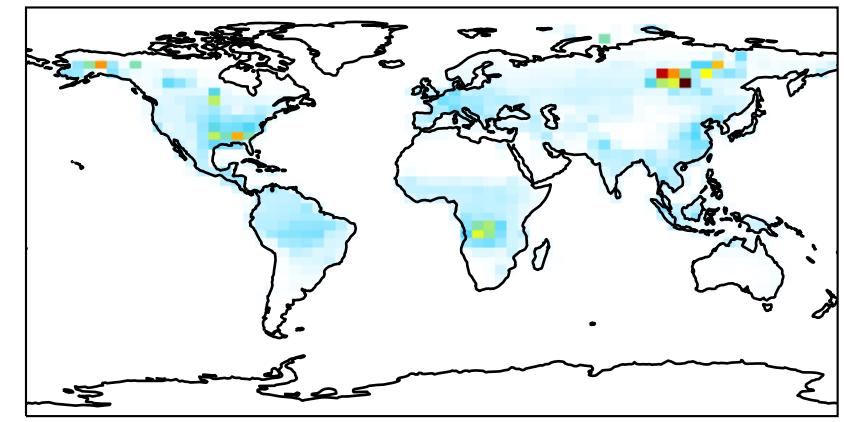
Ratio
Dev/Ref, Fixed Range

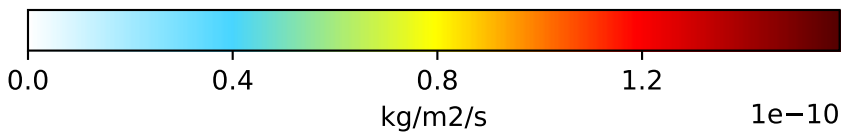




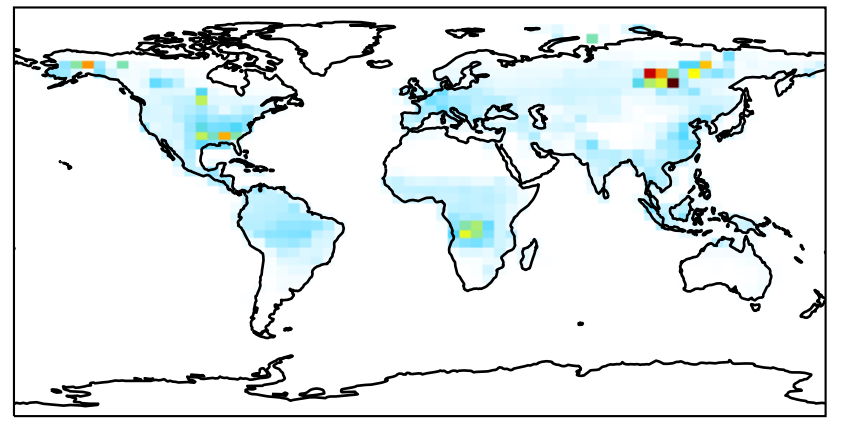
EmisC2H4_Total

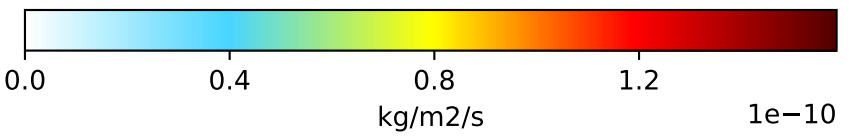
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



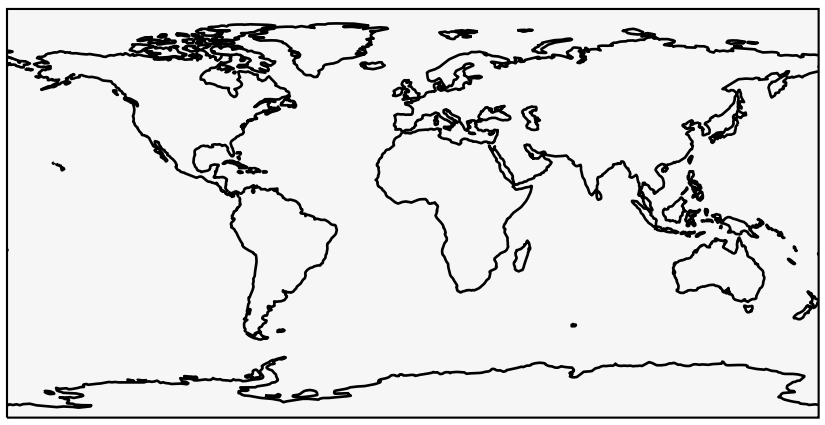


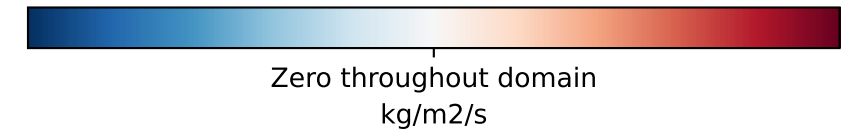
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



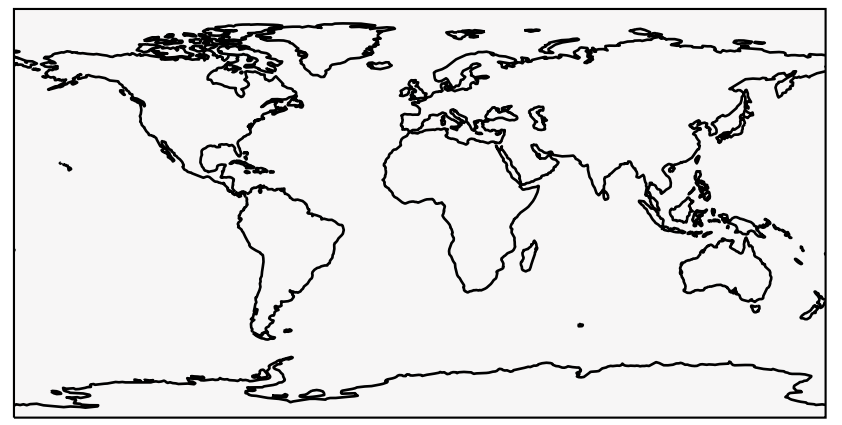


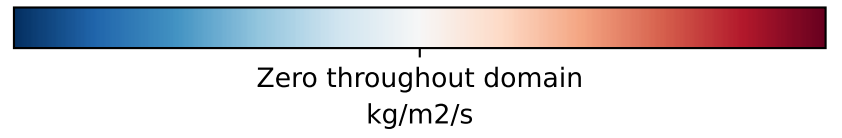
Difference
Dev - Ref, Dynamic Range



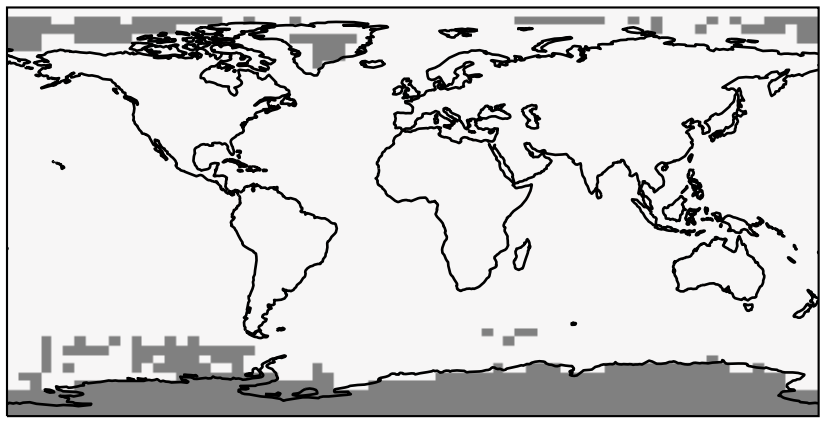


Difference
Dev - Ref, Restricted Range [5%,95%]

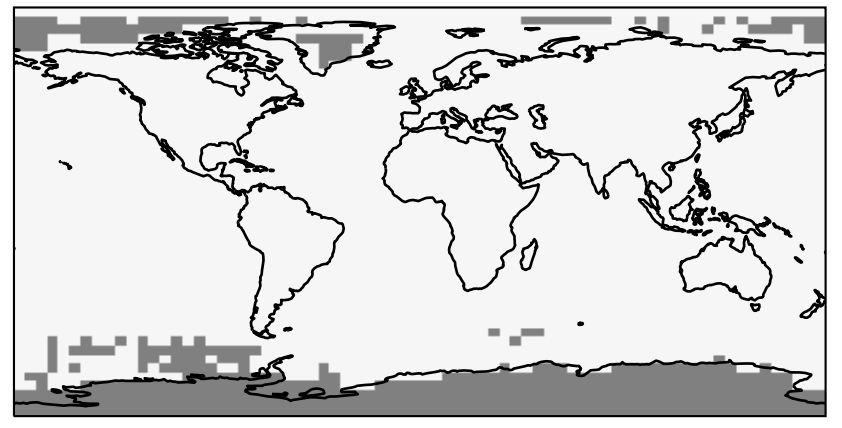


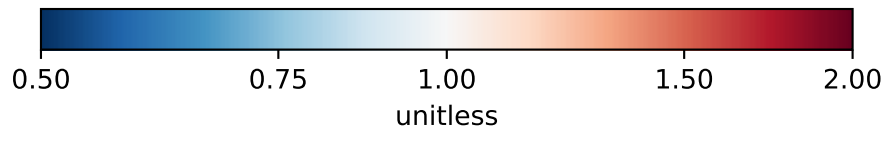


Ratio
Dev/Ref, Dynamic Range



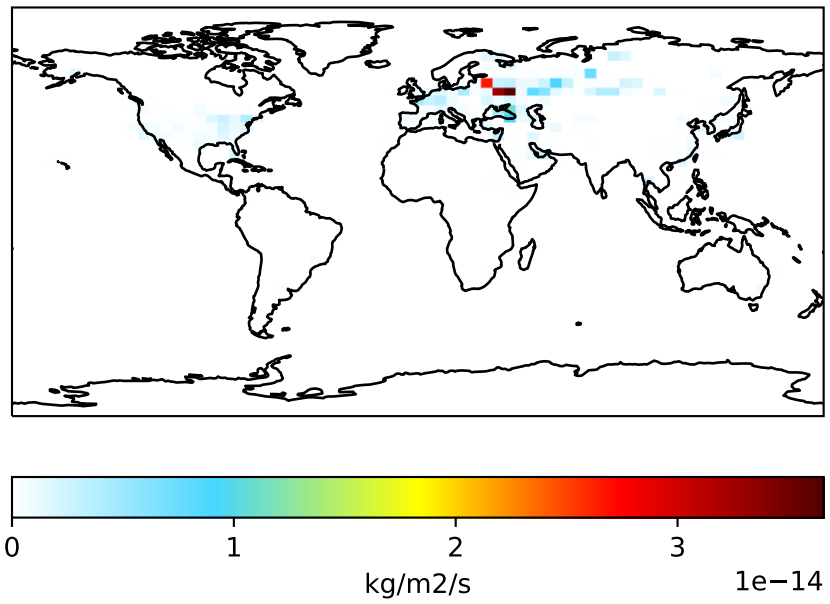
Ratio
Dev/Ref, Fixed Range



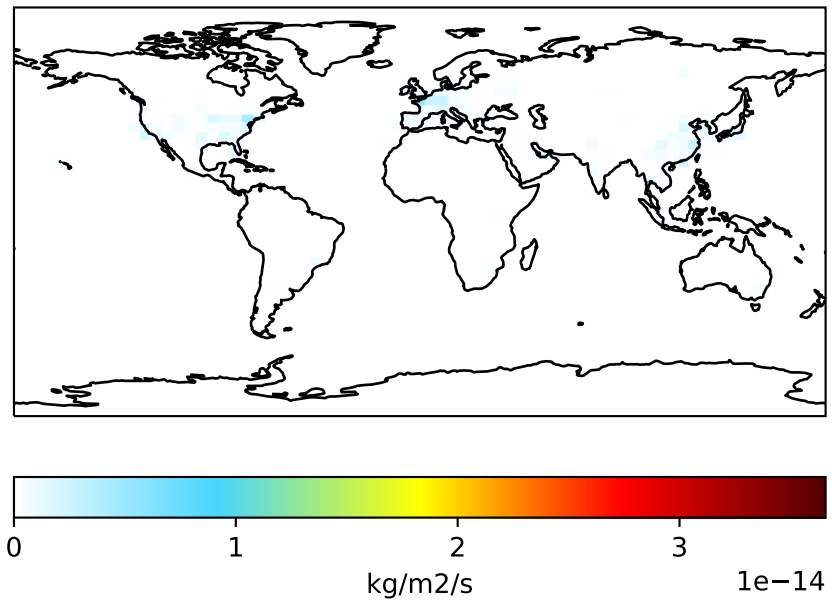


EmisC2H6_Aircraft

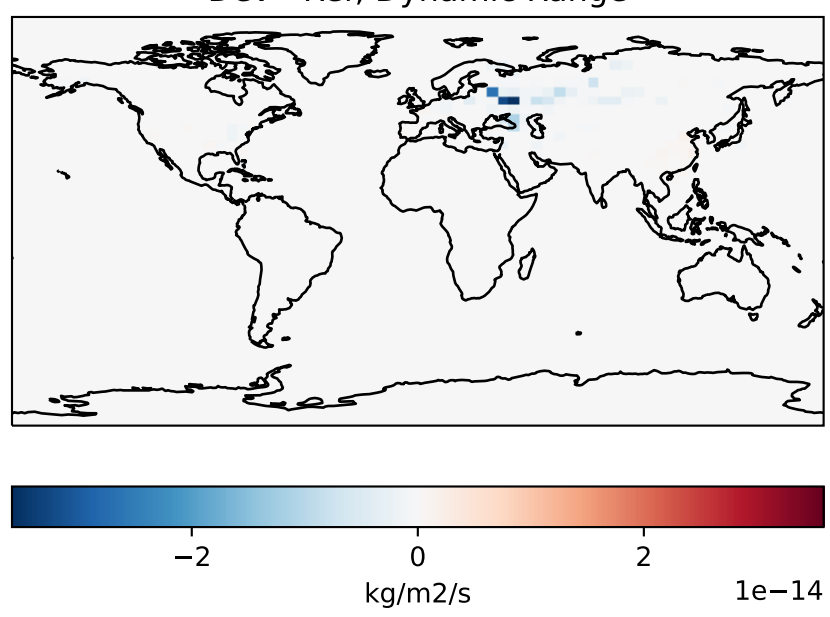
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



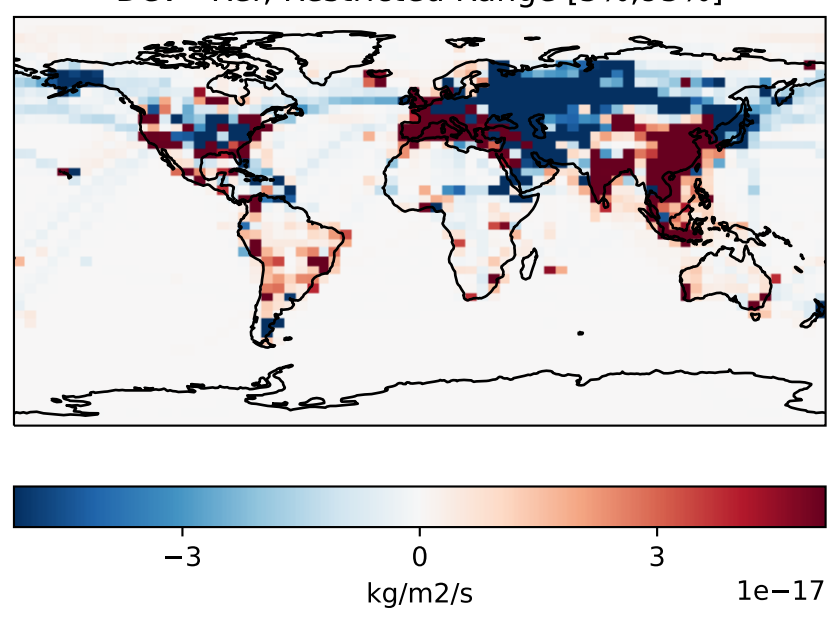
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



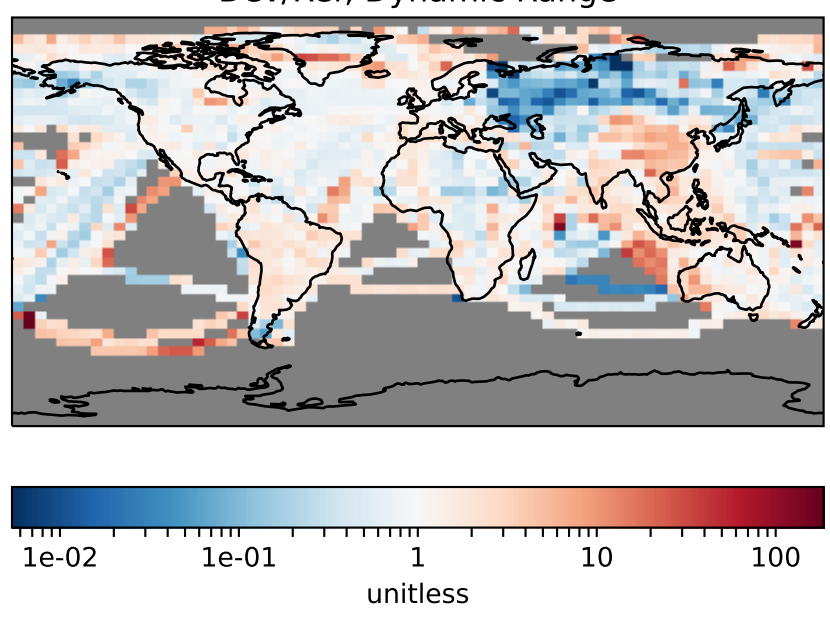
Difference
Dev - Ref, Dynamic Range



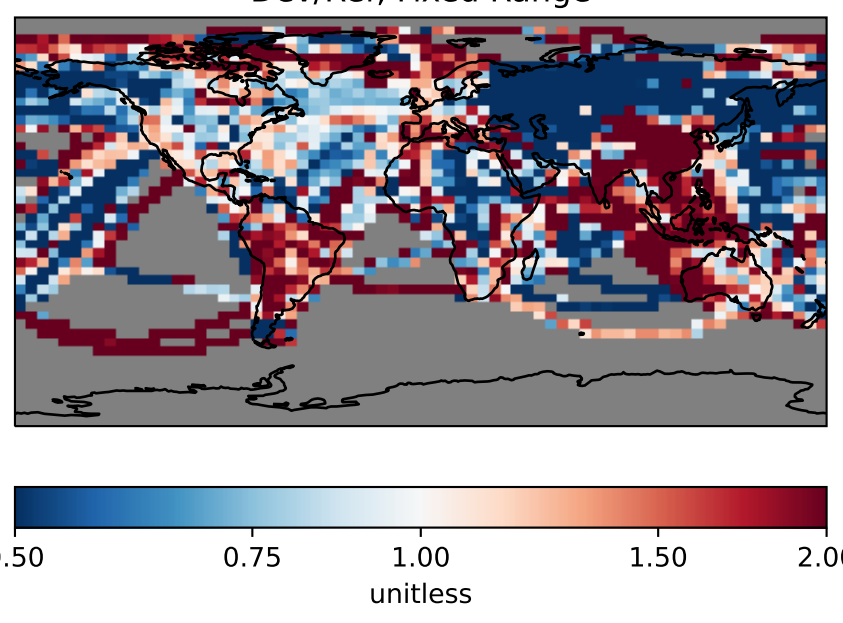
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

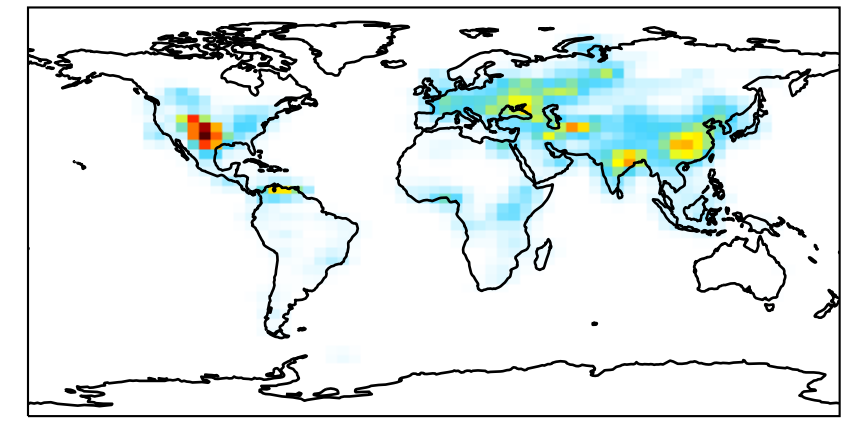


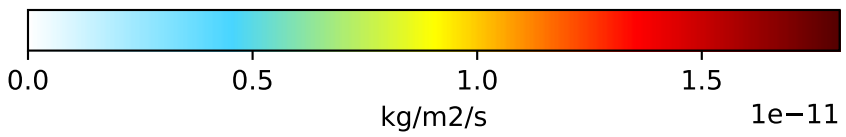
Ratio
Dev/Ref, Fixed Range



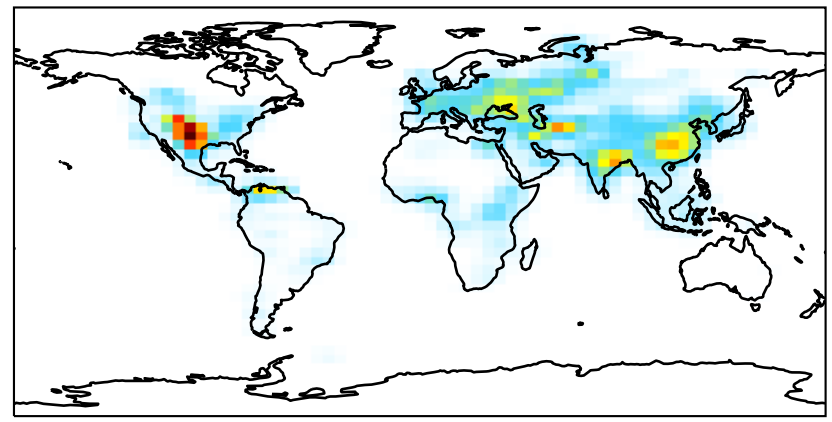
EmisC2H6_Anthro

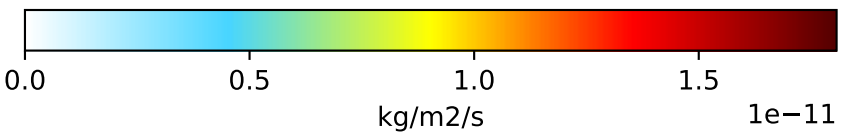
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



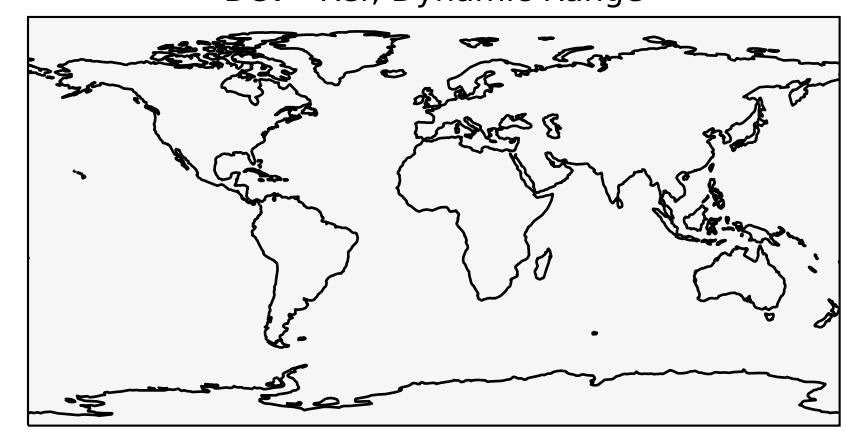


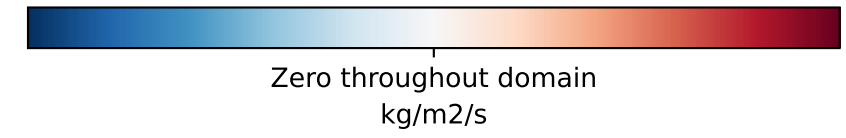
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



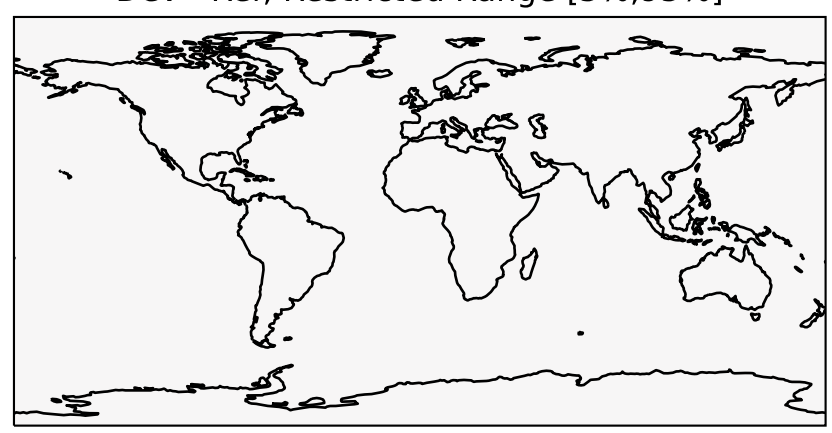


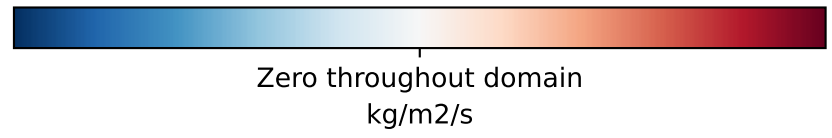
Difference
Dev - Ref, Dynamic Range



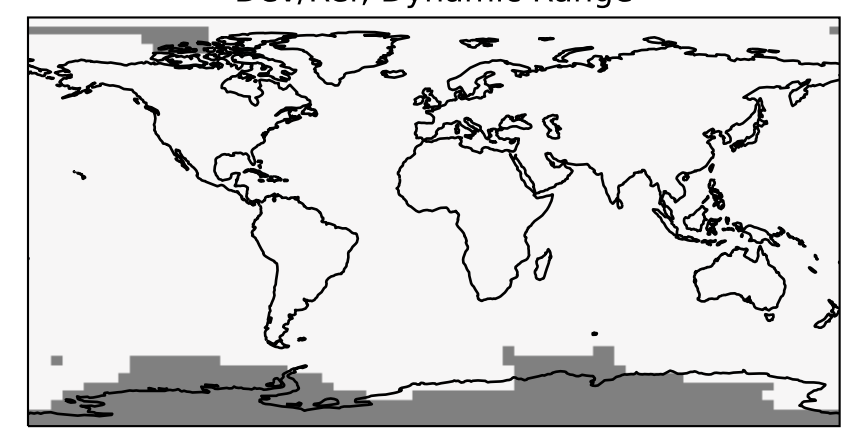


Difference
Dev - Ref, Restricted Range [5%,95%]

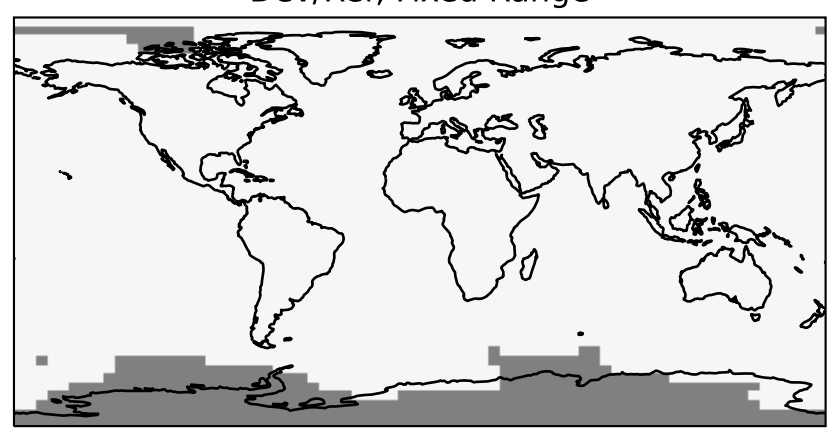


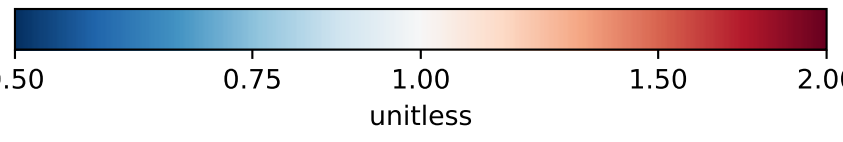


Ratio
Dev/Ref, Dynamic Range



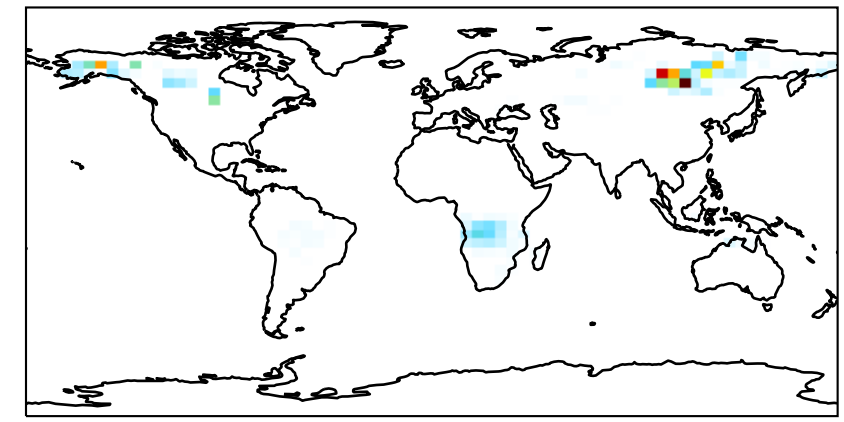
Ratio
Dev/Ref, Fixed Range

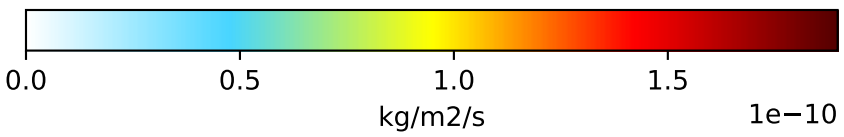




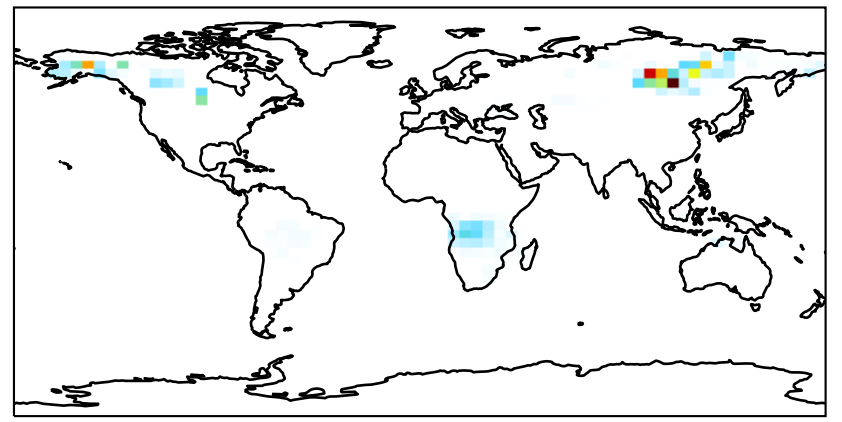
EmisC2H6_BioBurn

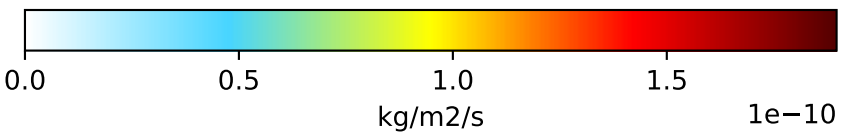
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



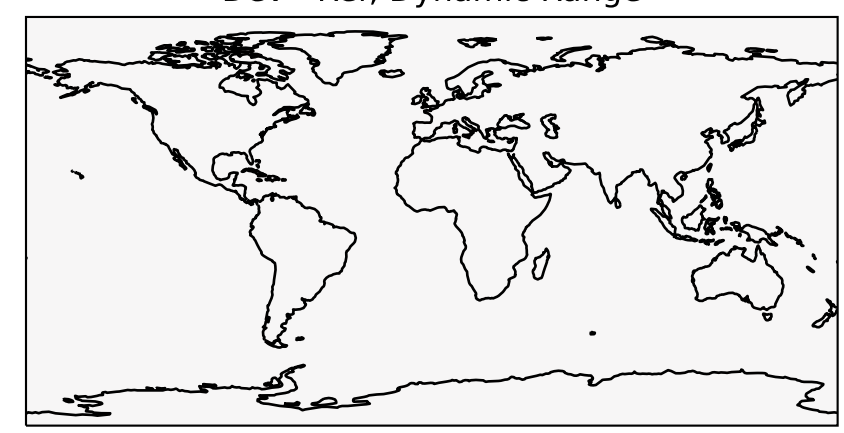


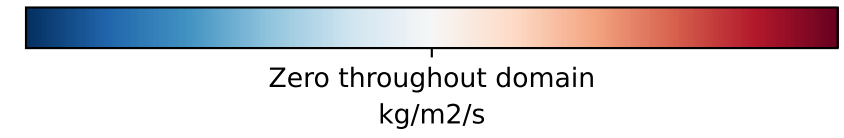
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



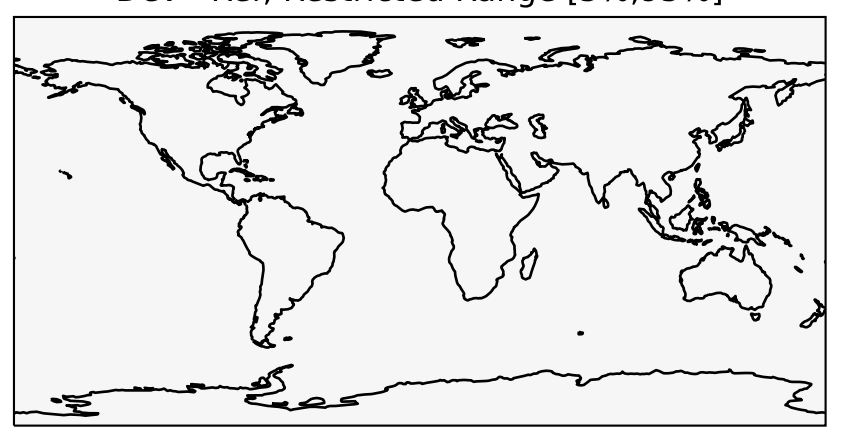


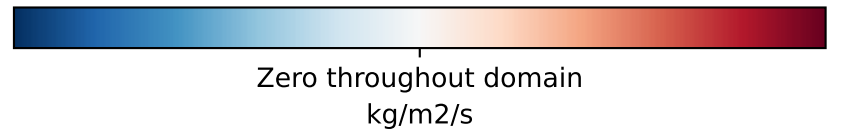
Difference
Dev - Ref, Dynamic Range



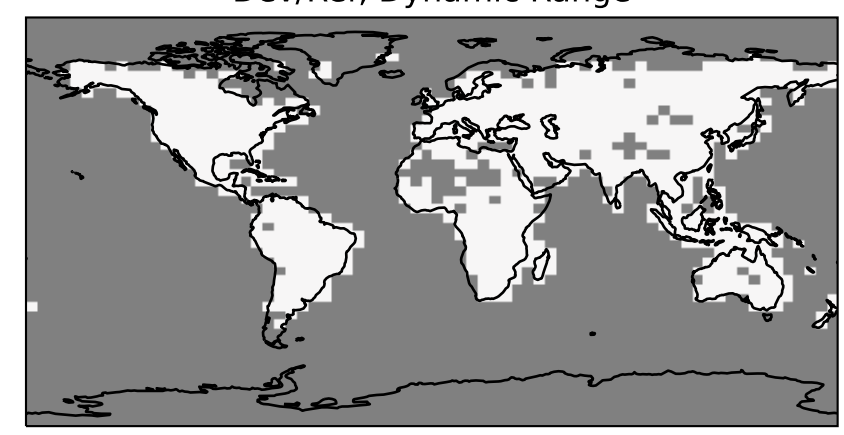


Difference
Dev - Ref, Restricted Range [5%,95%]

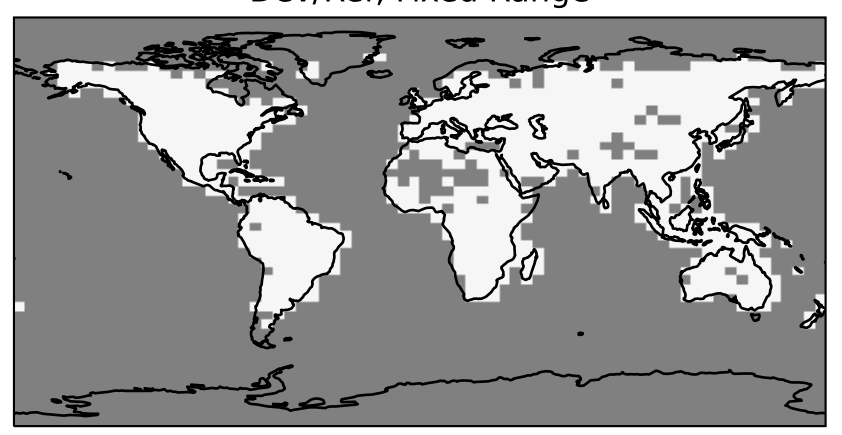


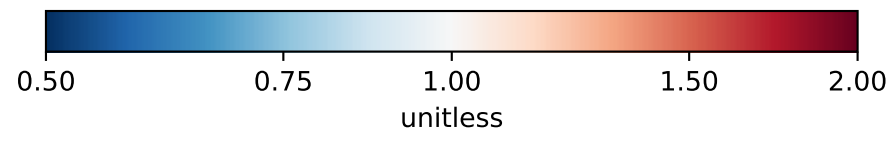


Ratio
Dev/Ref, Dynamic Range



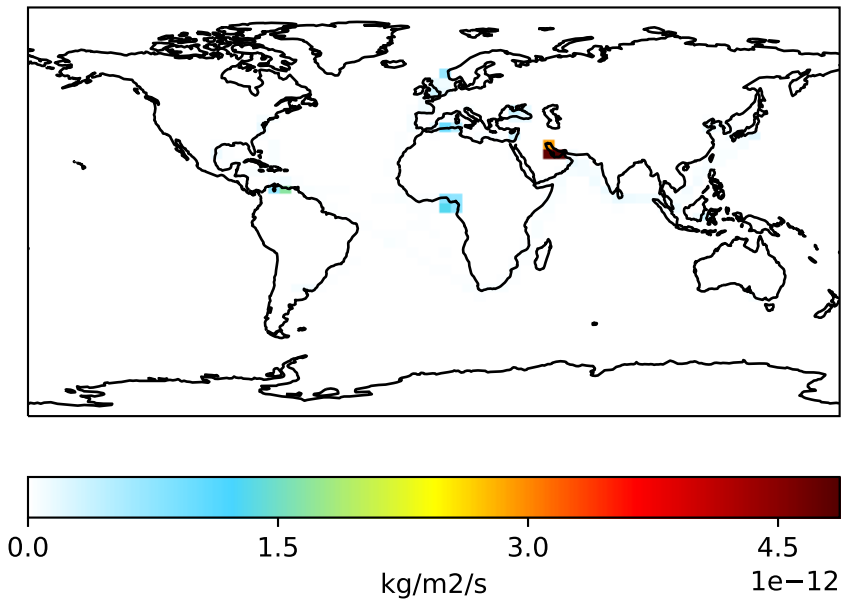
Ratio
Dev/Ref, Fixed Range



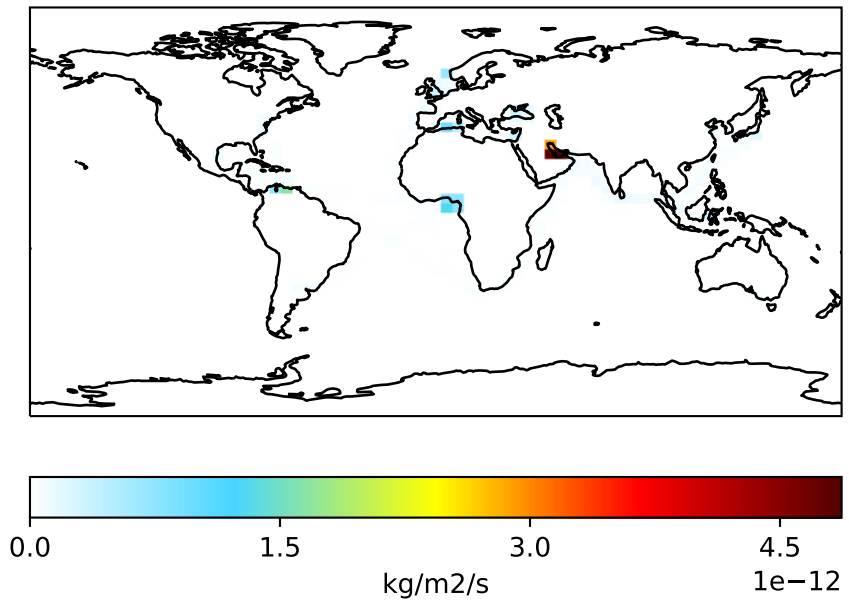


EmisC2H6_Ship

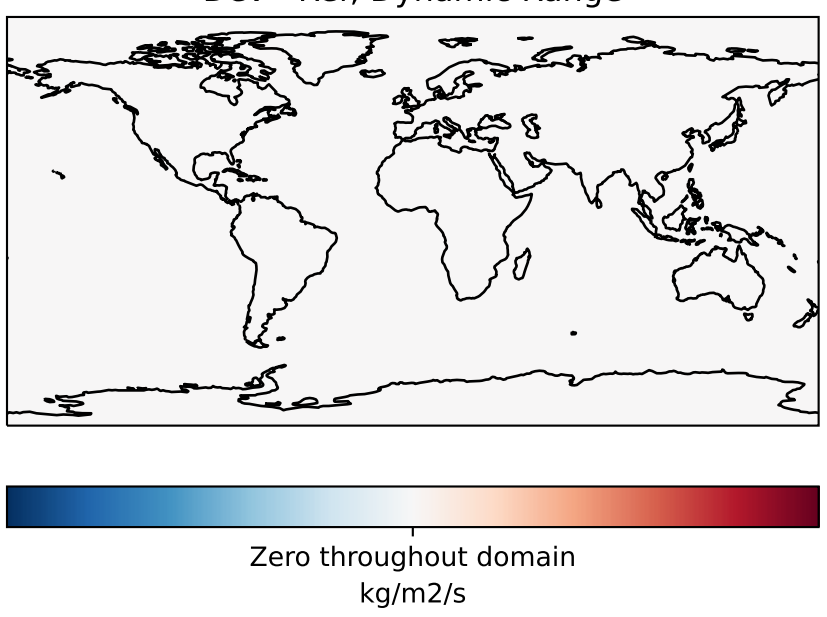
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



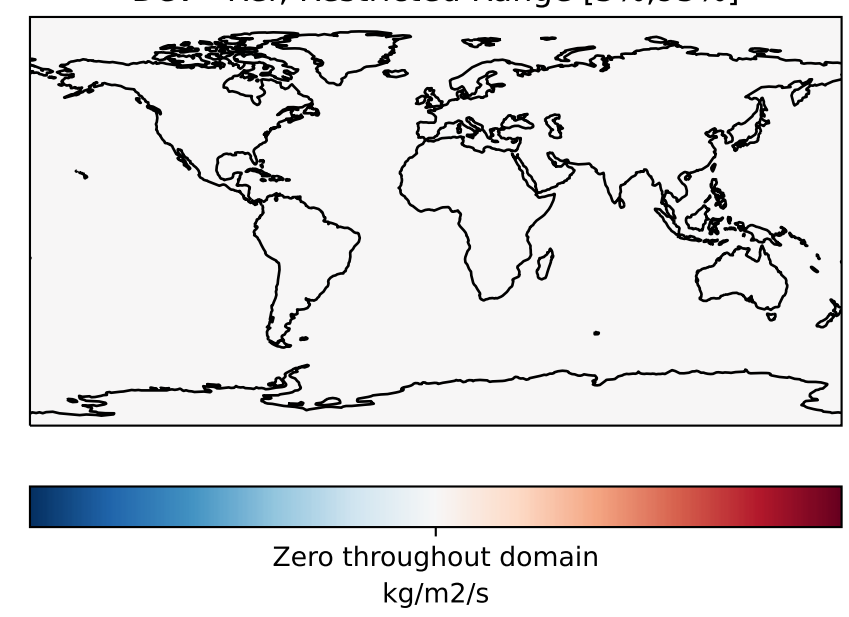
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



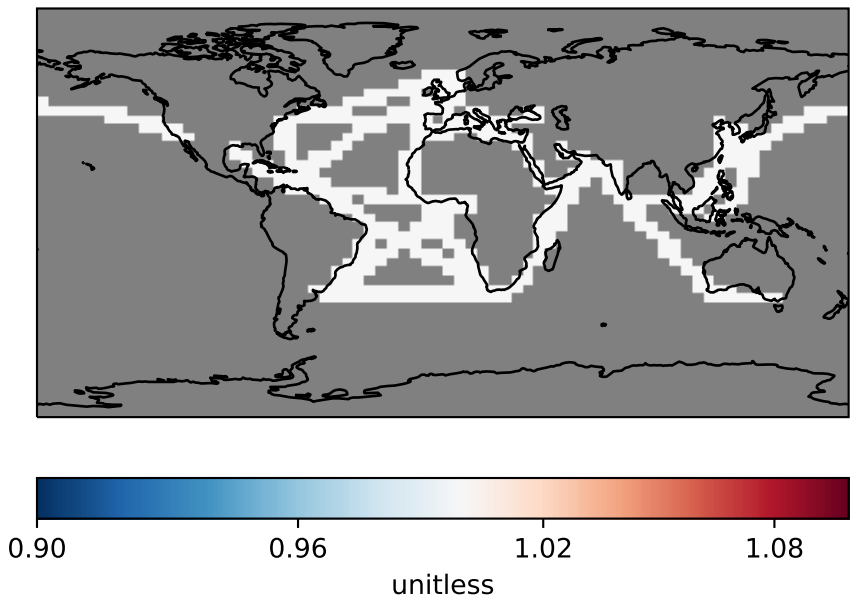
Difference
Dev - Ref, Dynamic Range



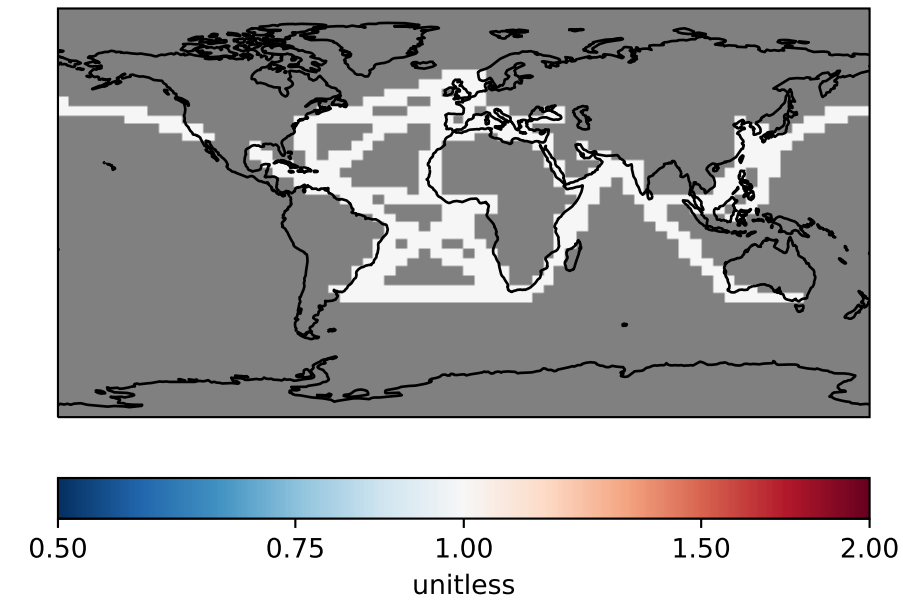
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

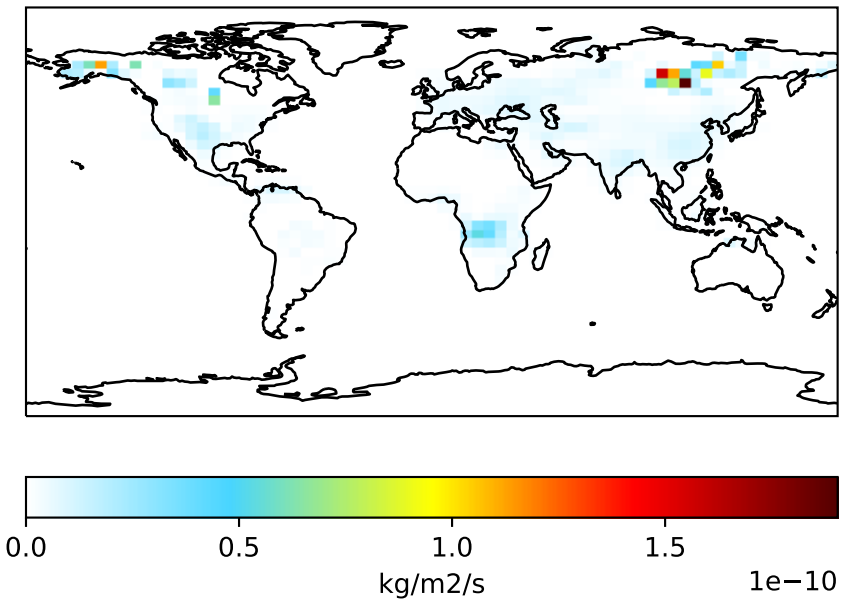


Ratio
Dev/Ref, Fixed Range

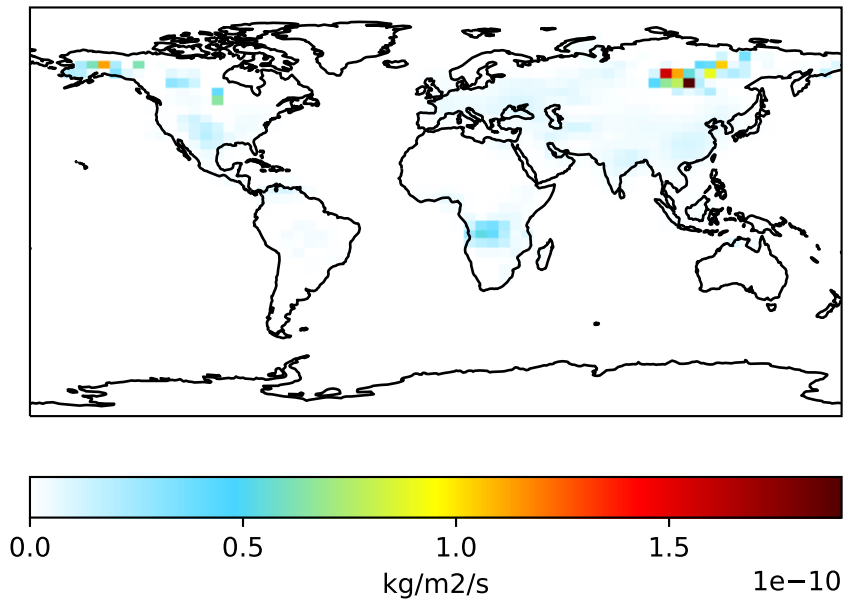


EmisC2H6_Total

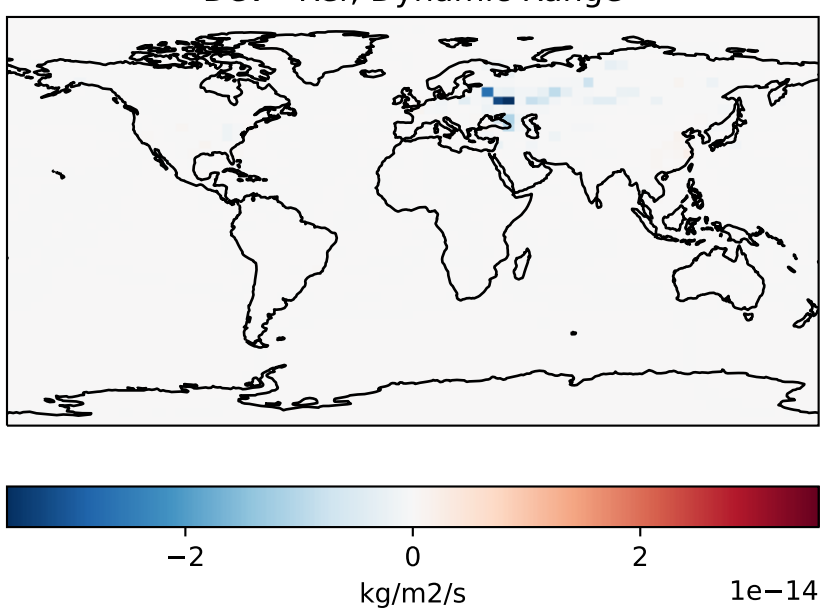
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



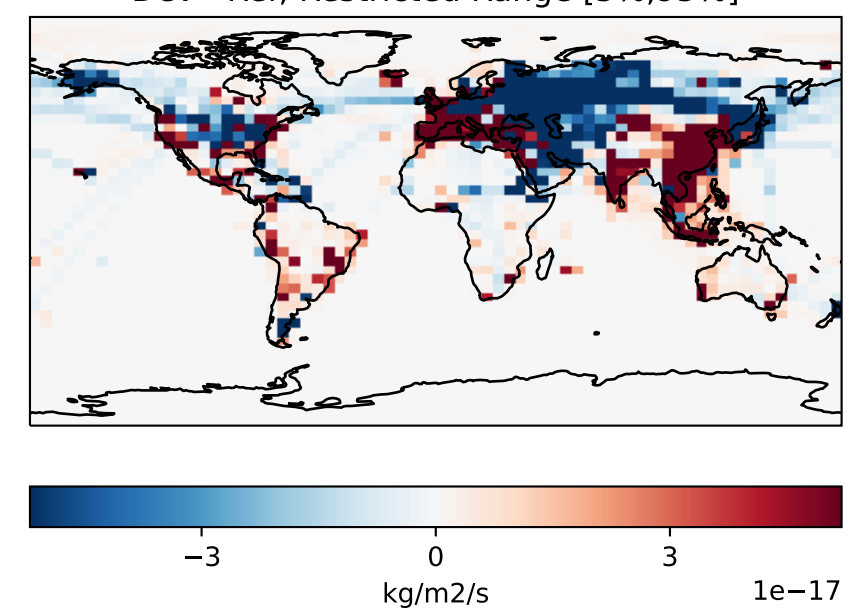
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



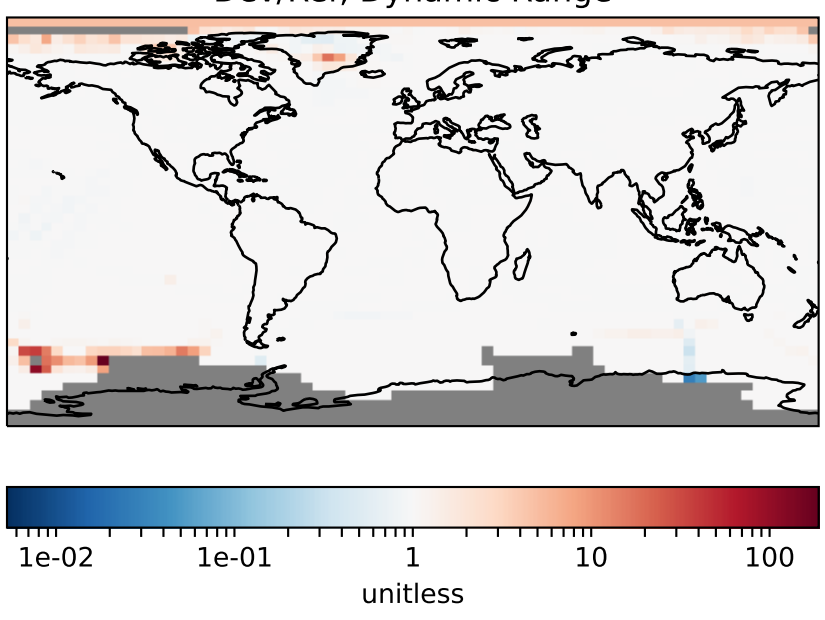
Difference
Dev - Ref, Dynamic Range



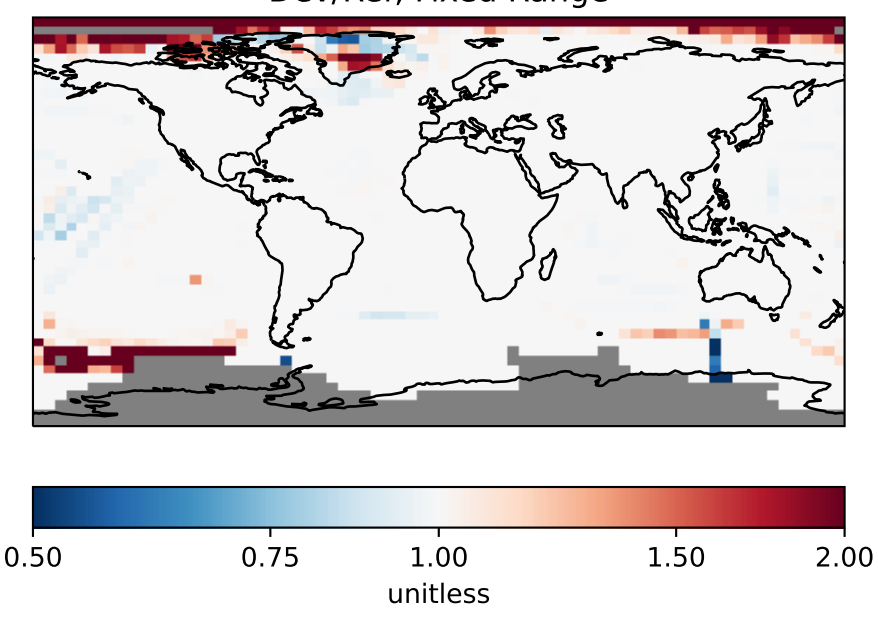
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

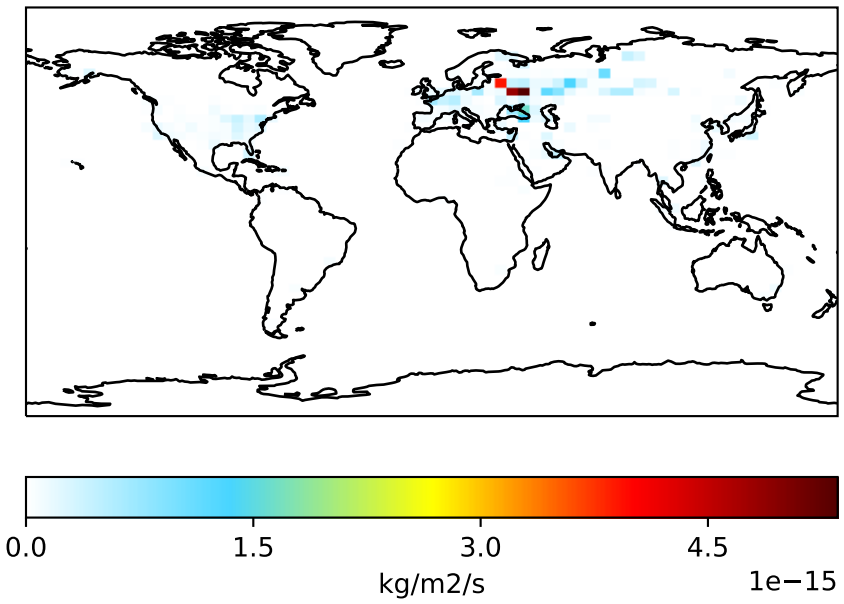


Ratio
Dev/Ref, Fixed Range

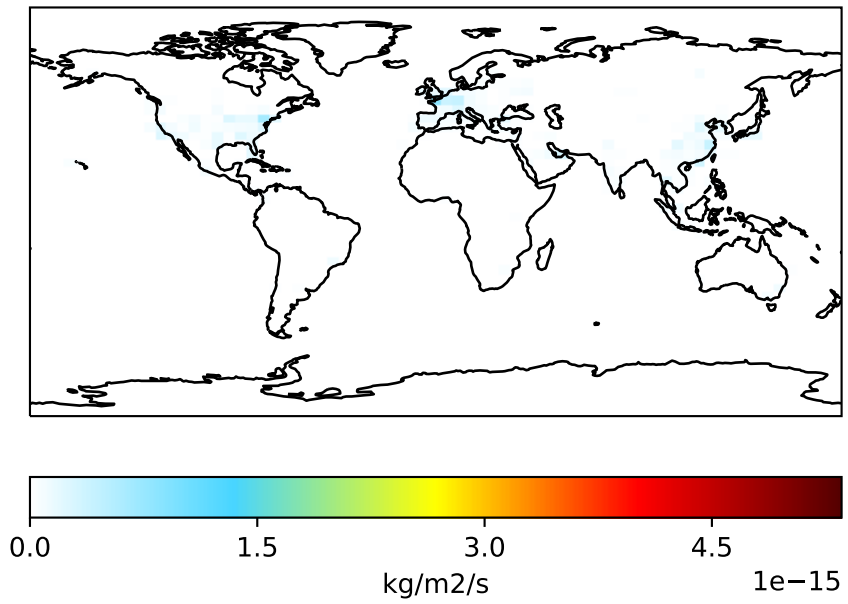


EmisC3H8_Aircraft

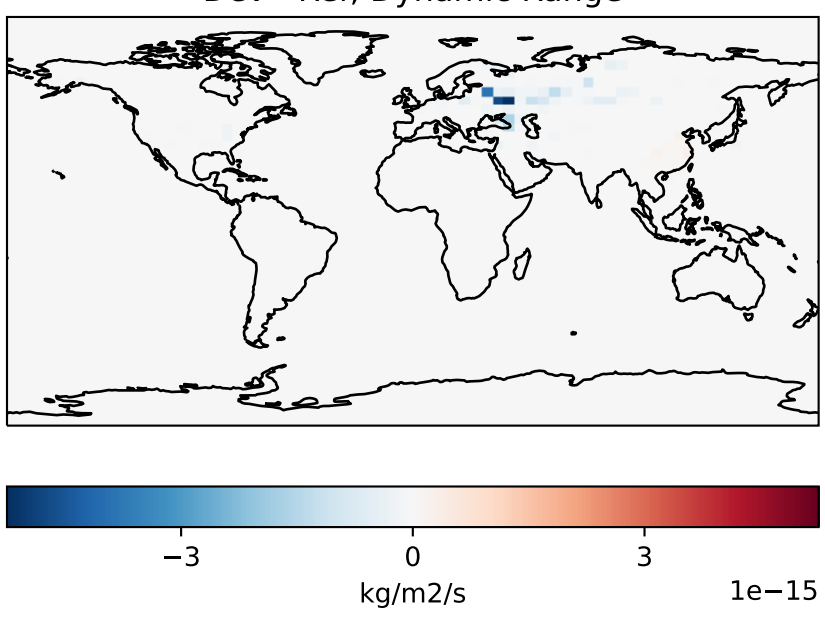
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



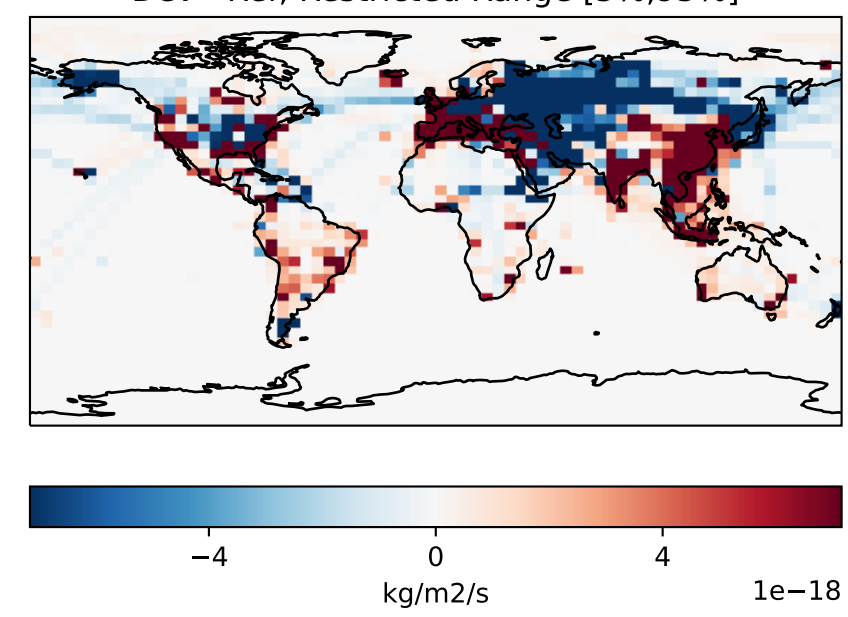
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



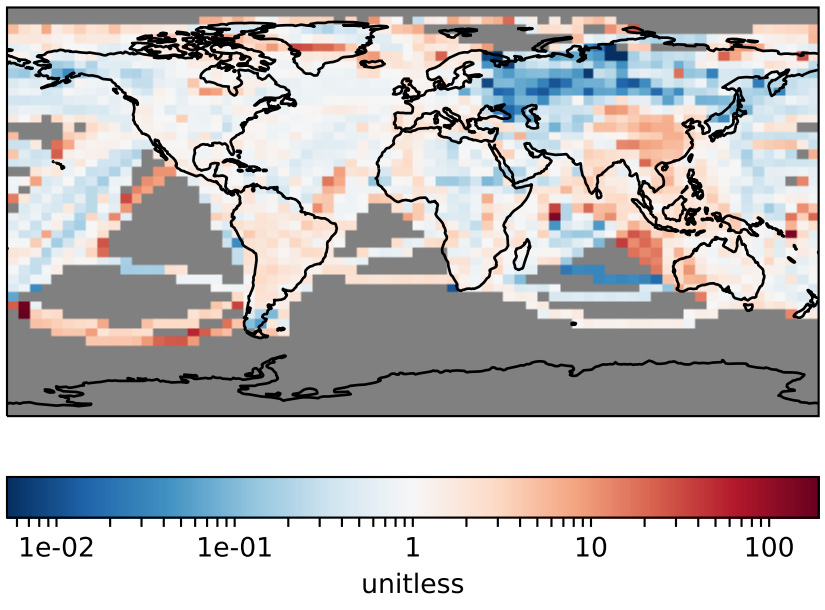
Difference
Dev - Ref, Dynamic Range



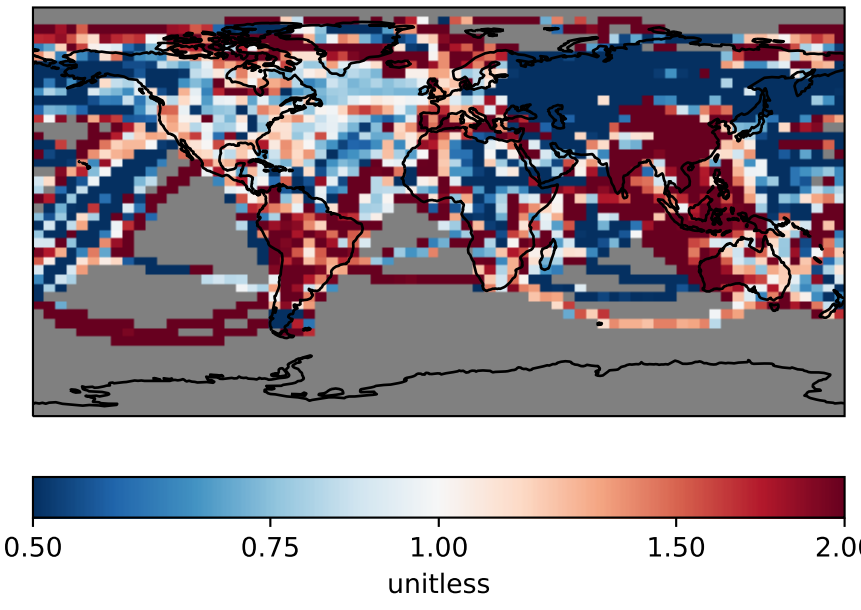
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

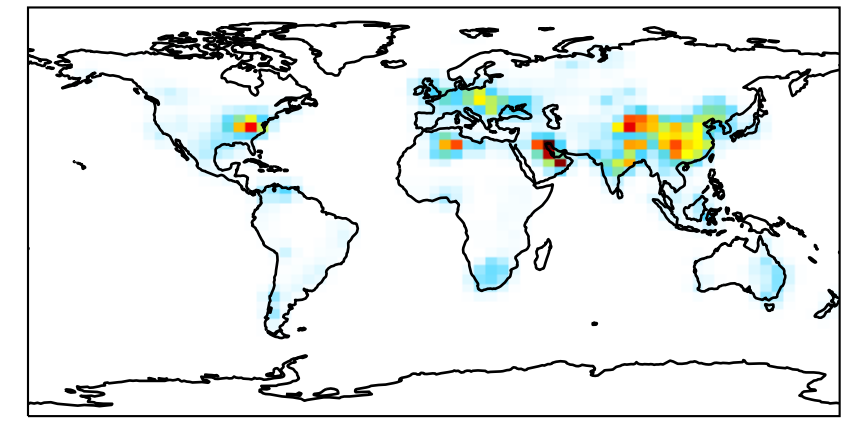


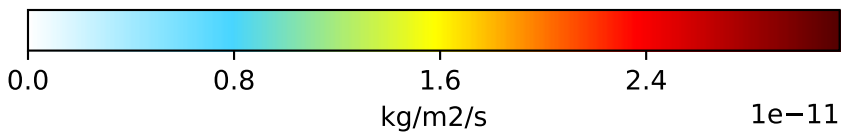
Ratio
Dev/Ref, Fixed Range



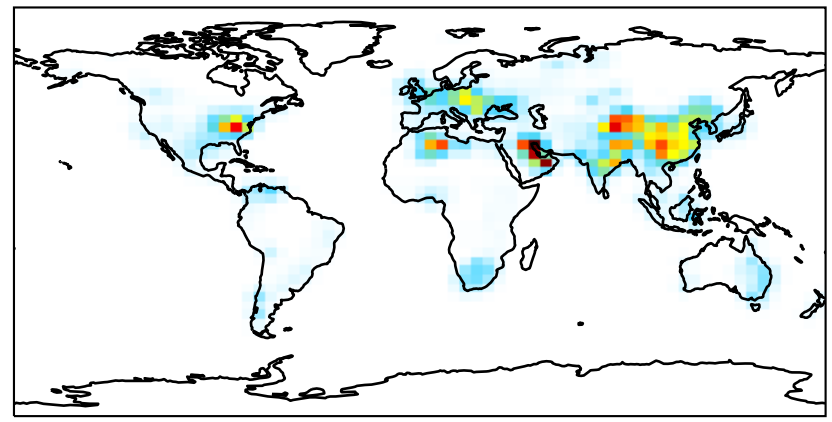
EmisC3H8_Anthro

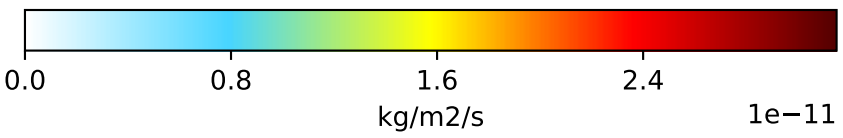
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



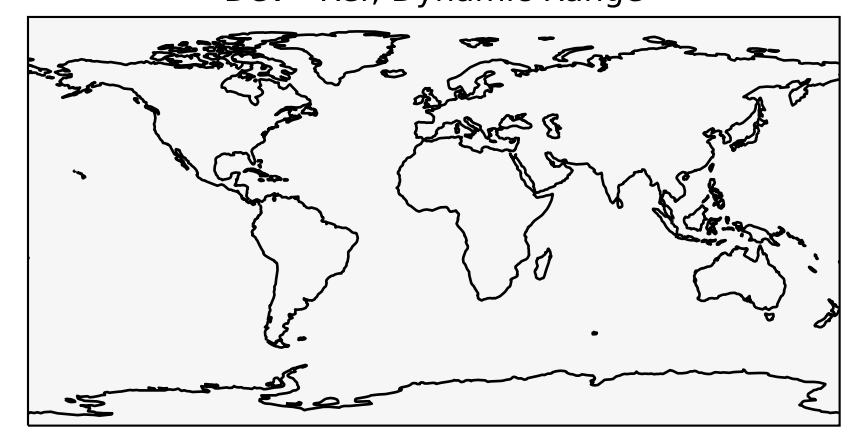


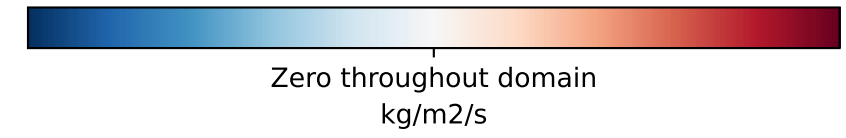
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



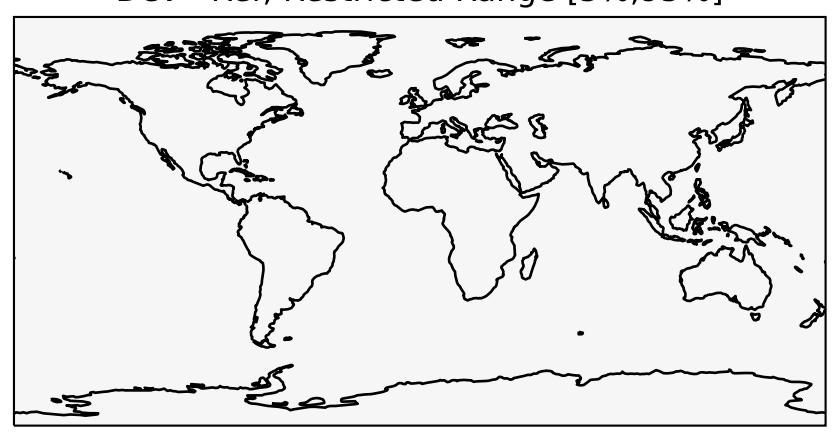


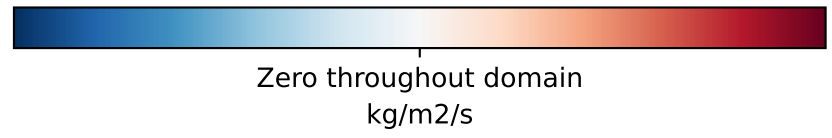
Difference
Dev - Ref, Dynamic Range



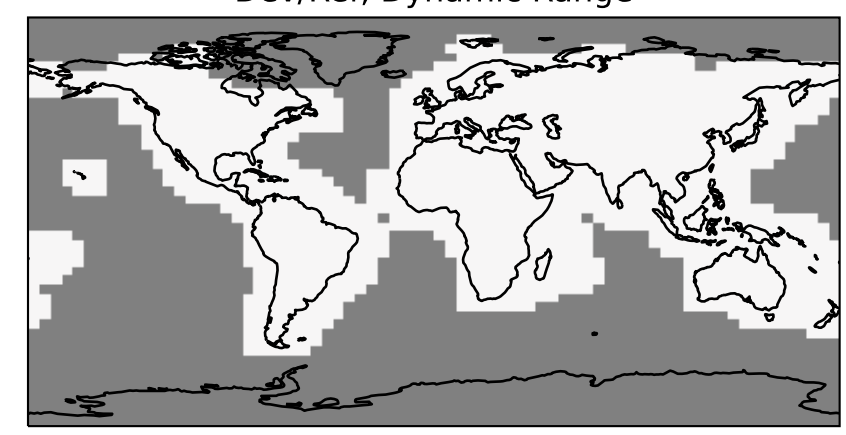


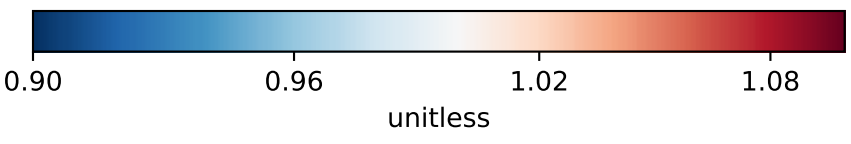
Difference
Dev - Ref, Restricted Range [5%,95%]



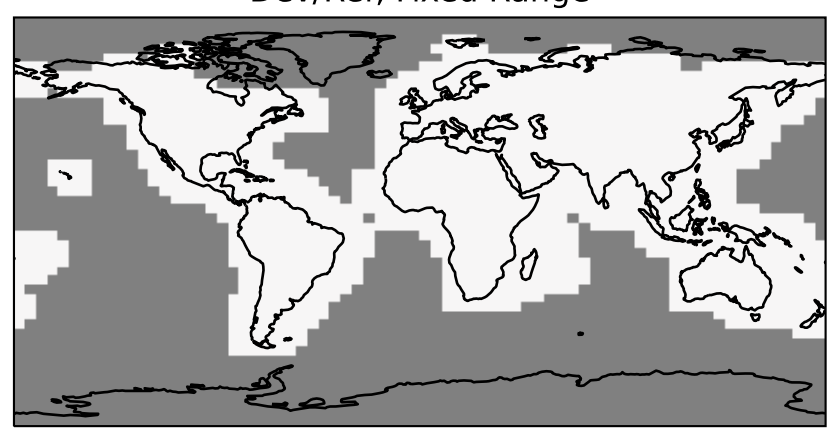


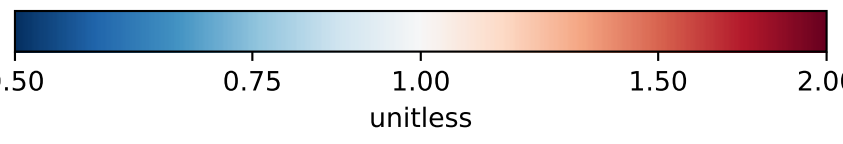
Ratio
Dev/Ref, Dynamic Range





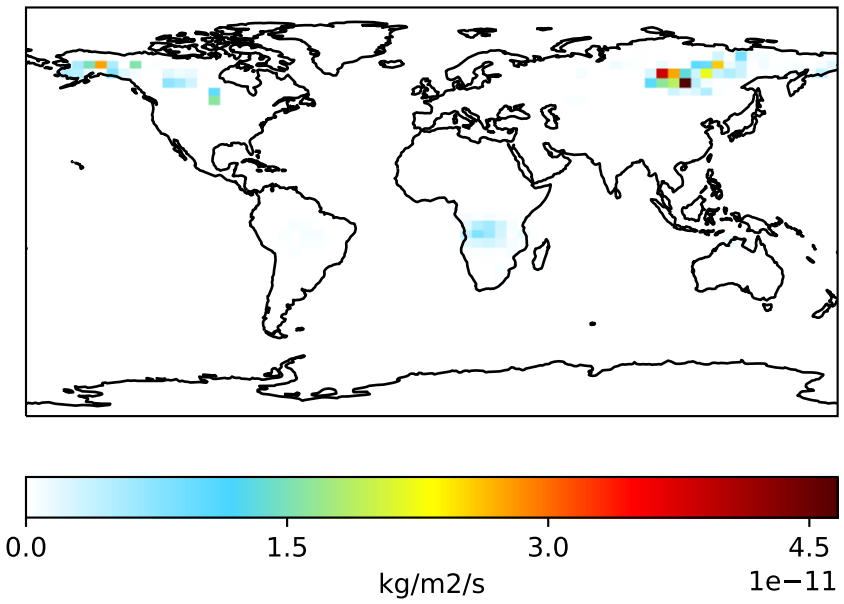
Ratio
Dev/Ref, Fixed Range



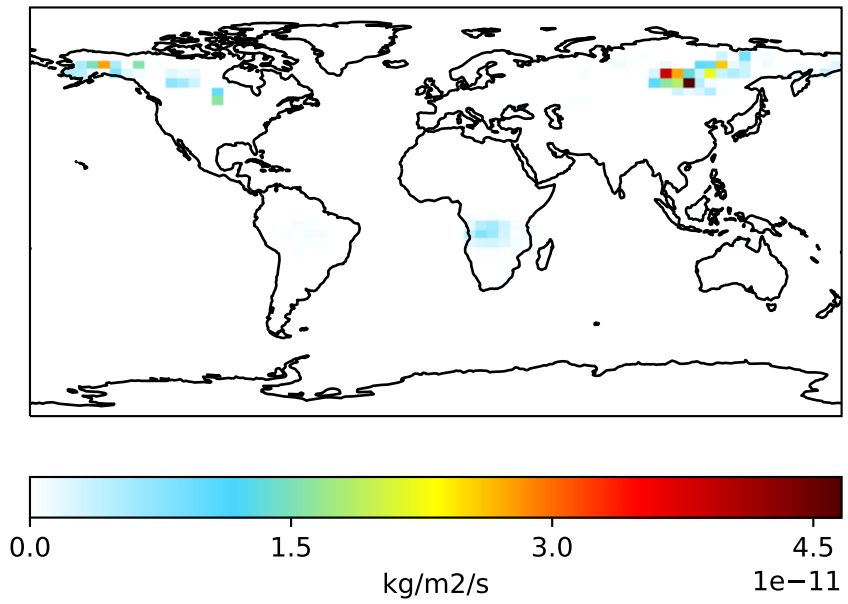


EmisC3H8_BioBurn

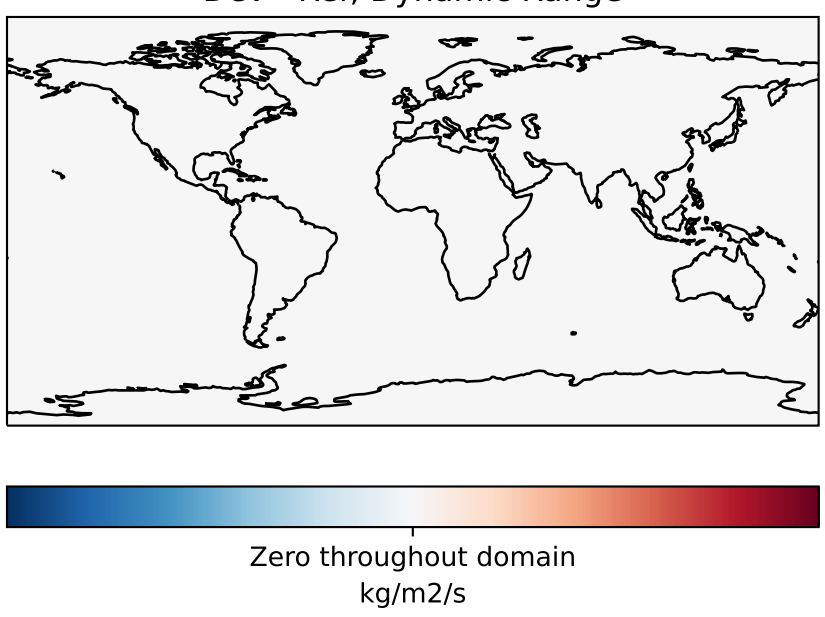
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



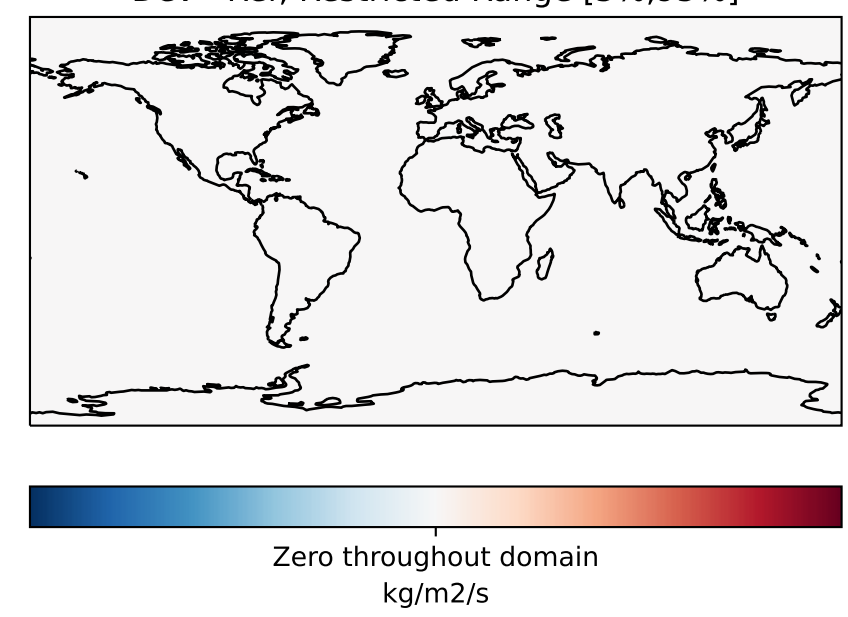
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



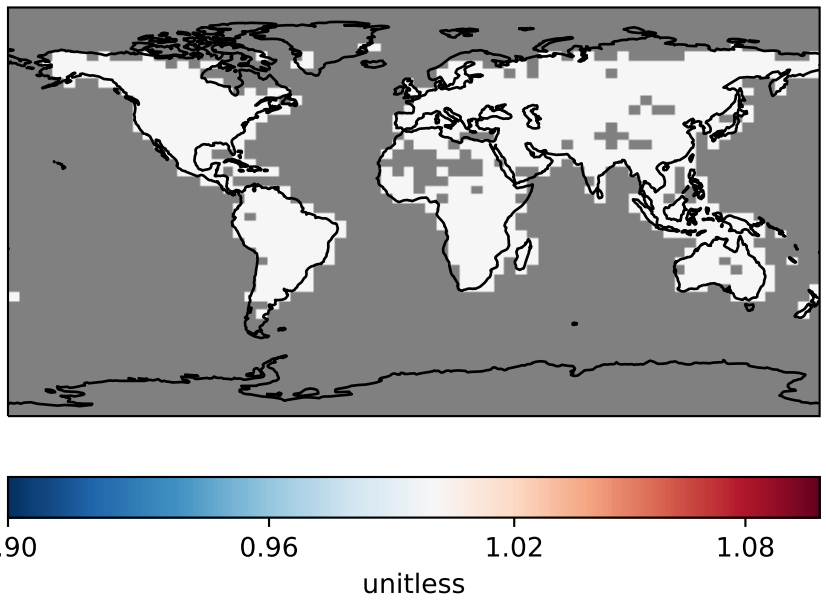
Difference
Dev - Ref, Dynamic Range



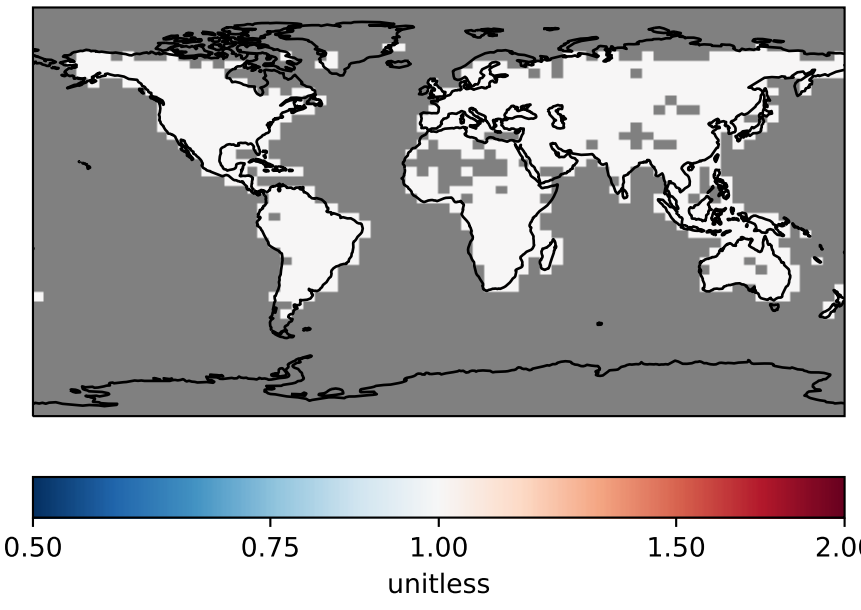
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

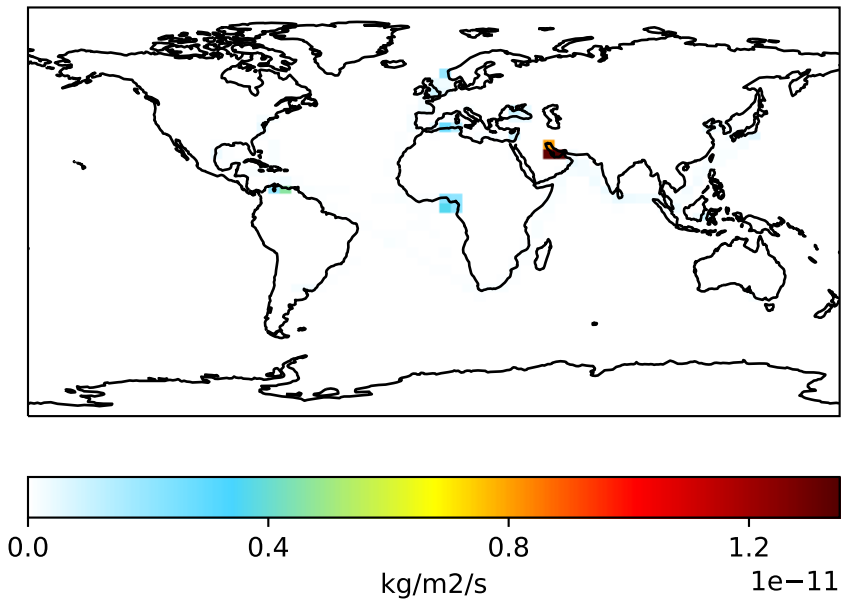


Ratio
Dev/Ref, Fixed Range

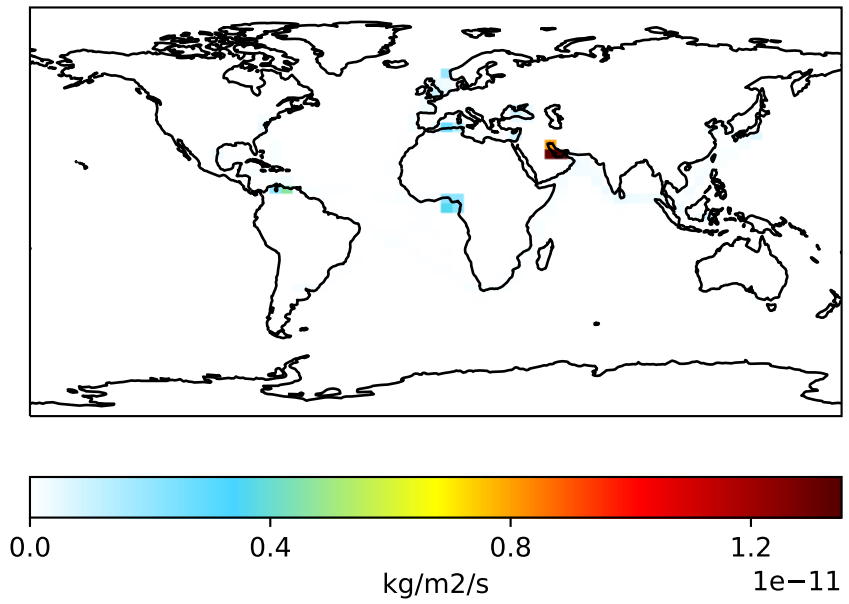


EmisC3H8_Ship

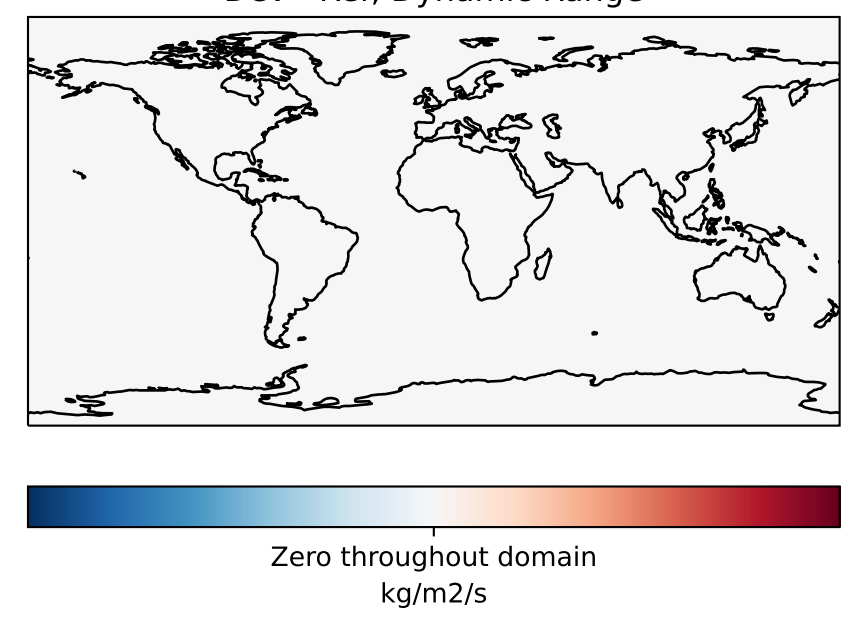
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



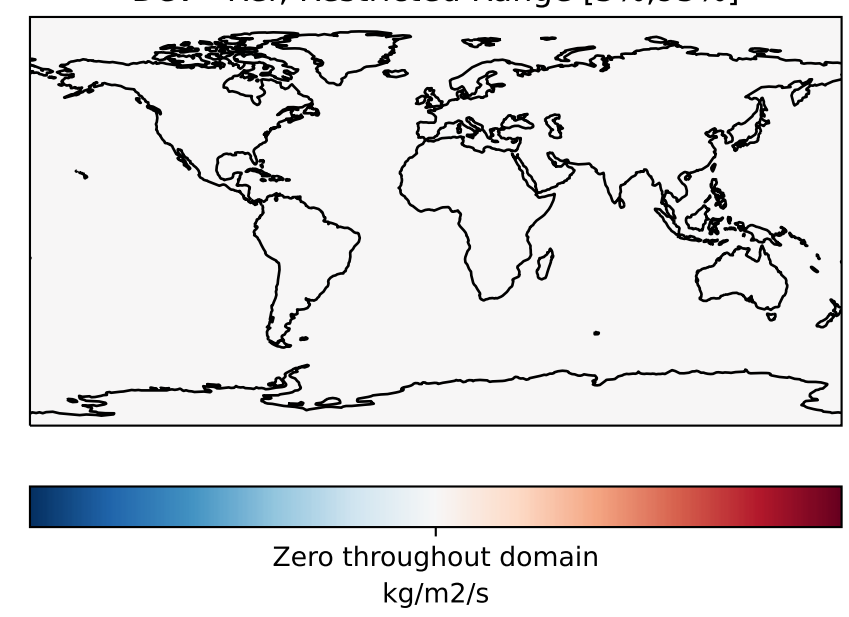
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



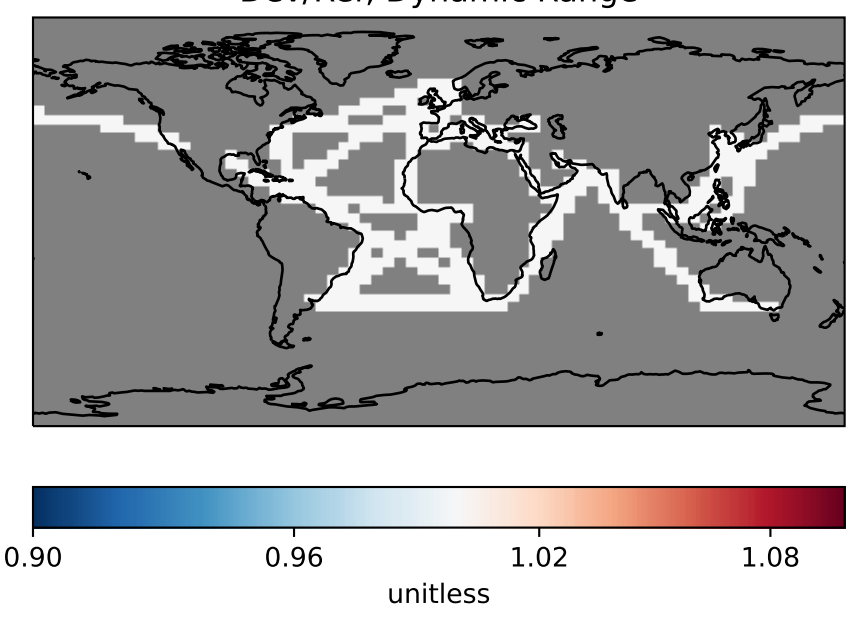
Difference
Dev - Ref, Dynamic Range



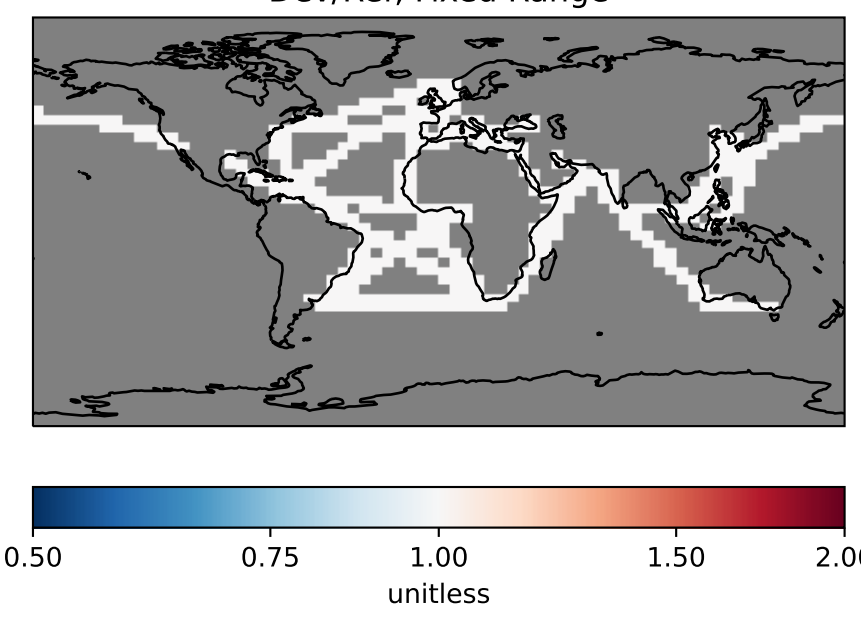
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

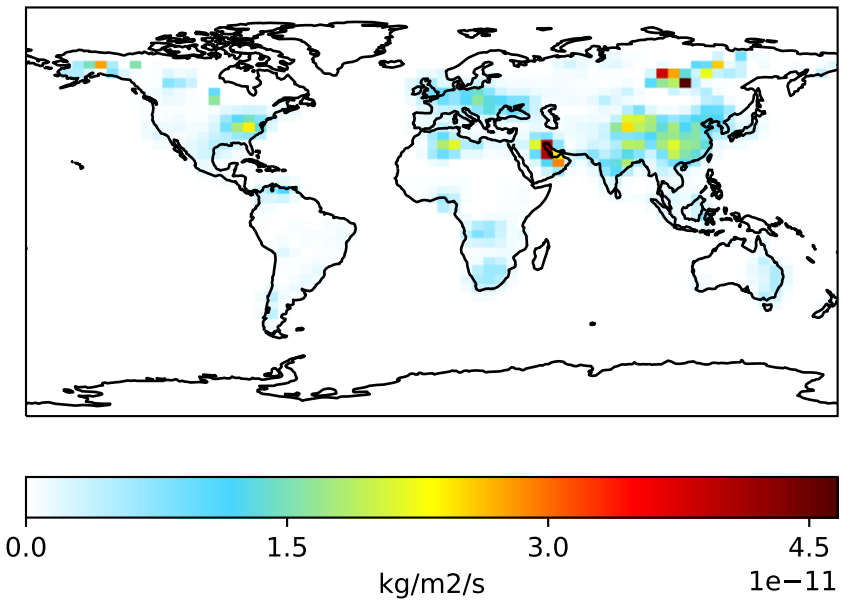


Ratio
Dev/Ref, Fixed Range

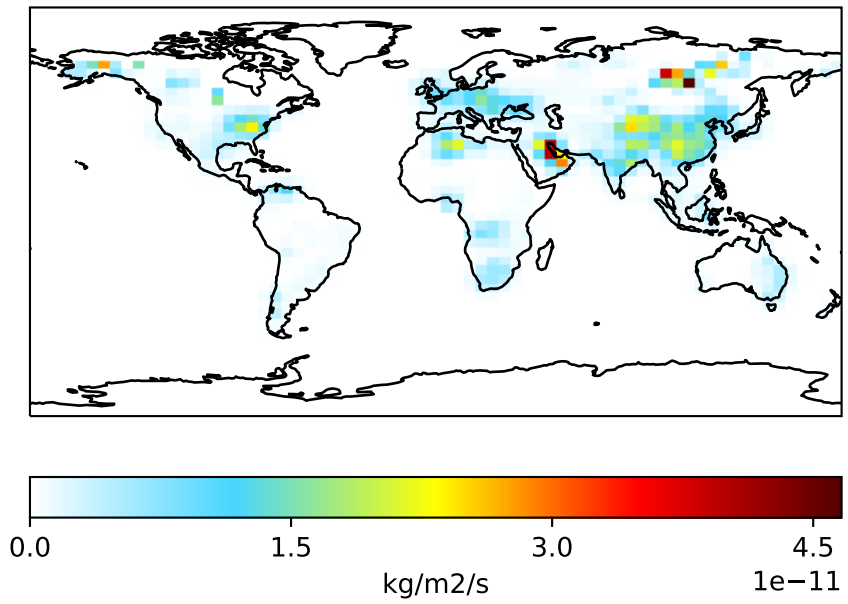


EmisC3H8_Total

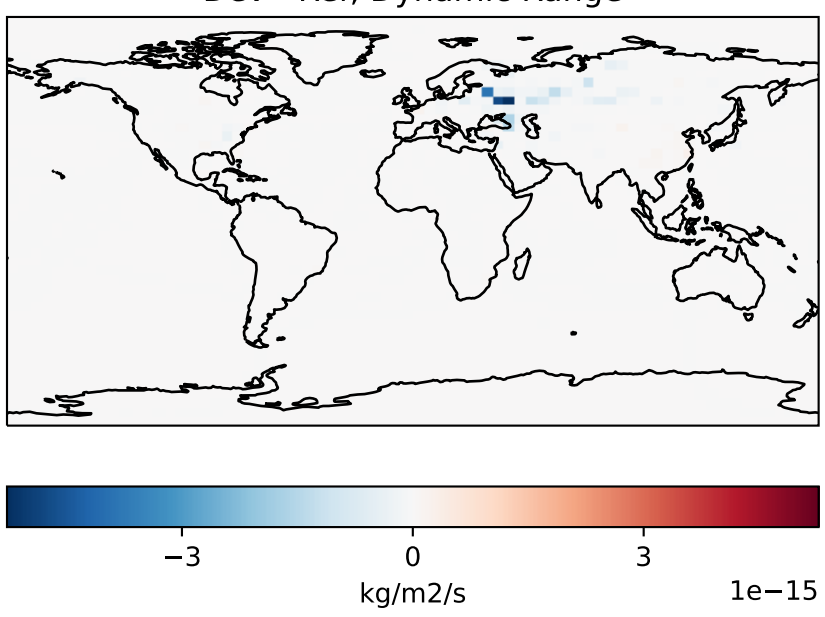
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



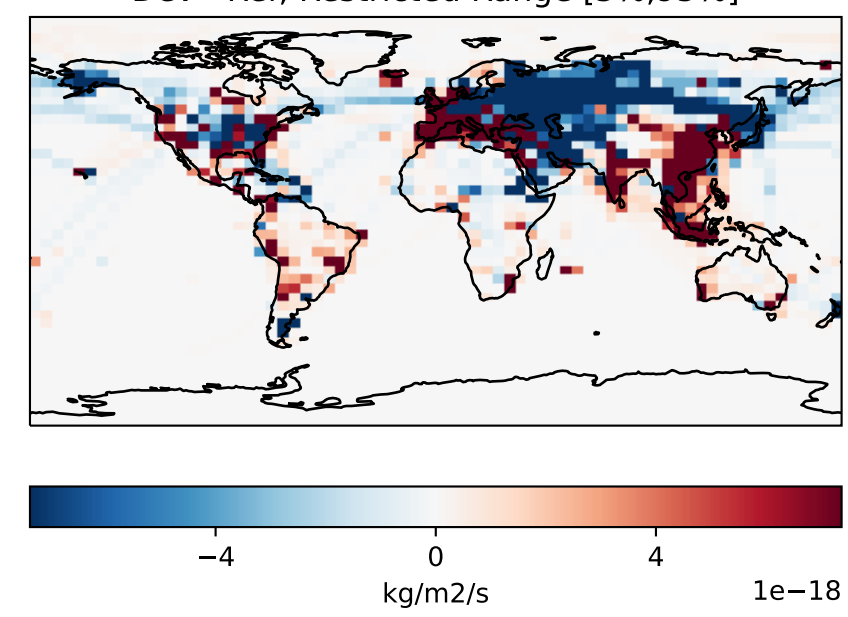
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



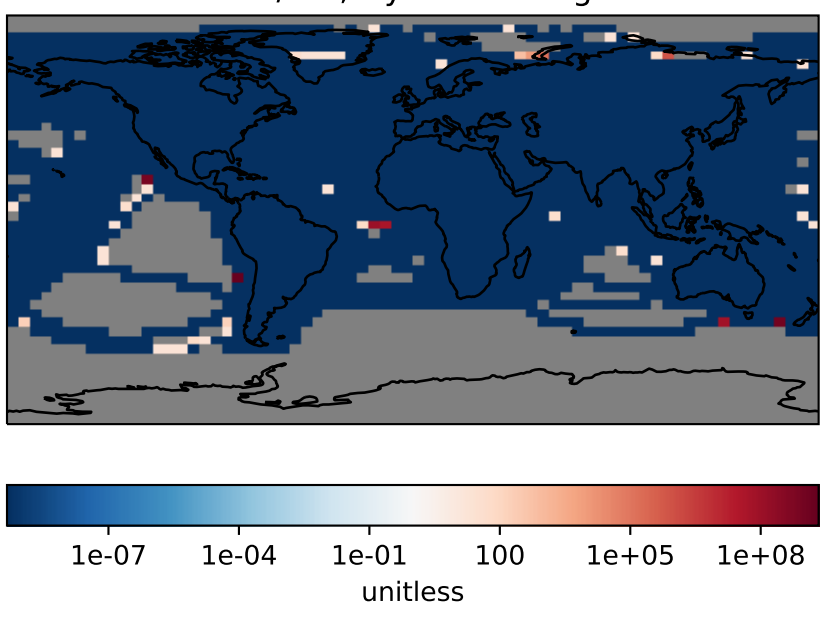
Difference
Dev - Ref, Dynamic Range



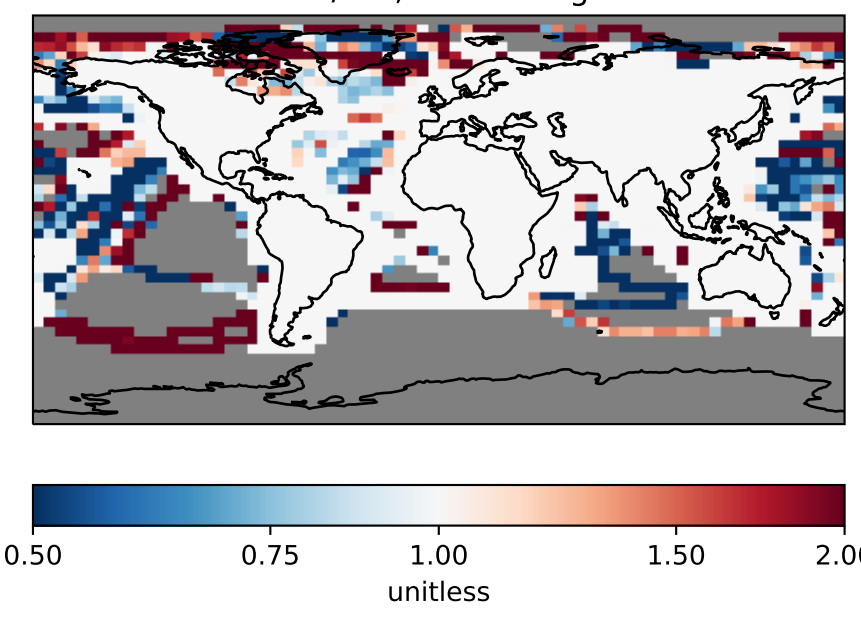
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

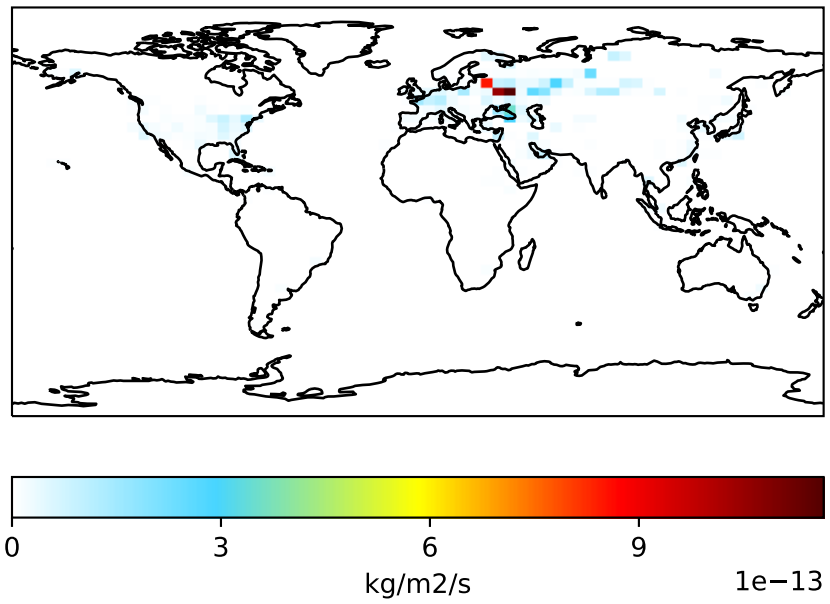


Ratio
Dev/Ref, Fixed Range

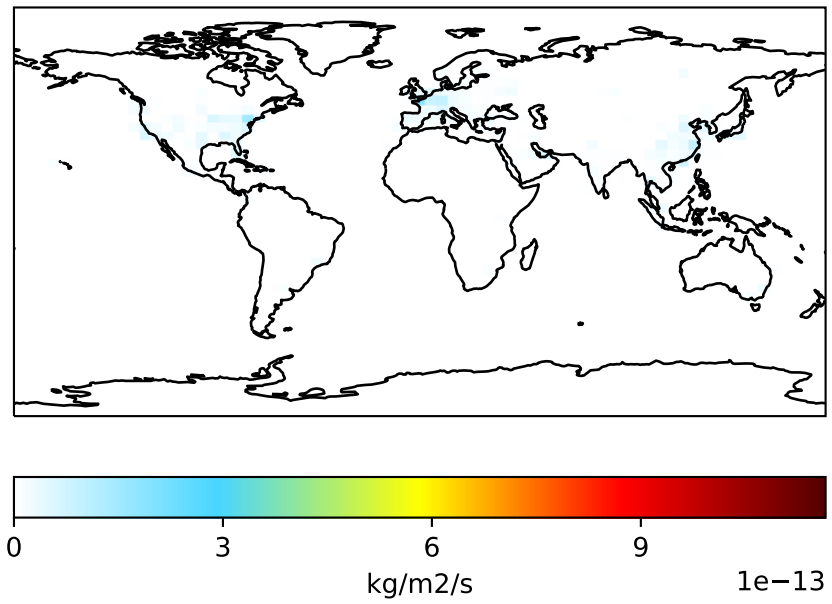


EmisPRPE_Aircraft

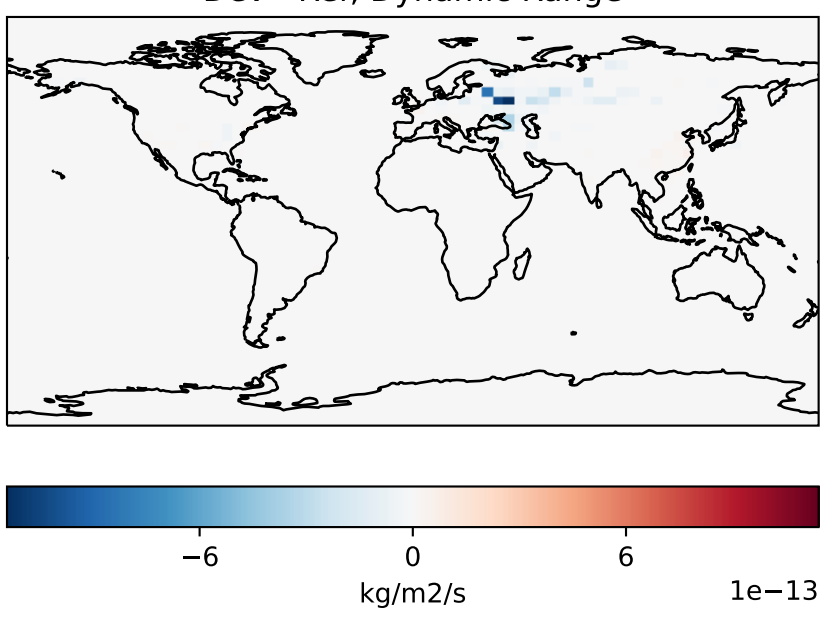
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



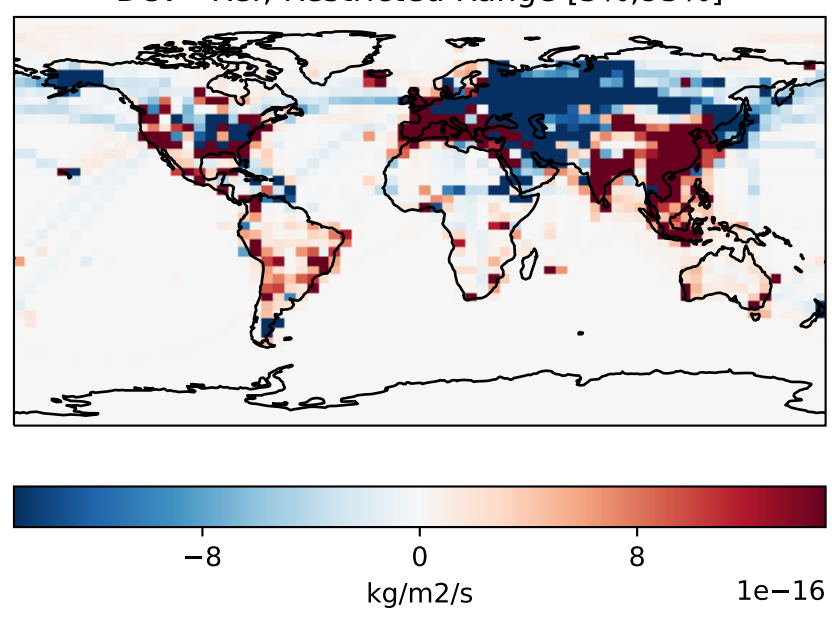
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



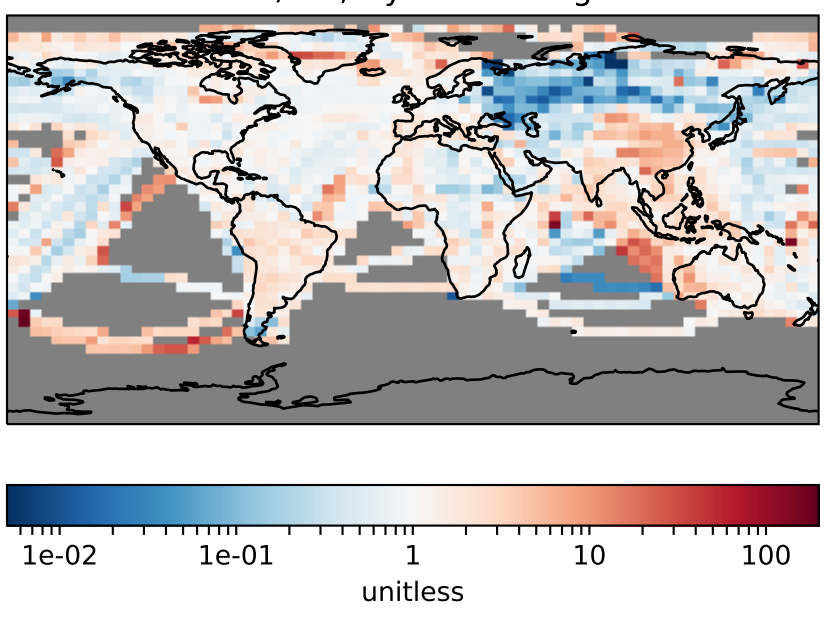
Difference
Dev - Ref, Dynamic Range



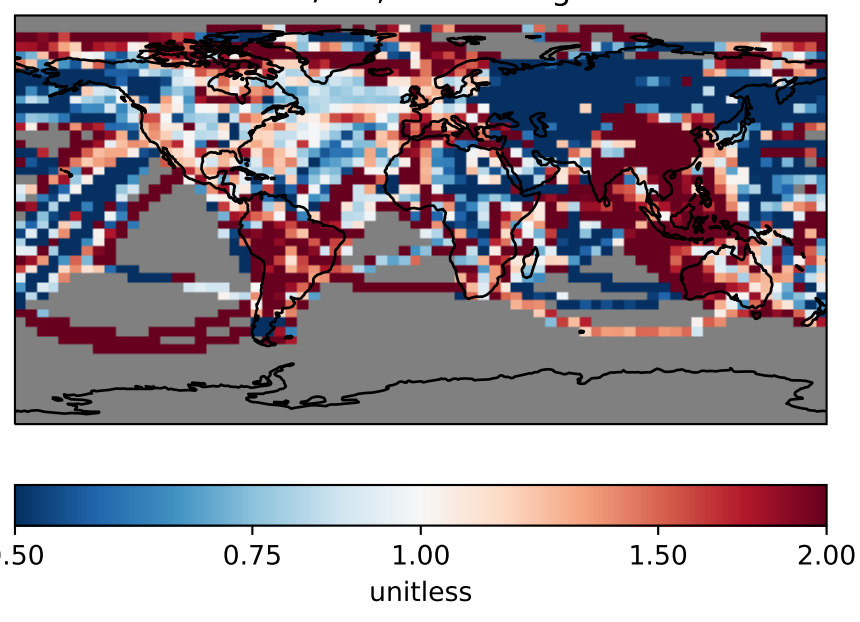
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

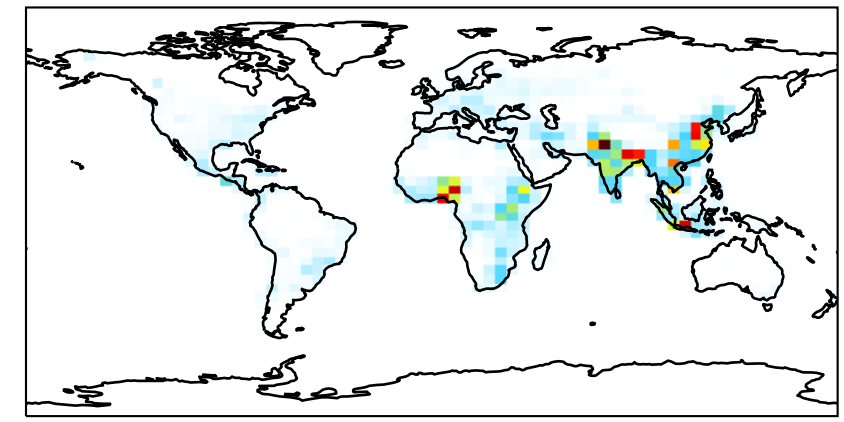


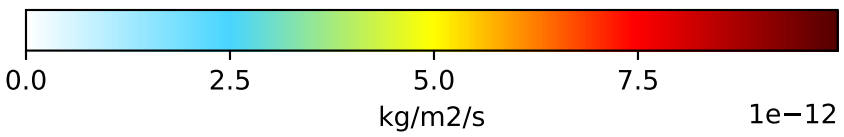
Ratio
Dev/Ref, Fixed Range



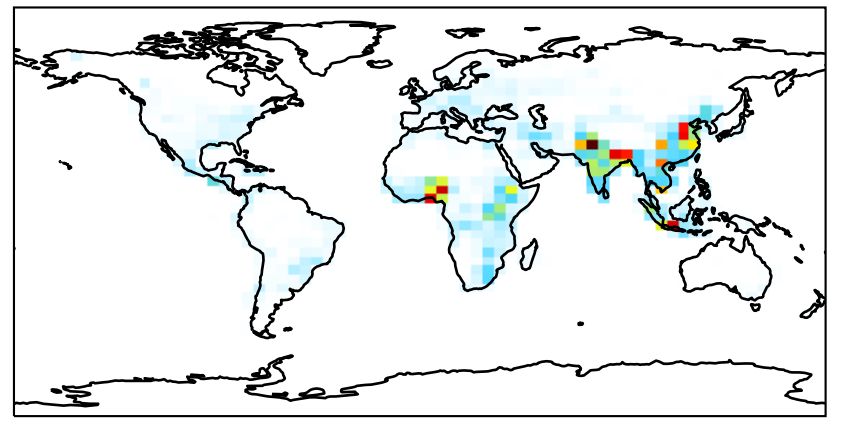
EmisPRPE_Anthro

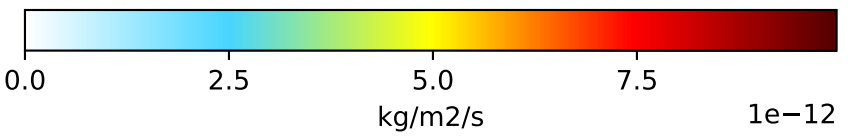
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



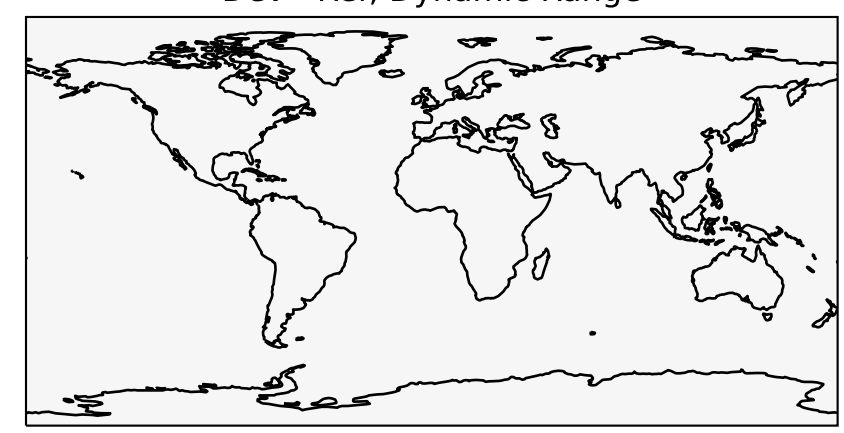


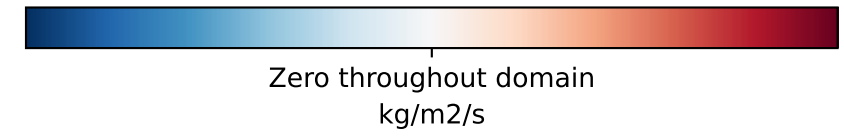
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



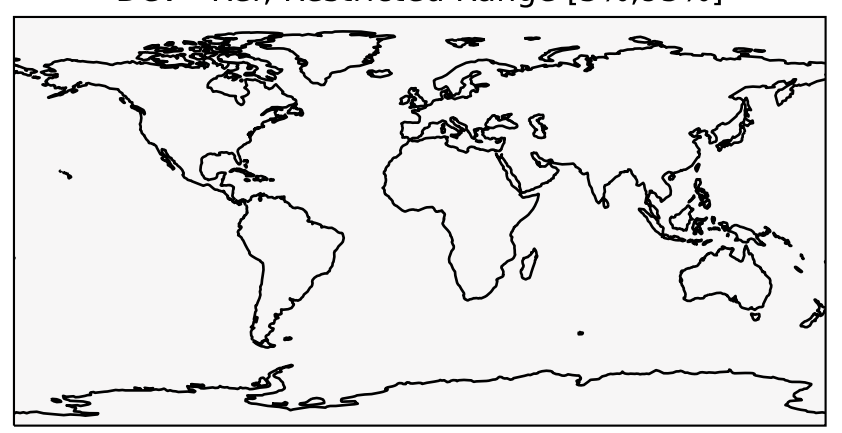


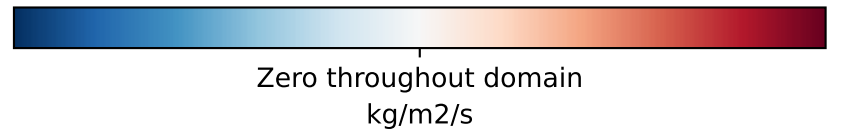
Difference
Dev - Ref, Dynamic Range



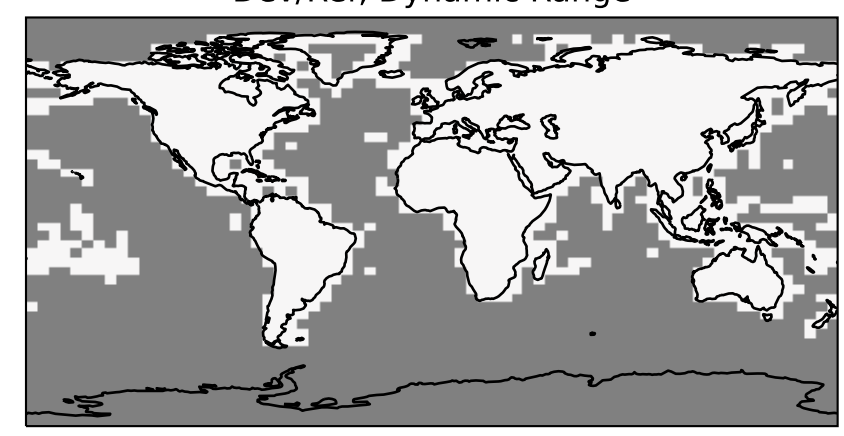


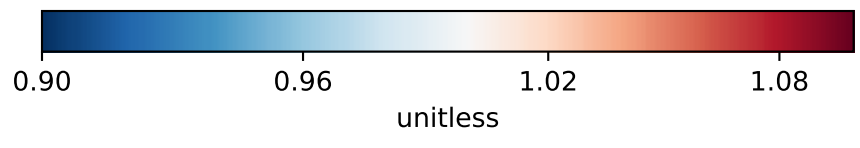
Difference
Dev - Ref, Restricted Range [5%,95%]



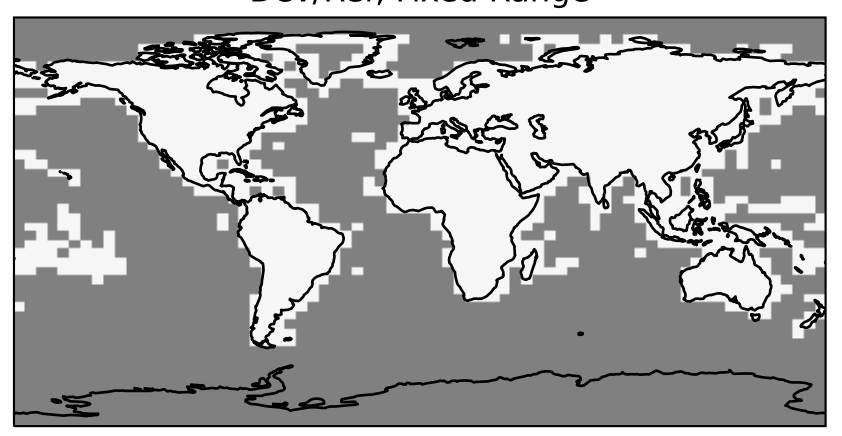


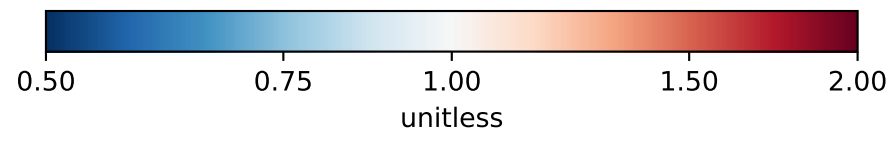
Ratio
Dev/Ref, Dynamic Range





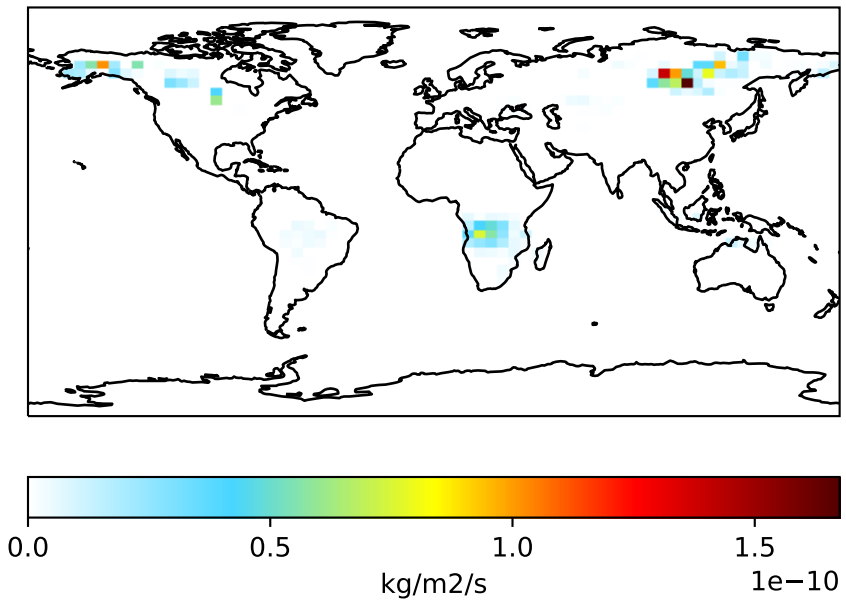
Ratio
Dev/Ref, Fixed Range



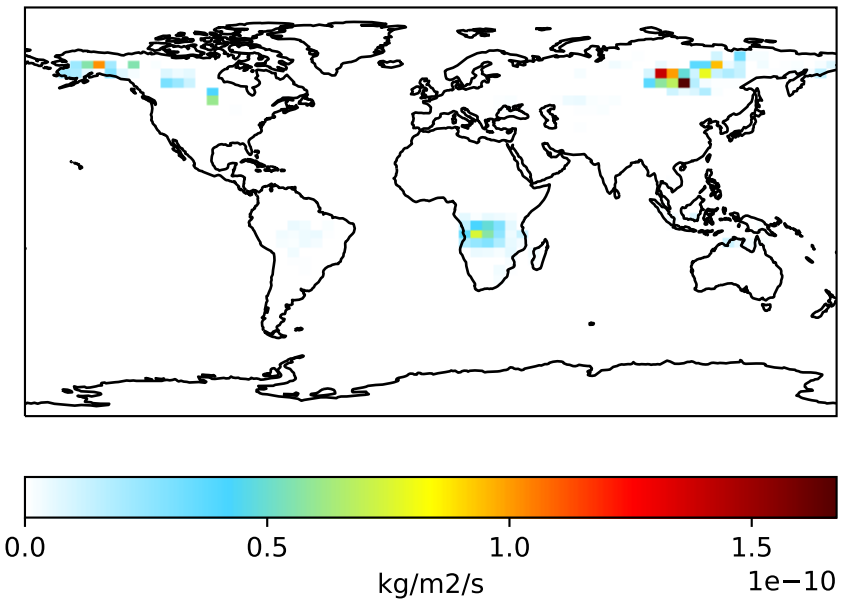


EmisPRPE_BioBurn

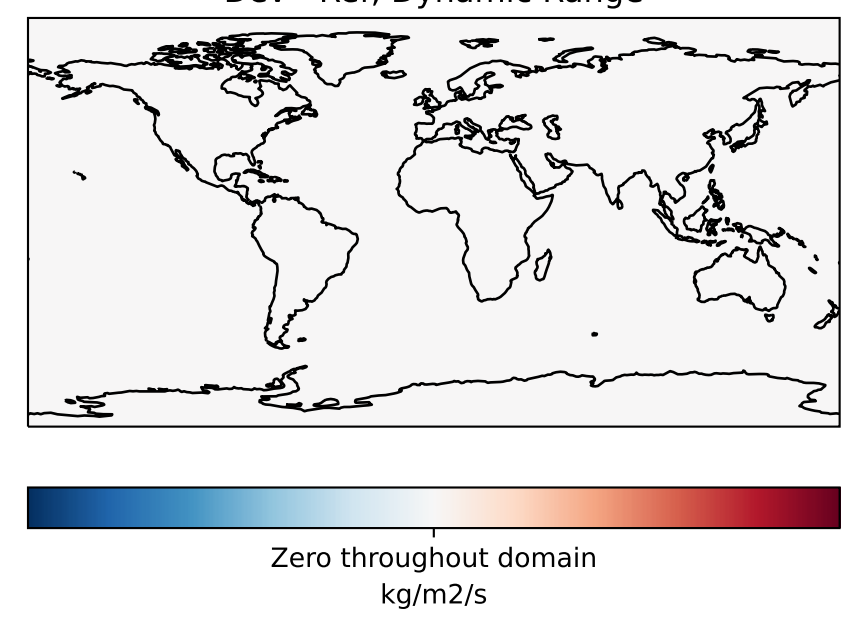
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



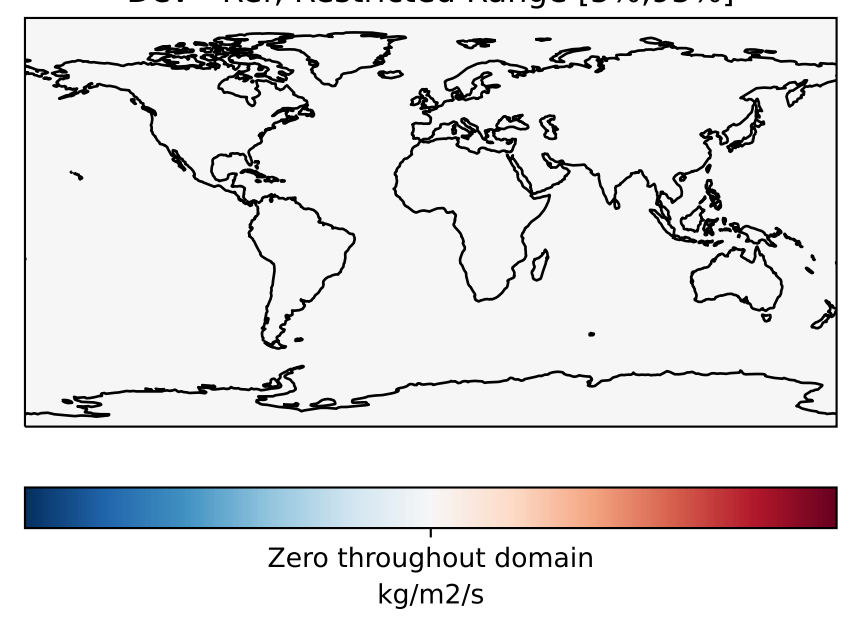
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



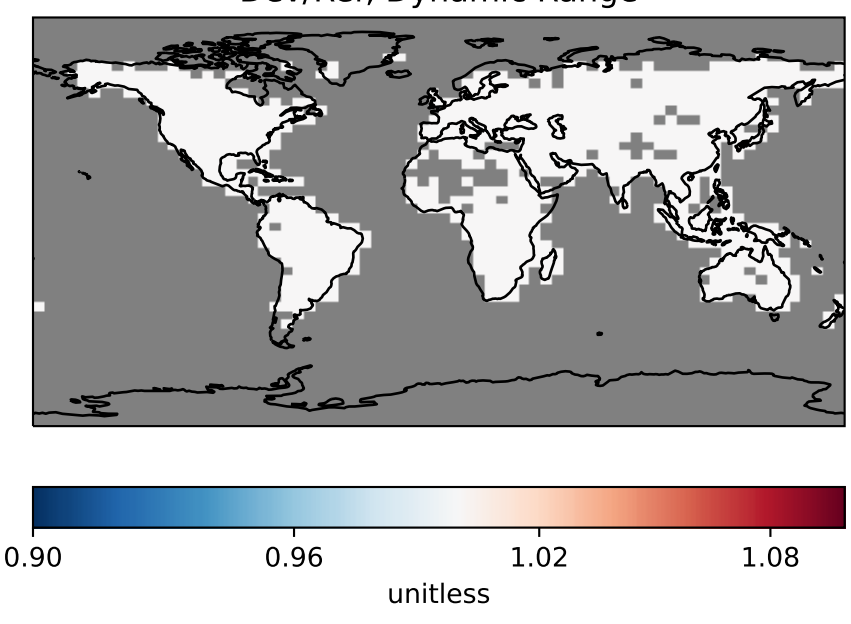
Difference
Dev - Ref, Dynamic Range



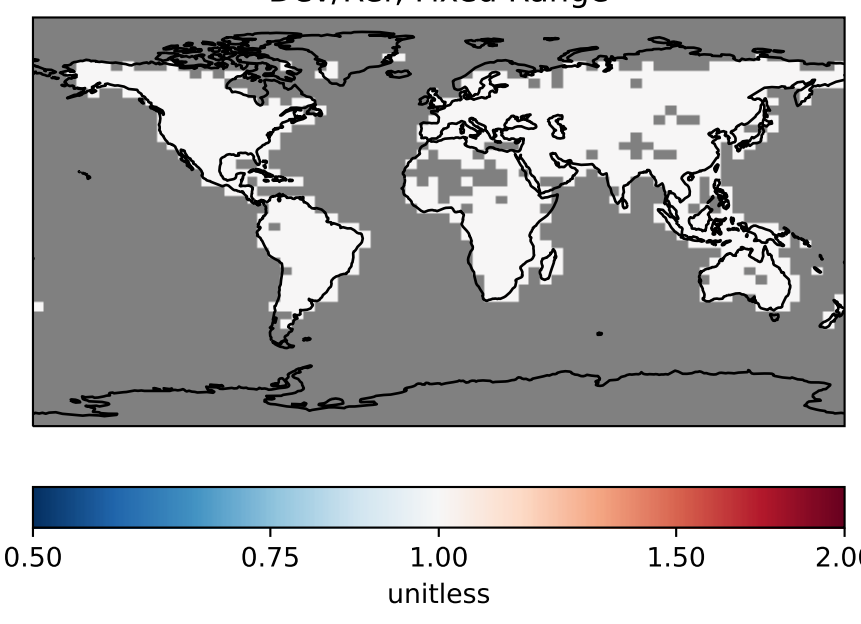
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

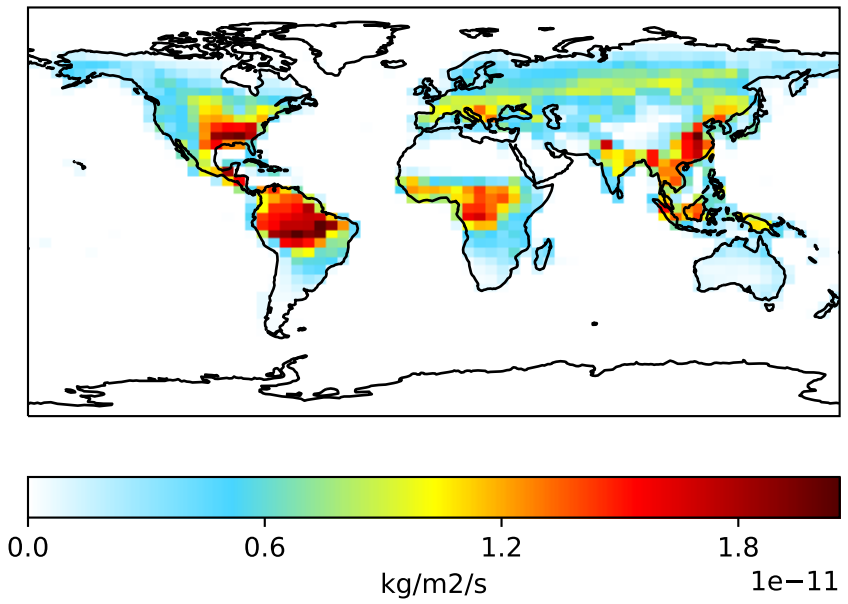


Ratio
Dev/Ref, Fixed Range

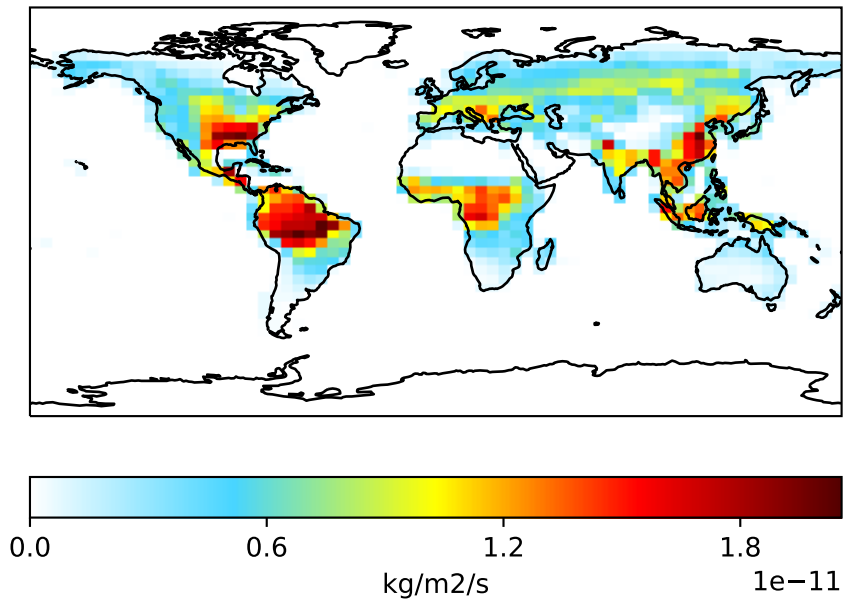


EmisPRPE_Biogenic

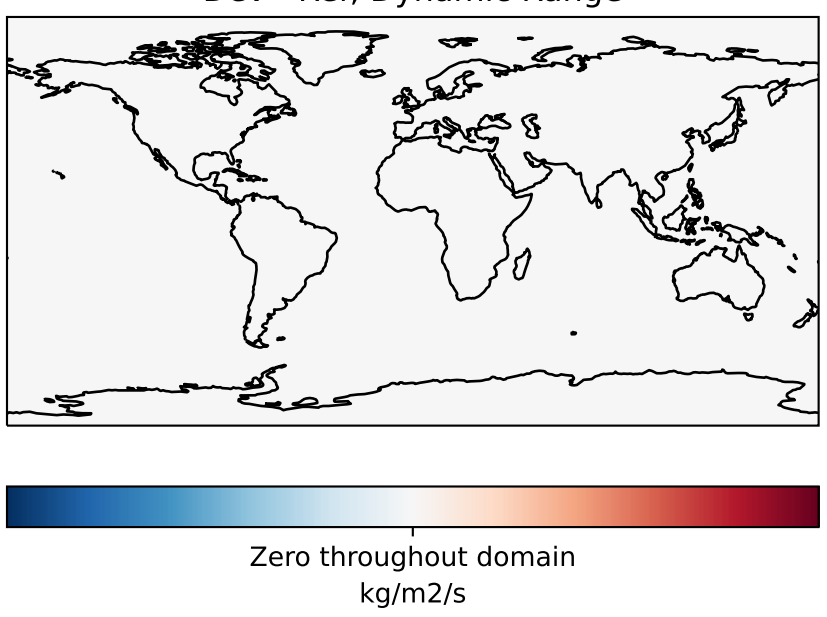
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



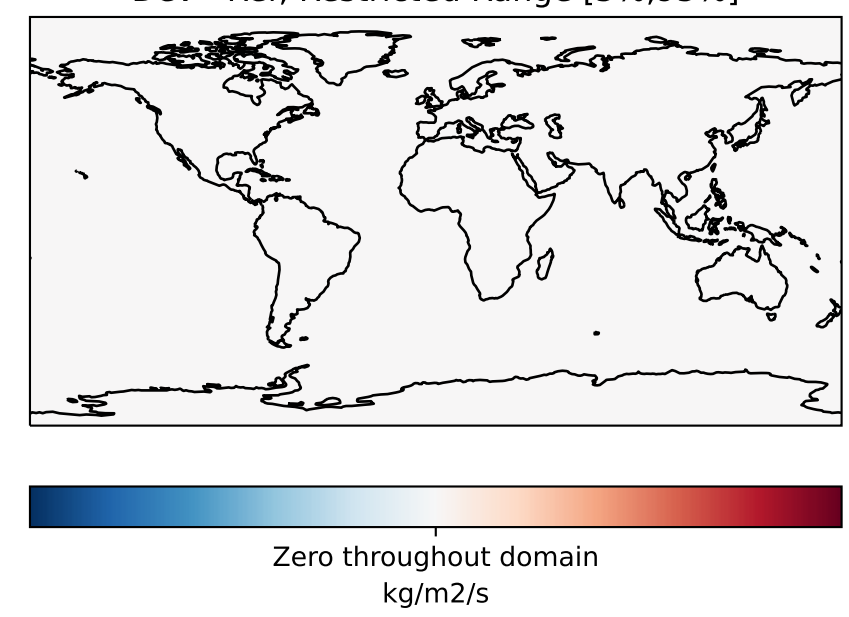
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



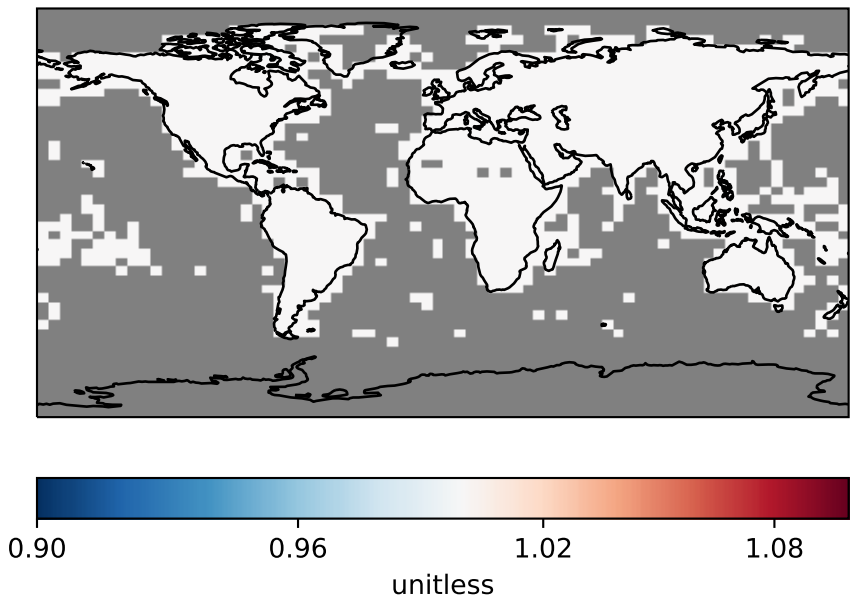
Difference
Dev - Ref, Dynamic Range



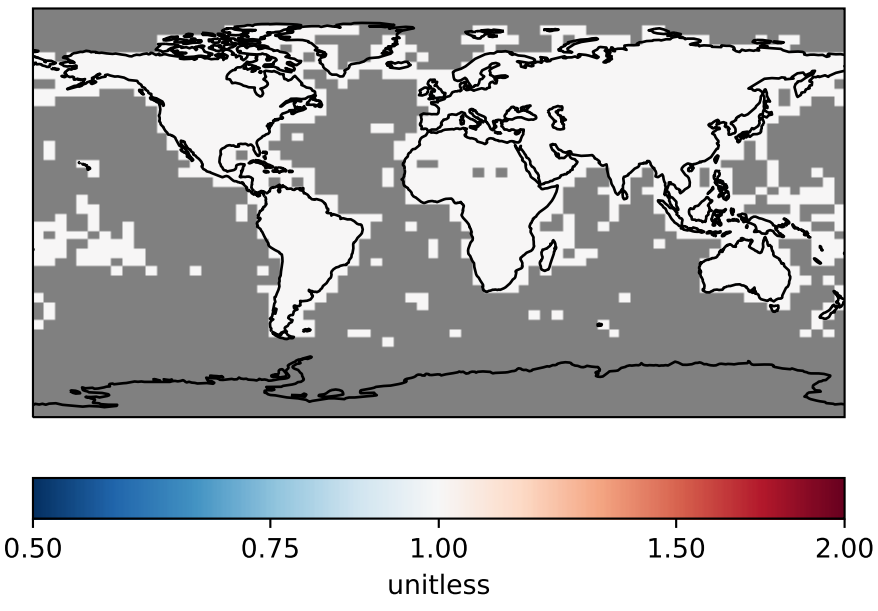
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

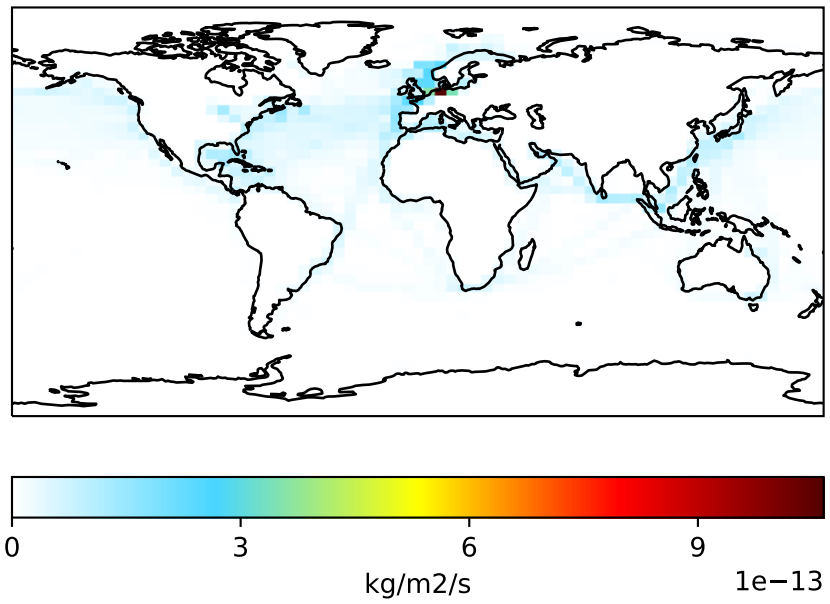


Ratio
Dev/Ref, Fixed Range

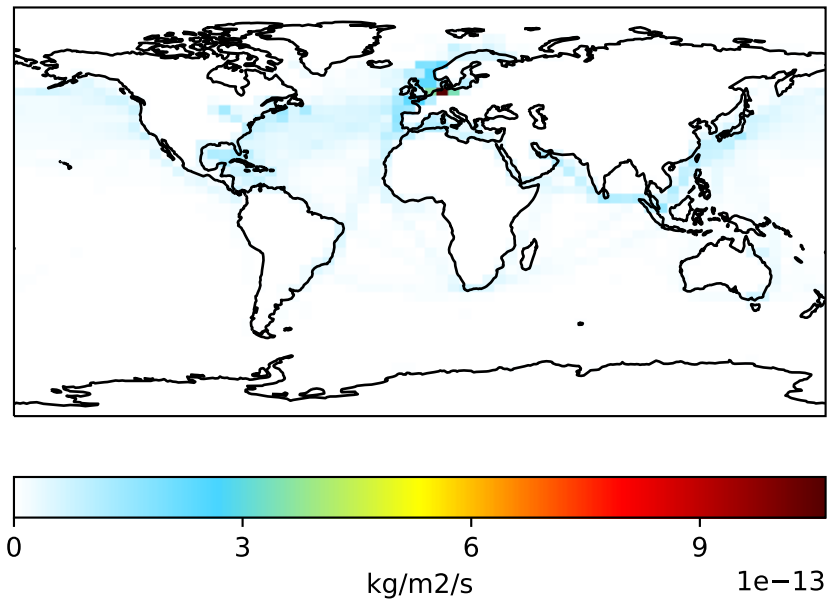


EmisPRPE_Ship

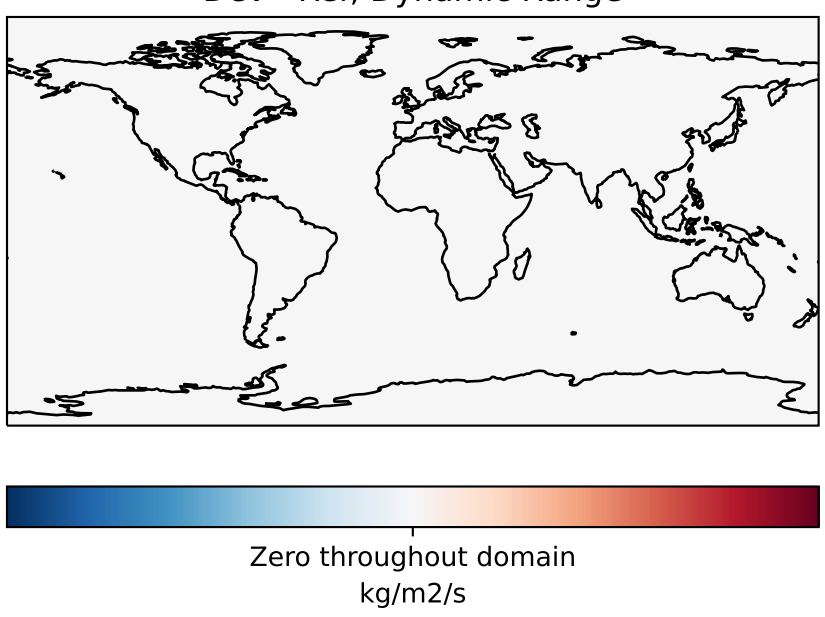
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



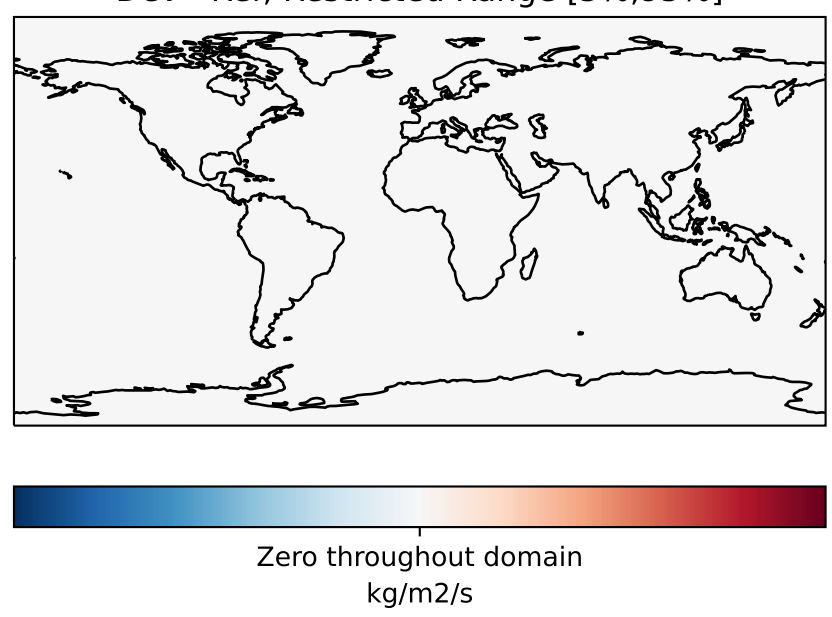
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



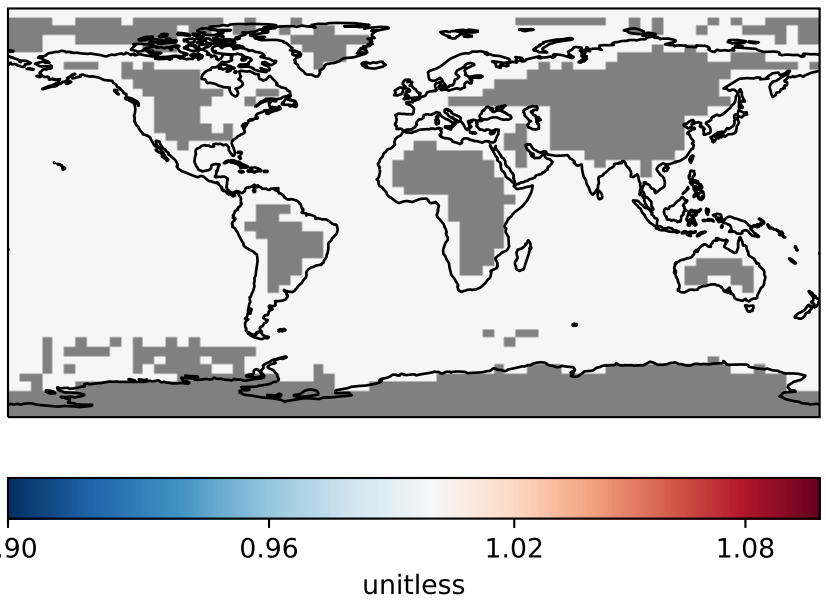
Difference
Dev - Ref, Dynamic Range



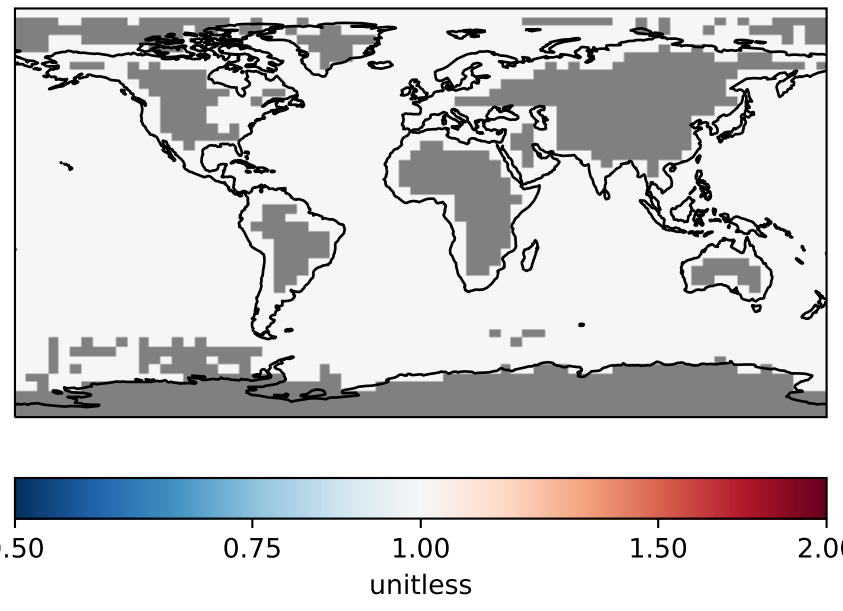
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

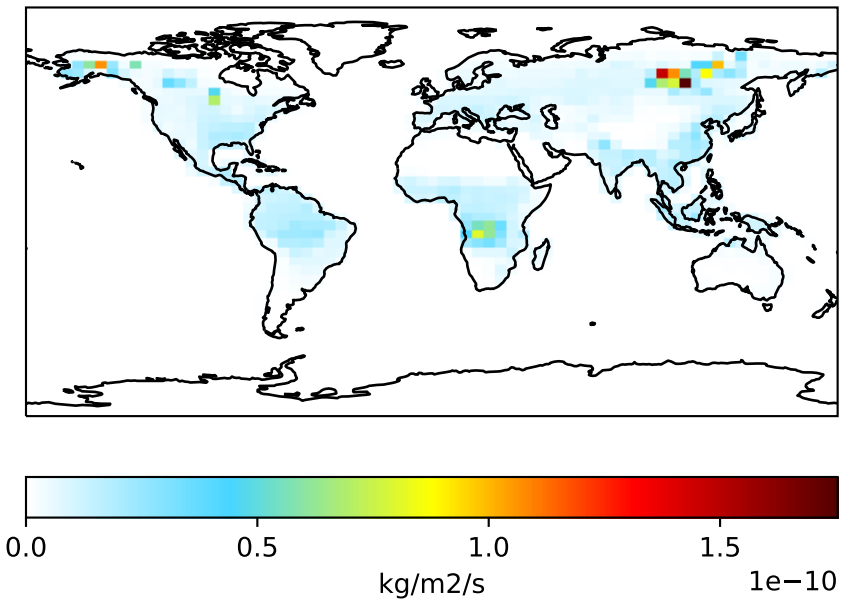


Ratio
Dev/Ref, Fixed Range

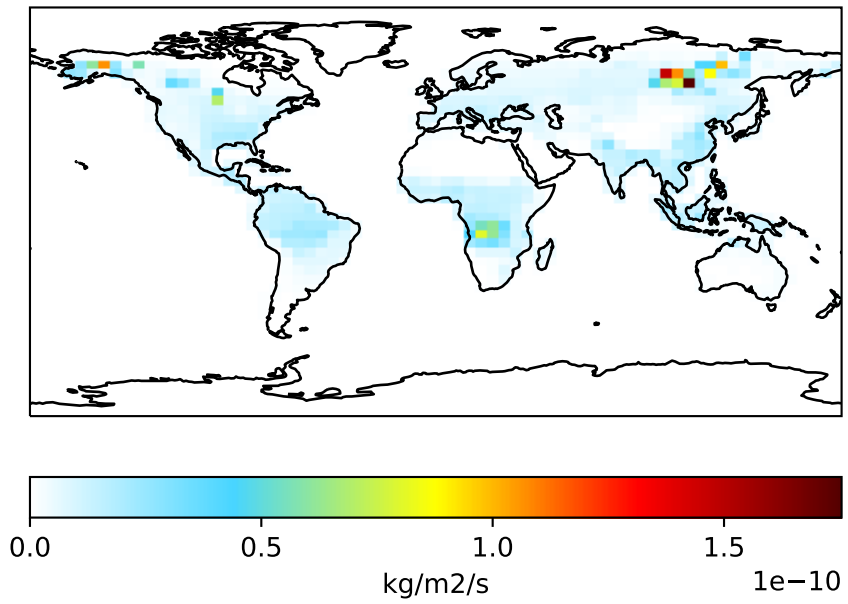


EmisPRPE_Total

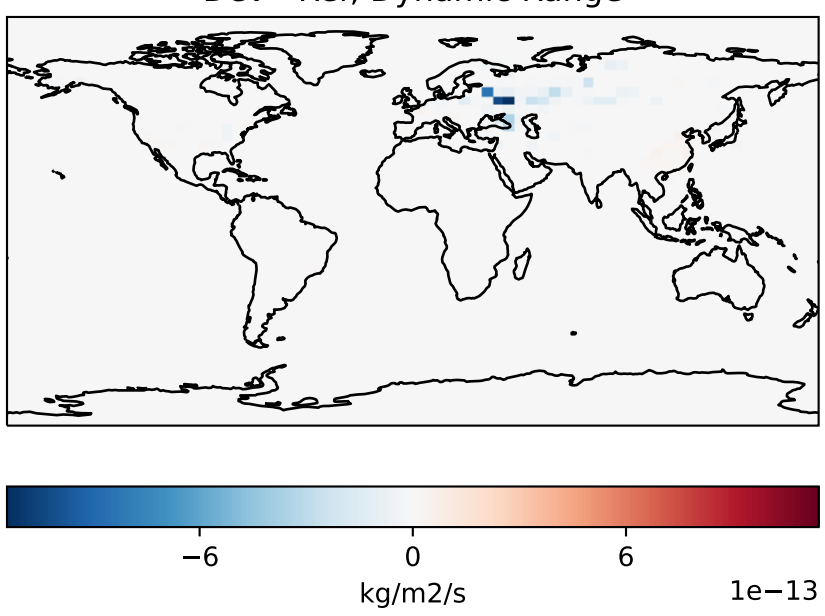
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



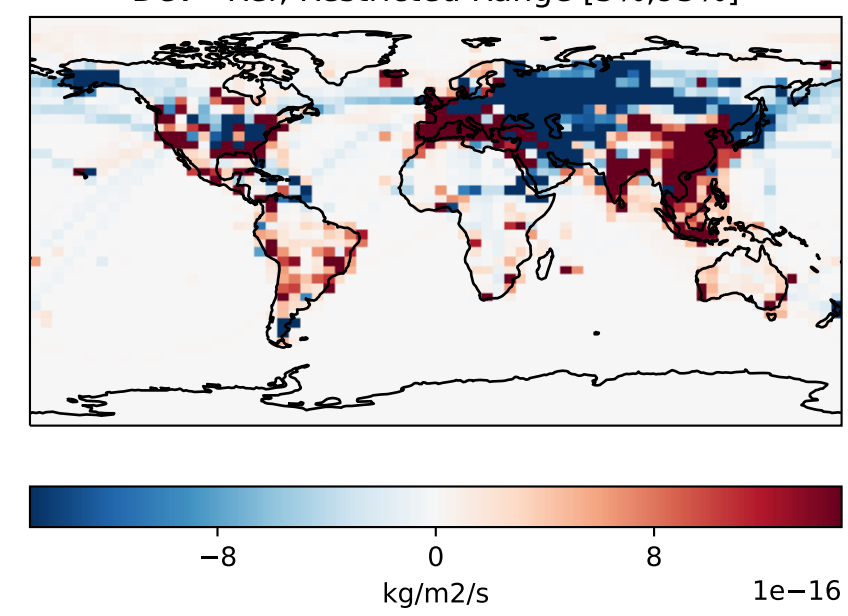
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



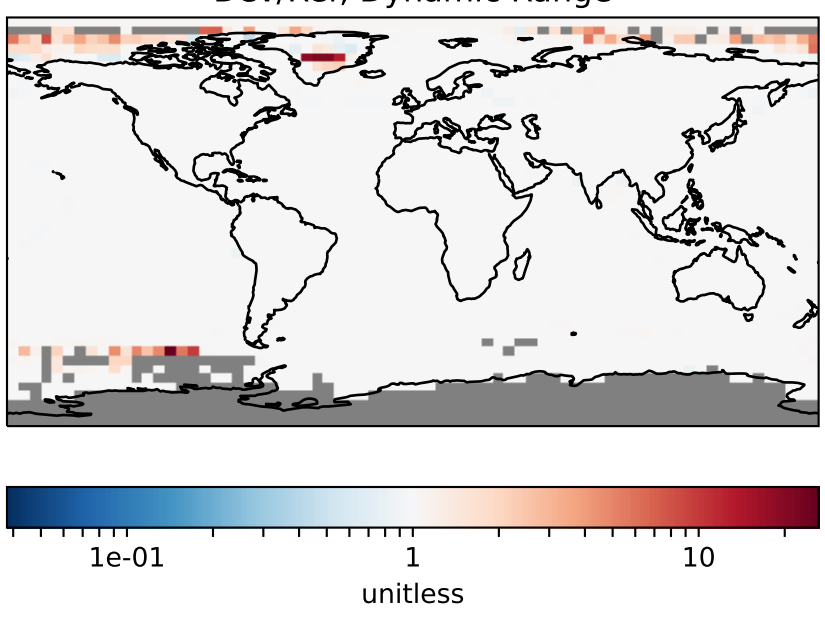
Difference
Dev - Ref, Dynamic Range



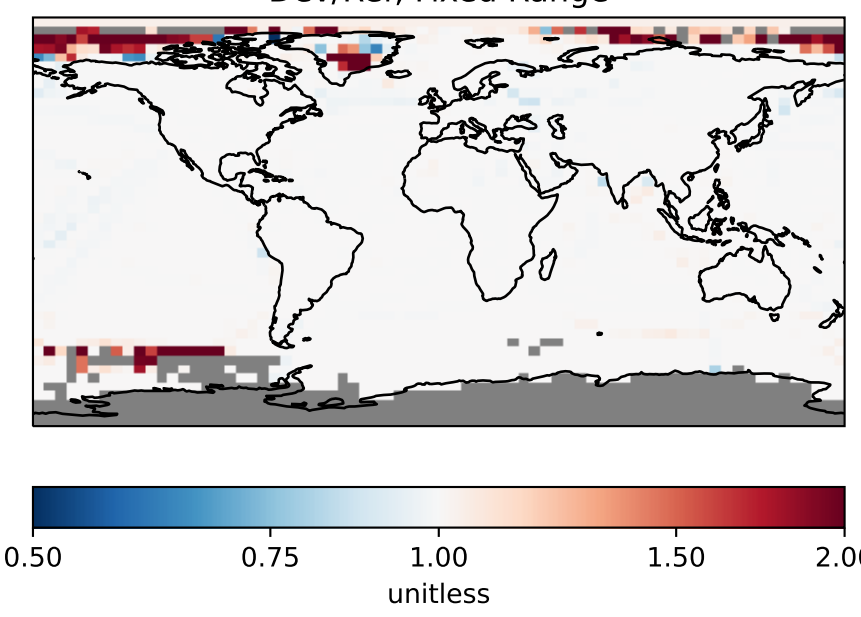
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

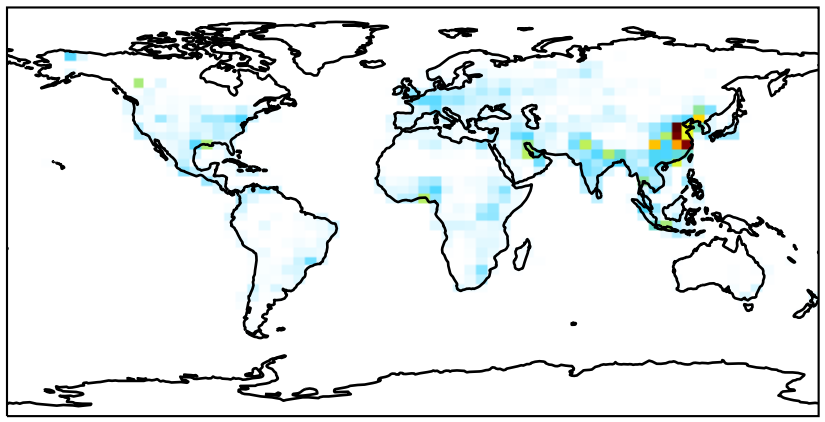


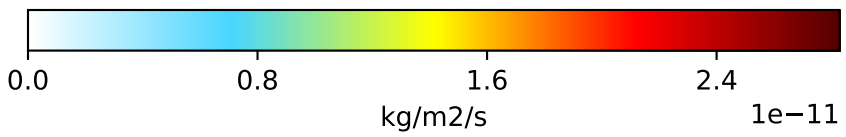
Ratio
Dev/Ref, Fixed Range



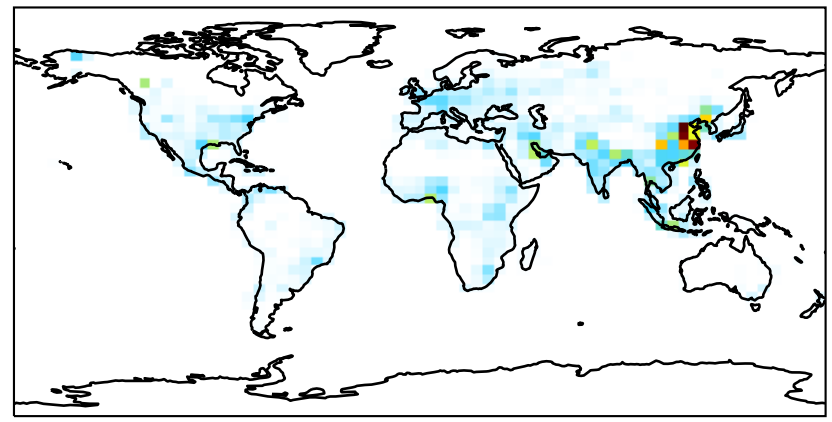
EmisTOLU_Anthro

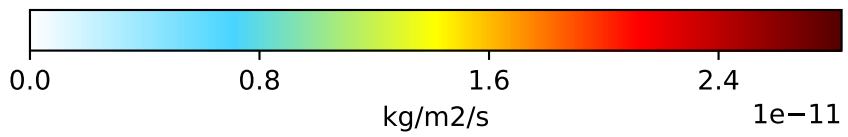
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



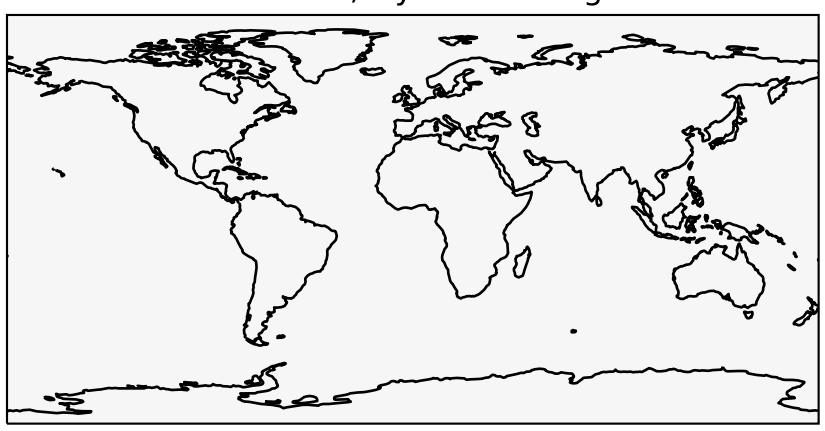


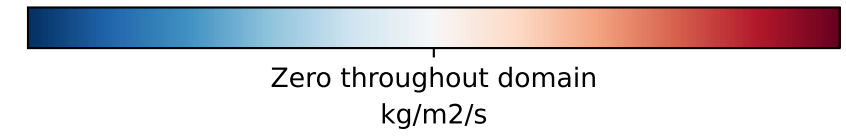
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



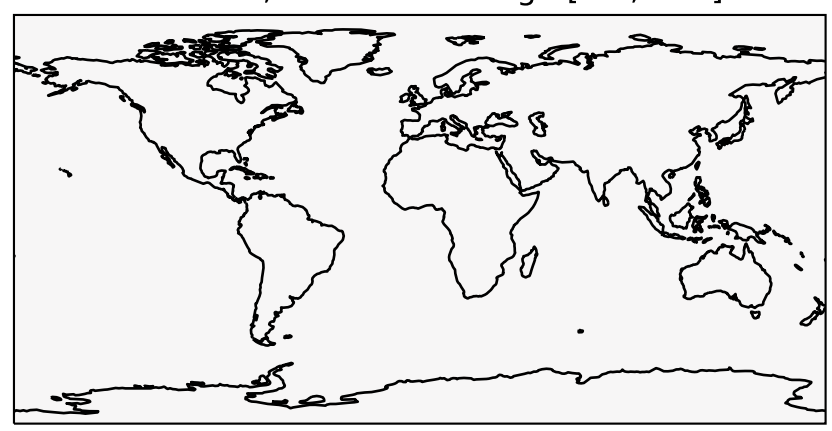


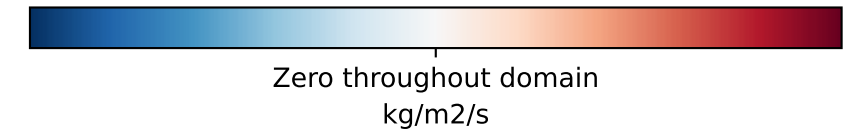
Difference
Dev - Ref, Dynamic Range



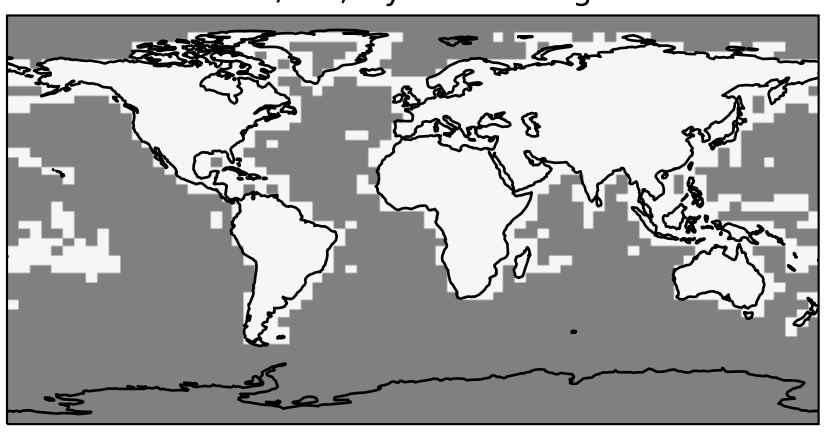


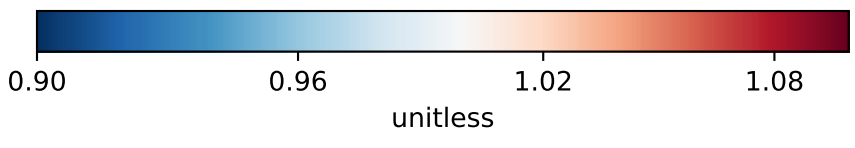
Difference
Dev - Ref, Restricted Range [5%,95%]



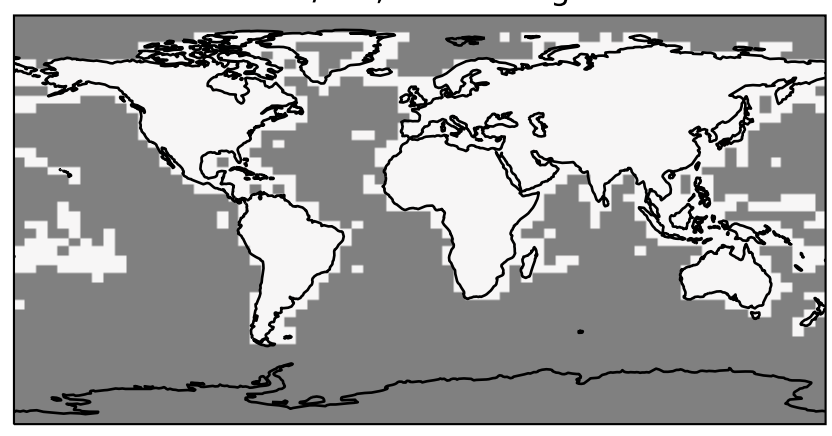


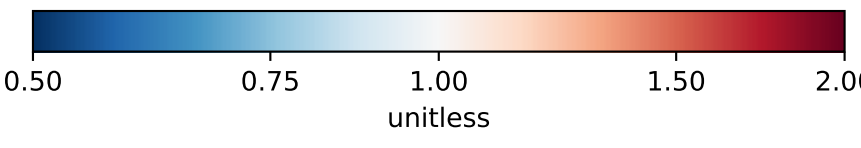
Ratio
Dev/Ref, Dynamic Range





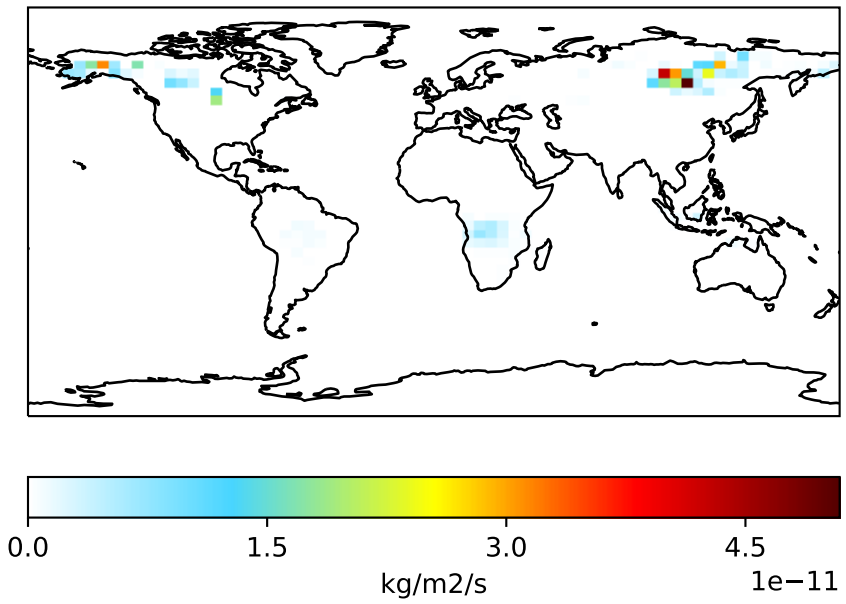
Ratio
Dev/Ref, Fixed Range



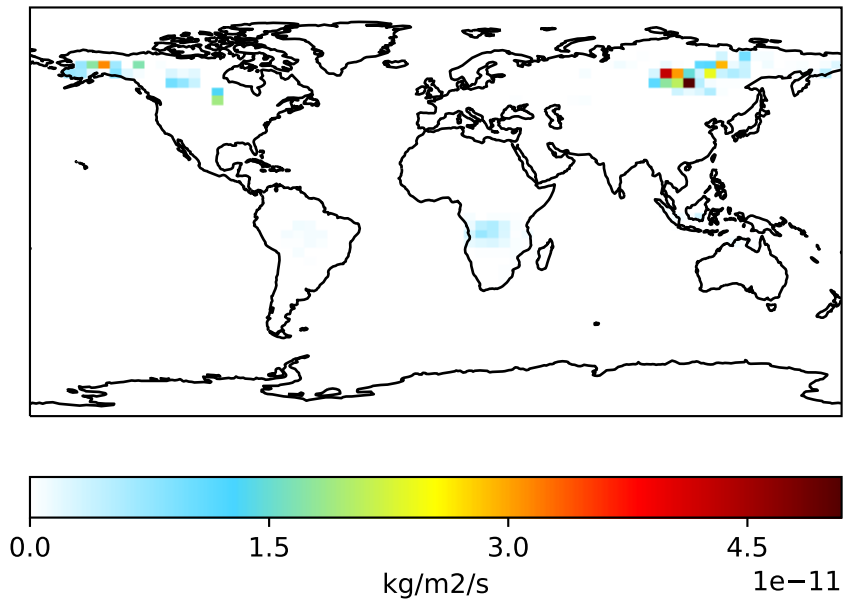


EmisTOLU_BioBurn

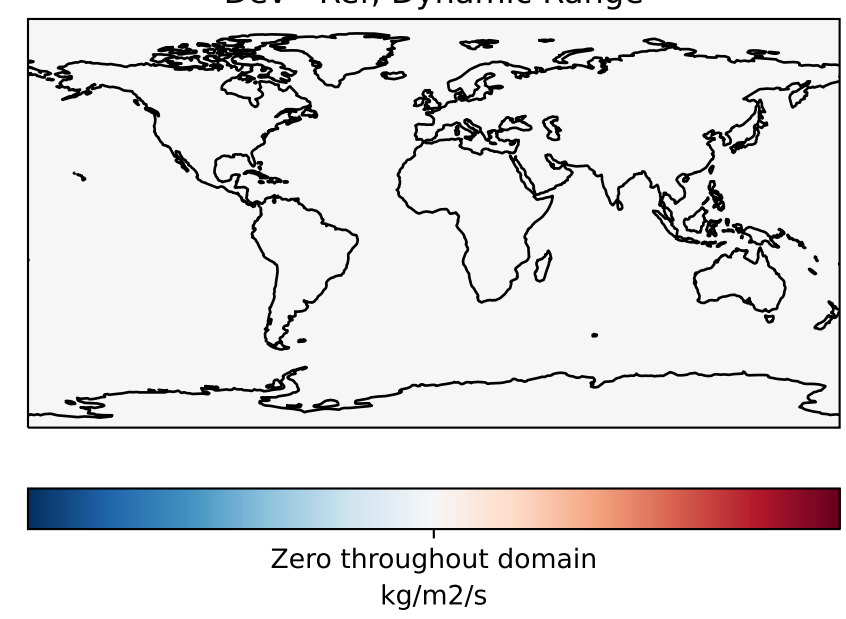
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



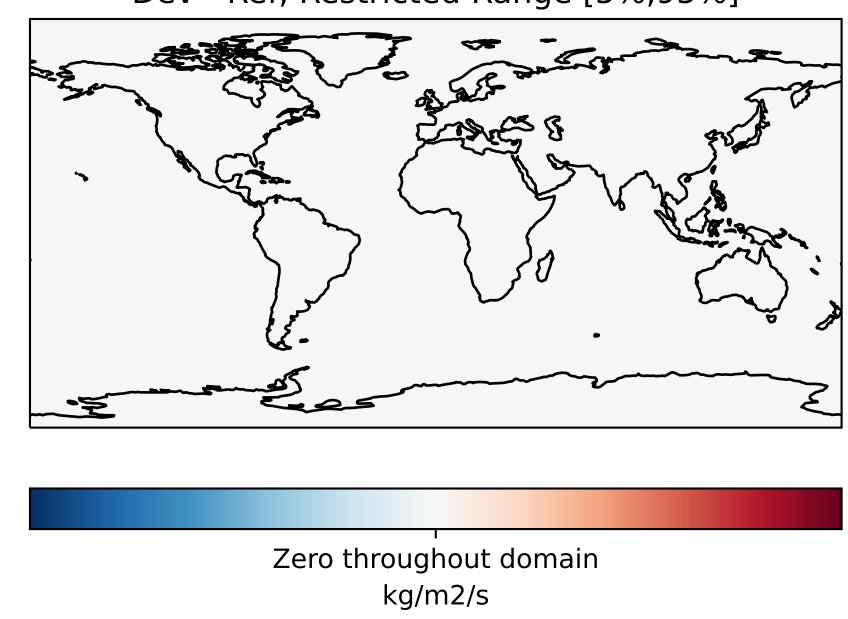
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



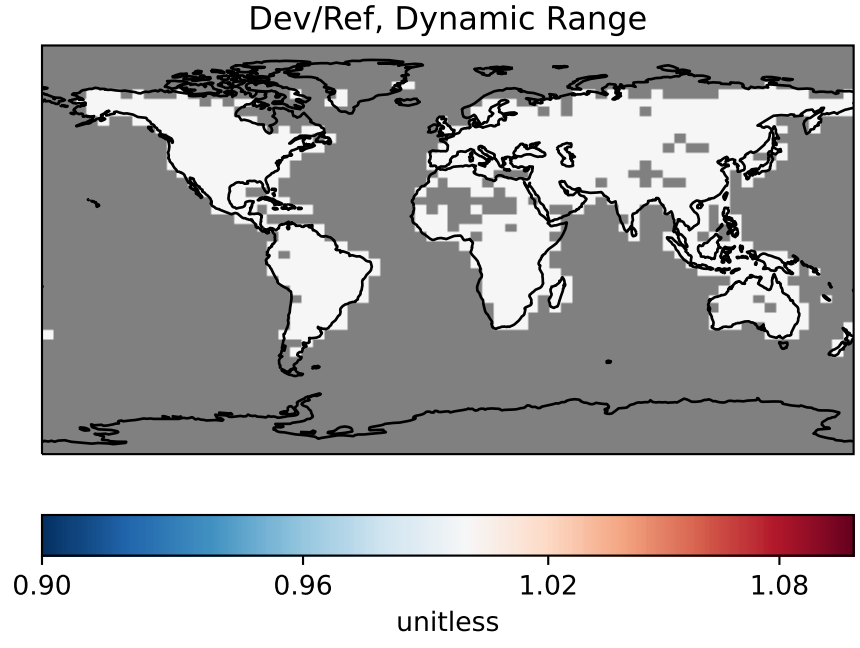
Difference
Dev - Ref, Dynamic Range



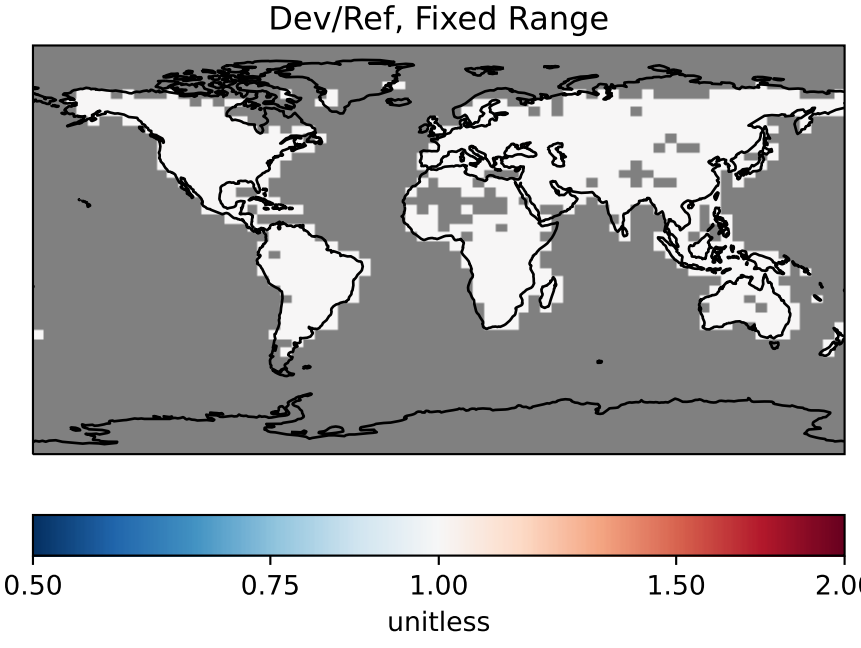
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

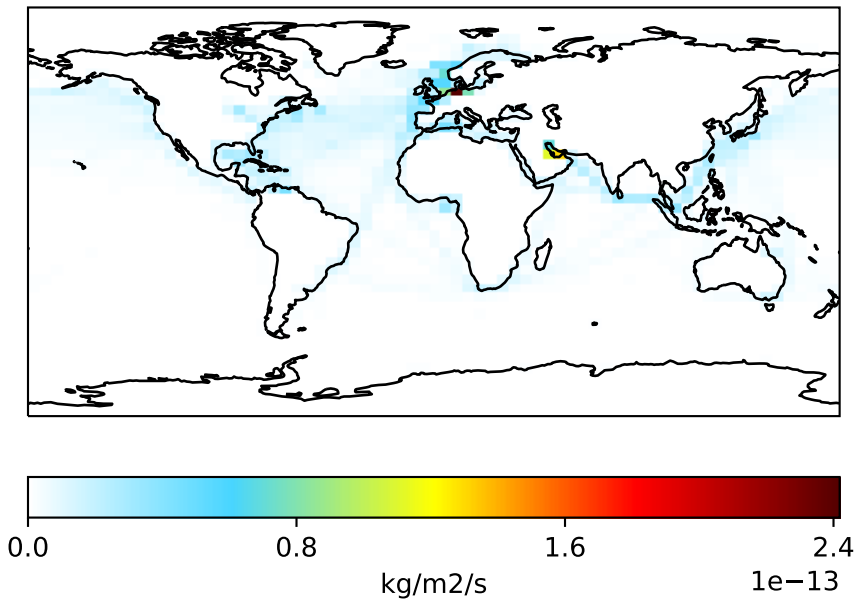


Ratio
Dev/Ref, Fixed Range

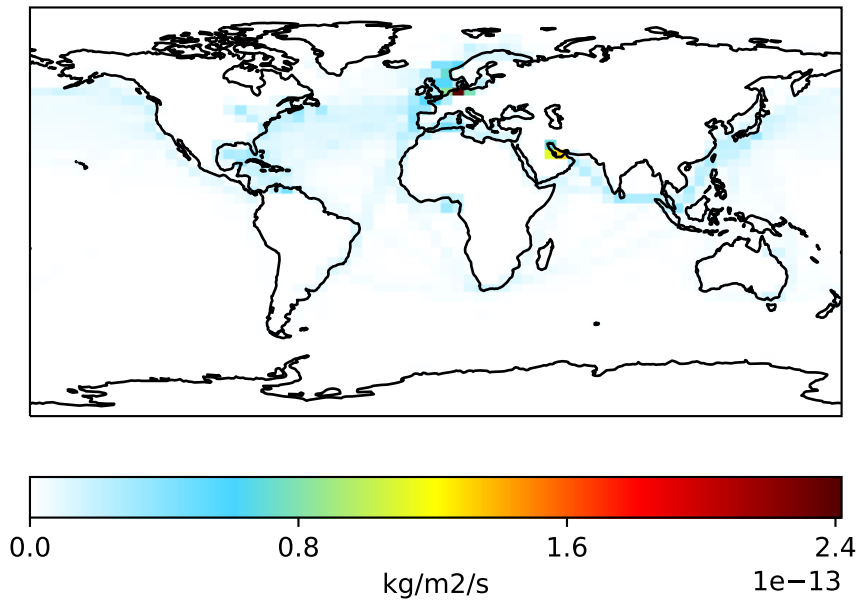


EmisTOLU_Ship

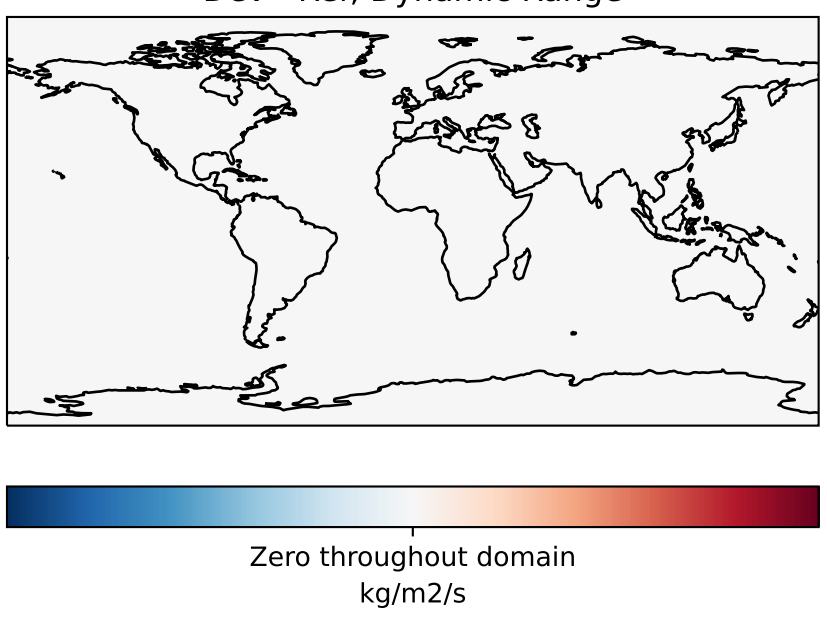
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



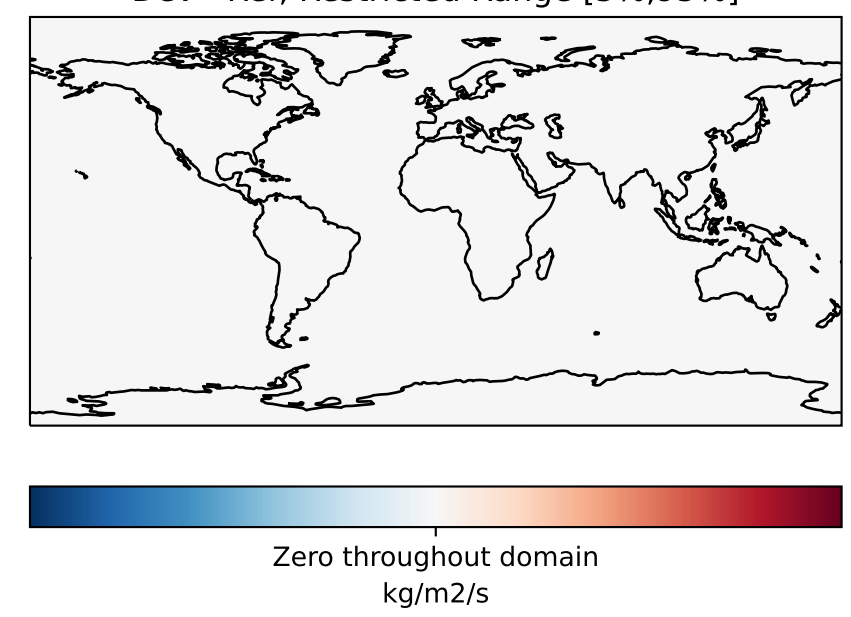
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



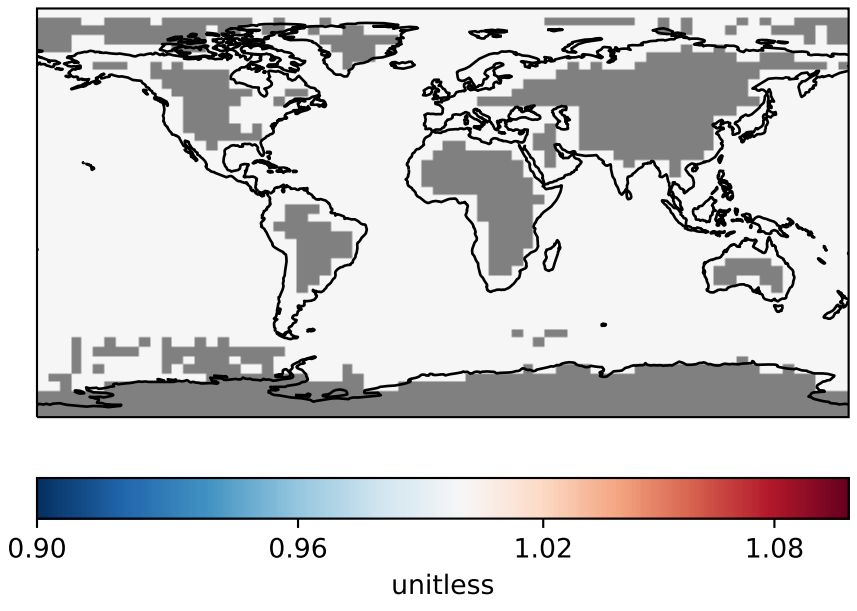
Difference
Dev - Ref, Dynamic Range



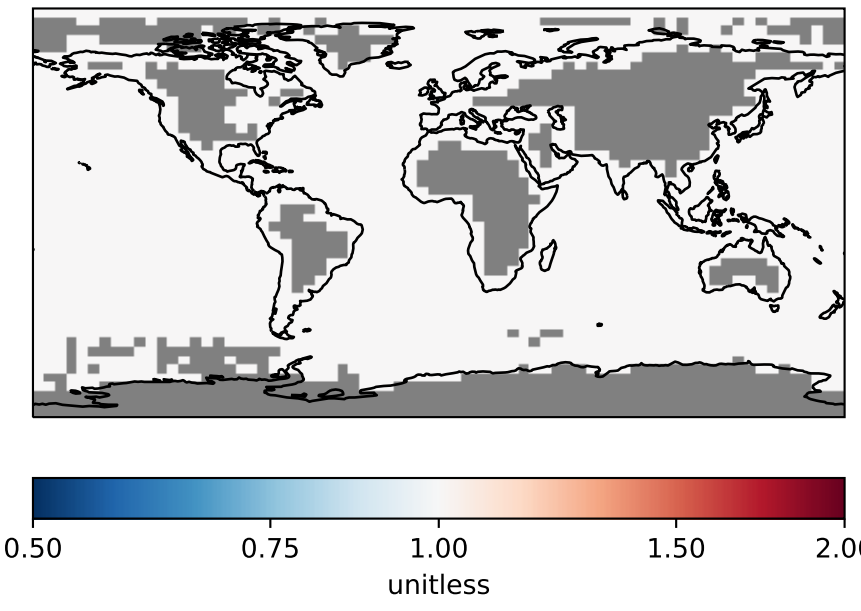
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

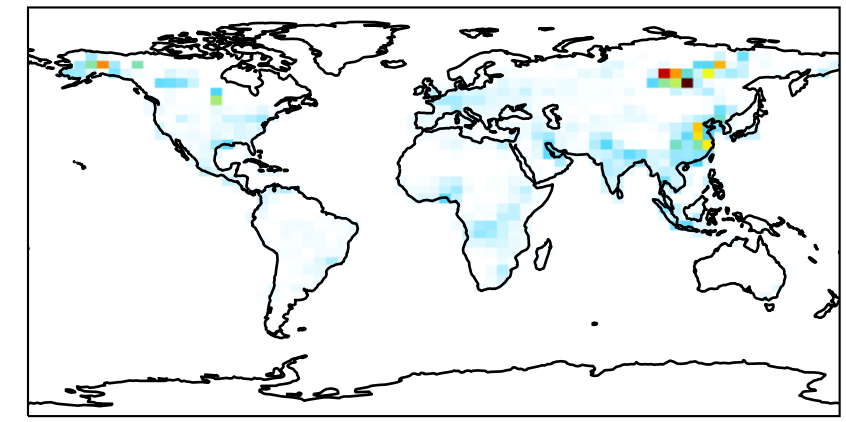


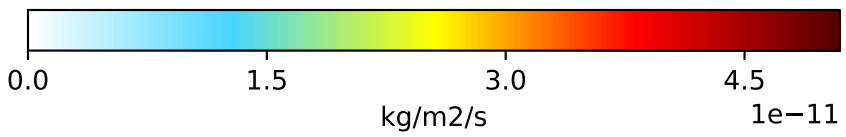
Ratio
Dev/Ref, Fixed Range



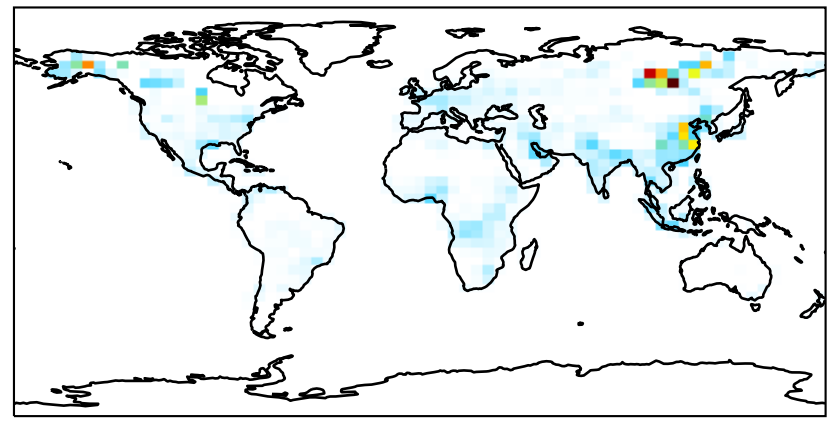
EmisTOLU_Total

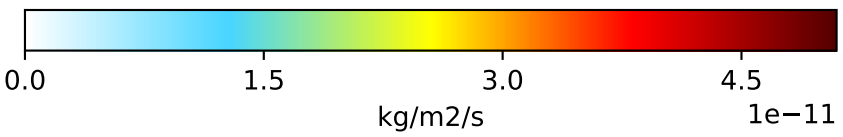
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



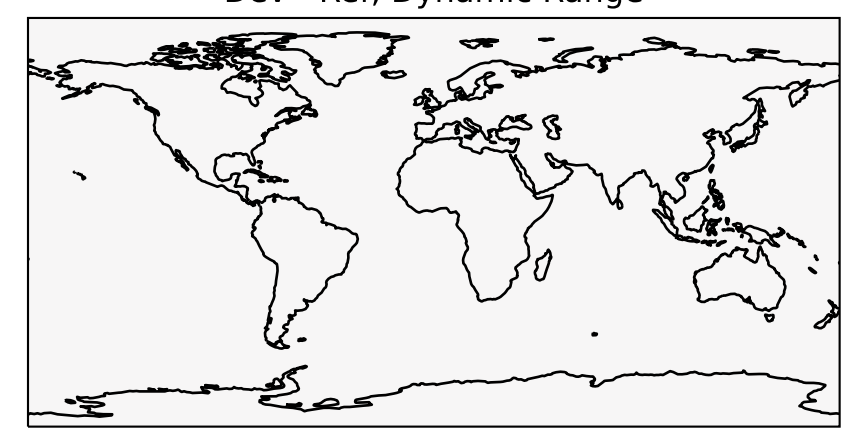


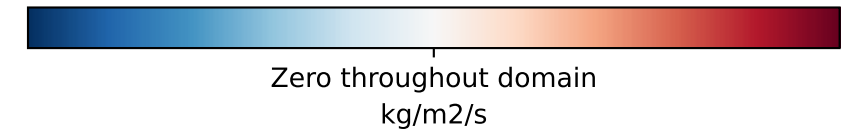
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



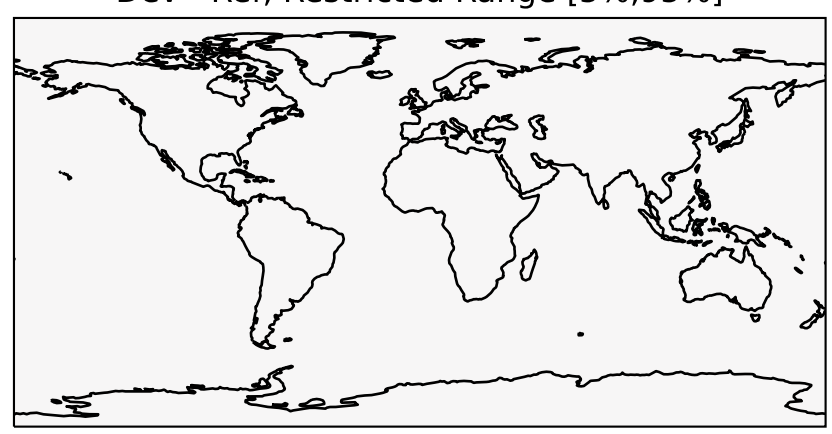


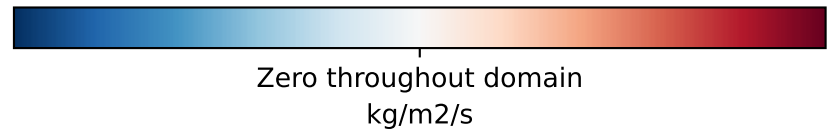
Difference
Dev - Ref, Dynamic Range



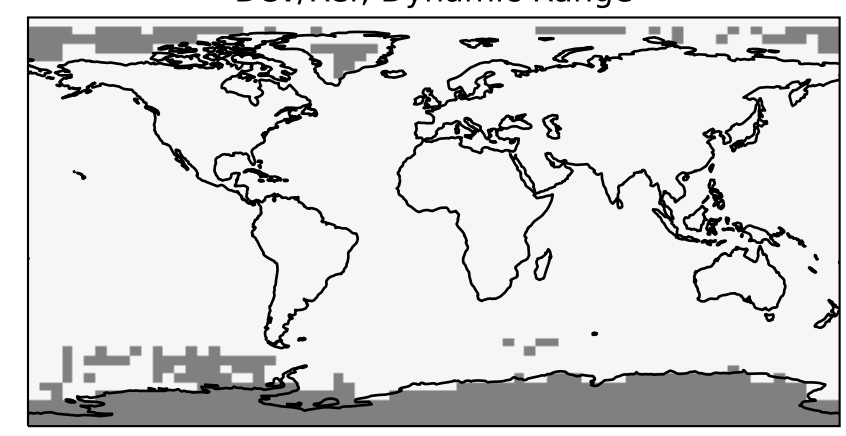


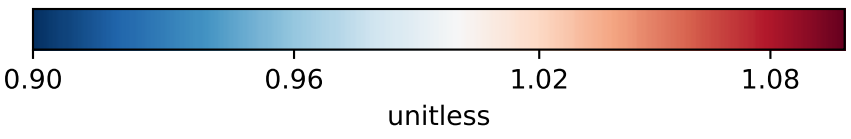
Difference
Dev - Ref, Restricted Range [5%,95%]



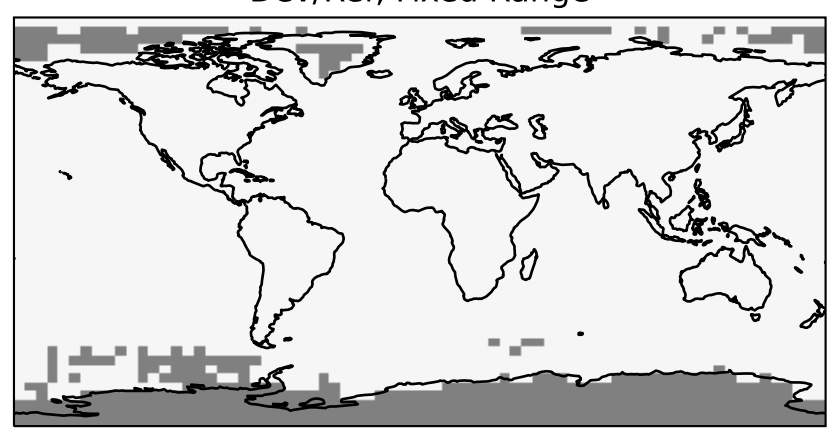


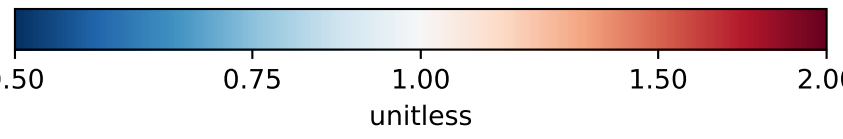
Ratio
Dev/Ref, Dynamic Range





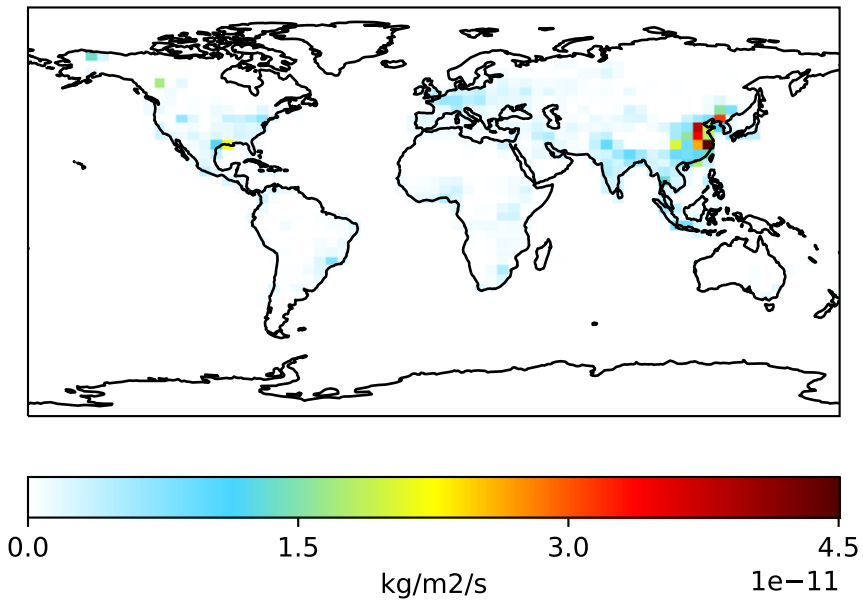
Ratio
Dev/Ref, Fixed Range



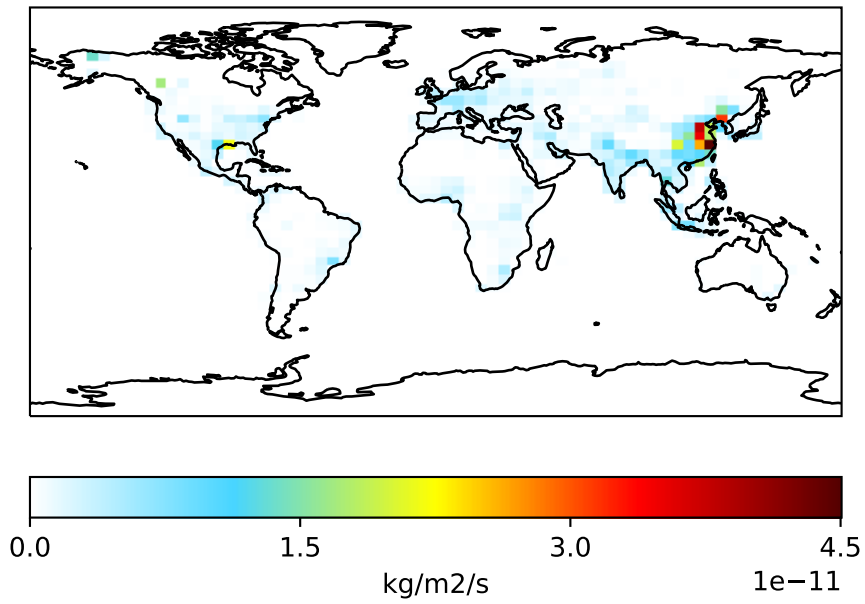


EmisXYLE_Anthro

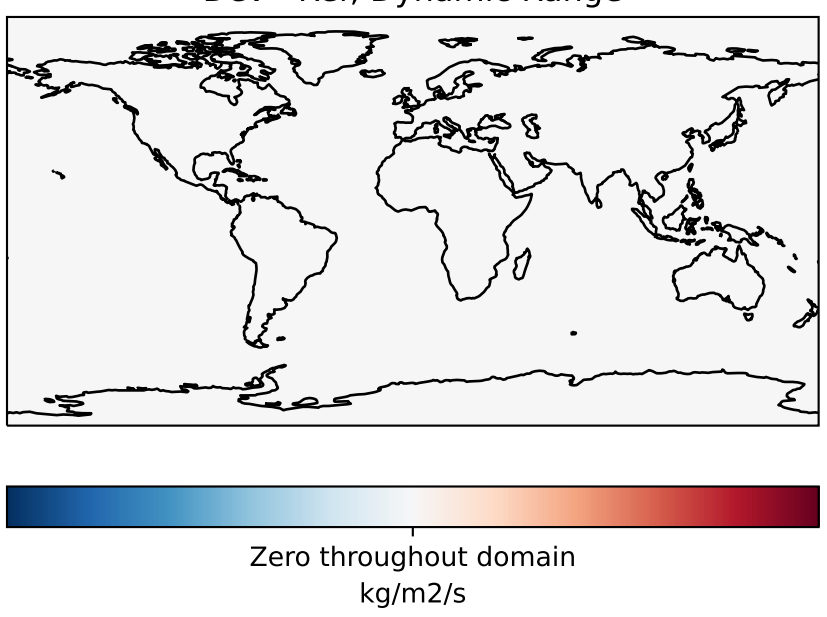
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



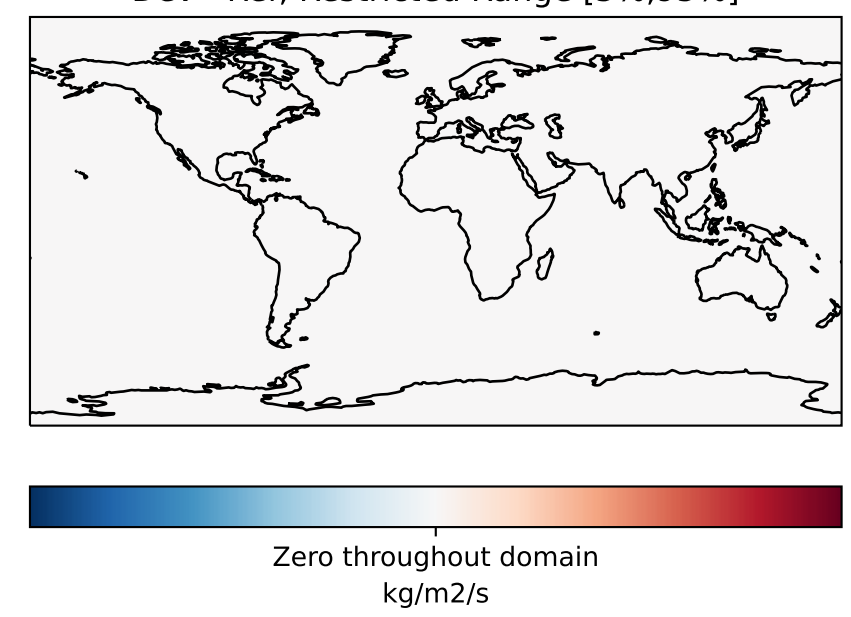
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



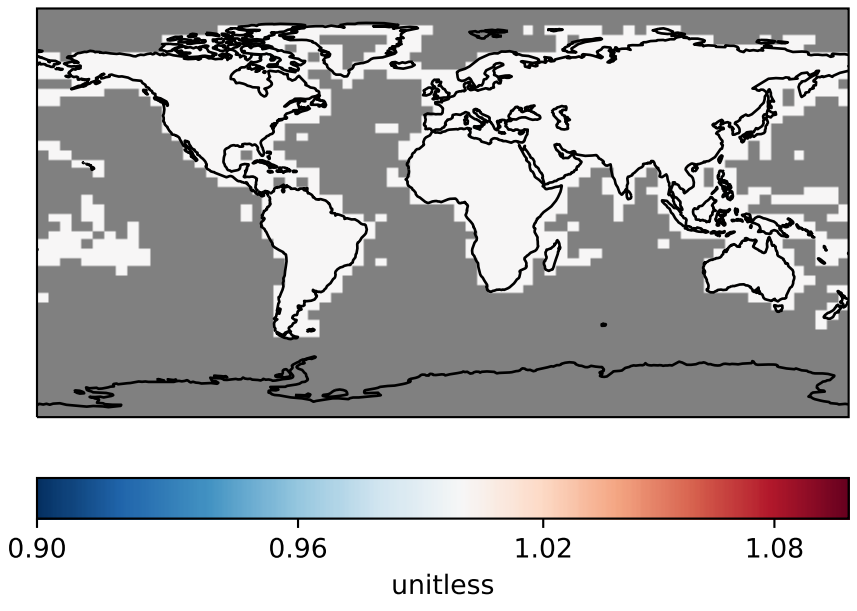
Difference
Dev - Ref, Dynamic Range



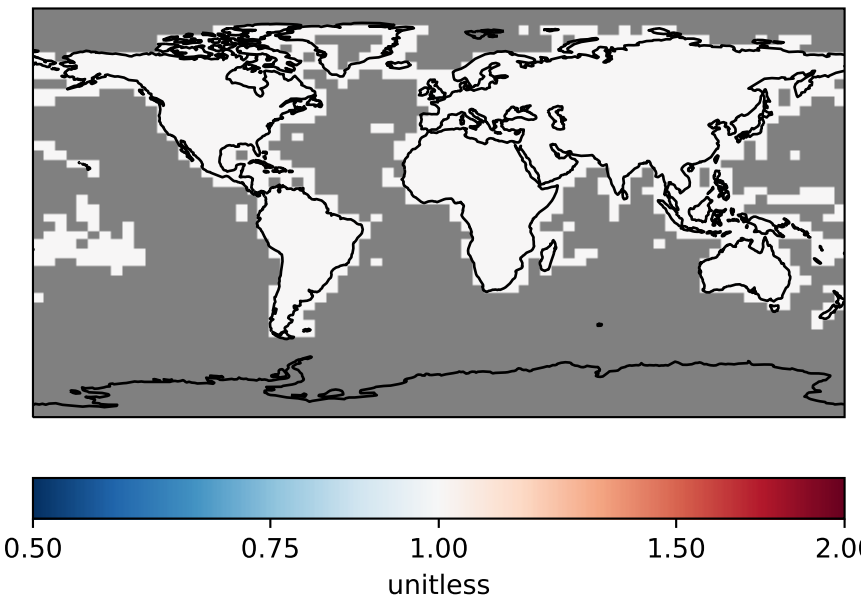
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

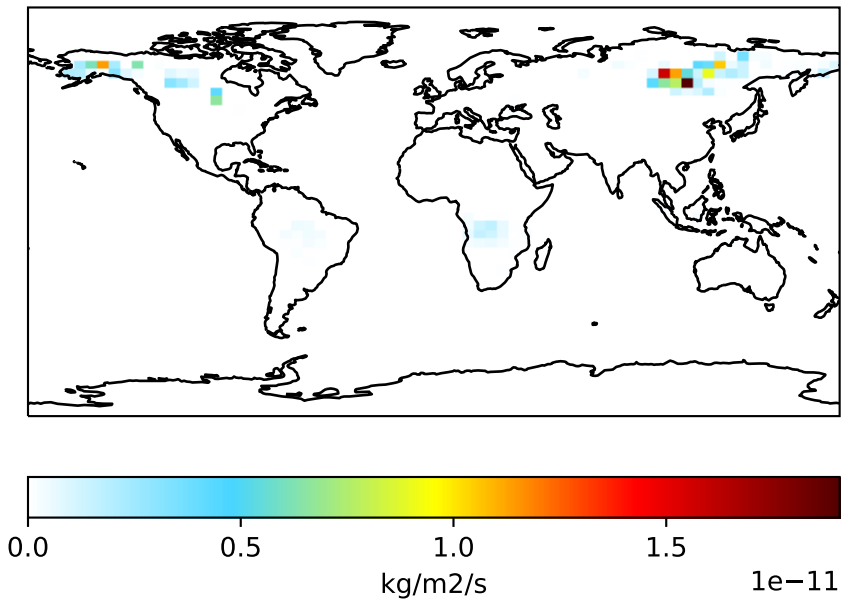


Ratio
Dev/Ref, Fixed Range

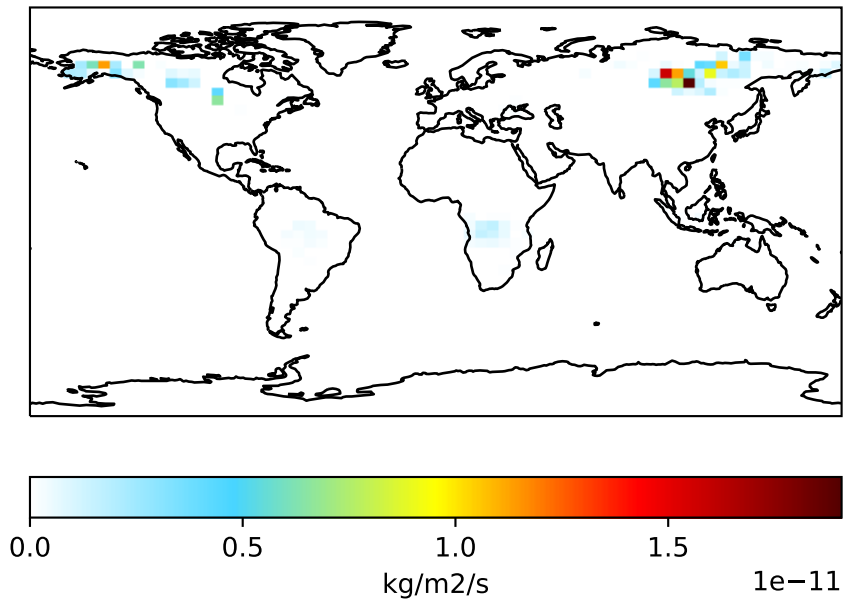


EmisXYLE_BioBurn

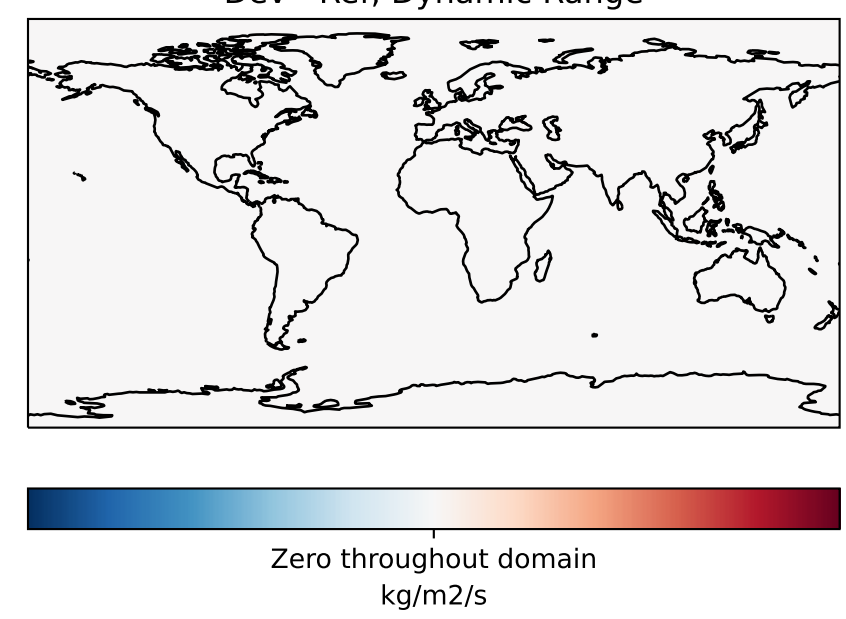
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



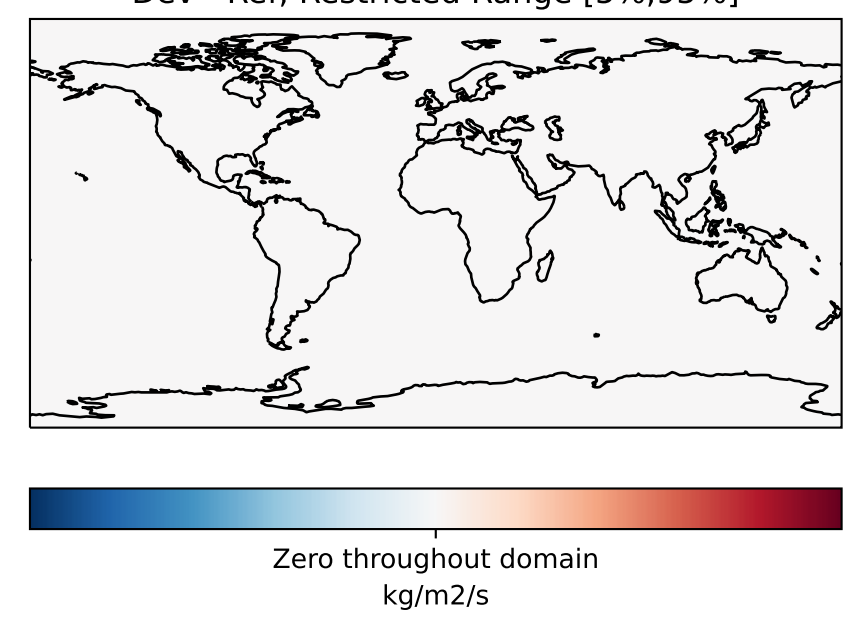
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



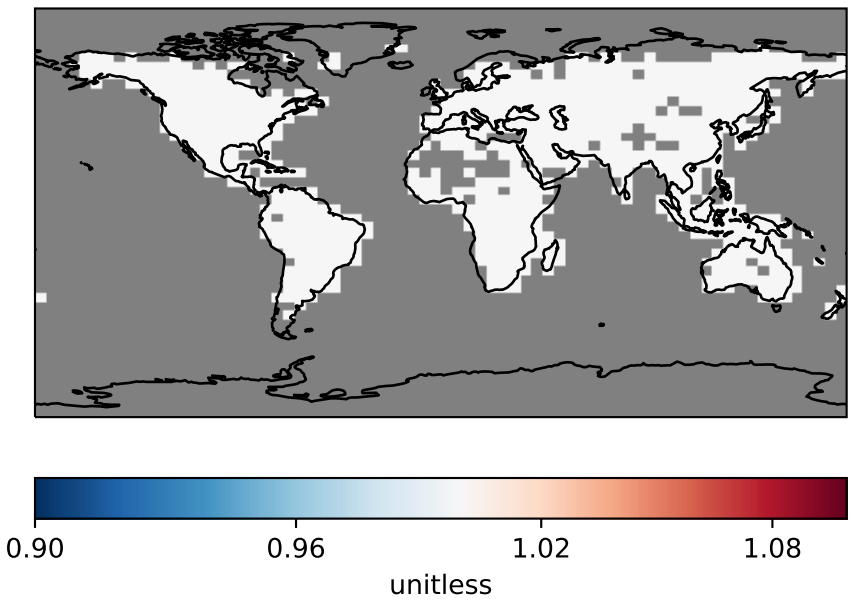
Difference
Dev - Ref, Dynamic Range



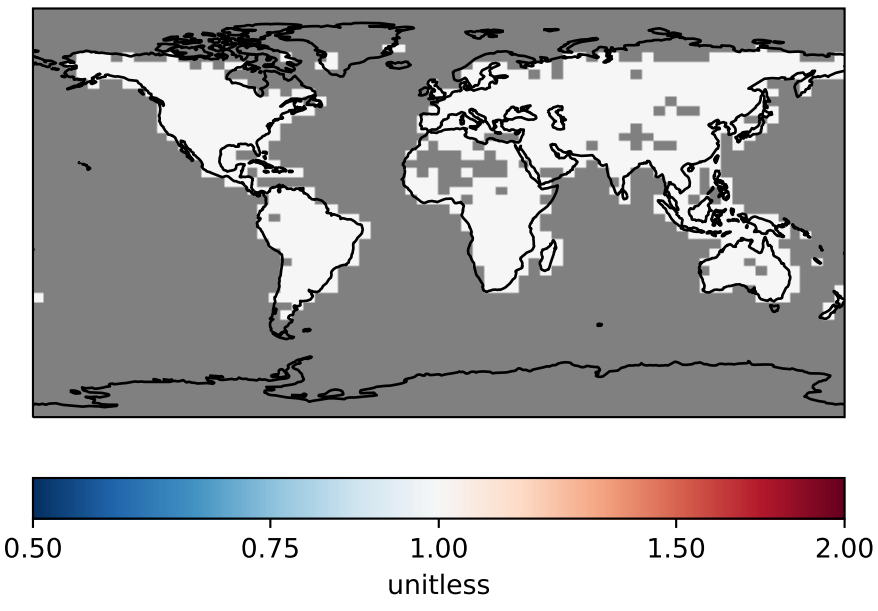
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

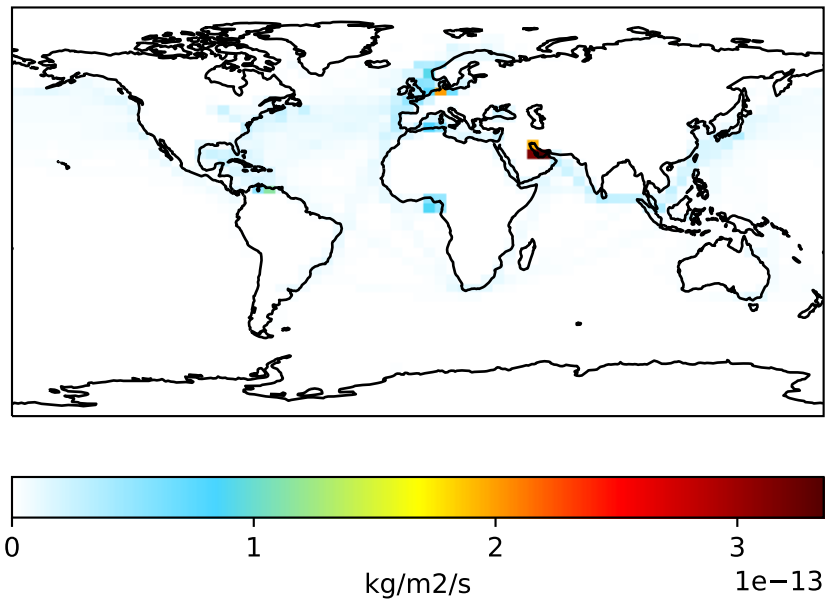


Ratio
Dev/Ref, Fixed Range

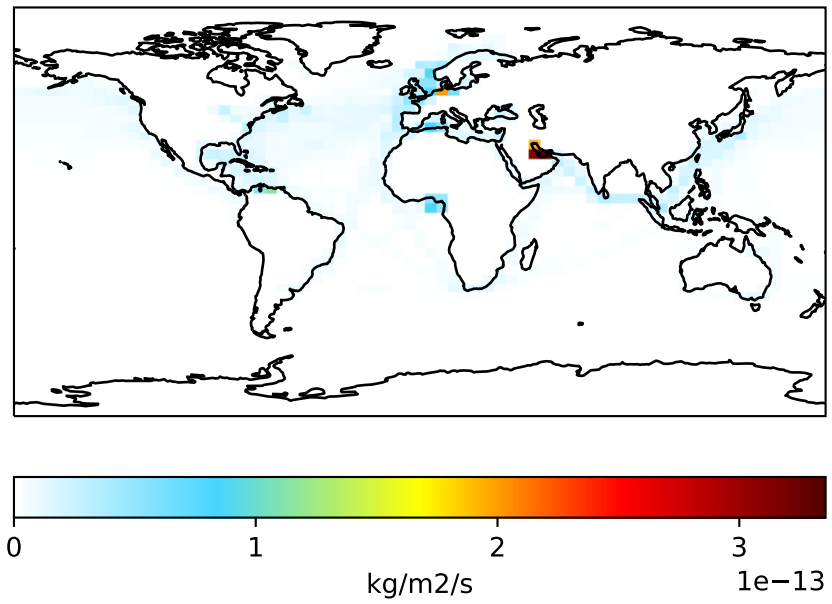


EmisXYLE_Ship

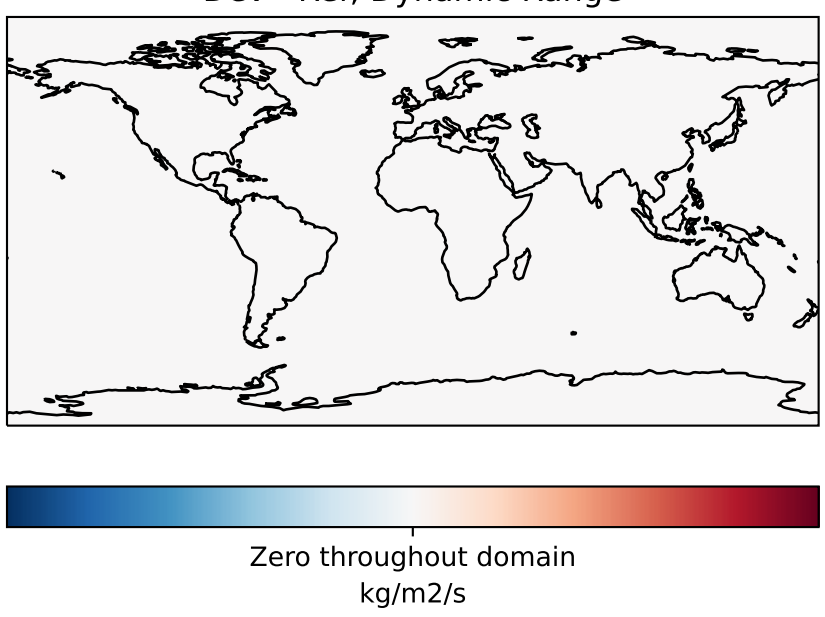
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



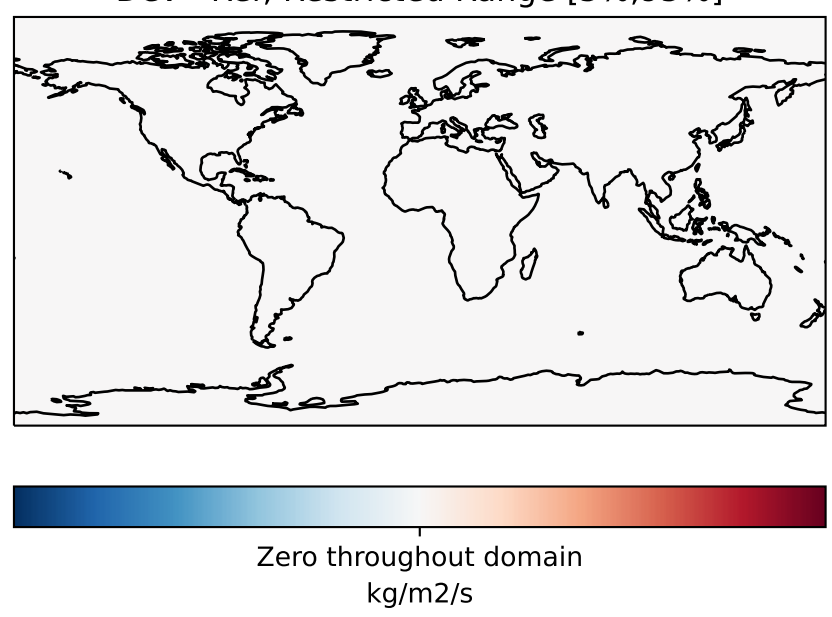
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



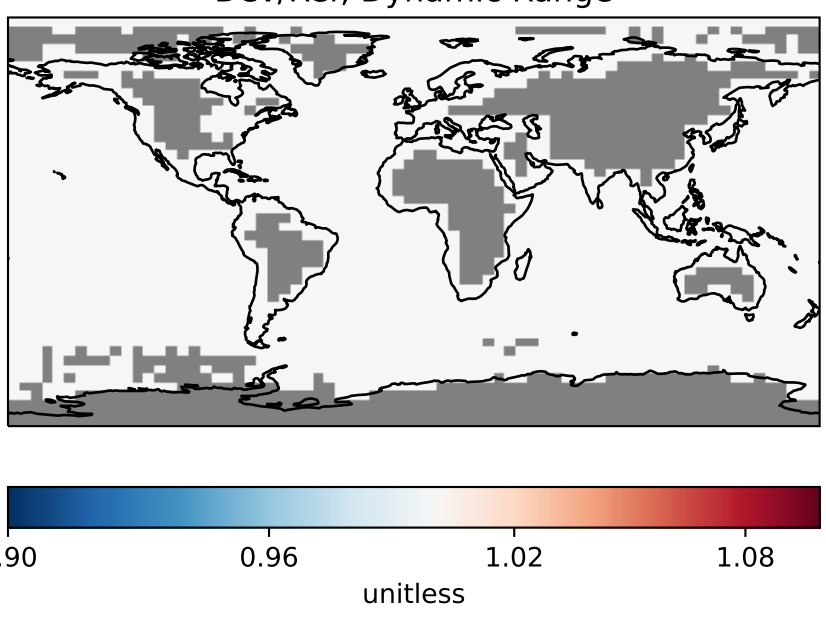
Difference
Dev - Ref, Dynamic Range



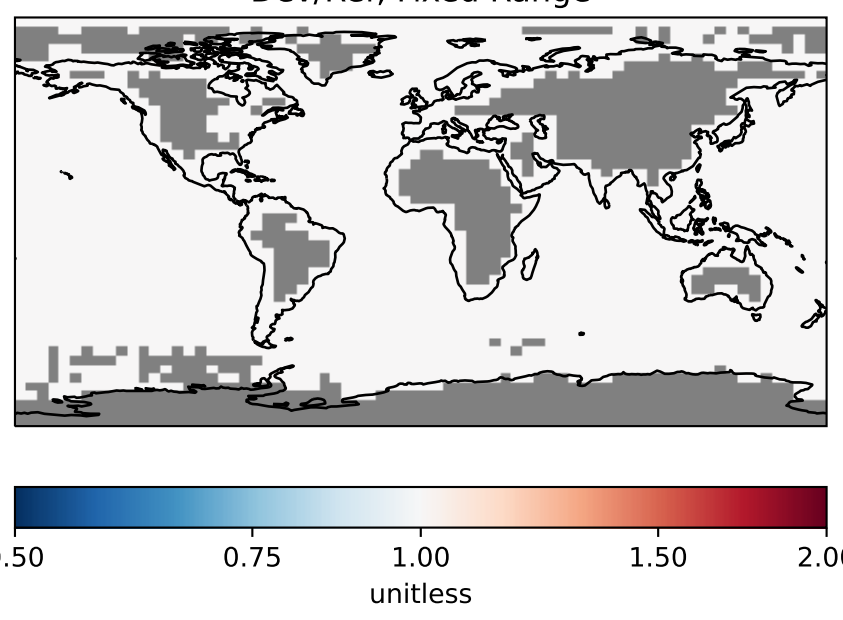
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

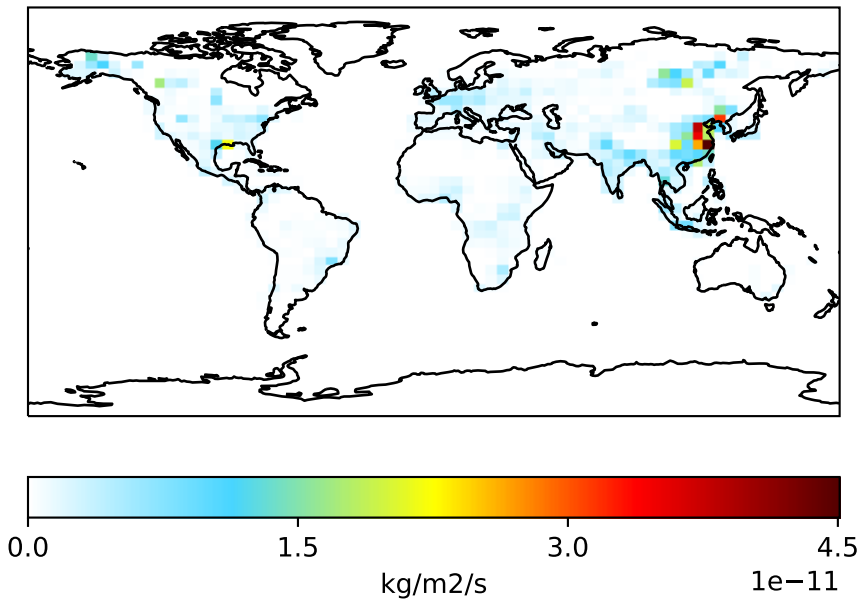


Ratio
Dev/Ref, Fixed Range

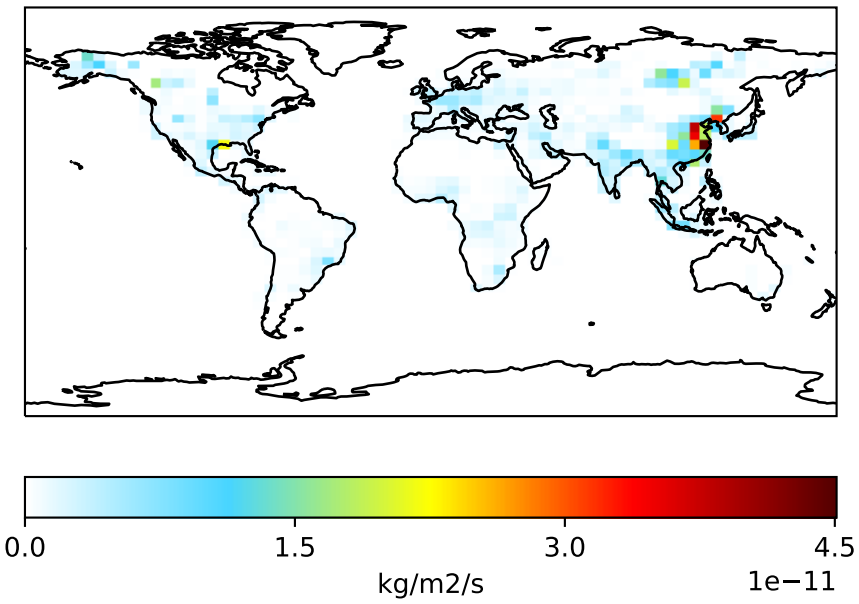


EmisXYLE_Total

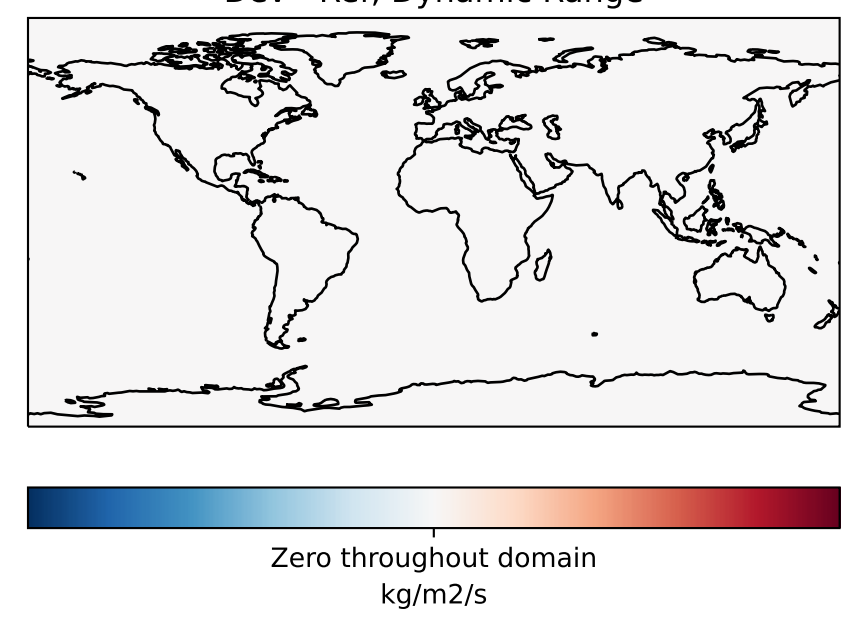
GCC_13.3.0-rc.1 (Ref)
4.0x5.0



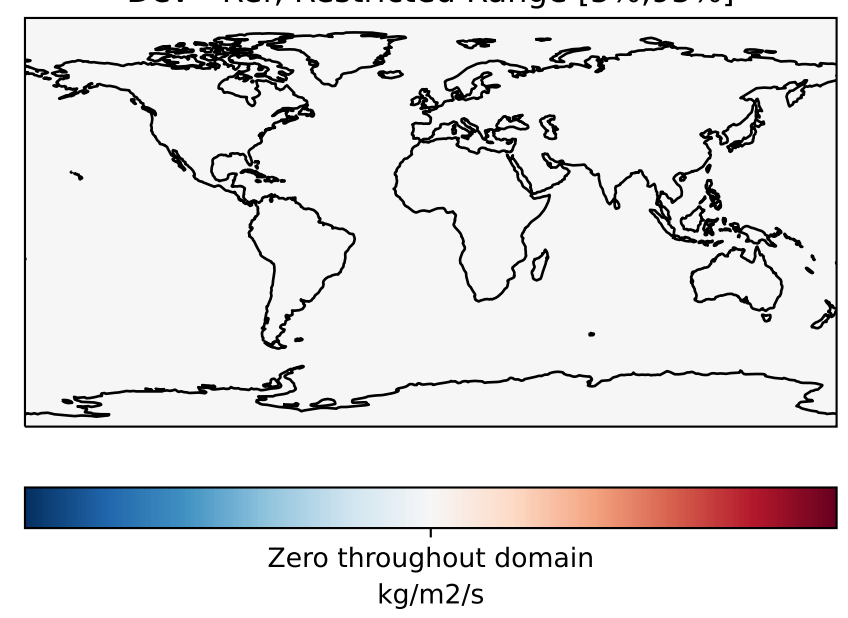
GCC_13.4.0-rc.3 (Dev)
4.0x5.0



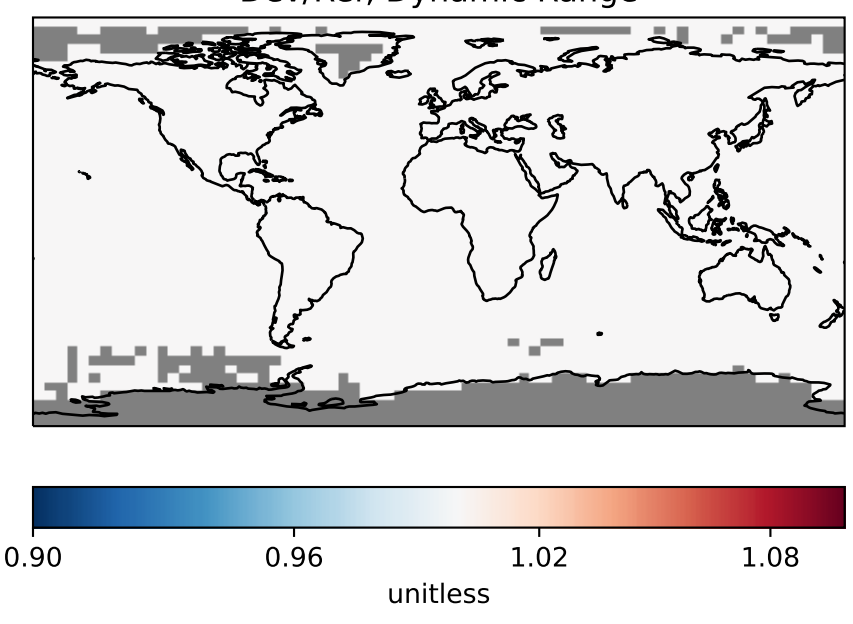
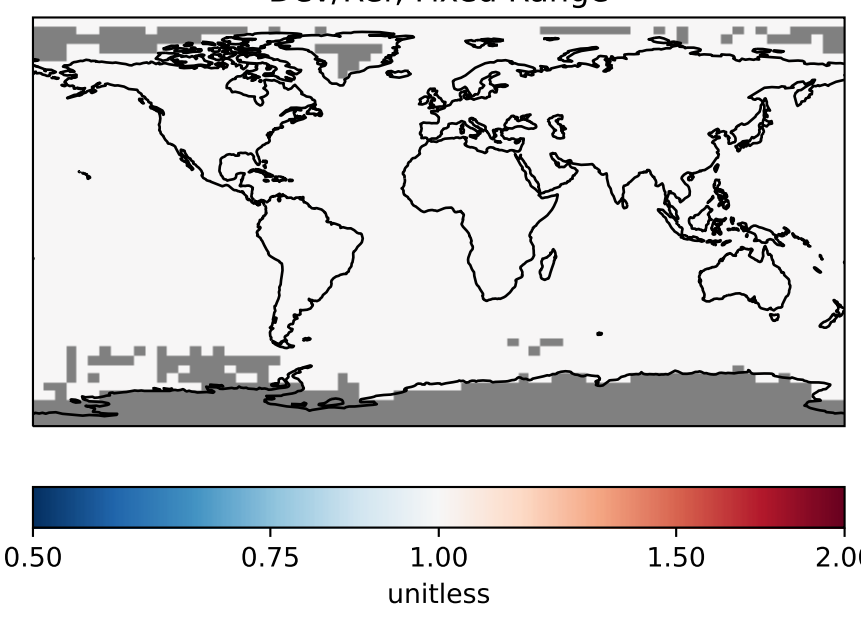
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range