

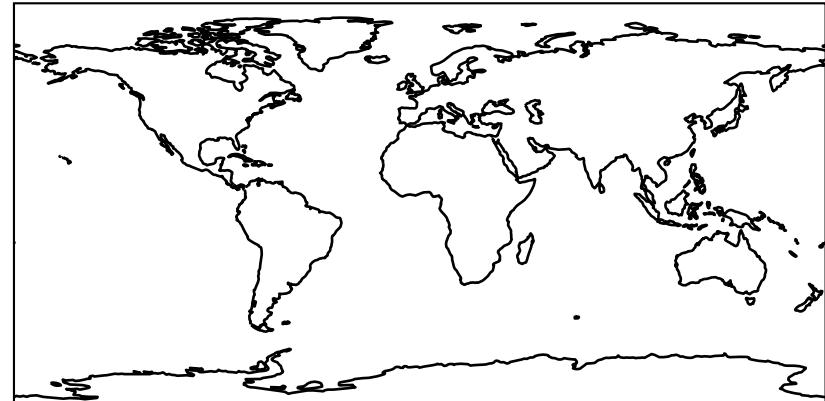
# EmisALD2\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



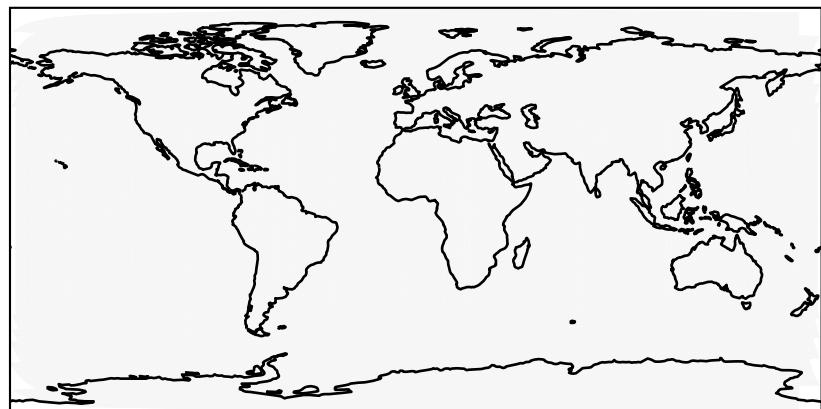
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



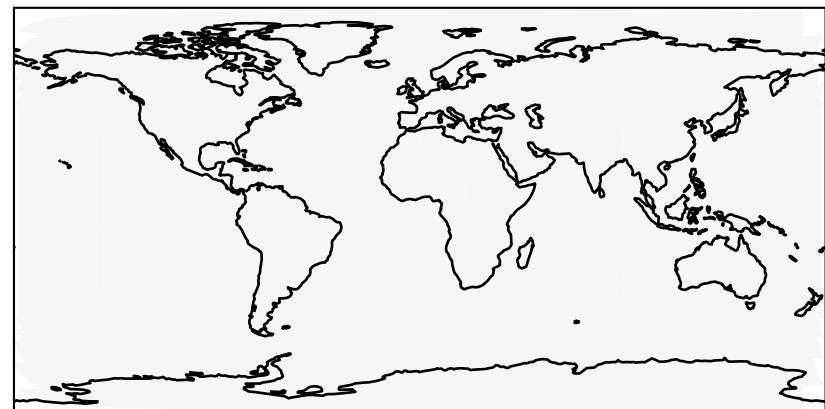
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



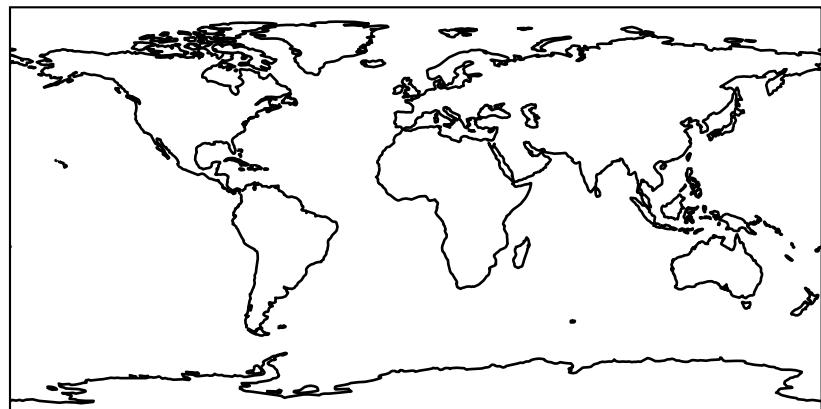
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



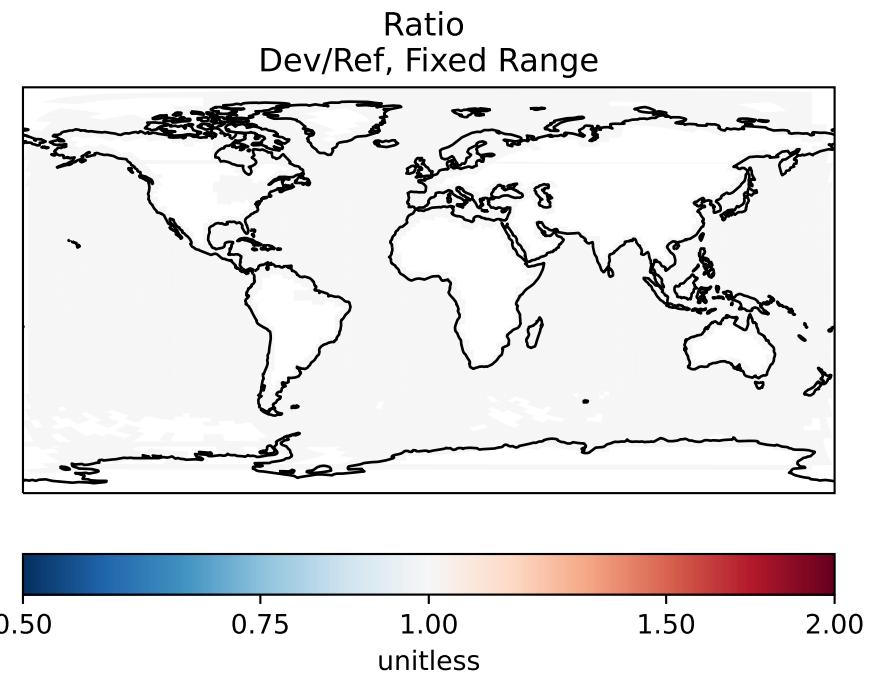
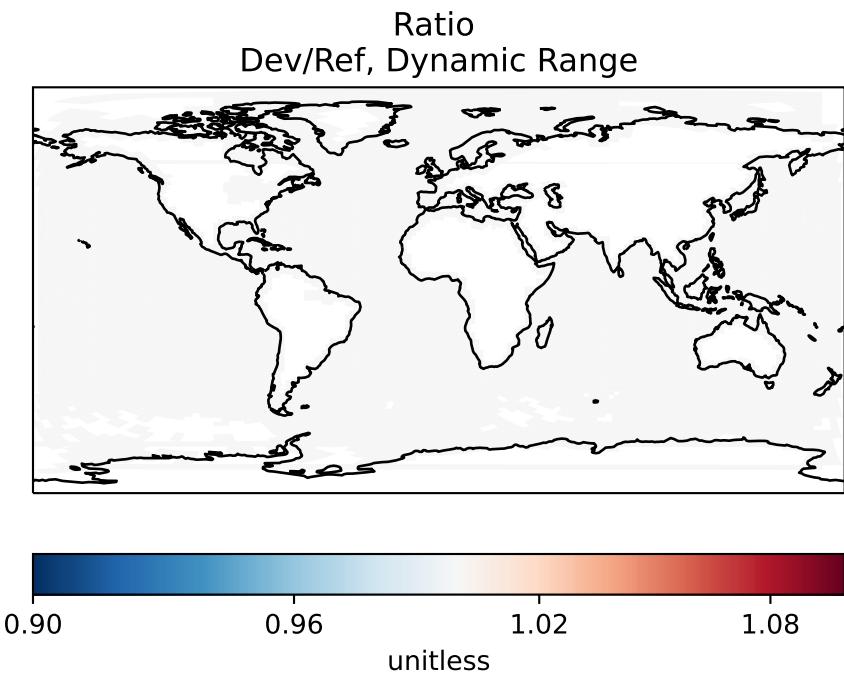
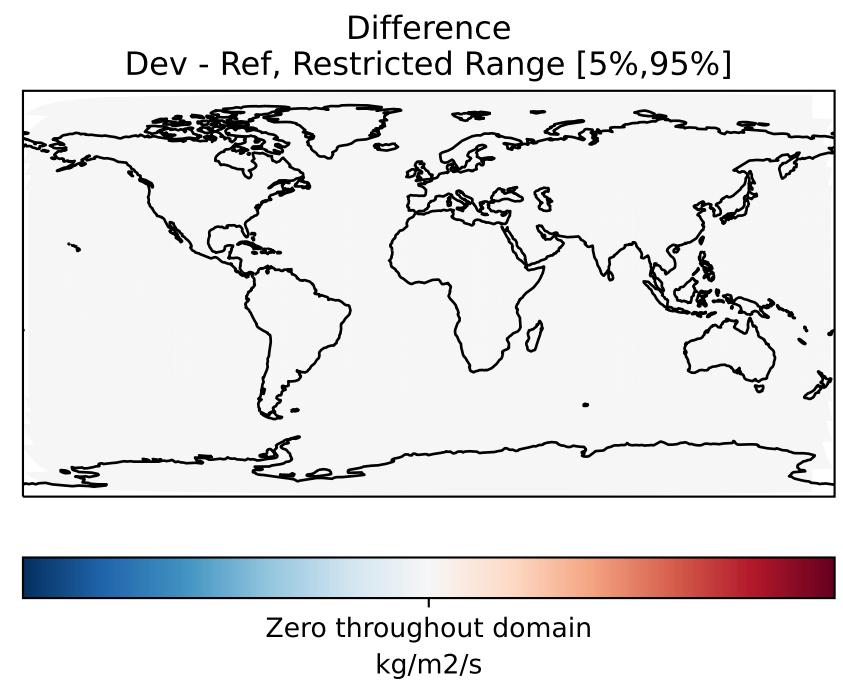
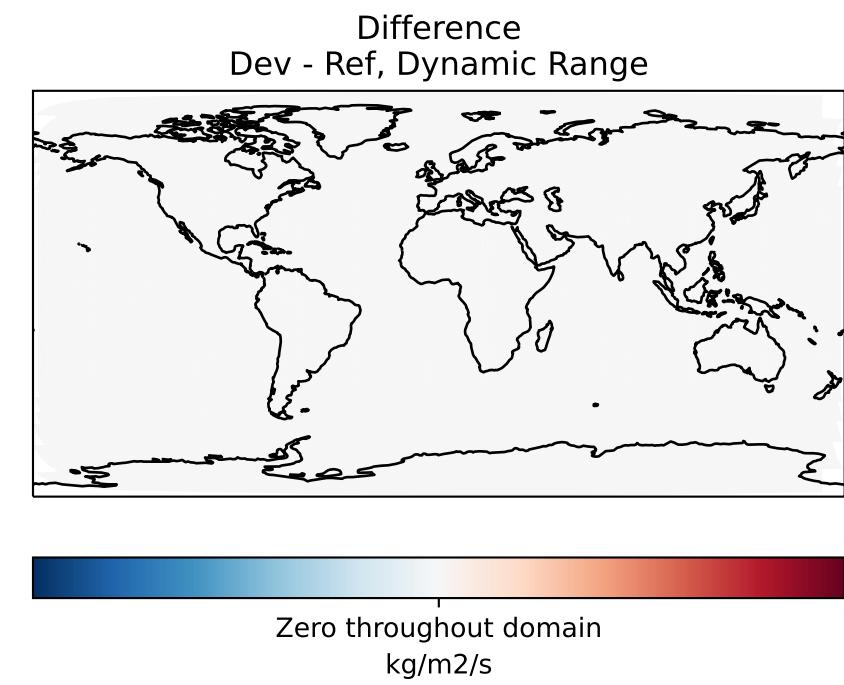
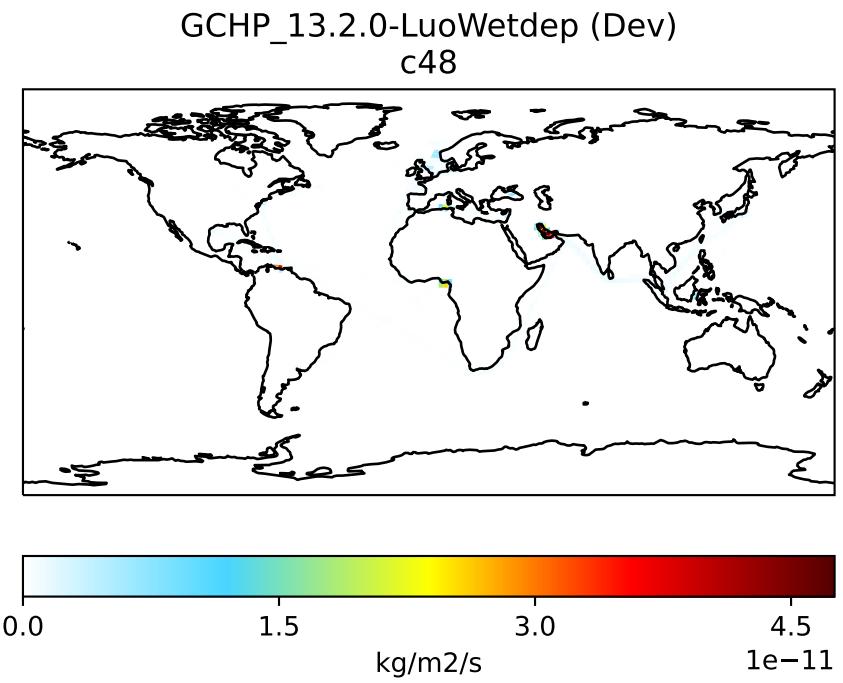
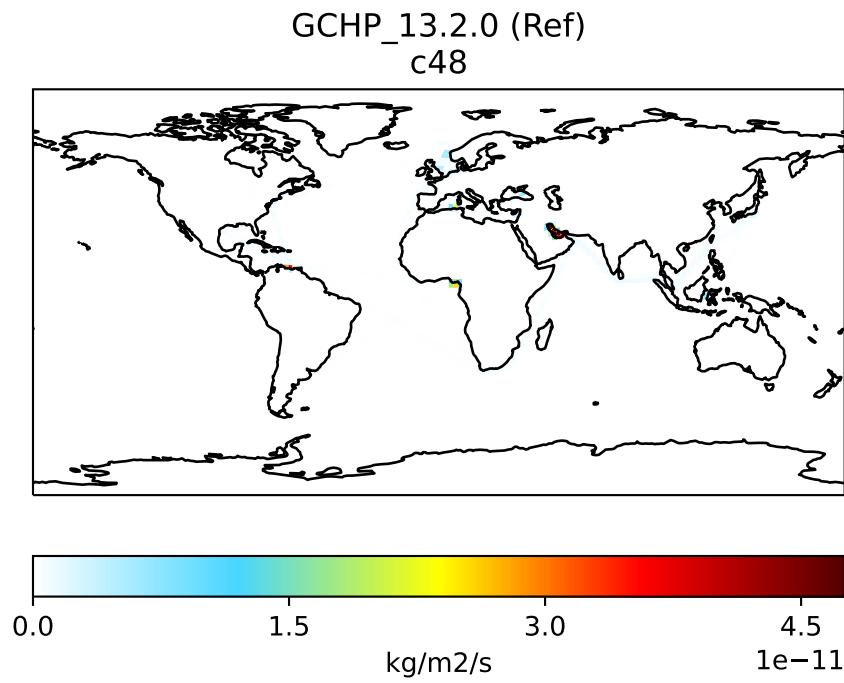
Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range

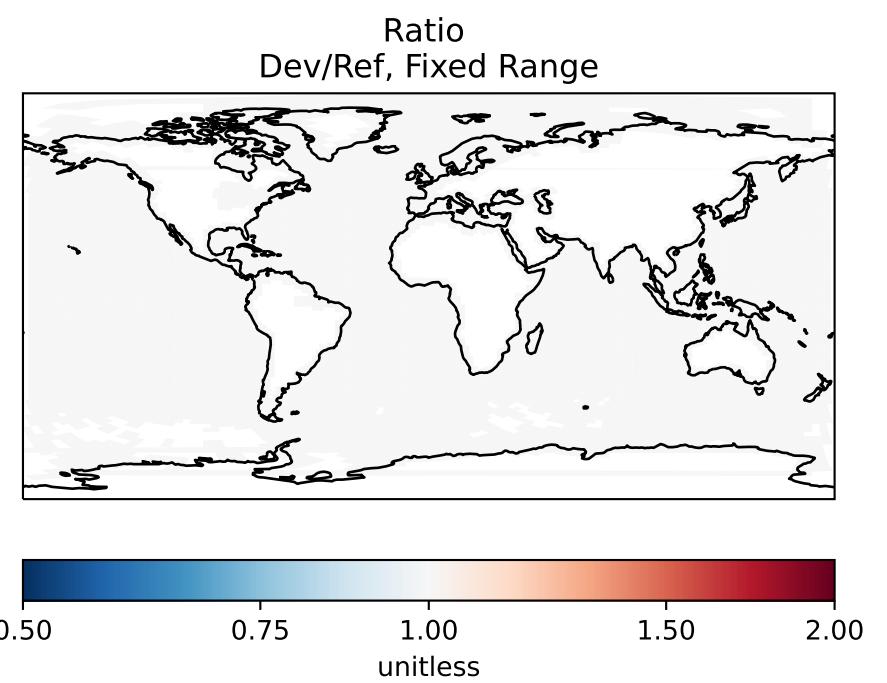
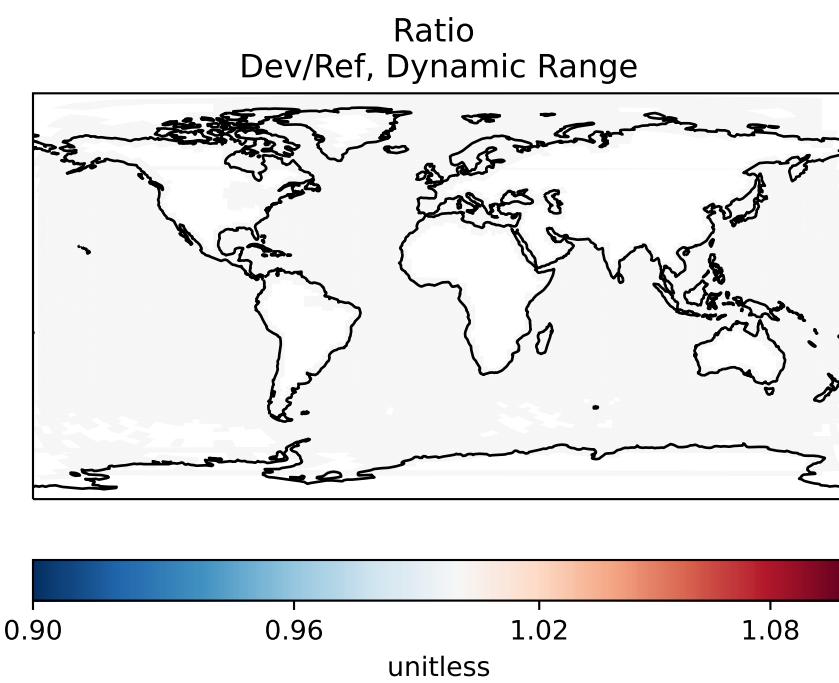
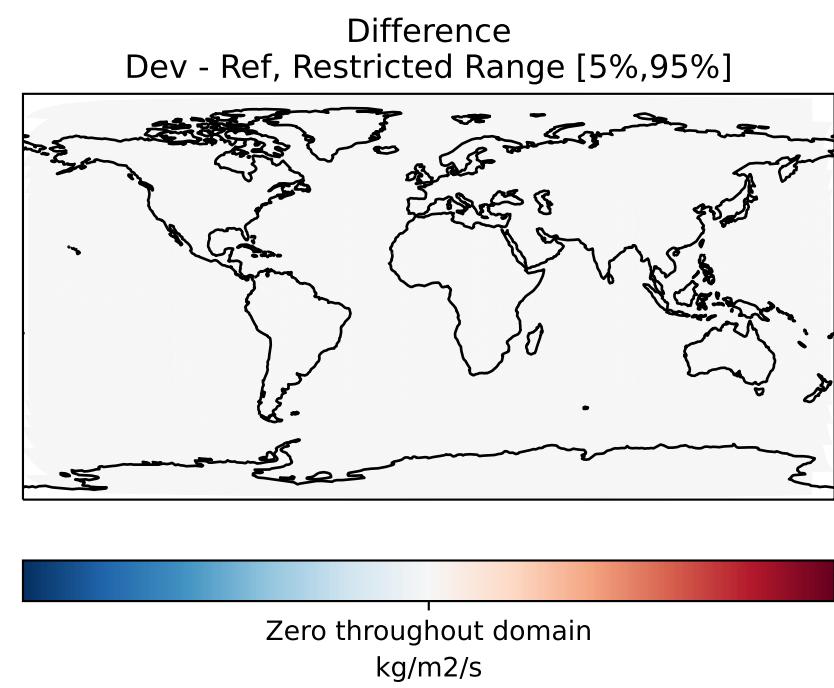
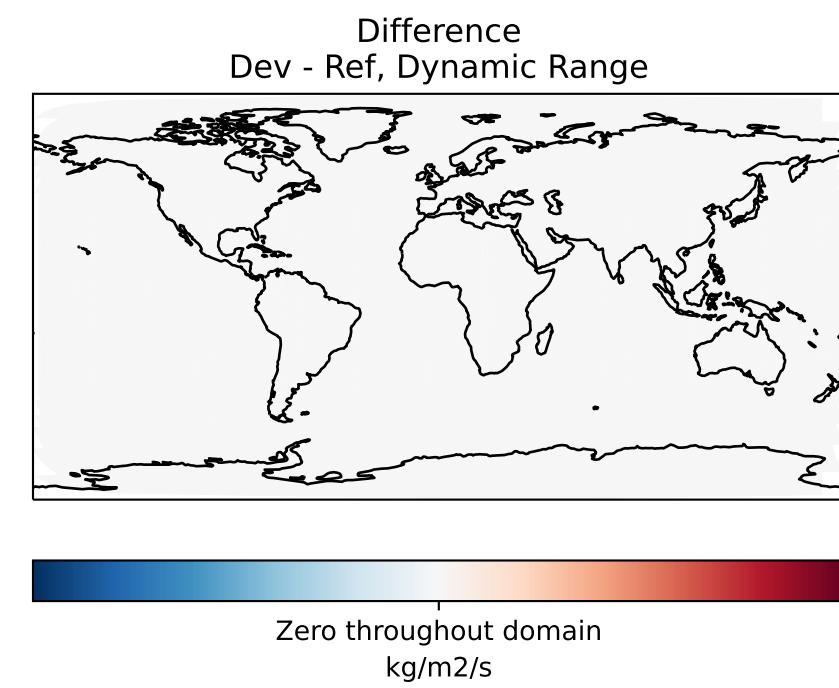
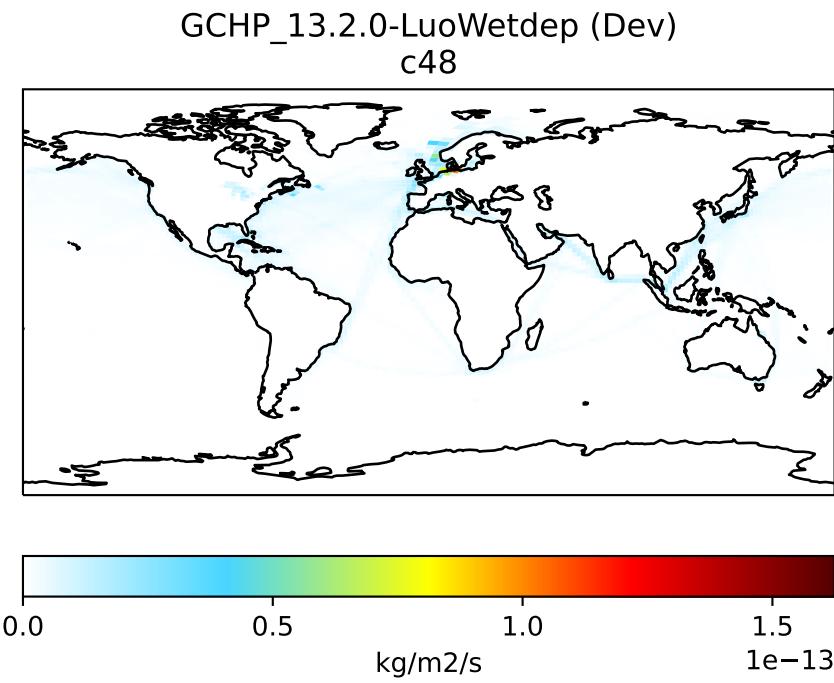
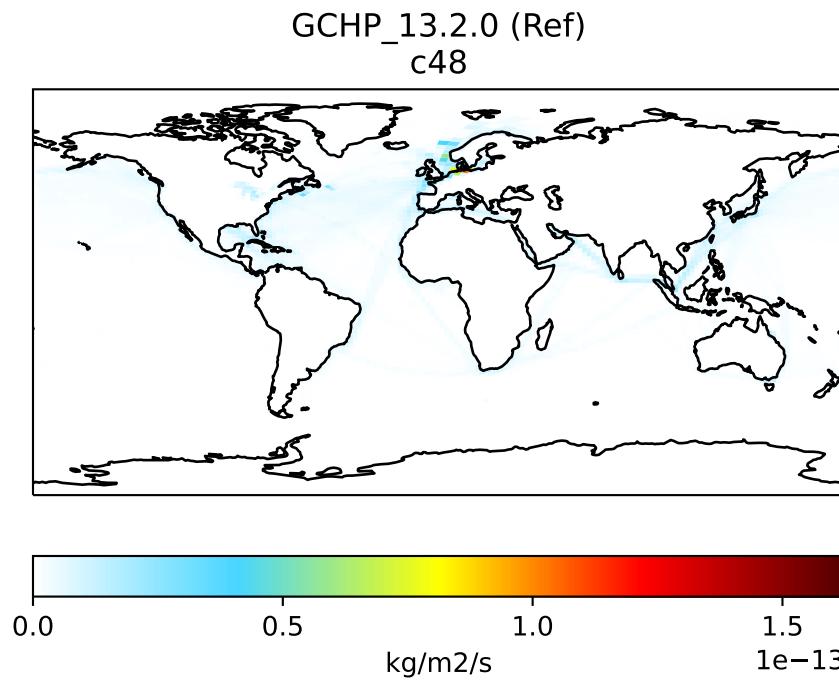


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unitless

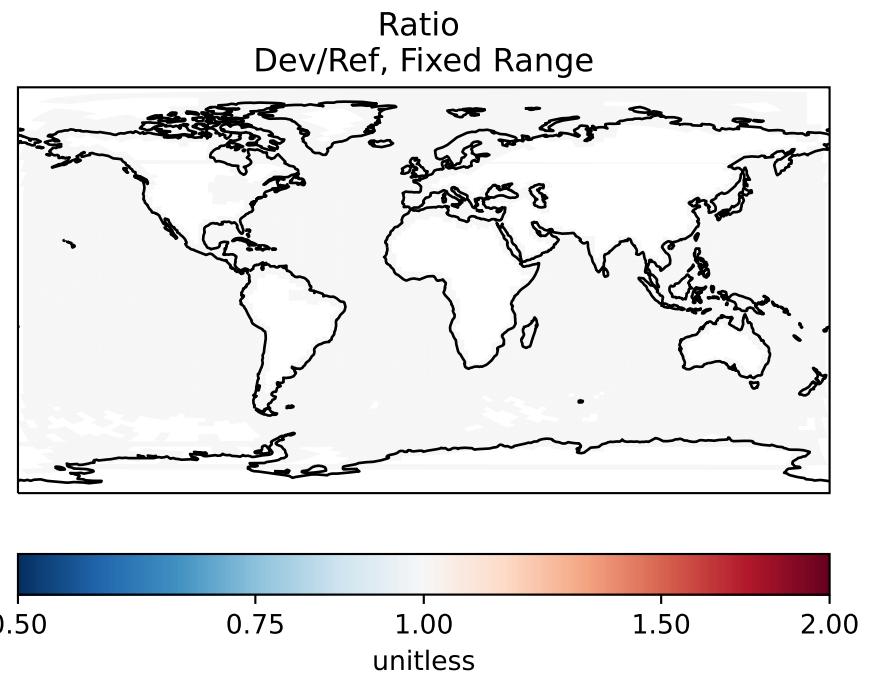
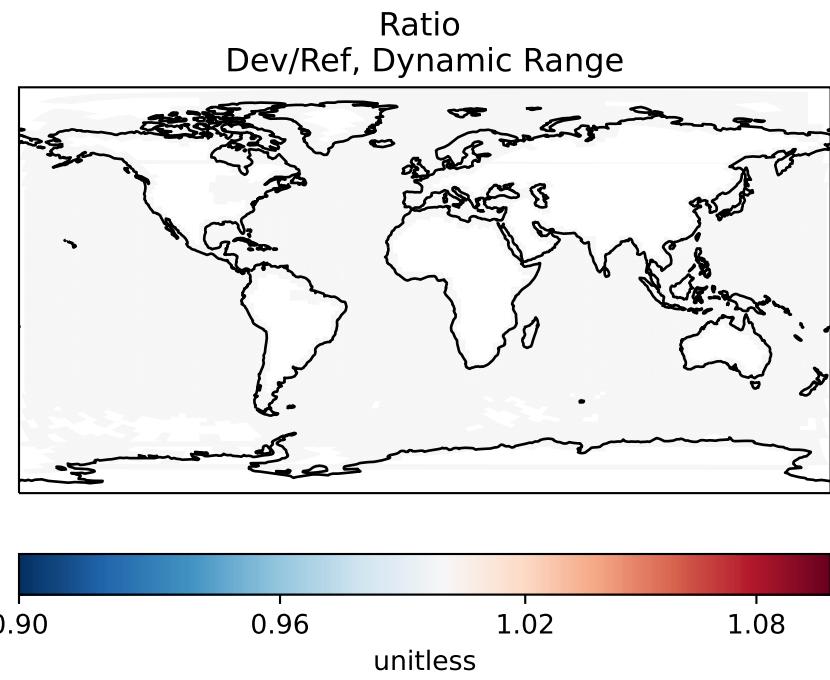
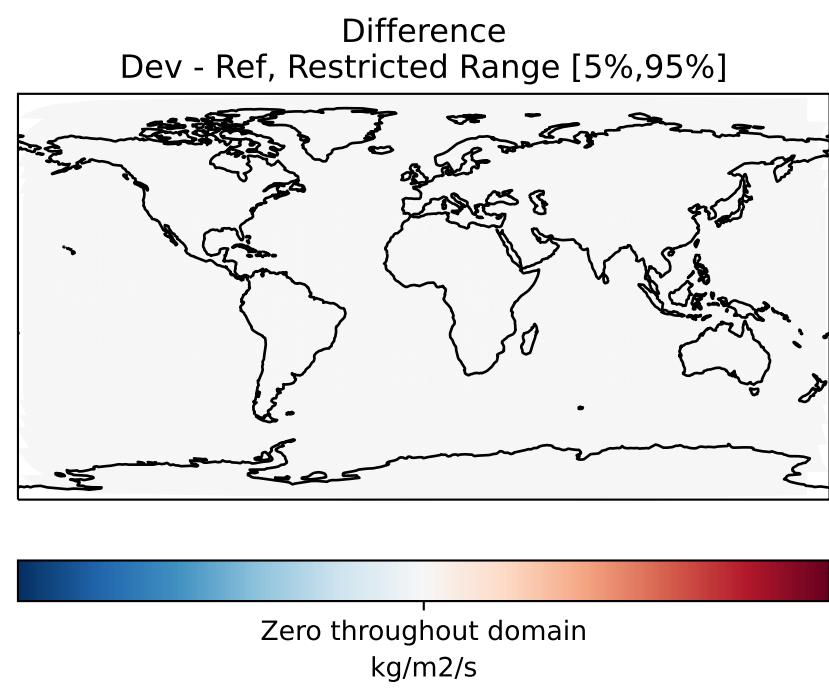
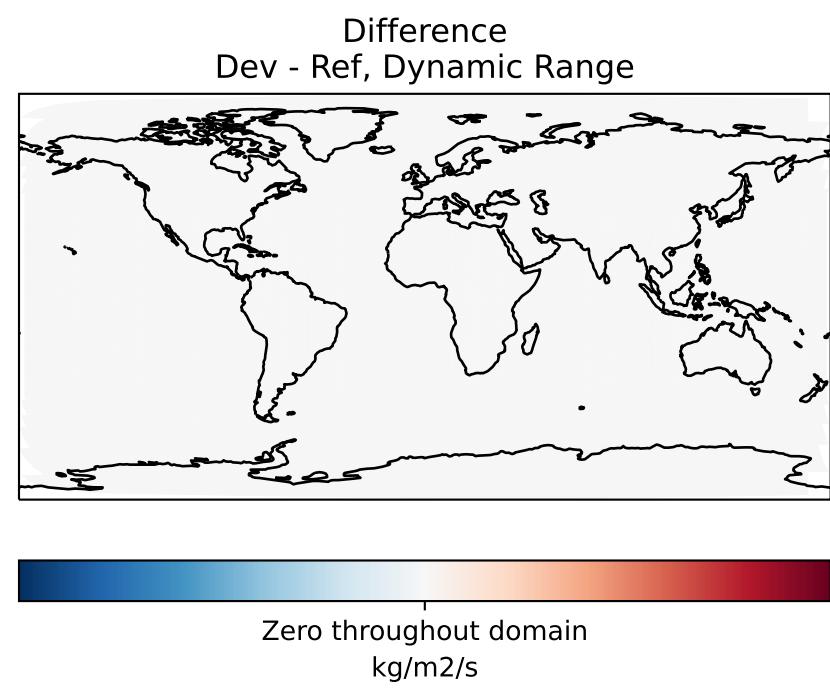
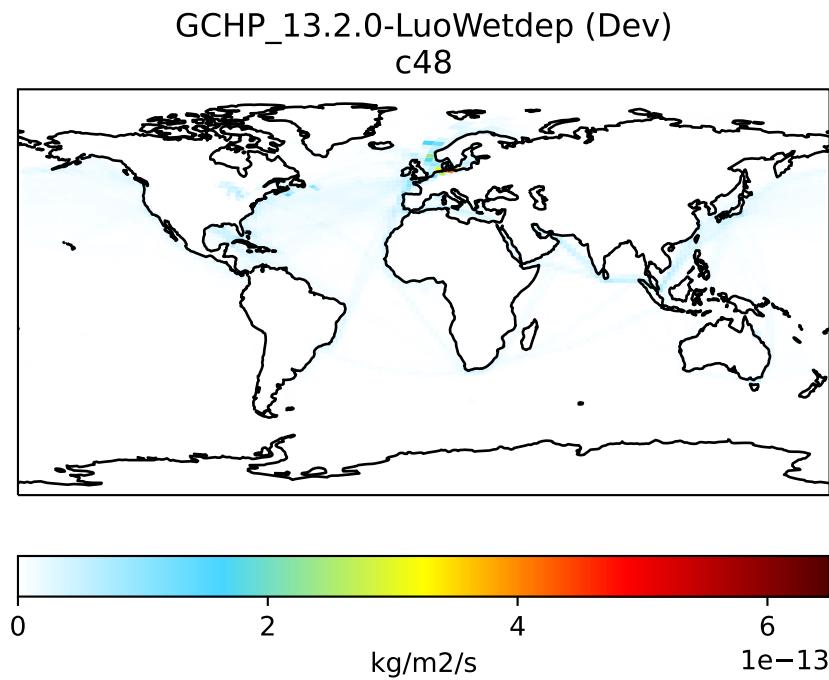
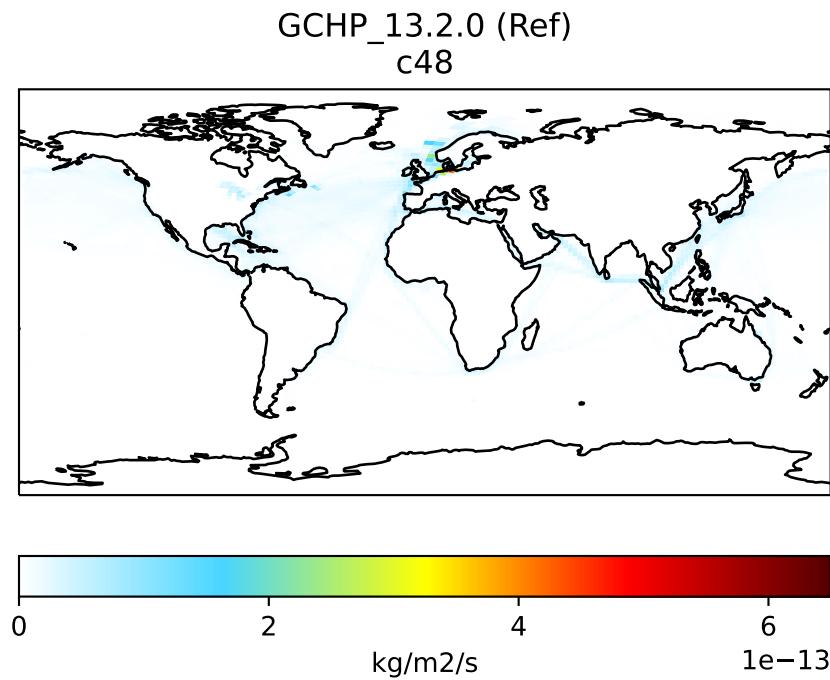
# EmisALK4\_Ship (Jul2019)



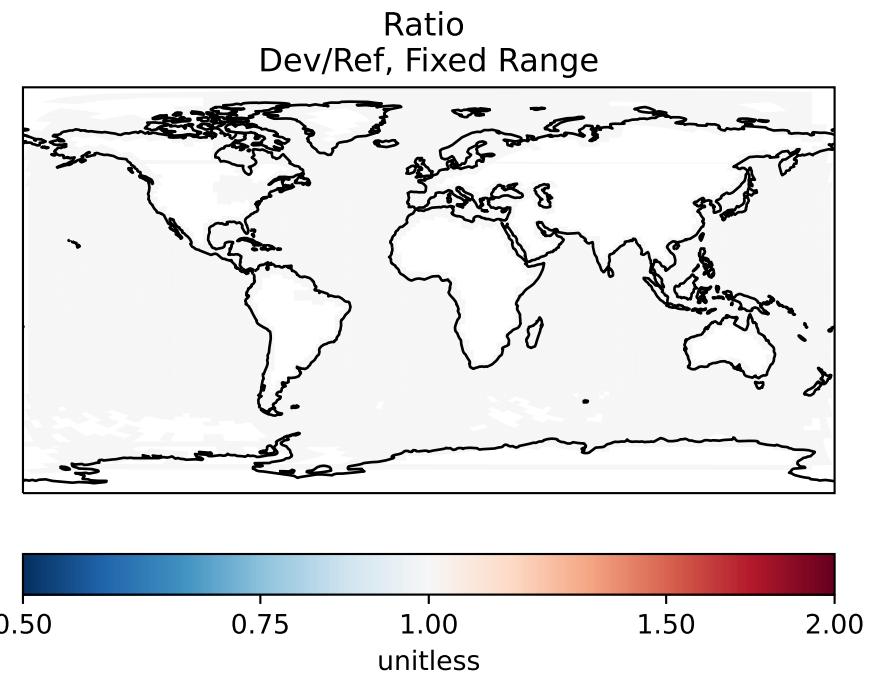
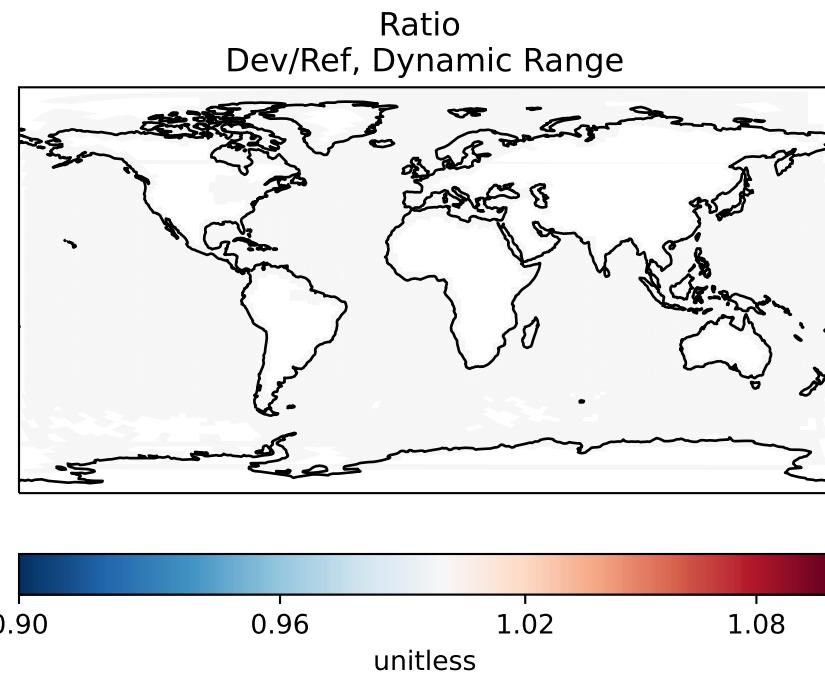
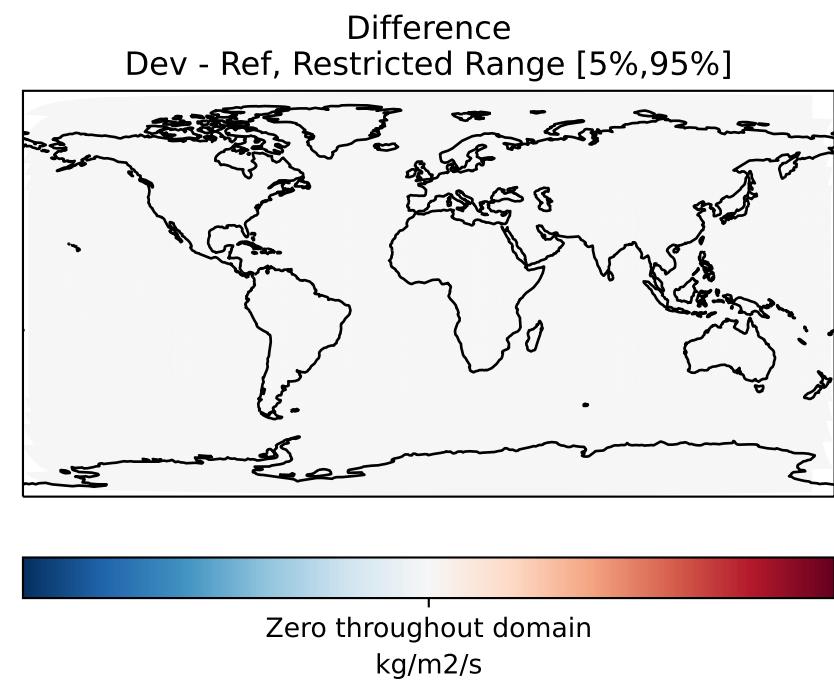
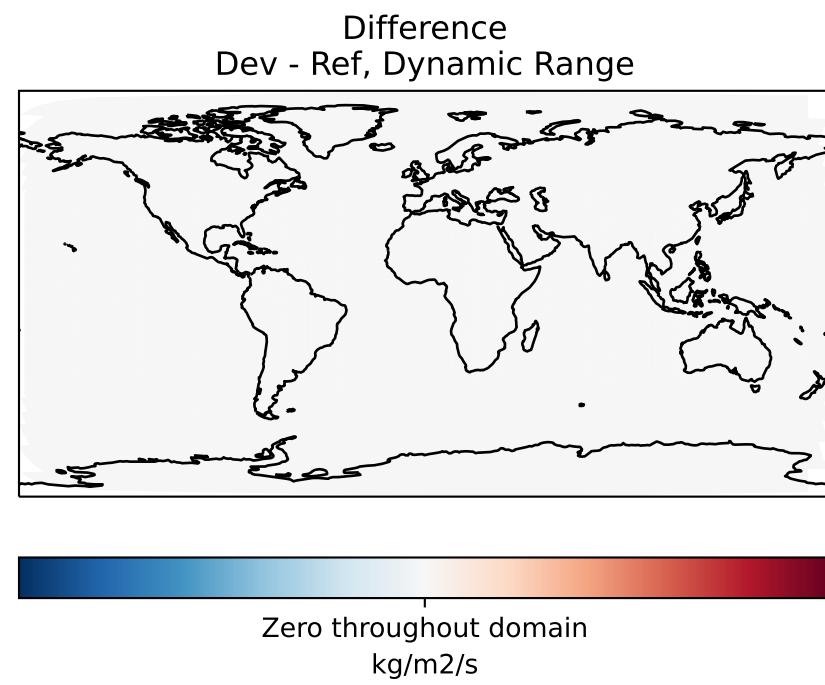
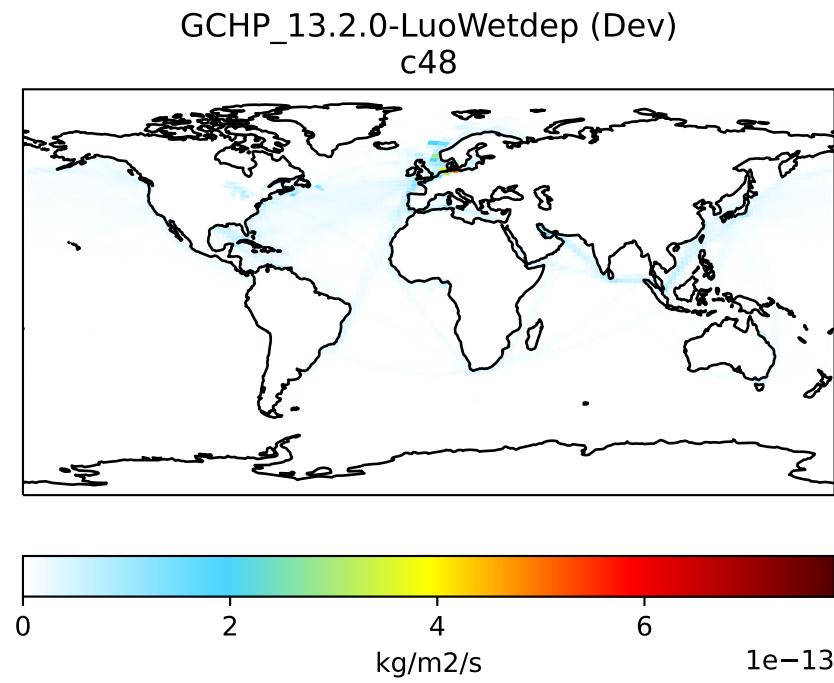
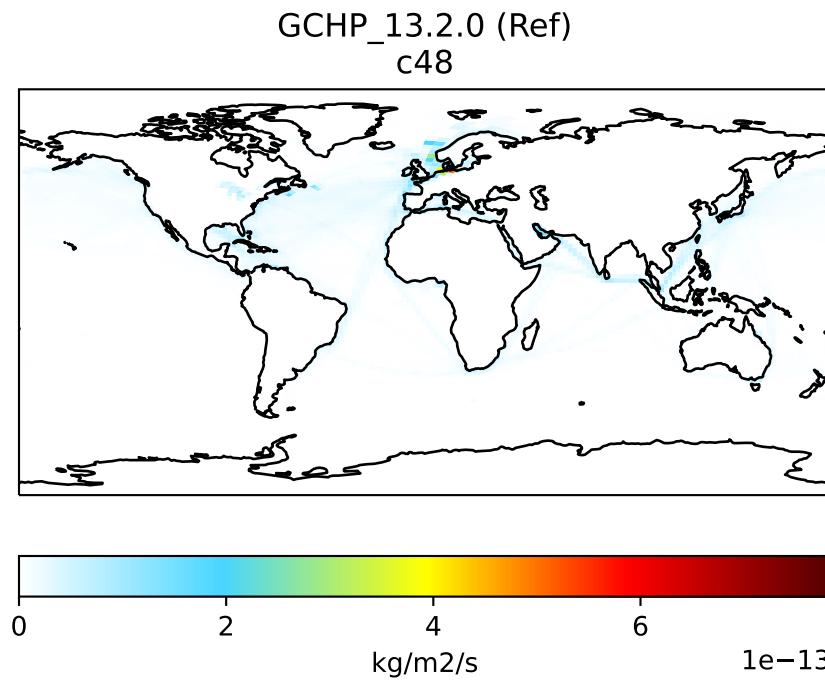
# EmisBCPI\_Ship (Jul2019)



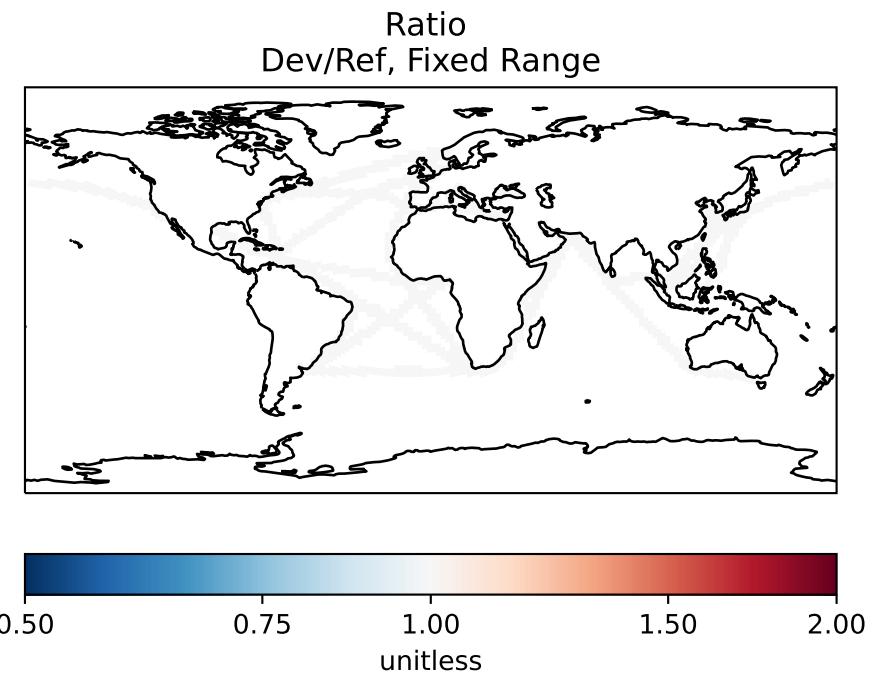
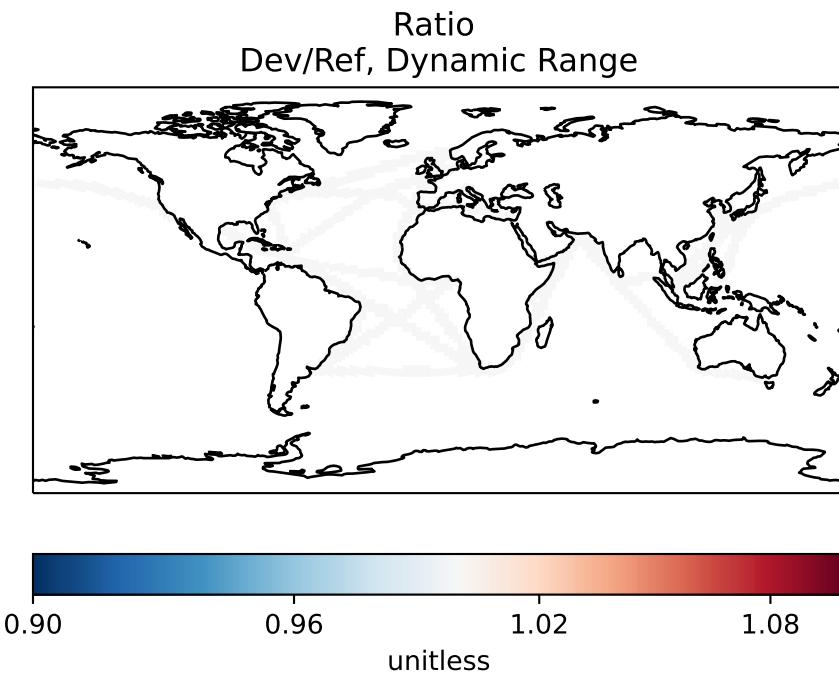
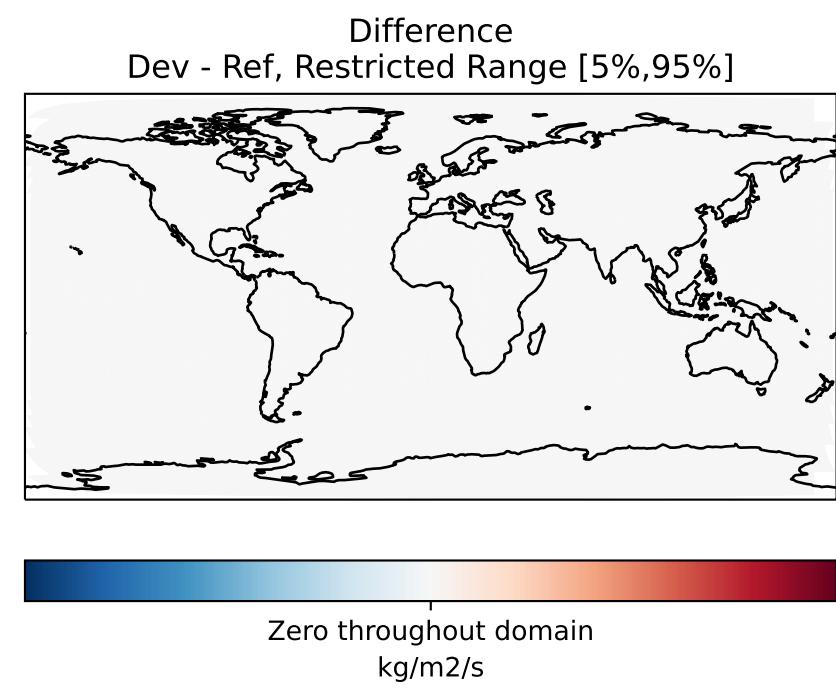
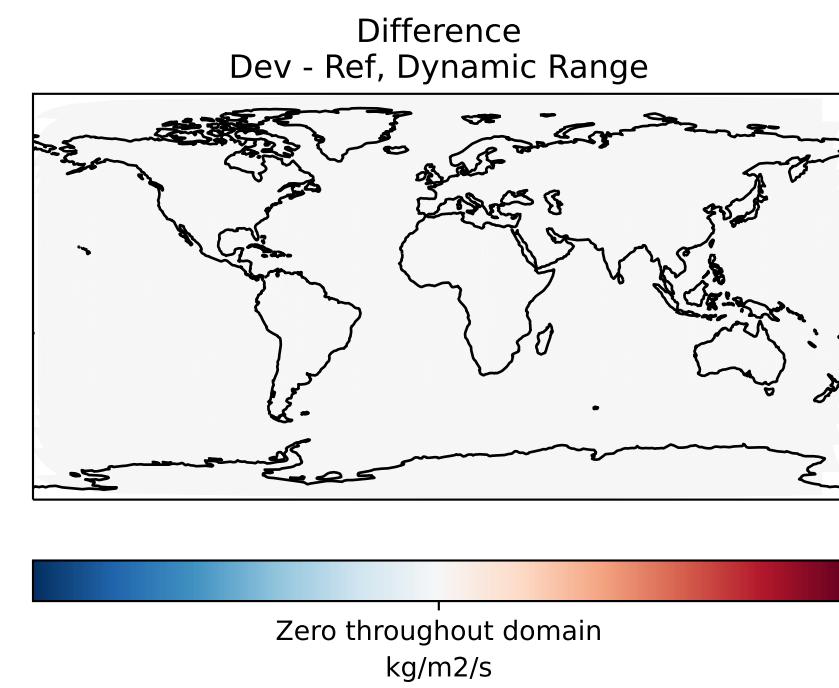
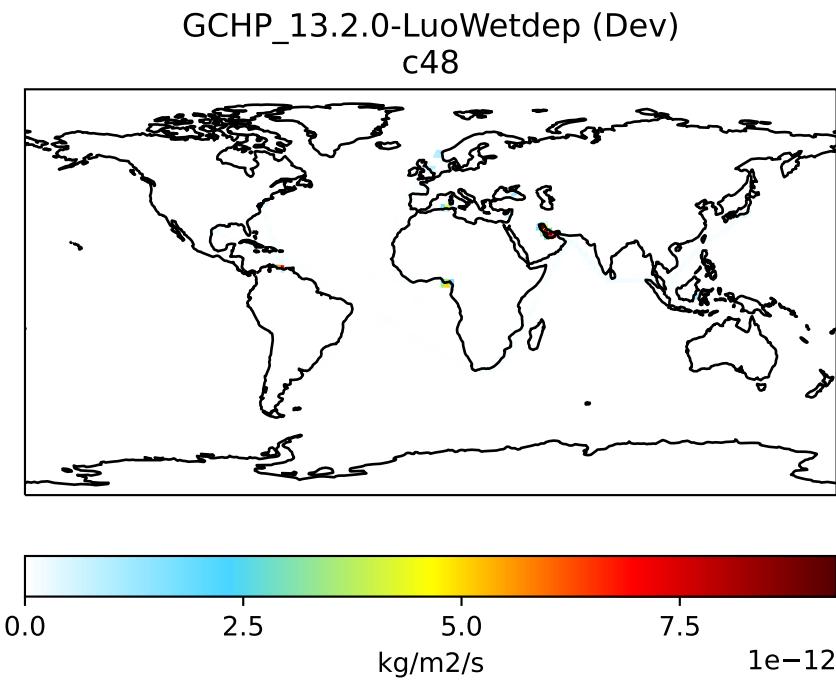
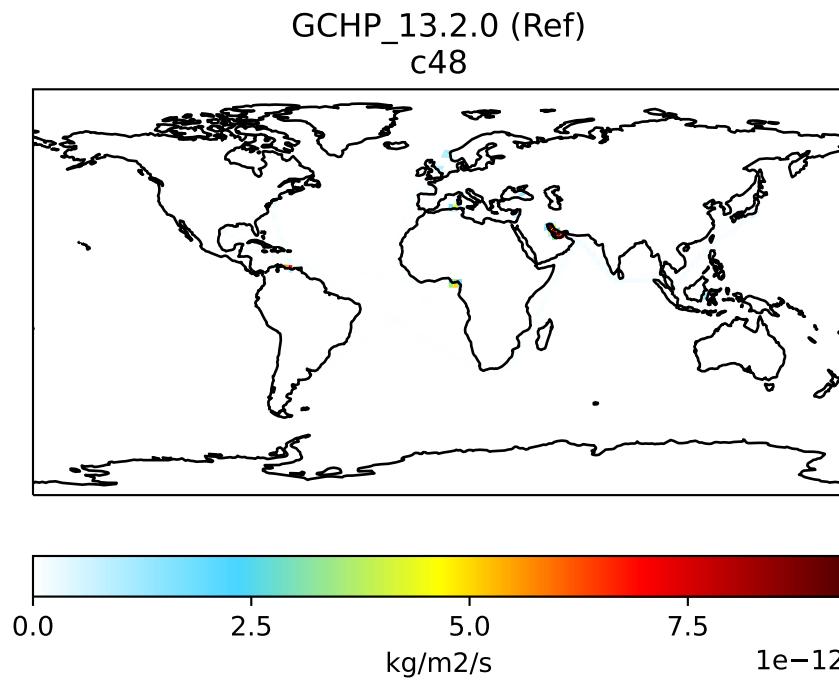
# EmisBCPO\_Ship (Jul2019)



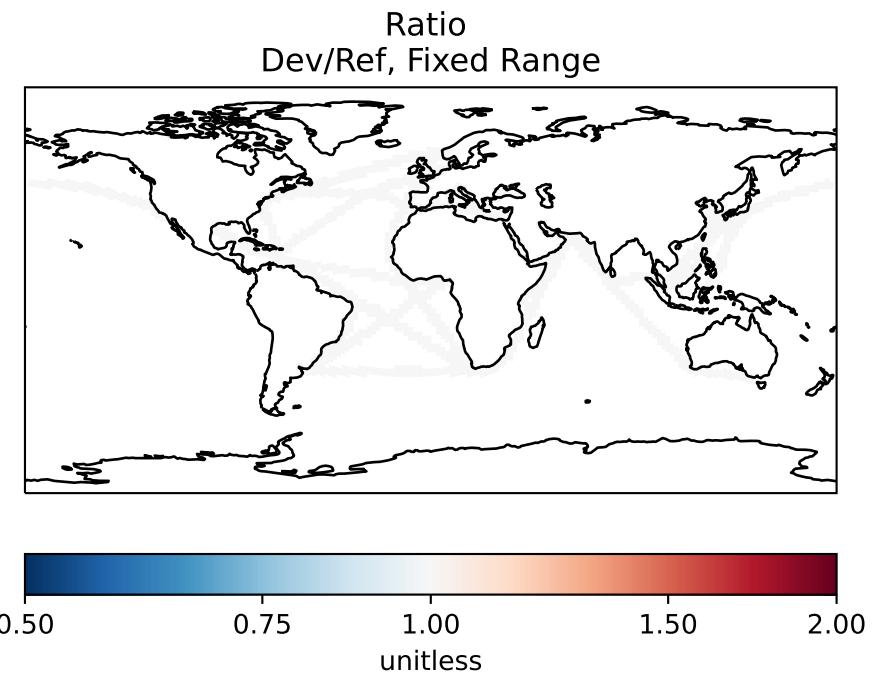
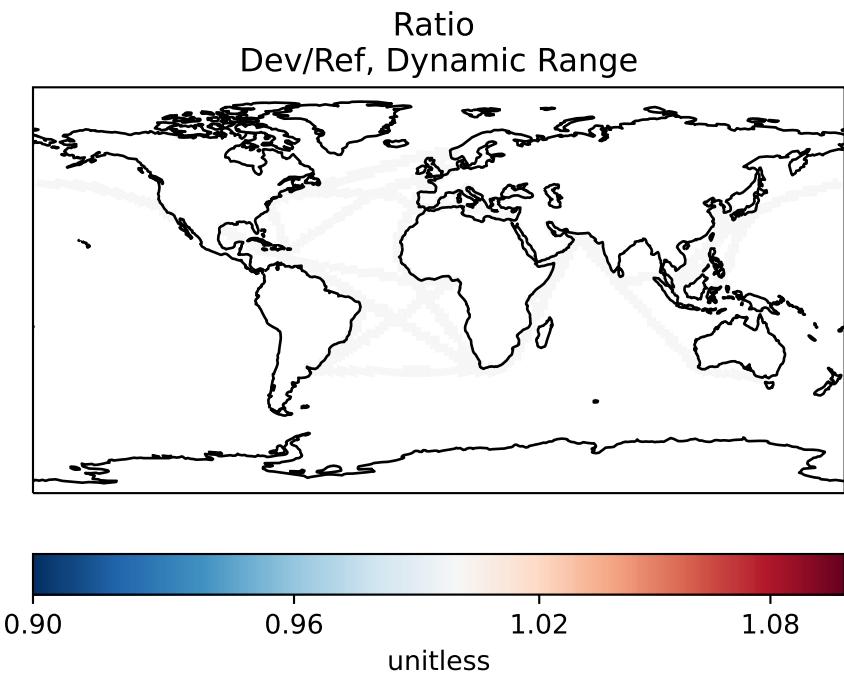
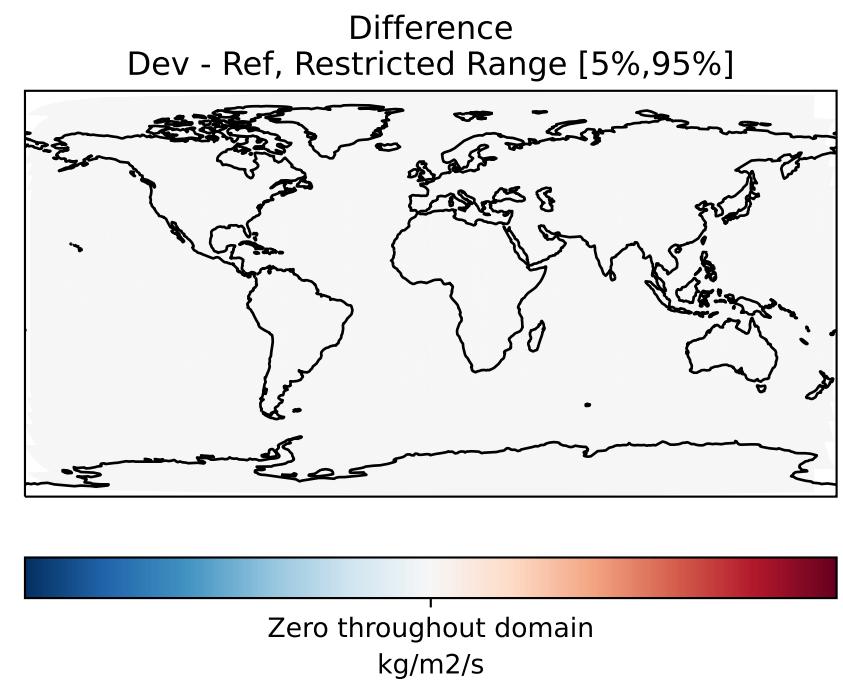
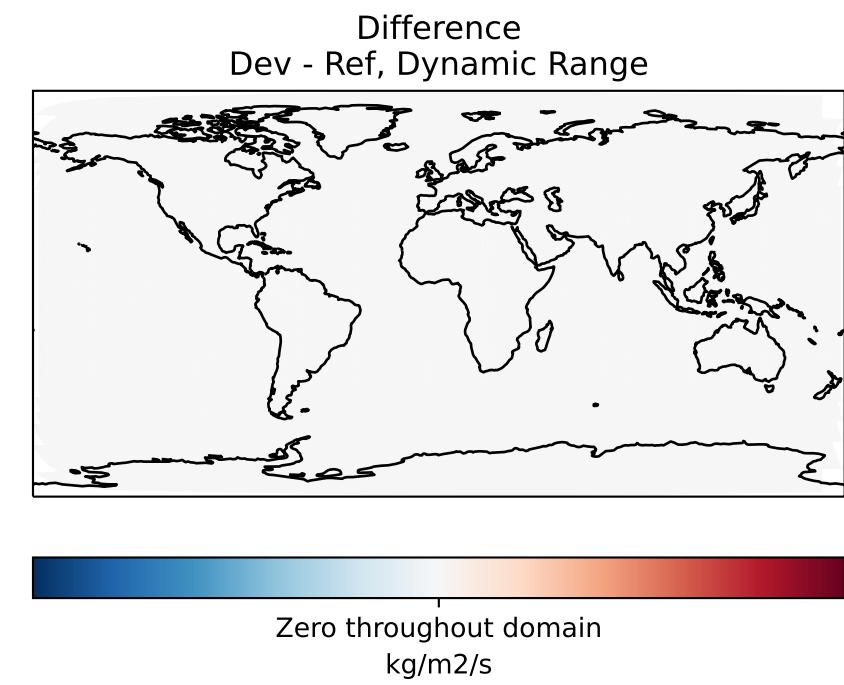
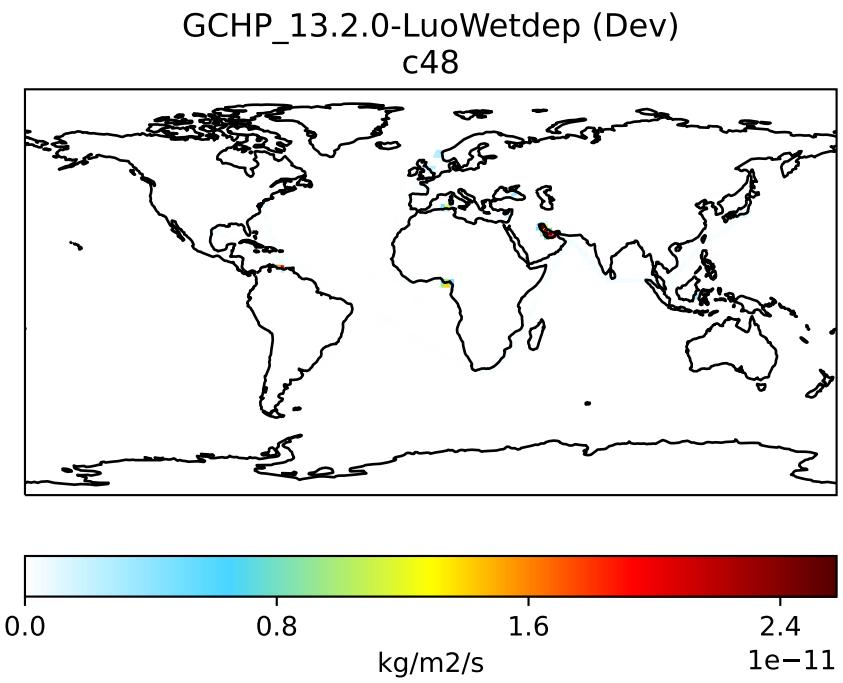
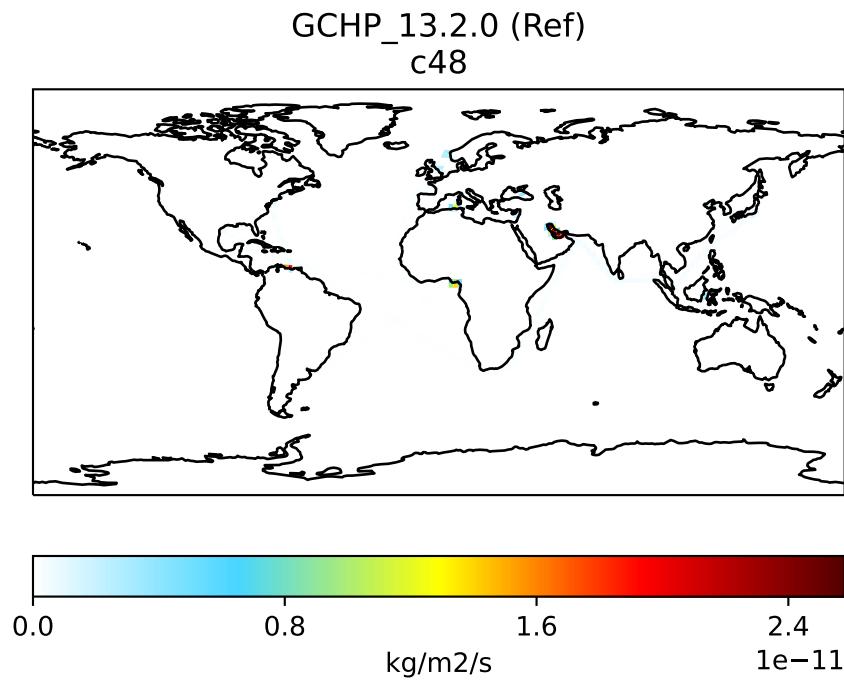
# EmisBENZ\_Ship (Jul2019)



# EmisC2H6\_Ship (Jul2019)

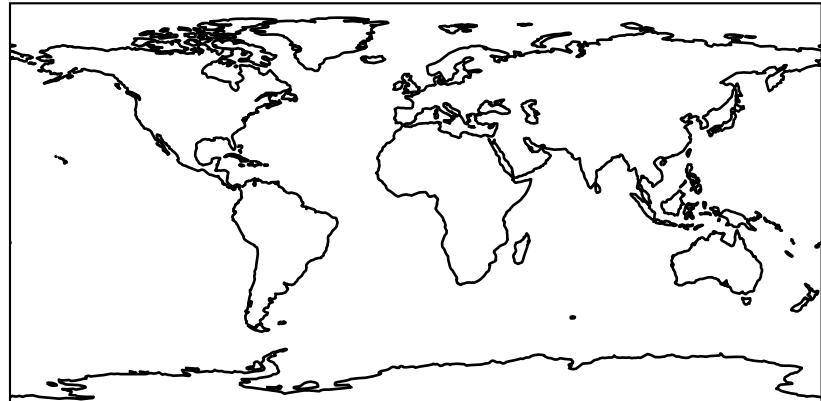


# EmisC3H8\_Ship (Jul2019)



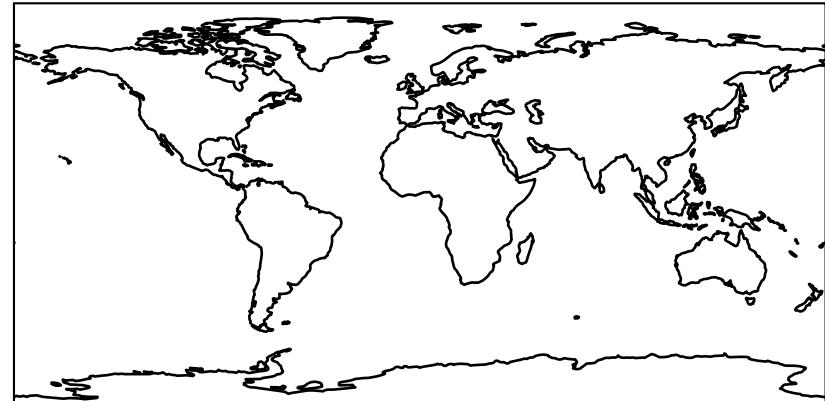
# EmisCH2O\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



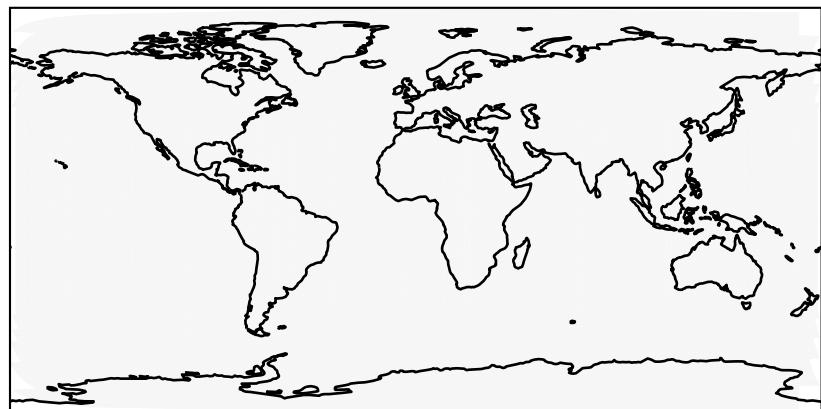
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



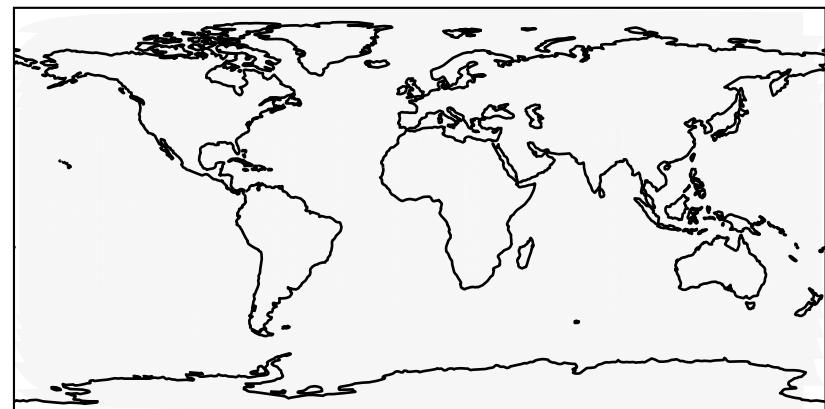
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



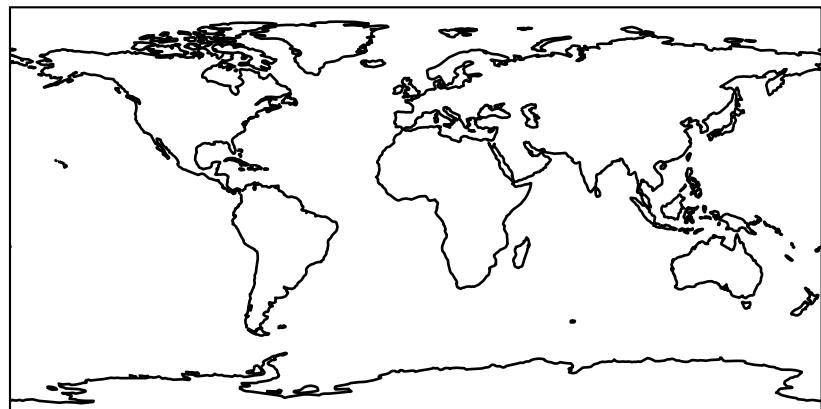
Zero throughout domain  
kg/m<sup>2</sup>/s

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



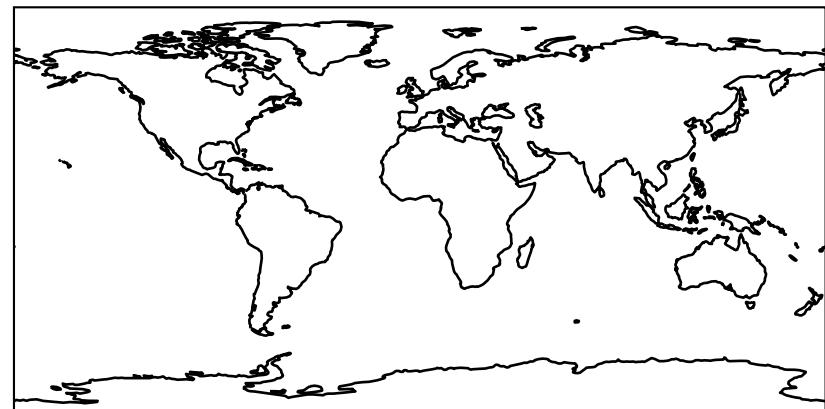
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

# EmisCO2\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



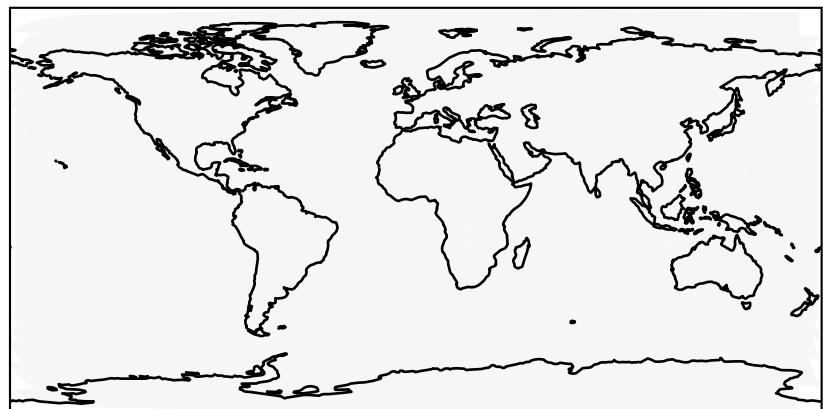
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



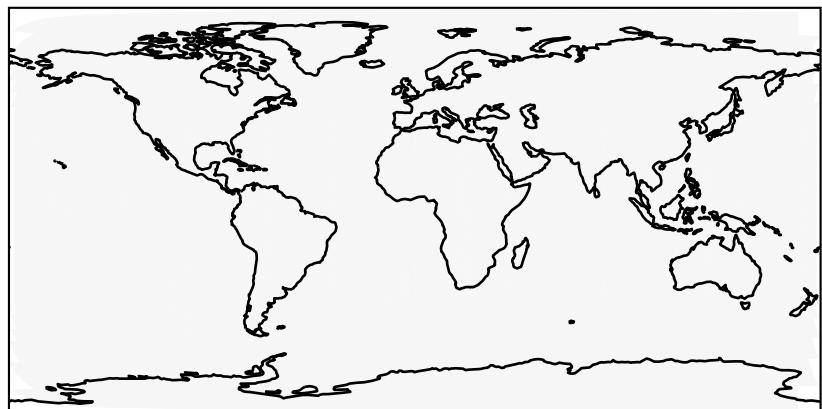
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



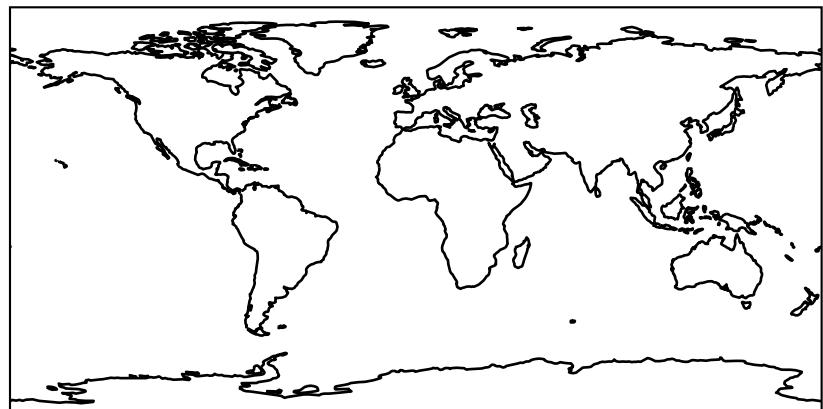
Zero throughout domain  
kg/m<sup>2</sup>/s

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



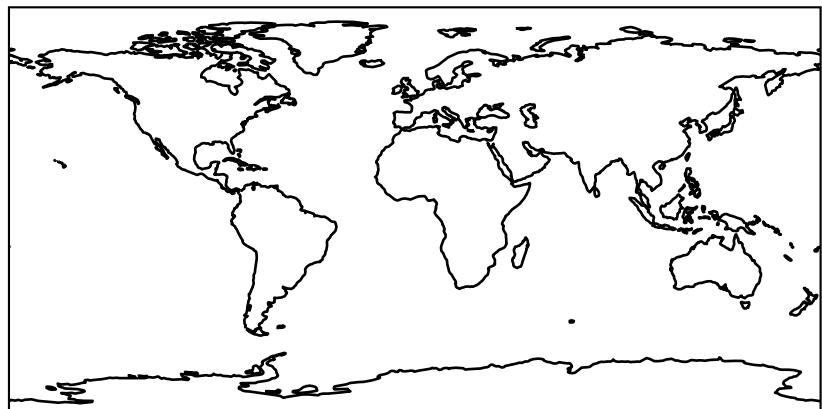
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



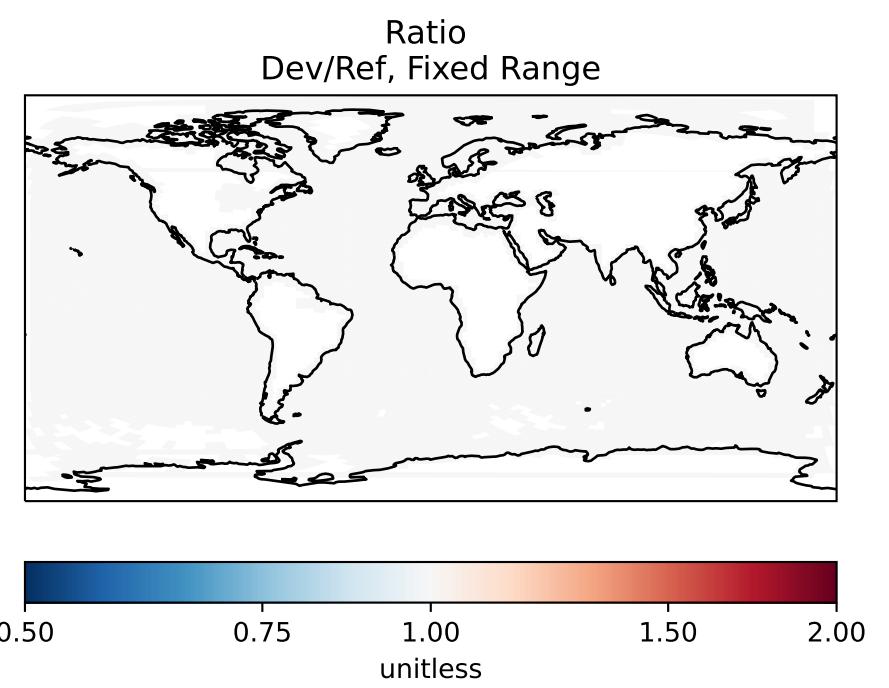
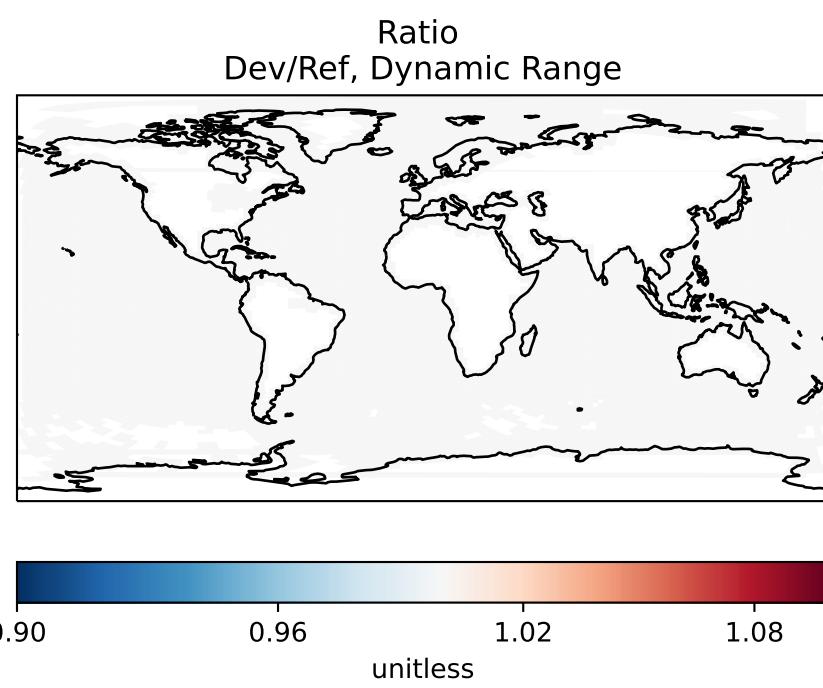
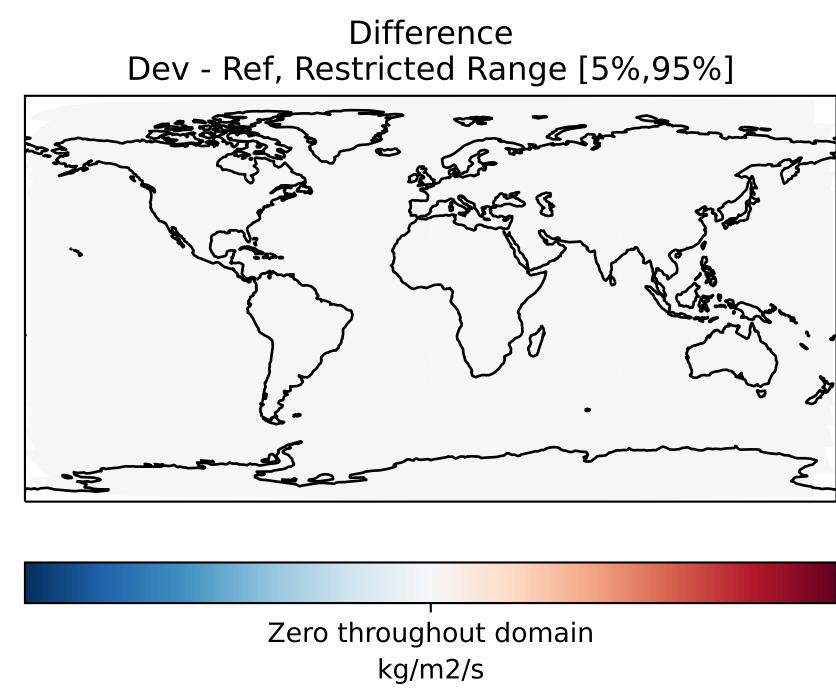
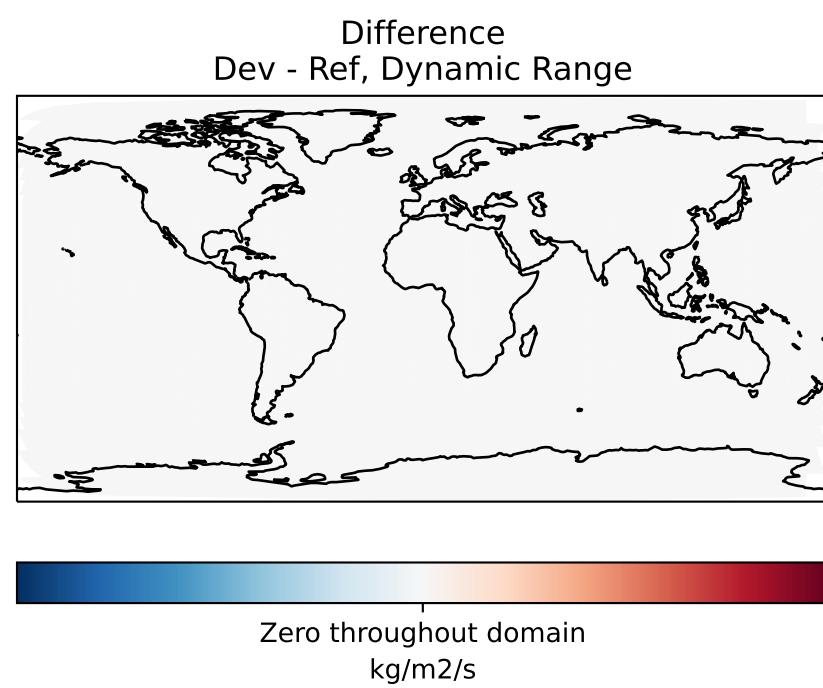
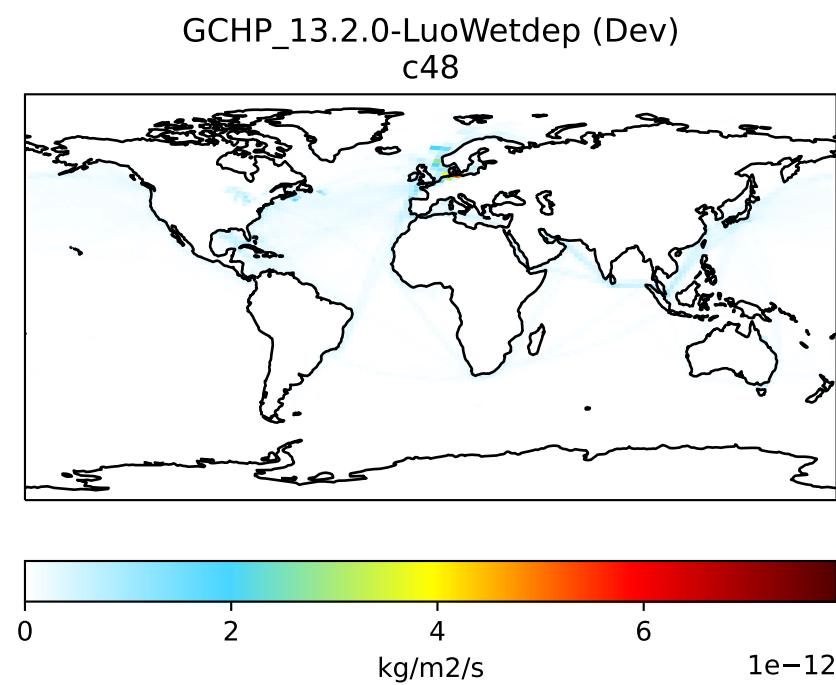
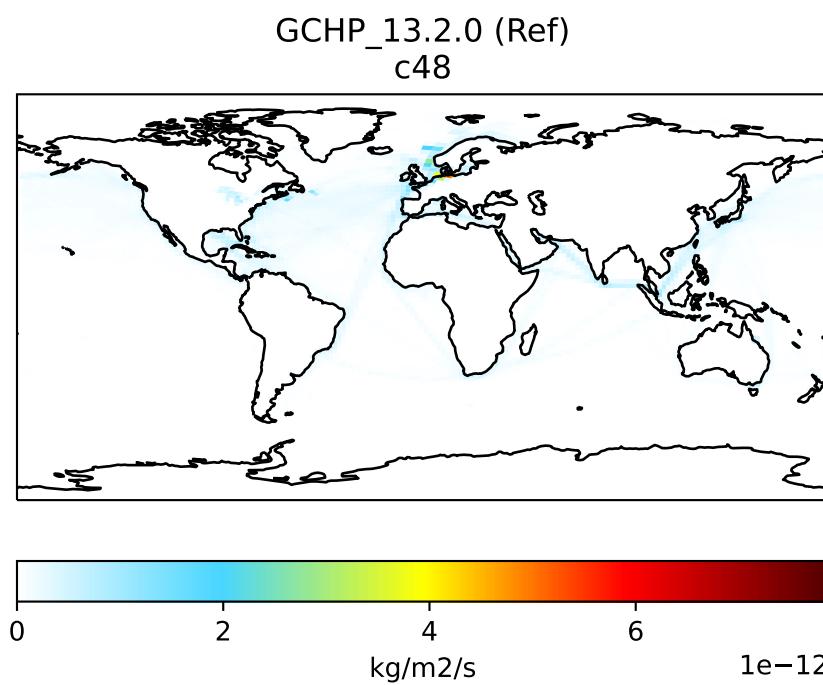
Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range



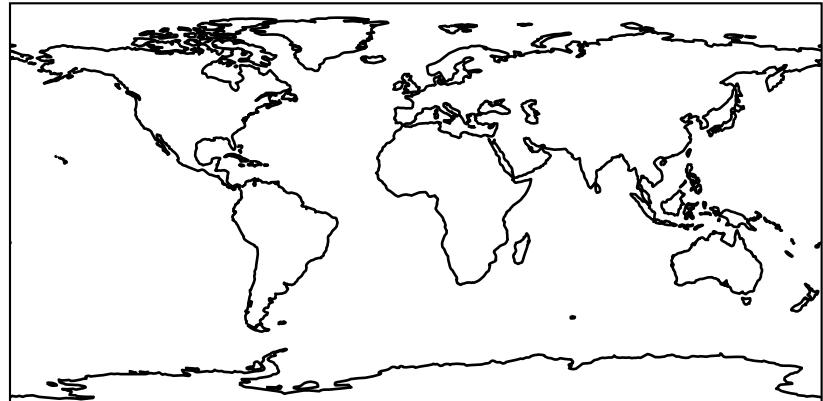
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unitless

# EmisCO\_Ship (Jul2019)



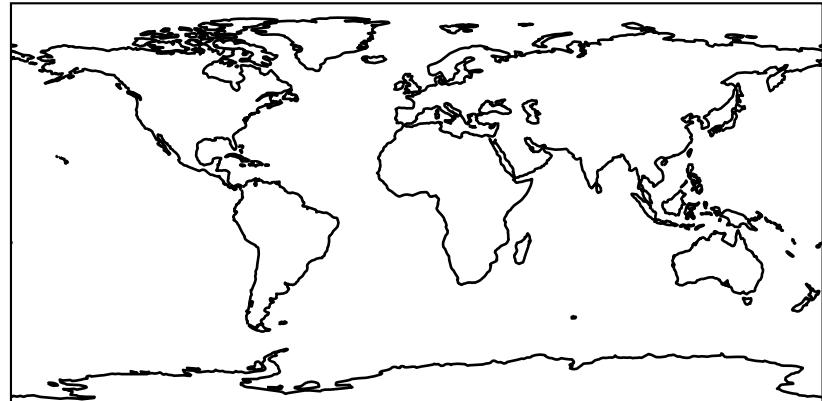
# EmisEOH\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



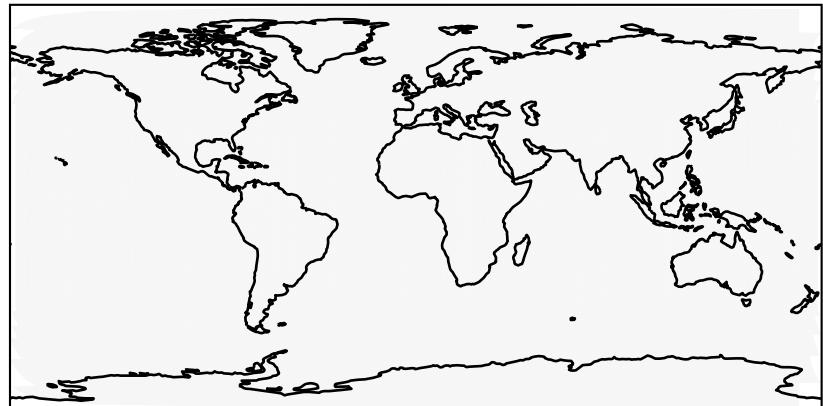
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



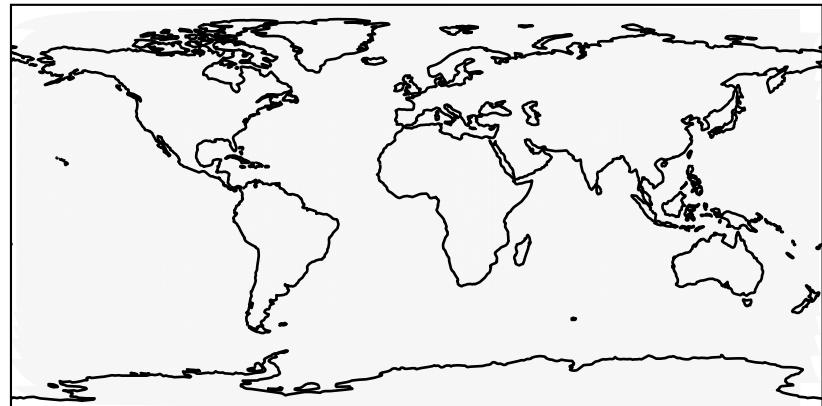
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



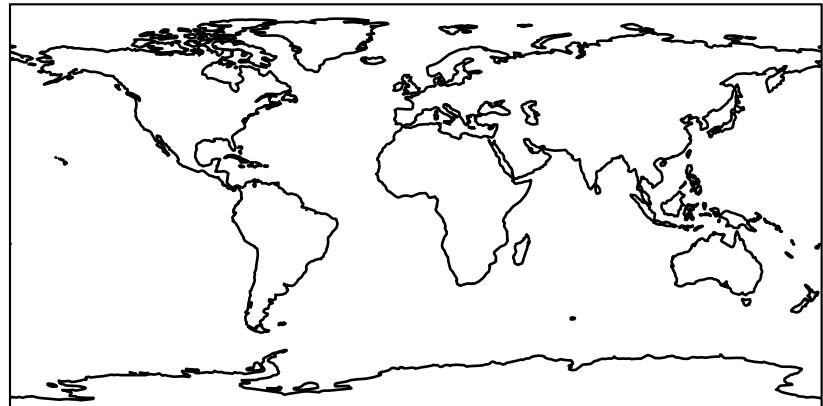
Zero throughout domain  
kg/m<sup>2</sup>/s

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



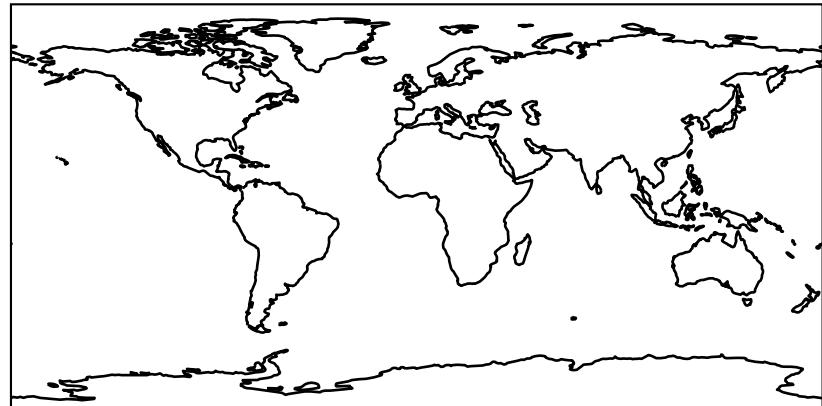
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

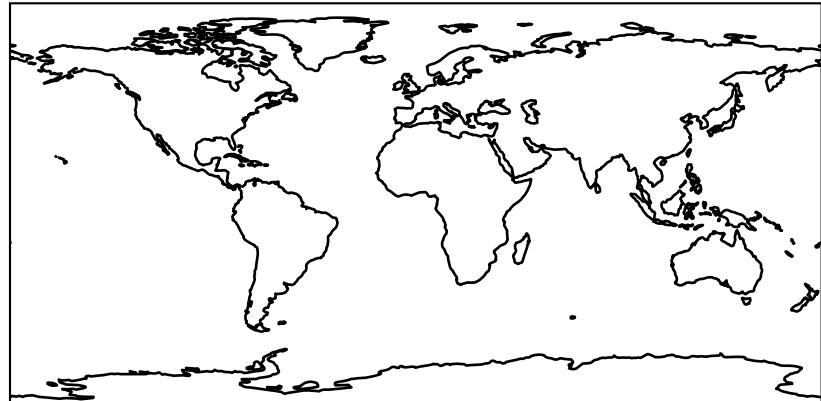
Ratio  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

# EmisHCOOH\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



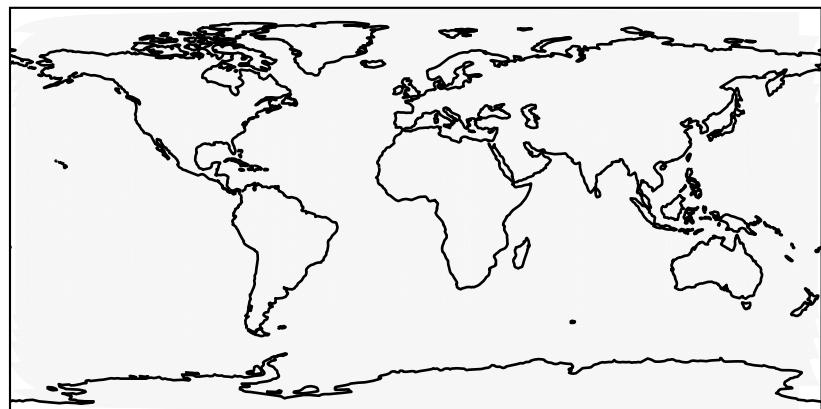
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



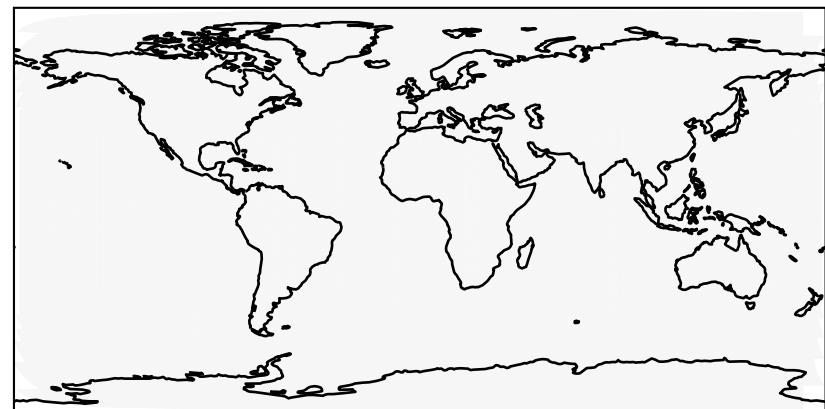
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



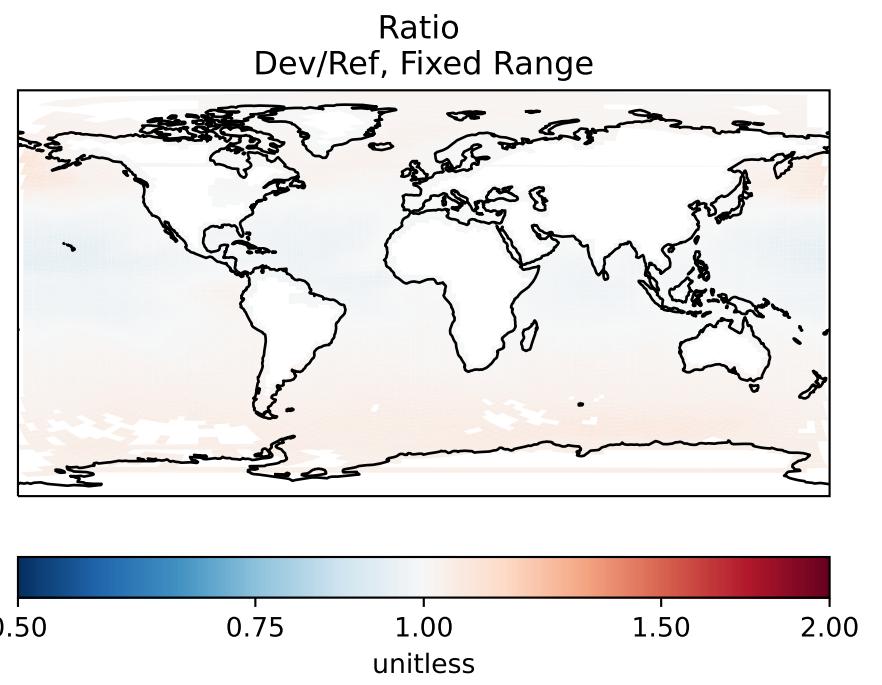
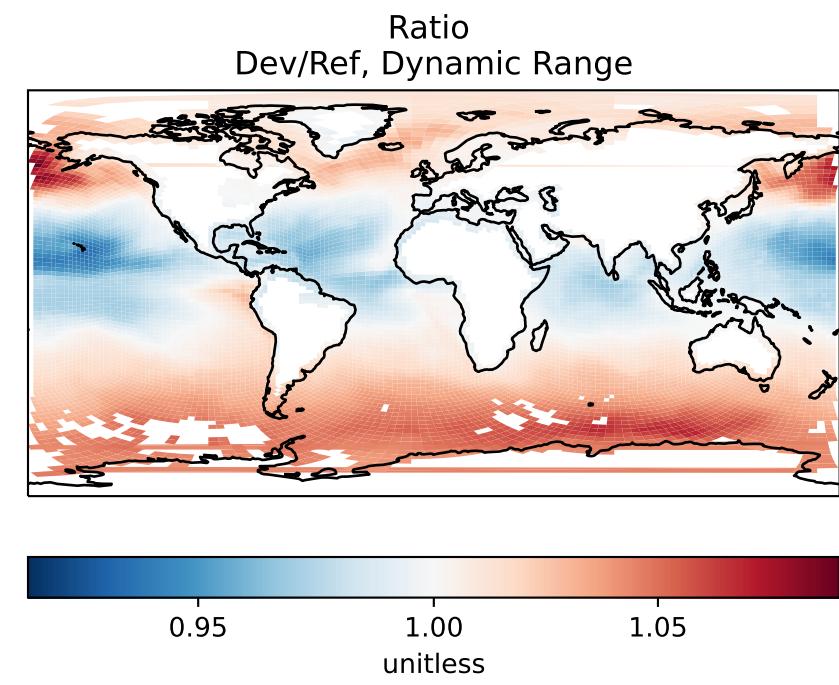
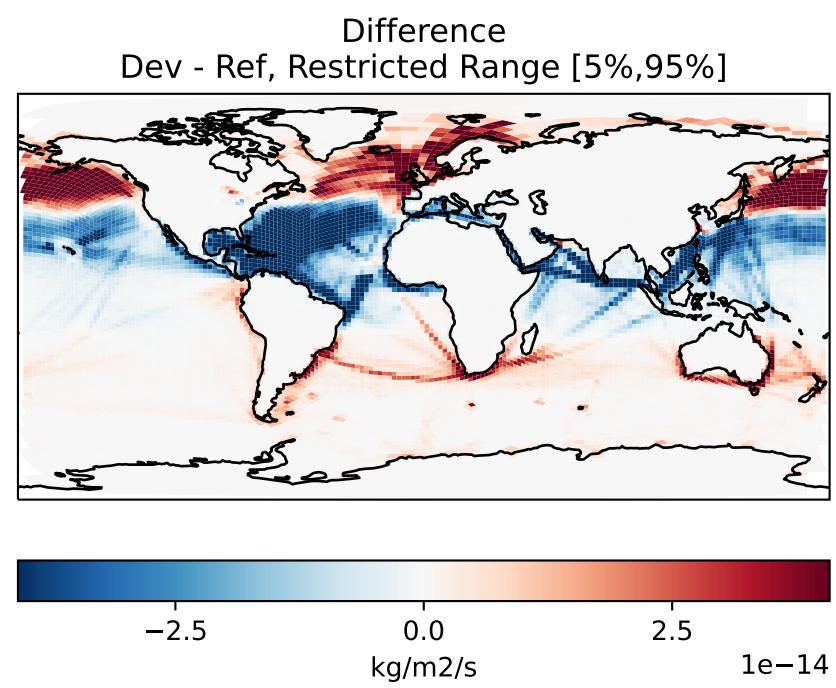
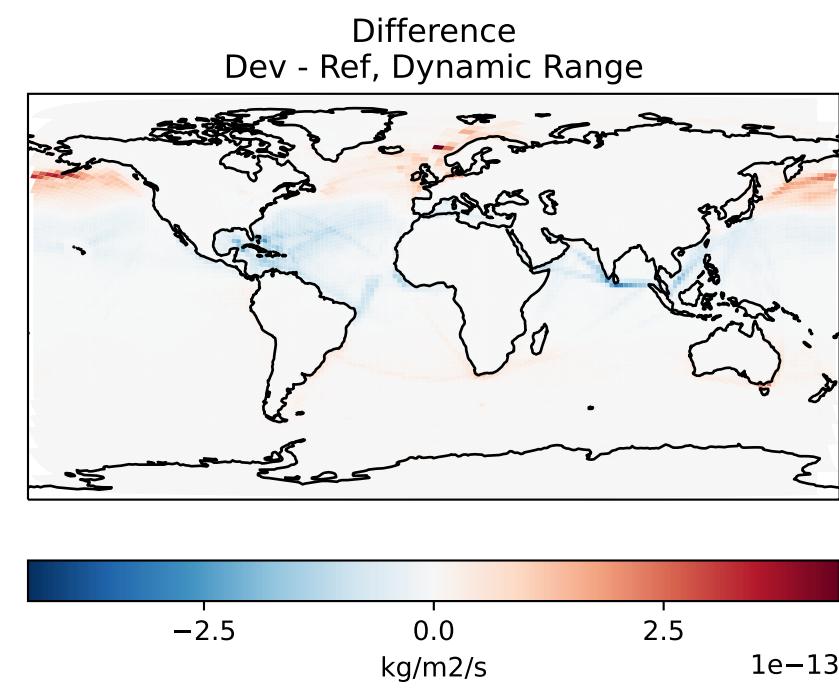
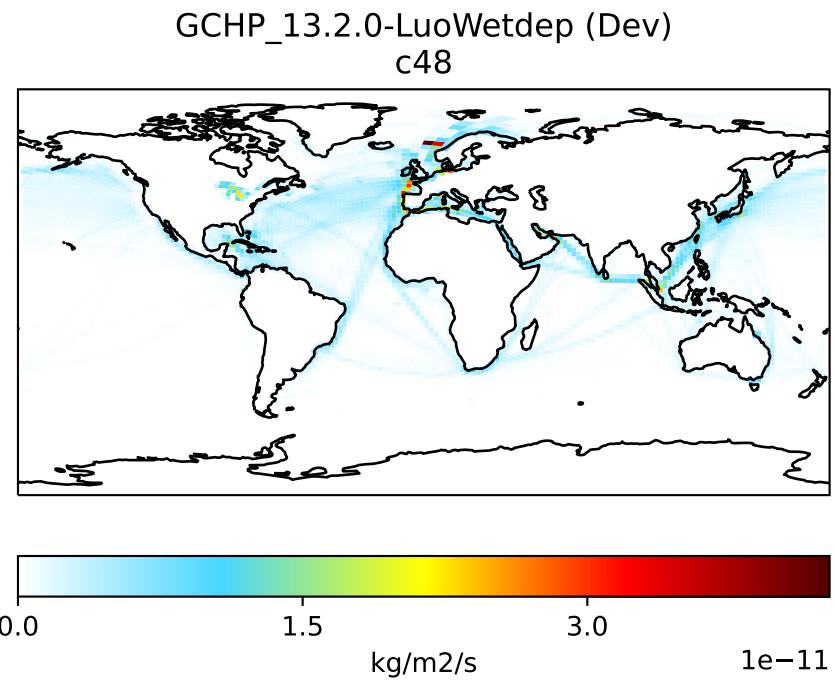
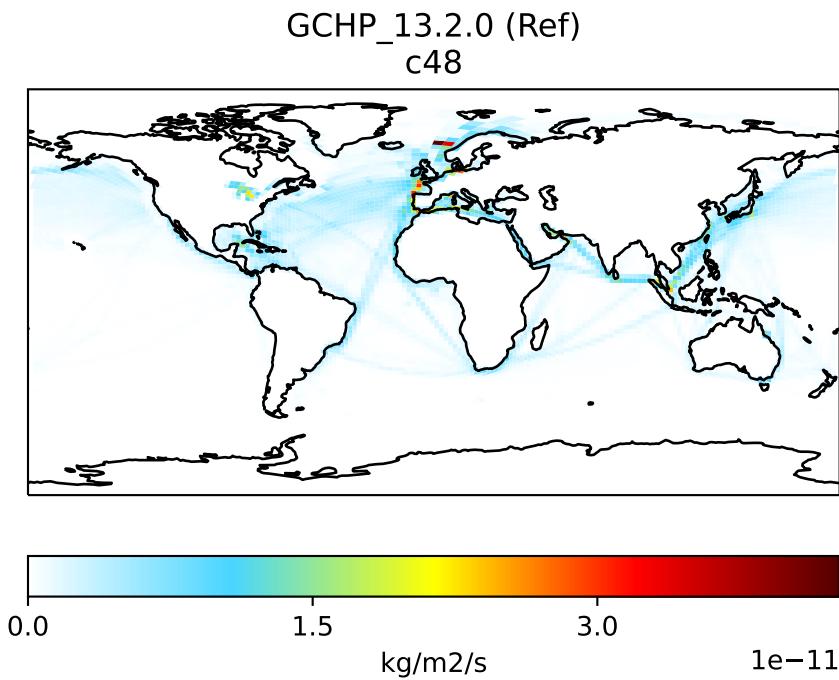
Undefined throughout domain  
unitless

Ratio  
Dev/Ref, Fixed Range



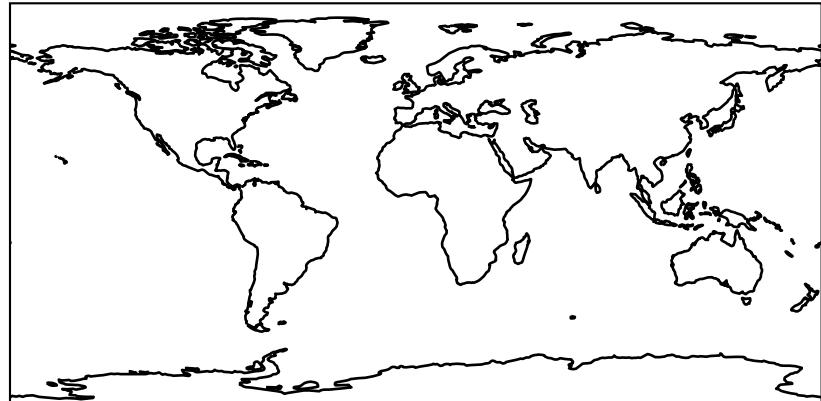
Undefined throughout domain  
unitless

# EmisHNO3\_Ship (Jul2019)



# EmisMEK\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



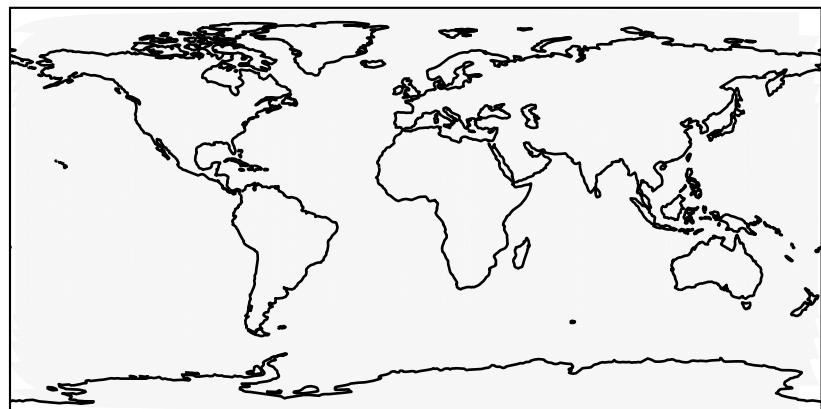
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



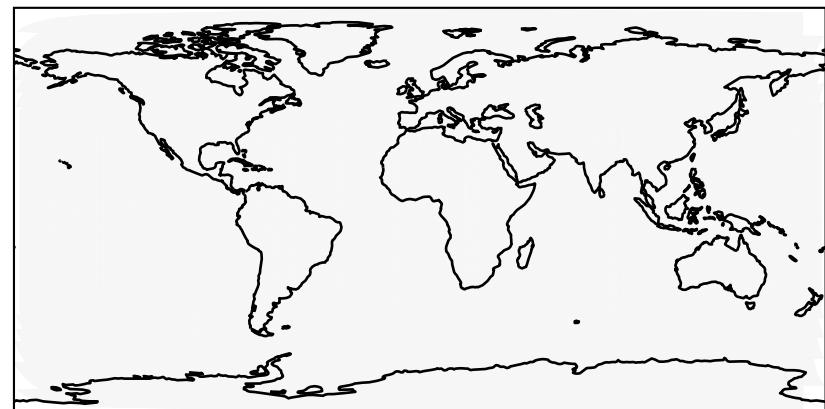
Zero throughout domain  
kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



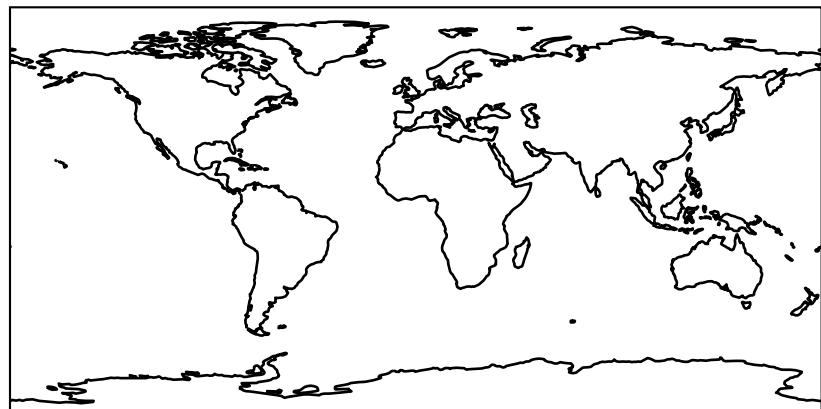
Zero throughout domain  
kg/m<sup>2</sup>/s

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



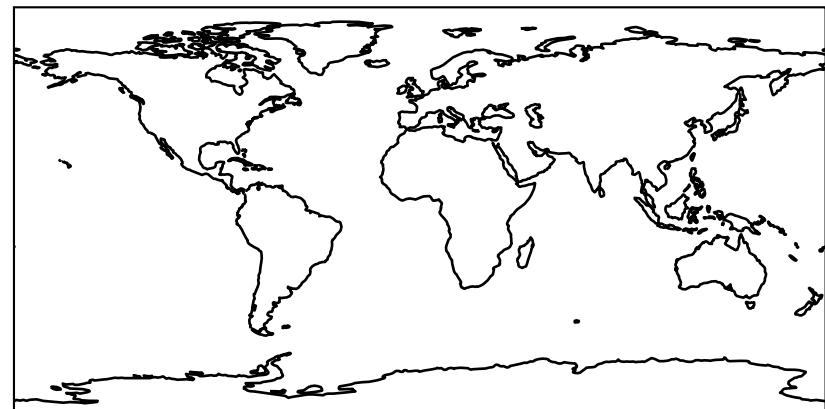
Zero throughout domain  
kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

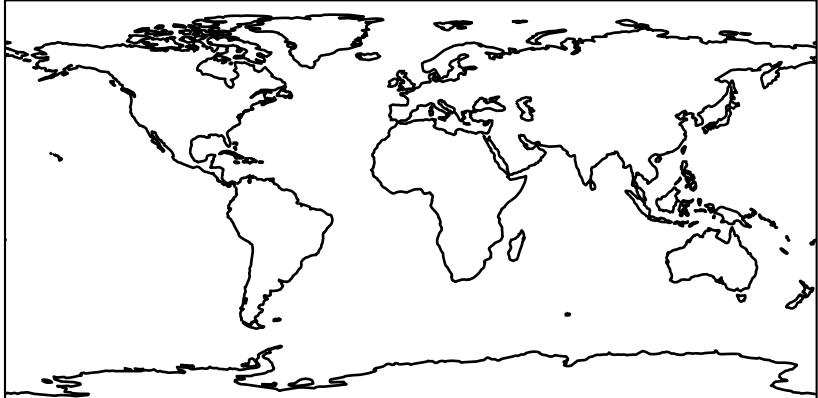
Ratio  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

# EmisMOH\_Ship (Jul2019)

GCHP\_13.2.0 (Ref)  
c48



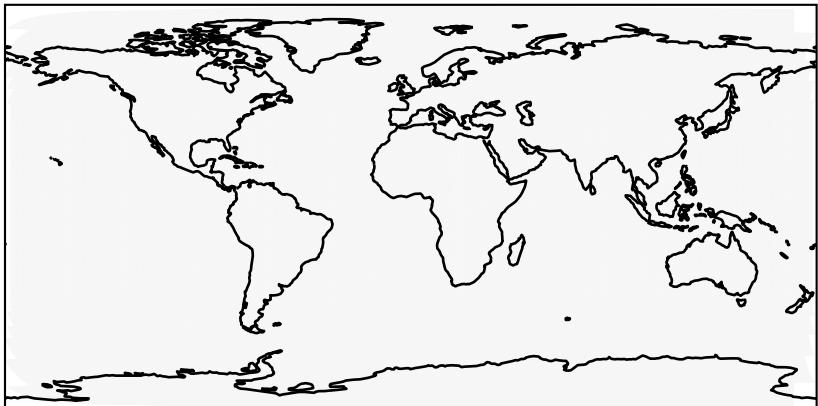
Zero throughout domain  
kg/m<sup>2</sup>/s

GCHP\_13.2.0-LuoWetdep (Dev)  
c48



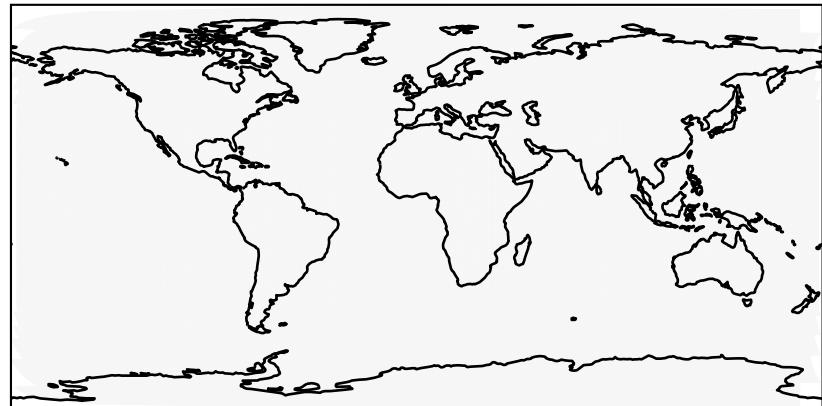
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kg/m<sup>2</sup>/s

Difference  
Dev - Ref, Dynamic Range



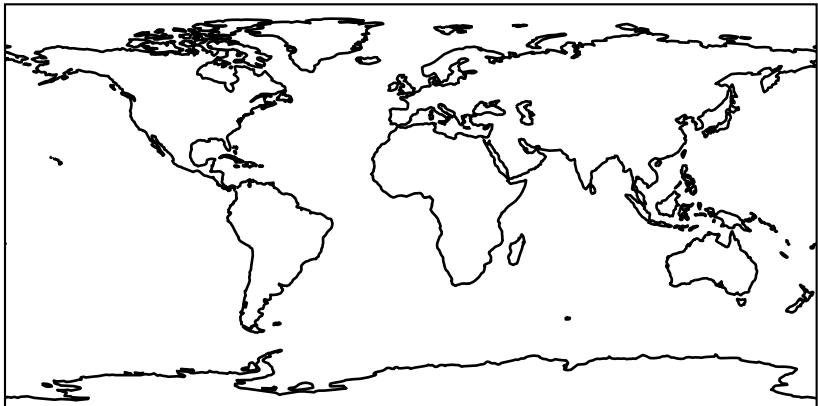
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kg/m<sup>2</sup>/s

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



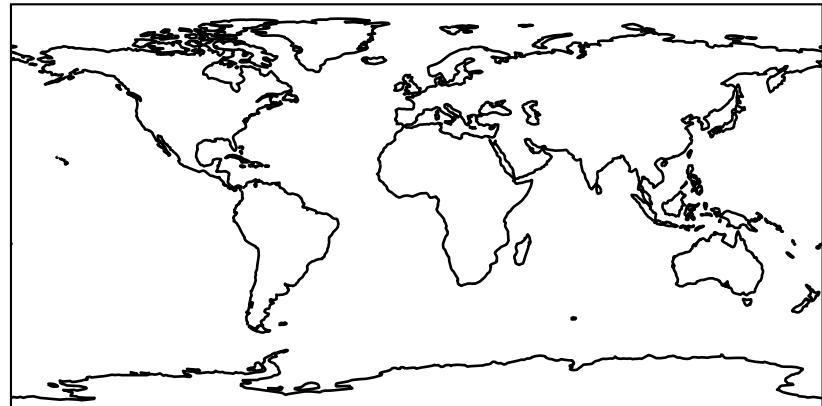
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kg/m<sup>2</sup>/s

Ratio  
Dev/Ref, Dynamic Range



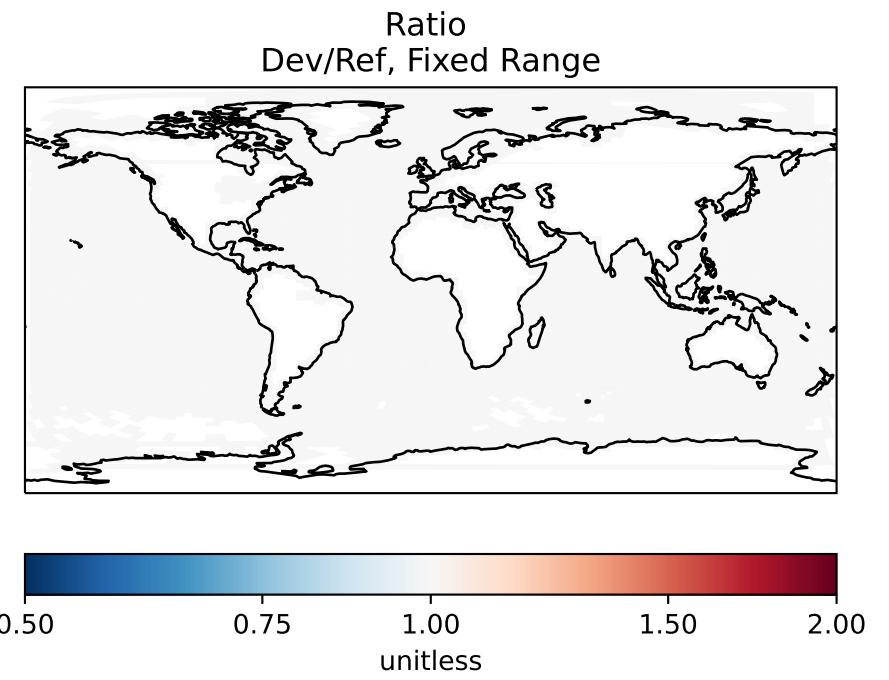
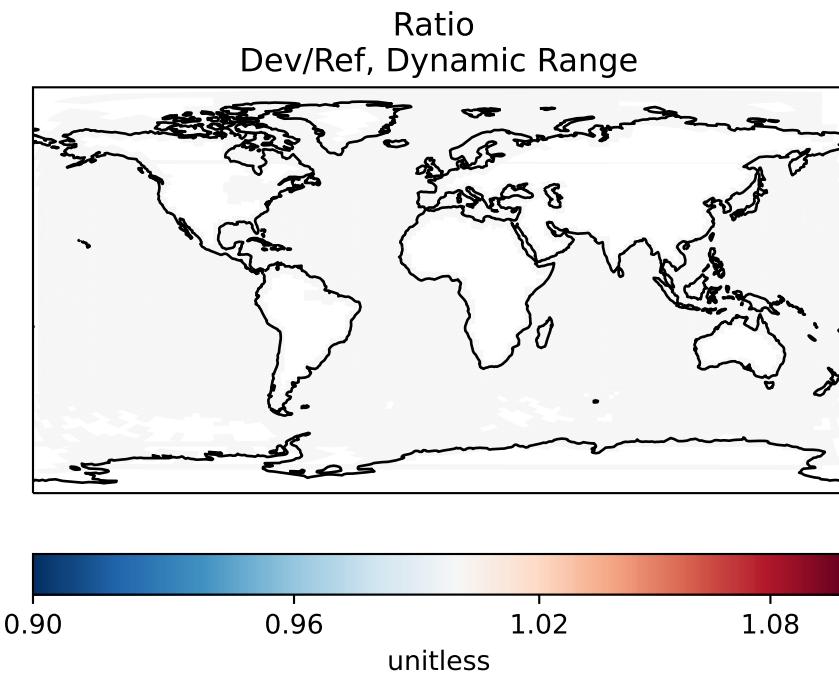
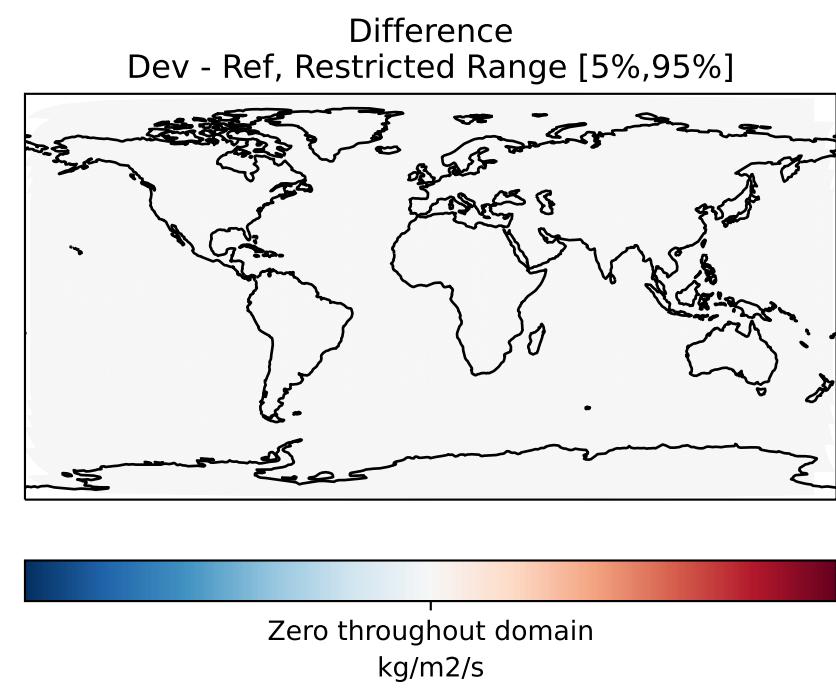
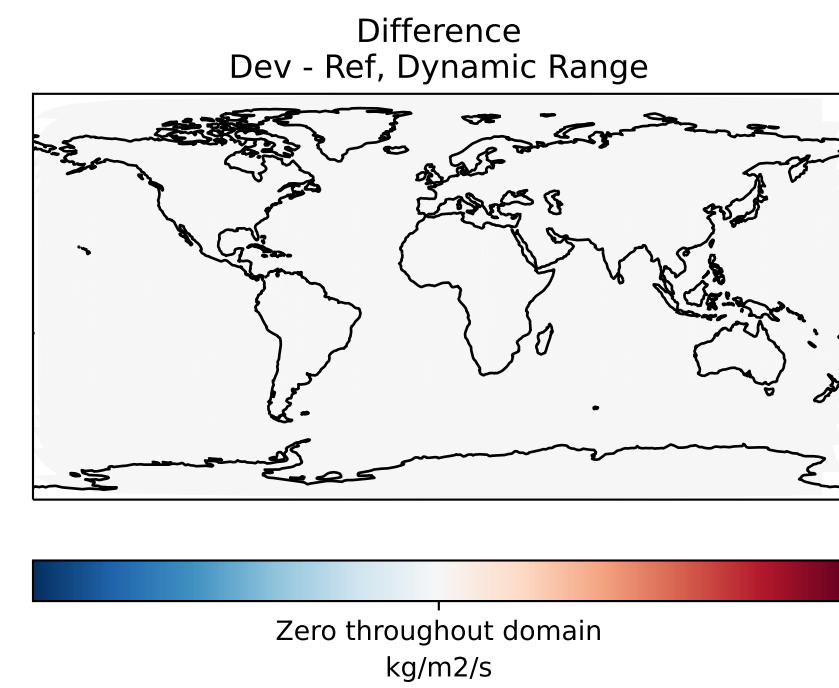
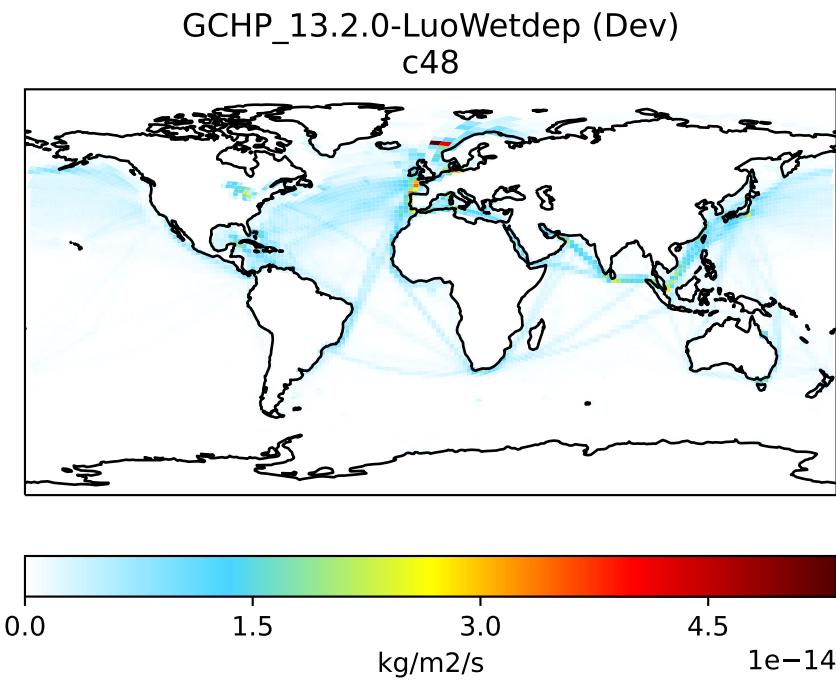
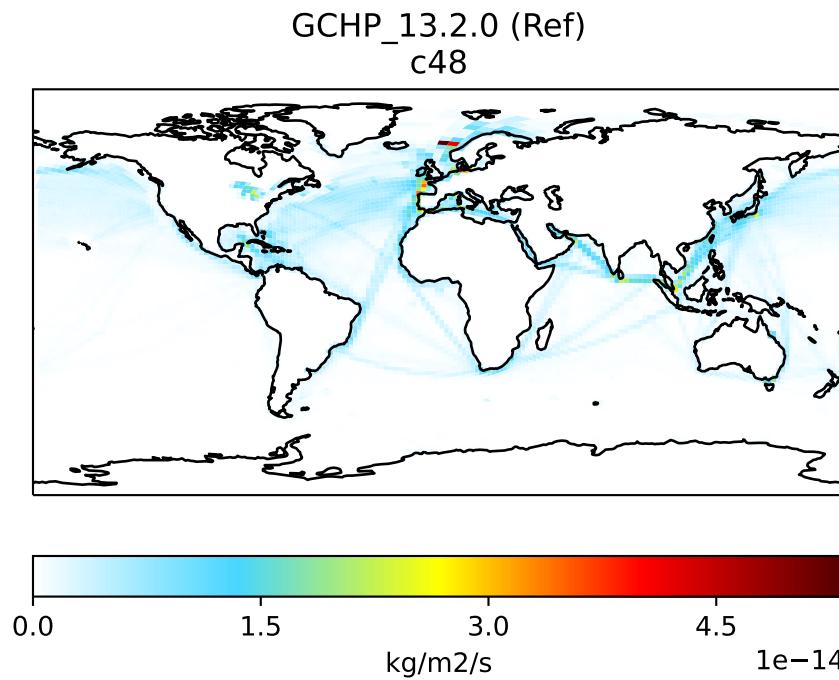
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Ratio  
Dev/Ref, Fixed Range

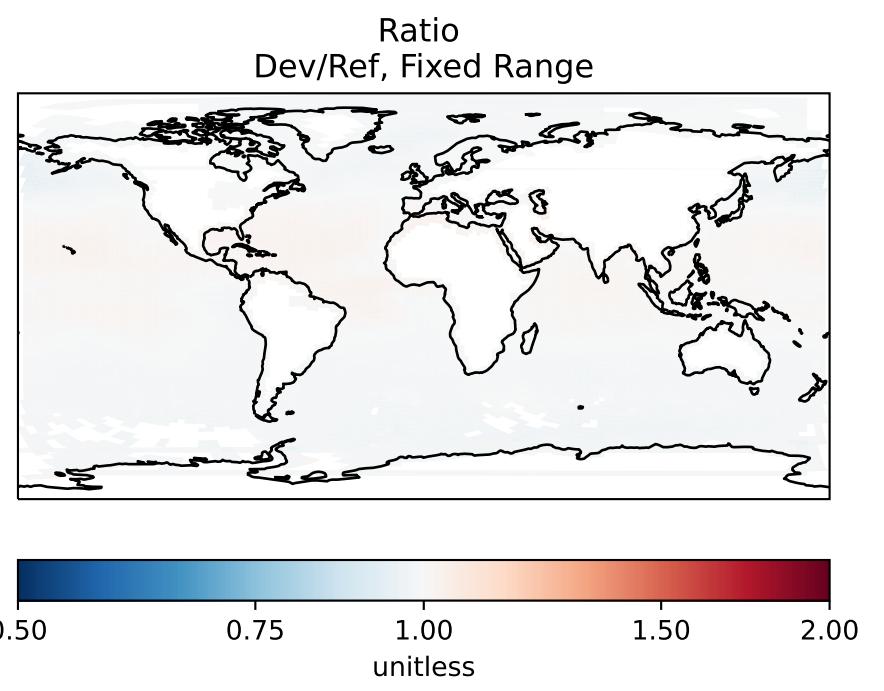
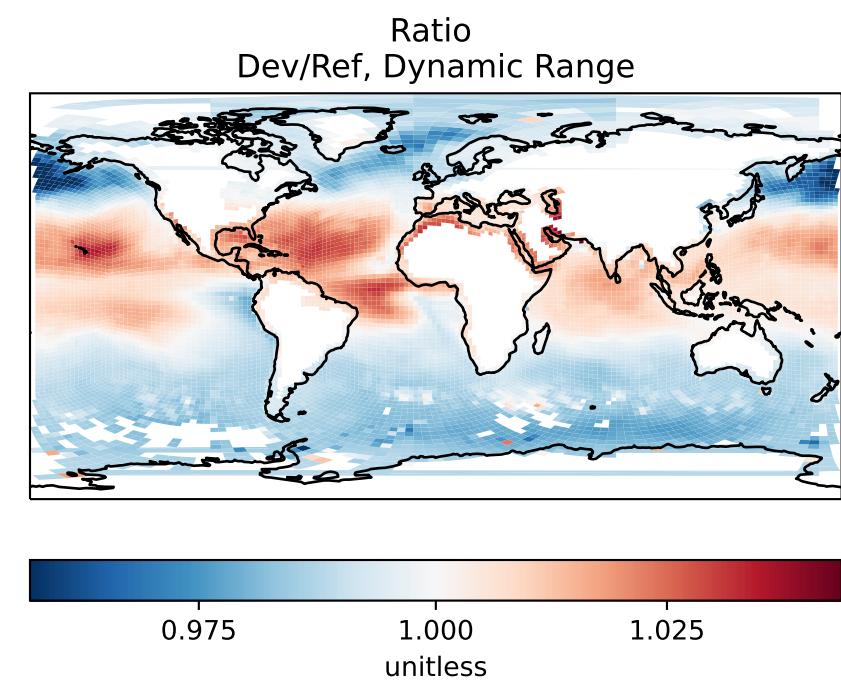
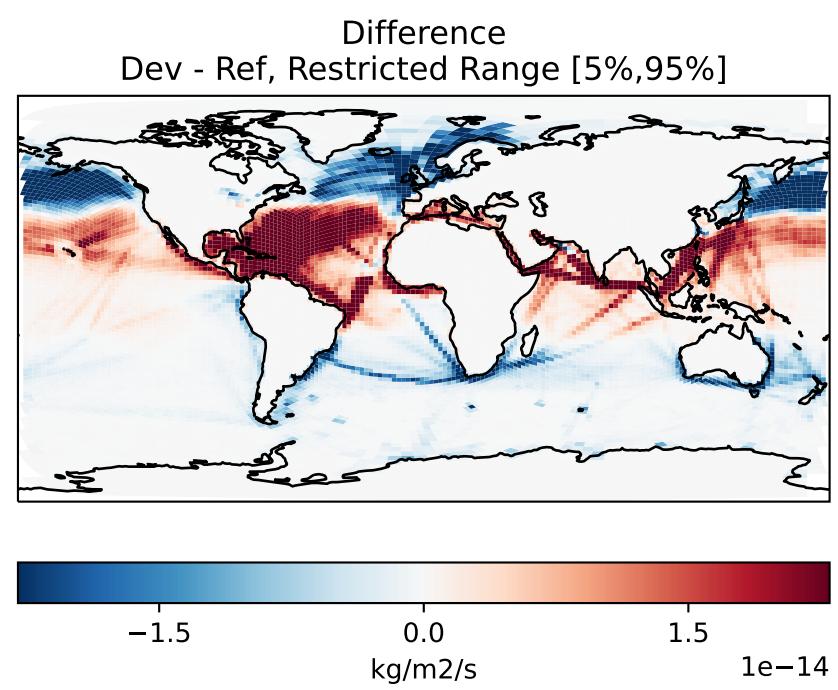
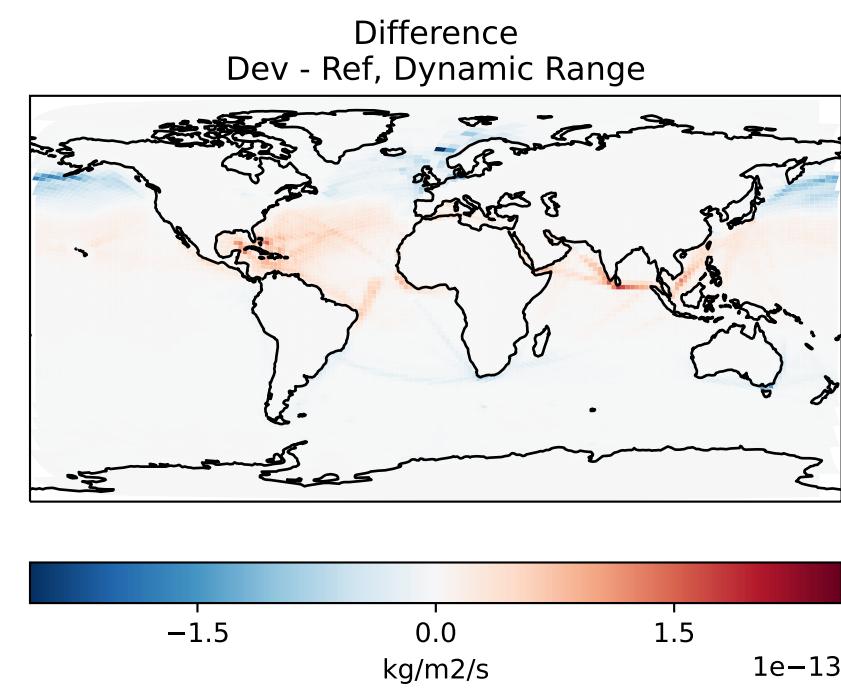
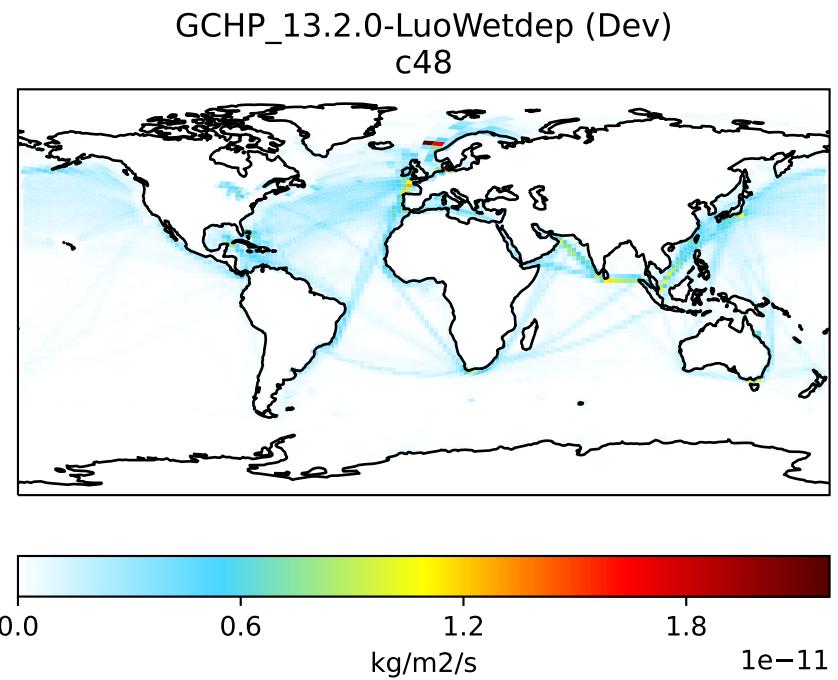
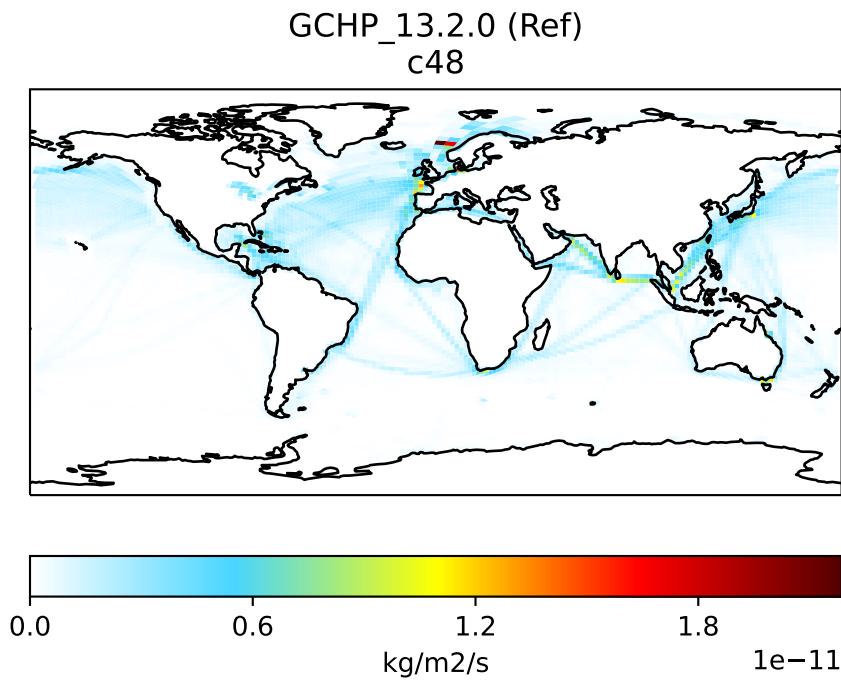


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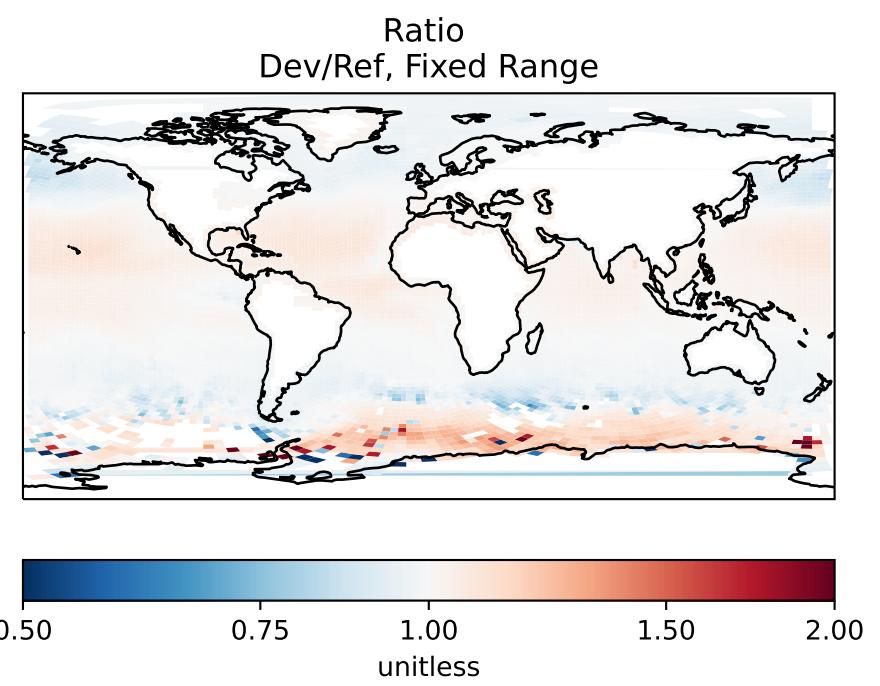
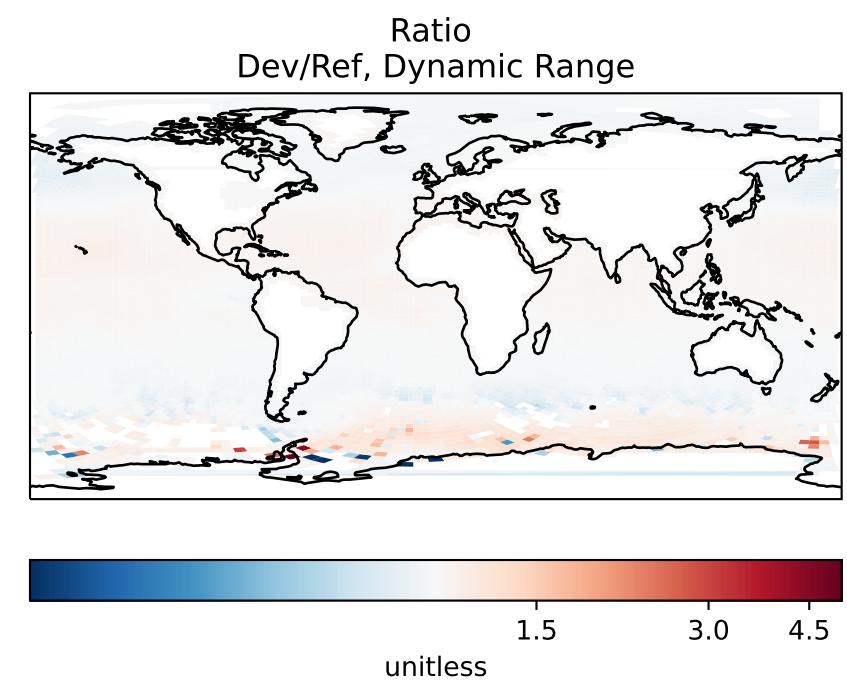
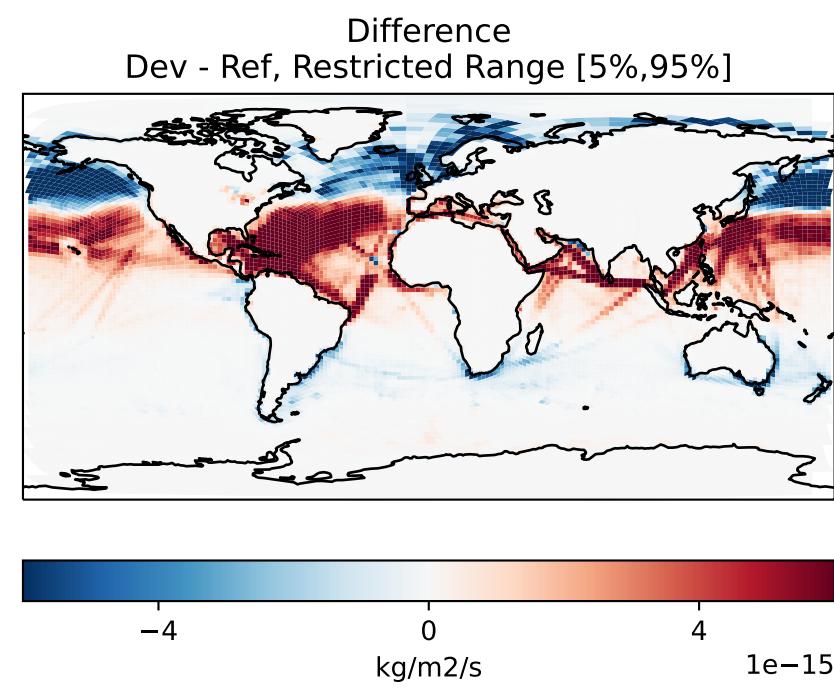
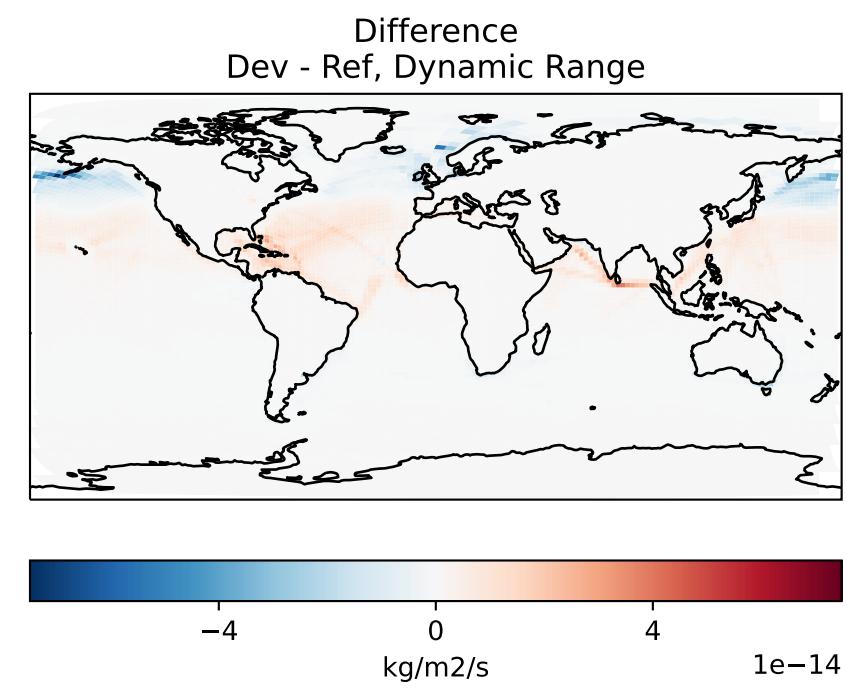
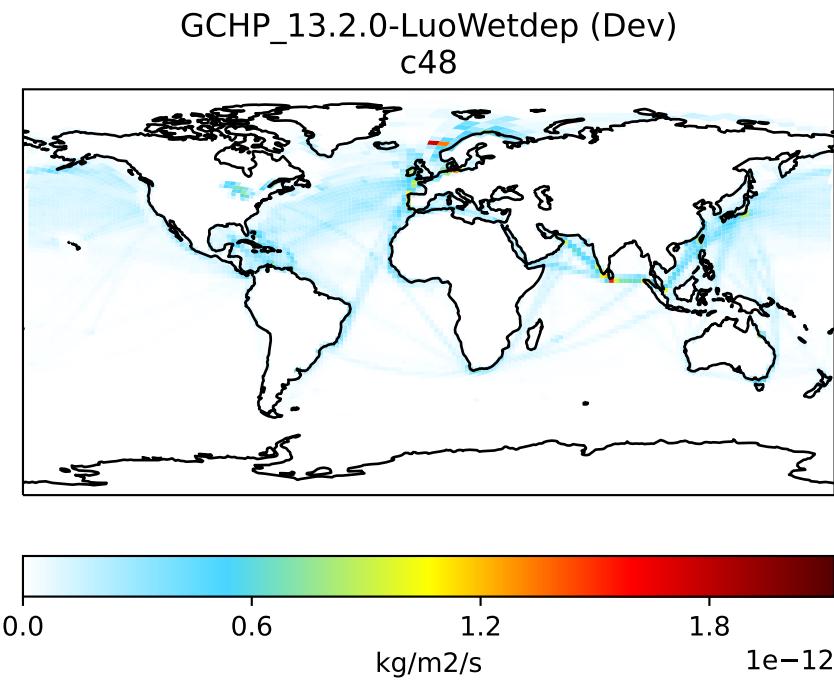
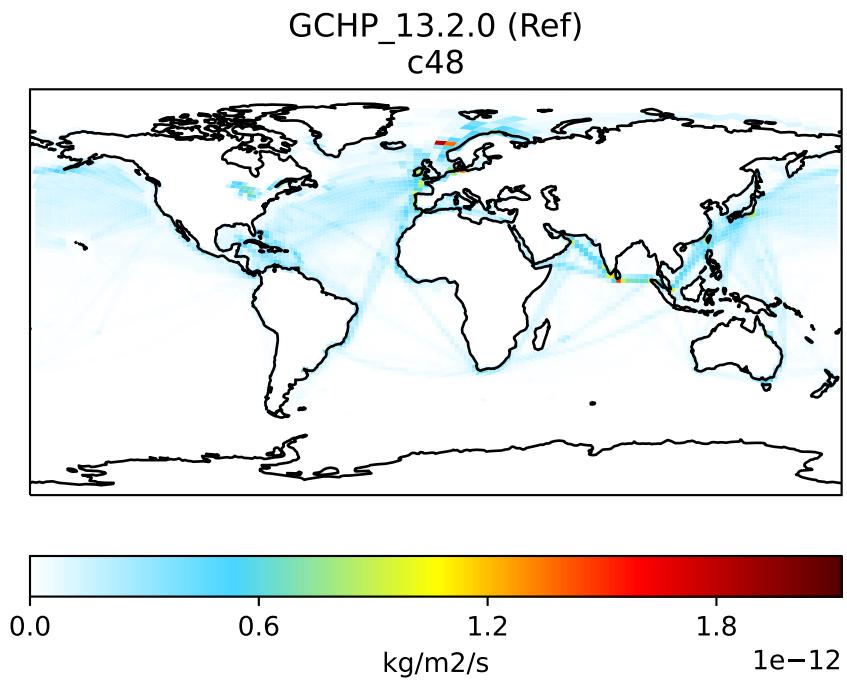
# EmisNH3\_Ship (Jul2019)



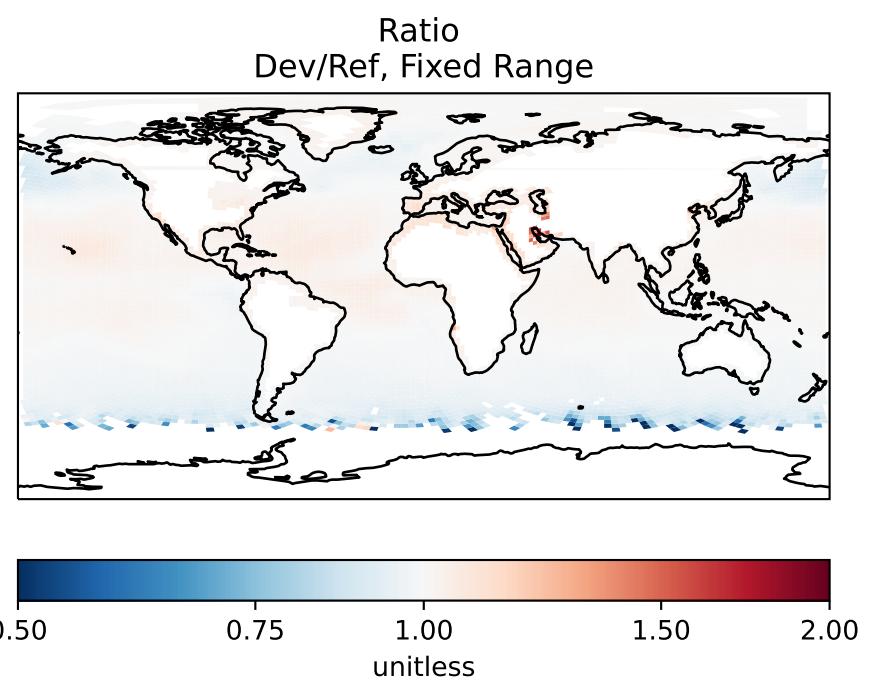
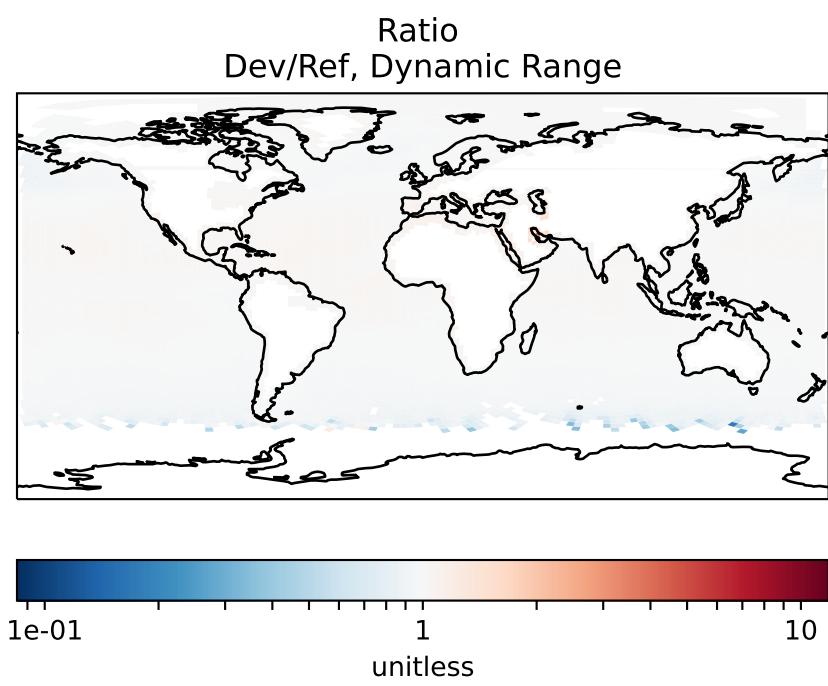
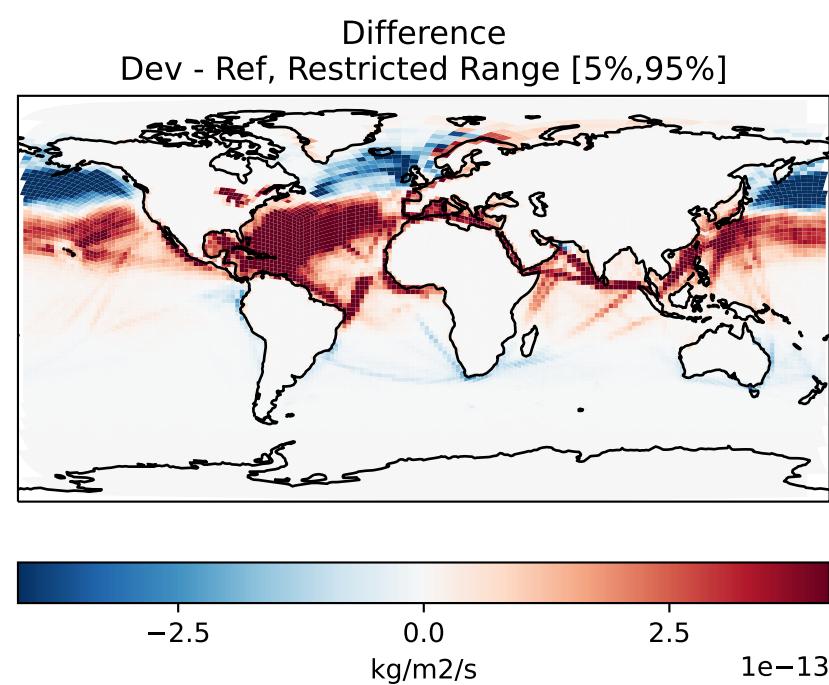
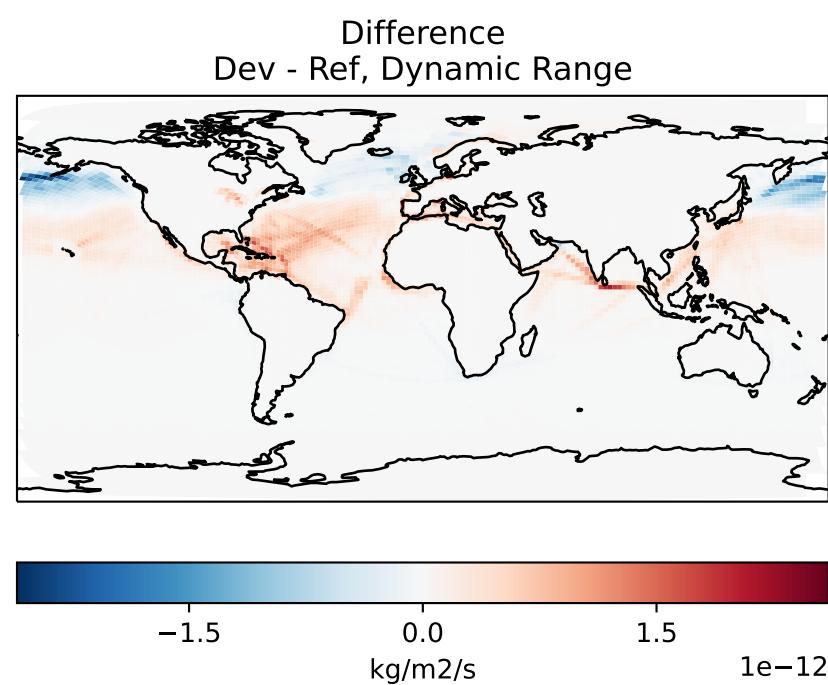
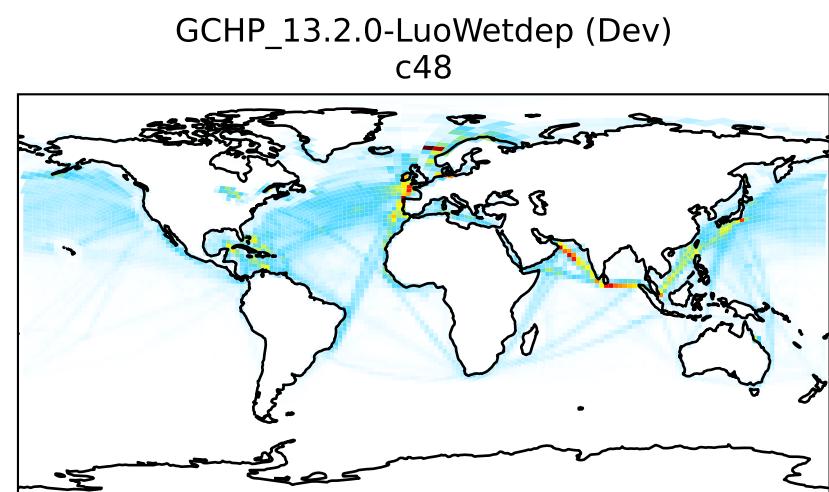
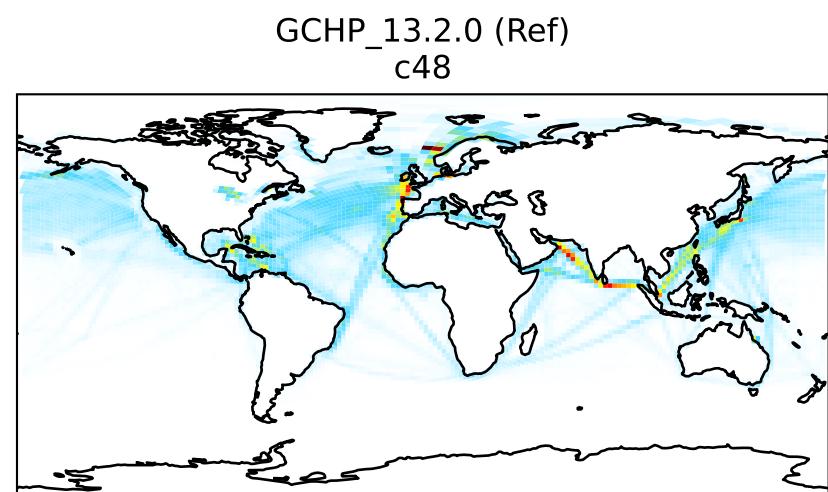
# EmisNO2\_Ship (Jul2019)



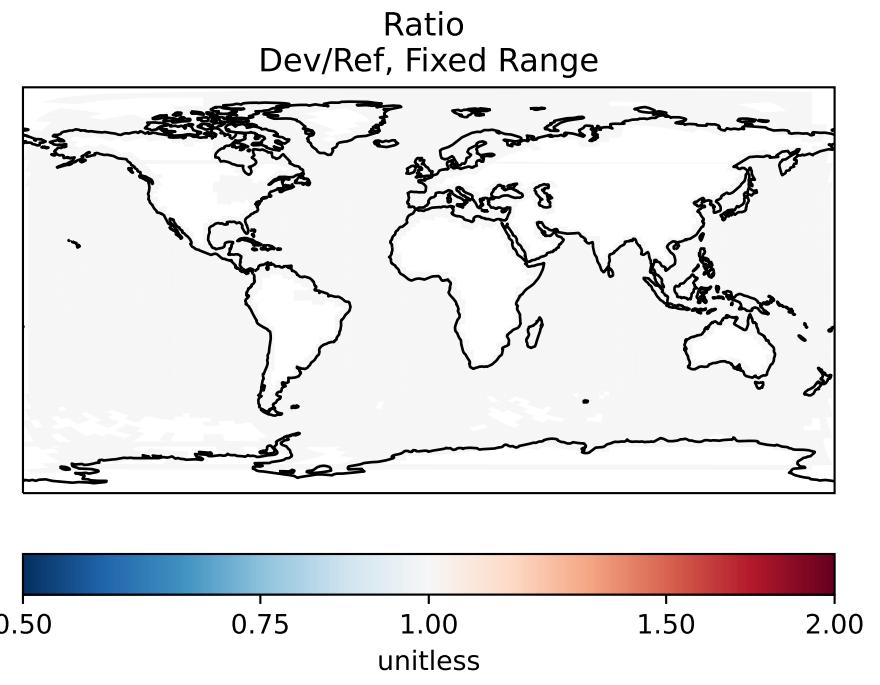
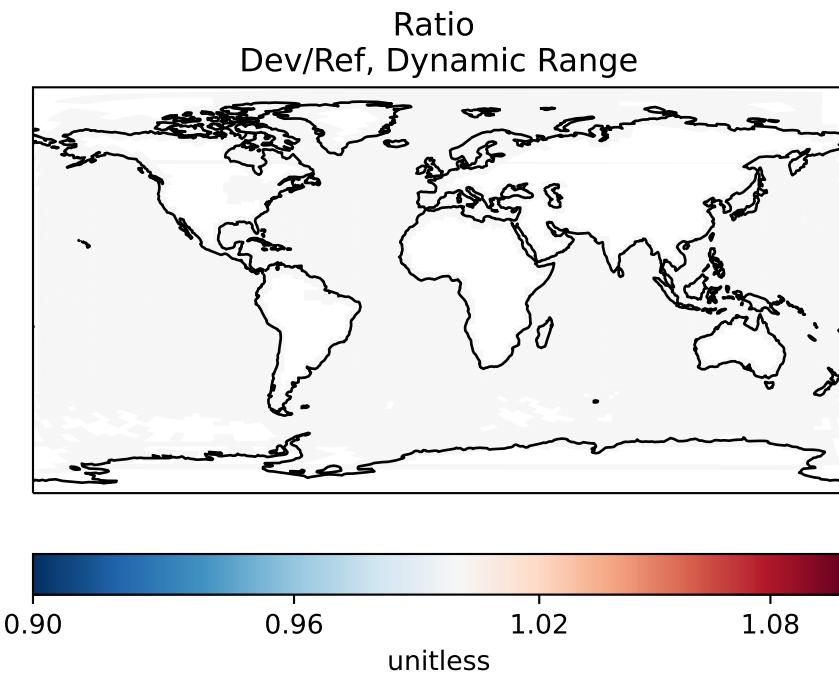
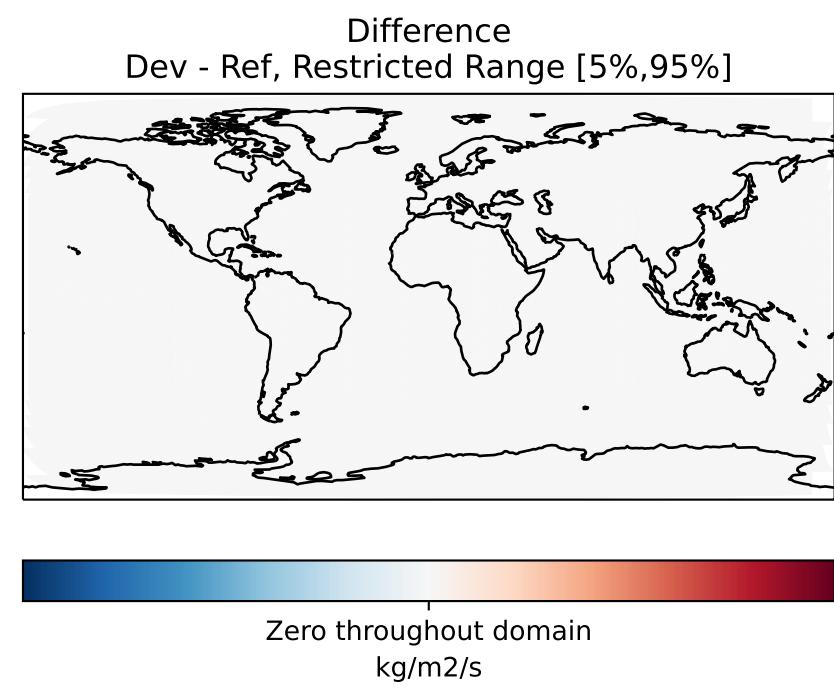
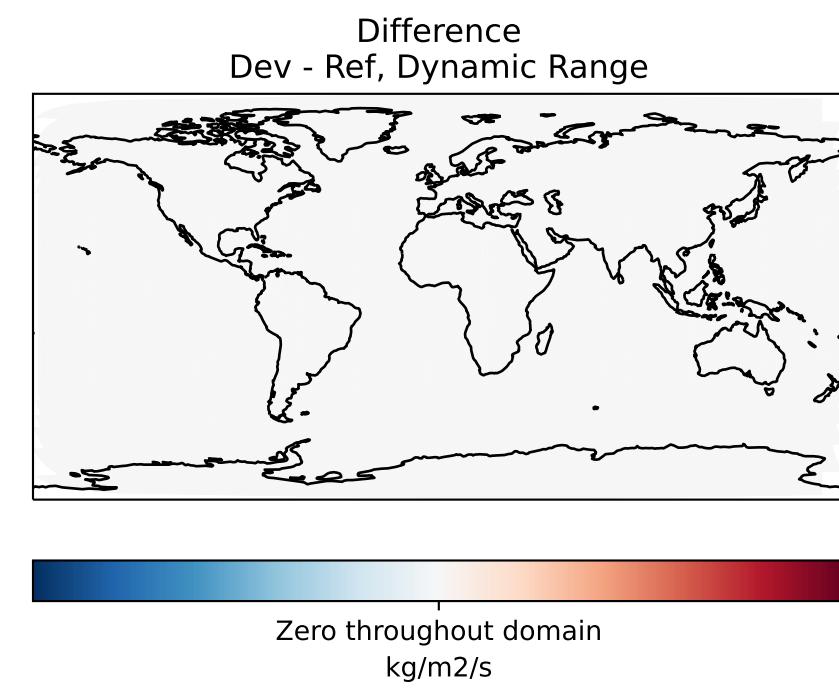
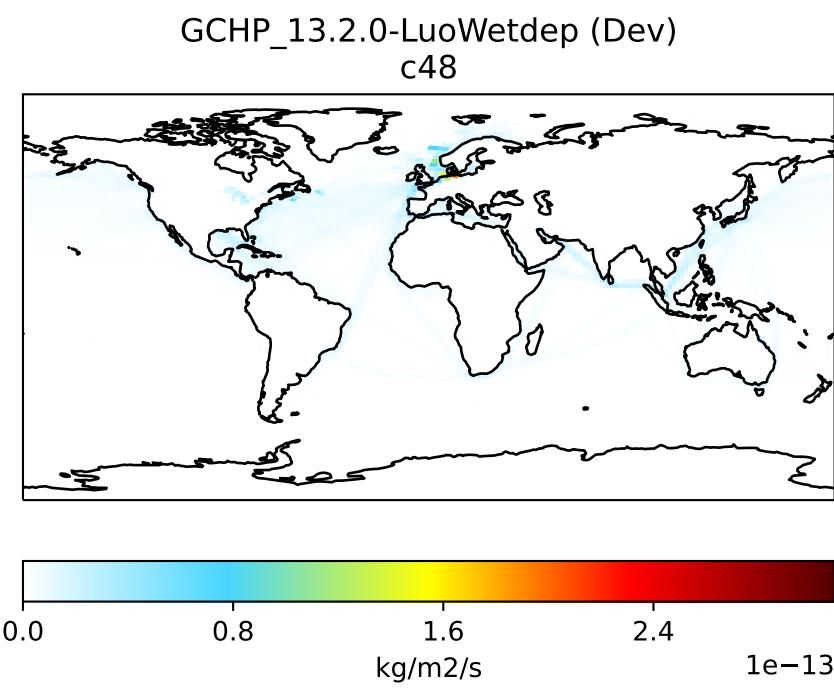
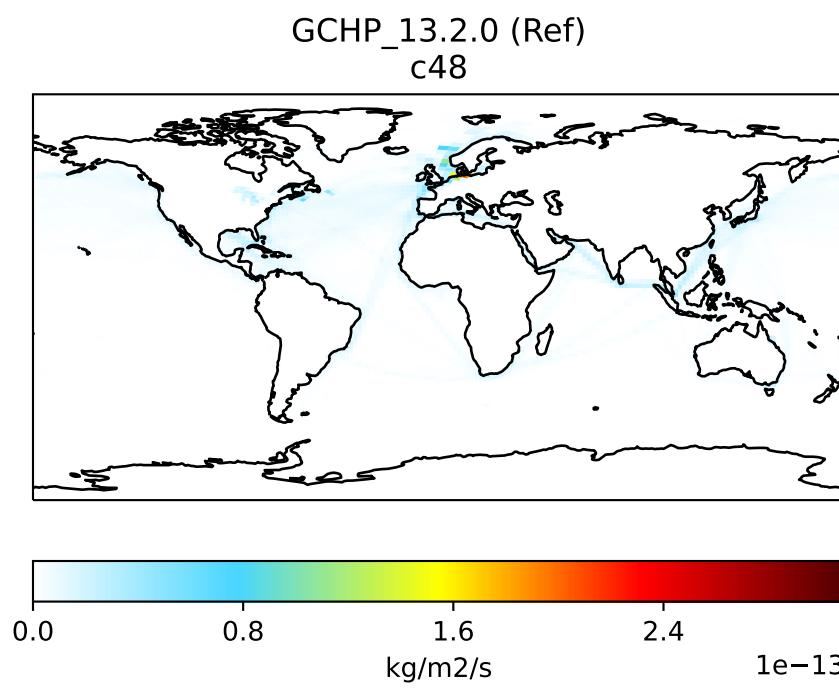
# EmisNO\_Ship (Jul2019)



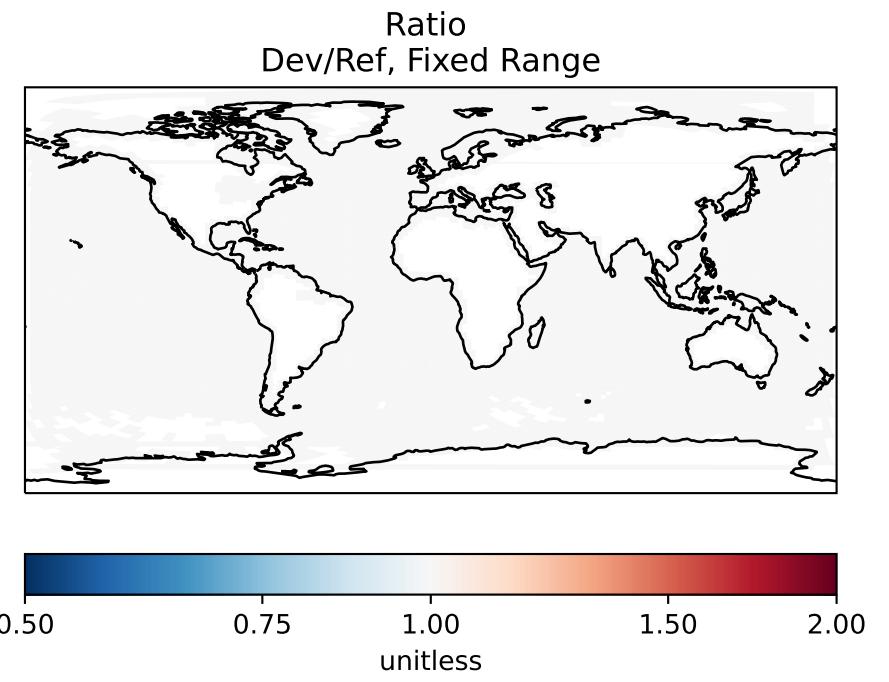
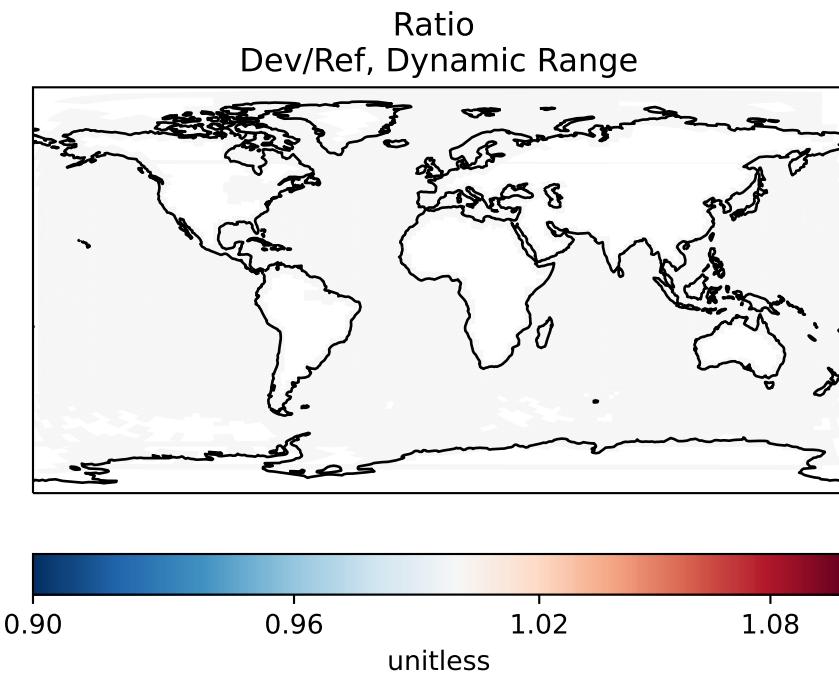
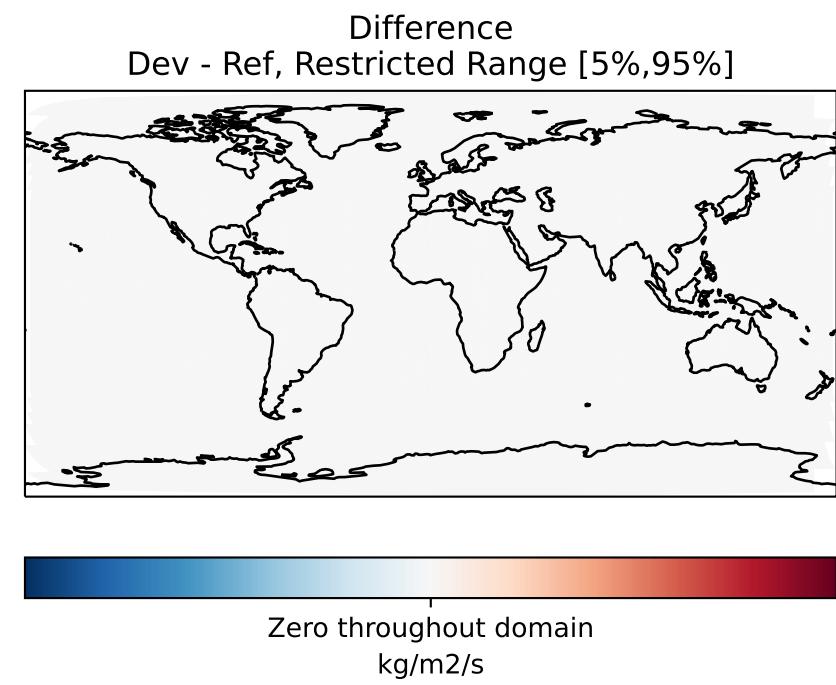
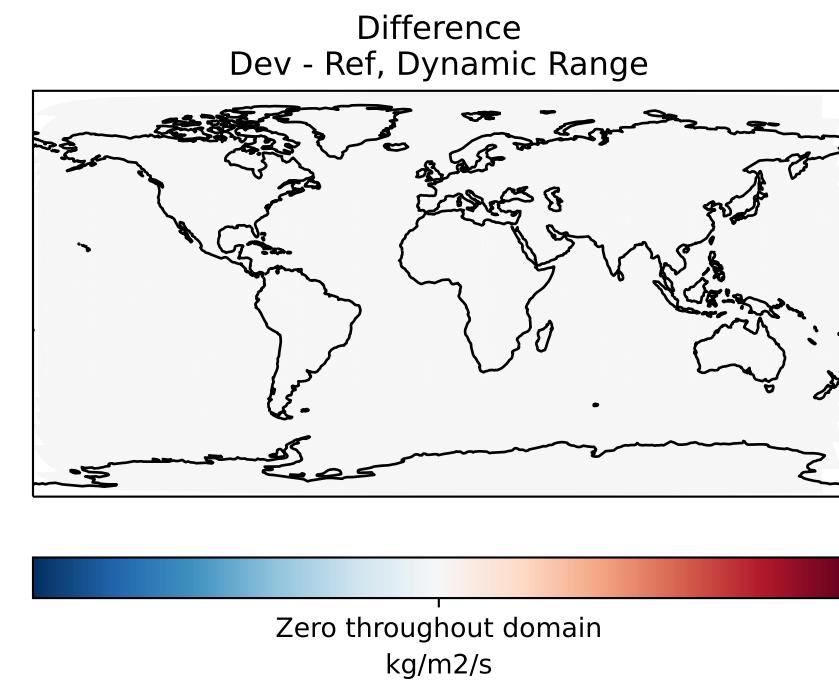
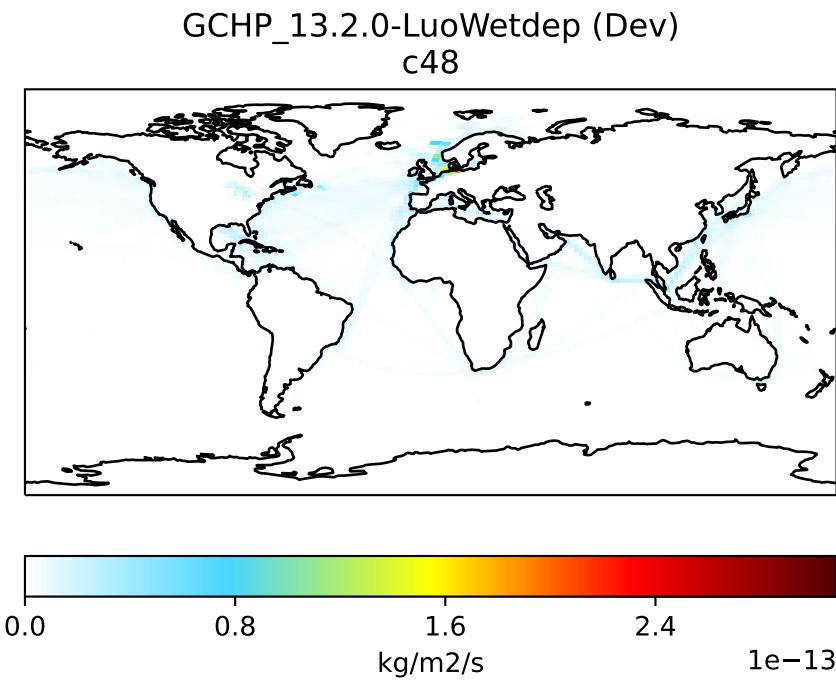
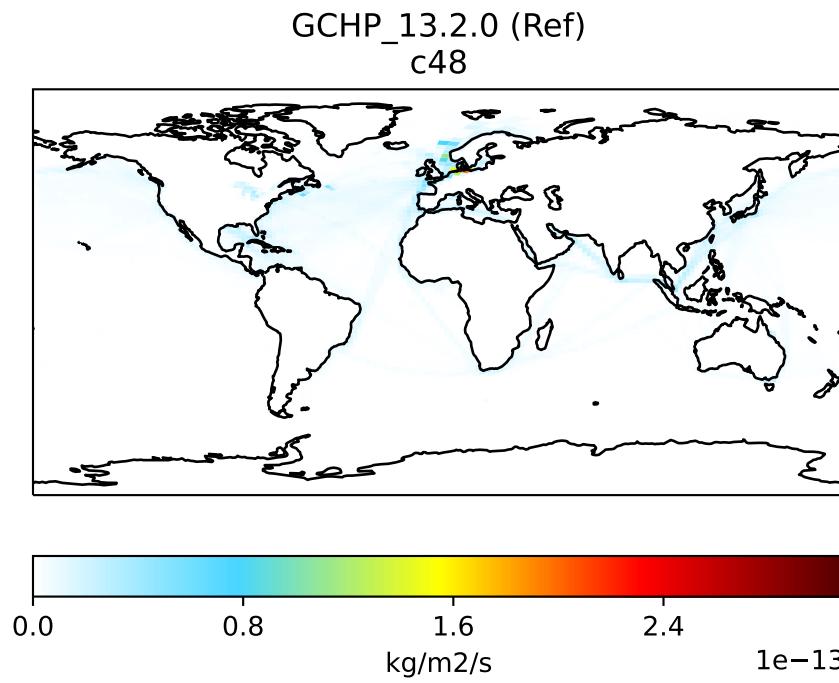
# EmisO3\_Ship (Jul2019)



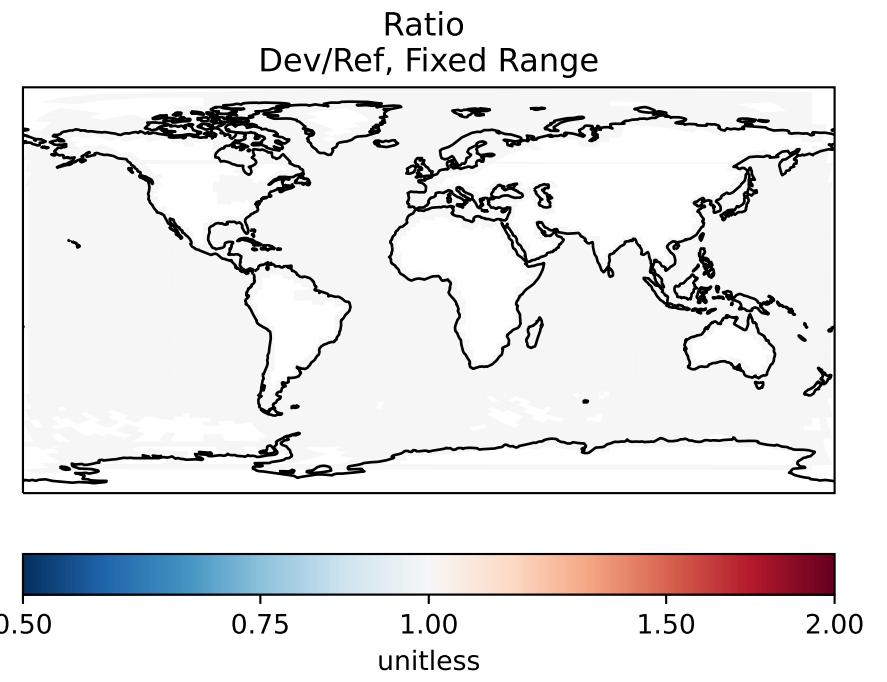
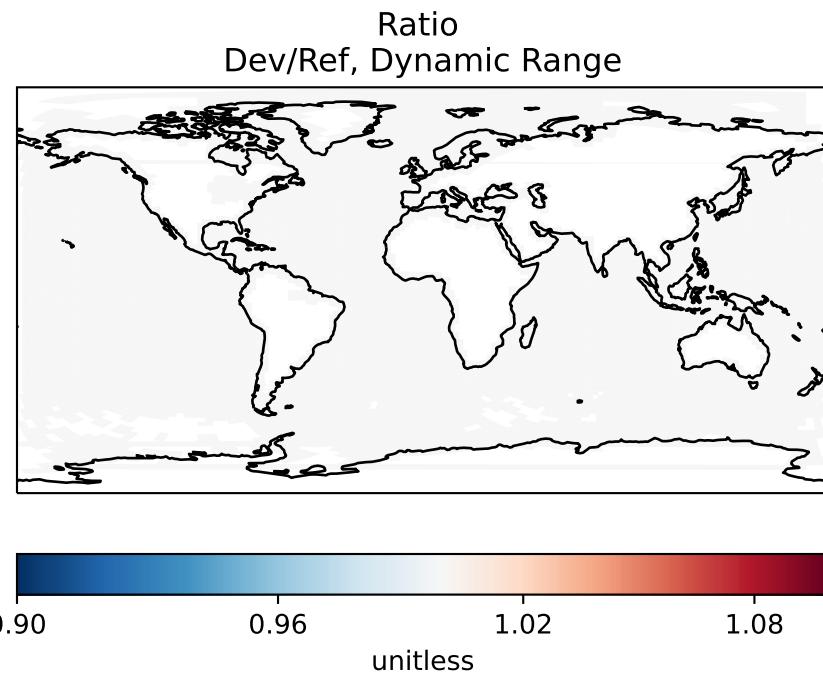
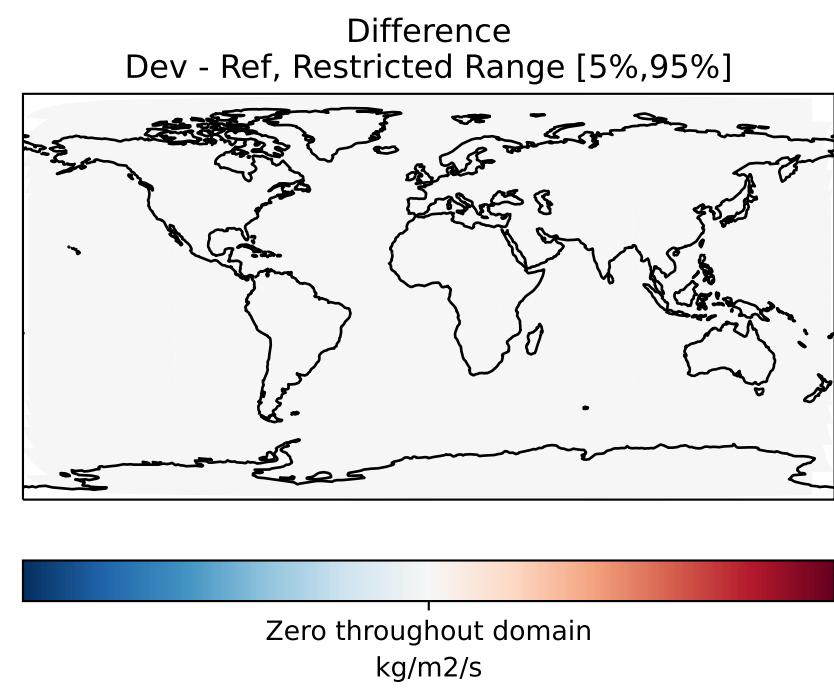
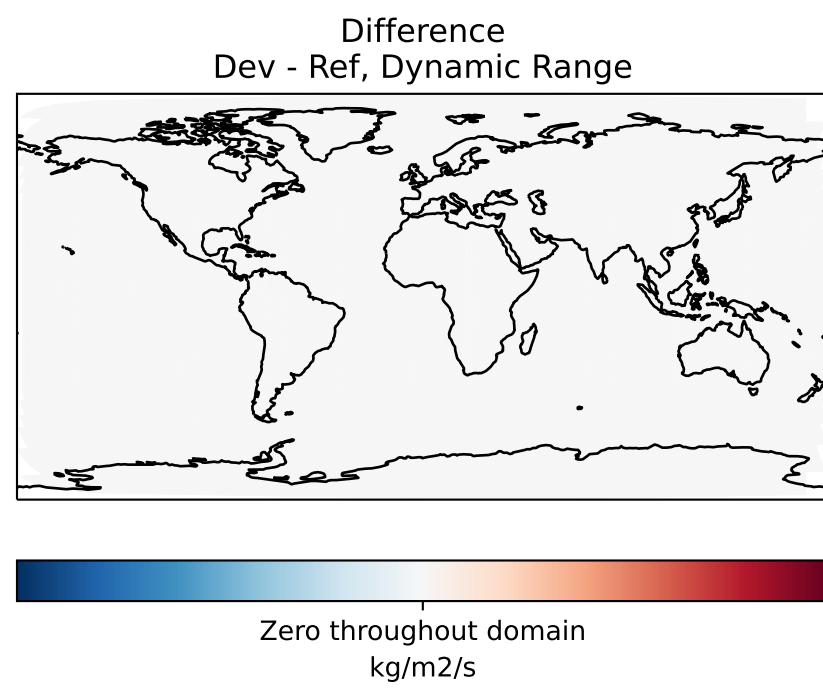
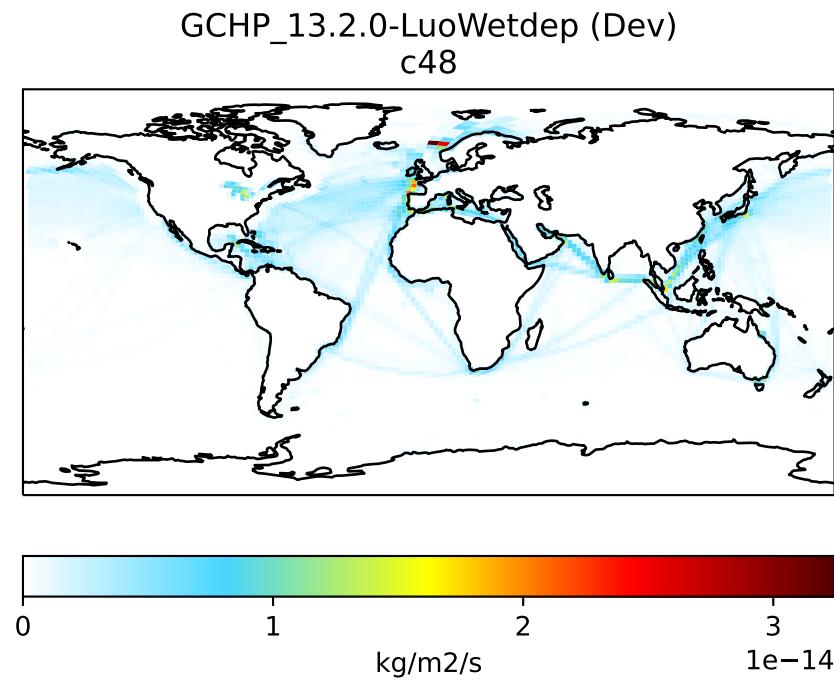
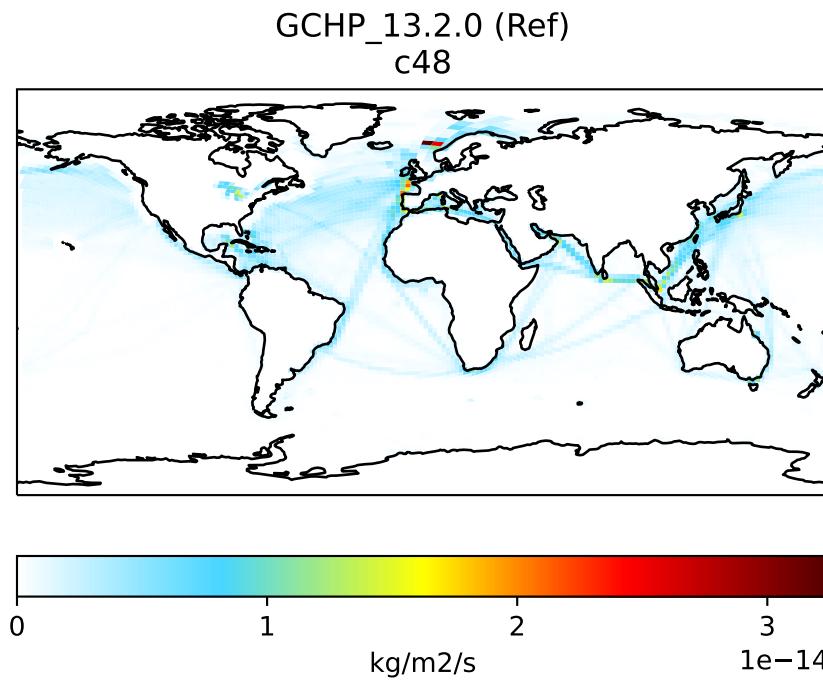
# EmisOCPI\_Ship (Jul2019)



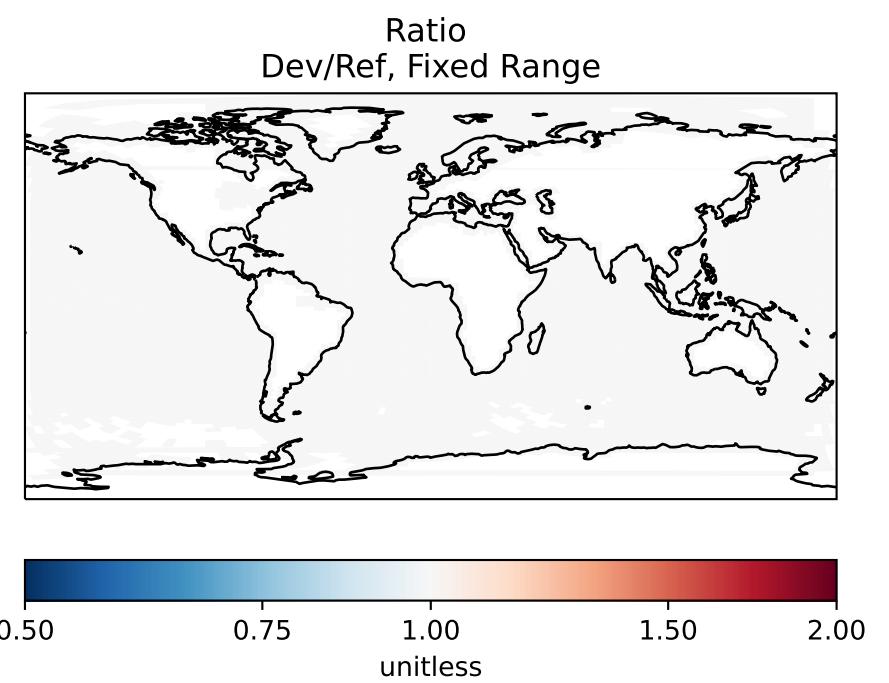
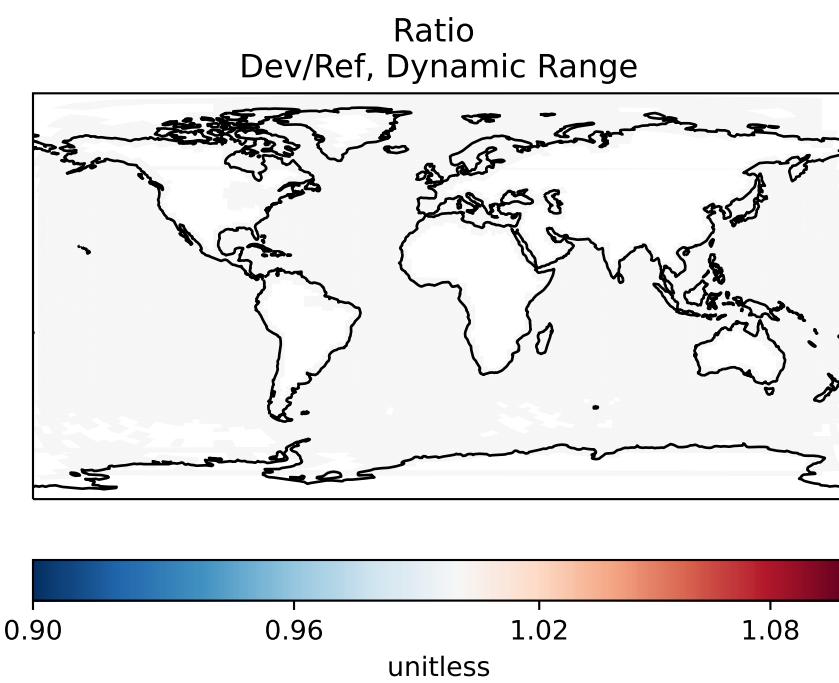
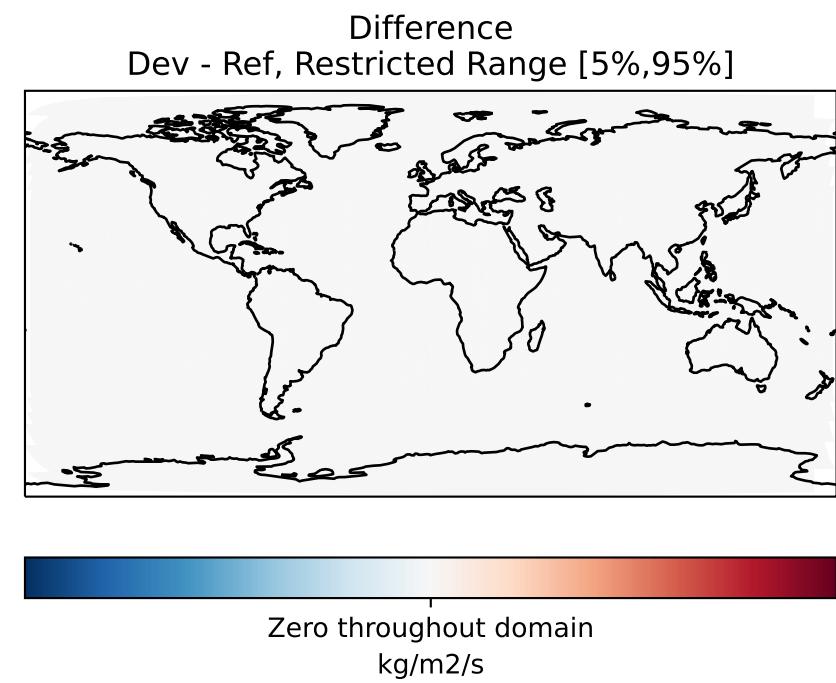
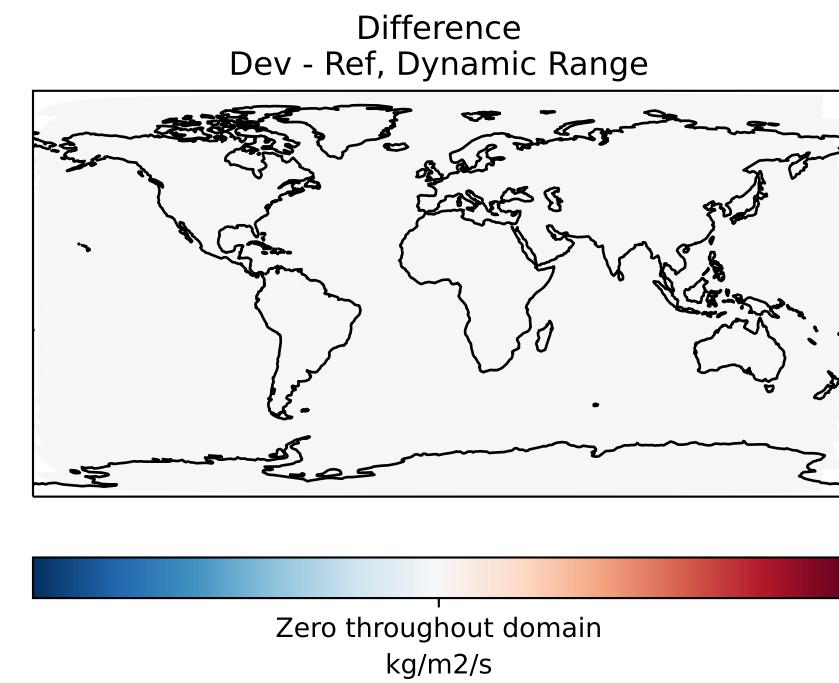
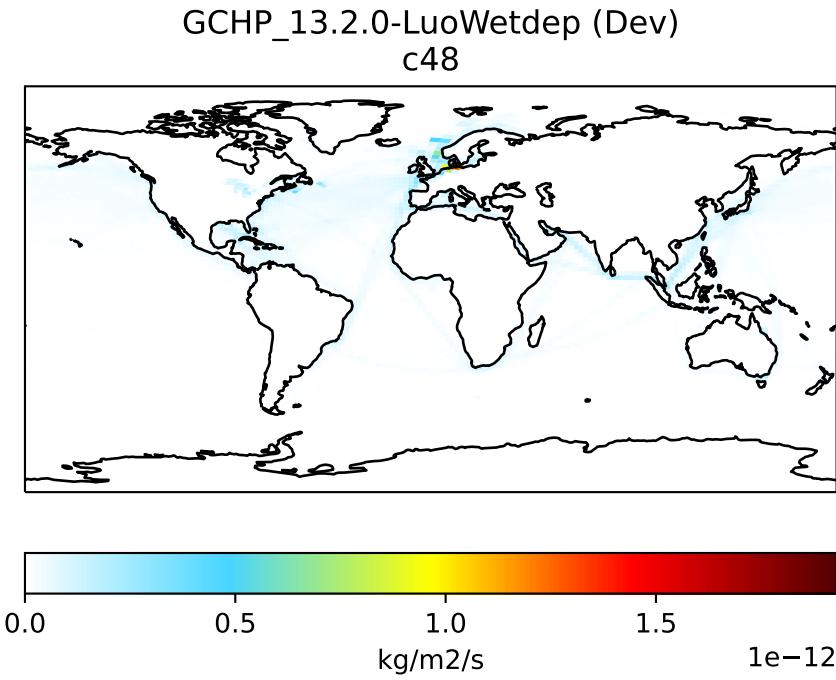
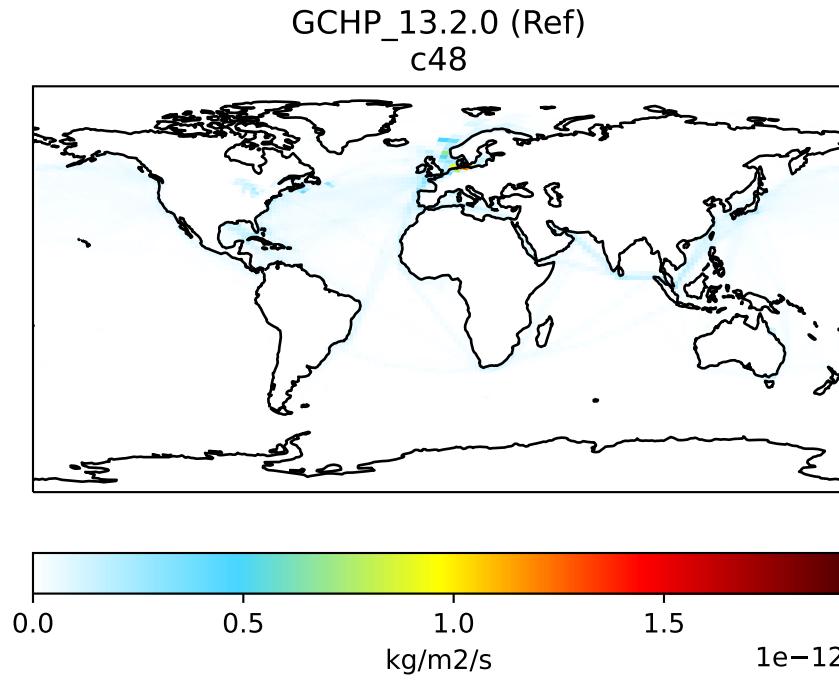
# EmisOCPO\_Ship (Jul2019)



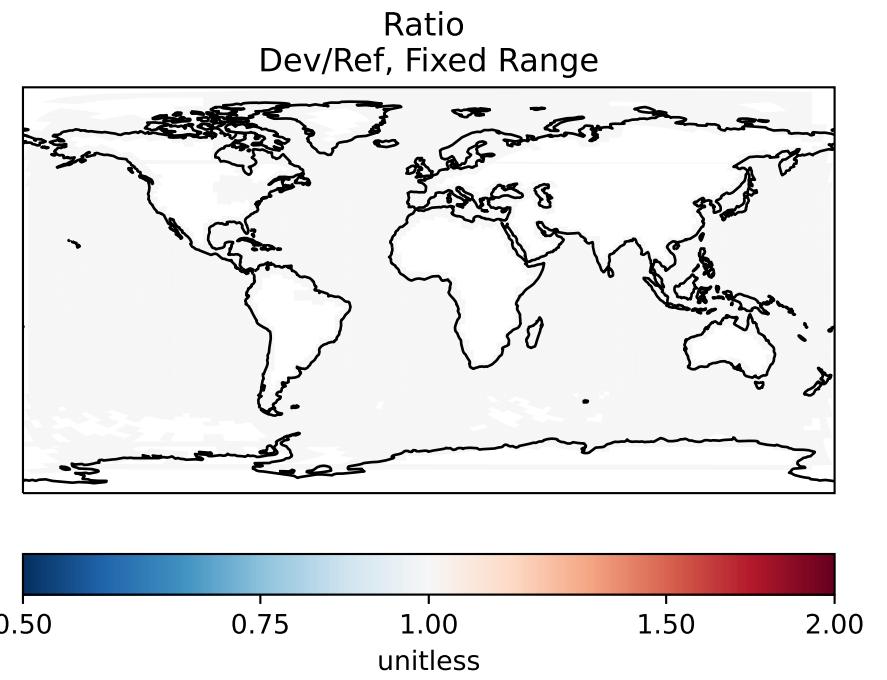
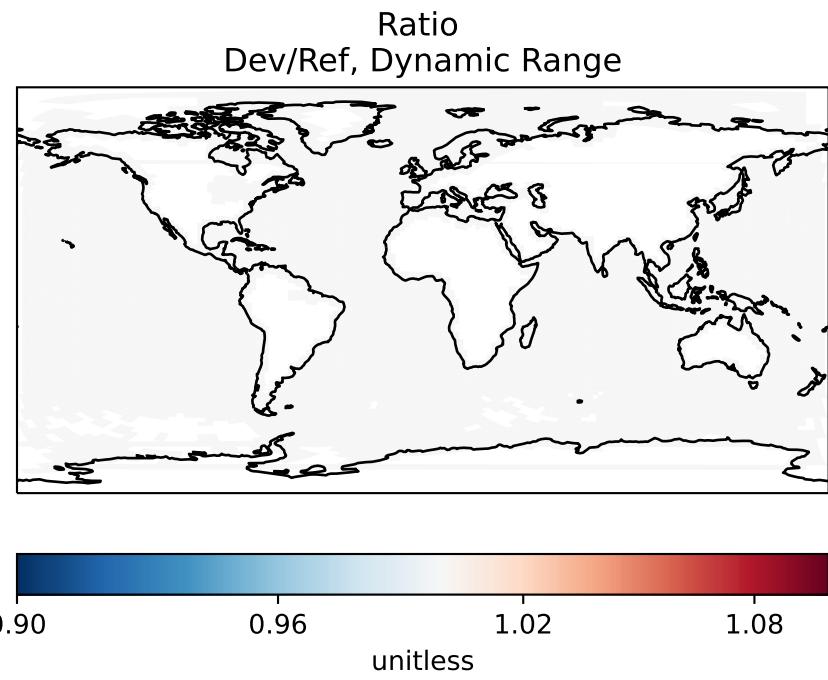
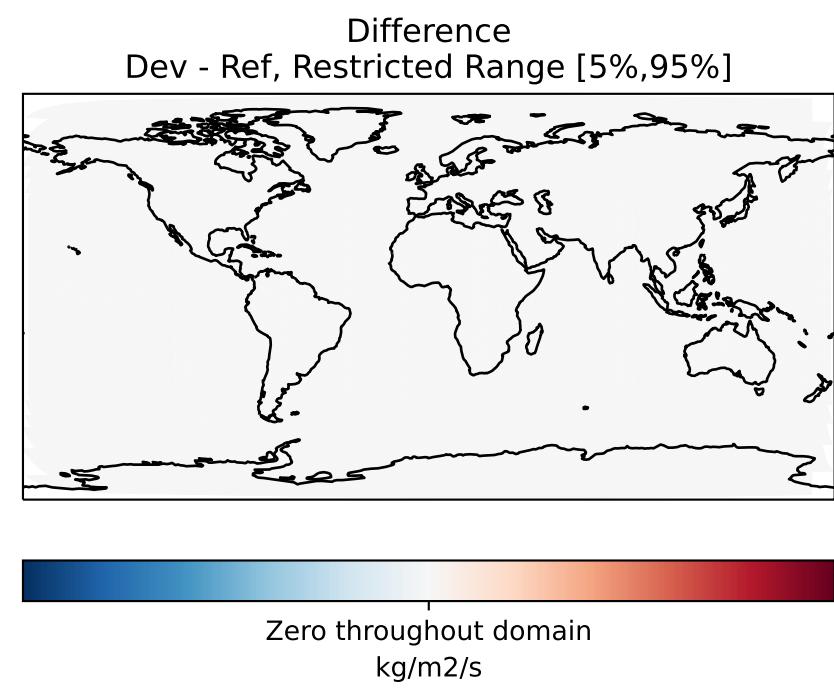
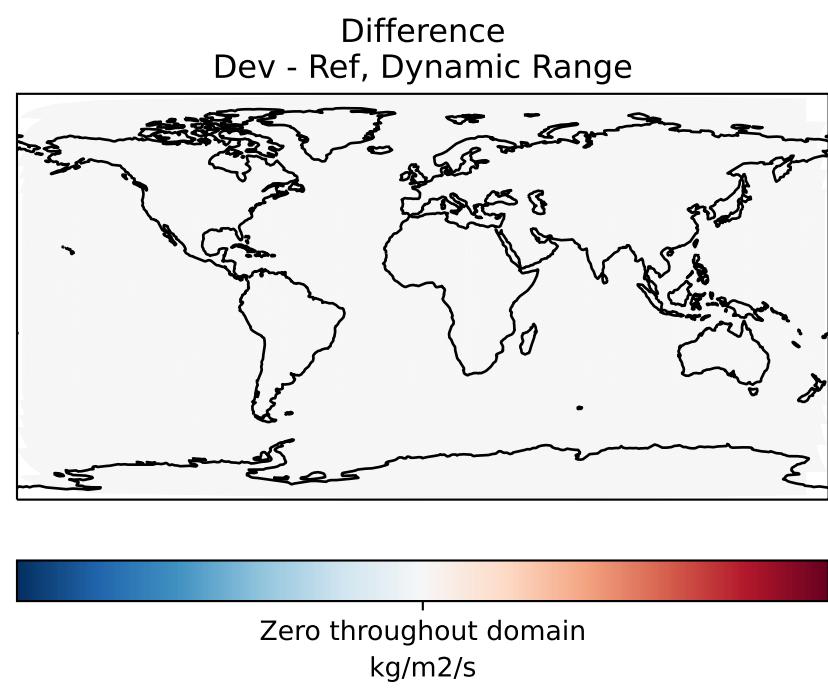
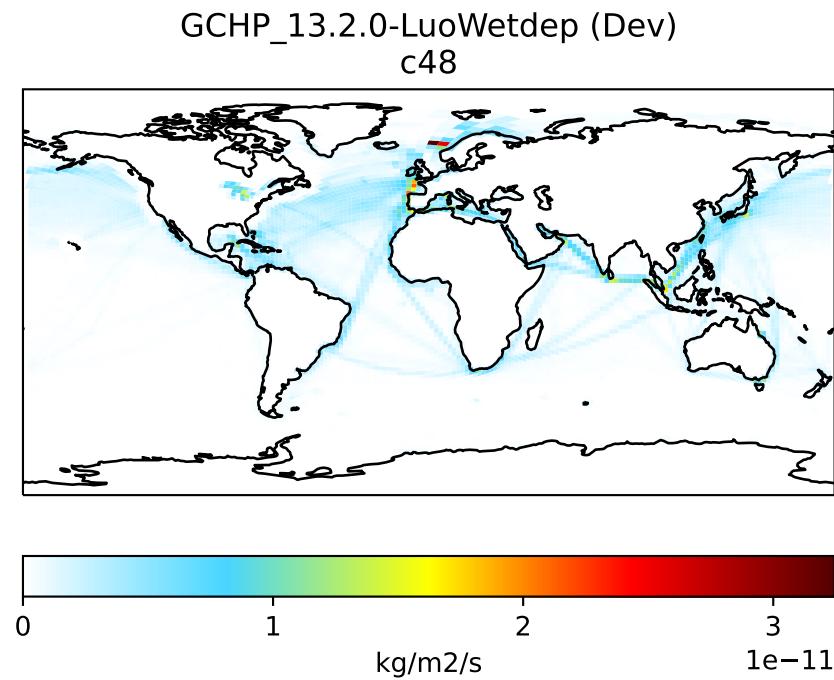
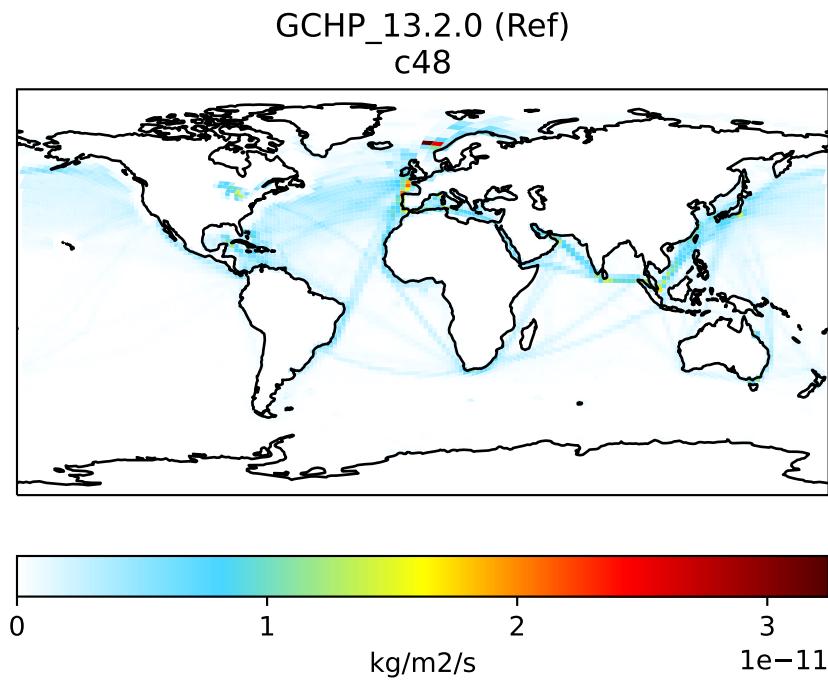
# EmispFe\_Ship (Jul2019)



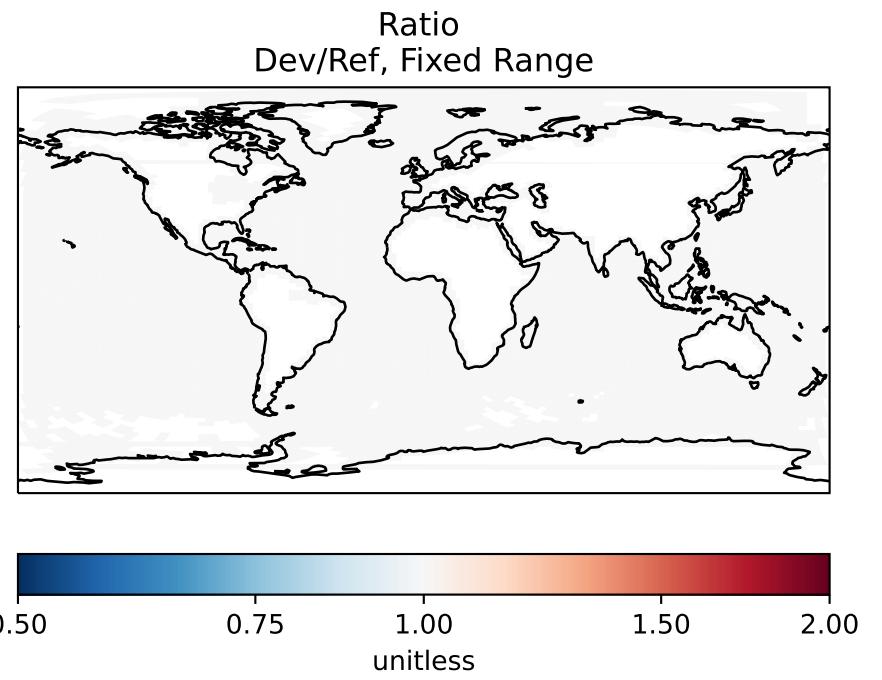
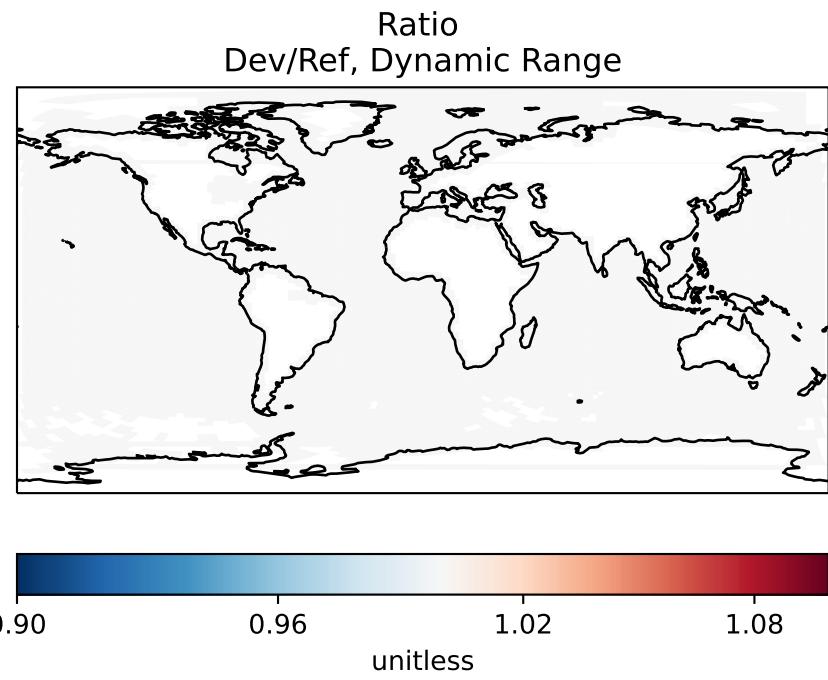
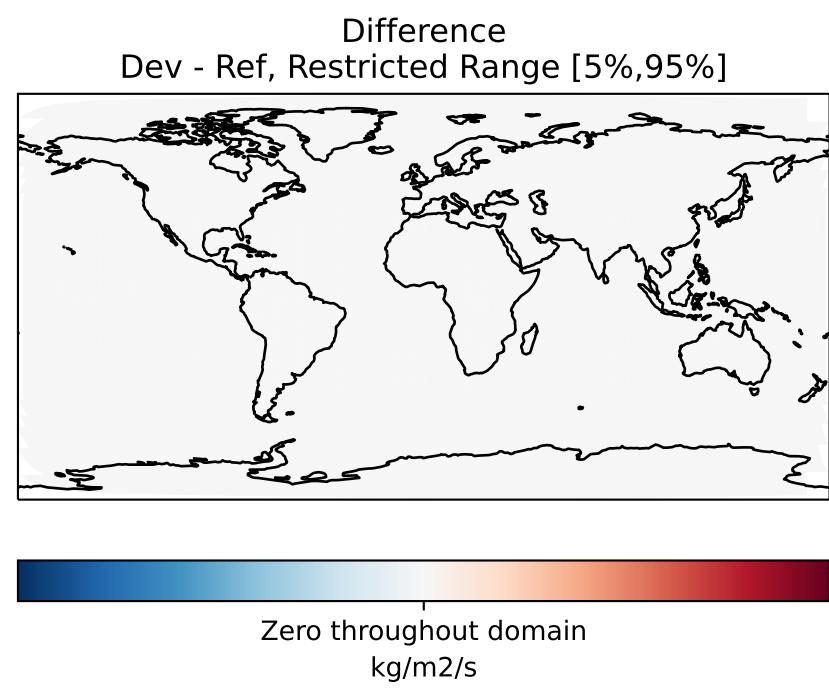
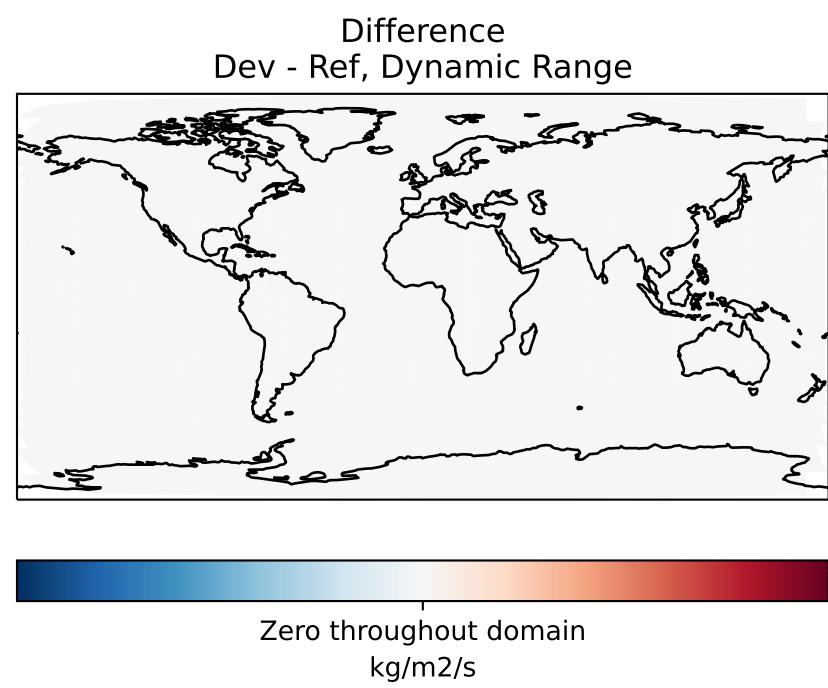
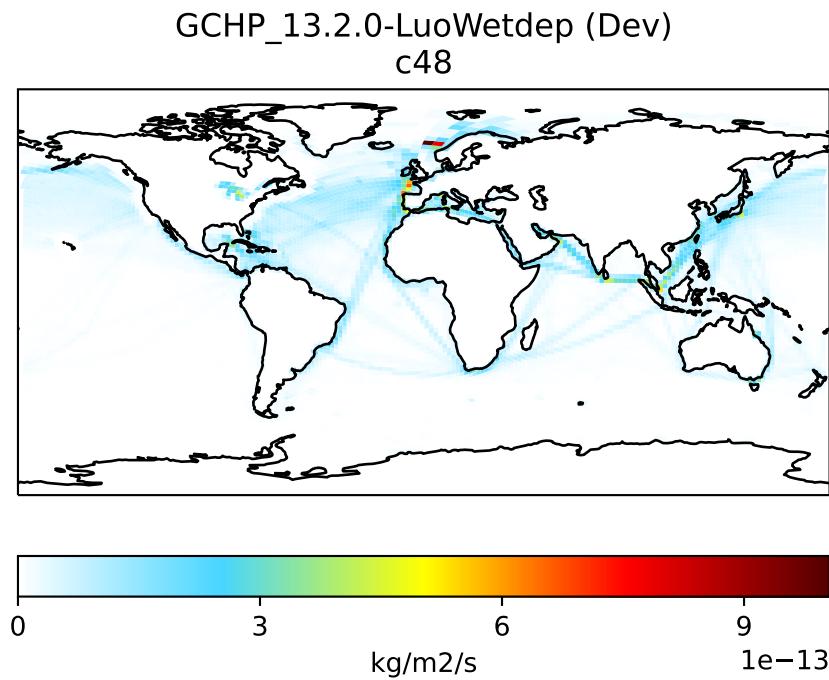
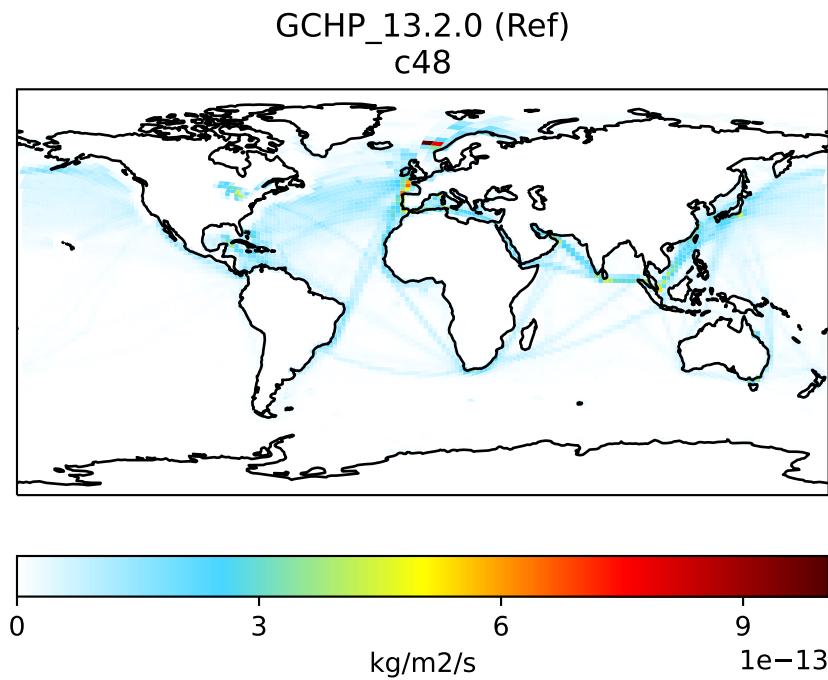
# EmisPRPE\_Ship (Jul2019)



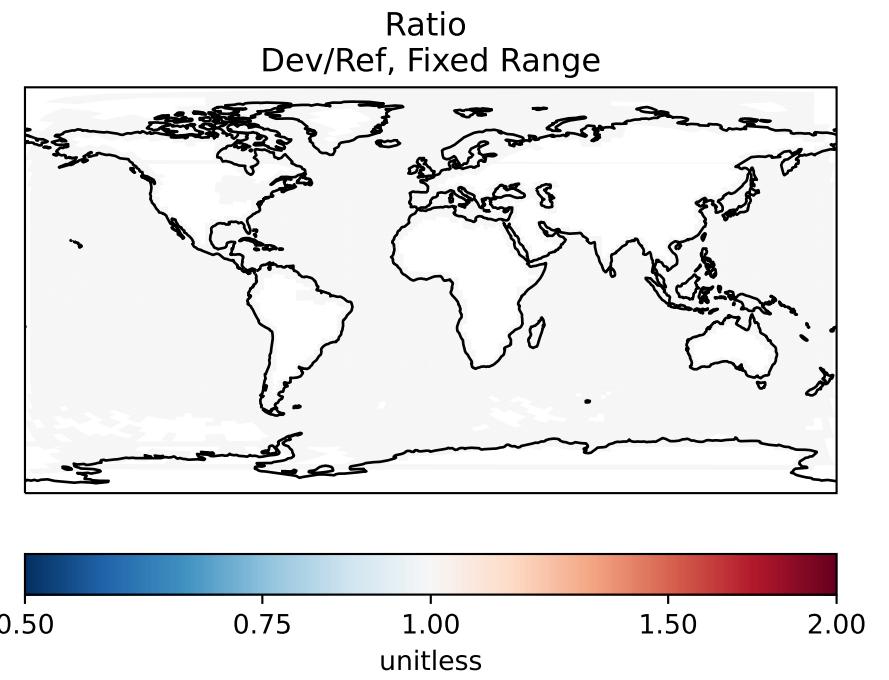
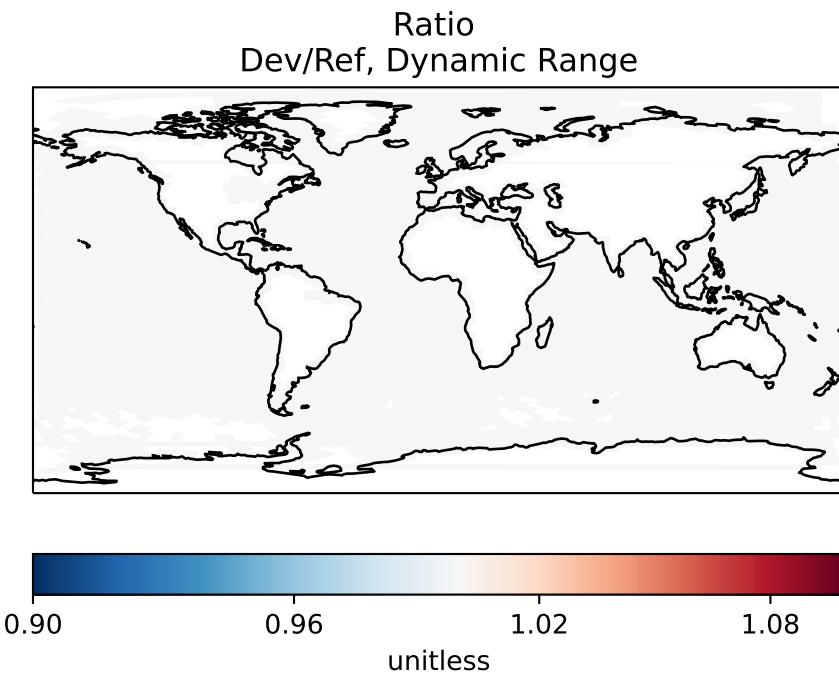
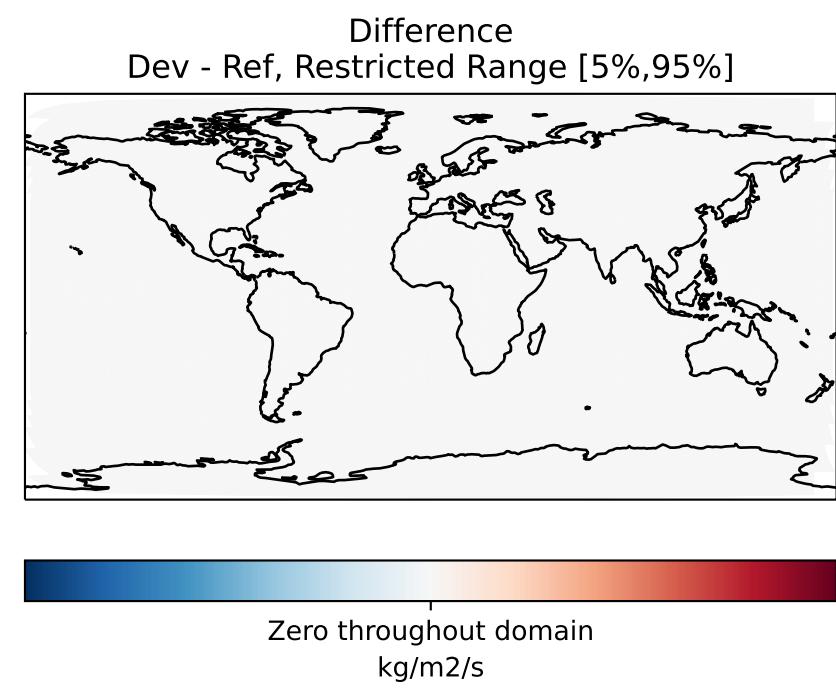
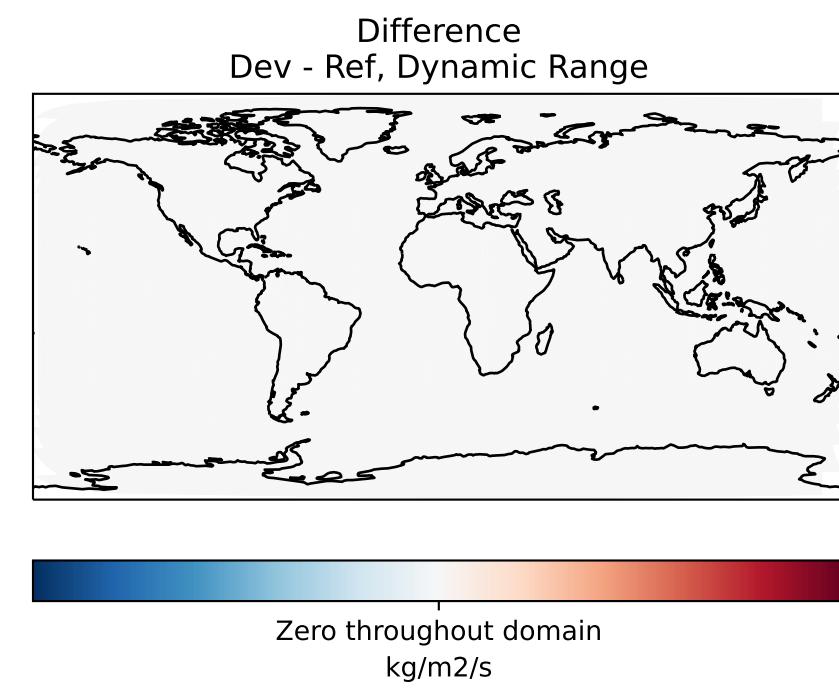
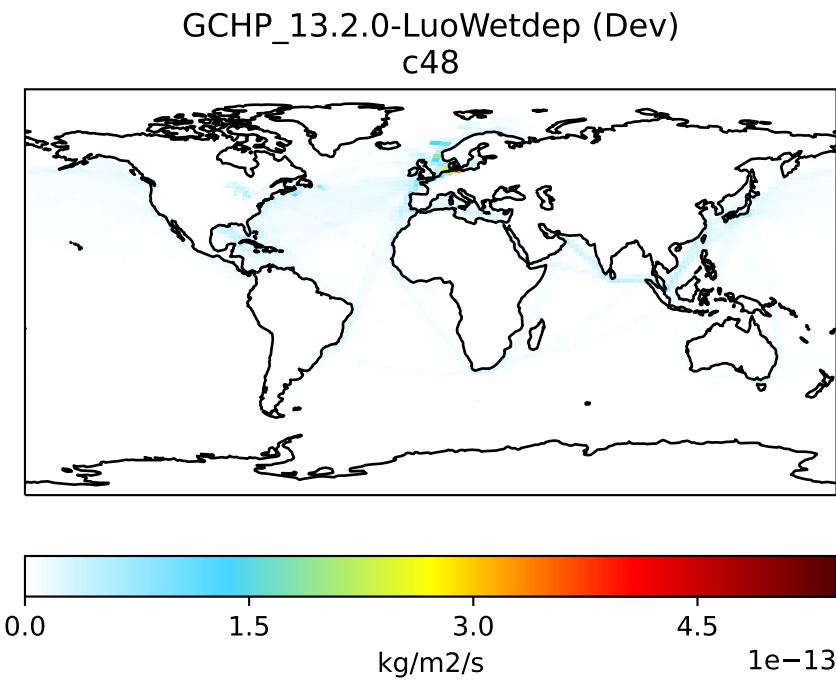
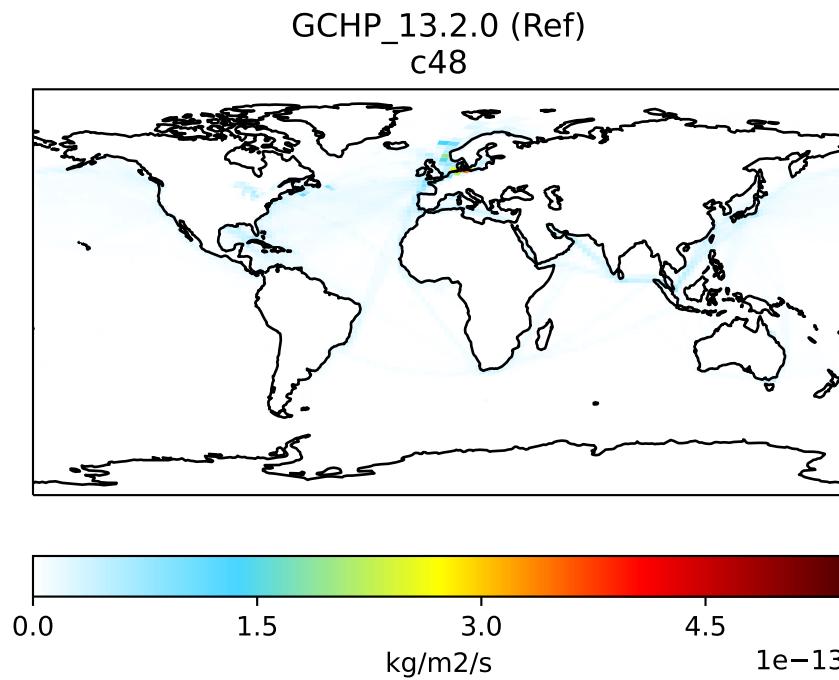
# EmisSO2\_Ship (Jul2019)



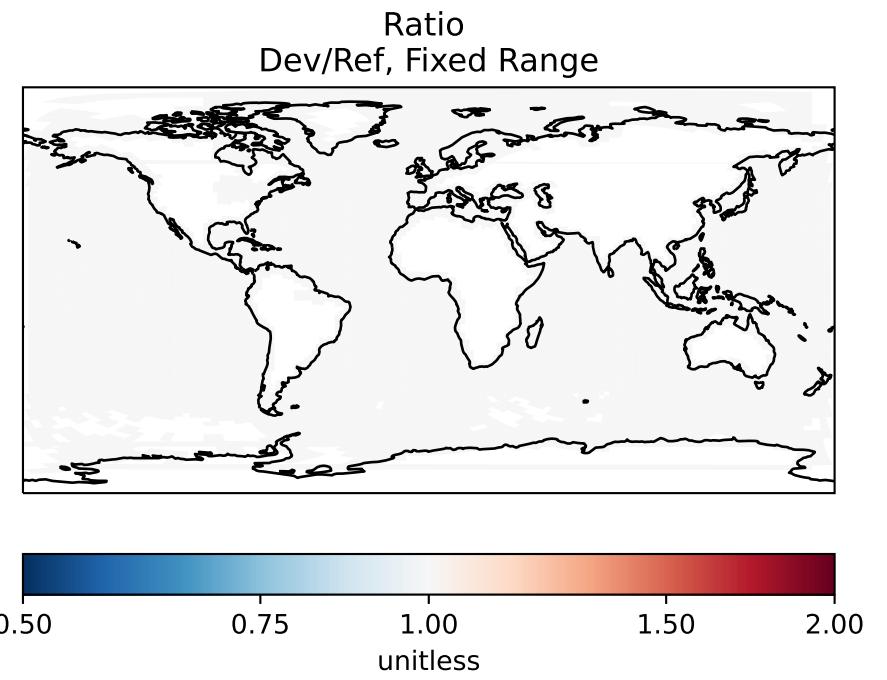
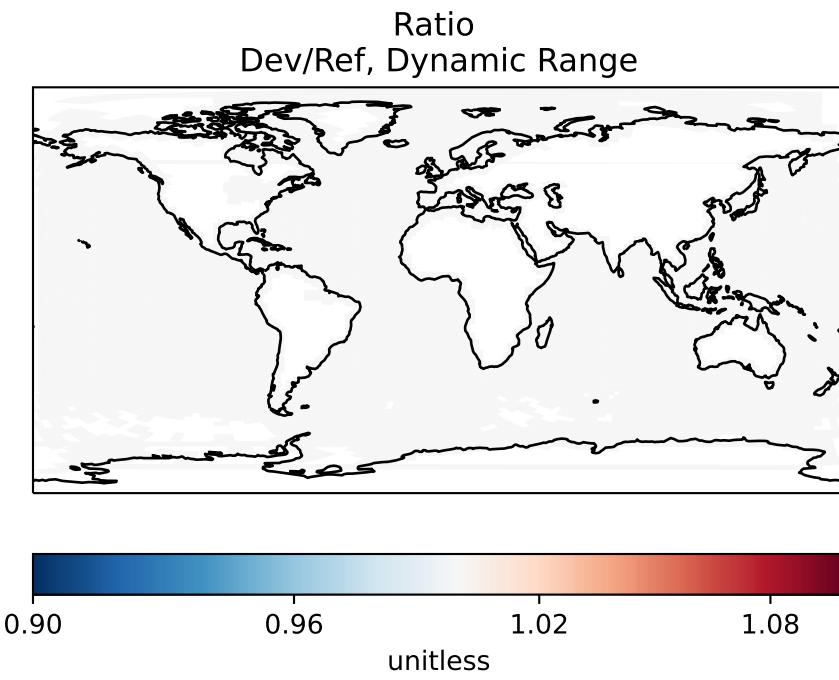
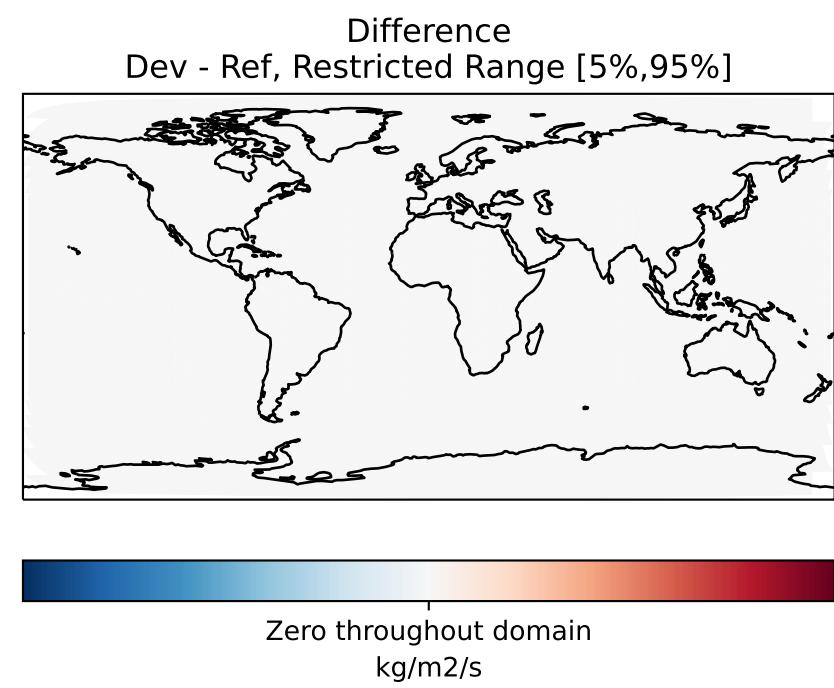
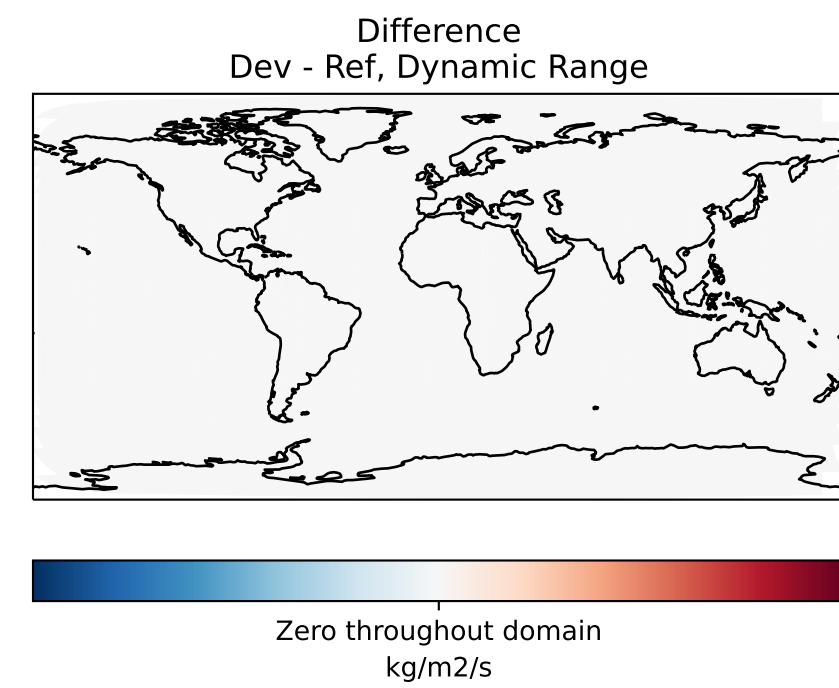
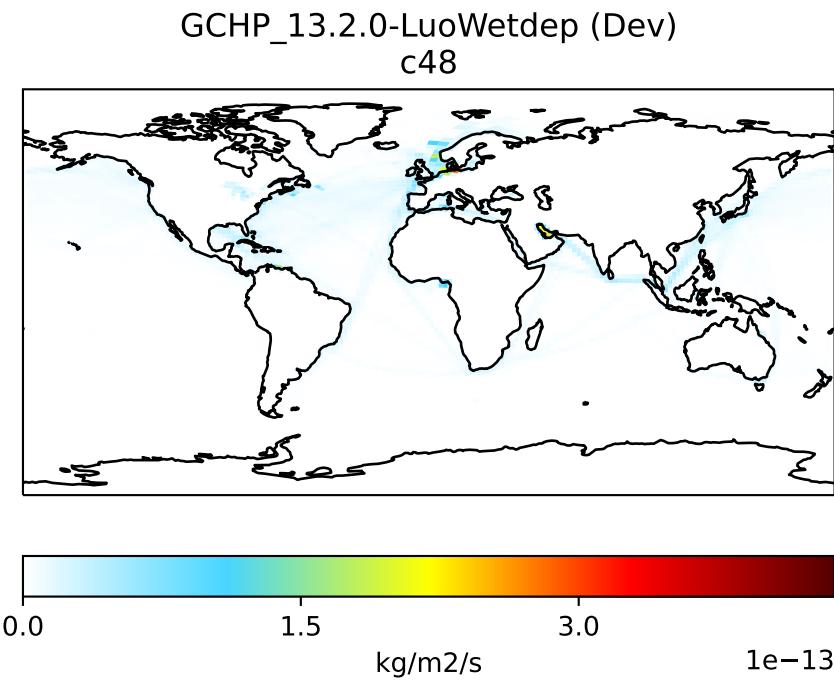
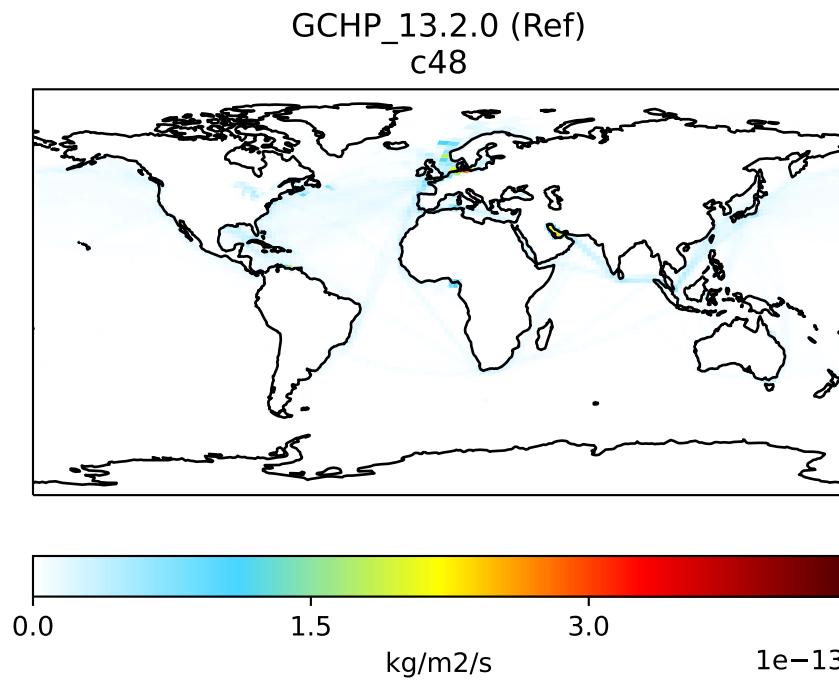
# EmisSO4\_Ship (Jul2019)



# EmisSOAP\_Ship (Jul2019)



# EmisTOLU\_Ship (Jul2019)



# EmisXYLE\_Ship (Jul2019)

