EmisACTA_BioBurn

EmisACTA_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s
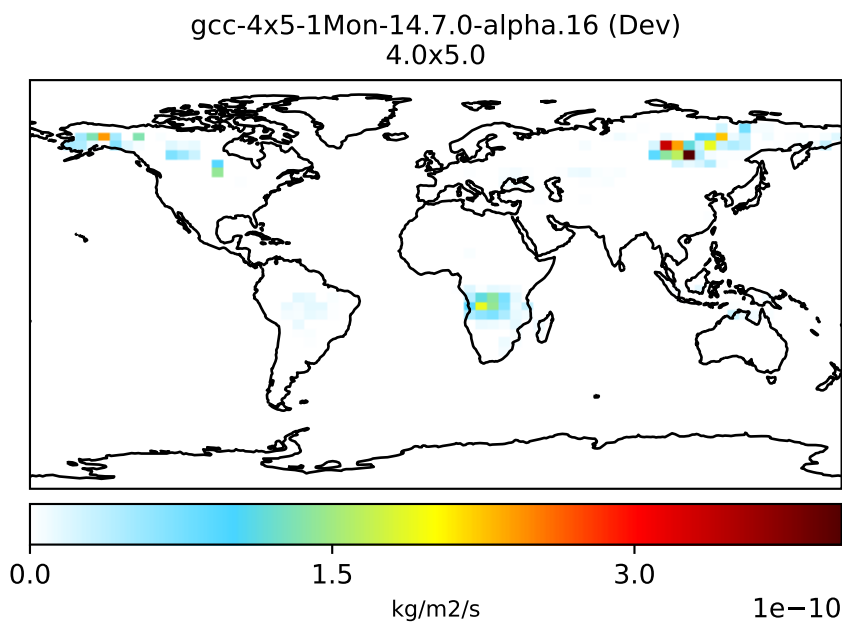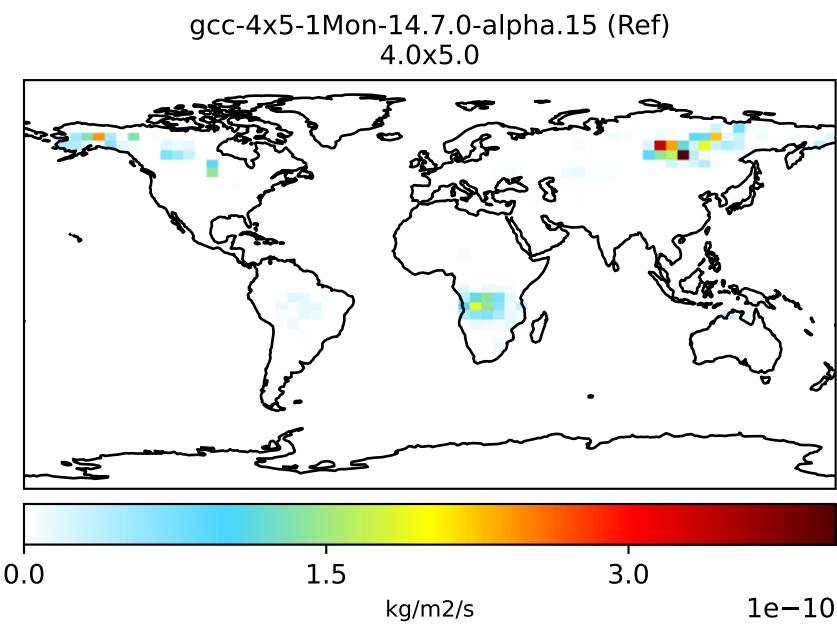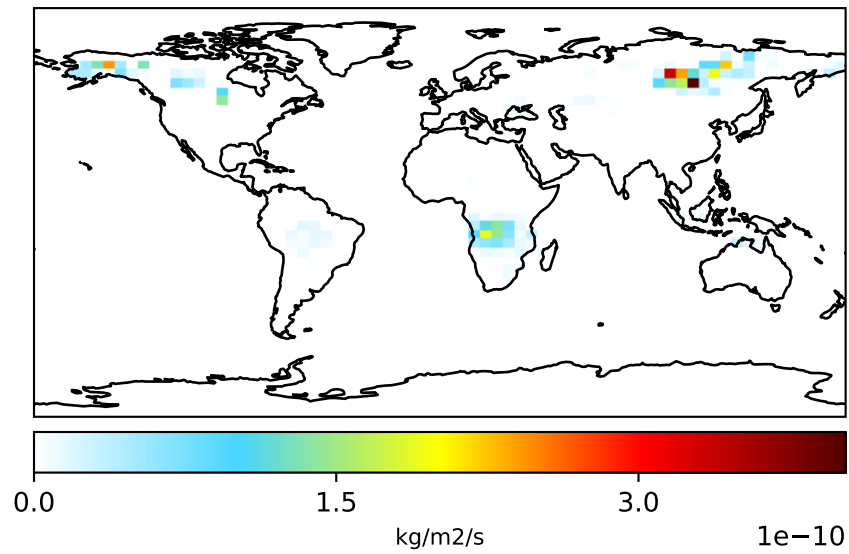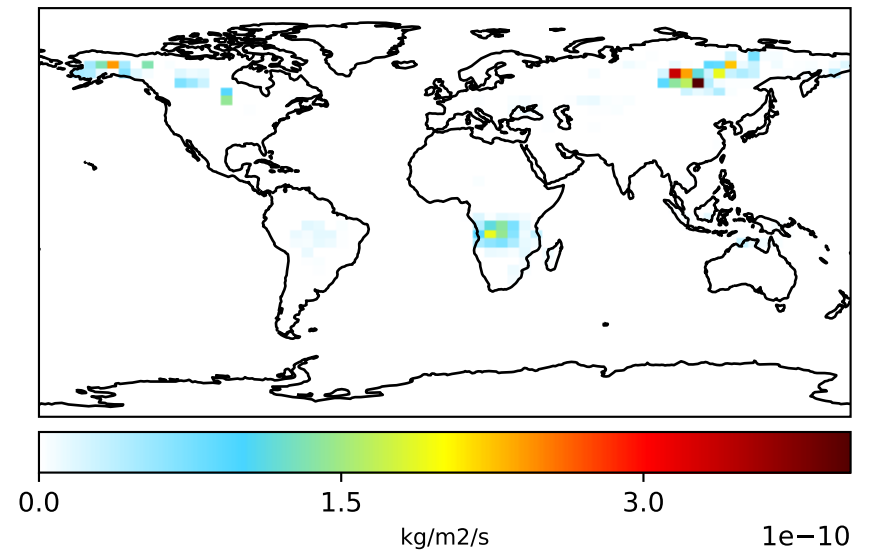
kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
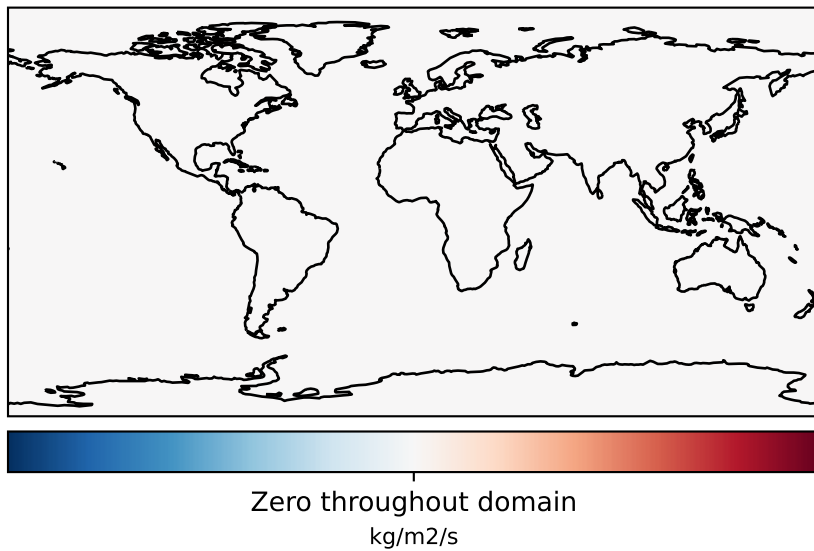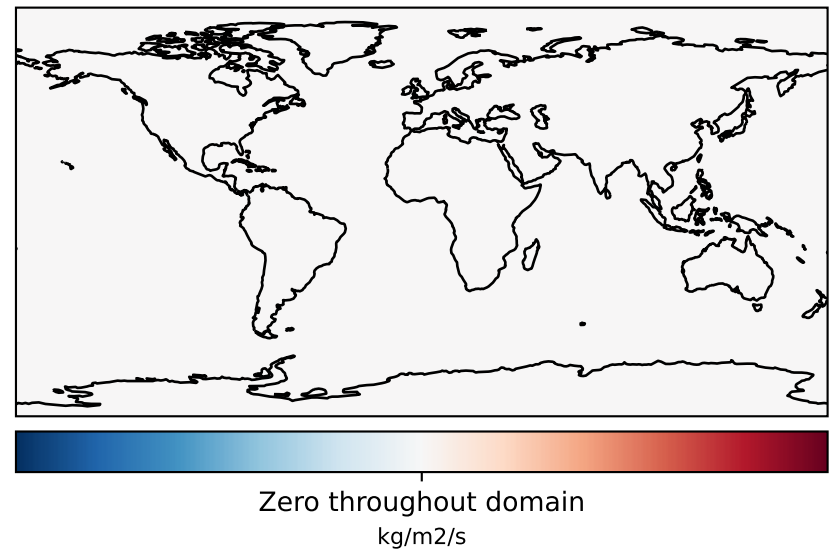unitless

EmisHCOOH_Anthro

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
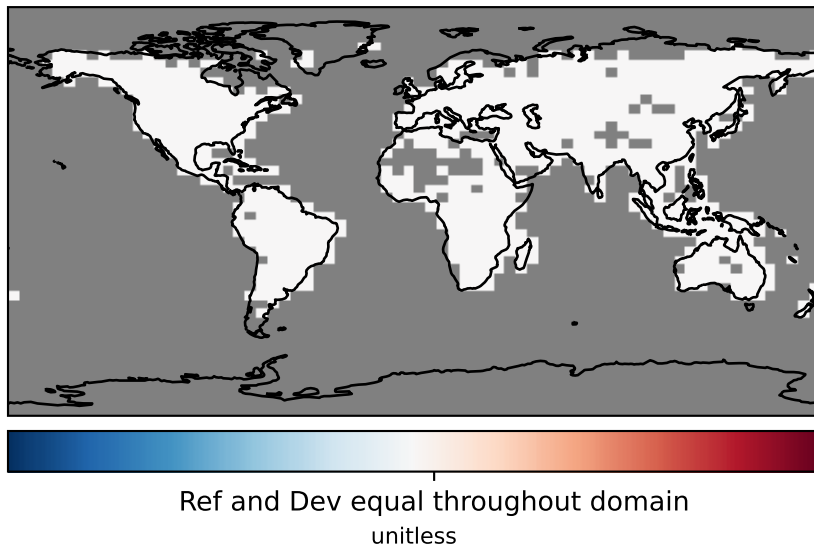4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

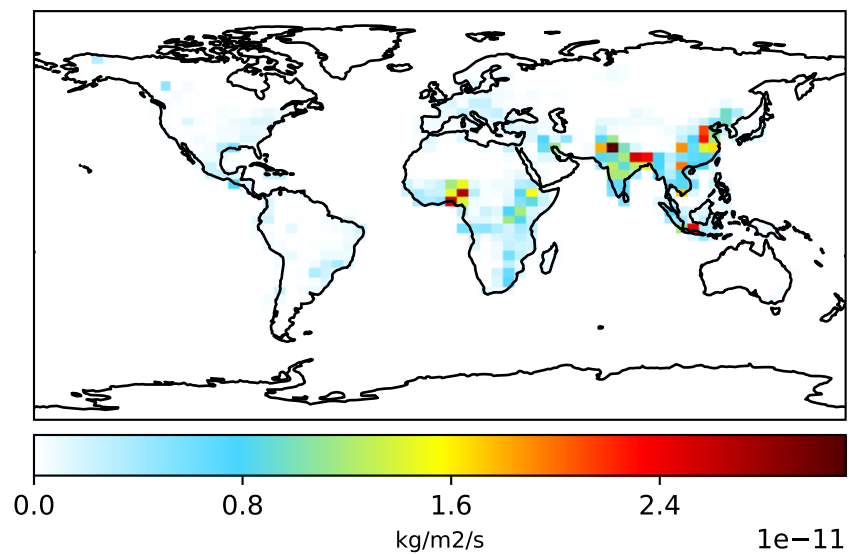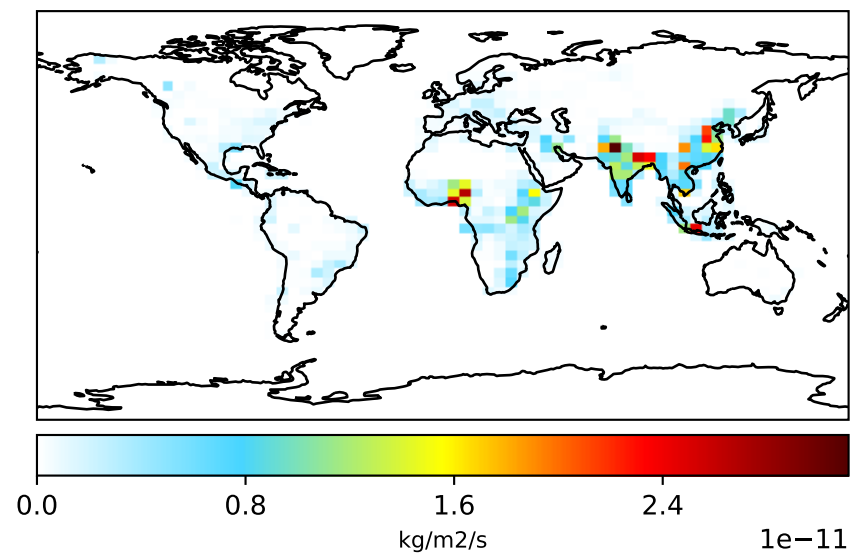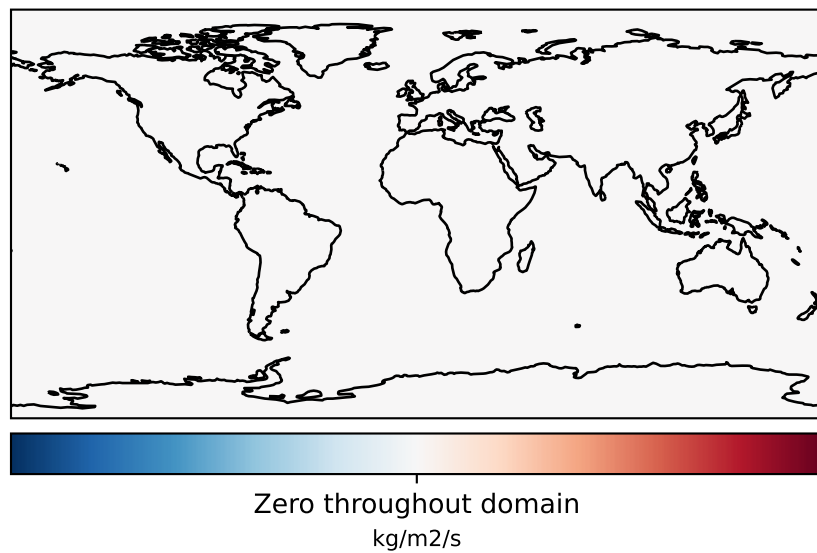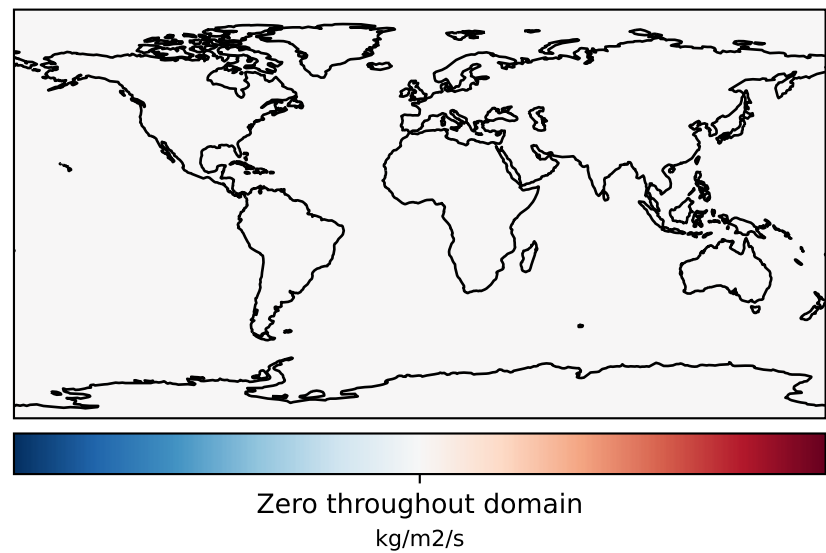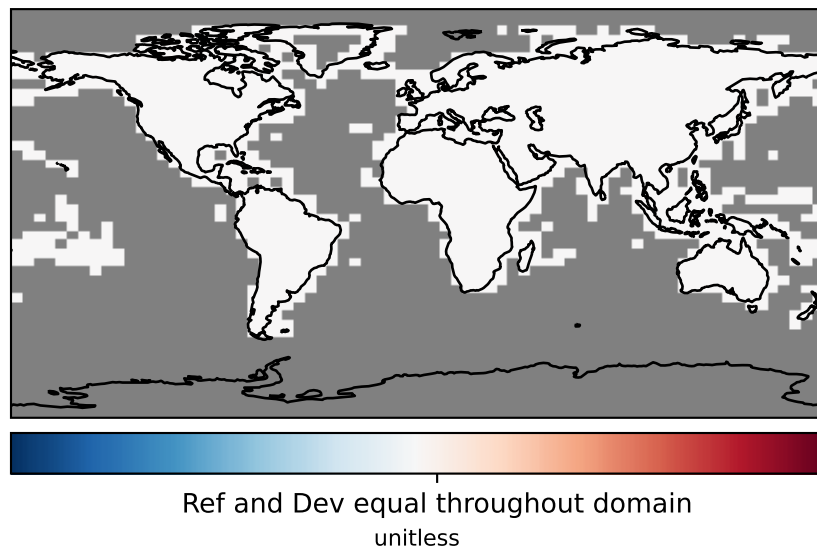Difference
Dev - Ref, Restricted Range [5%,95%]

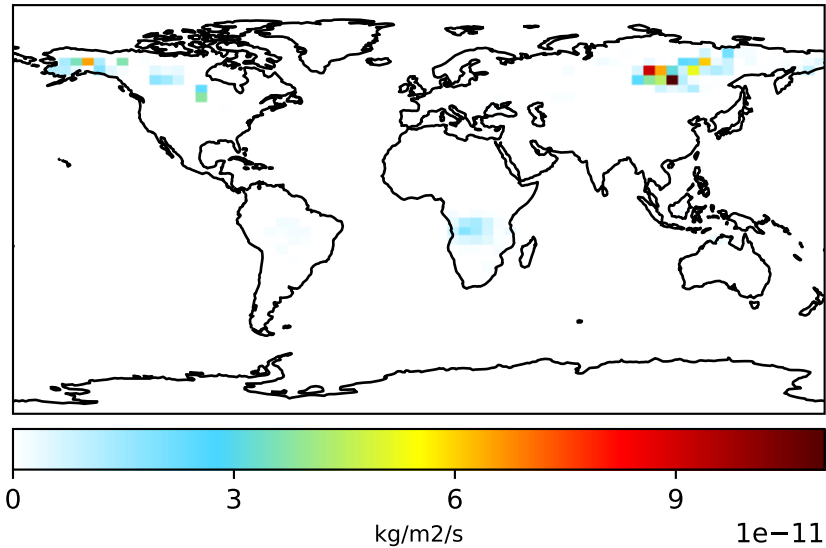Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisHCOOH_BioBurn

EmisHCOOH_Ship

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

Zero throughout domain
kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (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
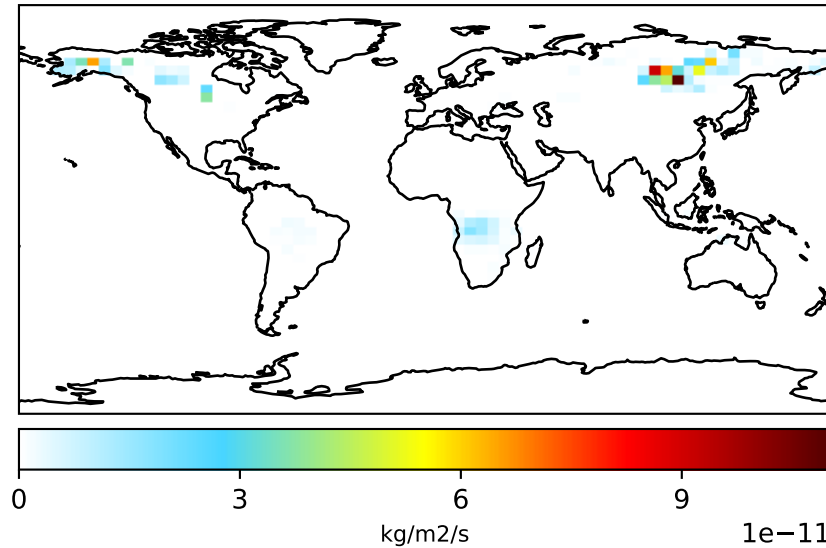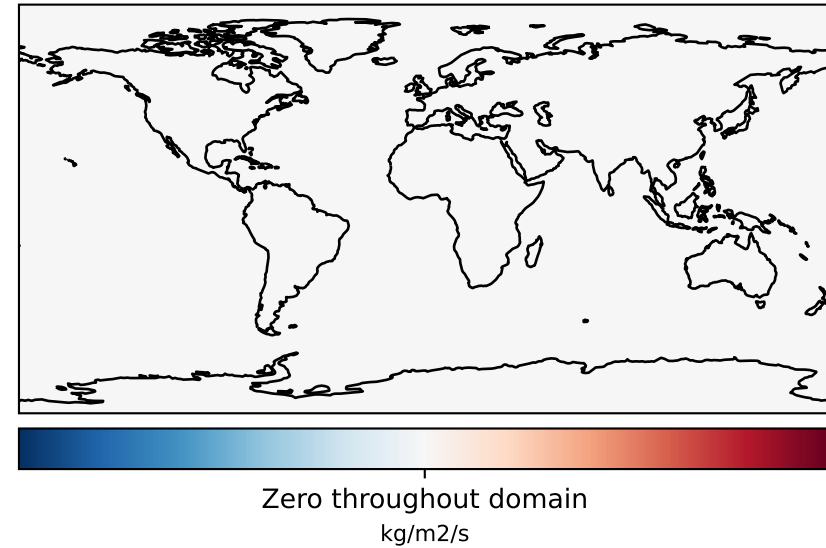unitless

EmisHCOOH_Total

EmisACR_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0
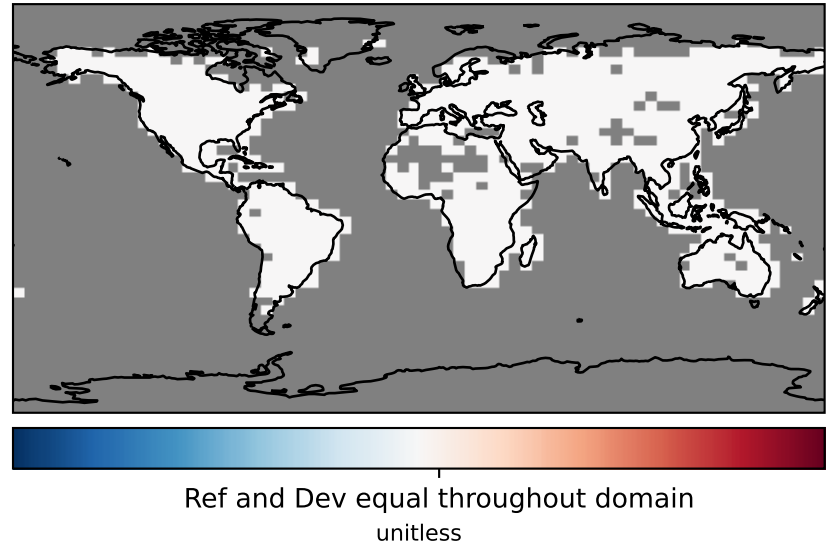
kg/m2/s

1e−11

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
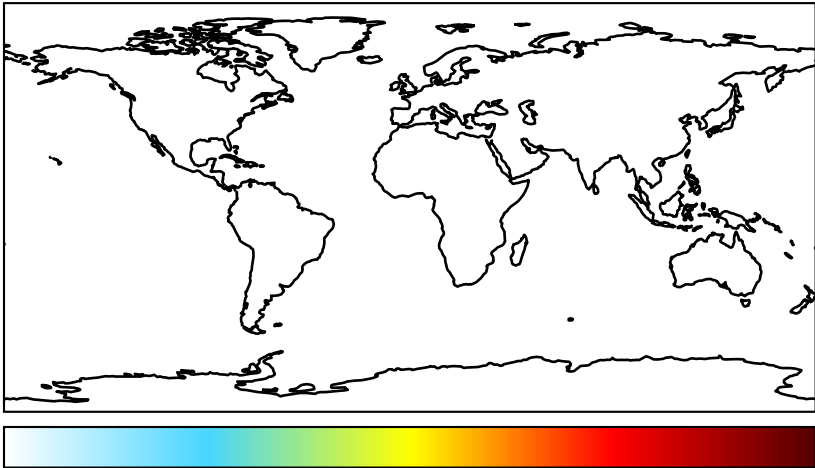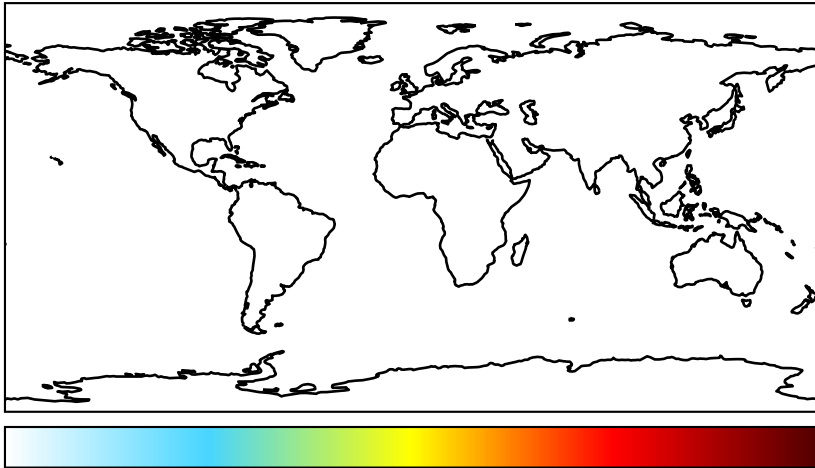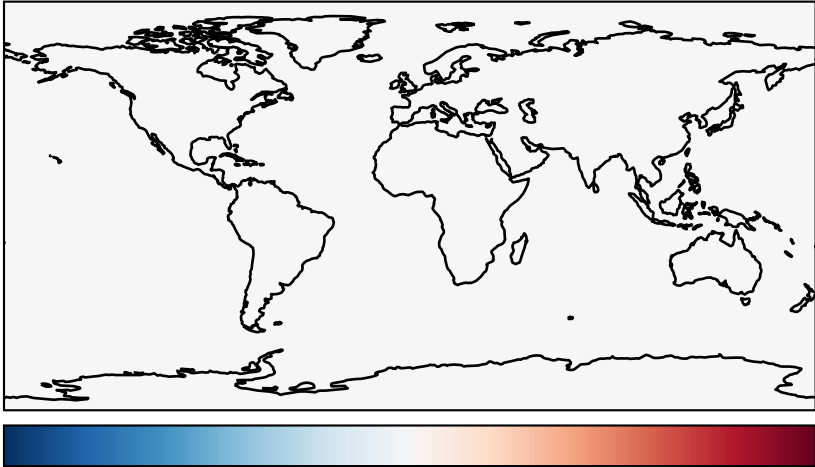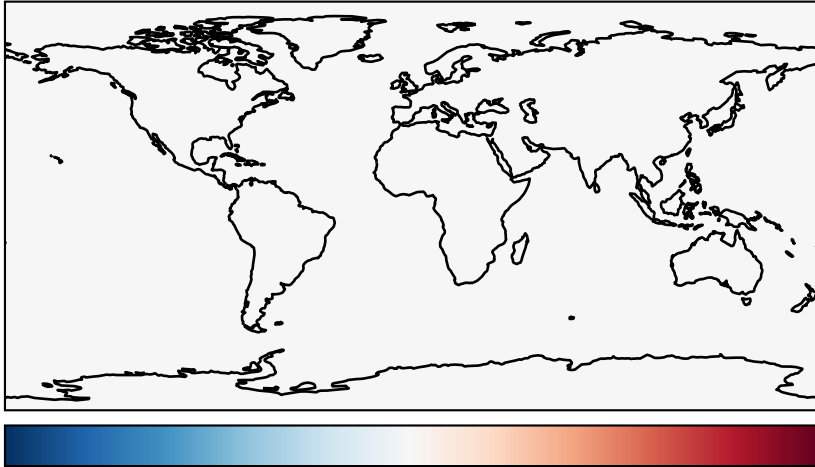4.0x5.0
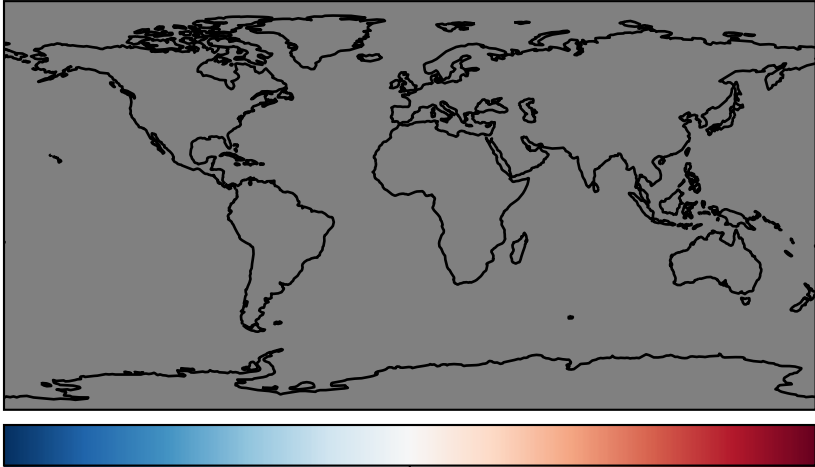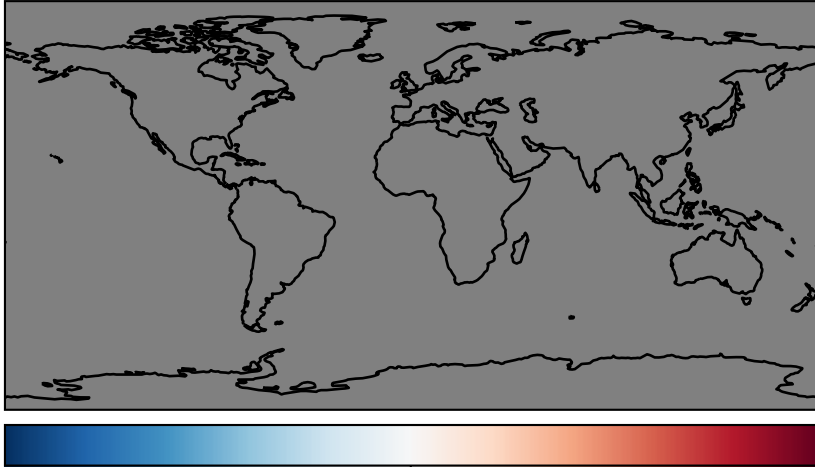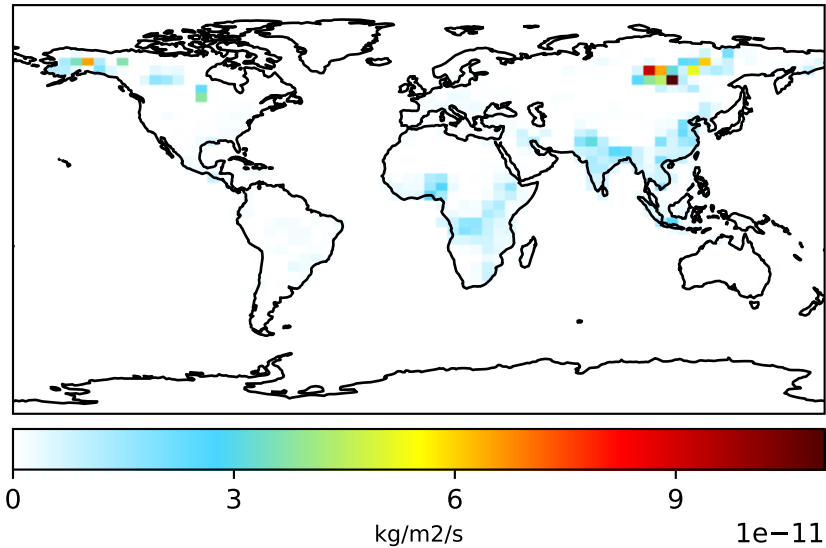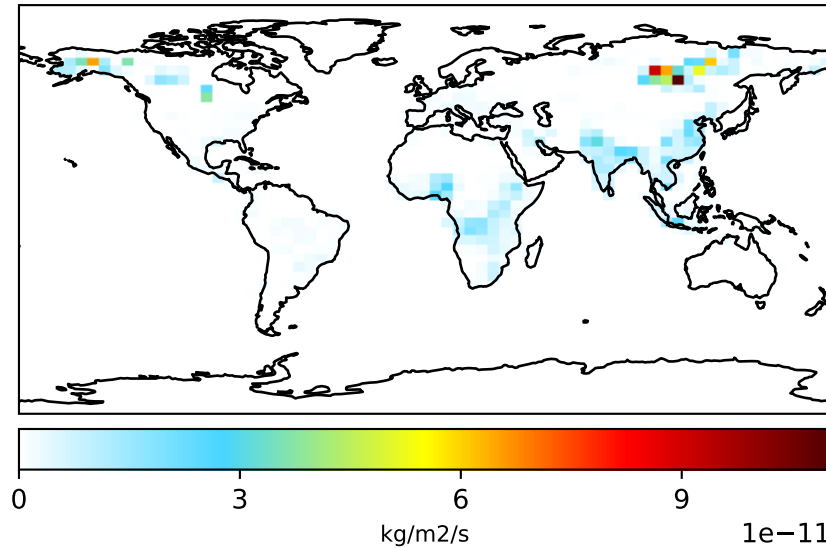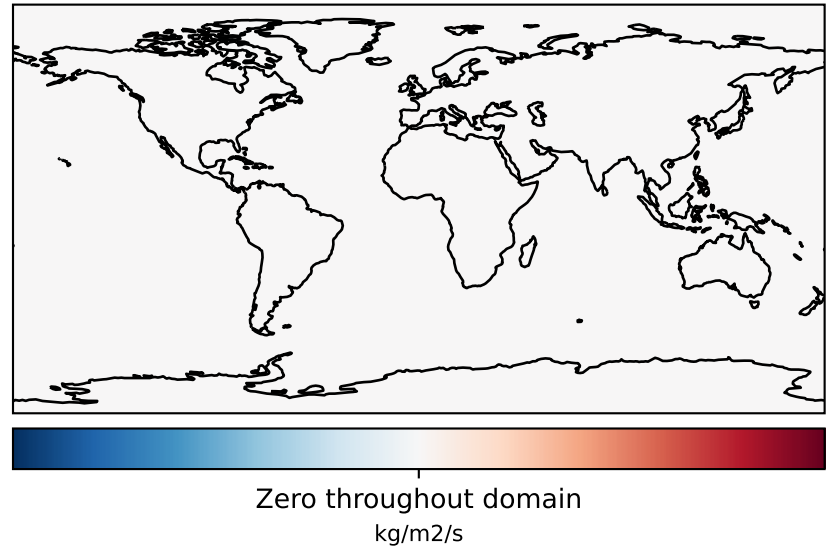
kg/m2/s

1e−11

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

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisACR_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

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

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

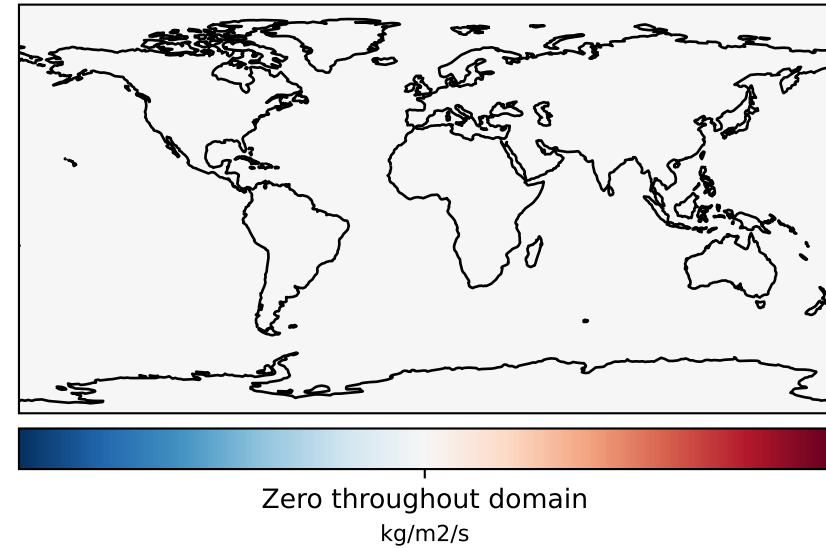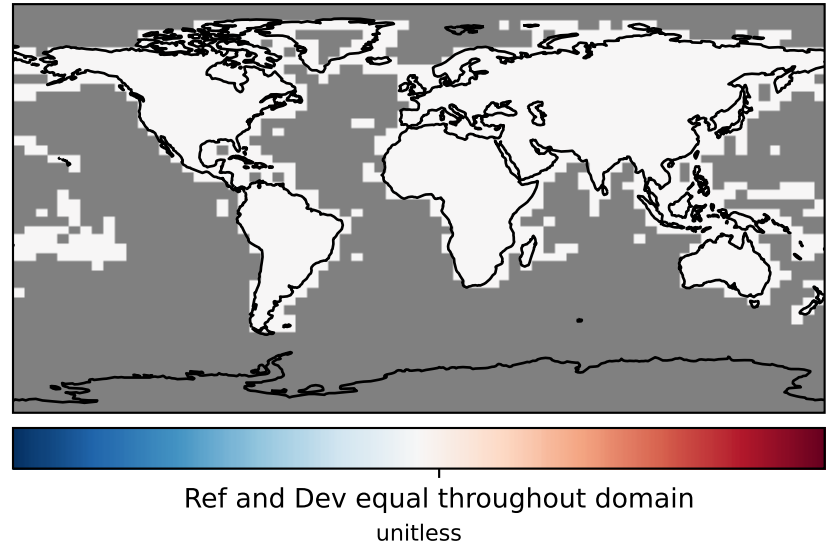# EmisALD2_Anthro

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range
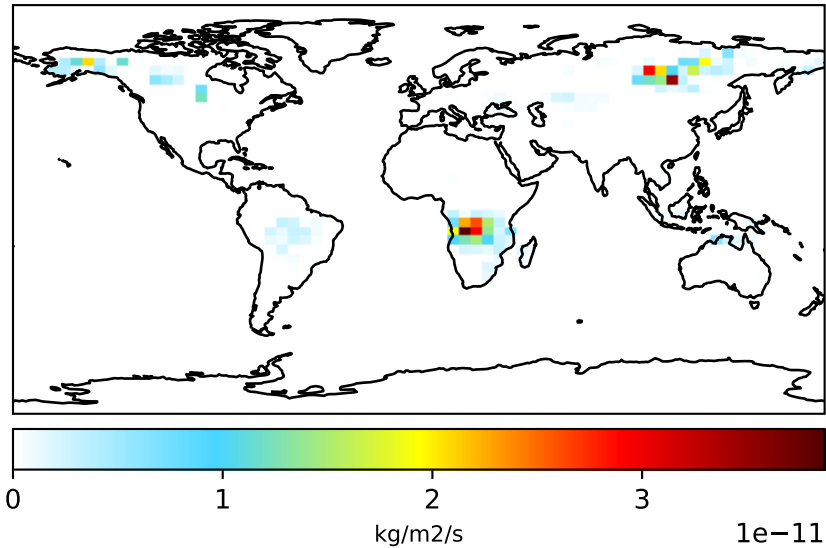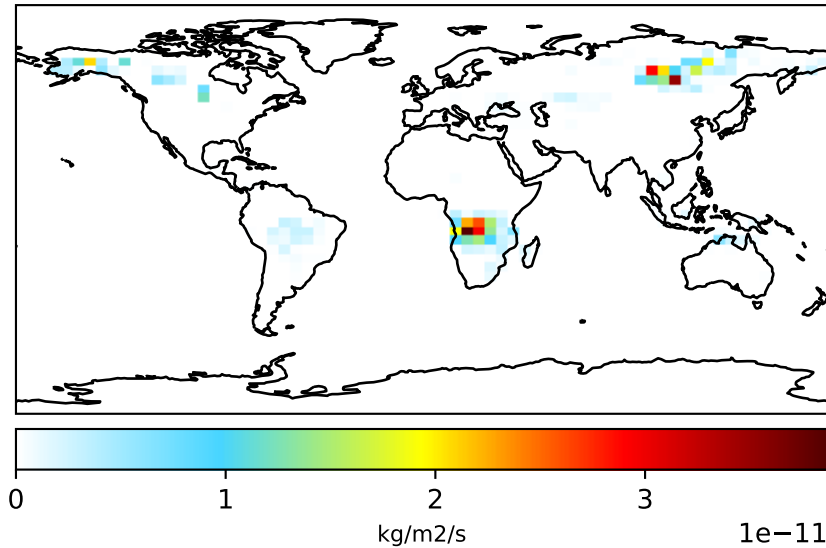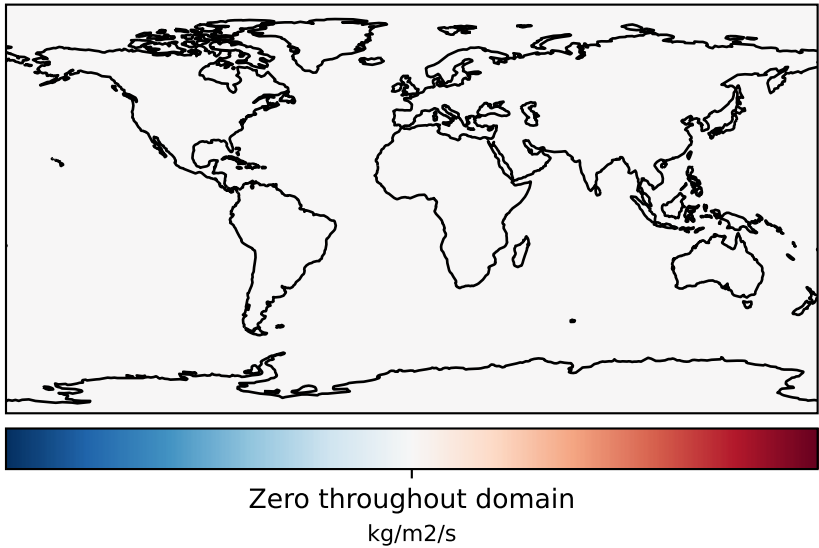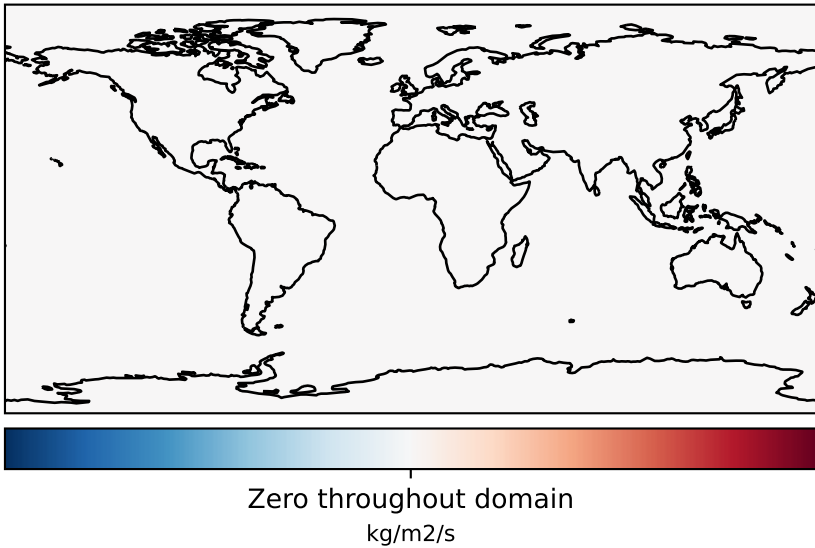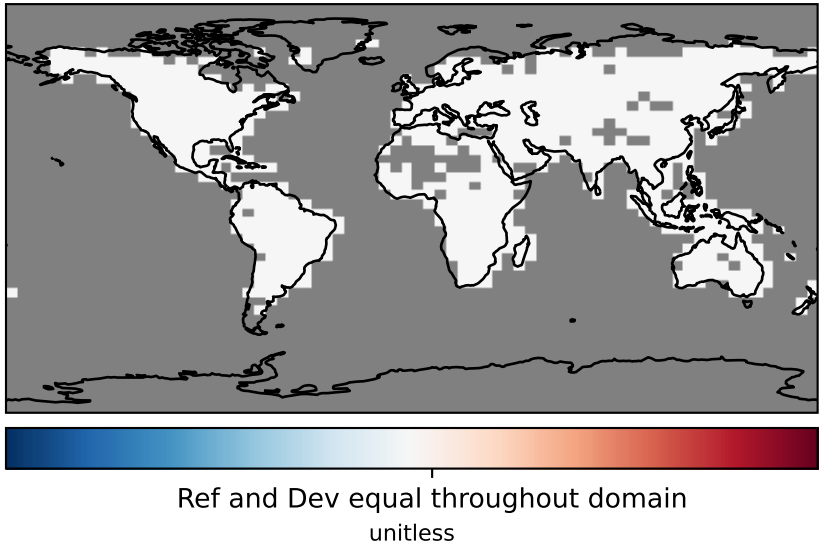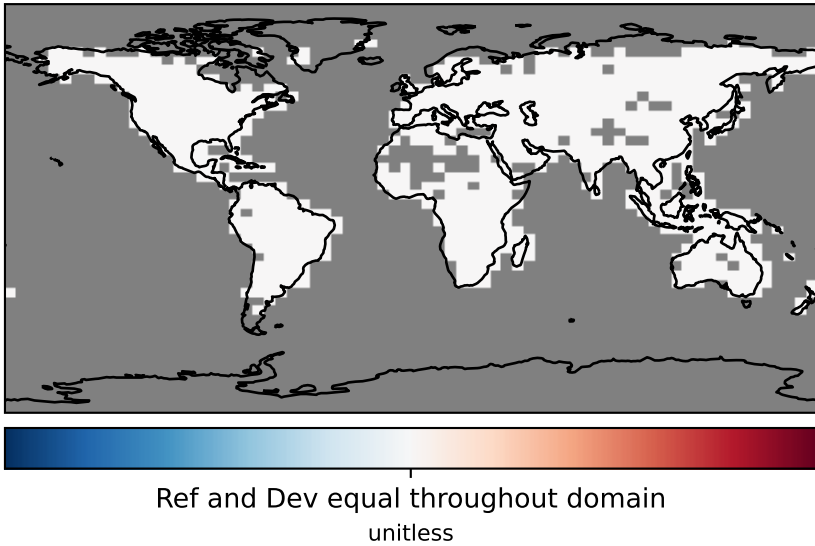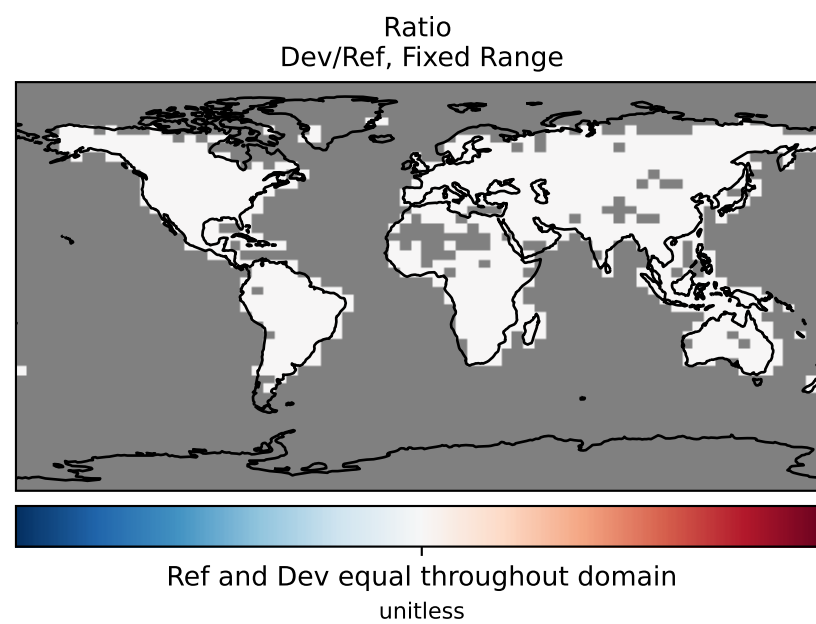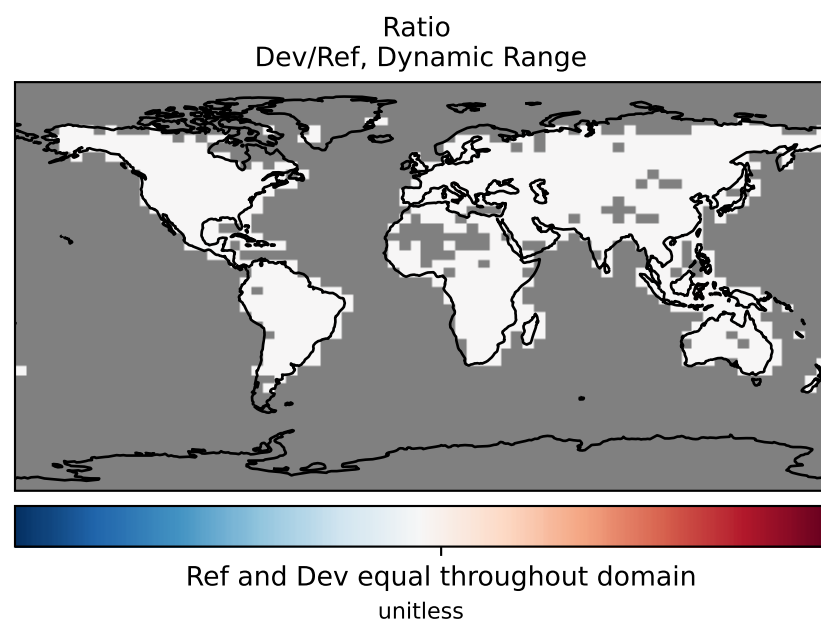
Difference
Dev - Ref, Restricted Range [5%,95%]
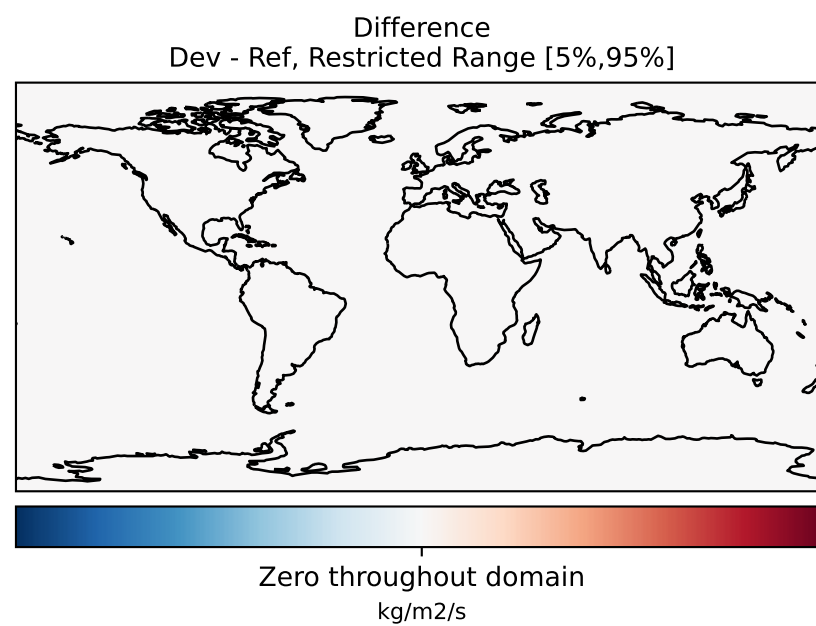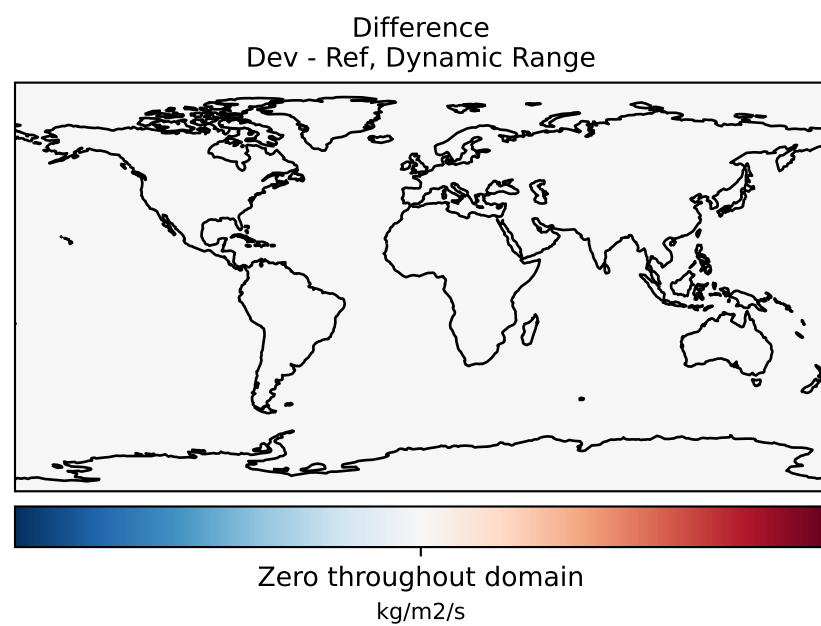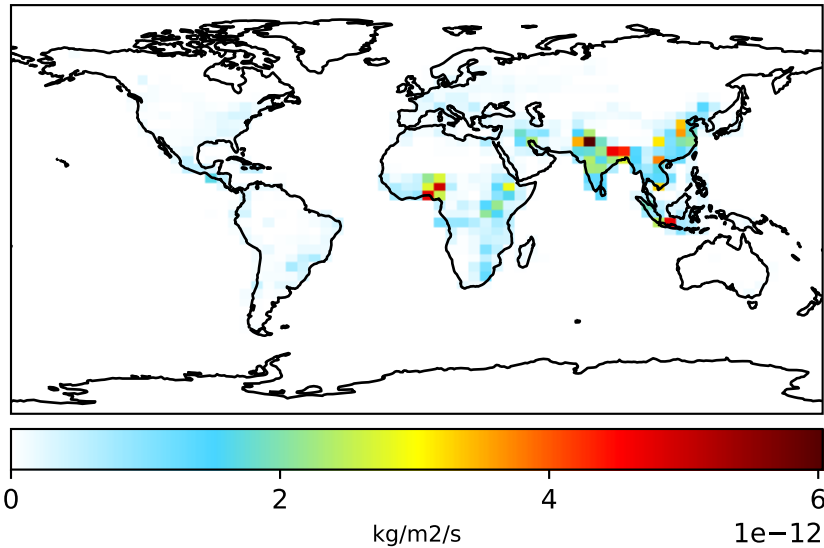
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
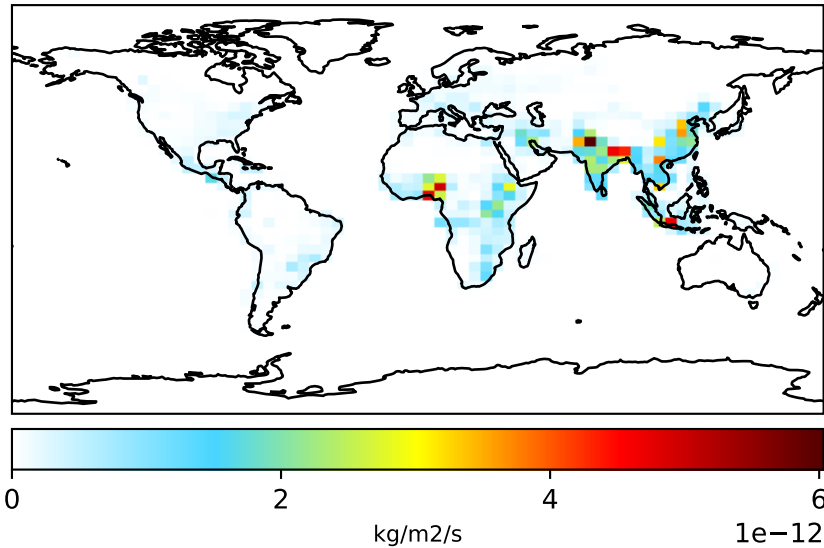unitless

Ref and Dev equal throughout domain
unitless

EmisALD2_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
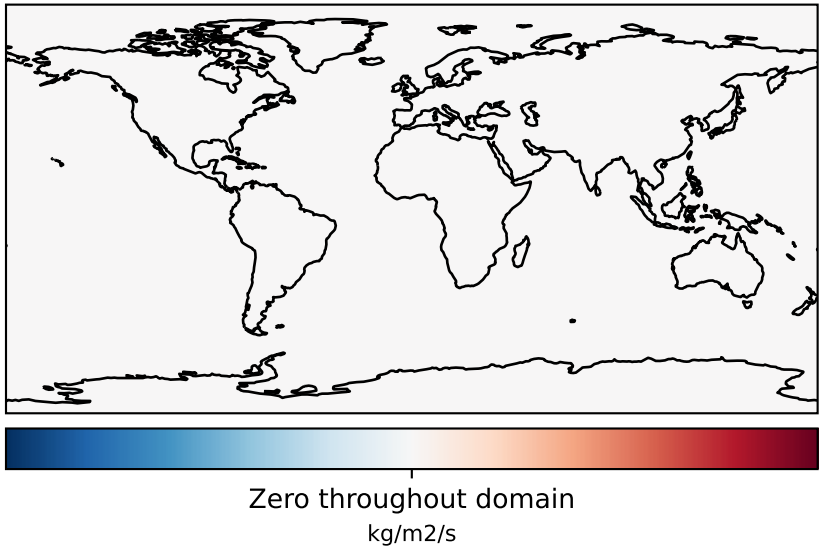unitless

EmisALD2_Biogenic
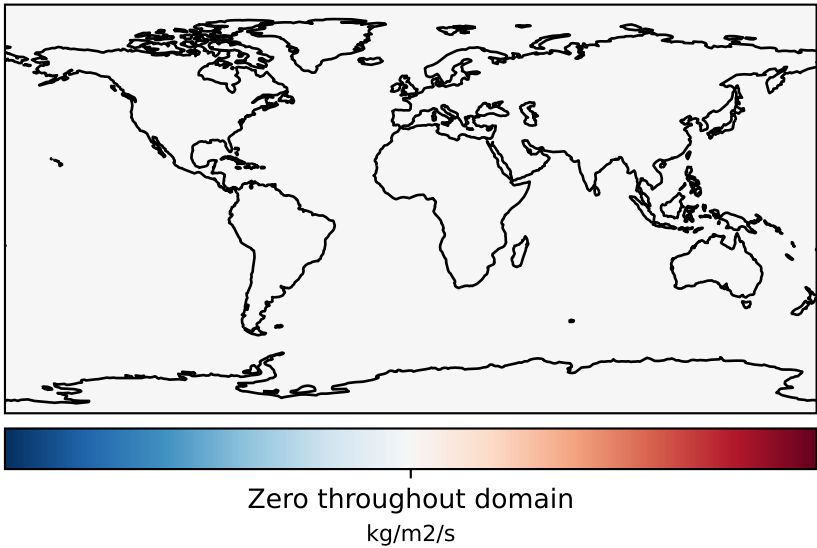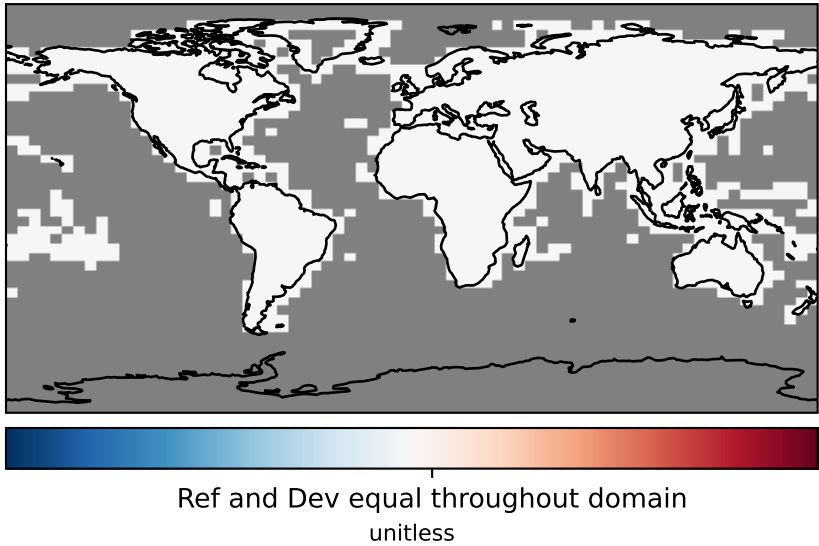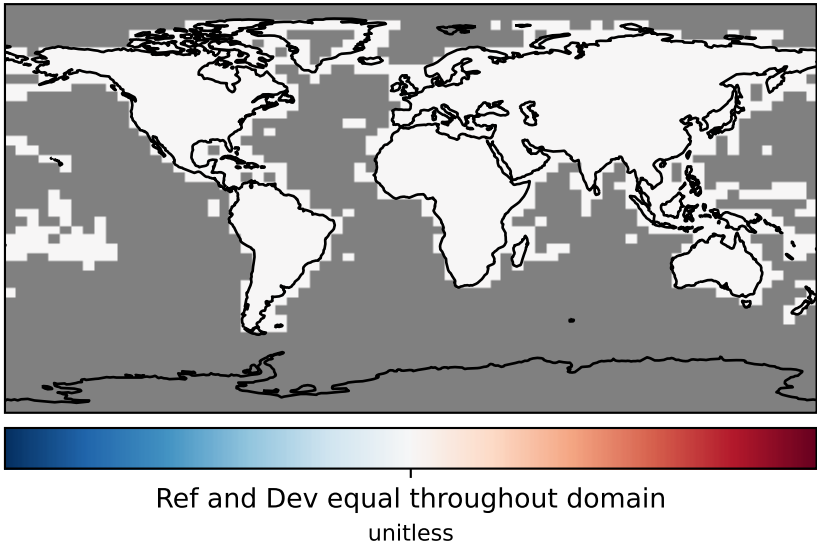

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

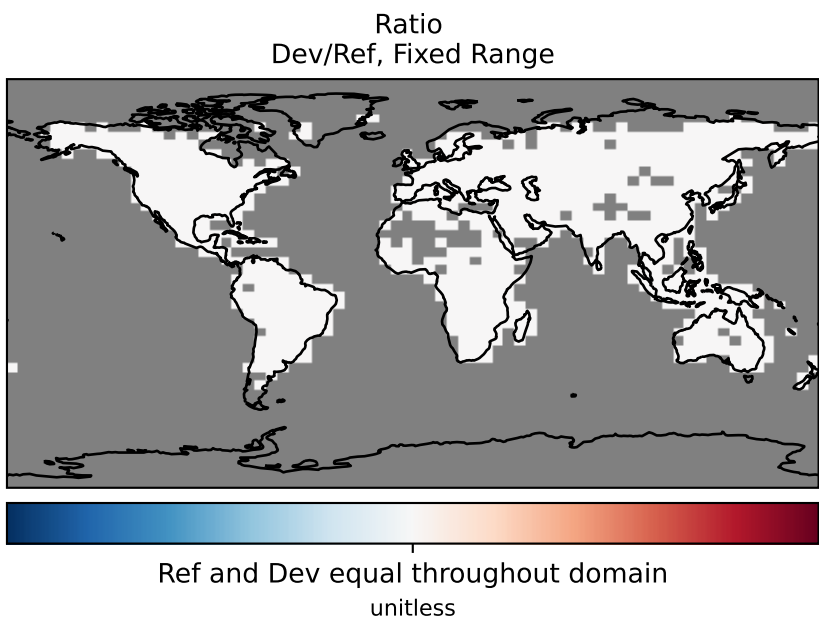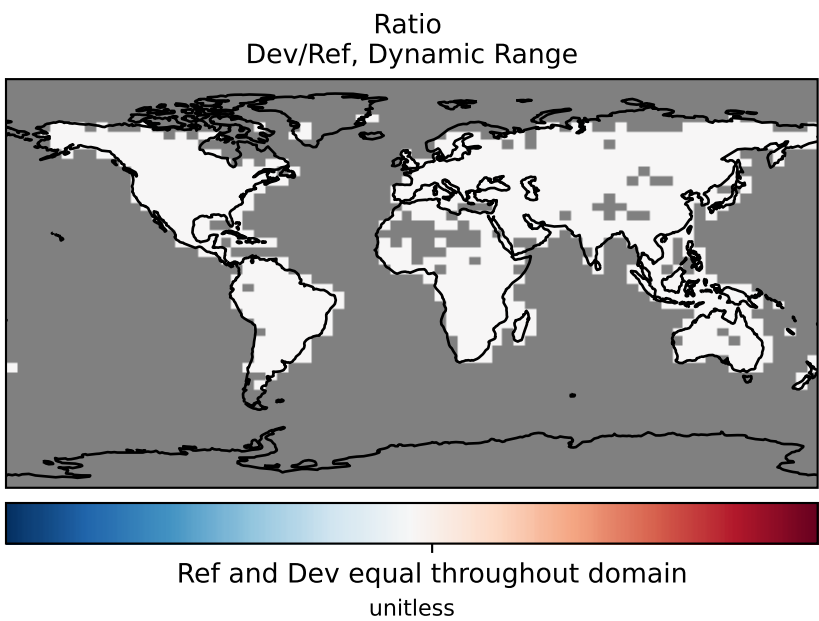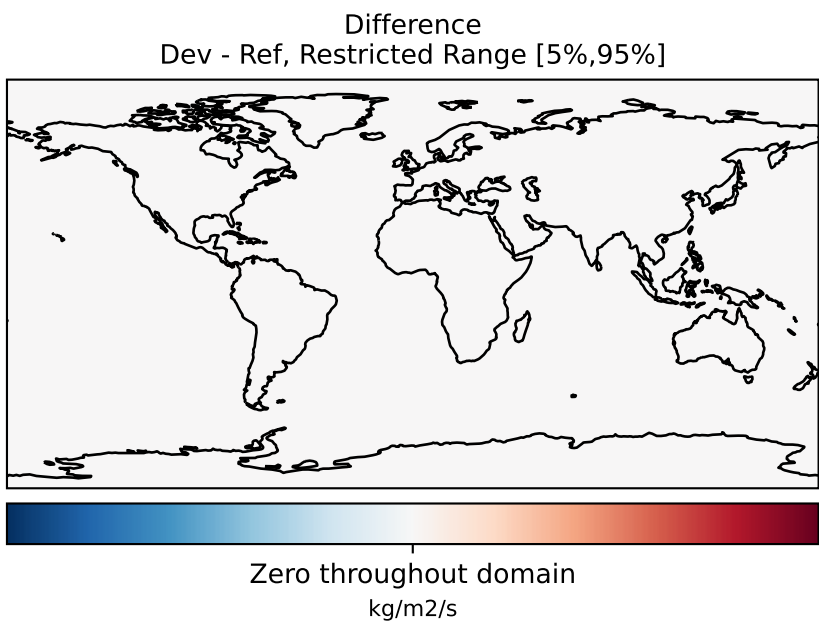Zero throughout domain
kg/m2/s
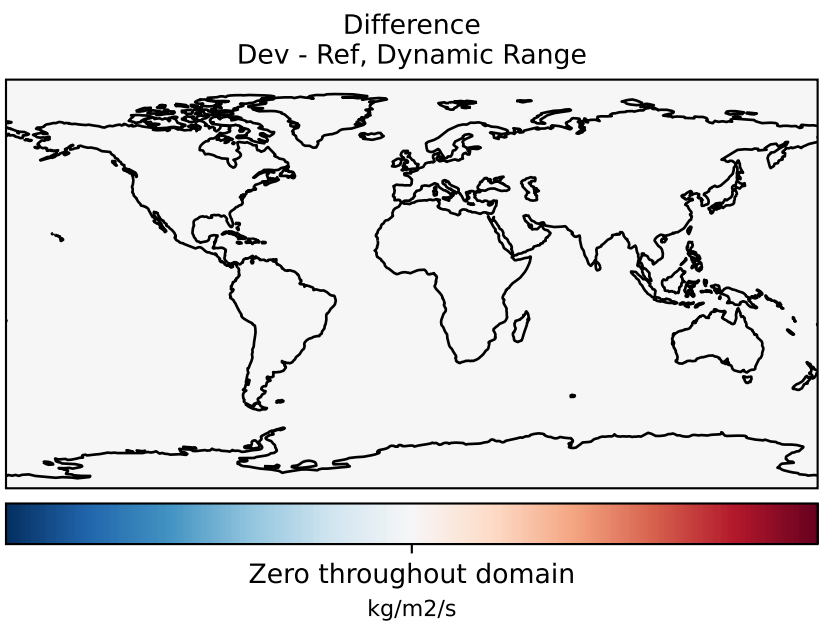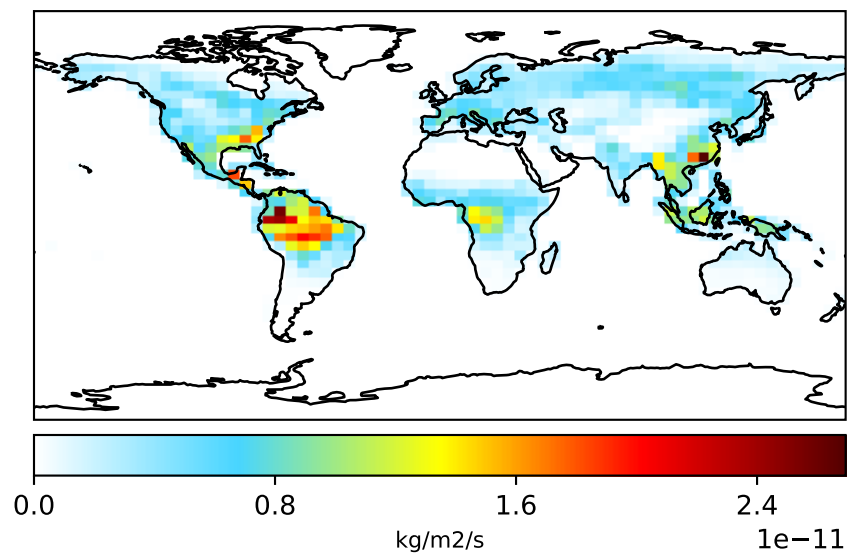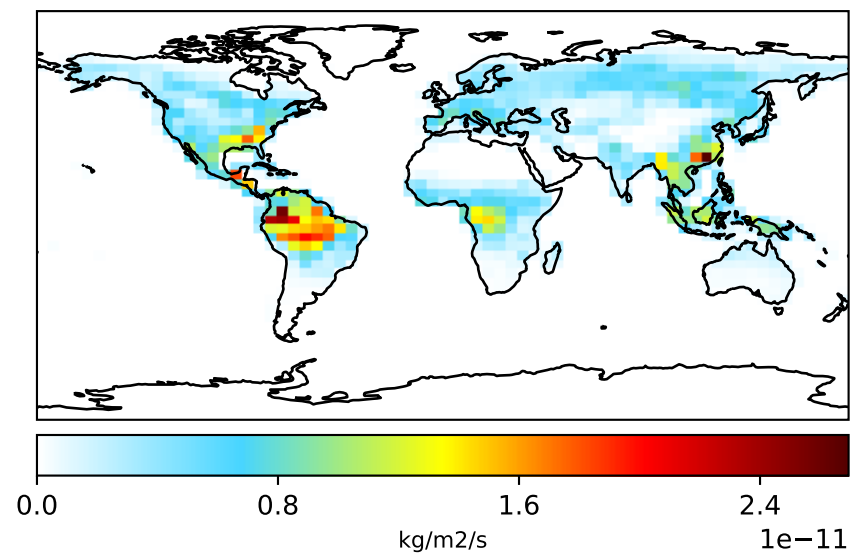
Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

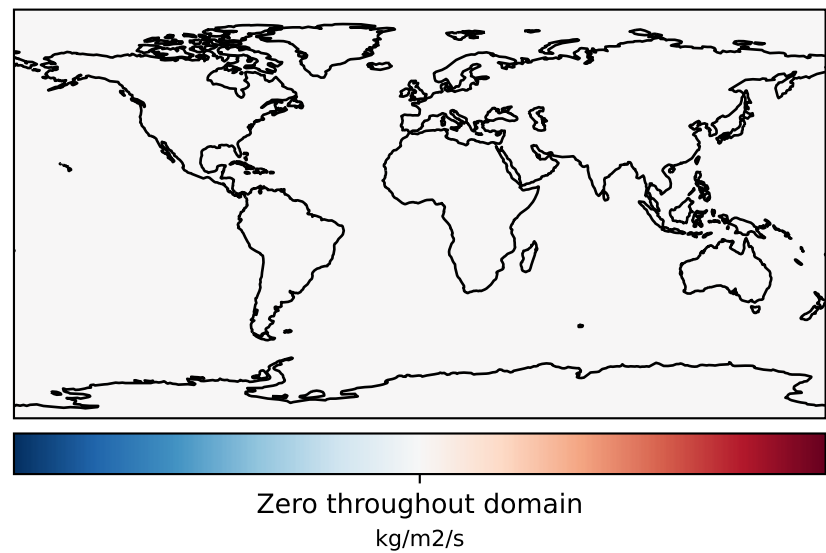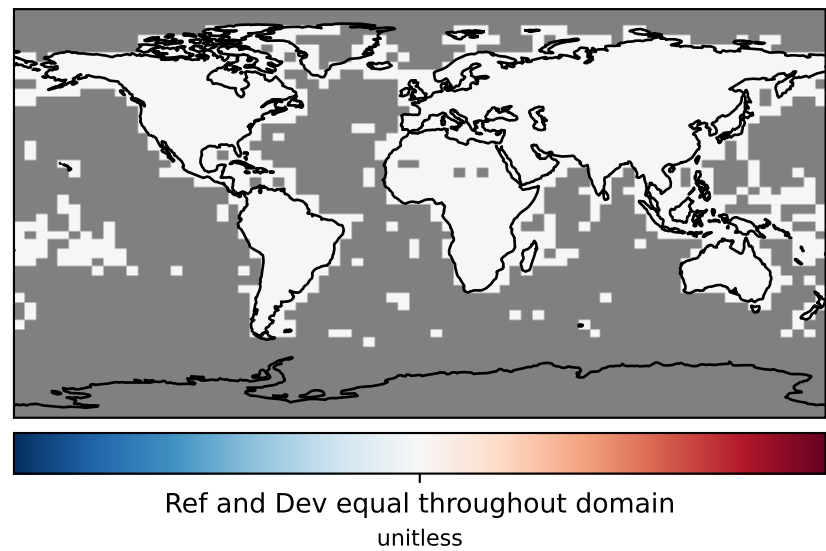# EmisALD2_Ocean

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

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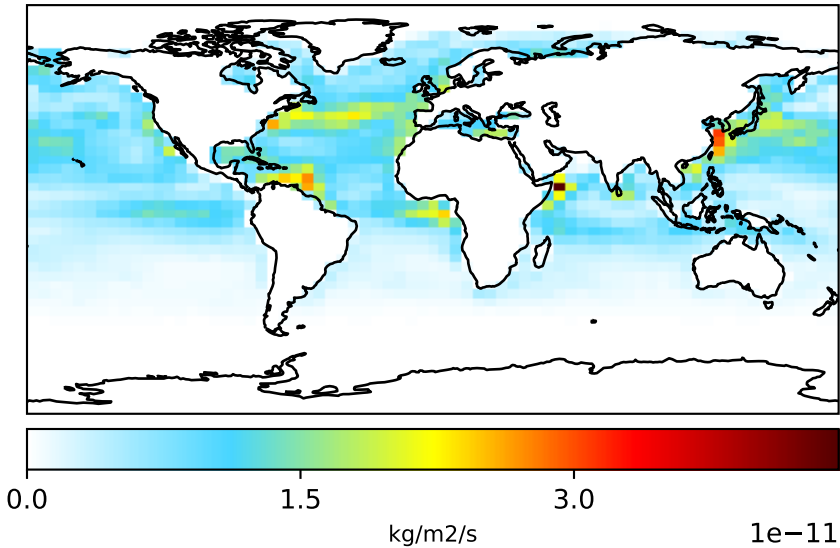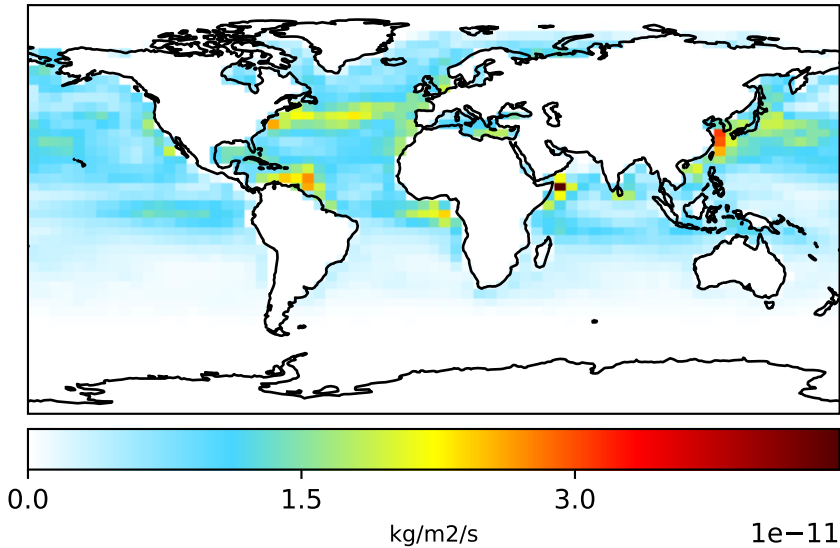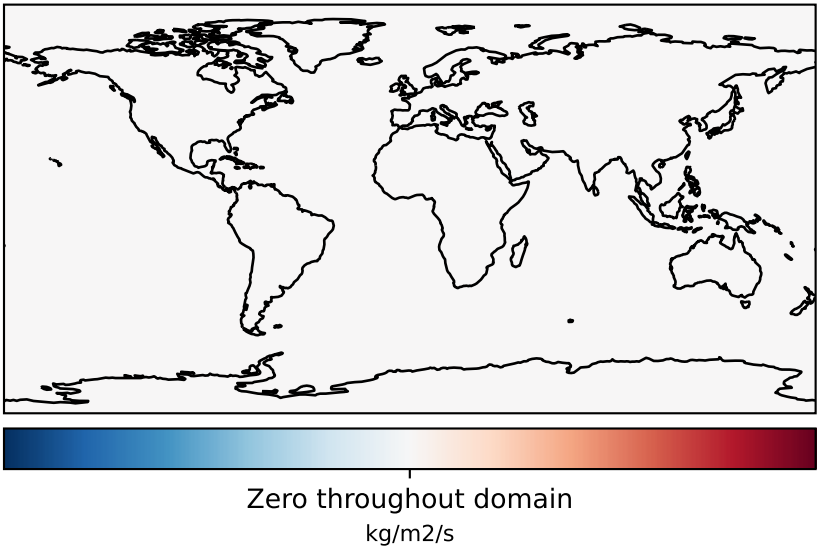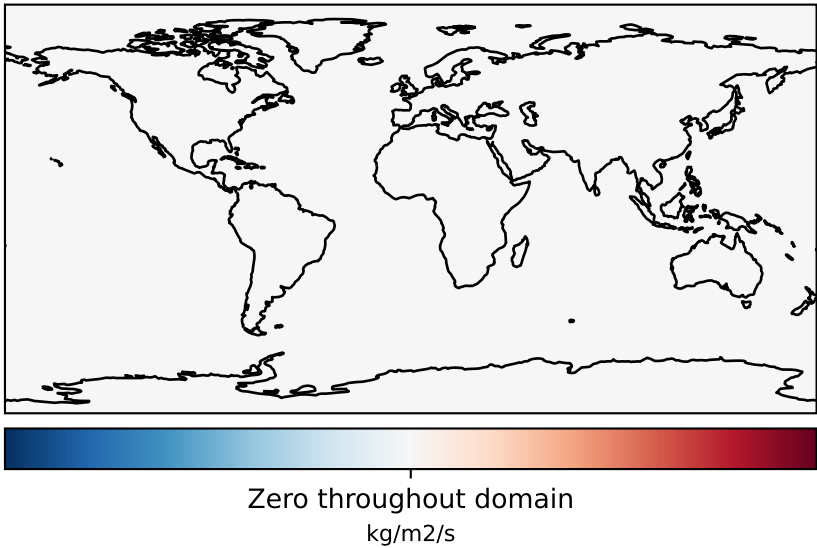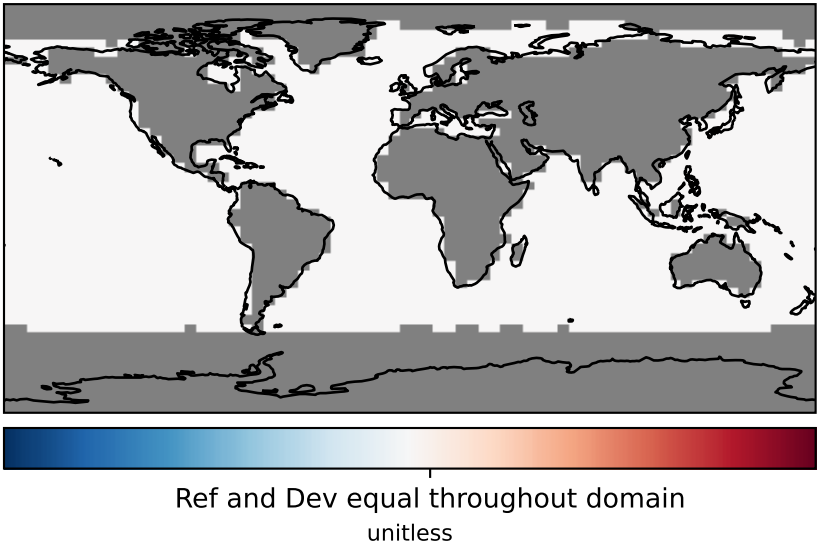
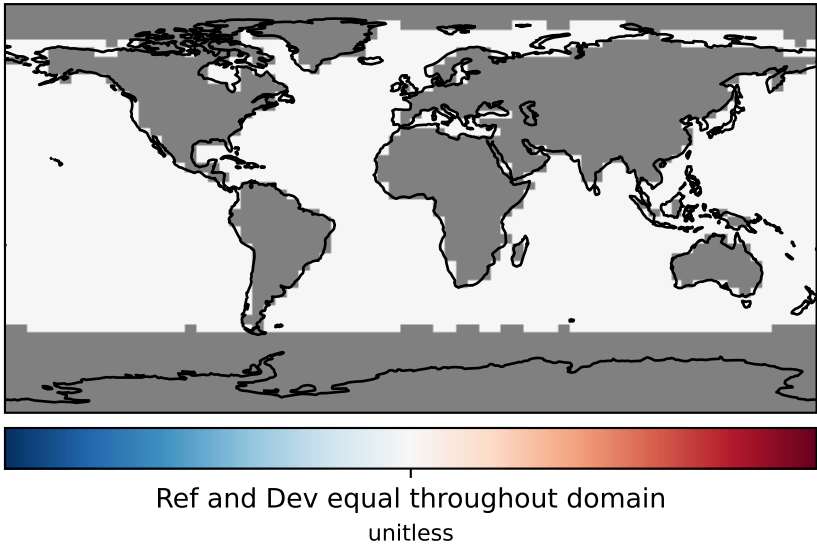Difference
Dev - Ref, Restricted Range [5%,95%]

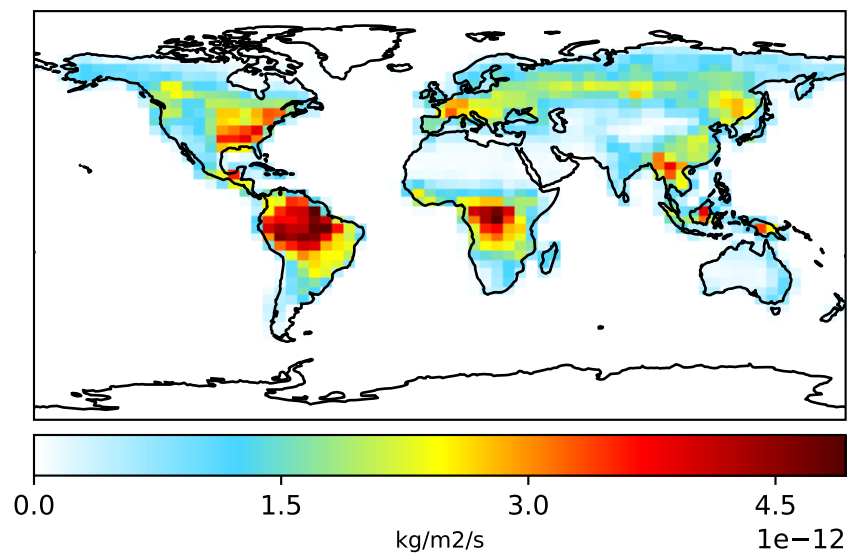Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

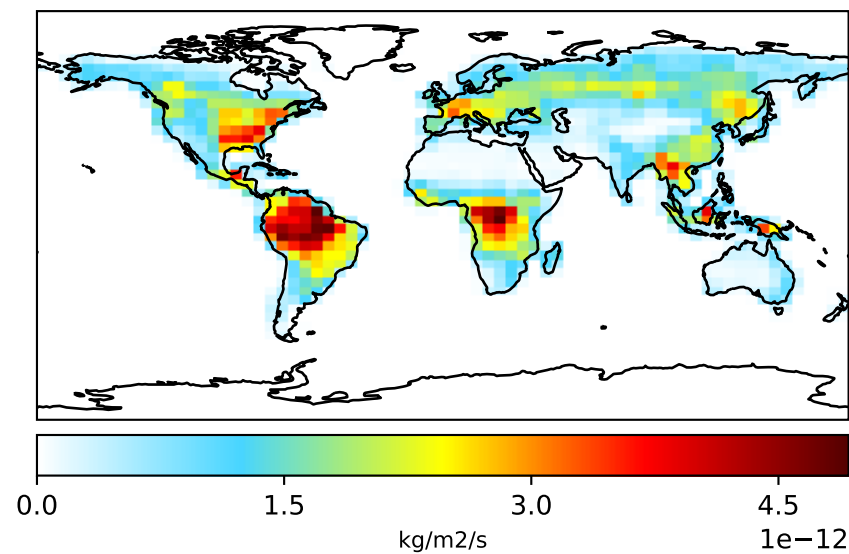Ref and Dev equal throughout domain
unitless

EmisALD2_PlantDecay

EmisALD2_Ship

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain
unitless

Undefined throughout domain
unitless

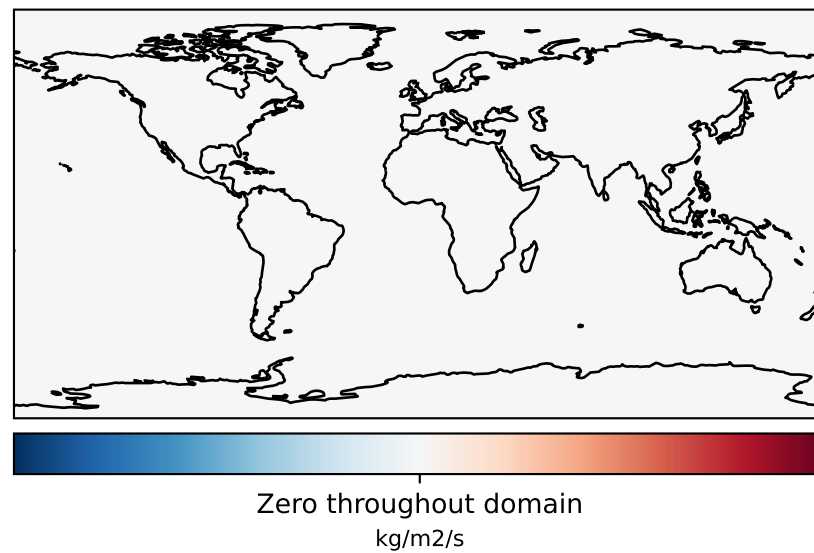# EmisALD2_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
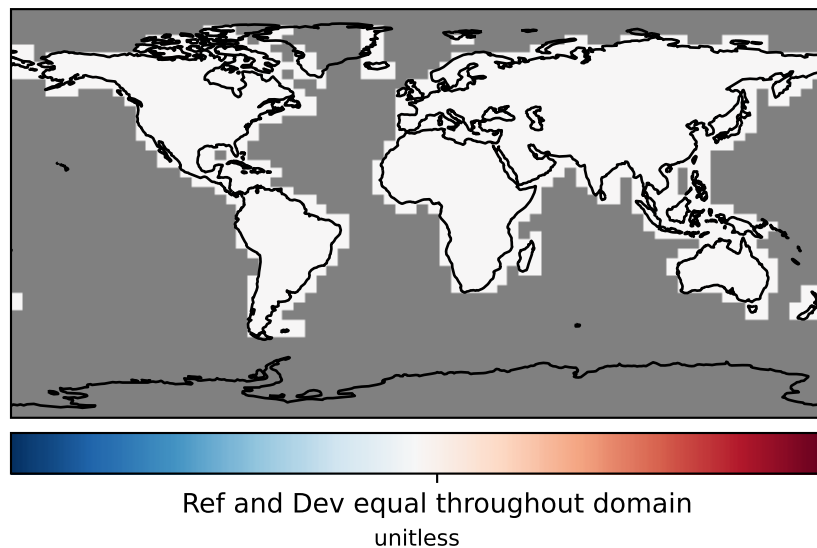4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

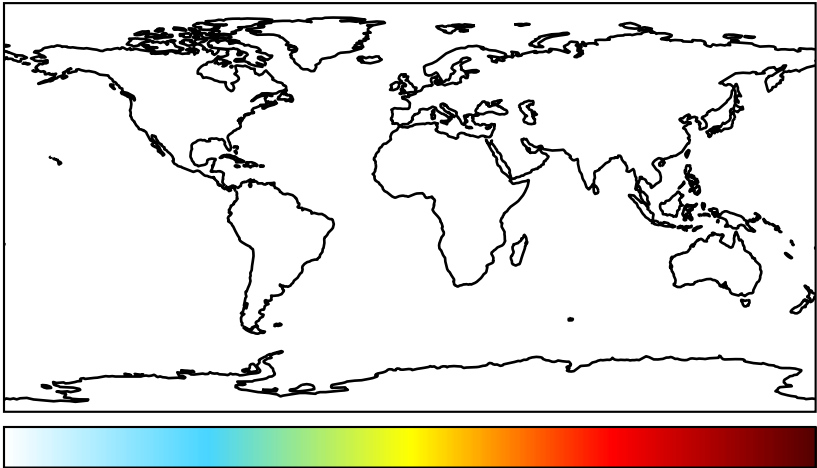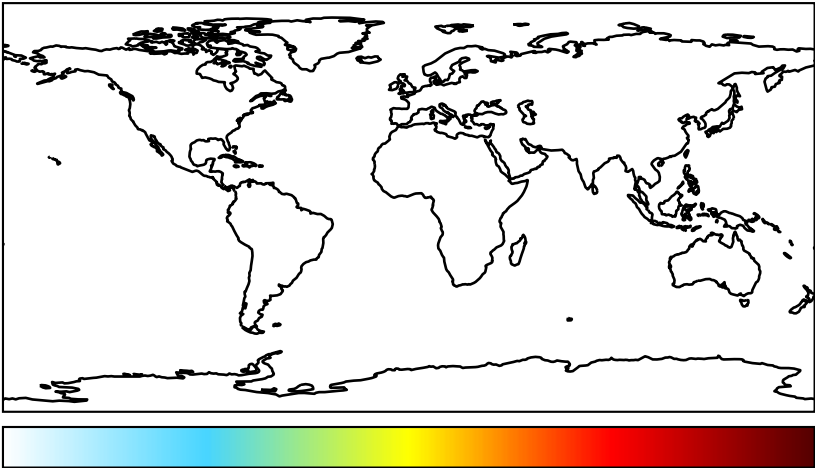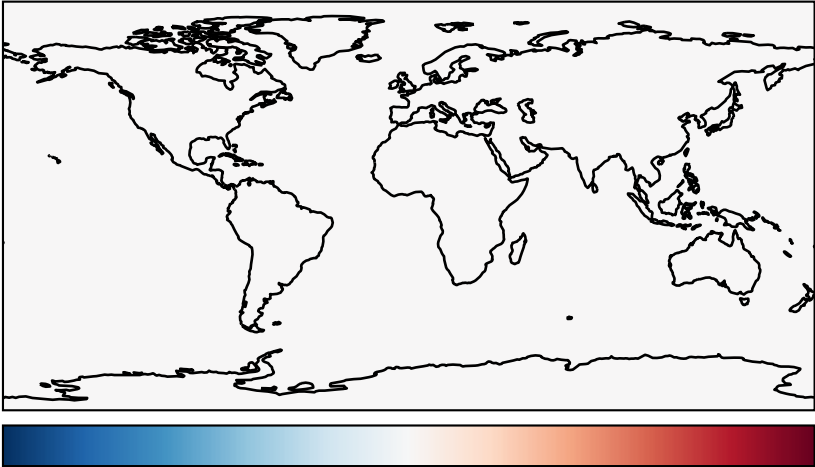Difference
Dev - Ref, Restricted Range [5%,95%]
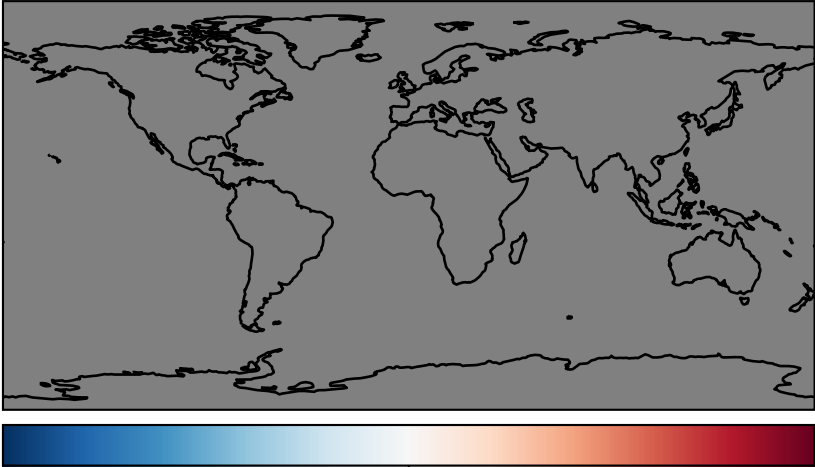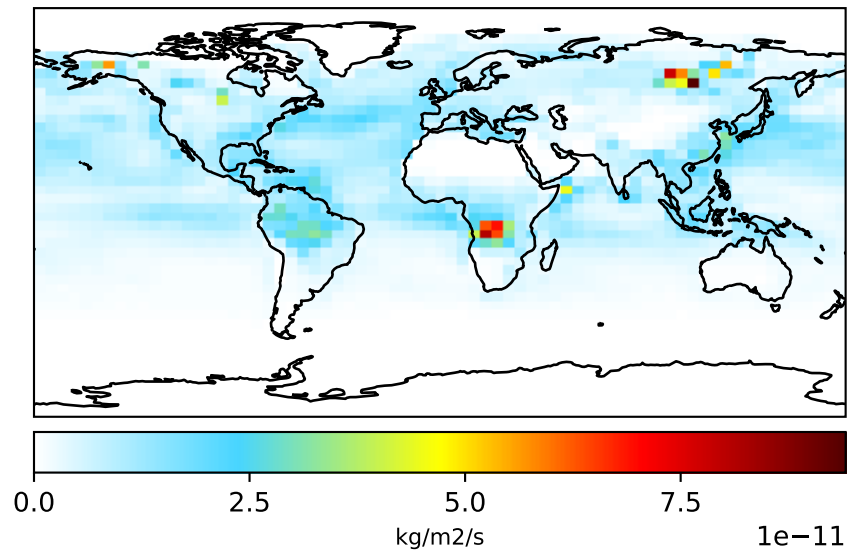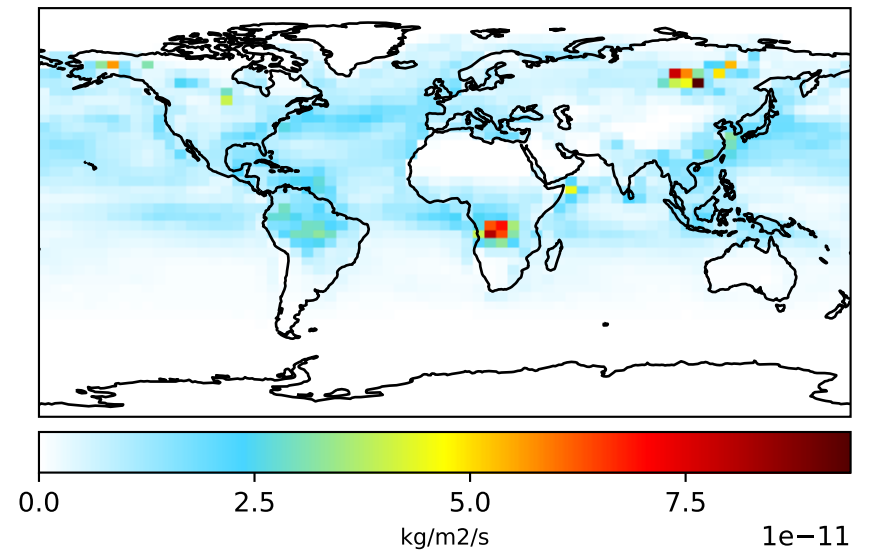
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
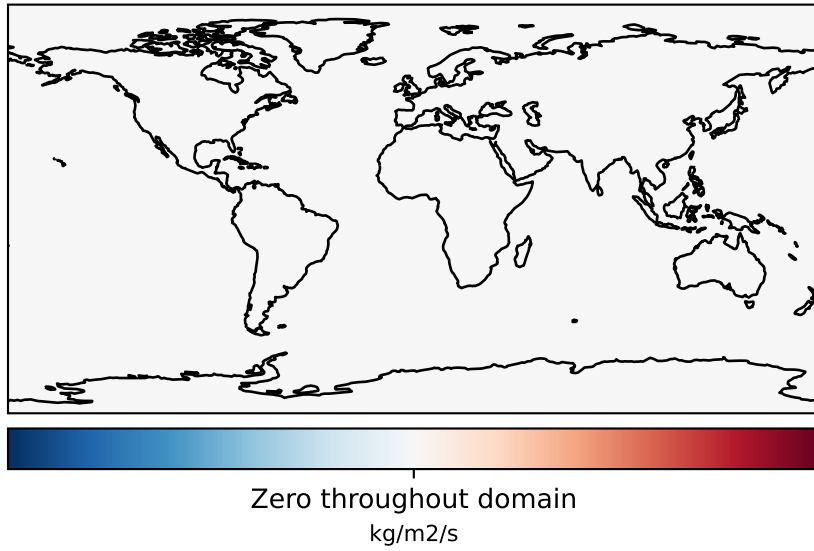unitless

EmisCH2O_Aircraft

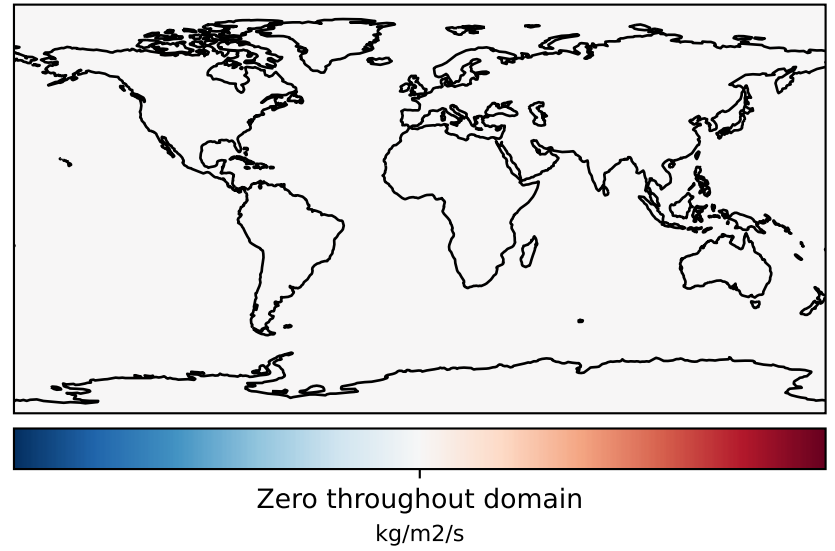

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

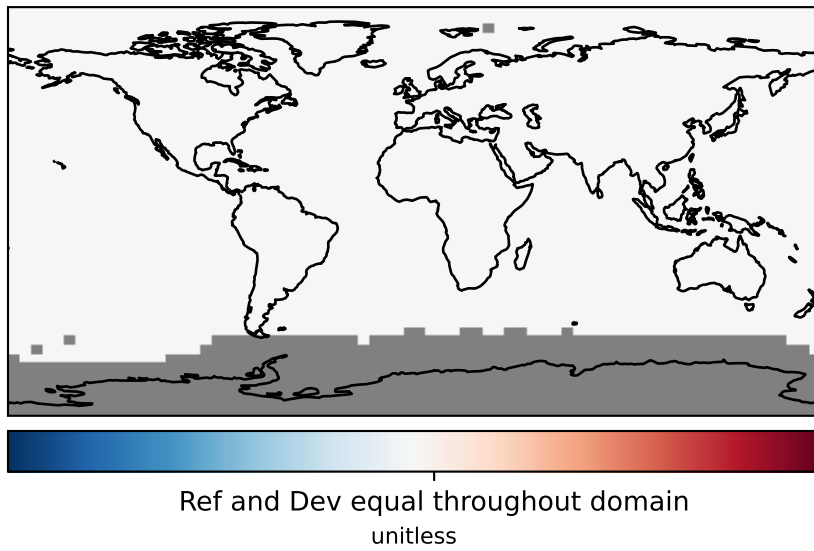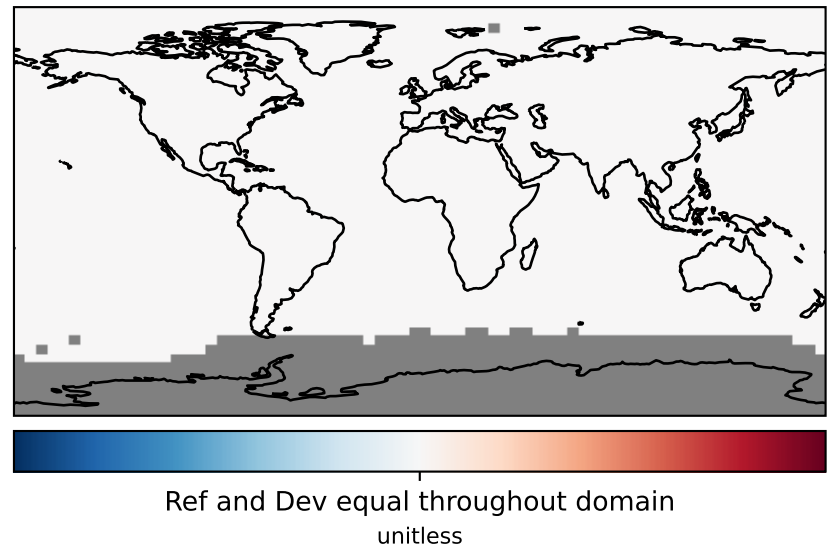gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range
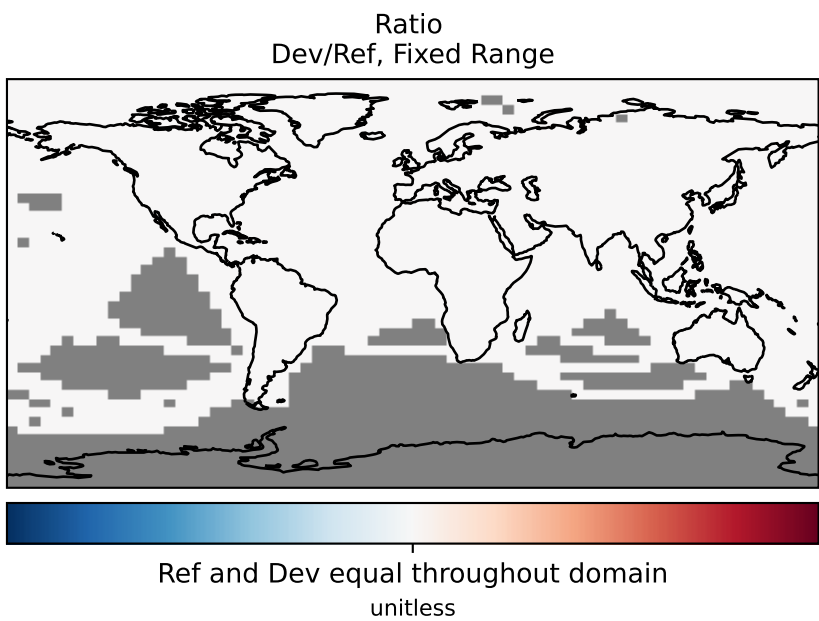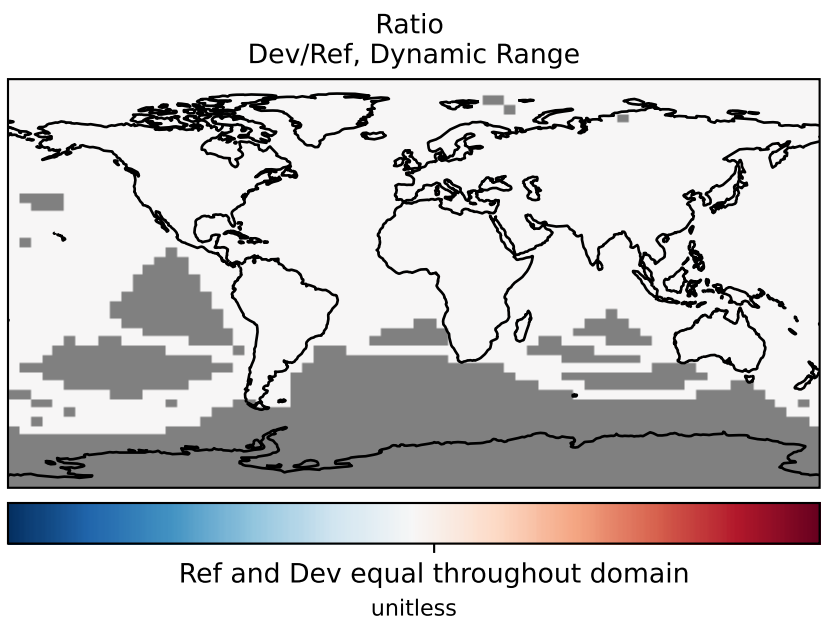
Difference
Dev - Ref, Restricted Range [5%,95%]
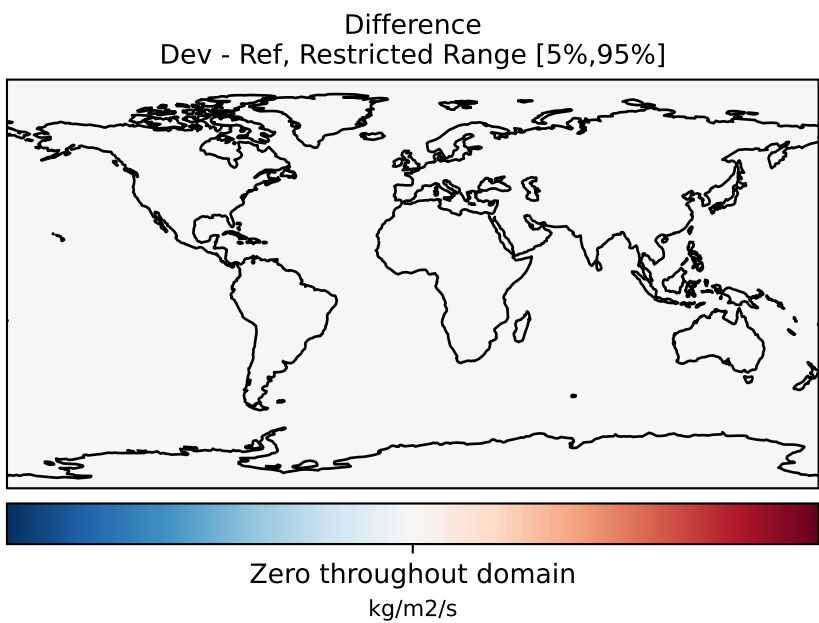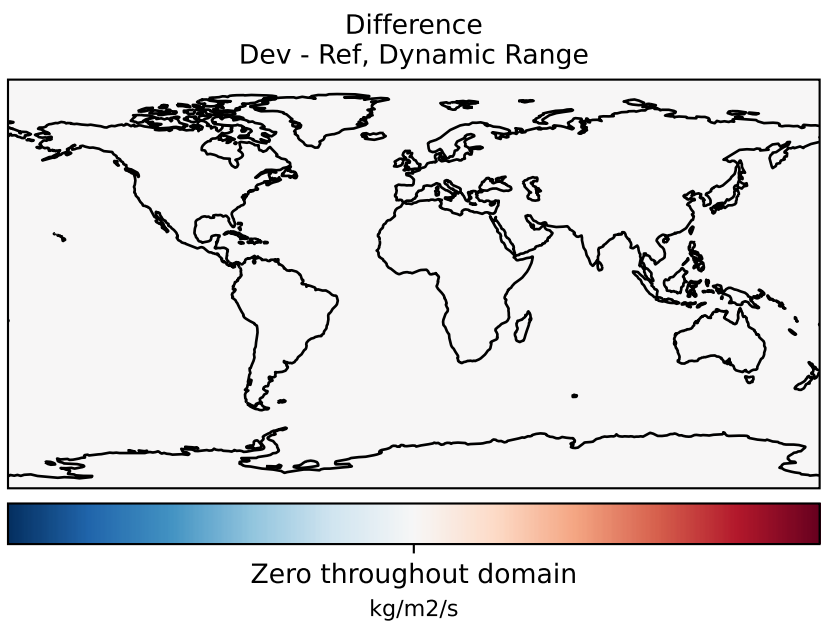
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisCH2O_Anthro

EmisCH2O_BioBurn

EmisCH2O_Ship

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

Zero throughout domain
kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (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
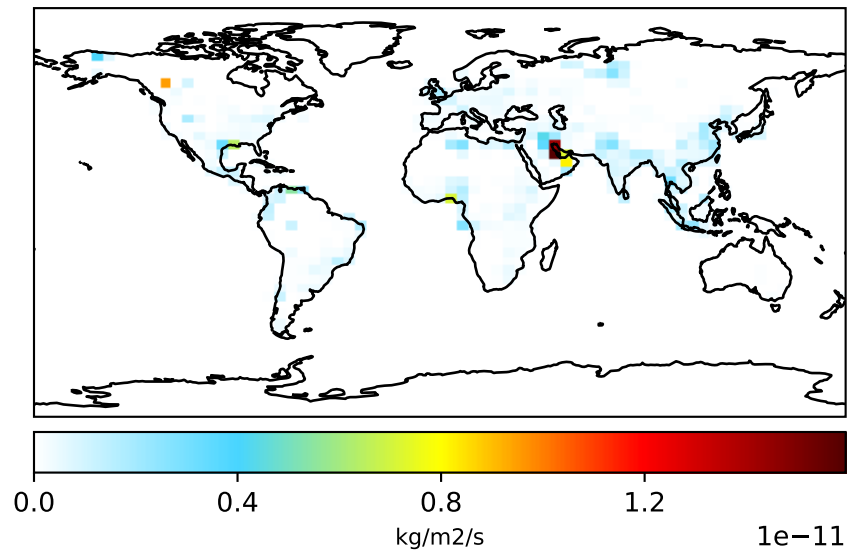
Undefined throughout domain
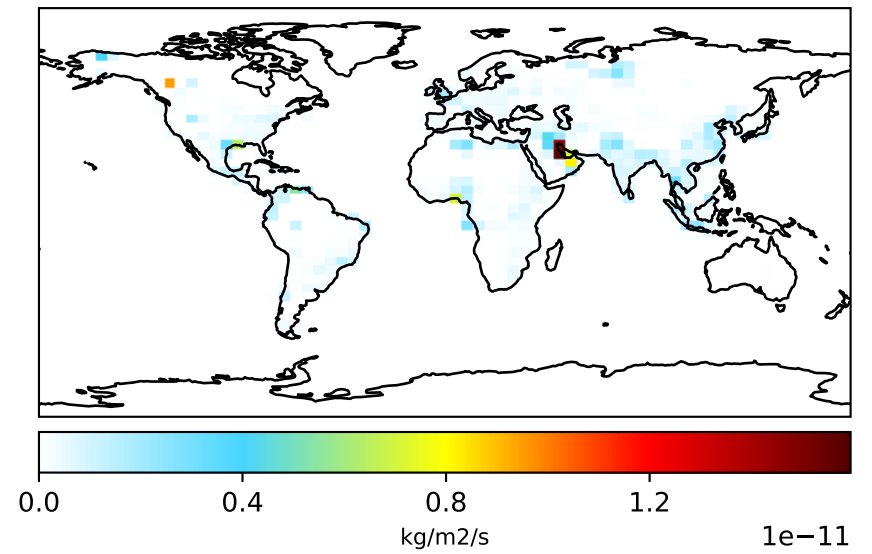unitless

EmisCH2O_Total
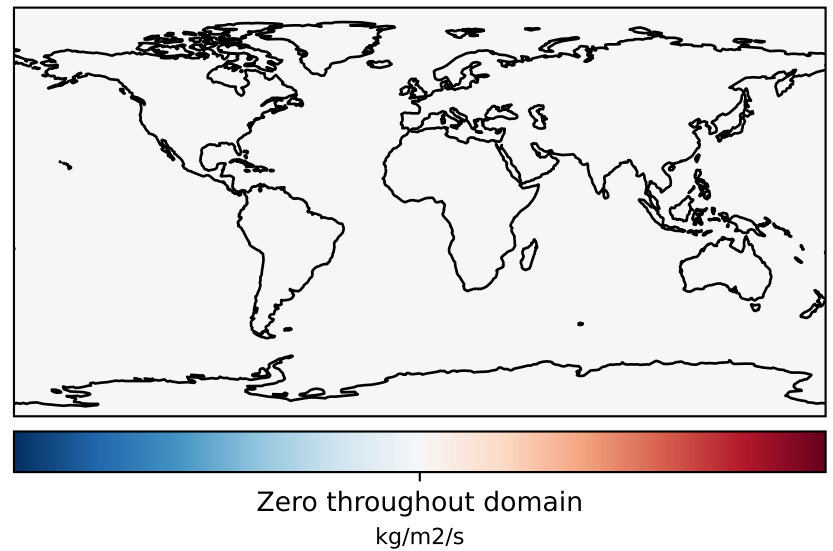
EmisGLYX_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s
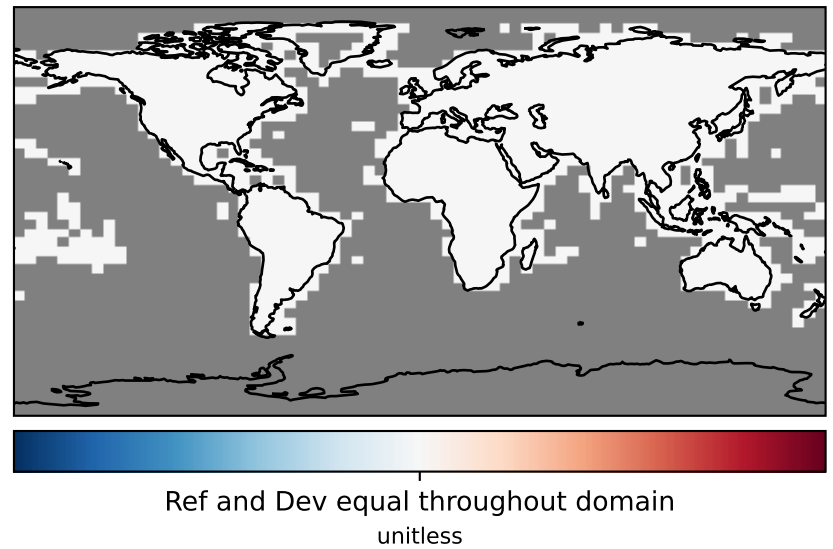
Difference
Dev - Ref, Dynamic Range
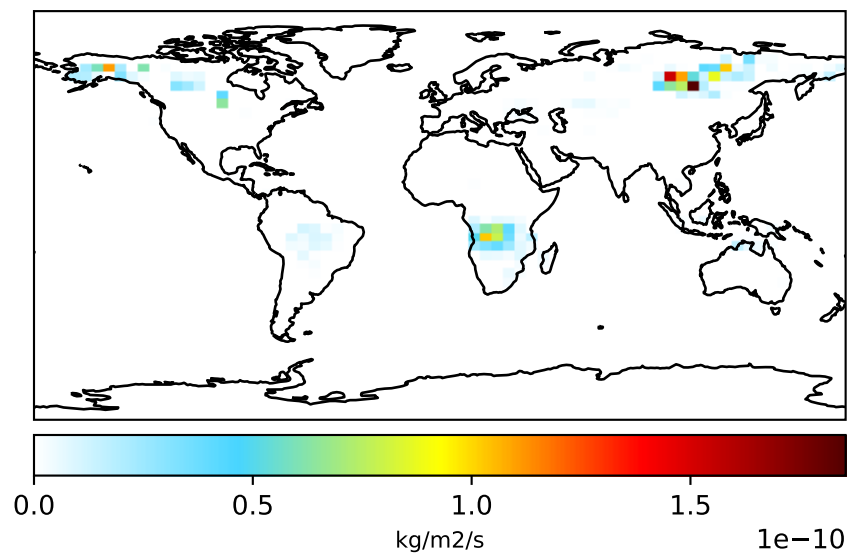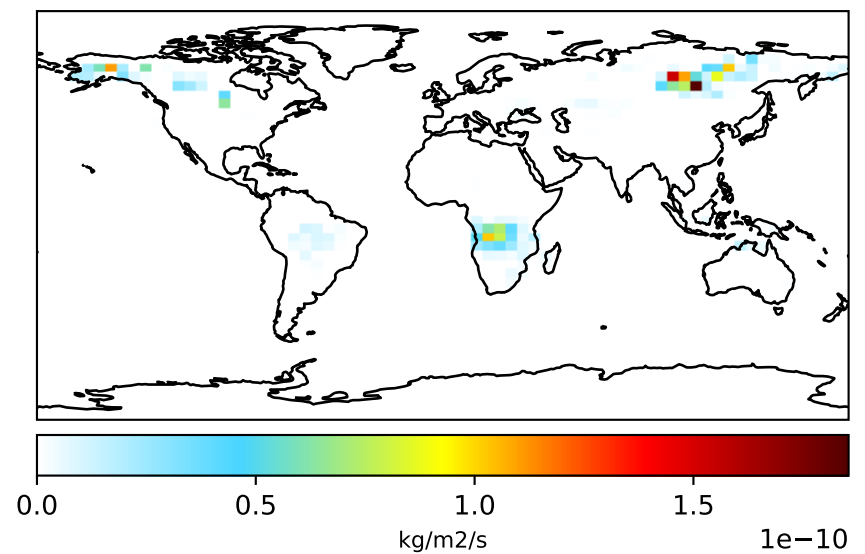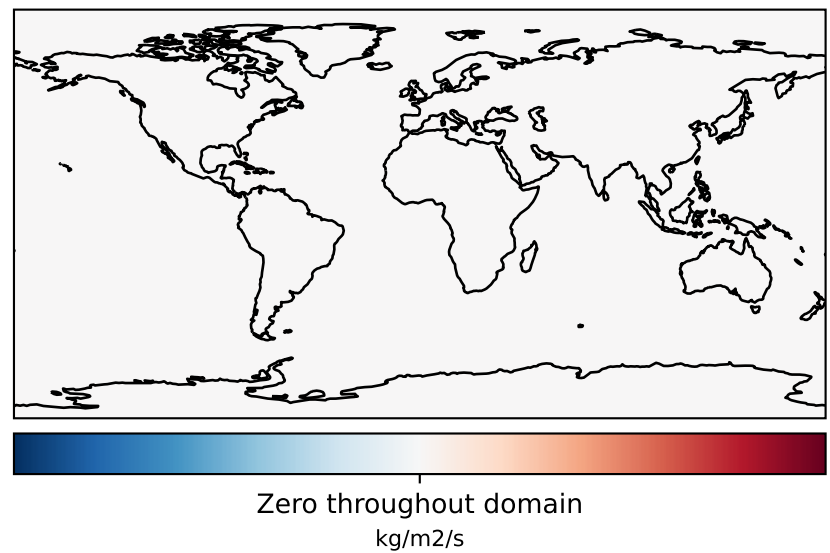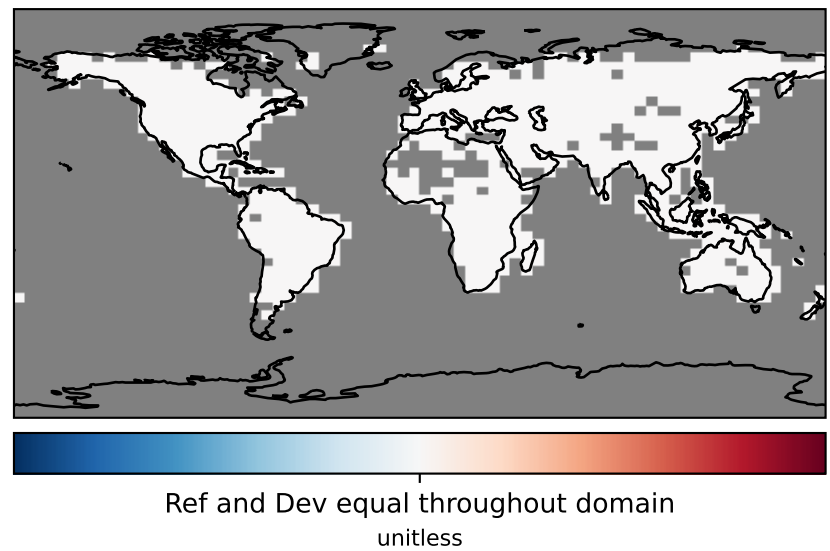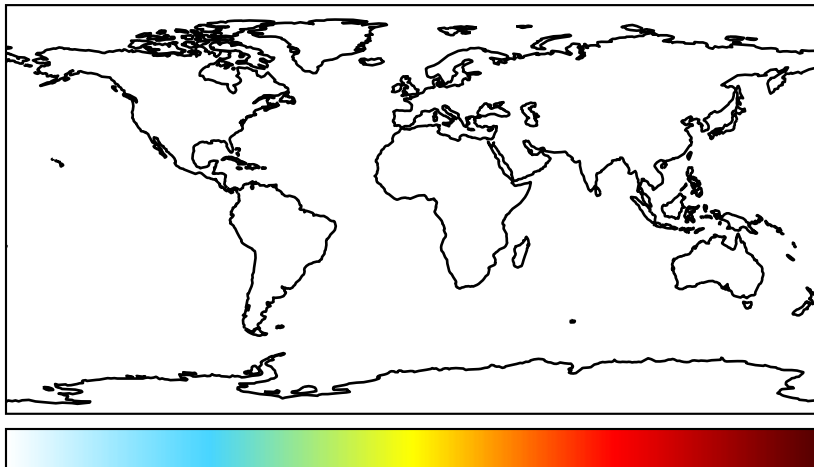
Difference
Dev - Ref, Restricted Range [5%,95%]

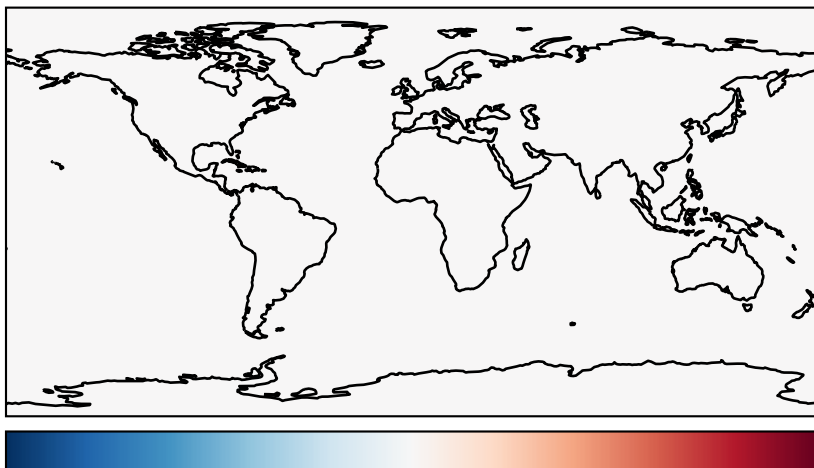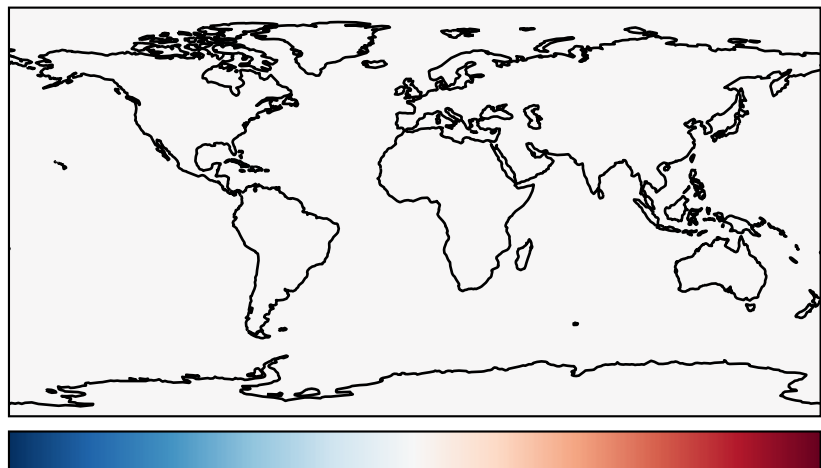Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisGLYX_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

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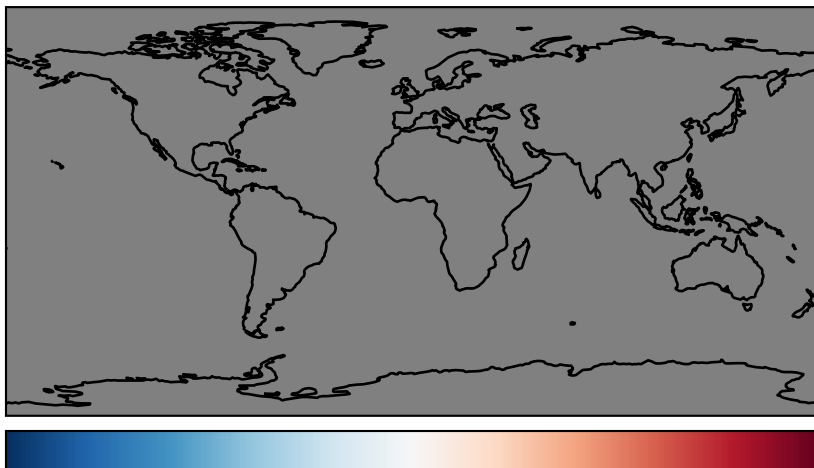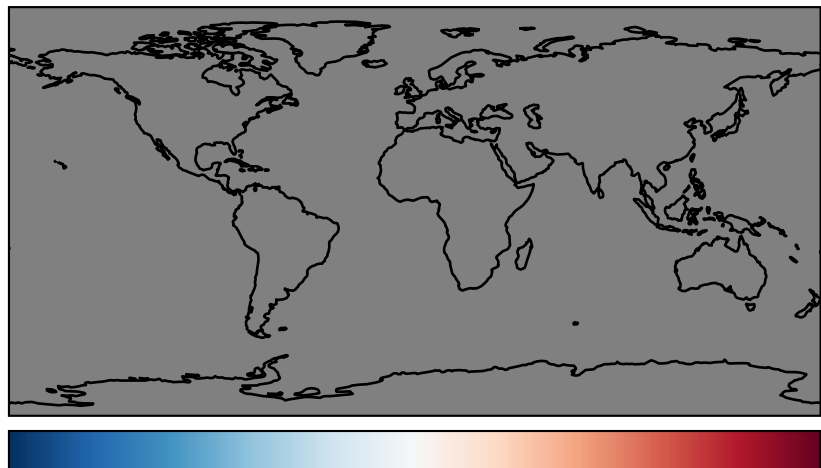
Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range
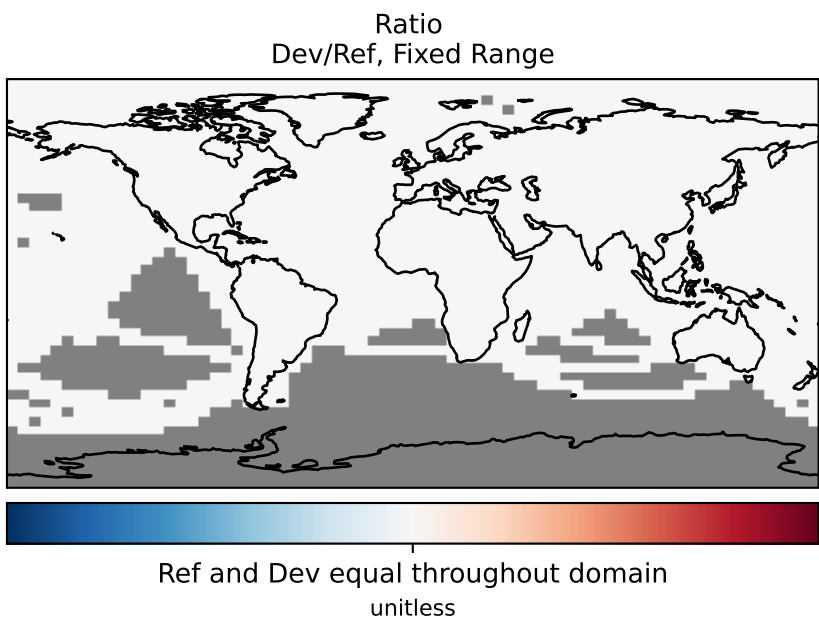
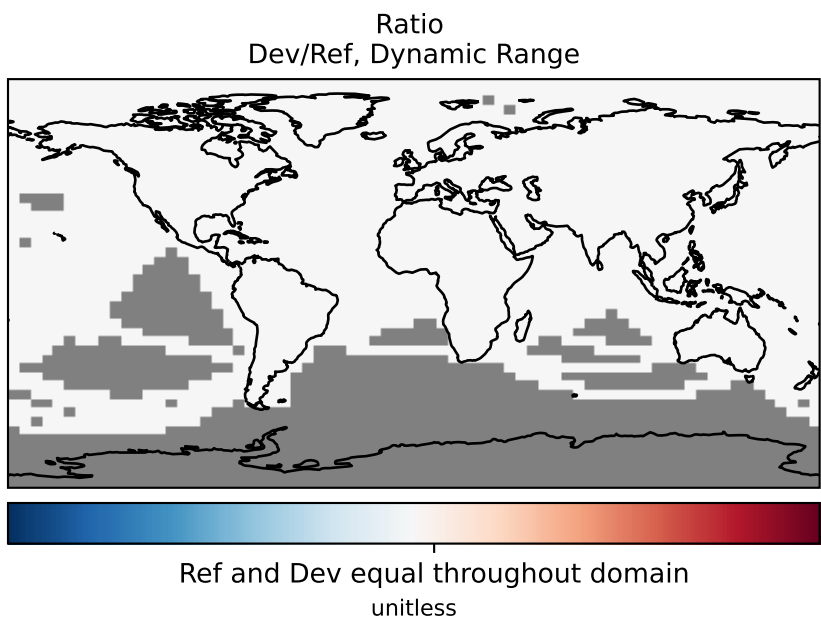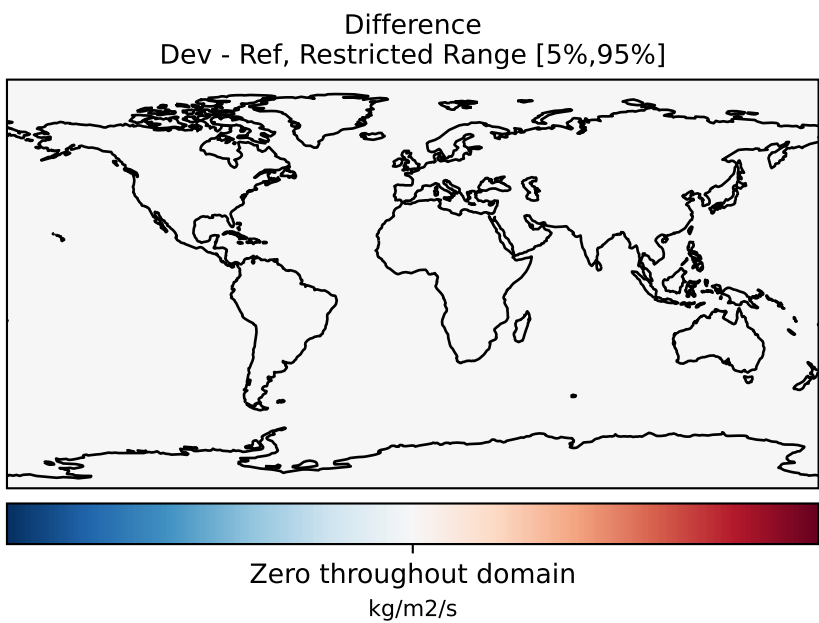Ref and Dev equal throughout domain
unitless

EmisMACR_Aircraft

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

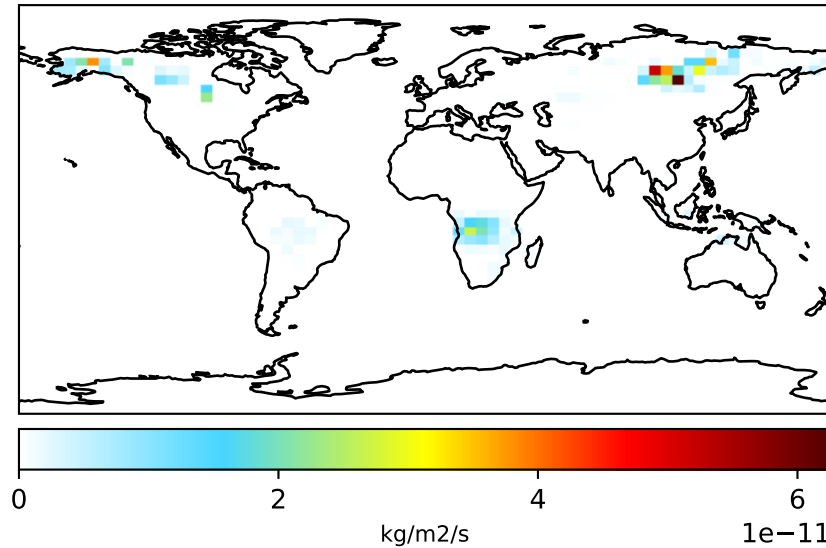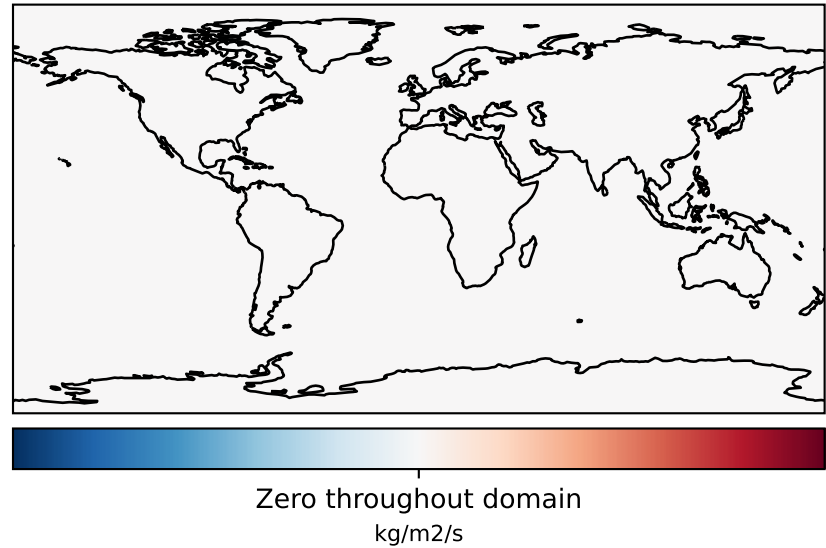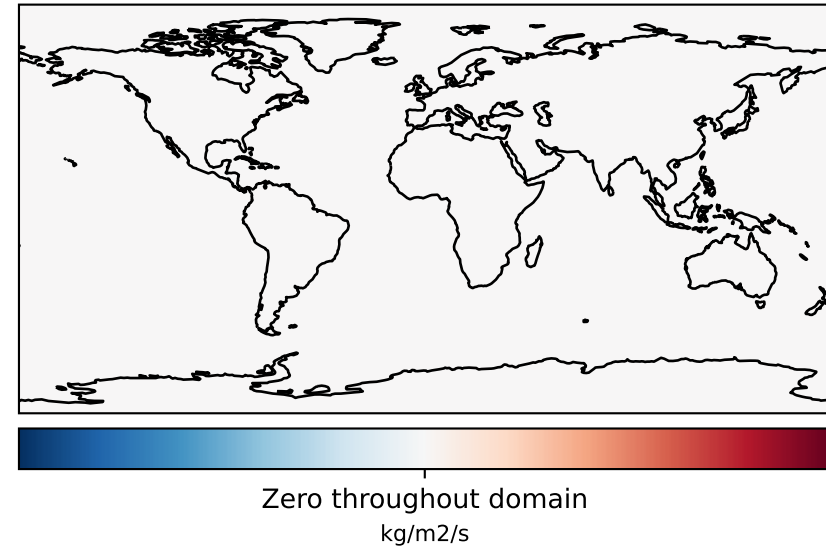Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisMACR_Total

EmisRCHO_Aircraft

EmisRCHO_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
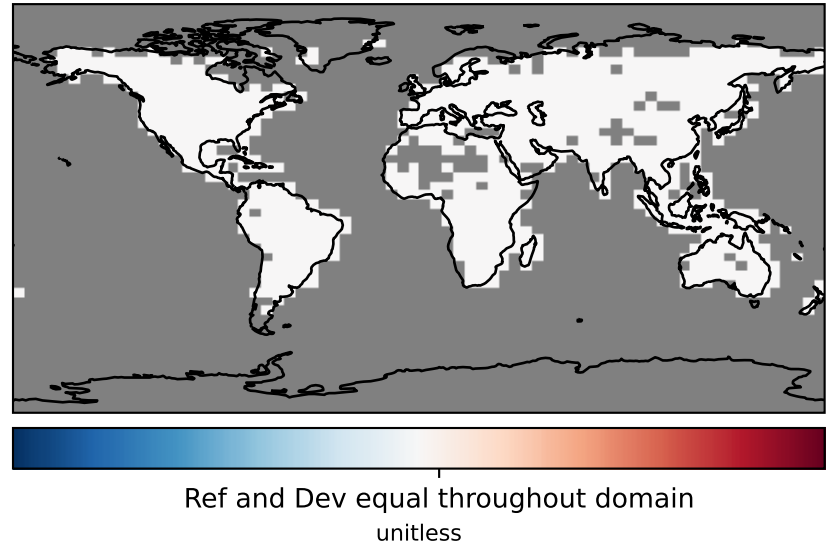4.0x5.0

kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
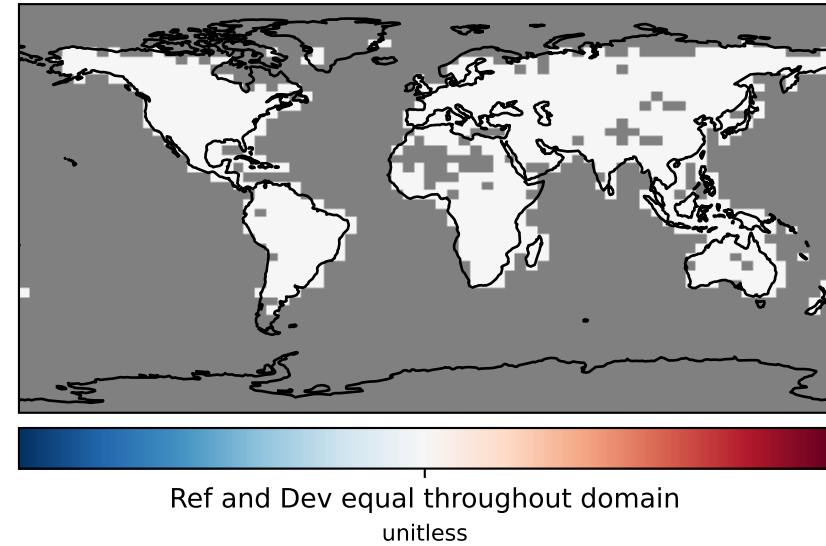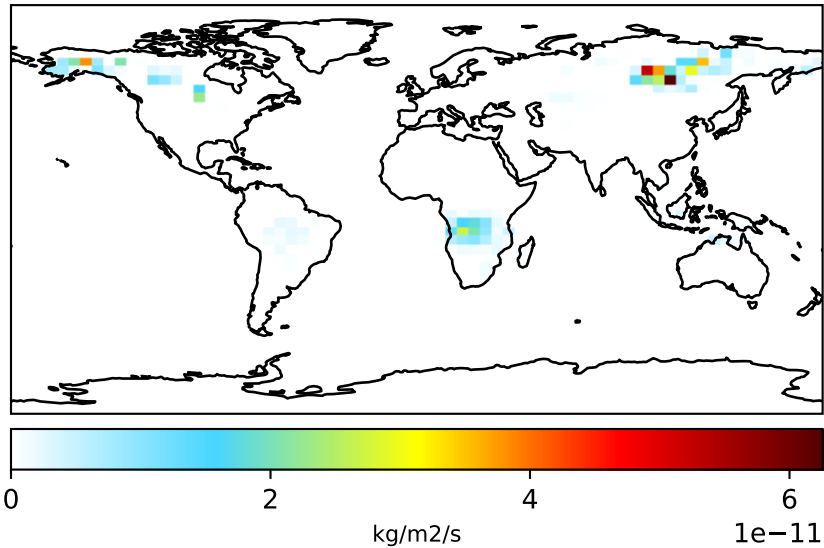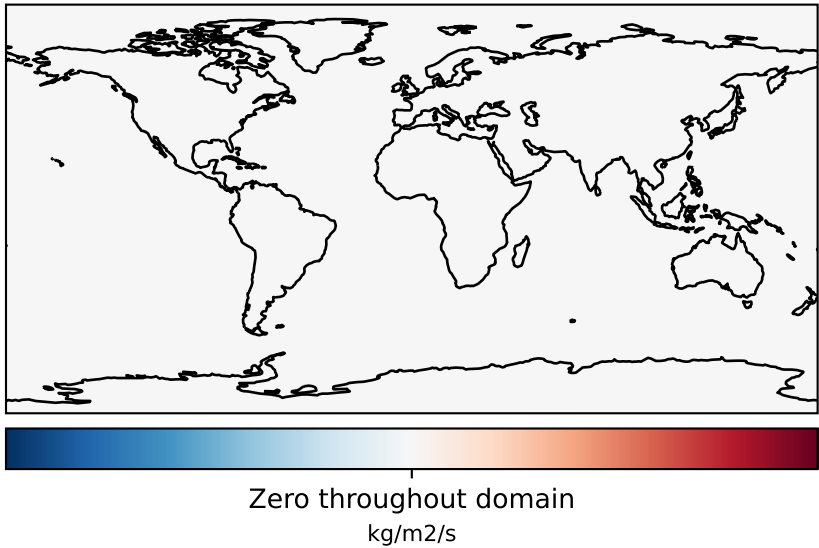4.0x5.0

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

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisRCHO_Total

EmisACET_BioBurn

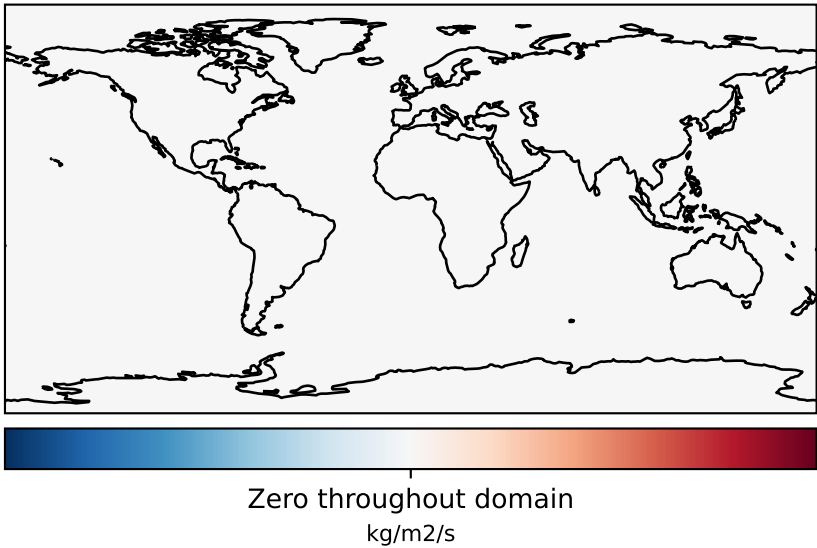gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
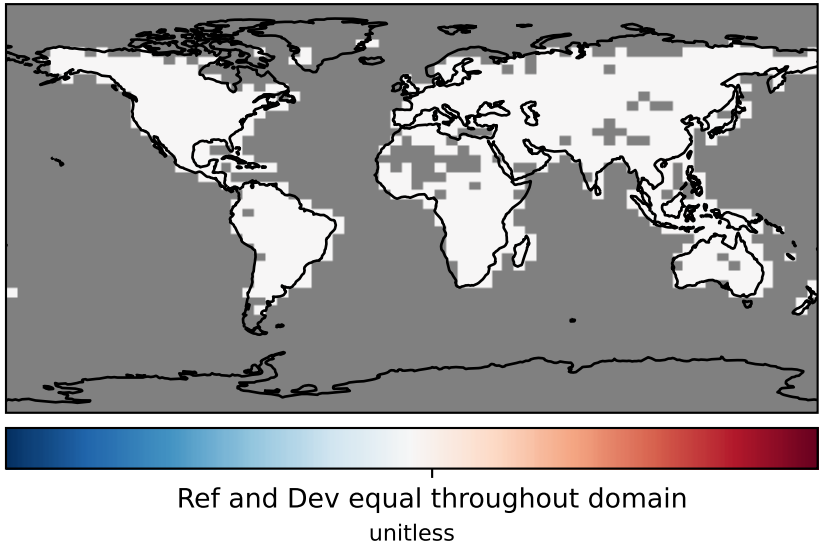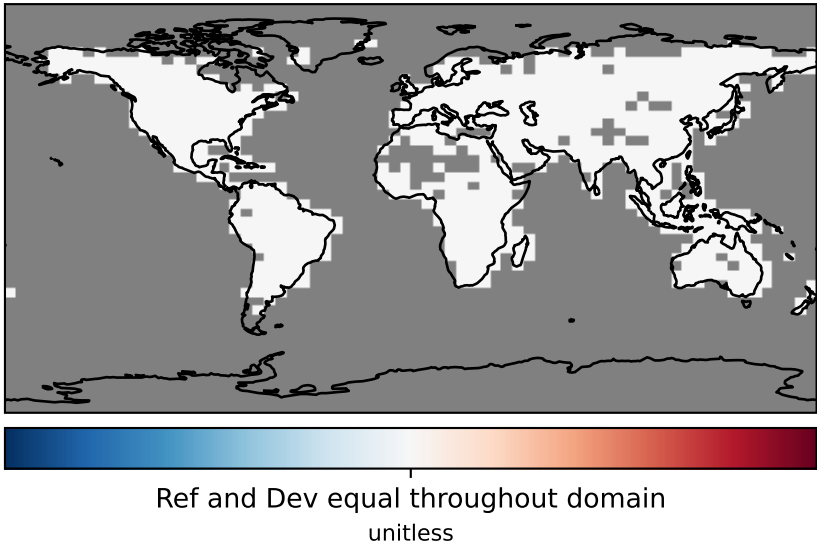4.0x5.0

kg/m2/s

kg/m2/s

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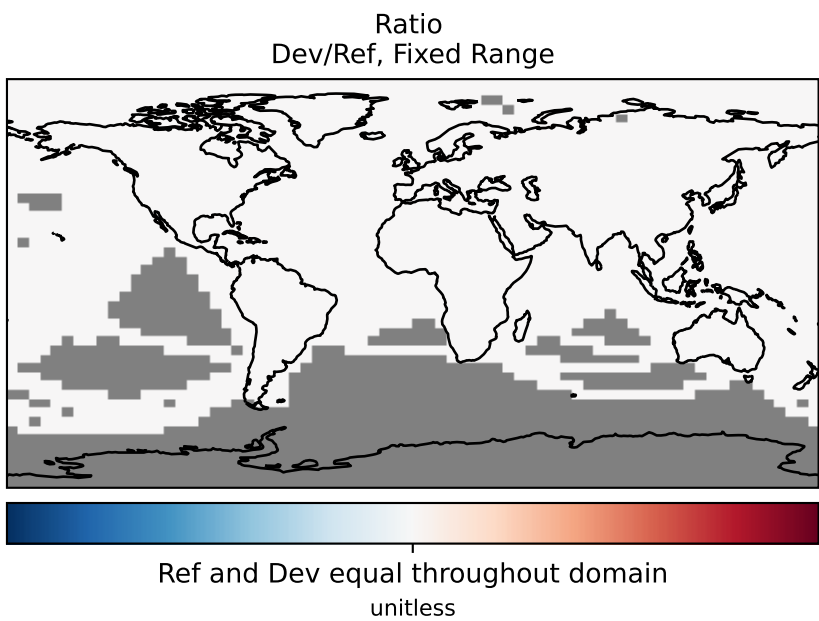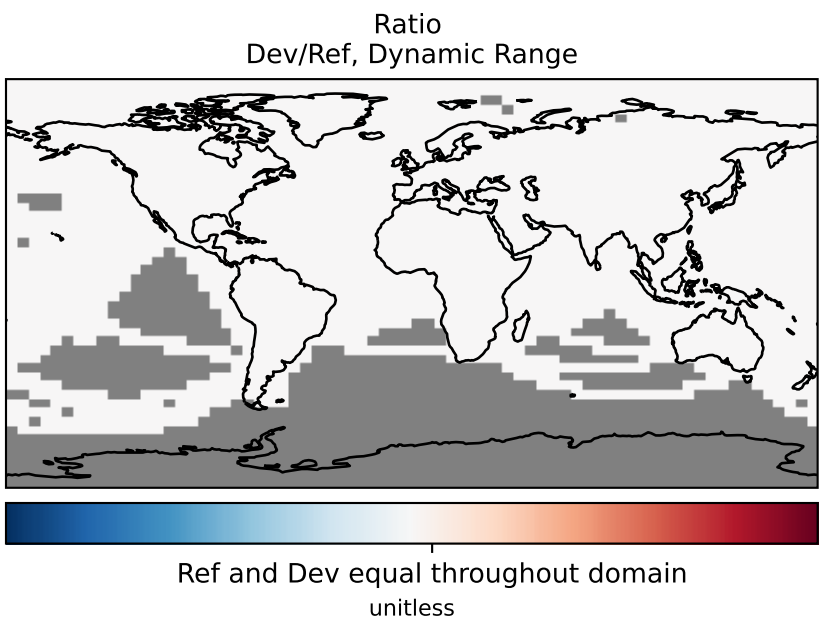
Difference
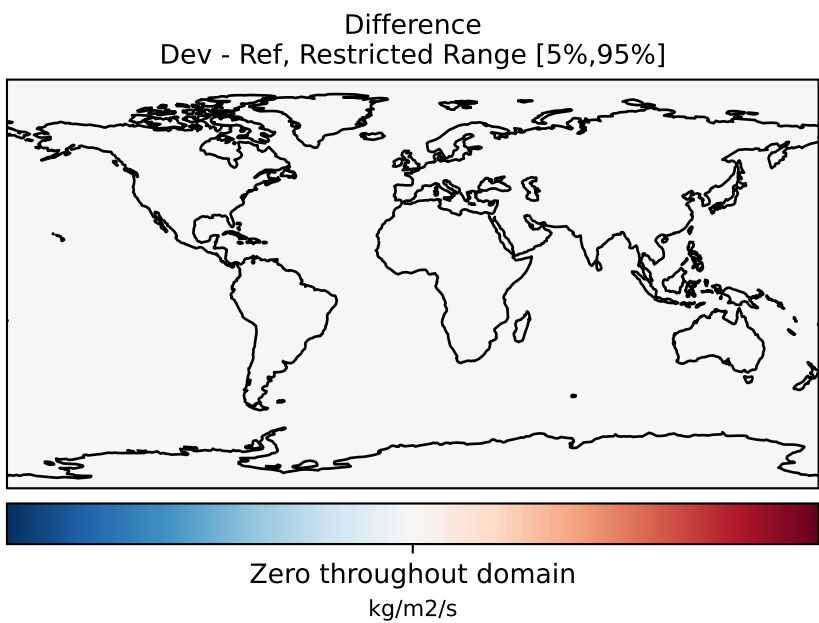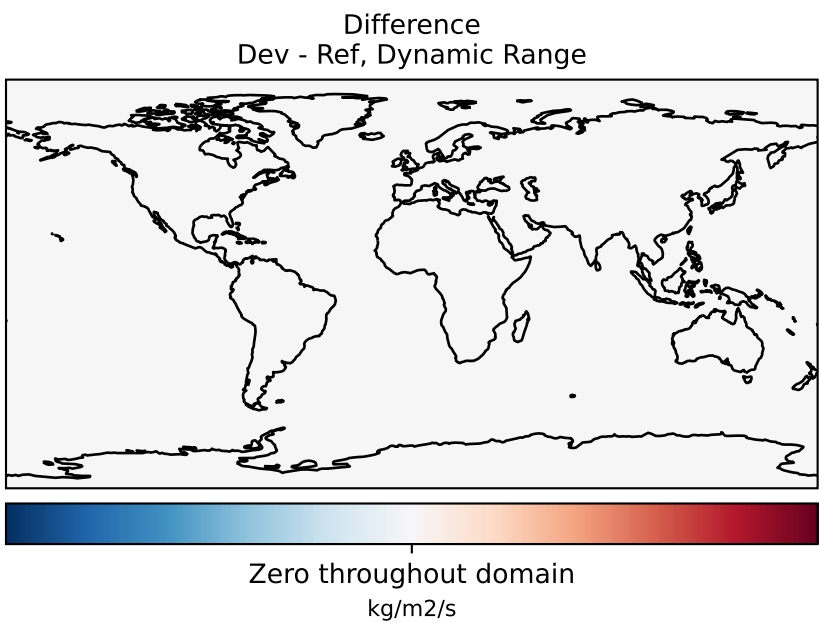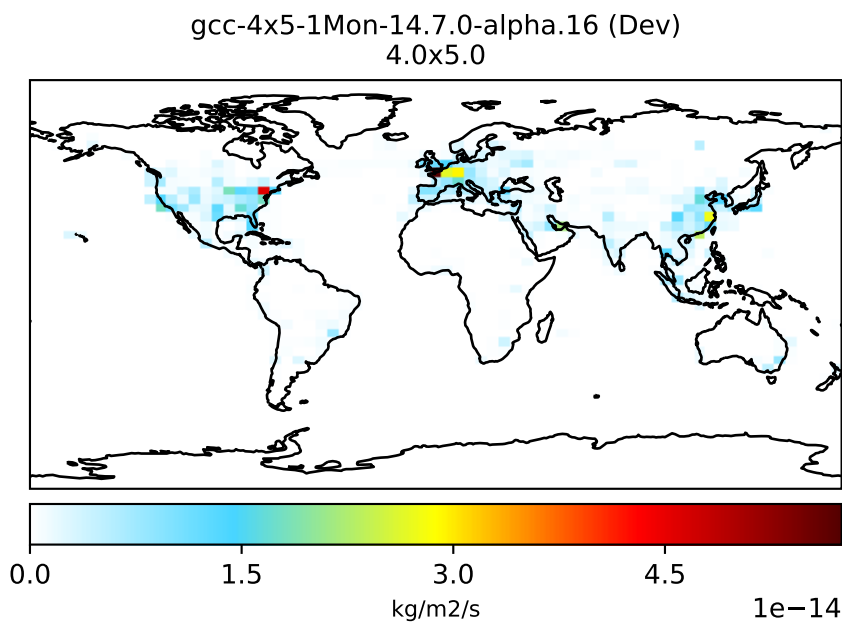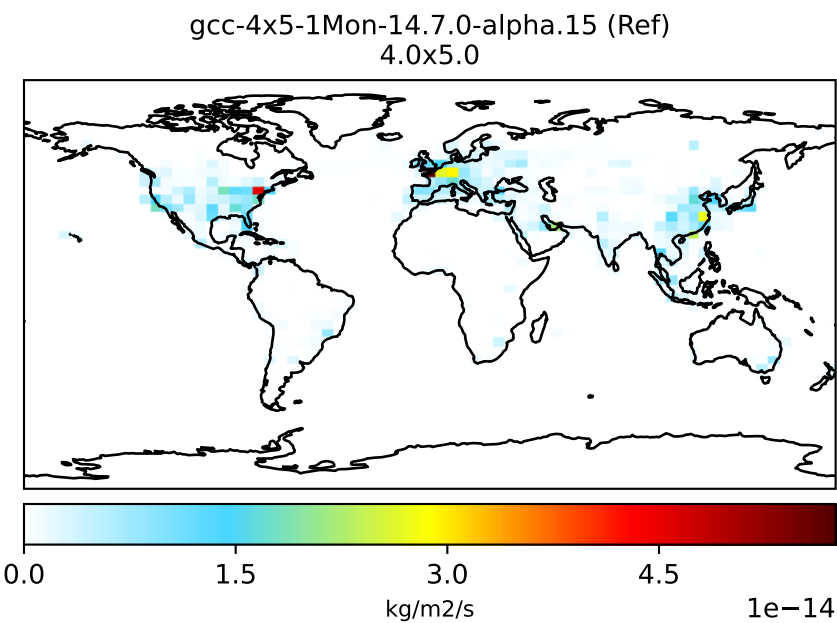Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

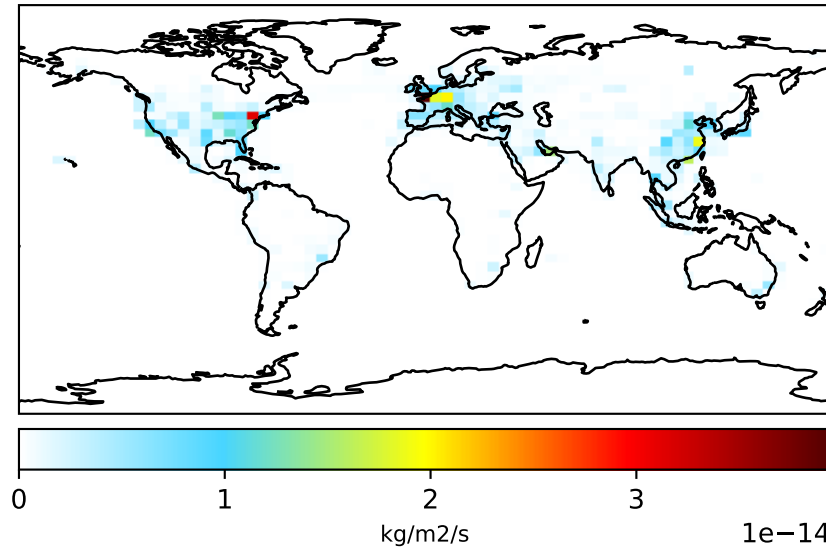Ref and Dev equal throughout domain
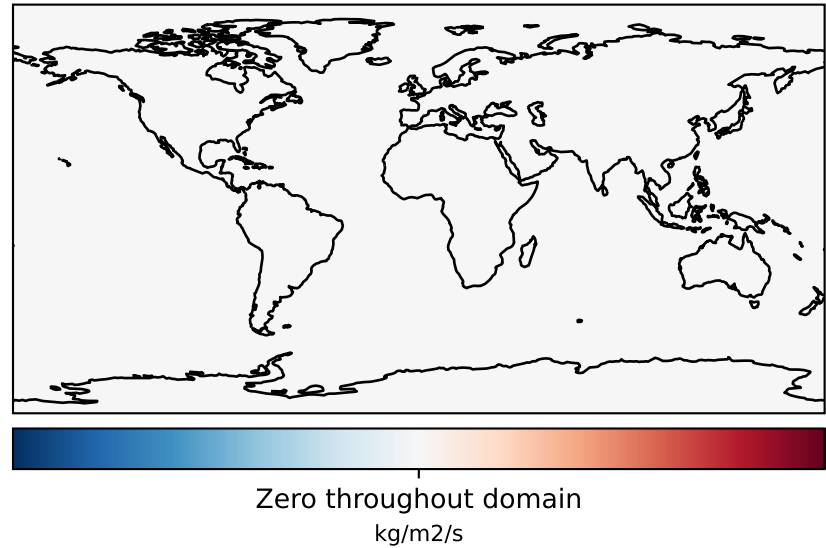unitless

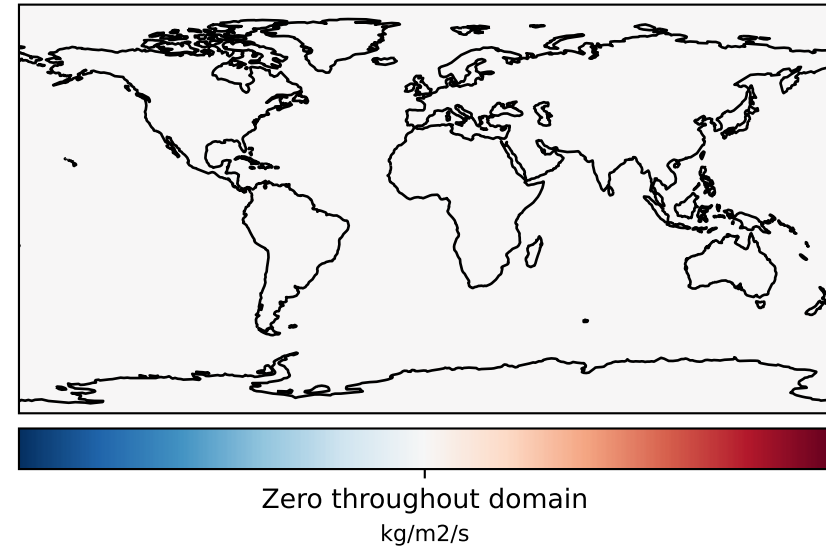# EmisACET_Biogenic

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisACET_Ocean

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

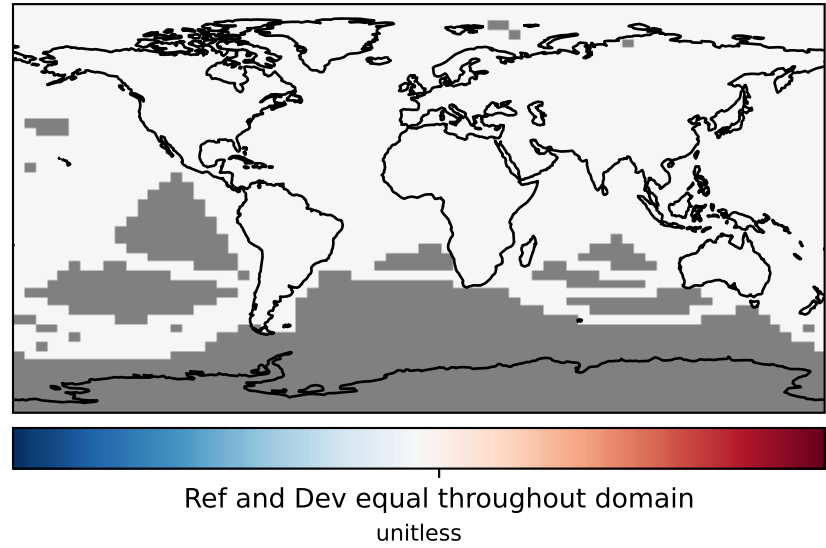kg/m2/s

1e−11

kg/m2/s
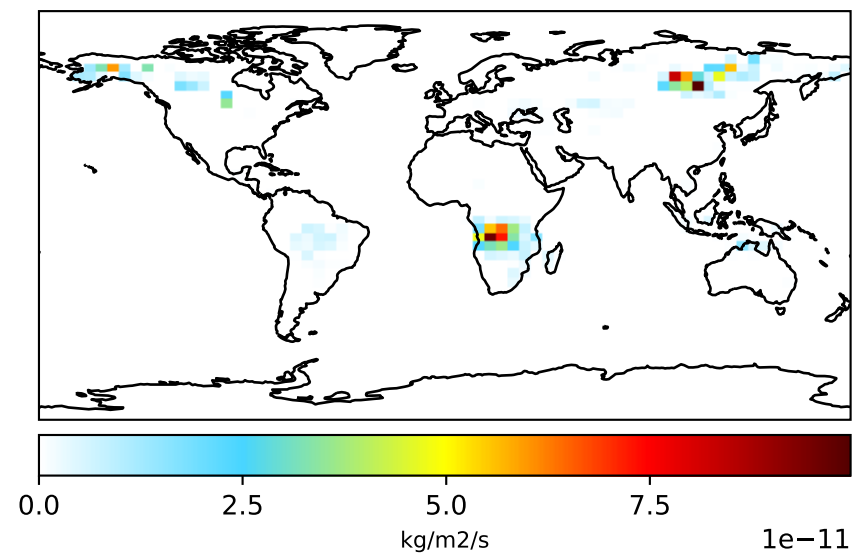
1e−11

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisACET_Total

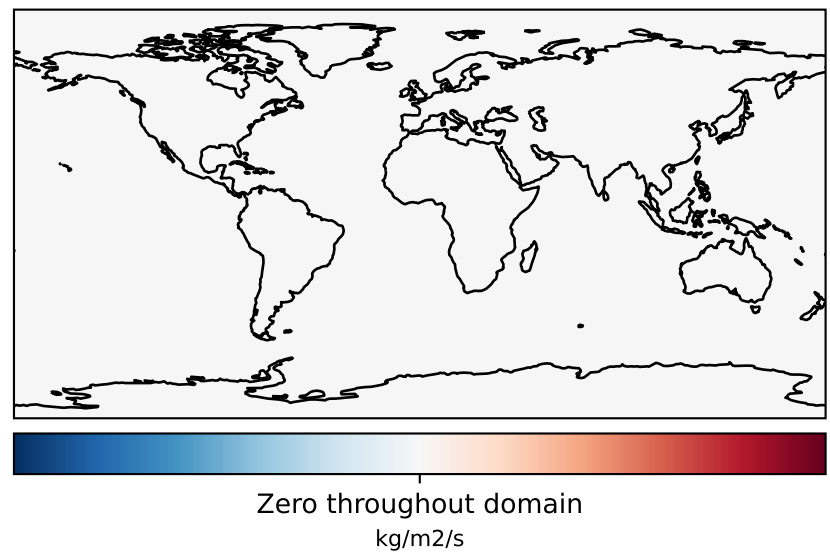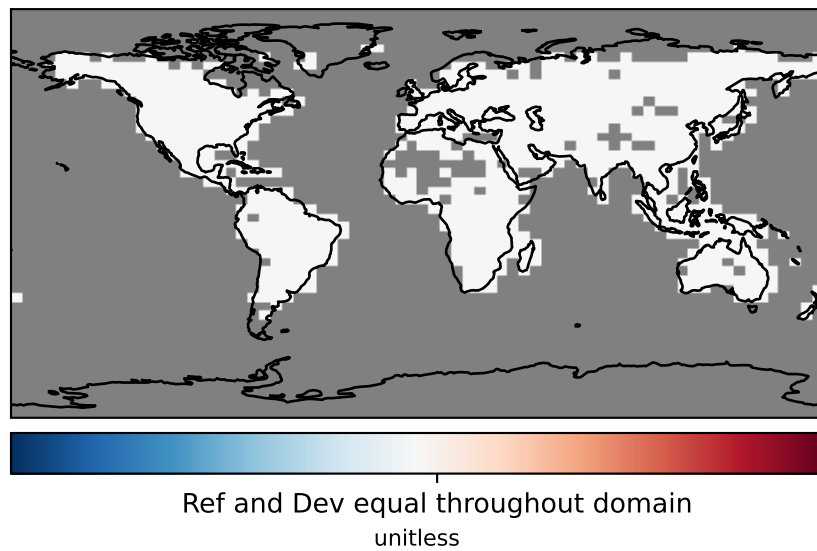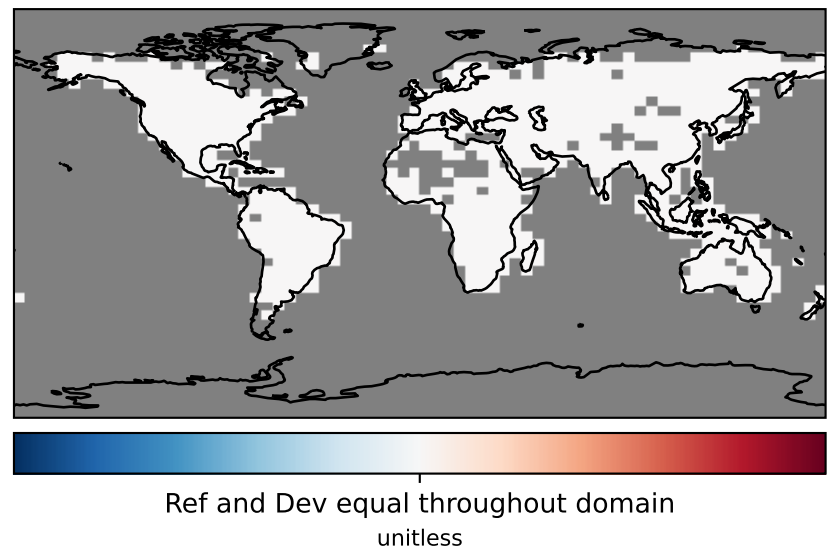gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

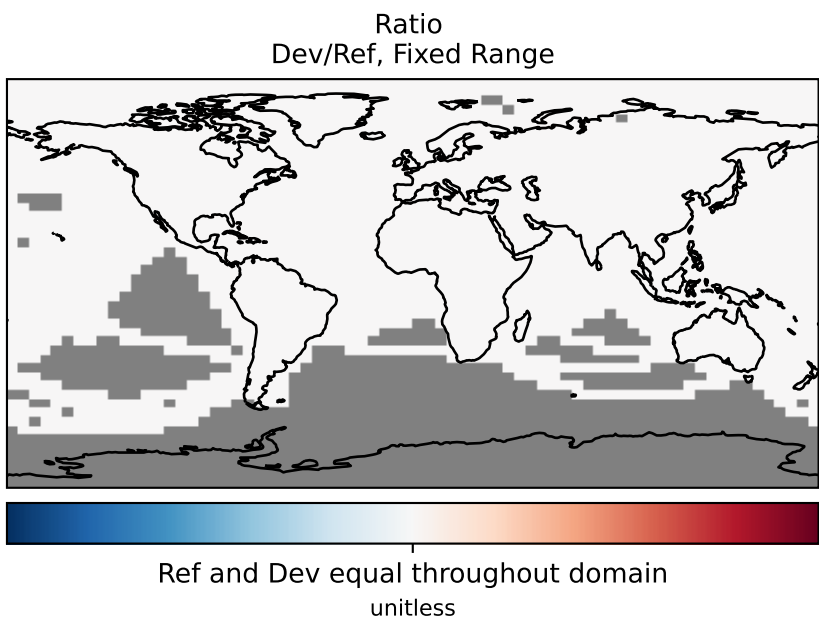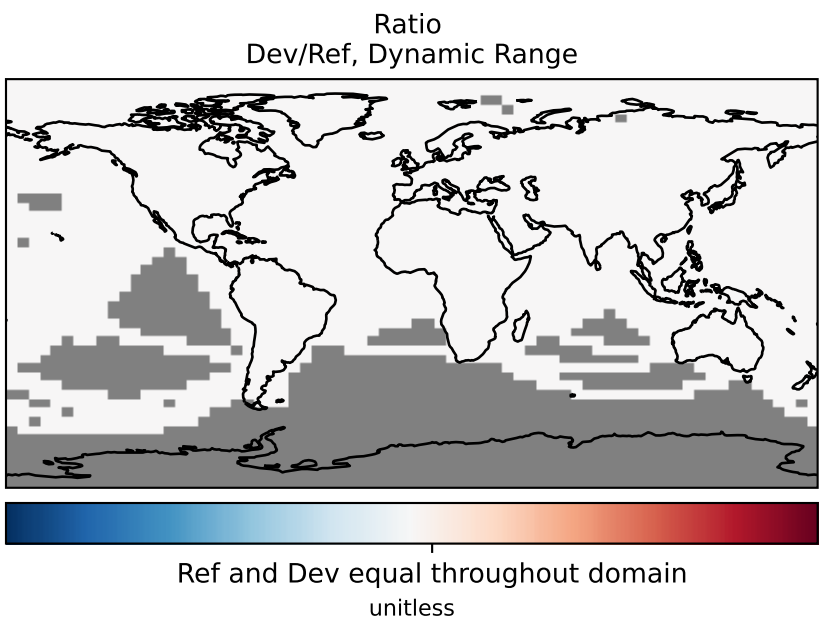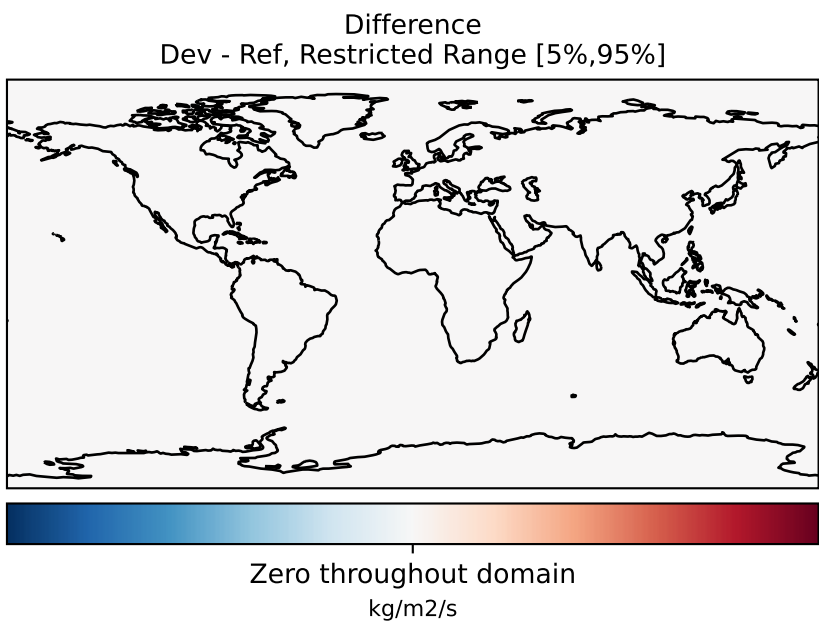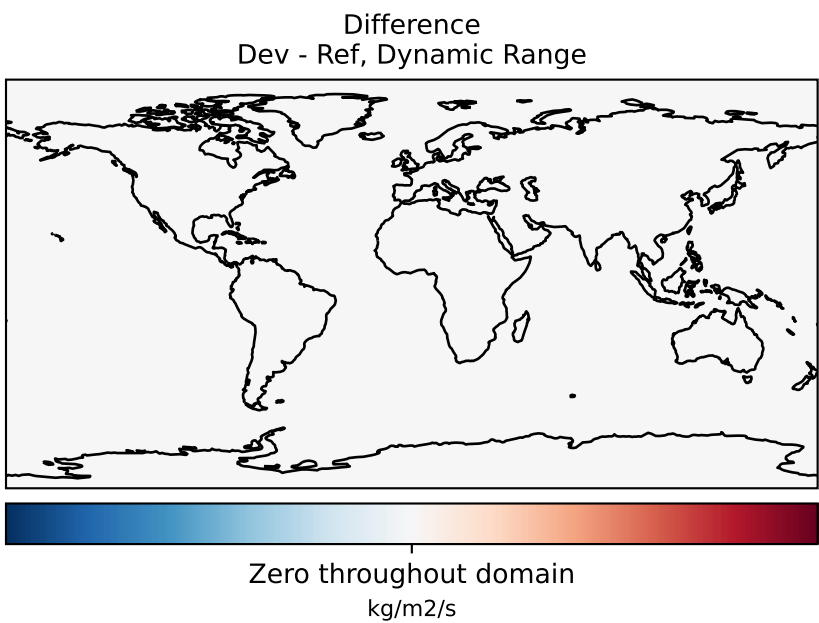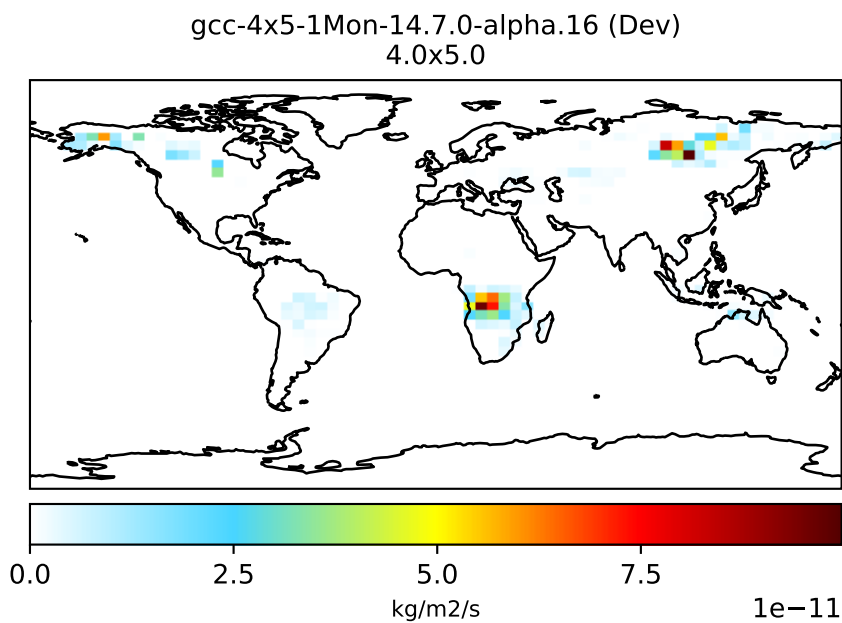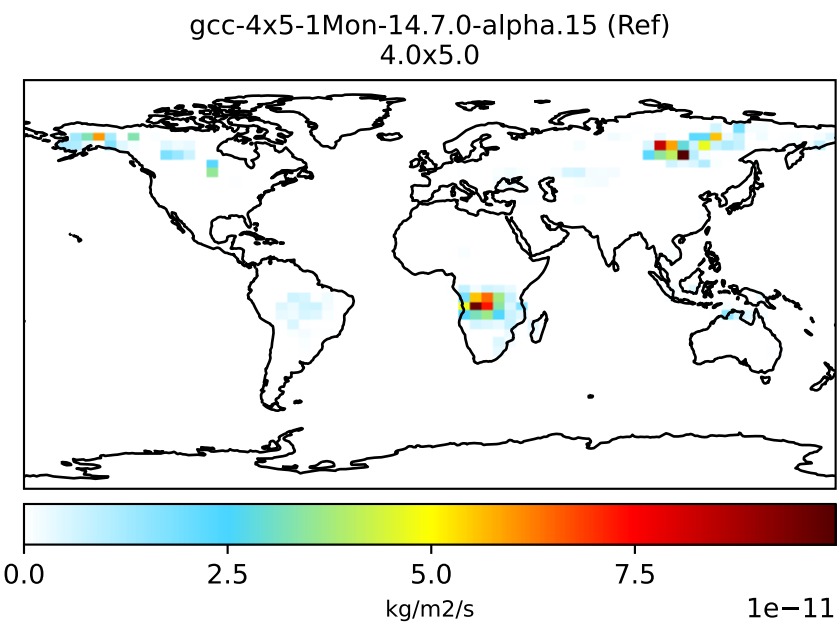Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

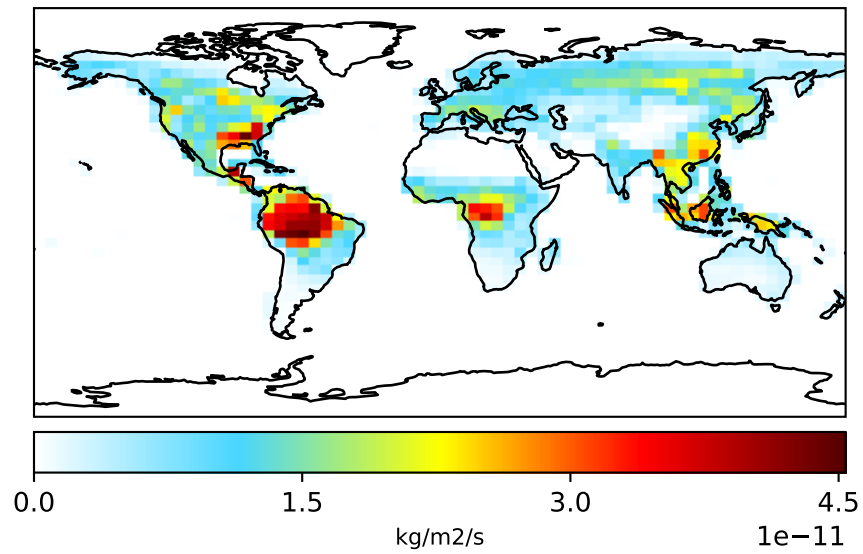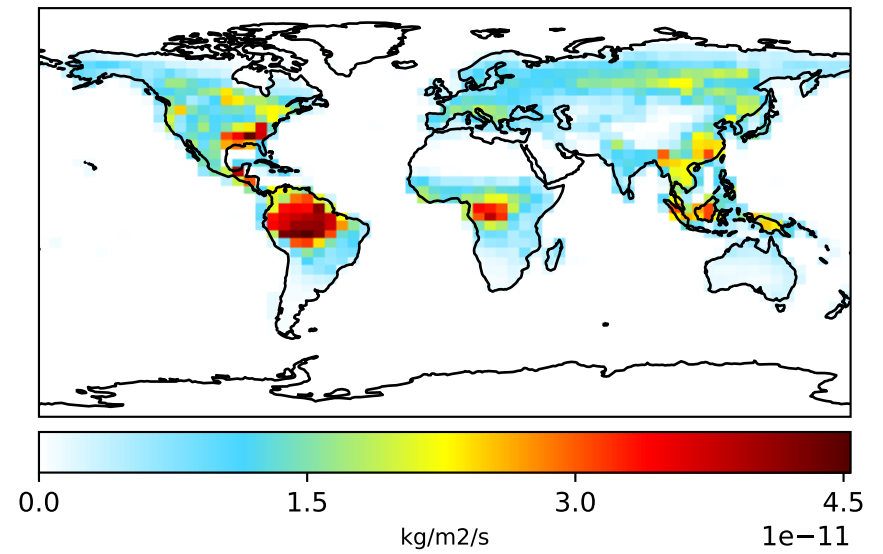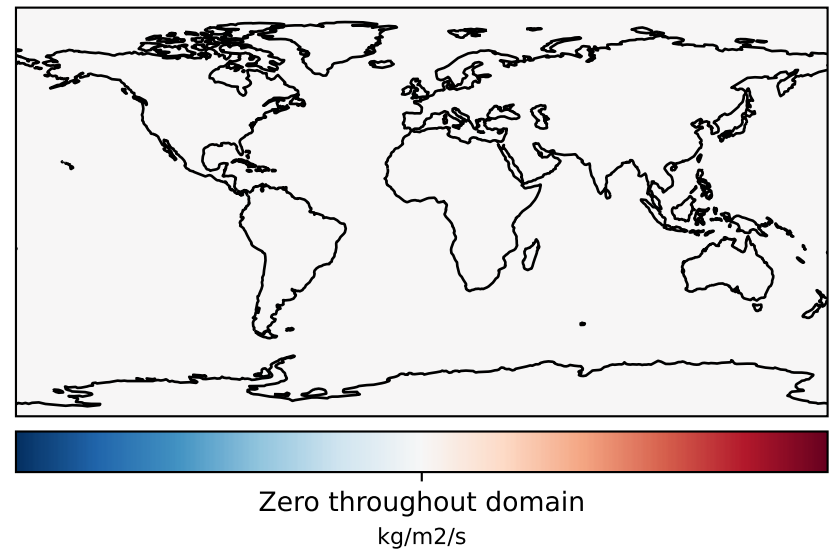# EmisMEK_Anthro

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

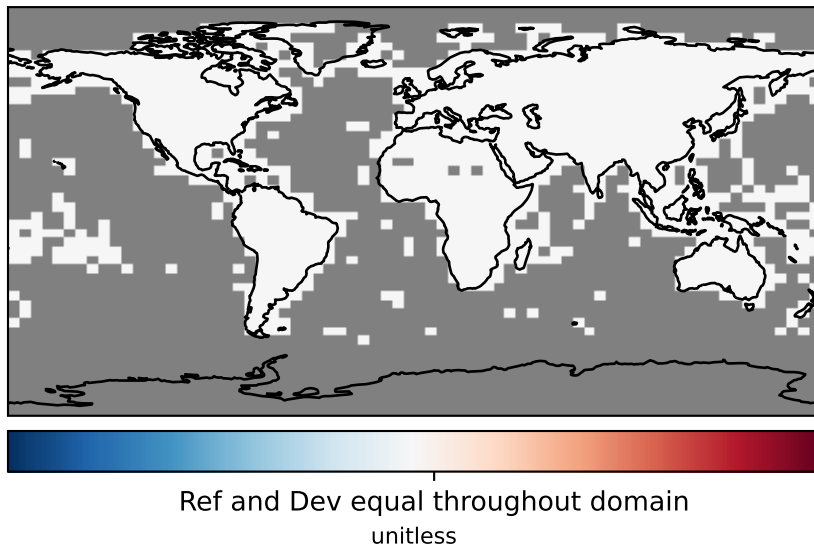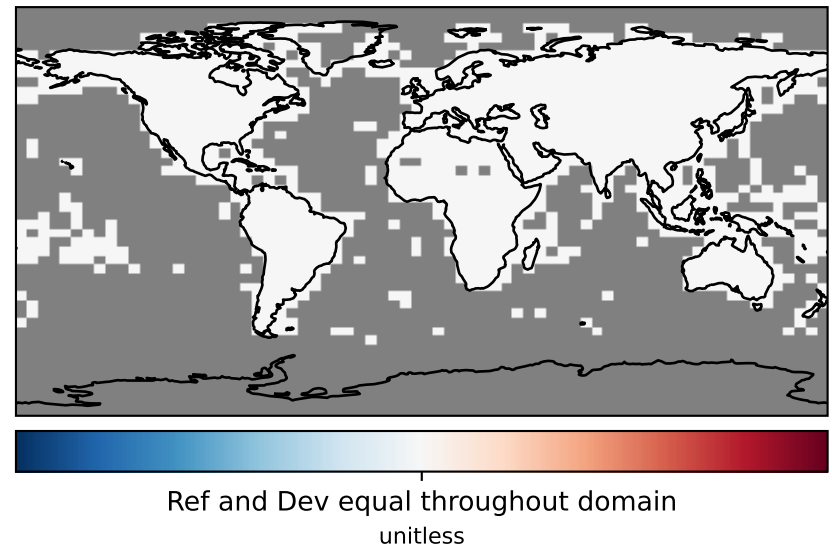gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisMEK_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

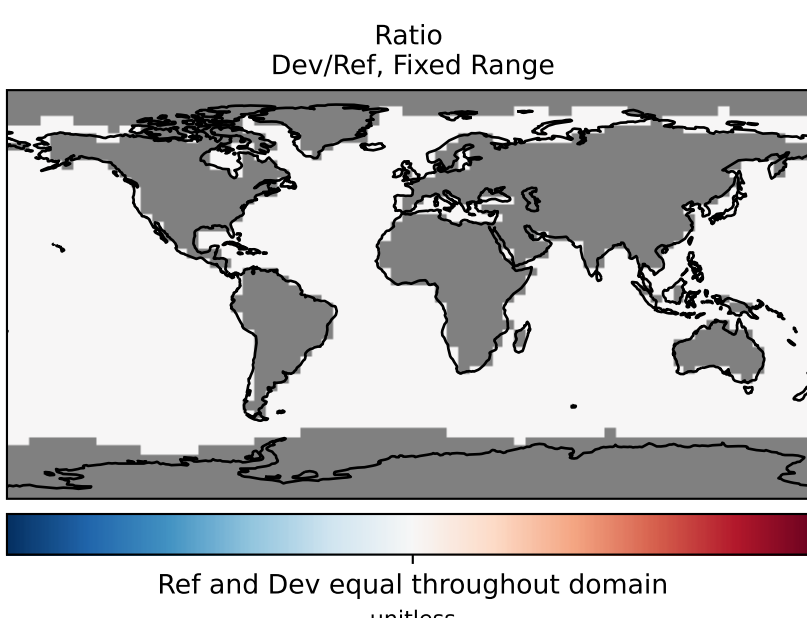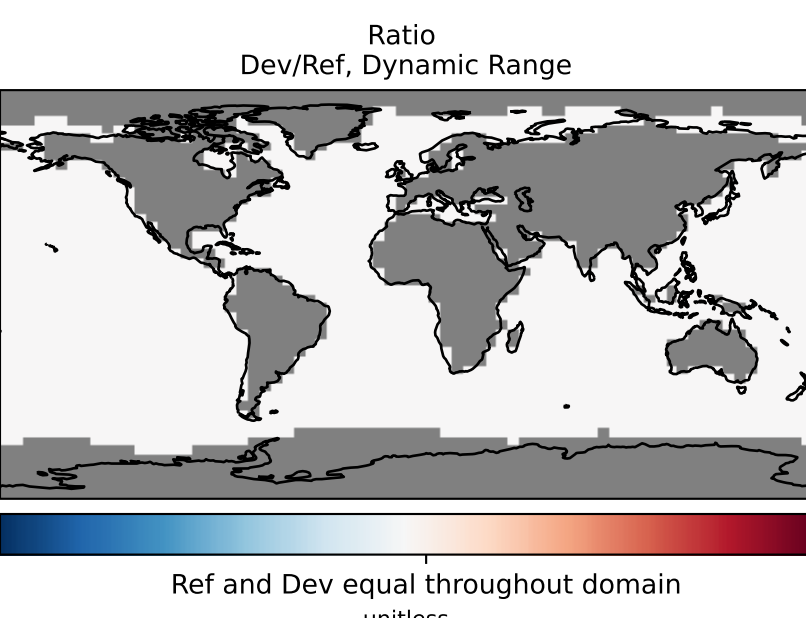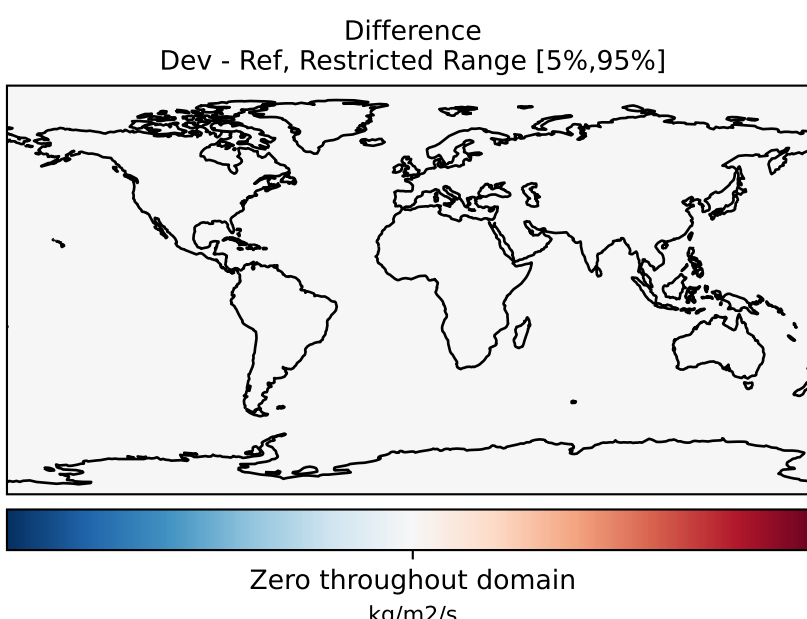Difference
Dev - Ref, Restricted Range [5%,95%]
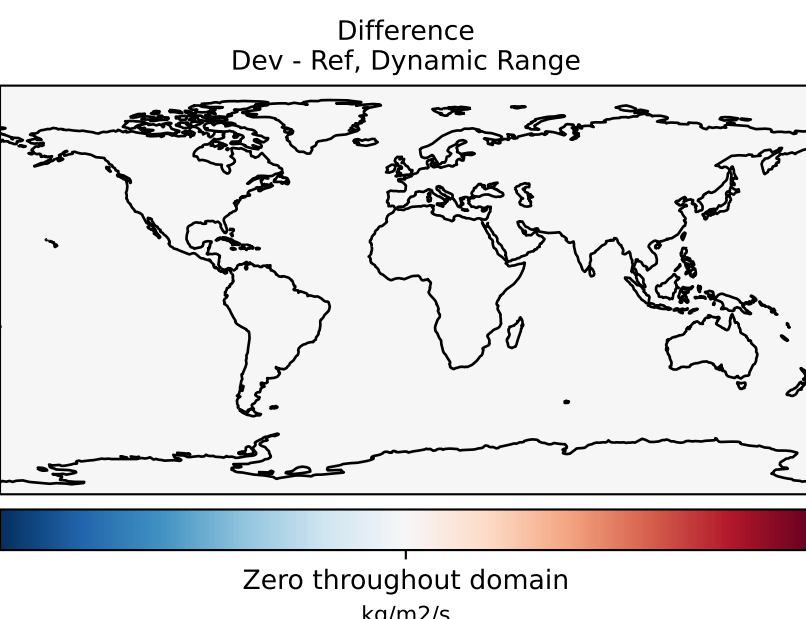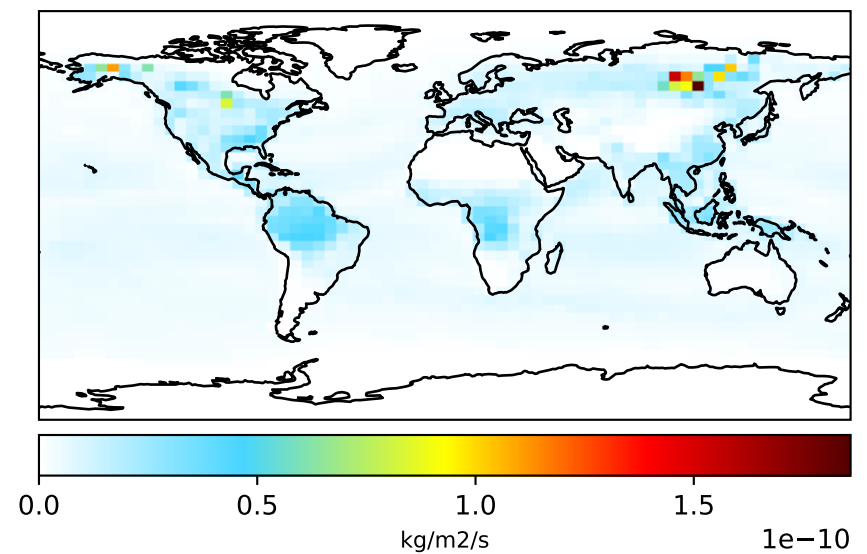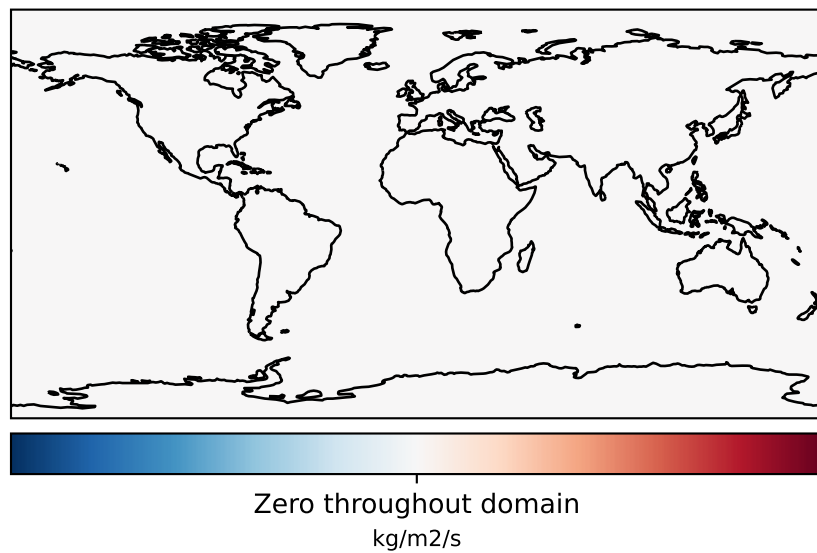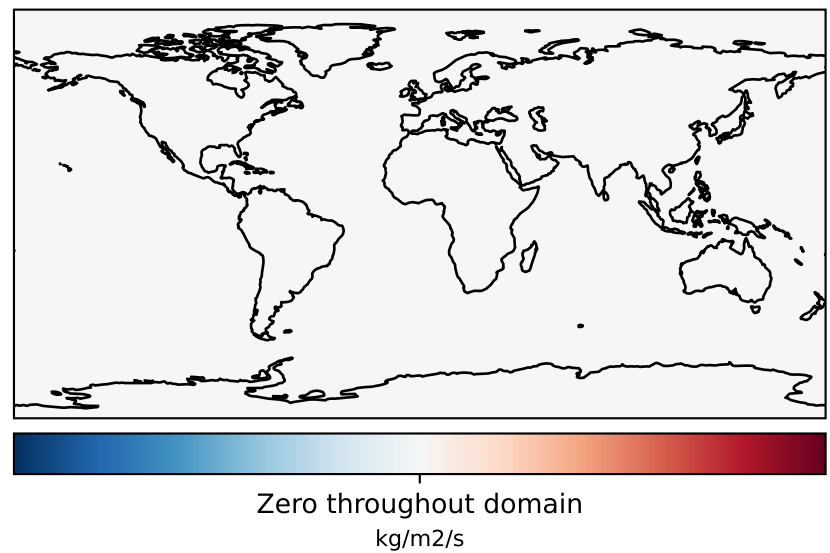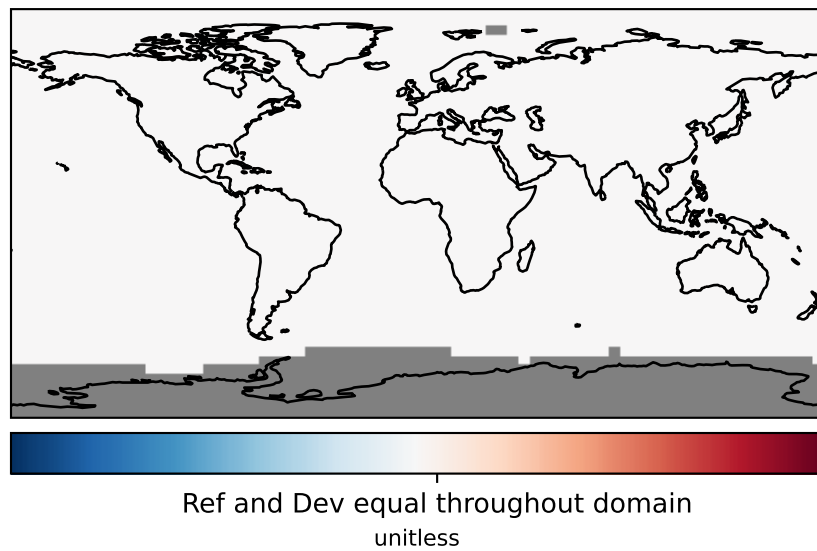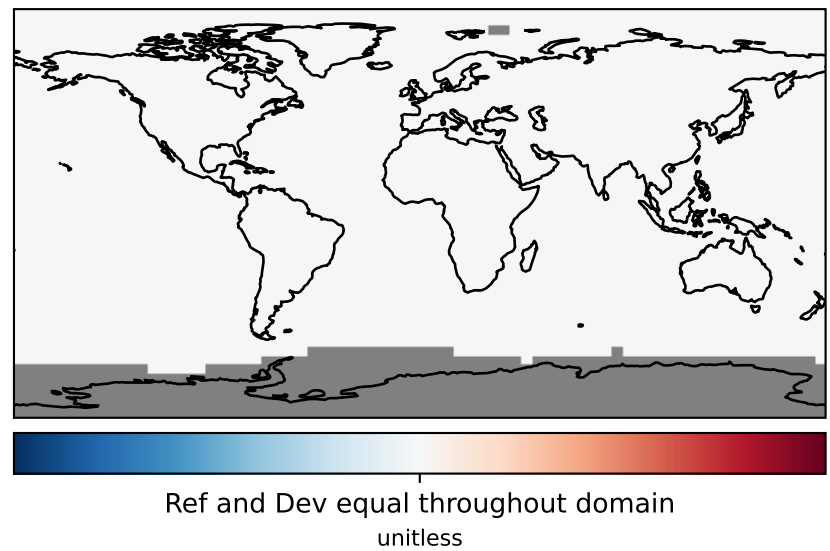
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisMEK_Ship

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

Zero throughout domain
kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (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
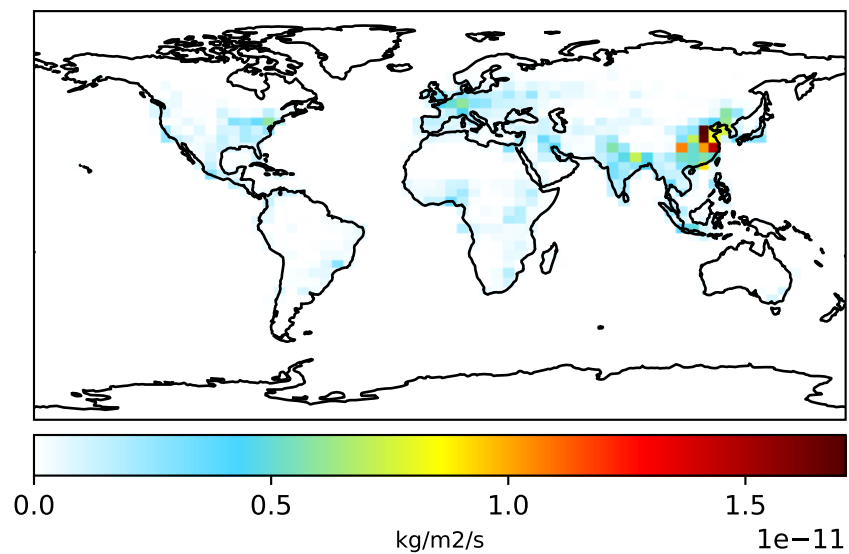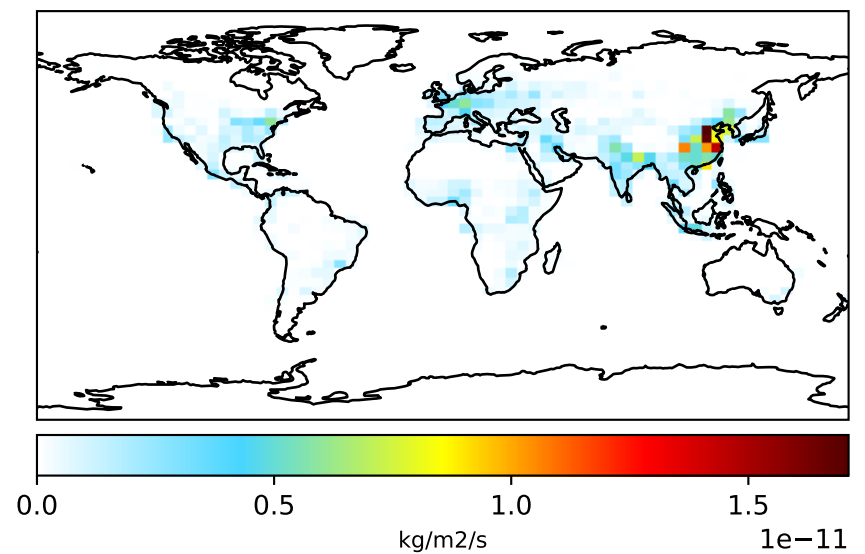unitless

EmisMEK_Total

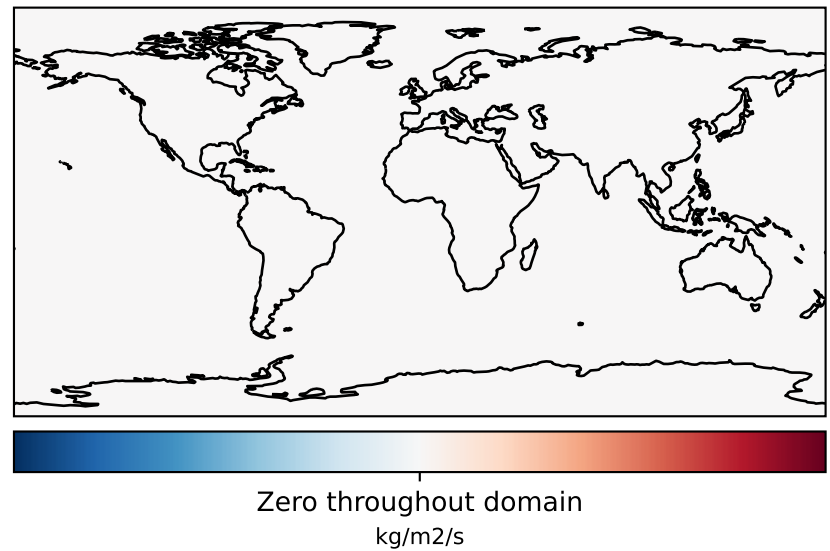

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

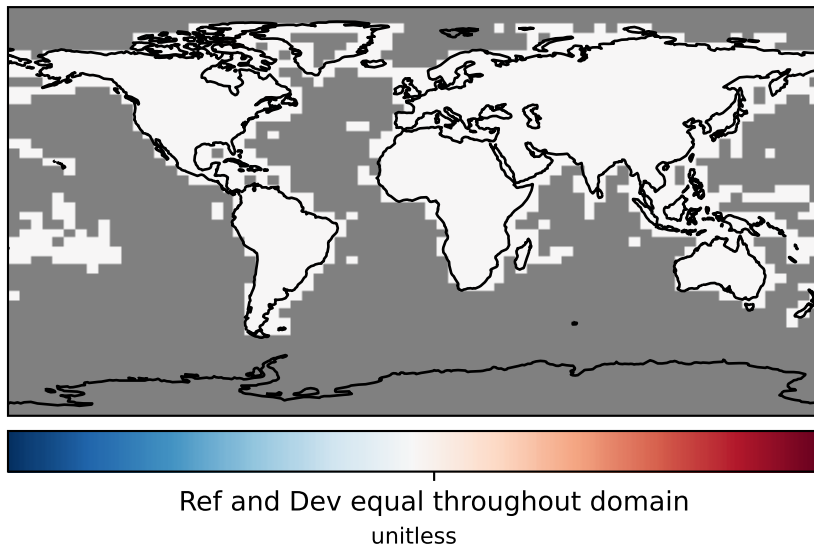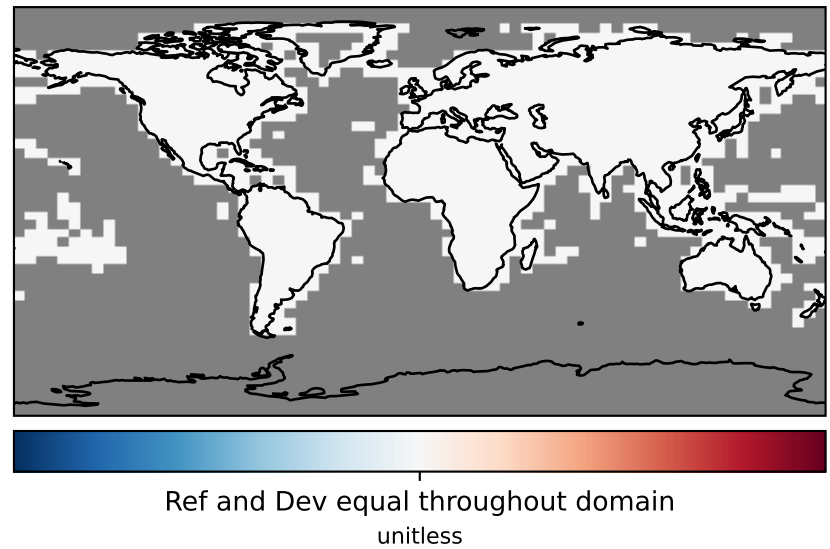gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range
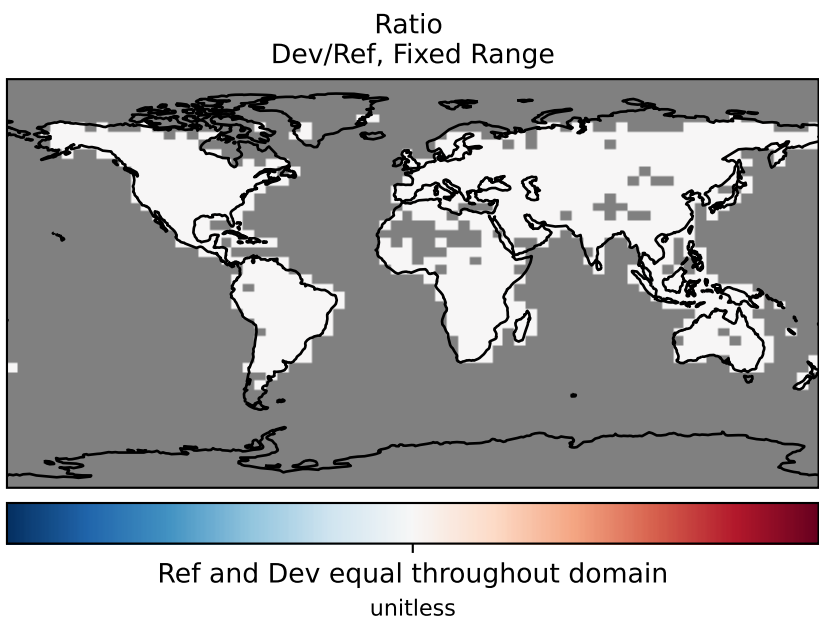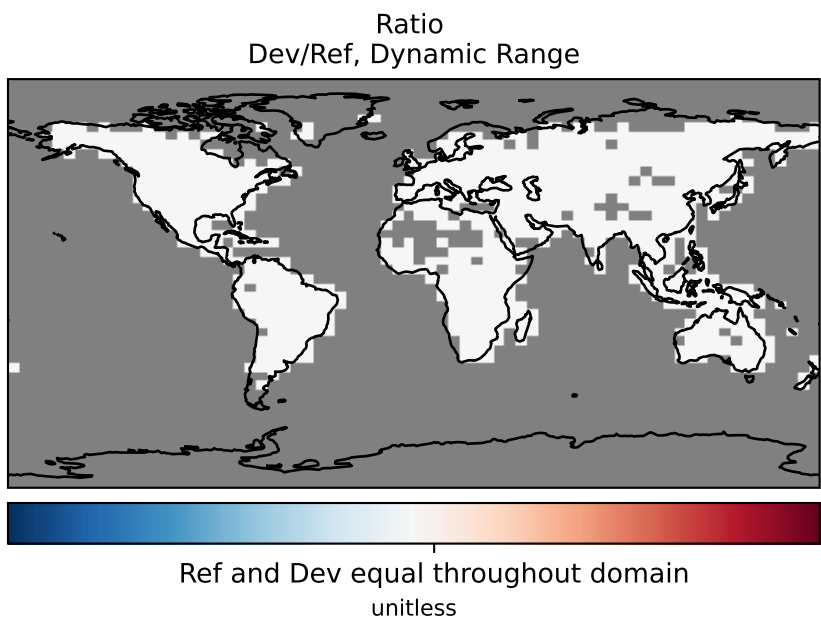
Difference
Dev - Ref, Restricted Range [5%,95%]
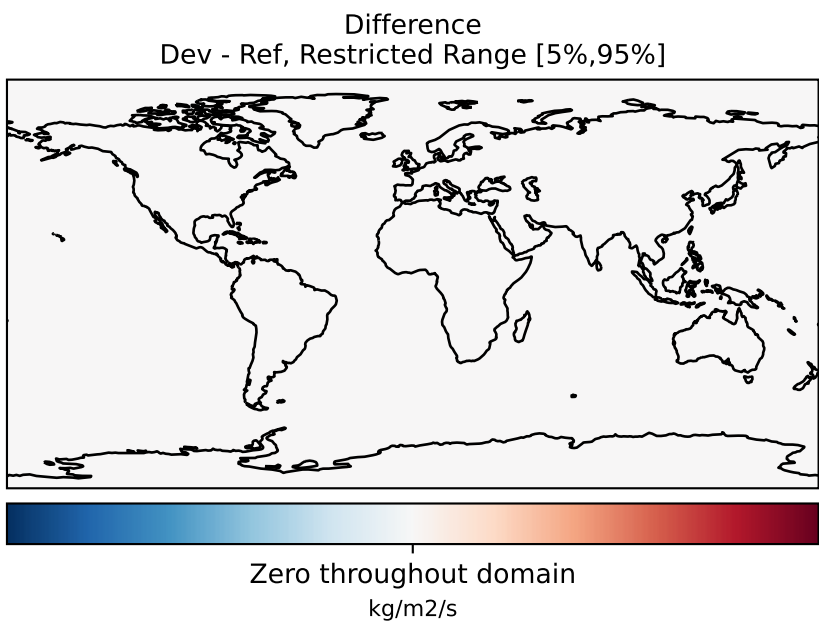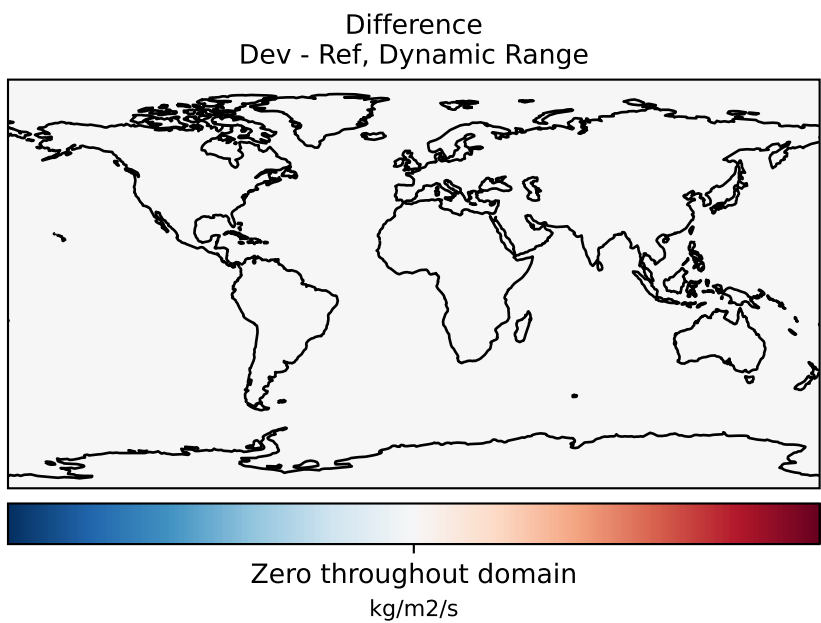
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range
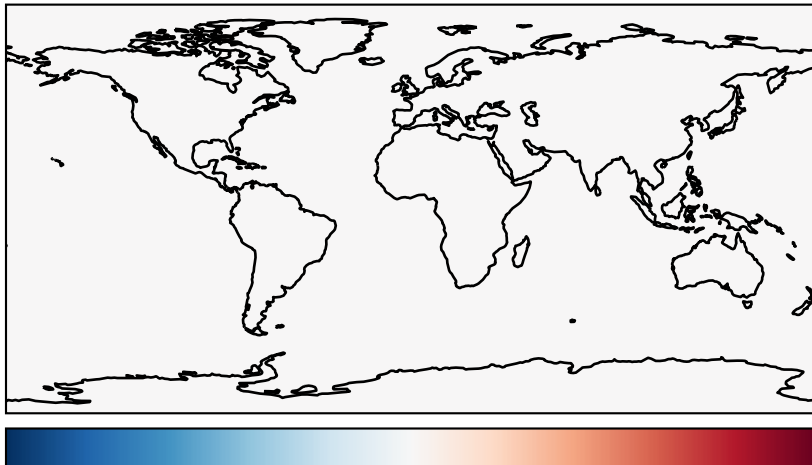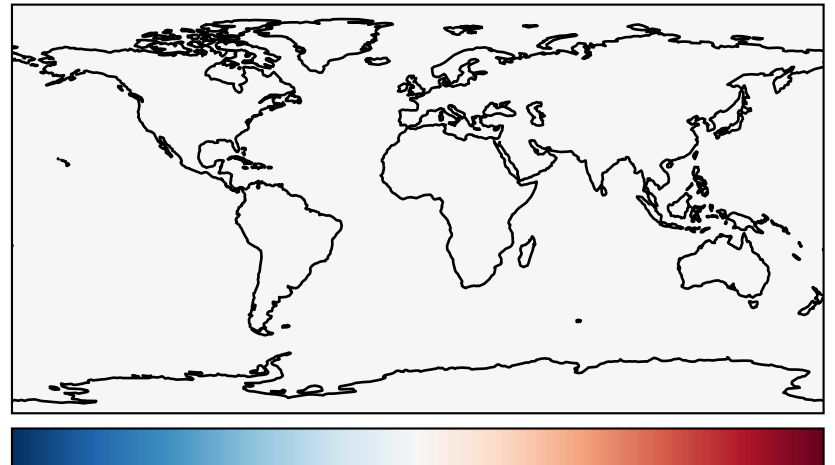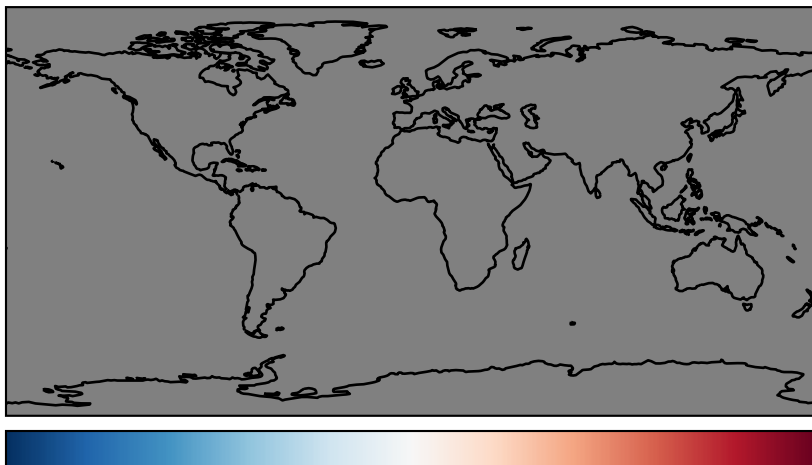
Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisMVK_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisMVK_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

kg/m2/s

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
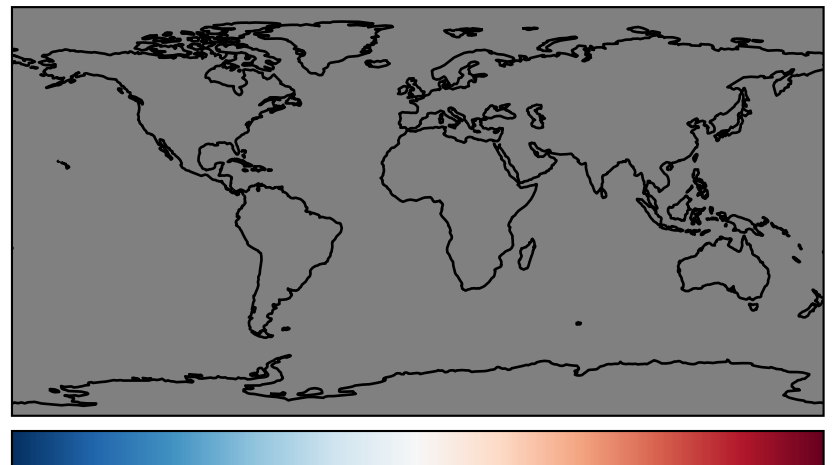kg/m2/s

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

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

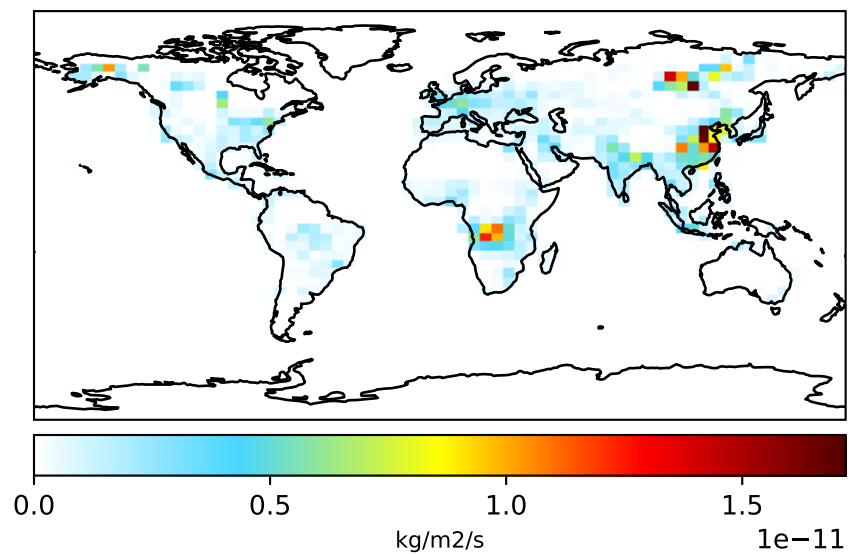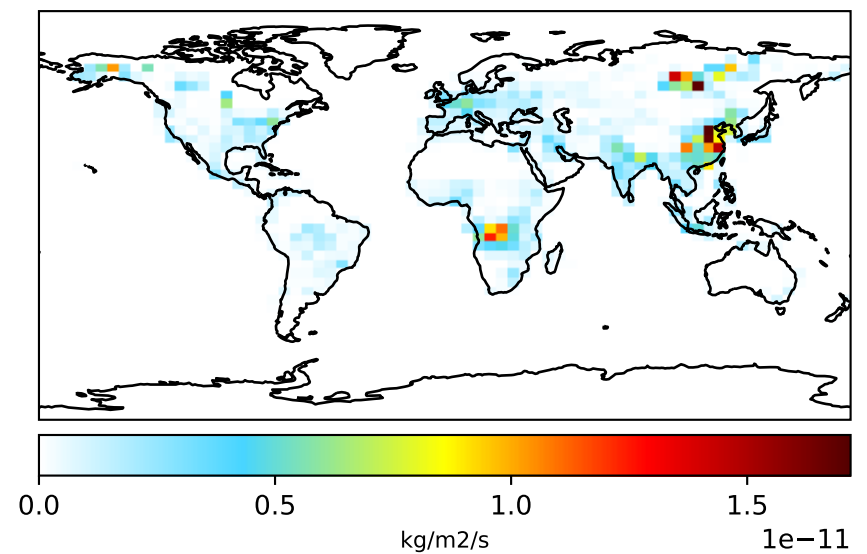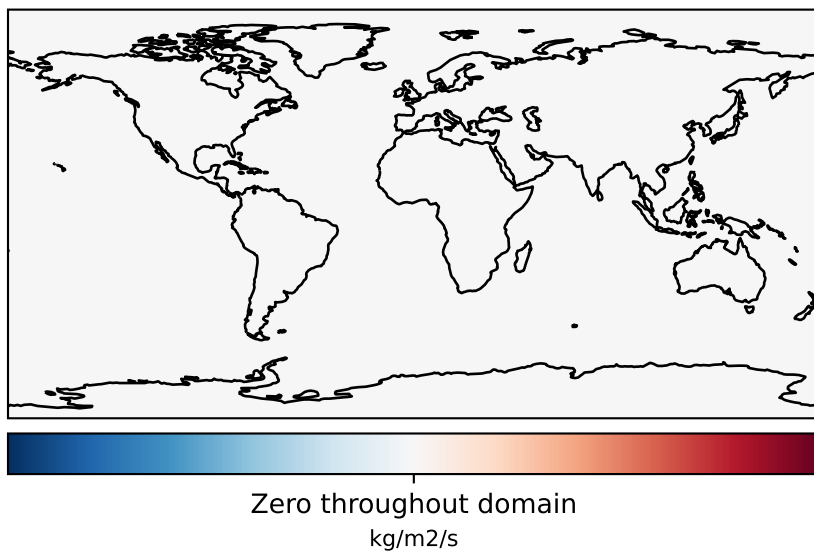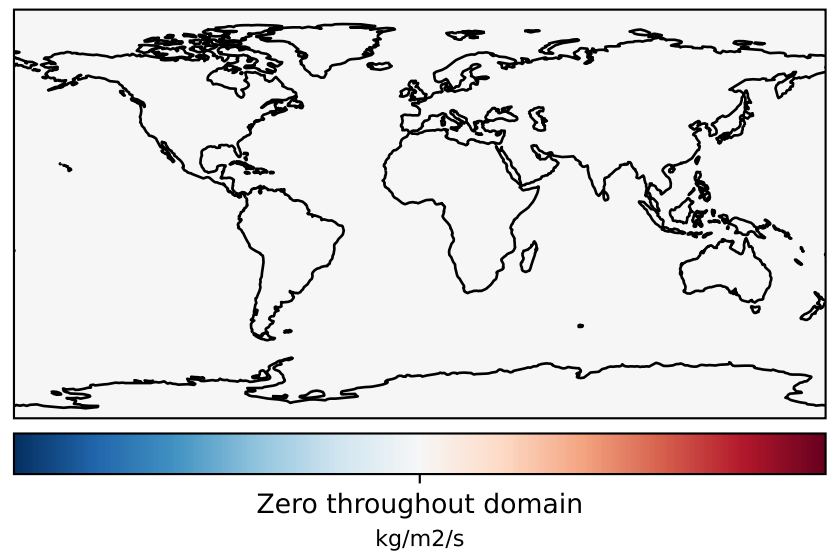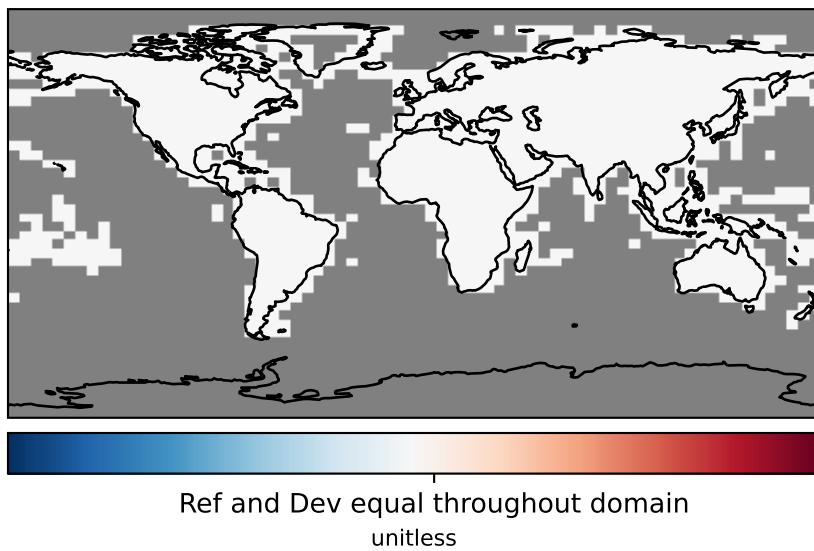Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisFURA_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

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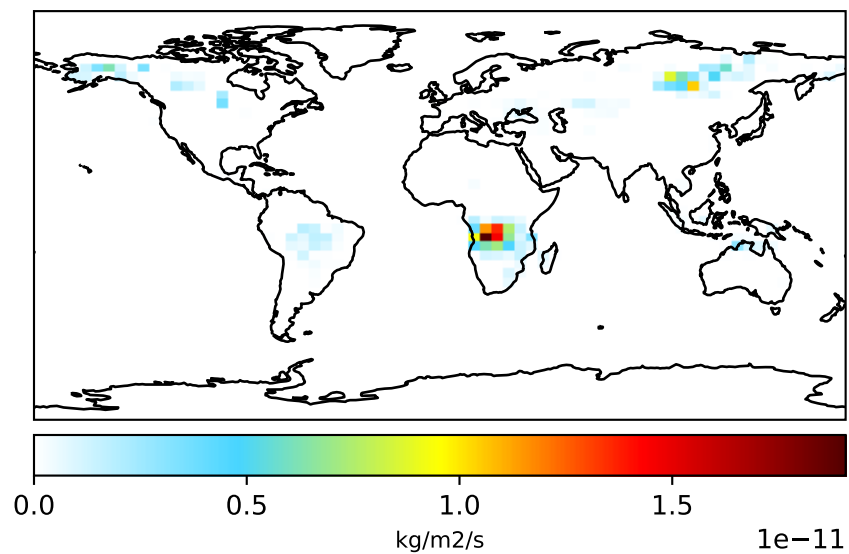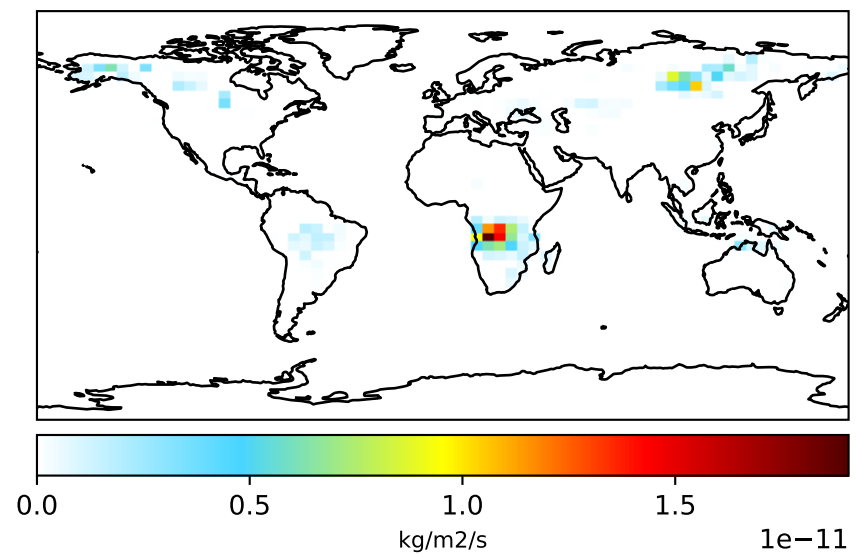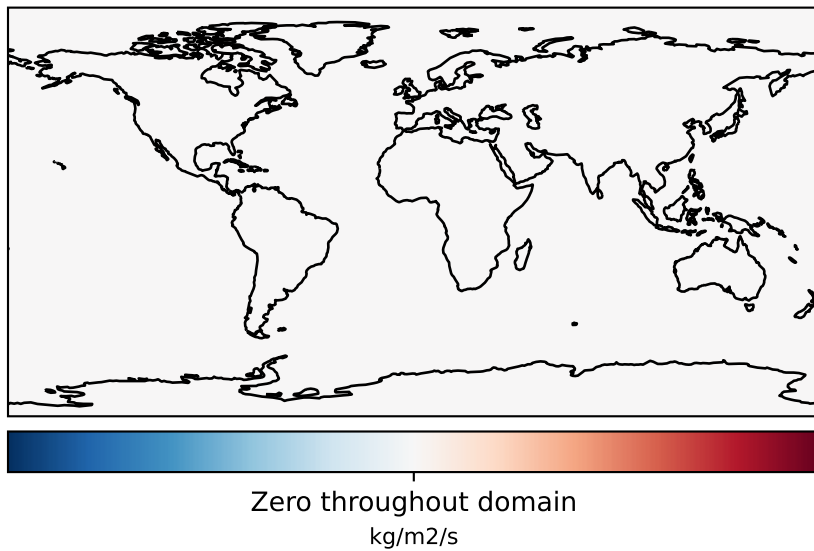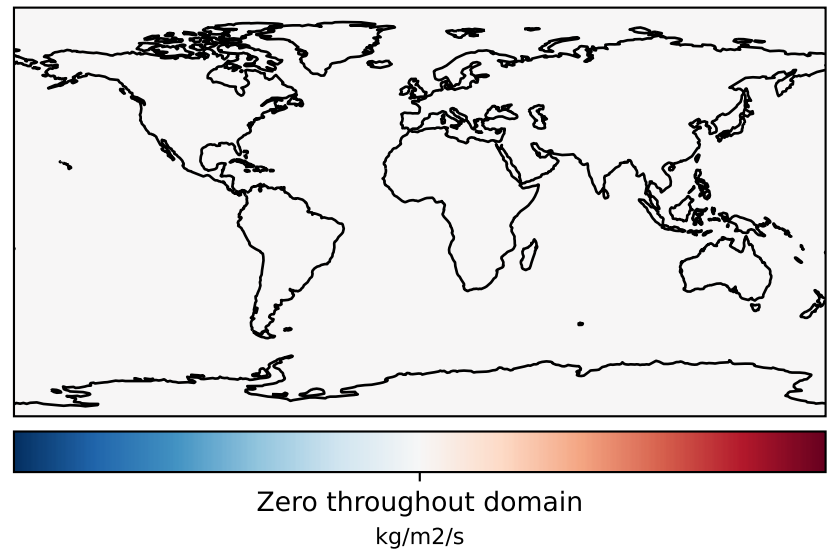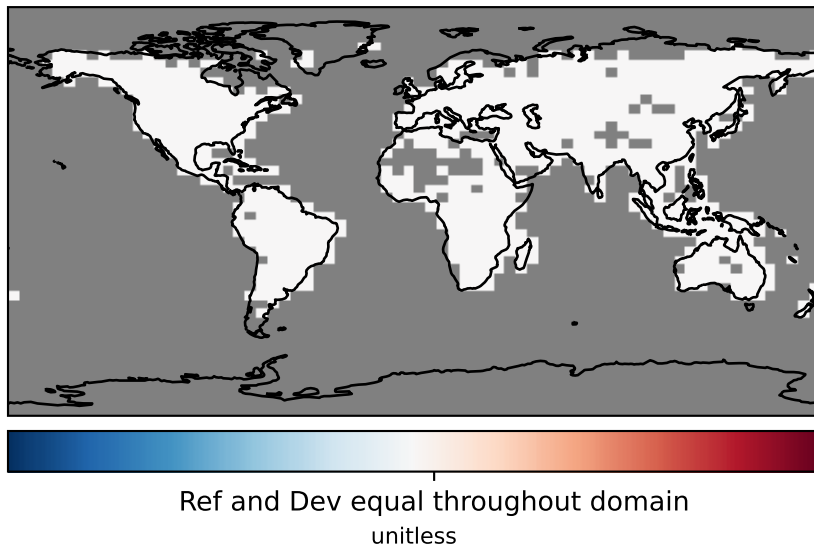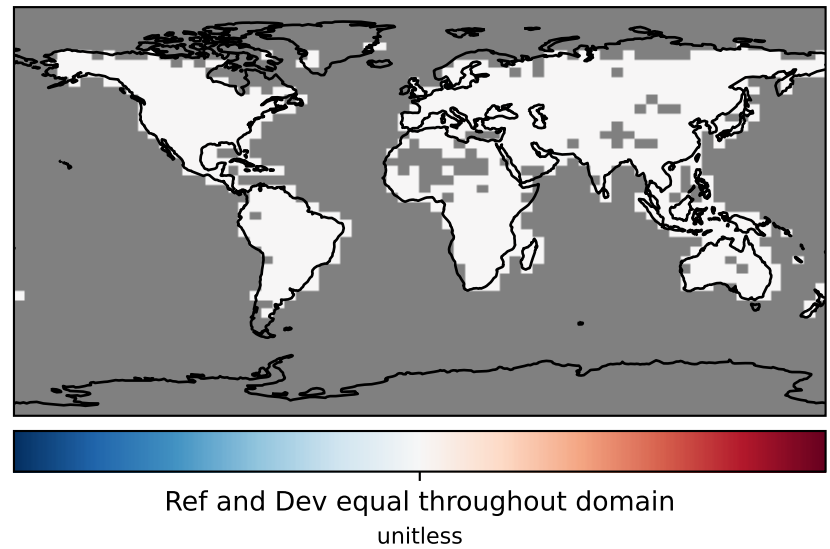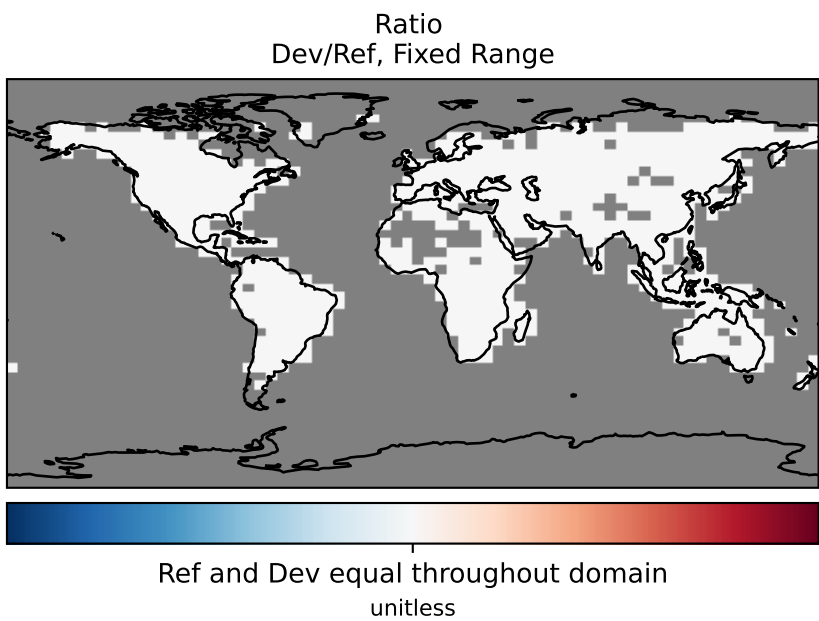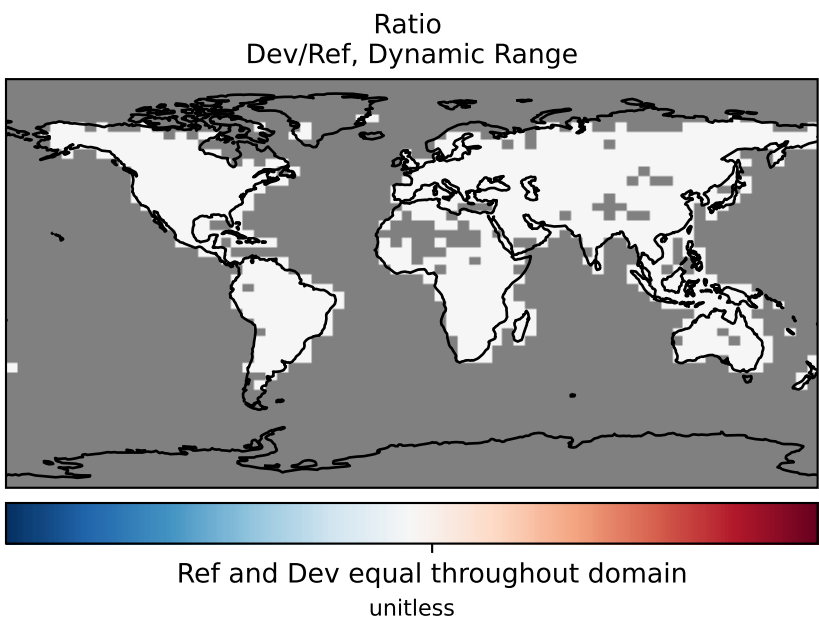
Difference
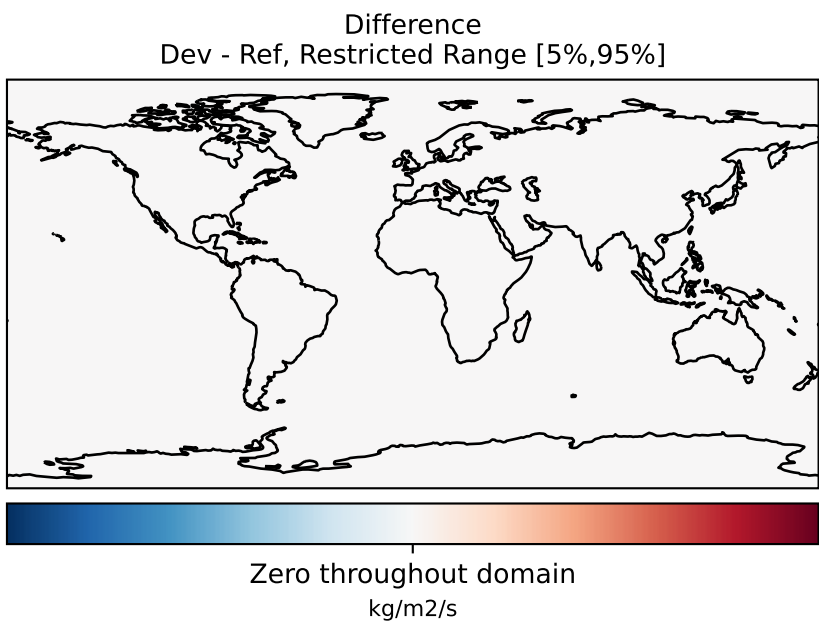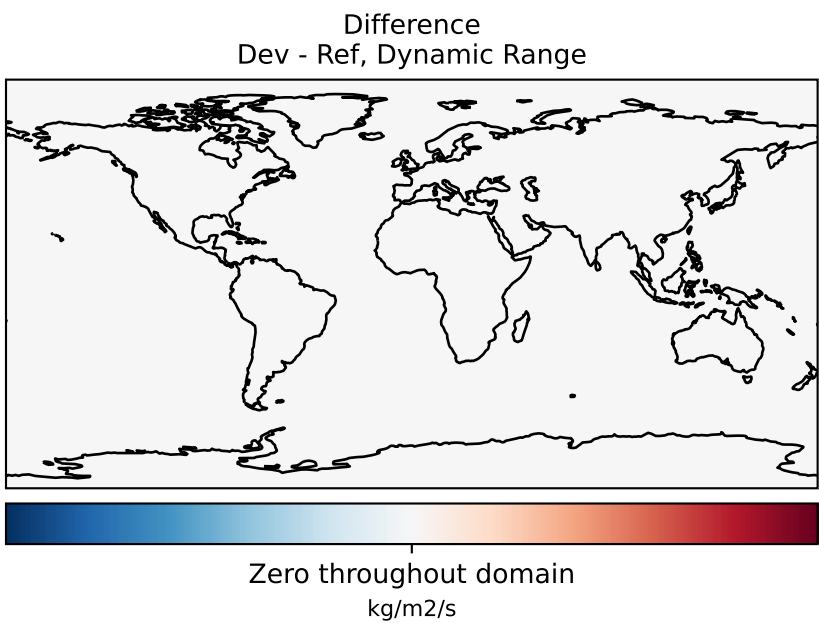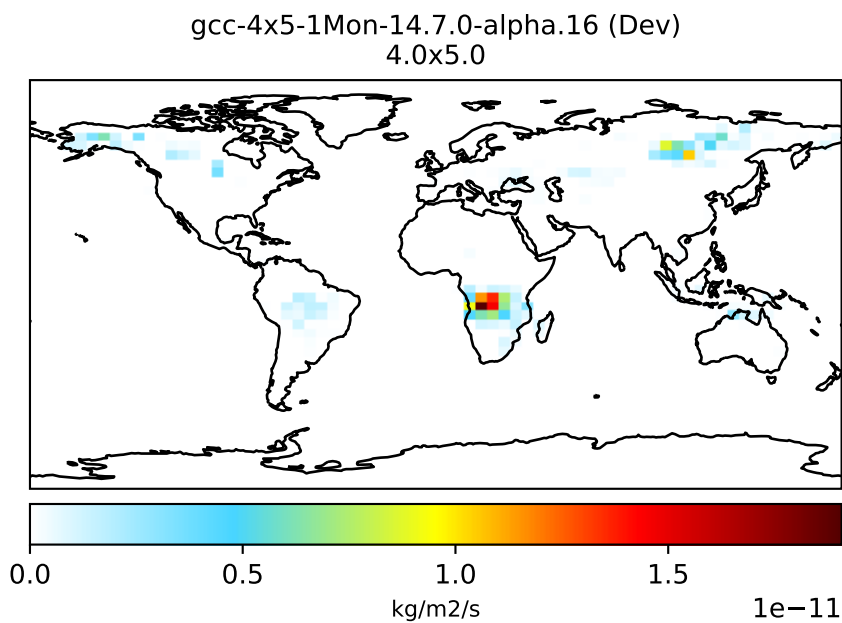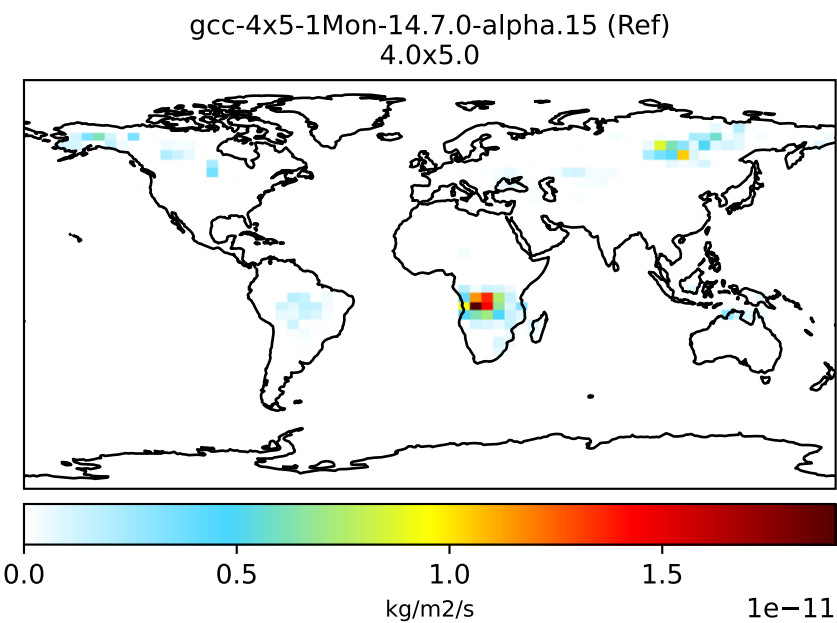Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisFURA_Total

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

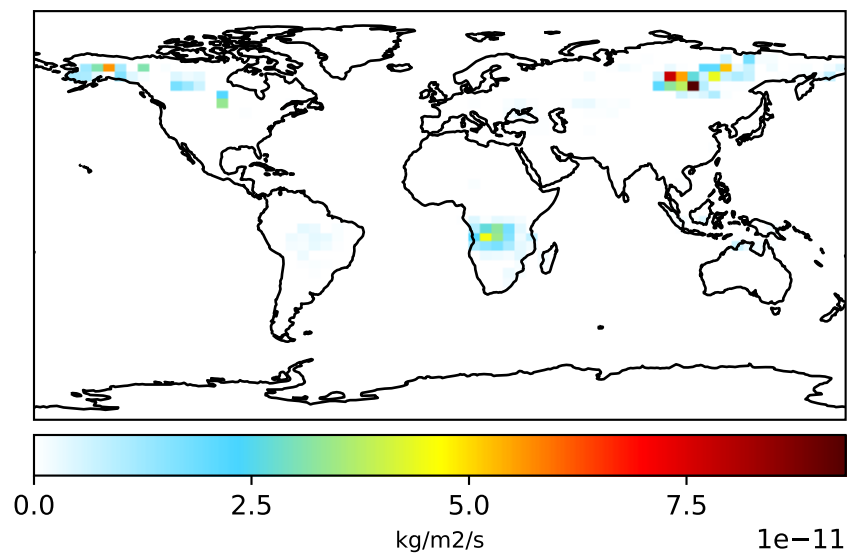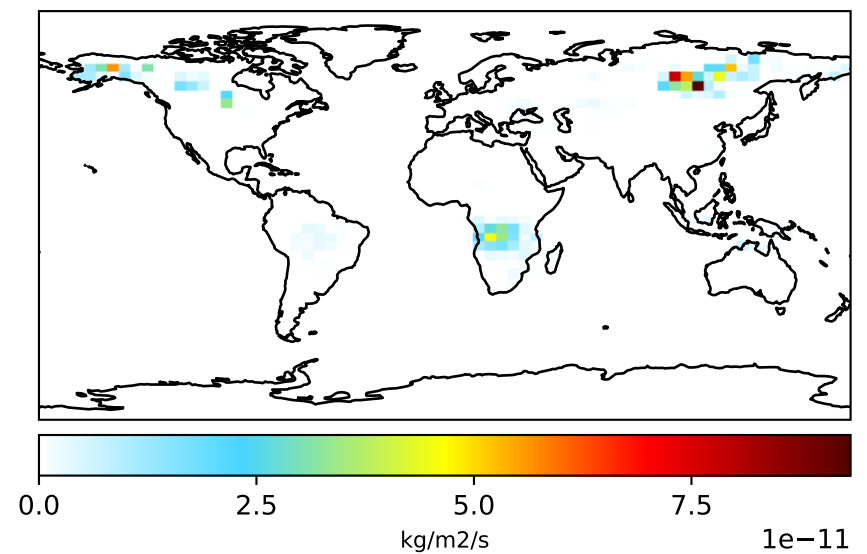kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
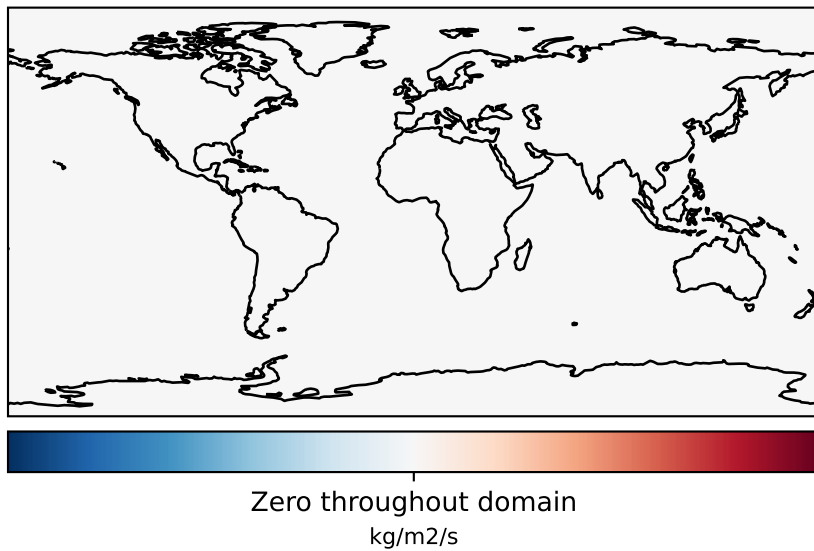unitless

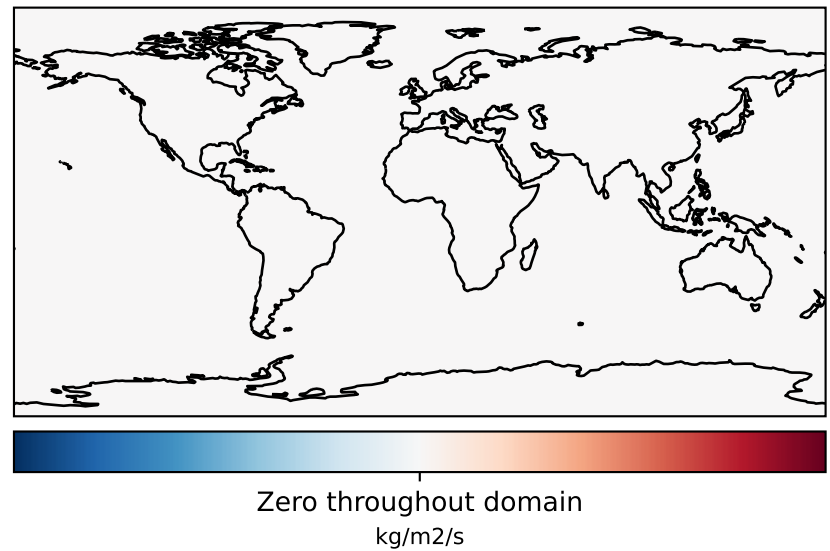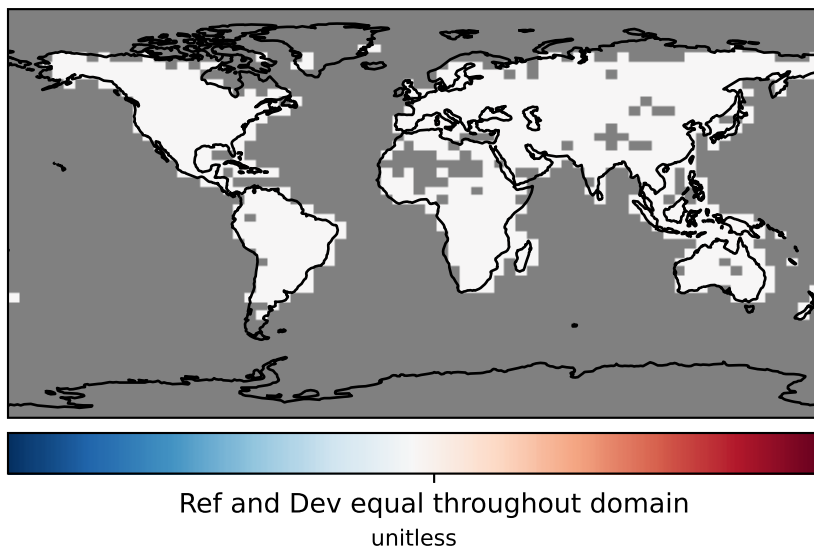EmisPHEN_BioBurn

gcc-4x5-1Mon-14.7.0-alpha.15 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.7.0-alpha.16 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

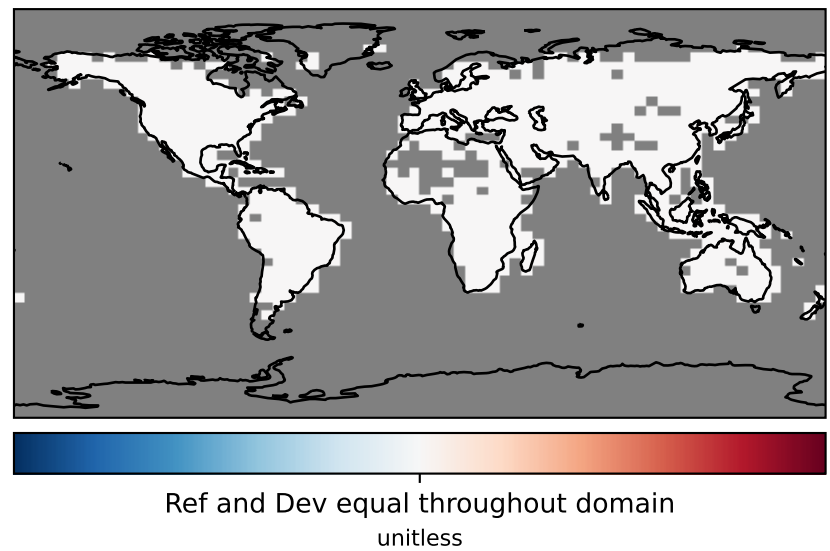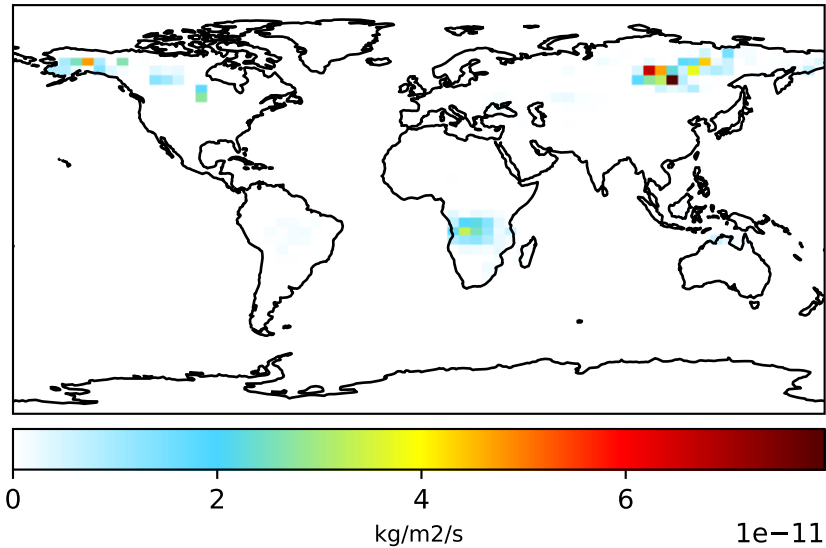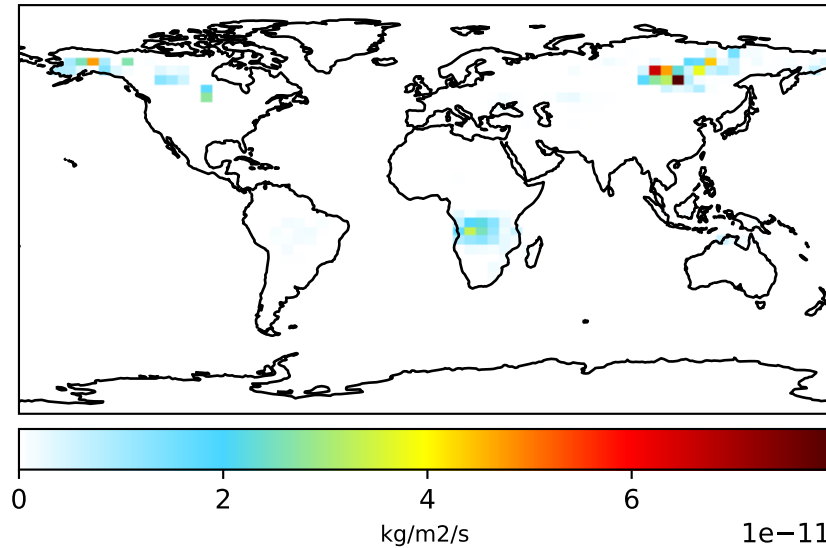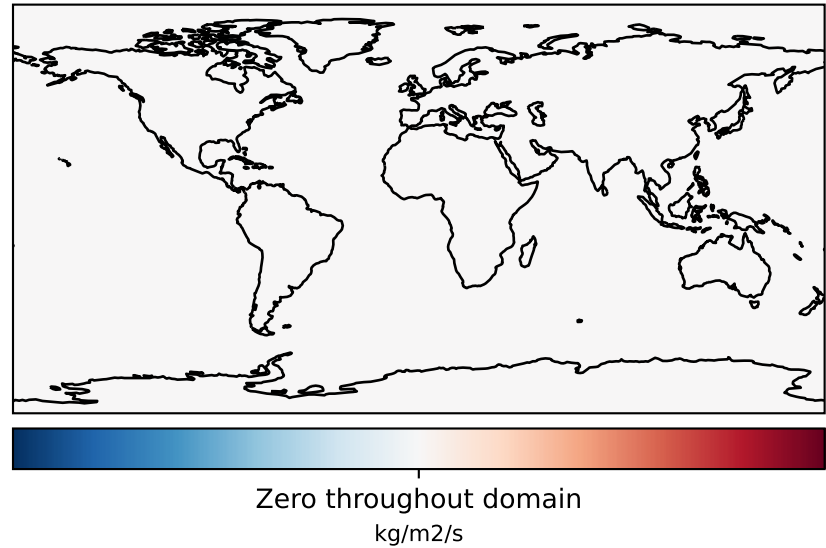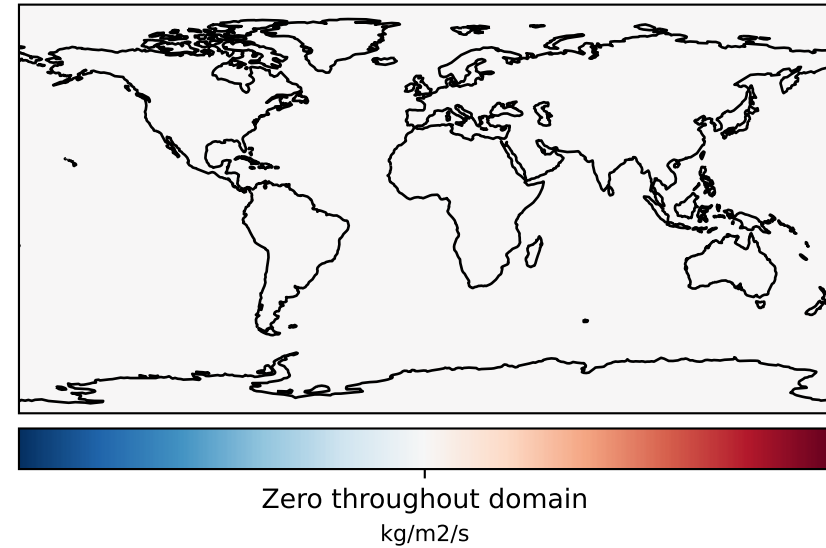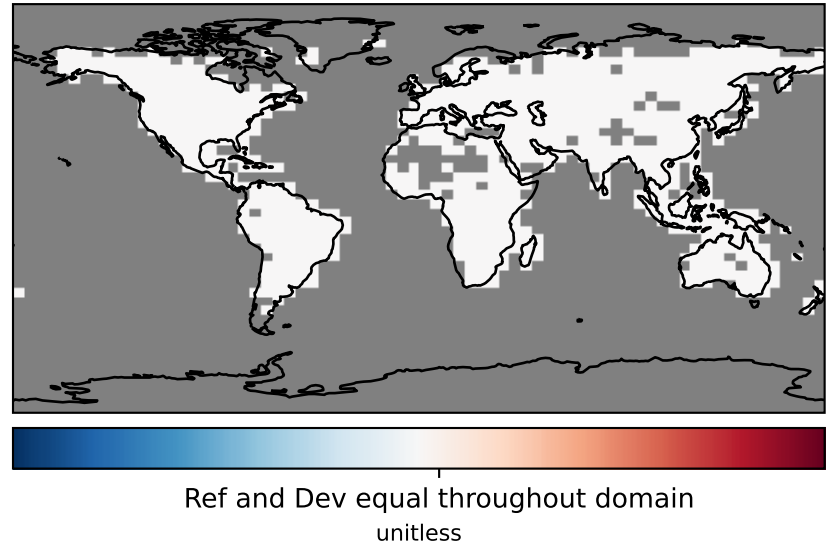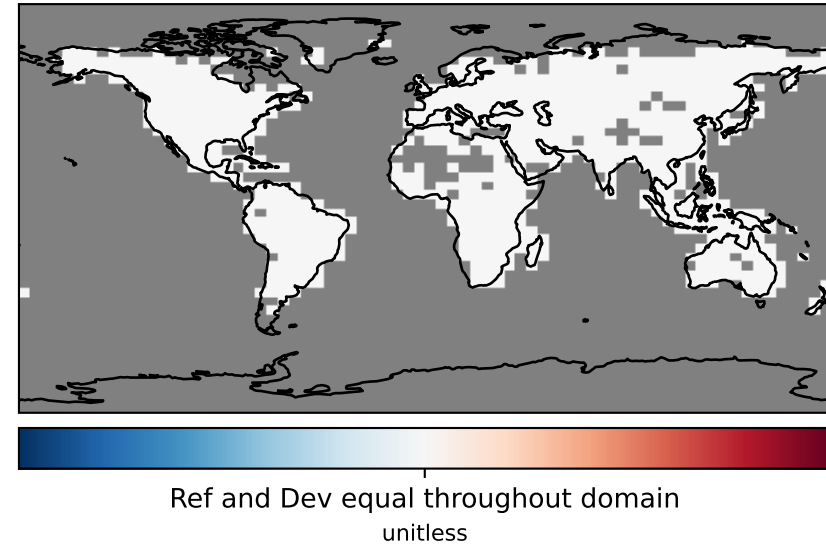Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisPHEN_Total