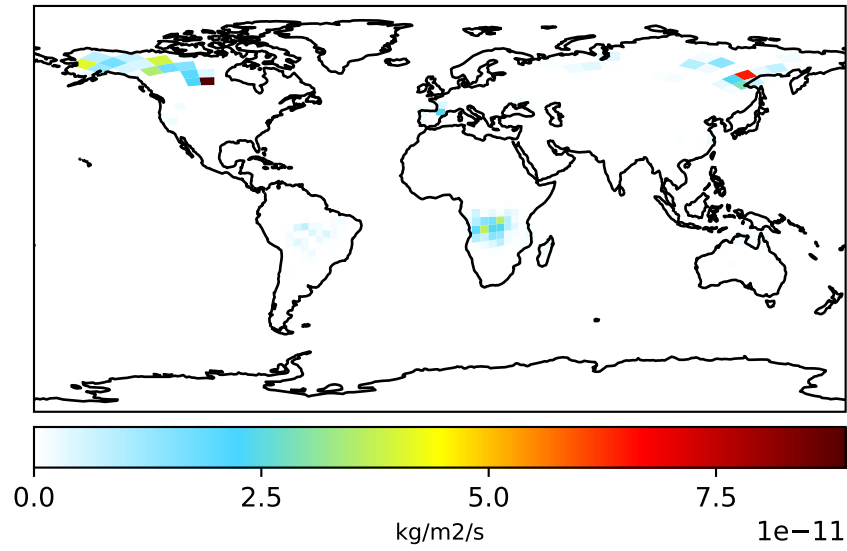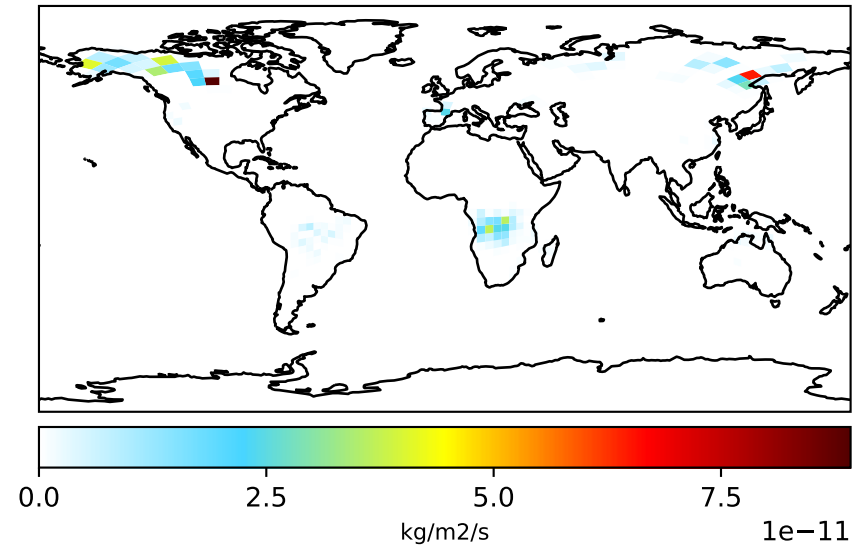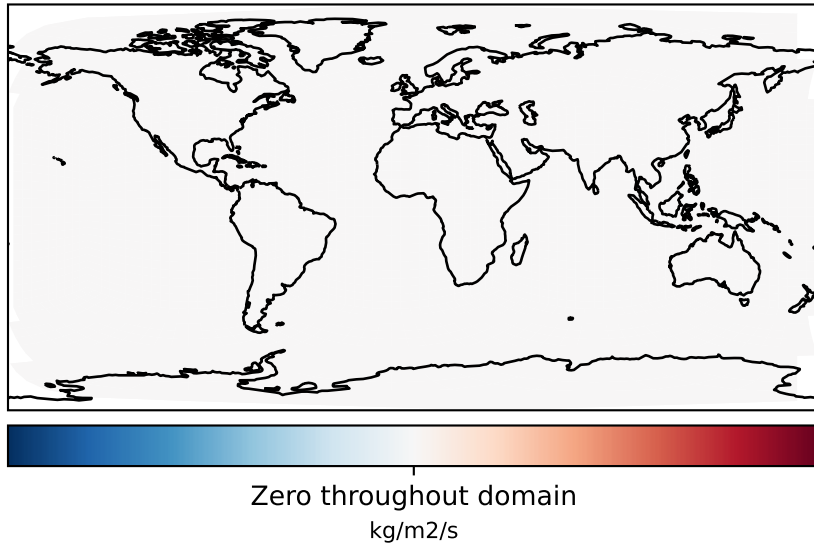EmisACET_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24
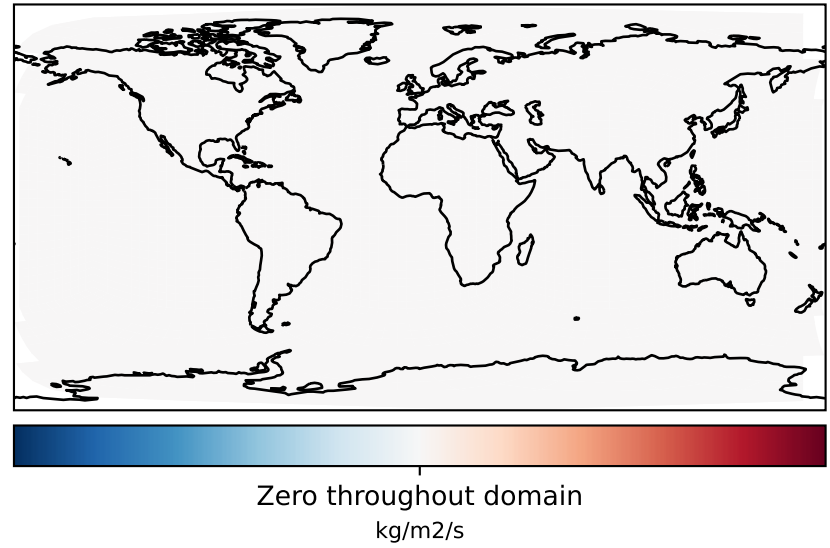
Raw GEOS-FP input, 3-hr winds (Dev)
c24

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

EmisACTA_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

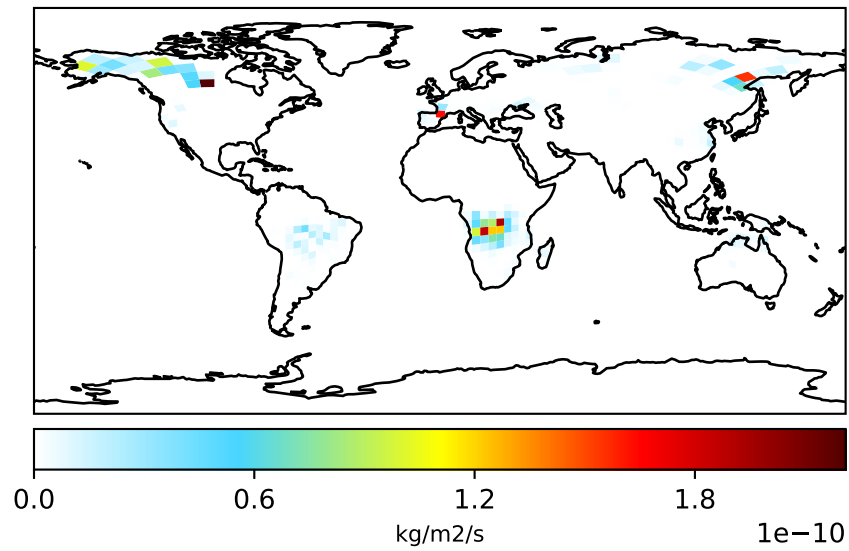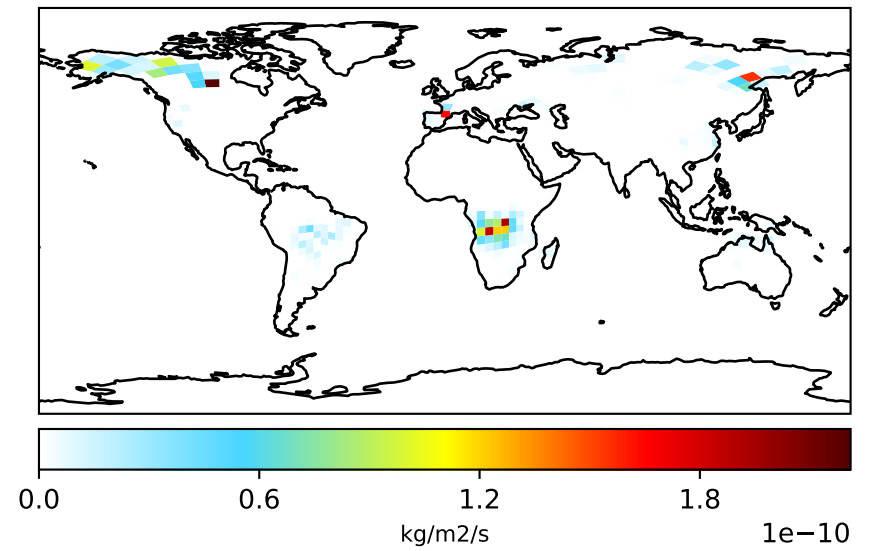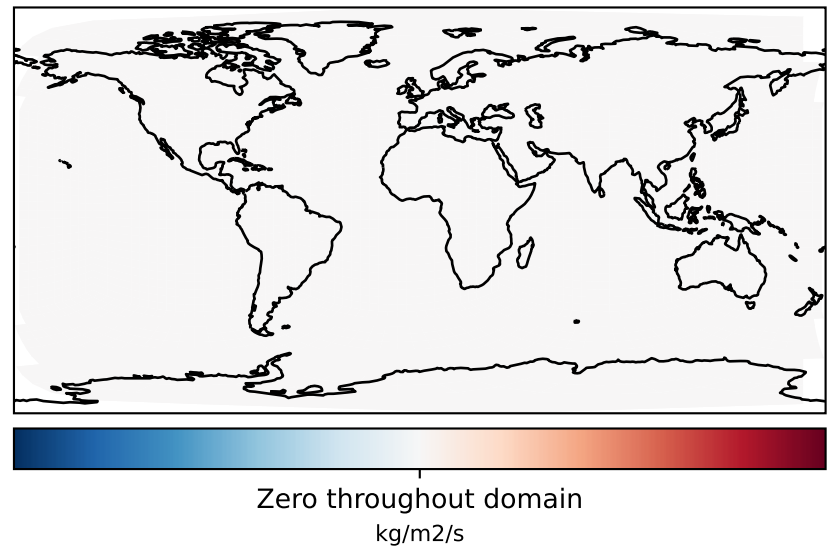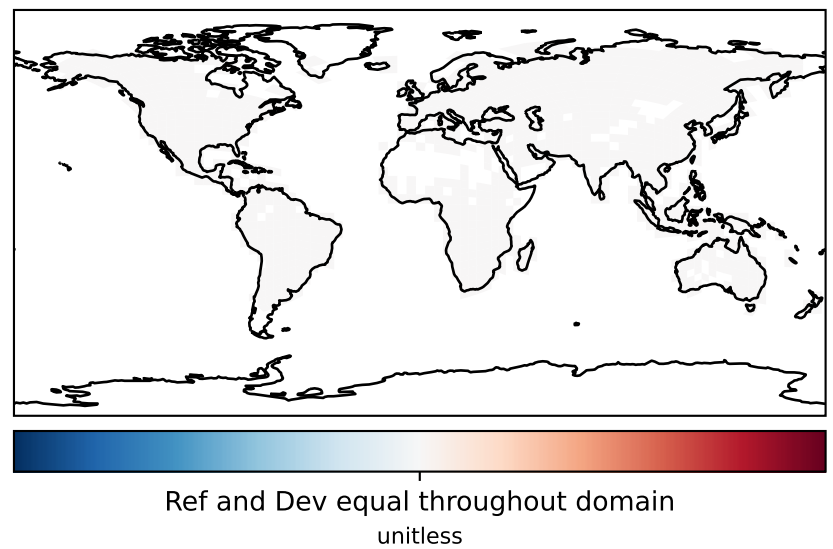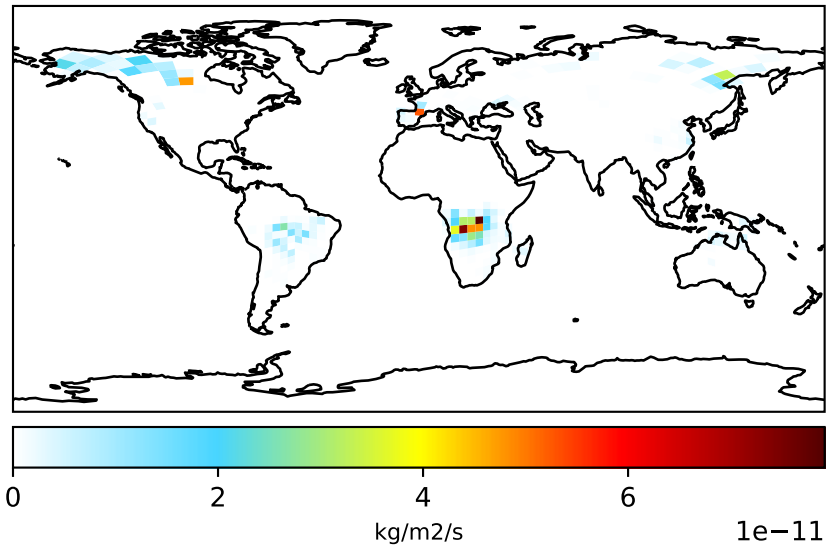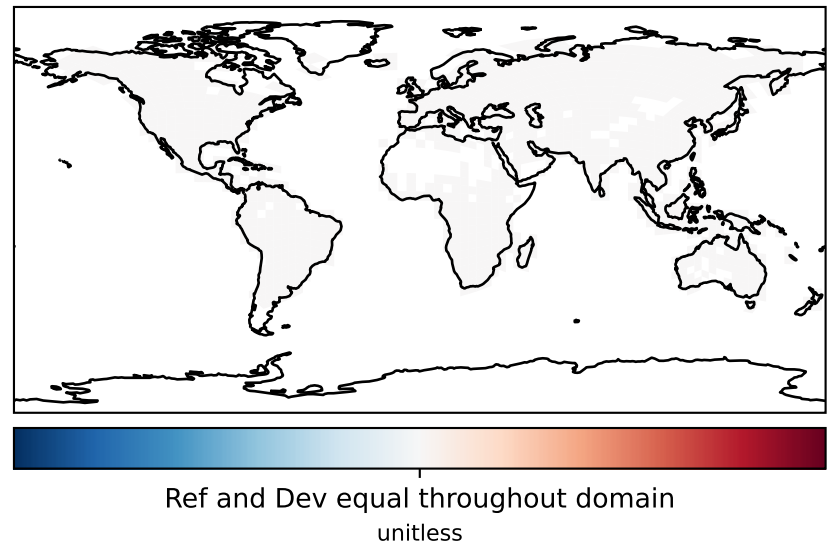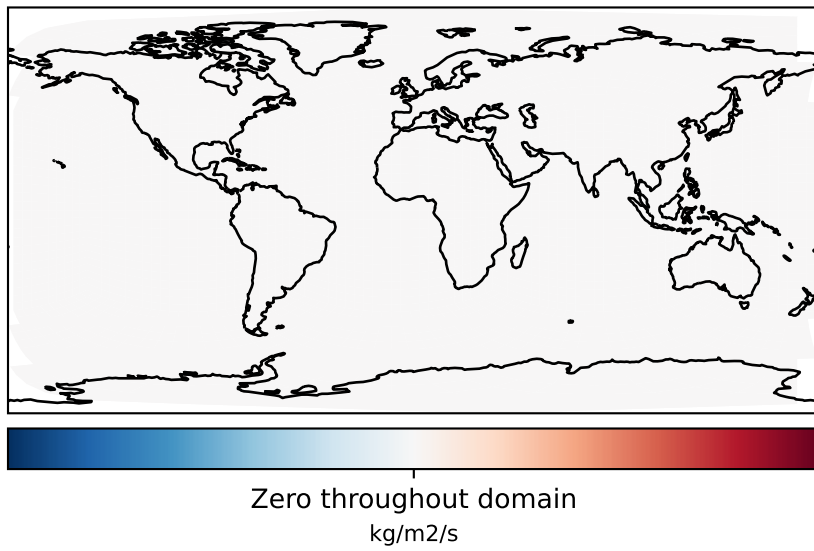Difference
Dev - Ref, Restricted Range [5%,95%]

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
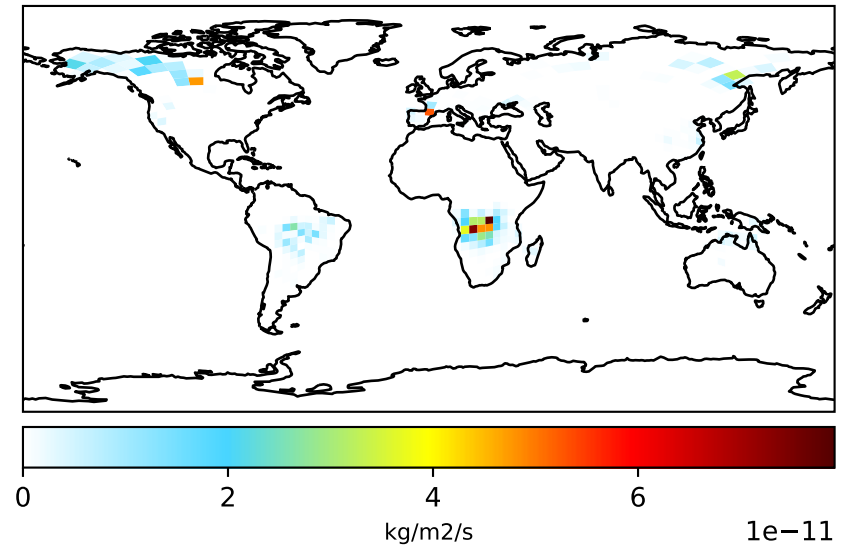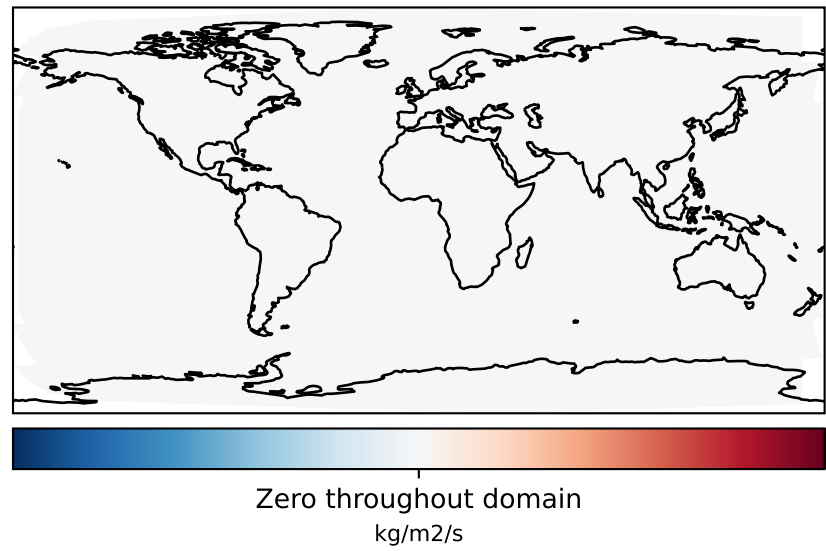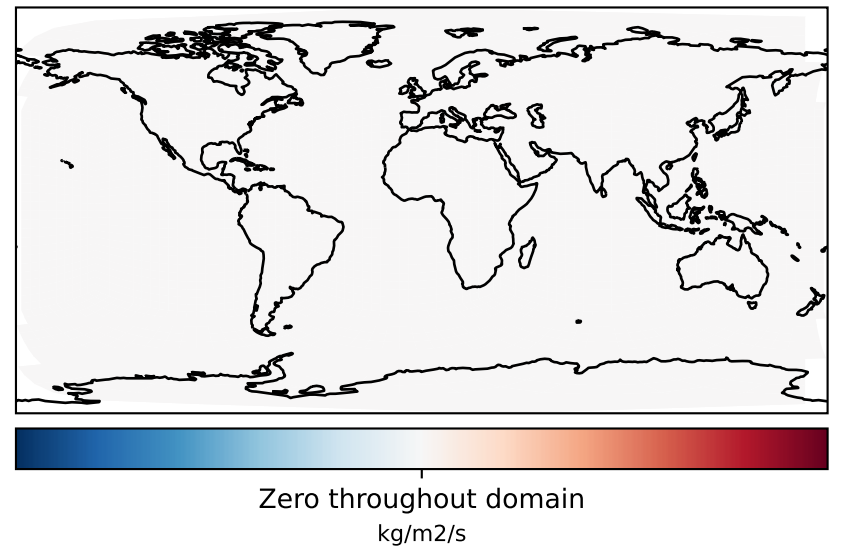unitless

Ref and Dev equal throughout domain
unitless

EmisALD2_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)	Raw GEOS-FP input, 3-hr winds (Dev)
c24	c24

kg/m2/s   1e−11

kg/m2/s   1e−11

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

Zero throughout domain

kg/m2/s

Zero throughout domain

kg/m2/s

Ratio	Ratio
Dev/Ref, Dynamic Range	Dev/Ref, Fixed Range

Ref and Dev equal throughout domain

unitless

Ref and Dev equal throughout domain
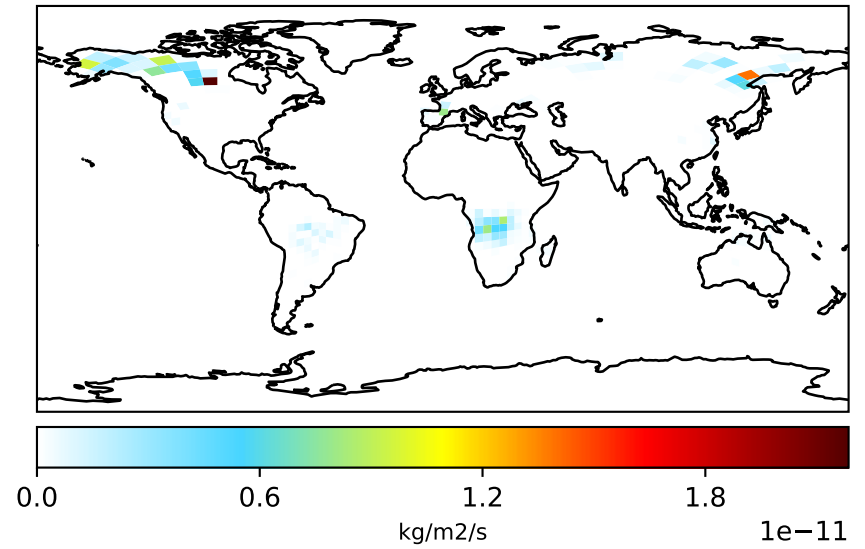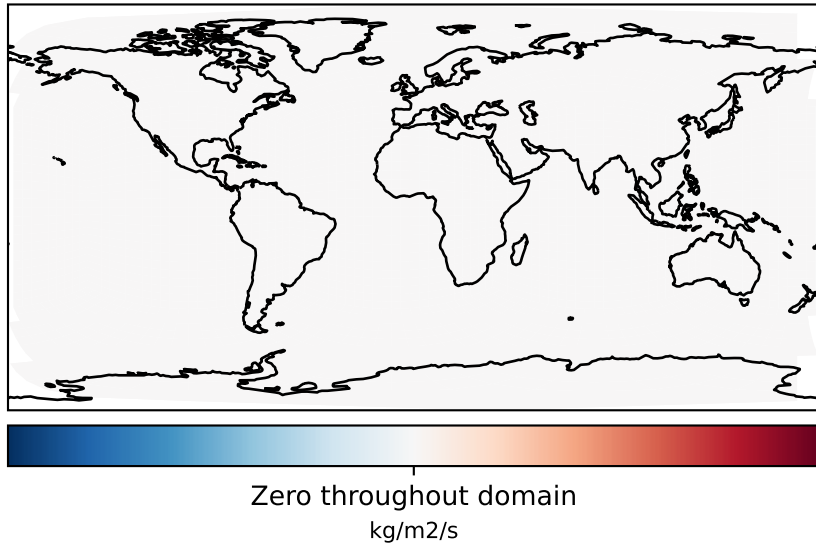
unitless

EmisALK4_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s   1e−11

kg/m2/s   1e−11

Difference
Dev - Ref, Dynamic Range

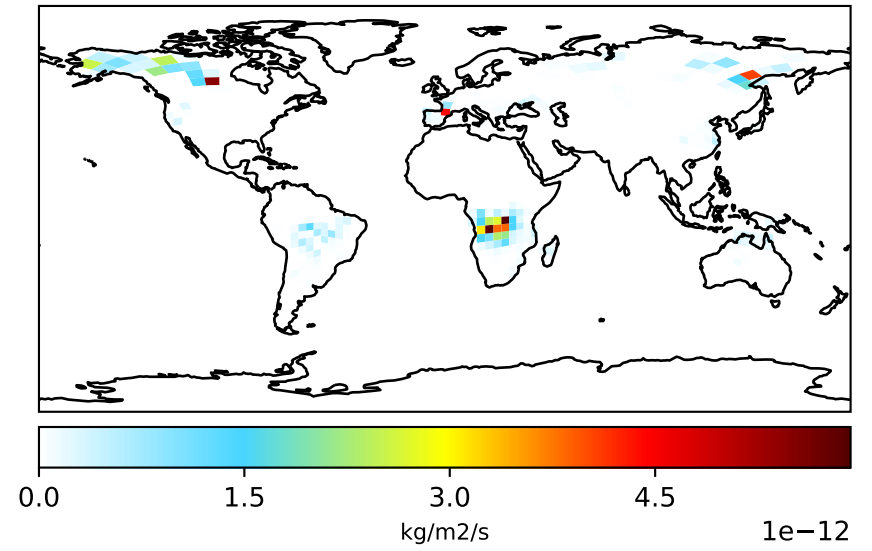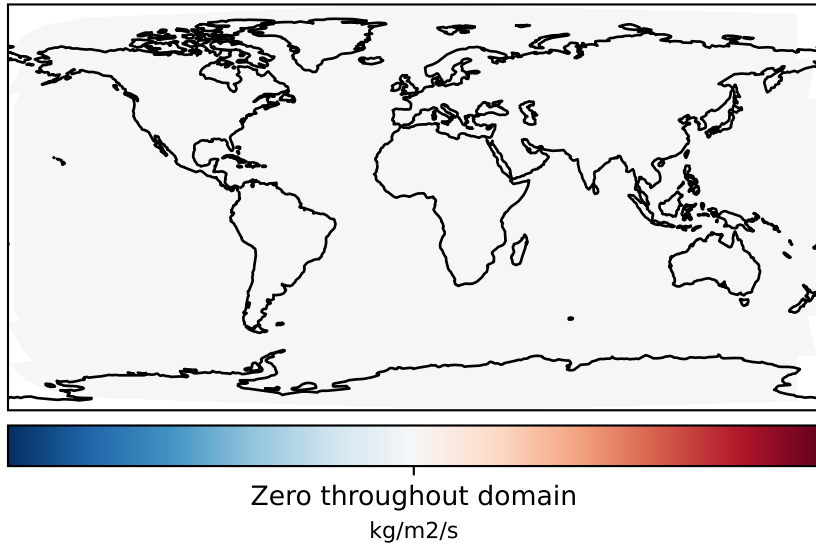Difference
Dev - Ref, Restricted Range [5%,95%]

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

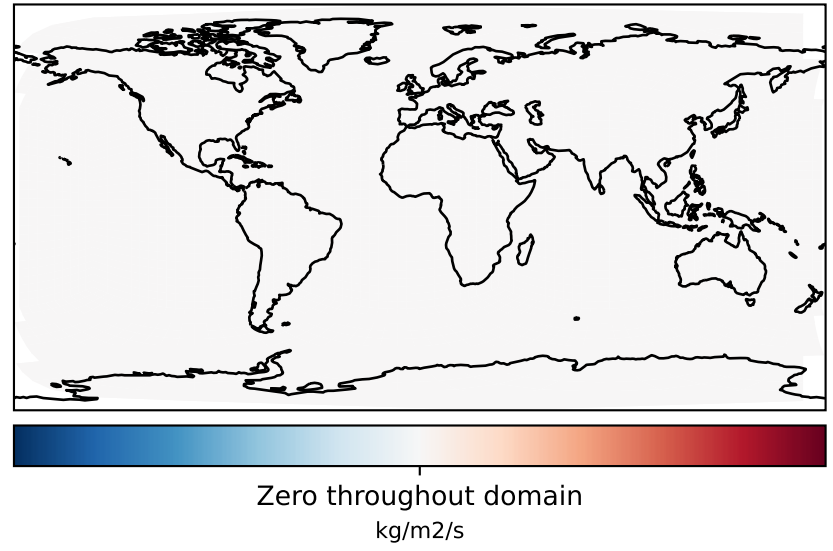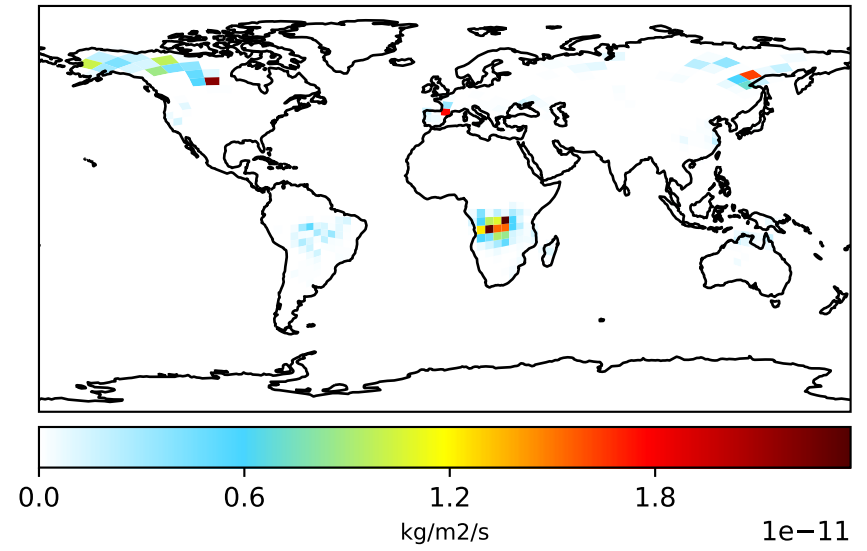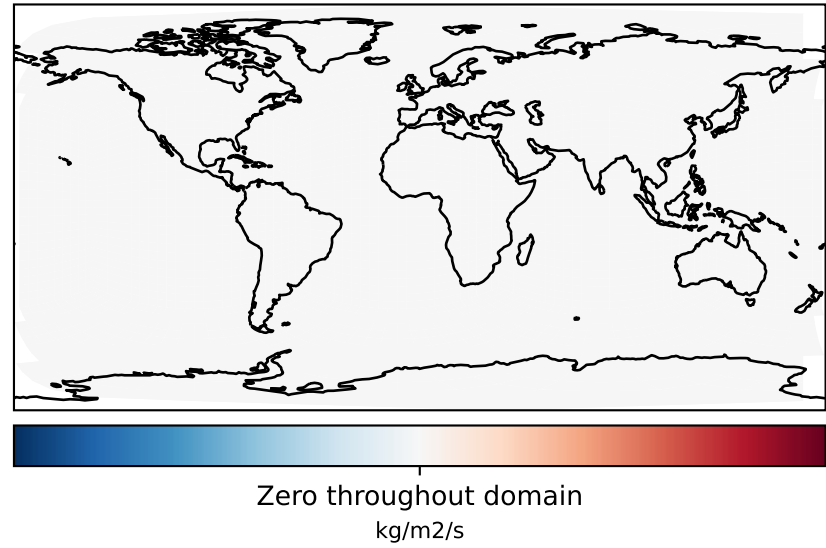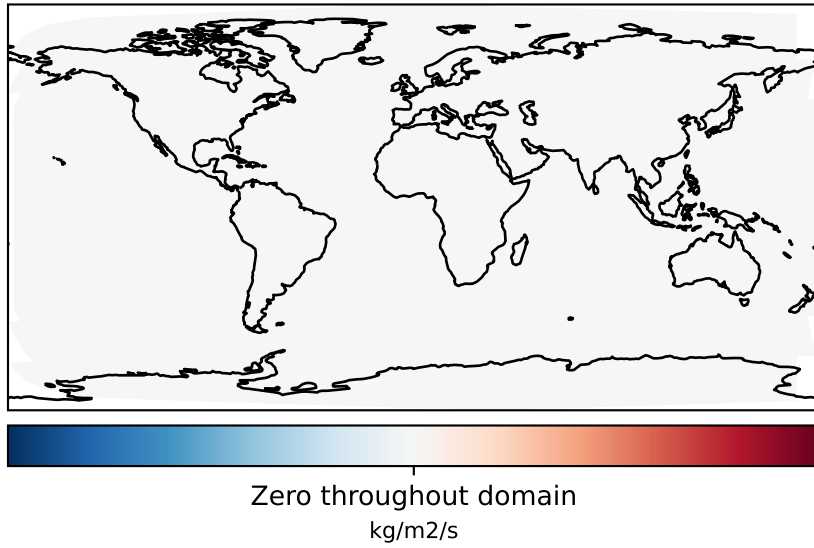# EmisBCPI_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

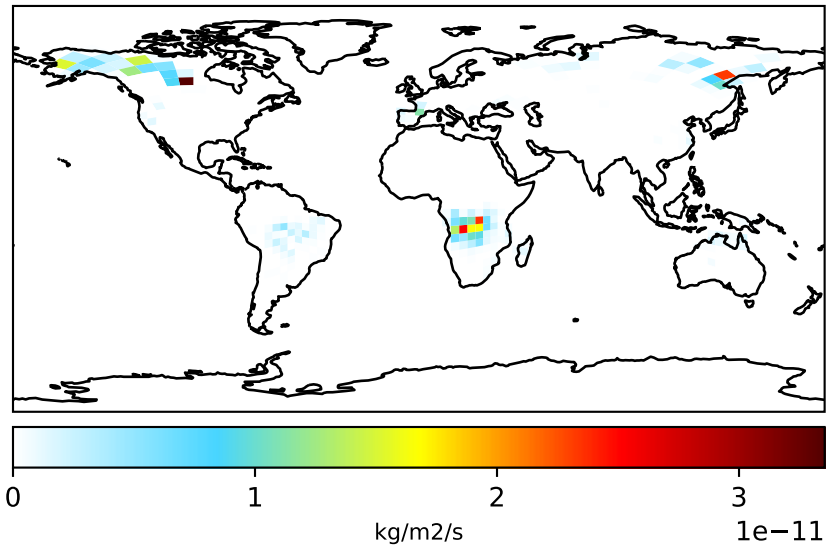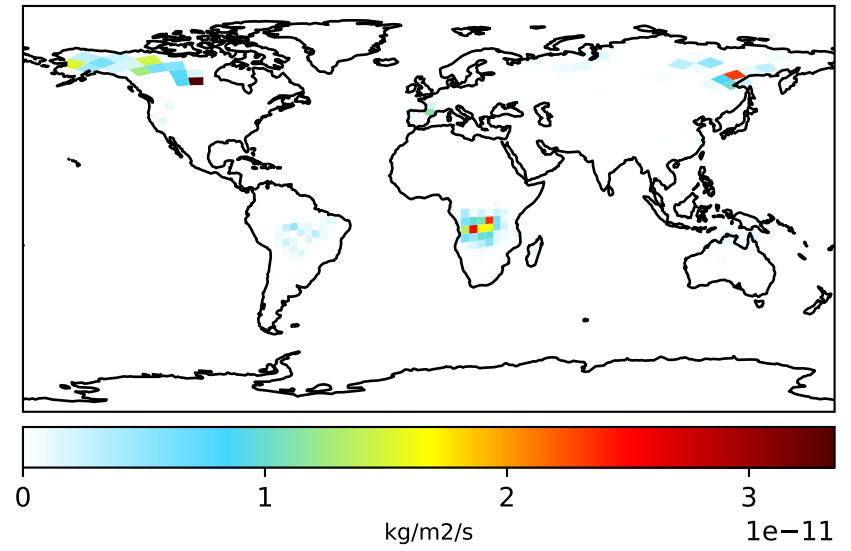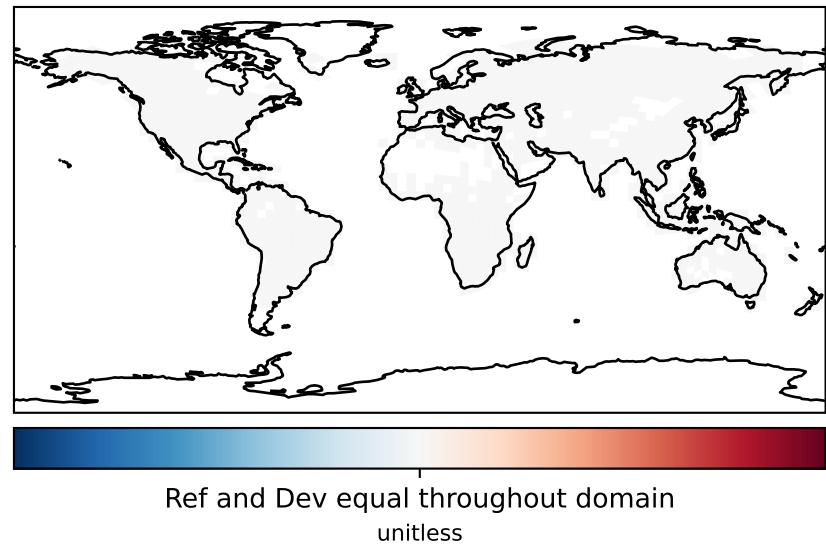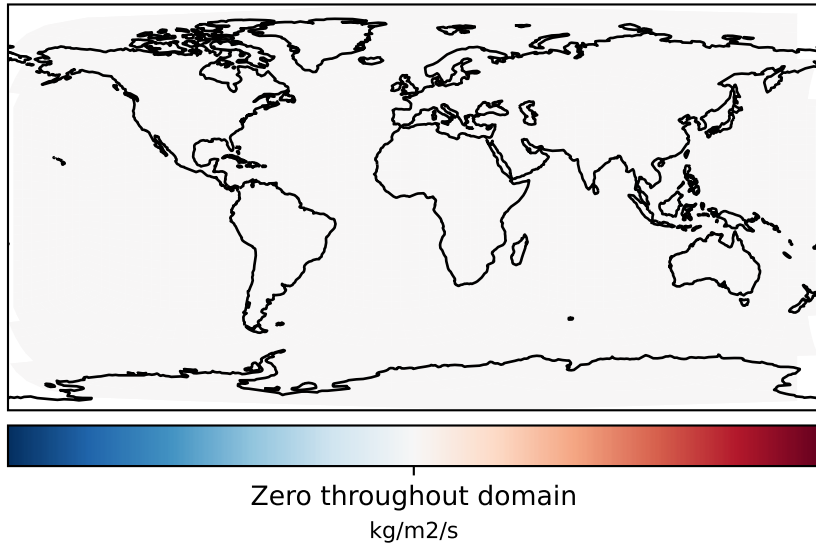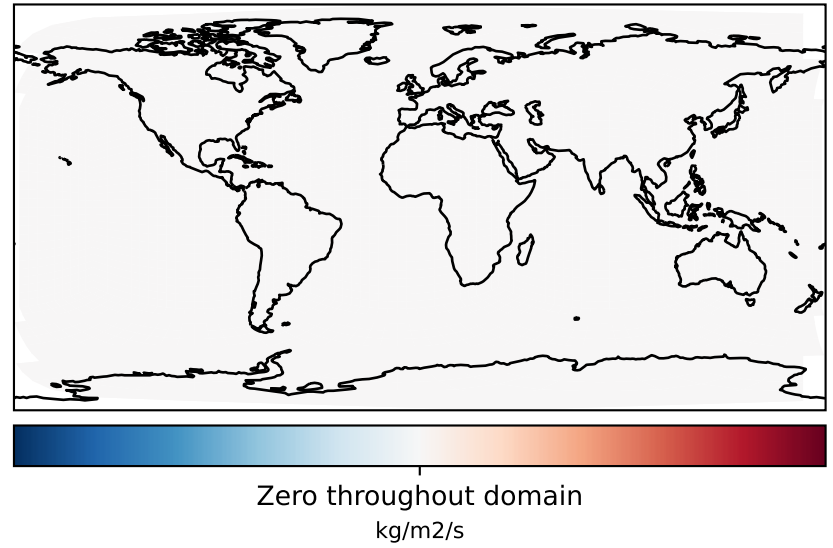Difference
Dev - Ref, Restricted Range [5%,95%]

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

EmisBCPO_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
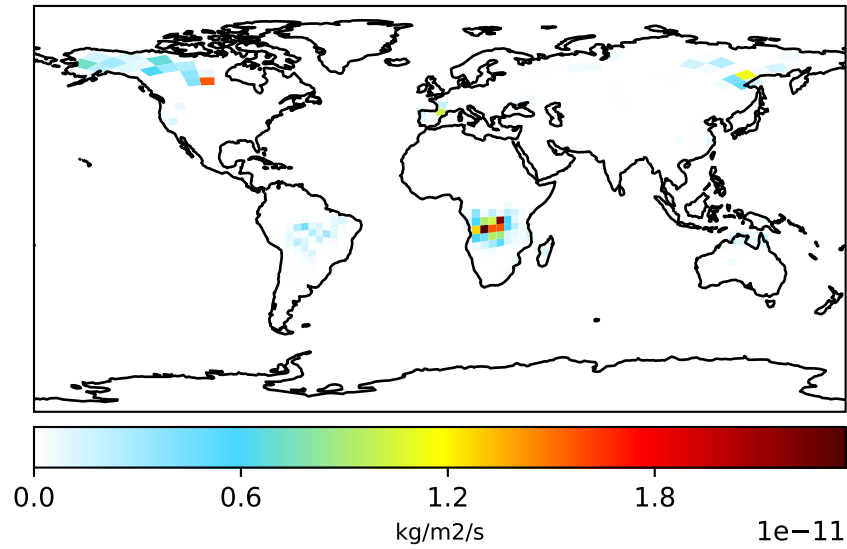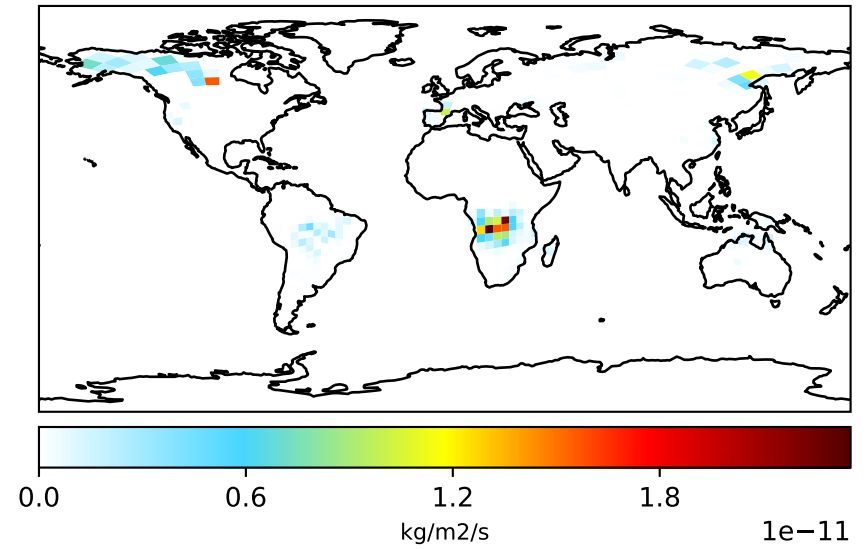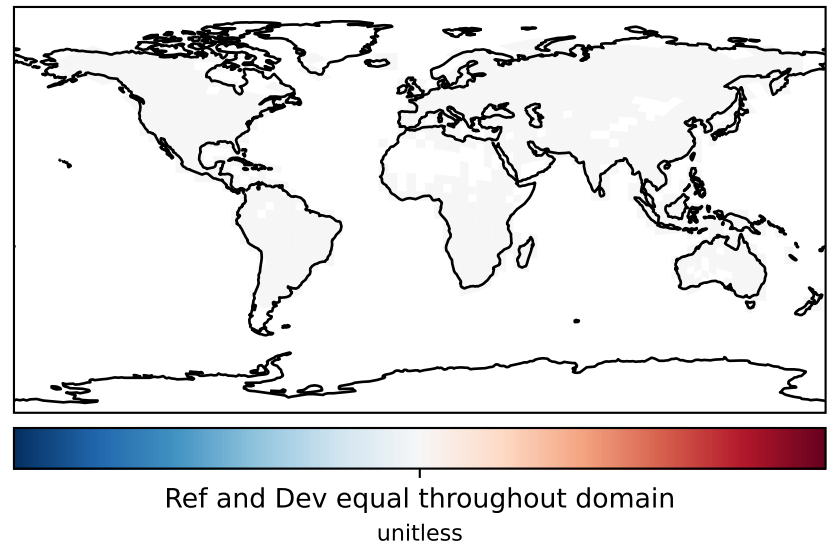Dev - Ref, Dynamic Range

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
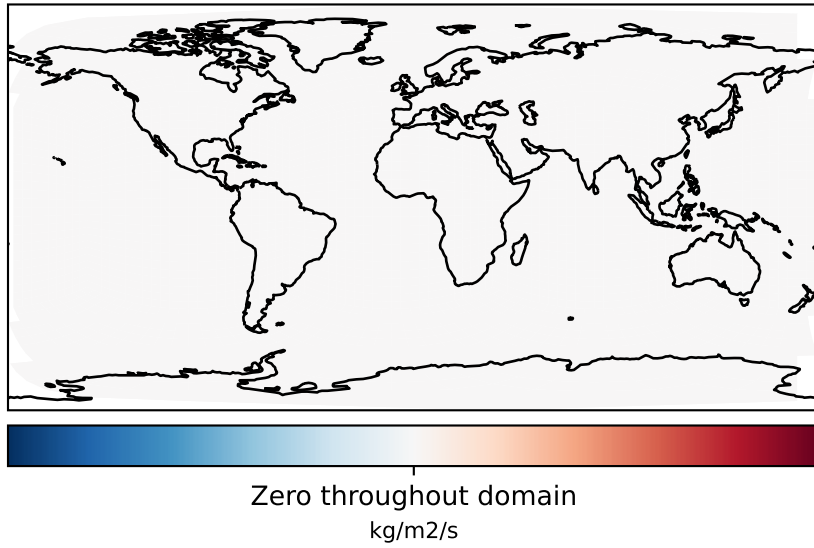unitless
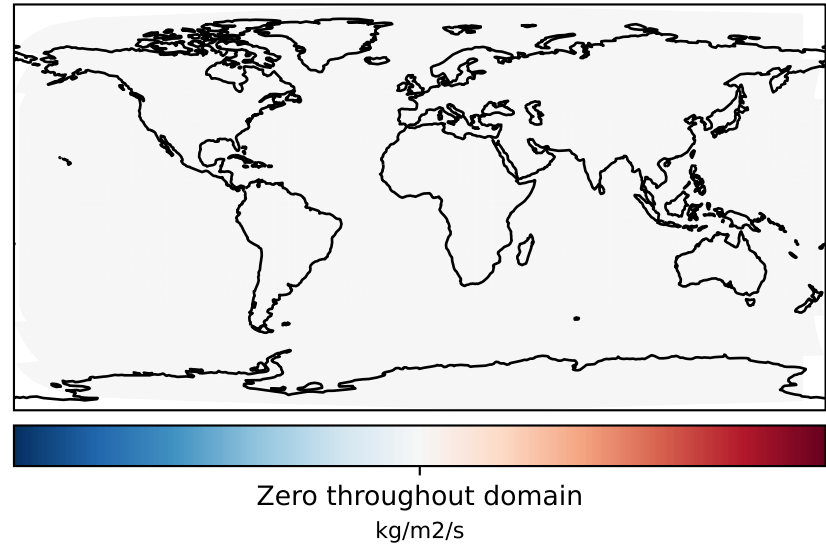
EmisBENZ_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
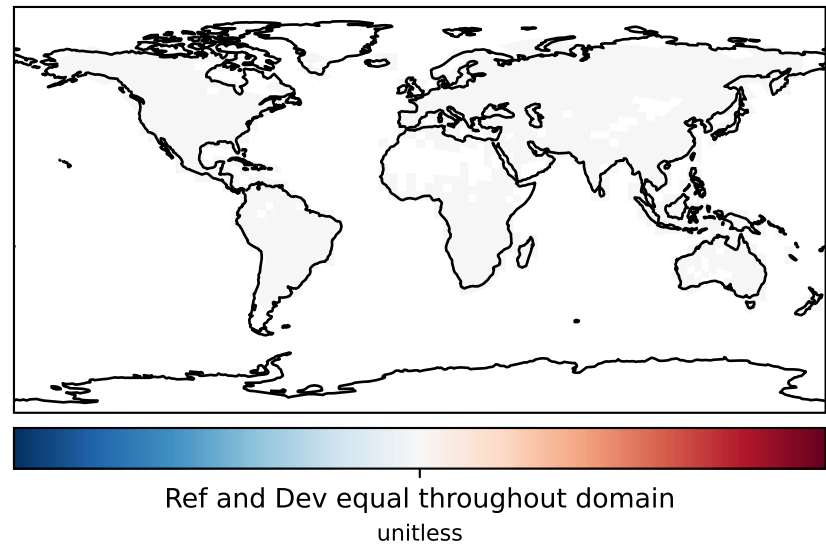c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
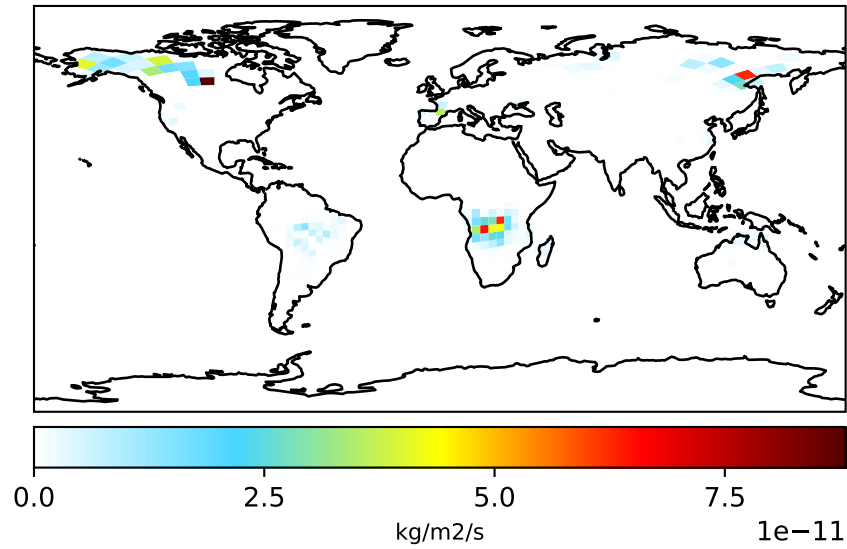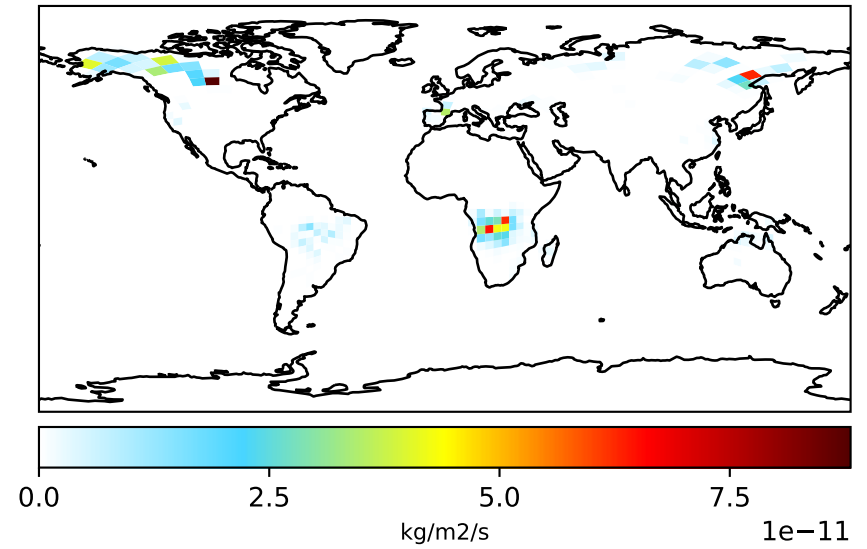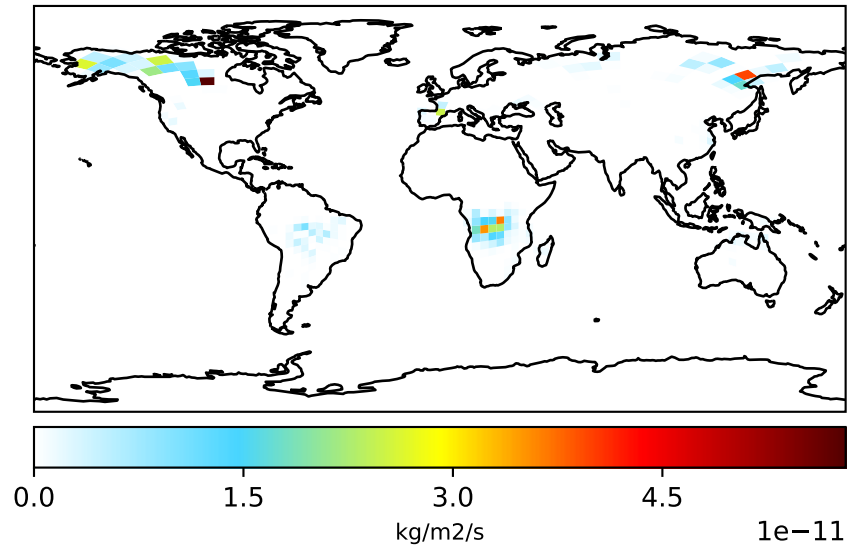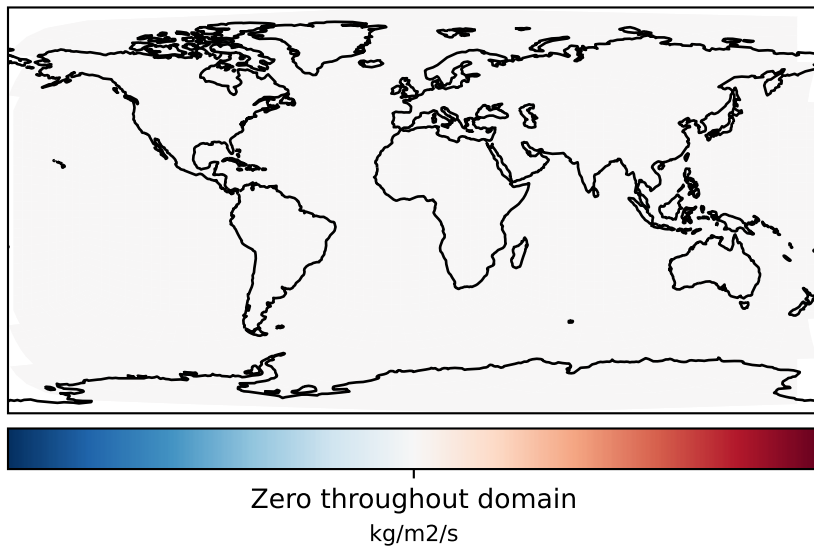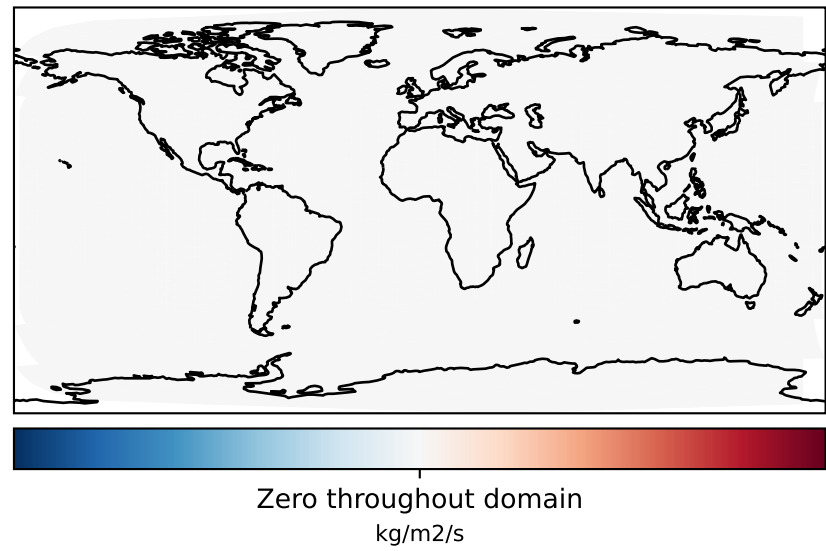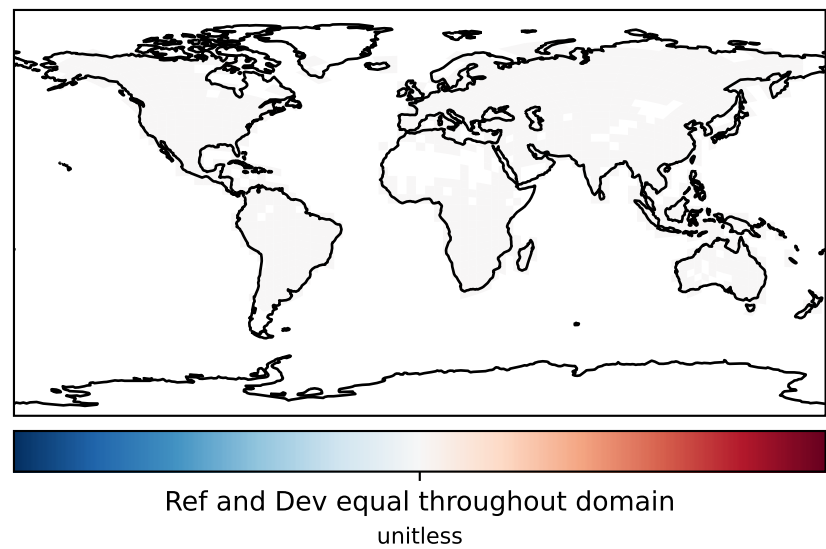kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
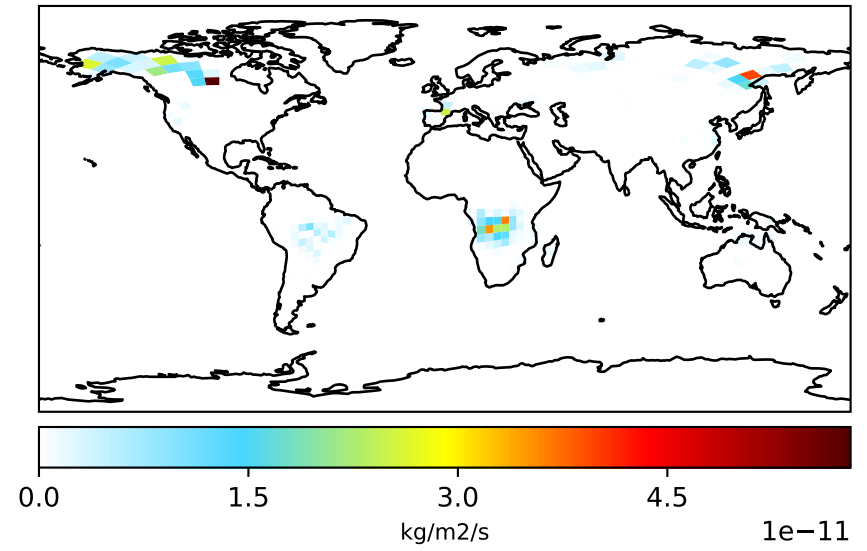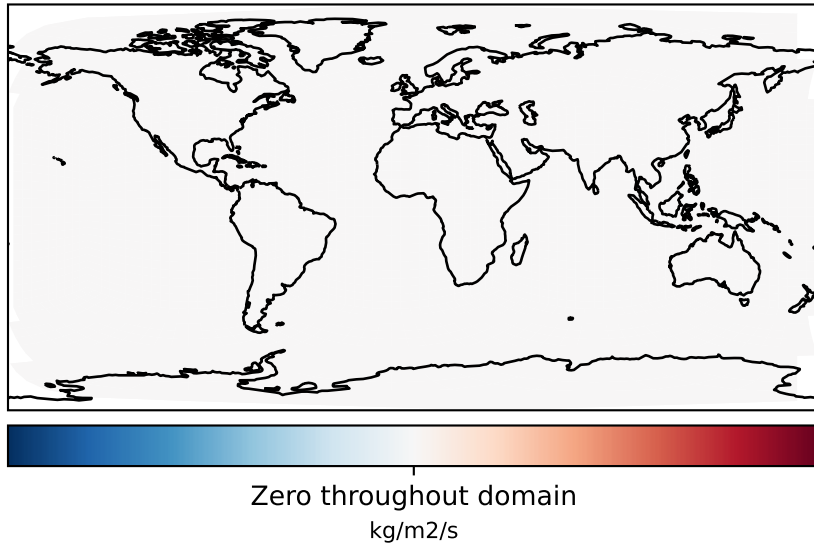unitless

EmisC2H2_BioBurn

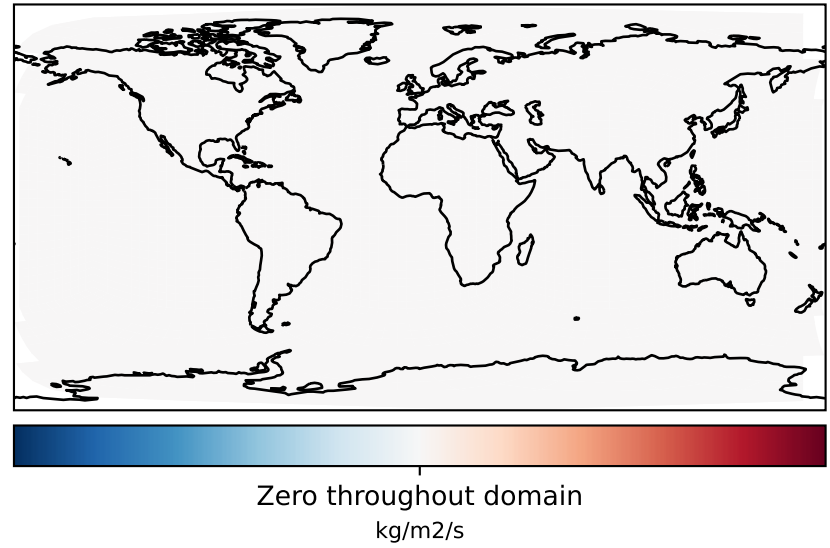# EmisC2H4_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24
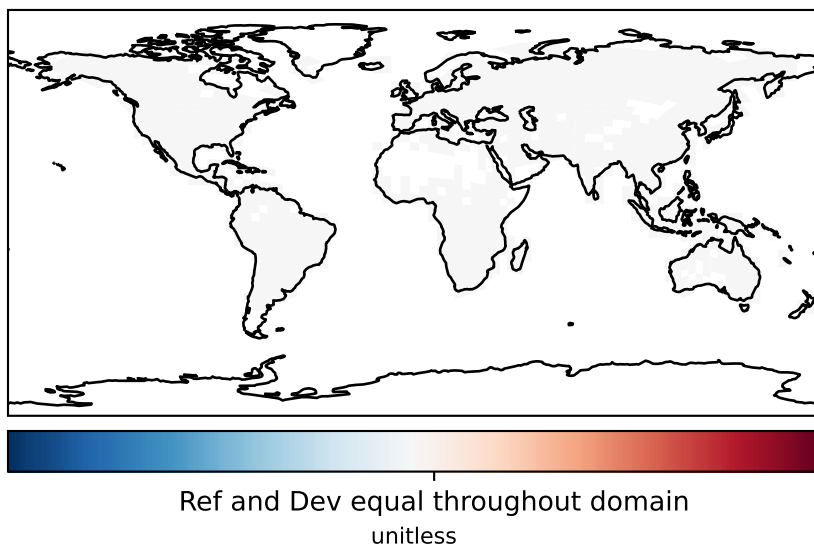
Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

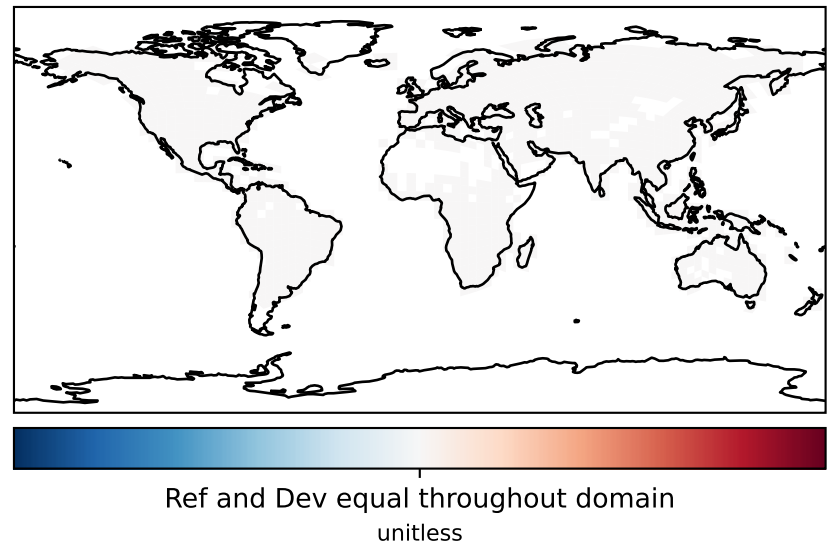Difference
Dev - Ref, Restricted Range [5%,95%]

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

EmisC2H6_BioBurn
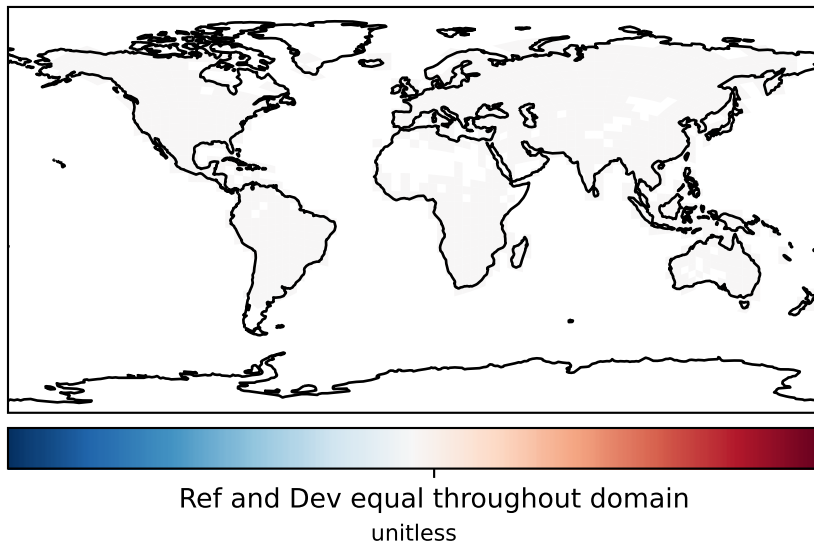
| Processed GEOS-FP input, 3-hr winds (Ref) c24 | Raw GEOS-FP input, 3-hr winds (Dev) c24 |

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
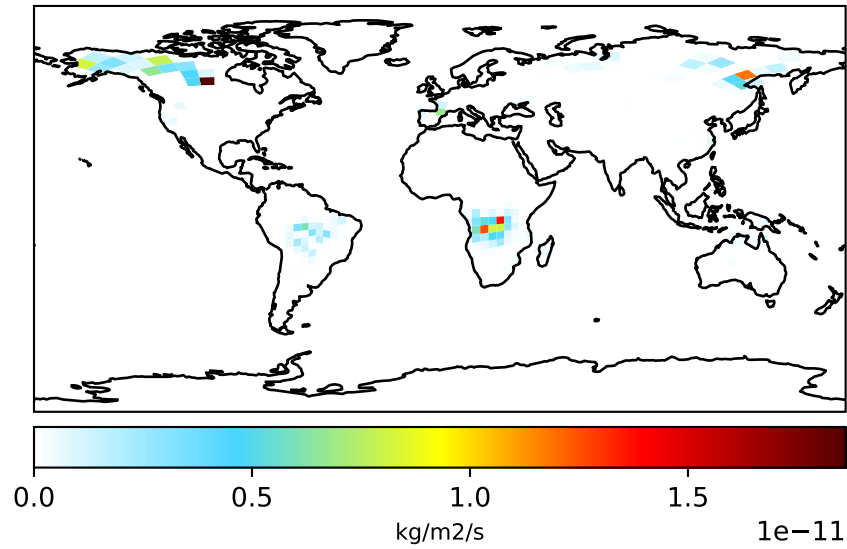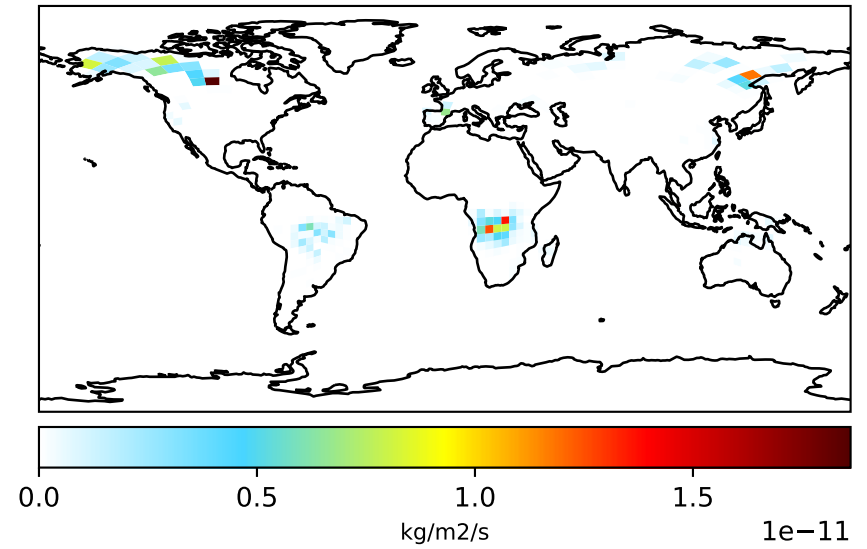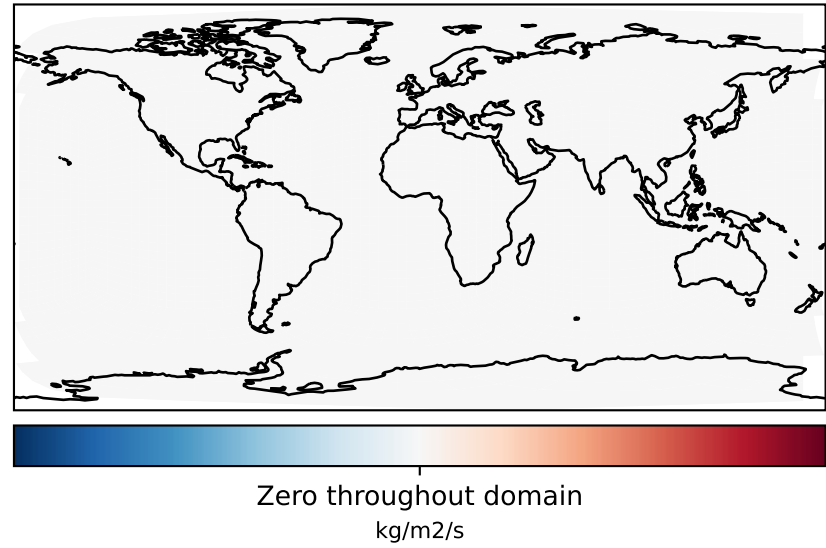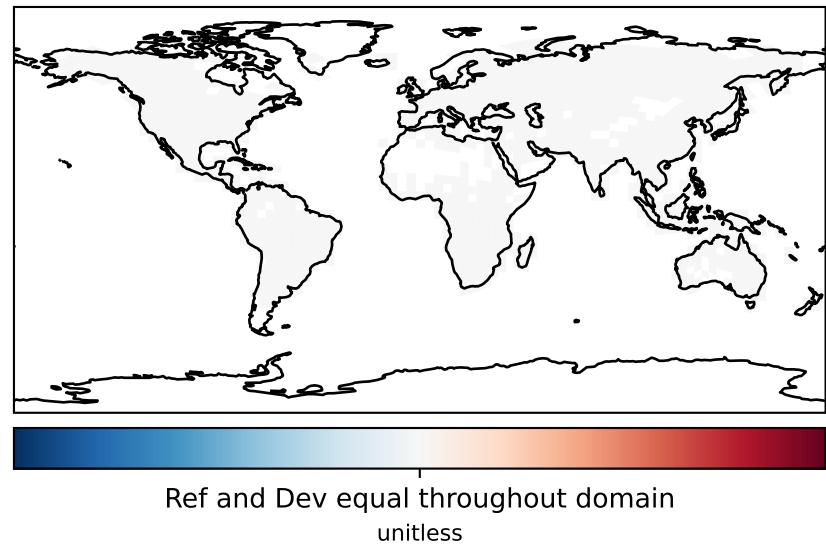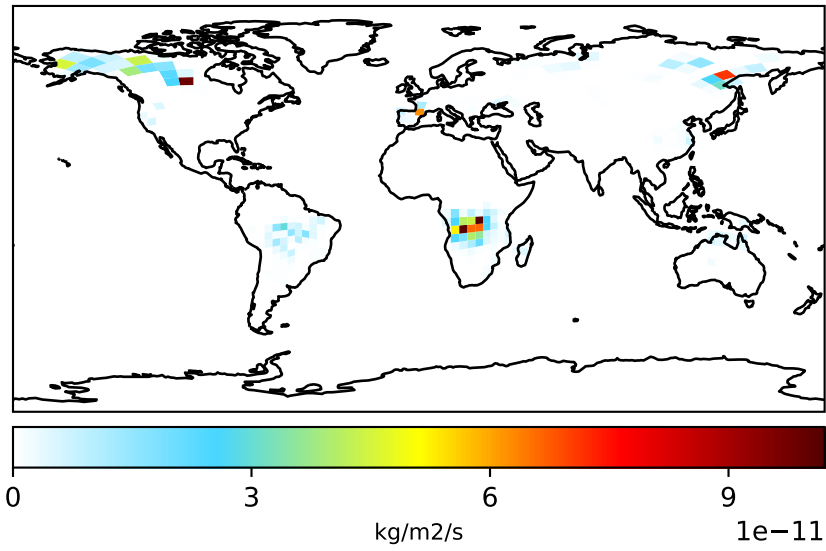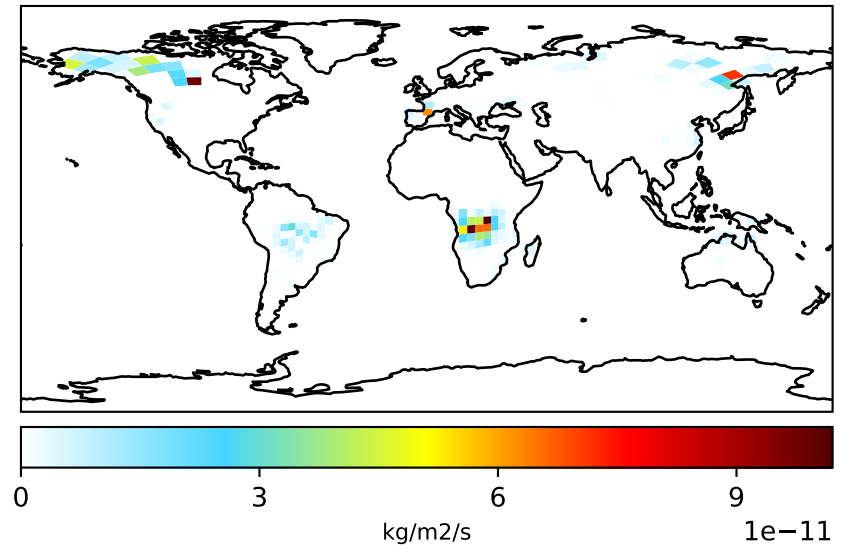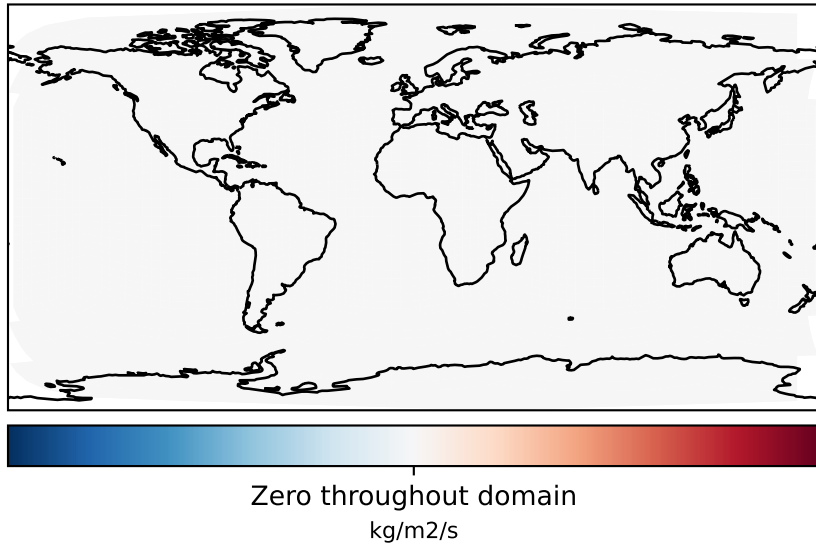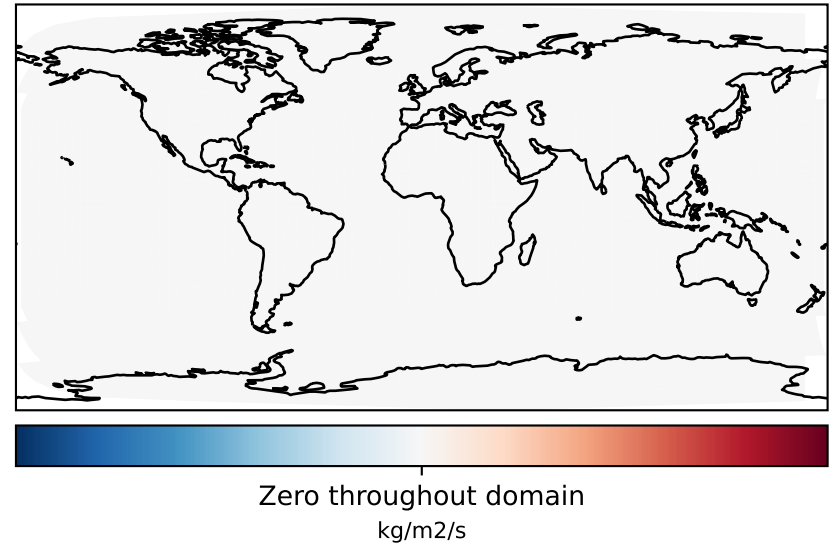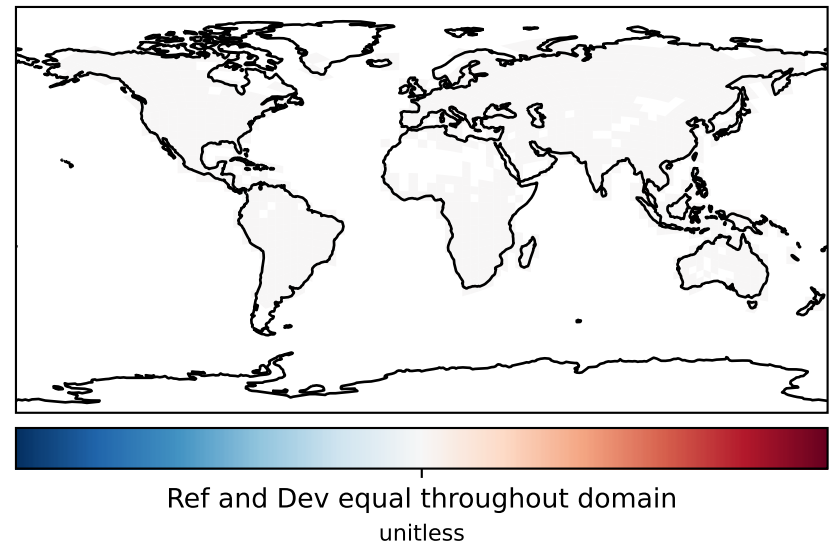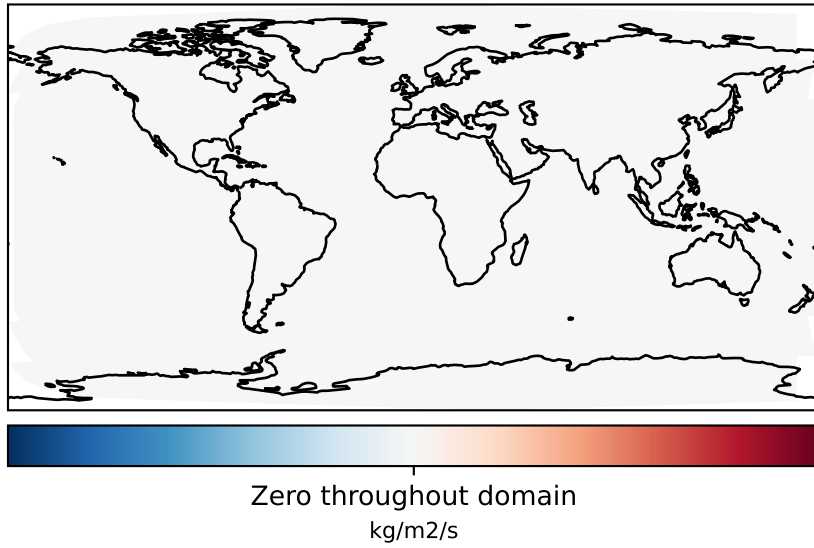kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

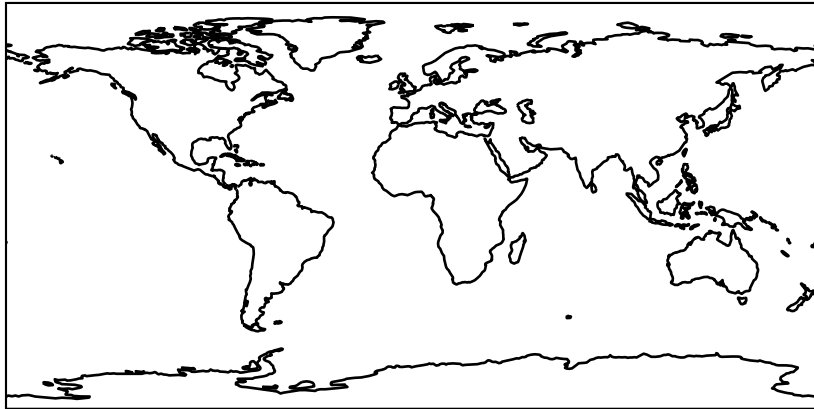Ref and Dev equal throughout domain
unitless
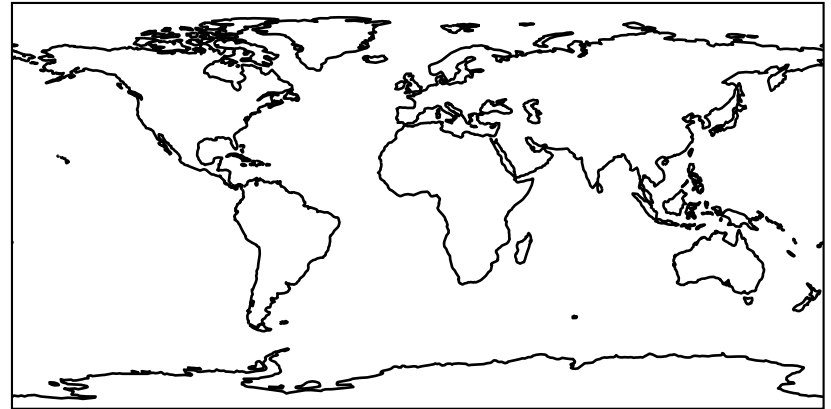
EmisC3H8_BioBurn

EmisCH2O_BioBurn
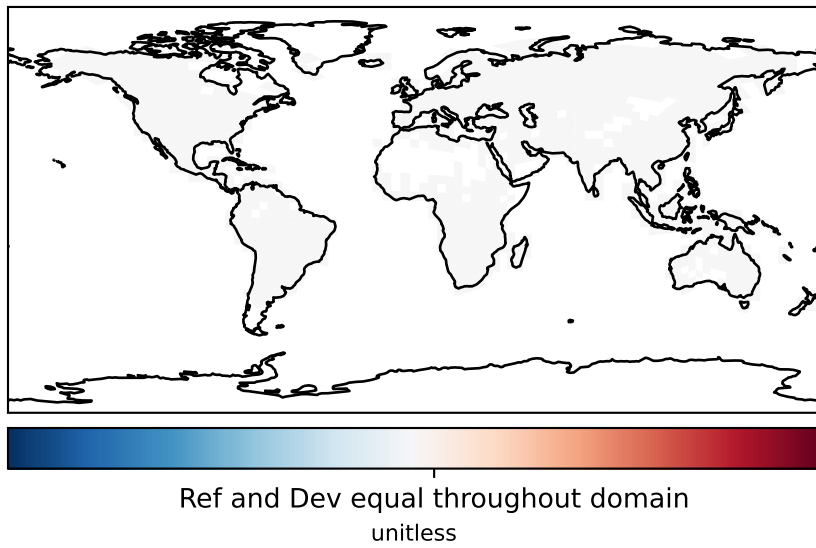
EmisCO2_BioBurn

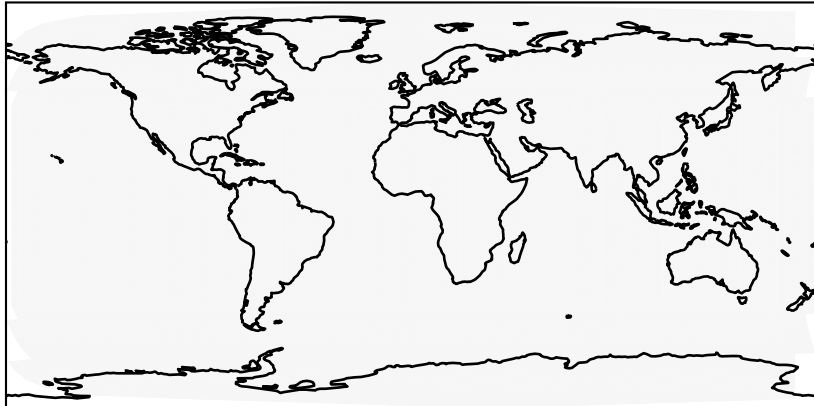Processed GEOS-FP input, 3-hr winds (Ref)
c24

Zero throughout domain
kg/m2/s

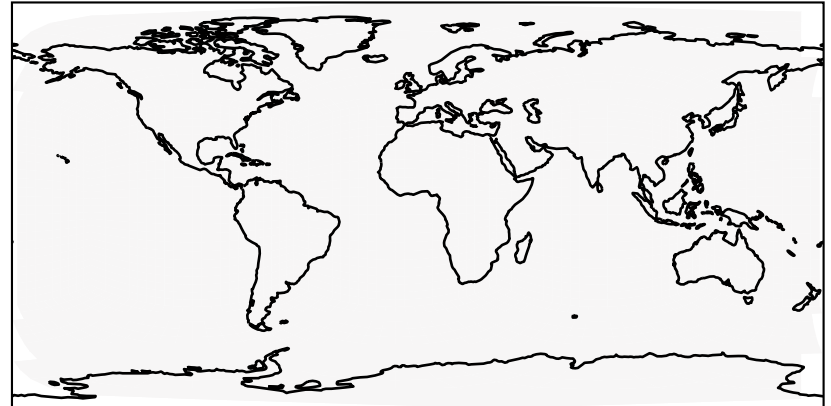Raw GEOS-FP input, 3-hr winds (Dev)
c24

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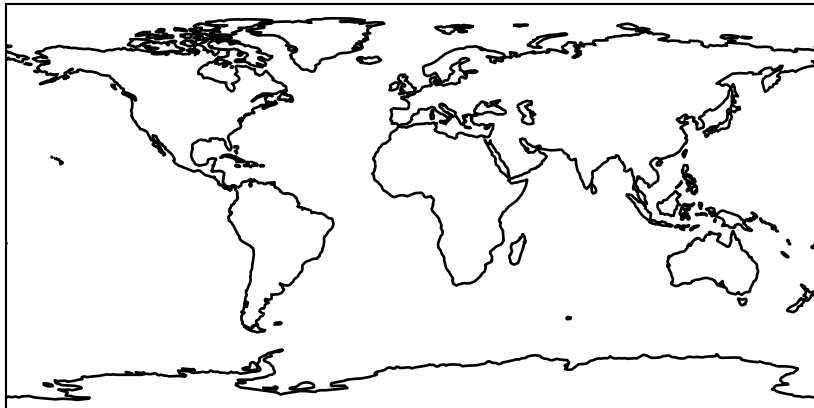
Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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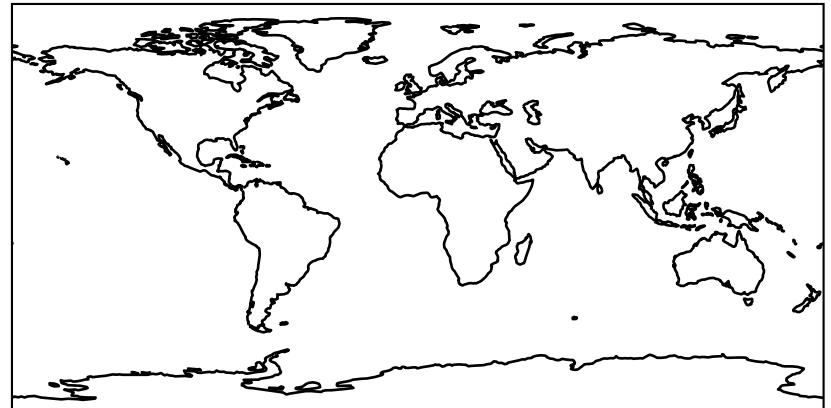Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
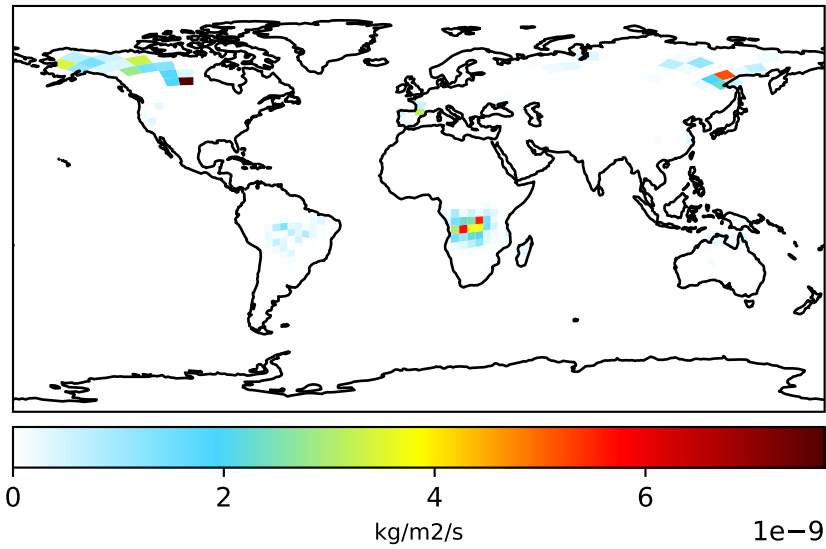
Undefined throughout domain
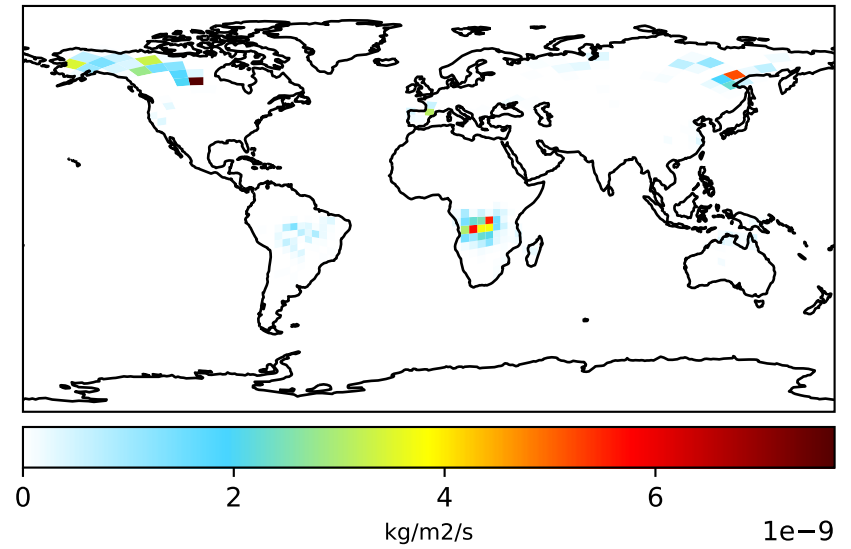unitless

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain
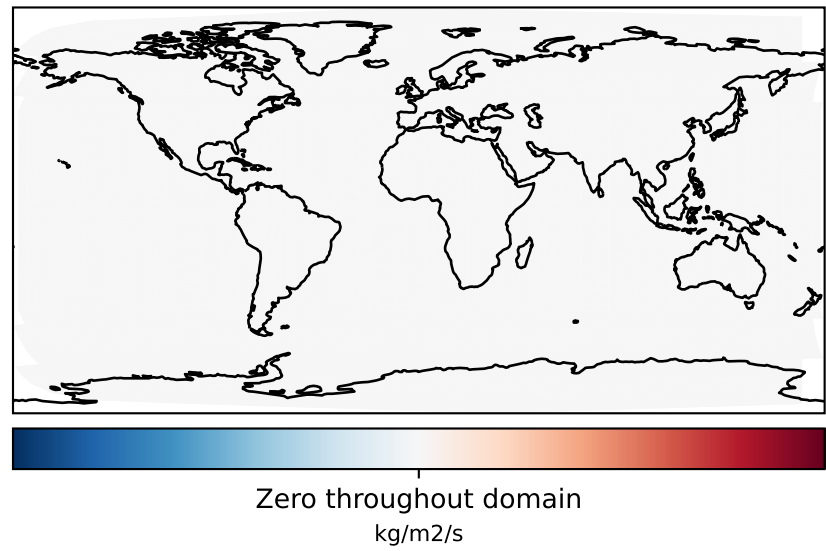unitless

EmisCO_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

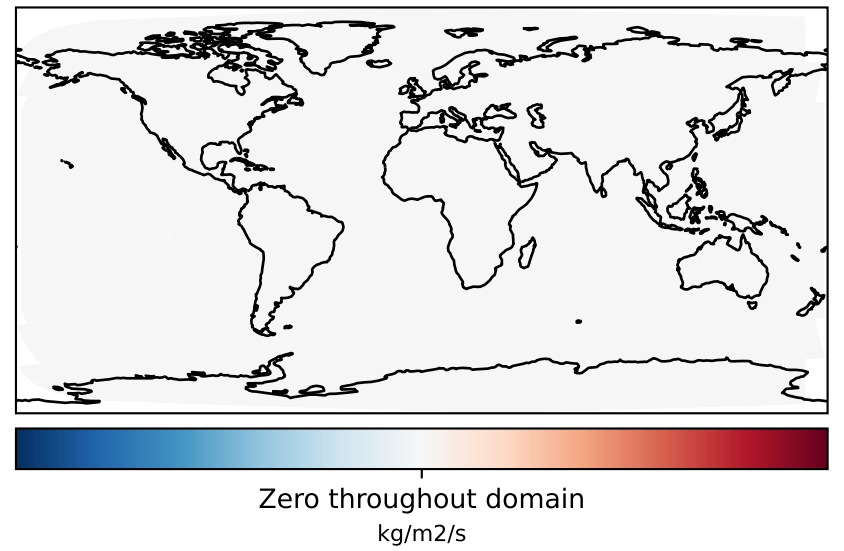Raw GEOS-FP input, 3-hr winds (Dev)
c24

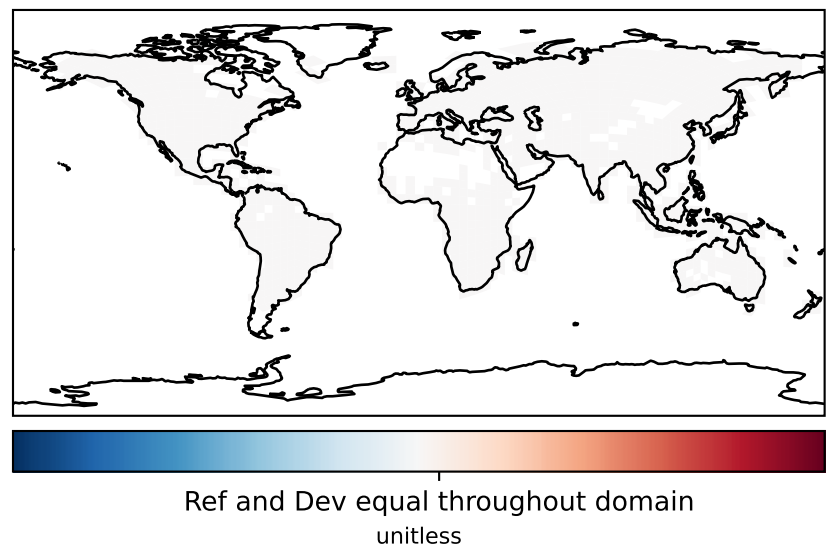kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

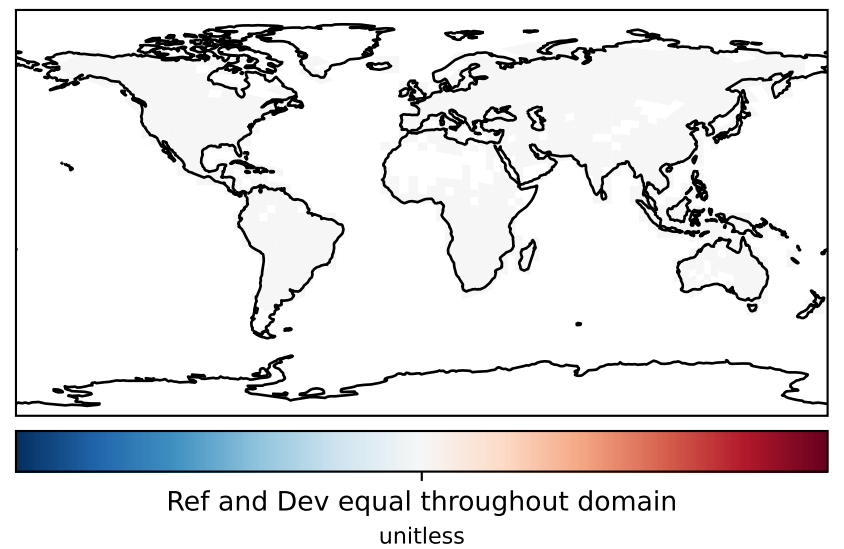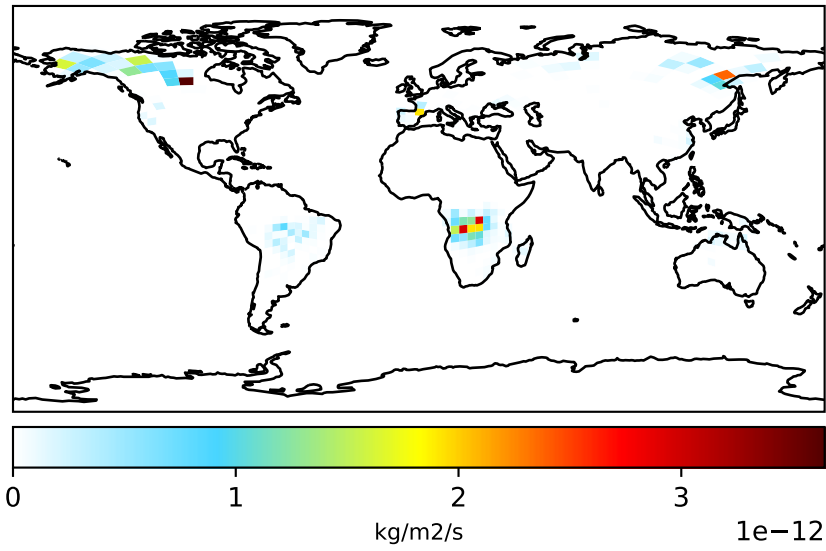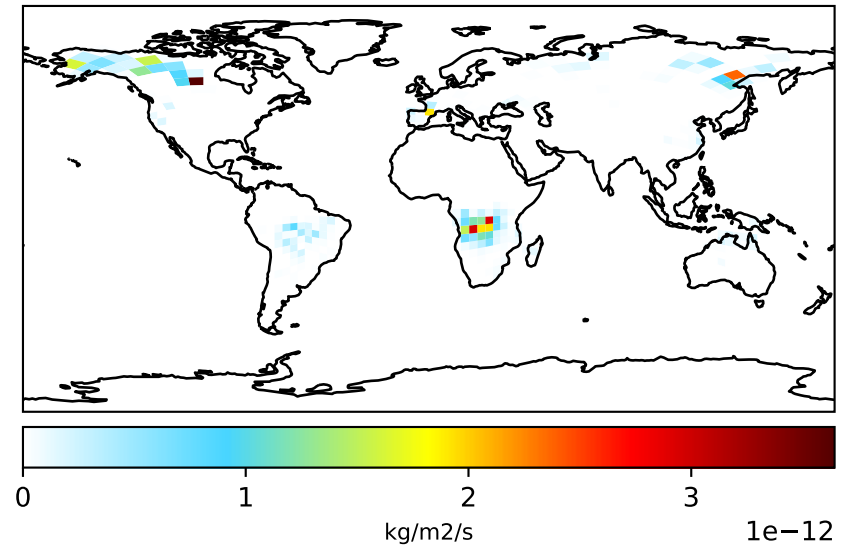Difference
Dev - Ref, Restricted Range [5%,95%]

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
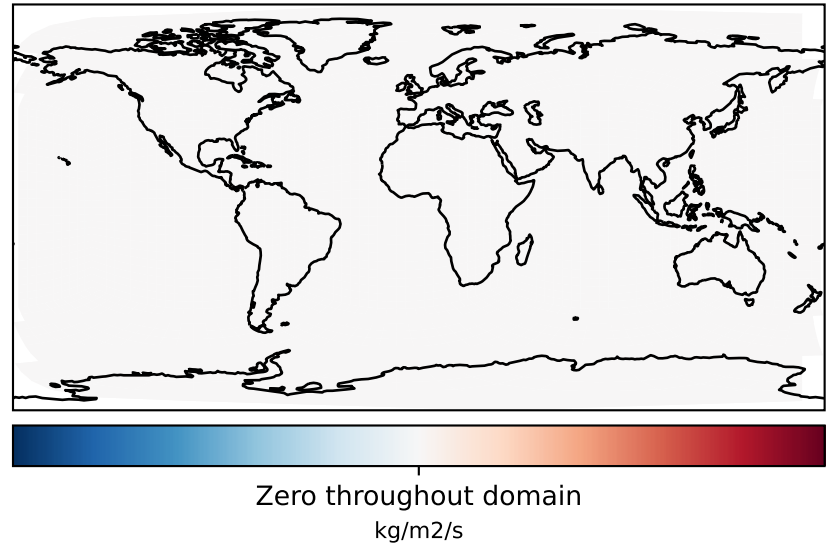unitless
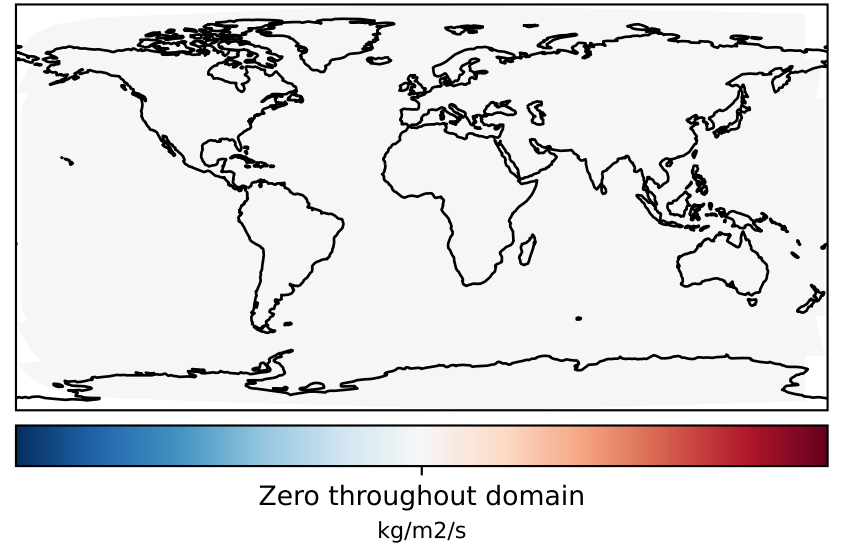
EmisEOH_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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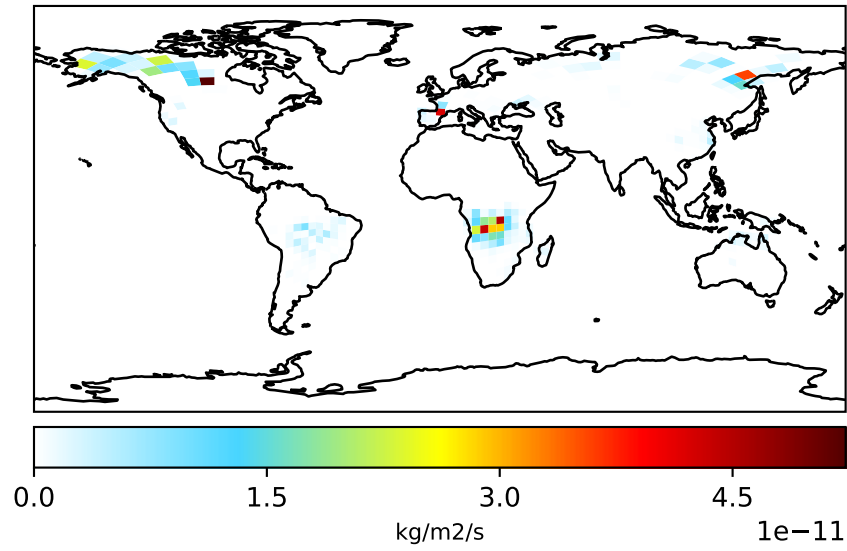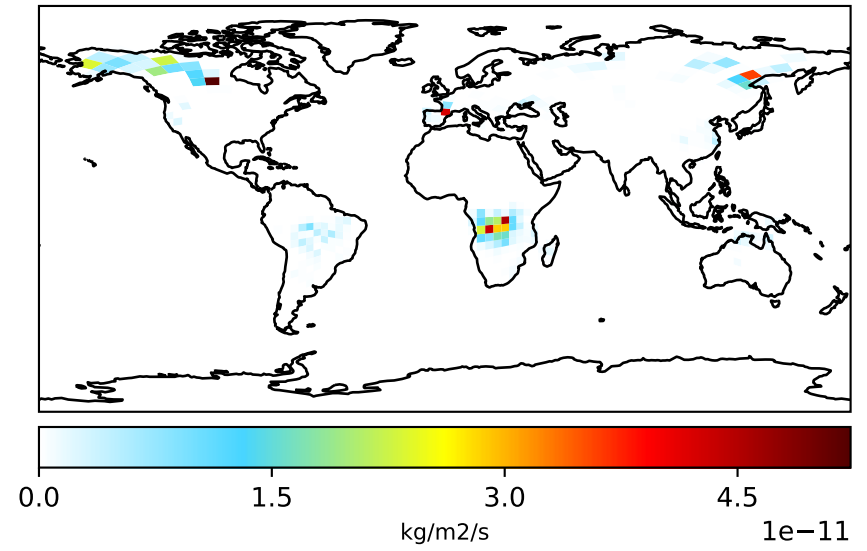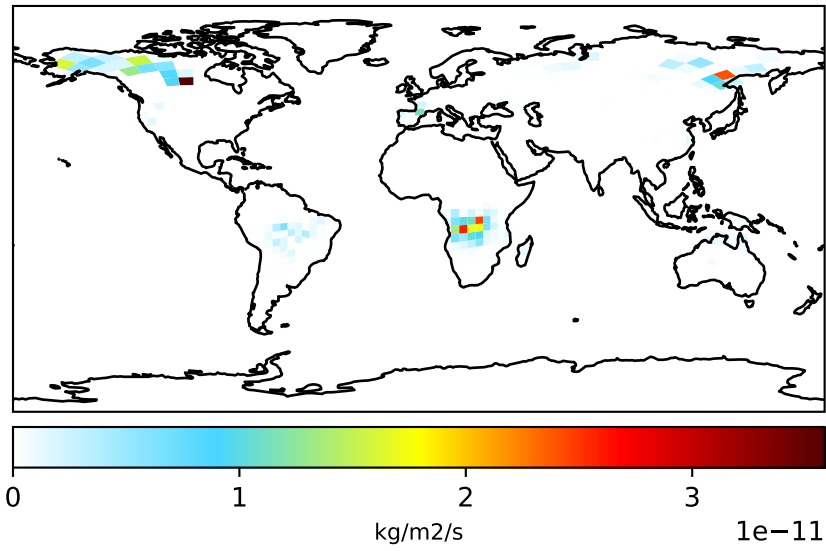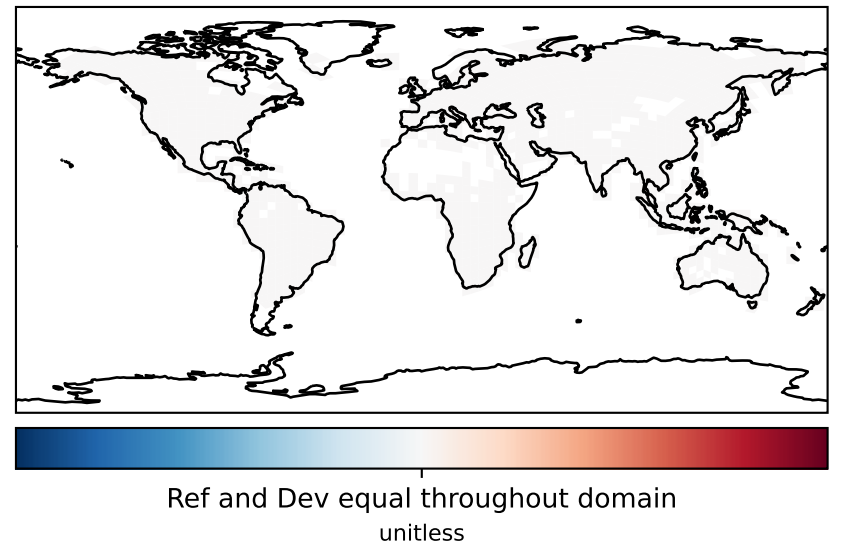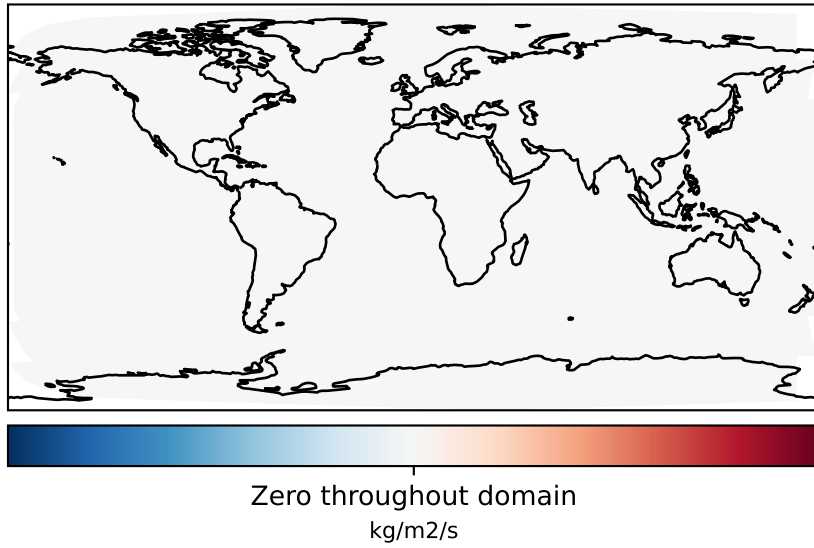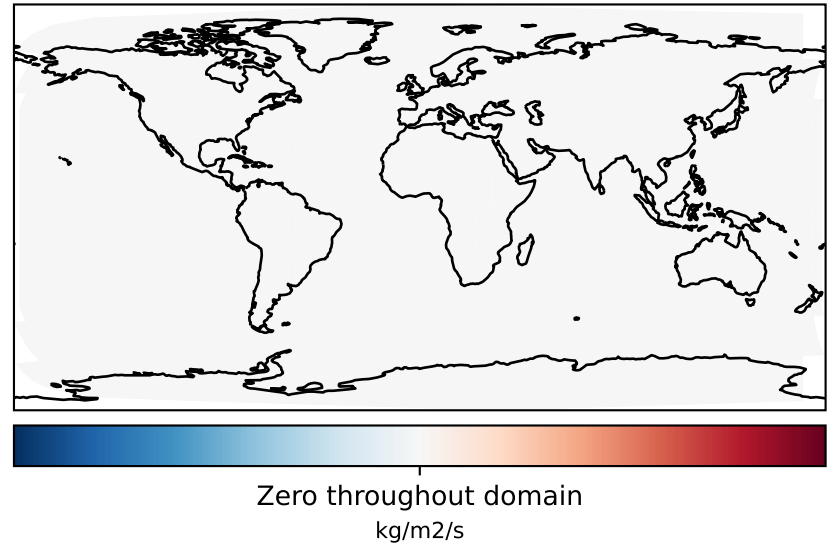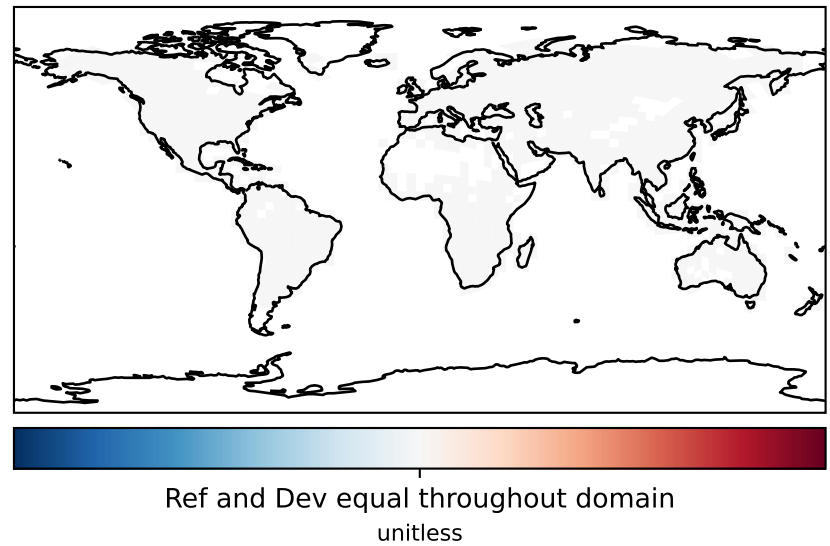Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

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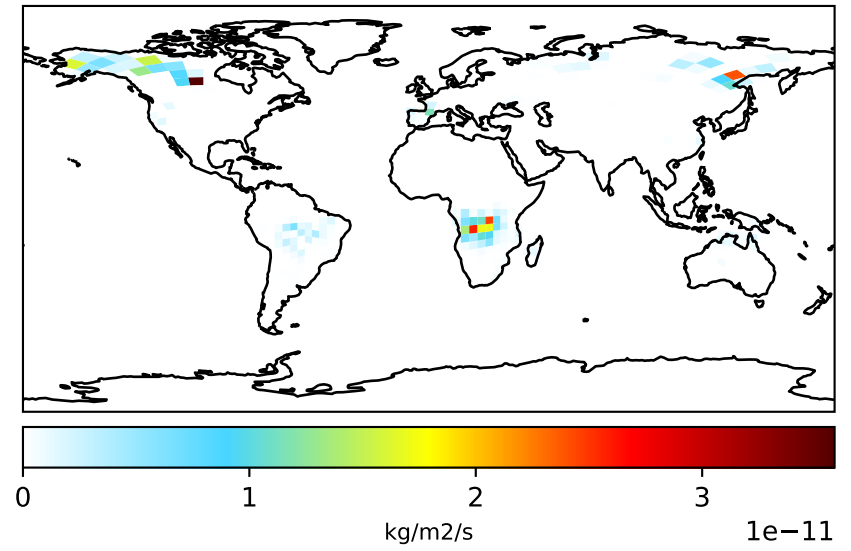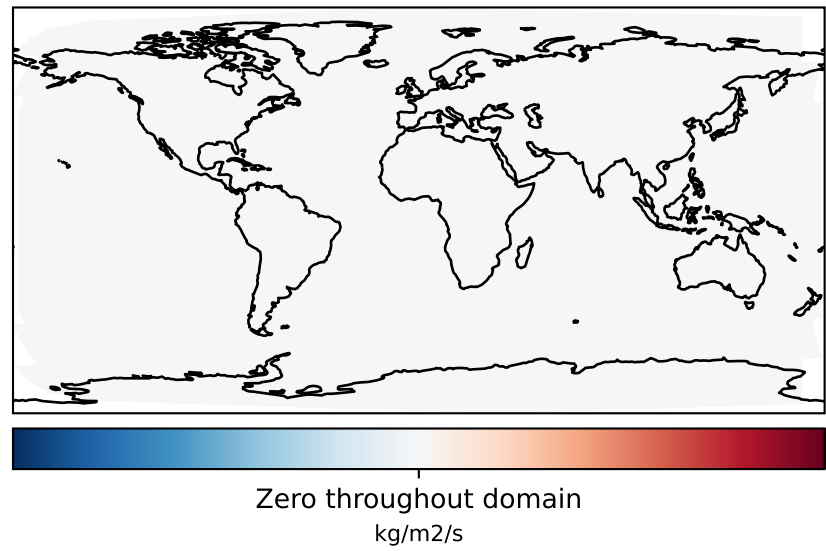
Ref and Dev equal throughout domain
unitless

EmisFURA_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

0.0   1.5   3.0   4.5
1e-11

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_BioBurn

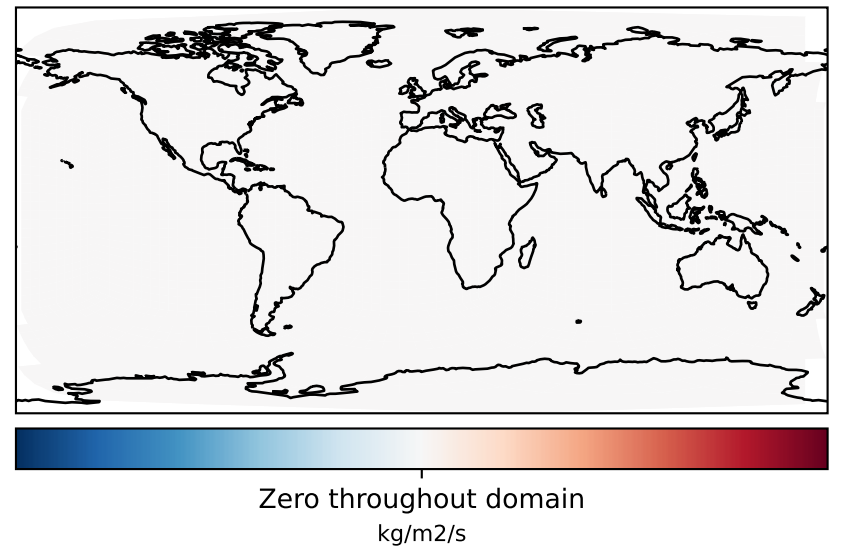# EmisISOP_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
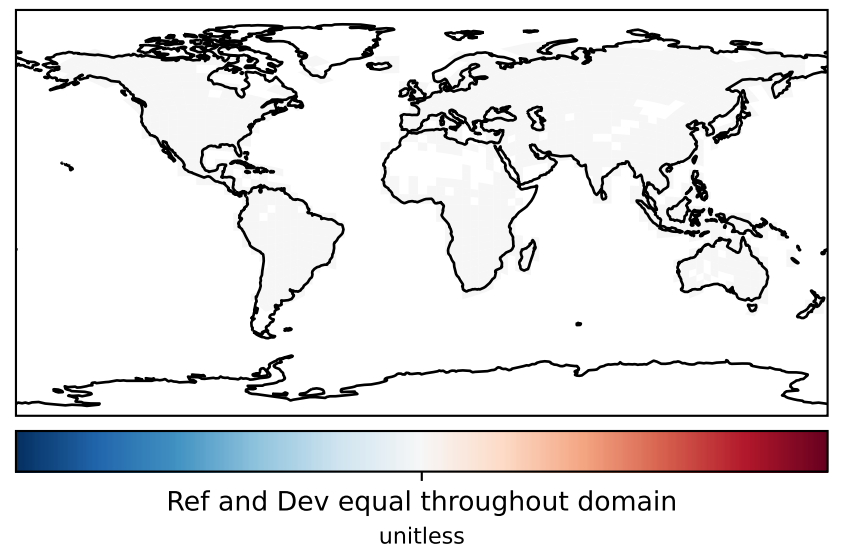c24

kg/m2/s

kg/m2/s

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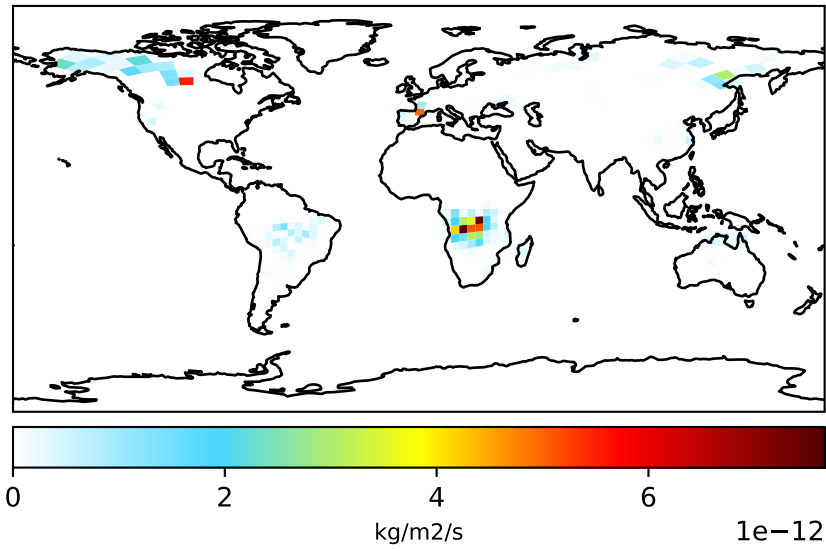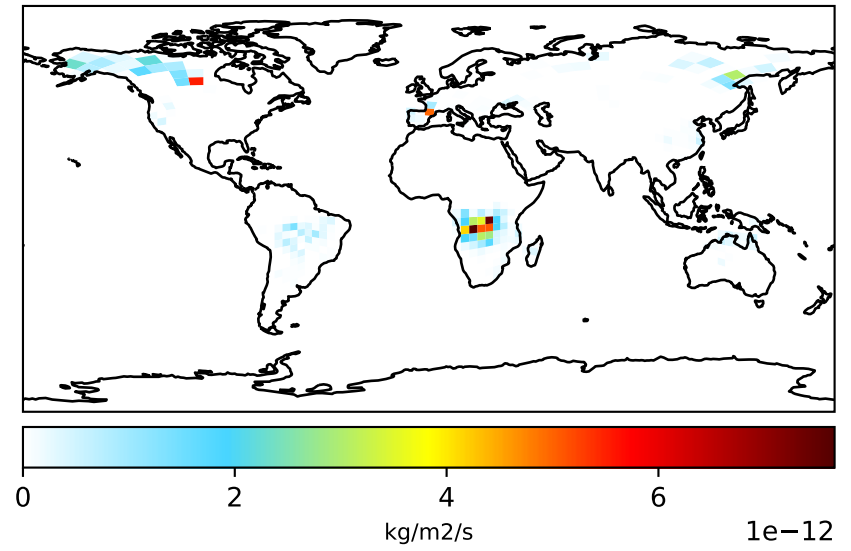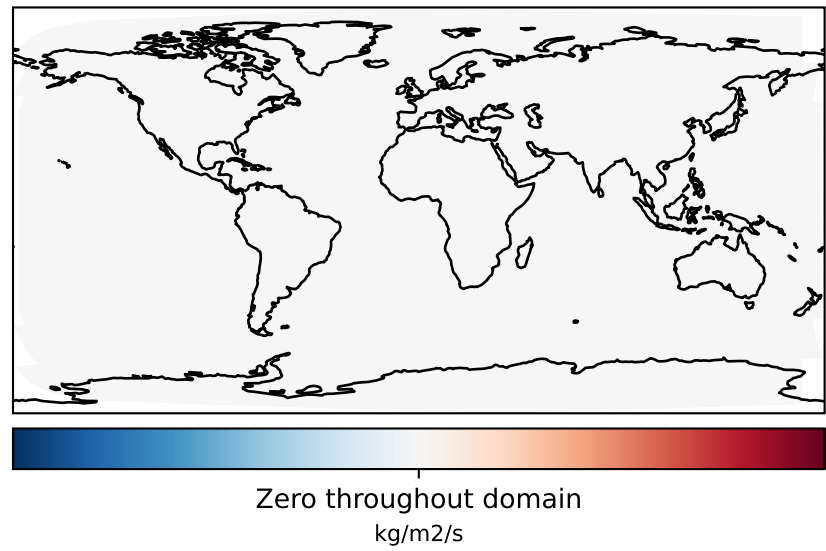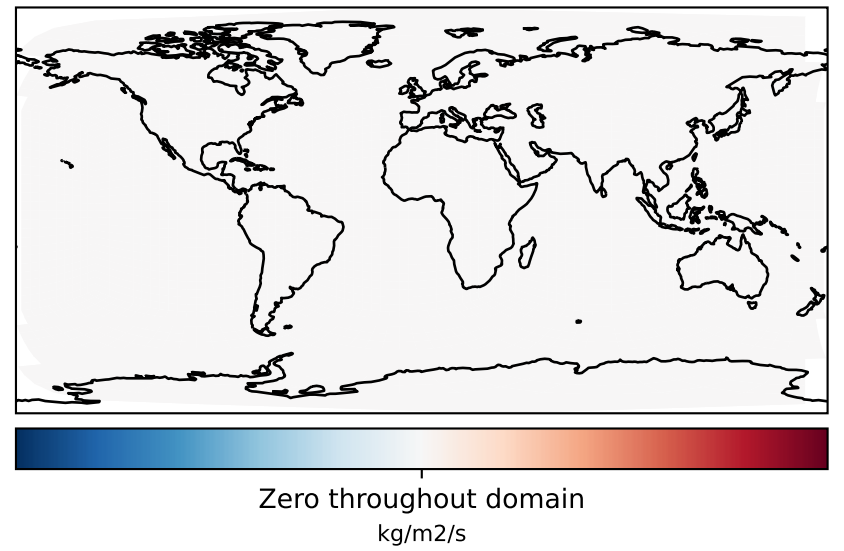
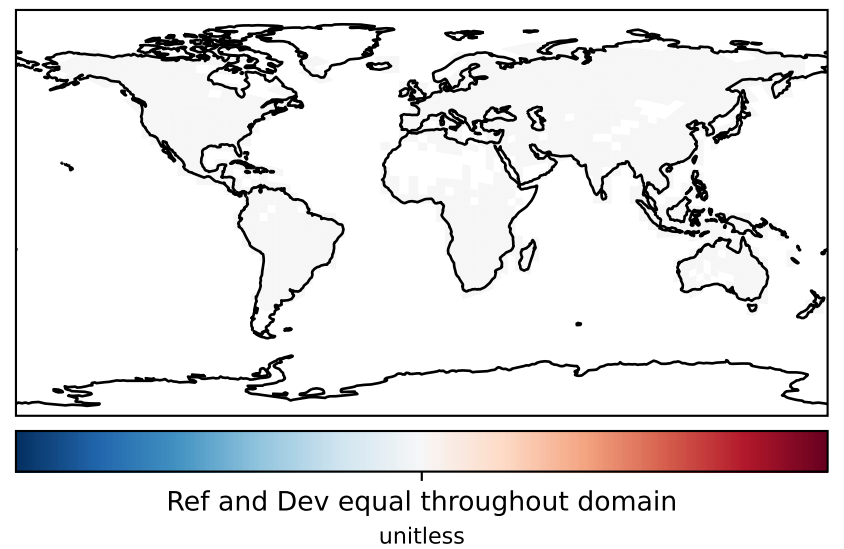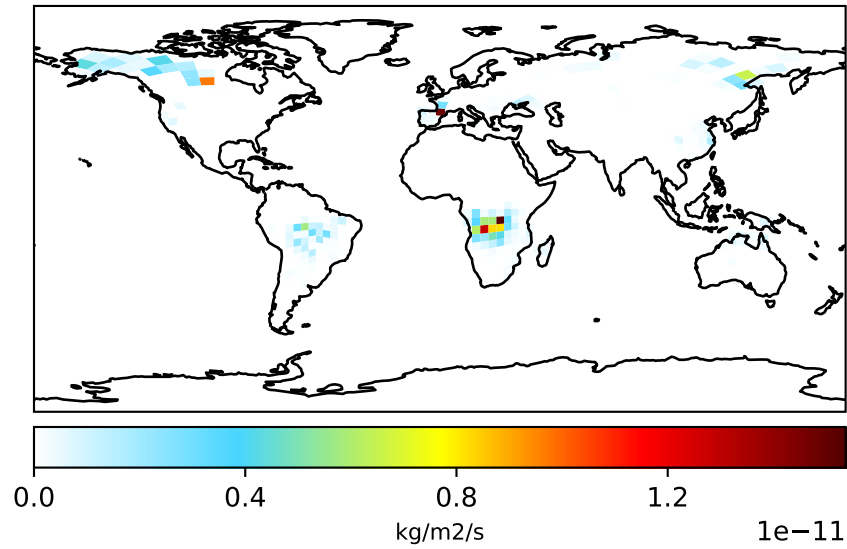Difference
Dev - Ref, Restricted Range [5%,95%]

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
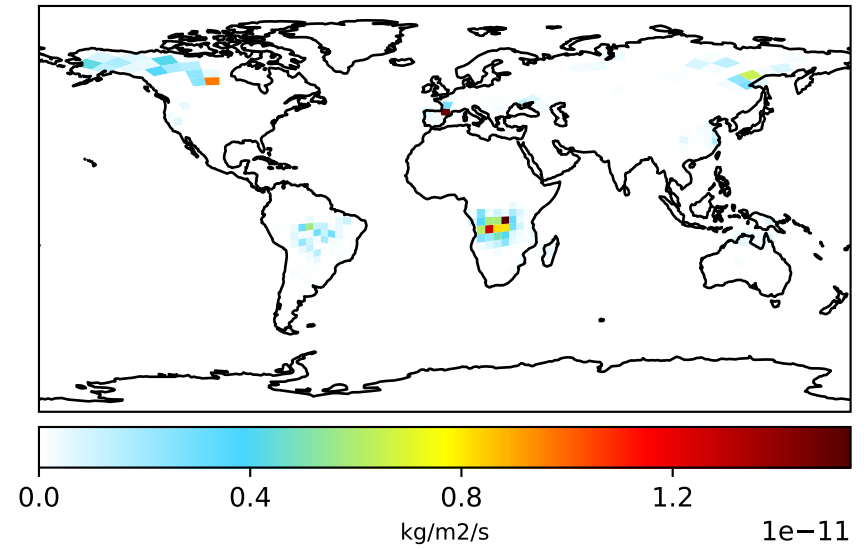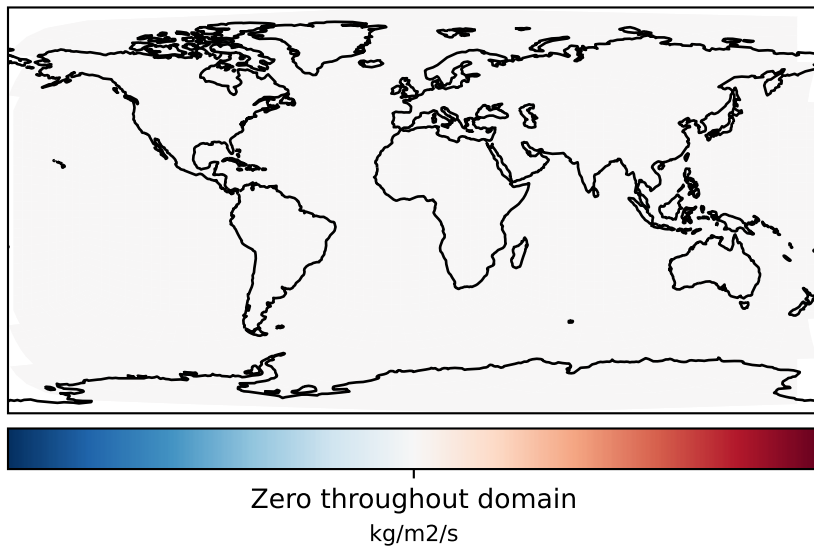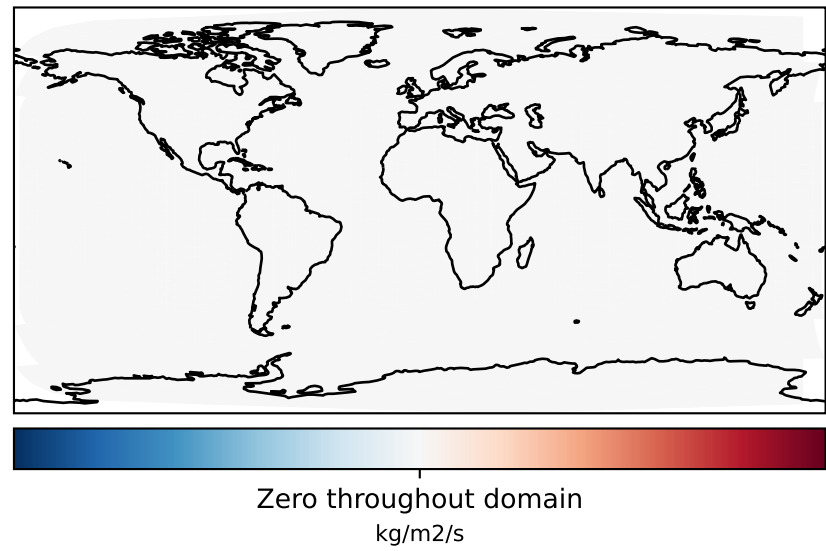
Ref and Dev equal throughout domain
unitless

EmisMEK_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

1e−11

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

EmisMGLY_BioBurn

EmisMOH_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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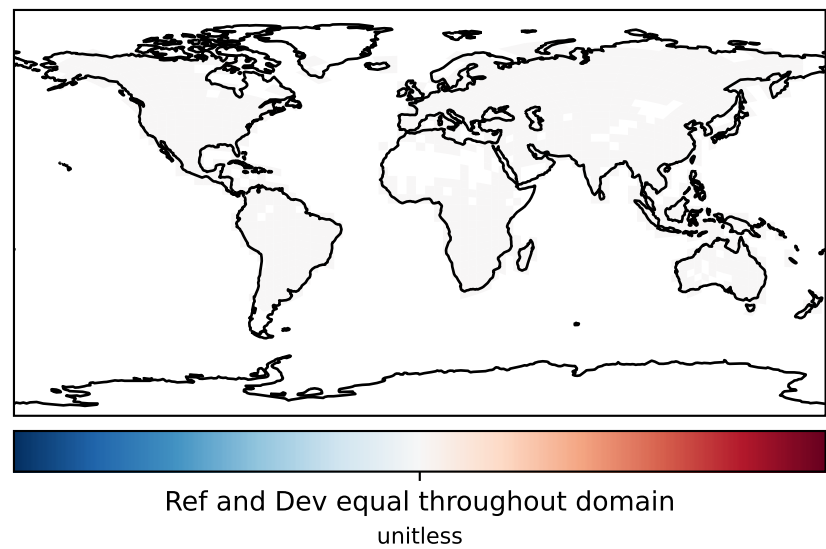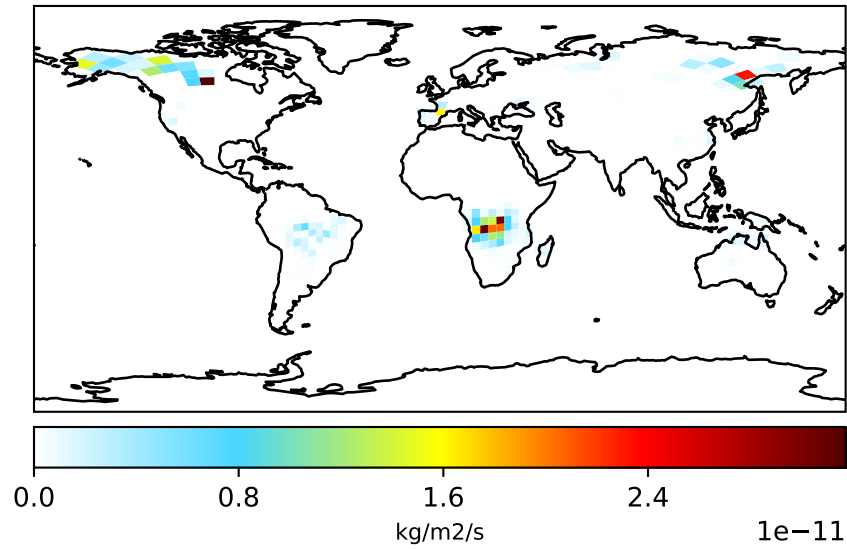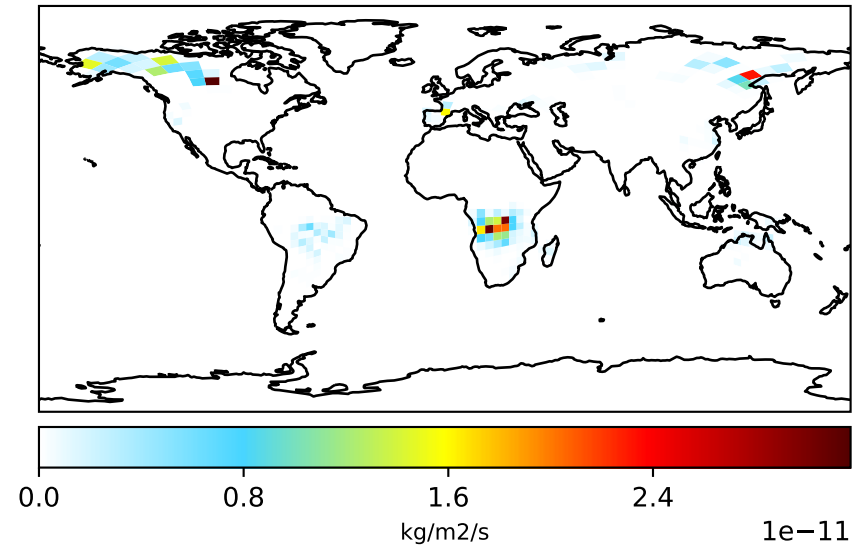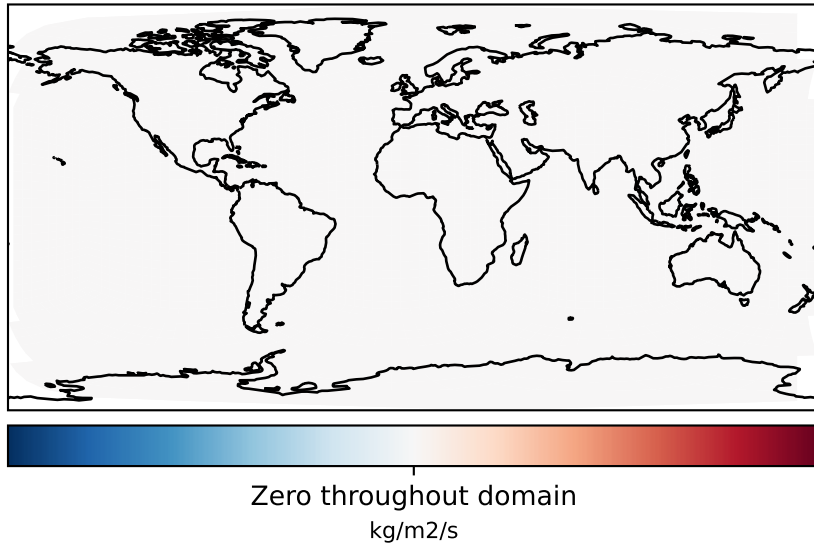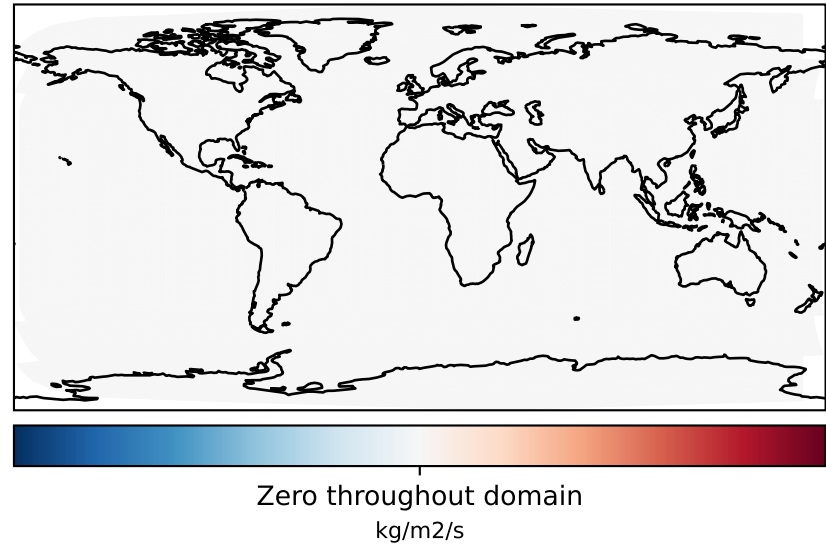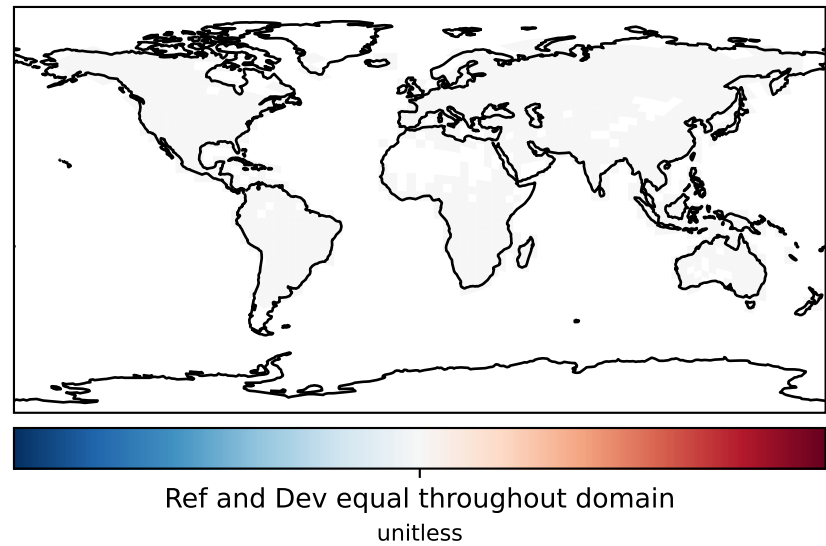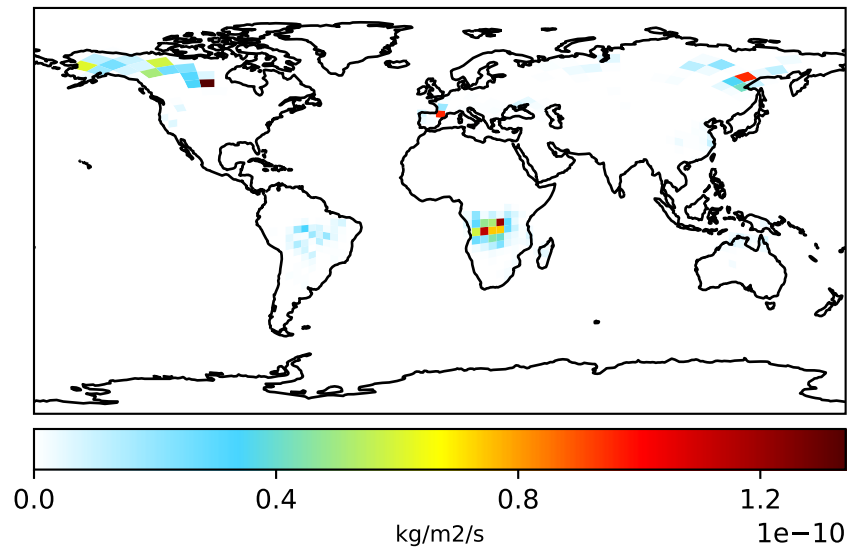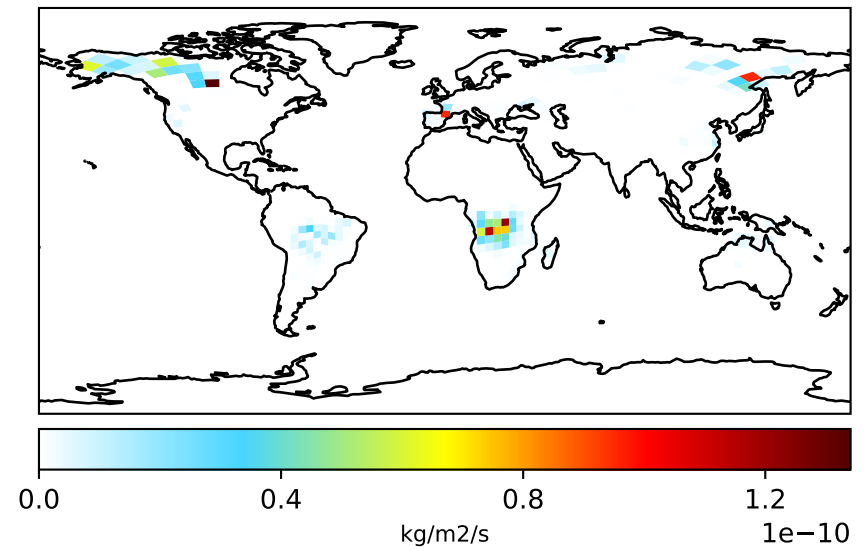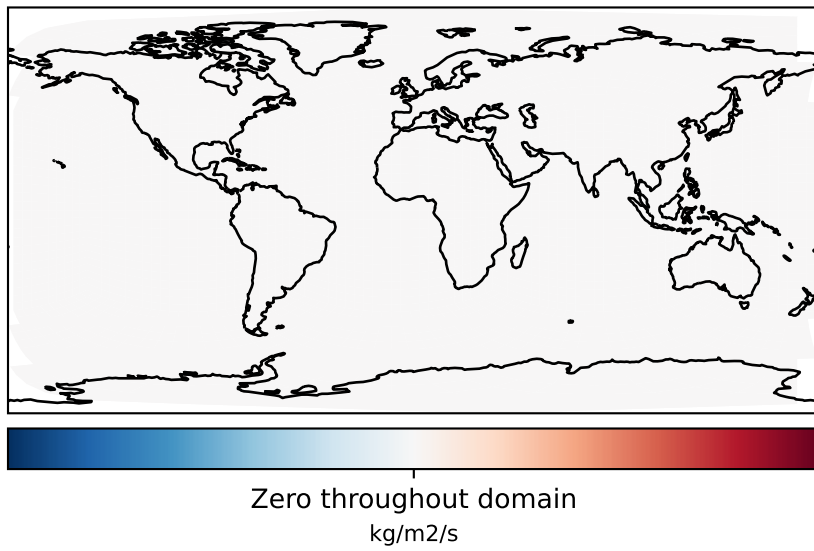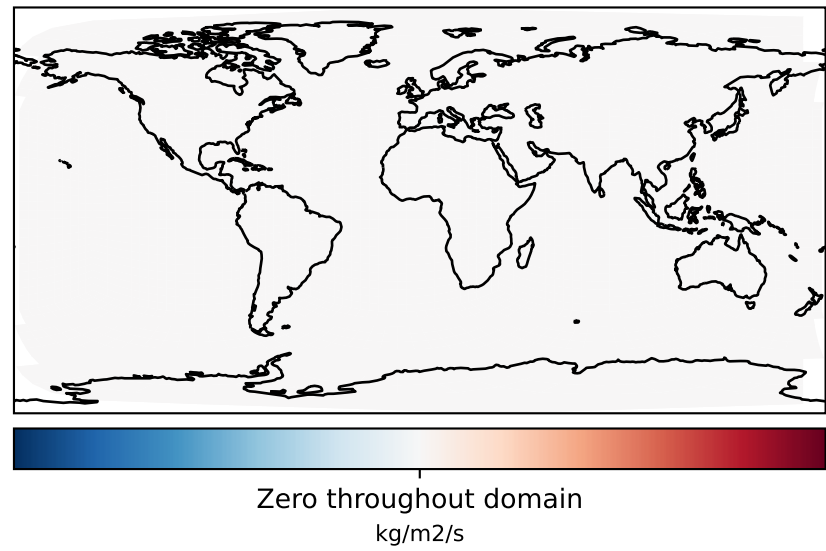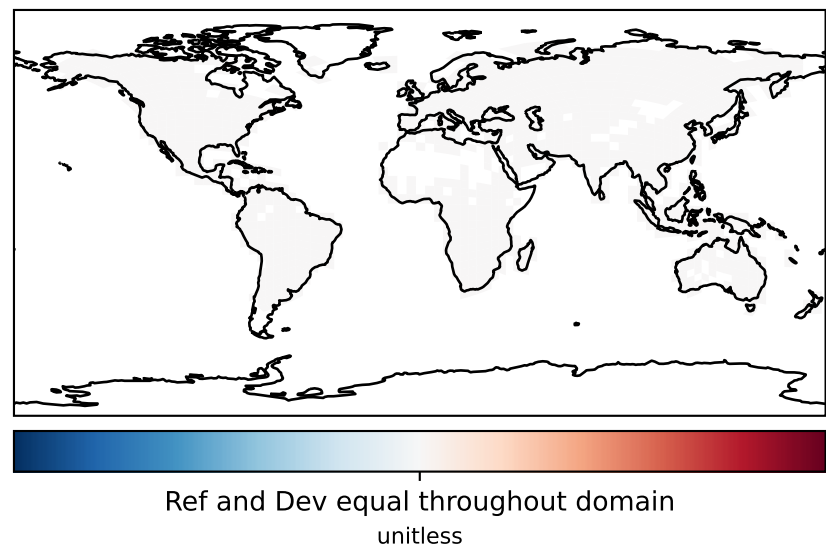Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisMTPA_BioBurn

EmisMVK_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

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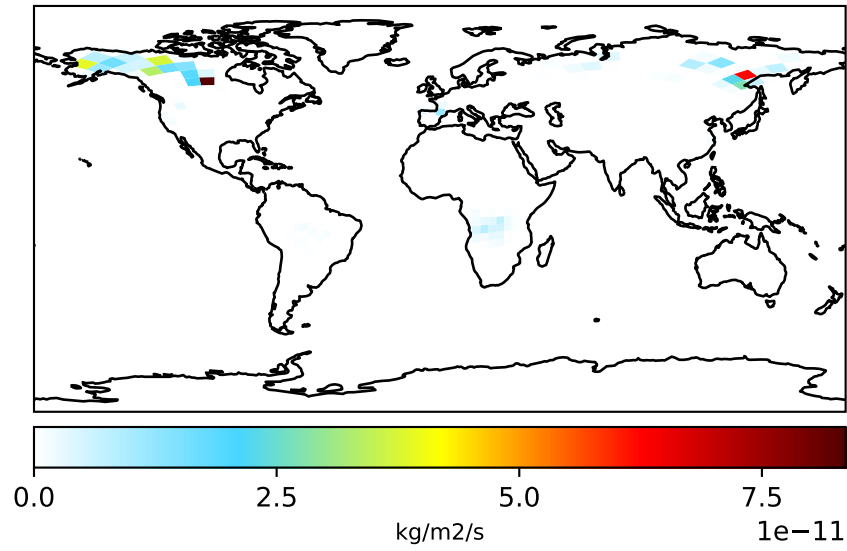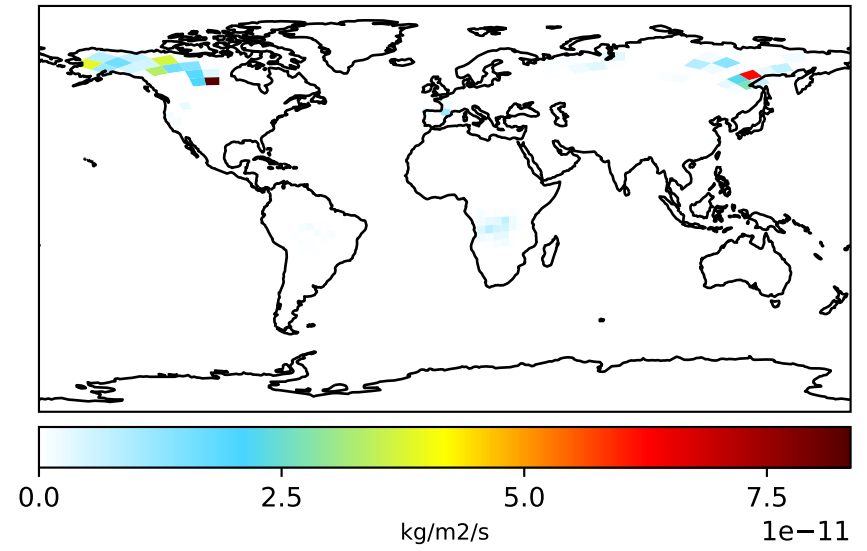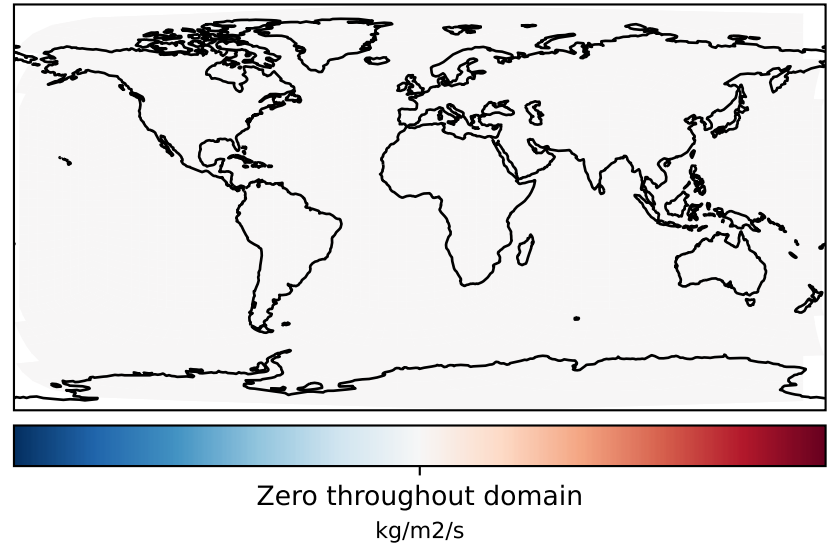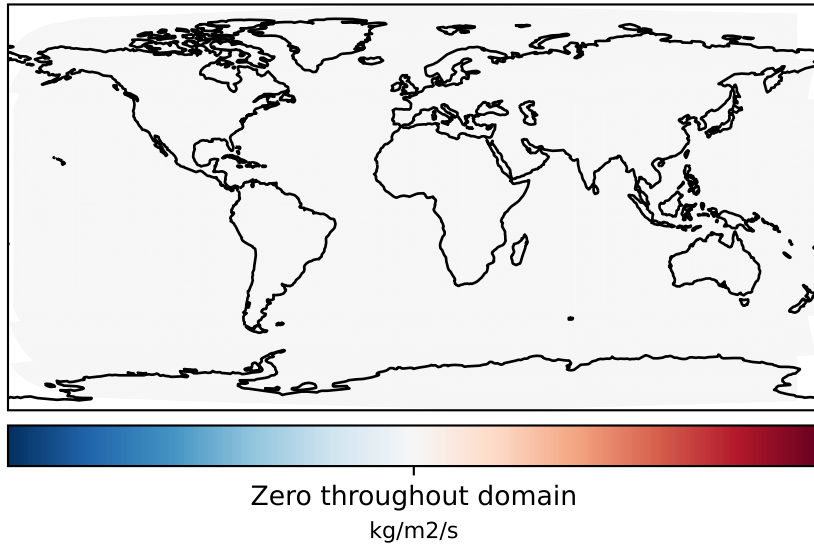
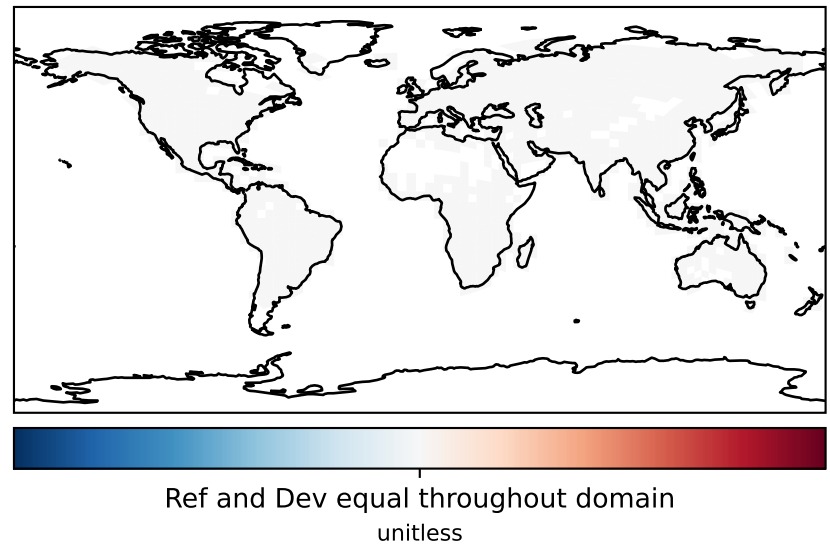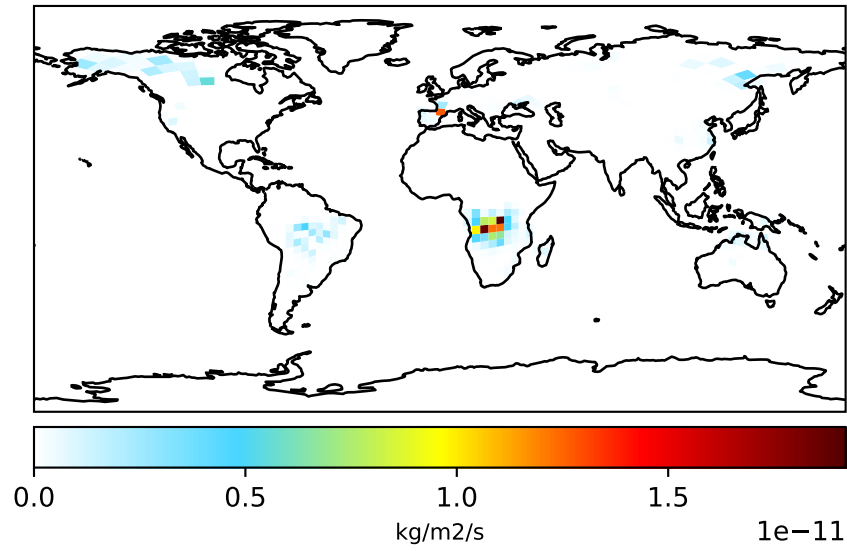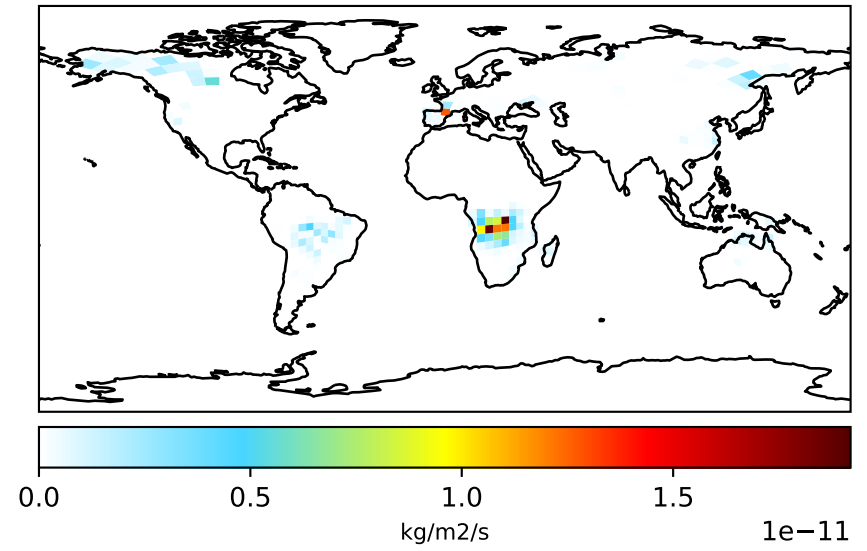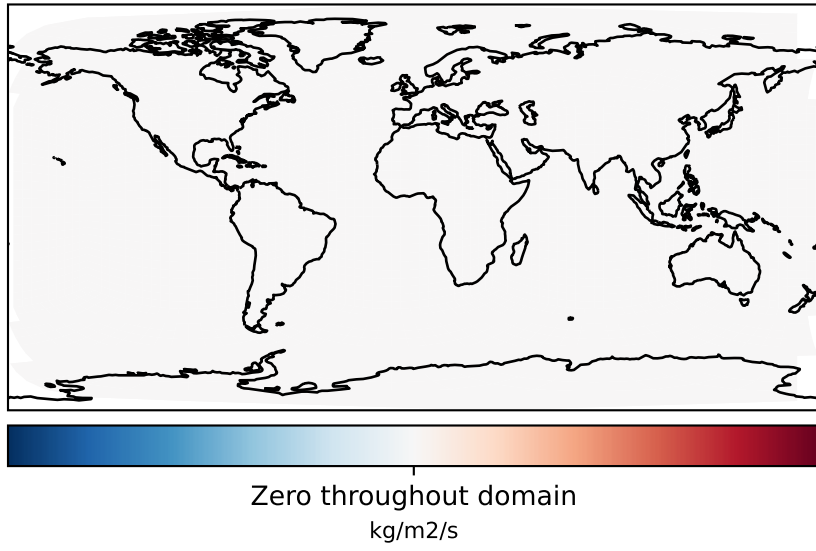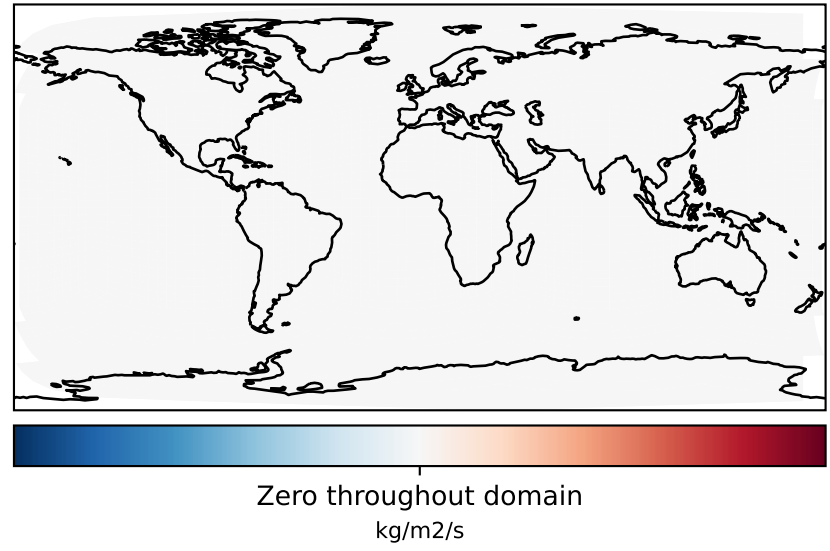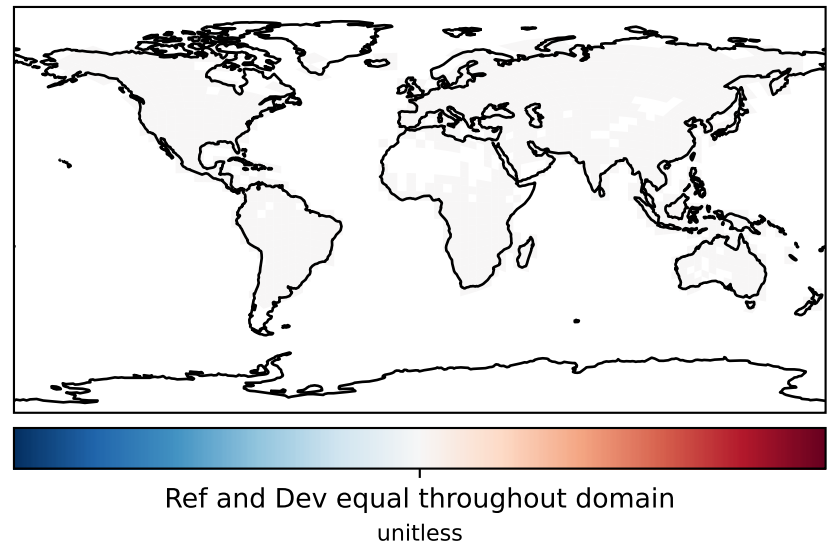Difference
Dev - Ref, Restricted Range [5%,95%]

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
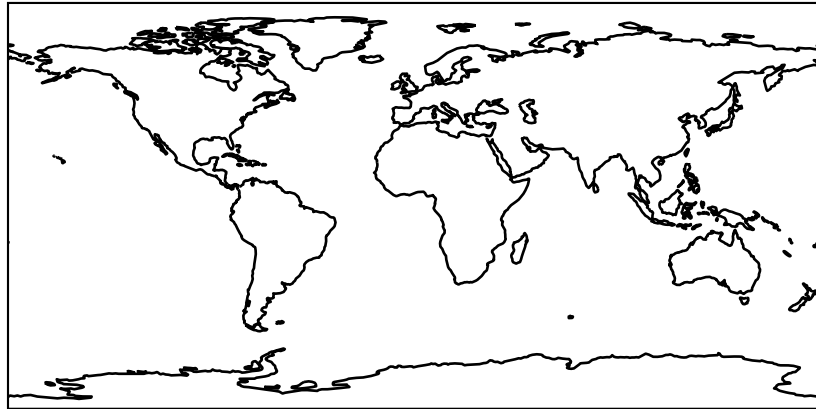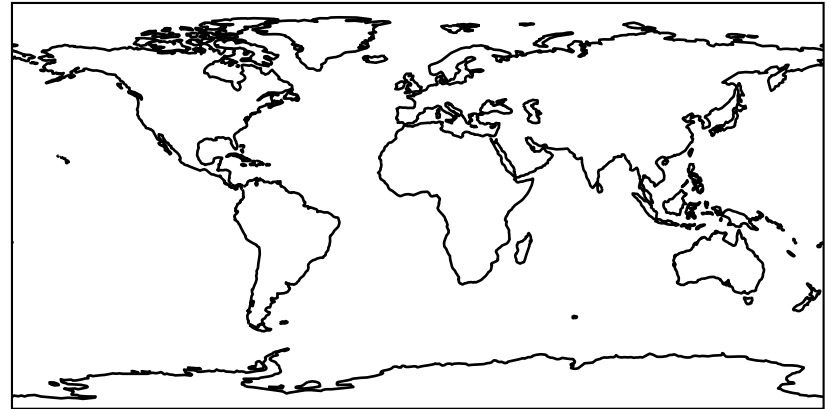unitless

EmisNAP_BioBurn

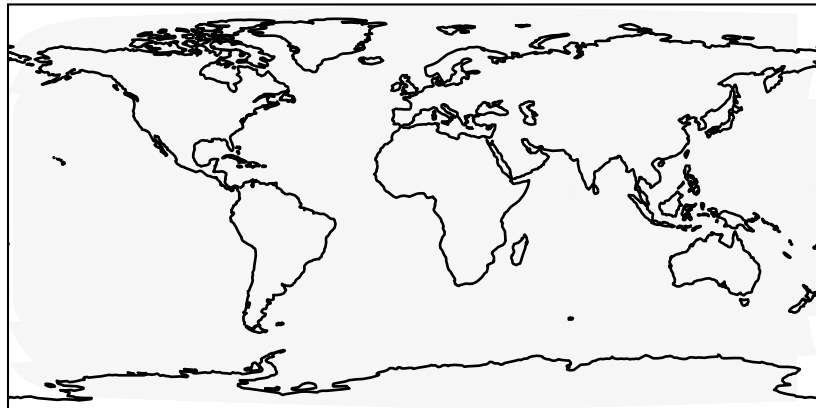Processed GEOS-FP input, 3-hr winds (Ref)
c24

Zero throughout domain
kg/m2/s

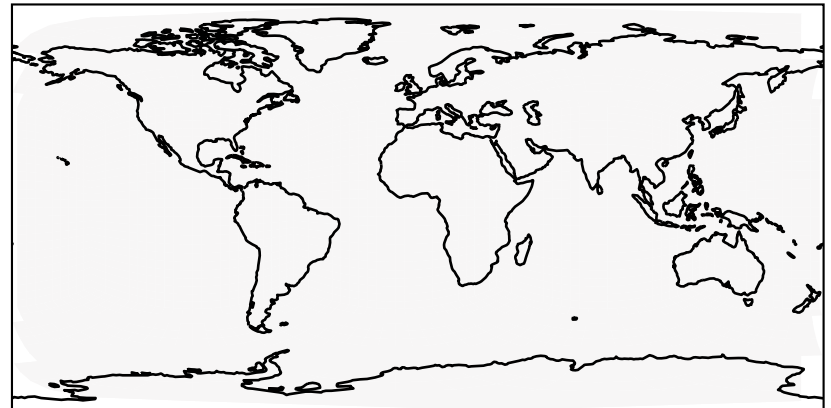Raw GEOS-FP input, 3-hr winds (Dev)
c24

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
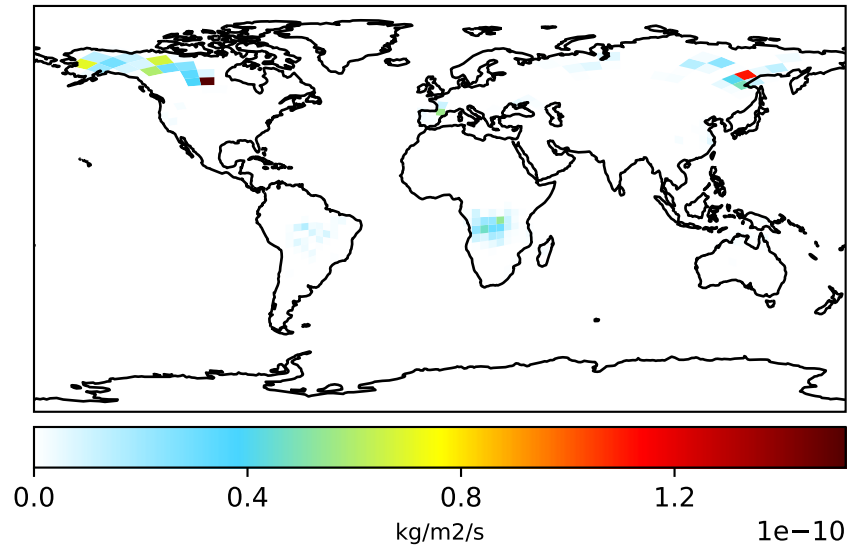
Undefined throughout domain
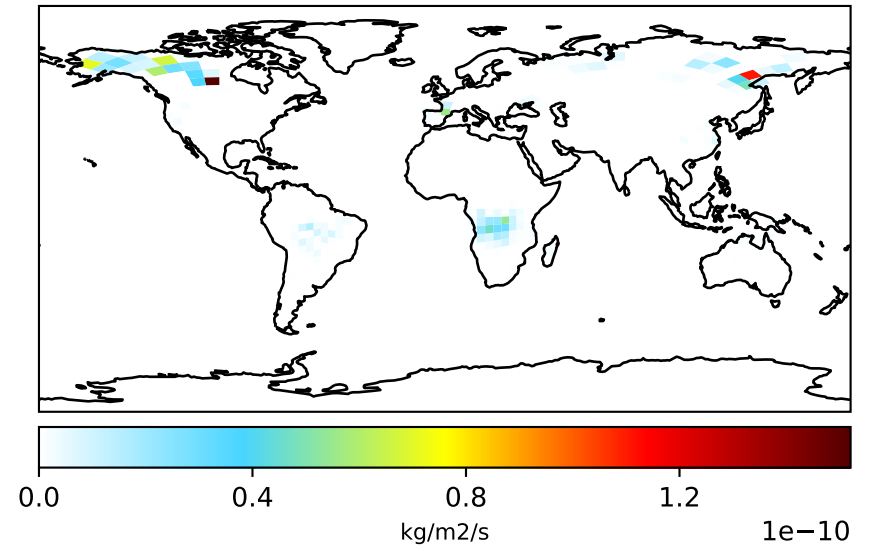unitless

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain
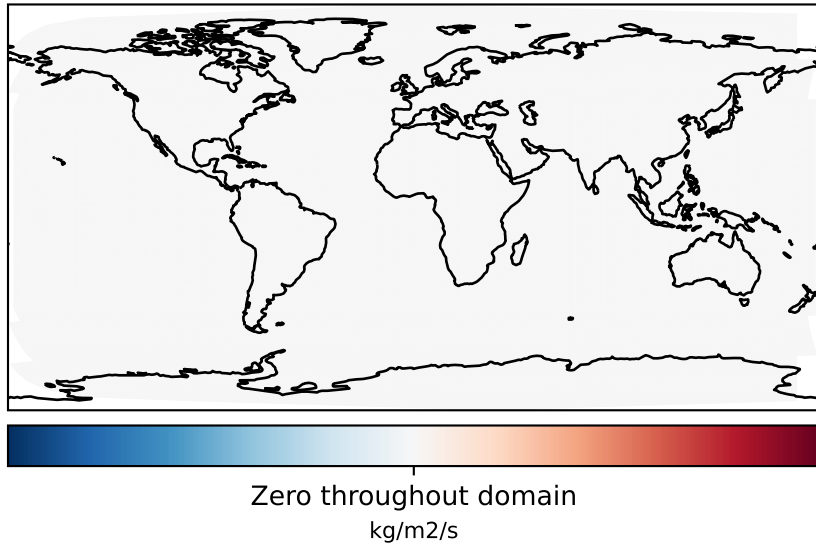unitless

EmisNH3_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

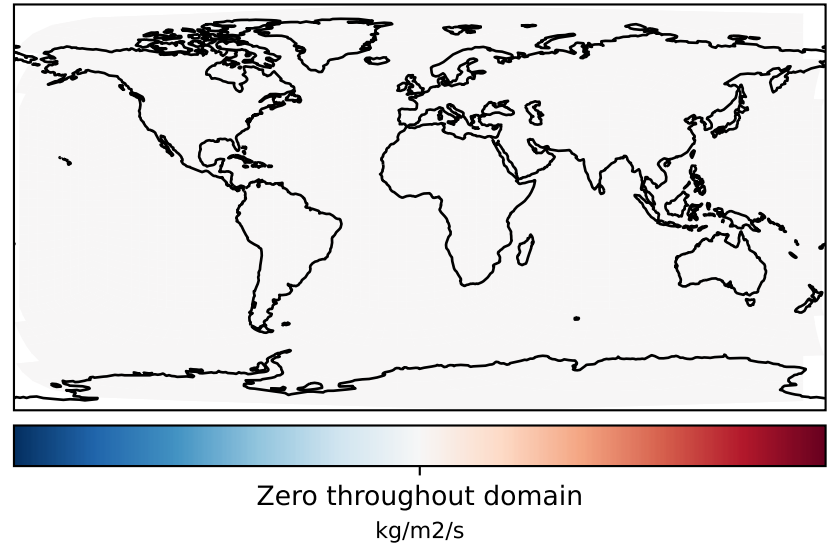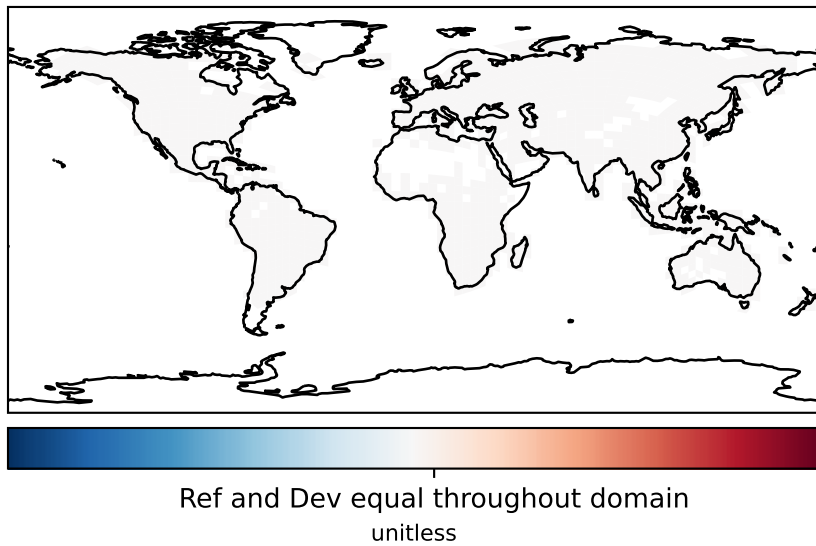Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

1e−10

1e−10

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

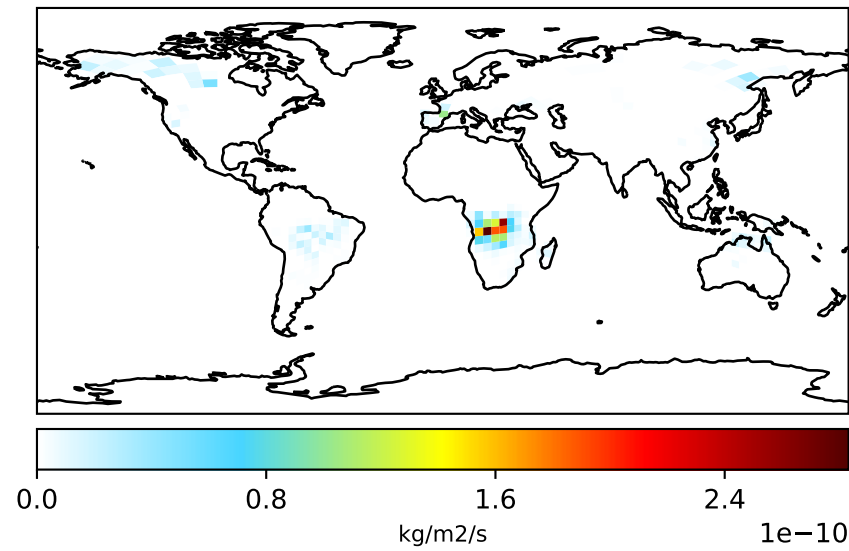Ref and Dev equal throughout domain
unitless

EmisNO_BioBurn

| Processed GEOS-FP input, 3-hr winds (Ref) c24 | Raw GEOS-FP input, 3-hr winds (Dev) c24 |

0.0   0.8   1.6   2.4
kg/m2/s   1e−10

0.0   0.8   1.6   2.4
kg/m2/s   1e−10

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

EmisOCPI_BioBurn

EmisOCPO_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

0.0   0.8   1.6   2.4
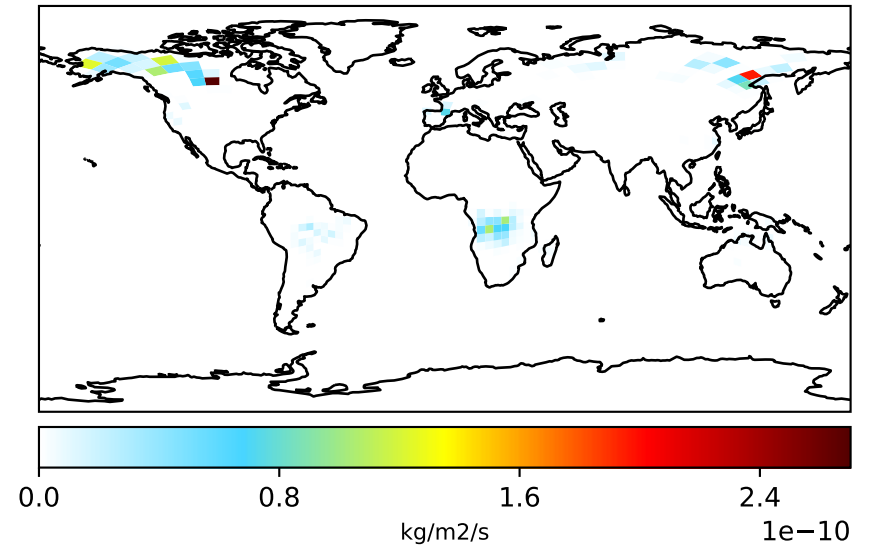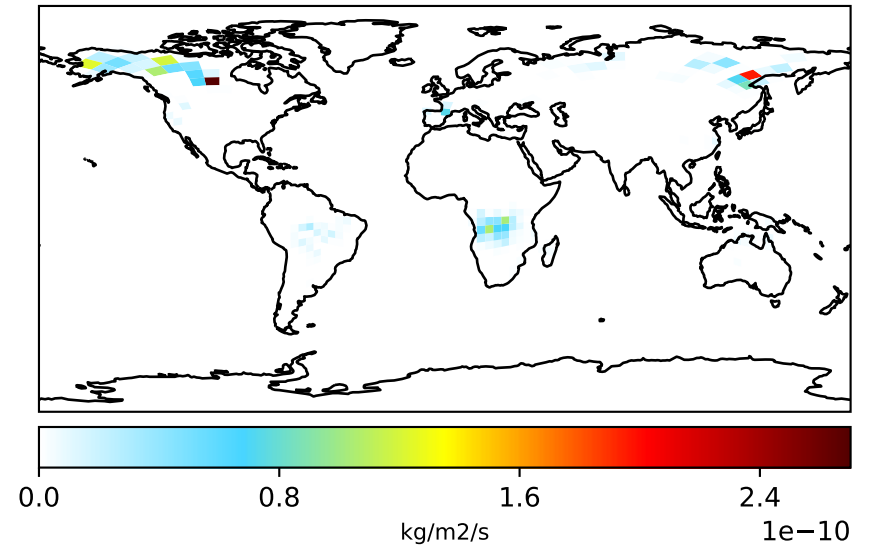1e−10

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

EmisPHEN_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

1e−11

Difference
Dev - Ref, Dynamic Range

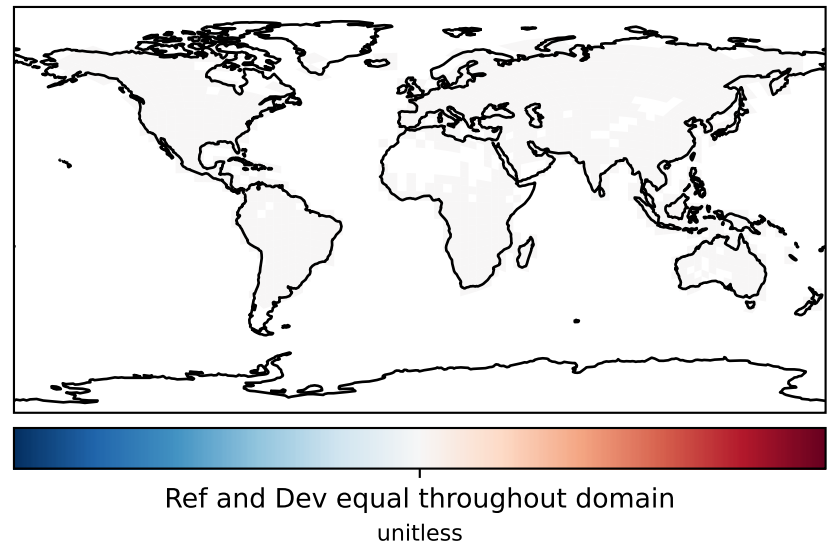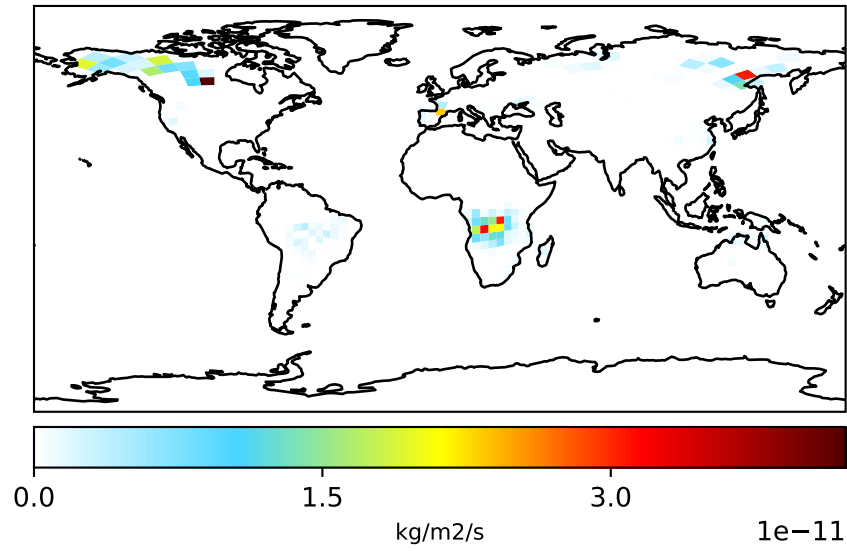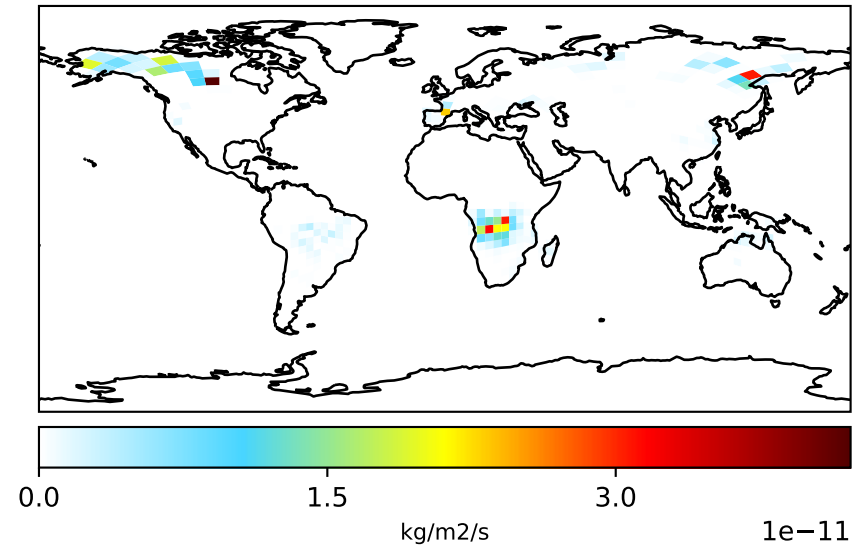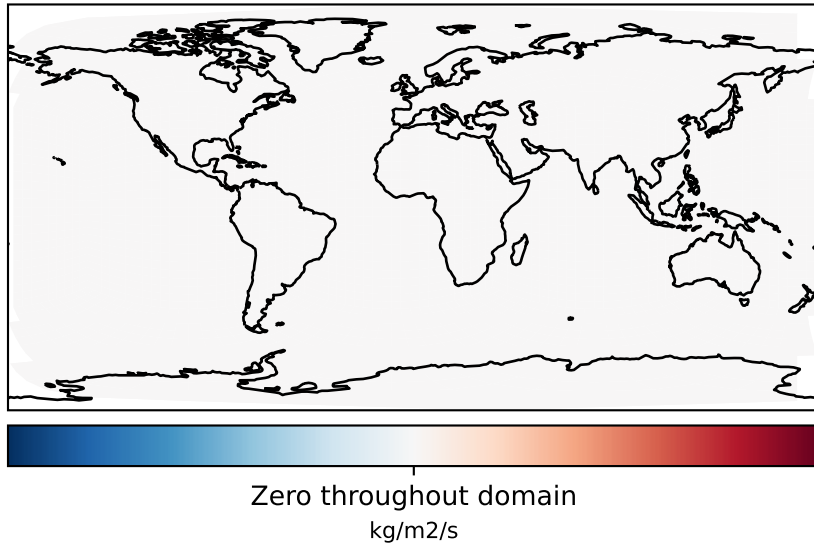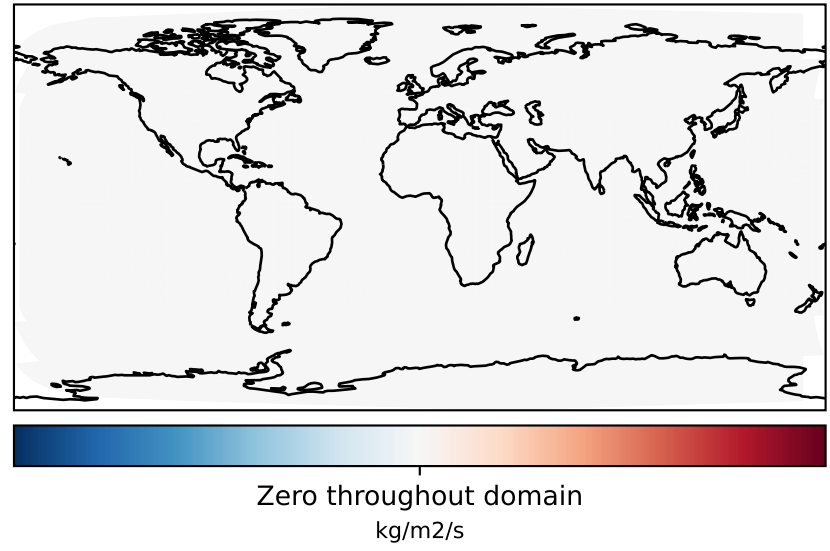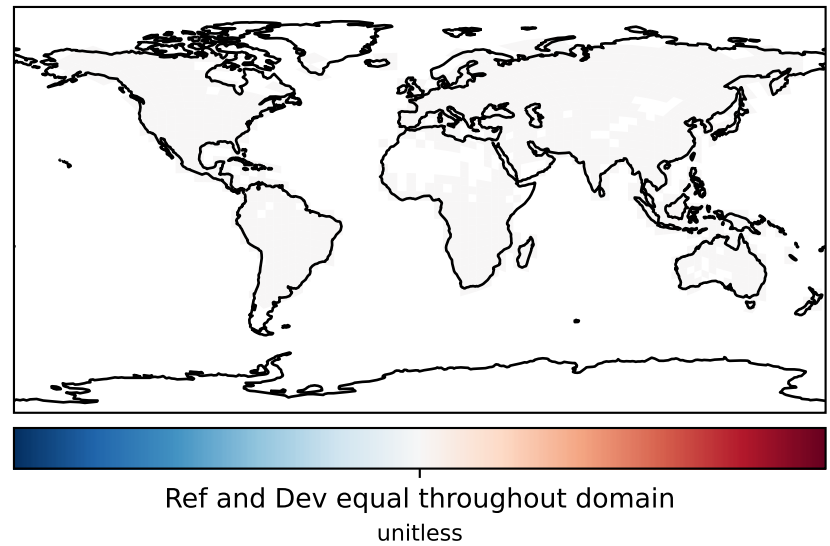Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

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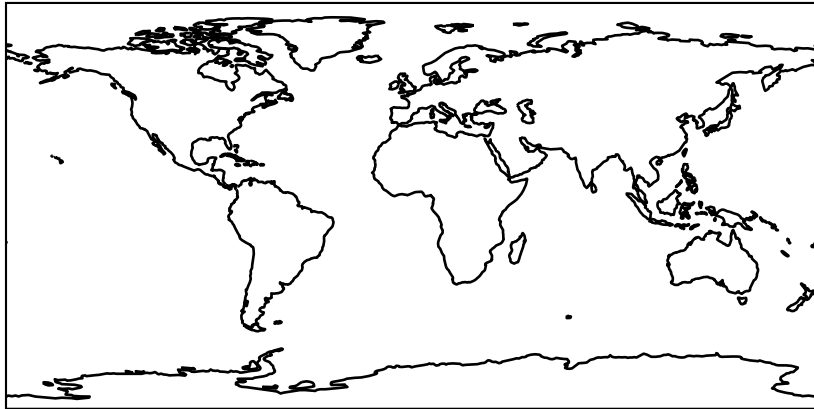
Ref and Dev equal throughout domain
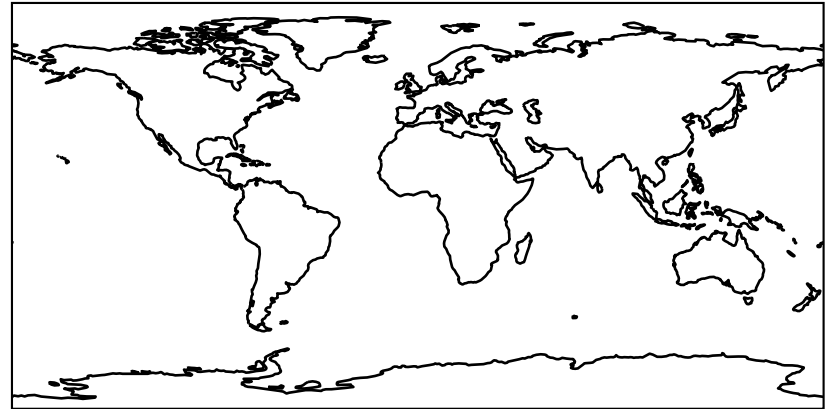unitless

EmisPOG1_BioBurn

EmisPOG2_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
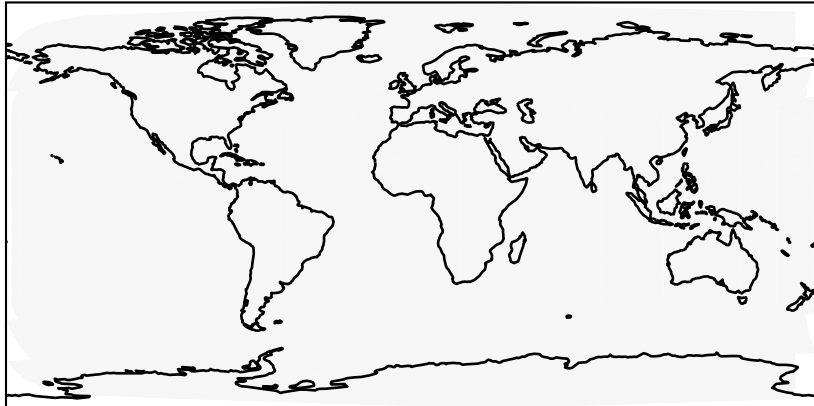### c24

Zero throughout domain

kg/m2/s
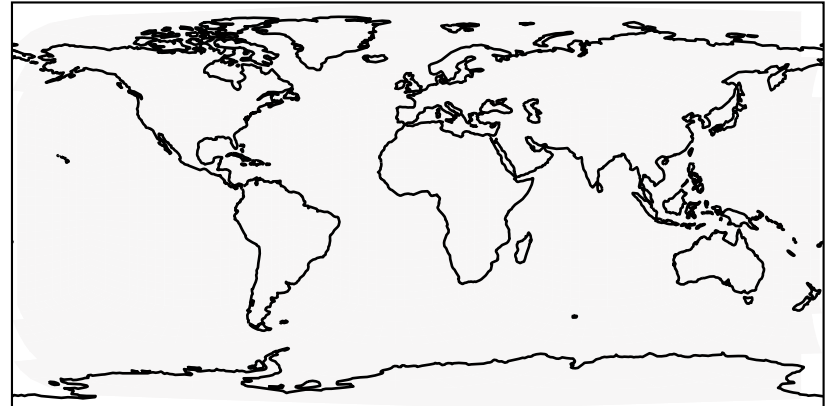
Raw GEOS-FP input, 3-hr winds (Dev)
c24

Zero throughout domain

kg/m2/s

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
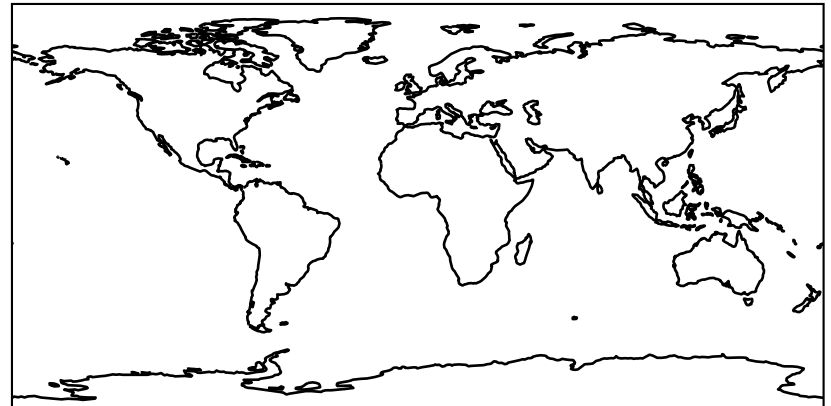
kg/m2/s

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

Zero throughout domain

kg/m2/s

Ratio
Dev/Ref, Dynamic Range
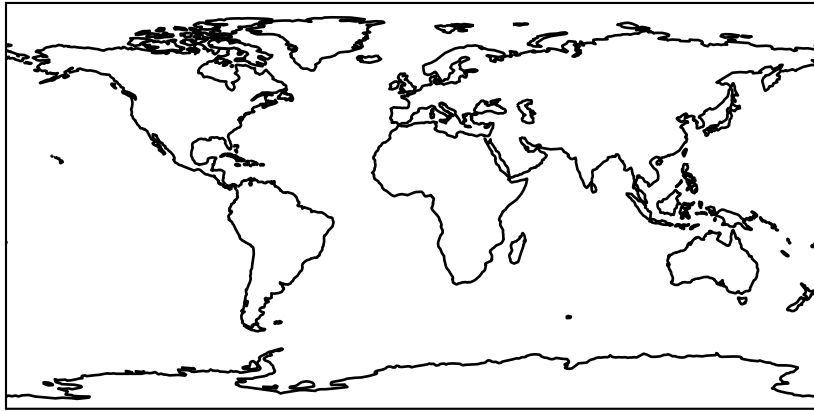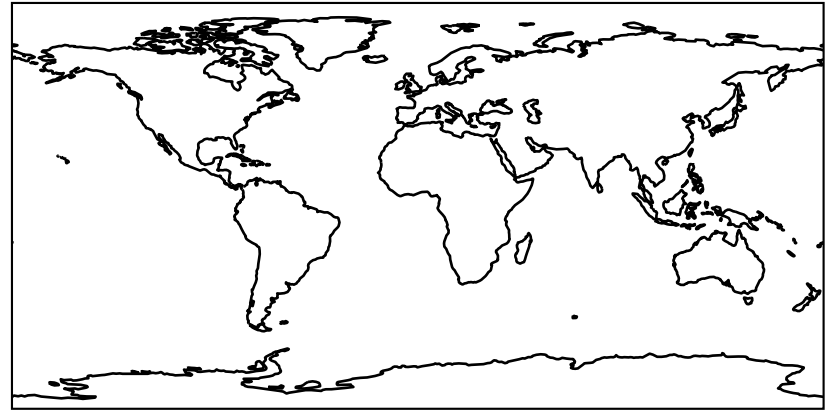
Undefined throughout domain

unitless

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain

unitless

EmisPRPE_BioBurn

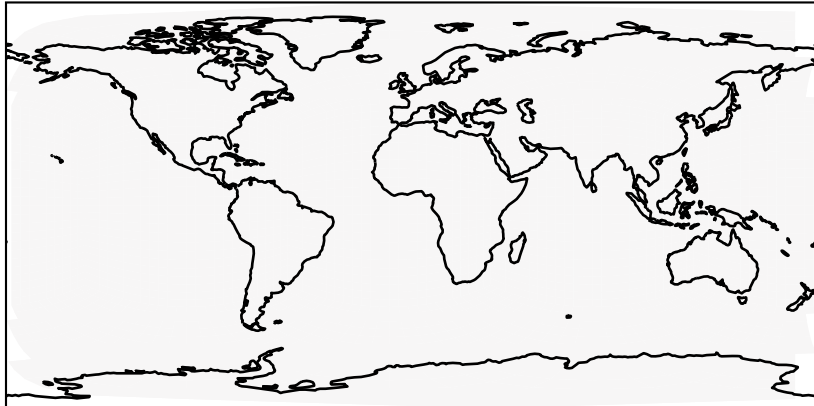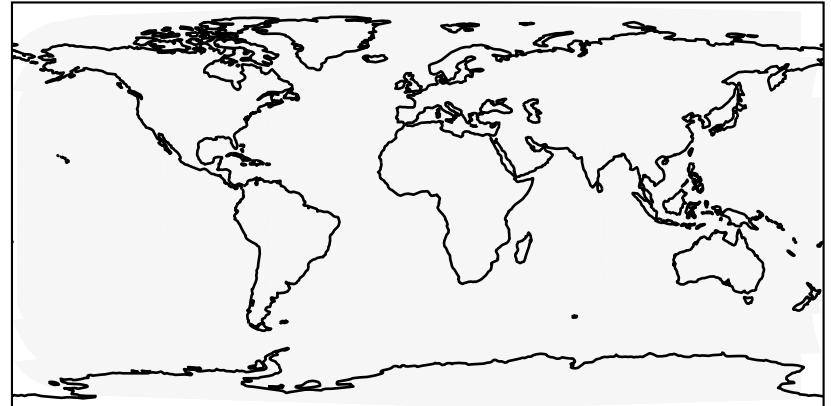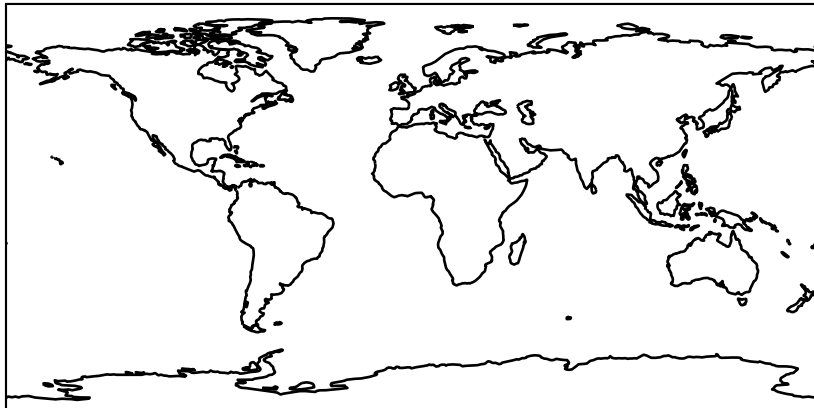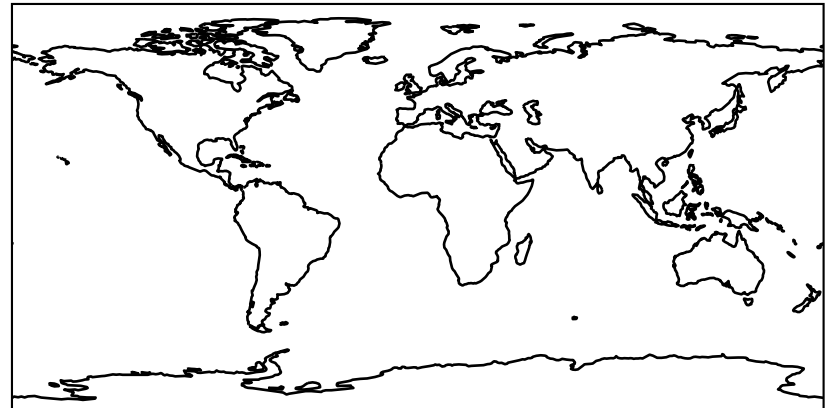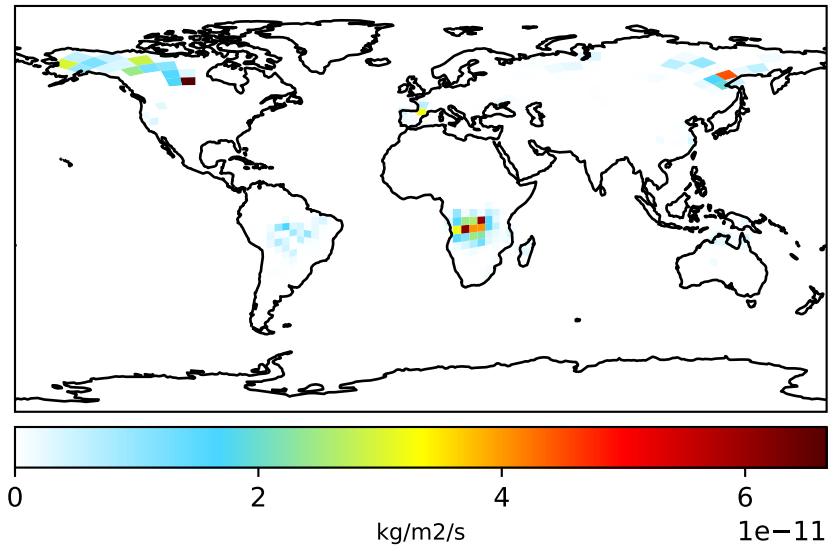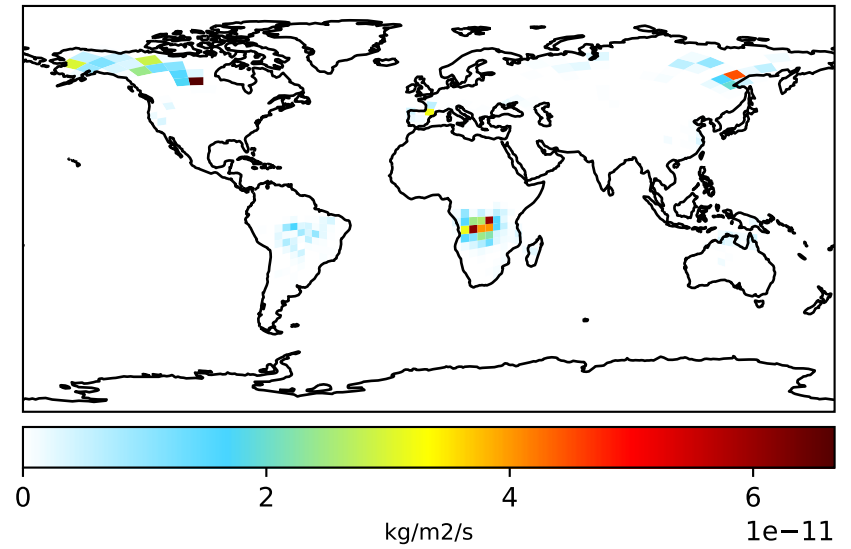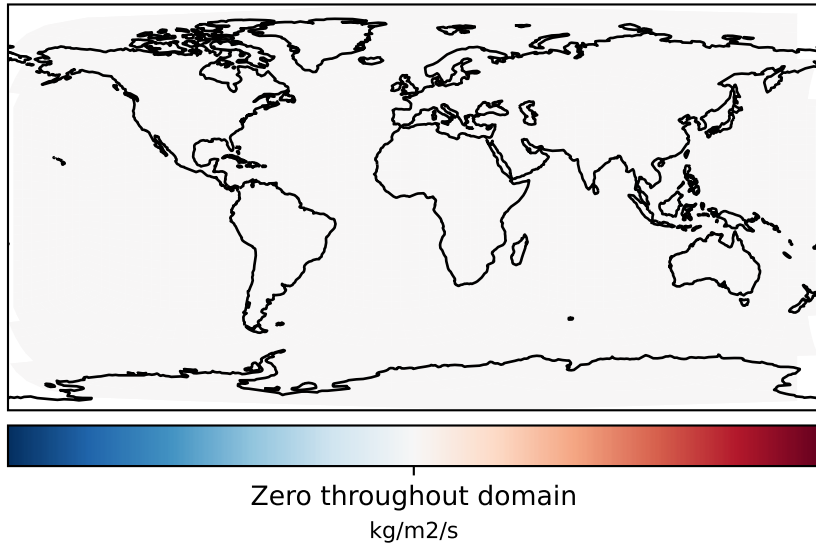Processed GEOS-FP input, 3-hr winds (Ref)
c24

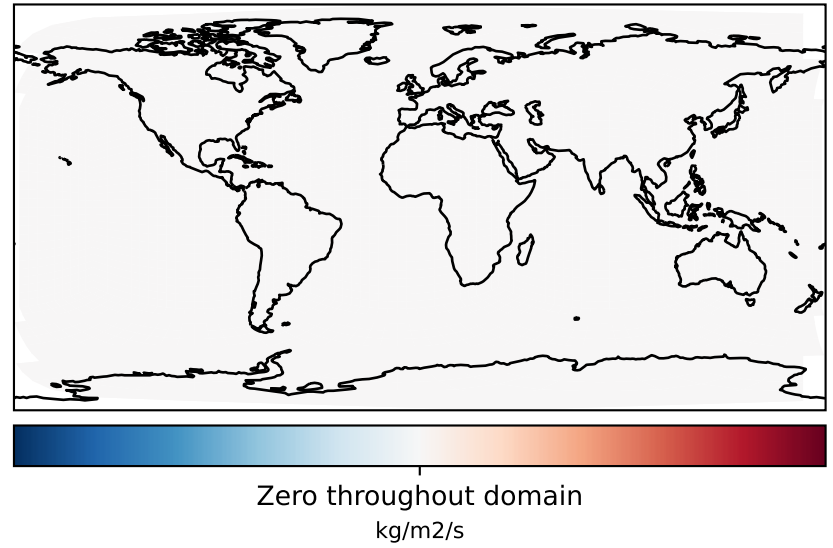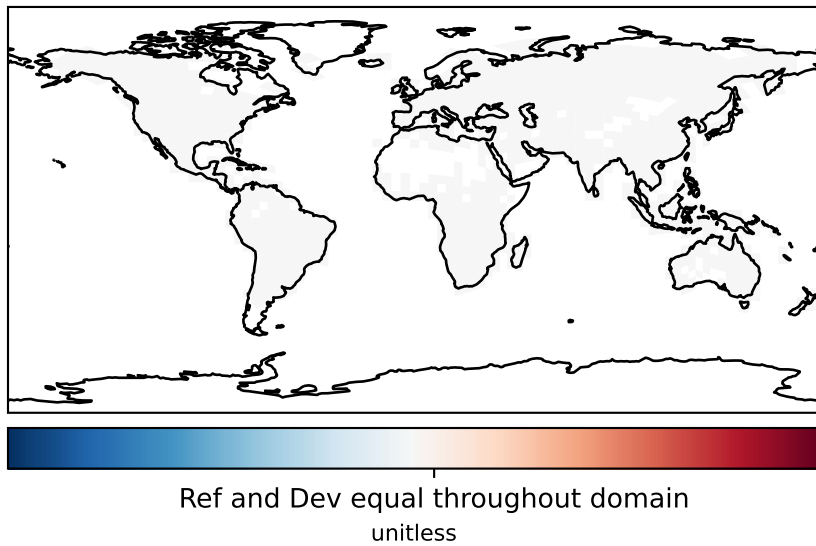Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

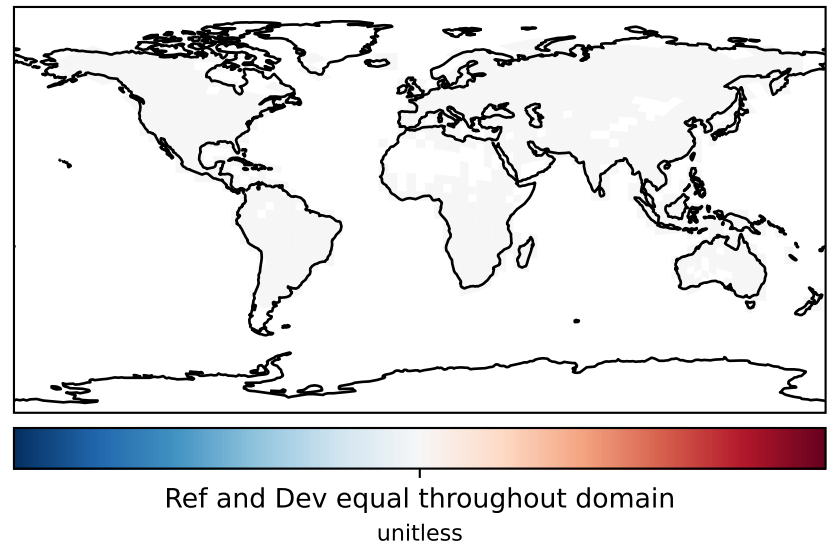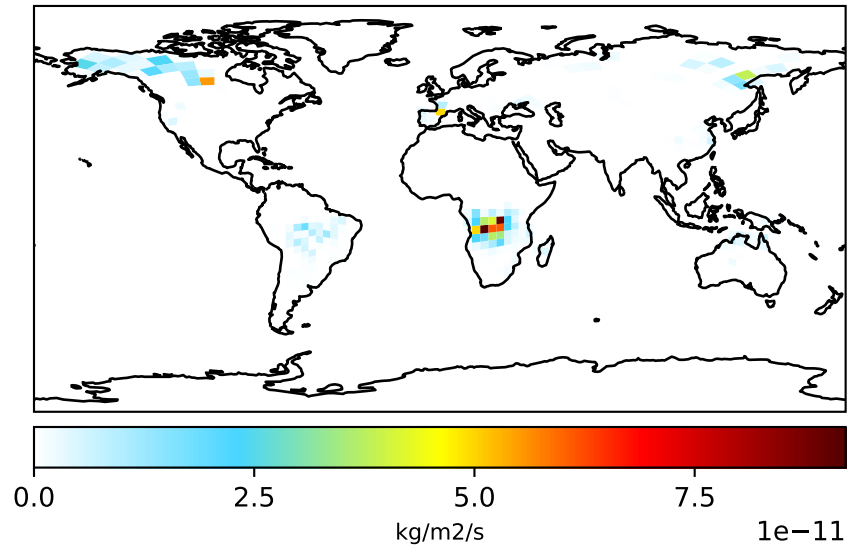Difference
Dev - Ref, Restricted Range [5%,95%]

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

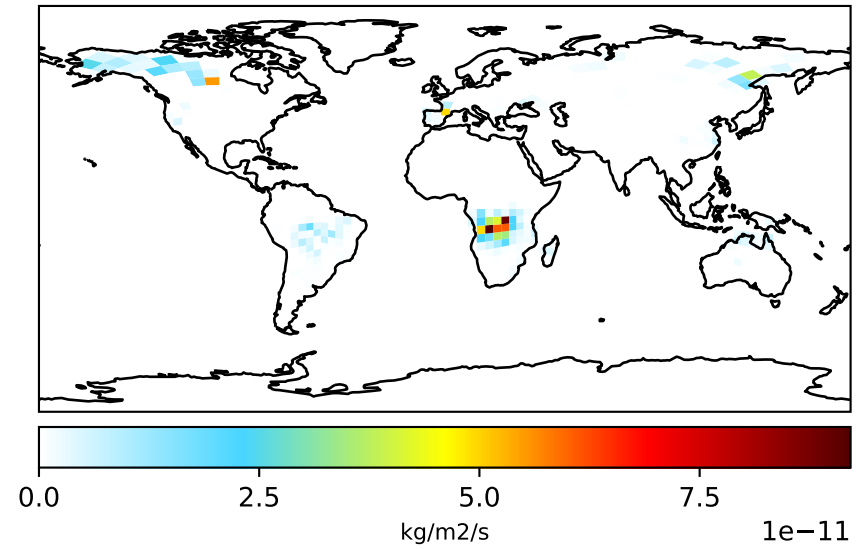Ref and Dev equal throughout domain
unitless

EmisRCHO_BioBurn
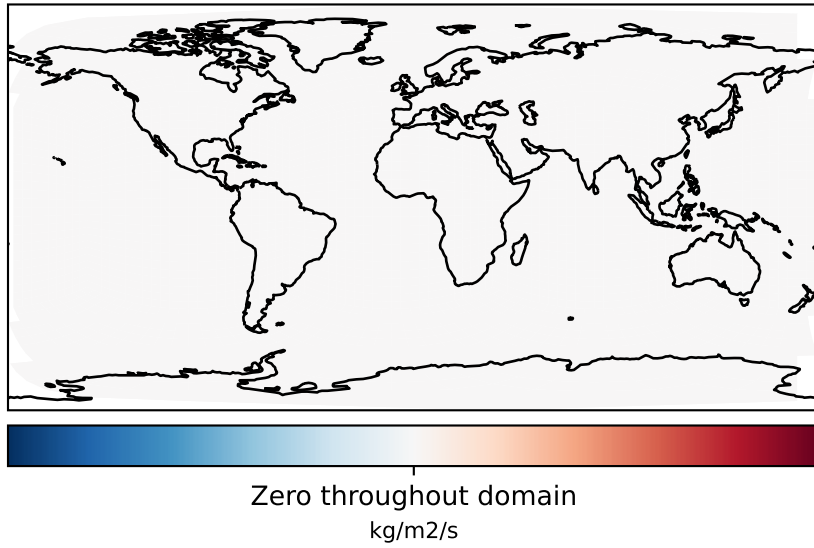
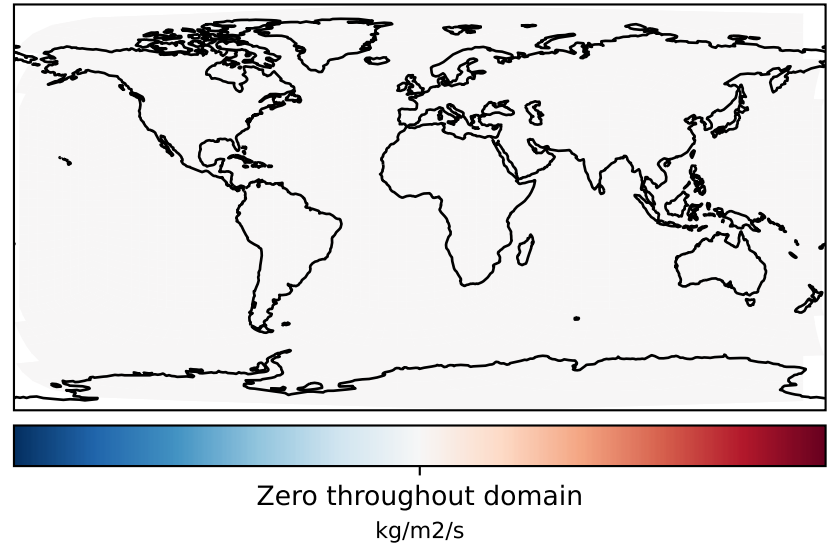# EmisSO2_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

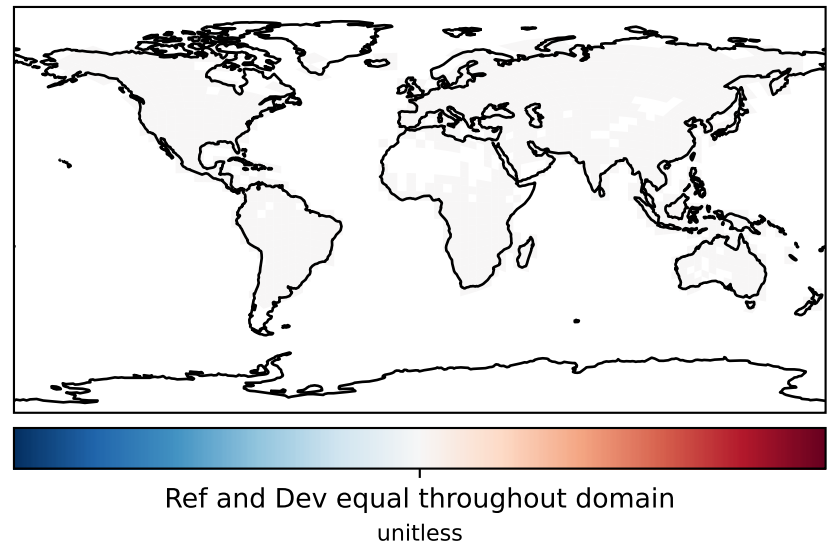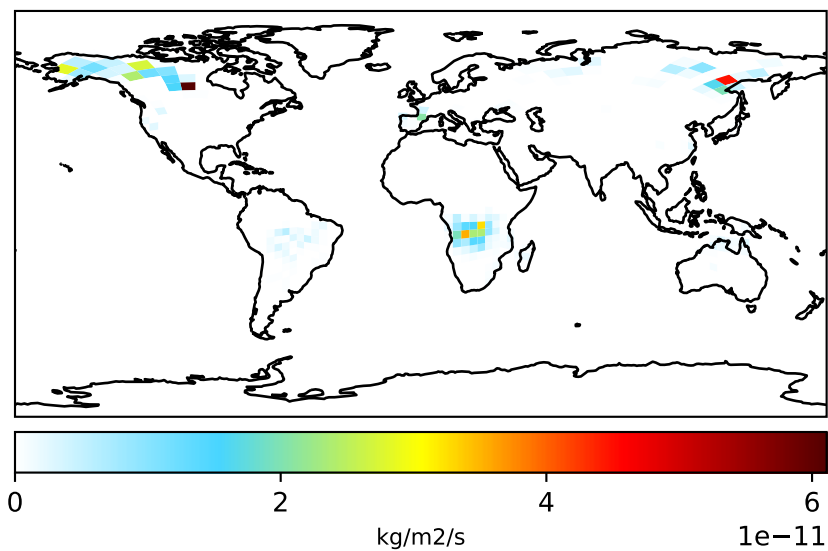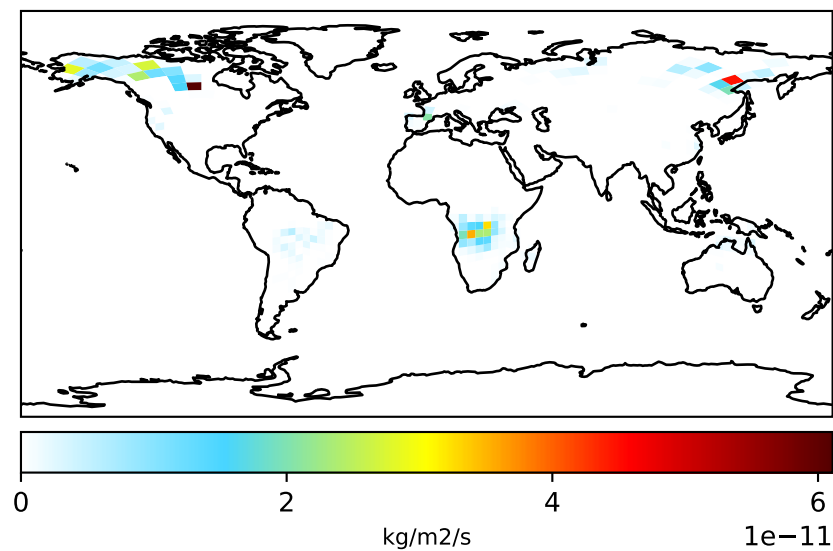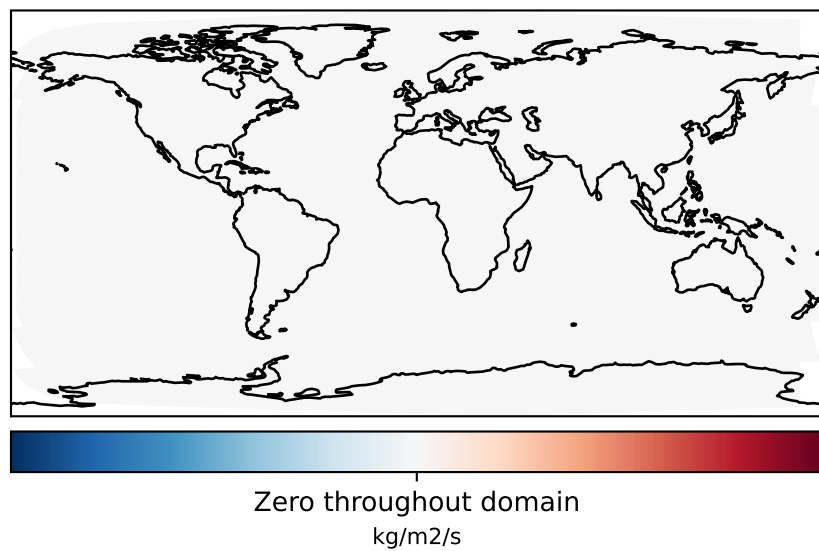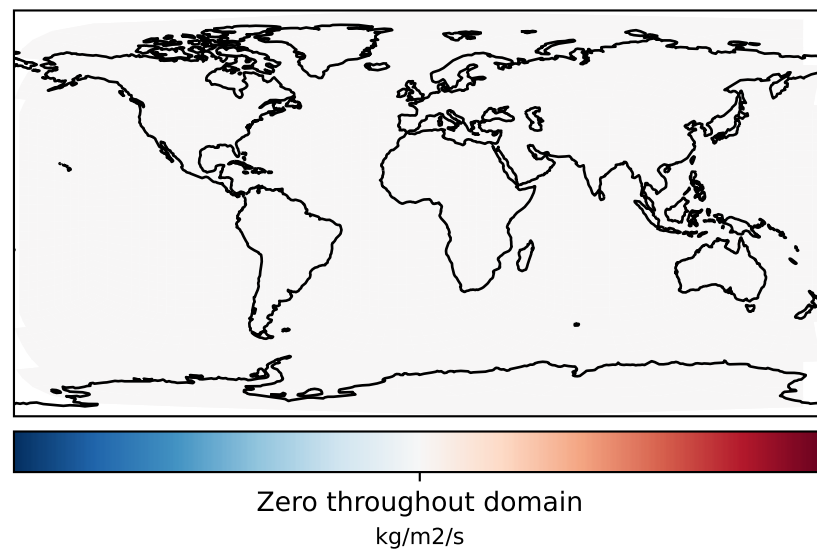Difference
Dev - Ref, Restricted Range [5%,95%]

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

EmisSOAP_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
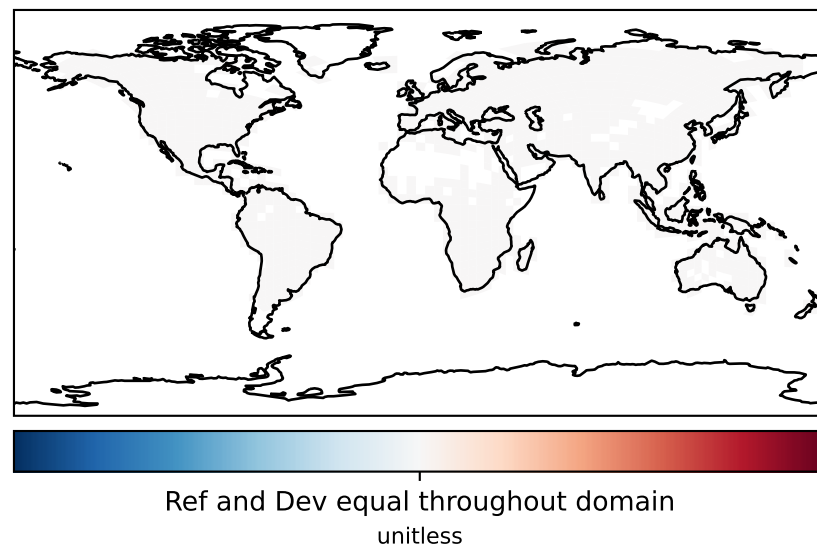c24

kg/m2/s

kg/m2/s

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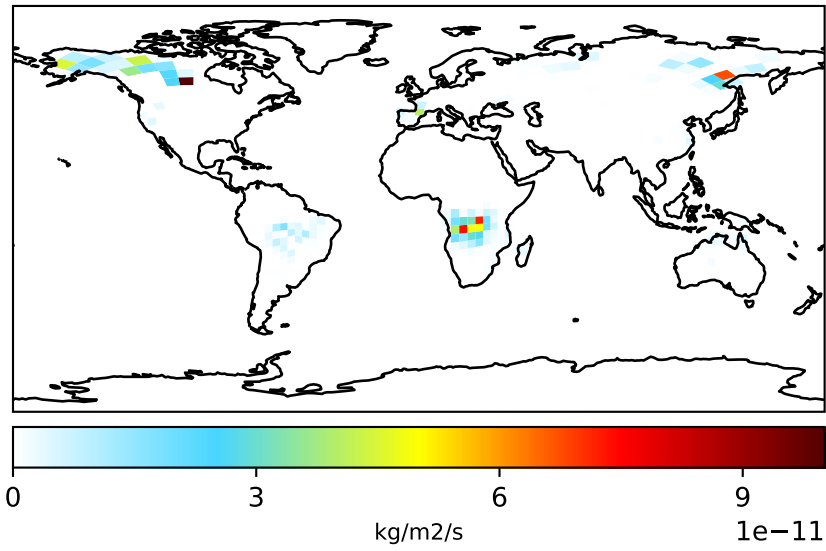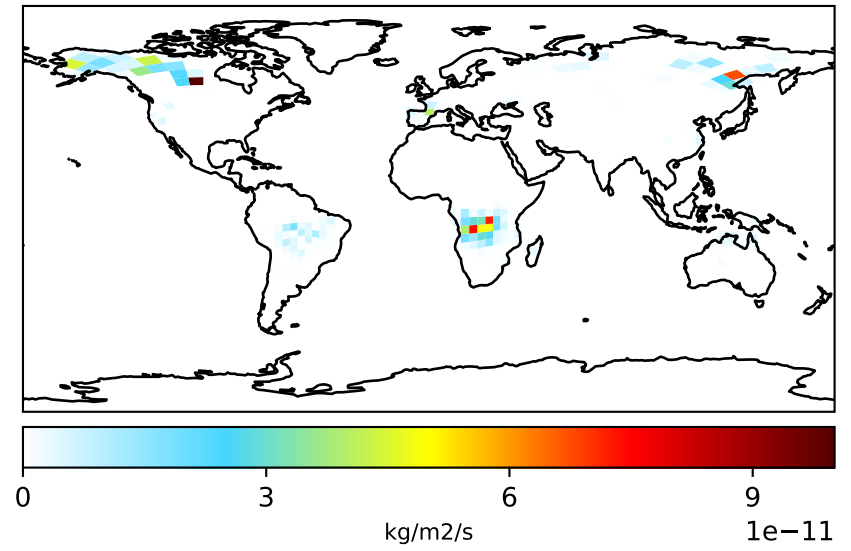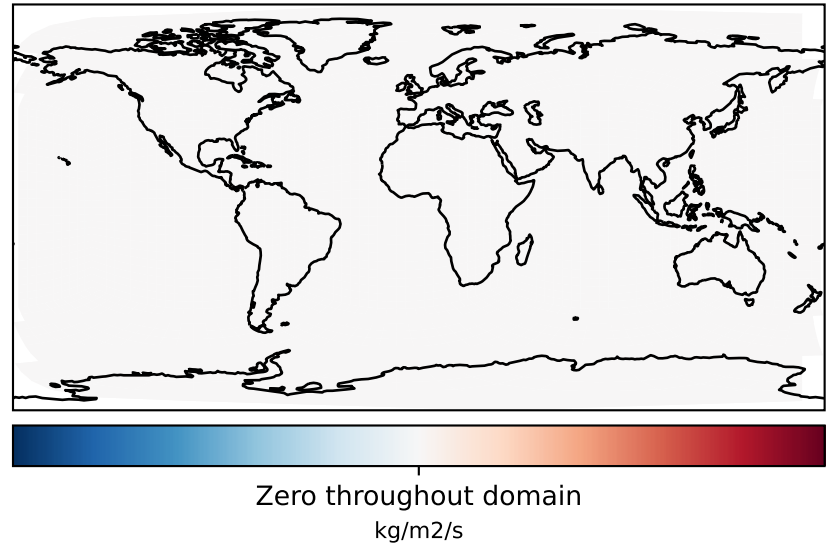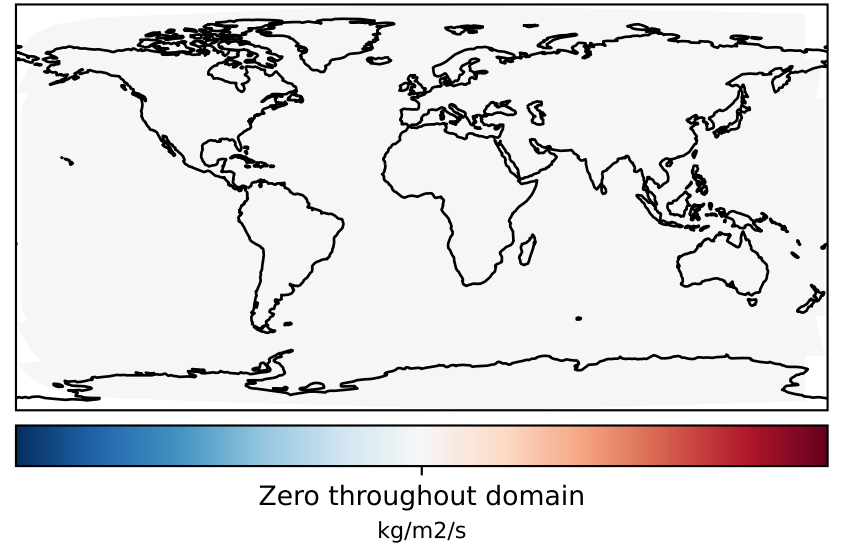
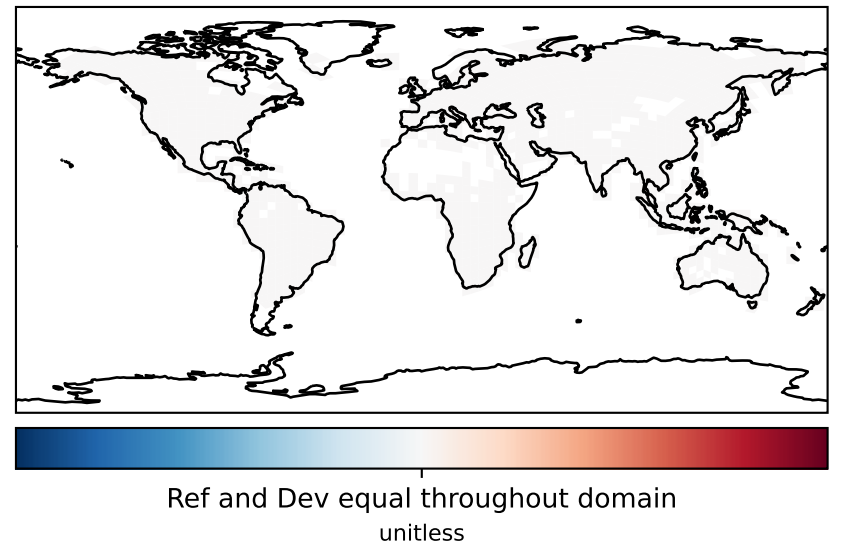Difference
Dev - Ref, Restricted Range [5%,95%]

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

EmisTOLU_BioBurn

EmisXYLE_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

kg/m2/s

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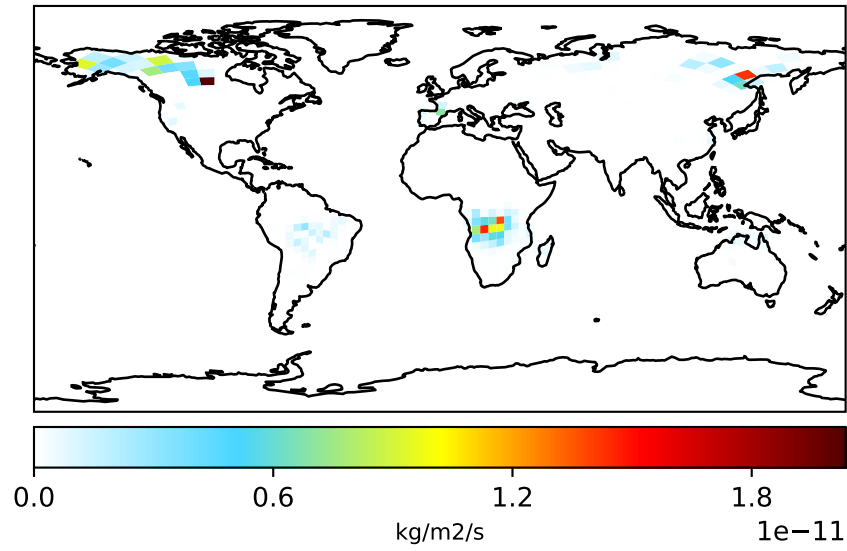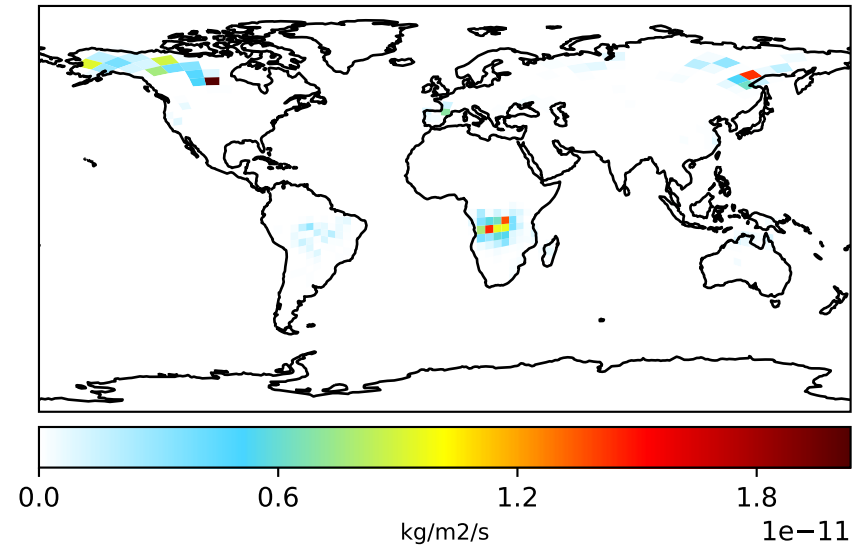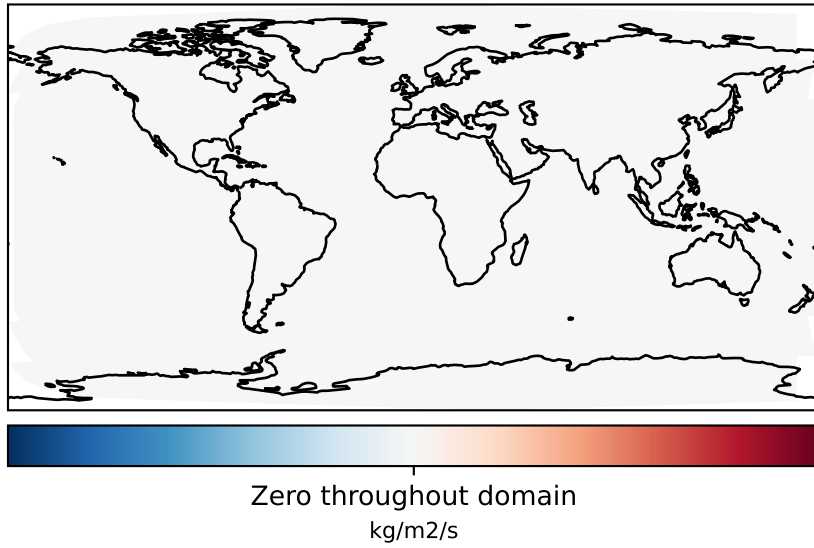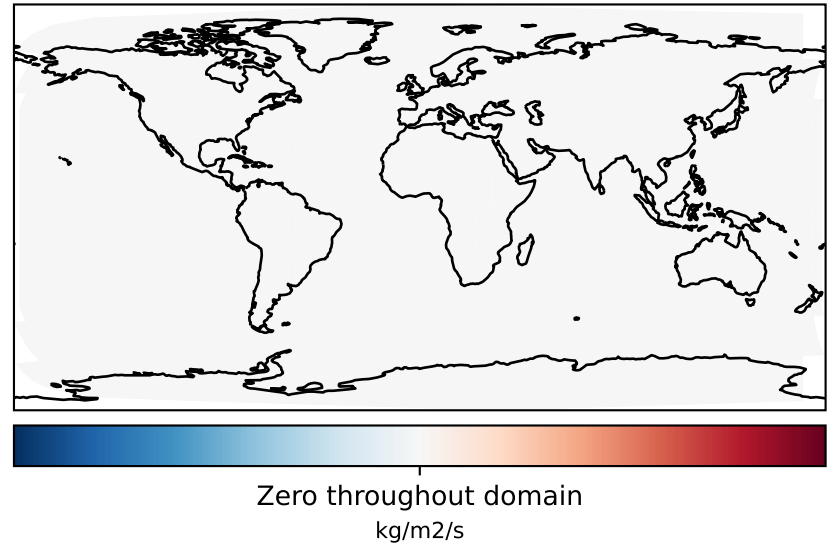
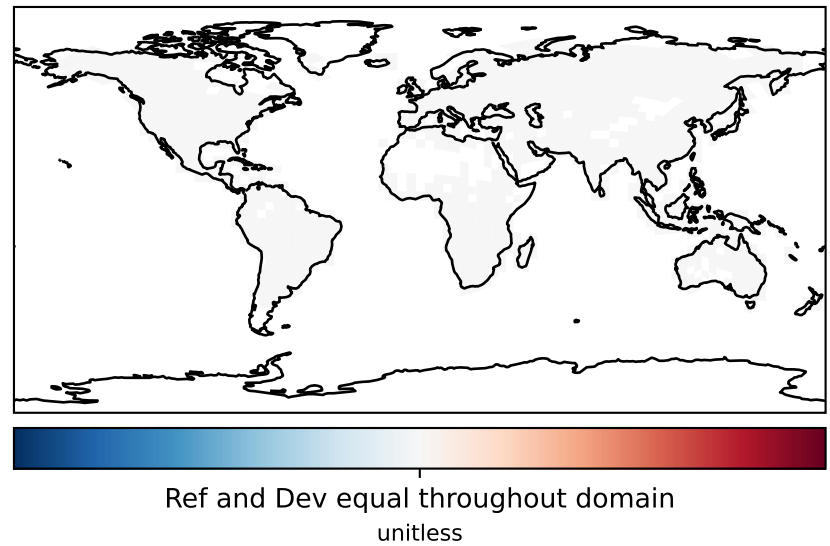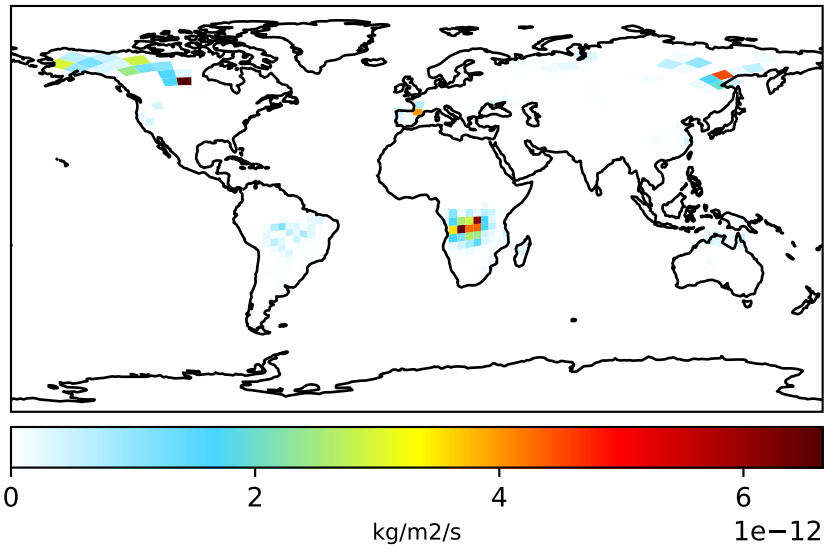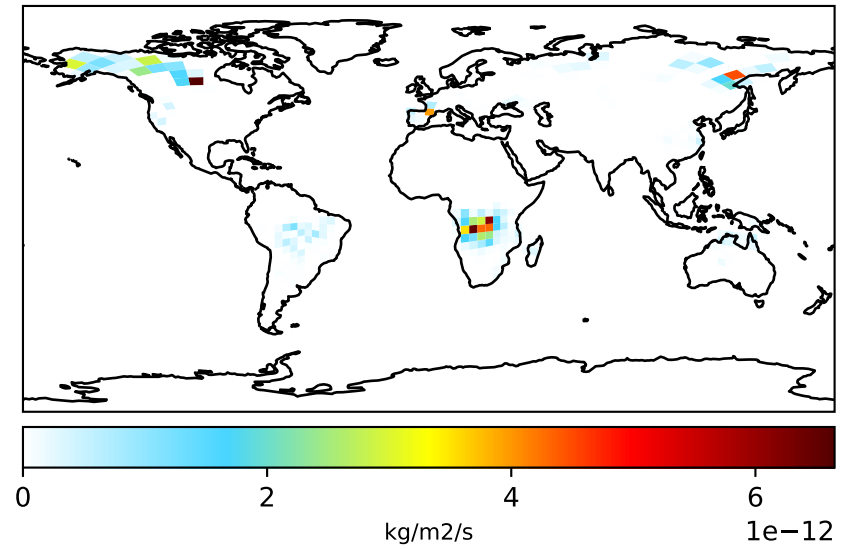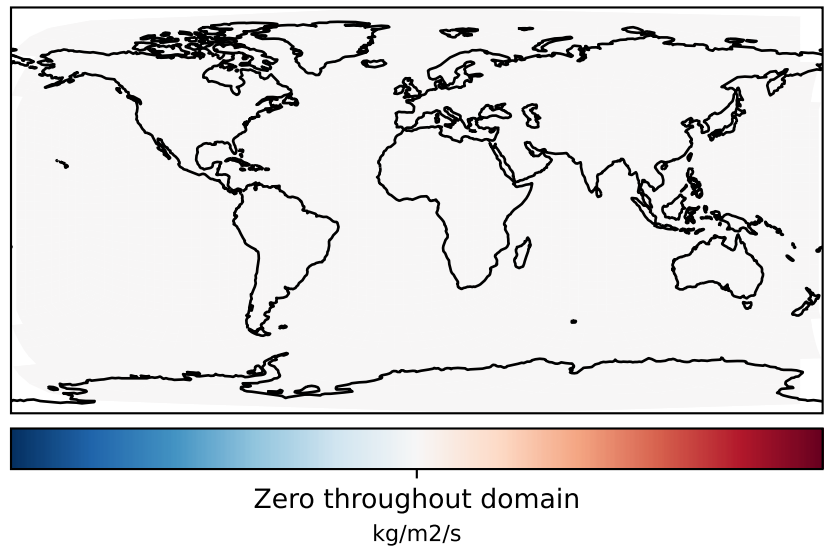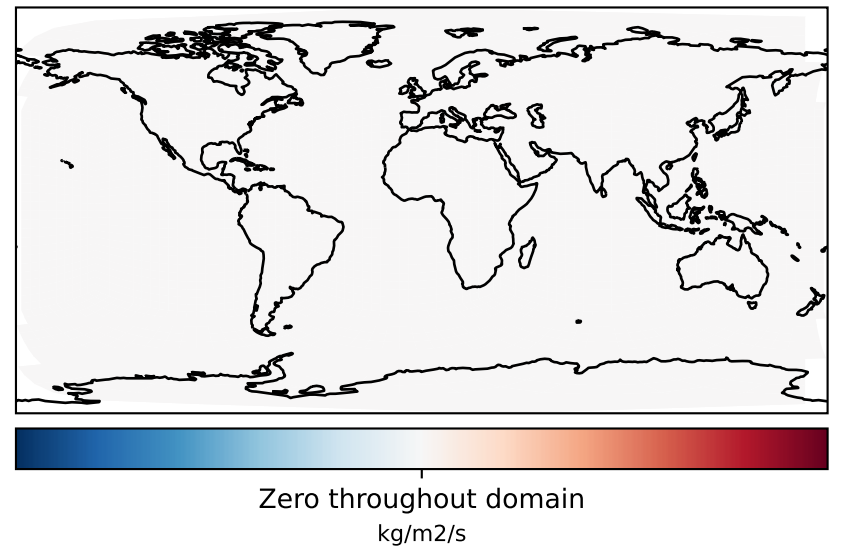Difference
Dev - Ref, Restricted Range [5%,95%]

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