EmisALK4_Aircraft

EmisALK4_Anthro

EmisALK4_BioBurn

EmisALK4_Ship

EmisALK4_Total

EmisBENZ_Anthro

EmisBENZ_BioBurn

EmisBENZ_Ship

EmisBENZ_Total

EmisCH4_Anthro

EmisCH4_BioBurn

GC_12.7.0 (Ref)
4x5

Zero throughout domain
kg/m2/s

GCHP_12.7.0 (Dev)
c48

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

Undefined throughout domain
unitless

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
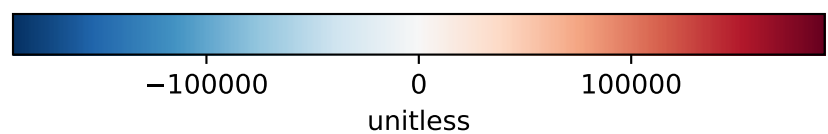unitless

EmisCH4_Ship

GC_12.7.0 (Ref)
4x5
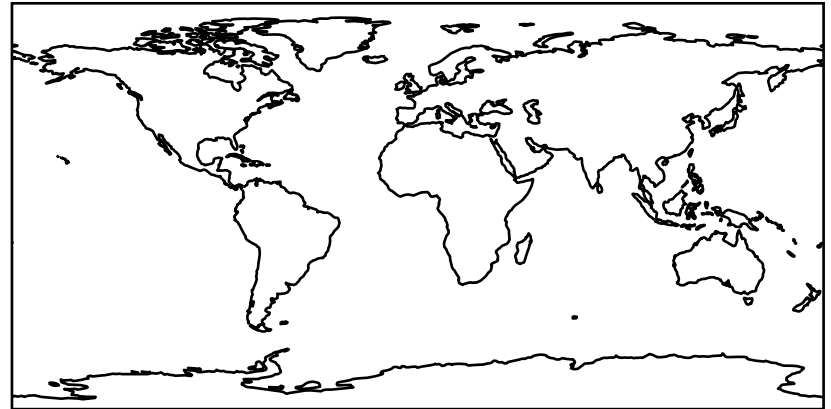
GCHP_12.7.0 (Dev)
c48
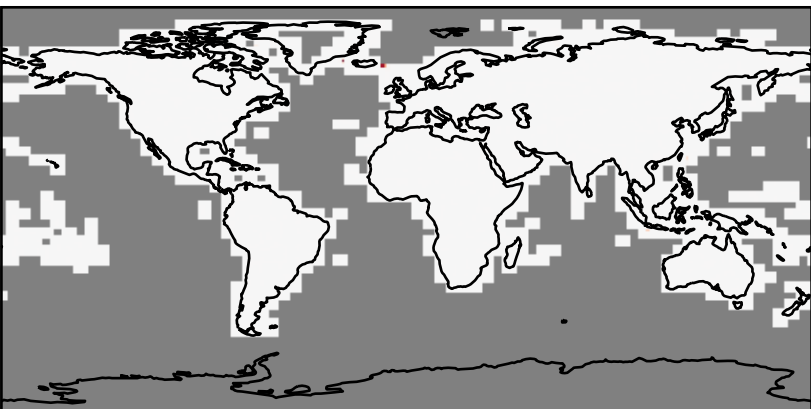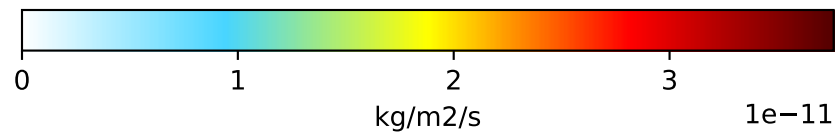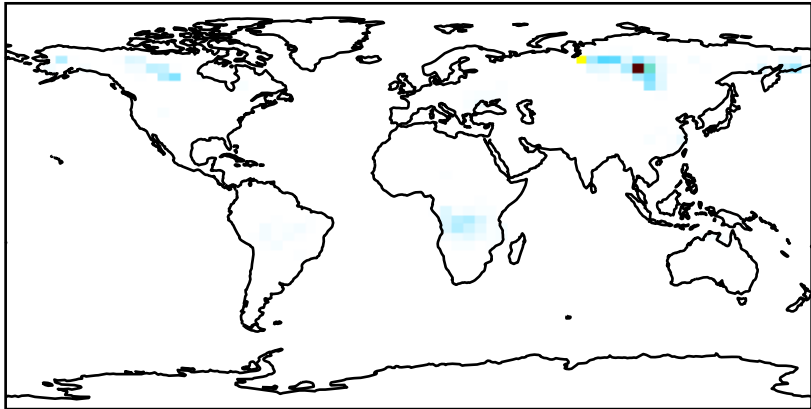
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range
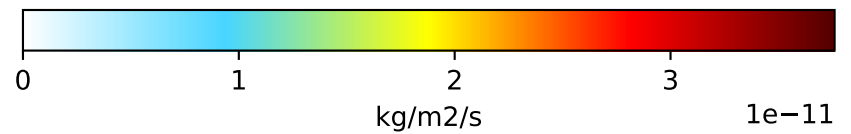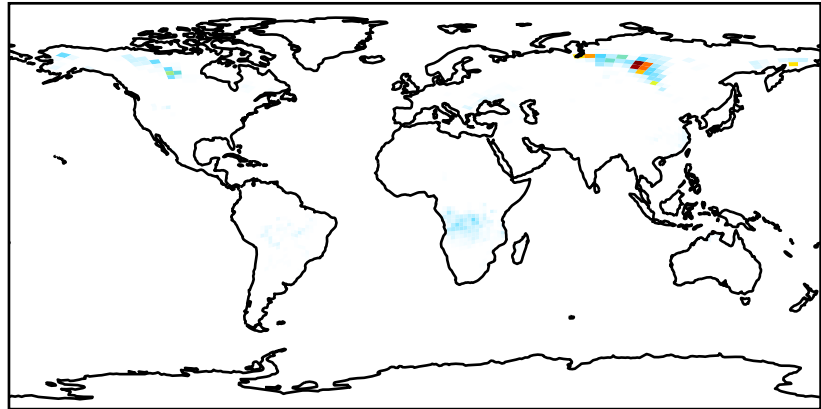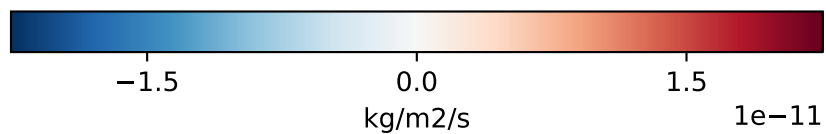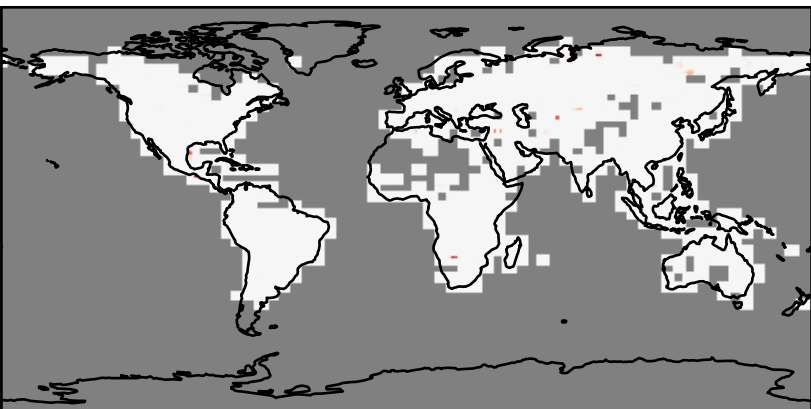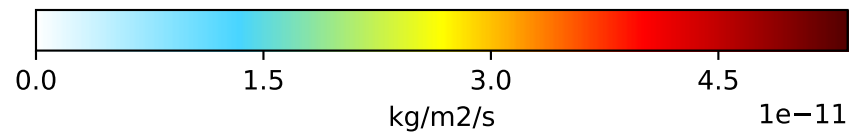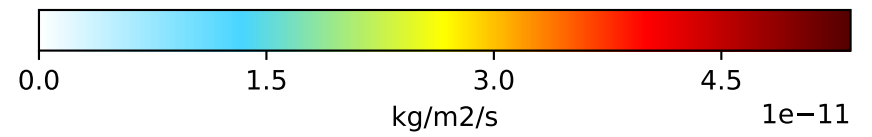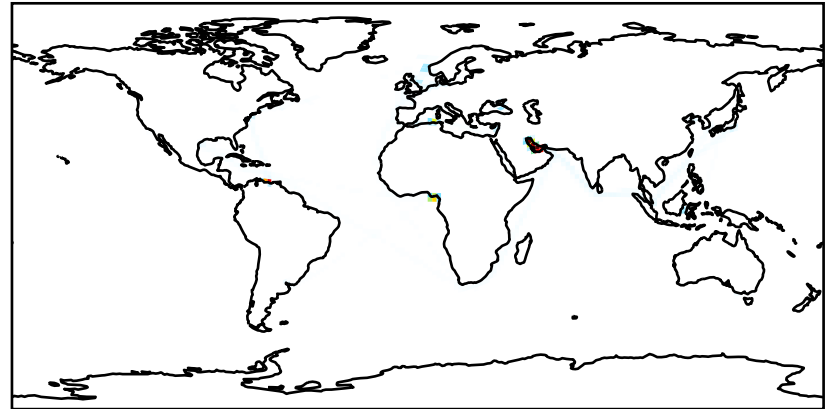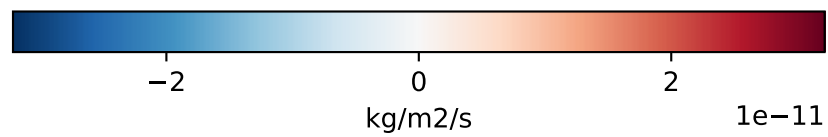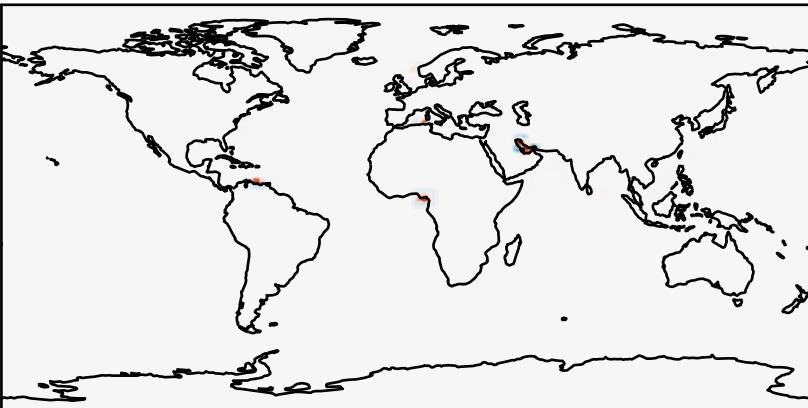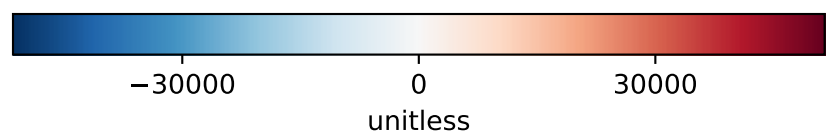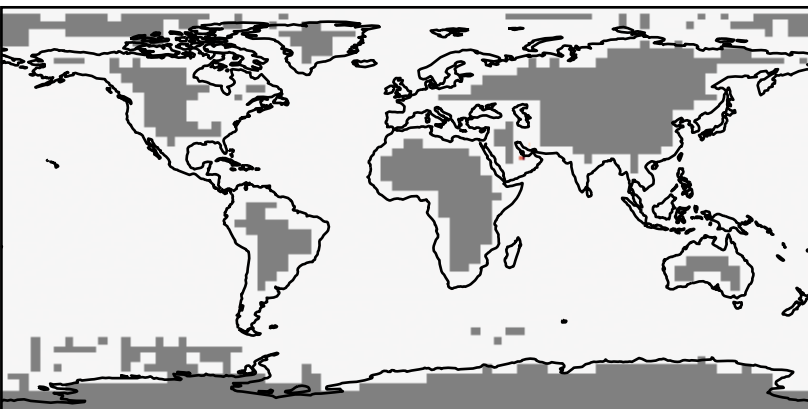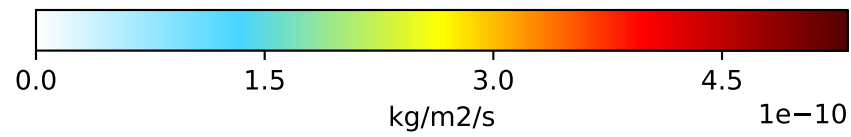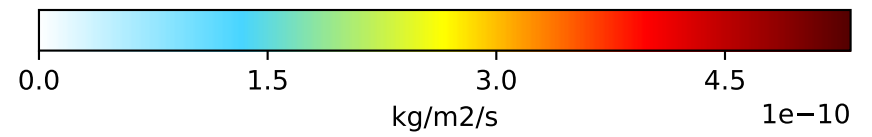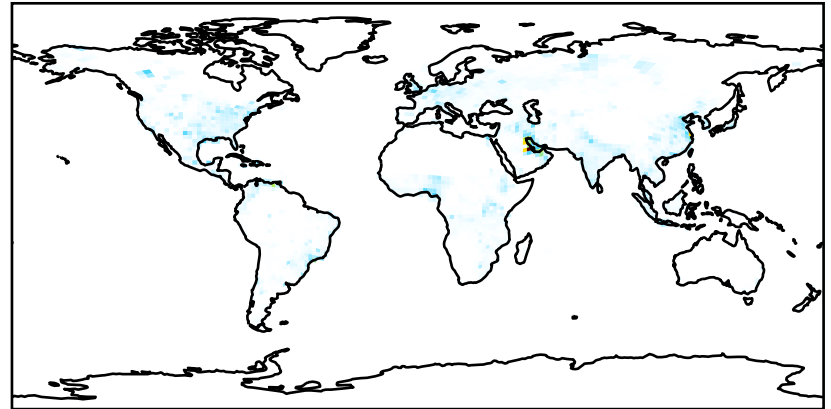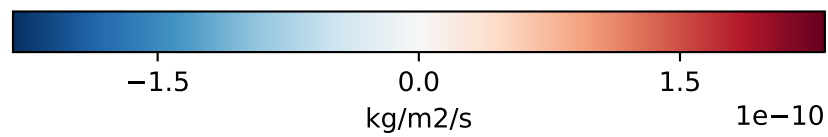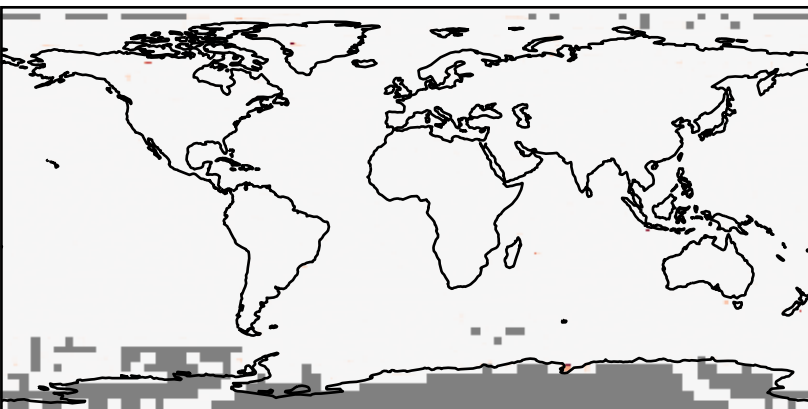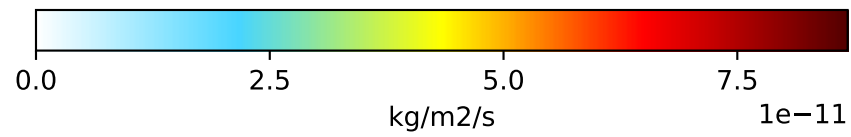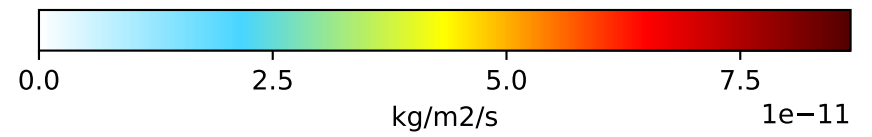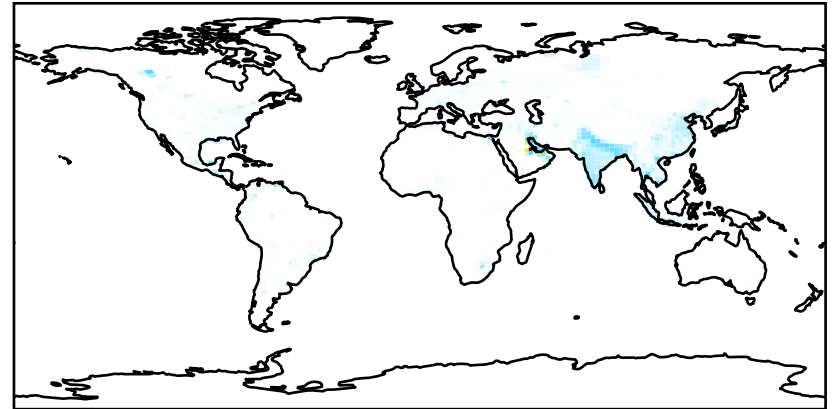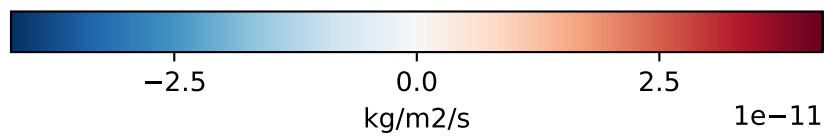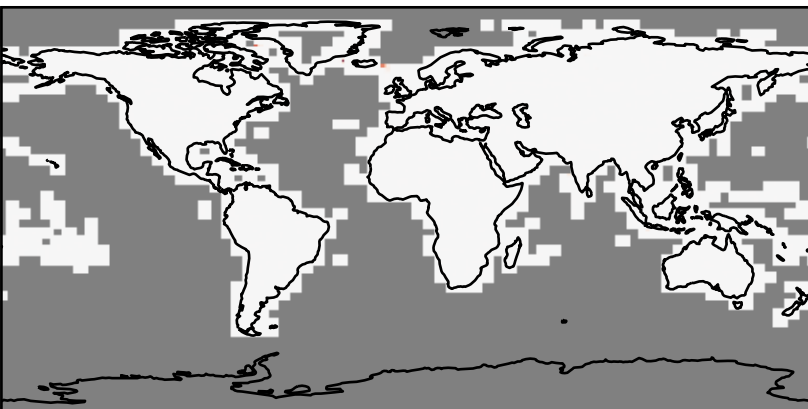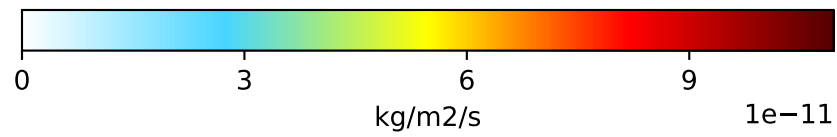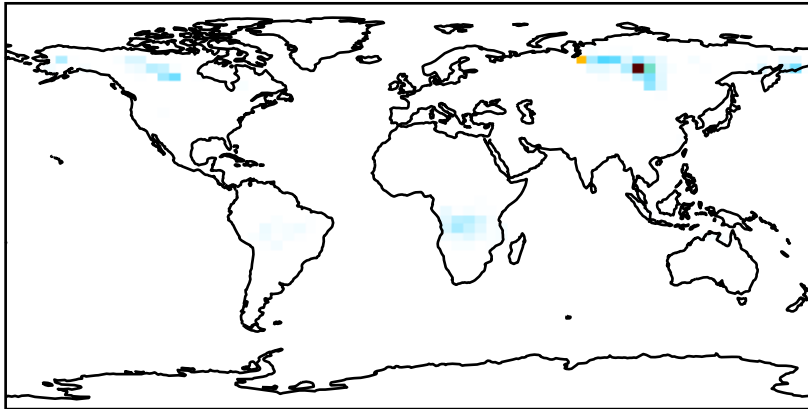
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
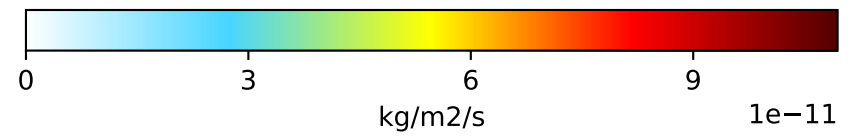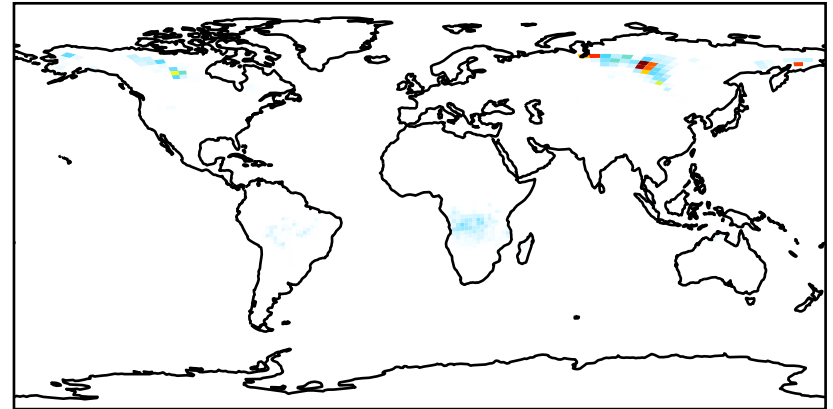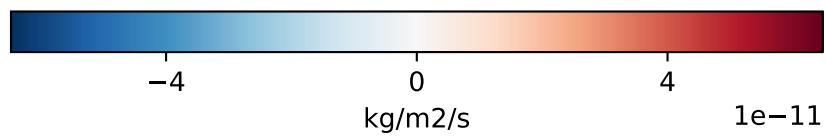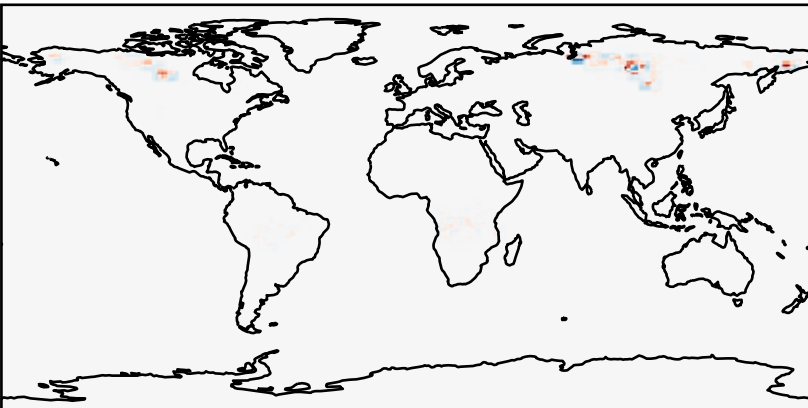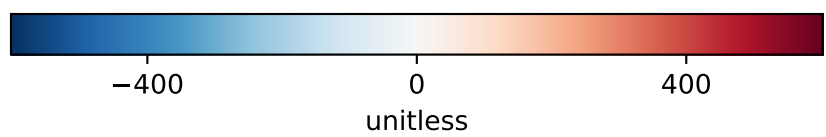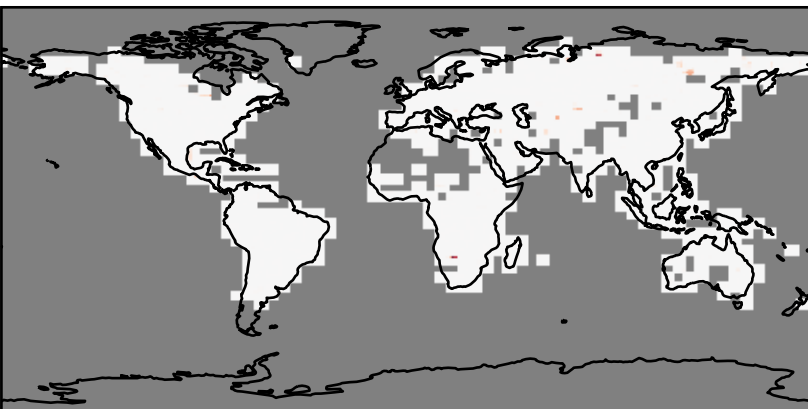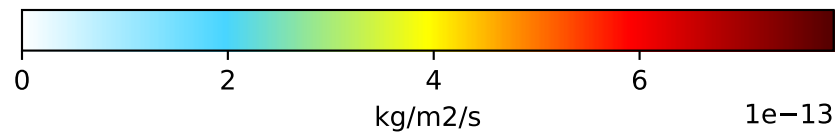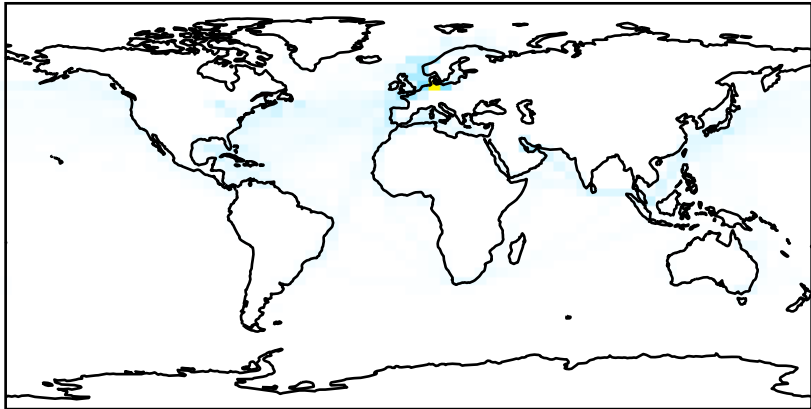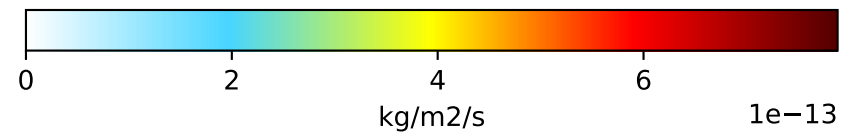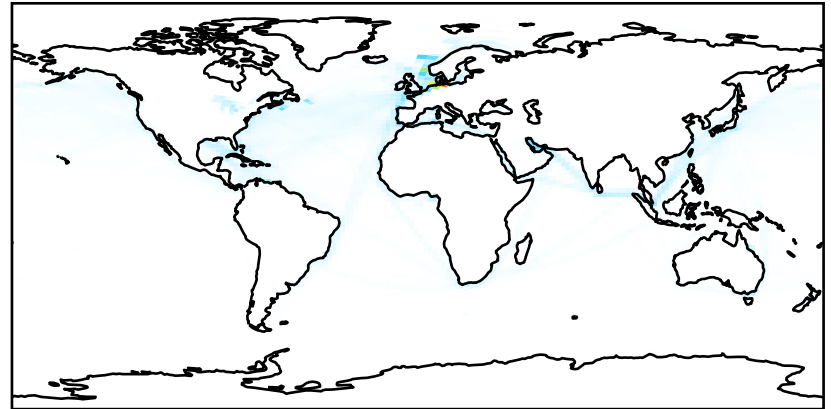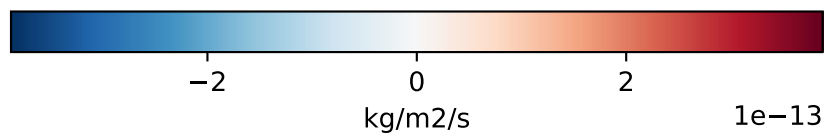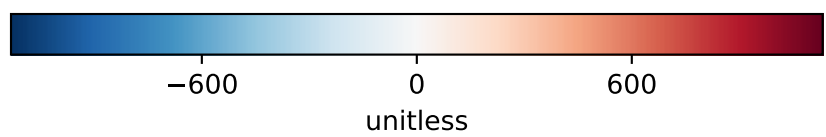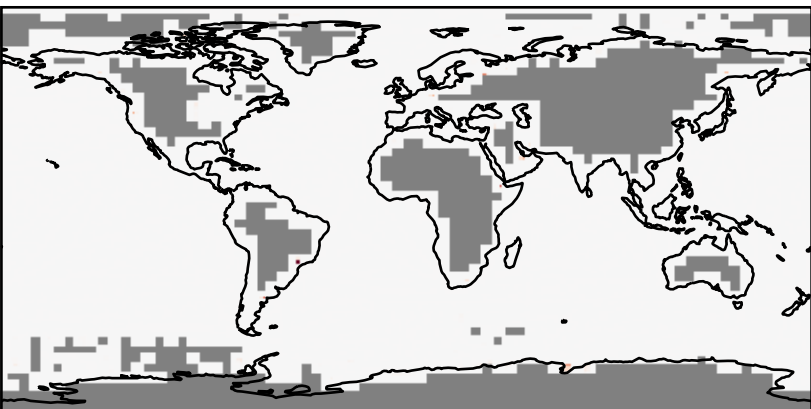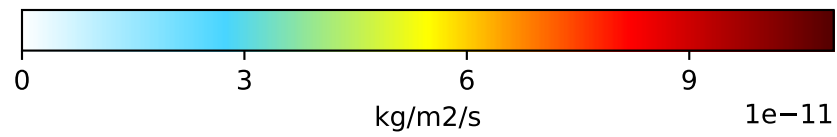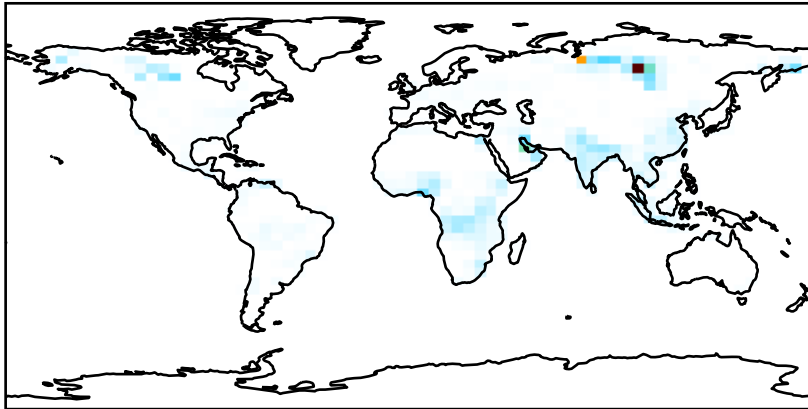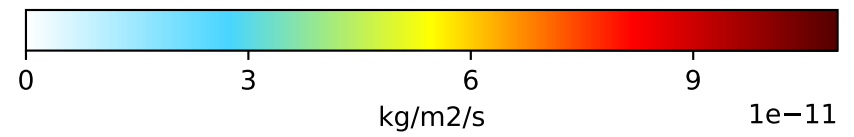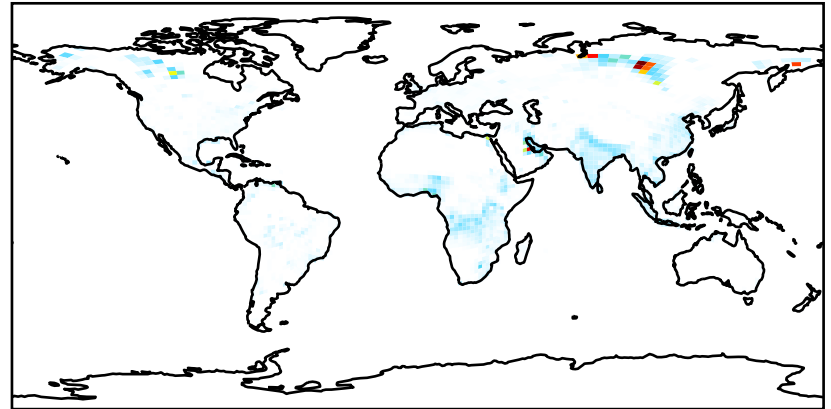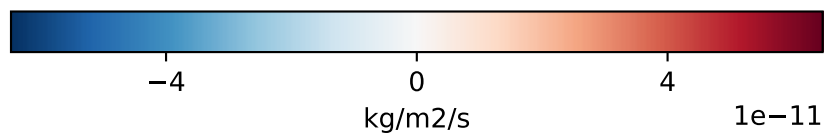unitless

Undefined throughout domain
unitless

EmisCH4_Total

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

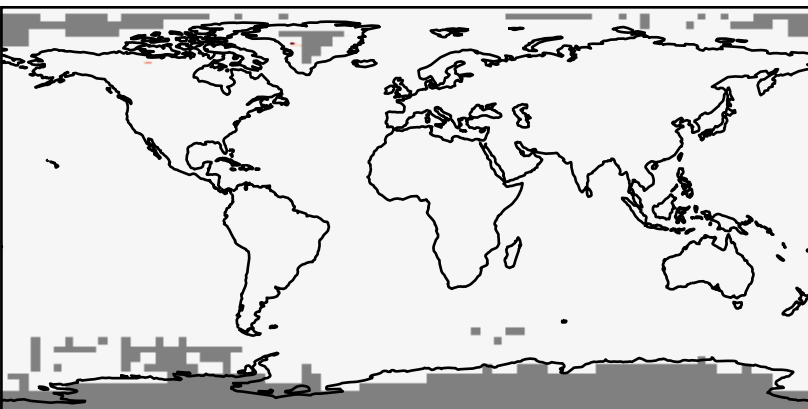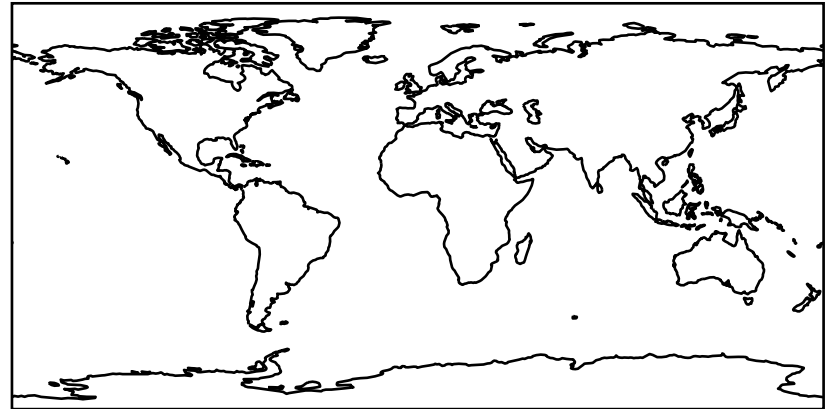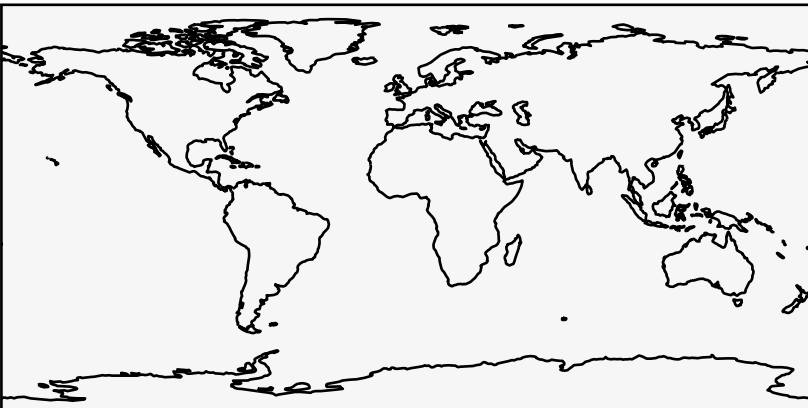### Difference (1x1.25)
Dev - Ref, Dynamic Range

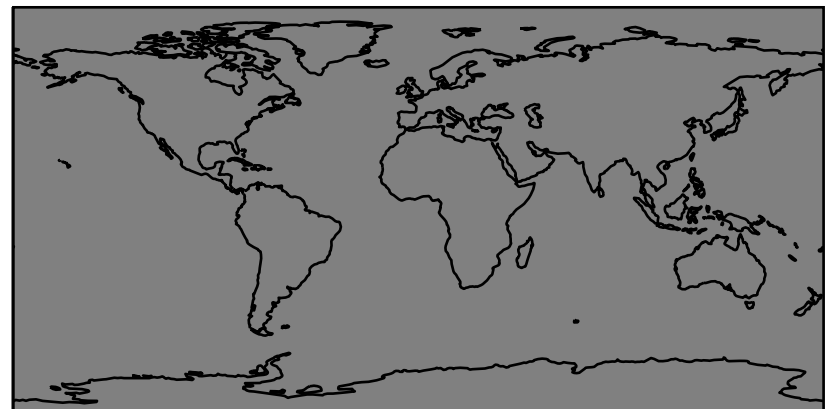### Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

Fractional Difference (1x1.25)
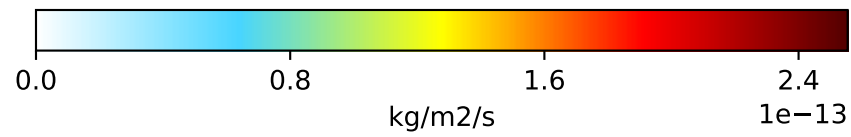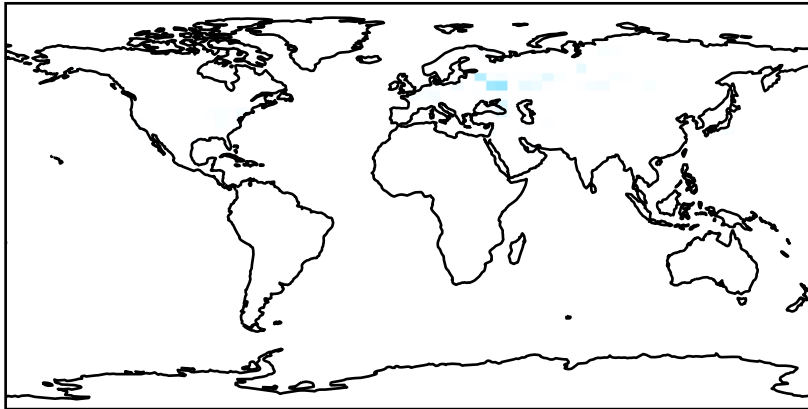### (Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
unitless

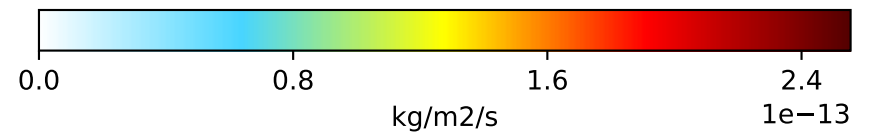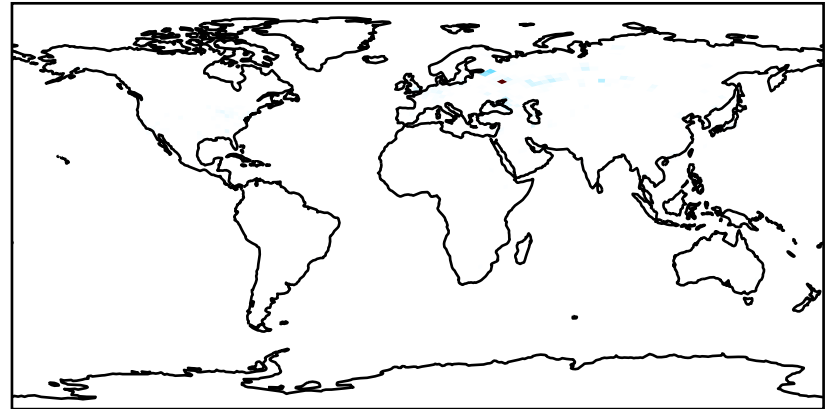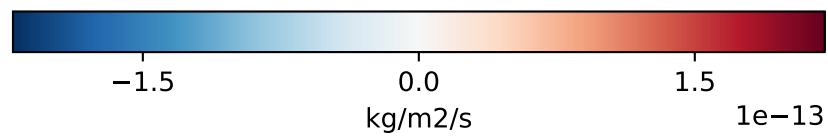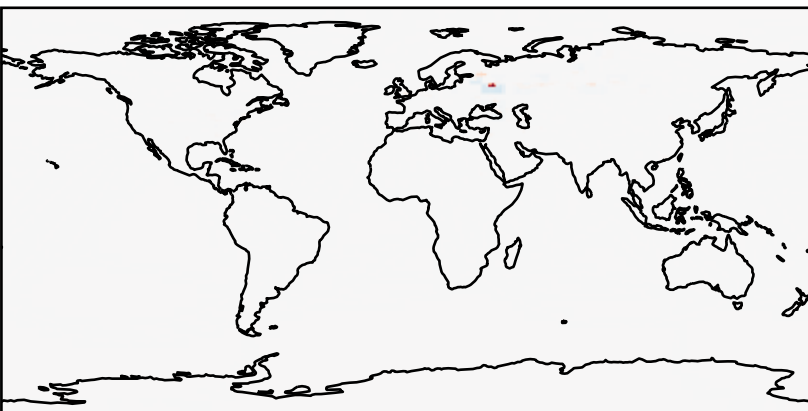Undefined throughout domain
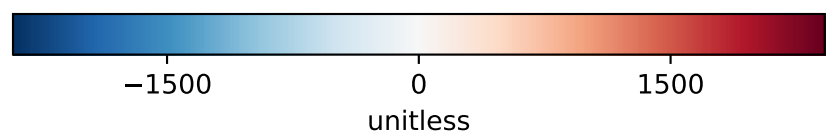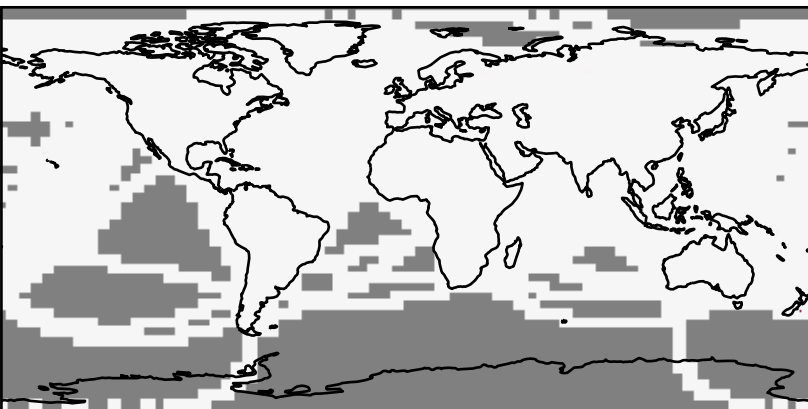unitless

EmisC2H6_Aircraft
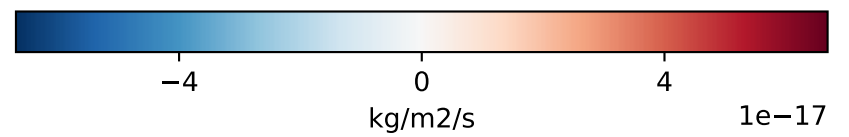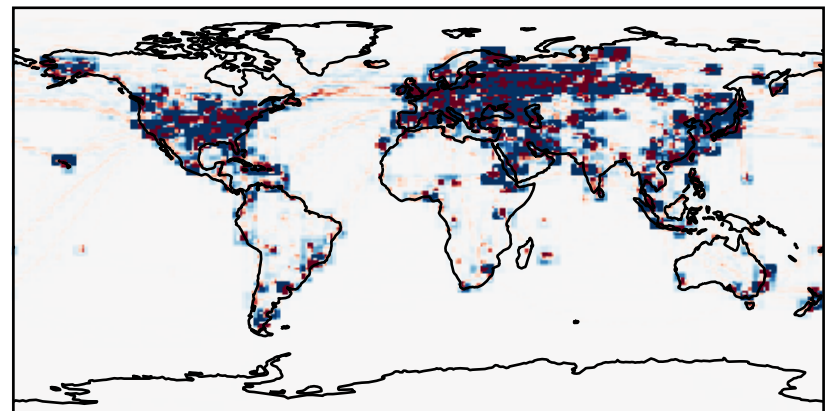
EmisC2H6_Anthro

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

kg/m2/s

kg/m2/s

Difference (1x1.25)
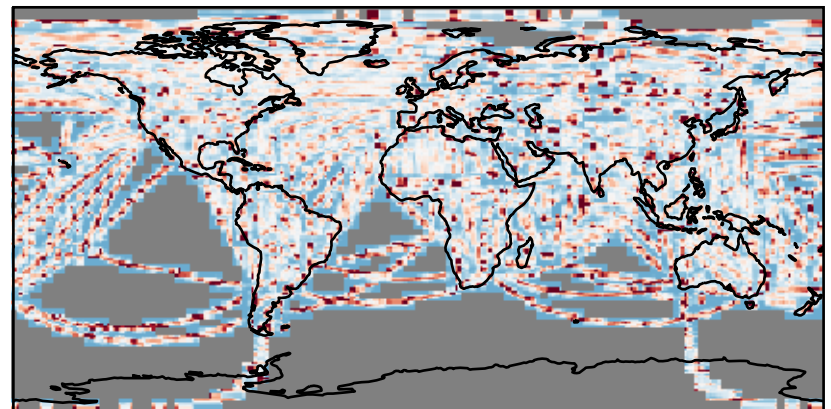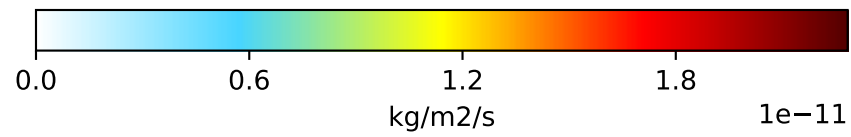Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

kg/m2/s

kg/m2/s

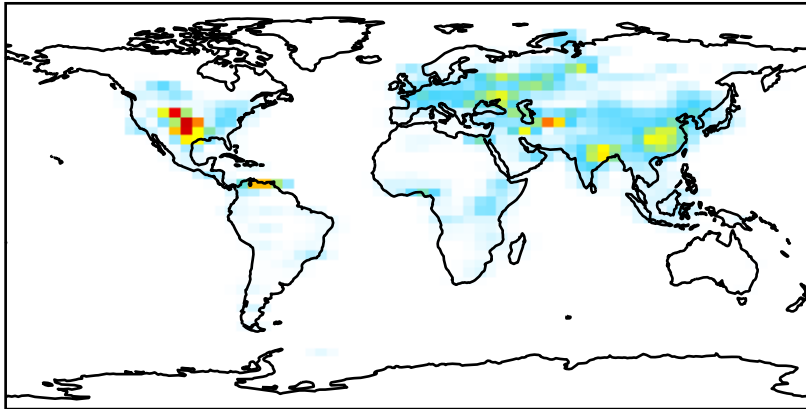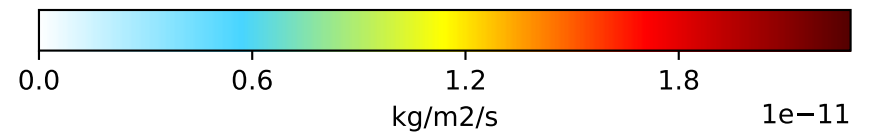Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

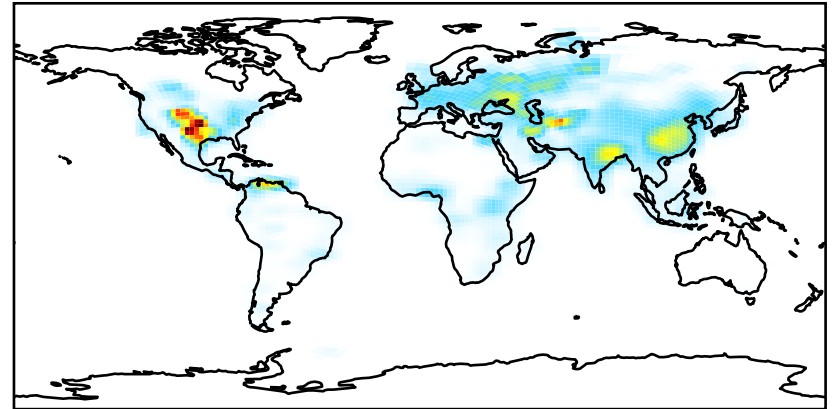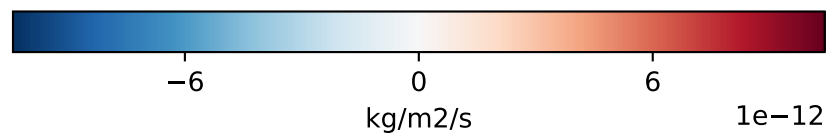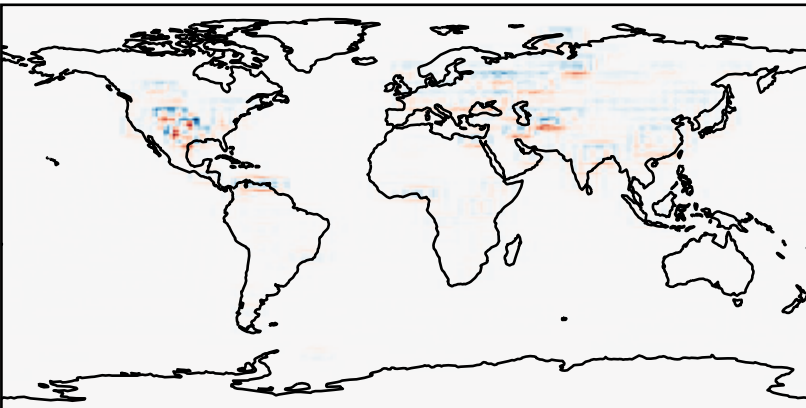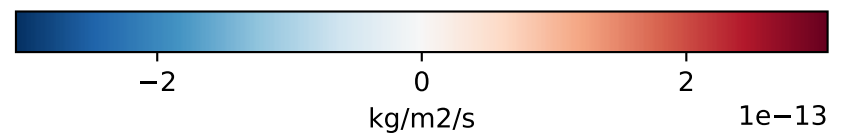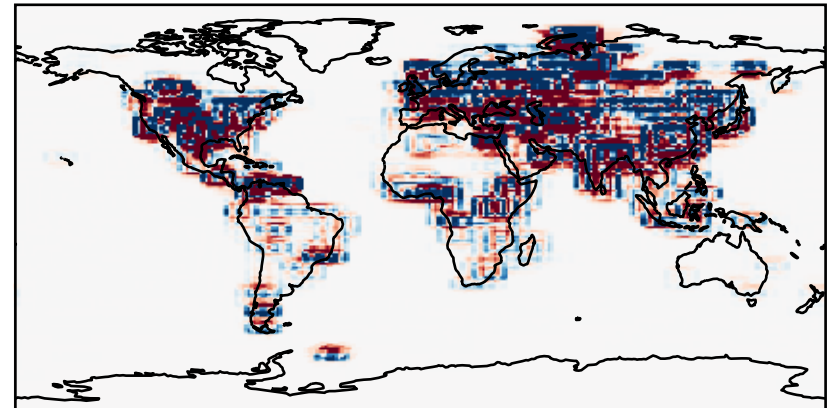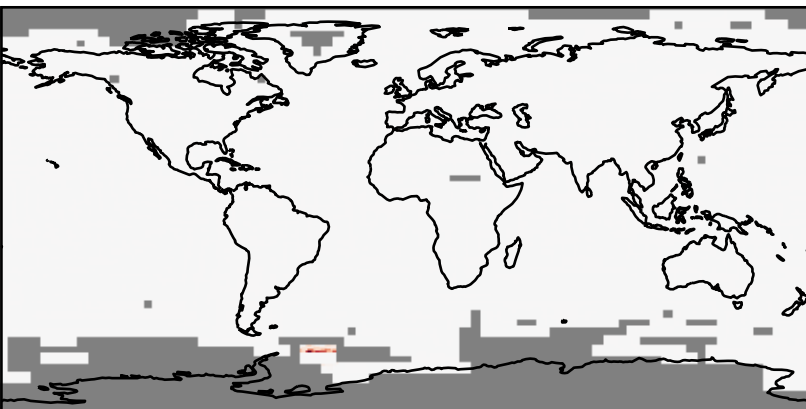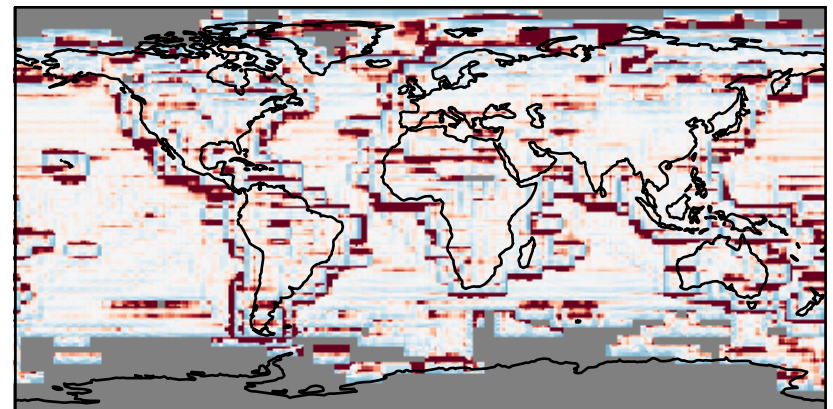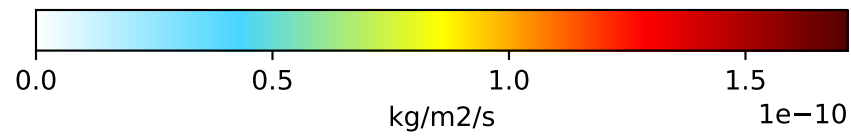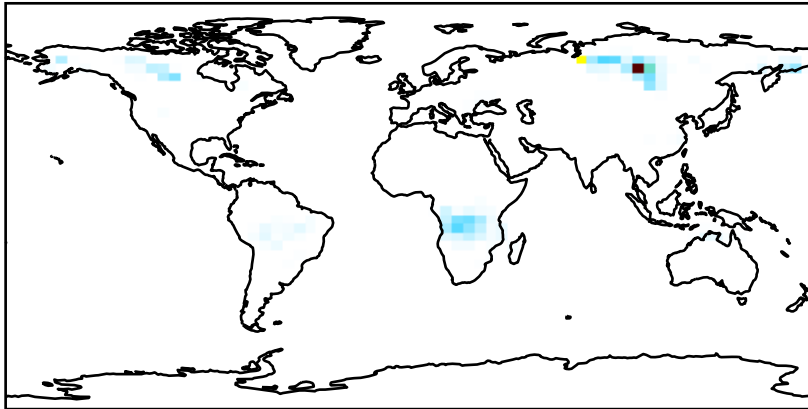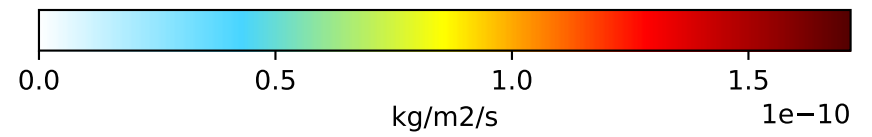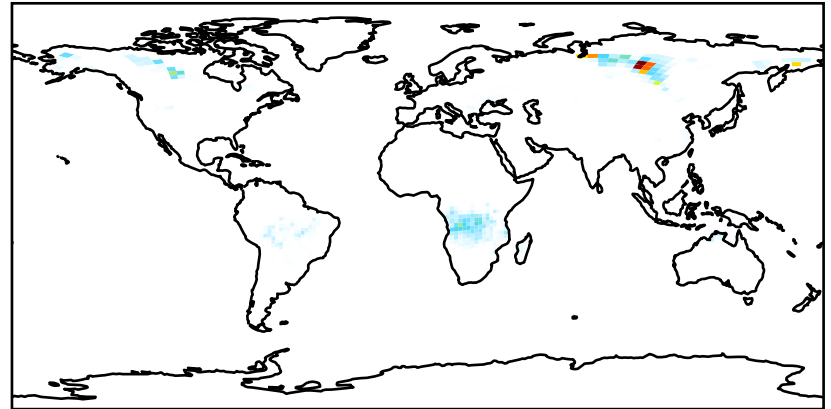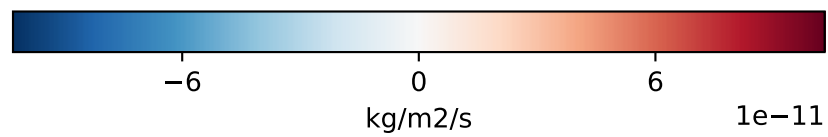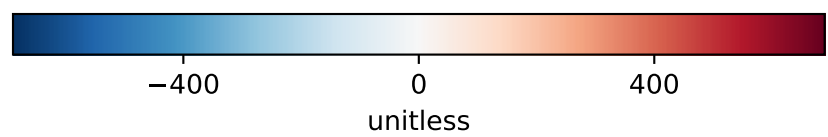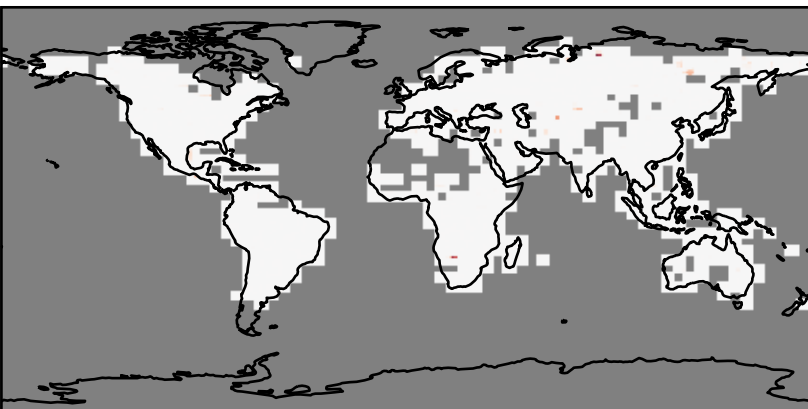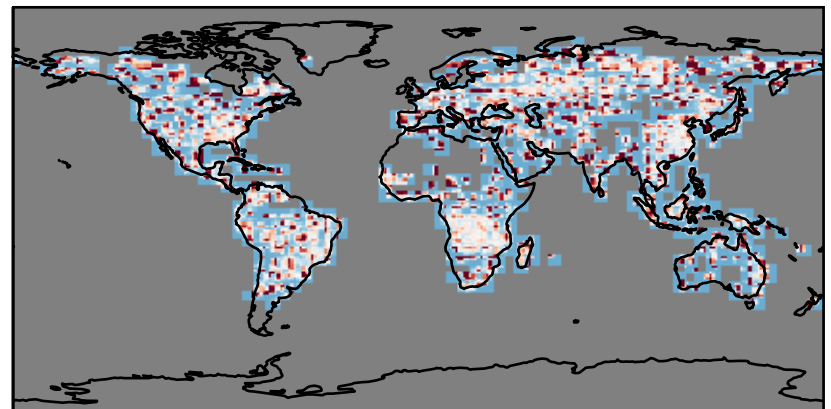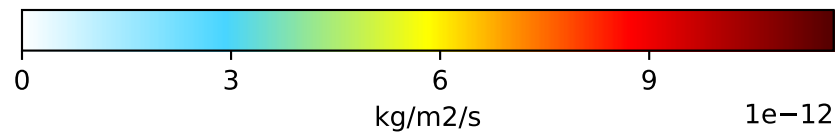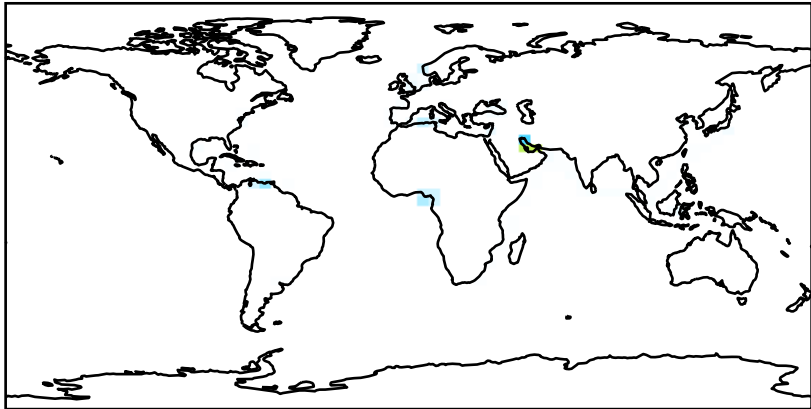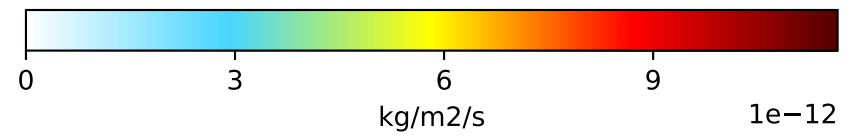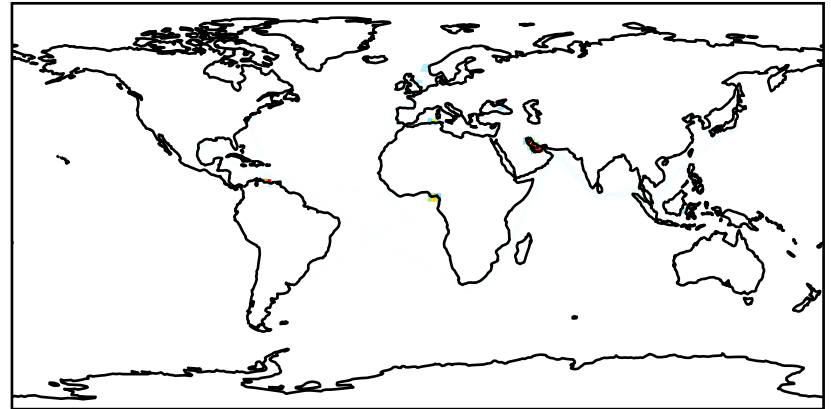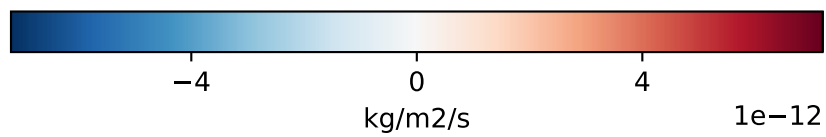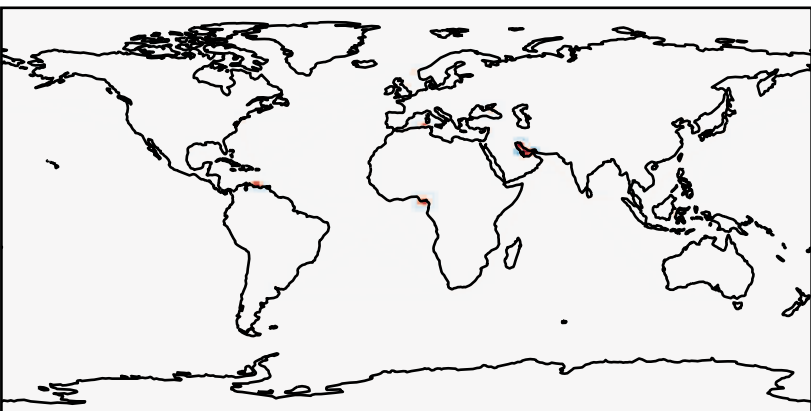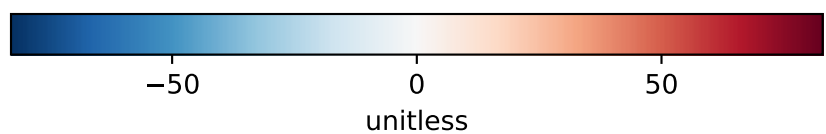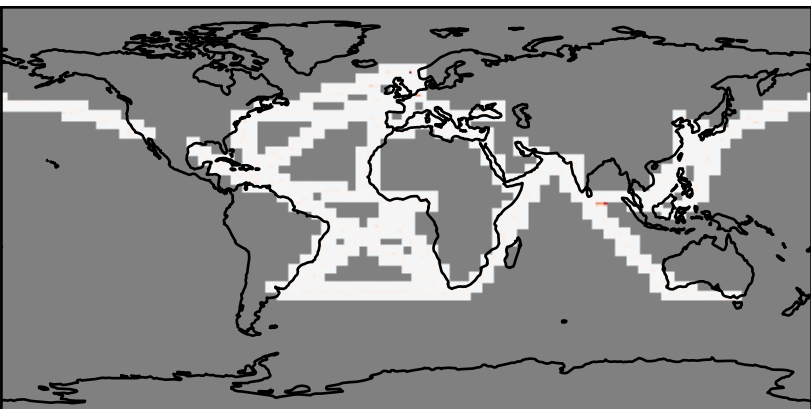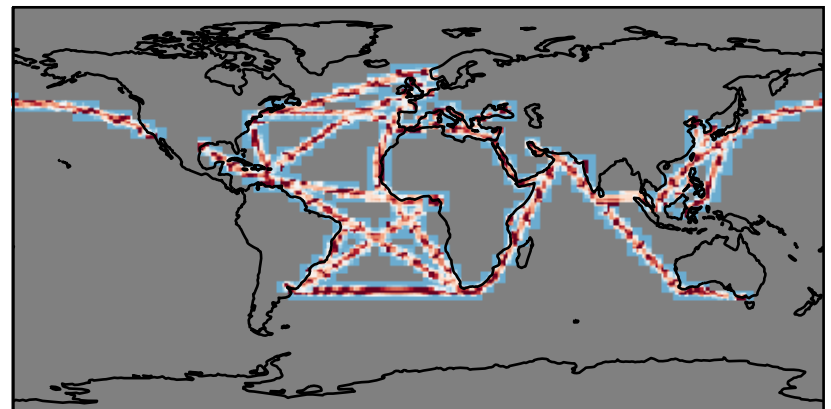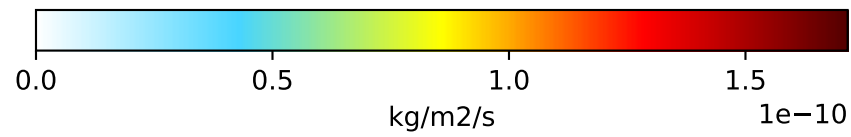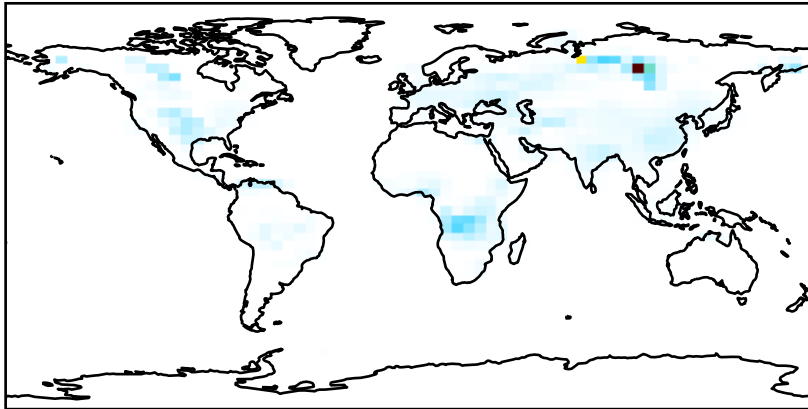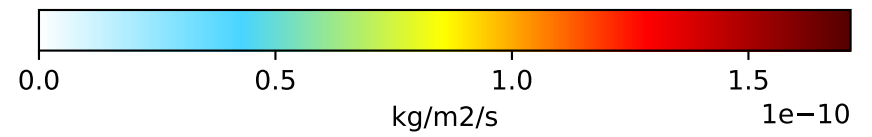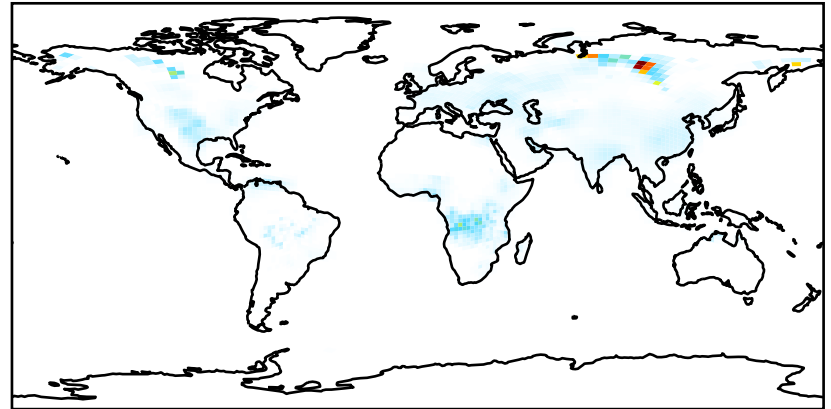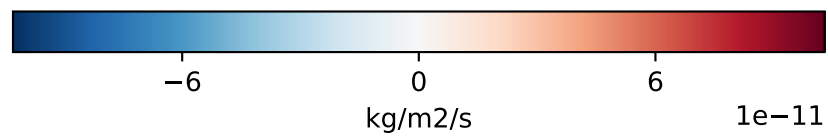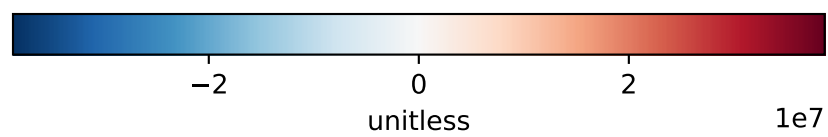Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

unitless

unitless

EmisC2H6_BioBurn

EmisC2H6_Ship

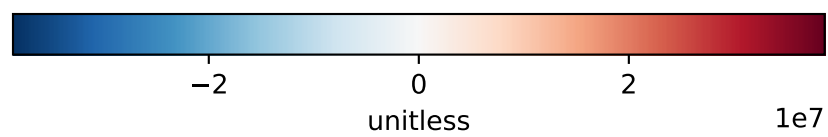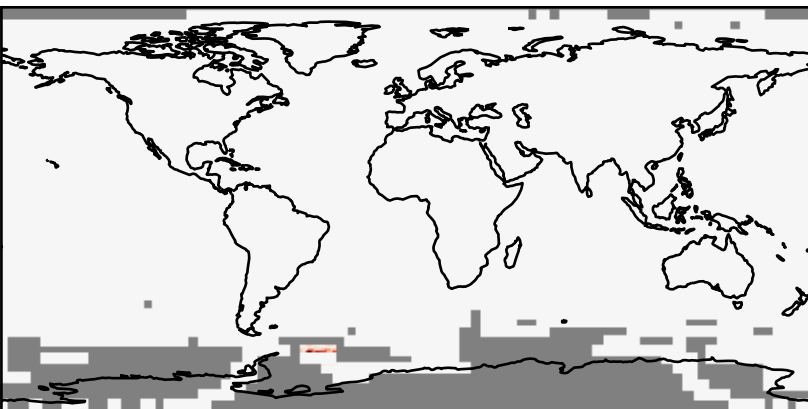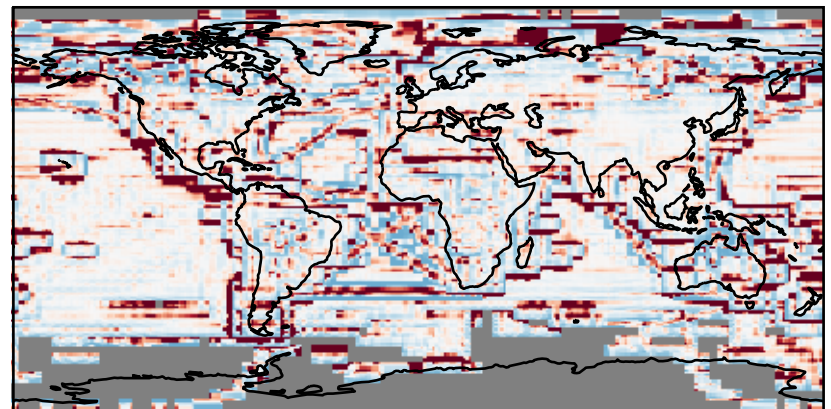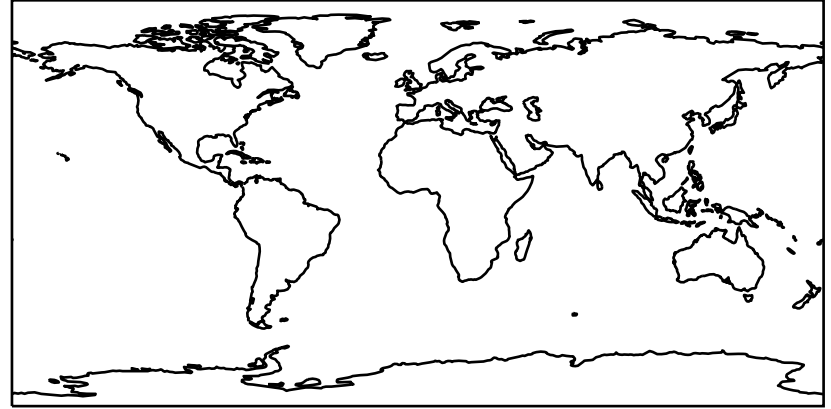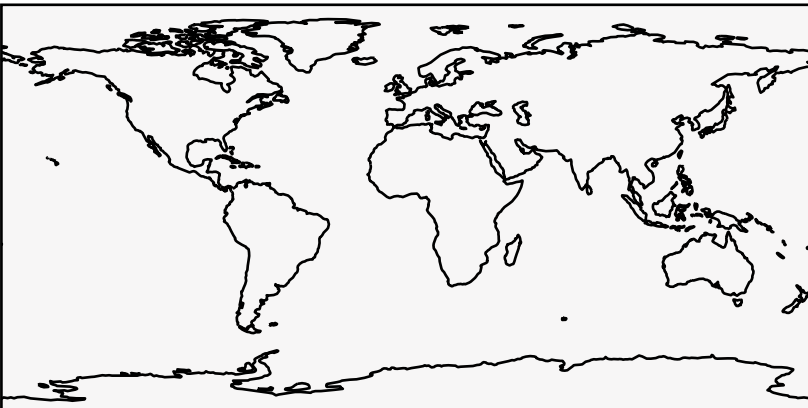# EmisC2H6_Total

EmisC2H4_Anthro

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
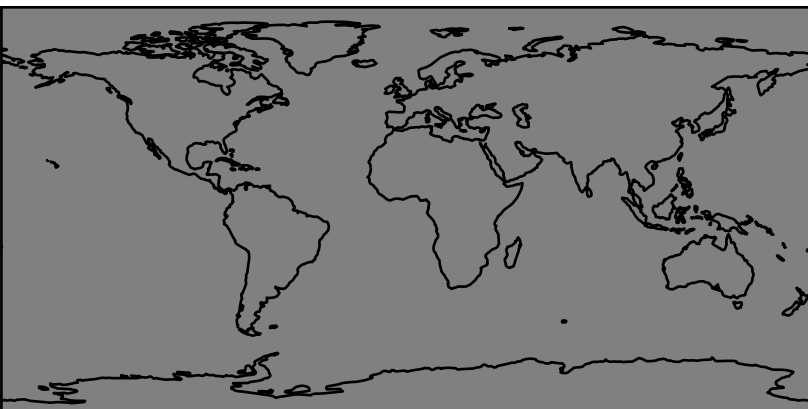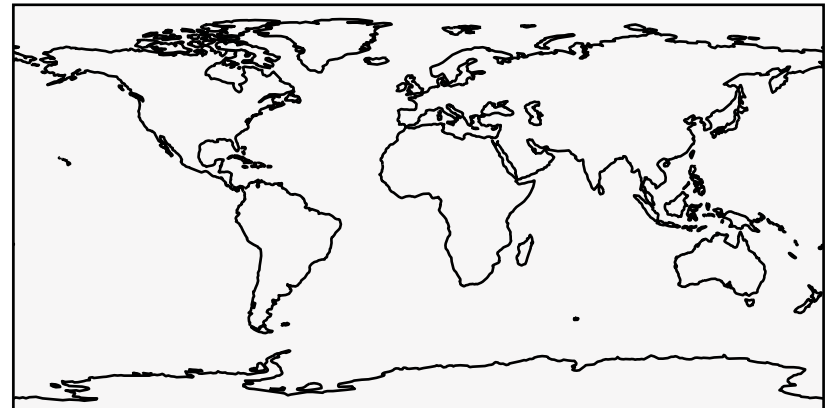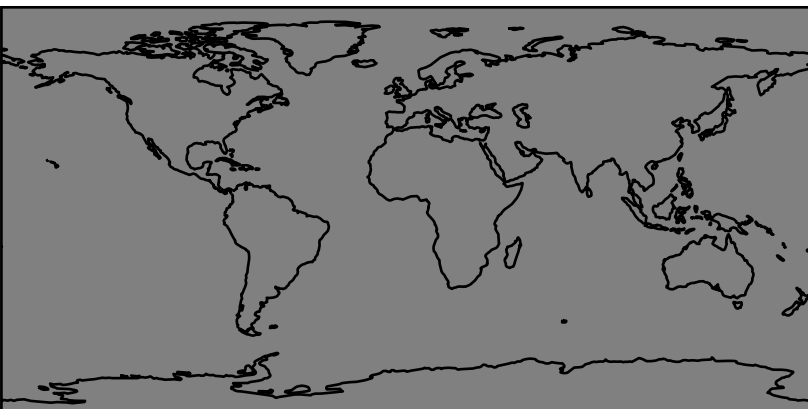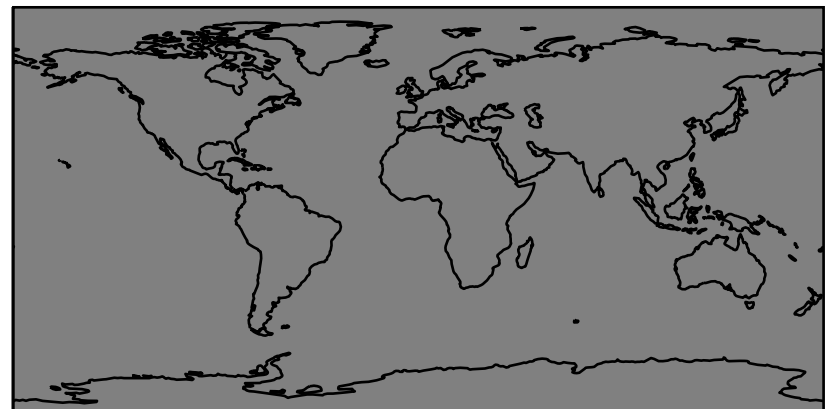Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

Fractional Difference (1x1.25)
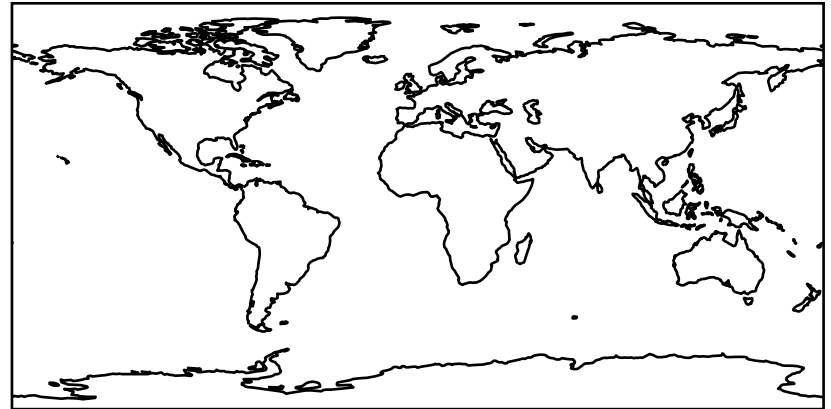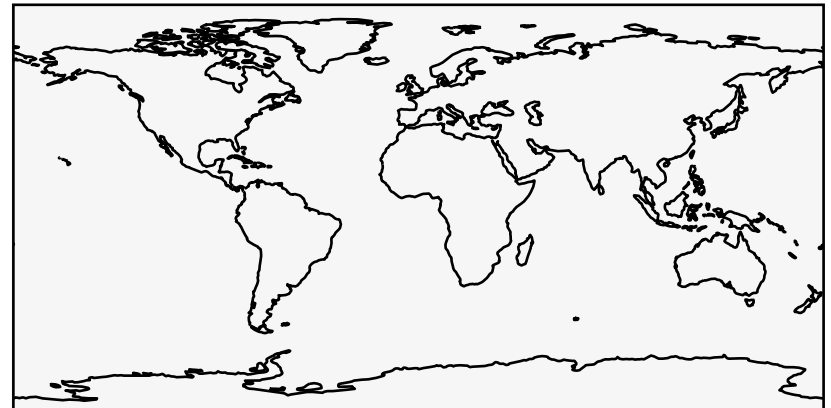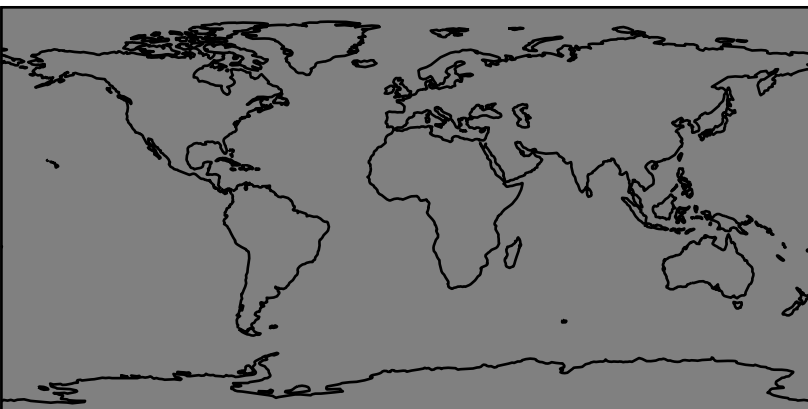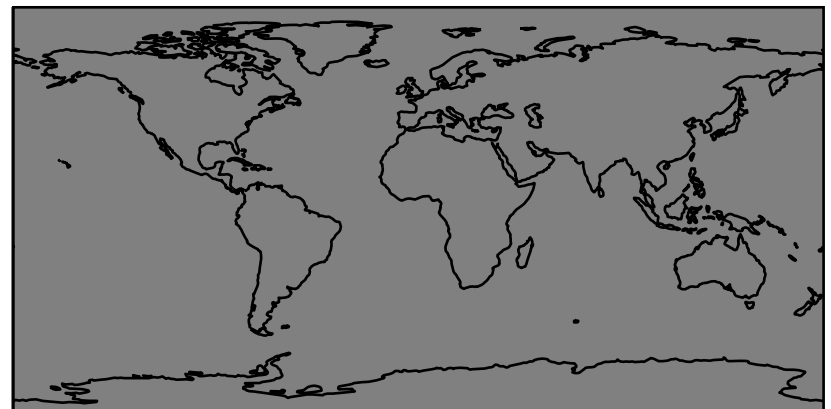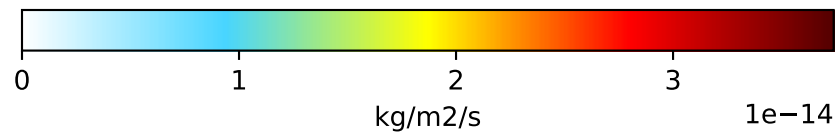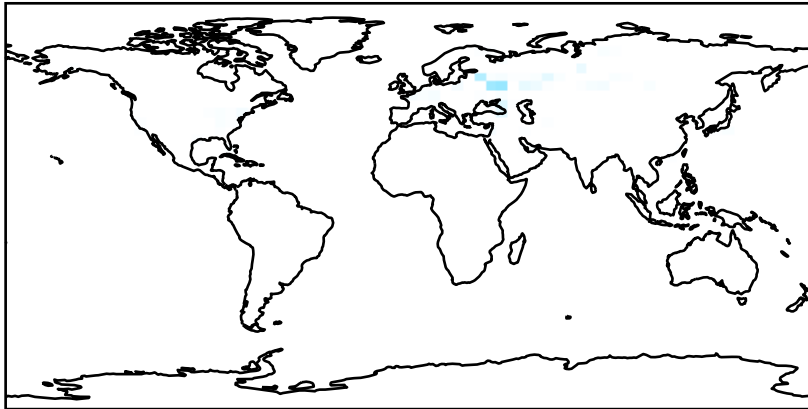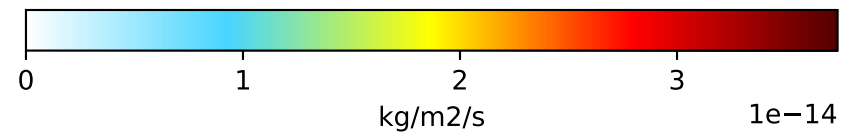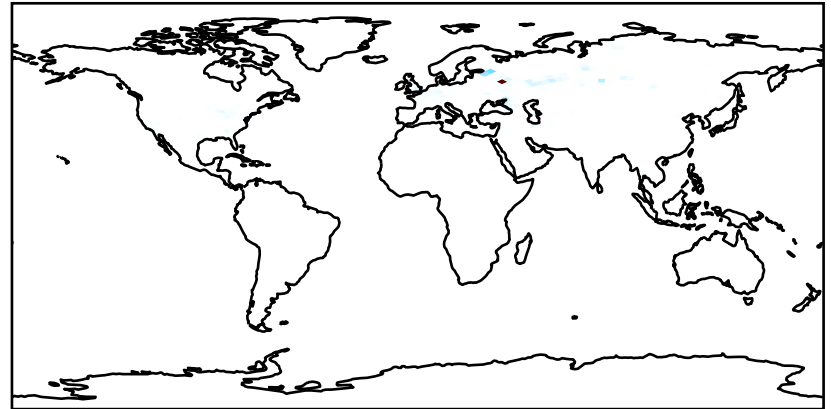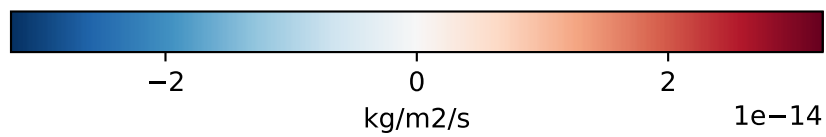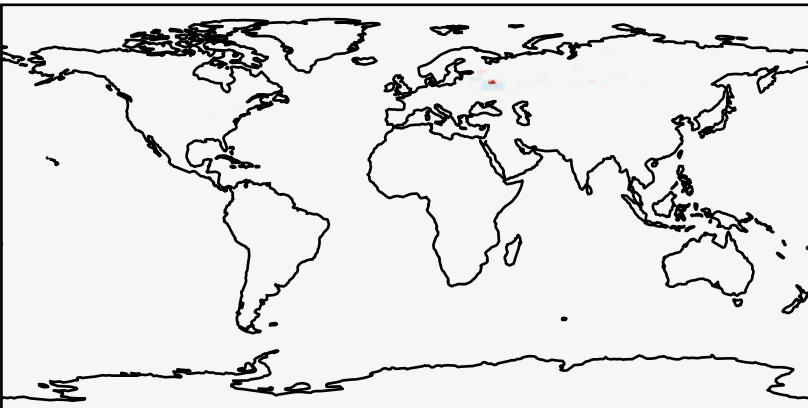(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
unitless

Undefined throughout domain
unitless

EmisC2H4_Biogenic

EmisC2H4_Ship

| GC_12.7.0 (Ref) | GCHP_12.7.0 (Dev) |
| 4x5 | c48 |

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s
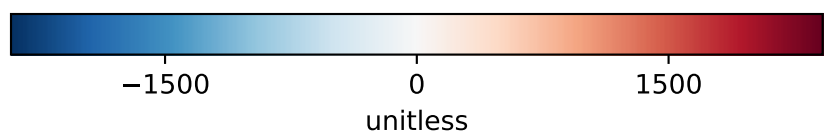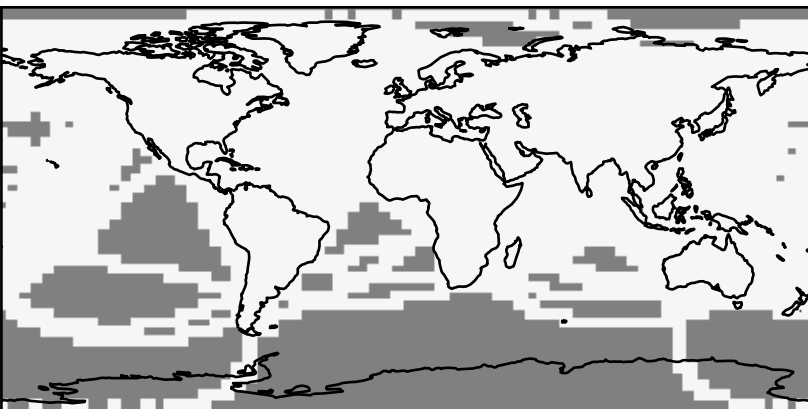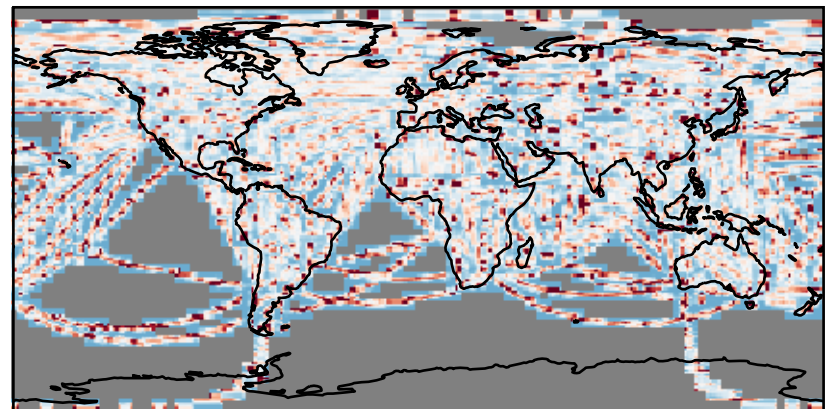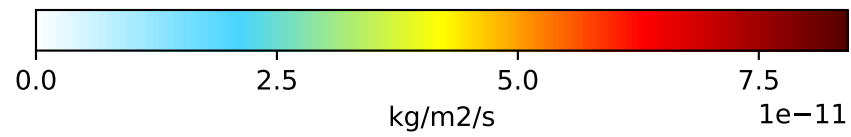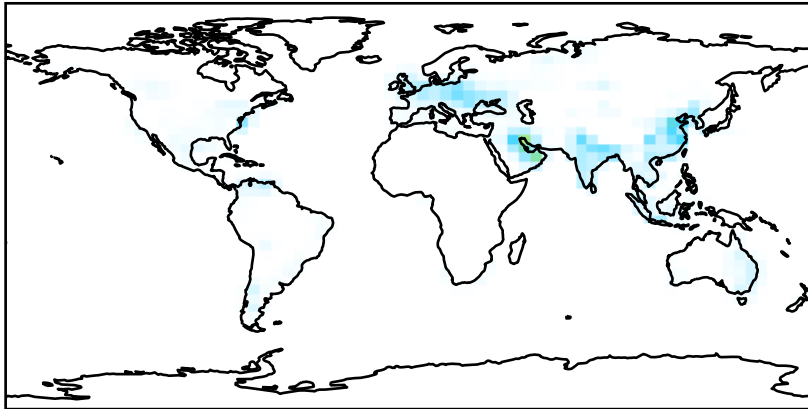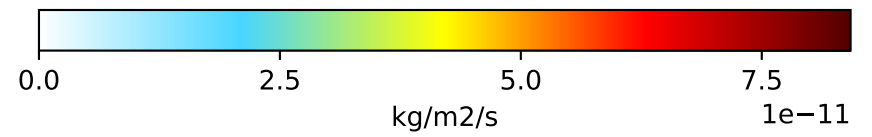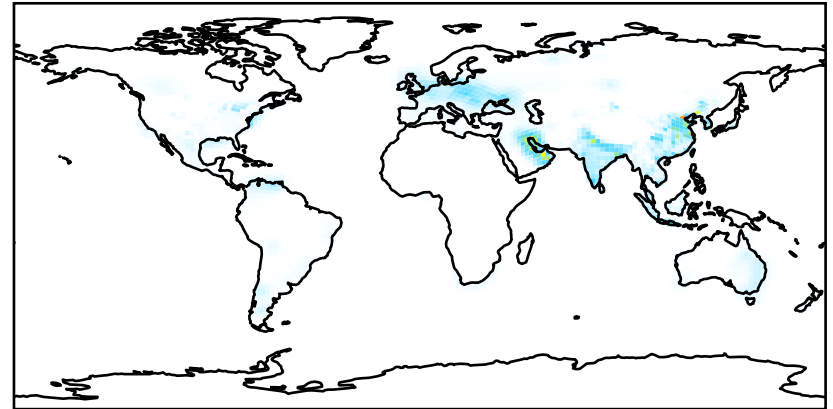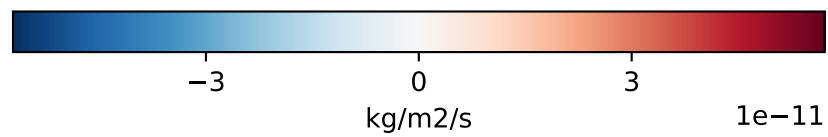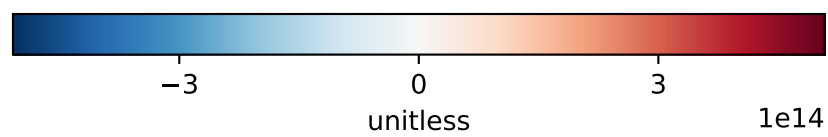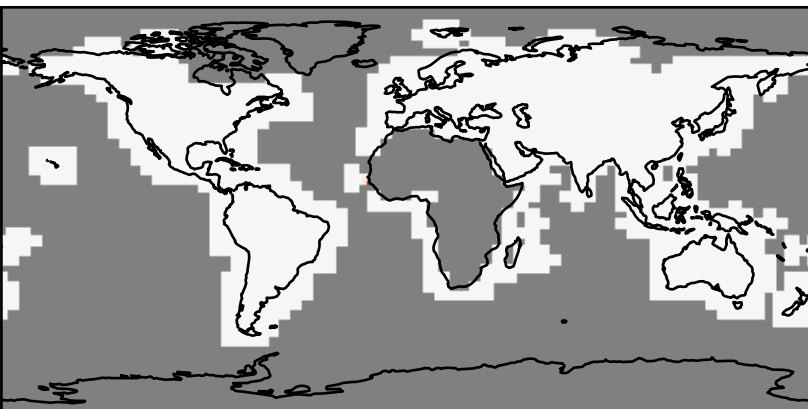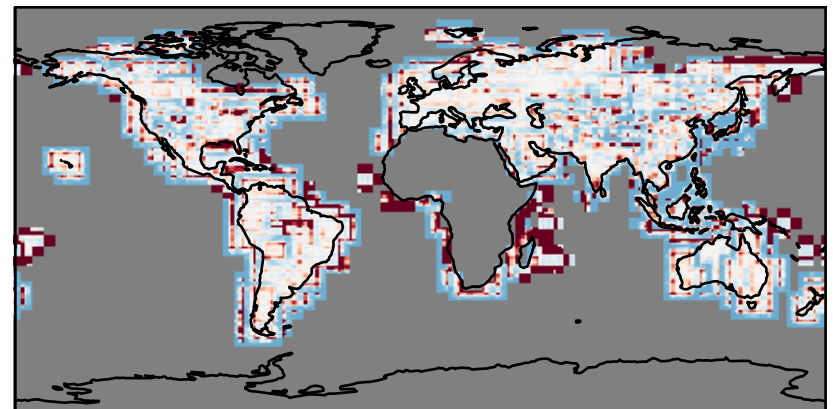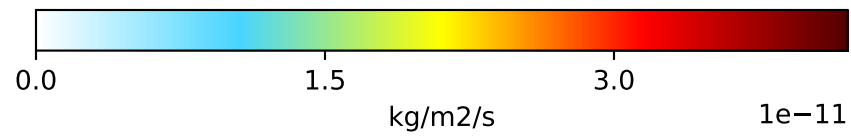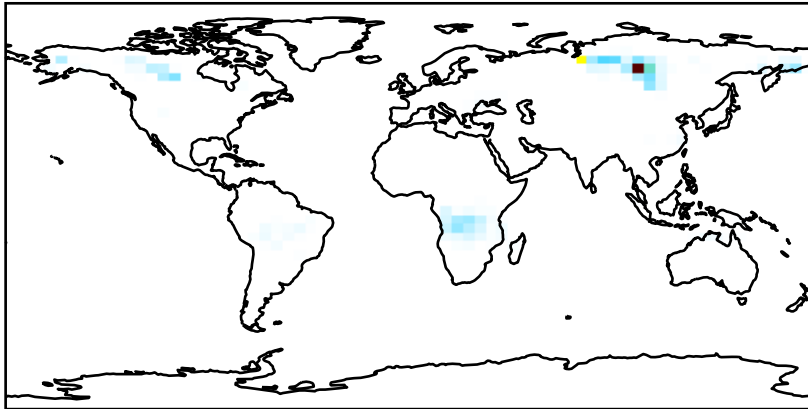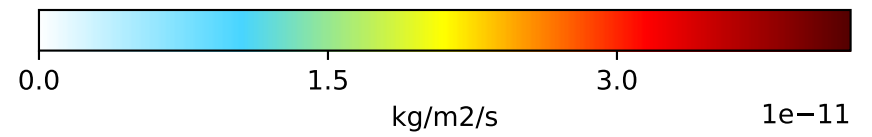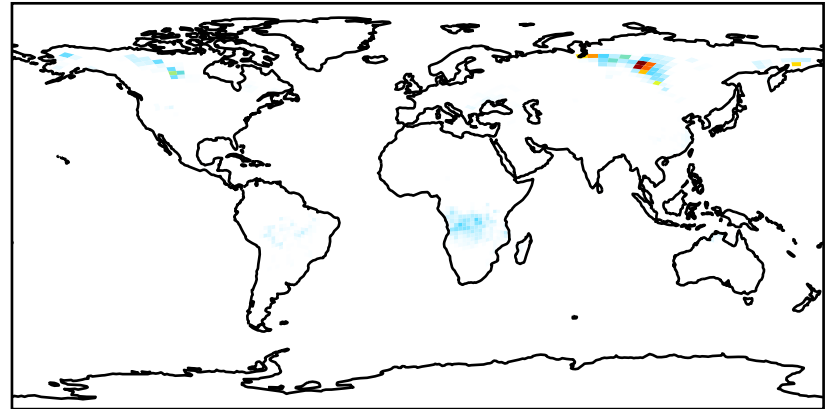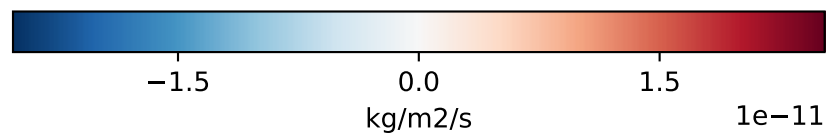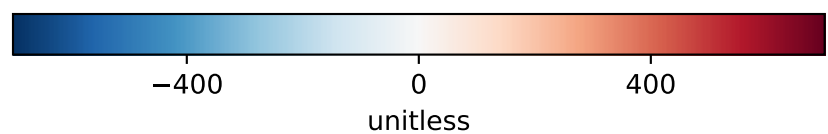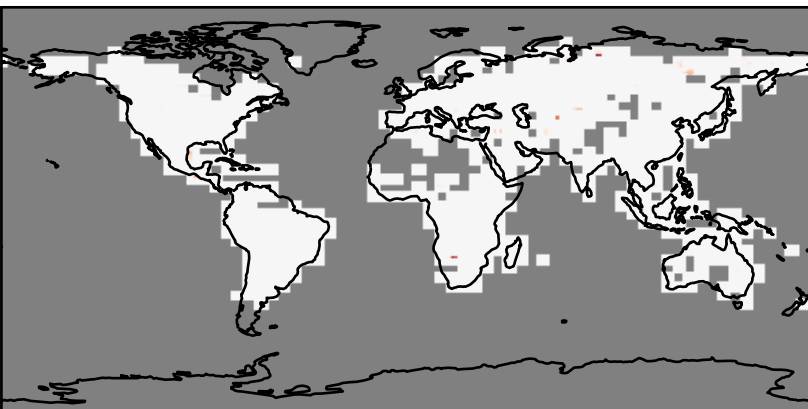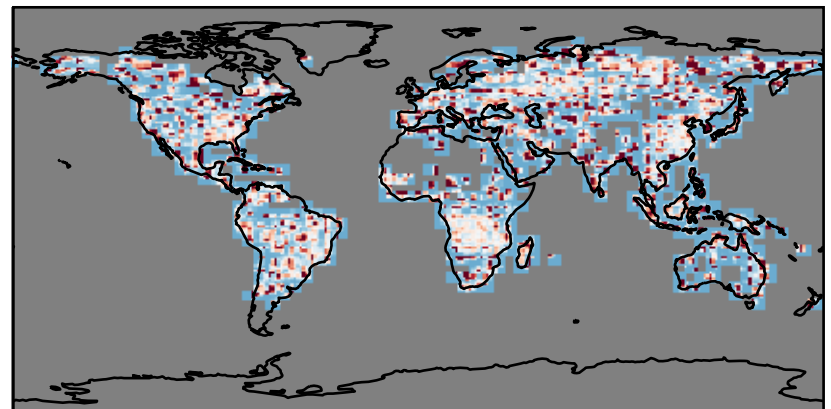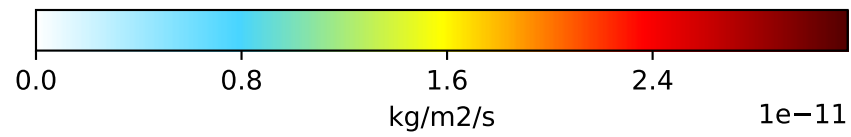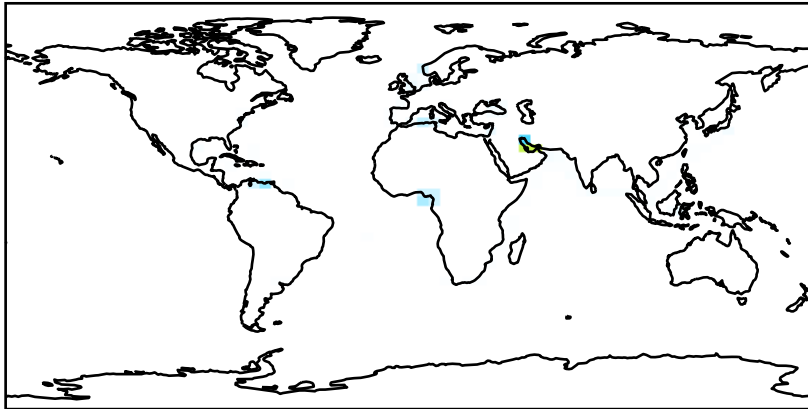
Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range
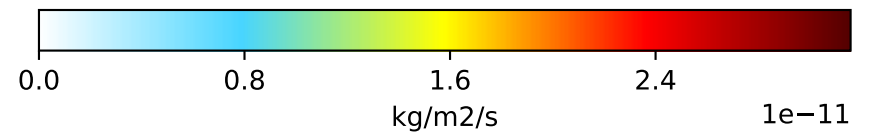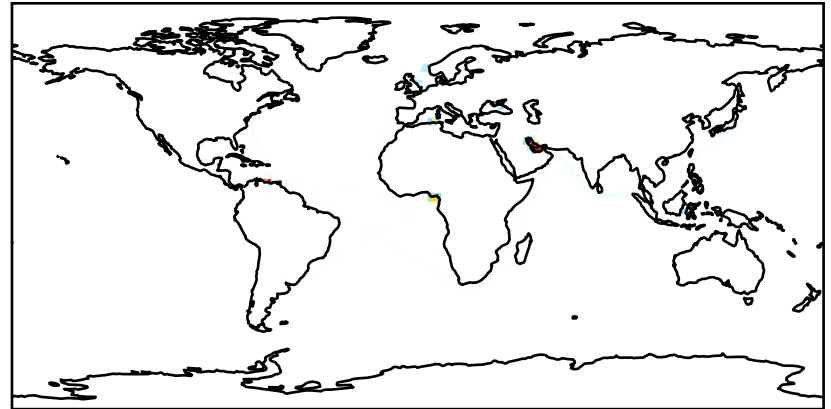
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
unitless

Undefined throughout domain
unitless

EmisC2H4_Total

EmisC3H8_Aircraft

EmisC3H8_Anthro

EmisC3H8_BioBurn

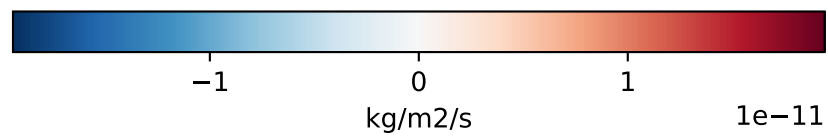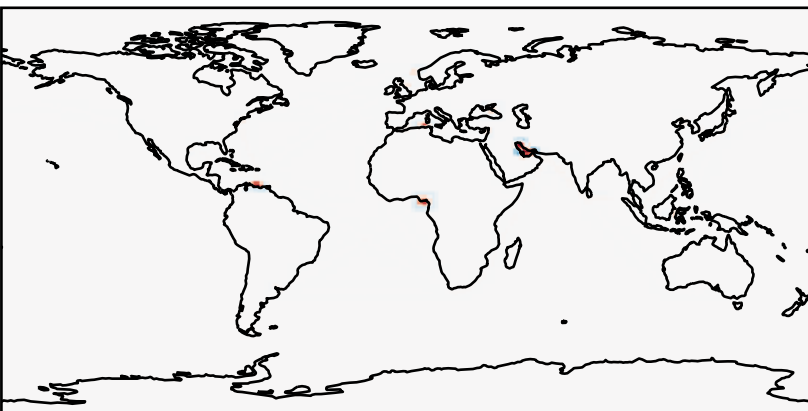# EmisC3H8_Ship

EmisC3H8_Total

EmisPRPE_Aircraft

EmisPRPE_Anthro
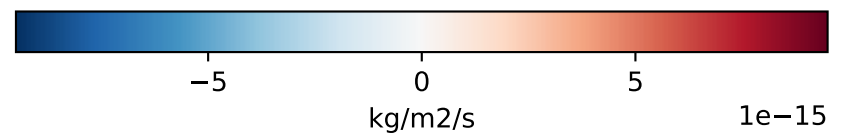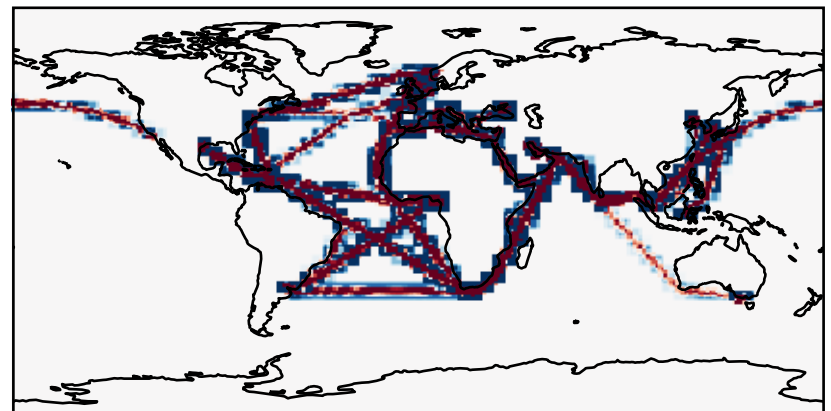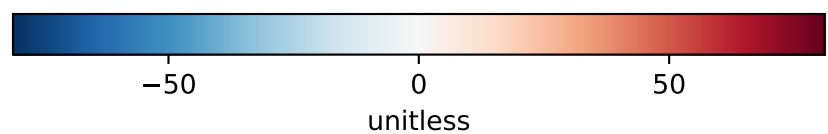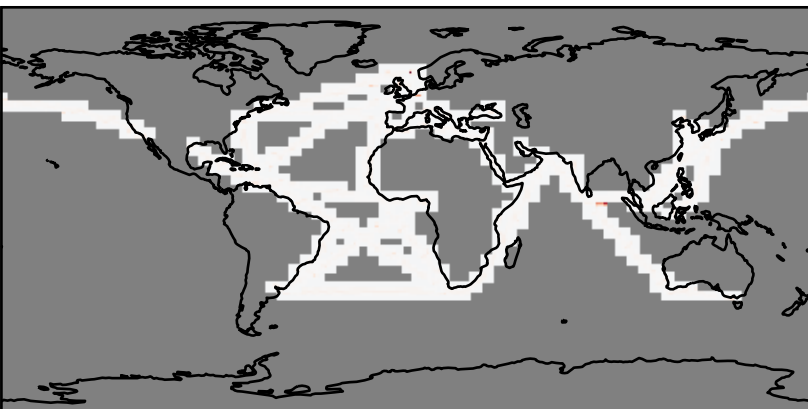
EmisPRPE_BioBurn

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

kg/m2/s

Difference (1x1.25)
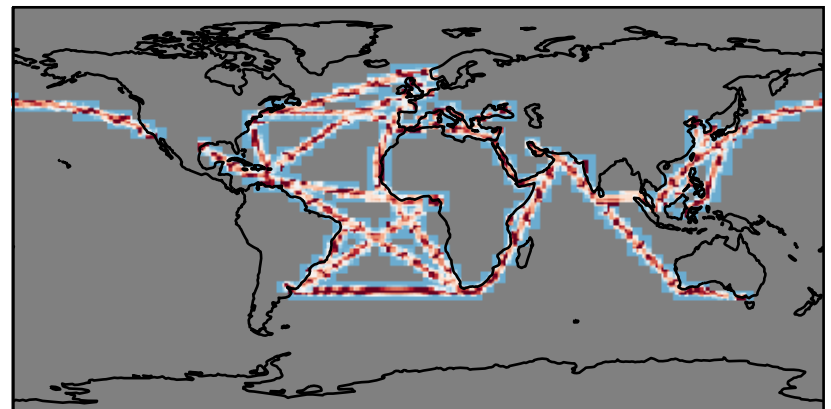Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

kg/m2/s

Fractional Difference (1x1.25)
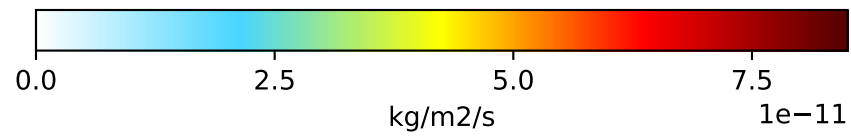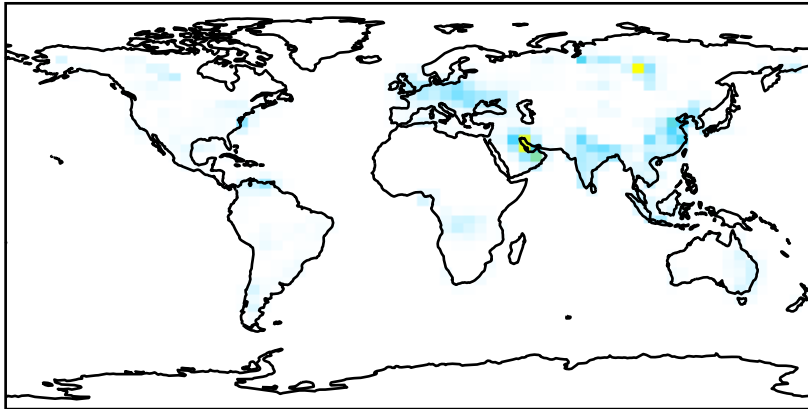(Dev-Ref)/Ref, Dynamic Range
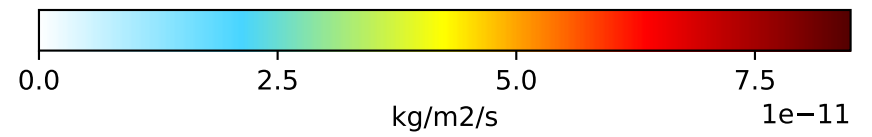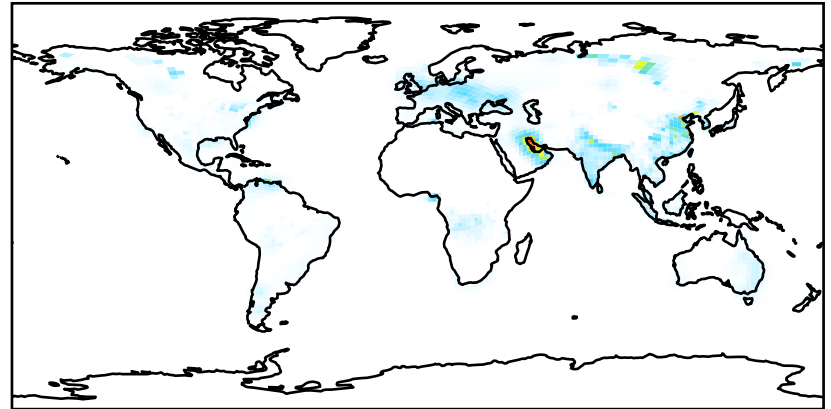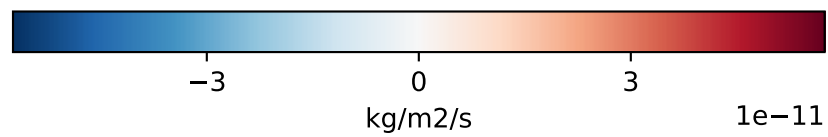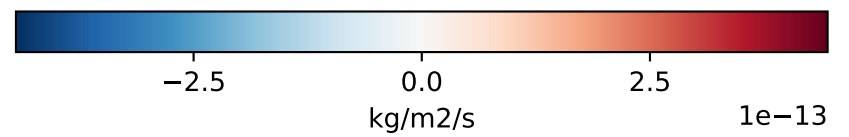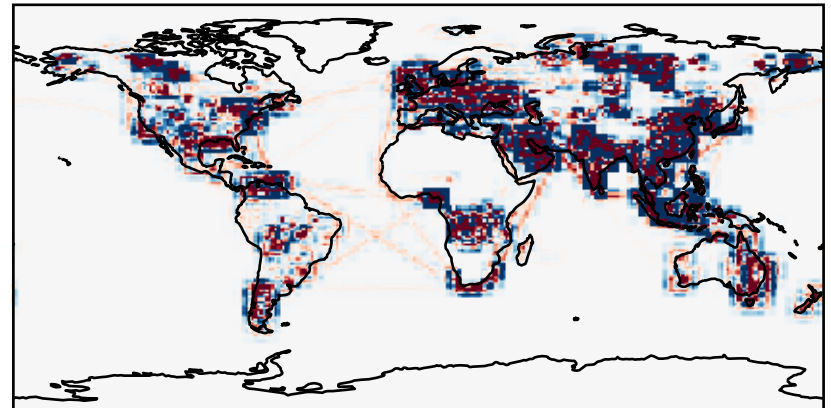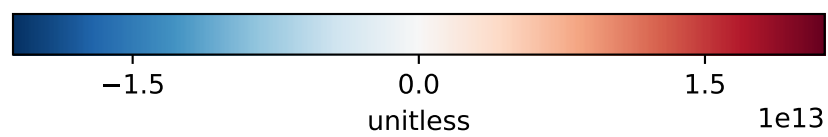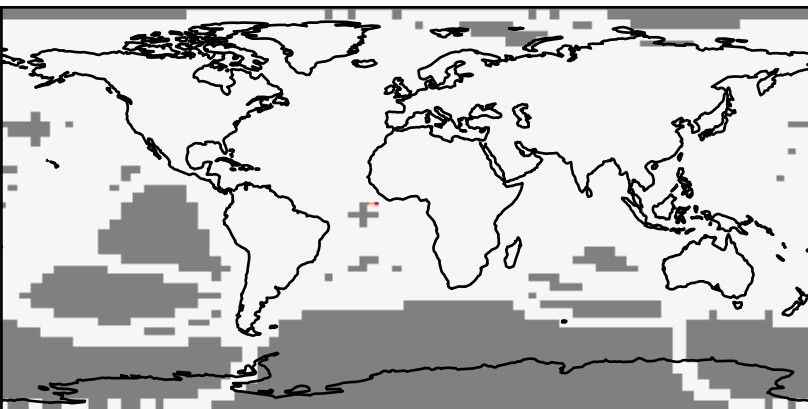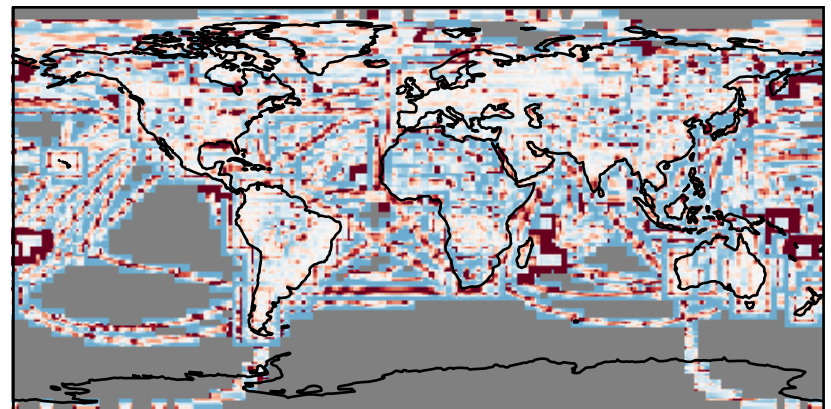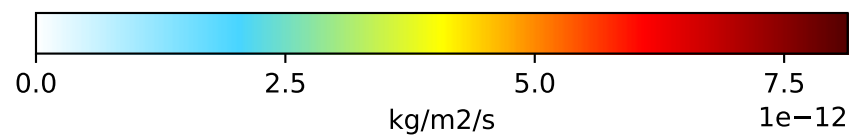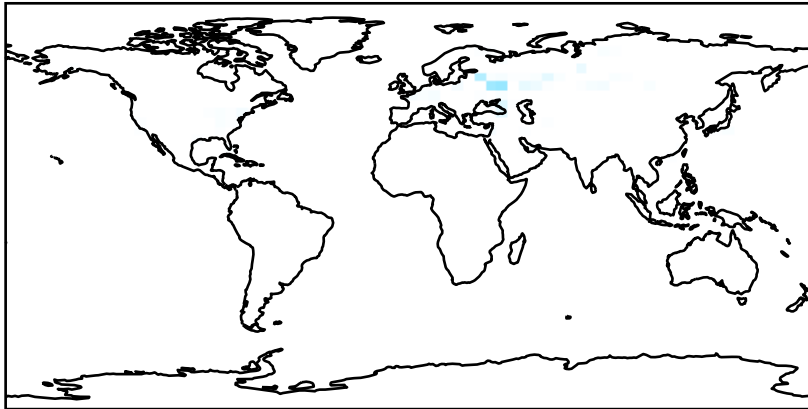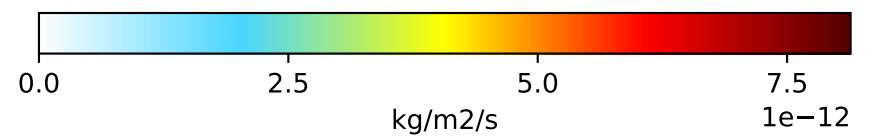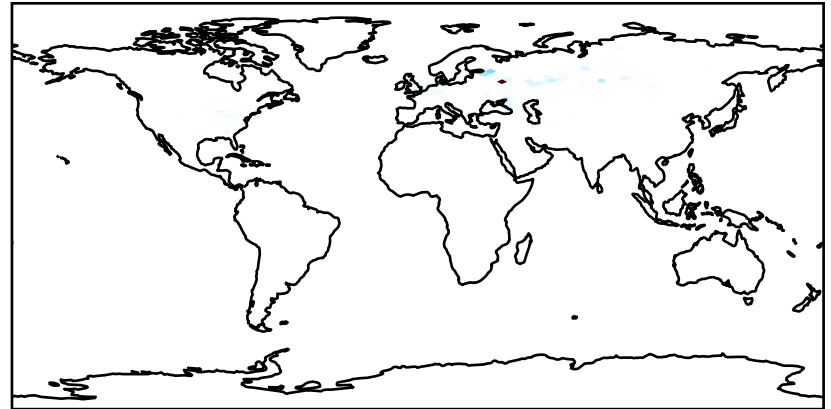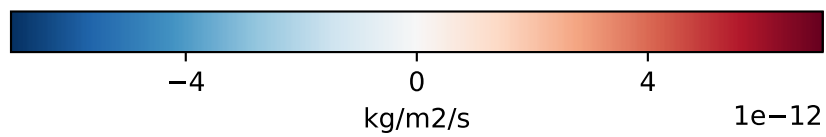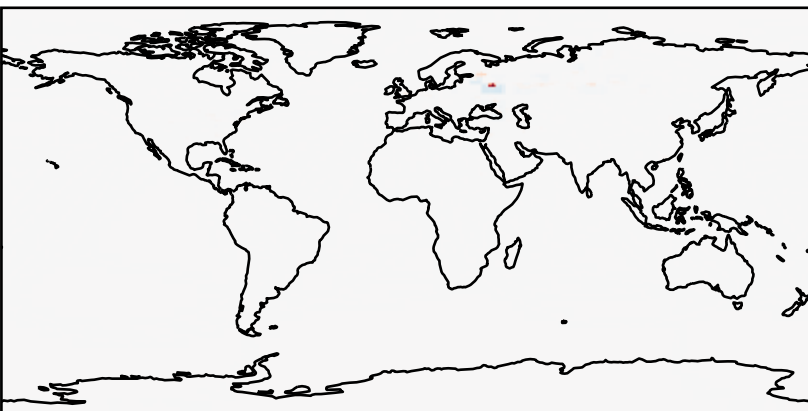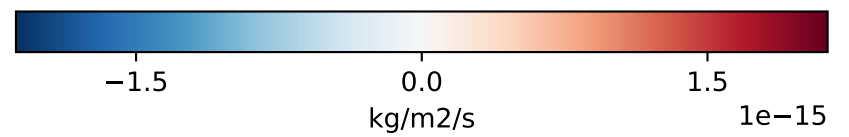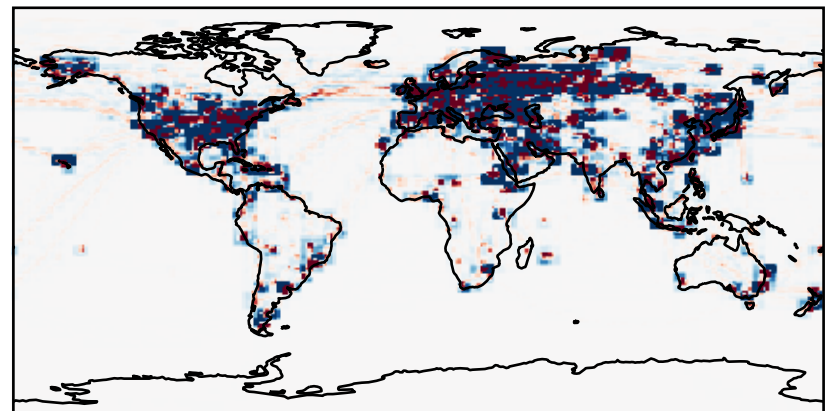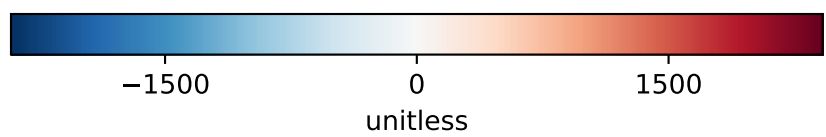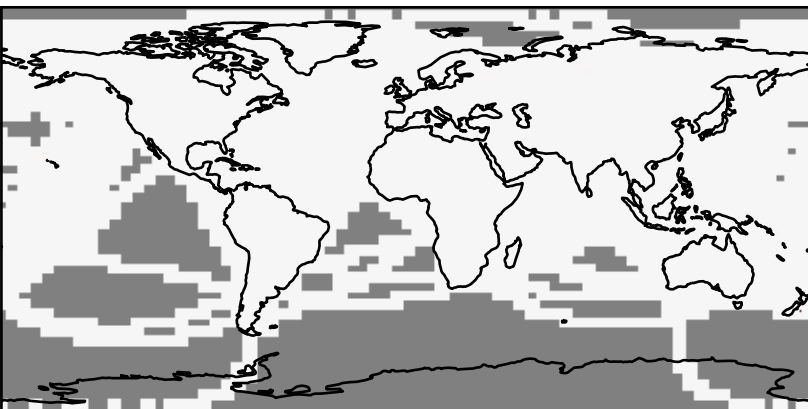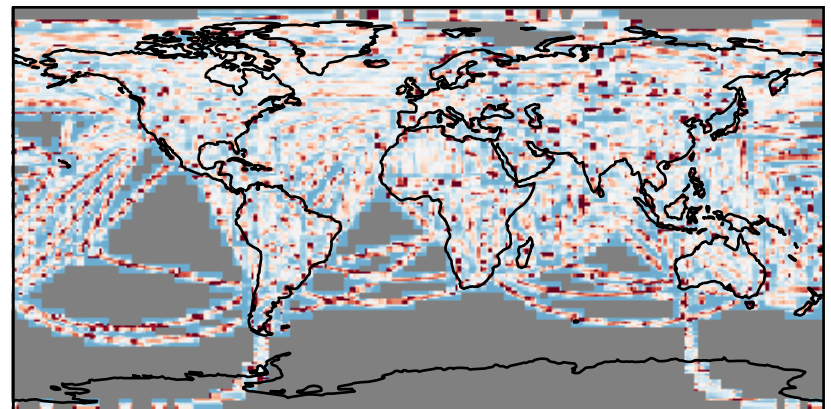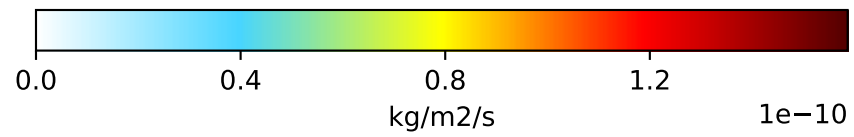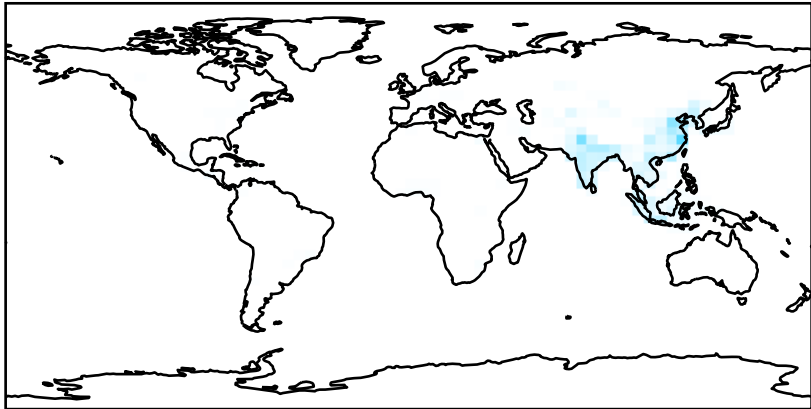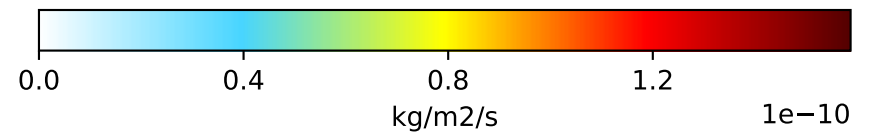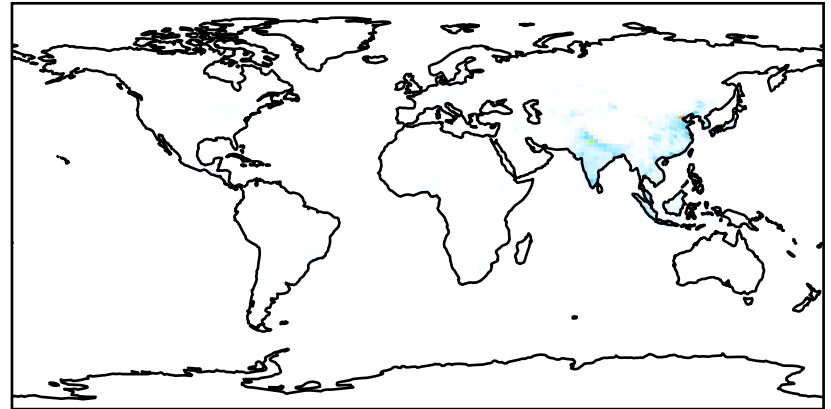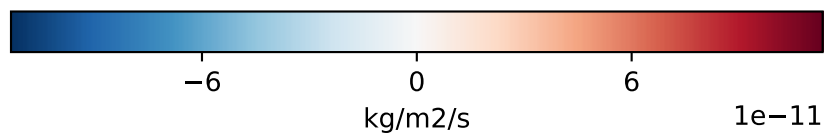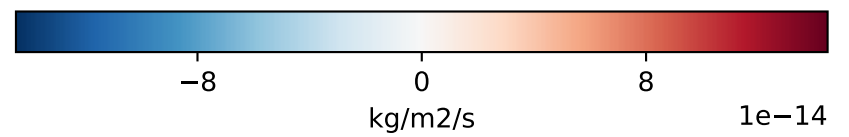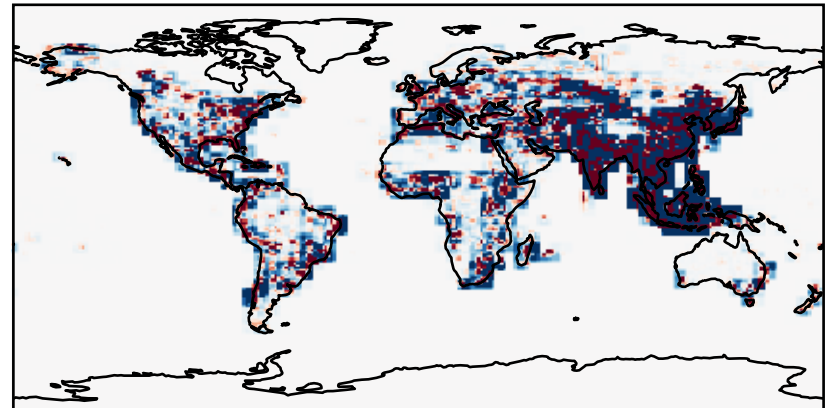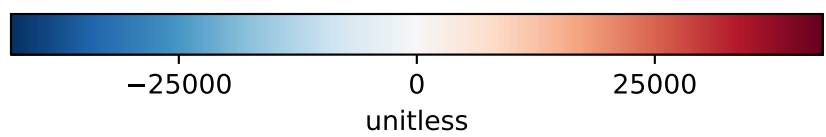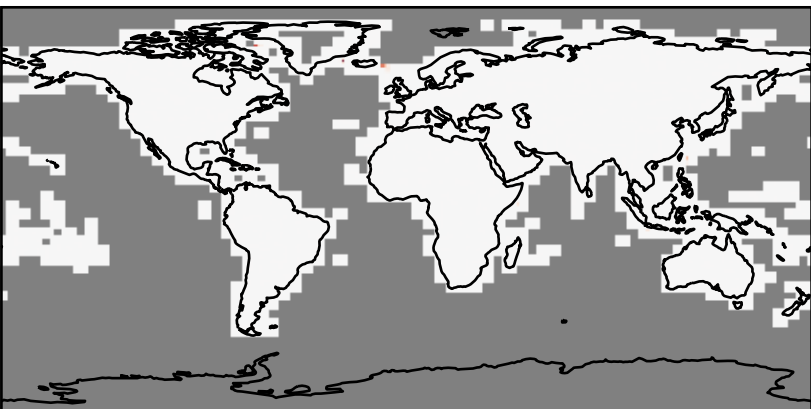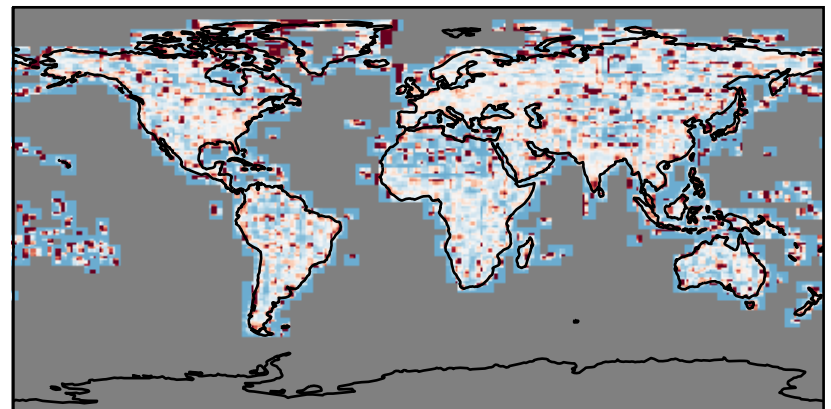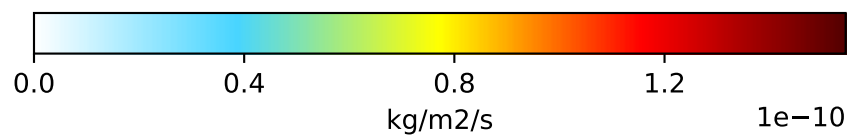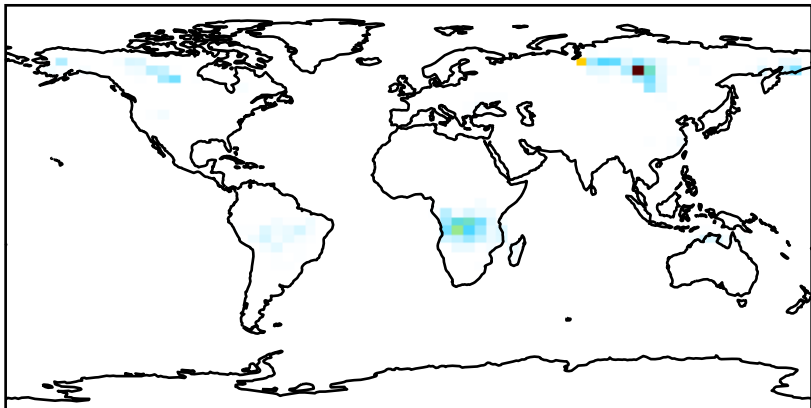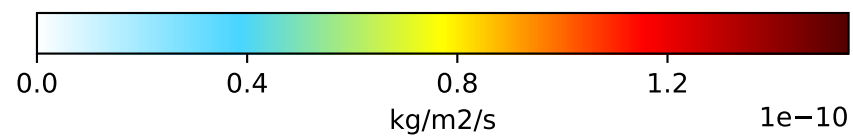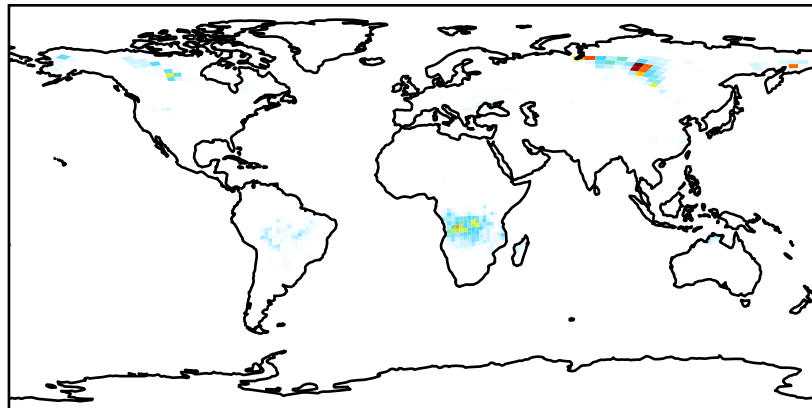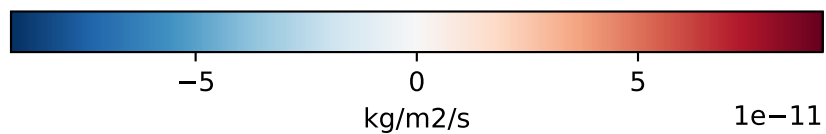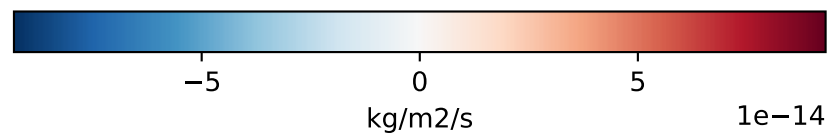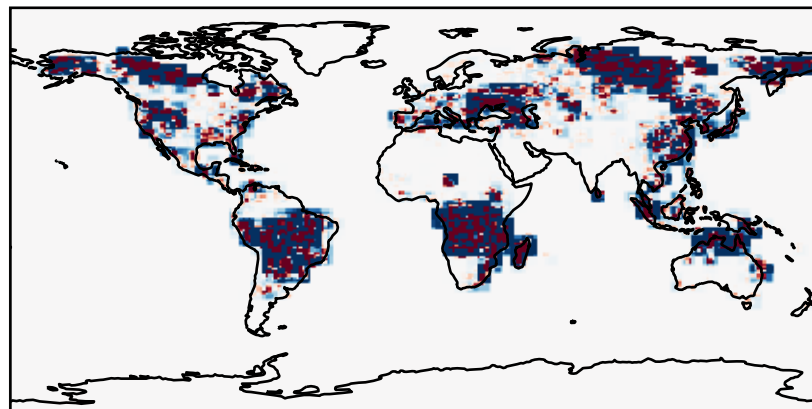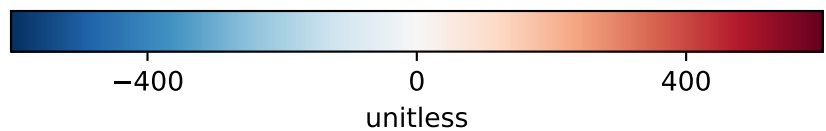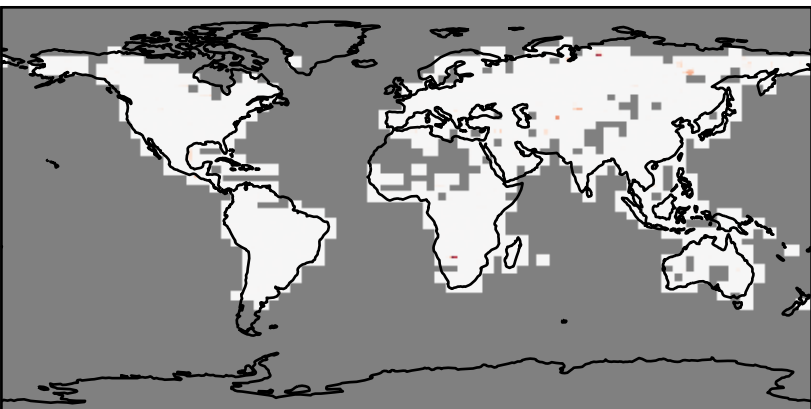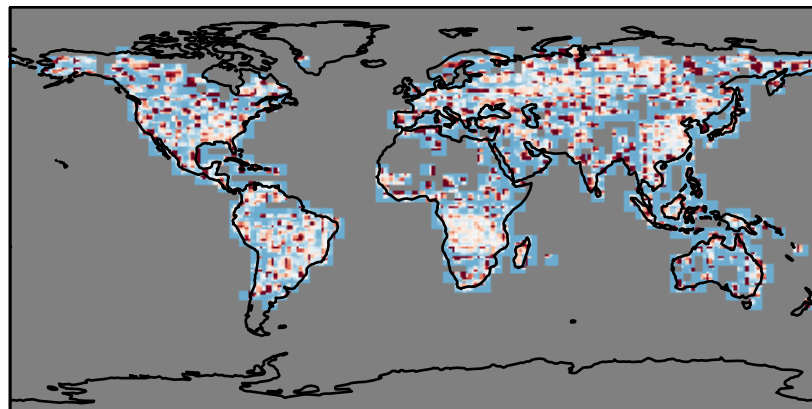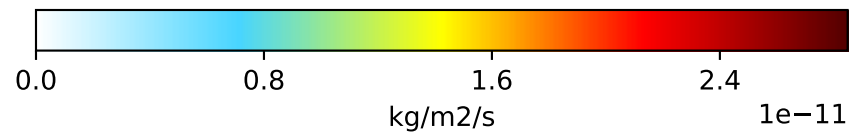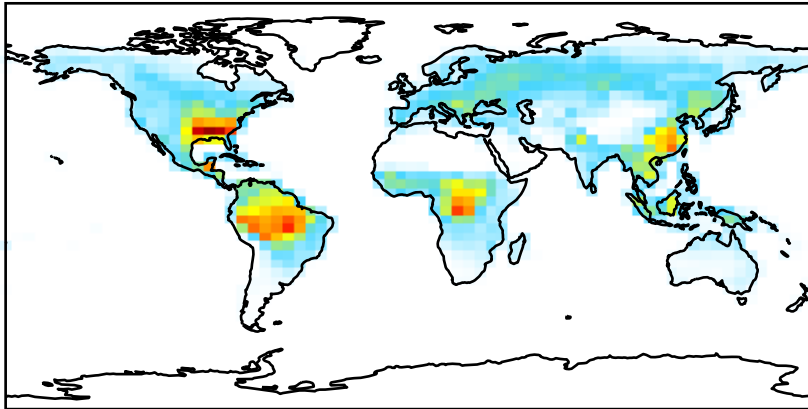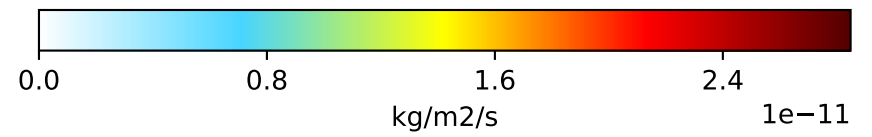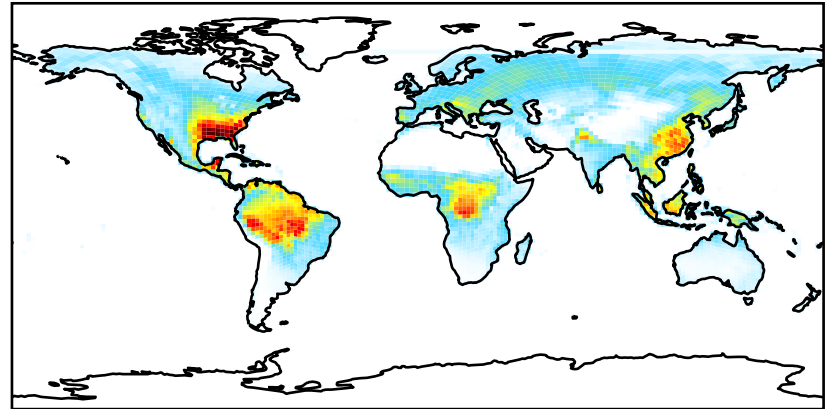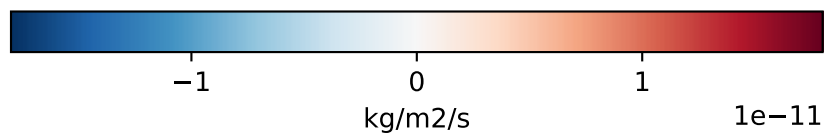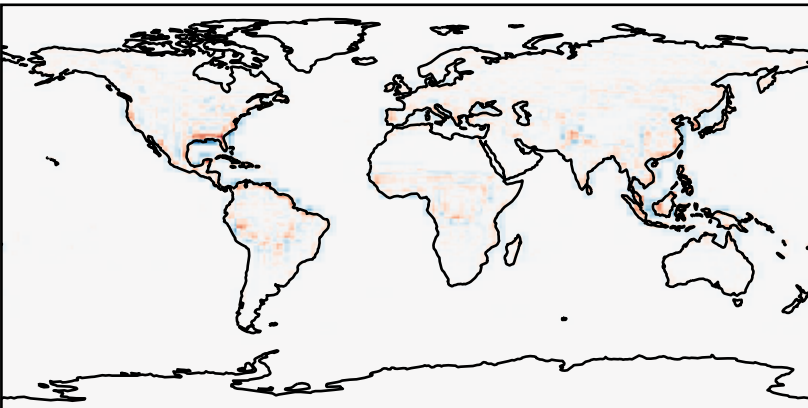
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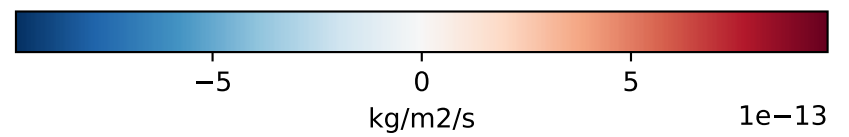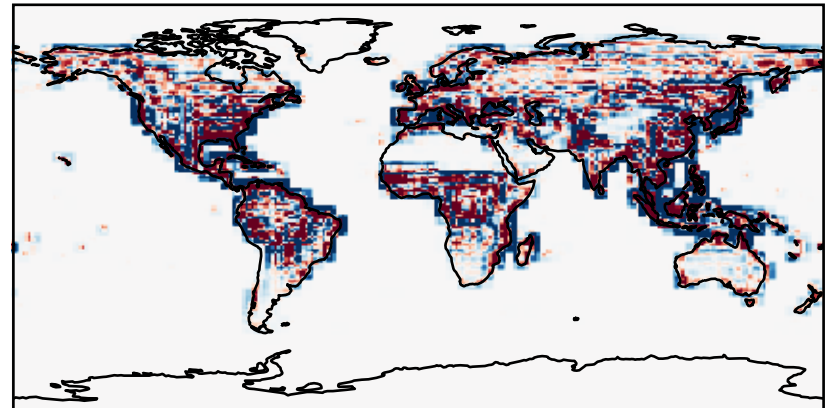(Dev-Ref)/Ref, Fixed Range

unitless

EmisPRPE_Biogenic

GC_12.7.0 (Ref)
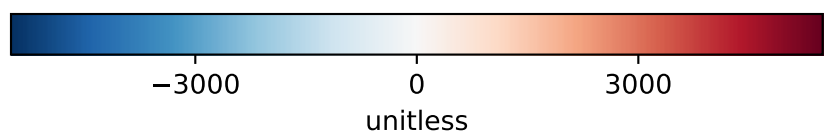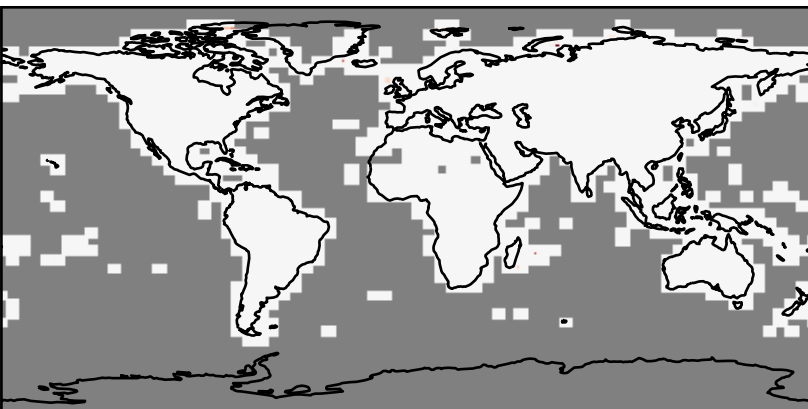4x5

GCHP_12.7.0 (Dev)
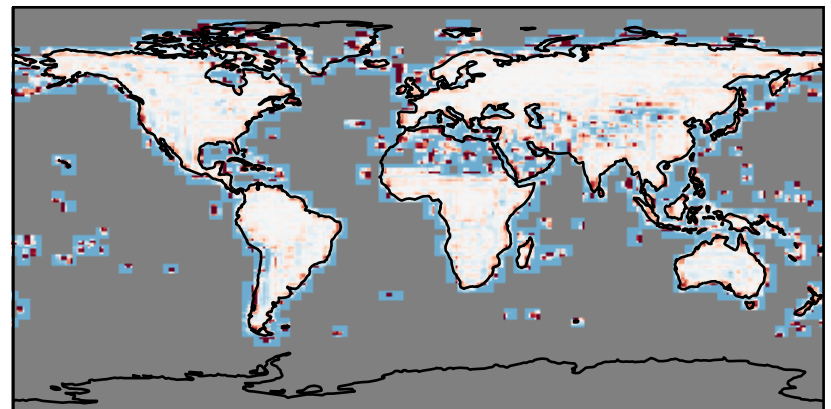c48

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

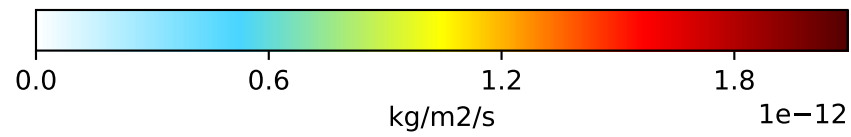Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

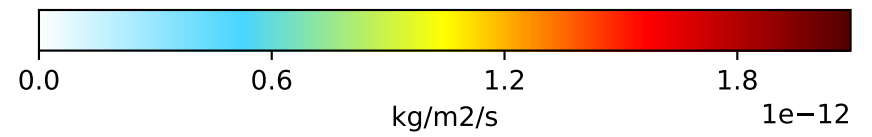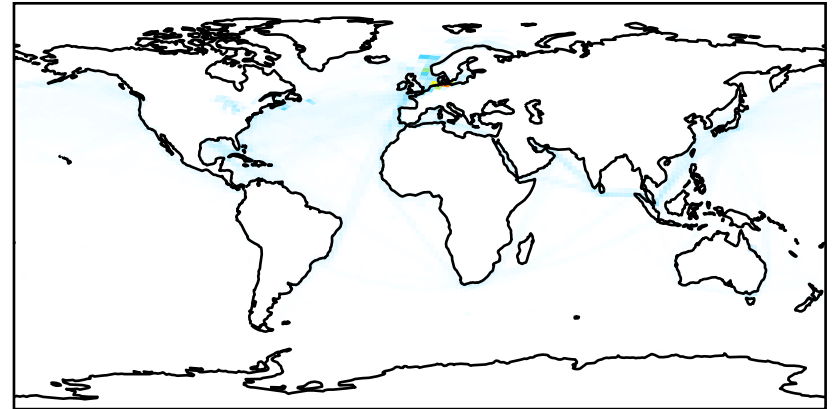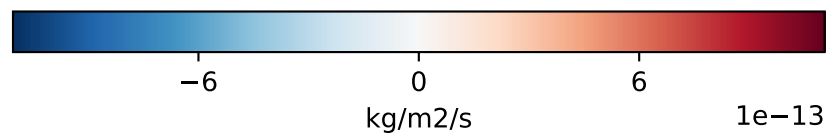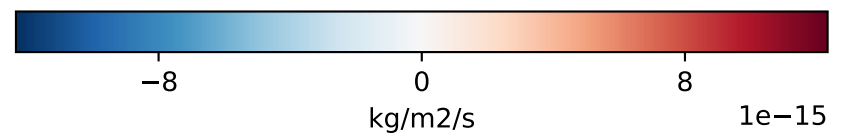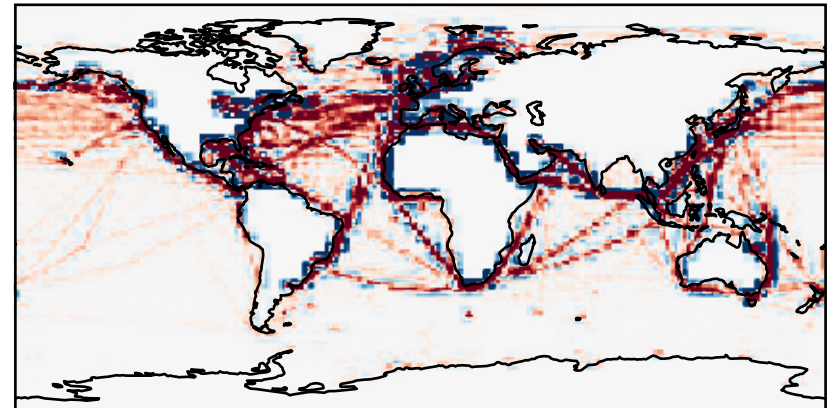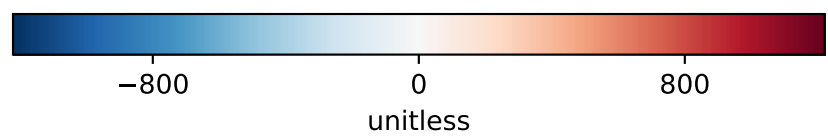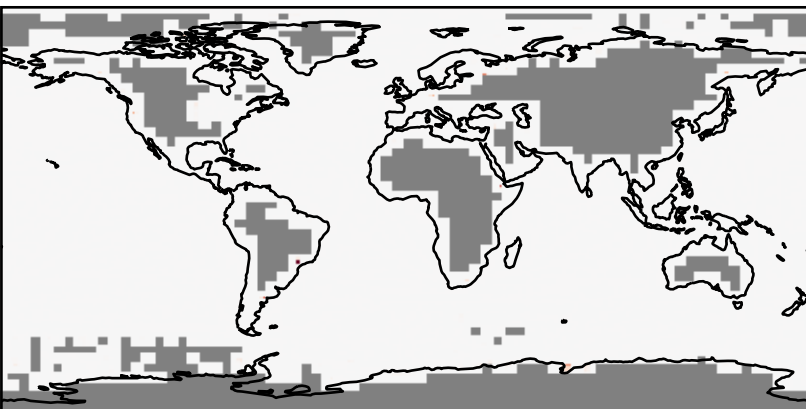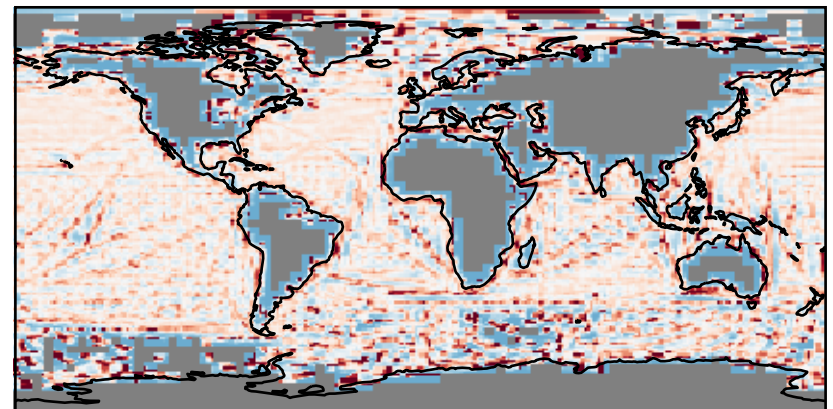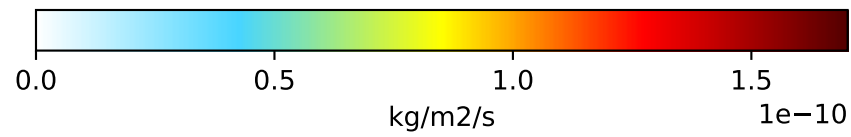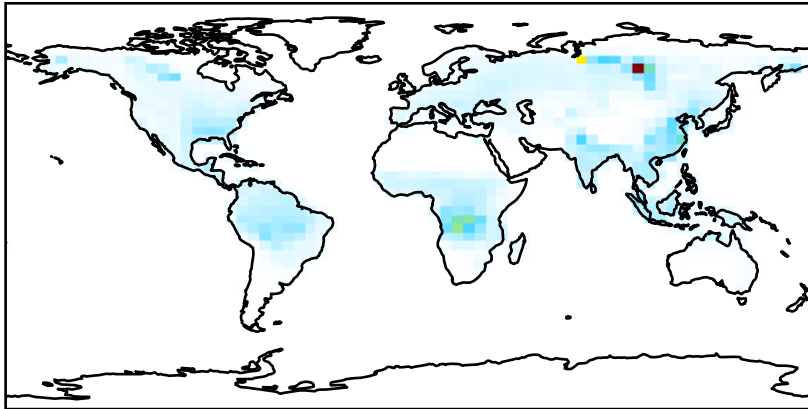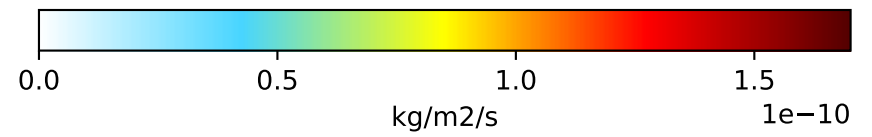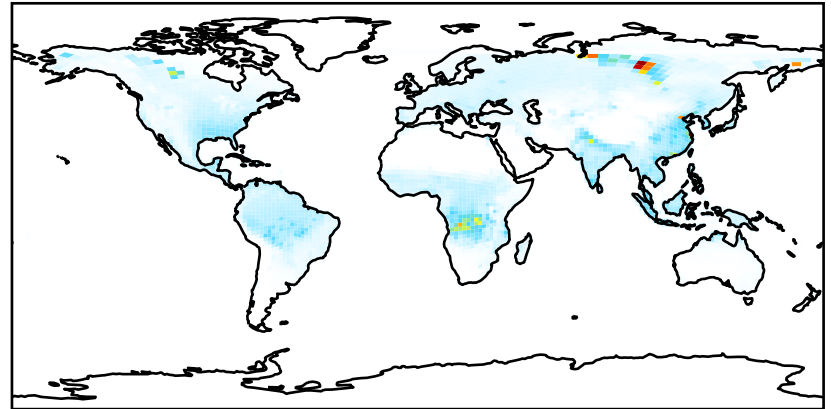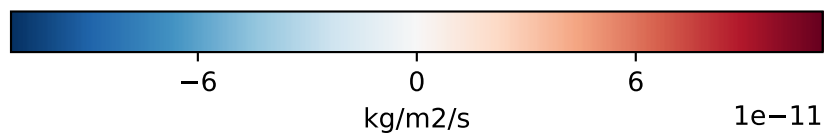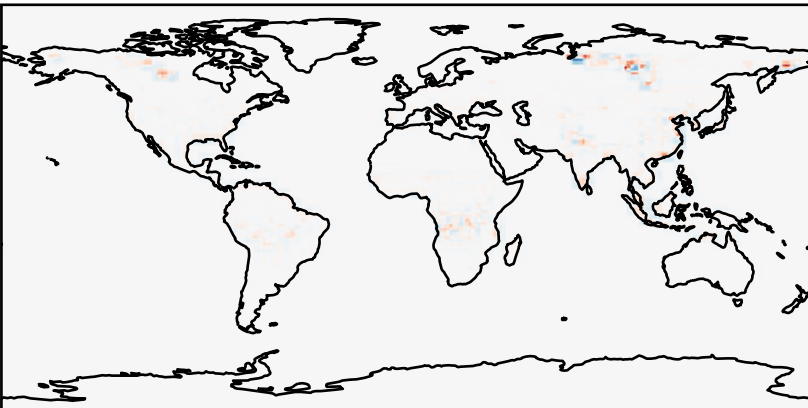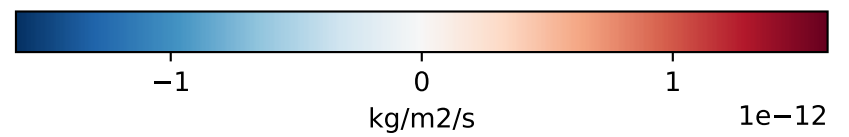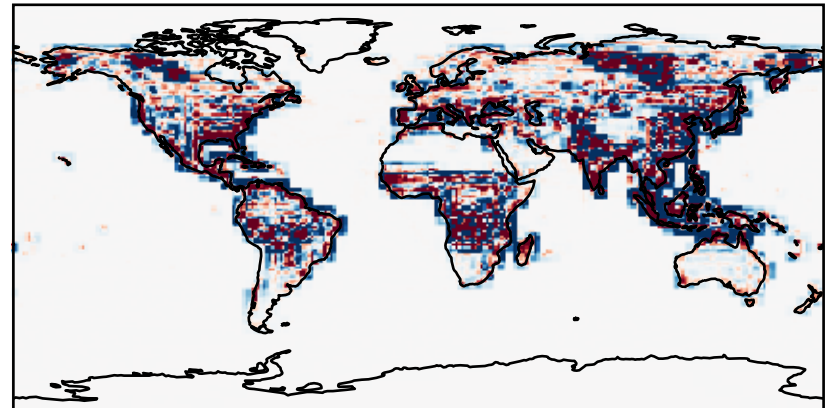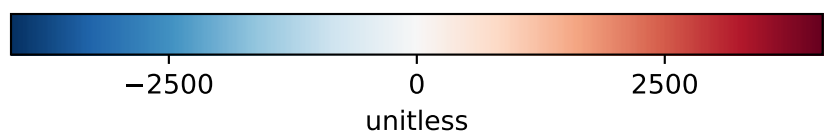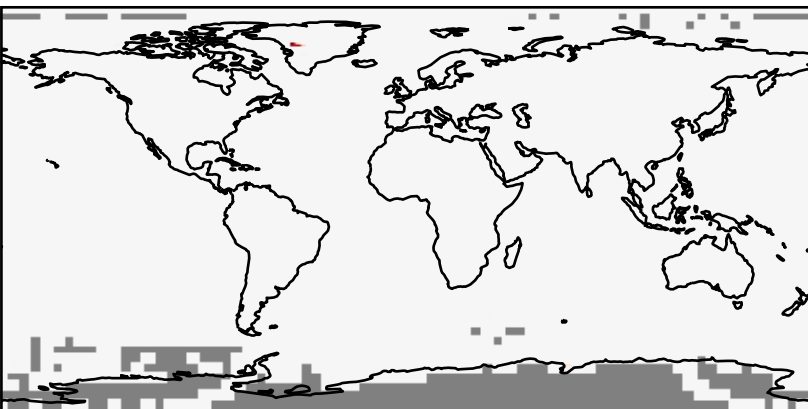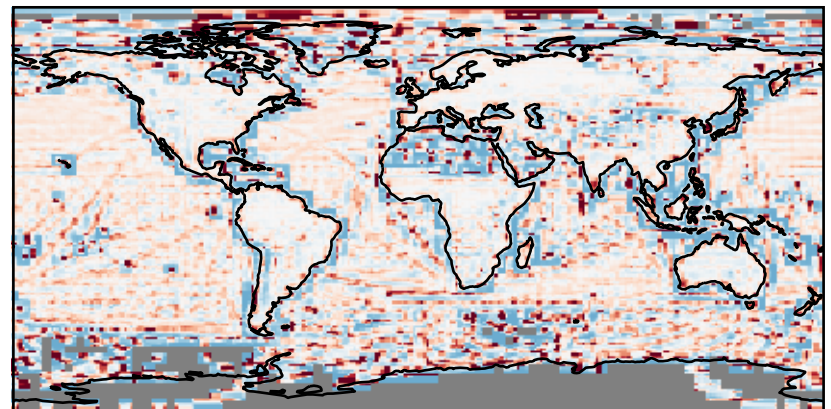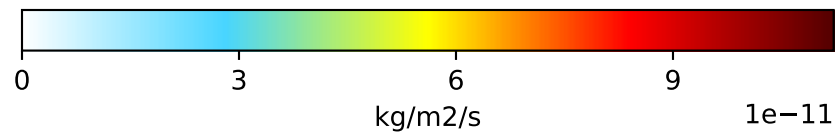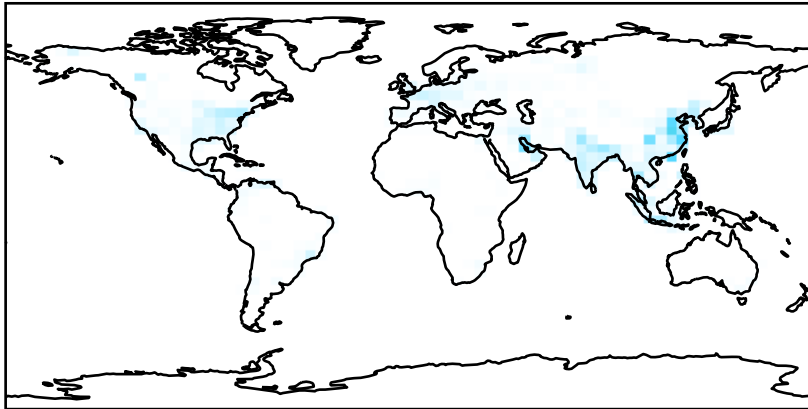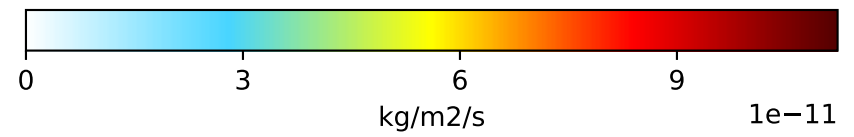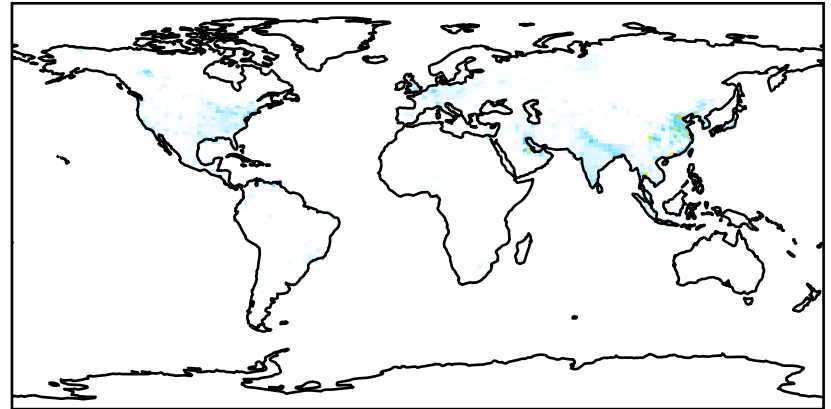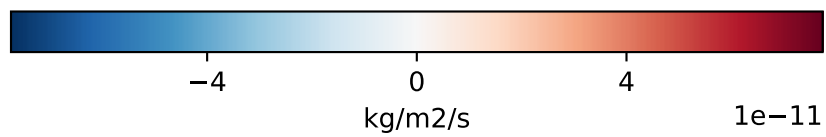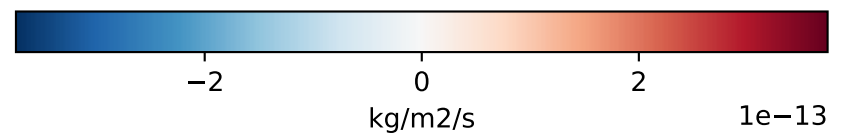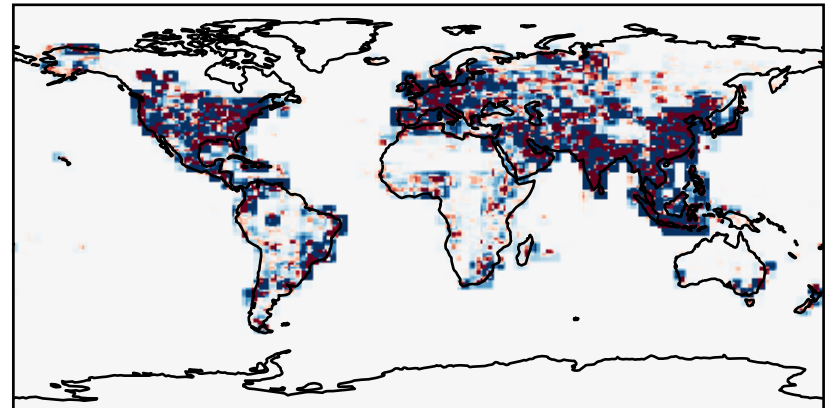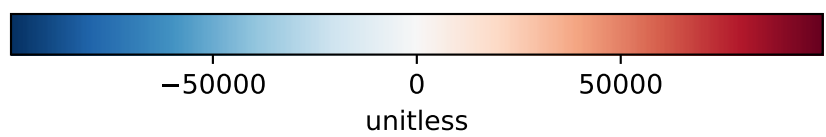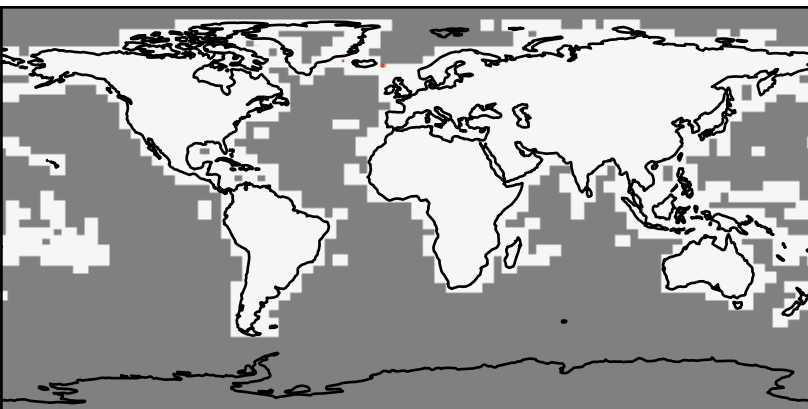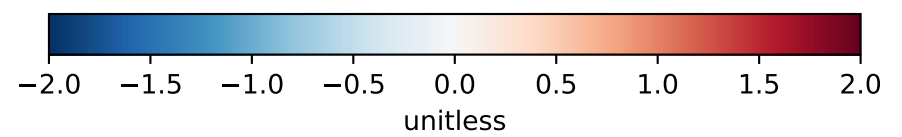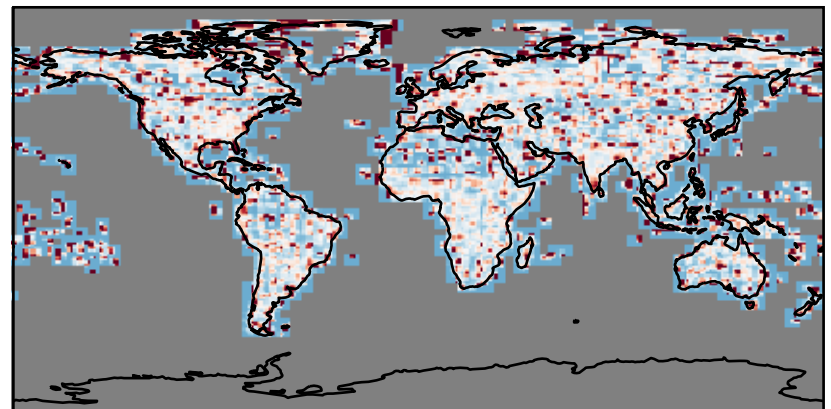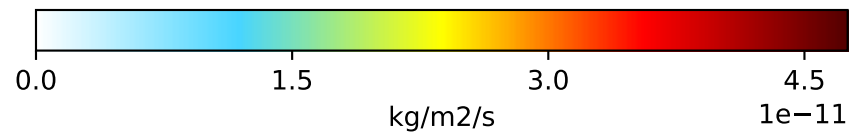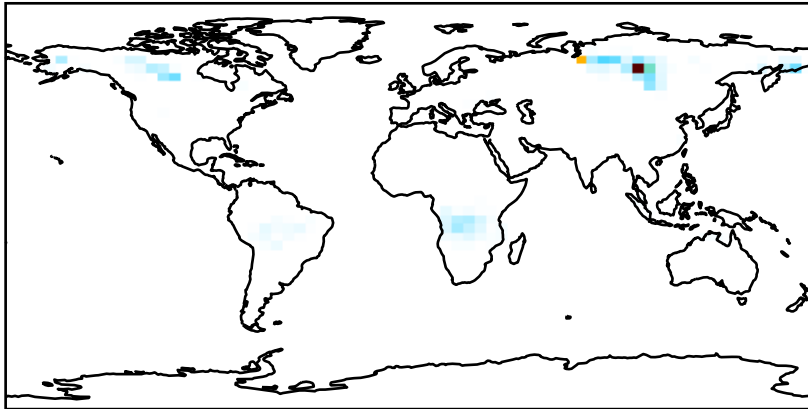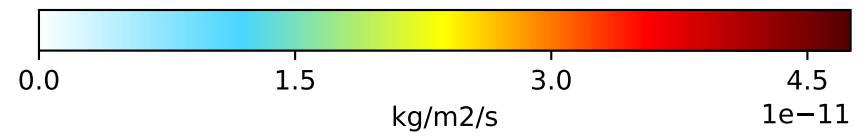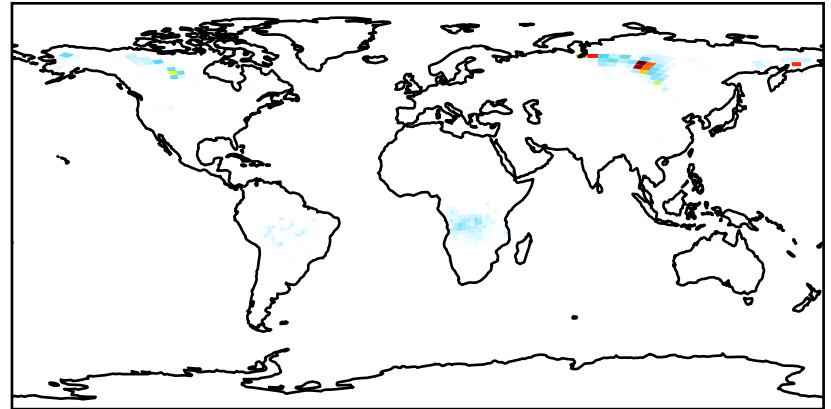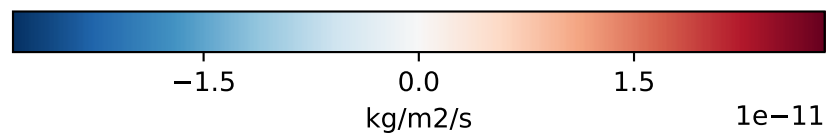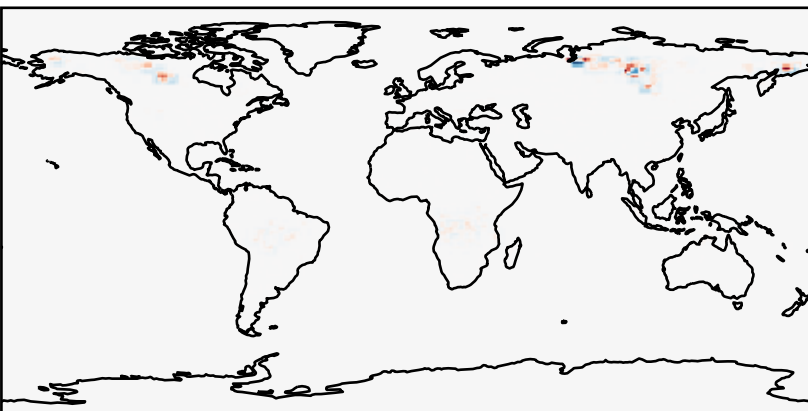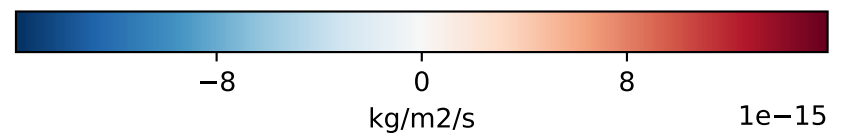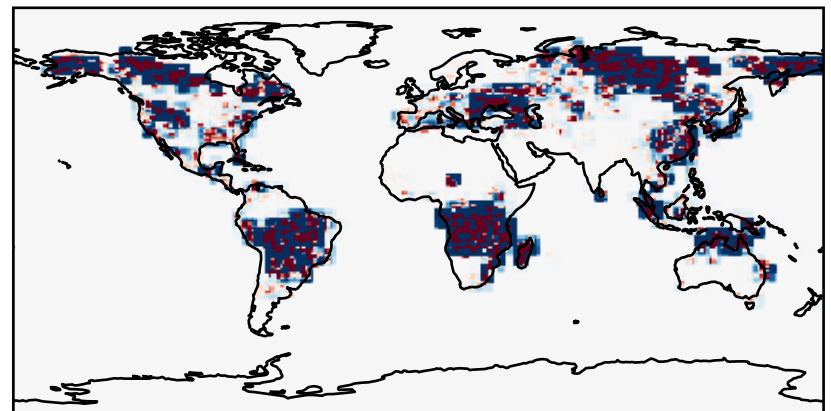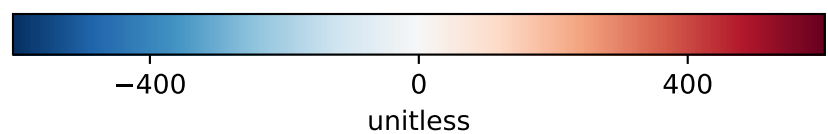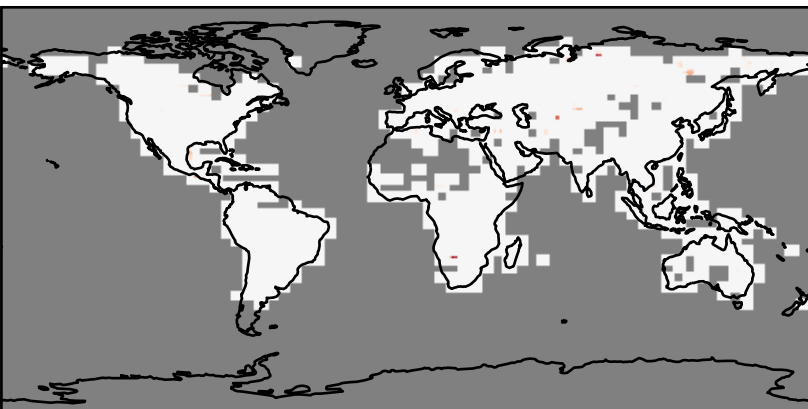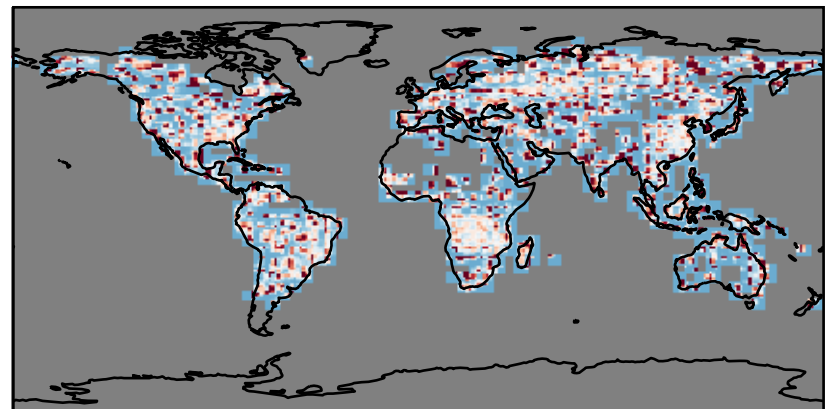Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

kg/m2/s

unitless

EmisPRPE_Ship

EmisPRPE_Total

EmisTOLU_Anthro

EmisTOLU_BioBurn

EmisTOLU_Ship

EmisTOLU_Total

EmisXYLE_Anthro

EmisXYLE_BioBurn

EmisXYLE_Ship

EmisXYLE_Total

EmisISOP_Anthro

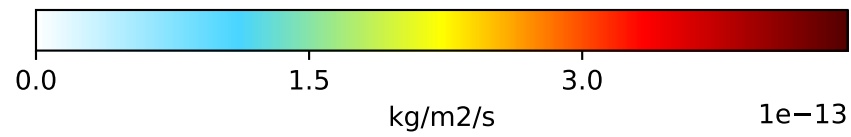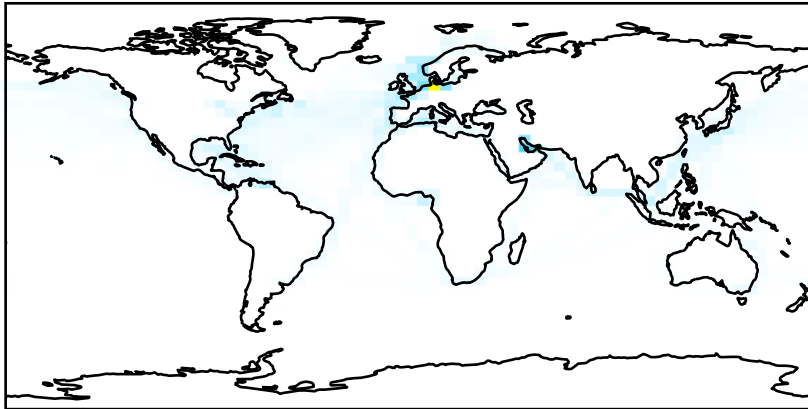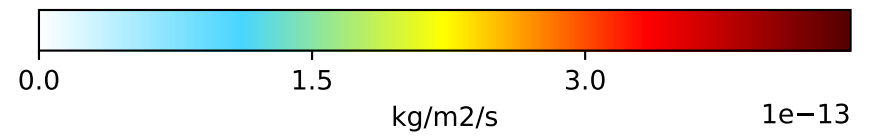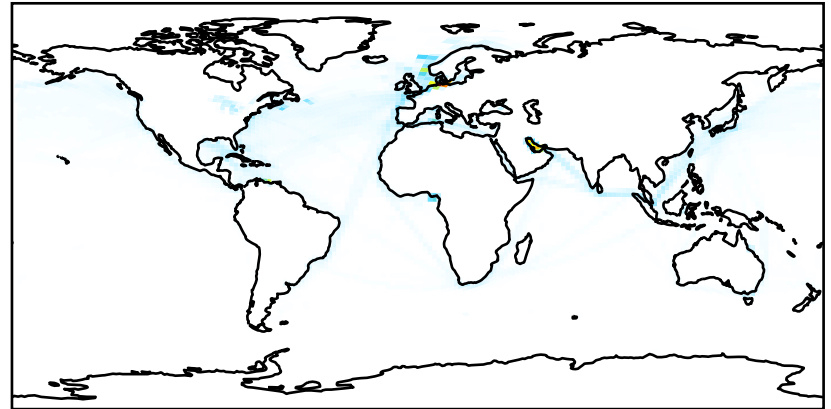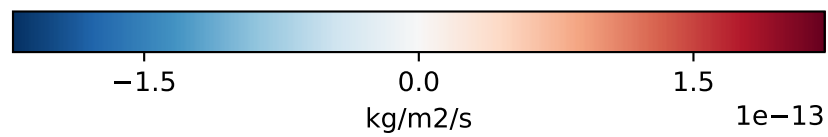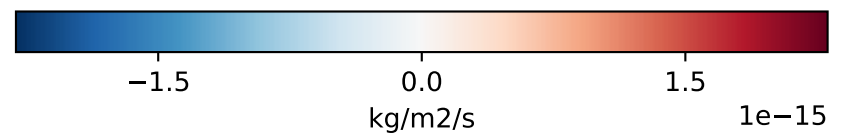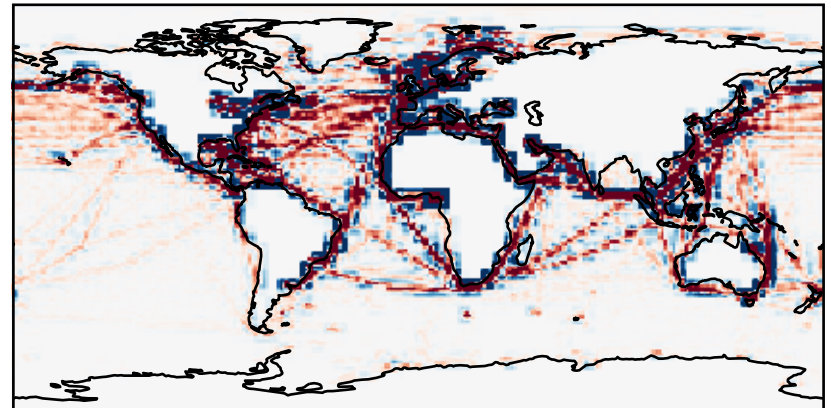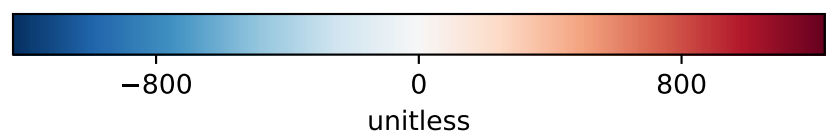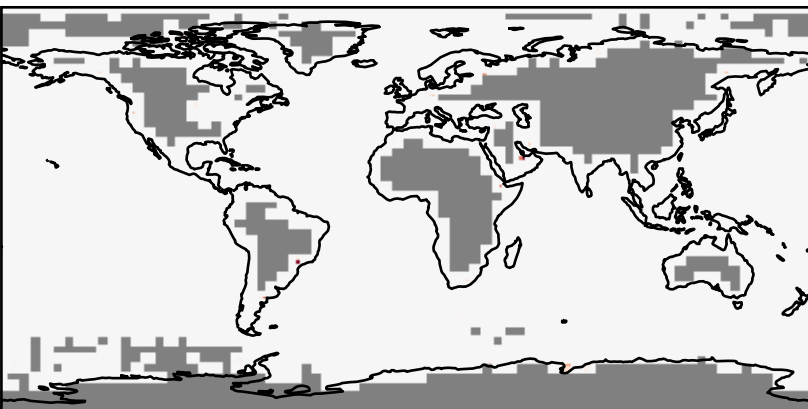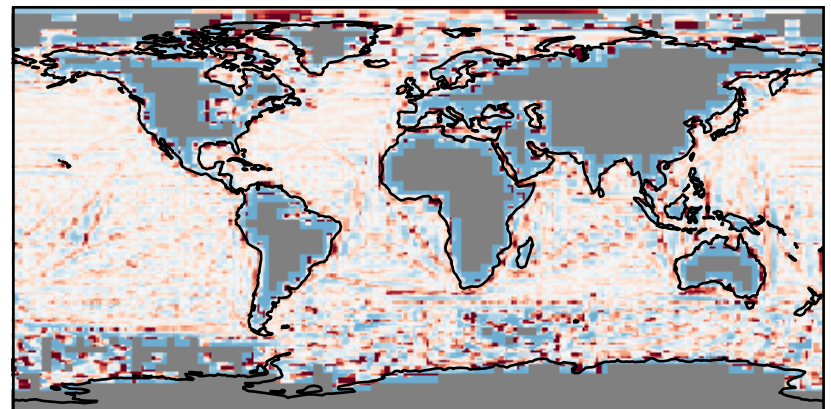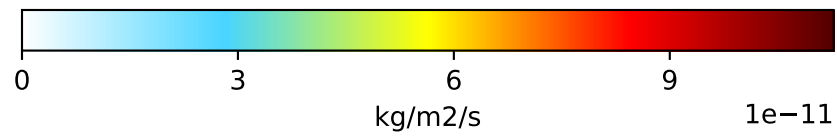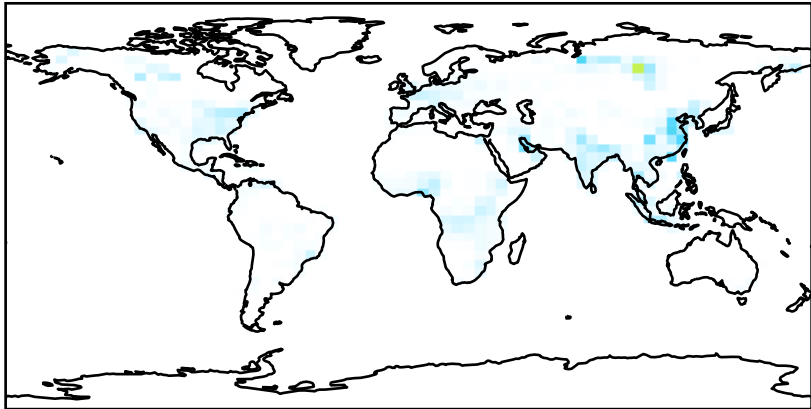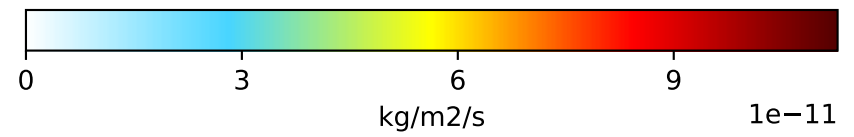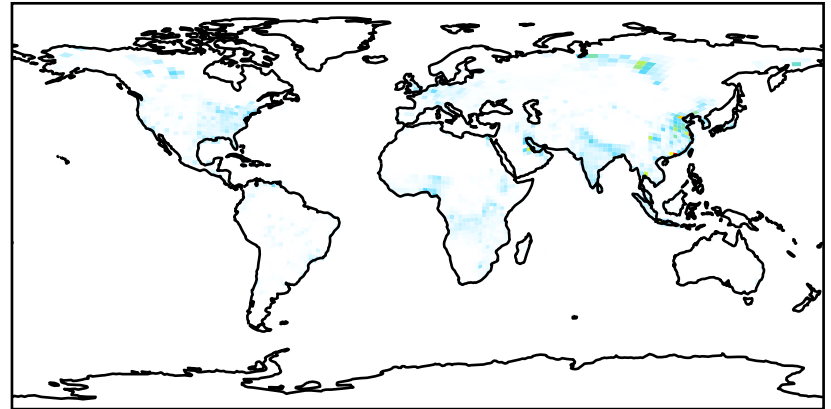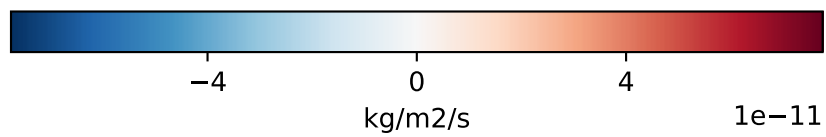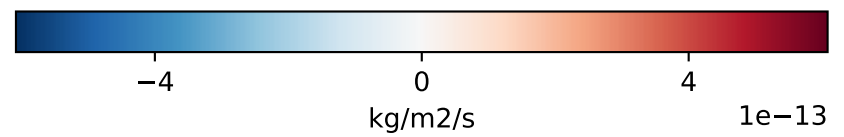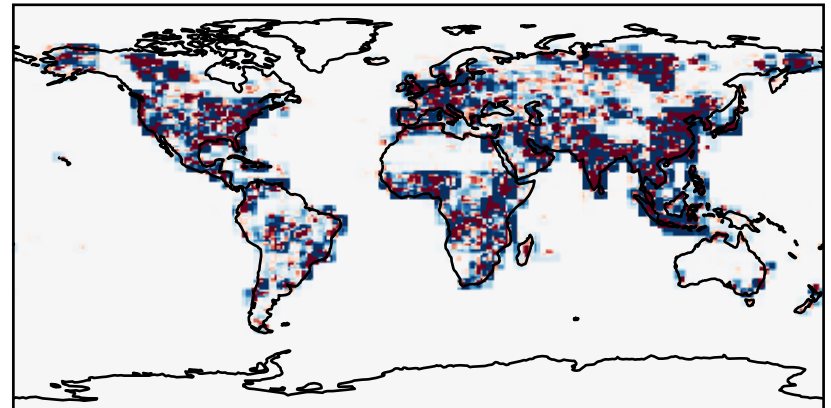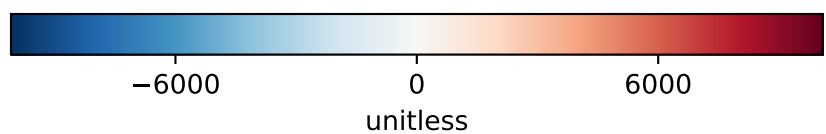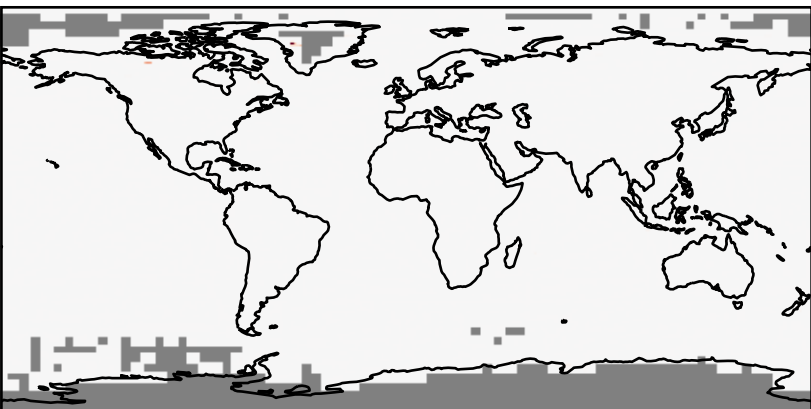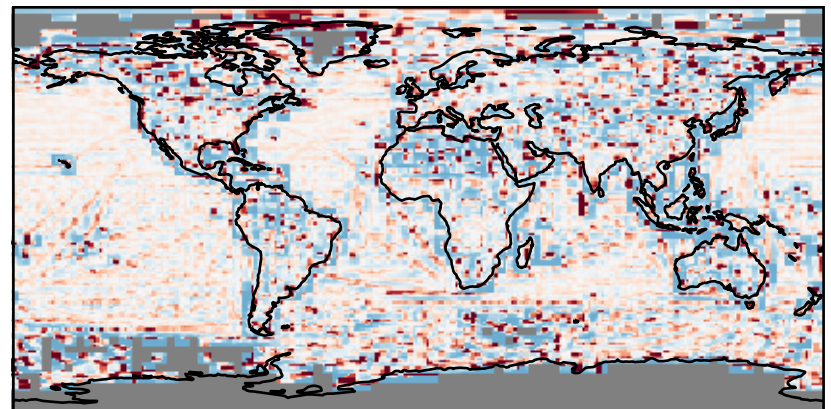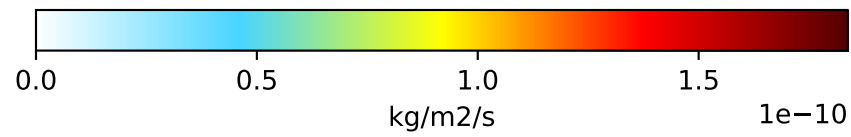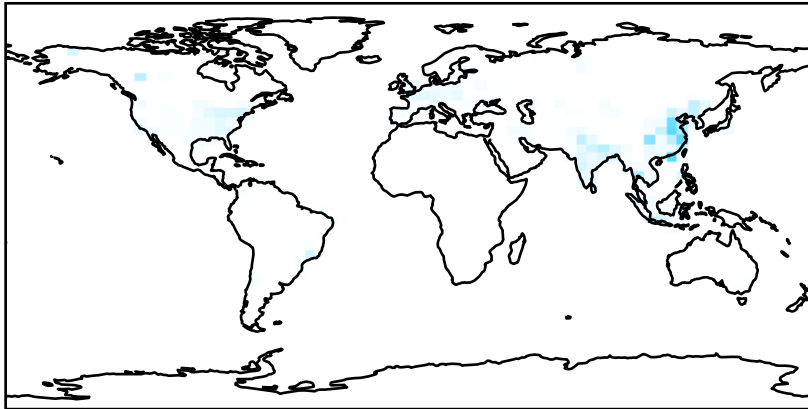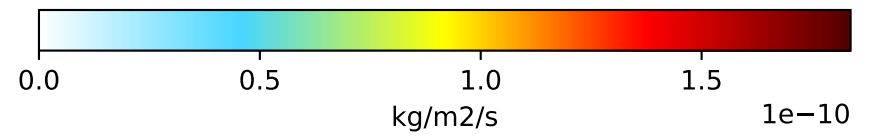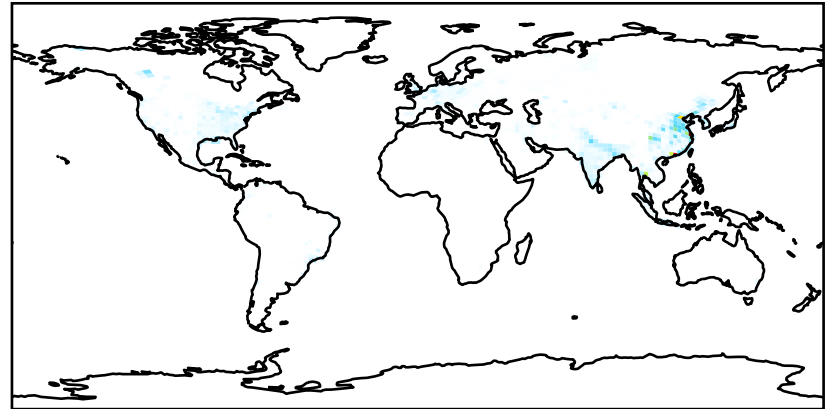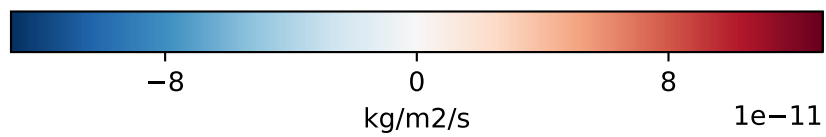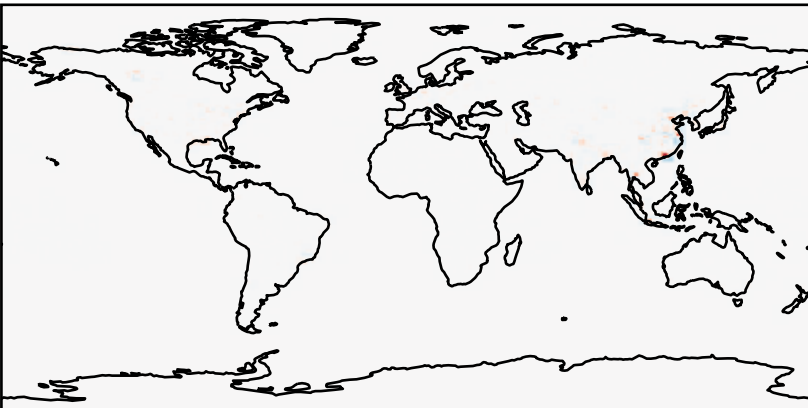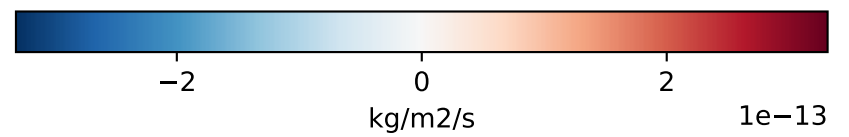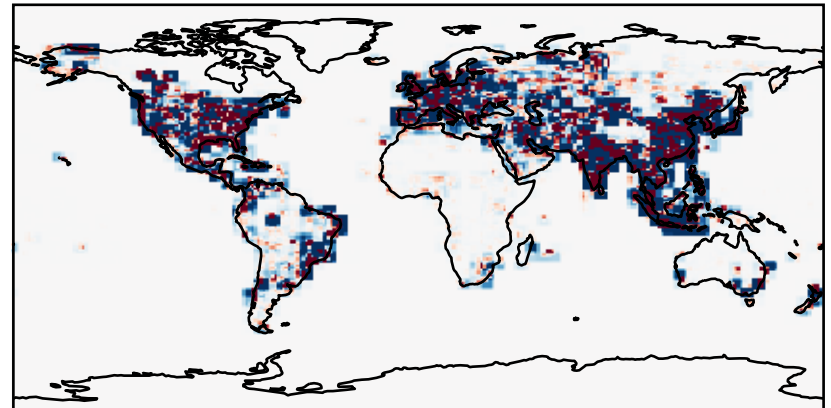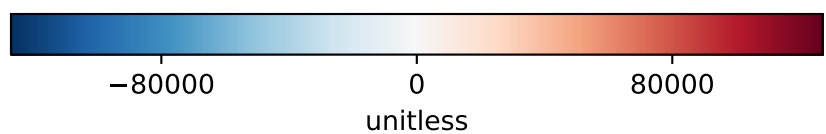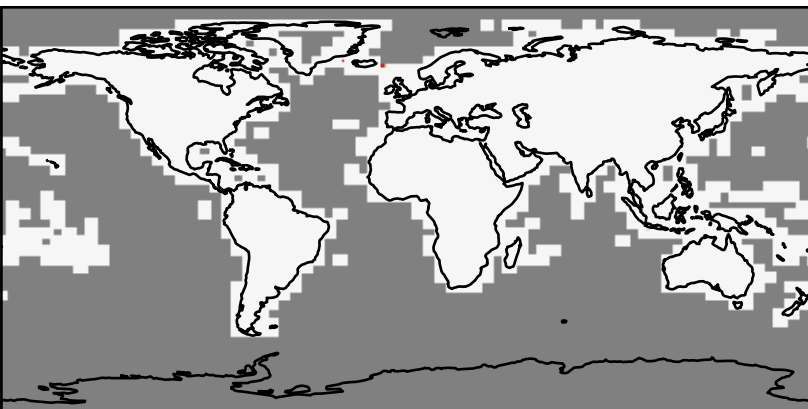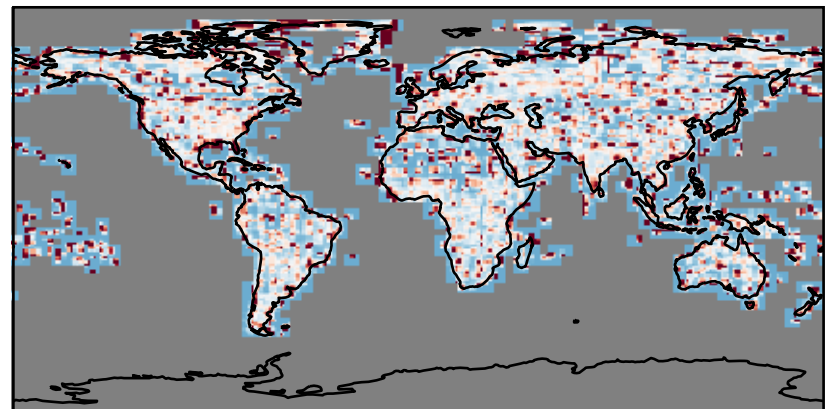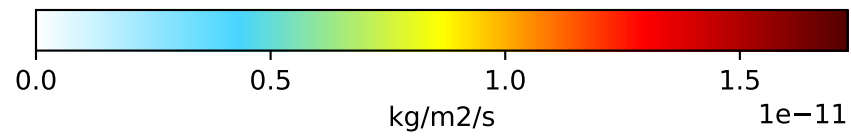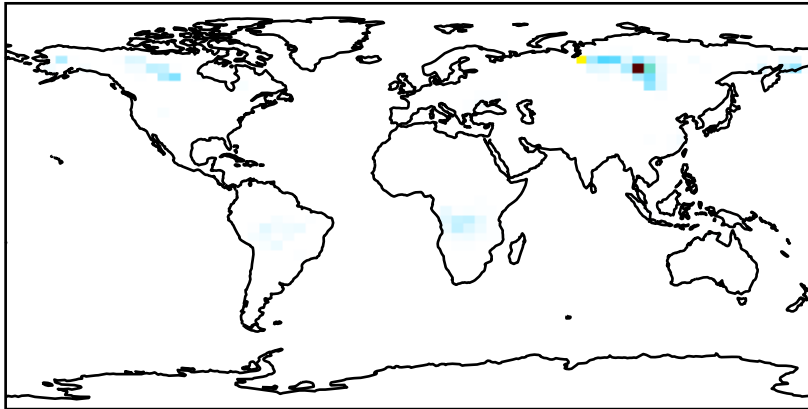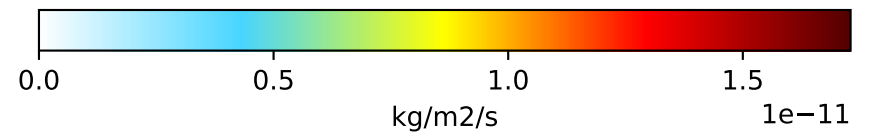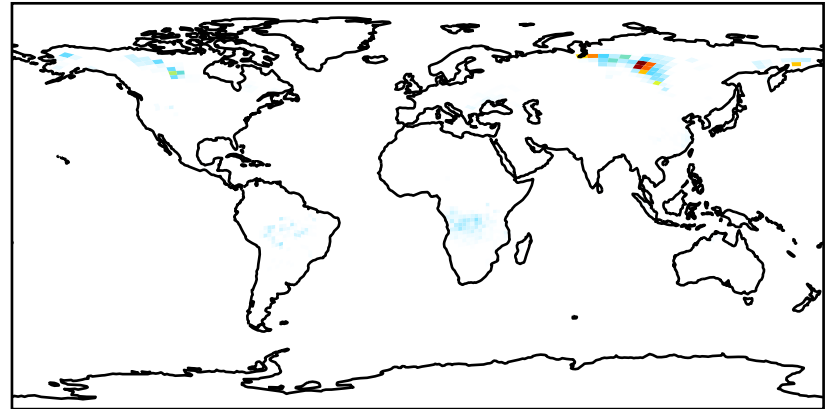| GC_12.7.0 (Ref) 4x5	GCHP_12.7.0 (Dev) c48
Difference (1x1.25) Dev - Ref, Dynamic Range	Difference (1x1.25) Dev - Ref, Restricted Range [5%,95%]
Fractional Difference (1x1.25) (Dev-Ref)/Ref, Dynamic Range	Fractional Difference (1x1.25) (Dev-Ref)/Ref, Fixed Range

EmisISOP_Biogenic

EmisISOP_Total

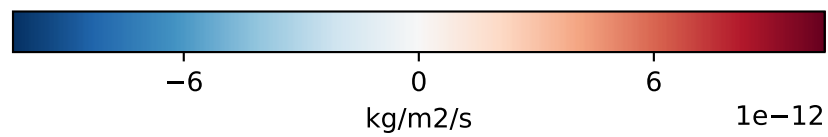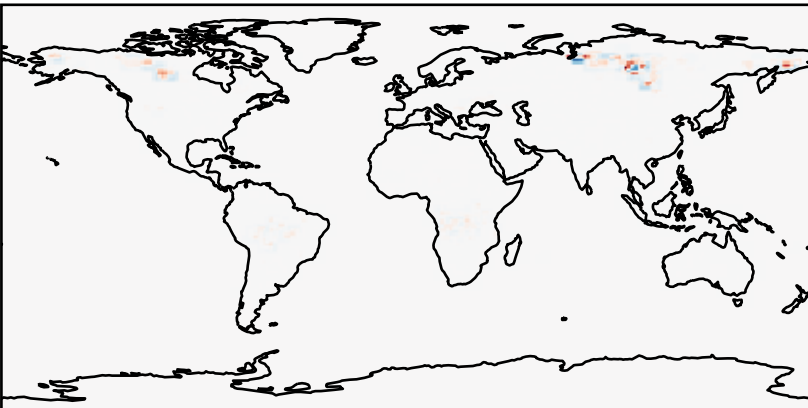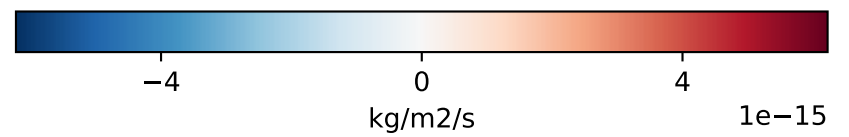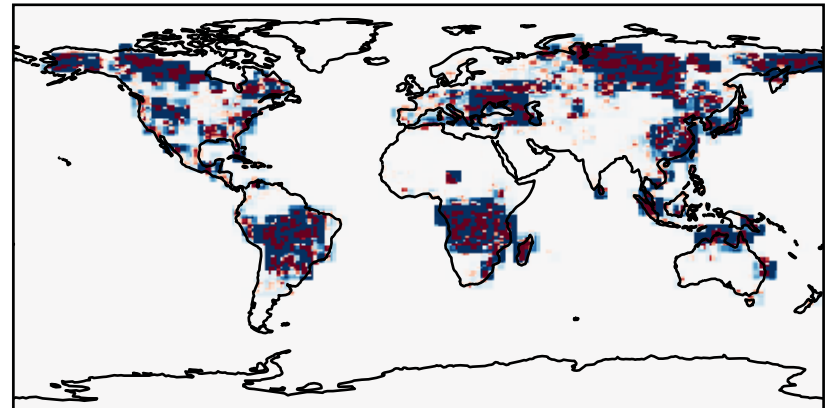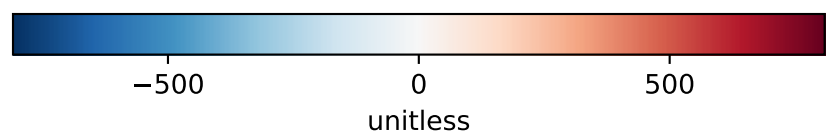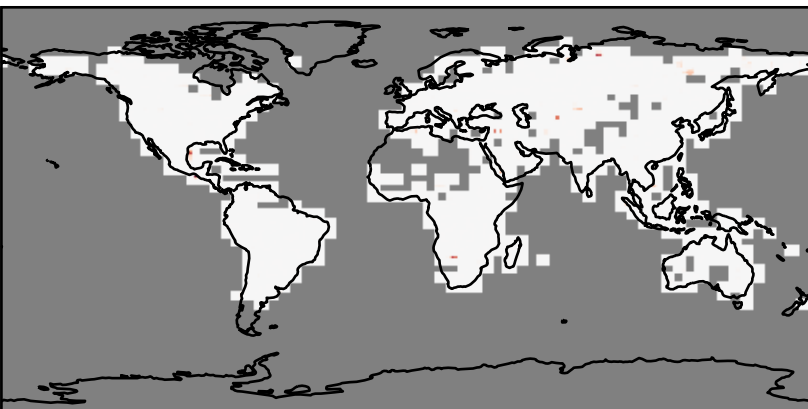

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

Difference (1x1.25)
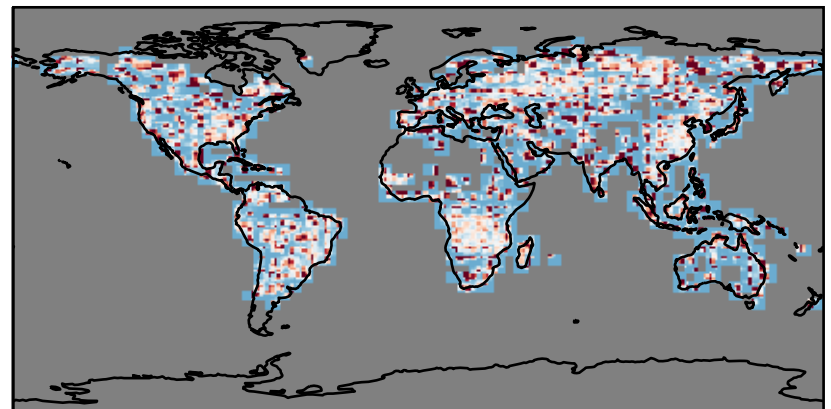Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

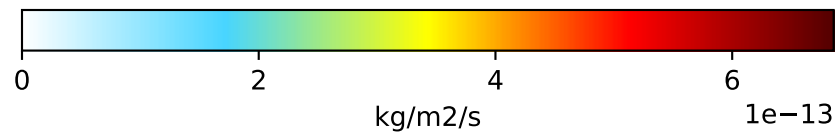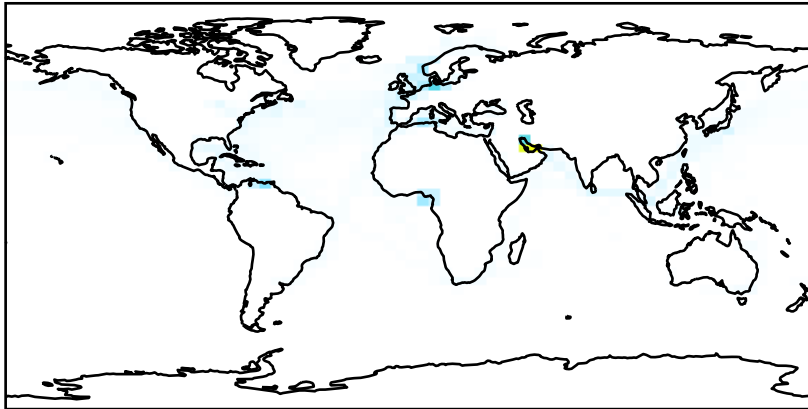Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

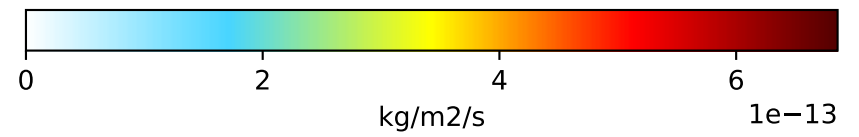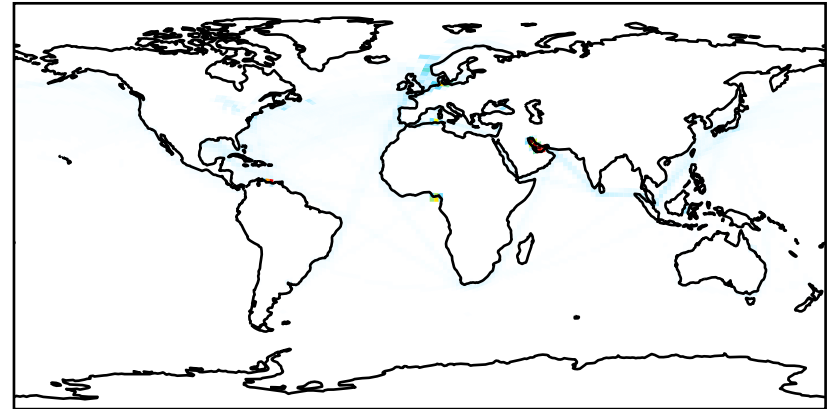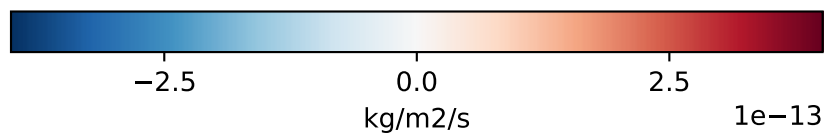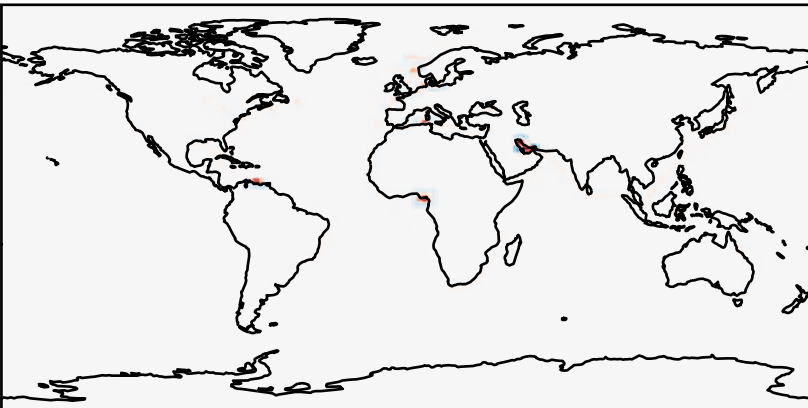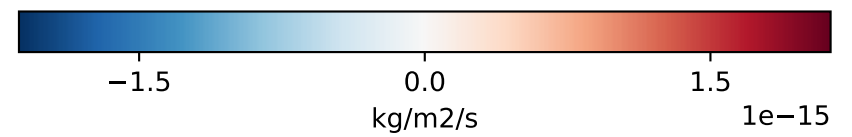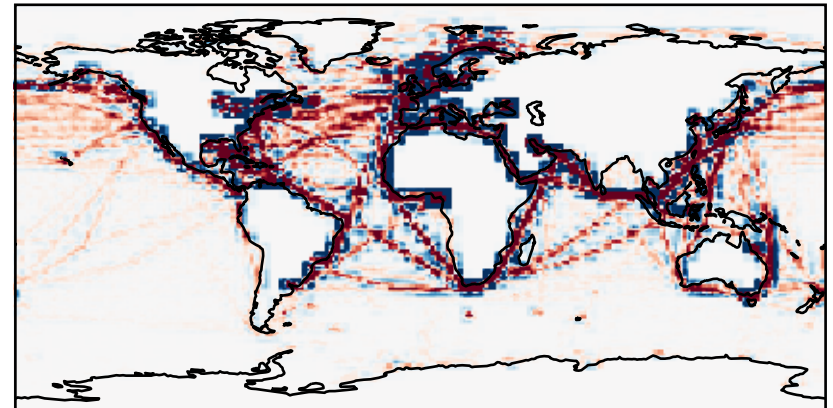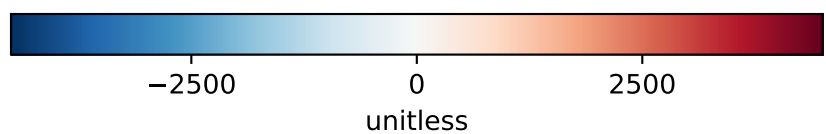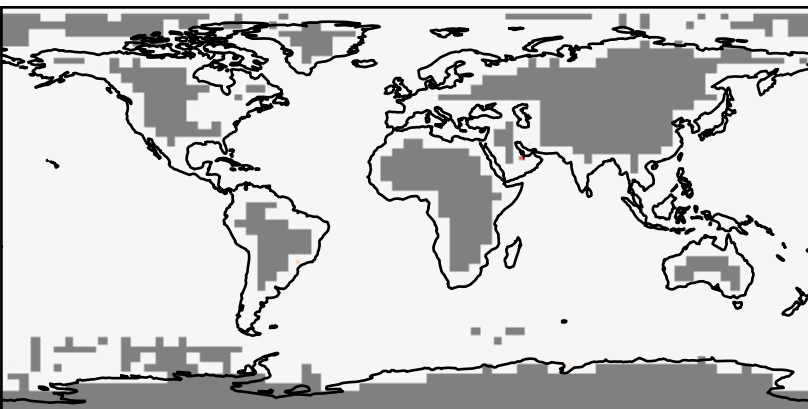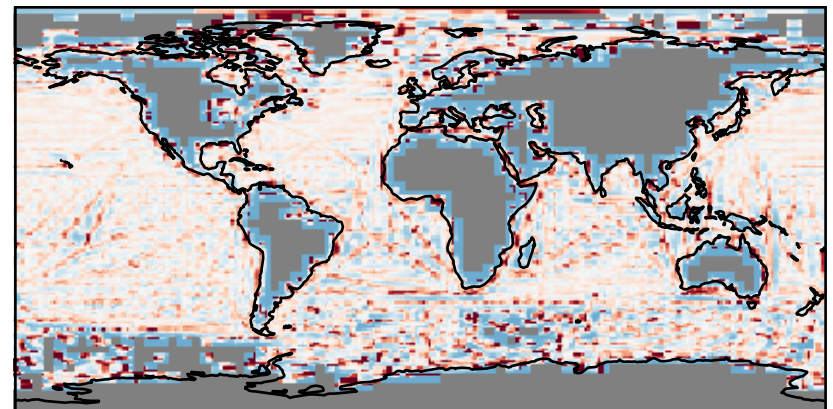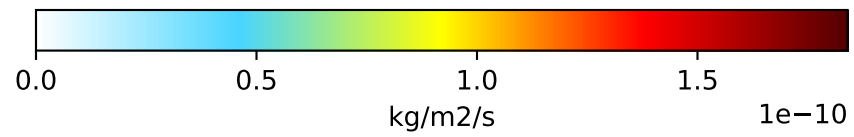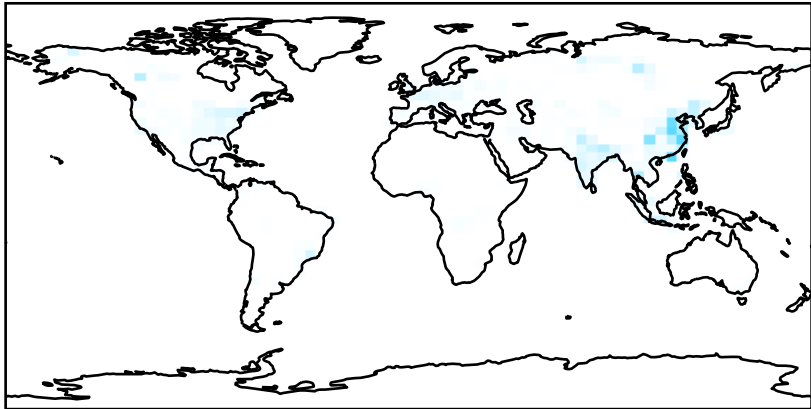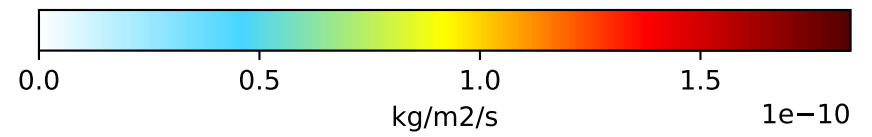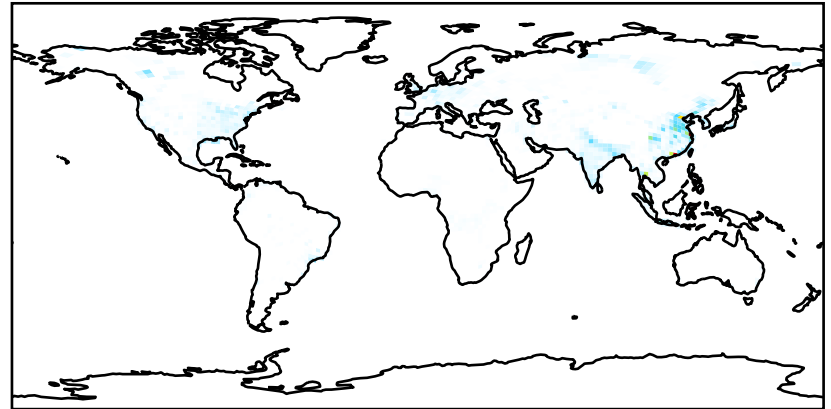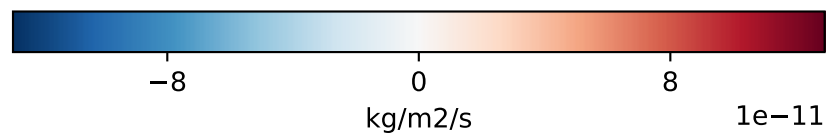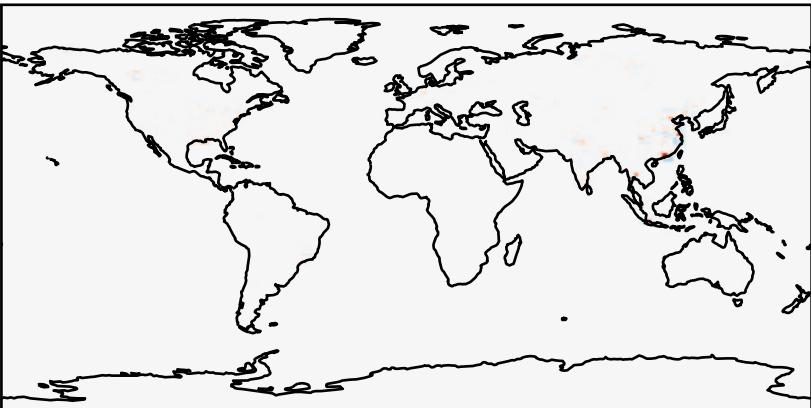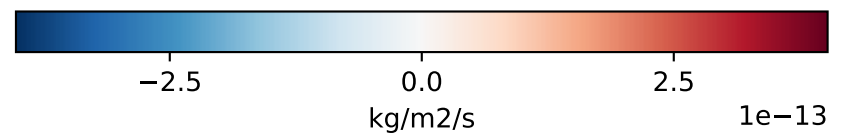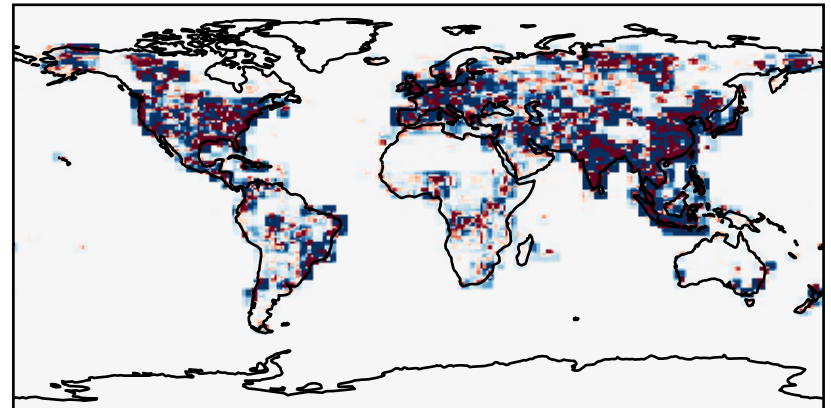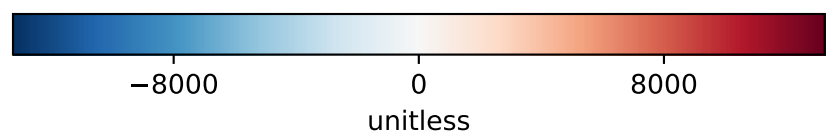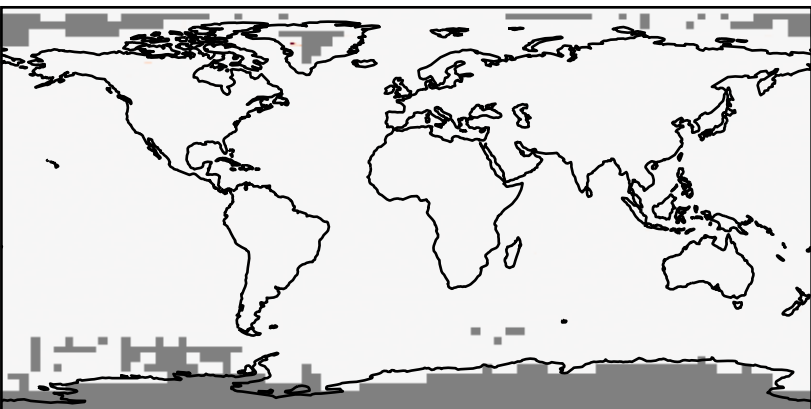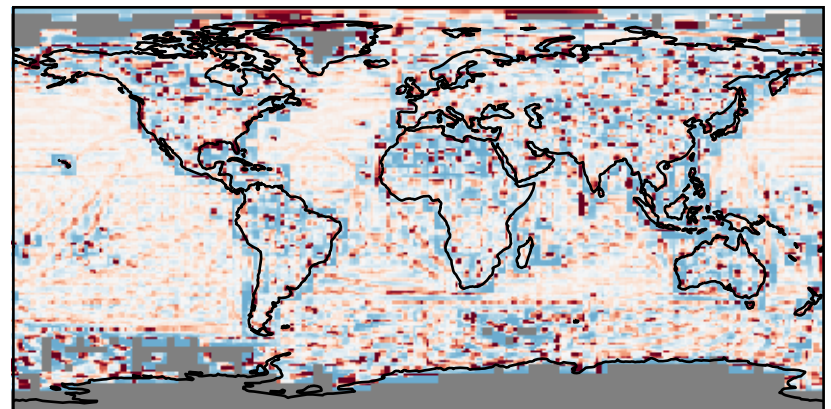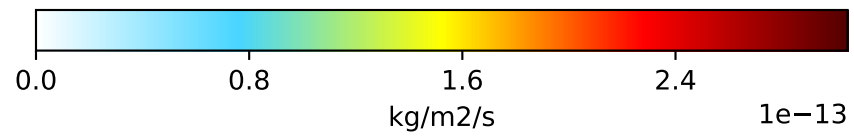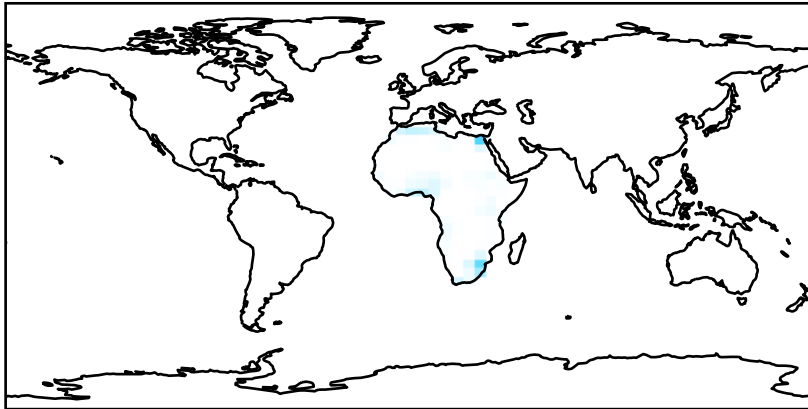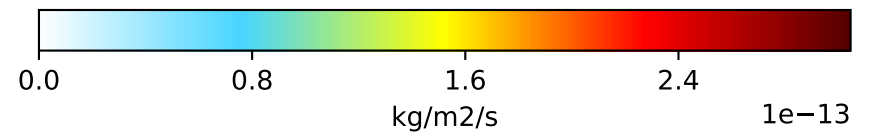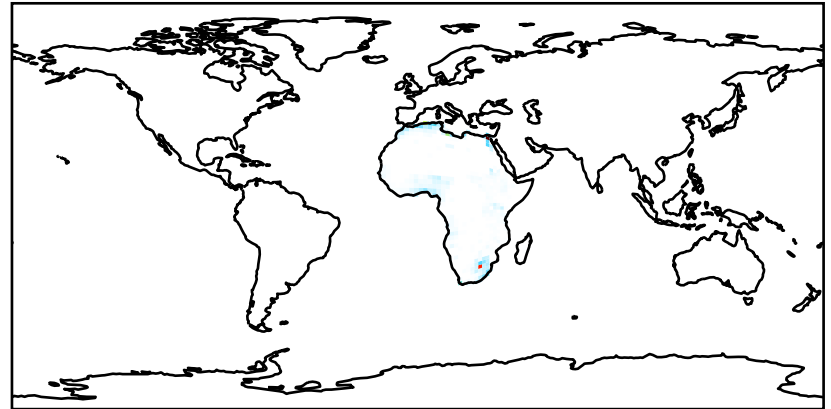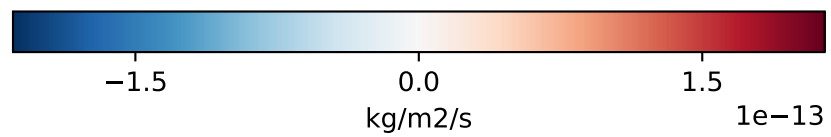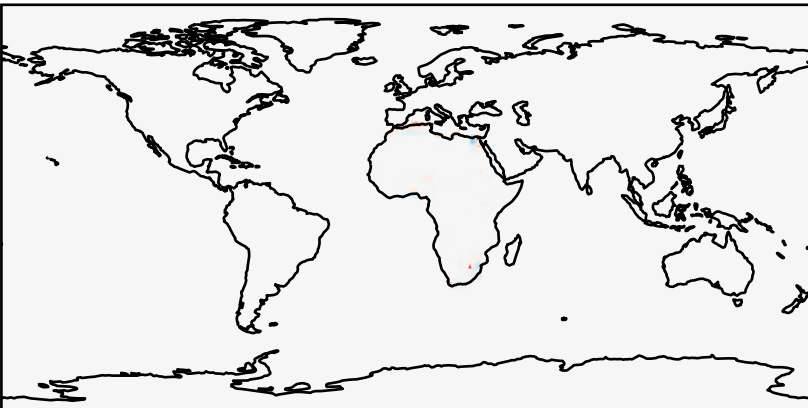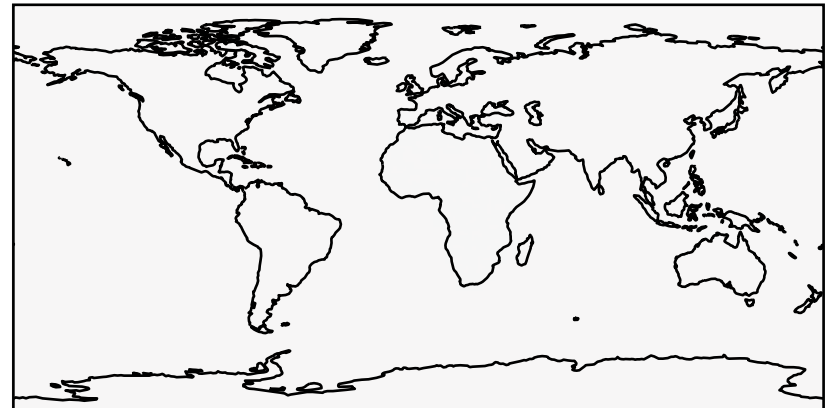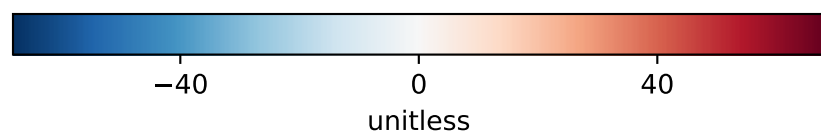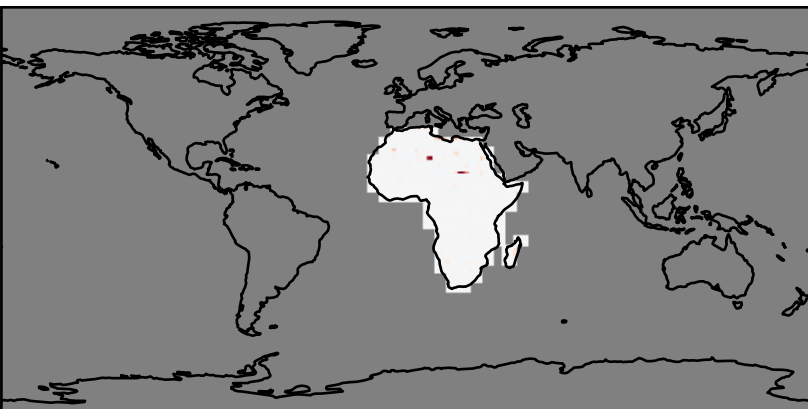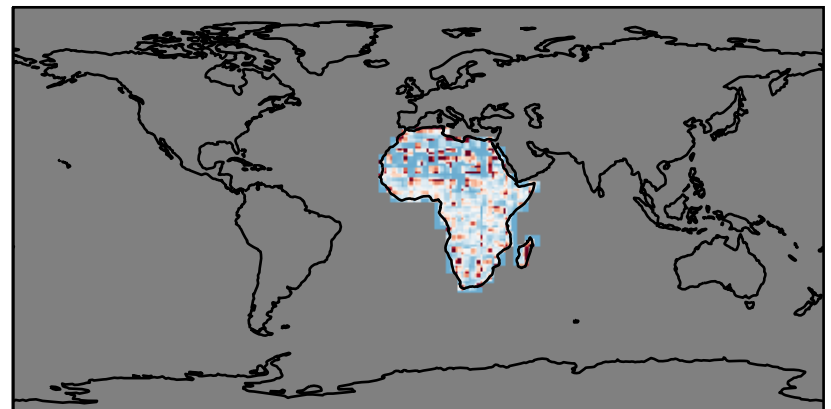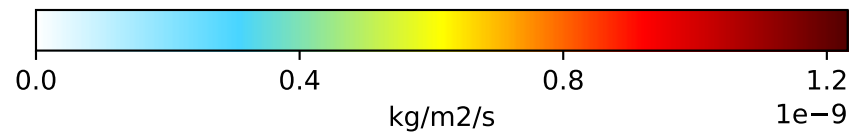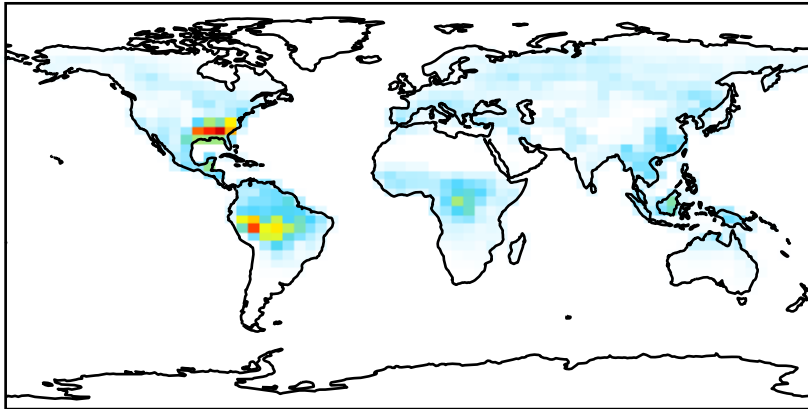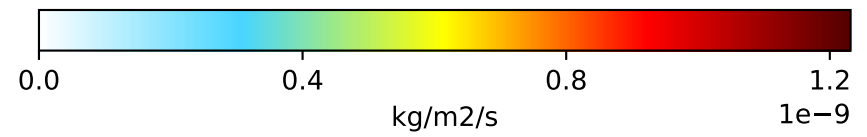Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

EmisMTPA_BioBurn

EmisMTPA_Biogenic

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

kg/m2/s

kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

kg/m2/s

kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range
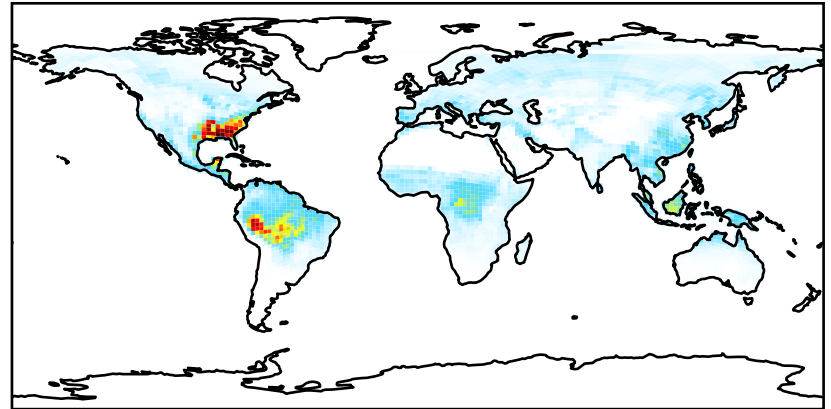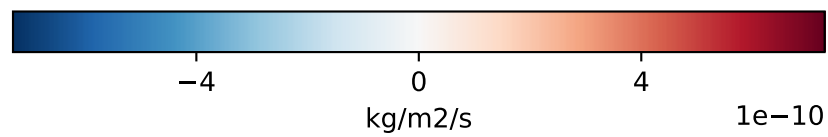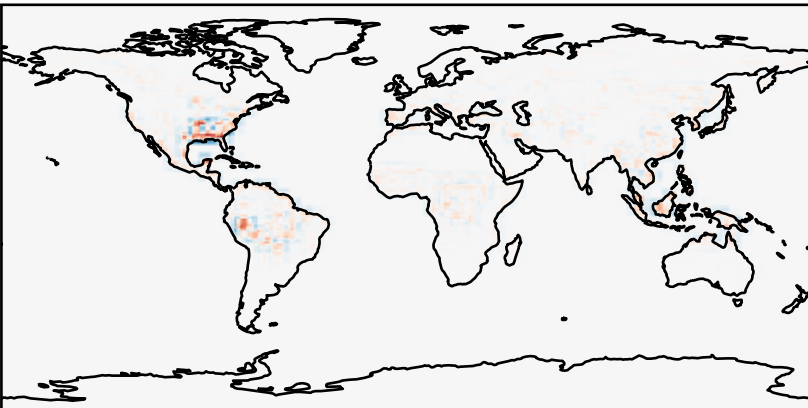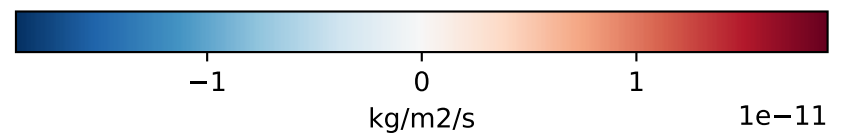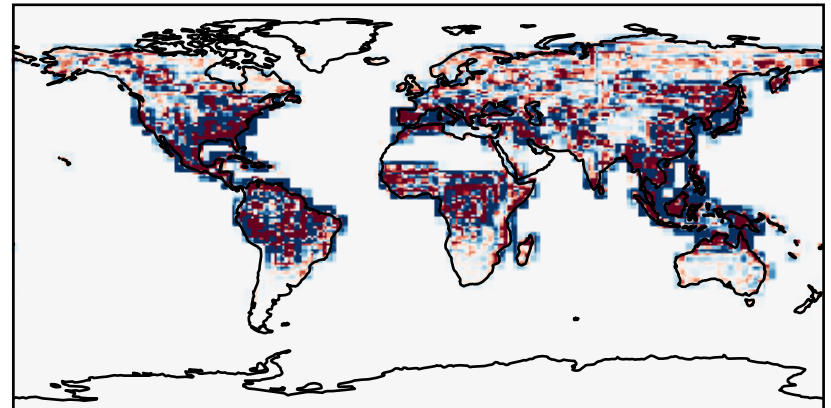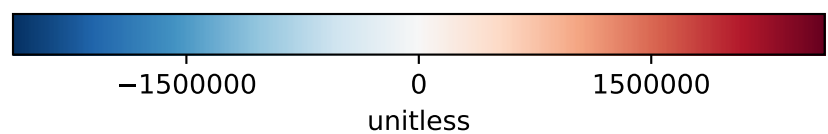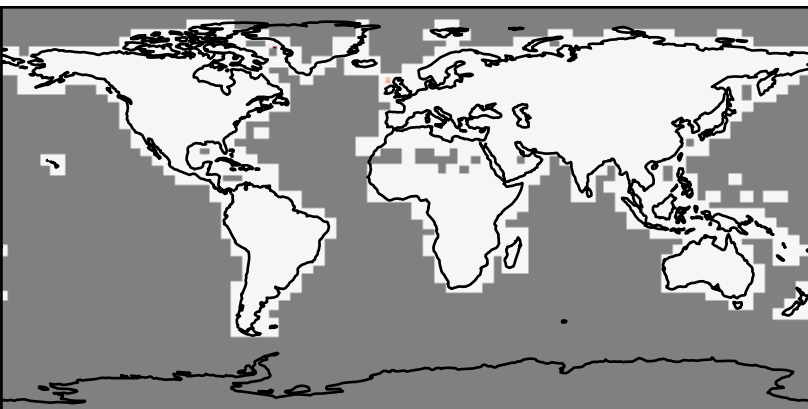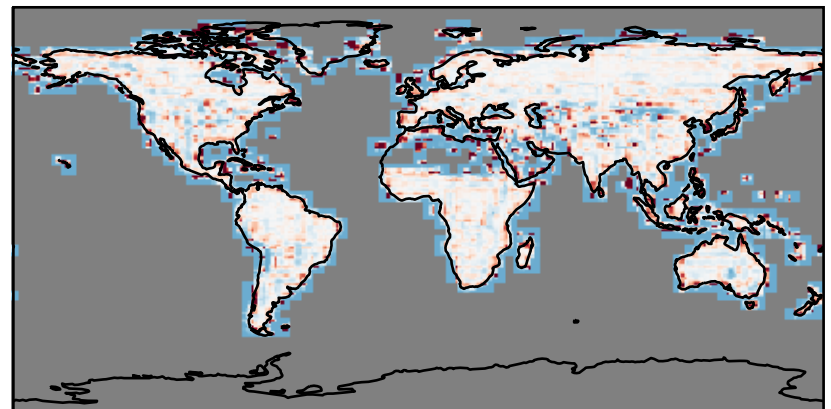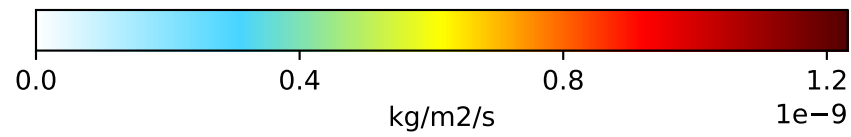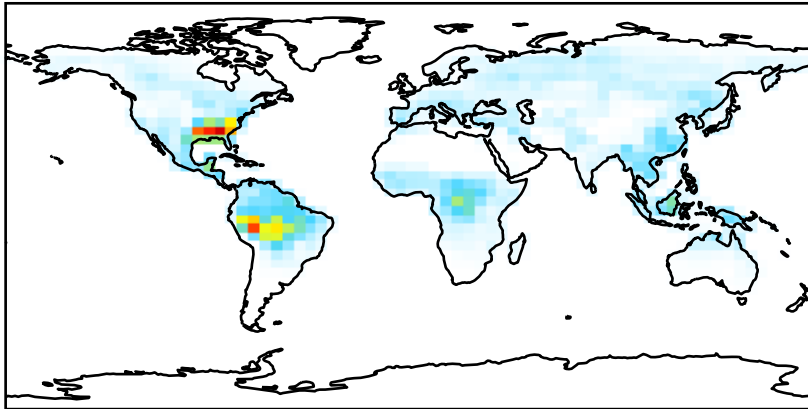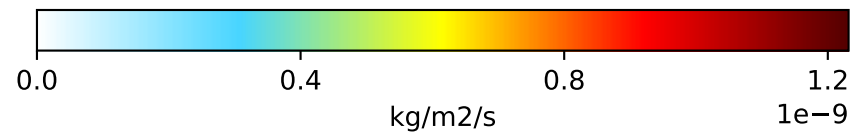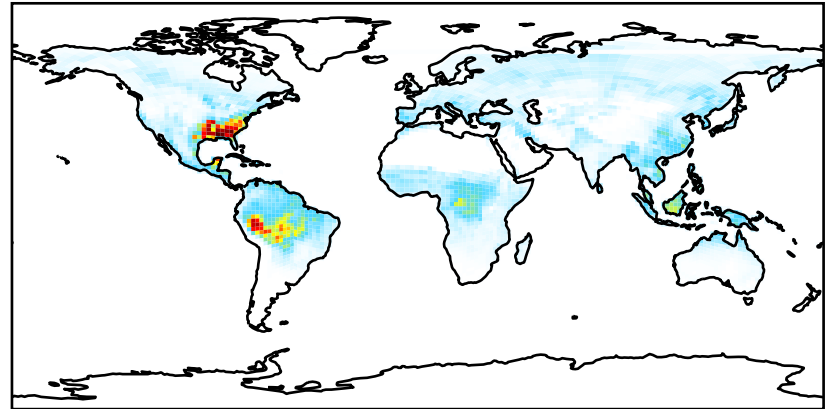
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

unitless

unitless

EmisMTPA_Total
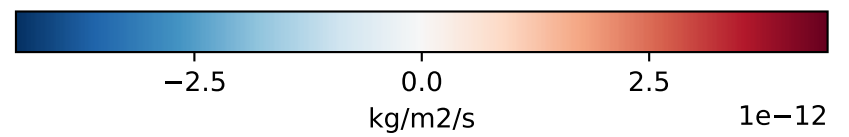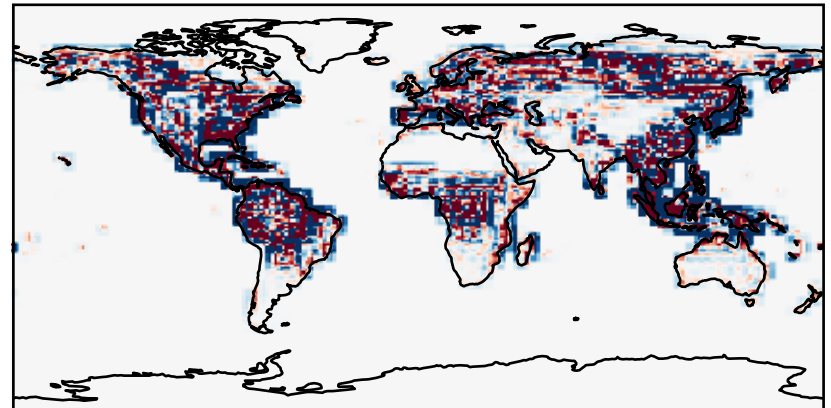
EmisMTPO_Biogenic

EmisLIMO_Biogenic
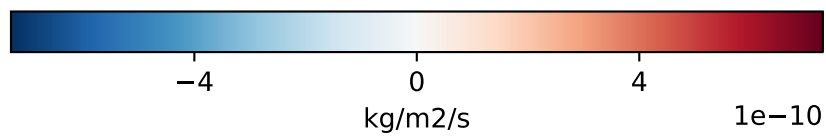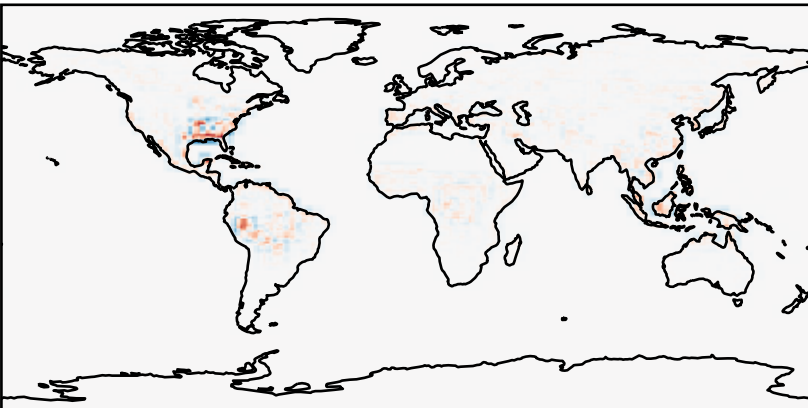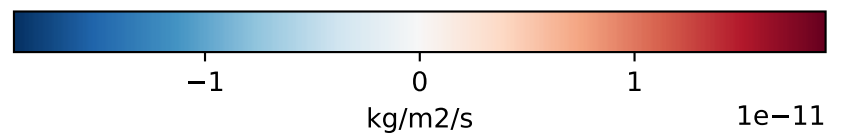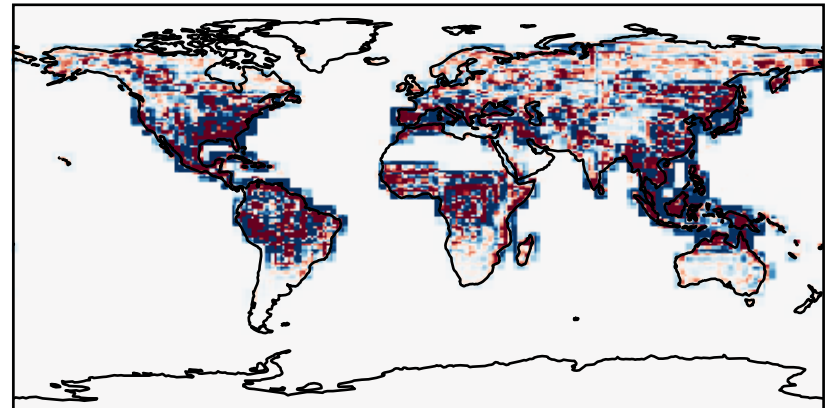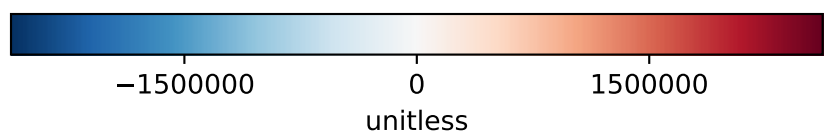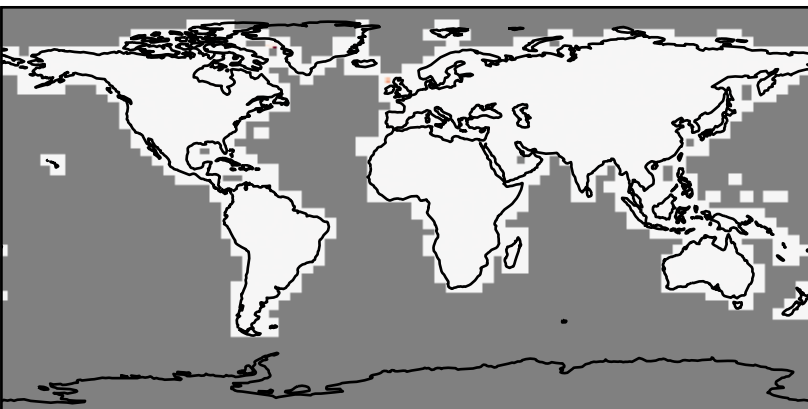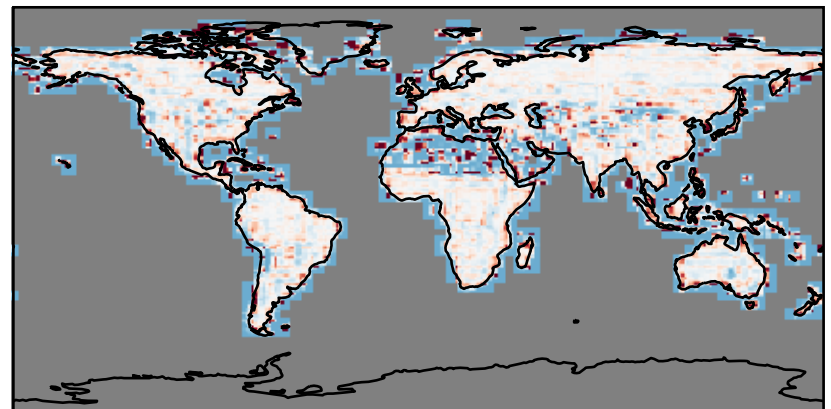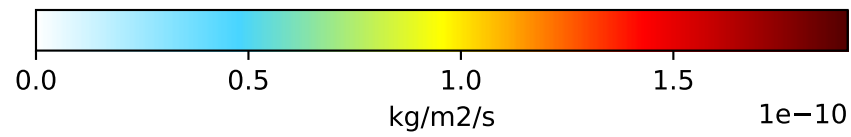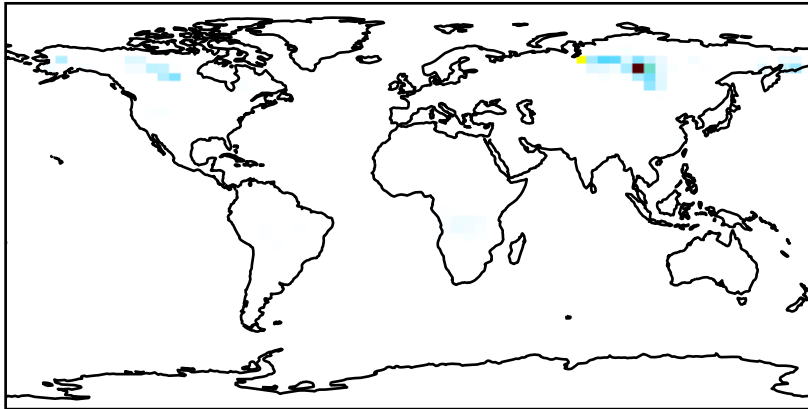

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48

kg/m2/s

kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

kg/m2/s

kg/m2/s

Fractional Difference (1x1.25)
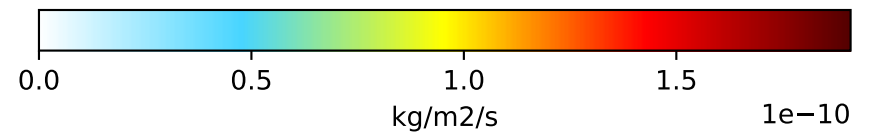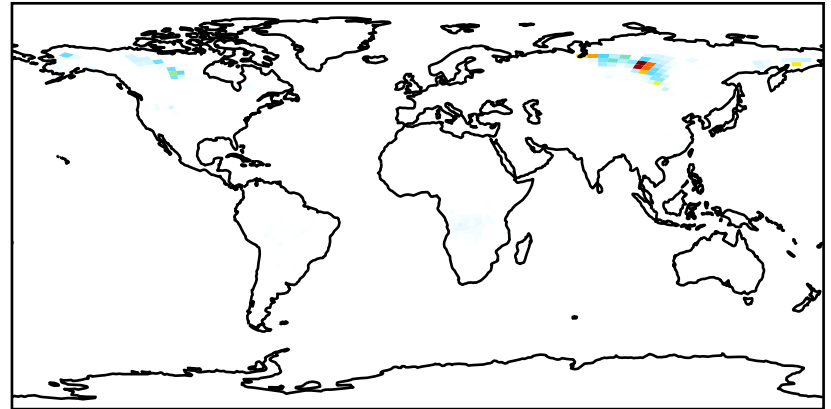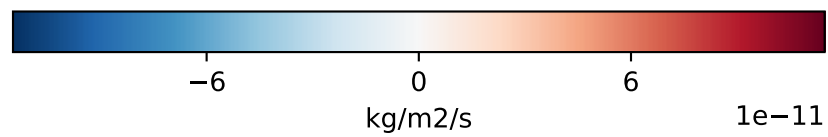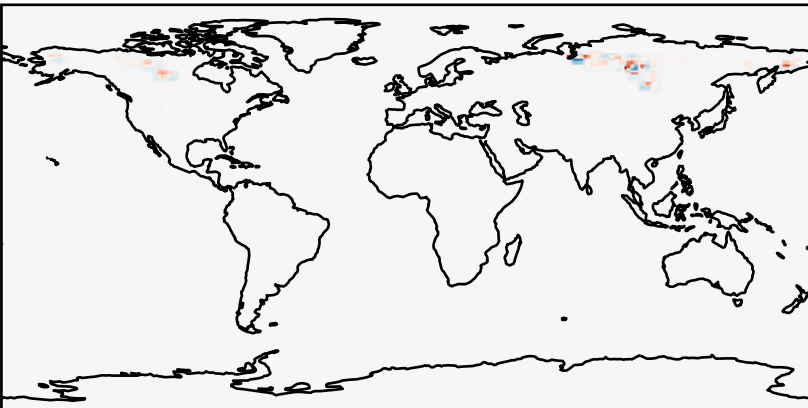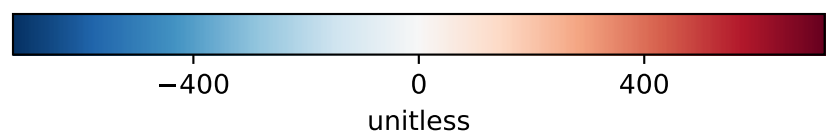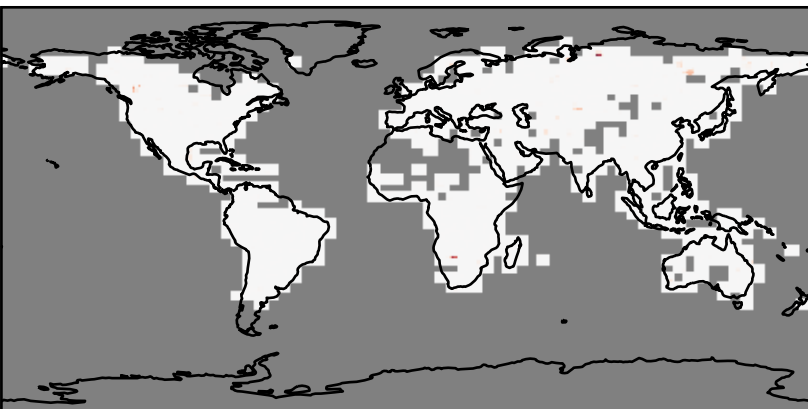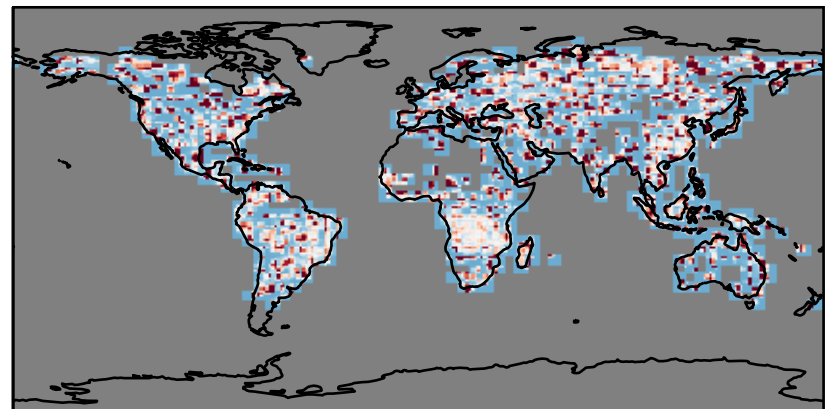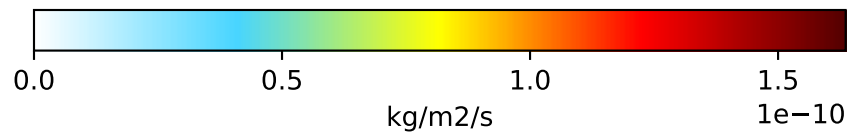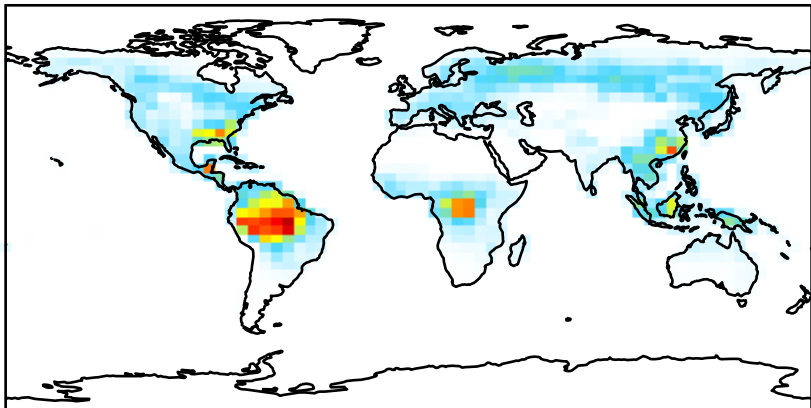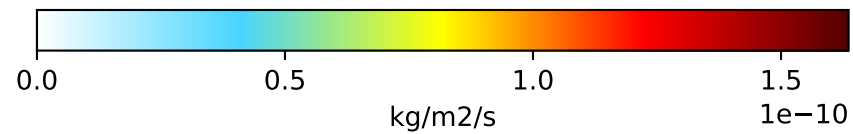(Dev-Ref)/Ref, Dynamic Range
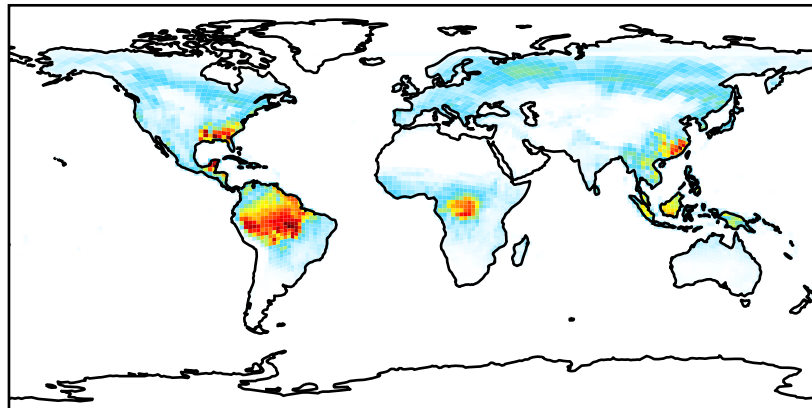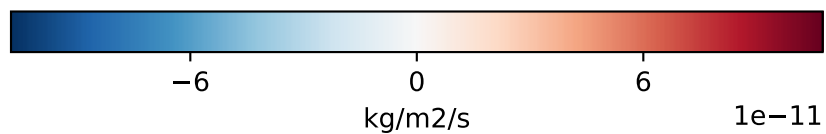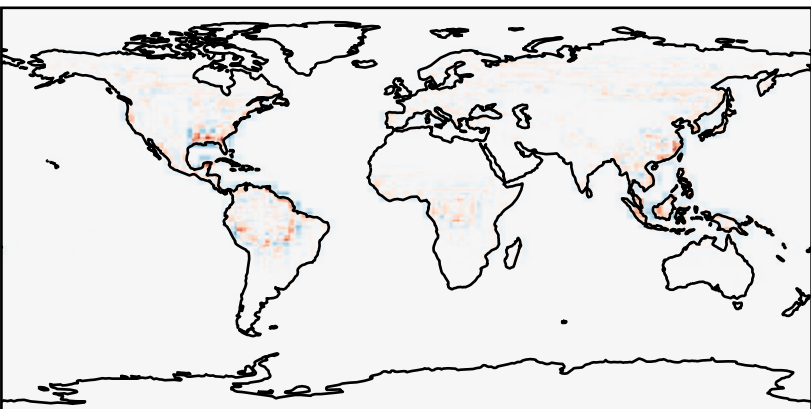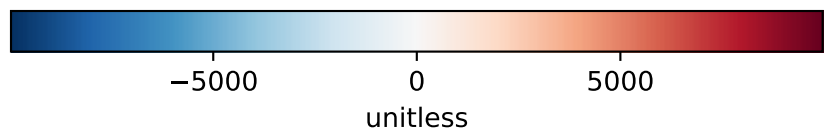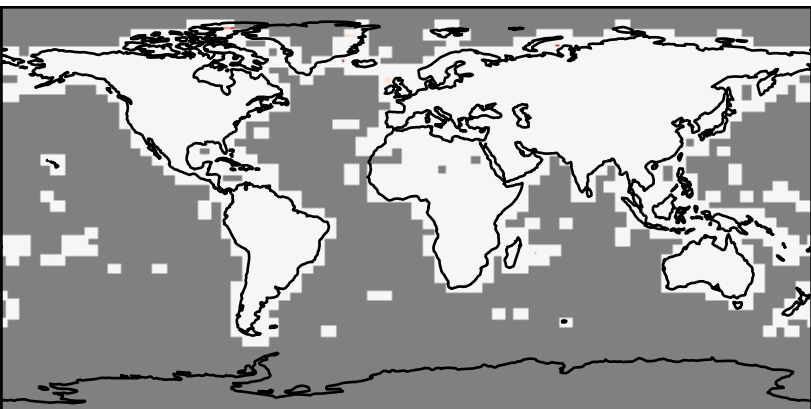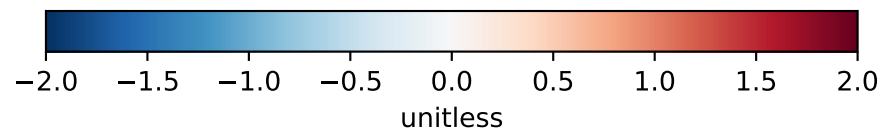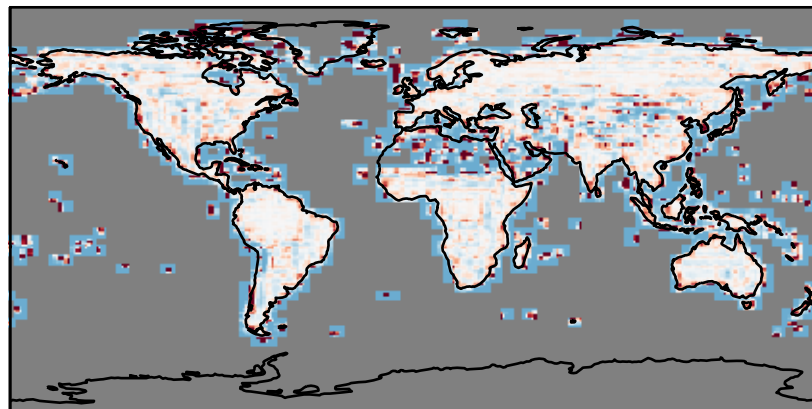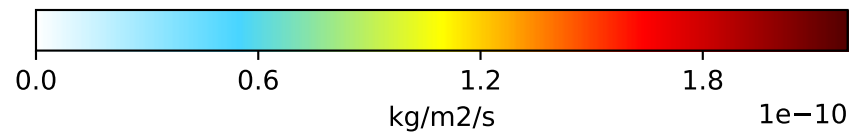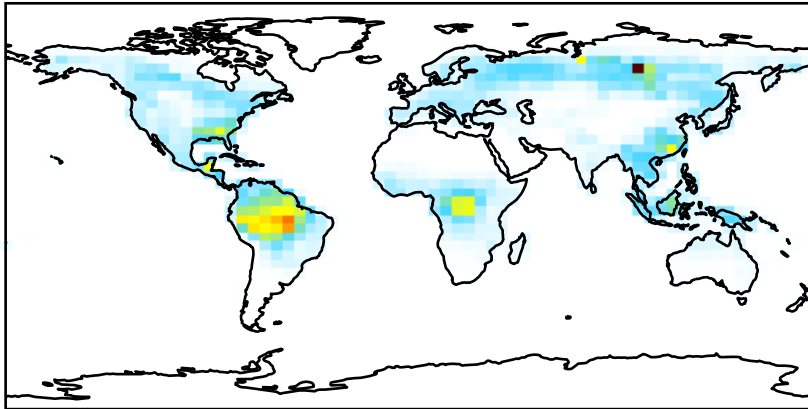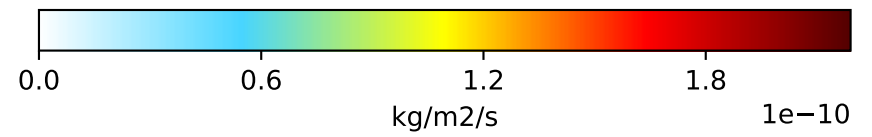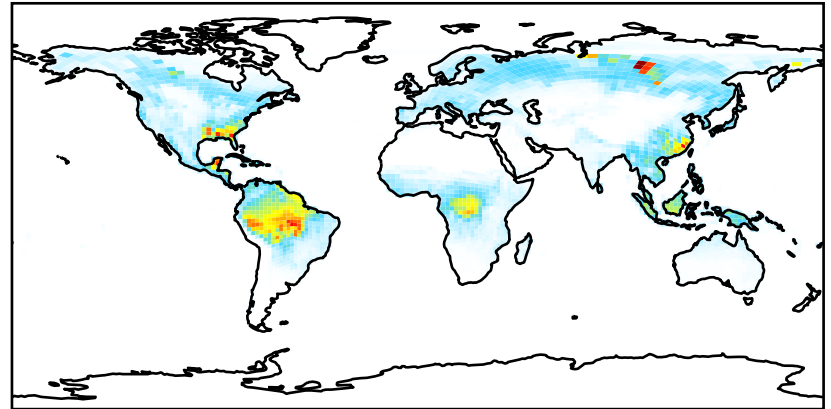
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

unitless

unitless

EmisEOH_Anthro

EmisEOH_BioBurn

EmisEOH_Biogenic

EmisEOH_PlantDecay

EmisEOH_Ship
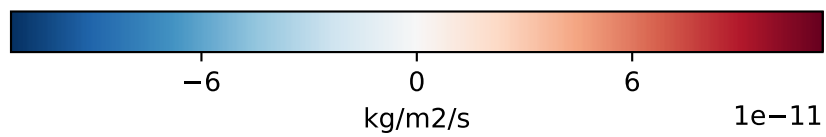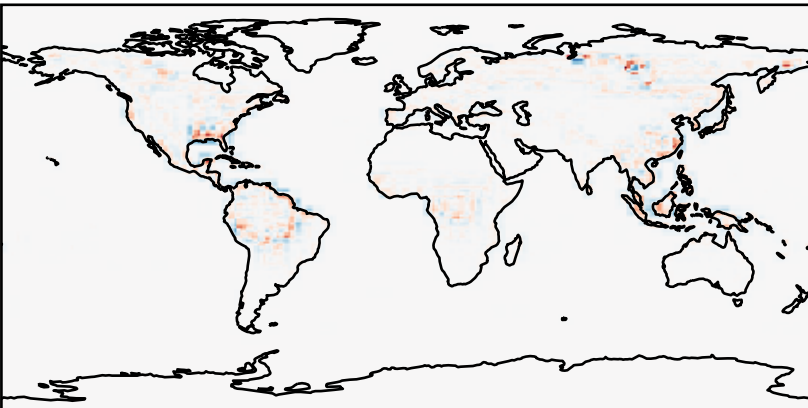

GC_12.7.0 (Ref)
4x5

GCHP_12.7.0 (Dev)
c48
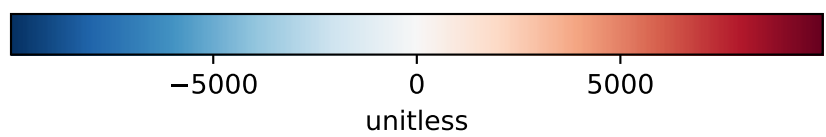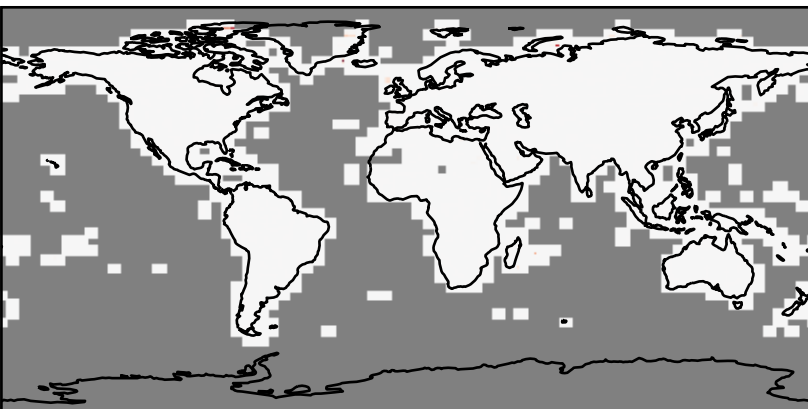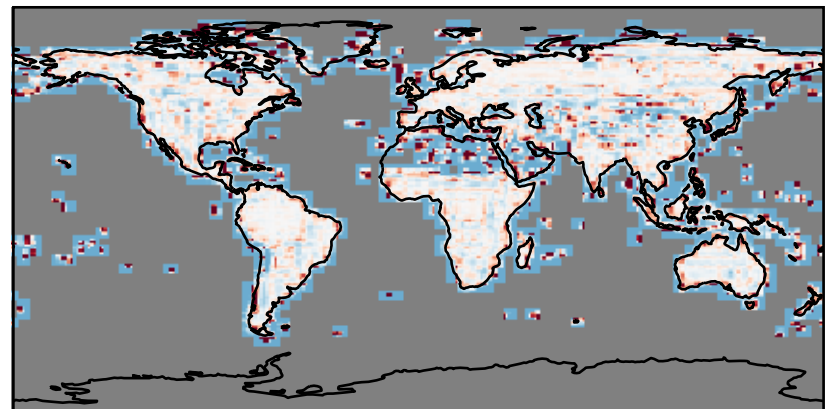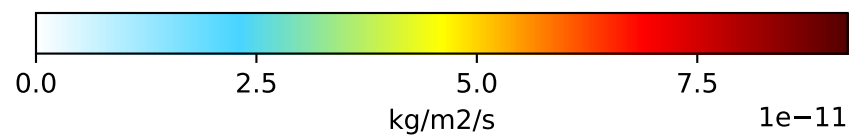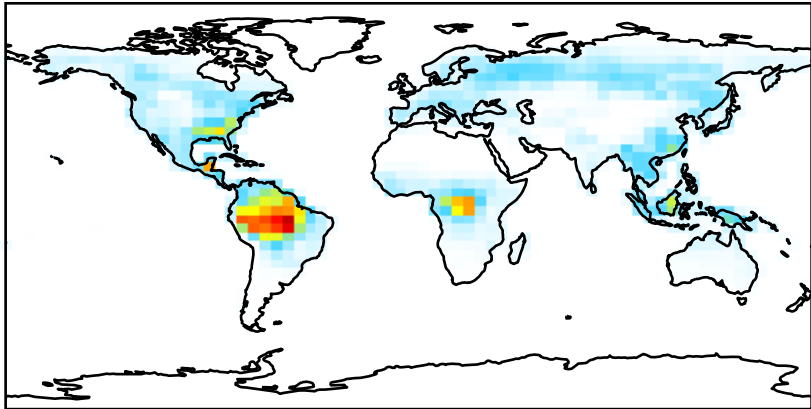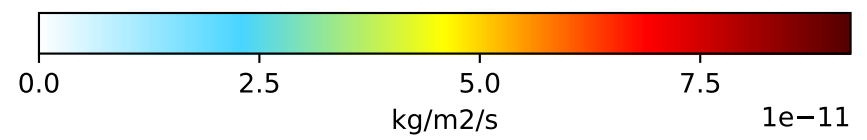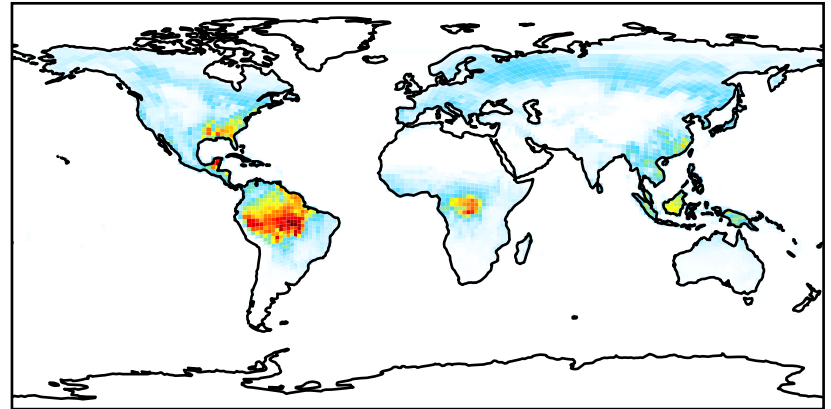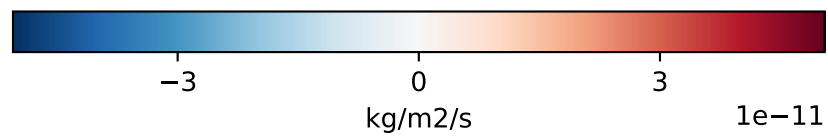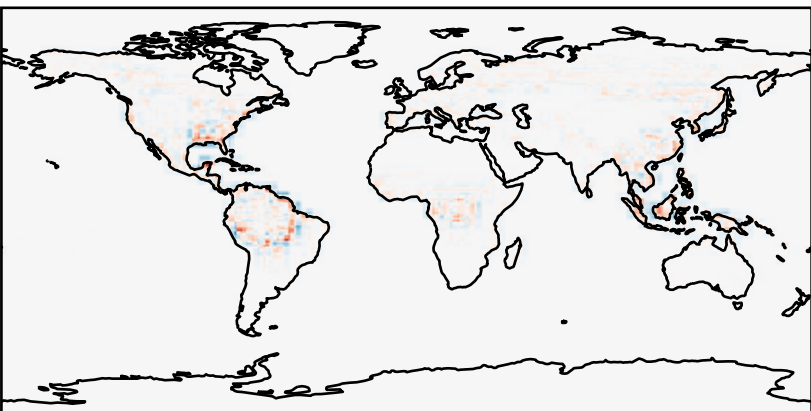
Zero throughout domain
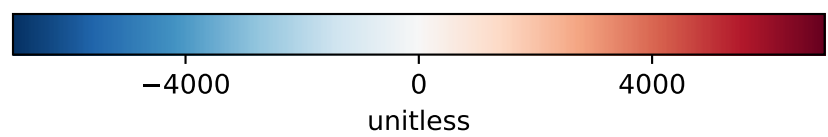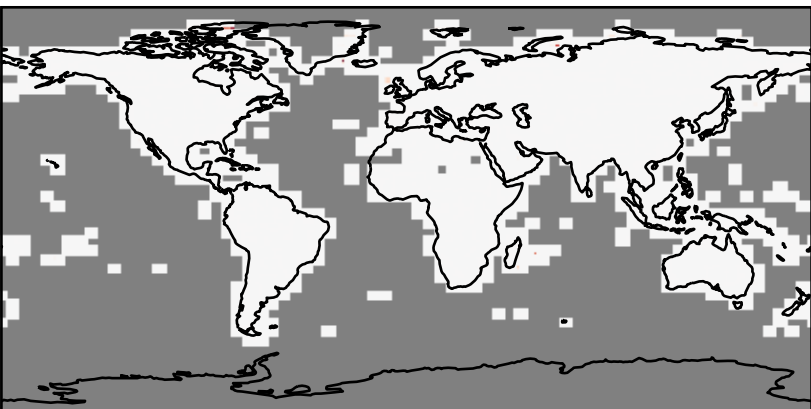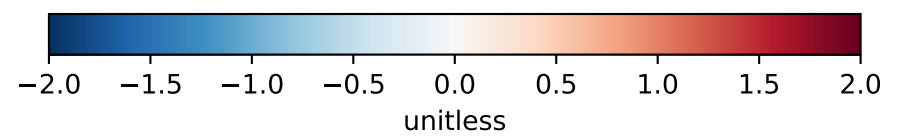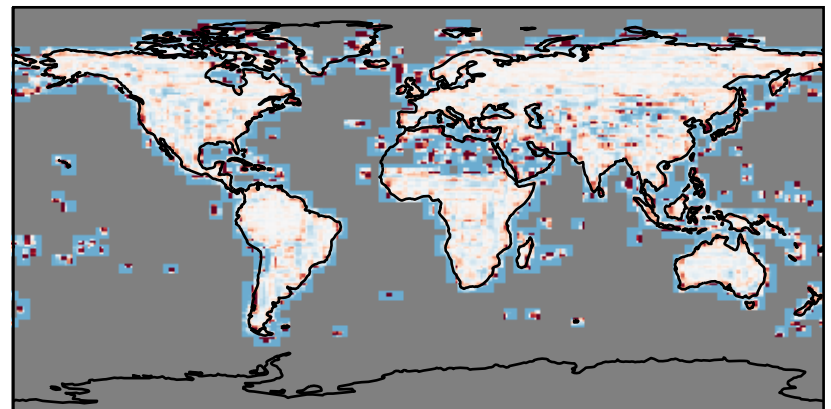kg/m2/s

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
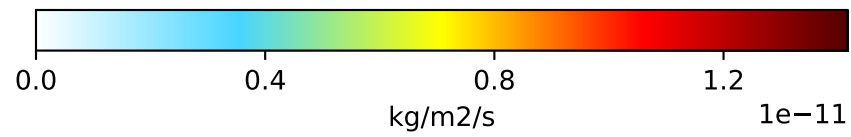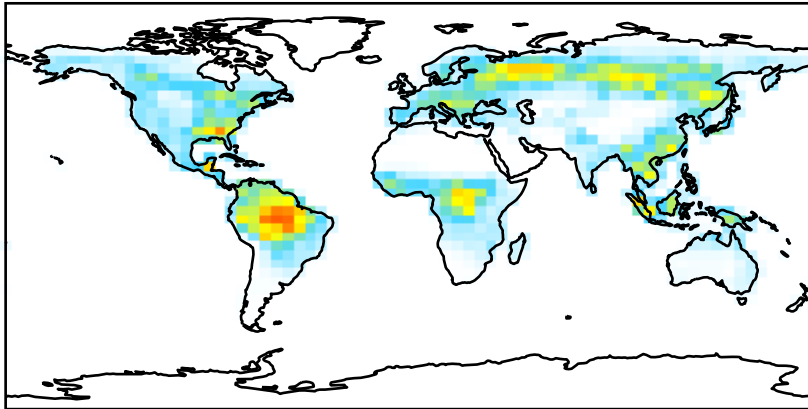kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
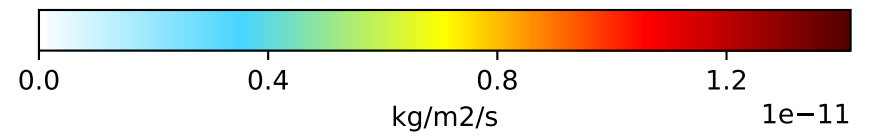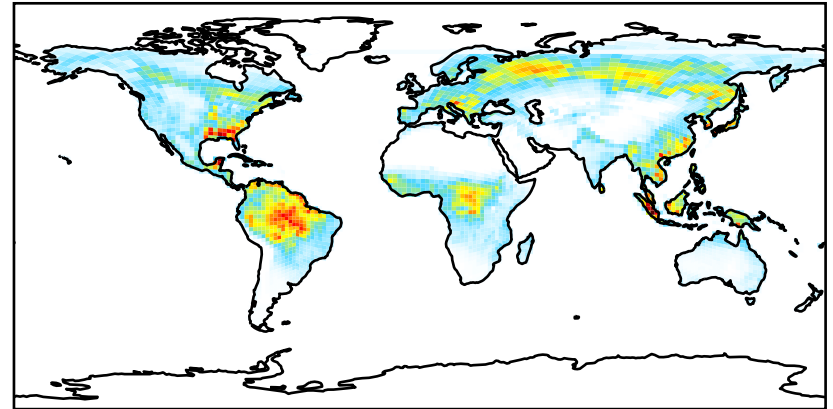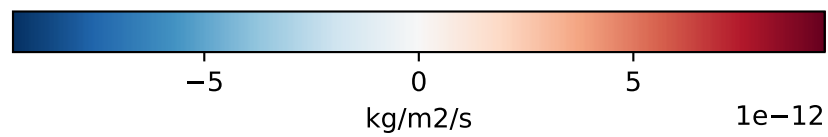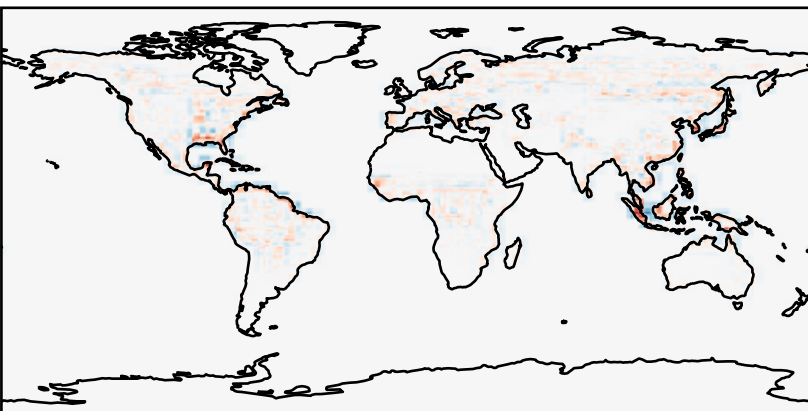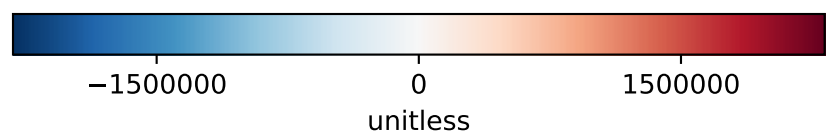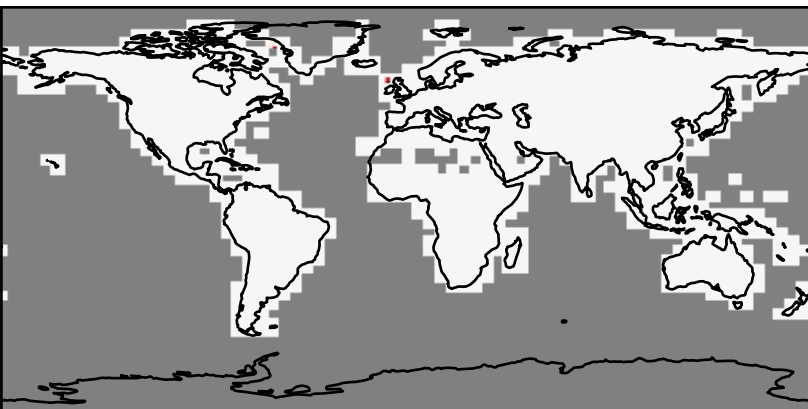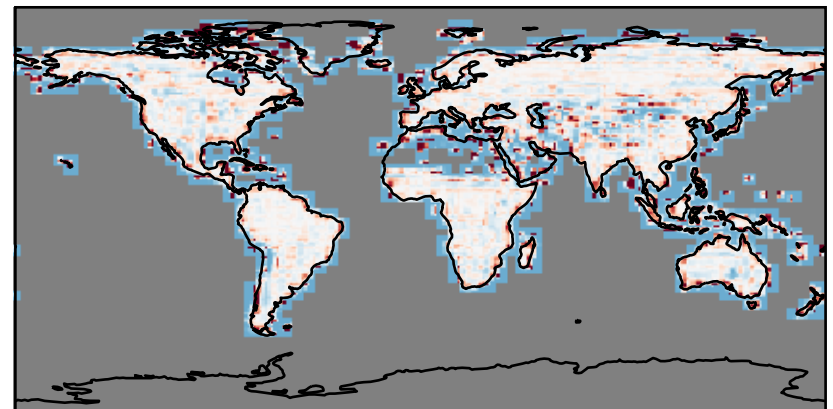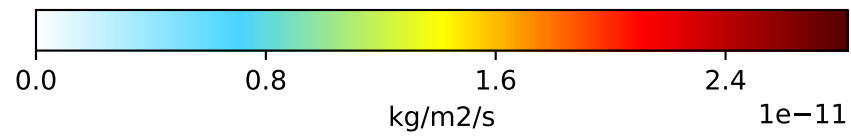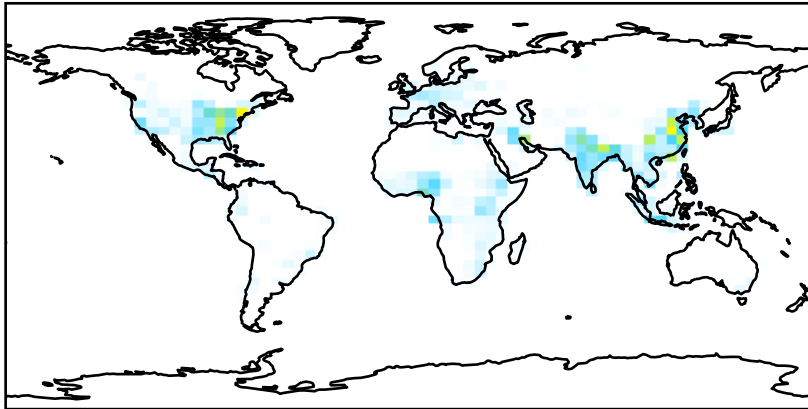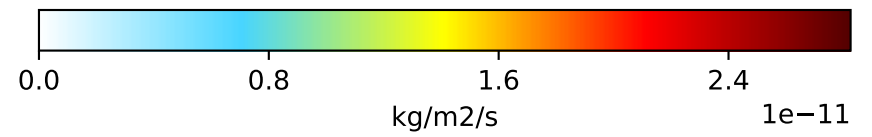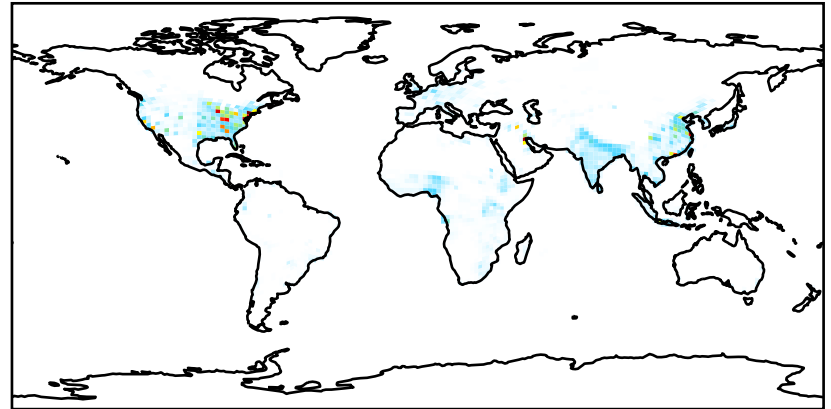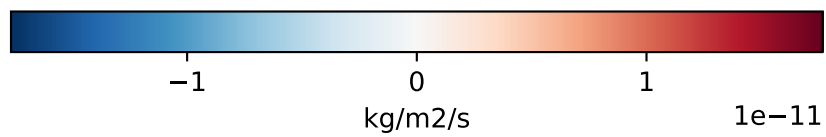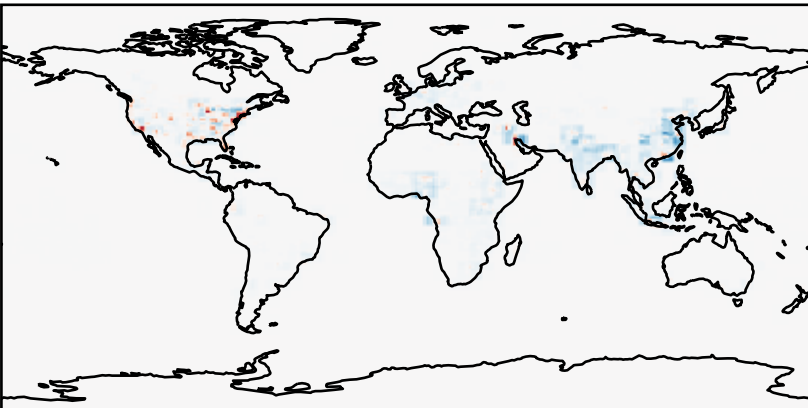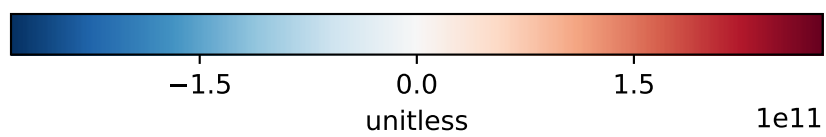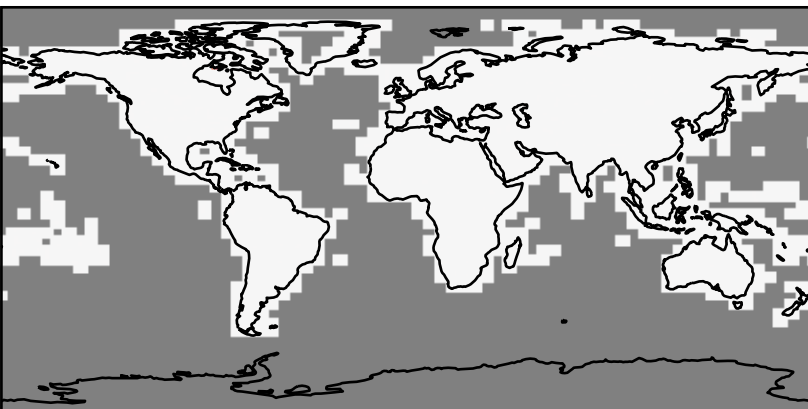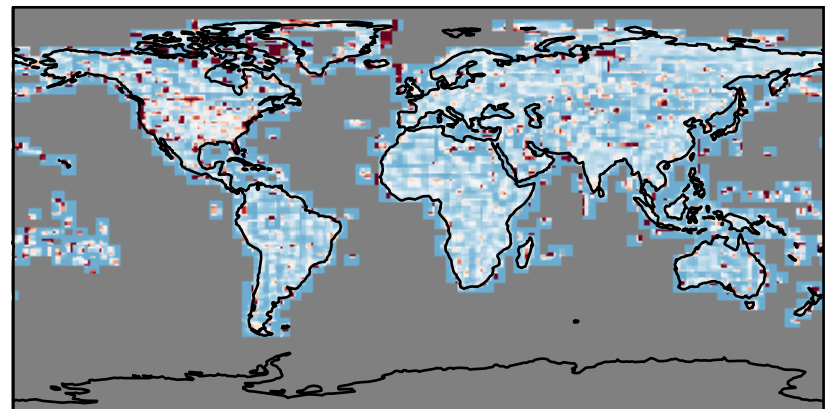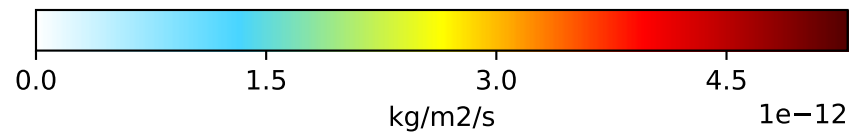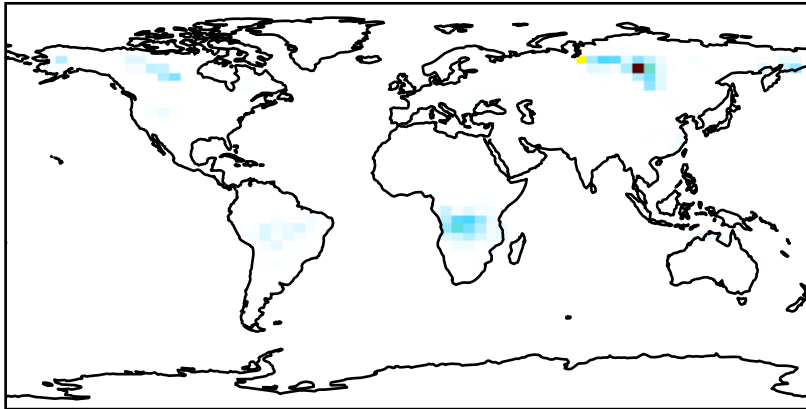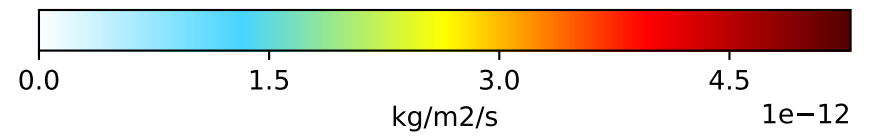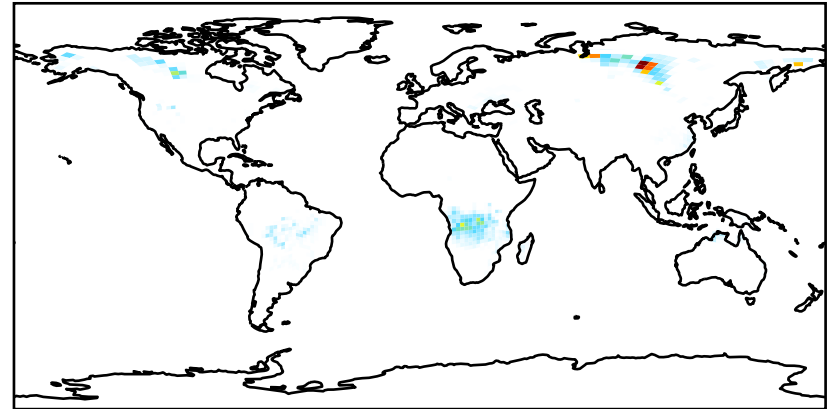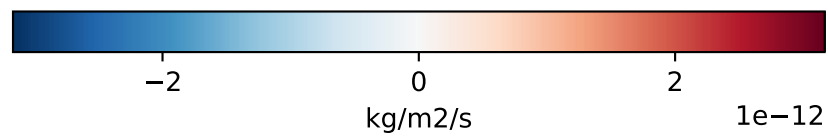unitless

Undefined throughout domain
unitless

EmisEOH_Total

EmisMOH_Anthro

EmisMOH_BioBurn

EmisMOH_Biogenic

EmisMOH_Ocean

GC_12.7.0 (Ref)
4x5
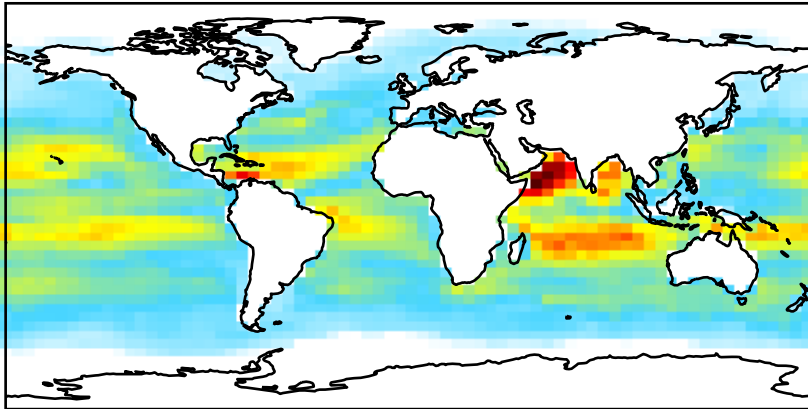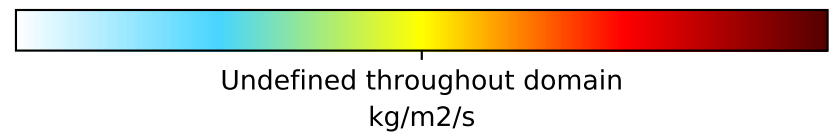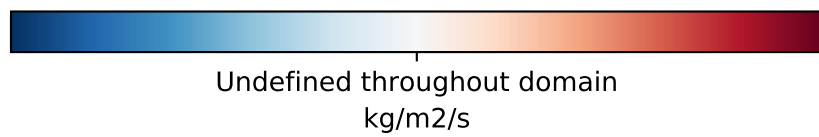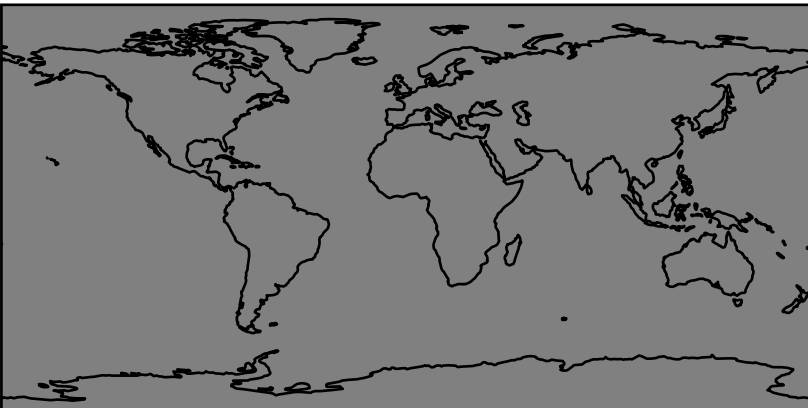
0   3   6   9
kg/m2/s   1e−13

GCHP_12.7.0 (Dev)
c48

Undefined throughout domain
kg/m2/s
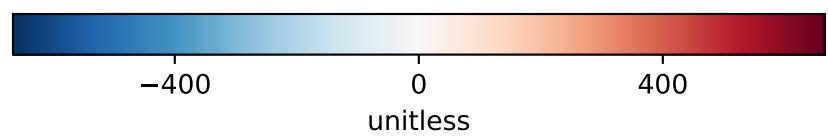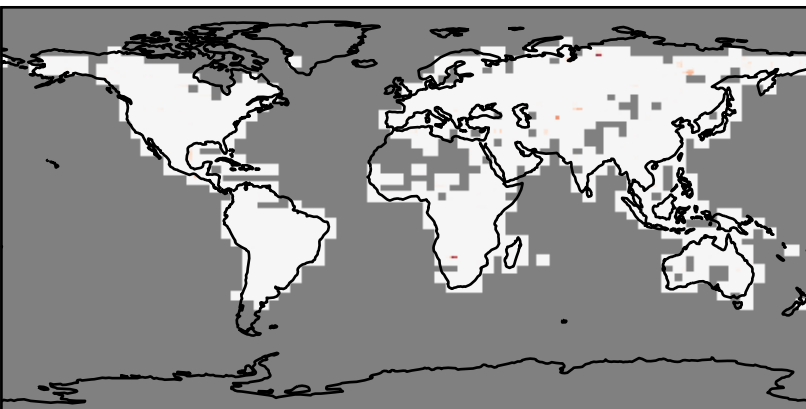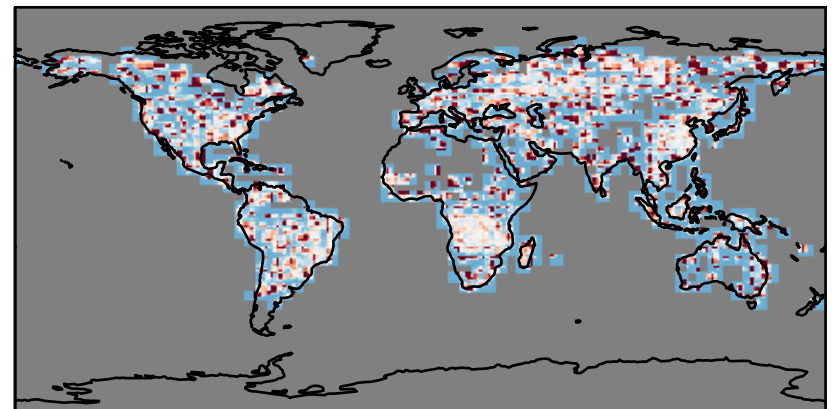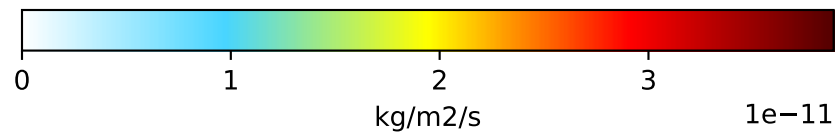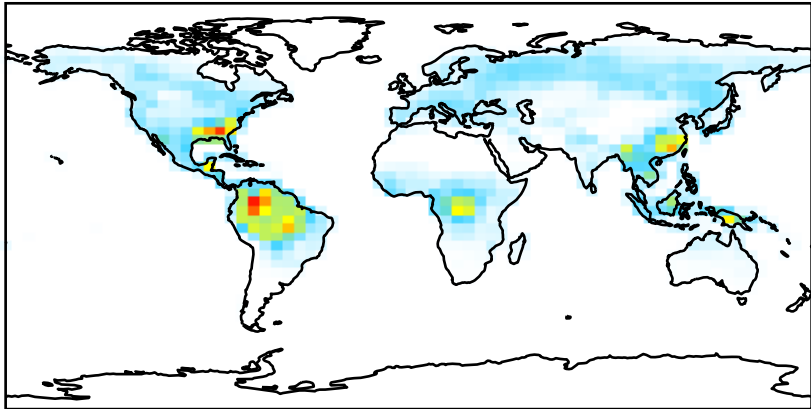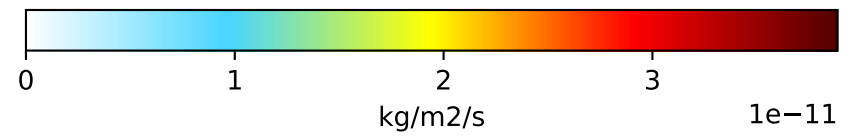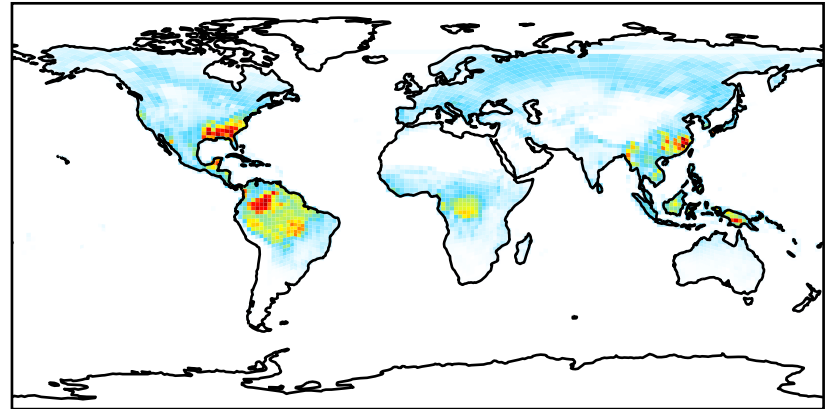
Difference (1x1.25)
Dev - Ref, Dynamic Range

Undefined throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Undefined throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range

Undefined throughout domain
unitless

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

Undefined throughout domain
unitless
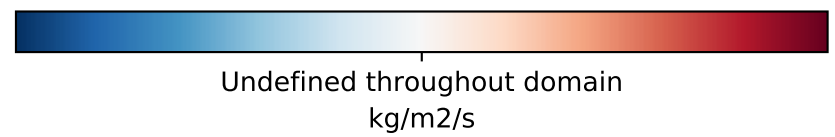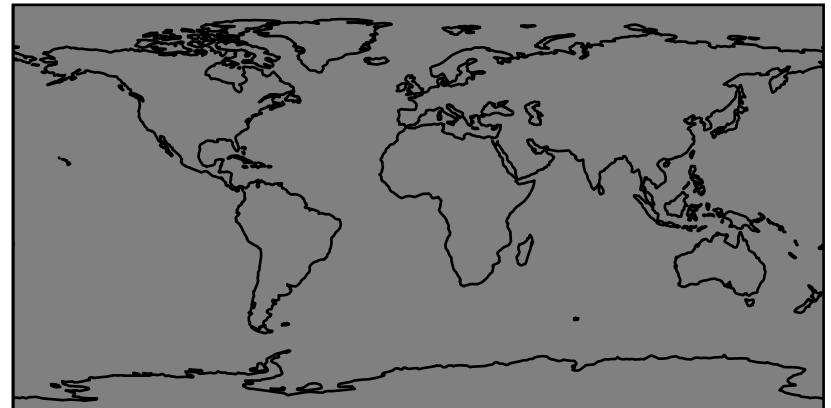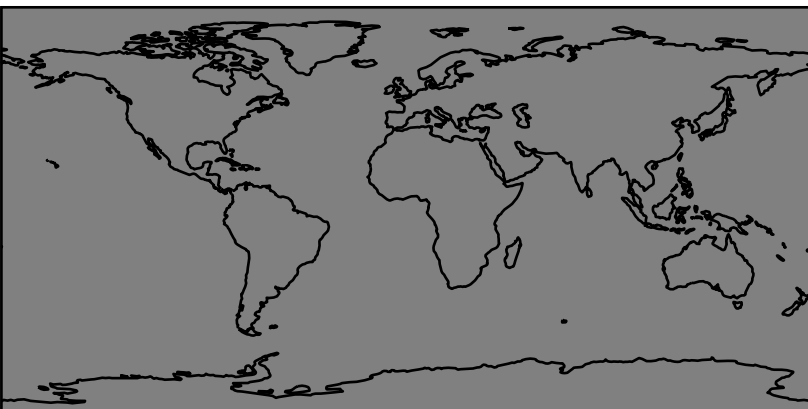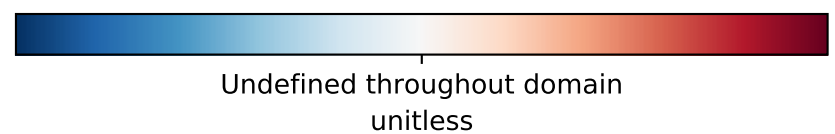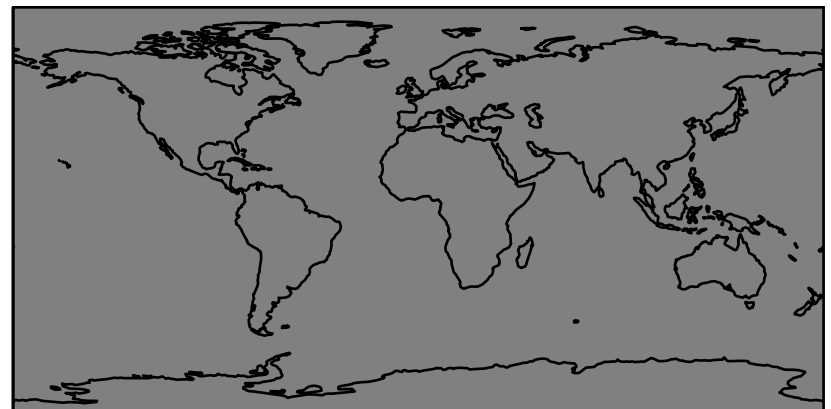
EmisMOH_Ship

GC_12.7.0 (Ref)
4x5

Zero throughout domain
kg/m2/s

GCHP_12.7.0 (Dev)
c48

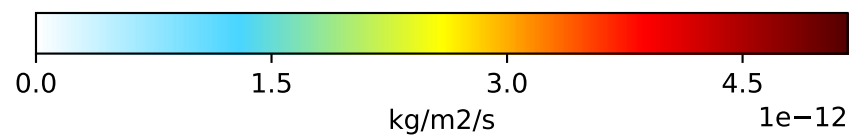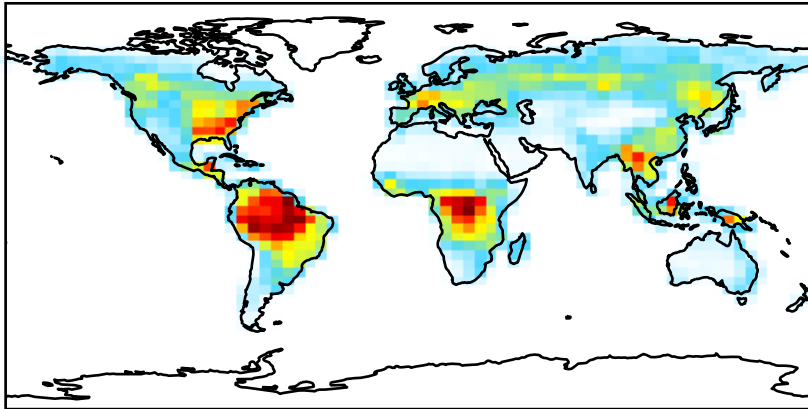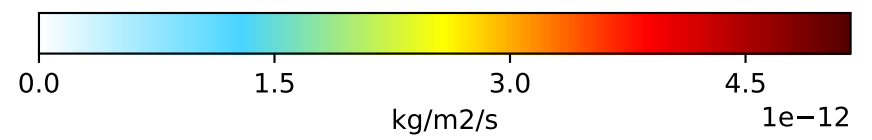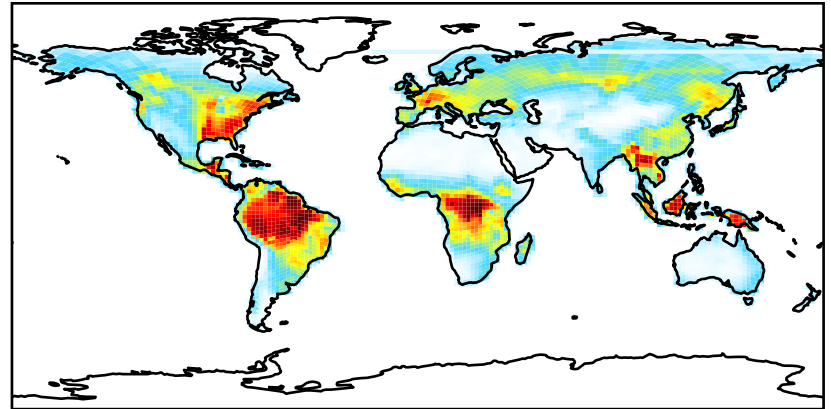Zero throughout domain
kg/m2/s
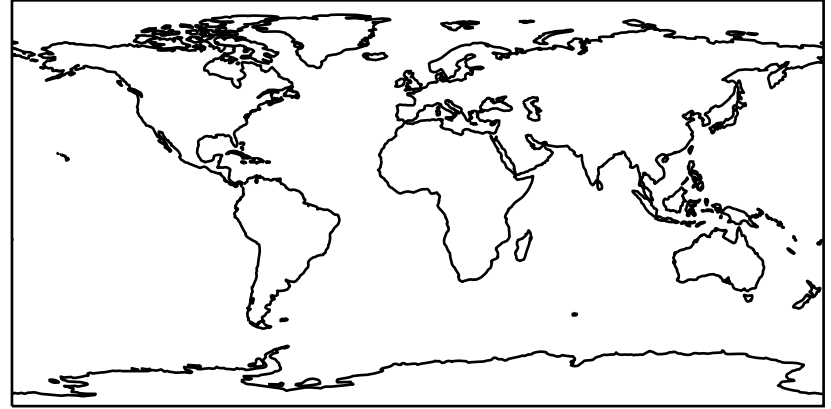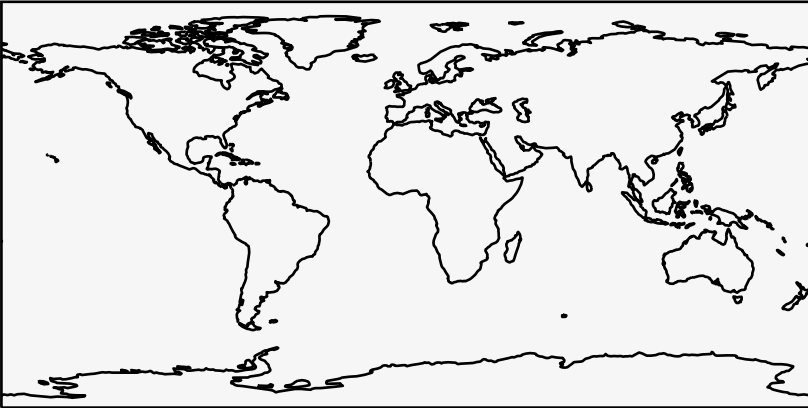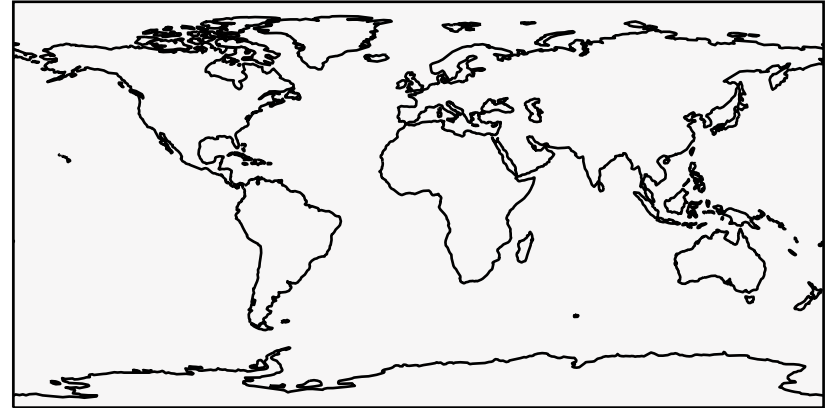
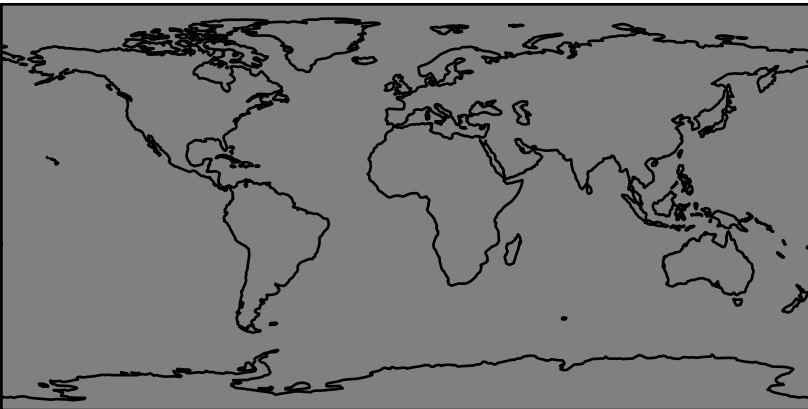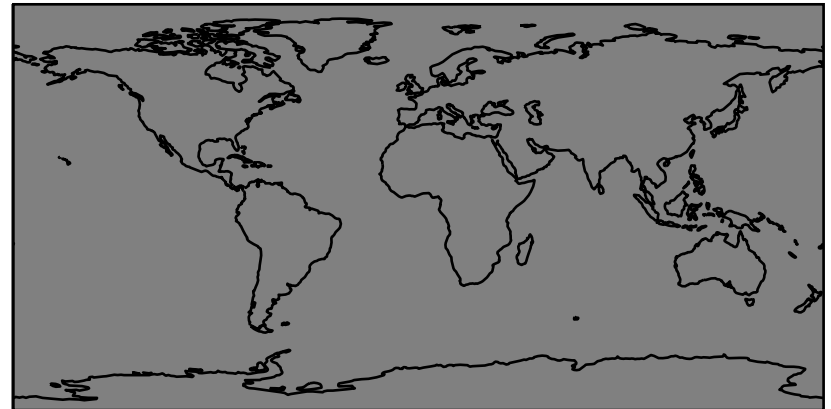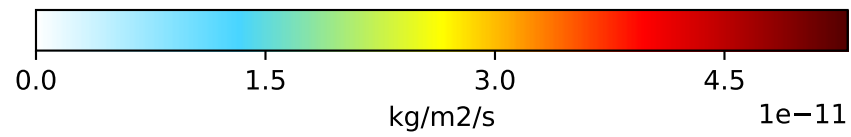## Difference (1x1.25)
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range
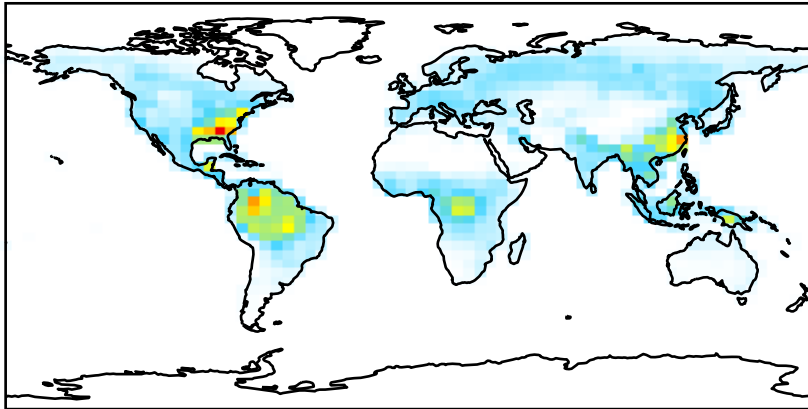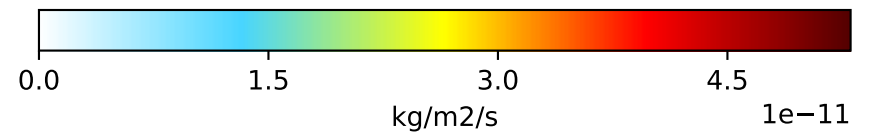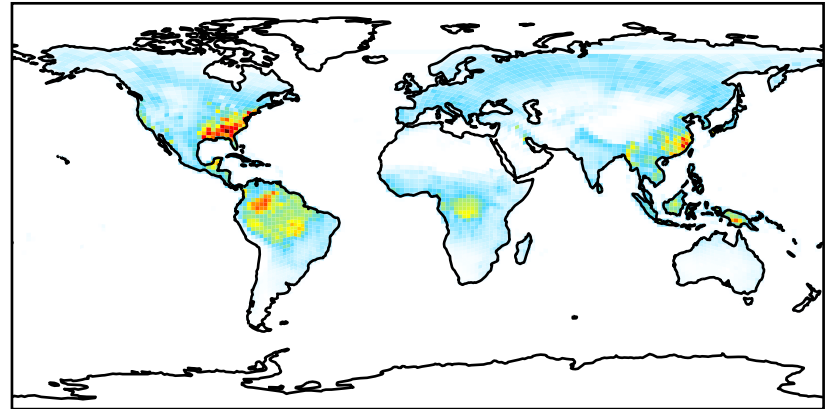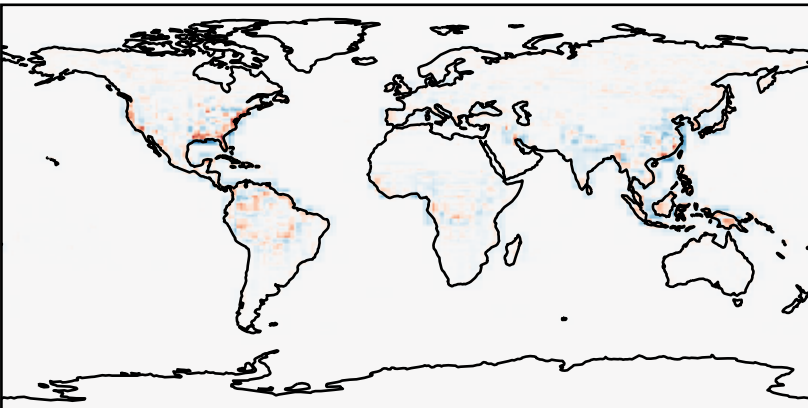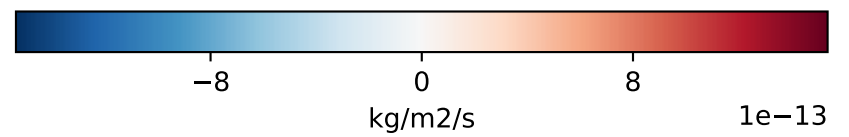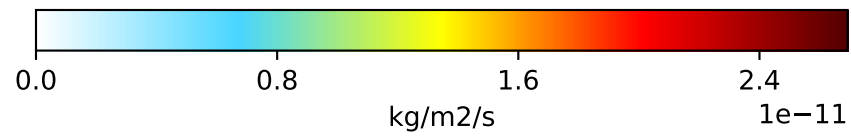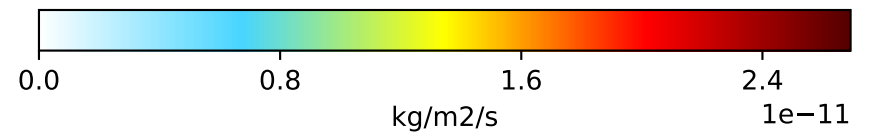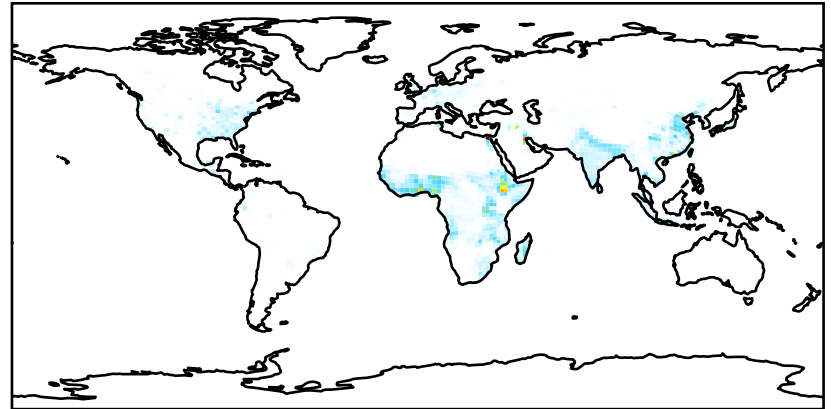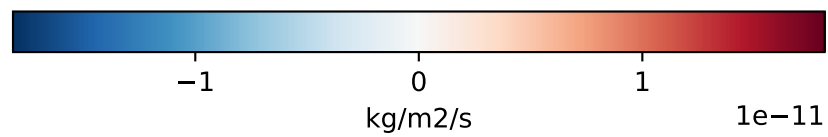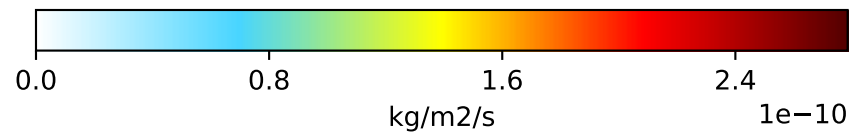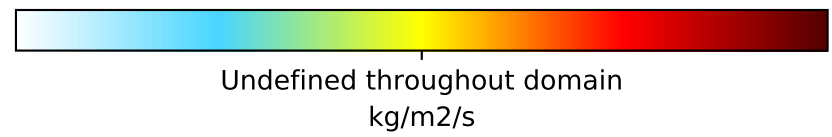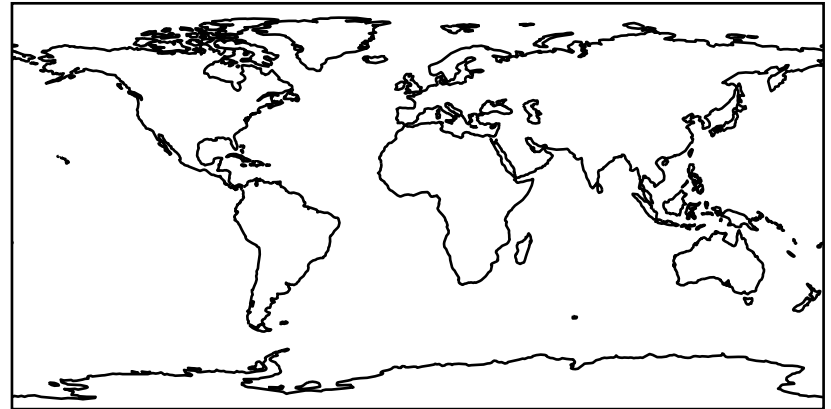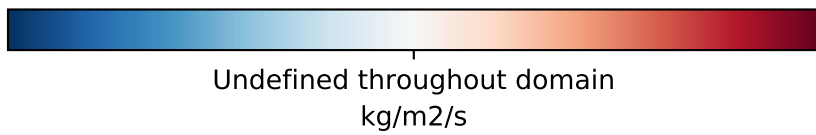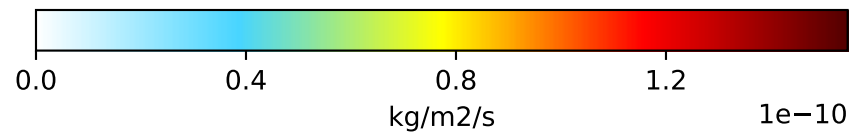

Undefined throughout domain
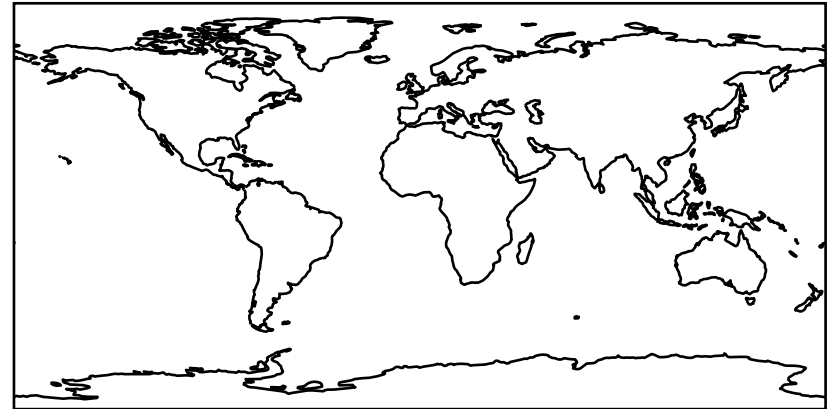unitless

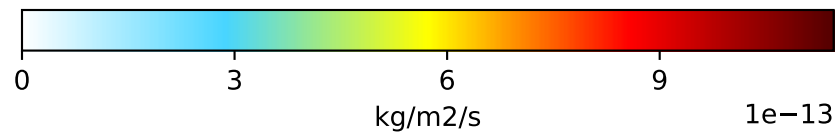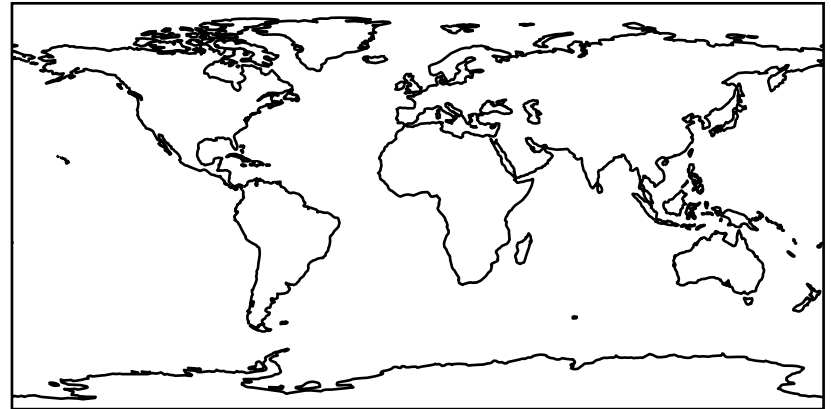## Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

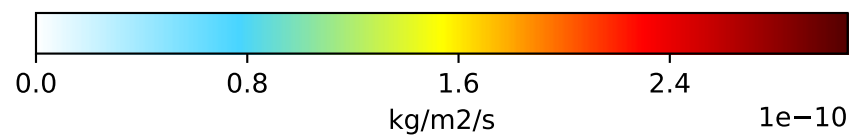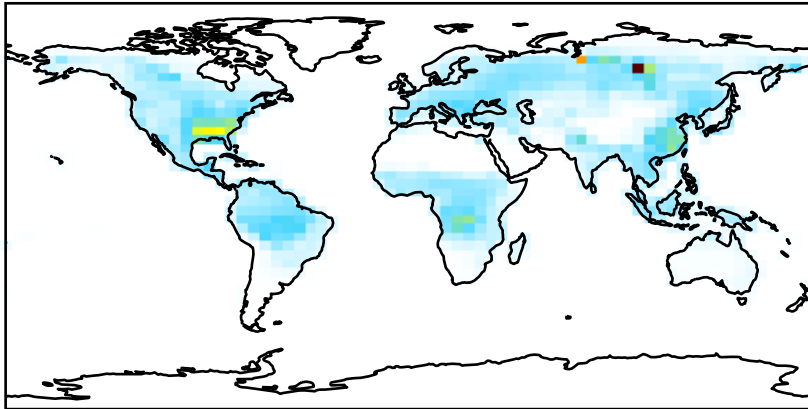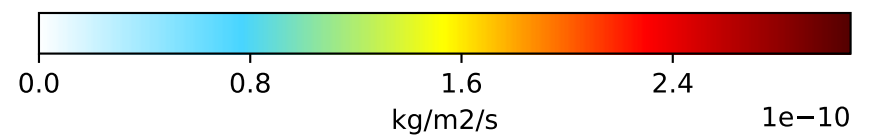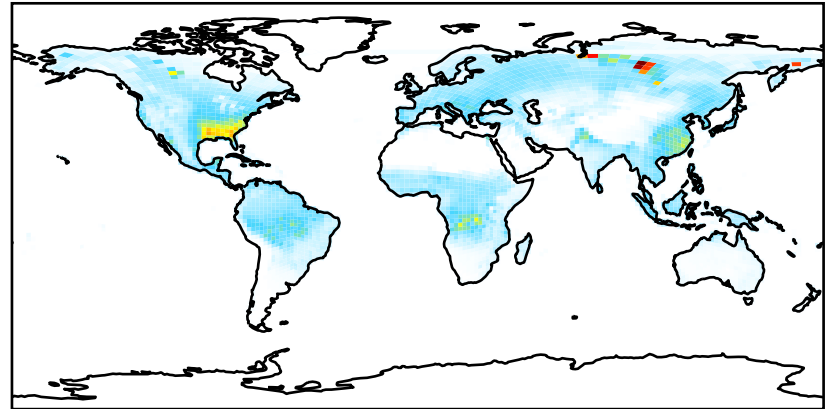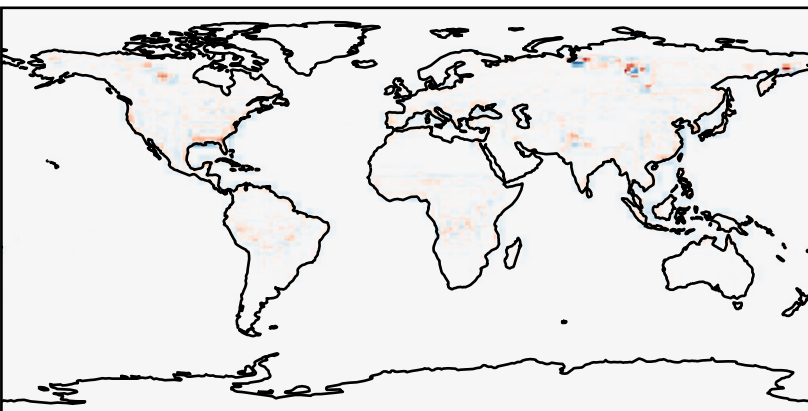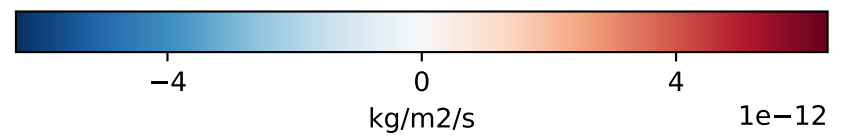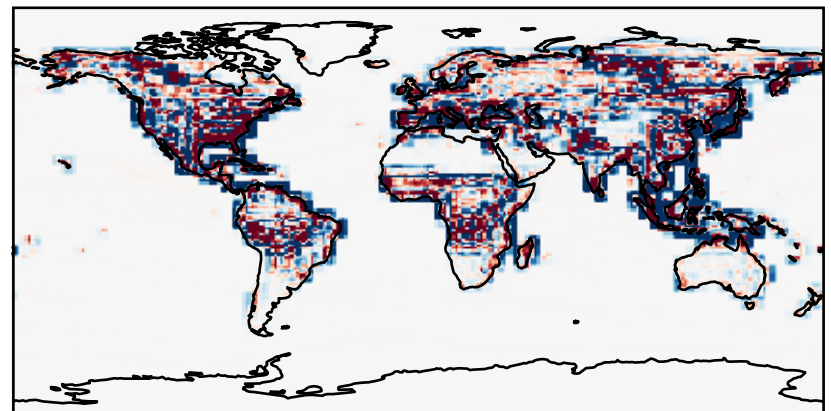Undefined throughout domain
unitless

EmisMOH_Total