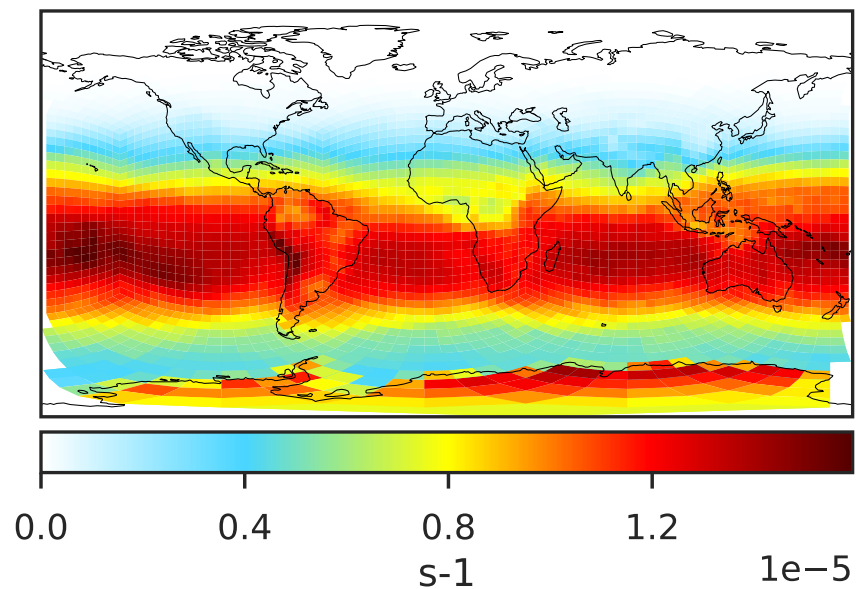
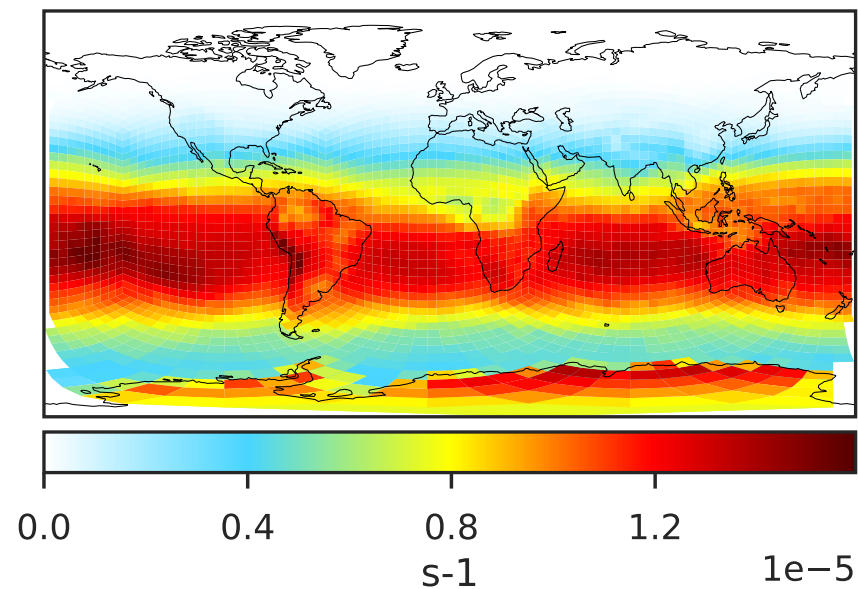


Jval0301D (Jan2019)

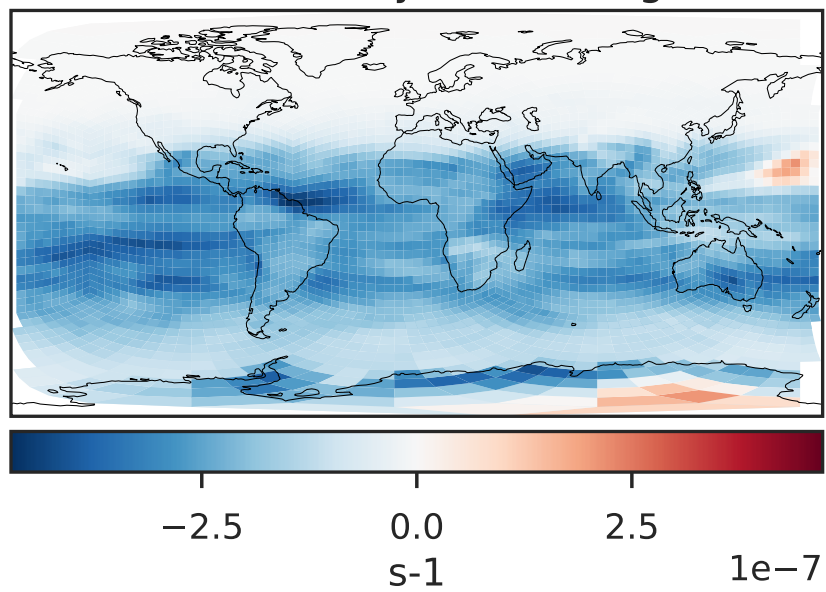
GCHP_14.0.0 (Ref)
c24



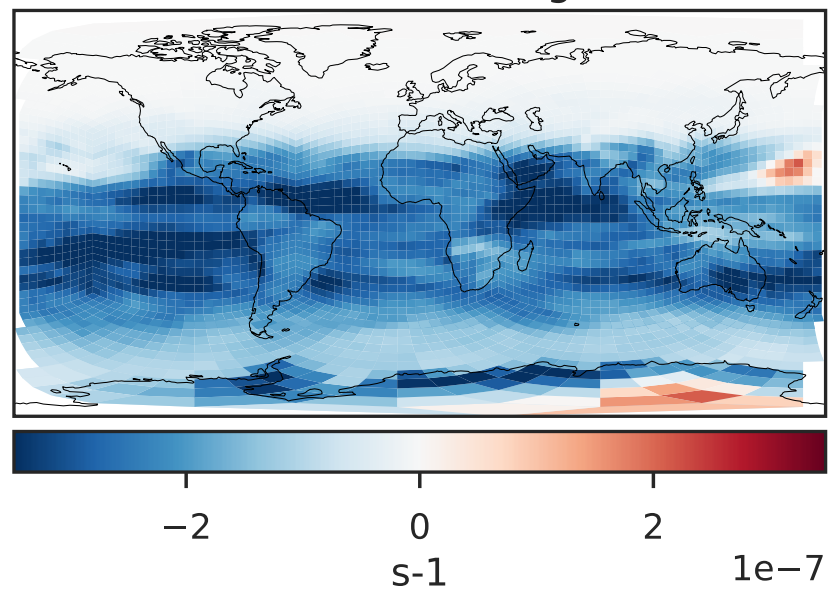
GCHP_14.2.0 (Dev)
c24



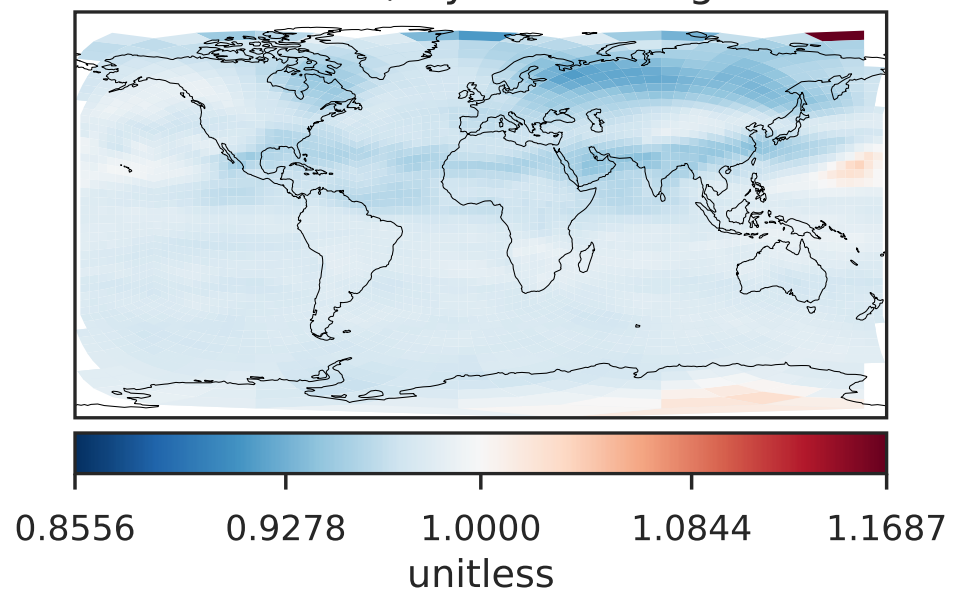
Difference
Dev - Ref, Dynamic Range



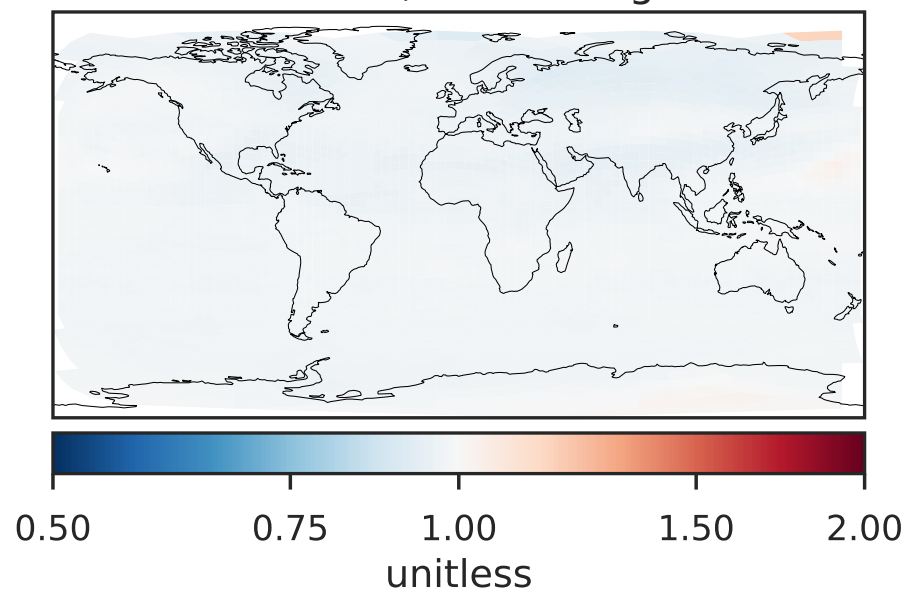
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

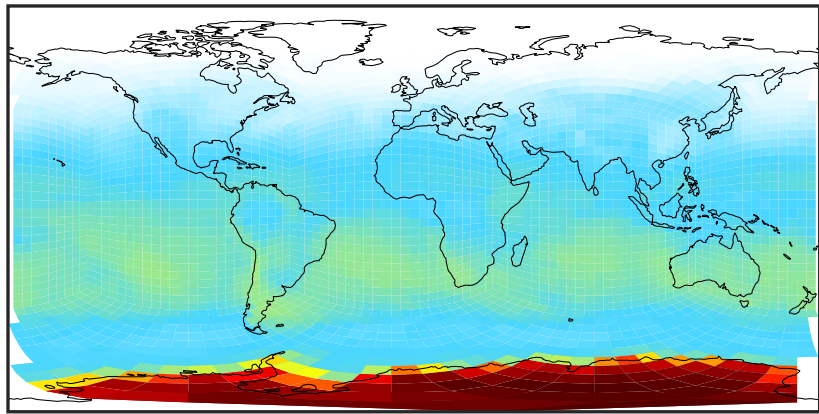


Ratio
Dev/Ref, Fixed Range



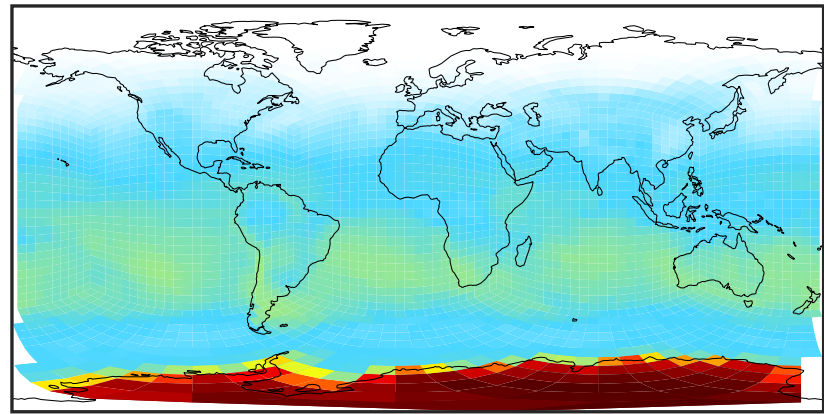
JvalO3O3P (Jan2019)

GCHP_14.0.0 (Ref)
c24



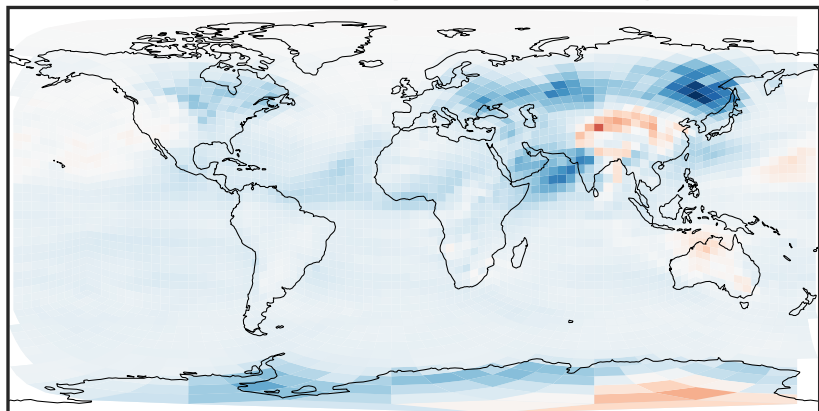
0.0000 0.0002 0.0004 0.0006
s-1

GCHP_14.2.0 (Dev)
c24



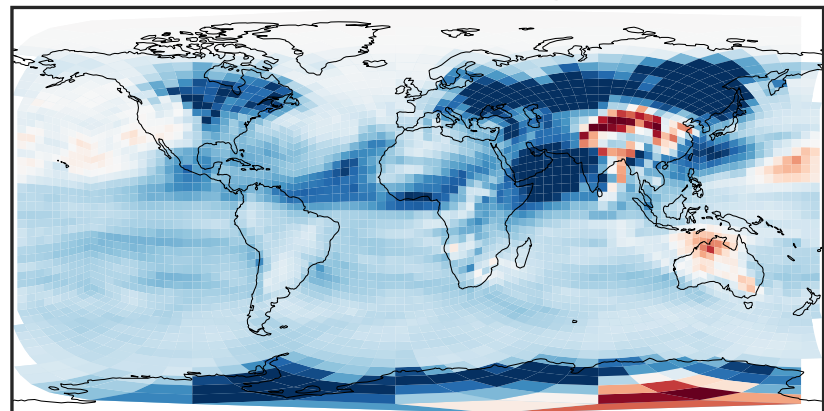
0.0000 0.0002 0.0004 0.0006
s-1

Difference
Dev - Ref, Dynamic Range



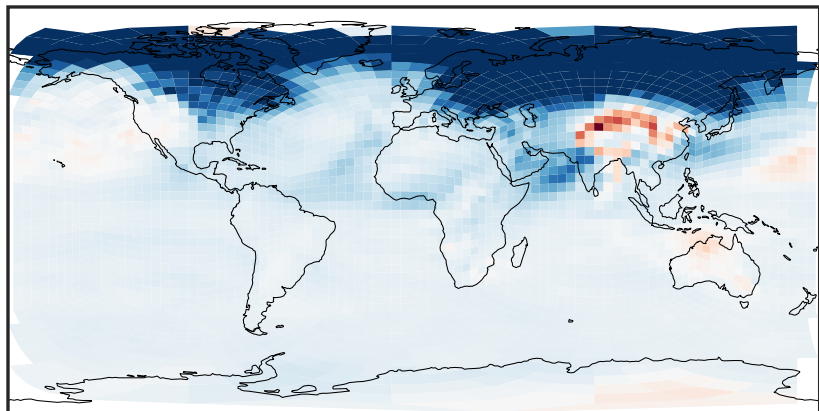
-8 0 8
s-1 1e-7

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



-3 0 3
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.99092 0.99546 1.00000 1.00458 1.00916
unitless

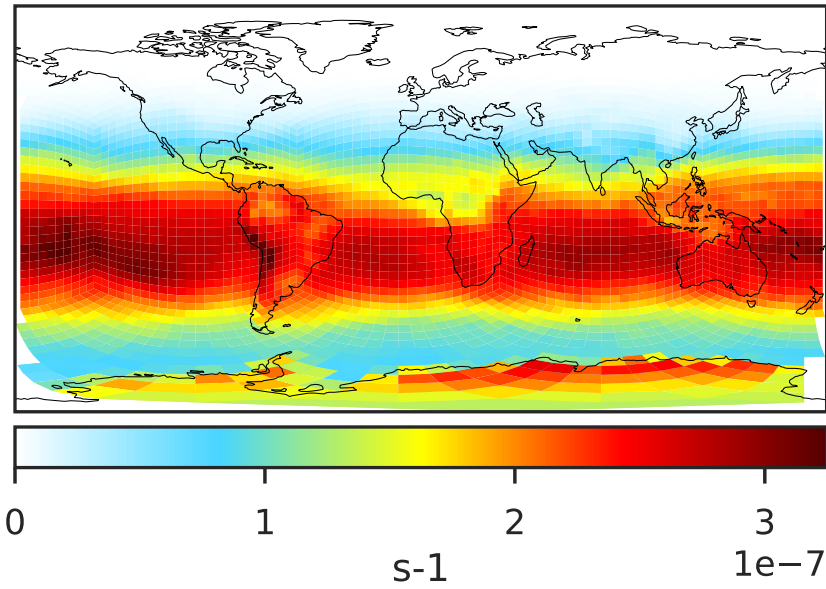
Ratio
Dev/Ref, Fixed Range



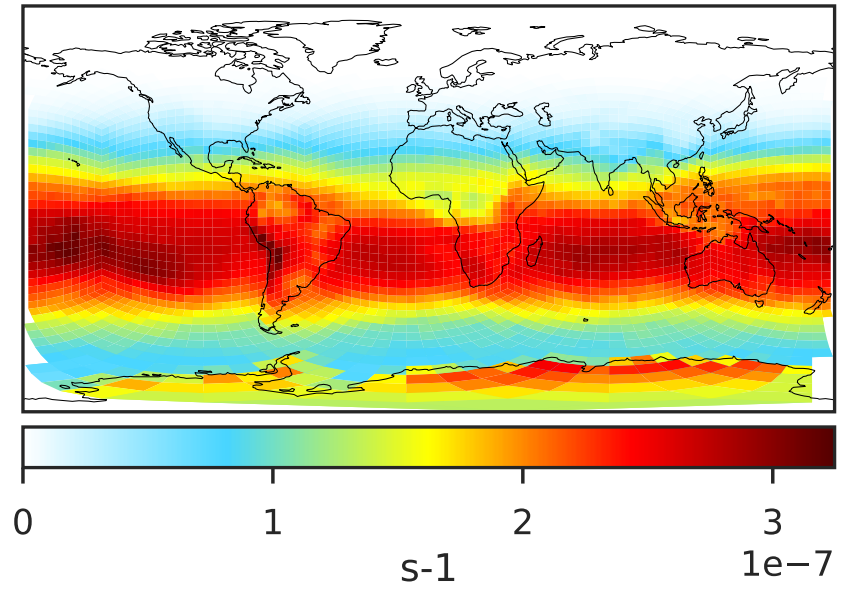
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ACET (Jan2019)

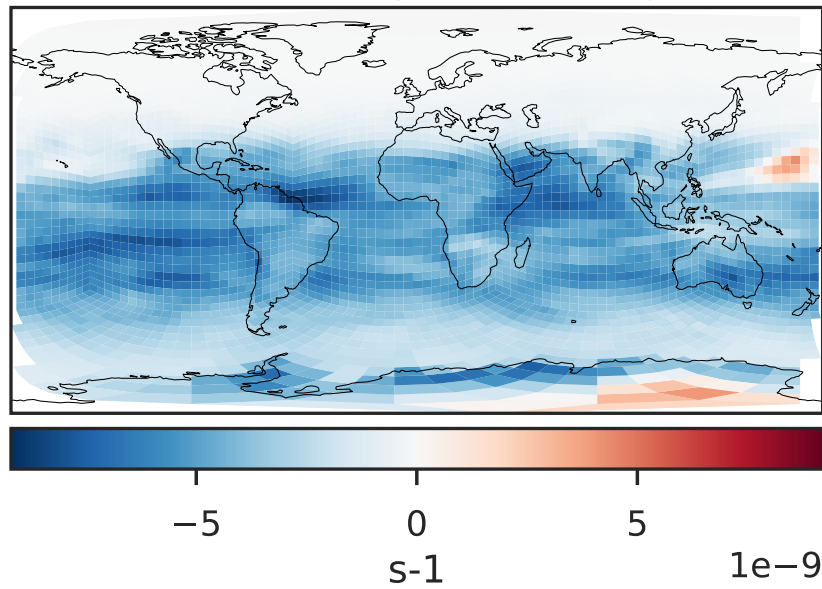
GCHP_14.0.0 (Ref)
c24



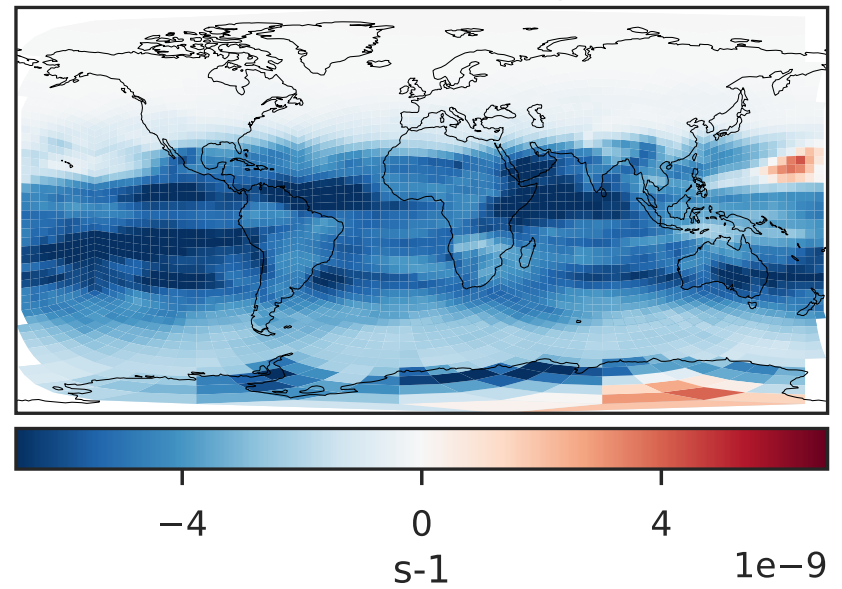
GCHP_14.2.0 (Dev)
c24



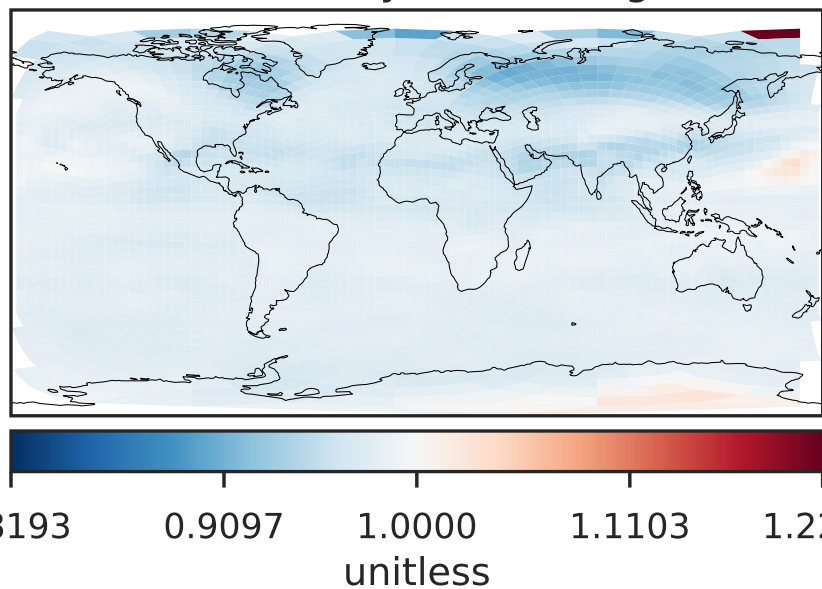
Difference
Dev - Ref, Dynamic Range



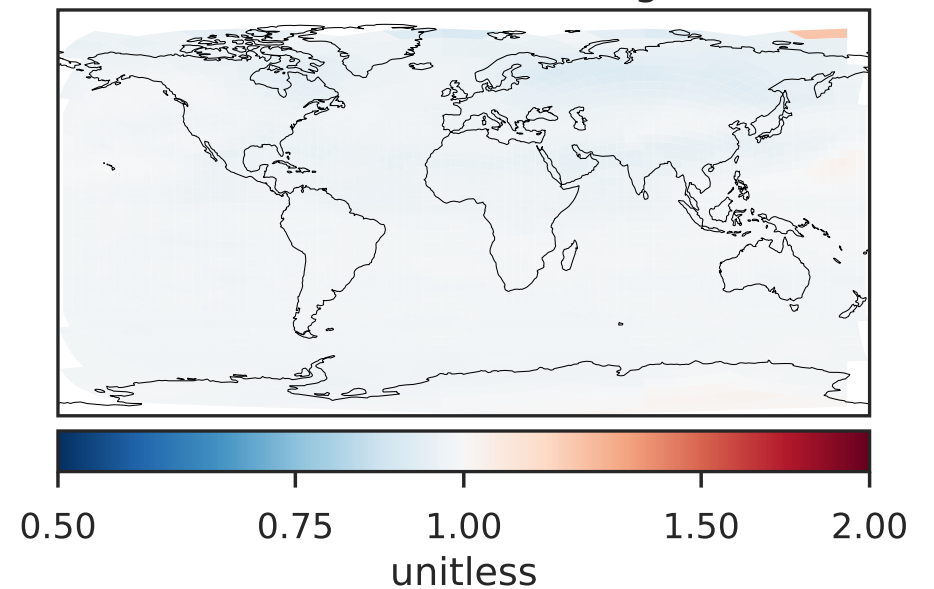
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

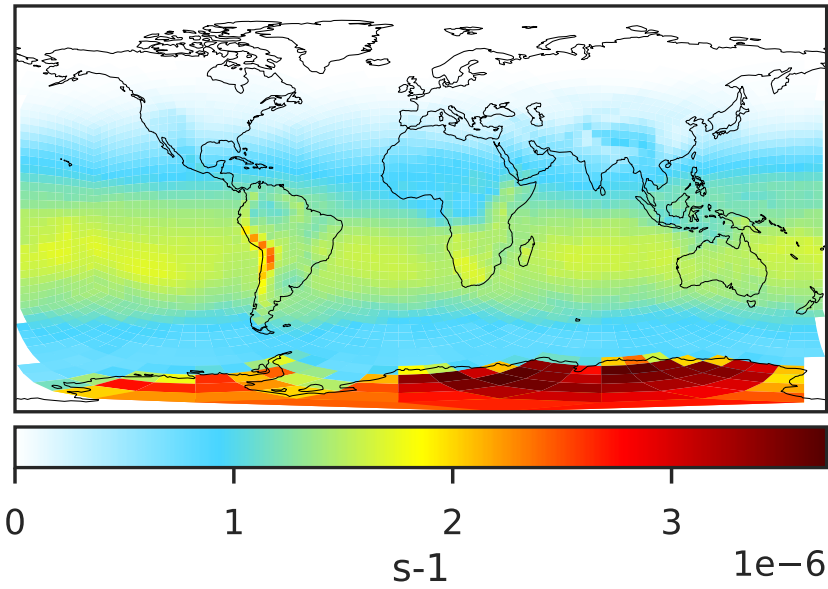


Ratio
Dev/Ref, Fixed Range

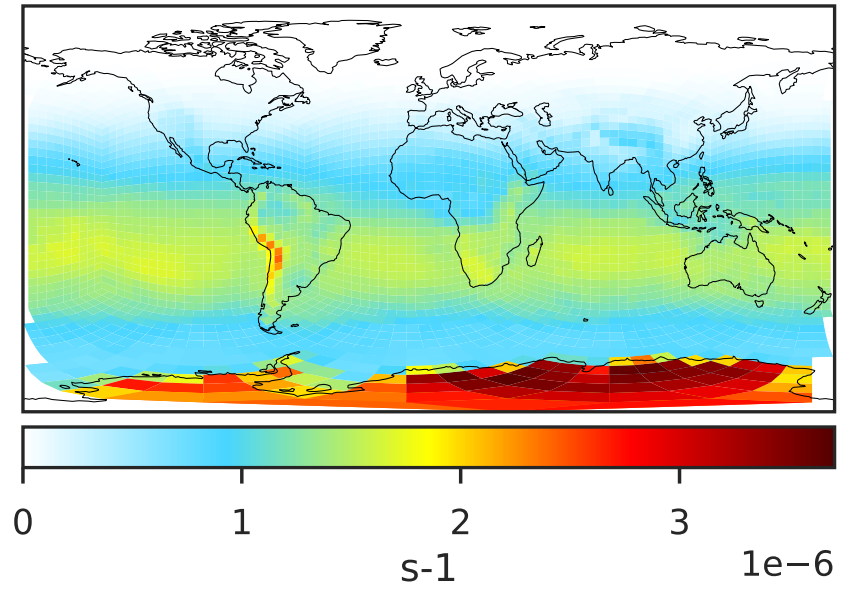


Jval_ALD2 (Jan2019)

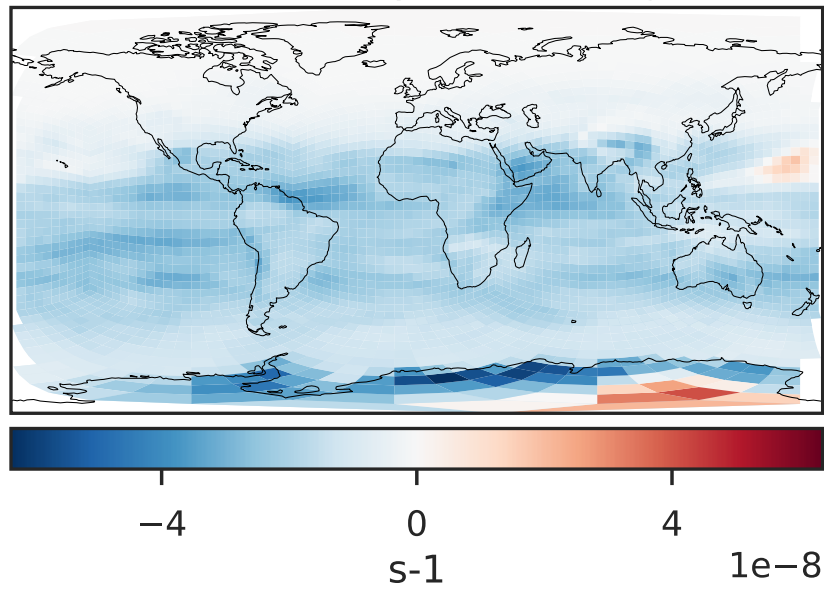
GCHP_14.0.0 (Ref)
c24



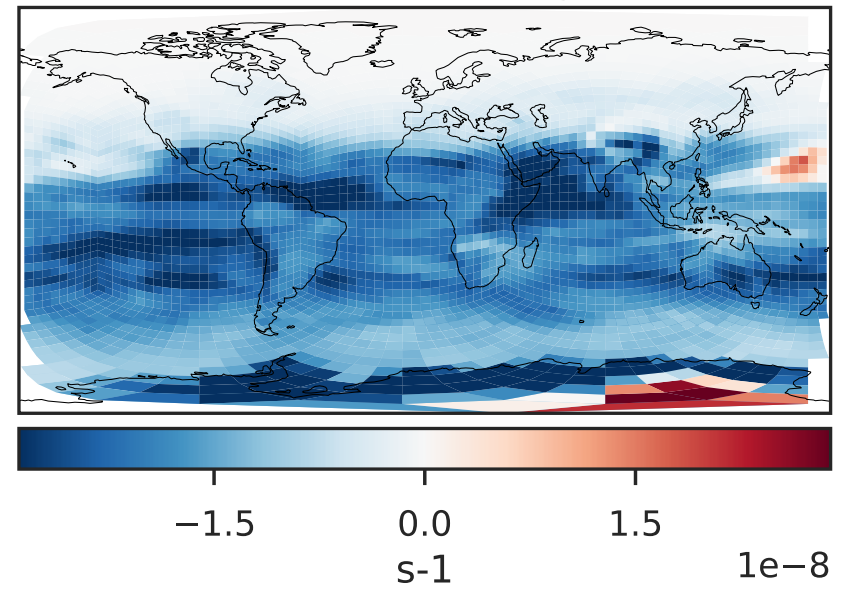
GCHP_14.2.0 (Dev)
c24



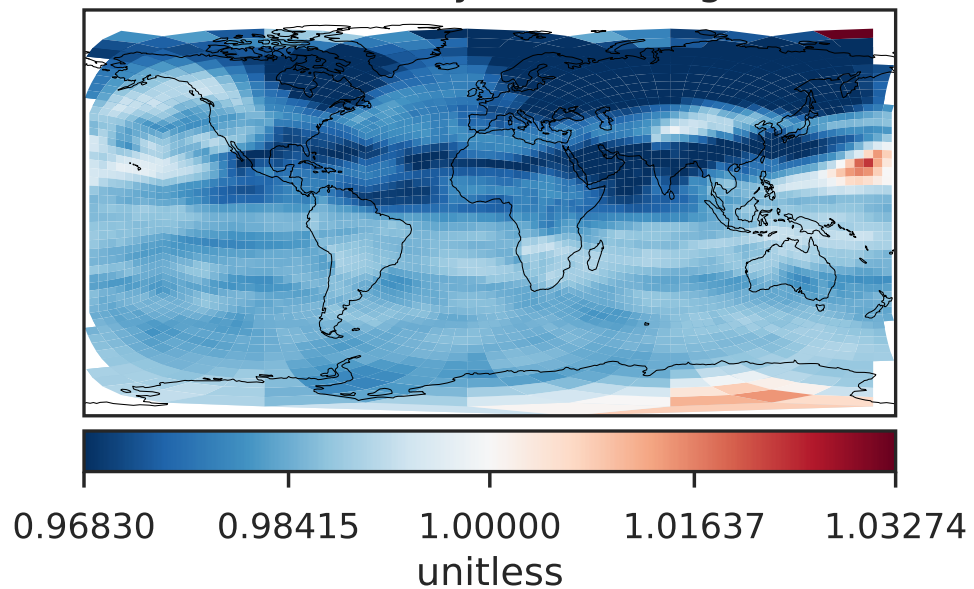
Difference
Dev - Ref, Dynamic Range



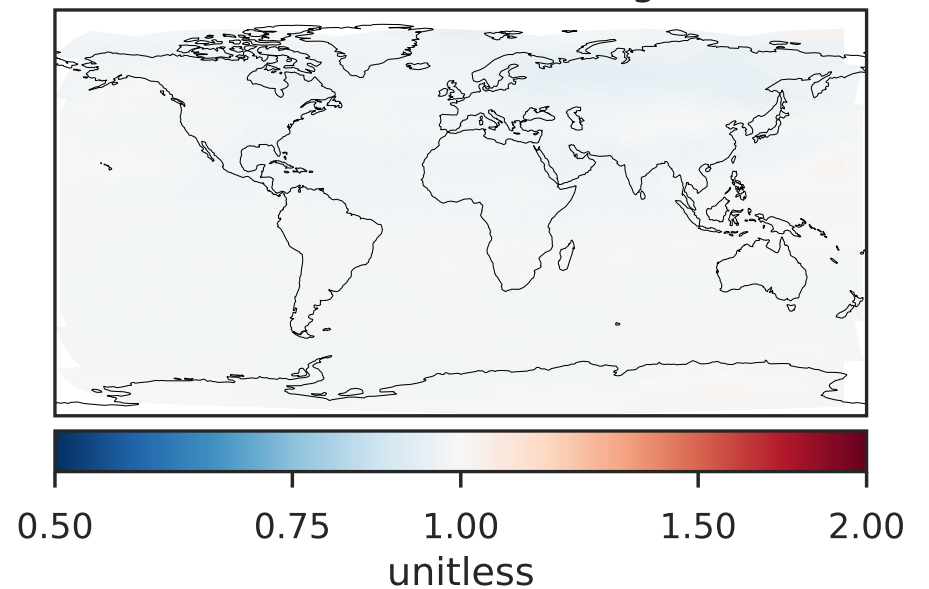
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

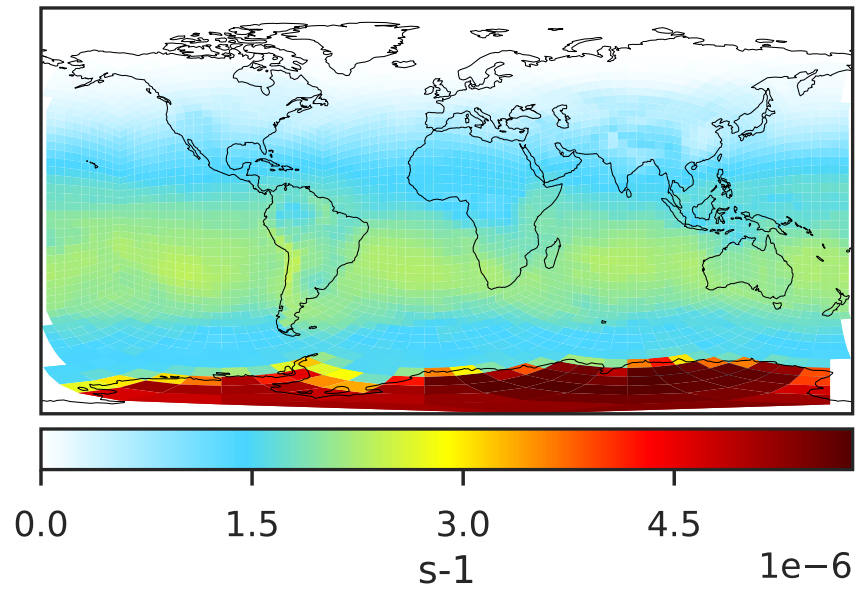


Ratio
Dev/Ref, Fixed Range

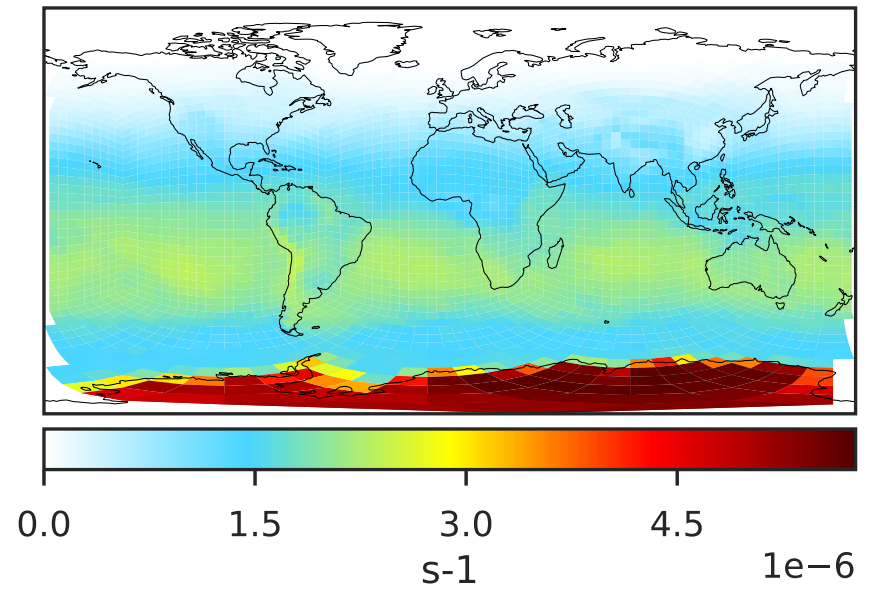


Jval_ATOOH (Jan2019)

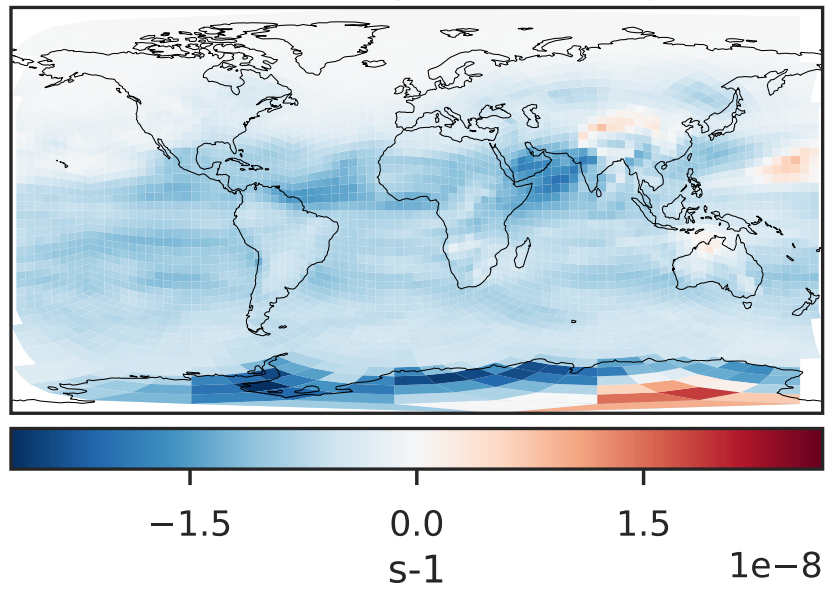
GCHP_14.0.0 (Ref)
c24



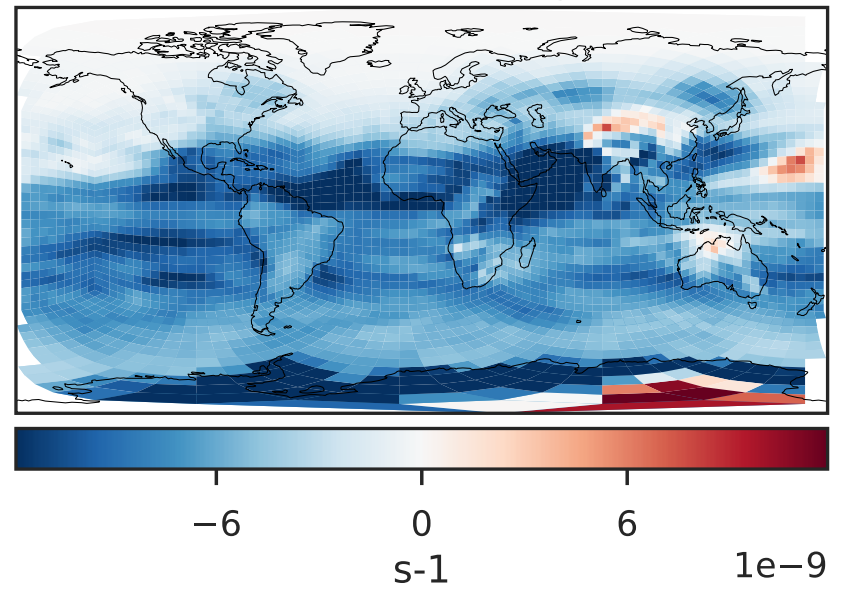
GCHP_14.2.0 (Dev)
c24



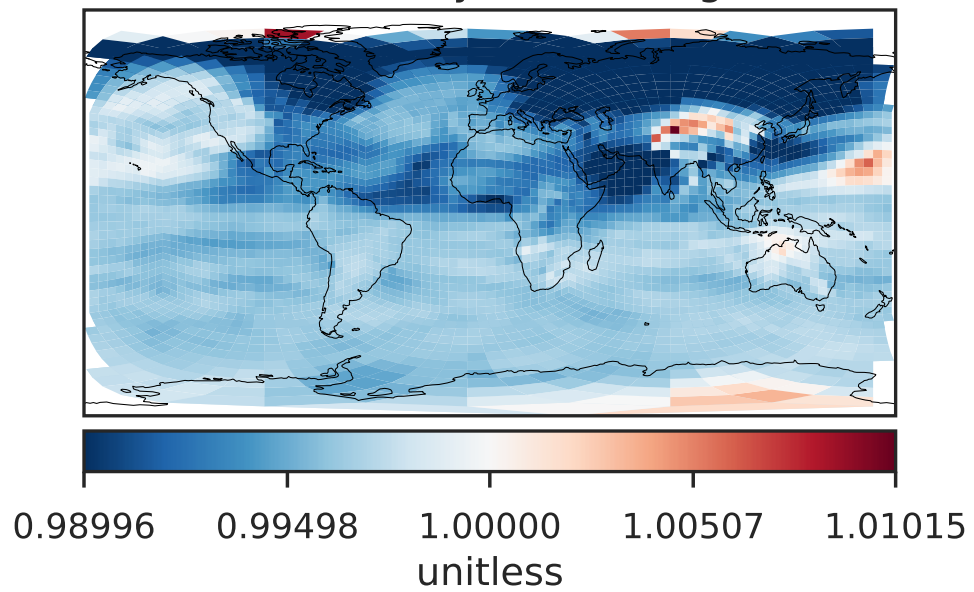
Difference
Dev - Ref, Dynamic Range



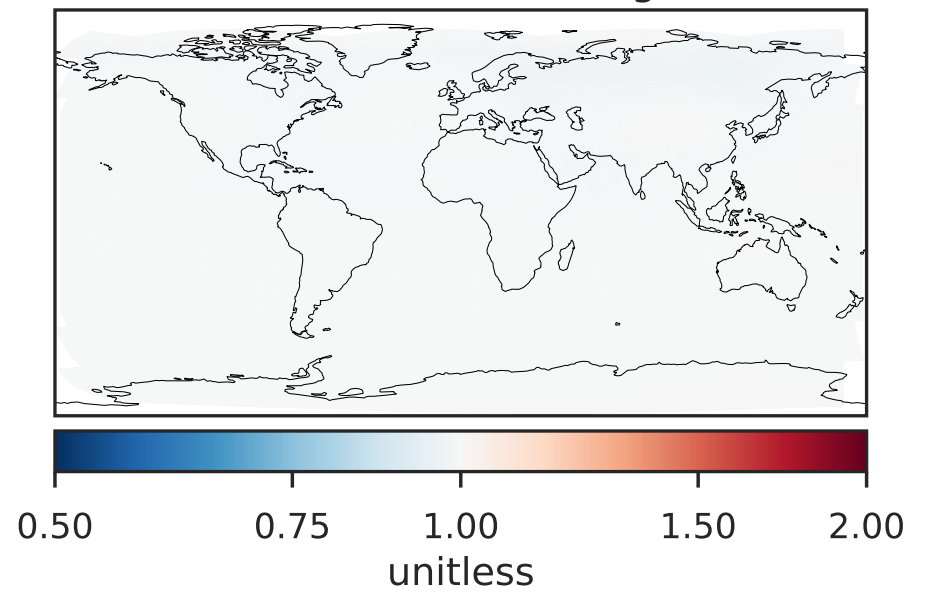
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



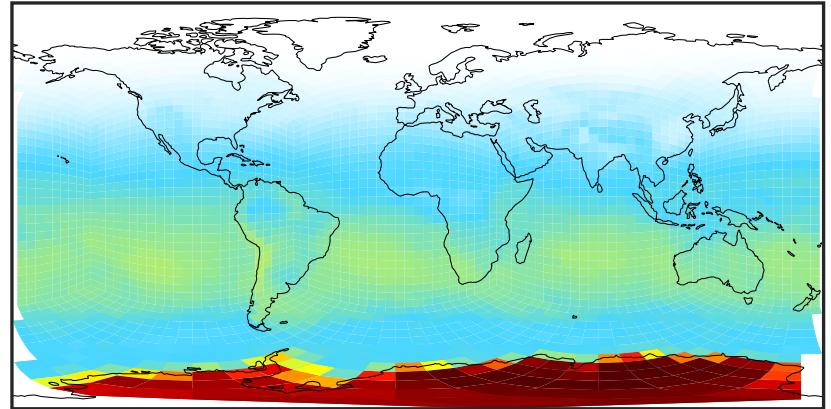
Jval_BALD (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



0.0 0.8 1.6 2.4
s-1 $1e-5$

Difference
Dev - Ref, Dynamic Range



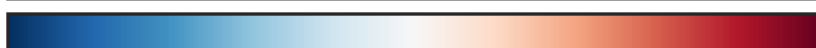
Undefined throughout domain
s-1

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



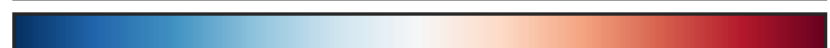
Undefined throughout domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

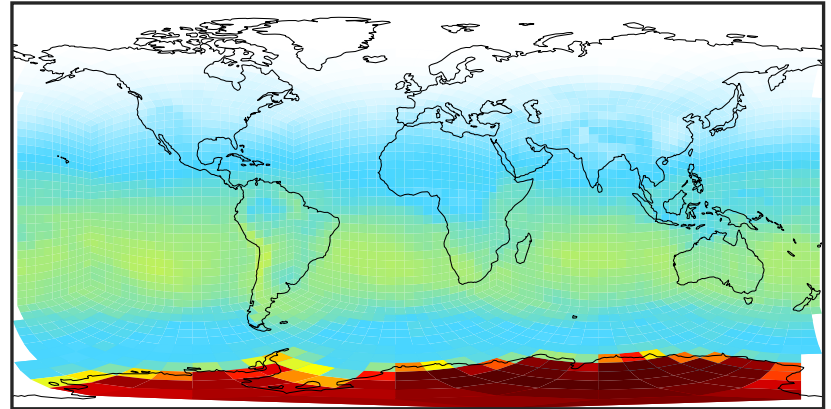
Jval_BENZP (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



0.0 1.5 3.0 4.5
s-1 1e-6

Difference
Dev - Ref, Dynamic Range



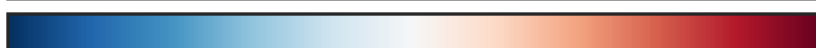
Undefined throughout domain
s-1

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



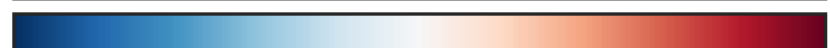
Undefined throughout domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

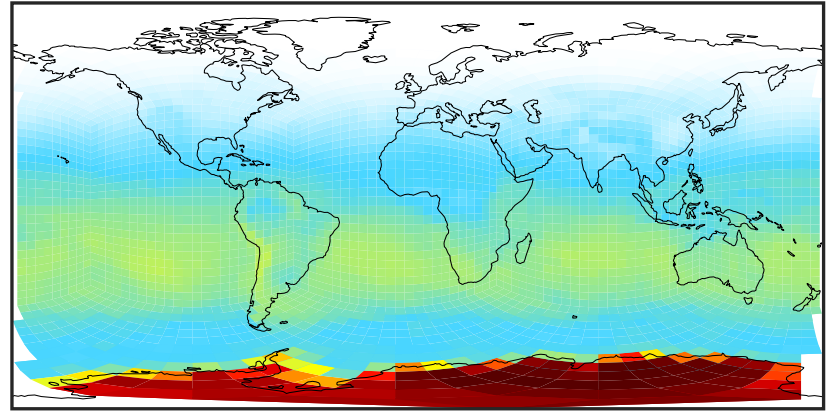
Jval_BZCO3H (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



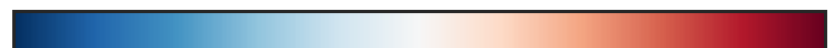
0.0 1.5 3.0 4.5
s-1 $1e-6$

Difference
Dev - Ref, Dynamic Range



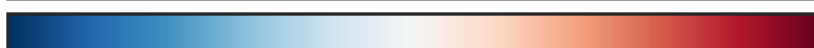
Undefined throughout domain
s-1

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



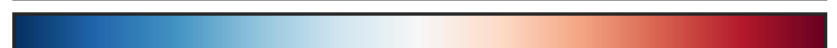
Undefined throughout domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

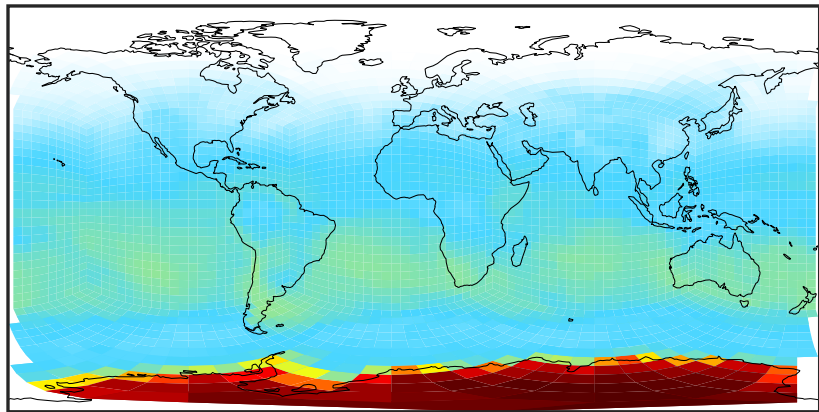
Ratio
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

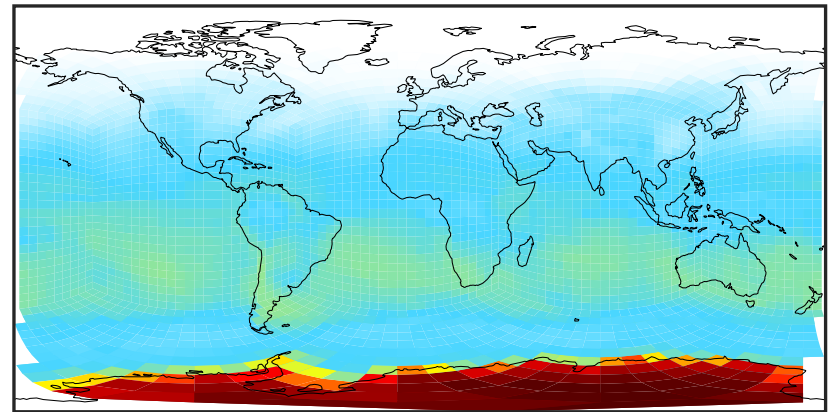
Jval_Br2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



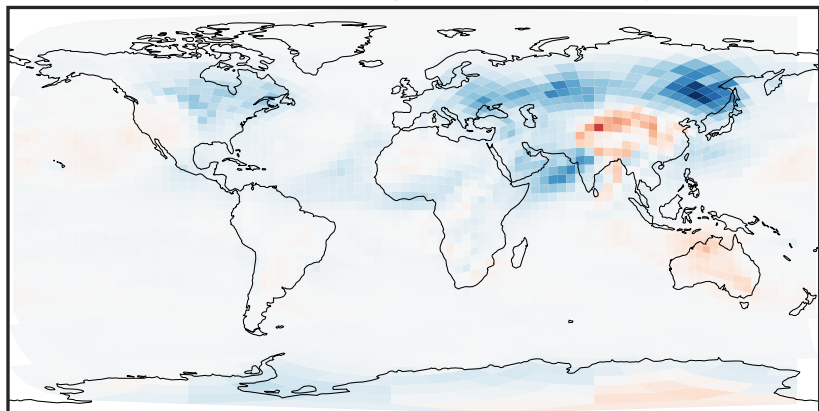
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



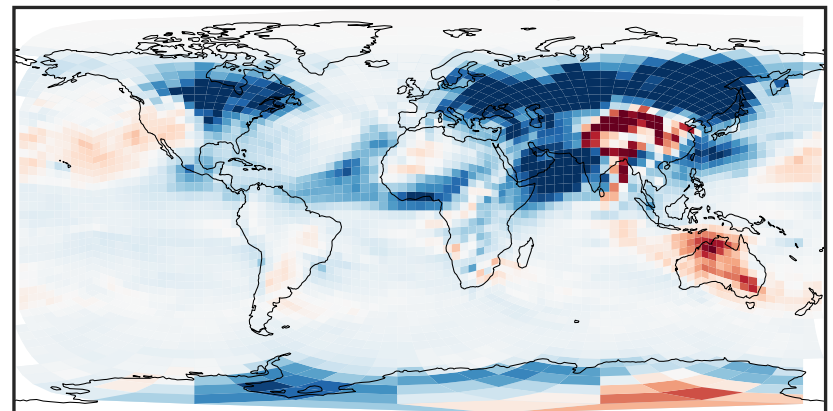
0.000 0.015 0.030 0.045
s-1

Difference
Dev - Ref, Dynamic Range



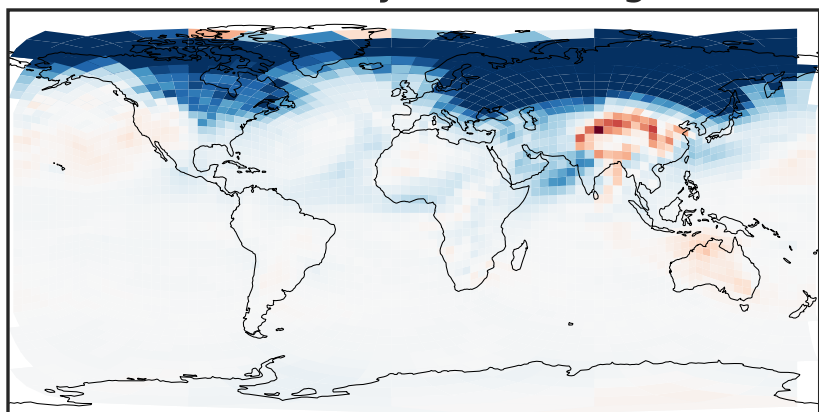
-6 0 6
s-1 1e-5

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



-1.5 0.0 1.5
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.99031 0.99515 1.00000 1.00489 1.00979
unitless

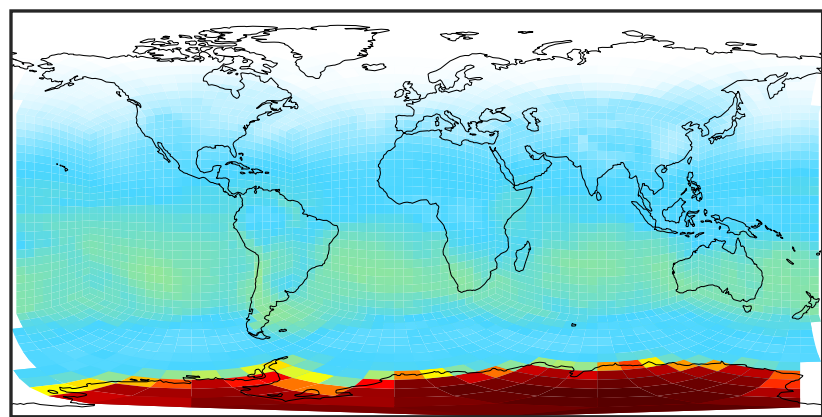
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

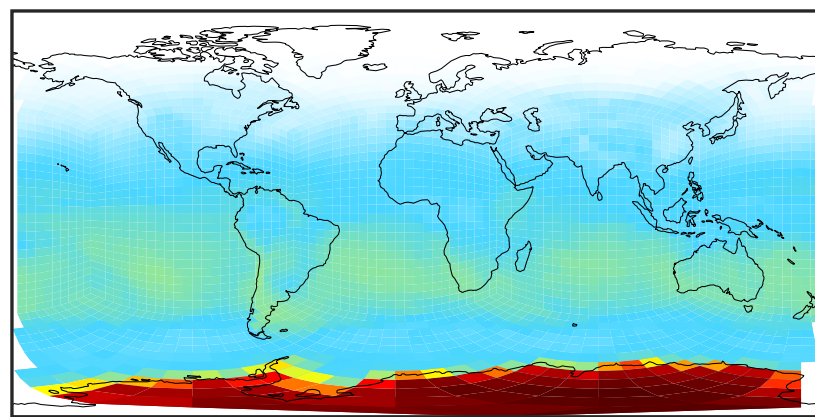
Jval_BrCl (Jan2019)

GCHP_14.0.0 (Ref)
c24



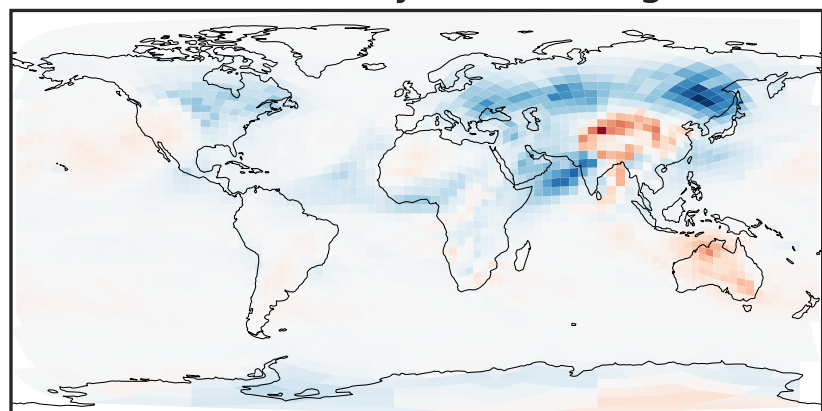
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



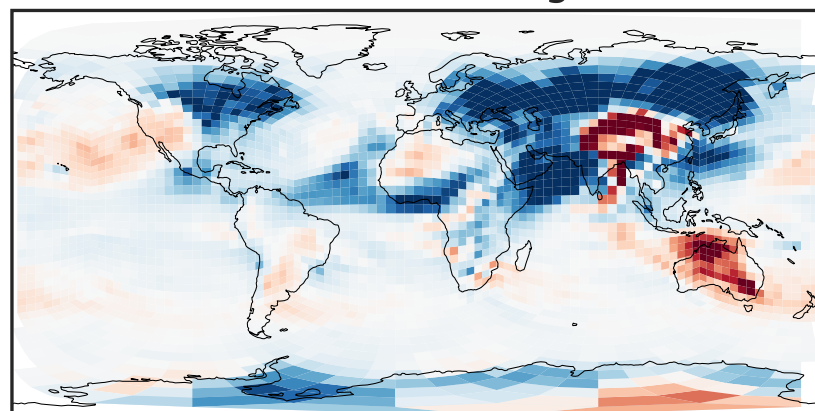
0.000 0.004 0.008 0.012
s-1

Difference
Dev - Ref, Dynamic Range



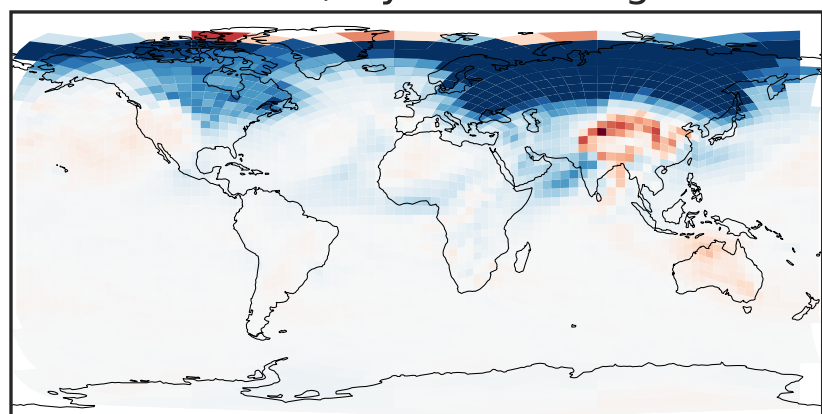
-1.5 0.0 1.5
s-1 $1e-5$

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



-4 0 4
s-1 $1e-6$

Ratio
Dev/Ref, Dynamic Range



0.98928 0.99464 1.00000 1.00542 1.01084
unitless

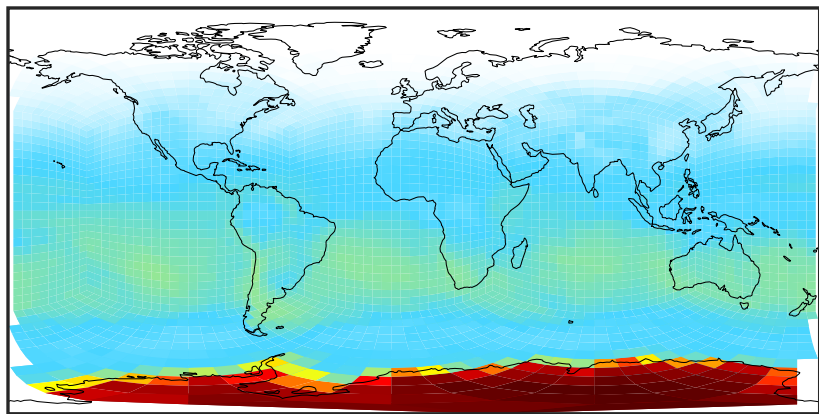
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

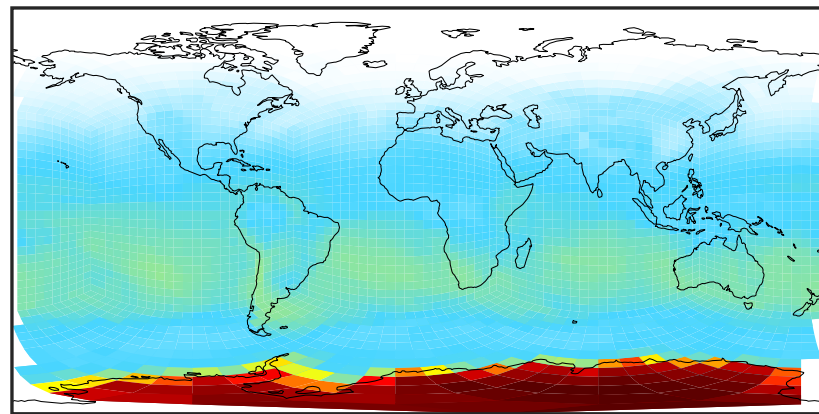
Jval_BrNO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



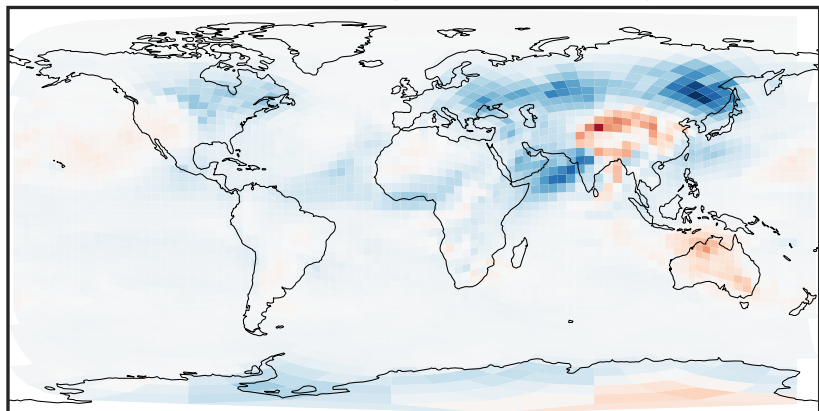
0.0000 0.0025 0.0050 0.0075
s-1

GCHP_14.2.0 (Dev)
c24



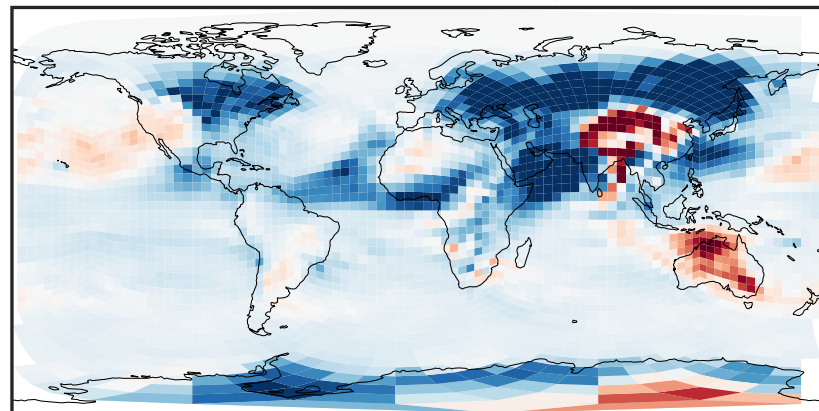
0.0000 0.0025 0.0050 0.0075
s-1

Difference
Dev - Ref, Dynamic Range



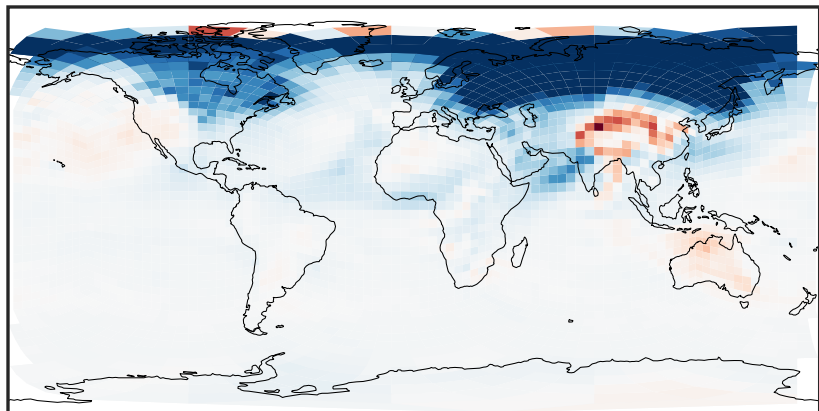
-1 0 1
s-1 1e-5

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



-3 0 3
s-1 1e-6

Ratio
Dev/Ref, Dynamic Range



0.98951 0.99476 1.00000 1.00530 1.01060
unitless

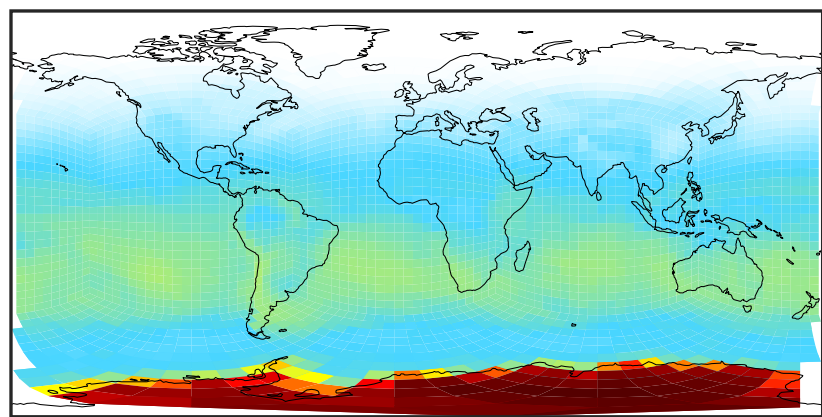
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

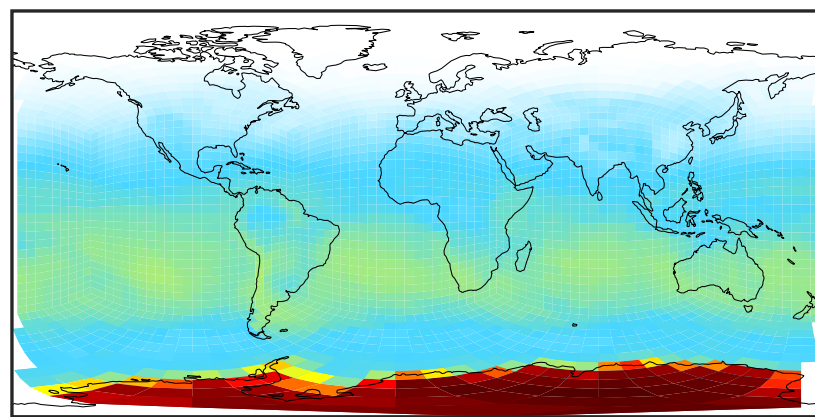
Jval_BrNO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



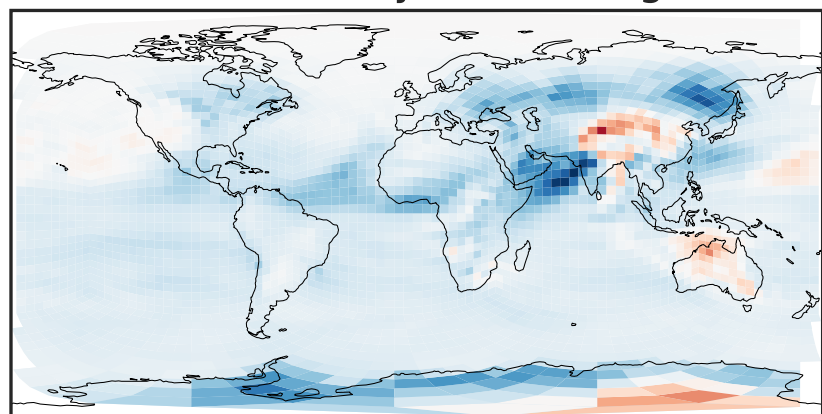
0.0000 0.0005 0.0010 0.0015
s-1

GCHP_14.2.0 (Dev)
c24



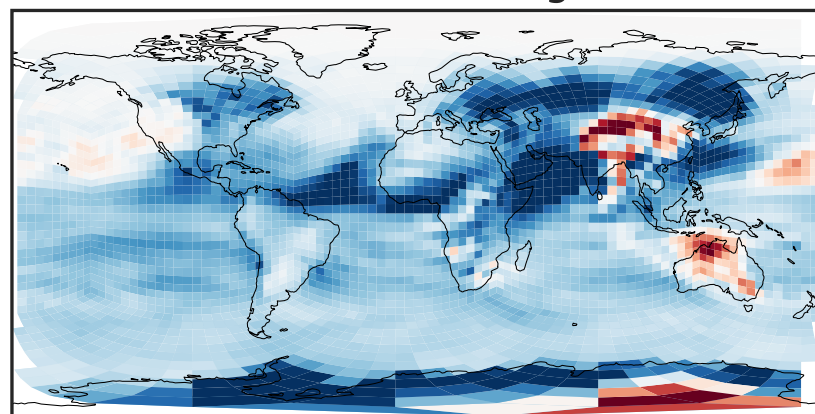
0.0000 0.0005 0.0010 0.0015
s-1

Difference
Dev - Ref, Dynamic Range



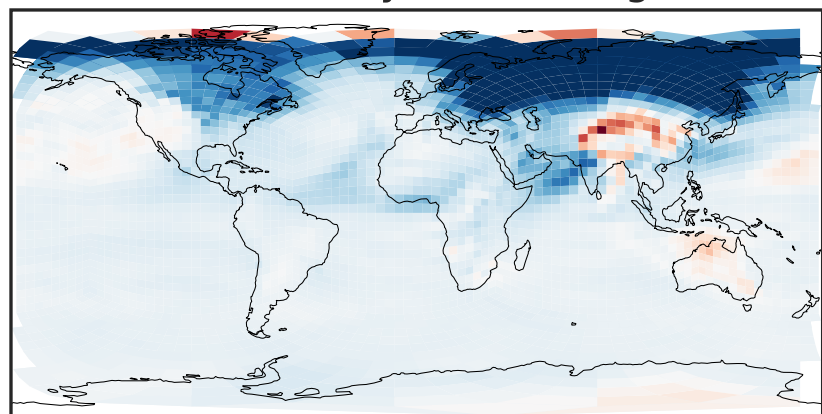
-2 0 2
s-1 1e-6

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



-8 0 8
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98906 0.99453 1.00000 1.00553 1.01106
unitless

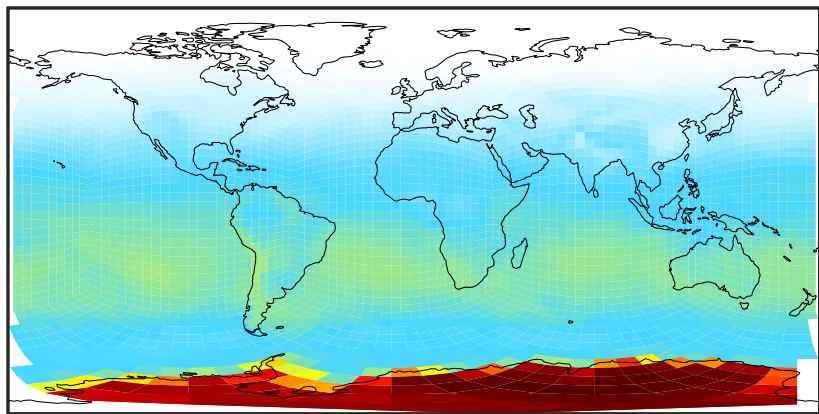
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

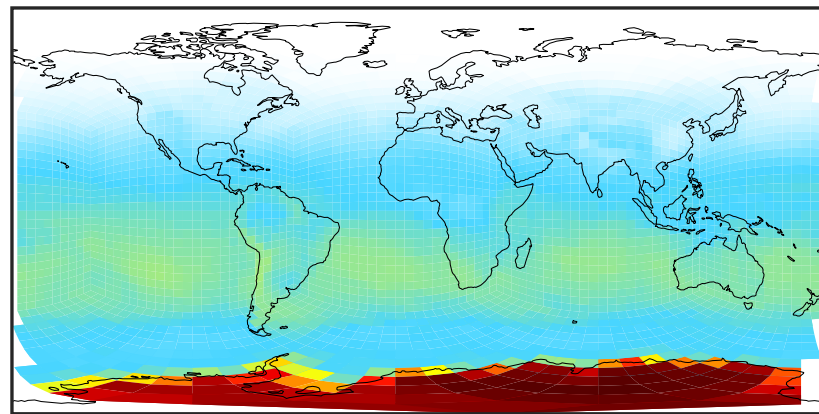
Jval_BrO (Jan2019)

GCHP_14.0.0 (Ref)
c24



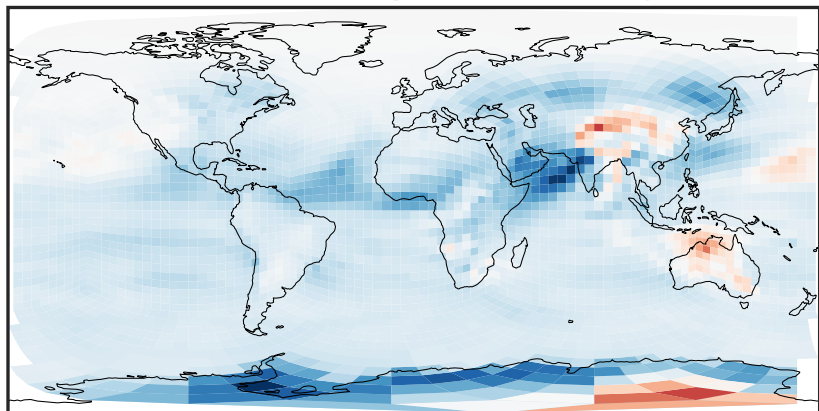
0.000 0.015 0.030
s-1

GCHP_14.2.0 (Dev)
c24



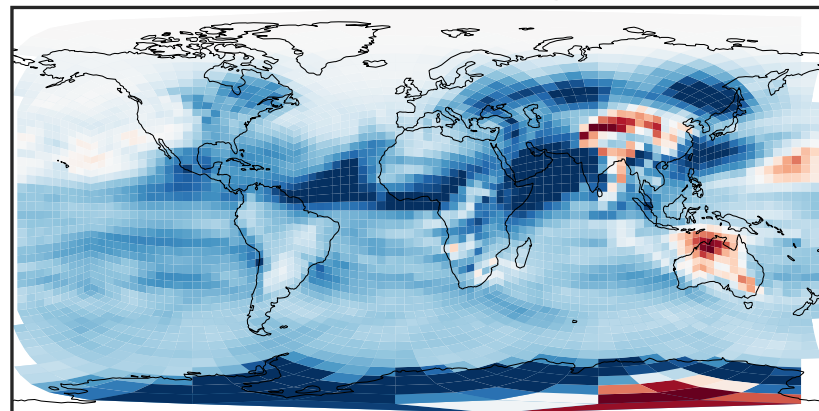
0.000 0.015 0.030
s-1

Difference
Dev - Ref, Dynamic Range



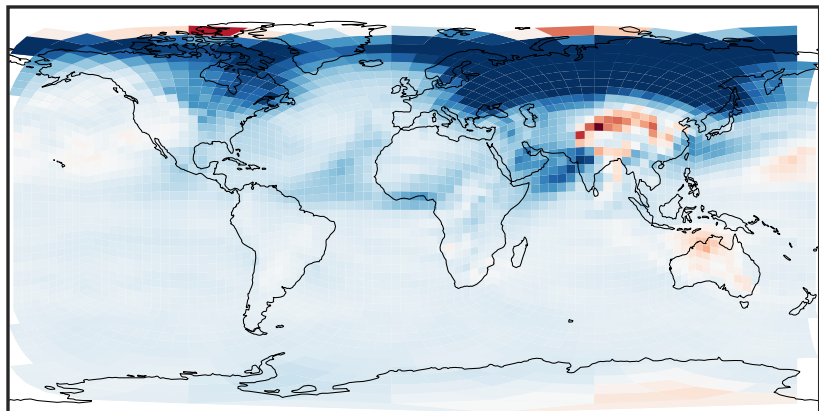
-6 0 6
s-1 1e-5

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



-2.5 0.0 2.5
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98817 0.99409 1.00000 1.00598 1.01197
unitless

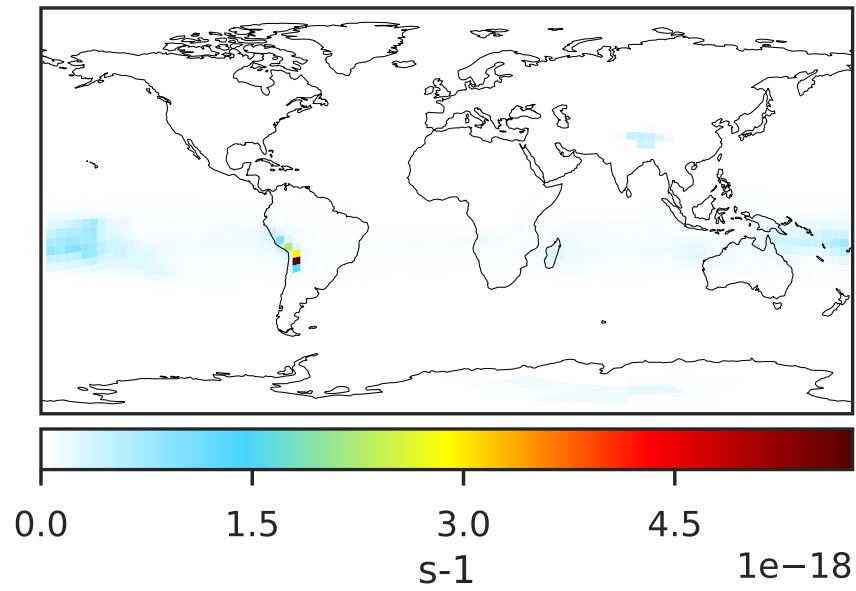
Ratio
Dev/Ref, Fixed Range



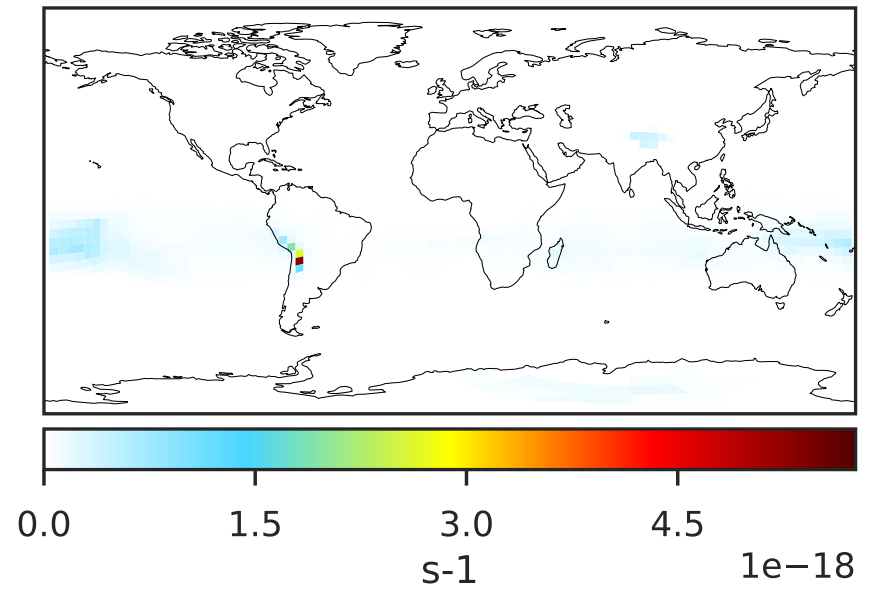
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CCI4 (Jan2019)

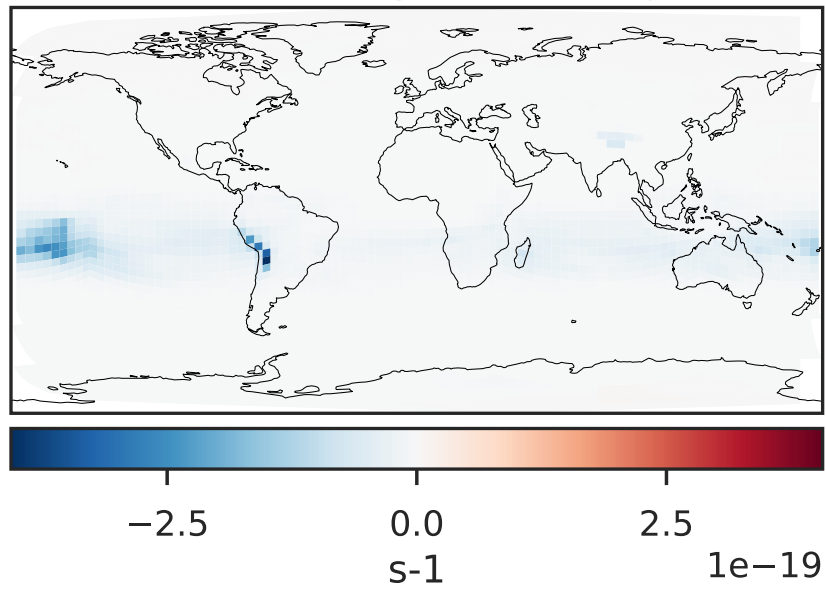
GCHP_14.0.0 (Ref)
c24



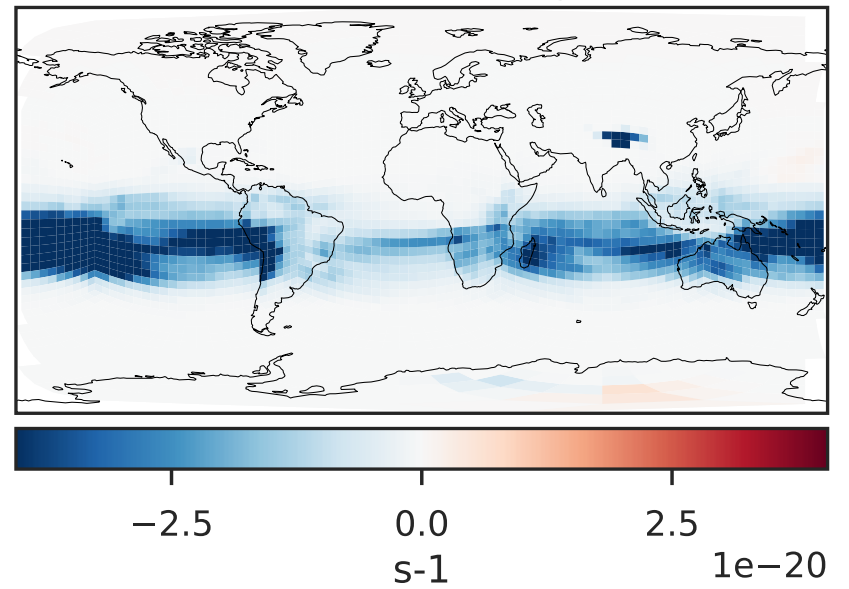
GCHP_14.2.0 (Dev)
c24



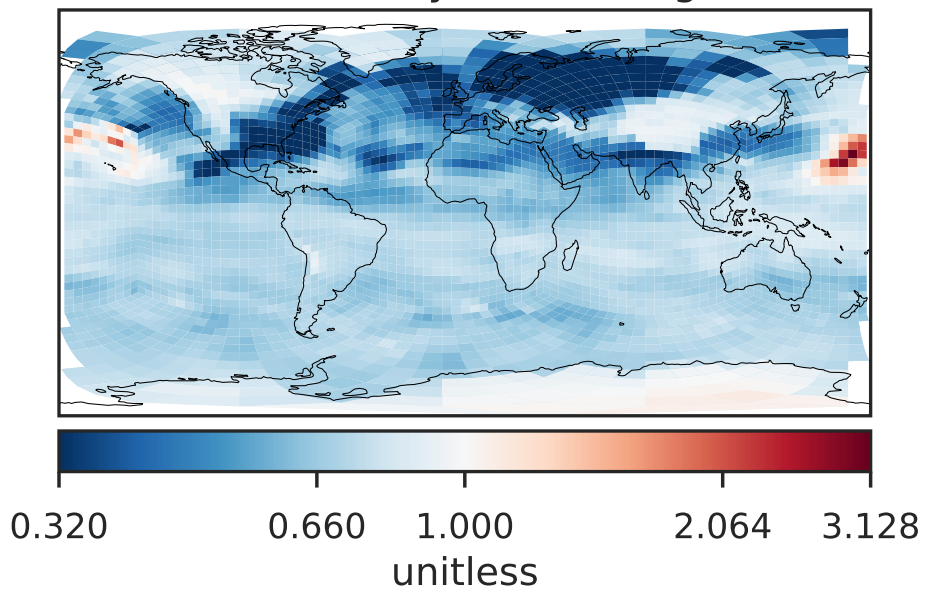
Difference
Dev - Ref, Dynamic Range



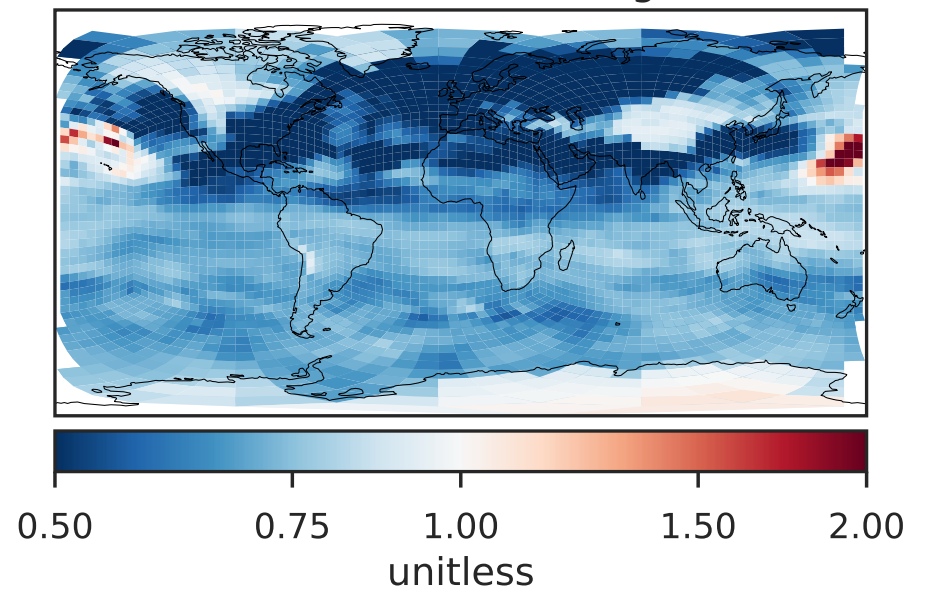
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

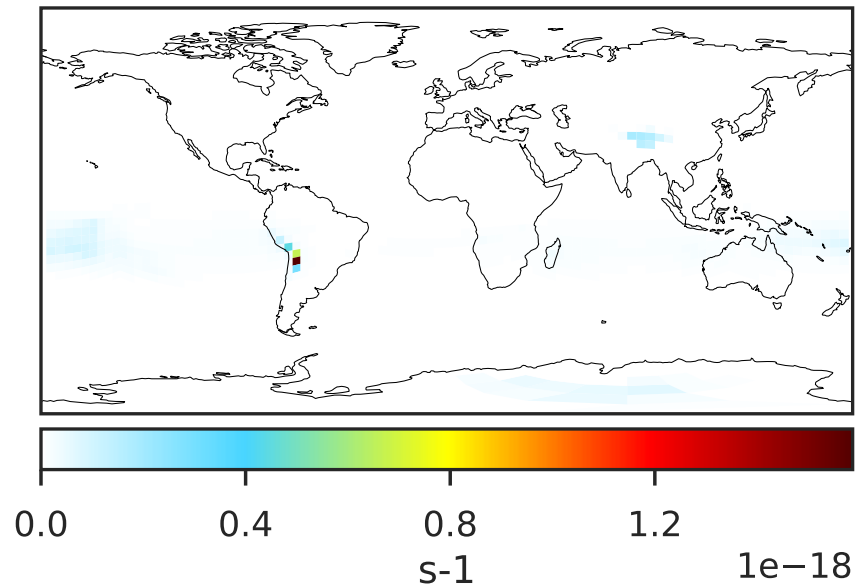


Ratio
Dev/Ref, Fixed Range

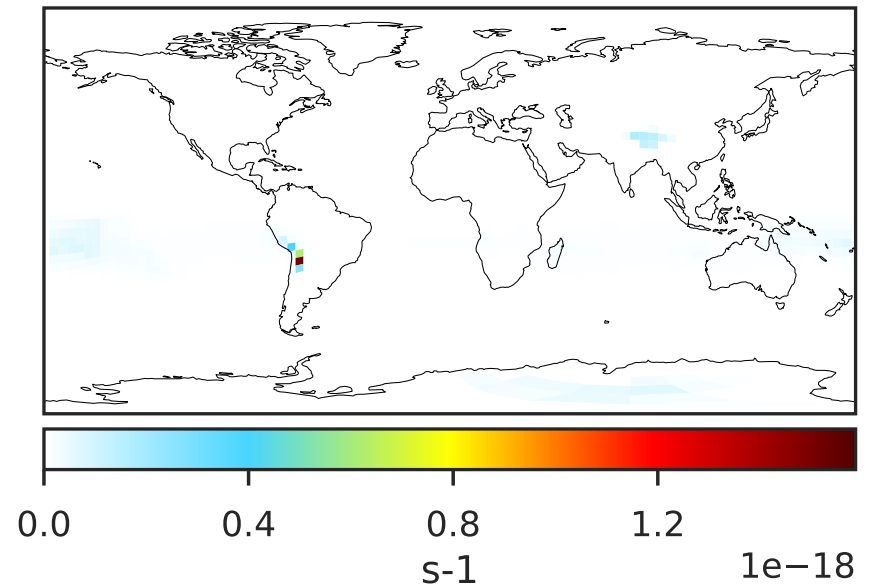


Jval_CFC11 (Jan2019)

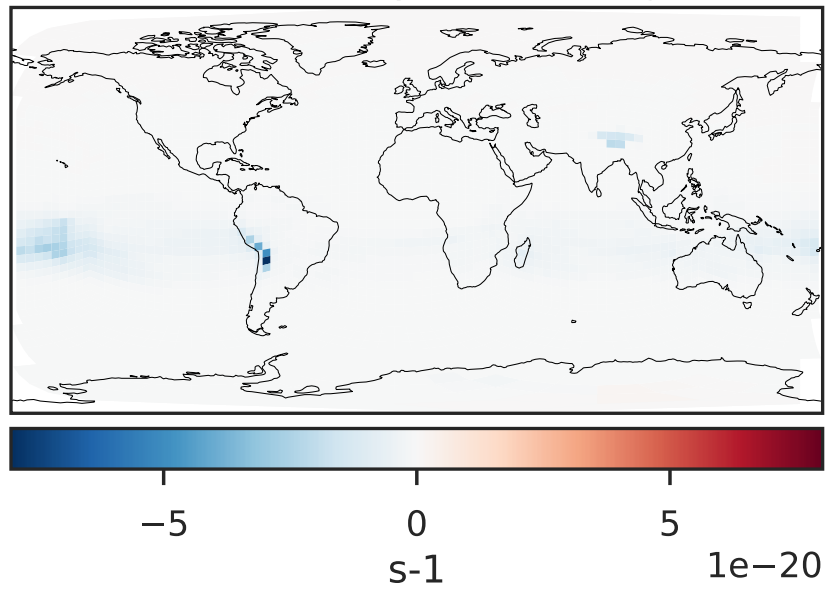
GCHP_14.0.0 (Ref)
c24



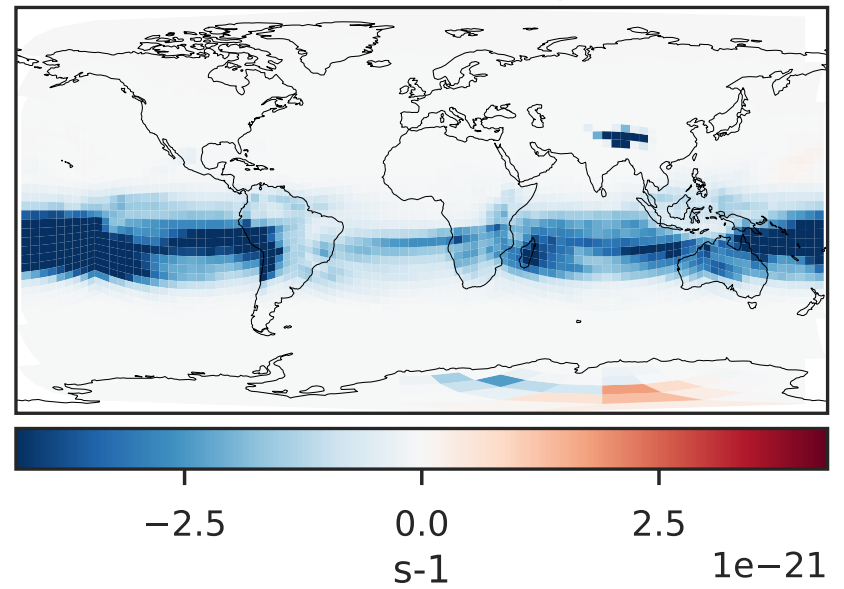
GCHP_14.2.0 (Dev)
c24



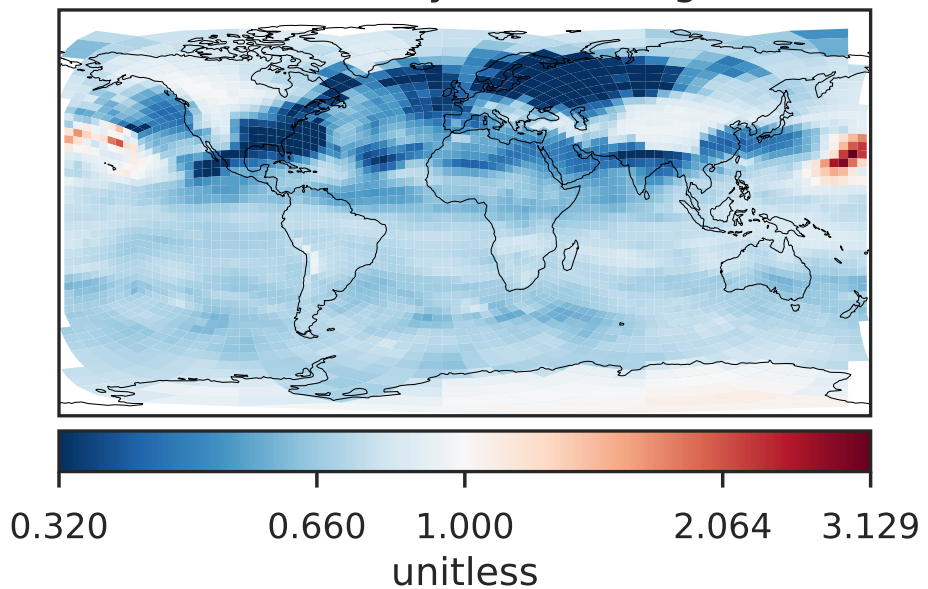
Difference
Dev - Ref, Dynamic Range



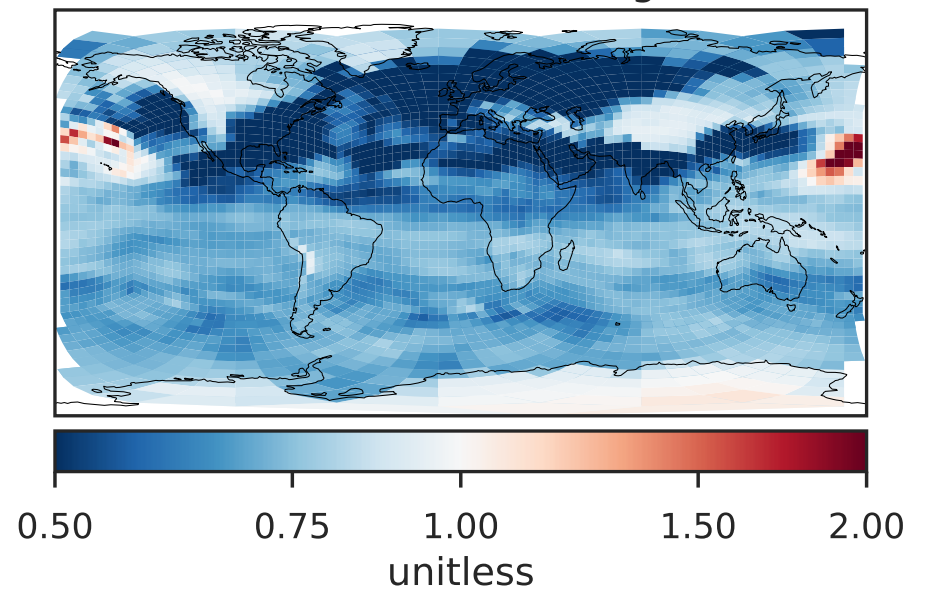
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

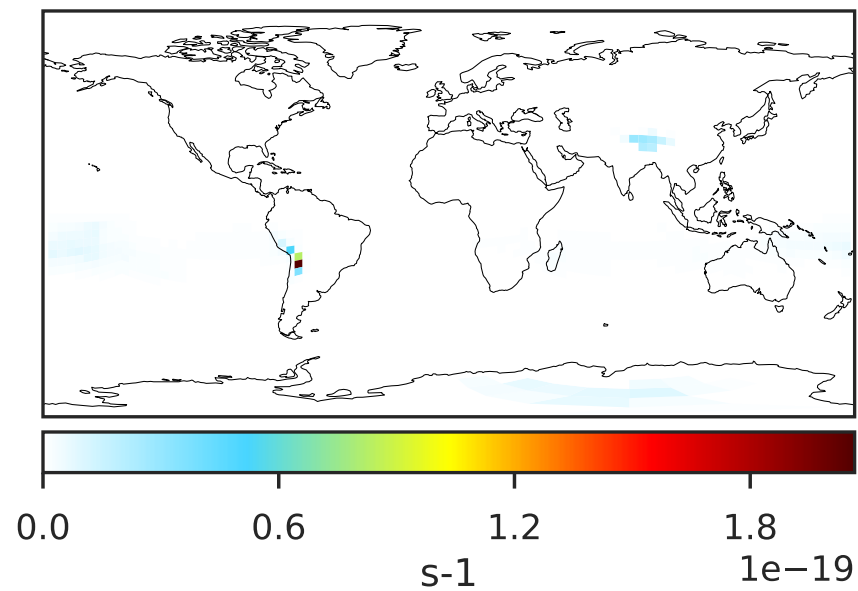


Ratio
Dev/Ref, Fixed Range

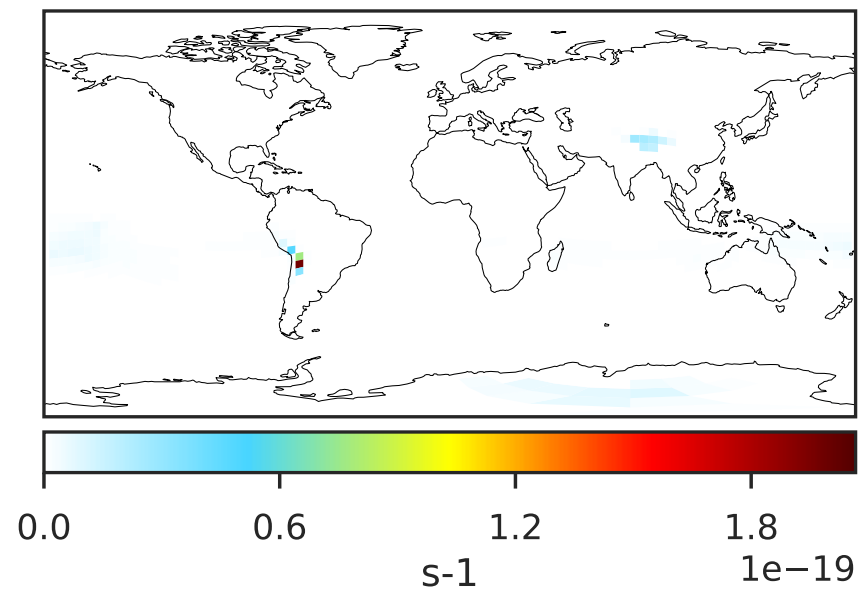


Jval_CFC113 (Jan2019)

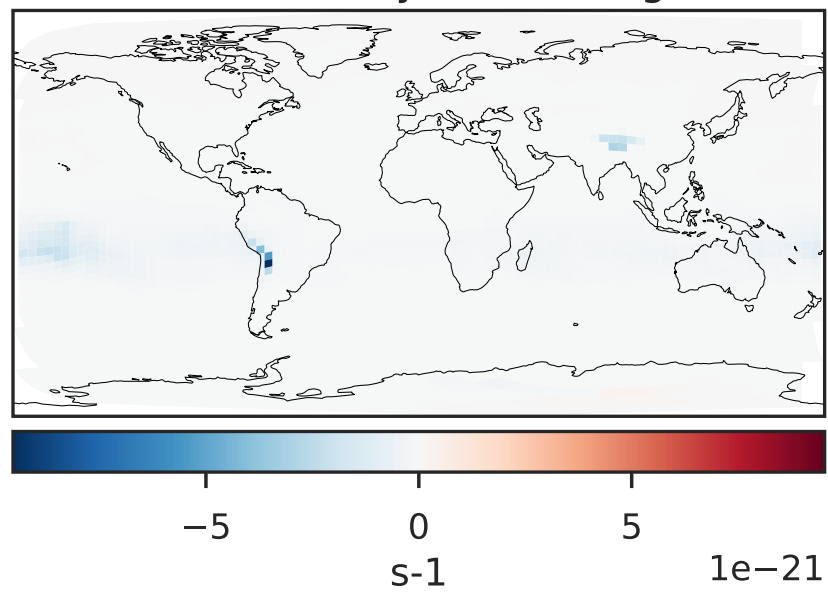
GCHP_14.0.0 (Ref)
c24



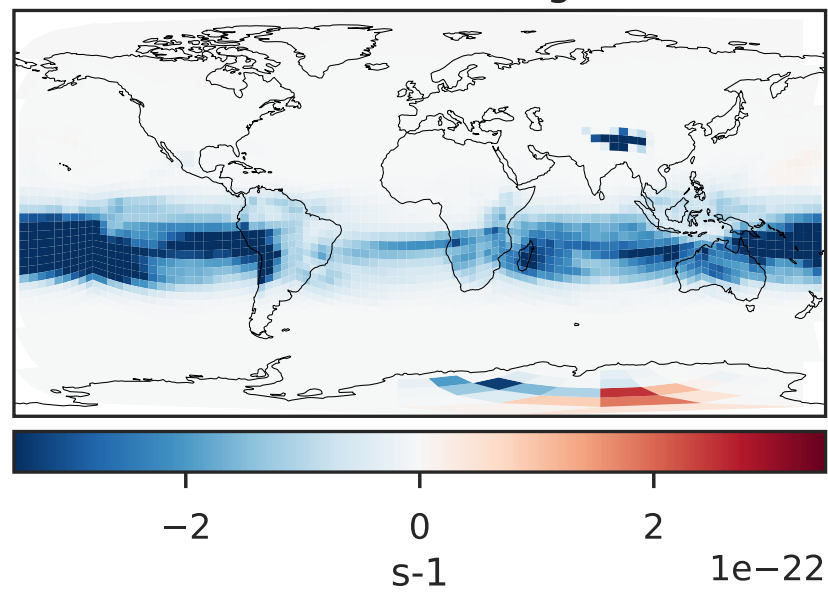
GCHP_14.2.0 (Dev)
c24



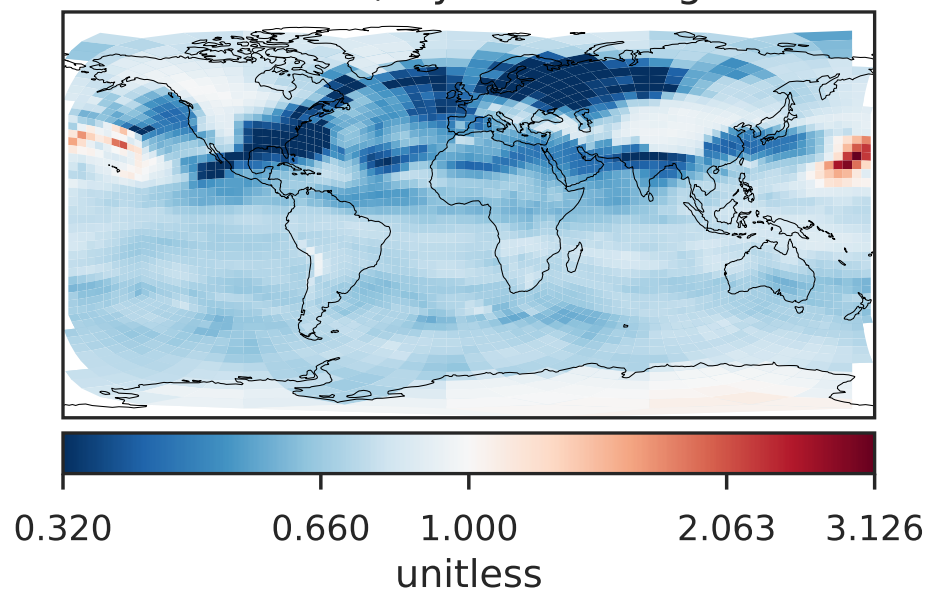
Difference
Dev - Ref, Dynamic Range



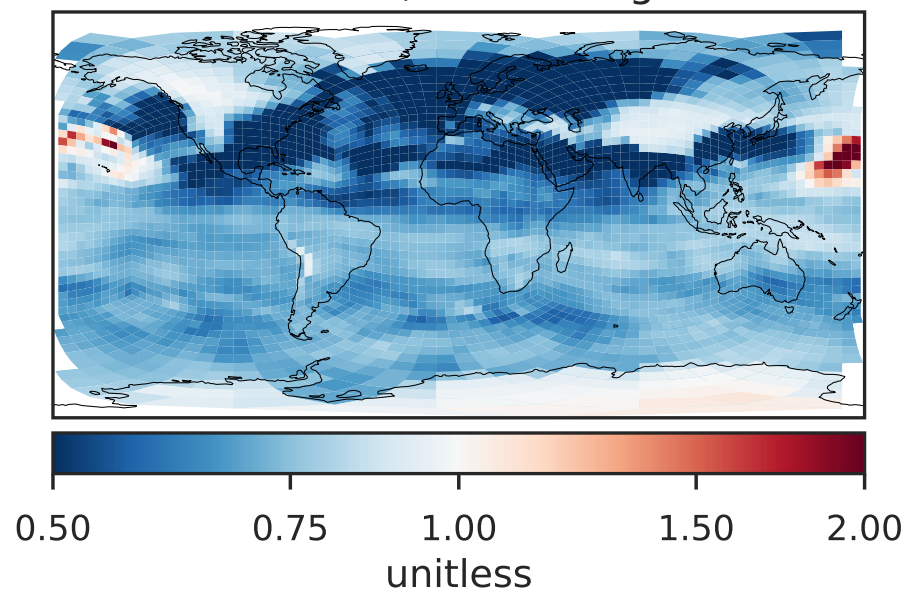
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

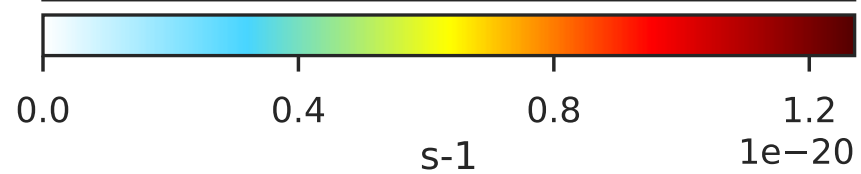
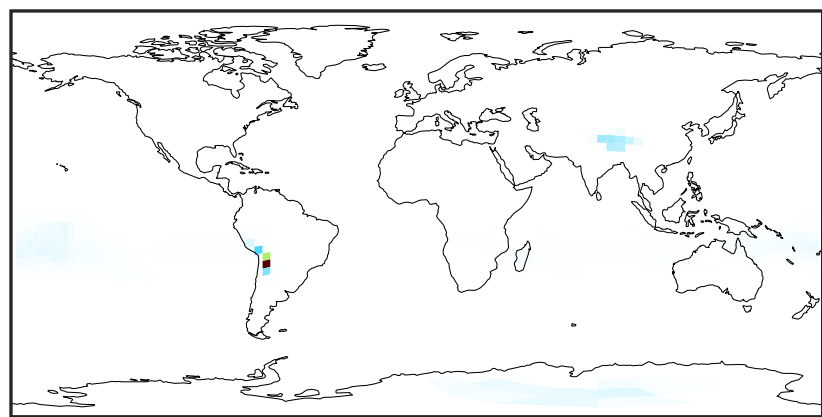


Ratio
Dev/Ref, Fixed Range

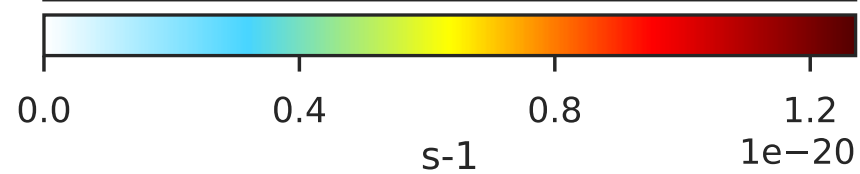
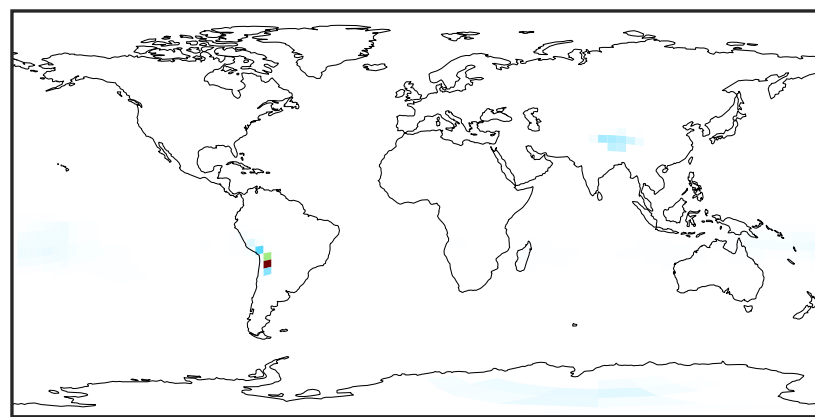


Jval_CFC114 (Jan2019)

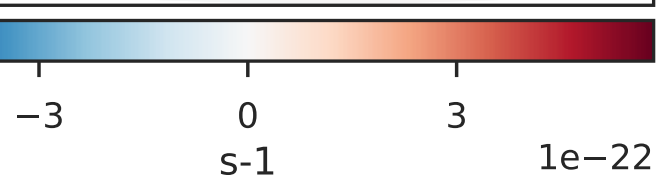
GCHP_14.0.0 (Ref)
c24



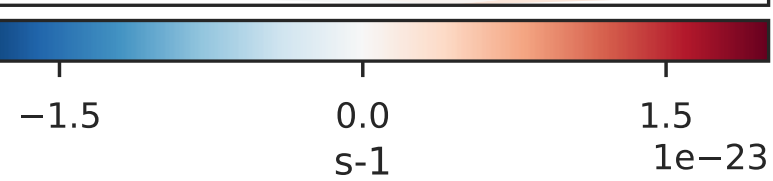
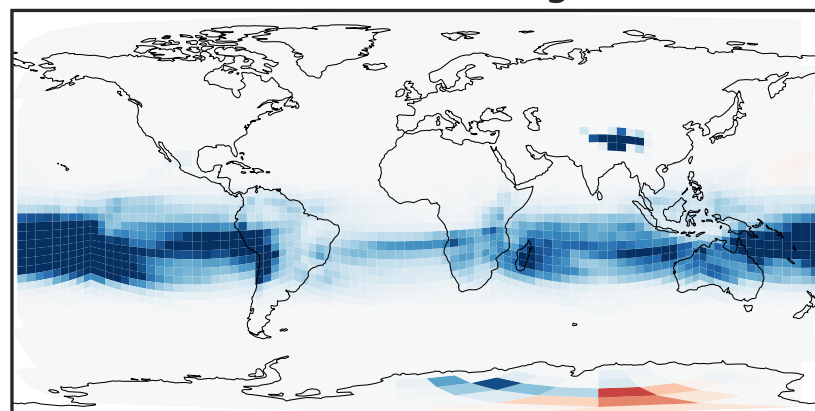
GCHP_14.2.0 (Dev)
c24



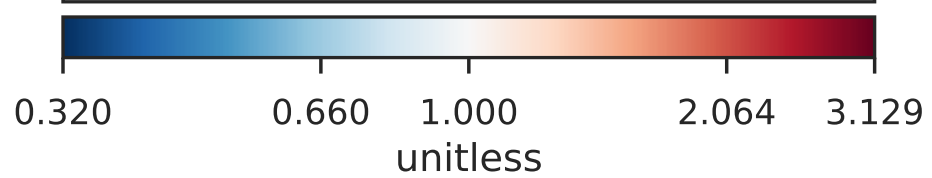
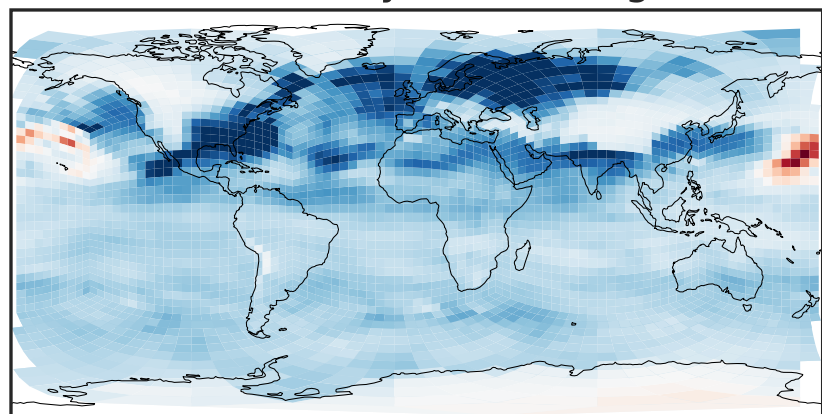
Difference
Dev - Ref, Dynamic Range



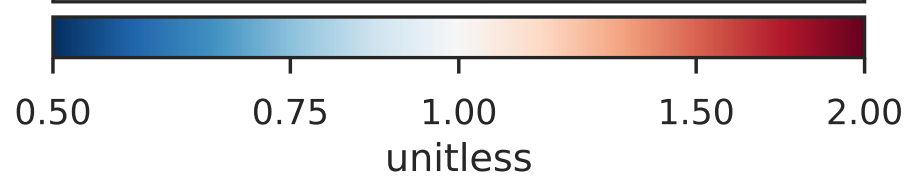
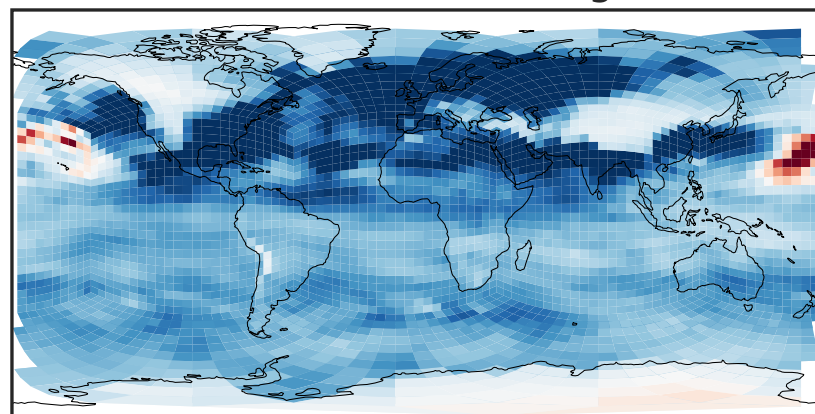
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

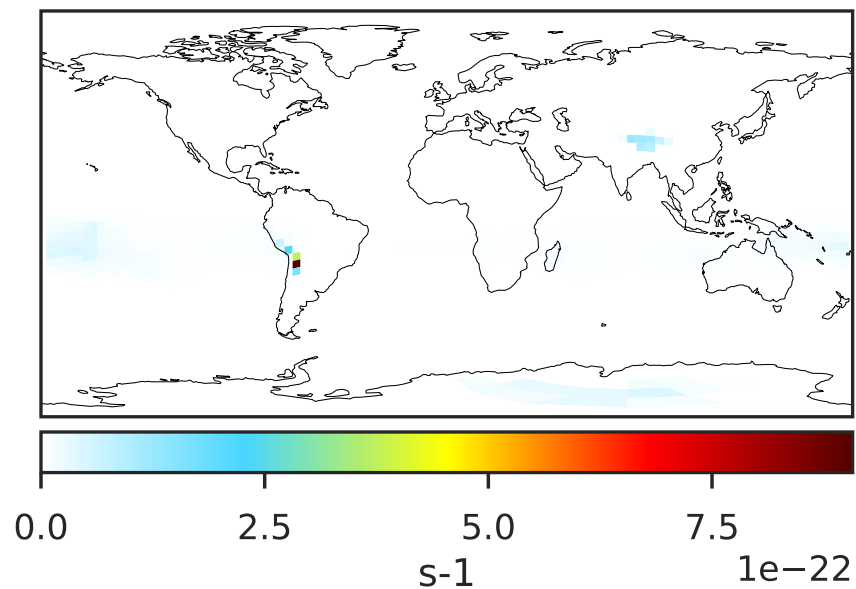


Ratio
Dev/Ref, Fixed Range

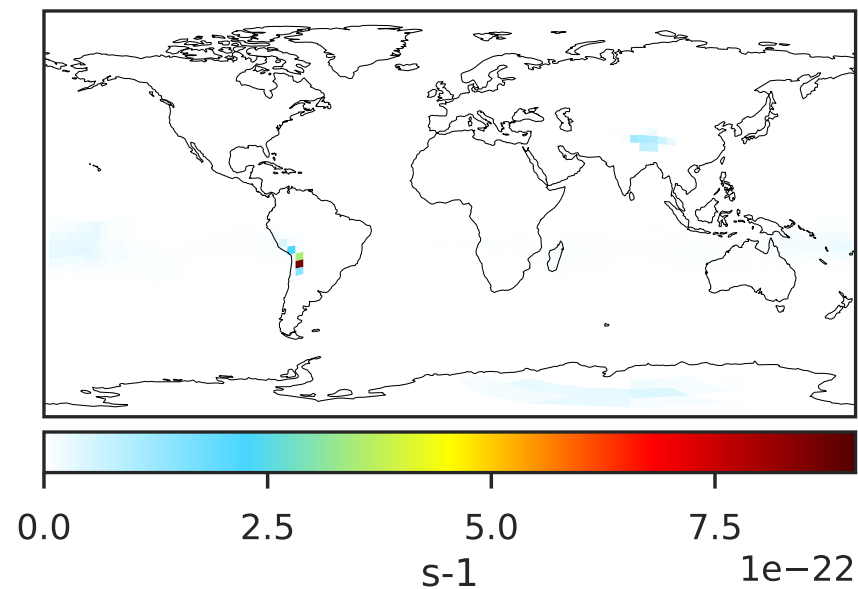


Jval_CFC115 (Jan2019)

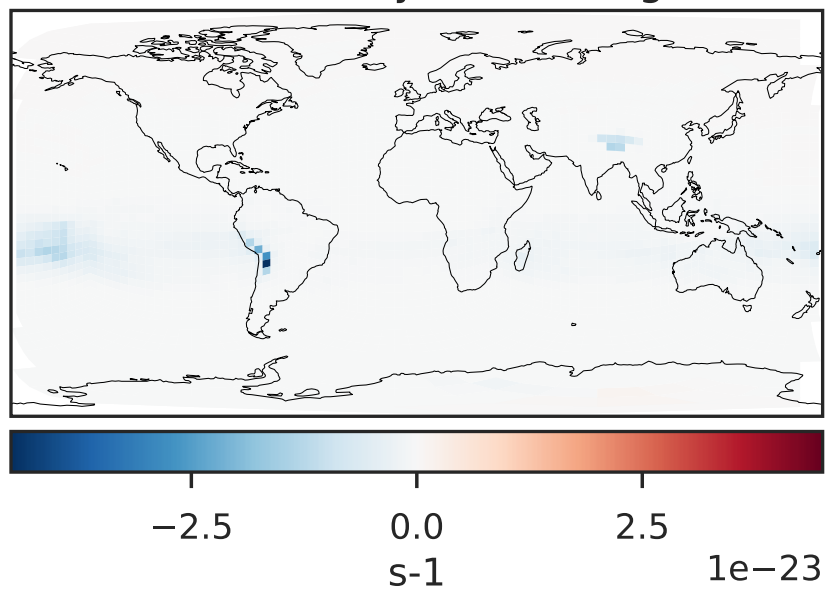
GCHP_14.0.0 (Ref)
c24



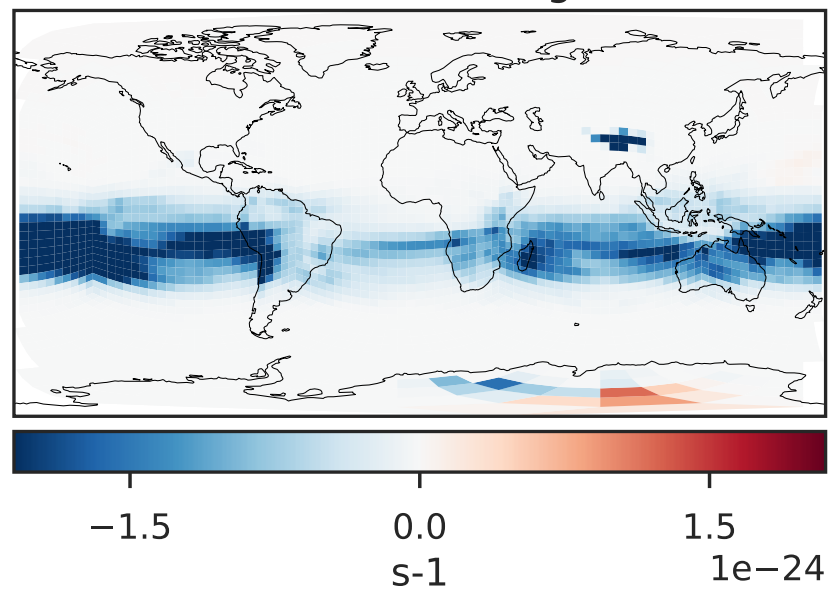
GCHP_14.2.0 (Dev)
c24



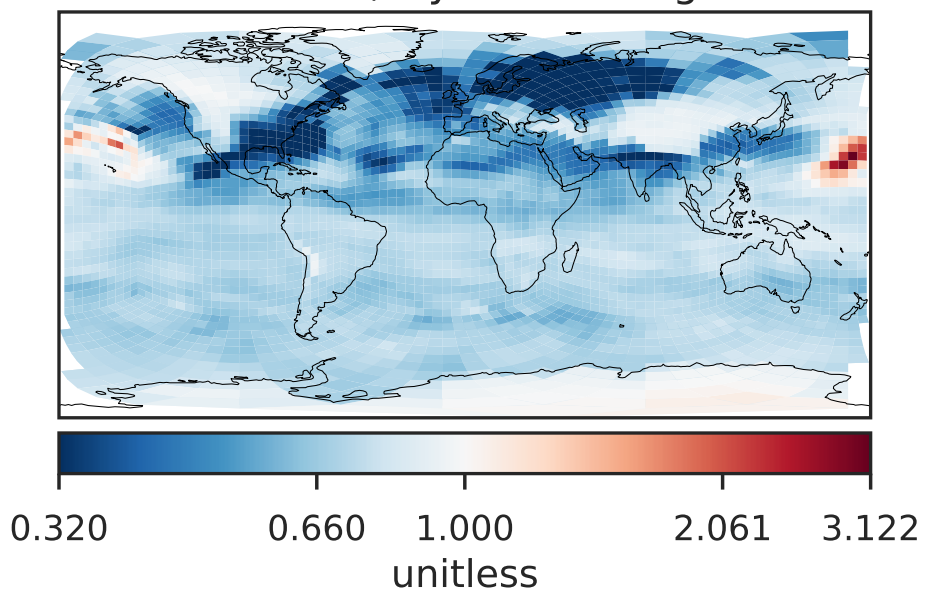
Difference
Dev - Ref, Dynamic Range



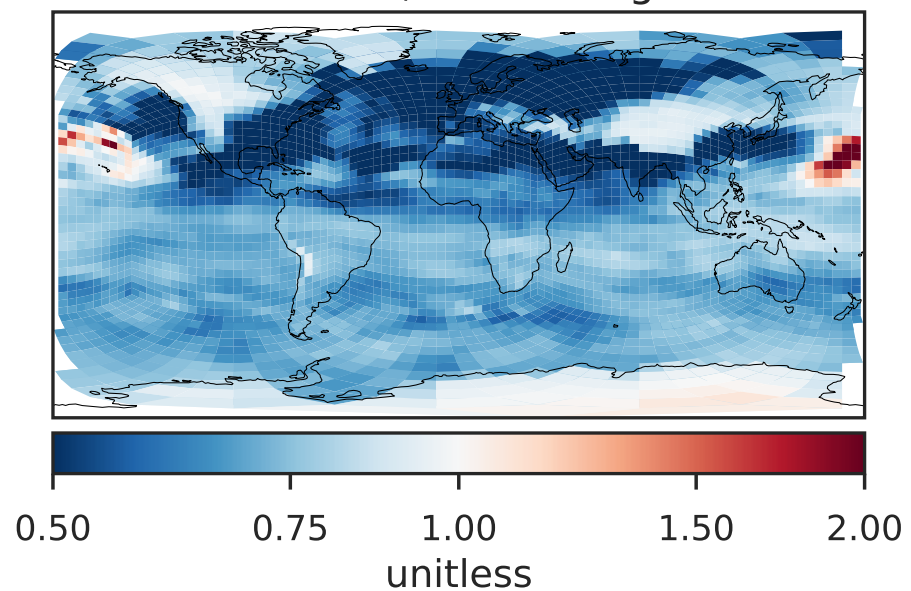
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

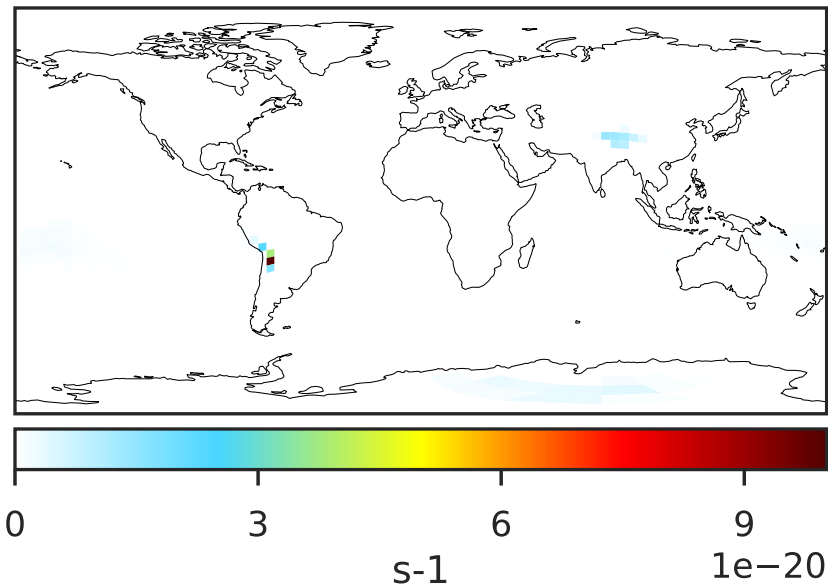


Ratio
Dev/Ref, Fixed Range

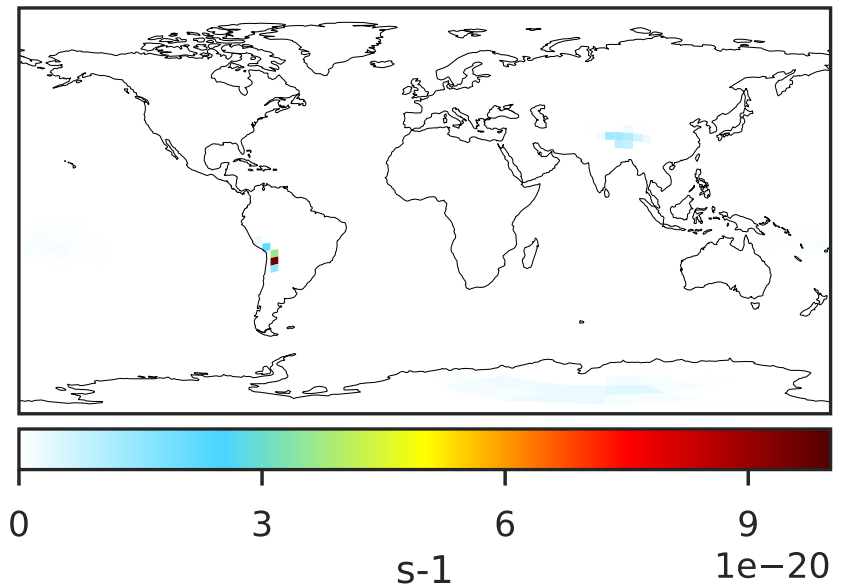


Jval_CFC12 (Jan2019)

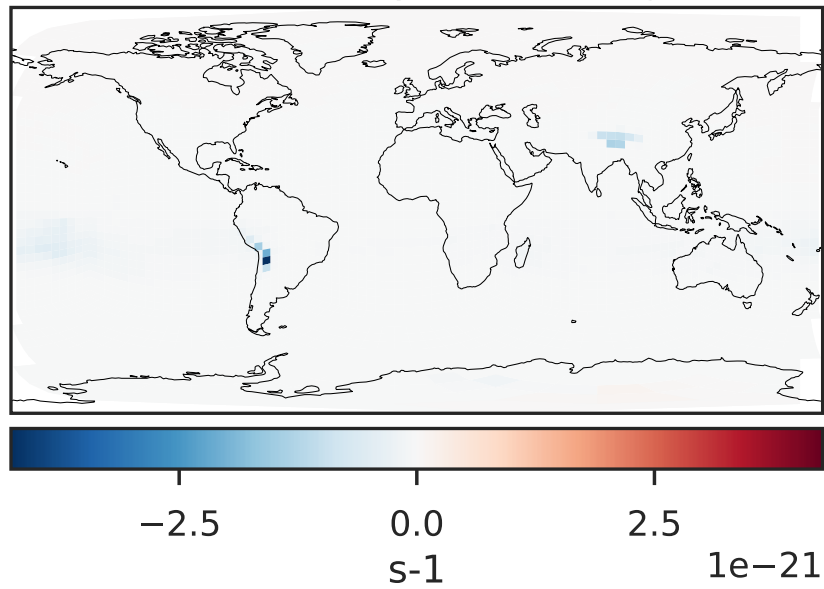
GCHP_14.0.0 (Ref)
c24



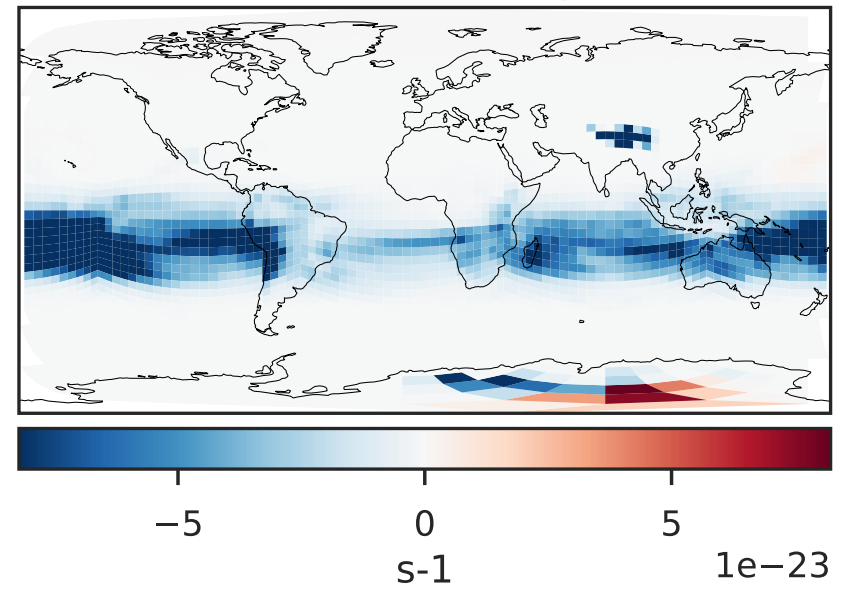
GCHP_14.2.0 (Dev)
c24



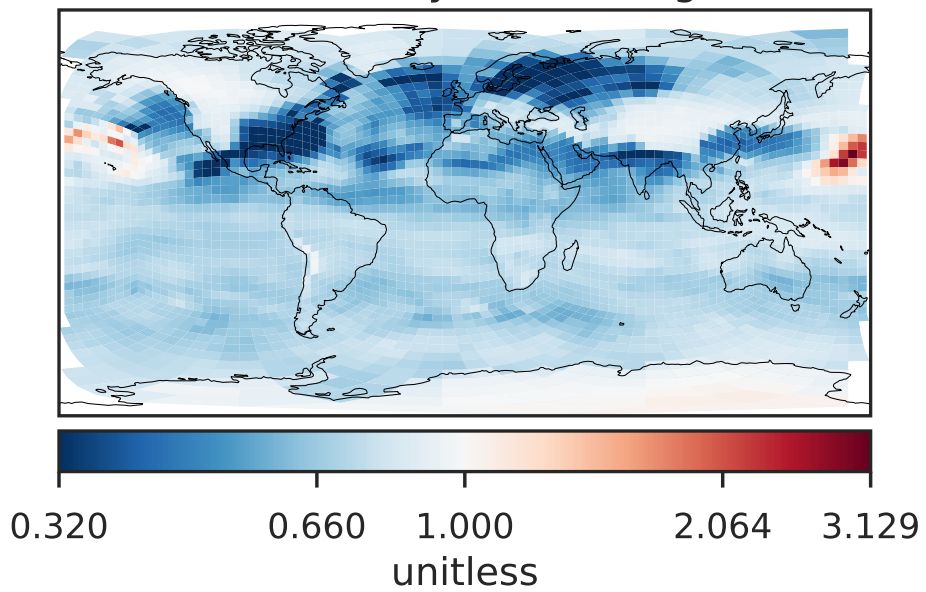
Difference
Dev - Ref, Dynamic Range



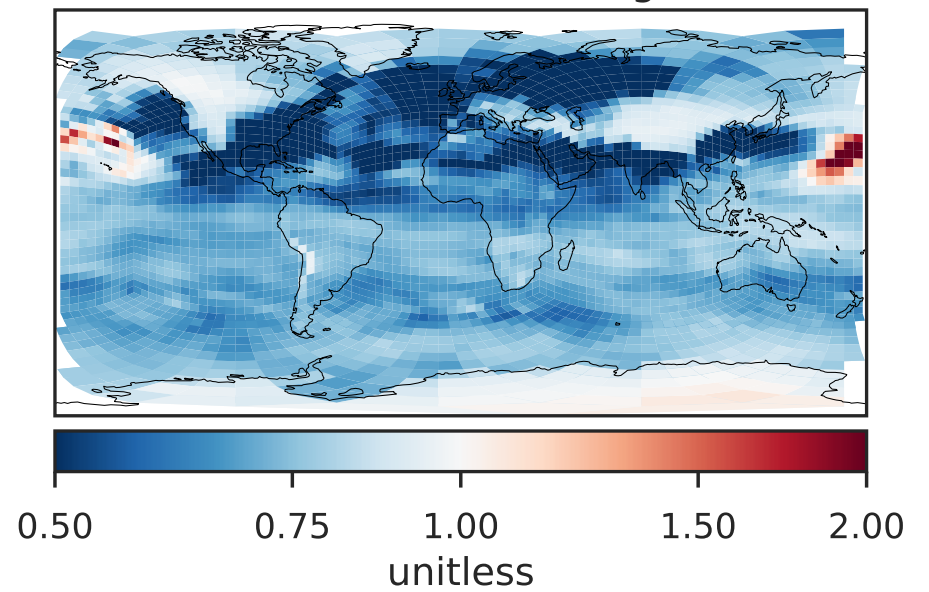
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

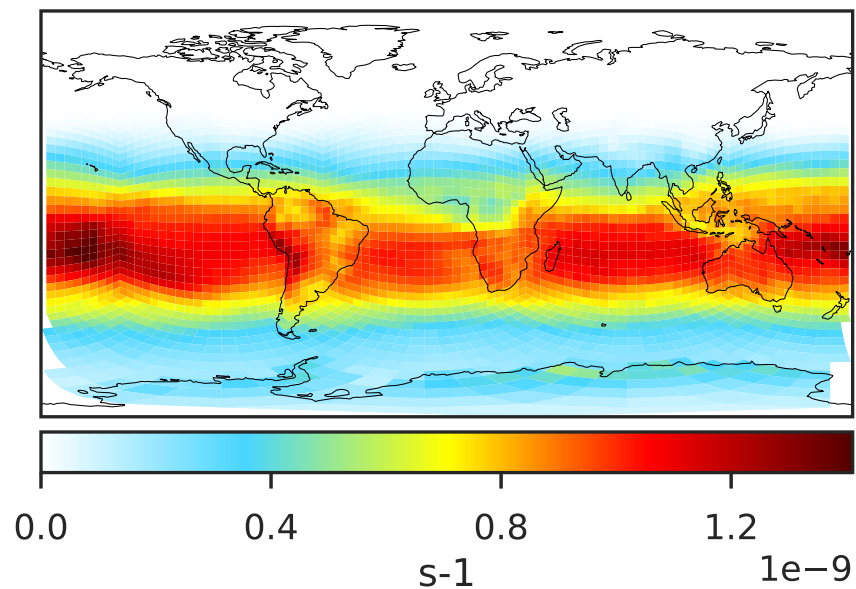


Ratio
Dev/Ref, Fixed Range

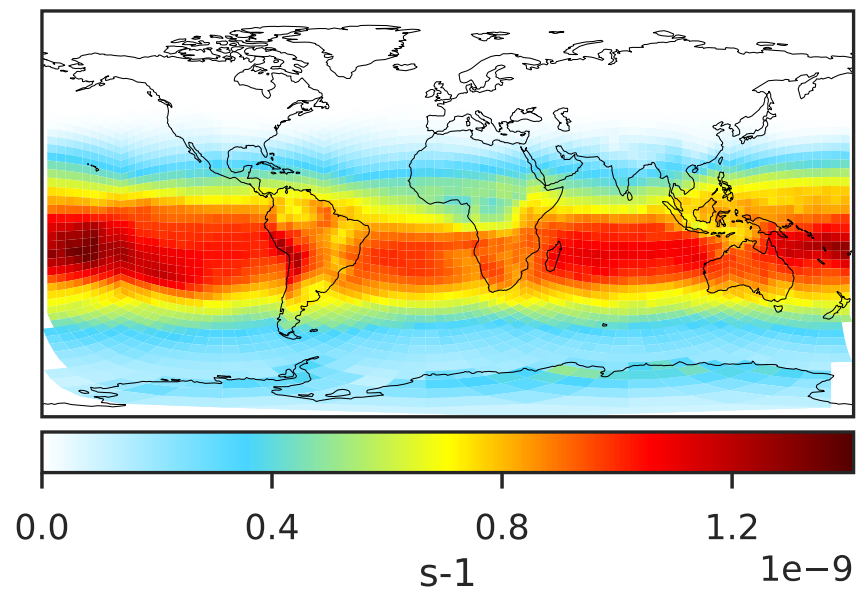


Jval_CH2Br2 (Jan2019)

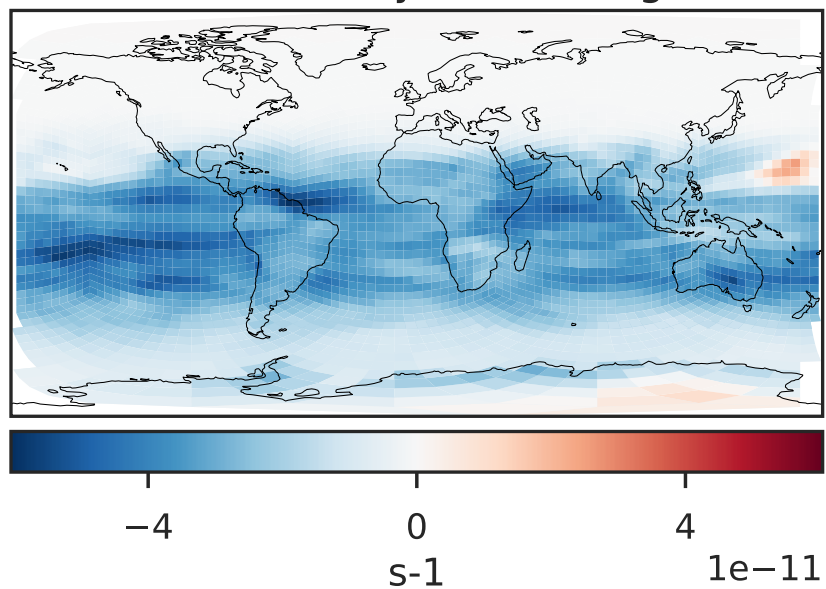
GCHP_14.0.0 (Ref)
c24



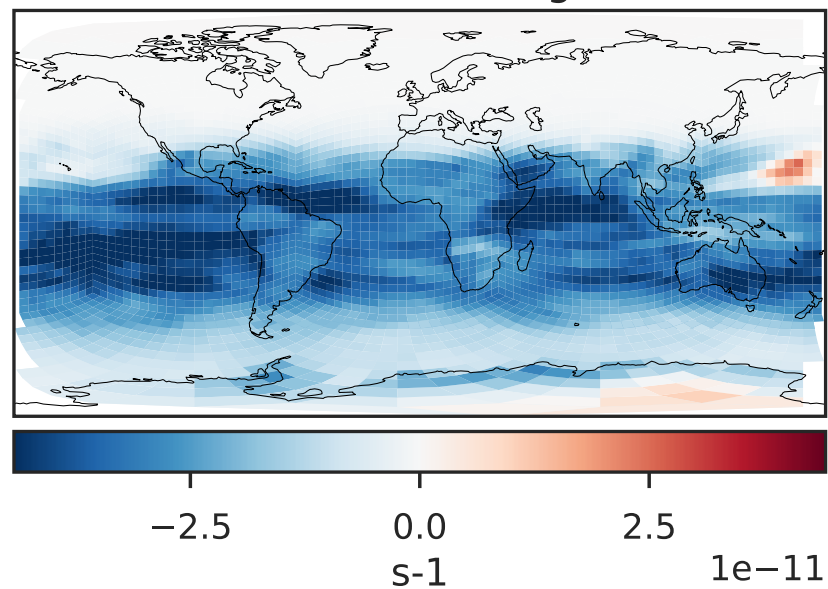
GCHP_14.2.0 (Dev)
c24



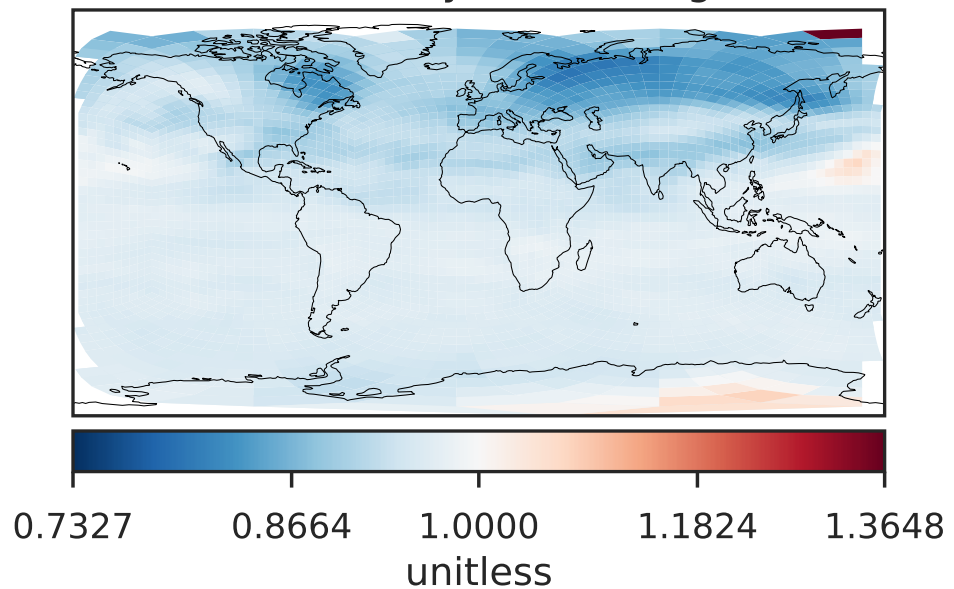
Difference
Dev - Ref, Dynamic Range



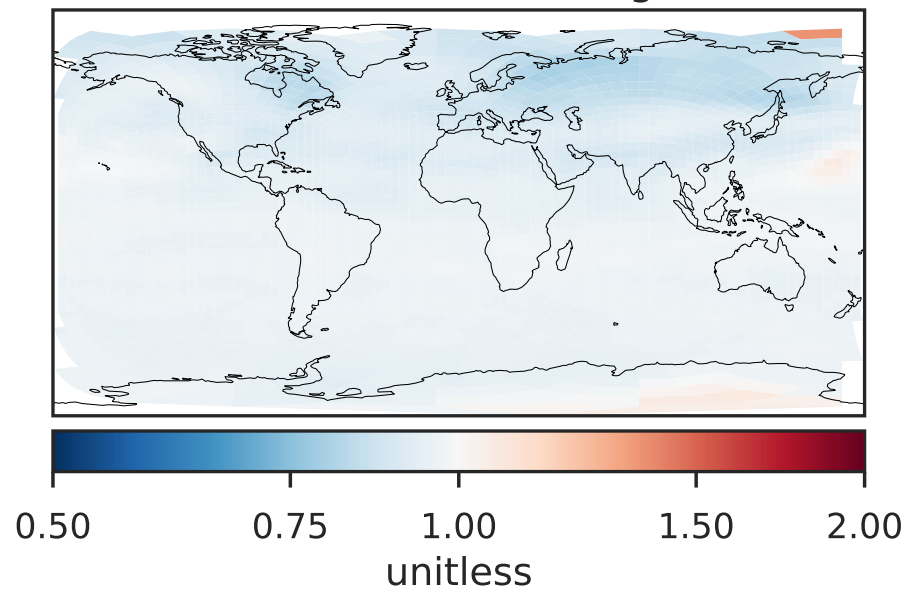
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

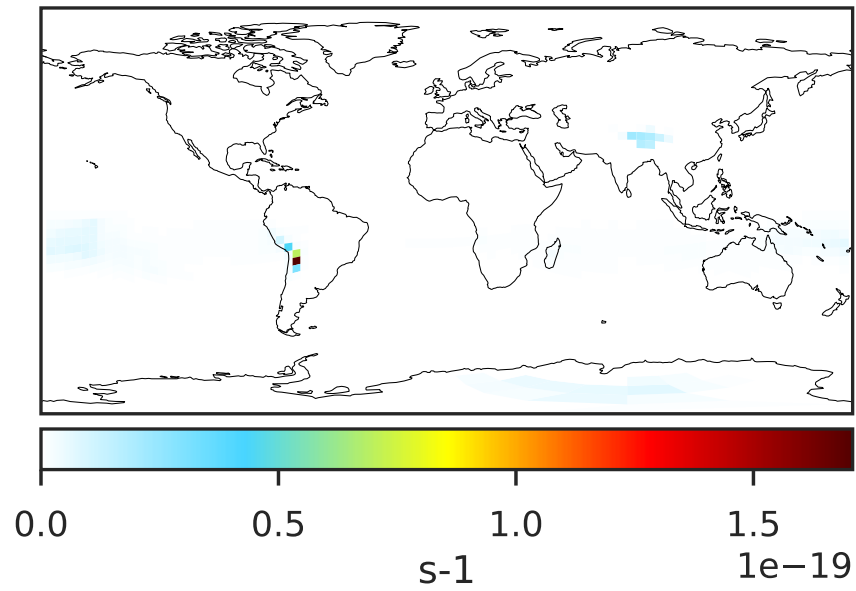


Ratio
Dev/Ref, Fixed Range

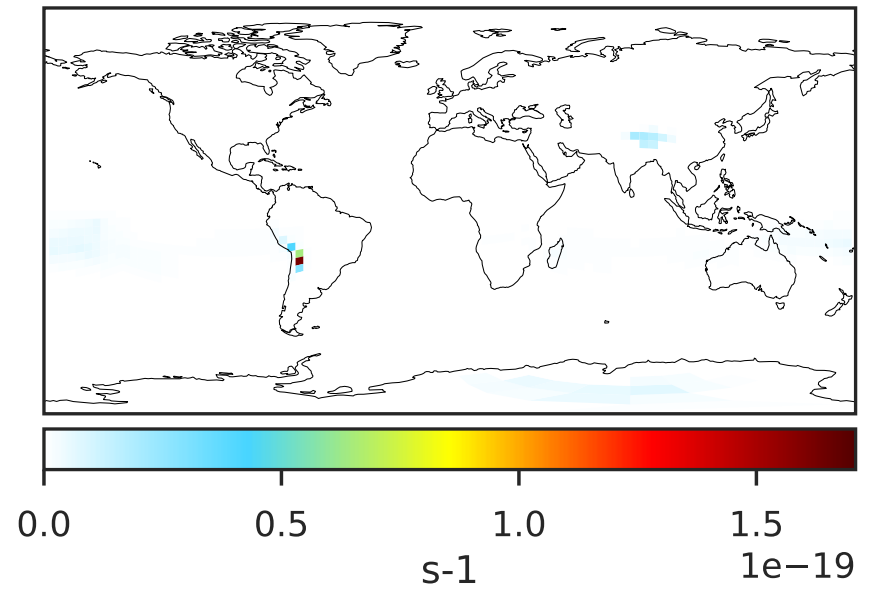


Jval_CH2Cl2 (Jan2019)

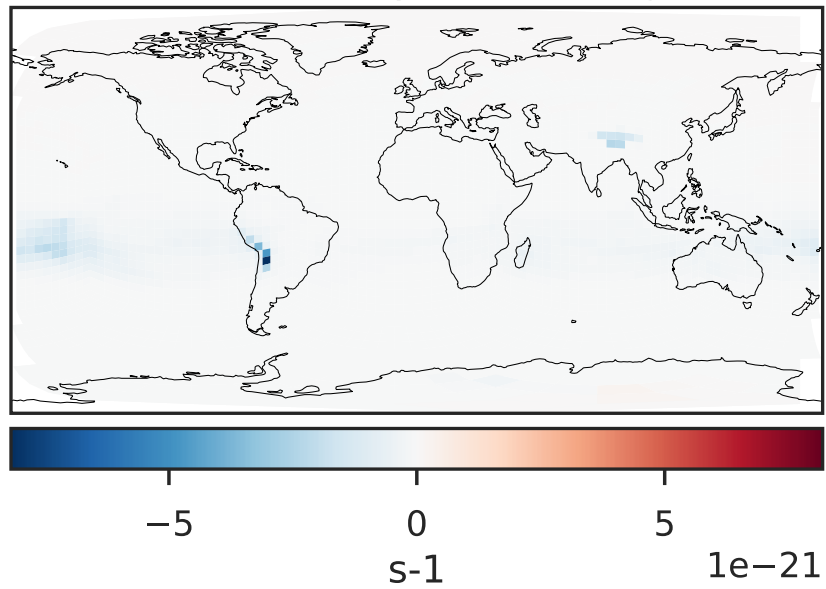
GCHP_14.0.0 (Ref)
c24



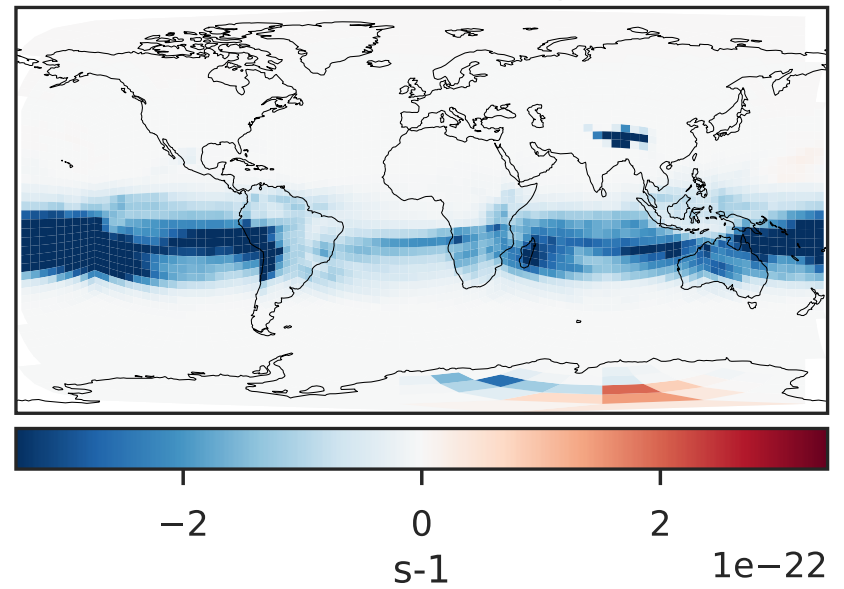
GCHP_14.2.0 (Dev)
c24



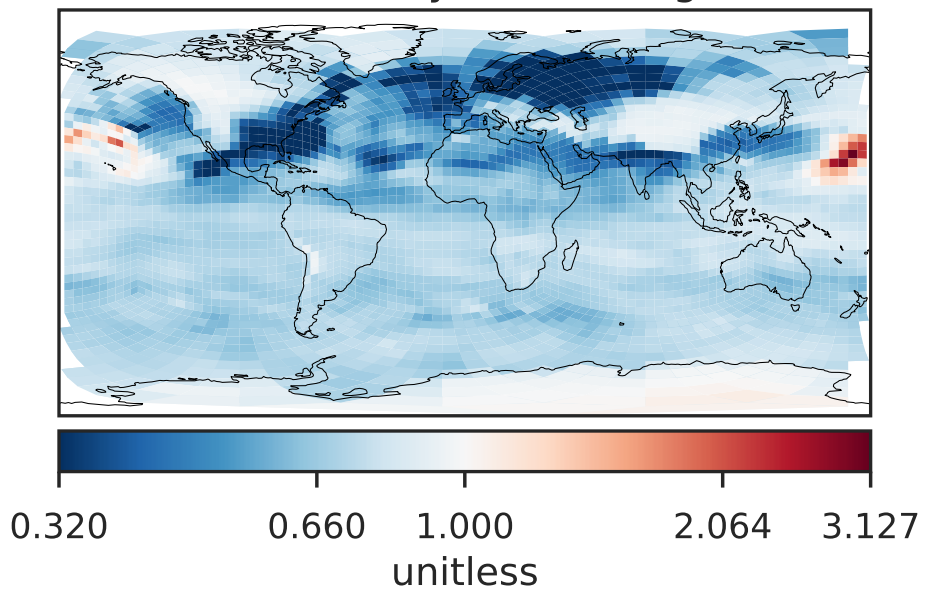
Difference
Dev - Ref, Dynamic Range



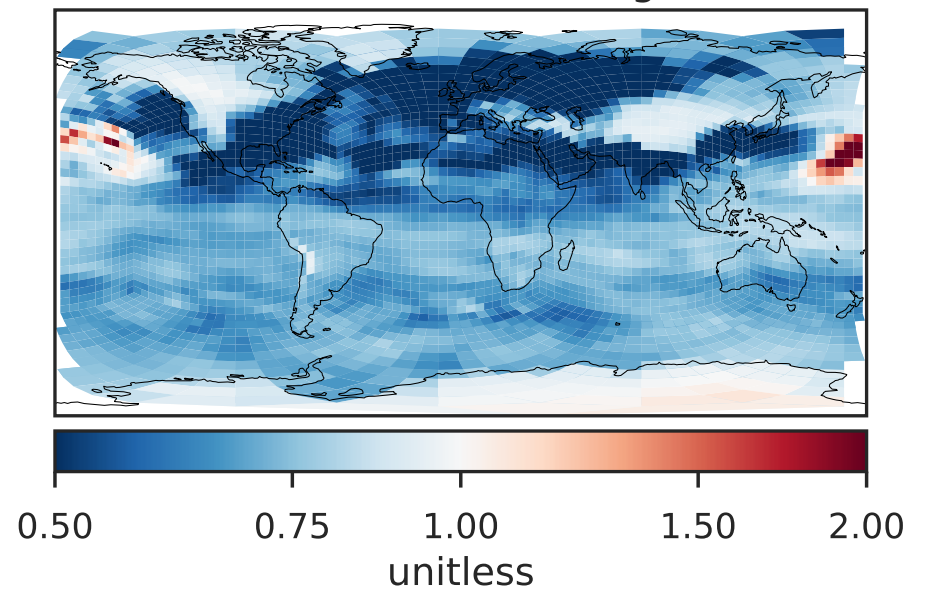
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

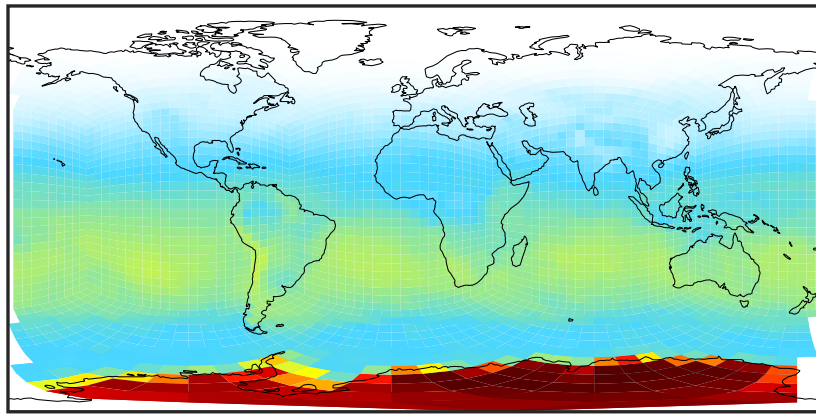


Ratio
Dev/Ref, Fixed Range



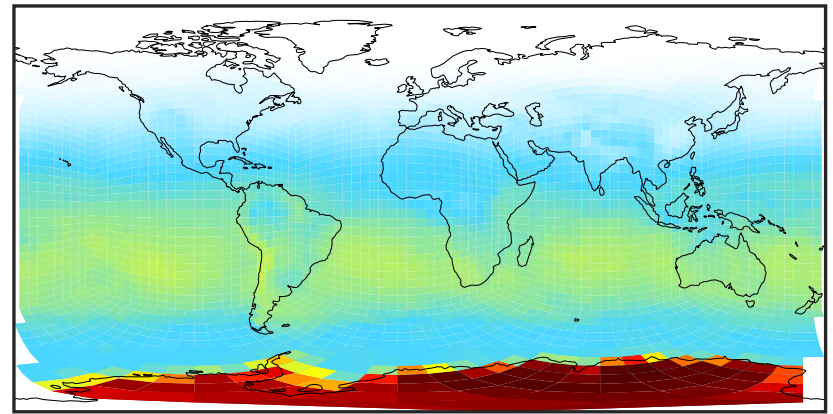
Jval_CH2I2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



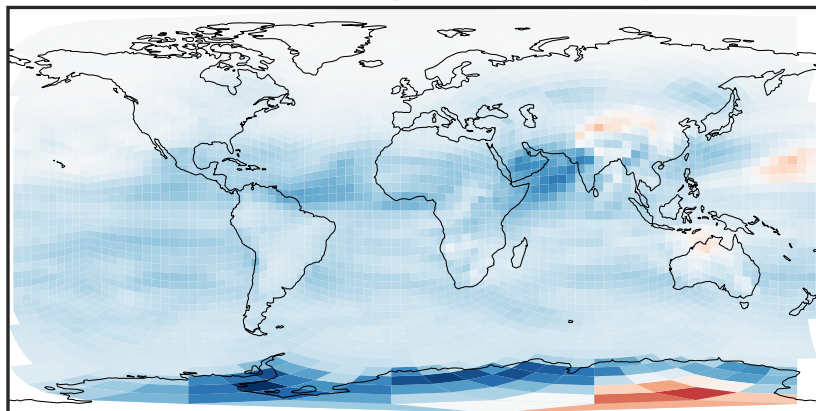
0.0000 0.0025 0.0050 0.0075
s-1

GCHP_14.2.0 (Dev)
c24



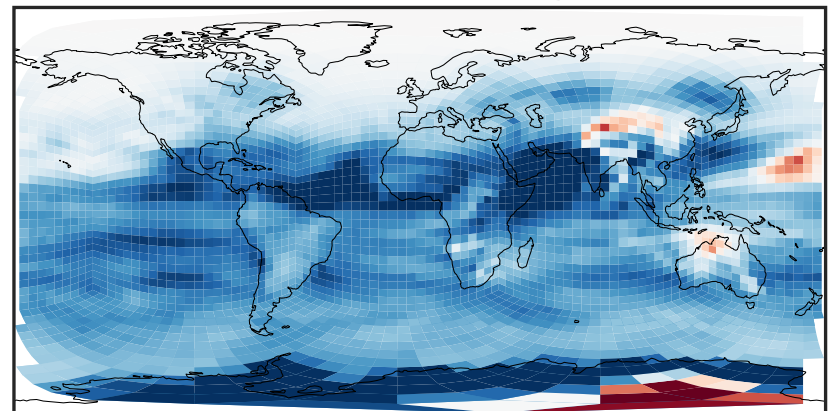
0.0000 0.0025 0.0050 0.0075
s-1

Difference
Dev - Ref, Dynamic Range



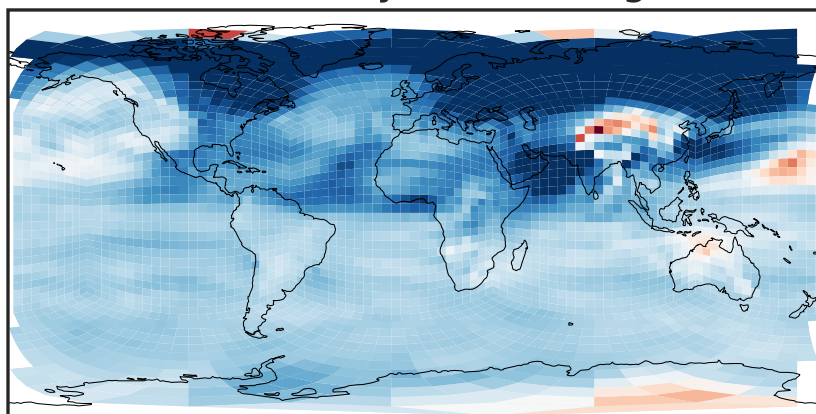
-2.5 0.0 2.5
s-1 1e-5

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



-1 0 1
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98976 0.99488 1.00000 1.00517 1.01035
unitless

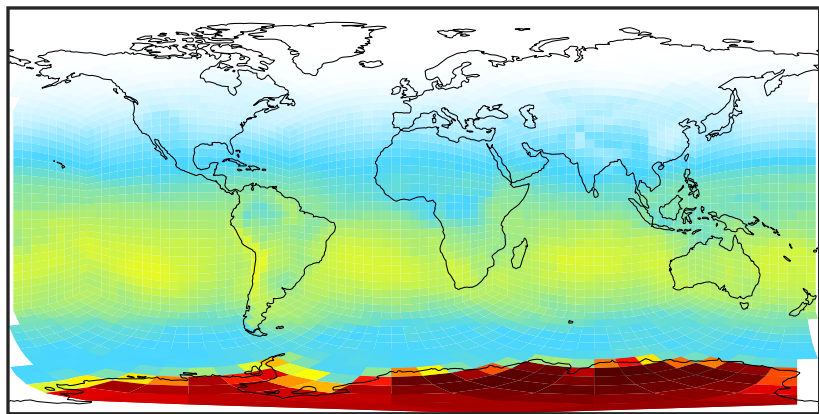
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

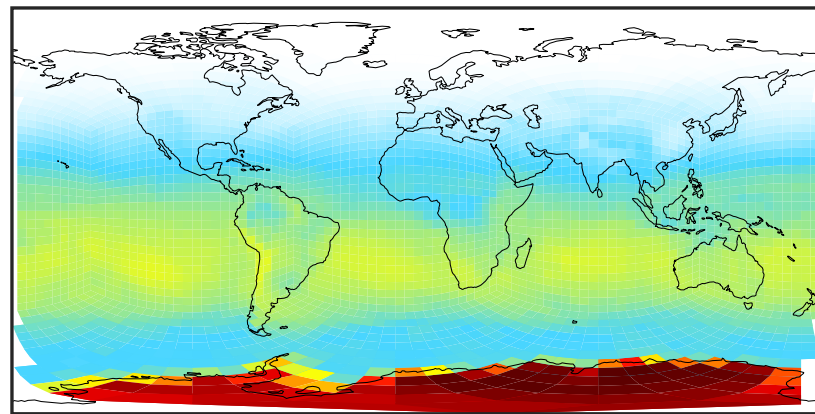
Jval_CH2IBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



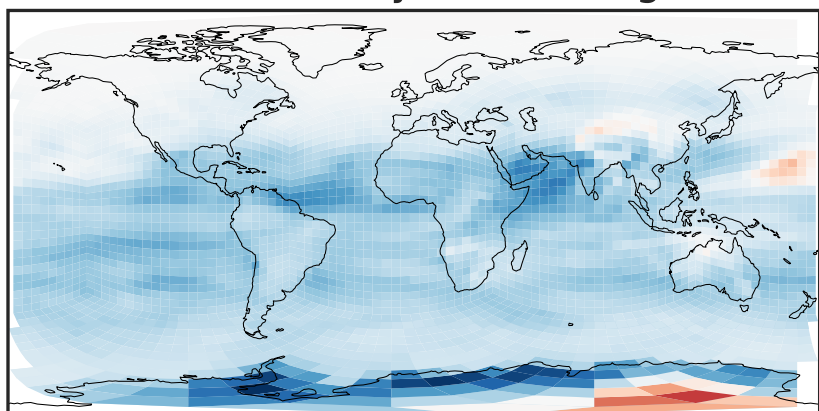
0.00000 0.00015 0.00030 0.00045
s-1

GCHP_14.2.0 (Dev)
c24



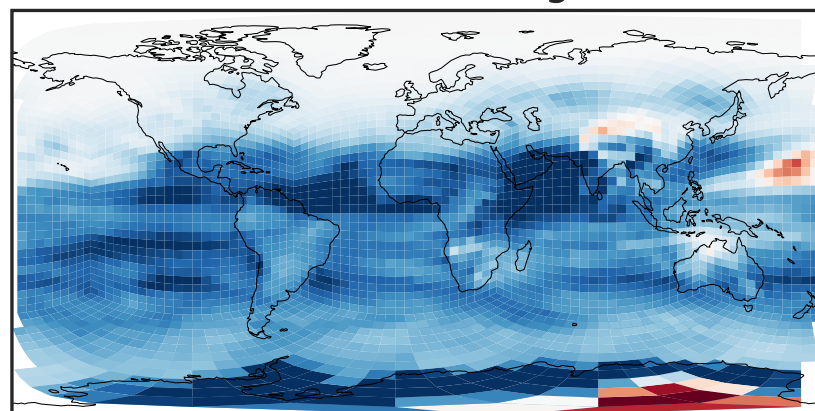
0.00000 0.00015 0.00030 0.00045
s-1

Difference
Dev - Ref, Dynamic Range



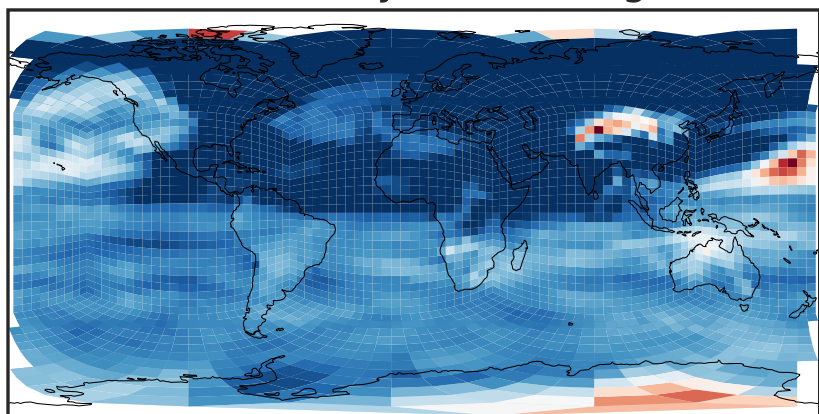
-2 0 2
s-1 $1e-6$

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



-8 0 8
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.99140 0.99570 1.00000 1.00433 1.00867
unitless

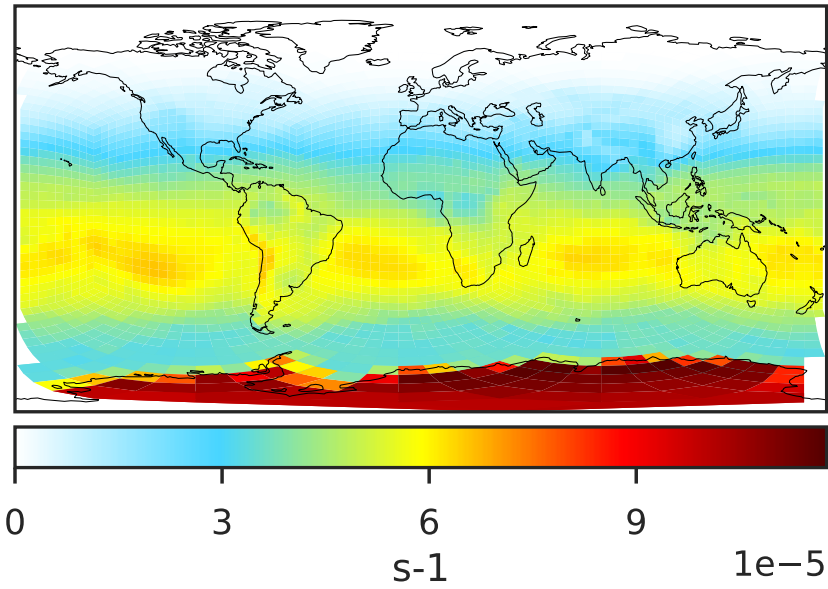
Ratio
Dev/Ref, Fixed Range



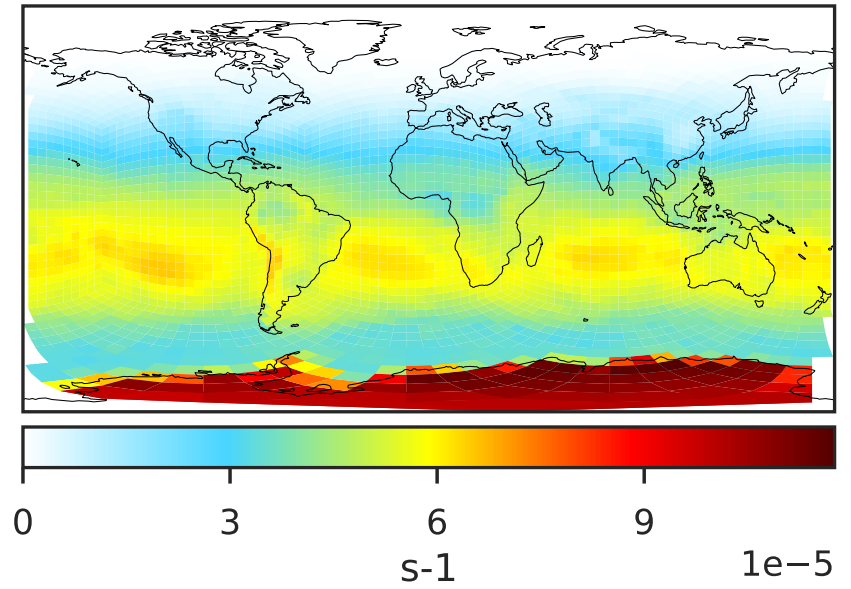
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CH2ICl (Jan2019)

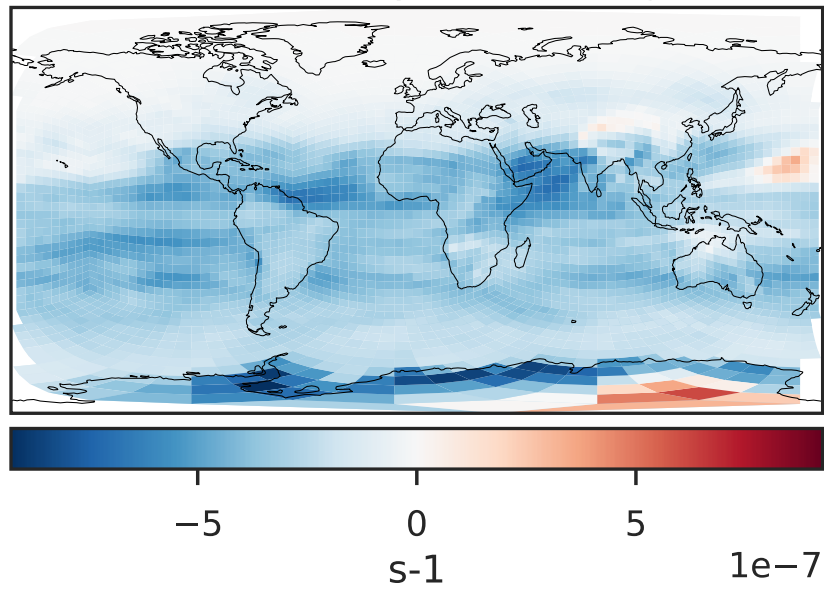
GCHP_14.0.0 (Ref)
c24



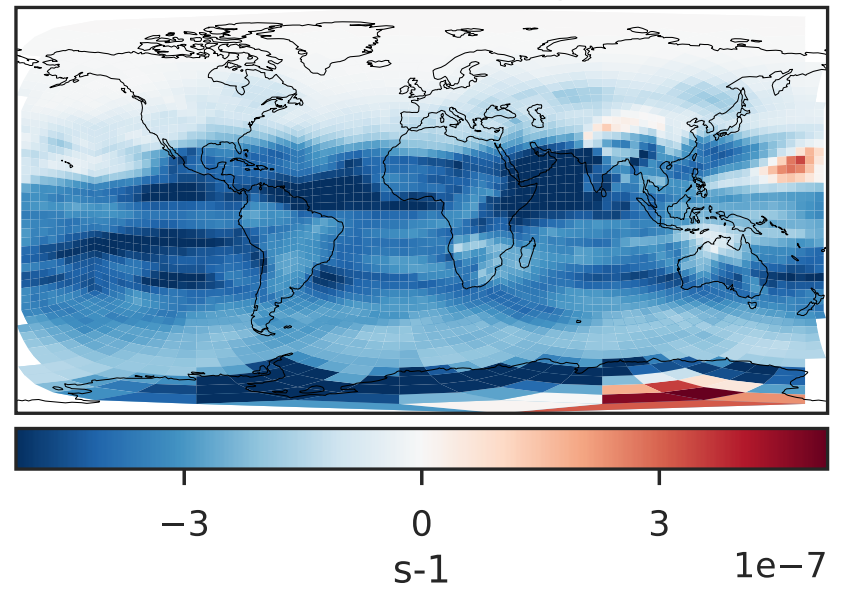
GCHP_14.2.0 (Dev)
c24



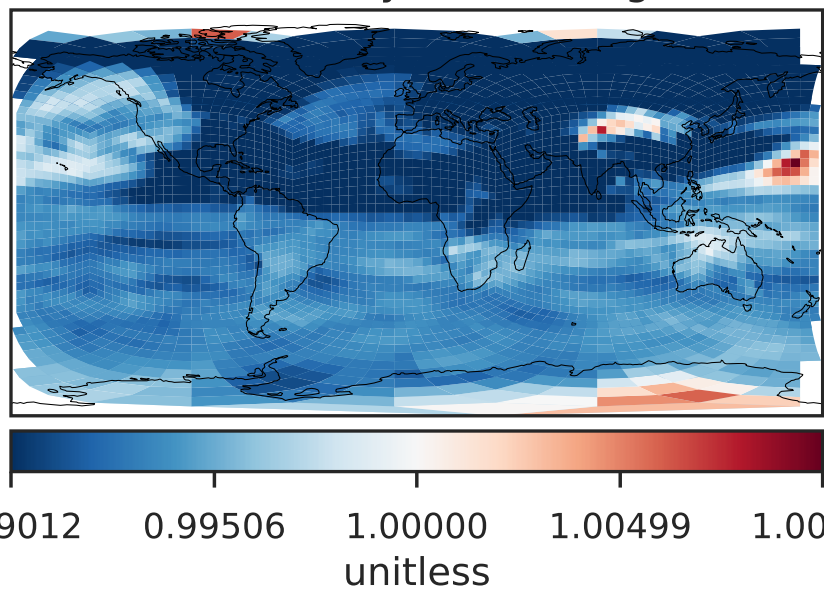
Difference
Dev - Ref, Dynamic Range



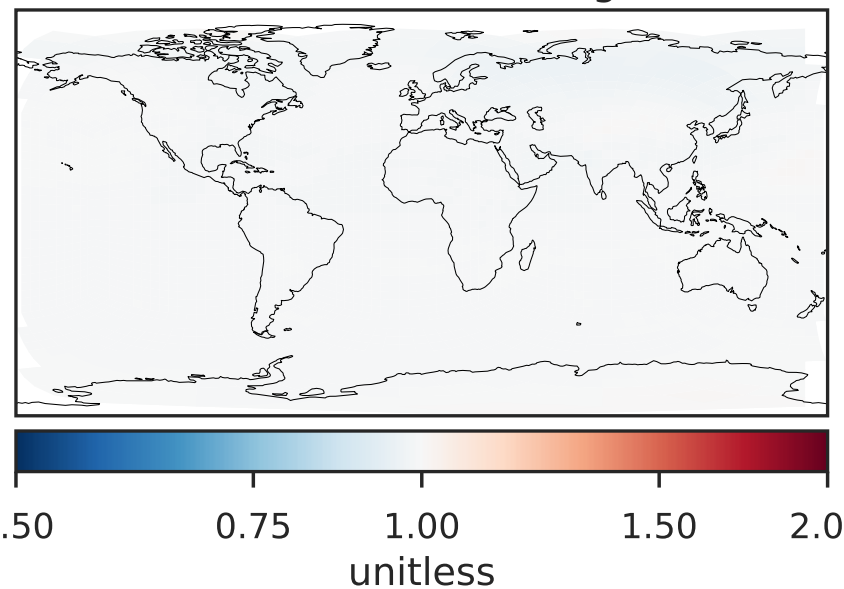
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

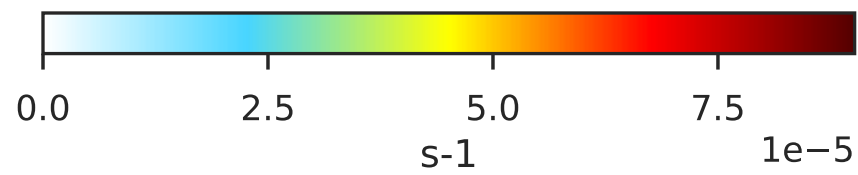
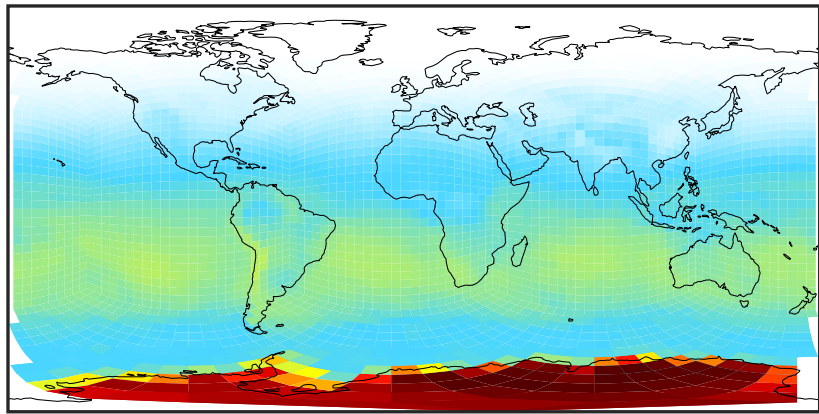


Ratio
Dev/Ref, Fixed Range

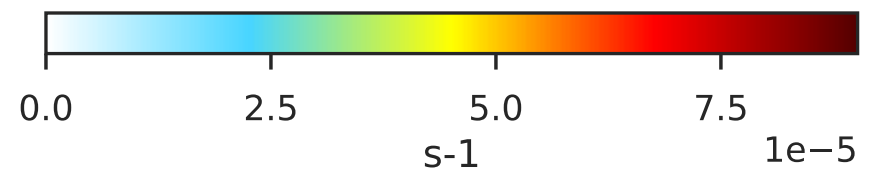
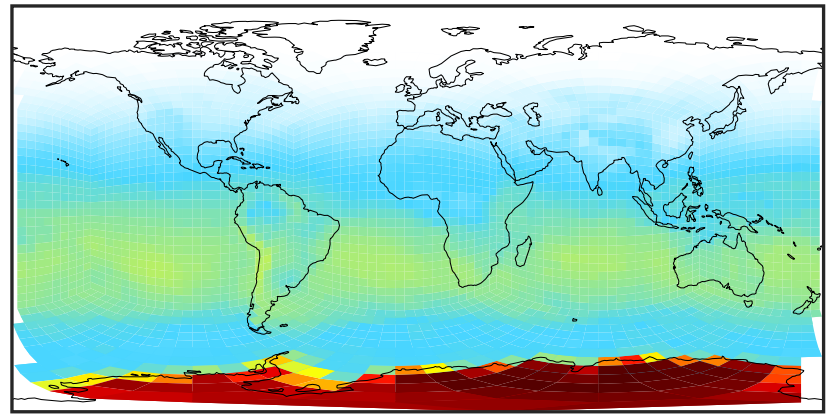


Jval_CH20 (Jan2019)

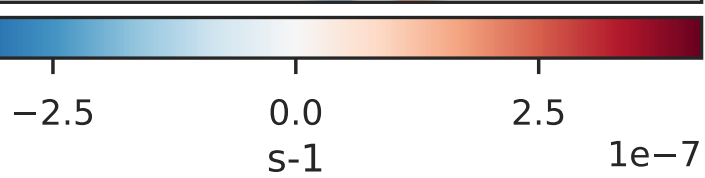
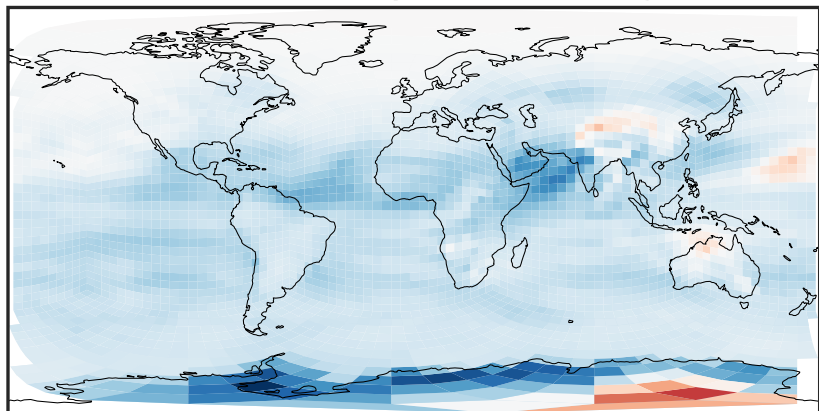
GCHP_14.0.0 (Ref)
c24



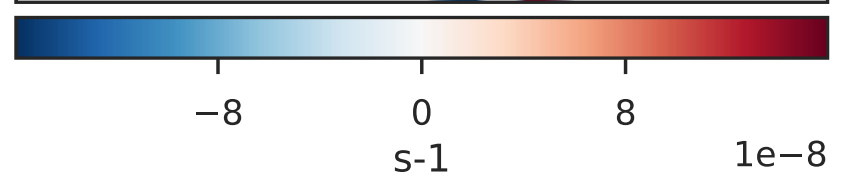
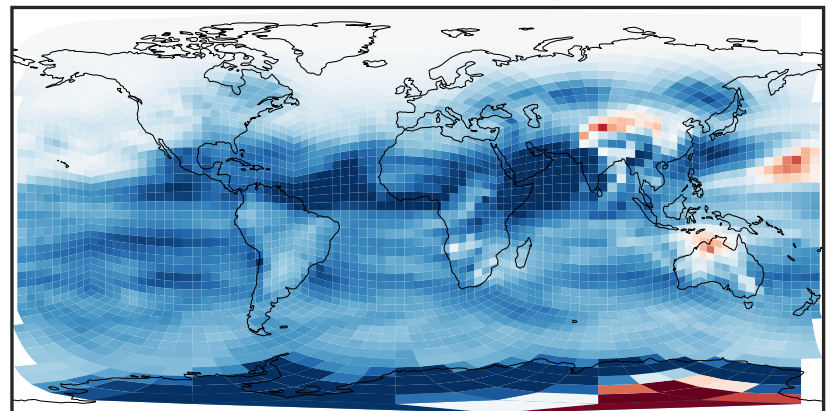
GCHP_14.2.0 (Dev)
c24



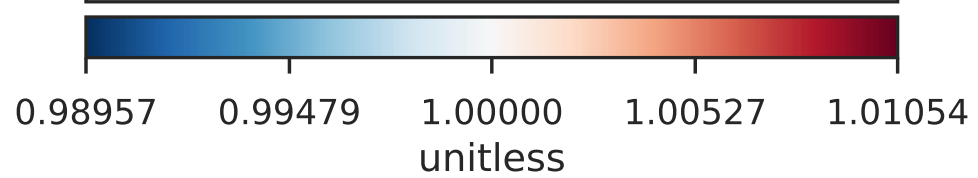
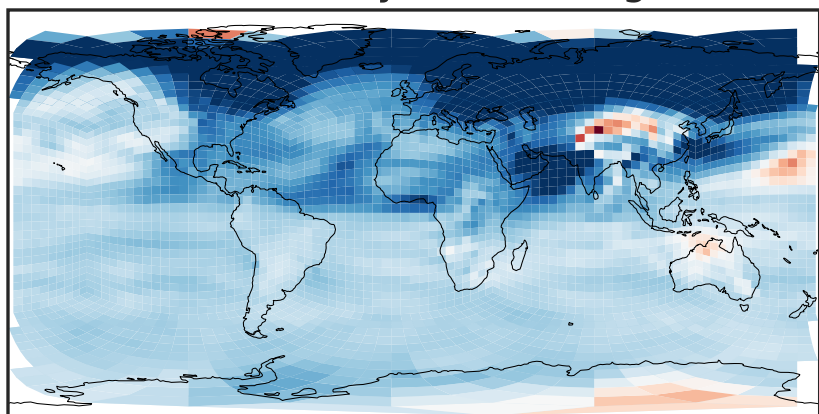
Difference
Dev - Ref, Dynamic Range



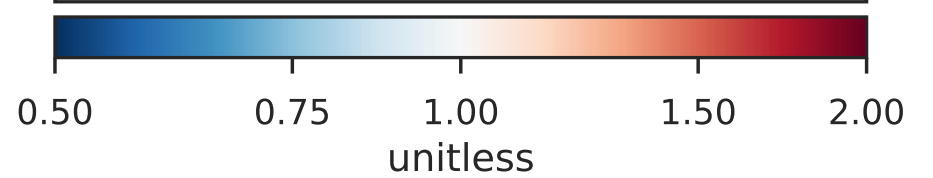
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

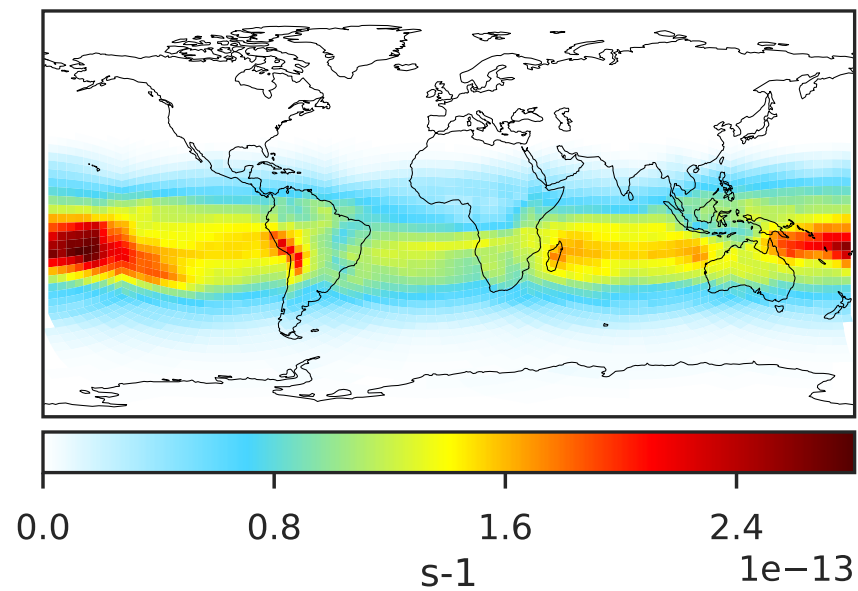


Ratio
Dev/Ref, Fixed Range

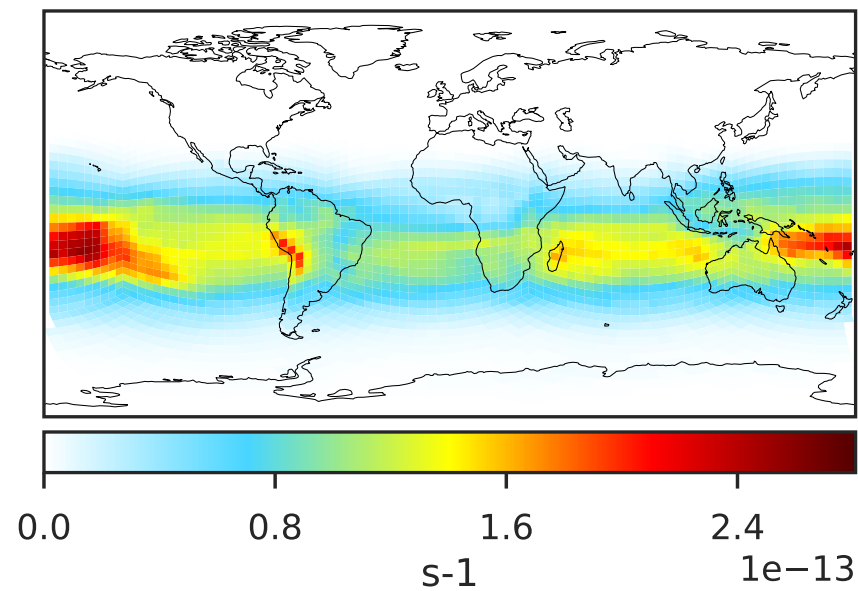


Jval_CH3Br (Jan2019)

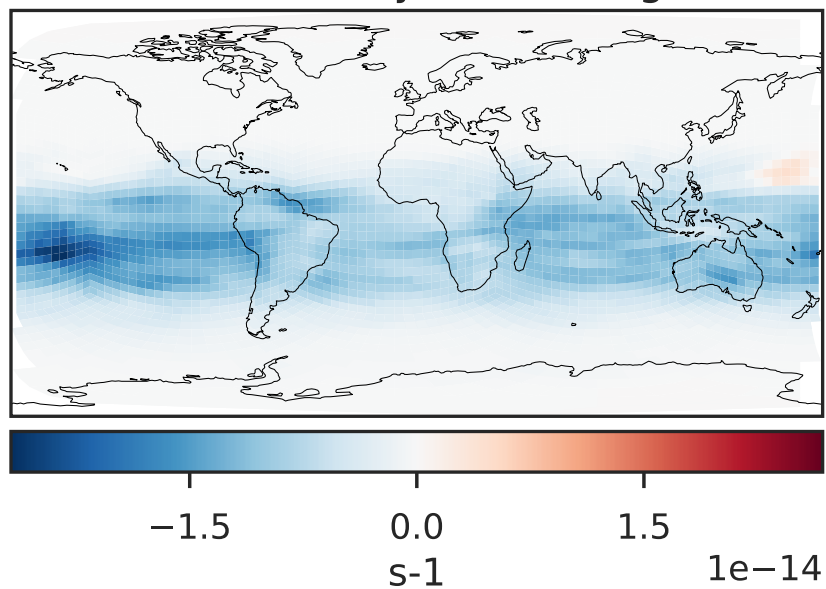
GCHP_14.0.0 (Ref)
c24



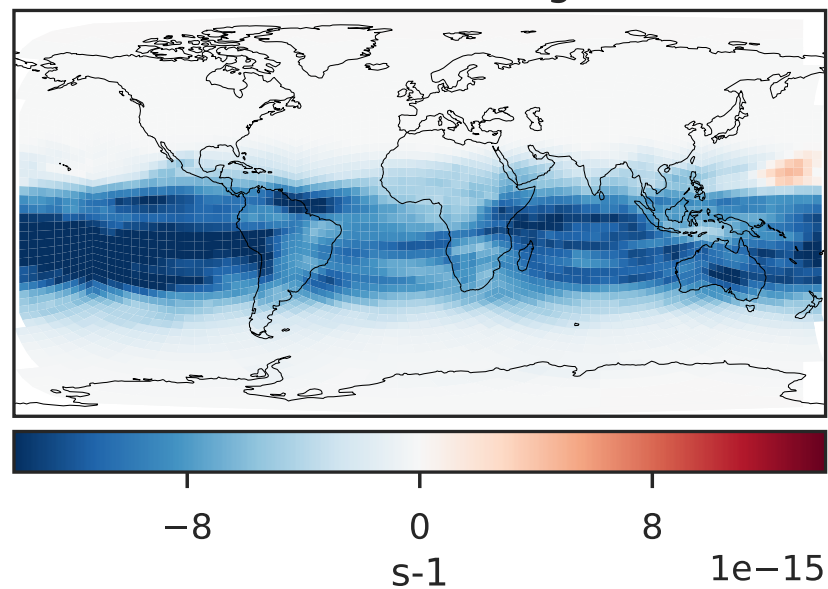
GCHP_14.2.0 (Dev)
c24



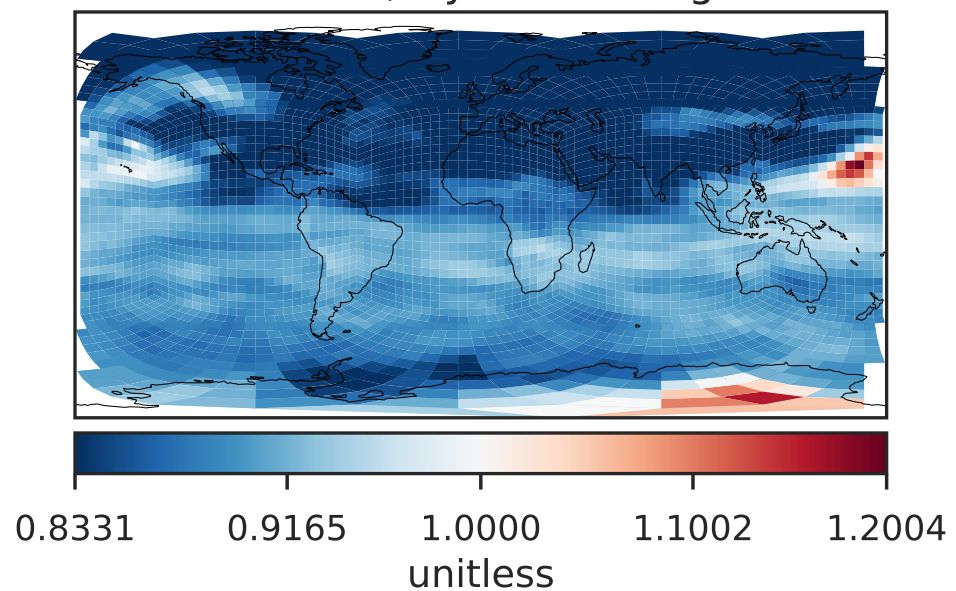
Difference
Dev - Ref, Dynamic Range



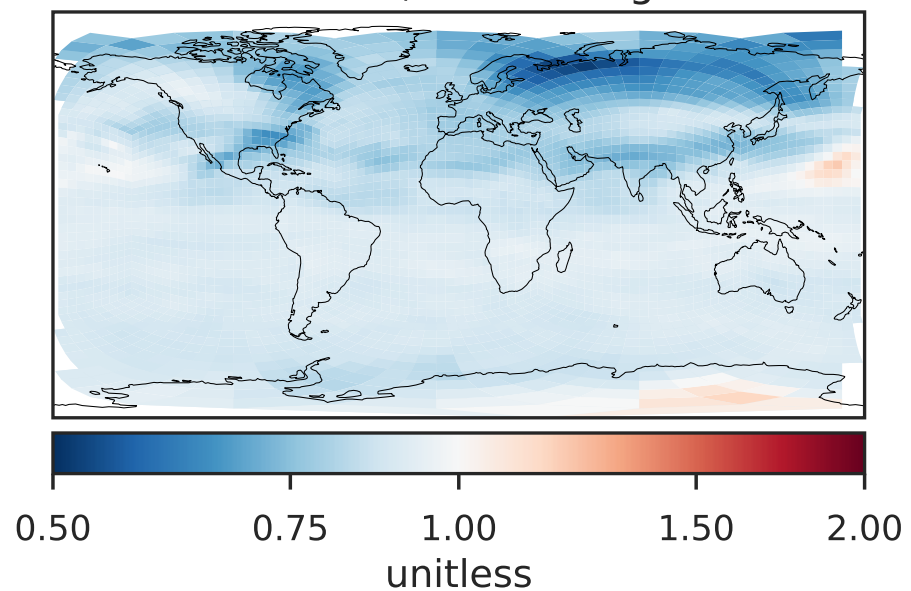
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

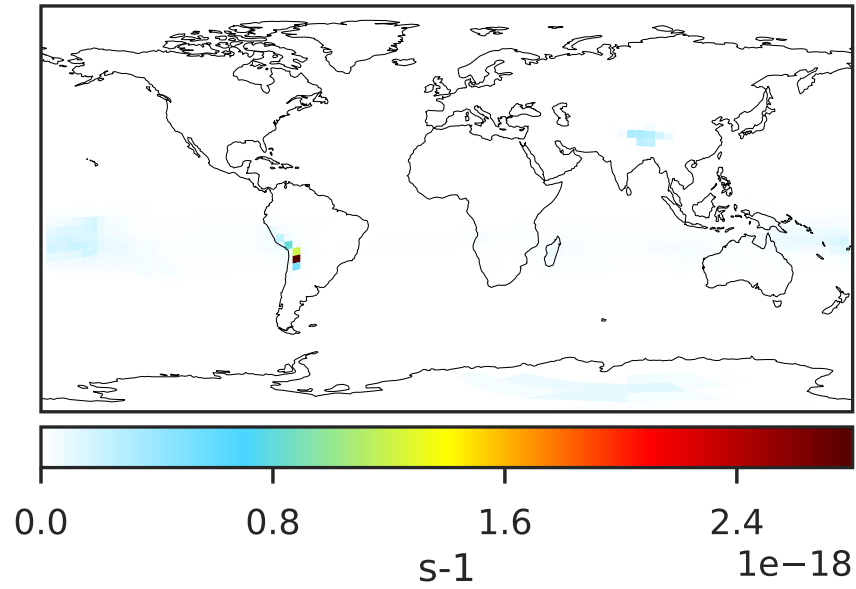


Ratio
Dev/Ref, Fixed Range

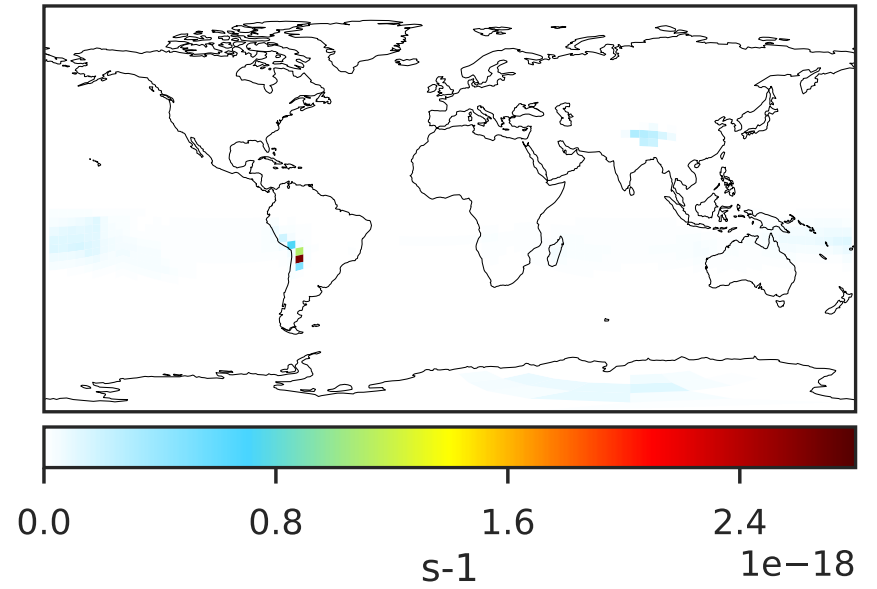


Jval_CH3CCI3 (Jan2019)

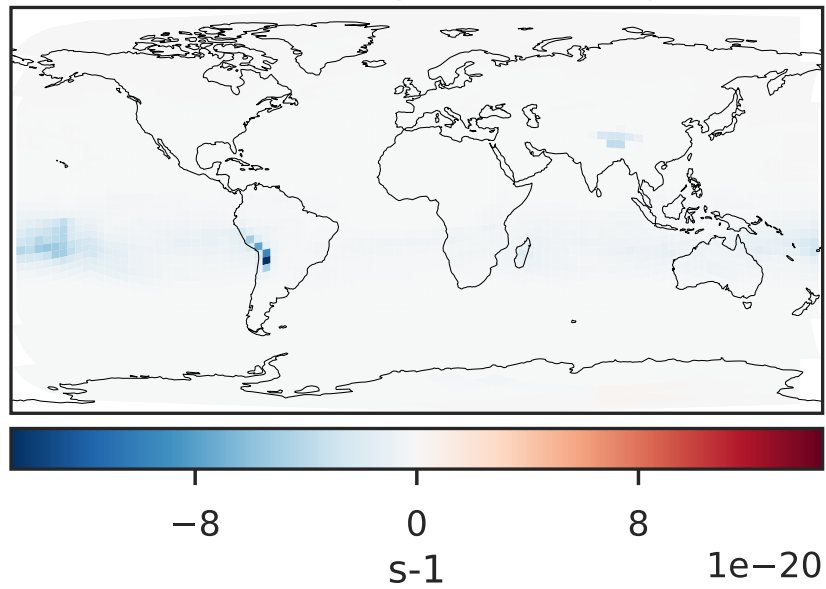
GCHP_14.0.0 (Ref)
c24



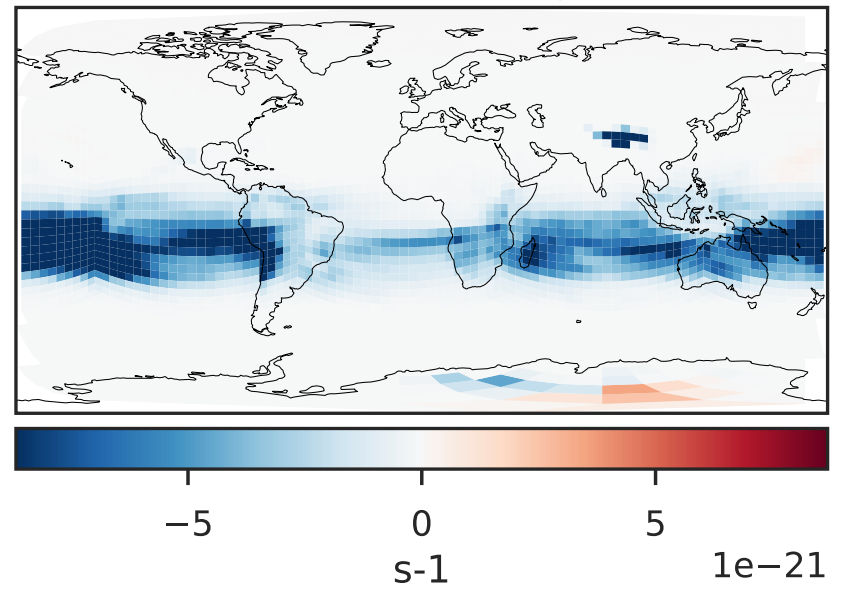
GCHP_14.2.0 (Dev)
c24



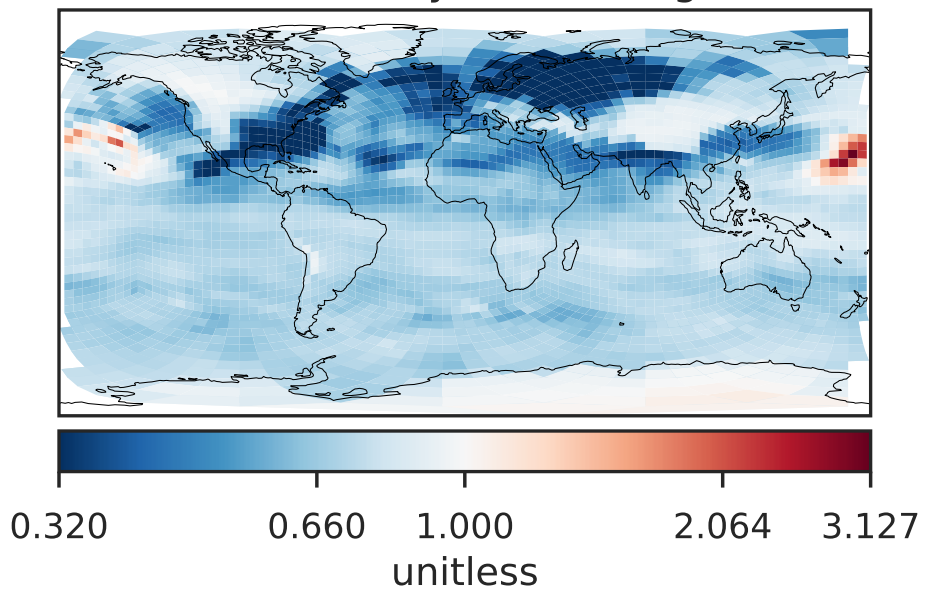
Difference
Dev - Ref, Dynamic Range



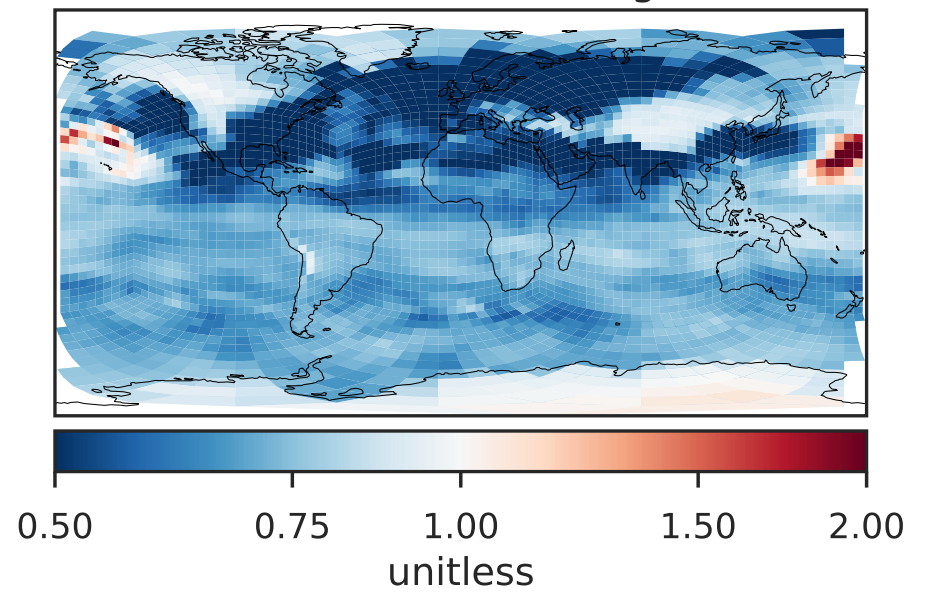
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

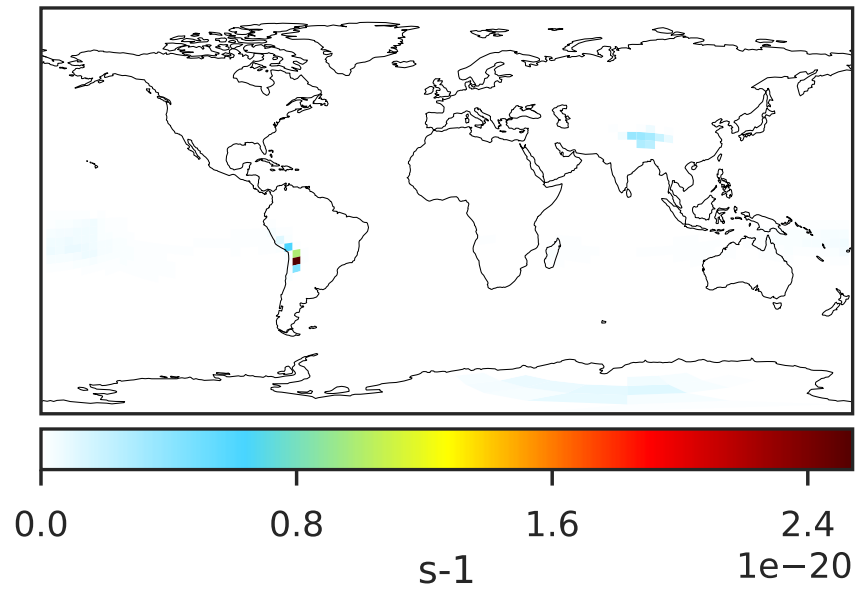


Ratio
Dev/Ref, Fixed Range

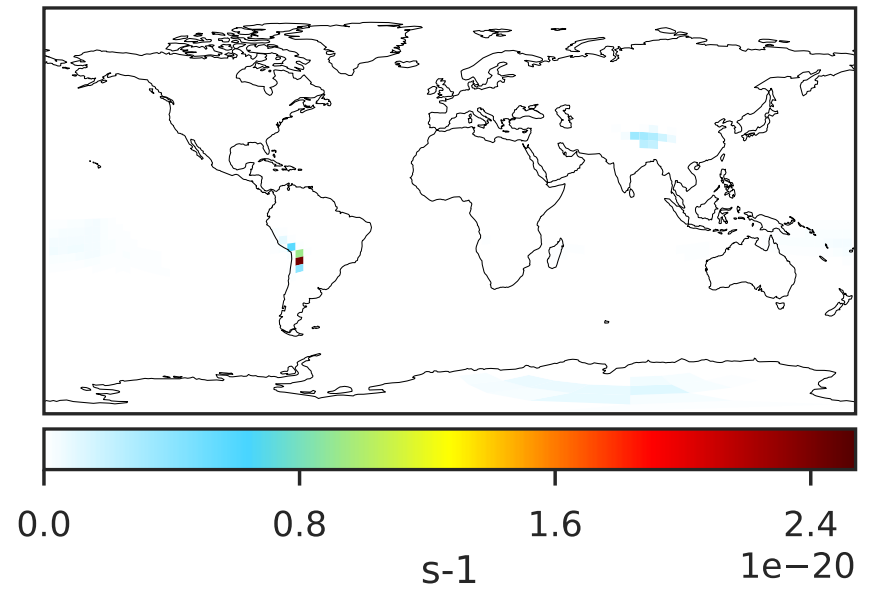


Jval_CH3Cl (Jan2019)

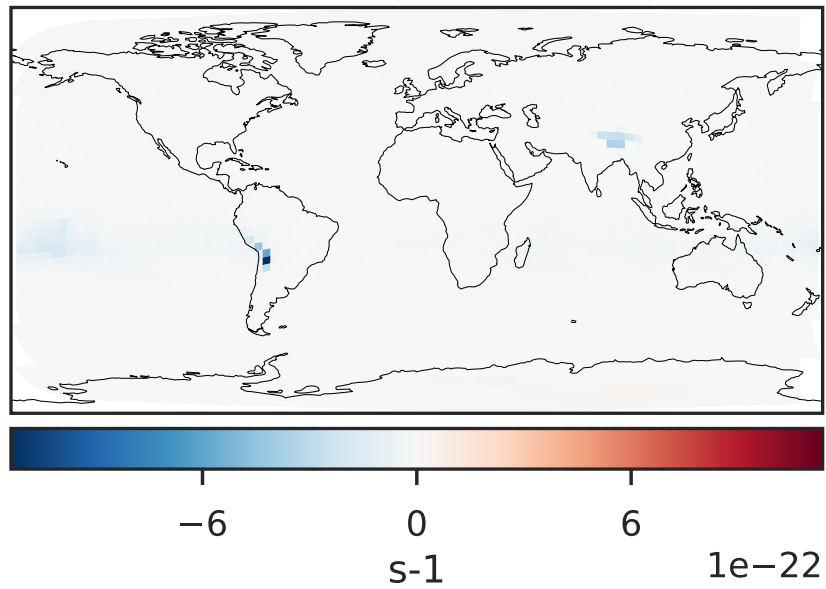
GCHP_14.0.0 (Ref)
c24



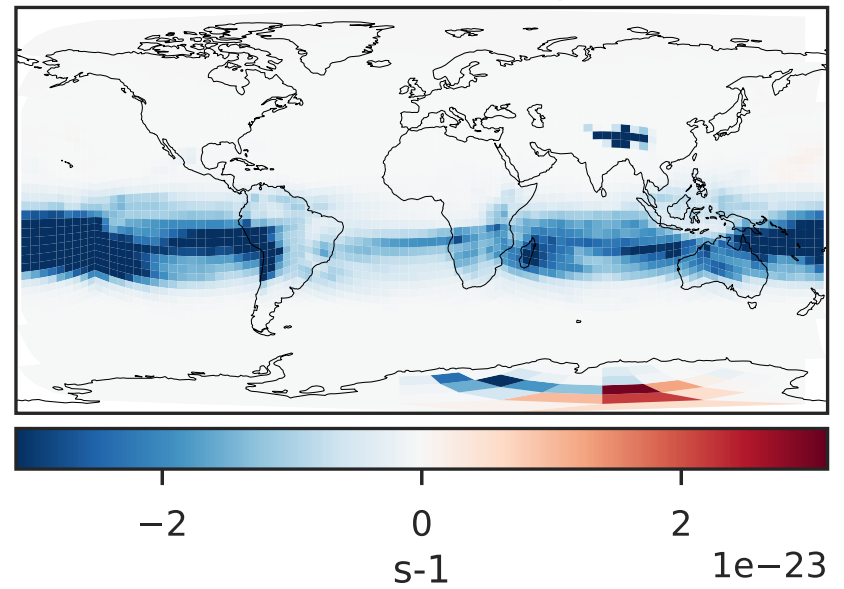
GCHP_14.2.0 (Dev)
c24



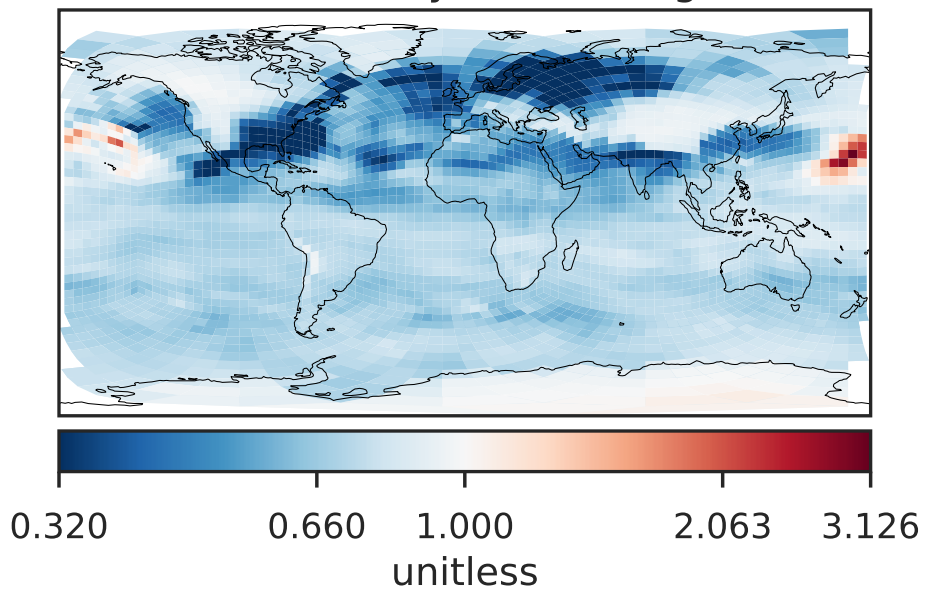
Difference
Dev - Ref, Dynamic Range



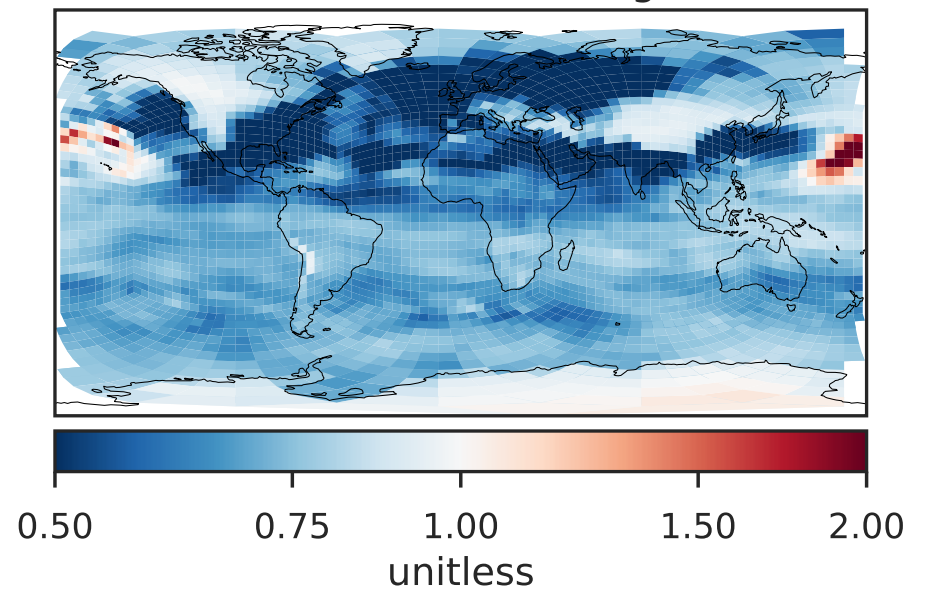
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

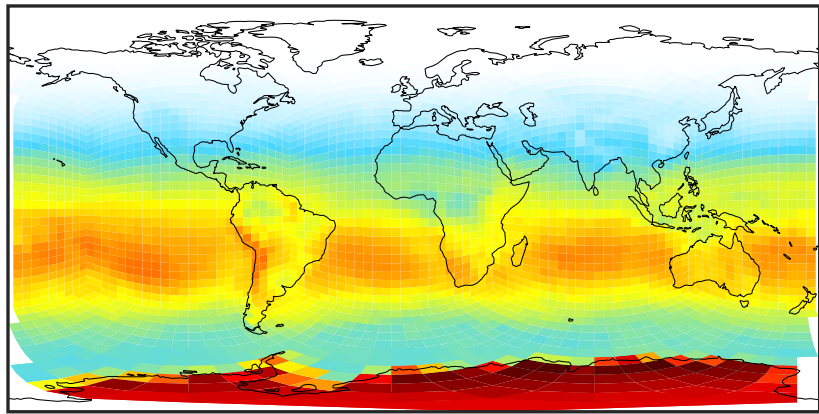


Ratio
Dev/Ref, Fixed Range



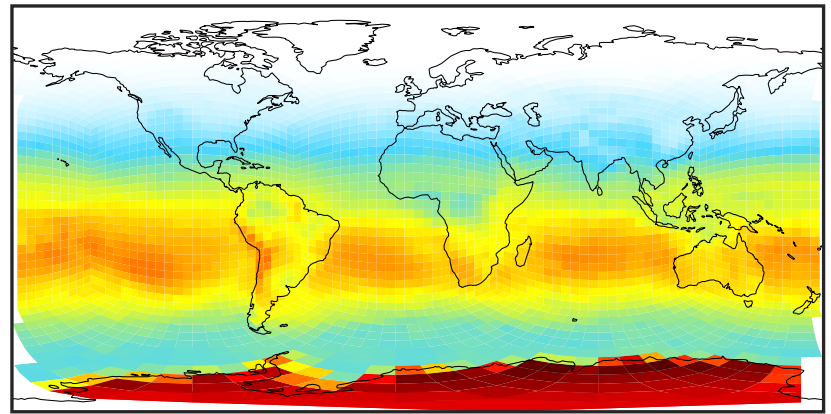
Jval_CH3I (Jan2019)

GCHP_14.0.0 (Ref)
c24



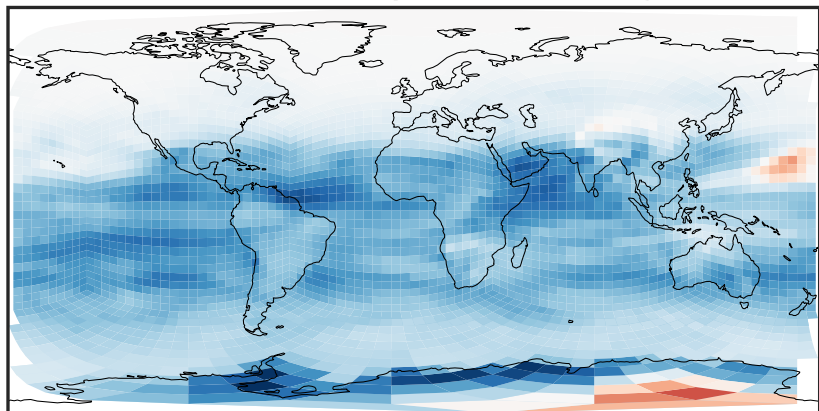
0.0 1.5 3.0
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



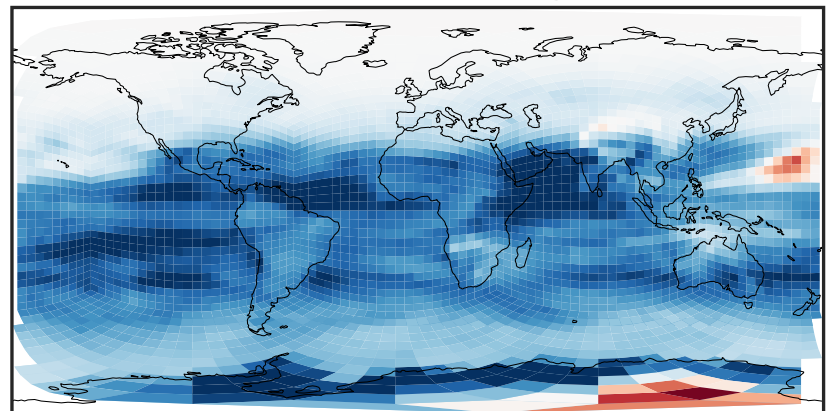
0.0 1.5 3.0
s-1 $1e-6$

Difference
Dev - Ref, Dynamic Range



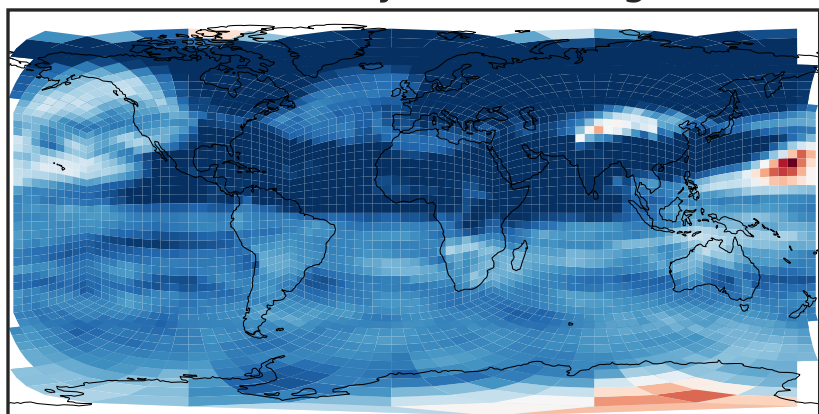
-2.5 0.0 2.5
s-1 $1e-8$

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



-2 0 2
s-1 $1e-8$

Ratio
Dev/Ref, Dynamic Range



0.98578 0.99289 1.00000 1.00721 1.01442
unitless

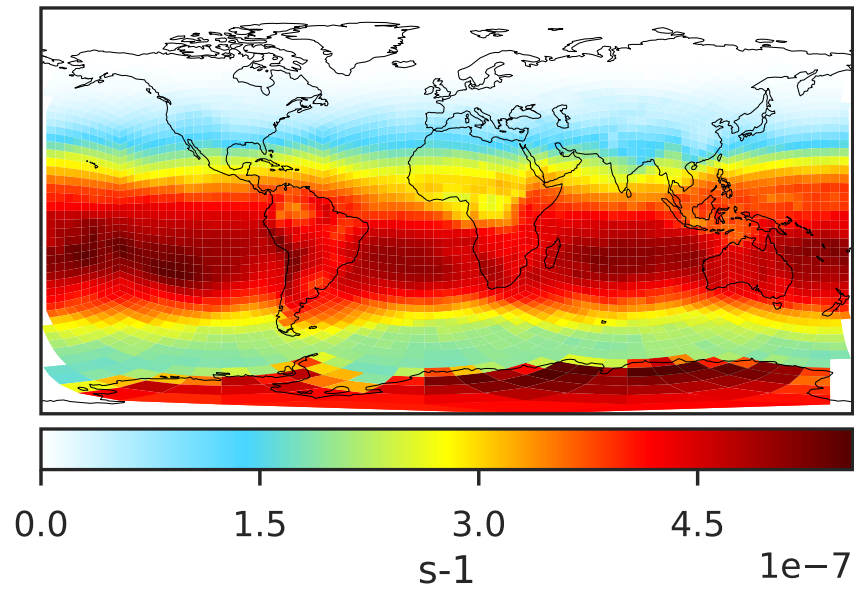
Ratio
Dev/Ref, Fixed Range



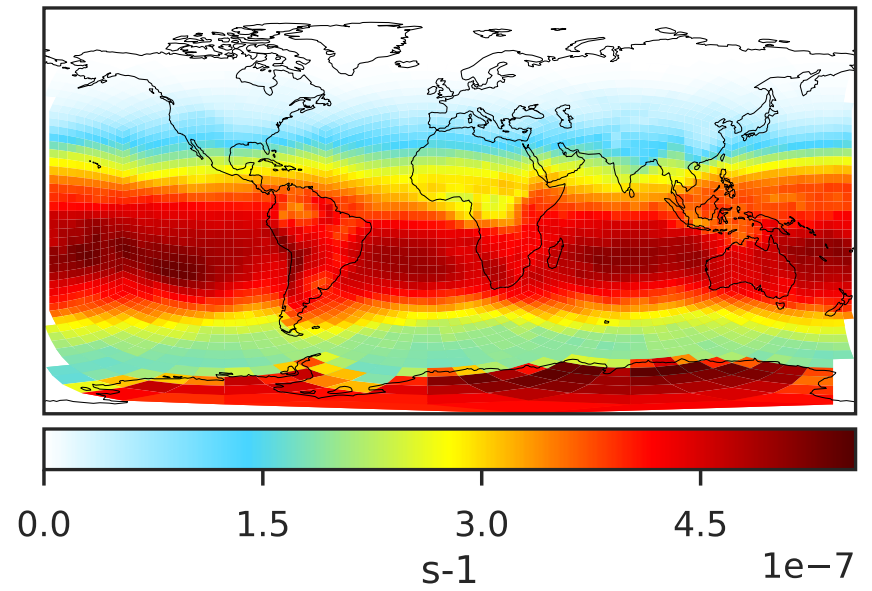
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CHBr3 (Jan2019)

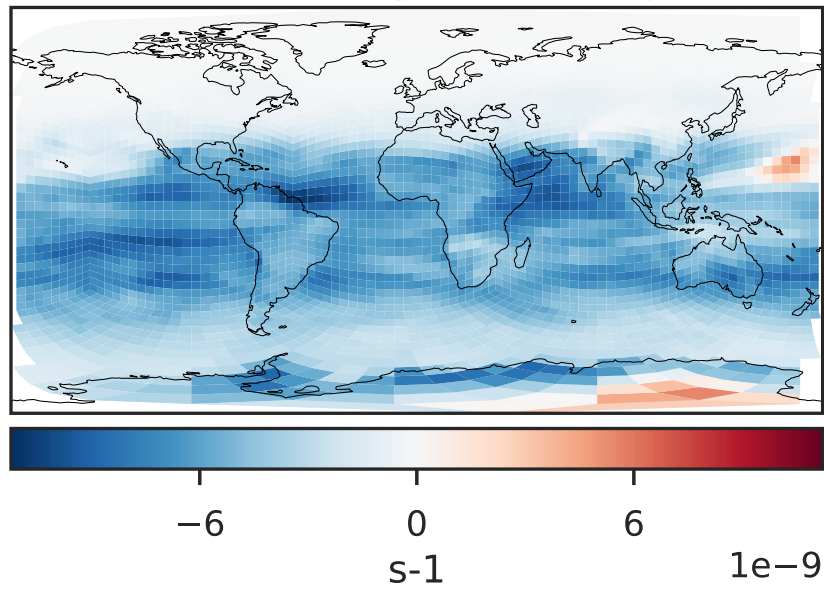
GCHP_14.0.0 (Ref)
c24



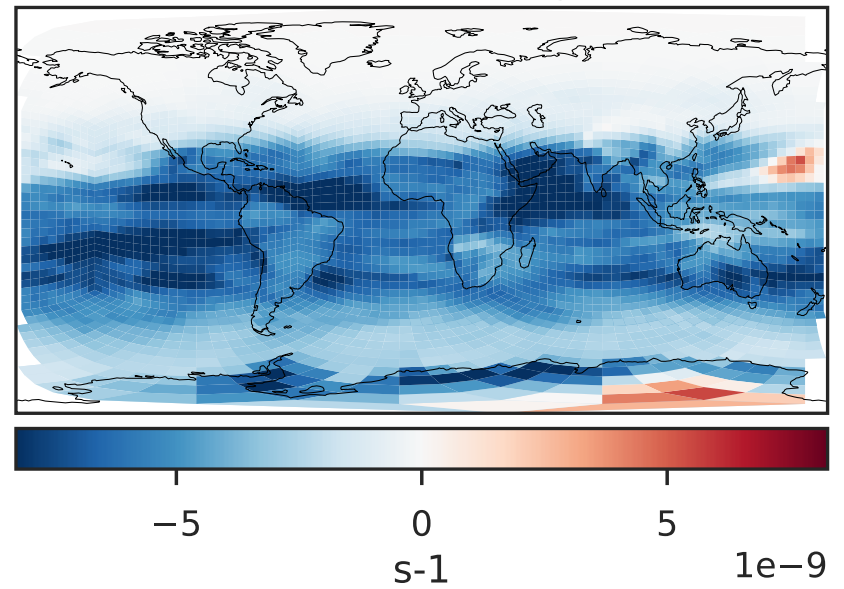
GCHP_14.2.0 (Dev)
c24



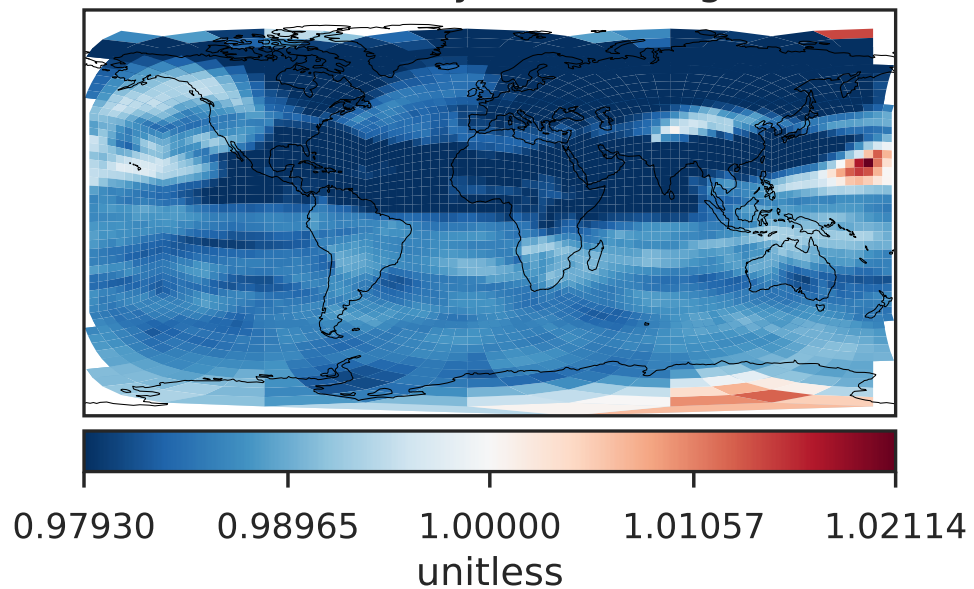
Difference
Dev - Ref, Dynamic Range



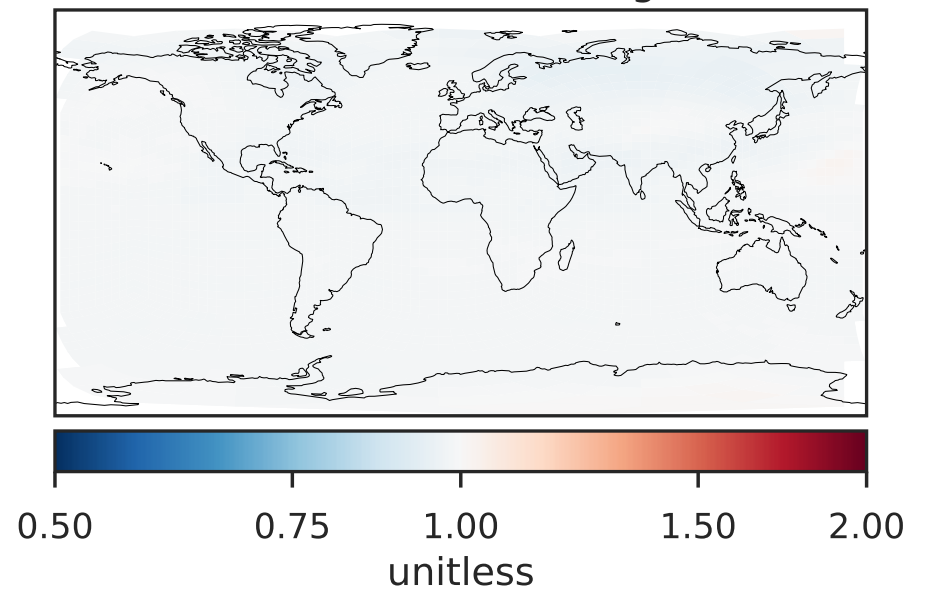
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



Jval_CHCl3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



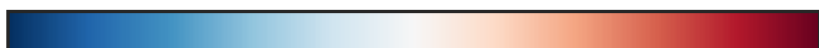
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



Zero throughput domain
s-1

Difference
Dev - Ref, Dynamic Range



Zero throughput domain
s-1

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



Zero throughput domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

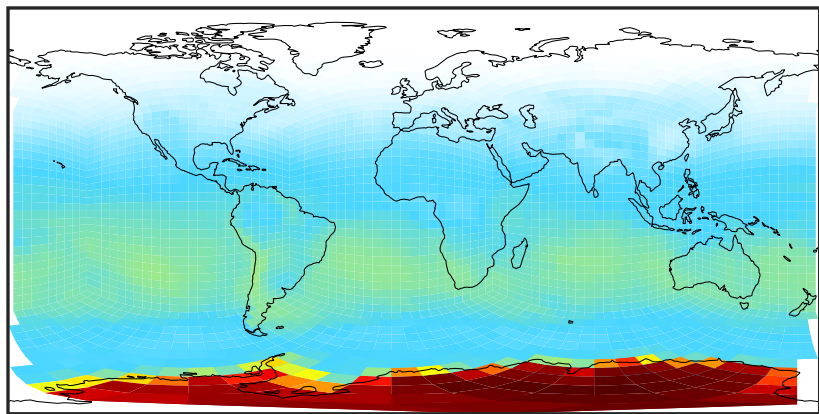
Ratio
Dev/Ref, Fixed Range



Undefined throughput domain
unitless

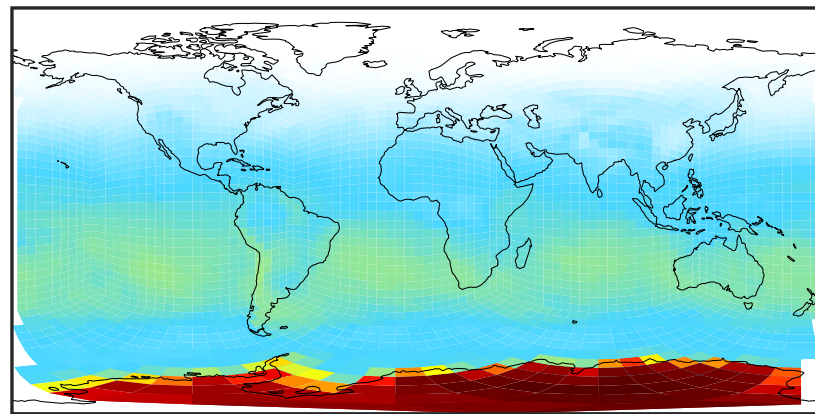
Jval_CI2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



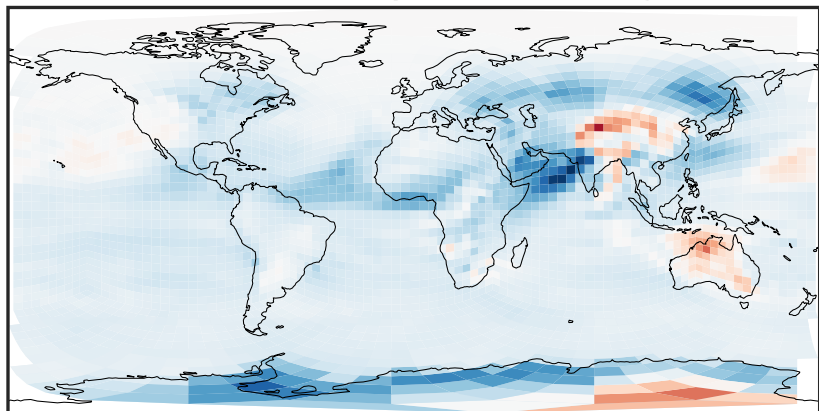
0.0000 0.0008 0.0016 0.0024
s-1

GCHP_14.2.0 (Dev)
c24



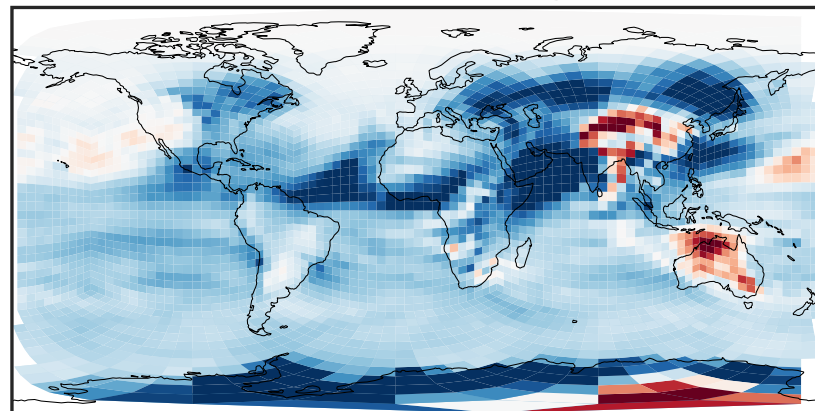
0.0000 0.0008 0.0016 0.0024
s-1

Difference
Dev - Ref, Dynamic Range



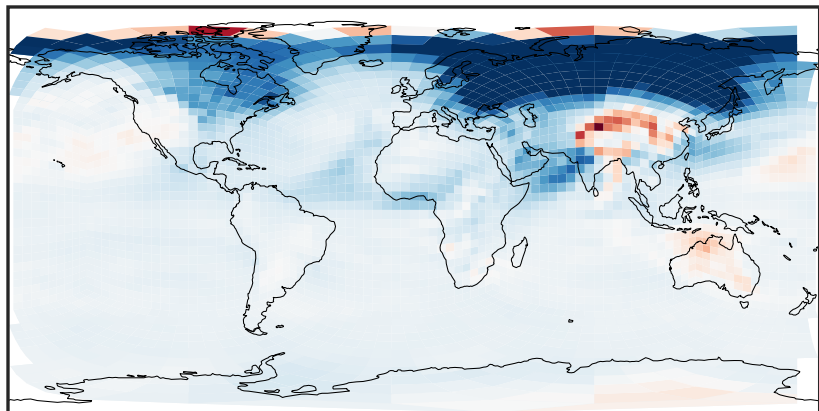
-3 0 3
s-1 1e-6

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



-1.5 0.0 1.5
s-1 1e-6

Ratio
Dev/Ref, Dynamic Range



0.98831 0.99415 1.00000 1.00592 1.01183
unitless

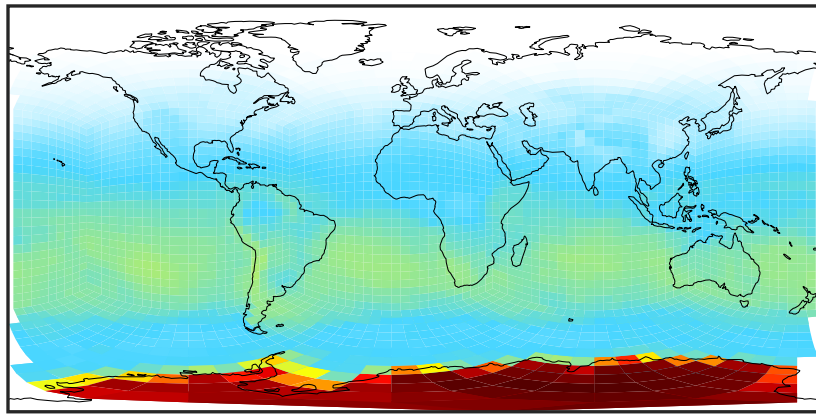
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

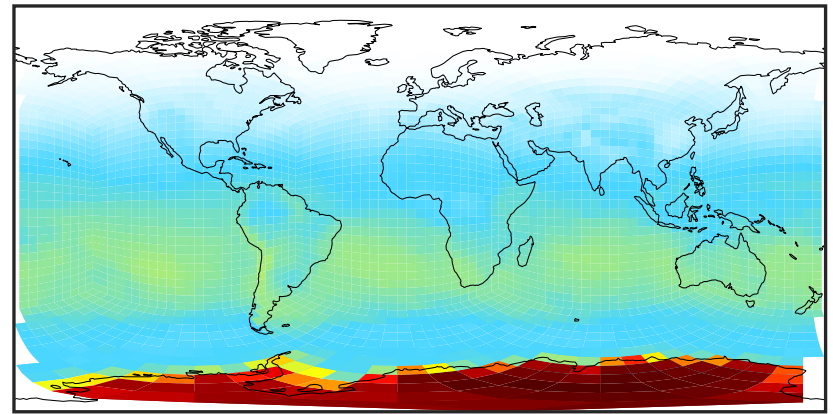
Jval_CI202 (Jan2019)

GCHP_14.0.0 (Ref)
c24



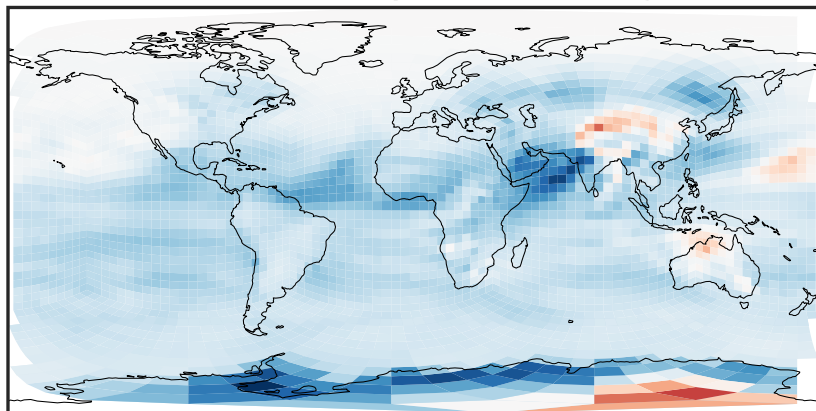
0.0000 0.0006 0.0012 0.0018
s-1

GCHP_14.2.0 (Dev)
c24



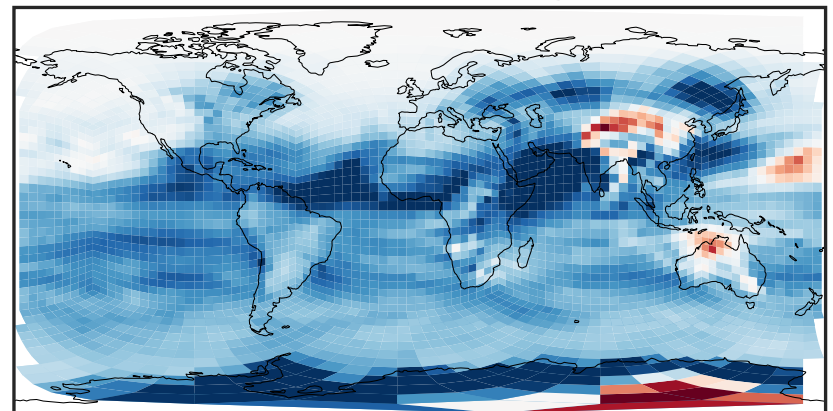
0.0000 0.0006 0.0012 0.0018
s-1

Difference
Dev - Ref, Dynamic Range



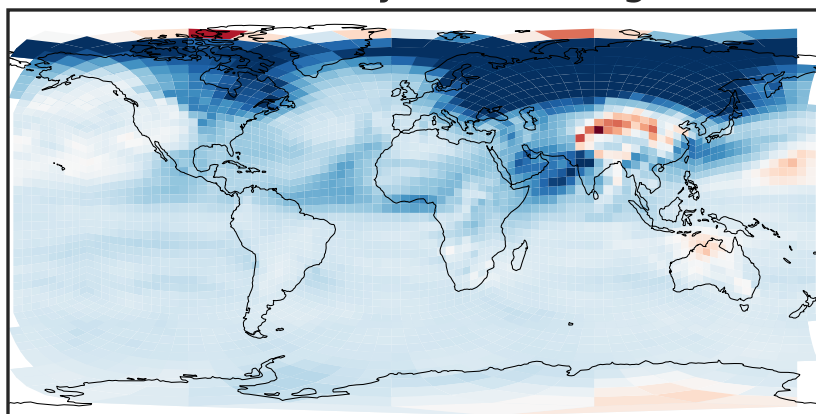
-3 0 3
s-1 1e-6

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



-1.5 0.0 1.5
s-1 1e-6

Ratio
Dev/Ref, Dynamic Range



0.98911 0.99456 1.00000 1.00550 1.01101
unitless

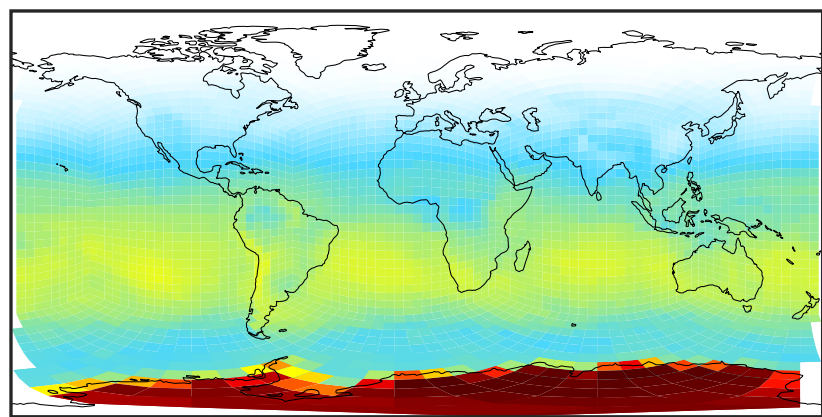
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

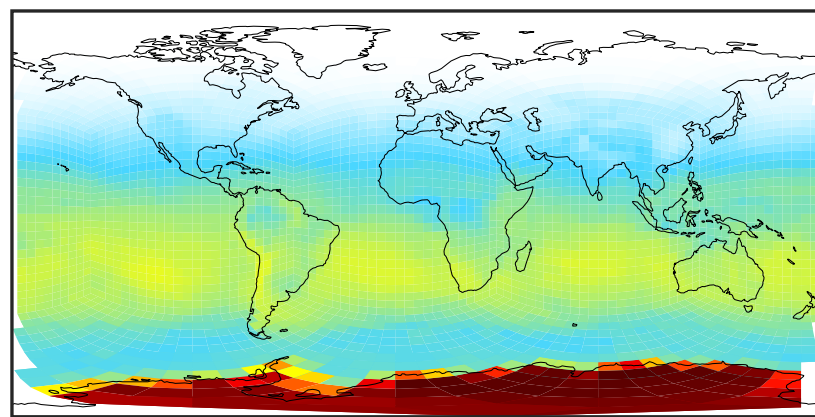
Jval_CINO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



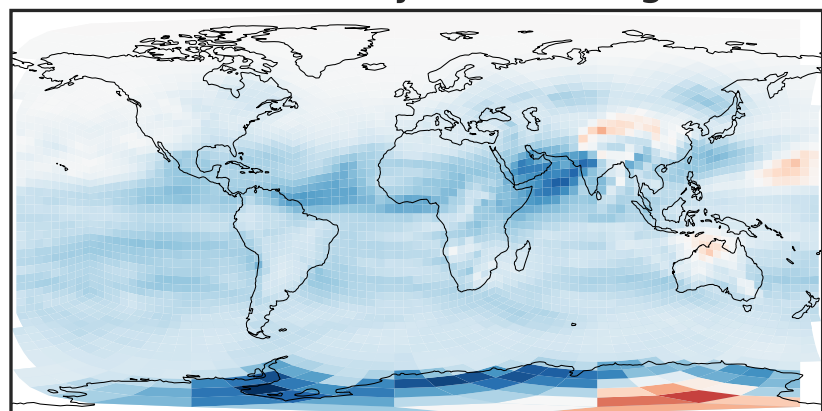
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



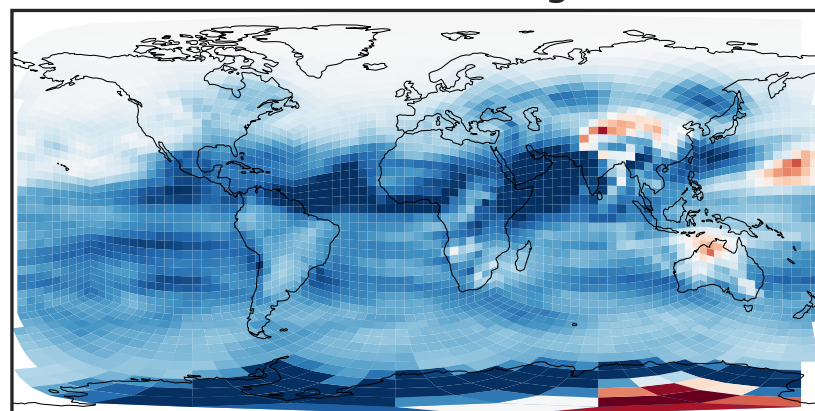
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



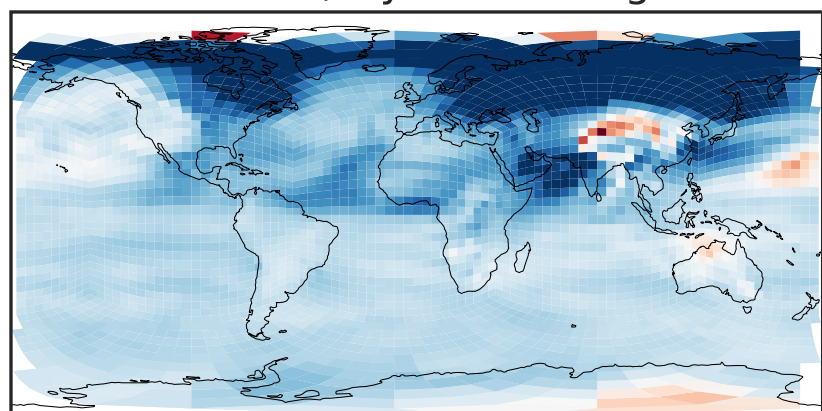
-8 0 8
s-1 1e-7

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



-4 0 4
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98946 0.99473 1.00000 1.00533 1.01065
unitless

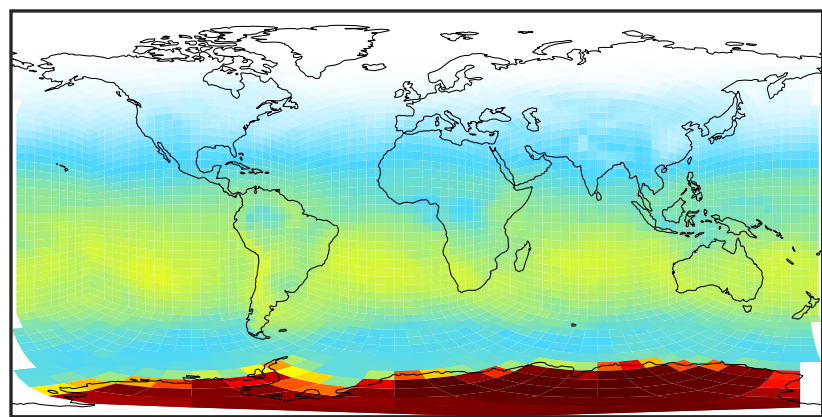
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

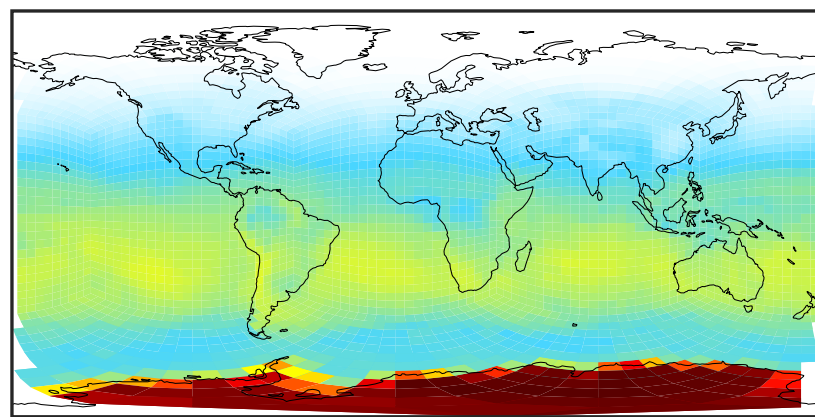
Jval_CINO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



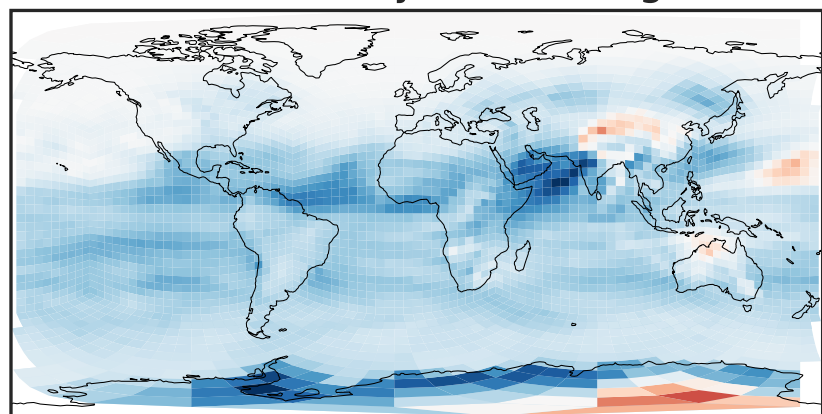
0.0 1.5 3.0 4.5
s-1 1e-5

GCHP_14.2.0 (Dev)
c24



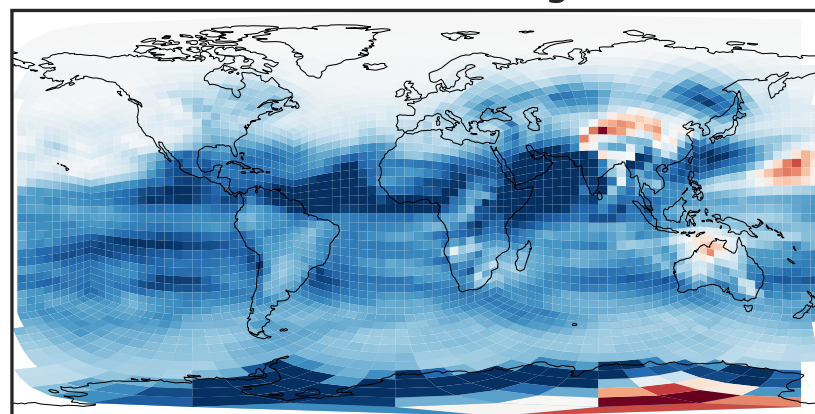
0.0 1.5 3.0 4.5
s-1 1e-5

Difference
Dev - Ref, Dynamic Range



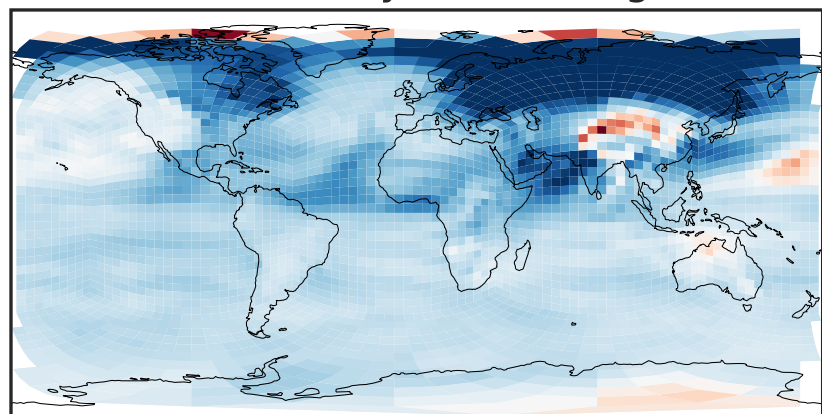
-8 0 8
s-1 1e-8

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



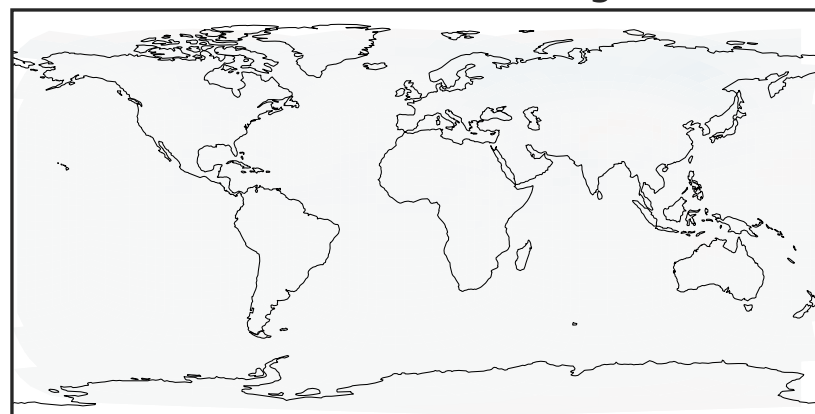
-5 0 5
s-1 1e-8

Ratio
Dev/Ref, Dynamic Range



0.98934 0.99467 1.00000 1.00539 1.01077
unitless

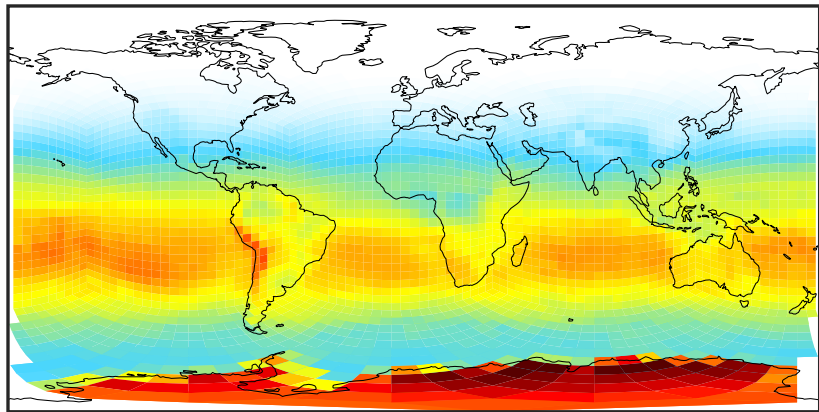
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

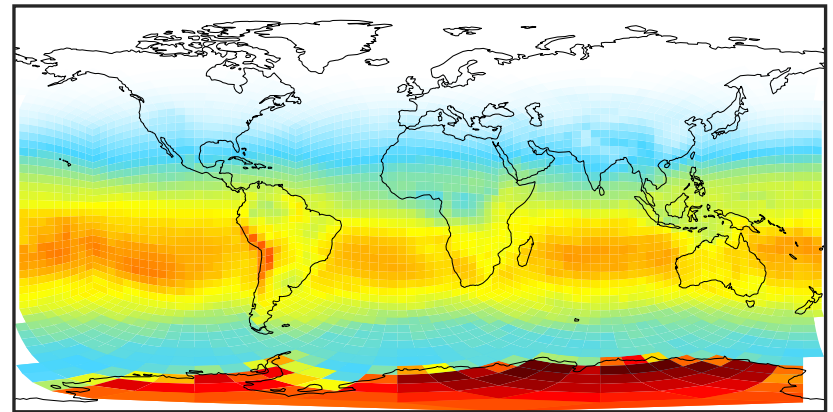
Jval_CIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



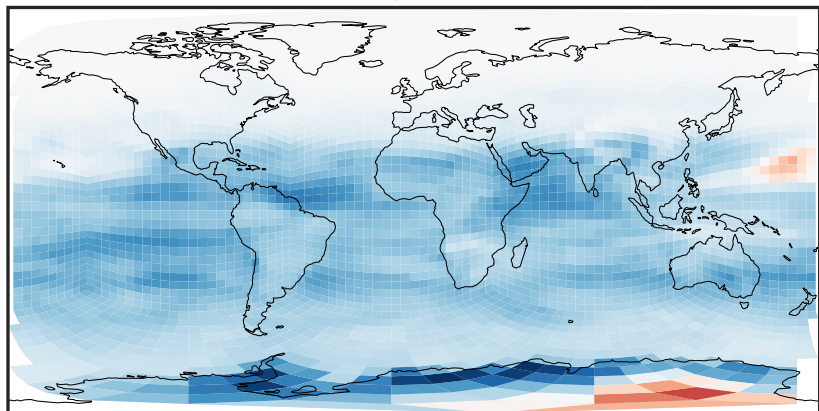
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



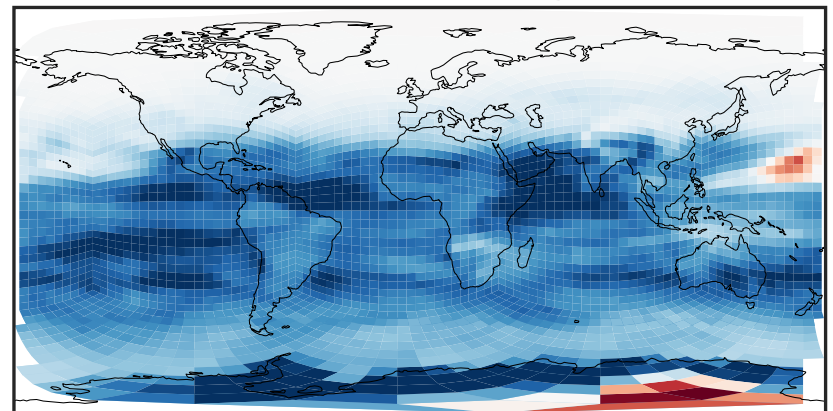
0.00000 0.00004 0.00008 0.00012
s-1

Difference
Dev - Ref, Dynamic Range



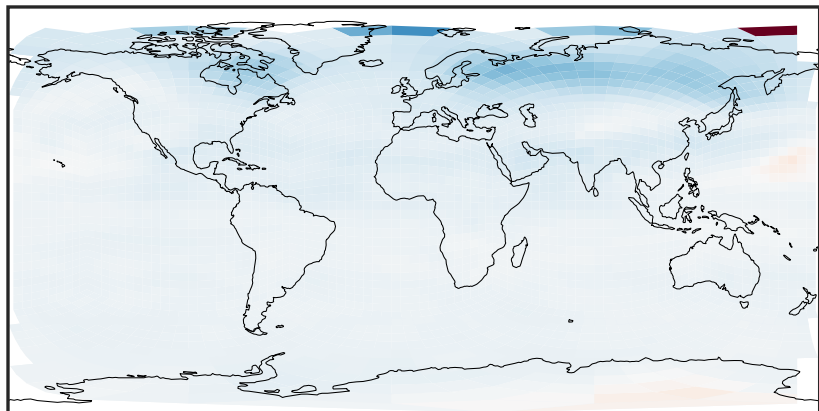
-1.5 0.0 1.5
s-1 10^{-6}

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



-8 0 8
s-1 10^{-7}

Ratio
Dev/Ref, Dynamic Range



0.7793 0.8897 1.0000 1.1416 1.2832
unitless

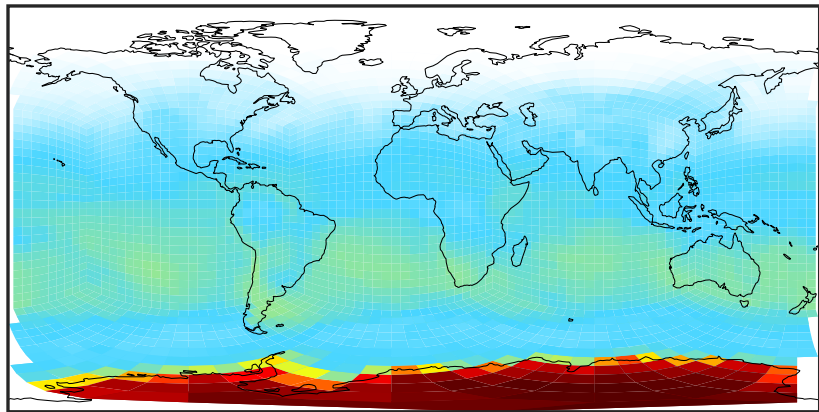
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

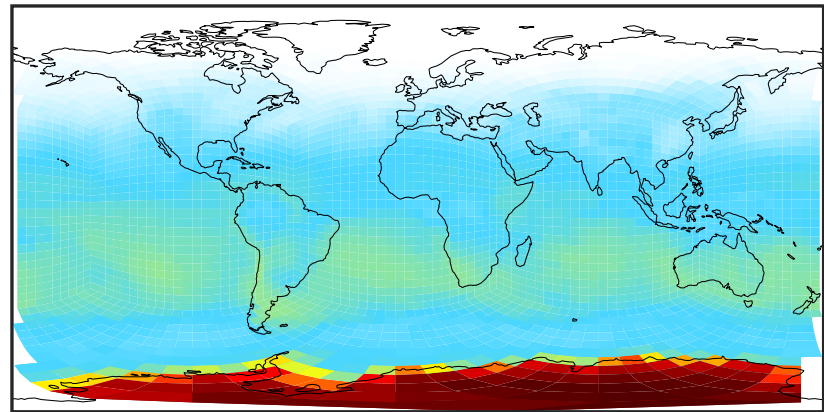
Jval_CIOO (Jan2019)

GCHP_14.0.0 (Ref)
c24



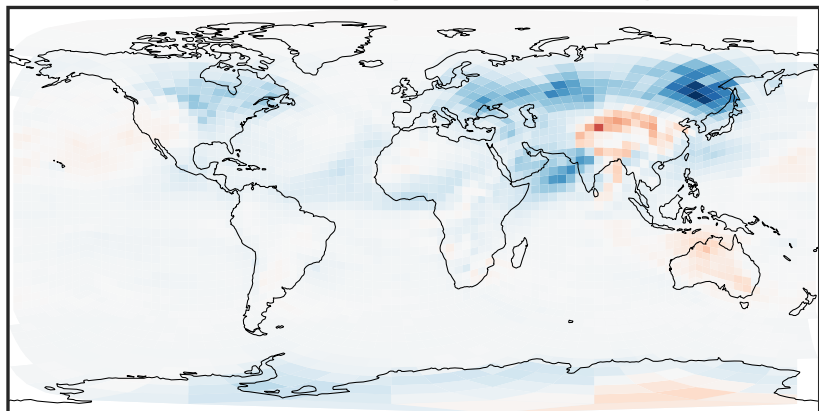
0.0000 0.1843 0.3686 0.5528 0.7371
s-1

GCHP_14.2.0 (Dev)
c24



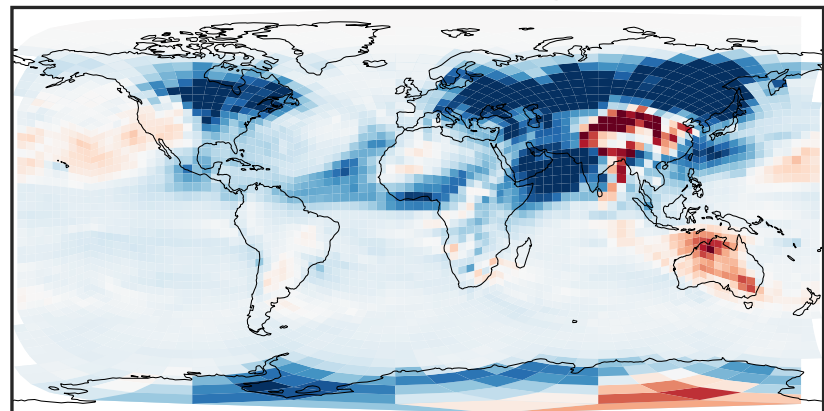
0.0000 0.1843 0.3686 0.5528 0.7371
s-1

Difference
Dev - Ref, Dynamic Range



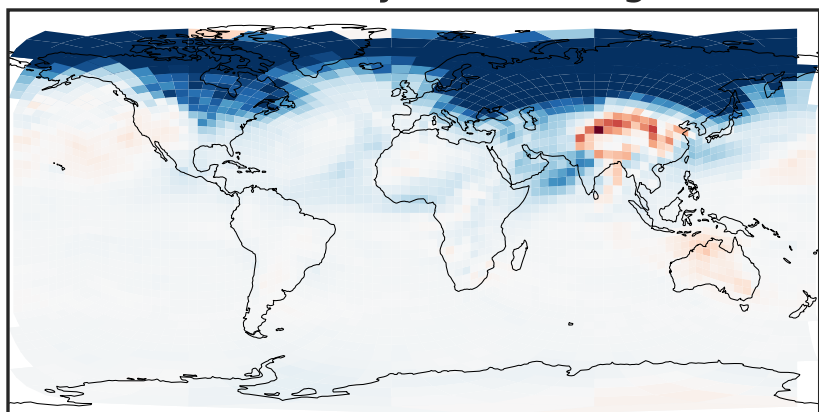
-0.001 0.000 0.001
s-1

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



-0.00025 0.00000 0.00025
s-1

Ratio
Dev/Ref, Dynamic Range



0.99058 0.99529 1.00000 1.00476 1.00951
unitless

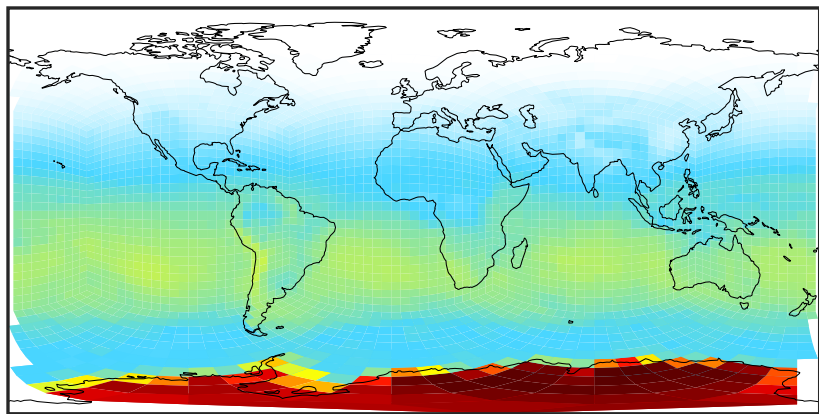
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

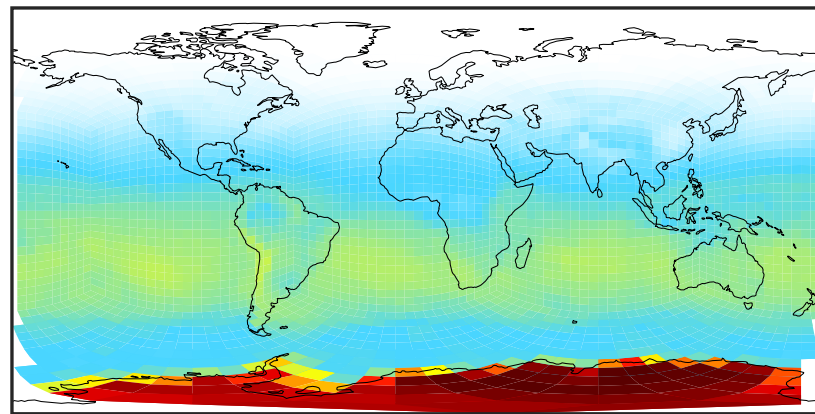
Jval_ETHLN (Jan2019)

GCHP_14.0.0 (Ref)
c24



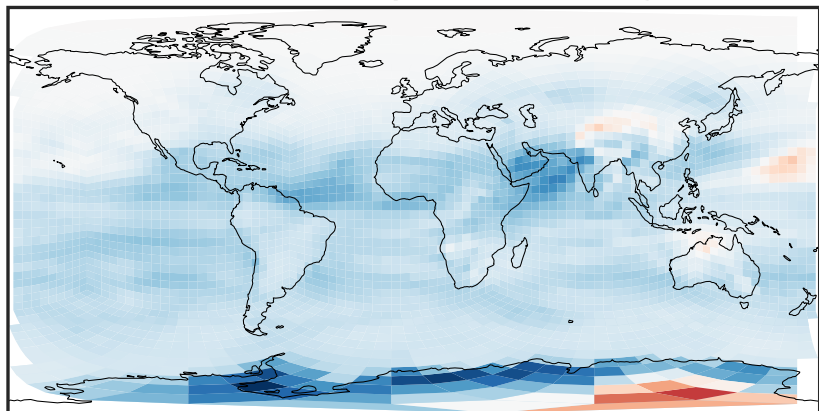
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



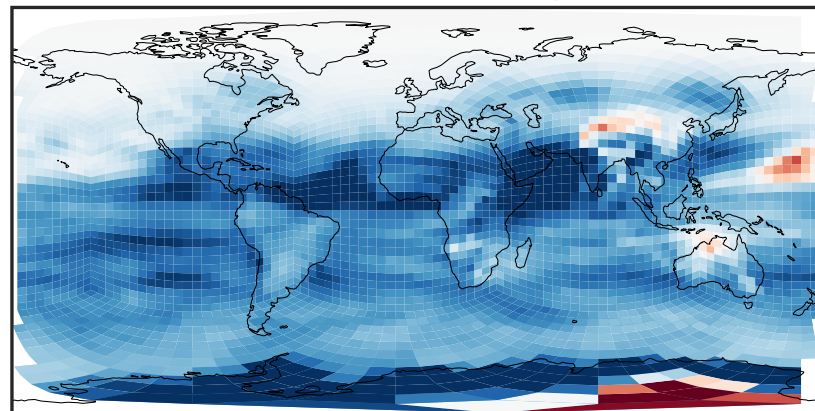
0.00000 0.00004 0.00008 0.00012
s-1

Difference
Dev - Ref, Dynamic Range



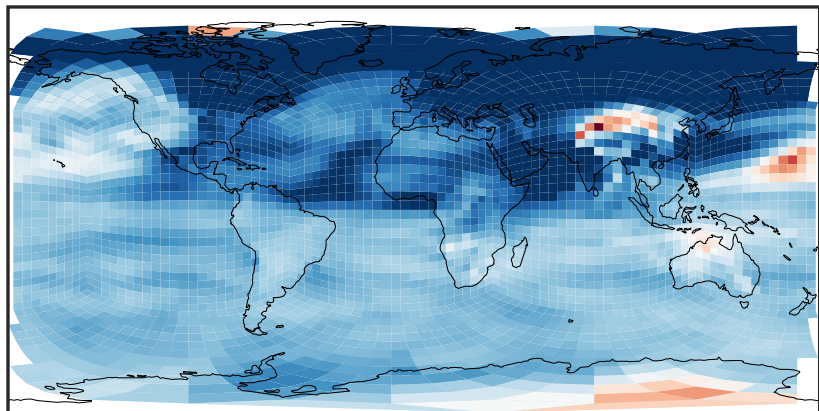
-4 0 4
s-1 1e-7

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



-1.5 0.0 1.5
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.99035 0.99517 1.00000 1.00487 1.00974
unitless

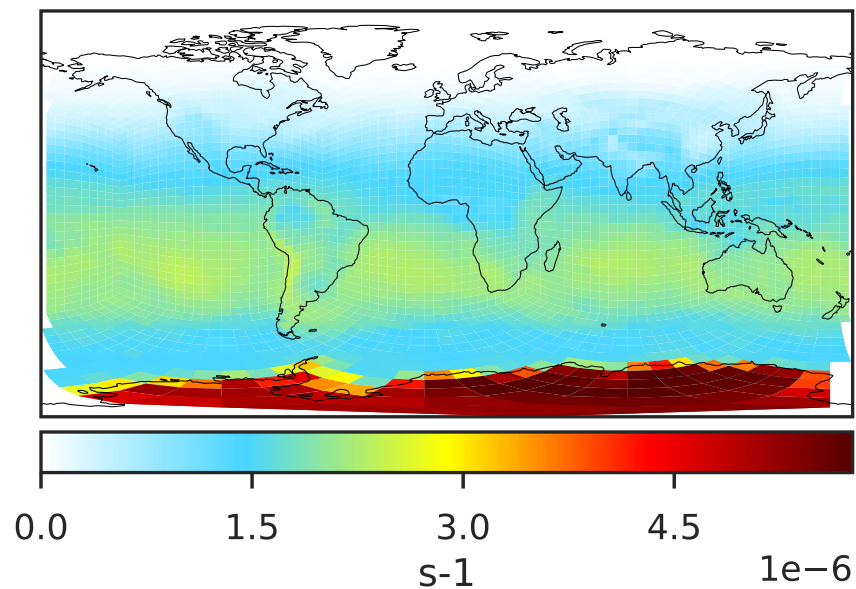
Ratio
Dev/Ref, Fixed Range



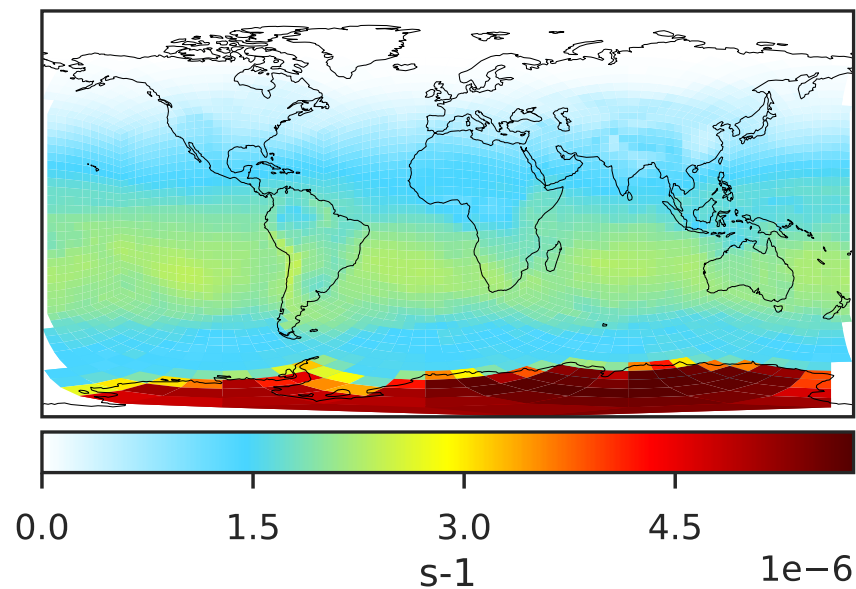
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ETHP (Jan2019)

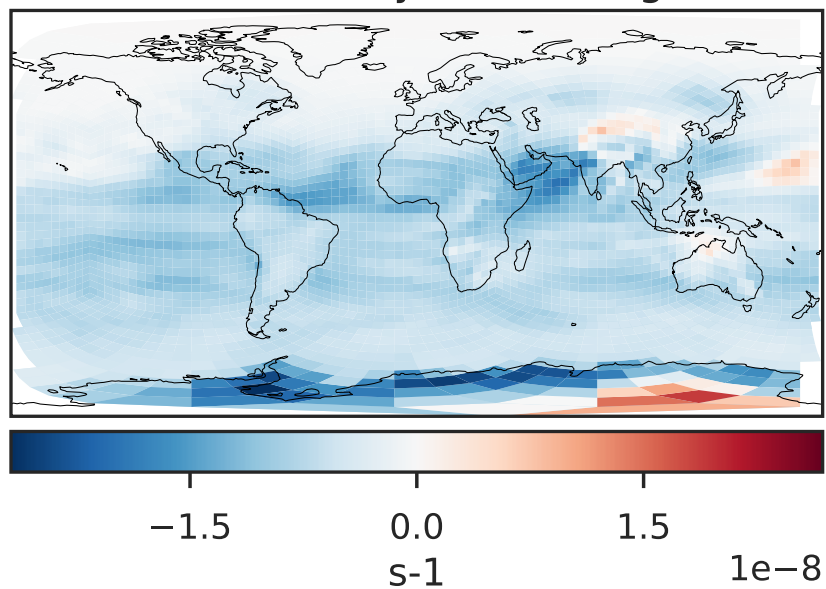
GCHP_14.0.0 (Ref)
c24



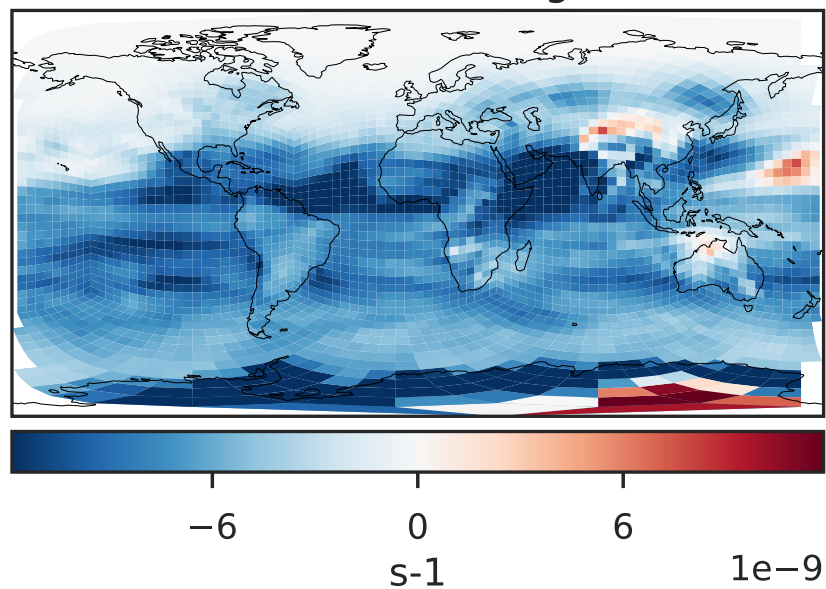
GCHP_14.2.0 (Dev)
c24



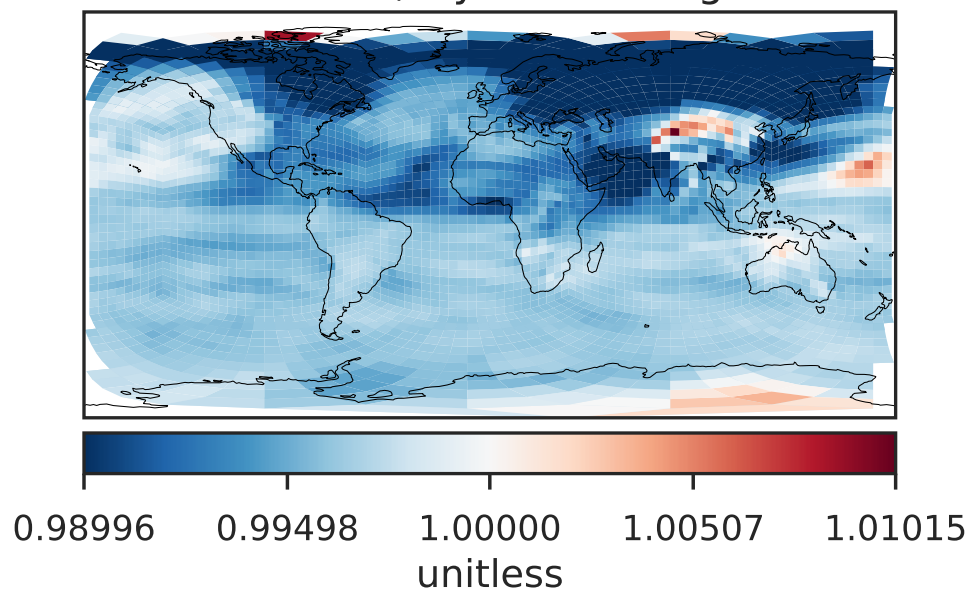
Difference
Dev - Ref, Dynamic Range



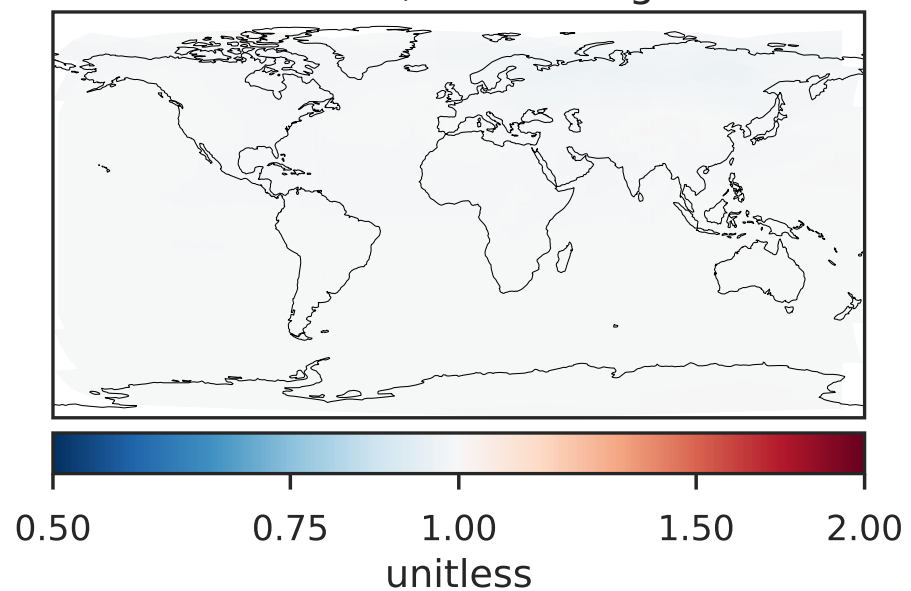
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

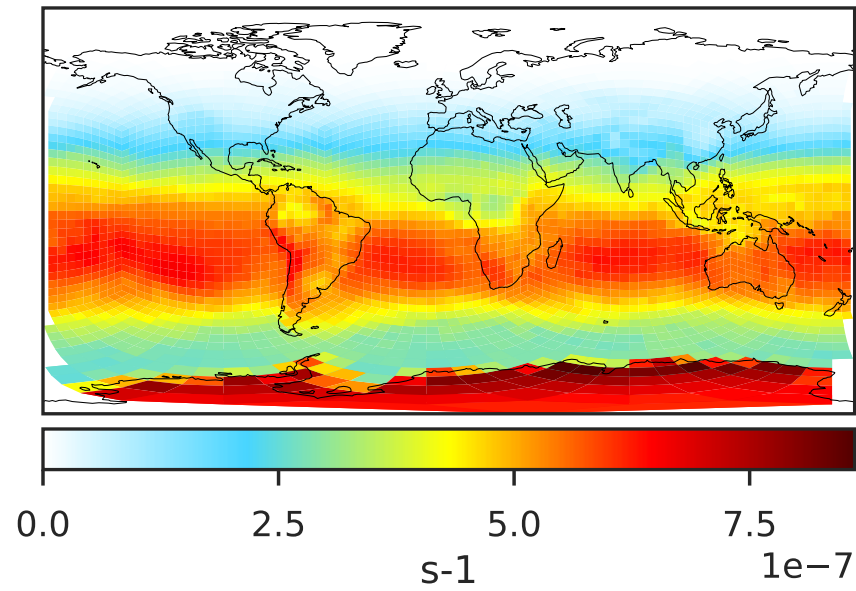


Ratio
Dev/Ref, Fixed Range

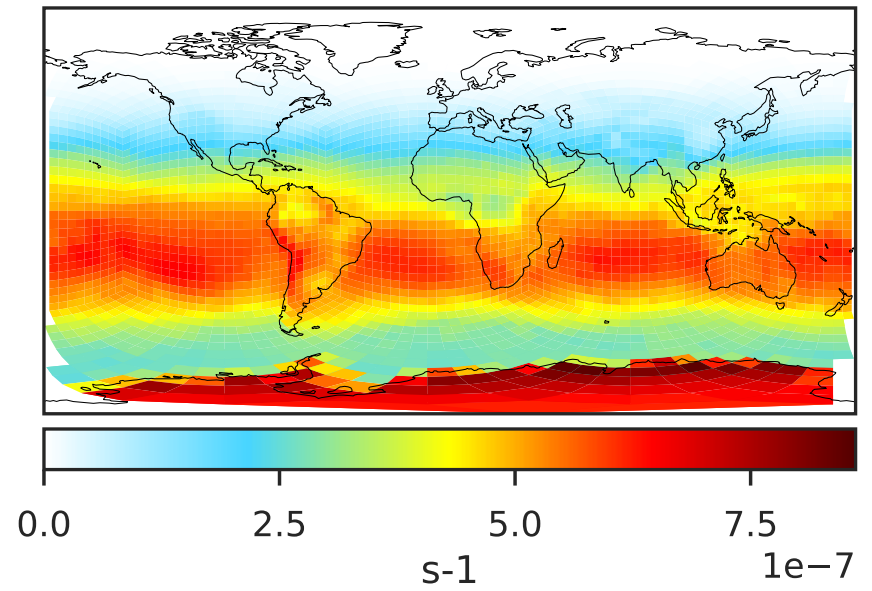


Jval_ETNO3 (Jan2019)

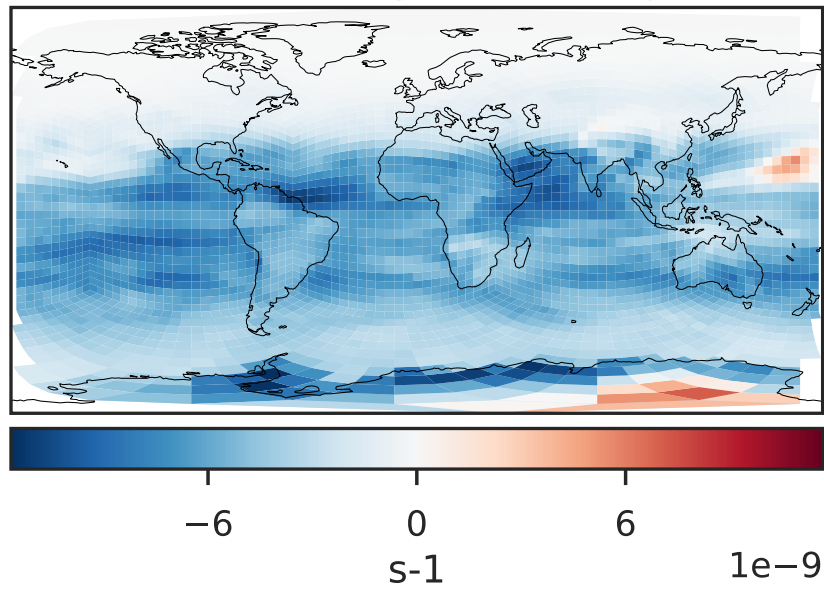
GCHP_14.0.0 (Ref)
c24



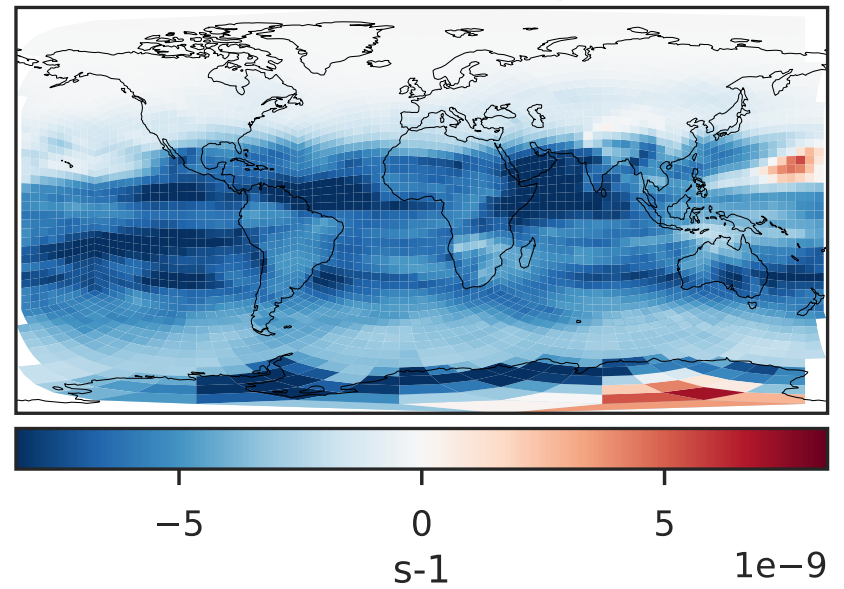
GCHP_14.2.0 (Dev)
c24



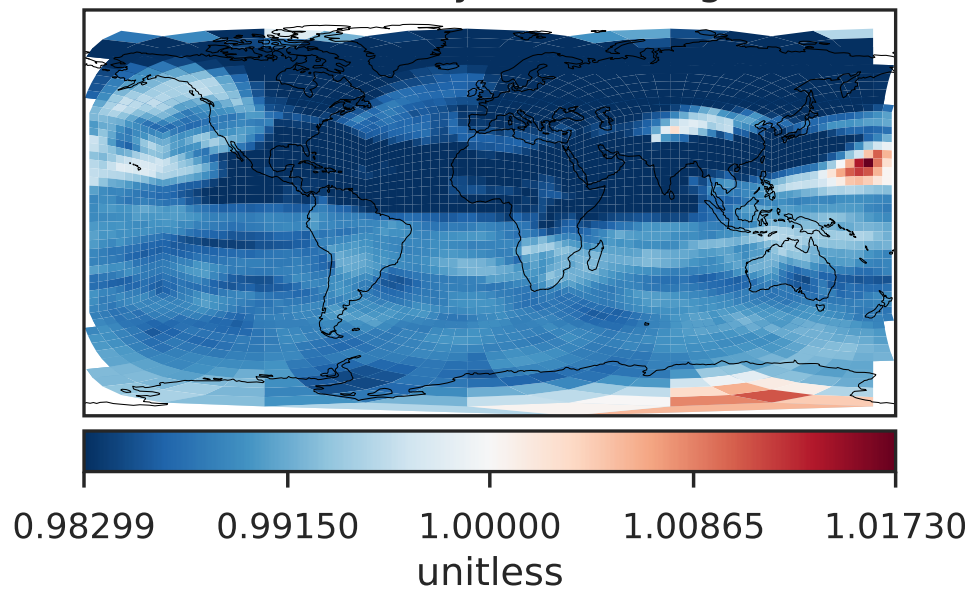
Difference
Dev - Ref, Dynamic Range



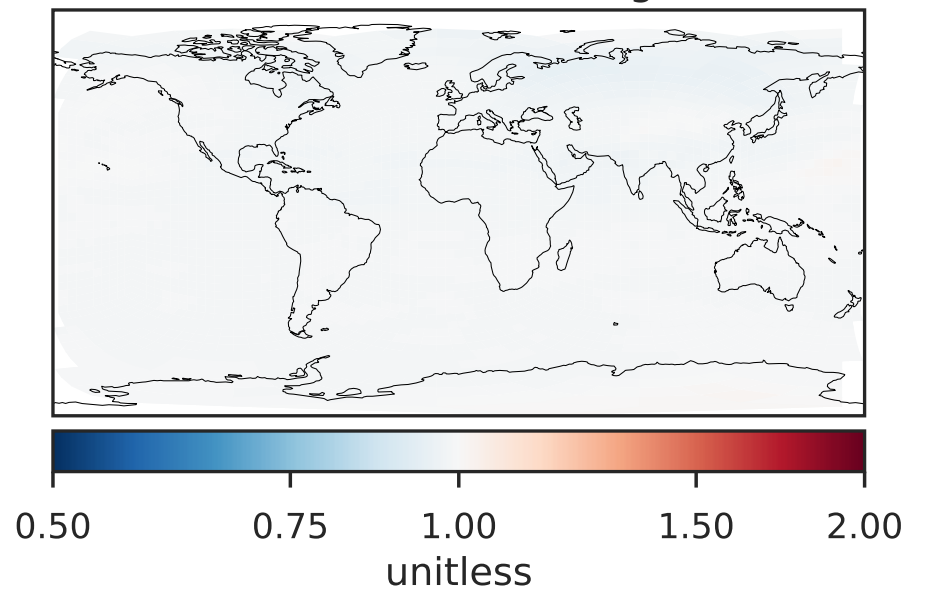
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

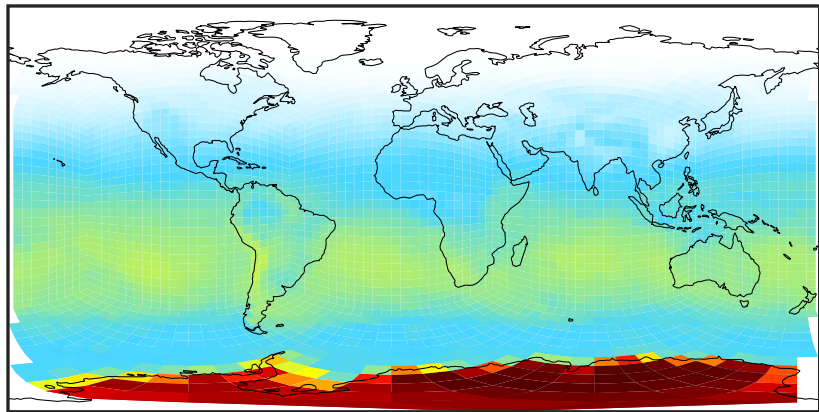


Ratio
Dev/Ref, Fixed Range



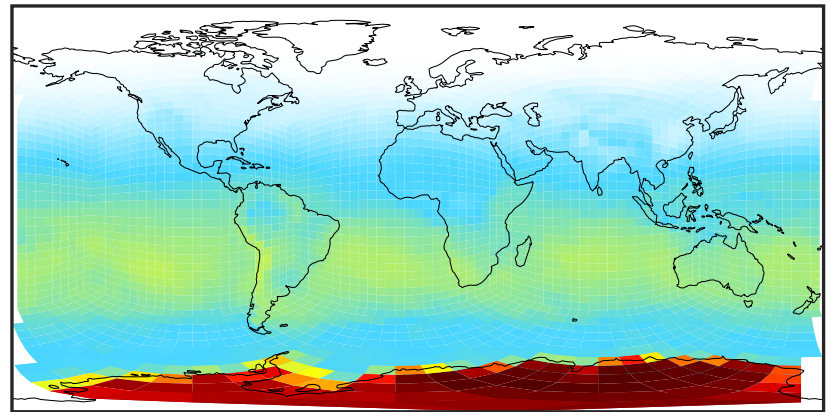
Jval_ETP (Jan2019)

GCHP_14.0.0 (Ref)
c24



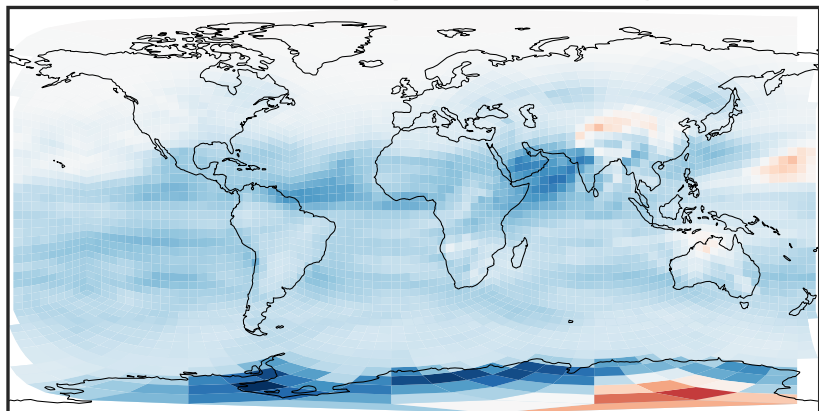
0.0 0.8 1.6 2.4
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



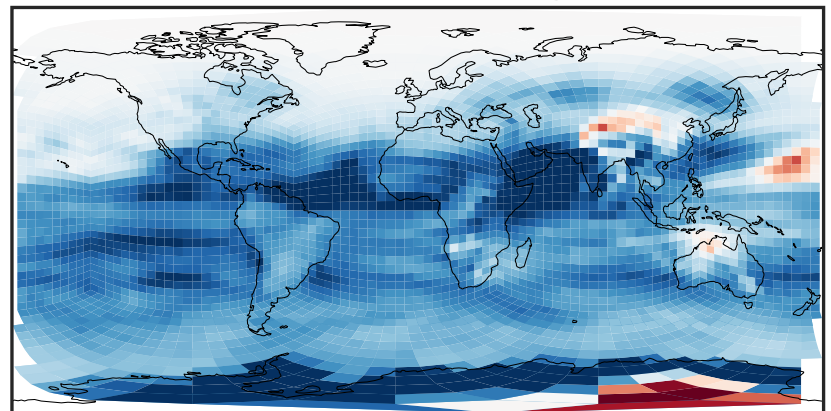
0.0 0.8 1.6 2.4
s-1 $1e-6$

Difference
Dev - Ref, Dynamic Range



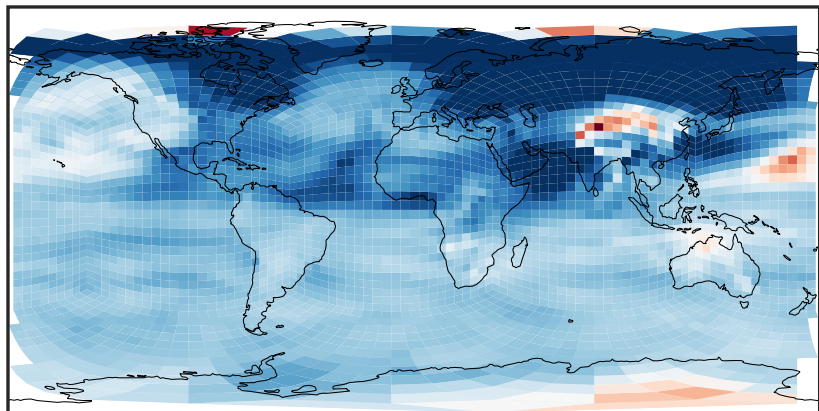
-8 0 8
s-1 $1e-9$

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



-3 0 3
s-1 $1e-9$

Ratio
Dev/Ref, Dynamic Range



0.98996 0.99498 1.00000 1.00507 1.01015
unitless

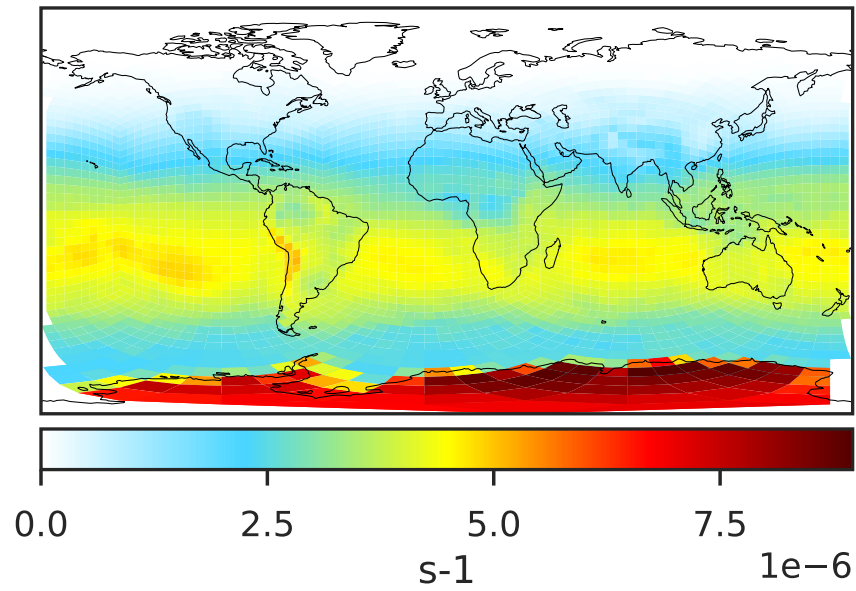
Ratio
Dev/Ref, Fixed Range



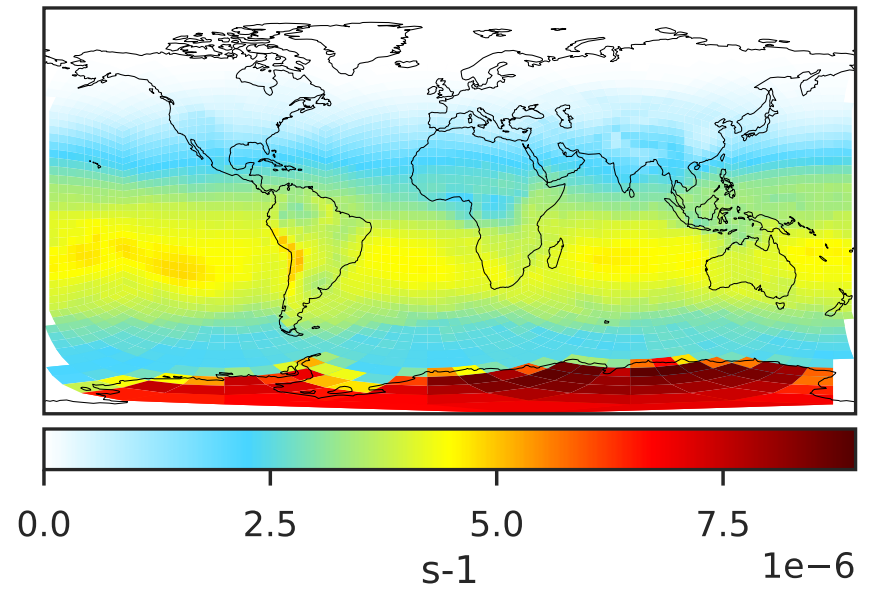
0.50 0.75 1.00 1.50 2.00
unitless

Jval_GLYC (Jan2019)

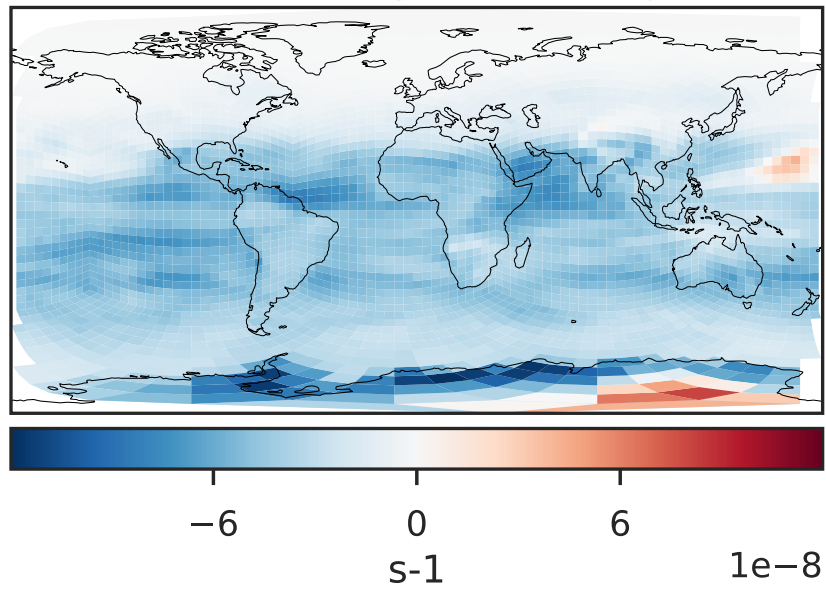
GCHP_14.0.0 (Ref)
c24



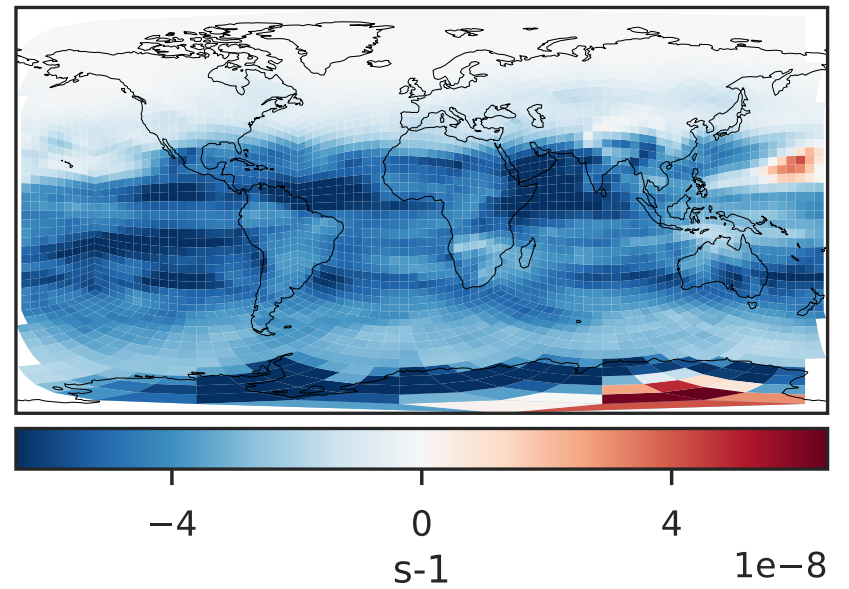
GCHP_14.2.0 (Dev)
c24



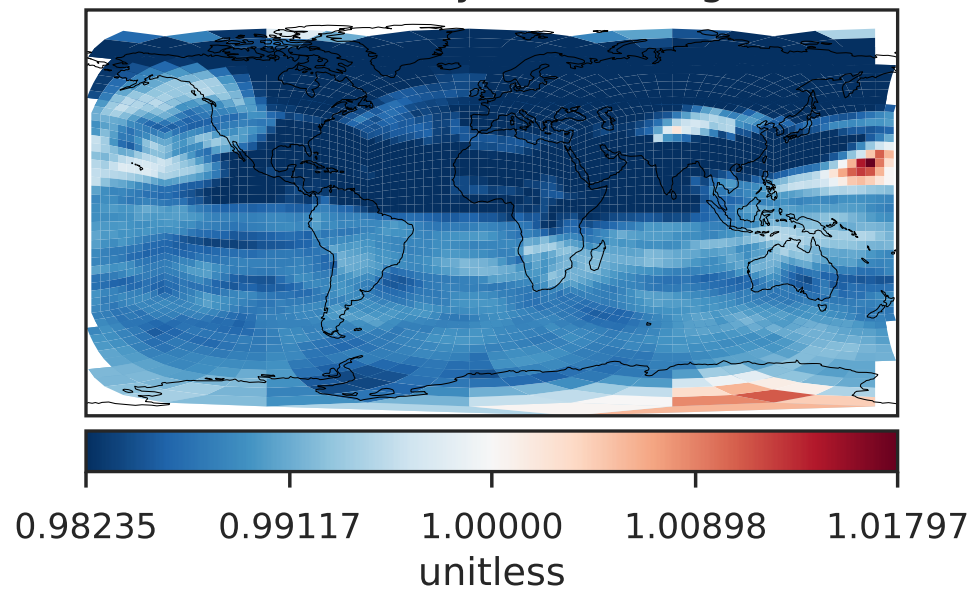
Difference
Dev - Ref, Dynamic Range



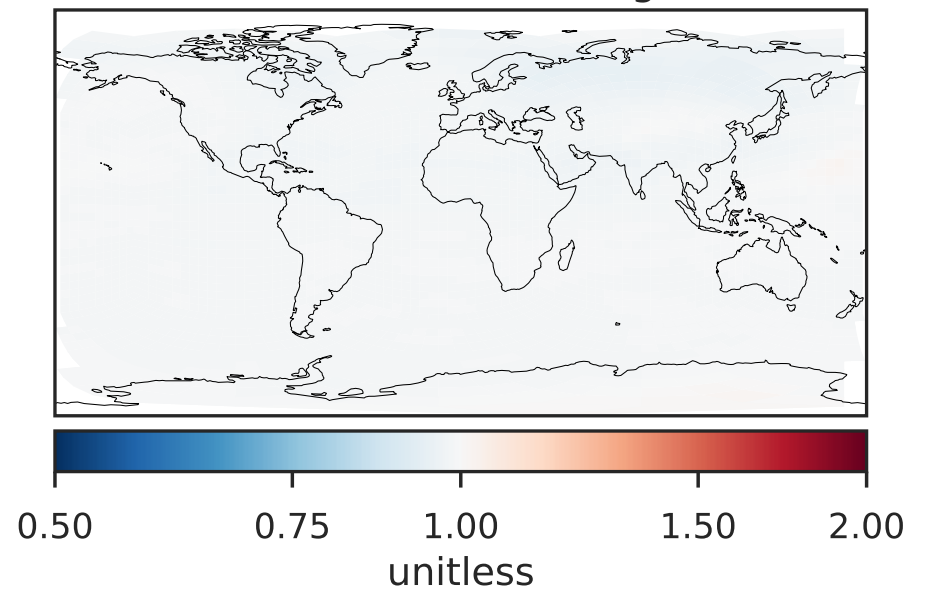
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

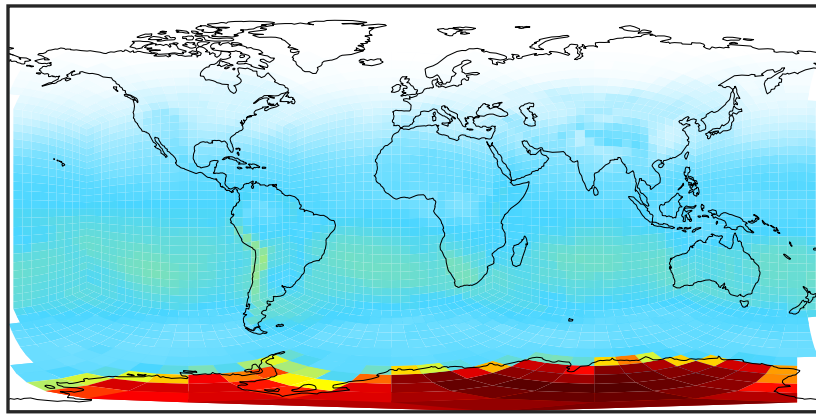


Ratio
Dev/Ref, Fixed Range



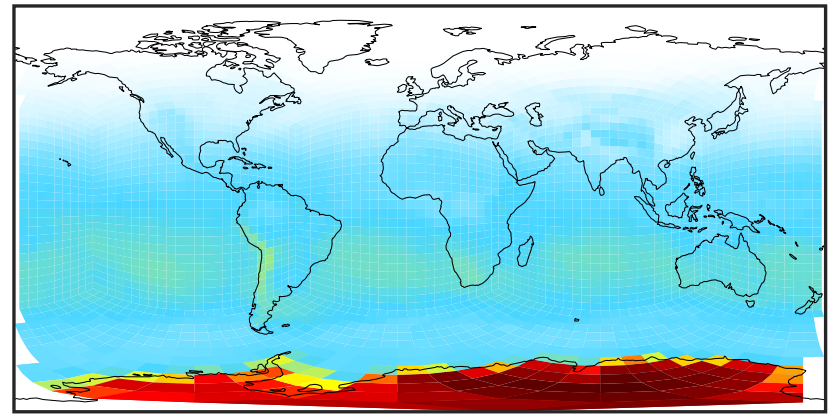
Jval_GLYX (Jan2019)

GCHP_14.0.0 (Ref)
c24



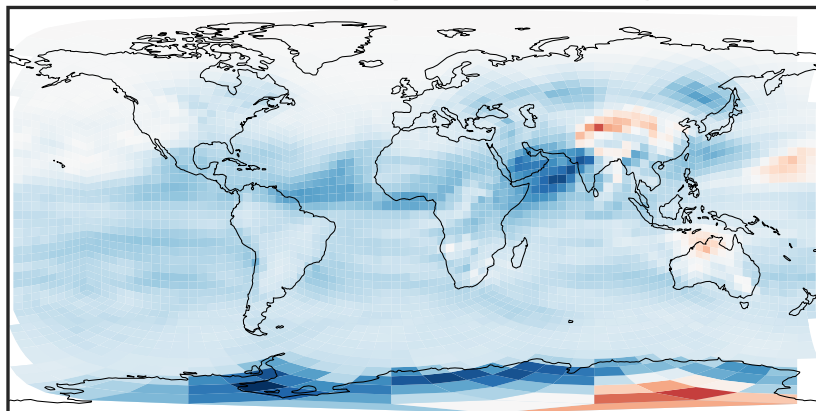
0.00000 0.00005 0.00010 0.00015
s-1

GCHP_14.2.0 (Dev)
c24



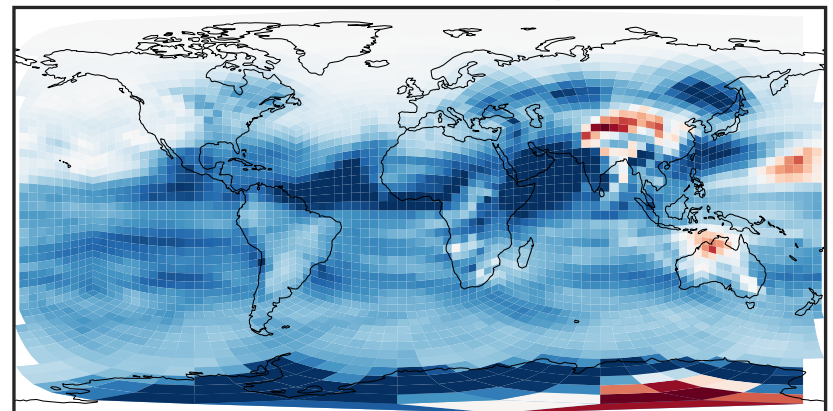
0.00000 0.00005 0.00010 0.00015
s-1

Difference
Dev - Ref, Dynamic Range



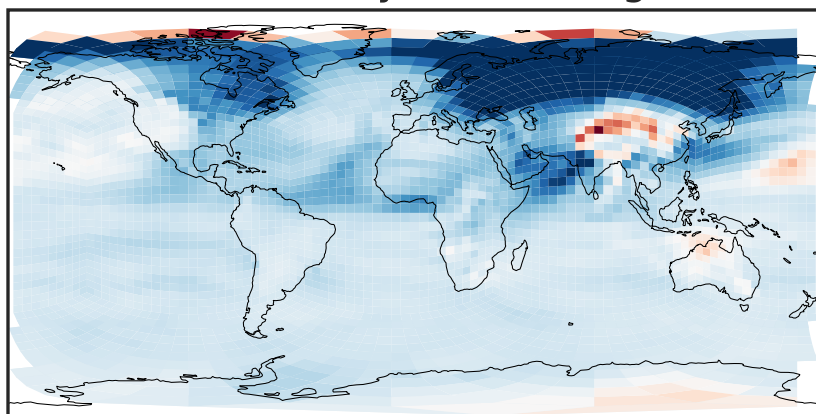
-2 0 2
s-1 1e-7

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



-1 0 1
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98896 0.99448 1.00000 1.00558 1.01116
unitless

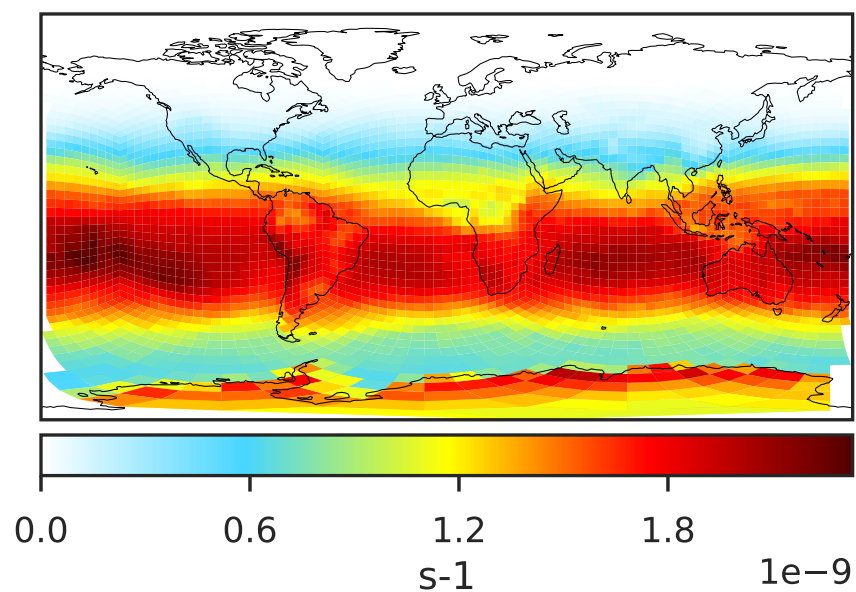
Ratio
Dev/Ref, Fixed Range



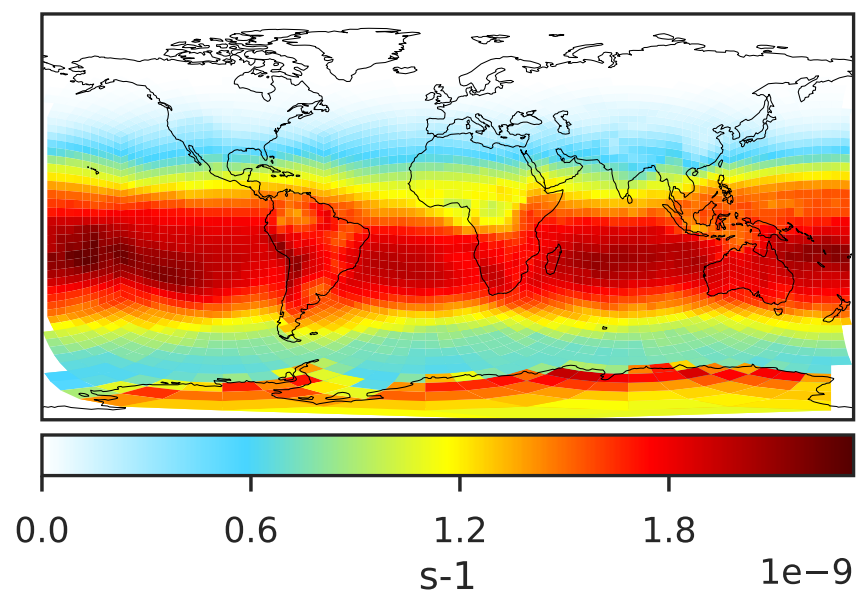
0.50 0.75 1.00 1.50 2.00
unitless

Jval_H1211 (Jan2019)

GCHP_14.0.0 (Ref)
c24



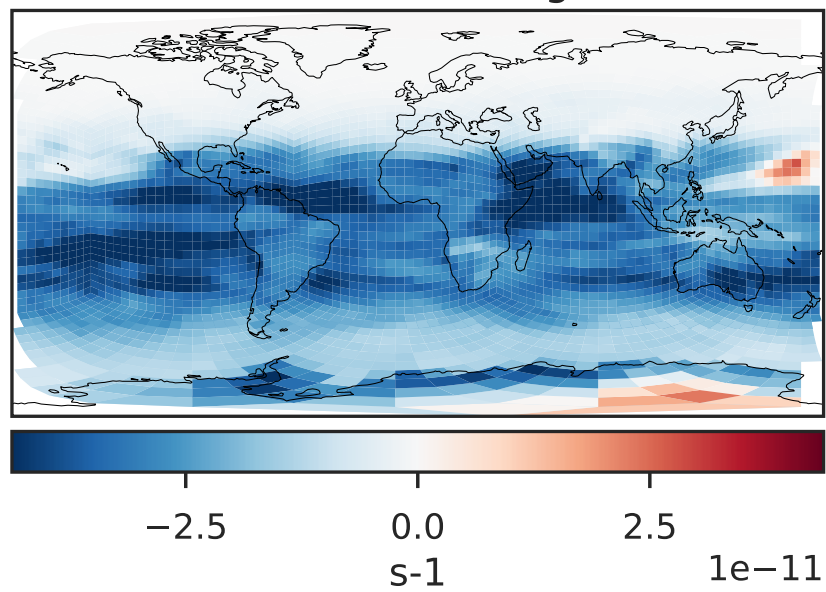
GCHP_14.2.0 (Dev)
c24



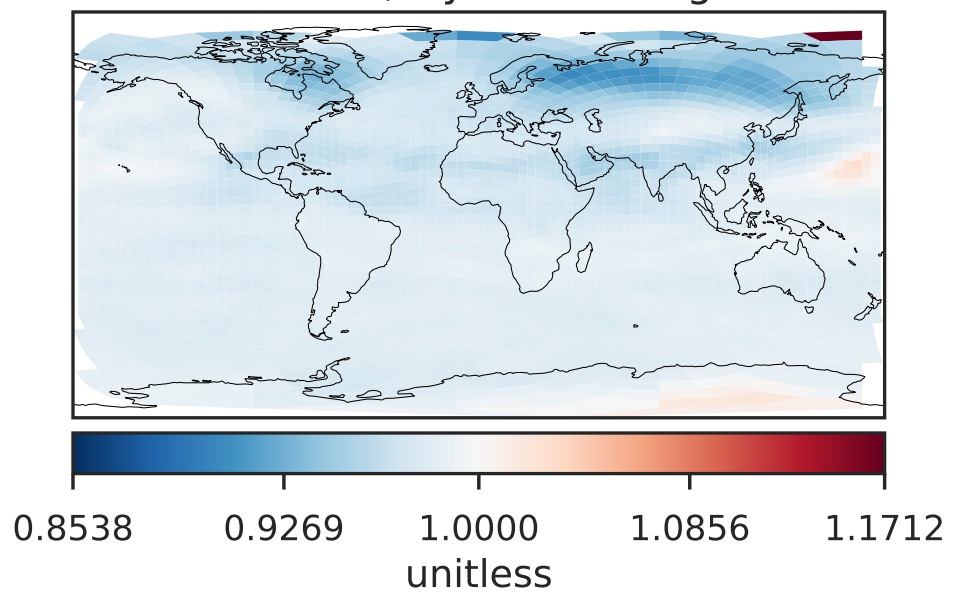
Difference
Dev - Ref, Dynamic Range



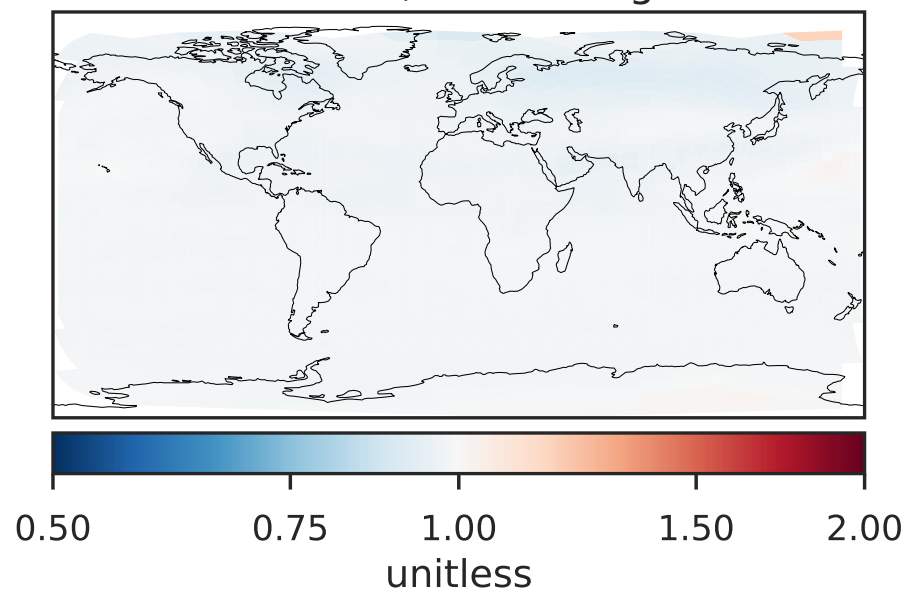
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

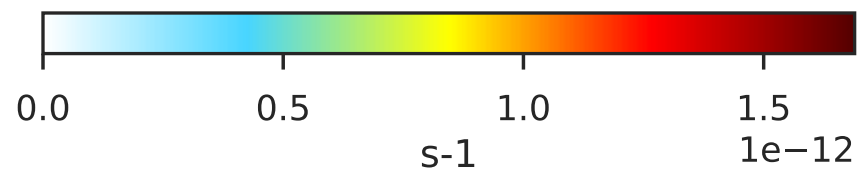
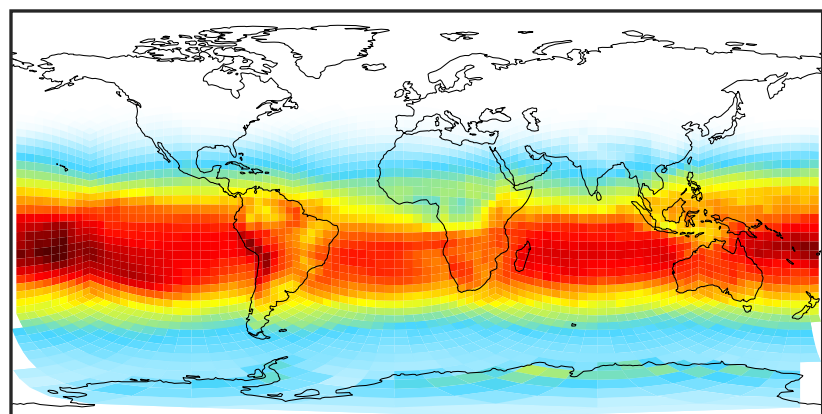


Ratio
Dev/Ref, Fixed Range

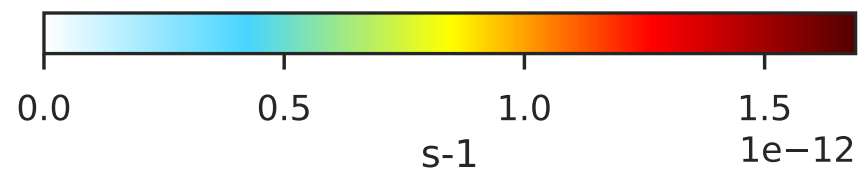
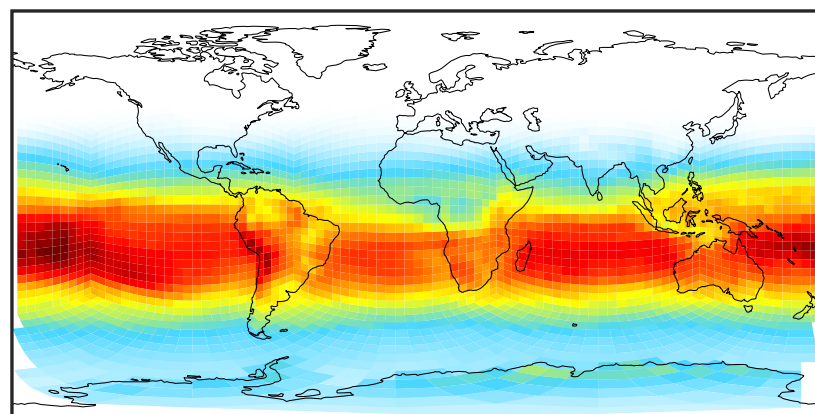


Jval_H1301 (Jan2019)

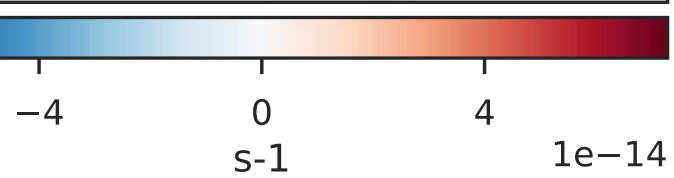
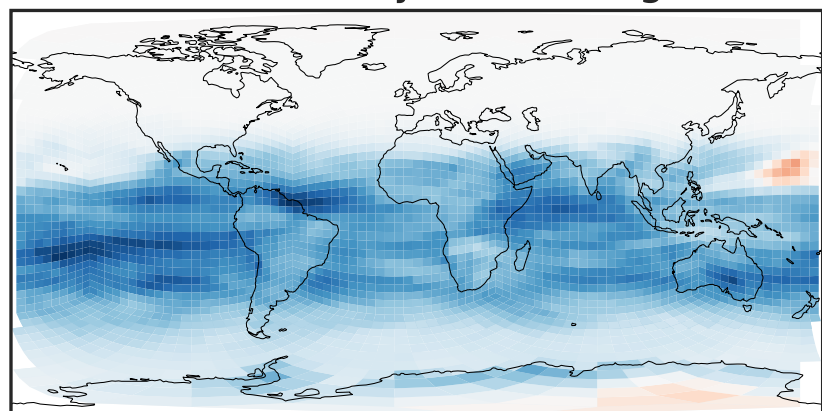
GCHP_14.0.0 (Ref)
c24



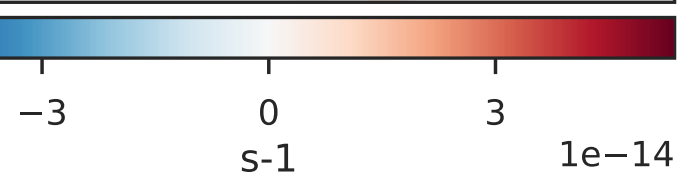
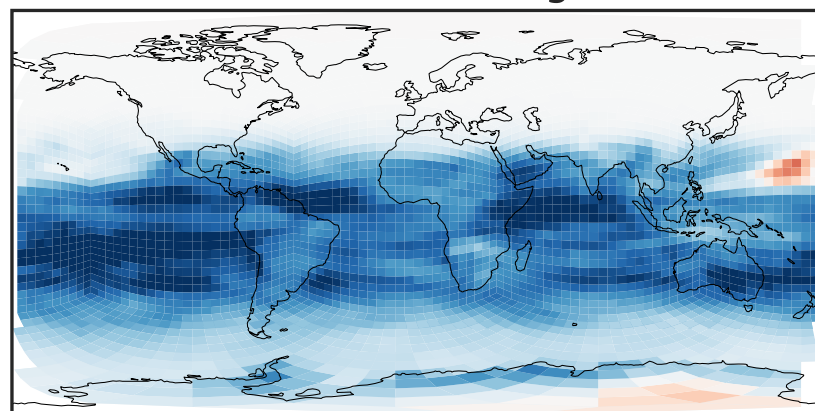
GCHP_14.2.0 (Dev)
c24



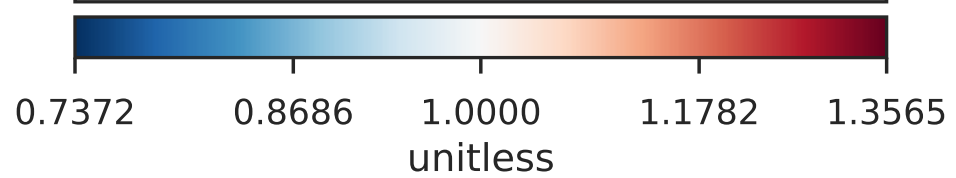
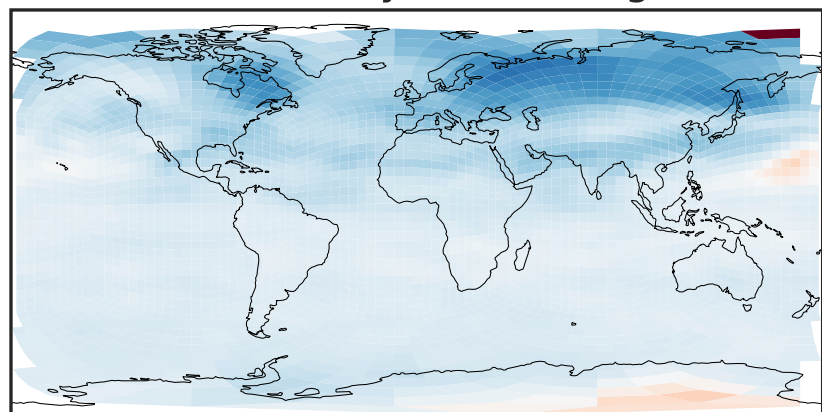
Difference
Dev - Ref, Dynamic Range



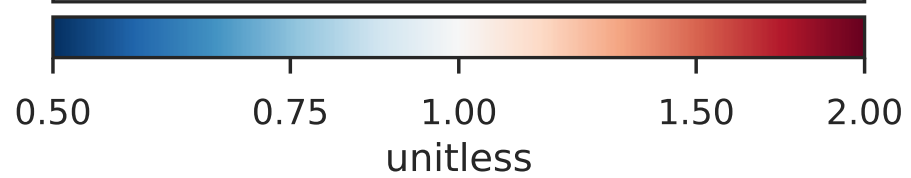
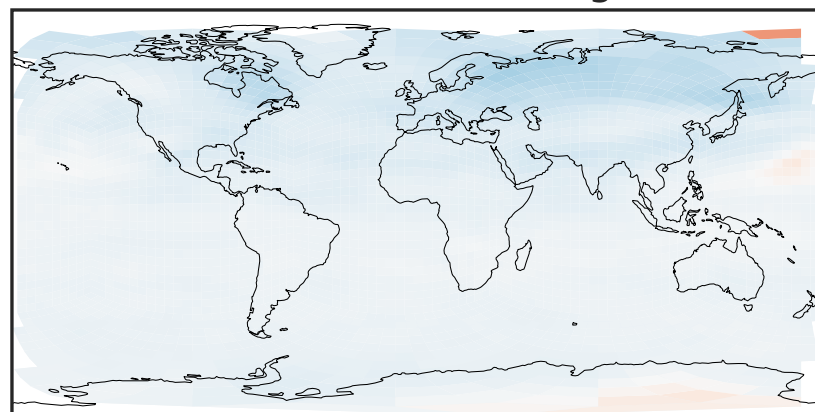
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

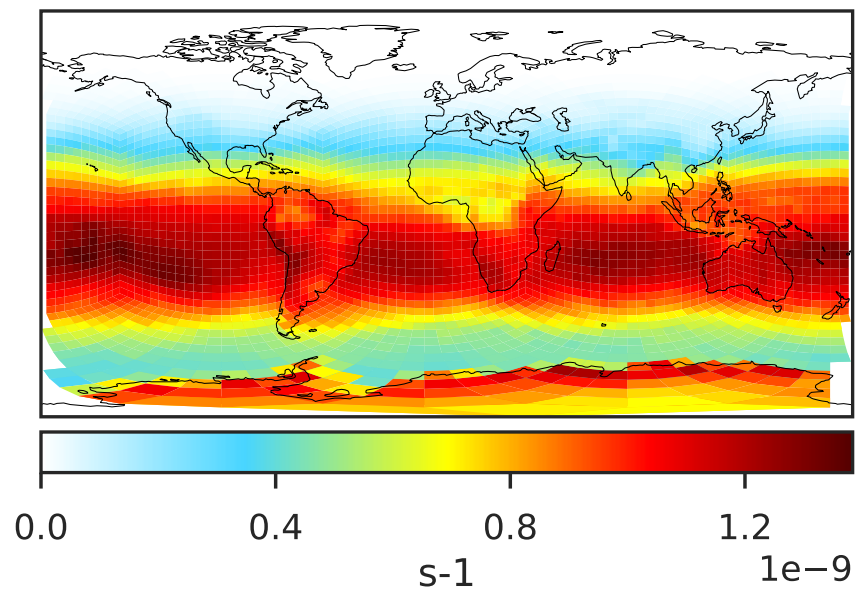


Ratio
Dev/Ref, Fixed Range

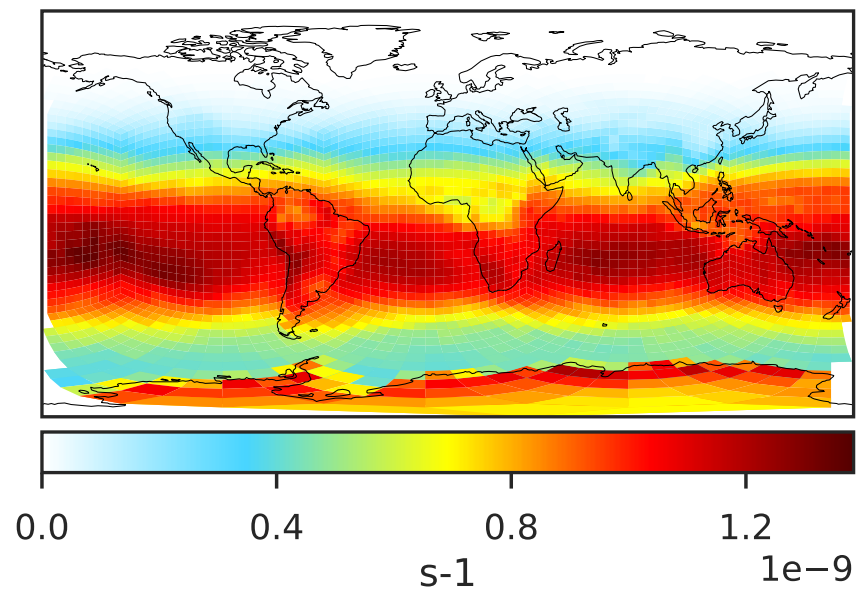


Jval_H2402 (Jan2019)

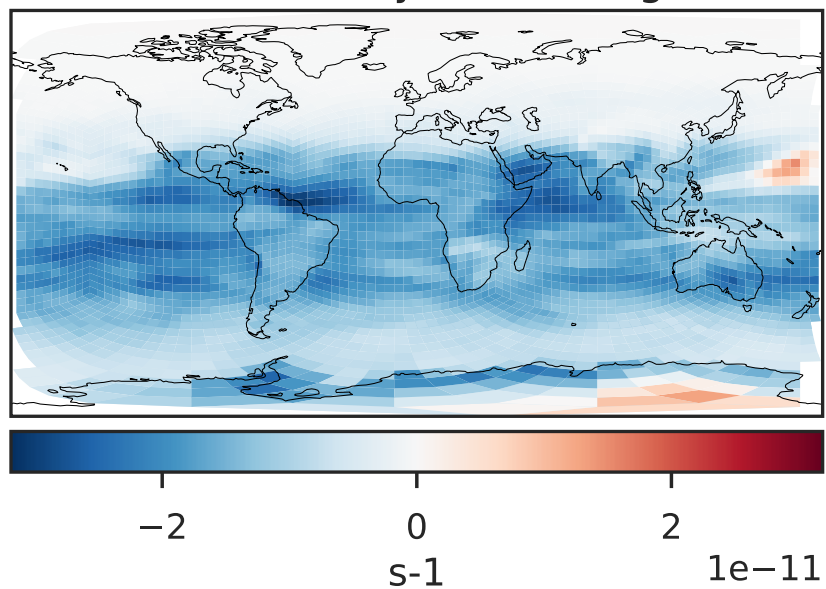
GCHP_14.0.0 (Ref)
c24



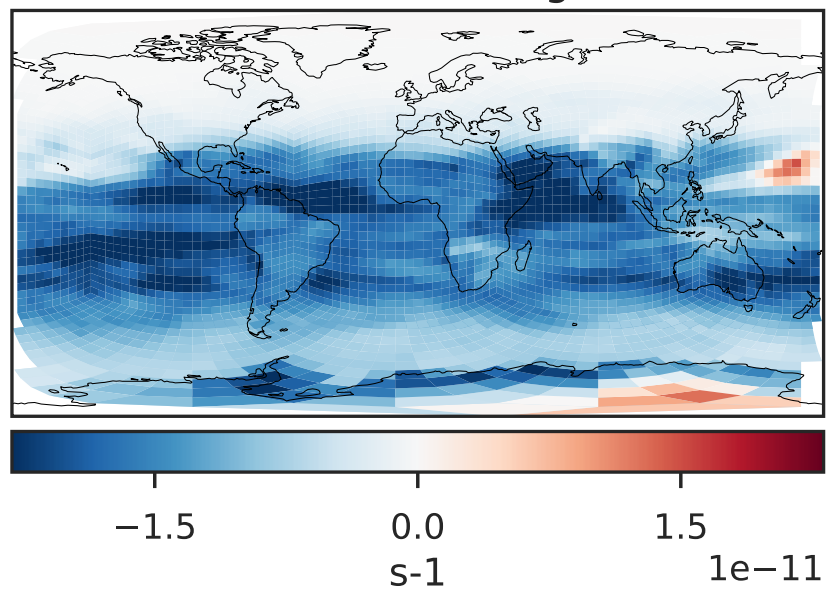
GCHP_14.2.0 (Dev)
c24



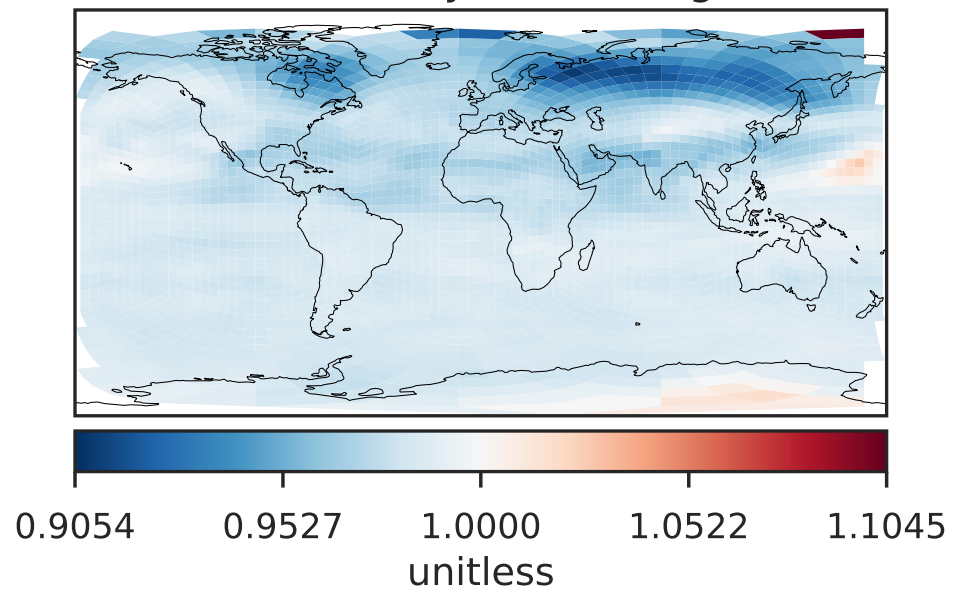
Difference
Dev - Ref, Dynamic Range



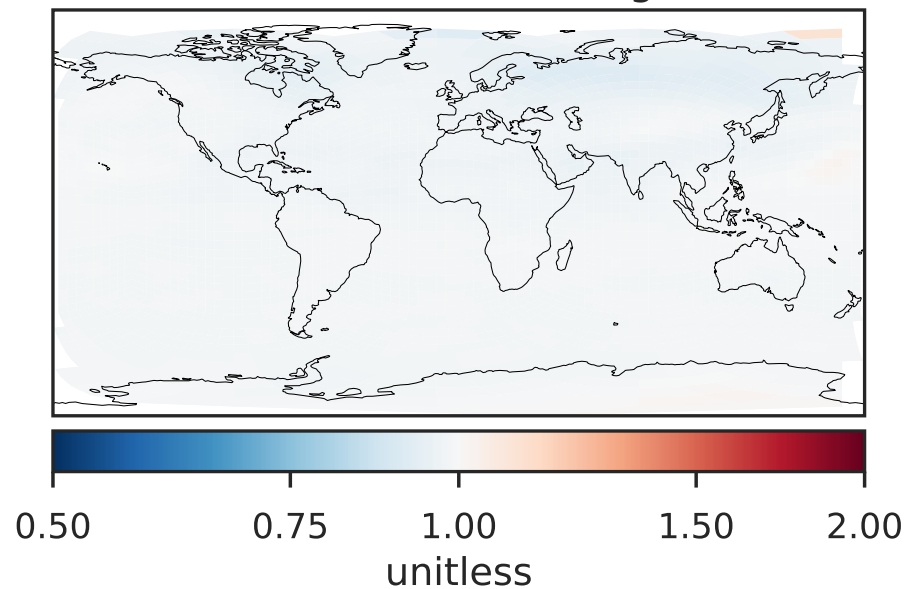
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

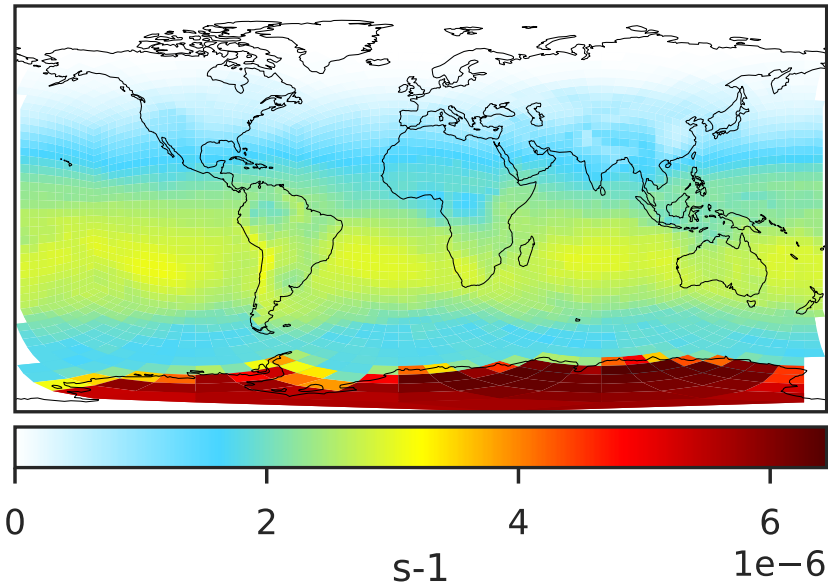


Ratio
Dev/Ref, Fixed Range

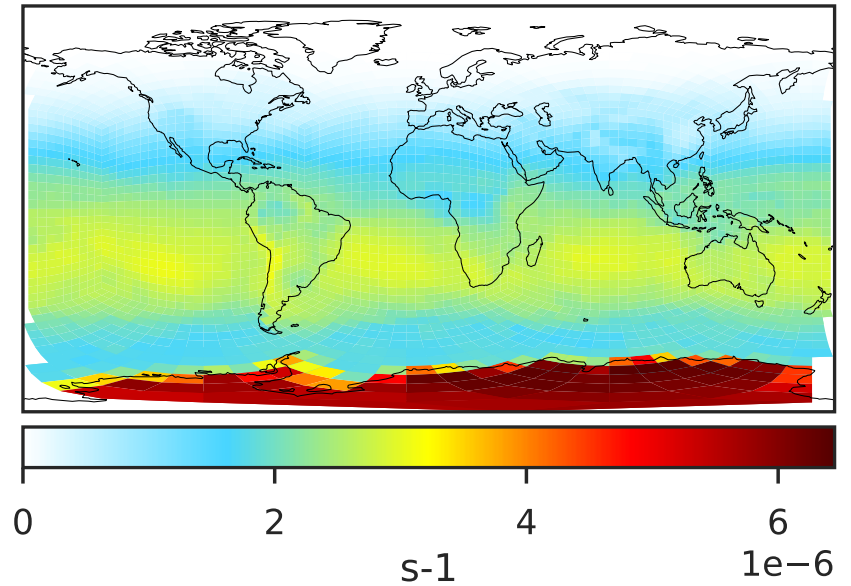


Jval_H2O2 (Jan2019)

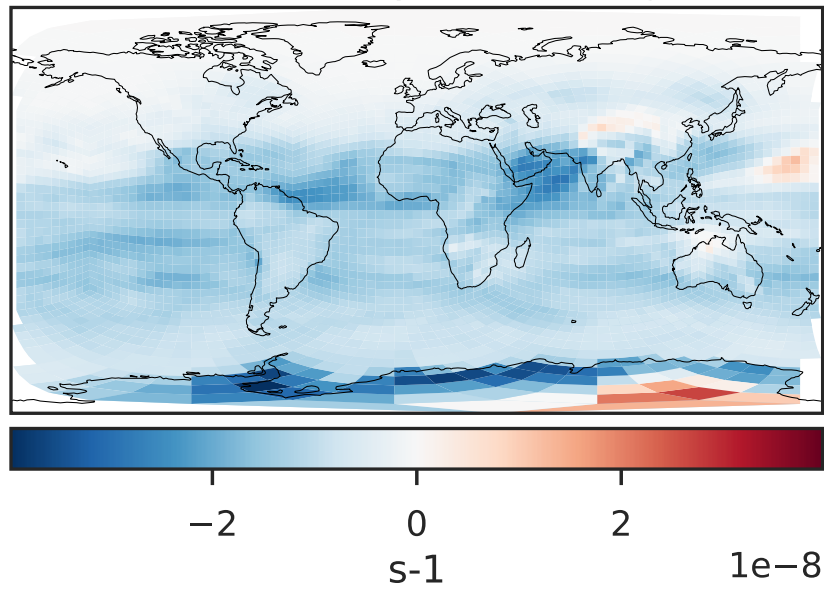
GCHP_14.0.0 (Ref)
c24



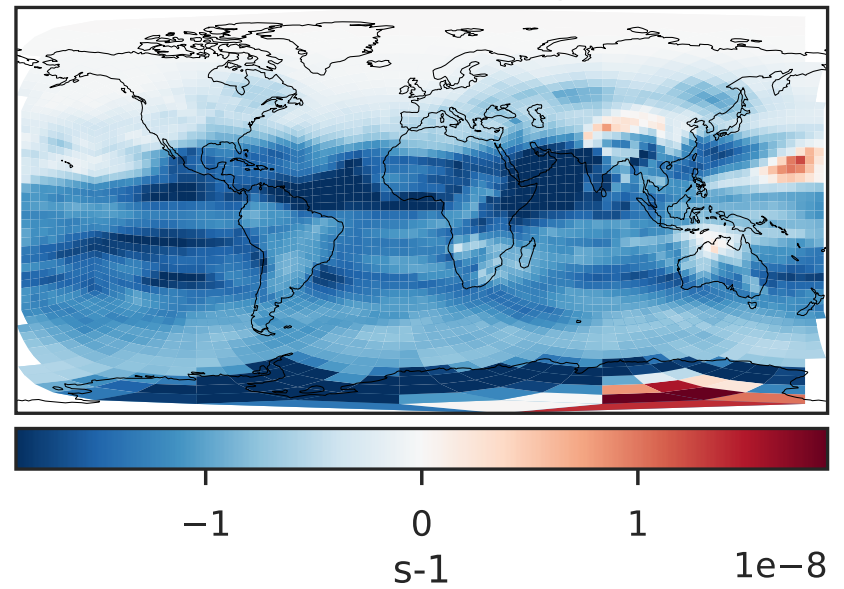
GCHP_14.2.0 (Dev)
c24



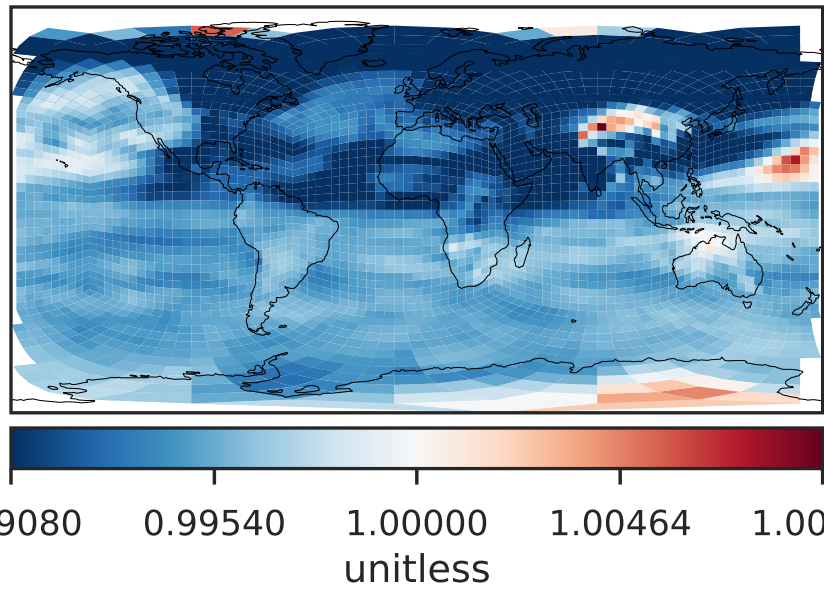
Difference
Dev - Ref, Dynamic Range



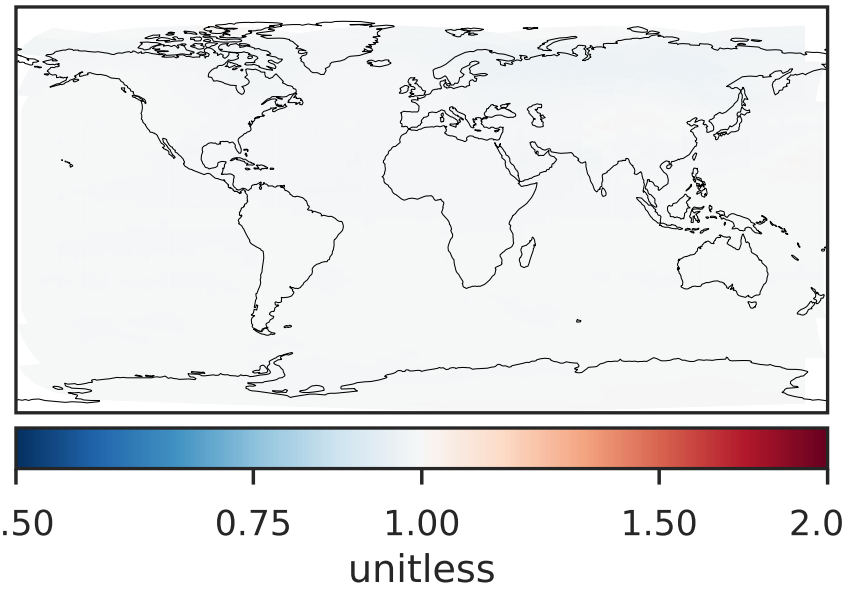
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

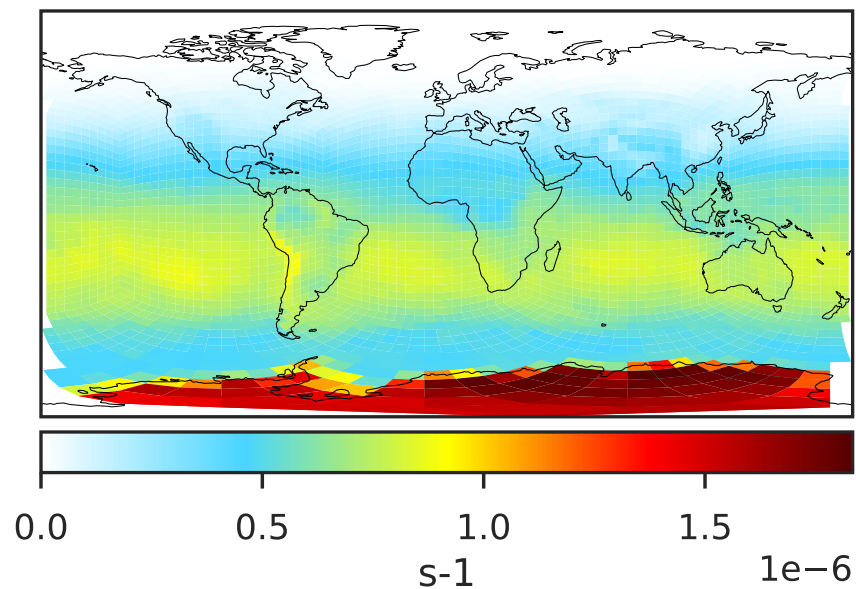


Ratio
Dev/Ref, Fixed Range

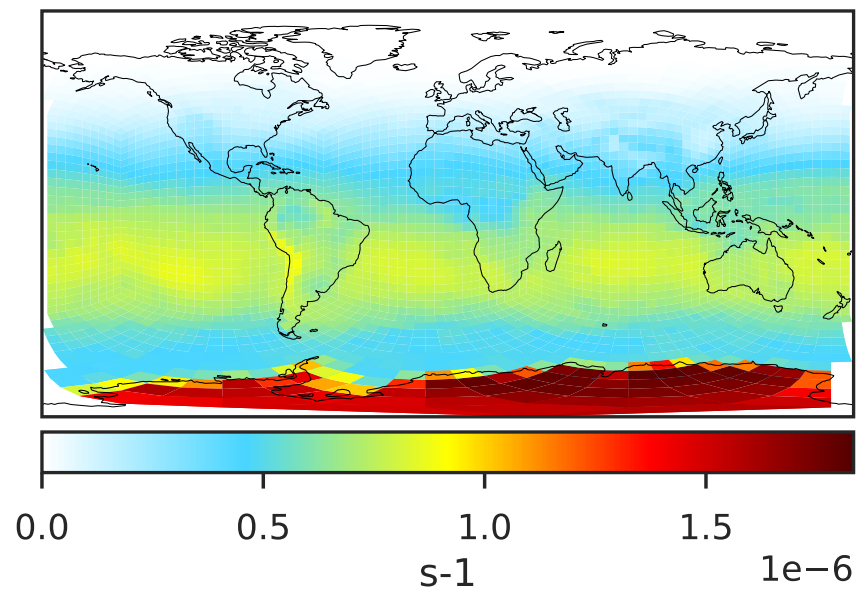


Jval_HAC (Jan2019)

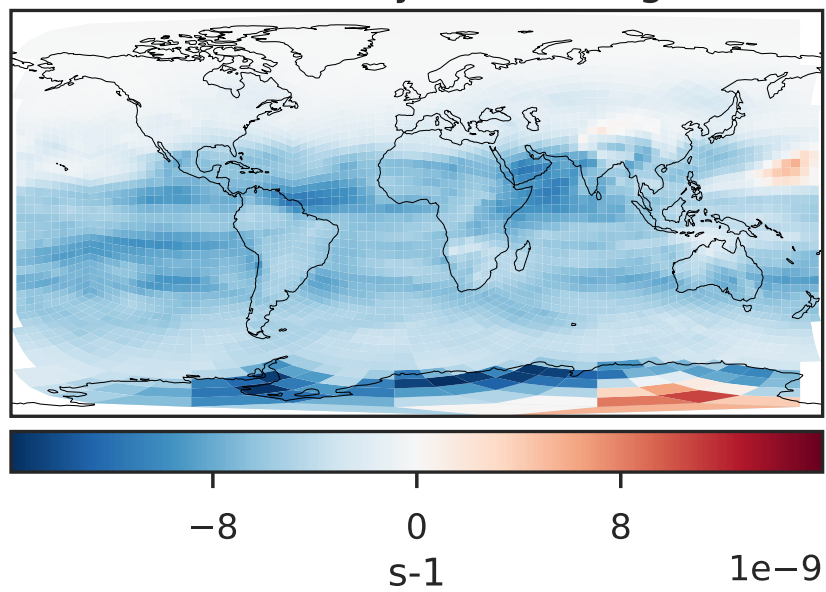
GCHP_14.0.0 (Ref)
c24



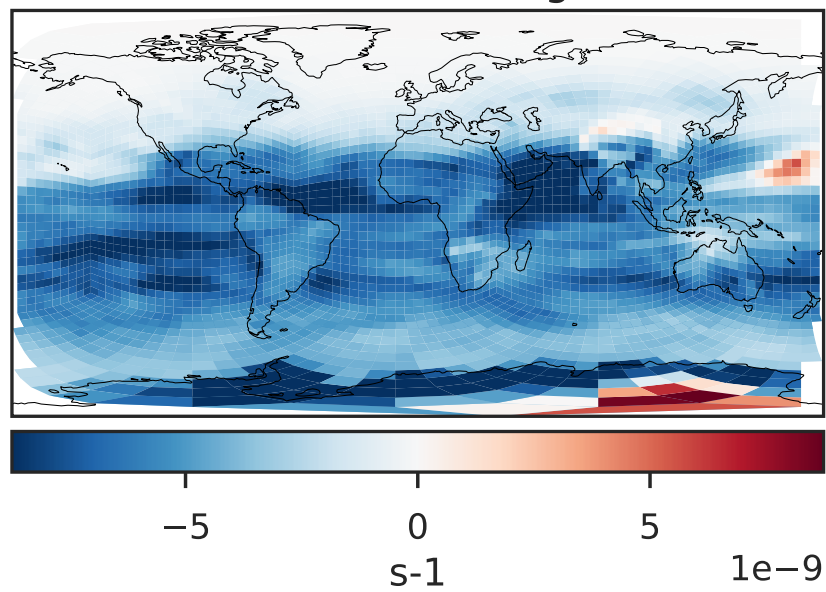
GCHP_14.2.0 (Dev)
c24



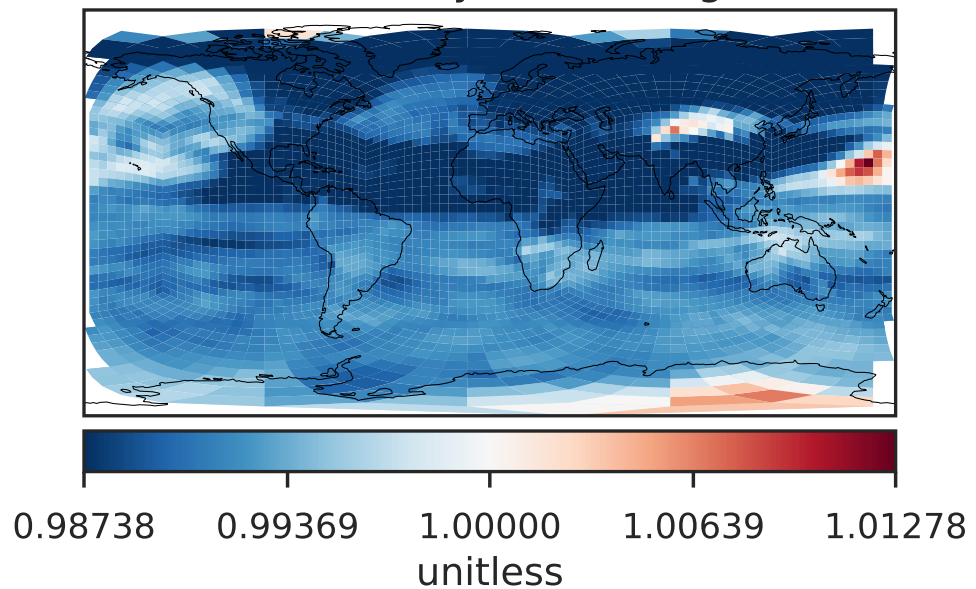
Difference
Dev - Ref, Dynamic Range



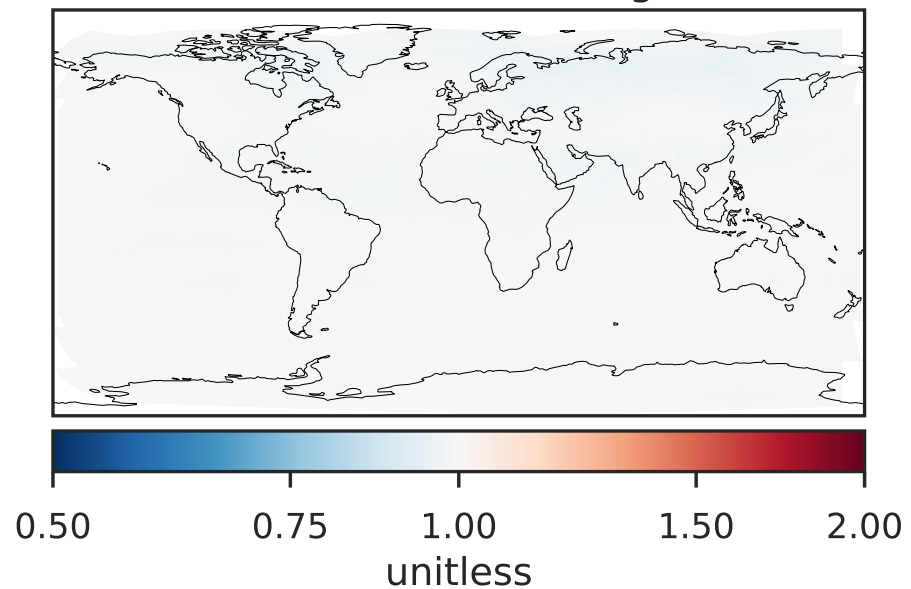
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

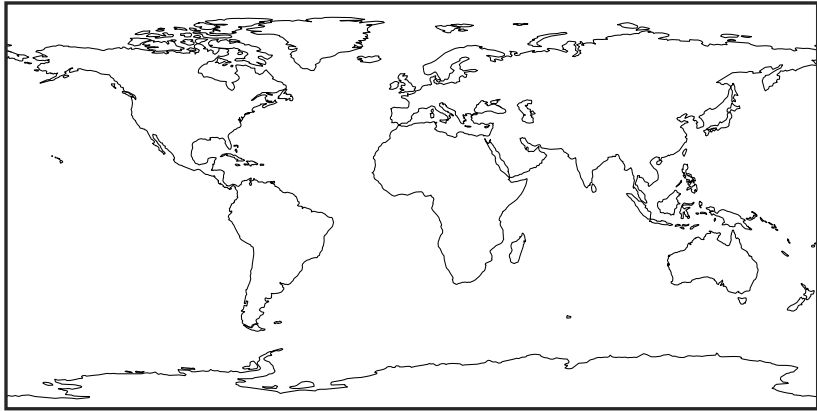


Ratio
Dev/Ref, Fixed Range



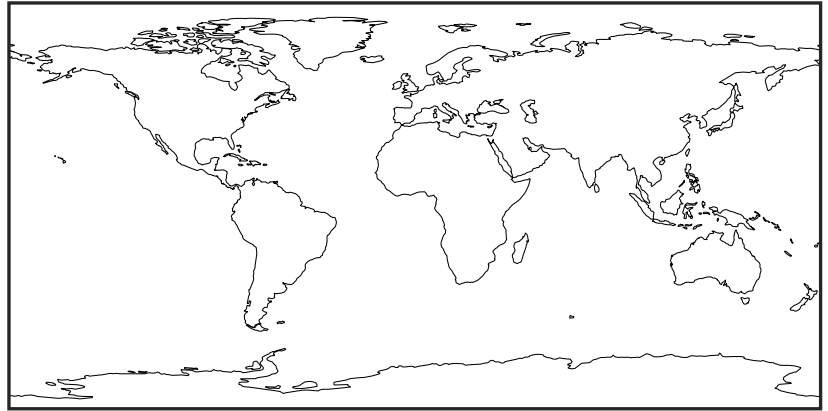
Jval_HC5A (Jan2019)

GCHP_14.0.0 (Ref)
c24



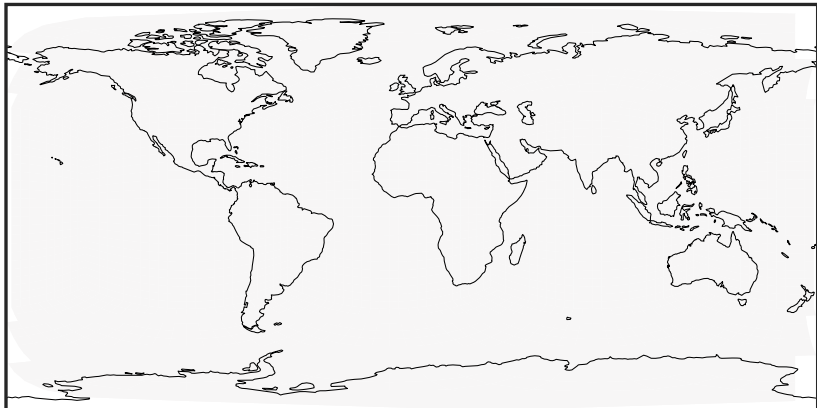
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



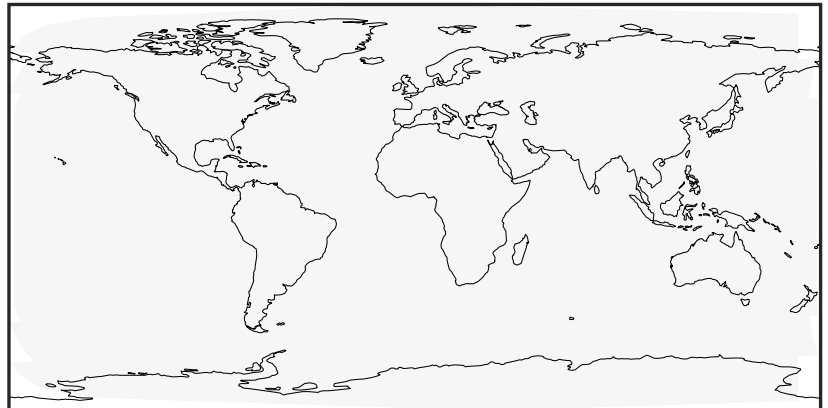
Zero throughput domain
s-1

Difference
Dev - Ref, Dynamic Range



Zero throughput domain
s-1

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



Zero throughput domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

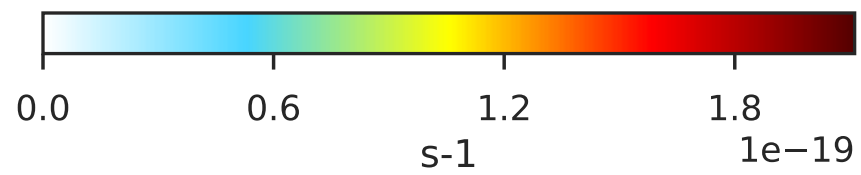
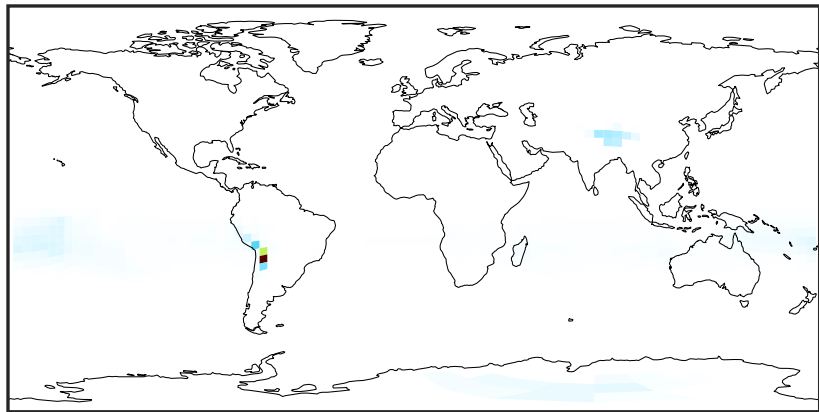
Ratio
Dev/Ref, Fixed Range



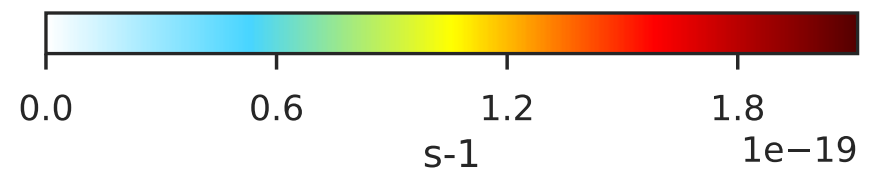
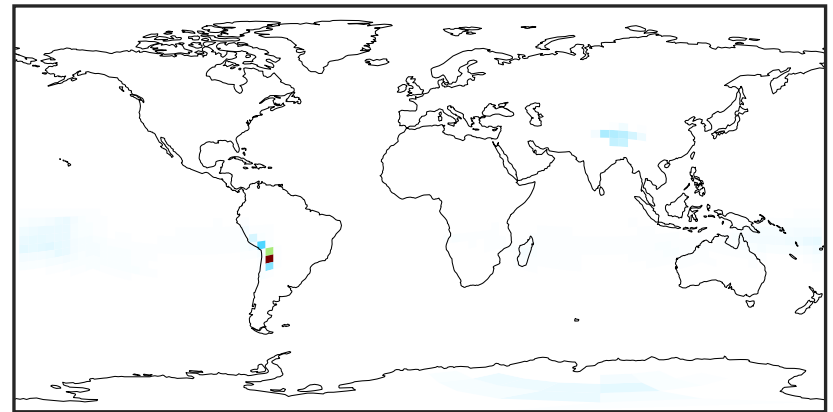
Undefined throughput domain
unitless

Jval_HCFC123 (Jan2019)

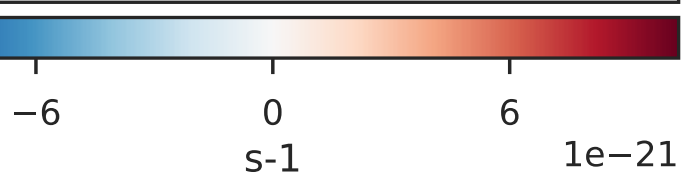
GCHP_14.0.0 (Ref)
c24



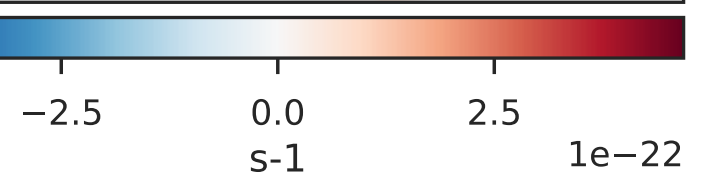
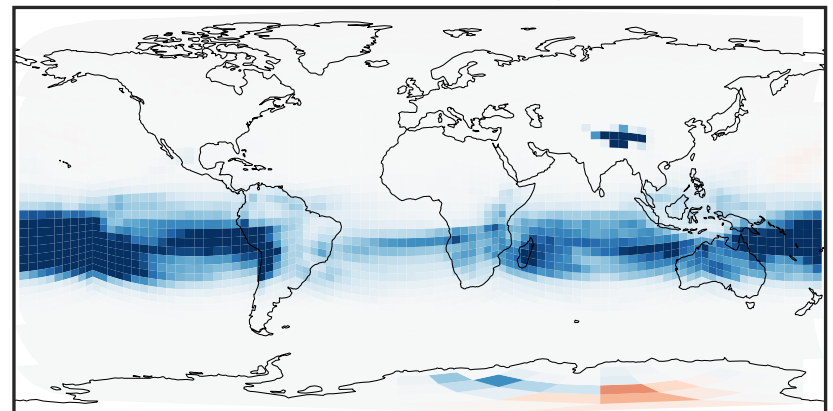
GCHP_14.2.0 (Dev)
c24



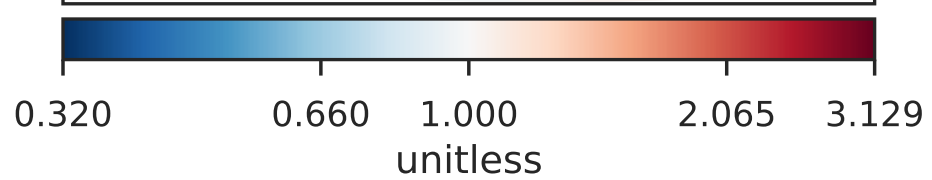
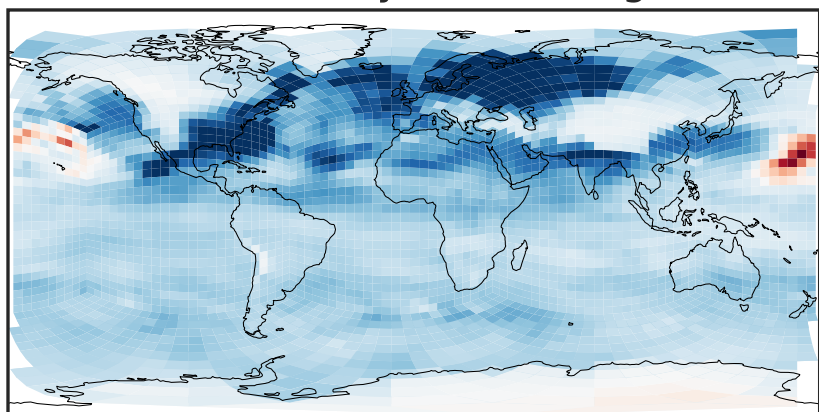
Difference
Dev - Ref, Dynamic Range



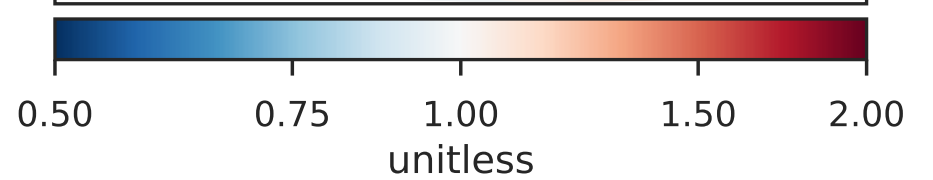
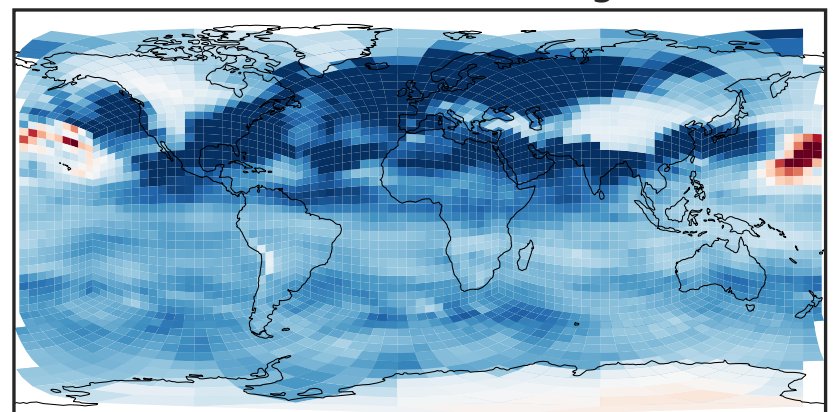
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

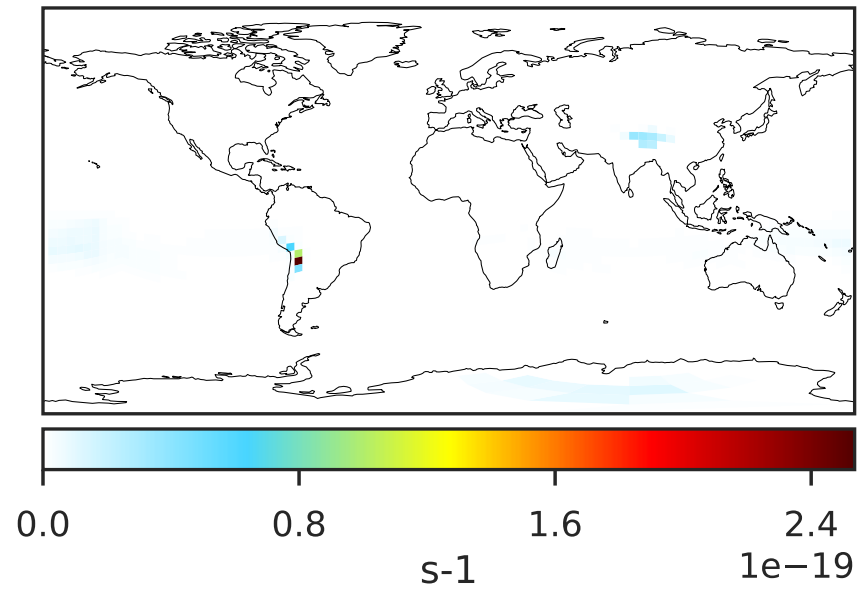


Ratio
Dev/Ref, Fixed Range

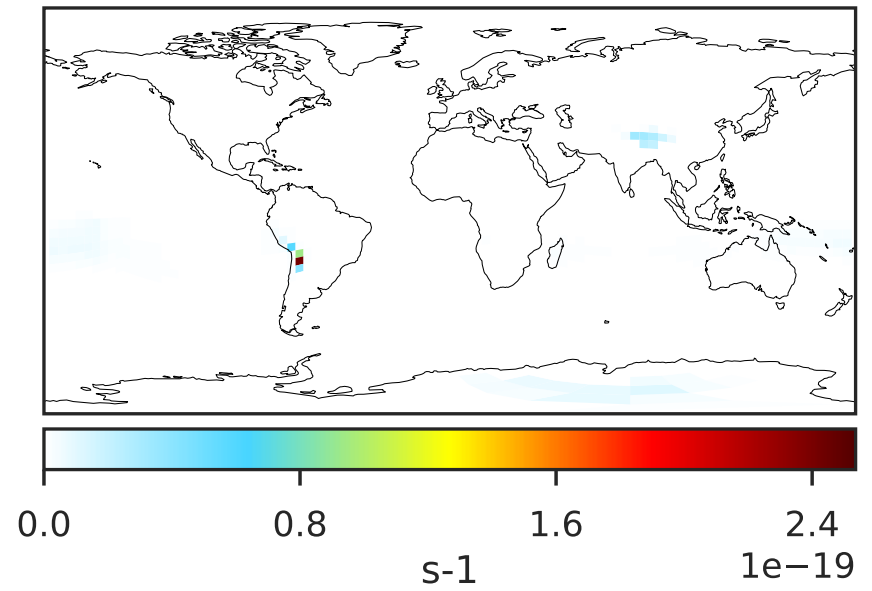


Jval_HCFC141b (Jan2019)

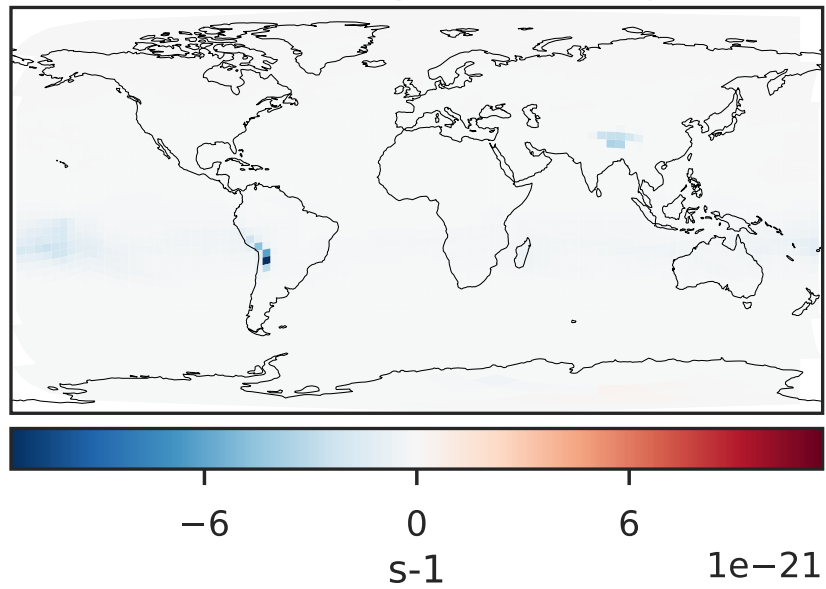
GCHP_14.0.0 (Ref)
c24



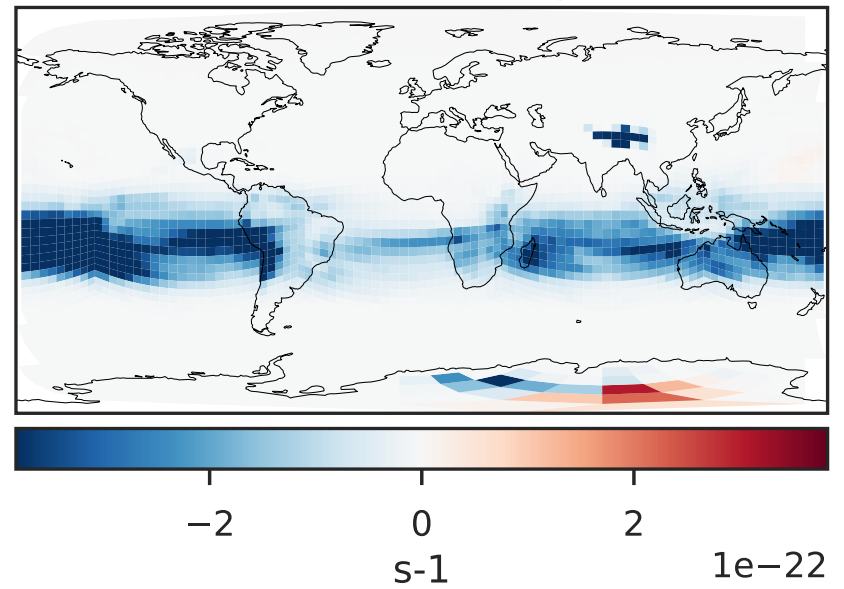
GCHP_14.2.0 (Dev)
c24



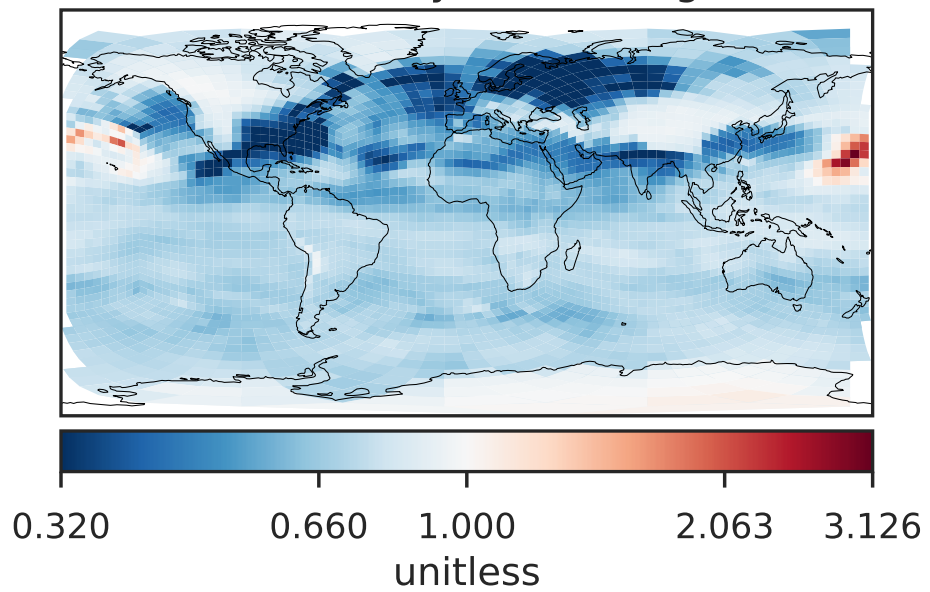
Difference
Dev - Ref, Dynamic Range



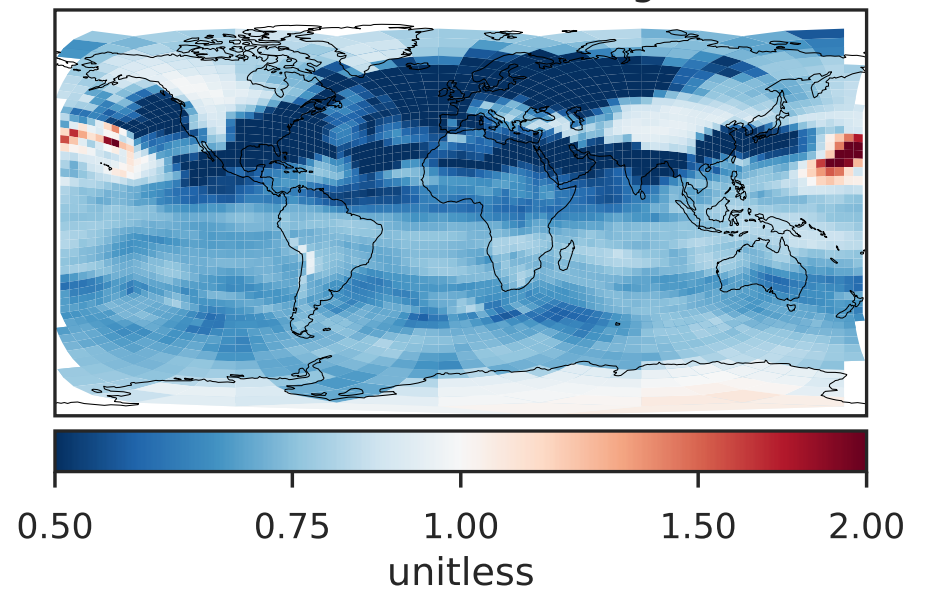
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

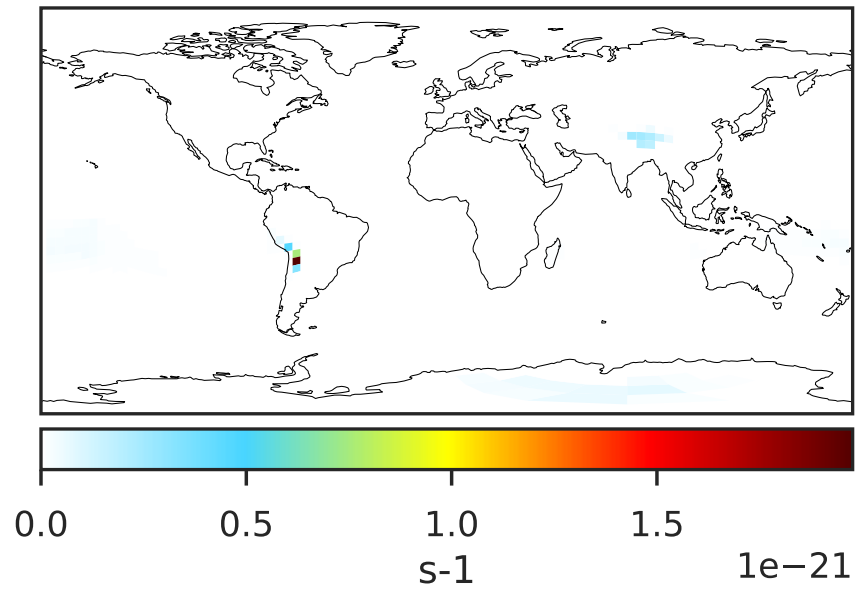


Ratio
Dev/Ref, Fixed Range

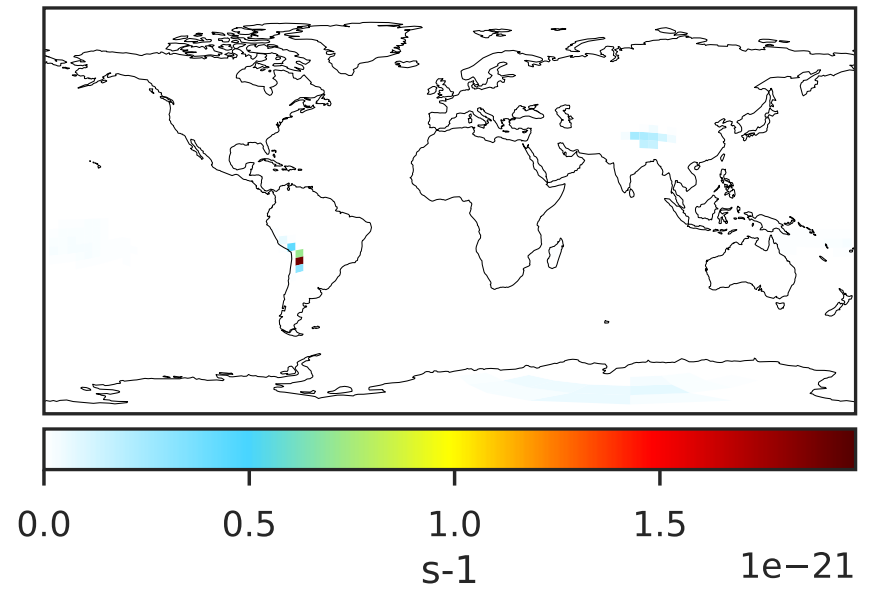


Jval_HCFC142b (Jan2019)

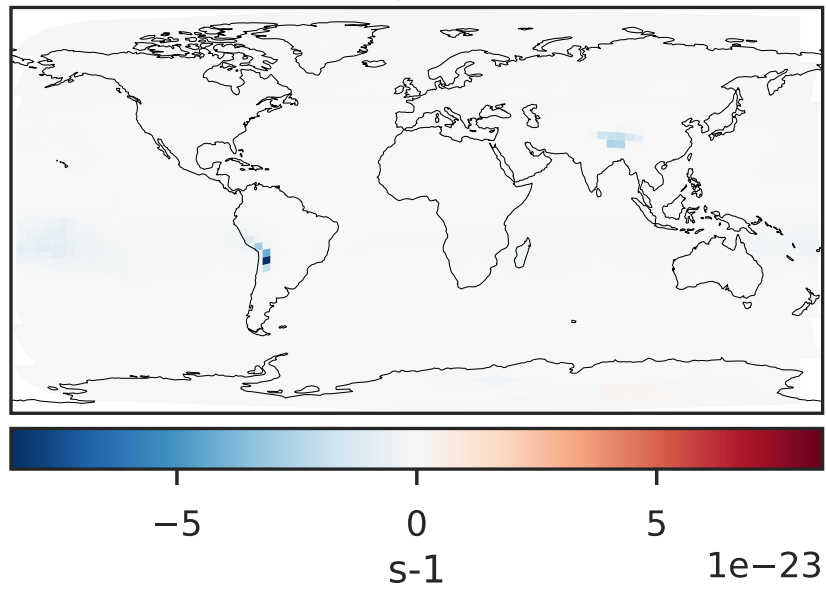
GCHP_14.0.0 (Ref)
c24



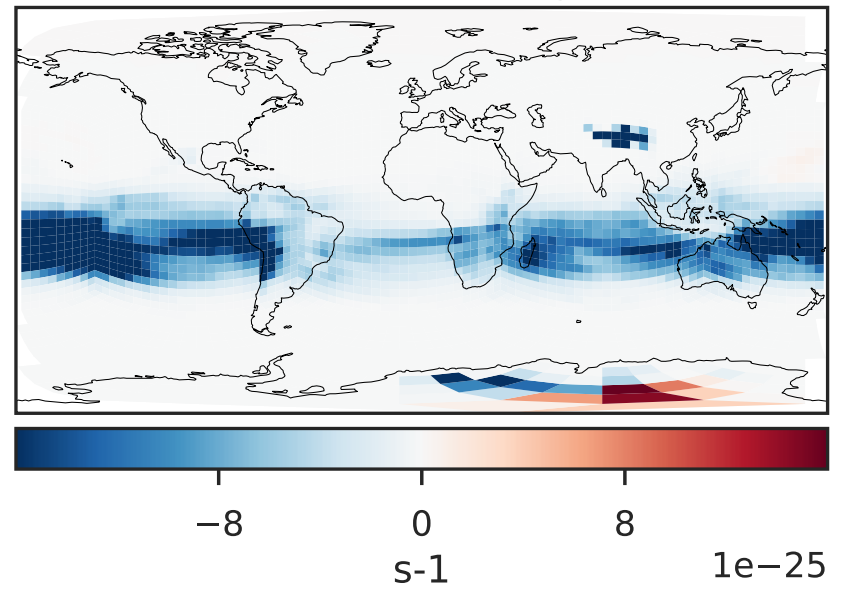
GCHP_14.2.0 (Dev)
c24



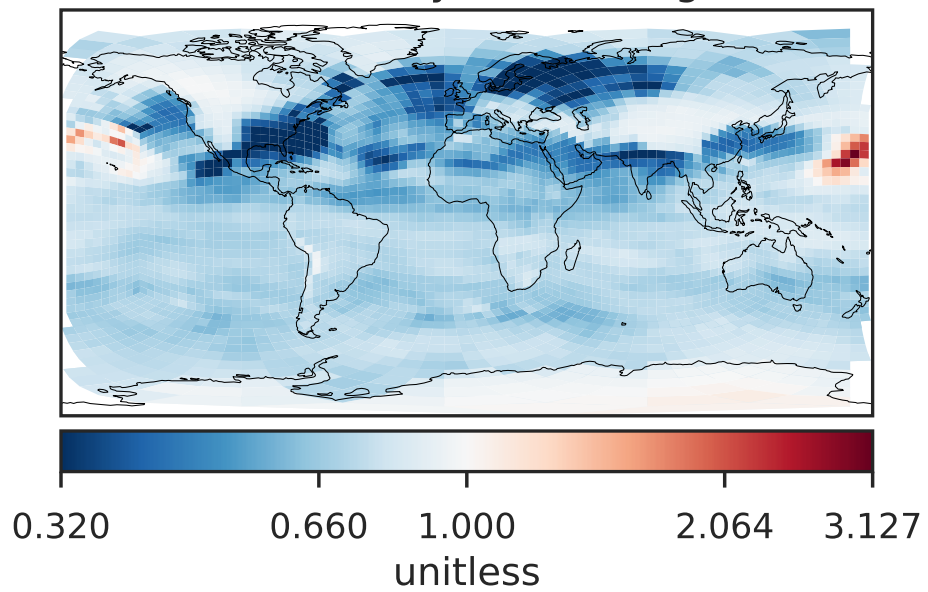
Difference
Dev - Ref, Dynamic Range



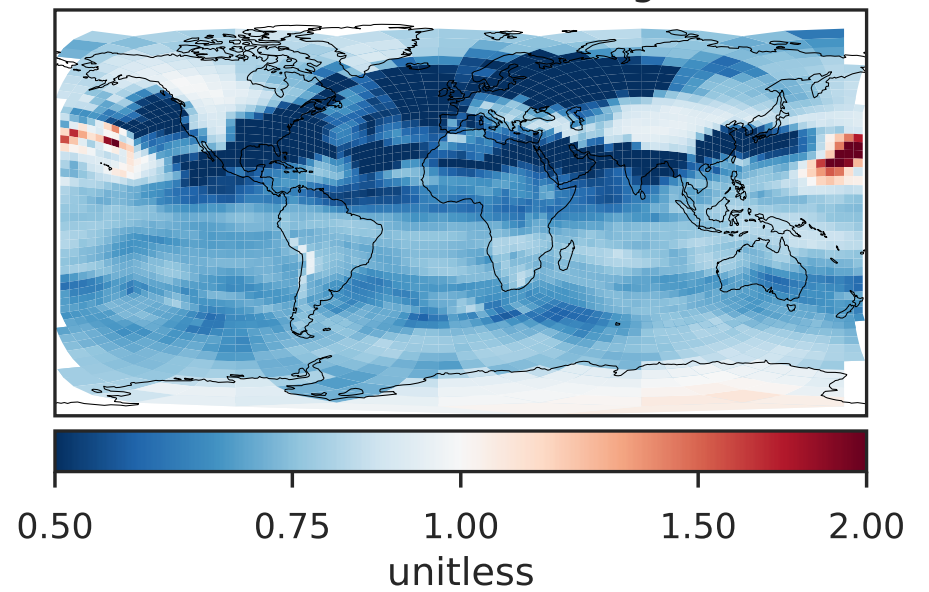
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

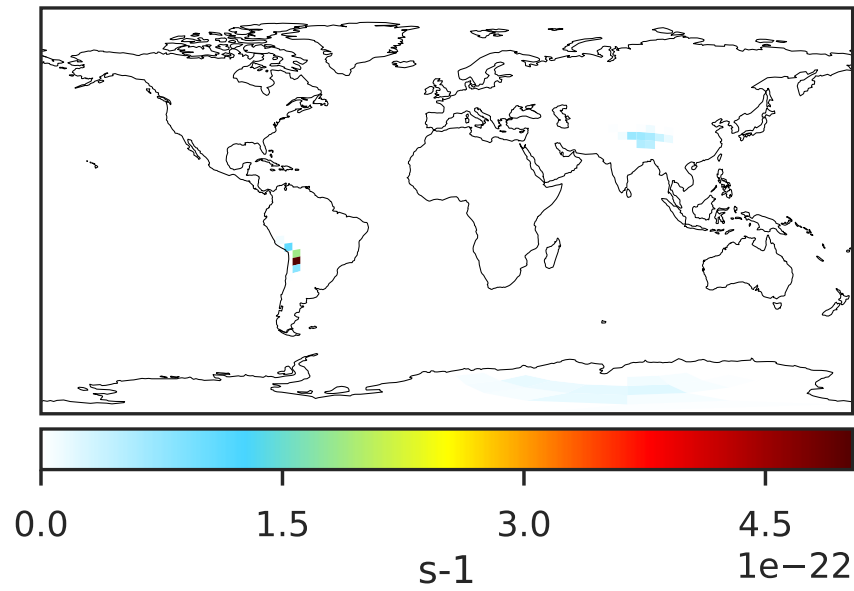


Ratio
Dev/Ref, Fixed Range

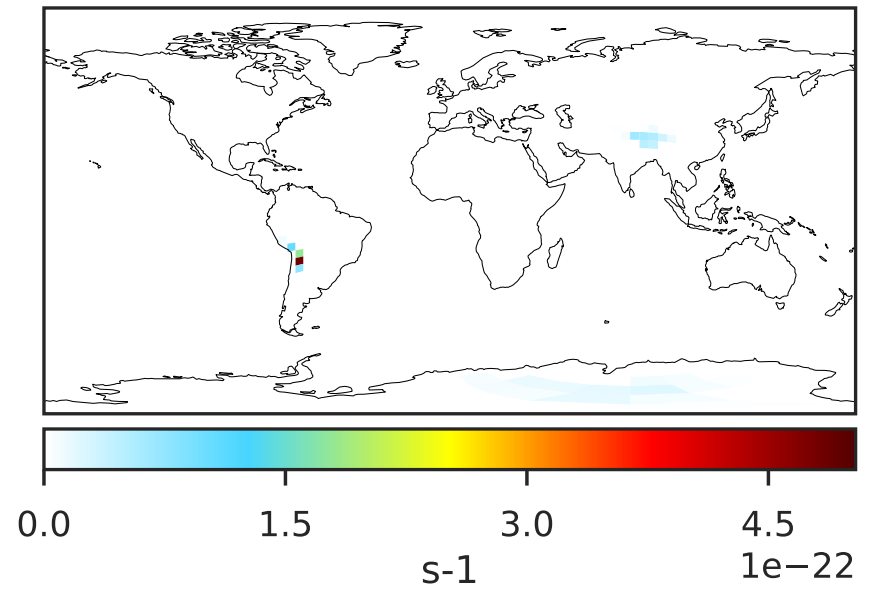


Jval_HCFC22 (Jan2019)

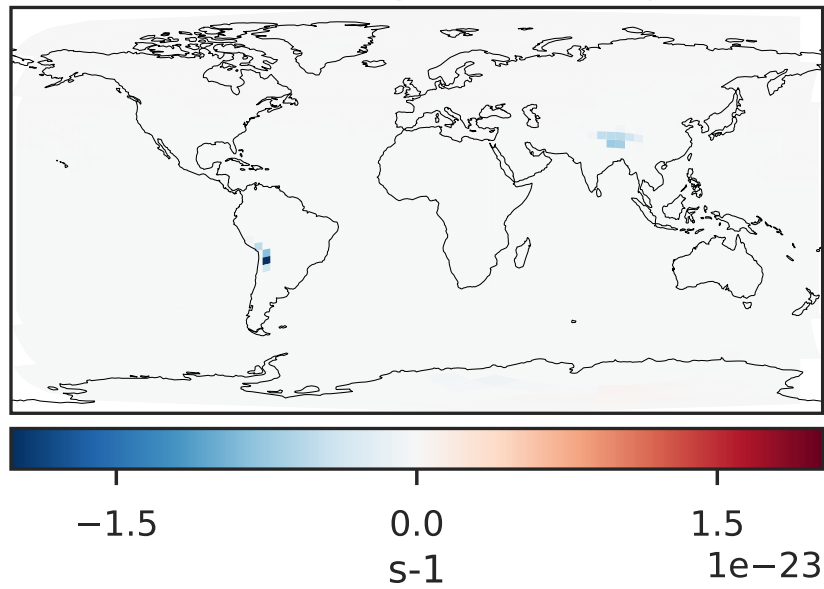
GCHP_14.0.0 (Ref)
c24



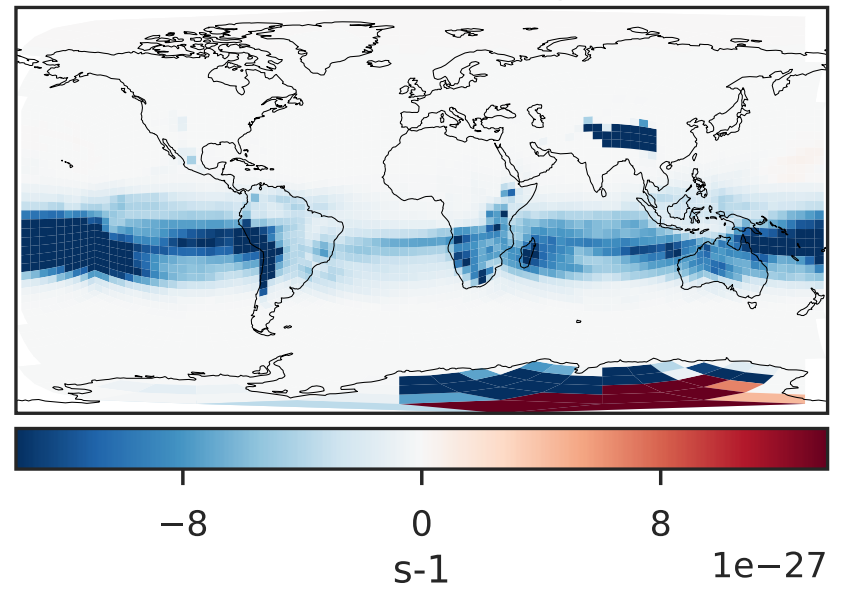
GCHP_14.2.0 (Dev)
c24



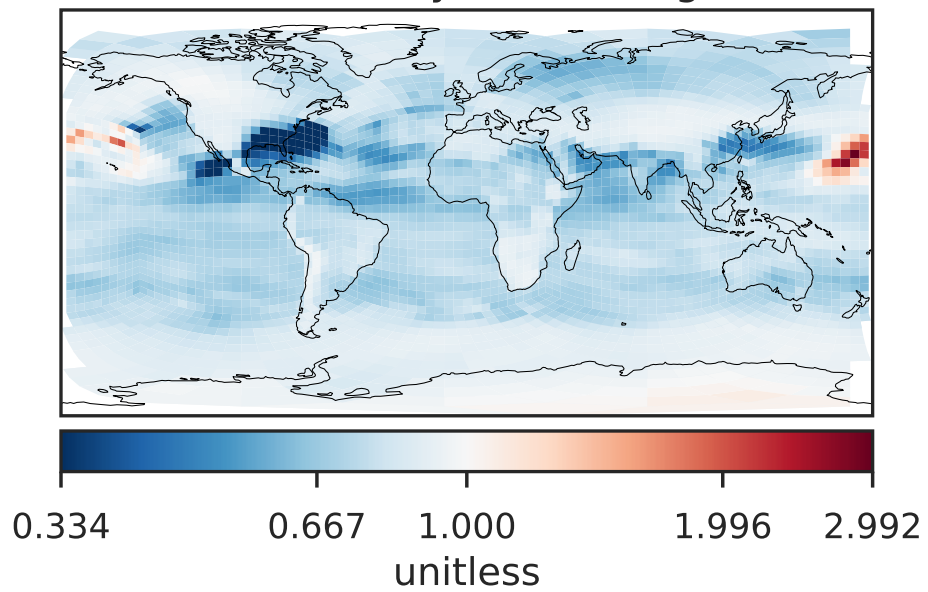
Difference
Dev - Ref, Dynamic Range



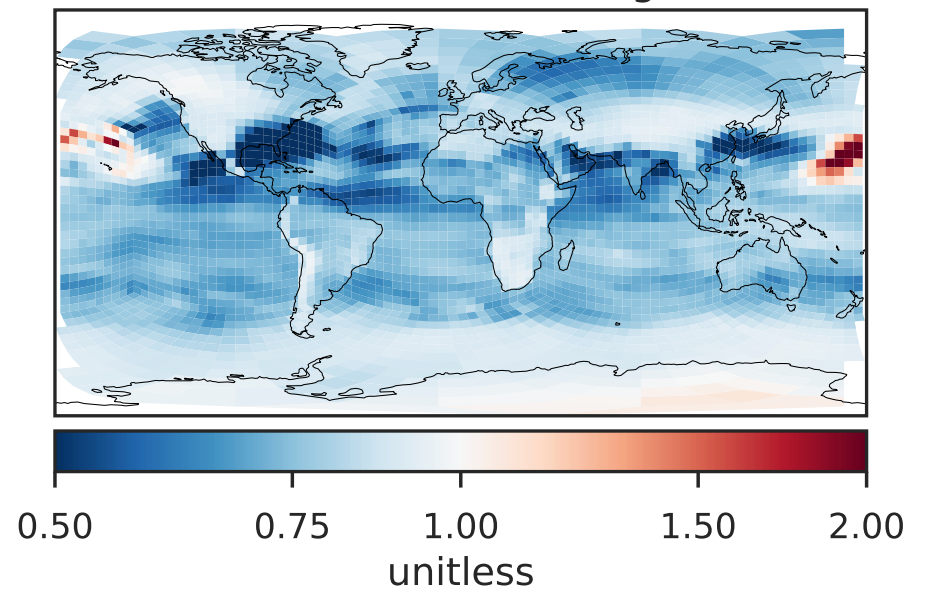
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

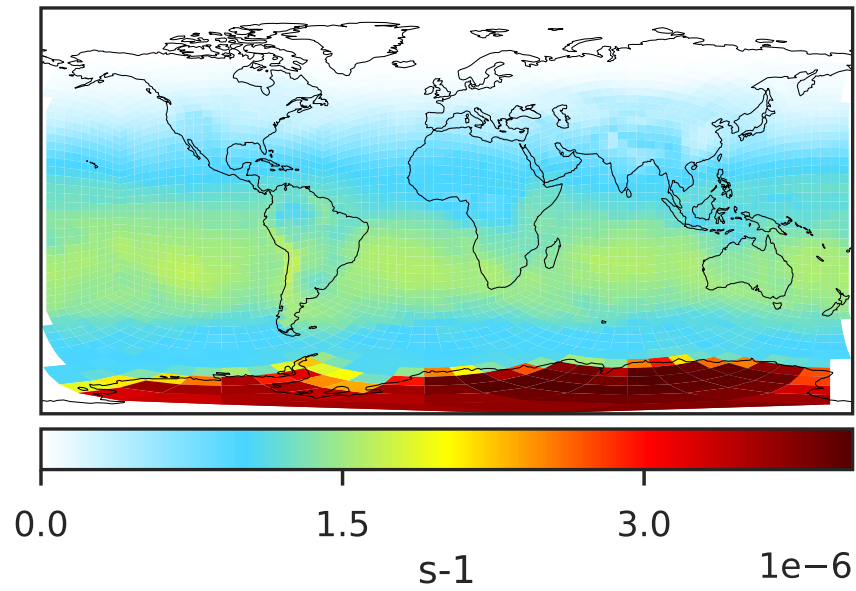


Ratio
Dev/Ref, Fixed Range

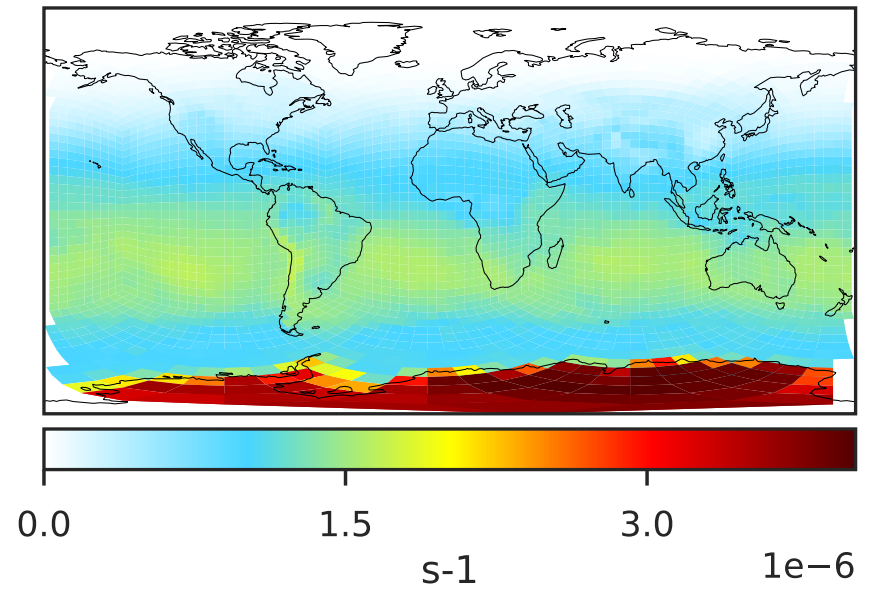


Jval_HMHP (Jan2019)

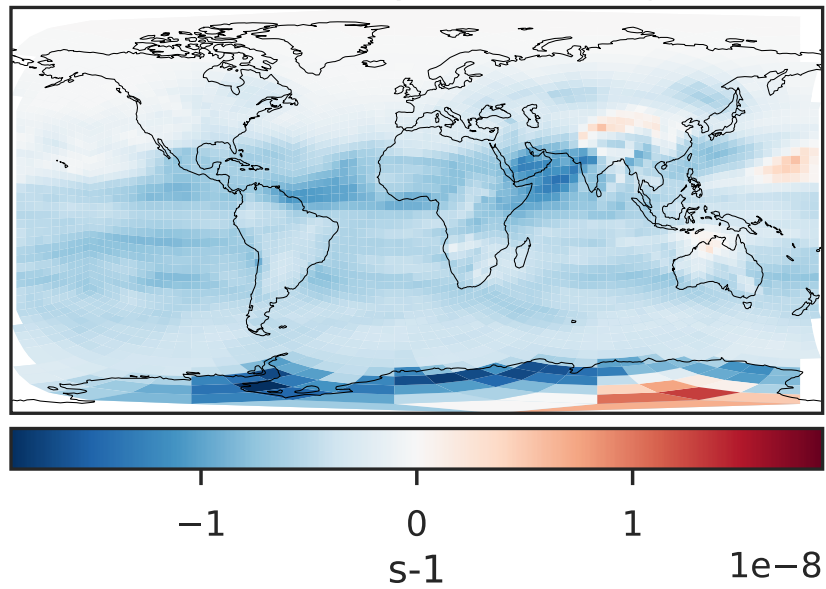
GCHP_14.0.0 (Ref)
c24



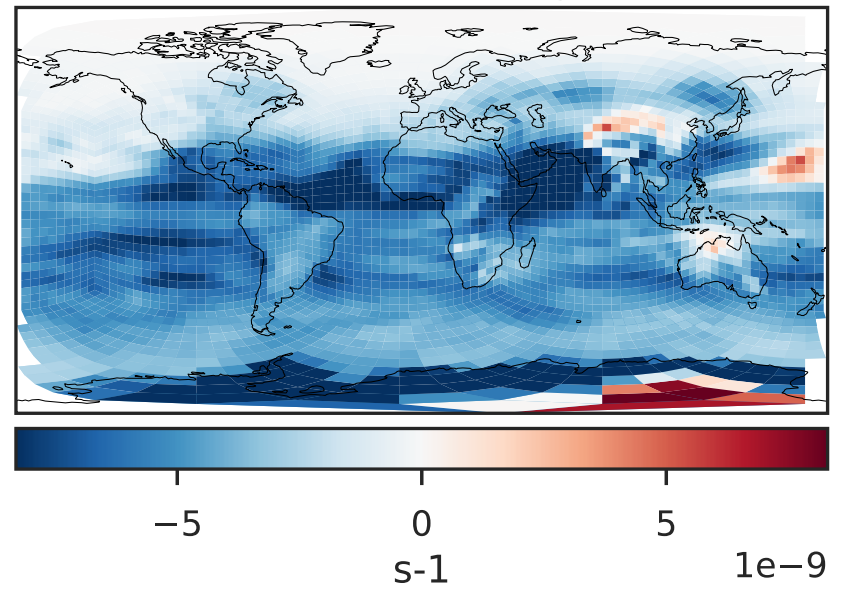
GCHP_14.2.0 (Dev)
c24



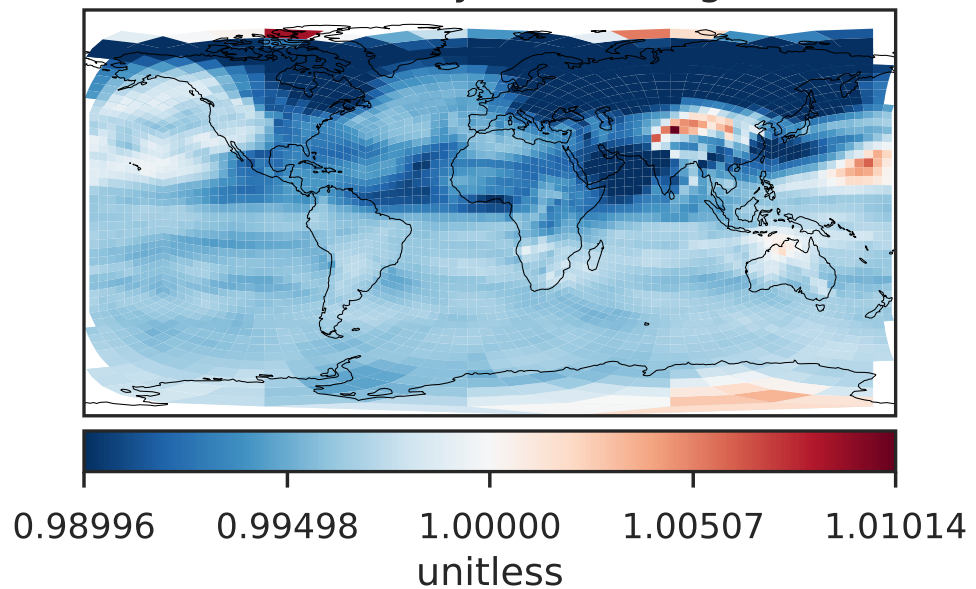
Difference
Dev - Ref, Dynamic Range



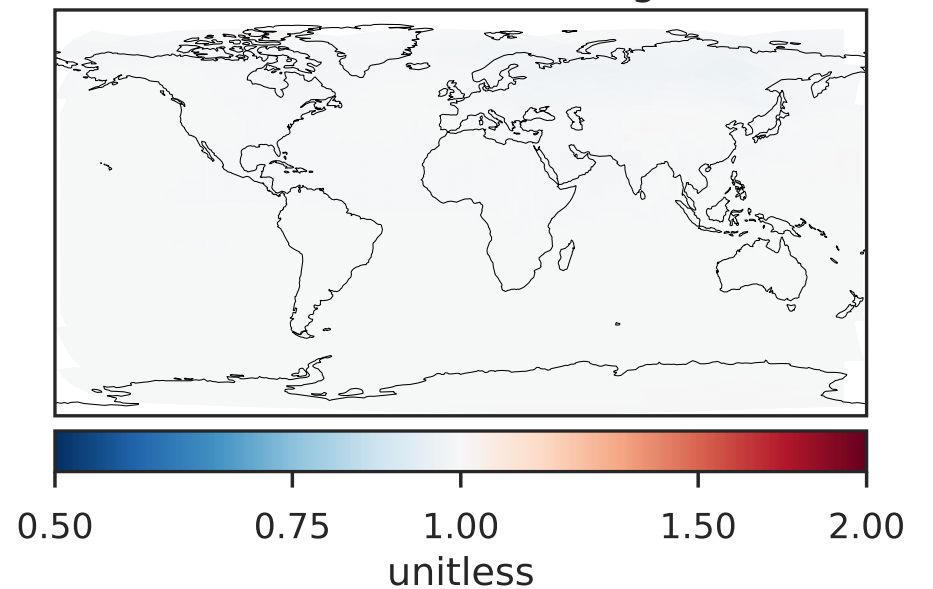
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

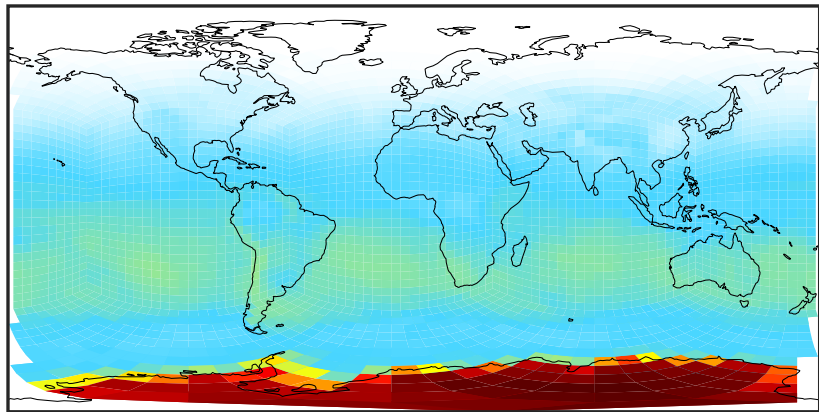


Ratio
Dev/Ref, Fixed Range



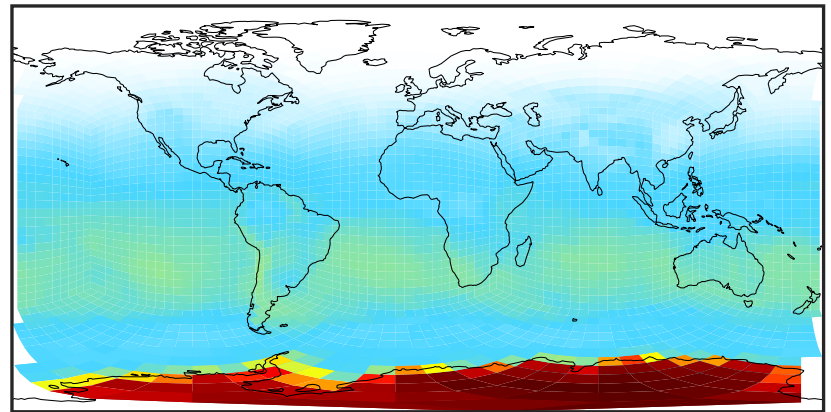
Jval_HNO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



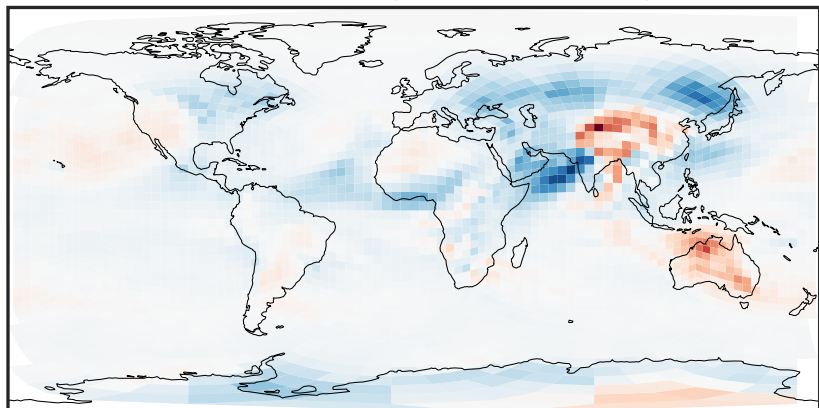
0.0000 0.0005 0.0010 0.0015
s-1

GCHP_14.2.0 (Dev)
c24



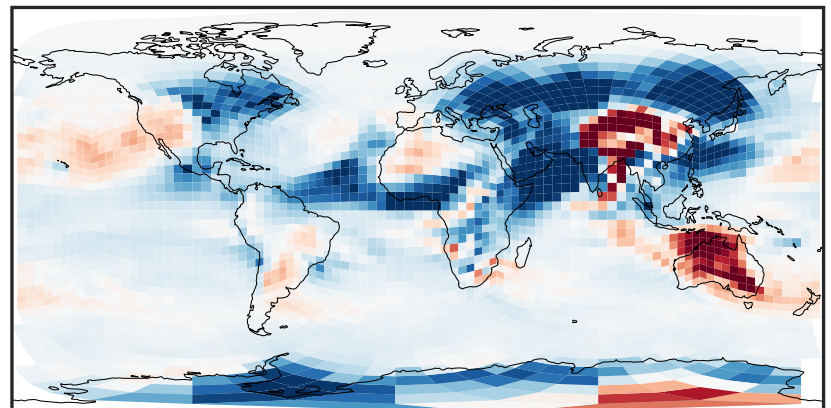
0.0000 0.0005 0.0010 0.0015
s-1

Difference
Dev - Ref, Dynamic Range



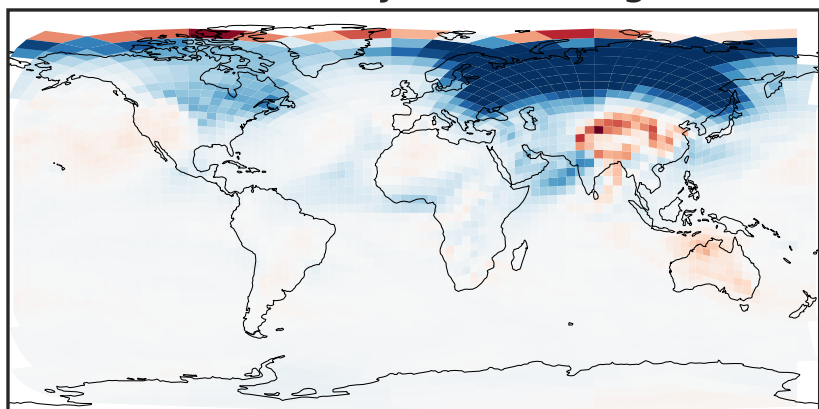
-2 0 2
s-1 1e-6

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



-5 0 5
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98767 0.99383 1.00000 1.00624 1.01249
unitless

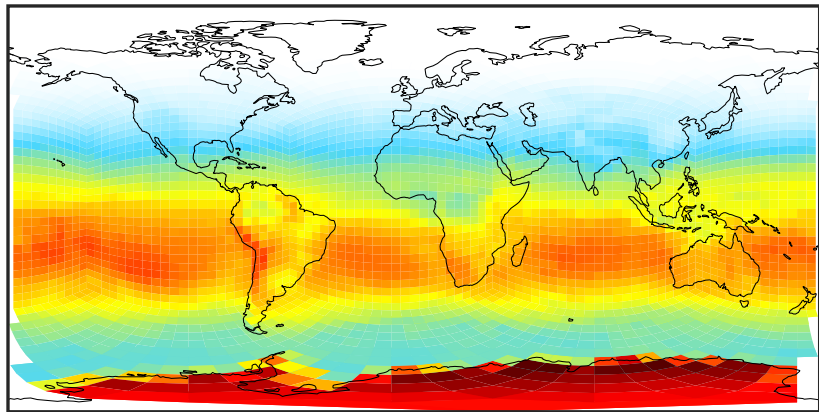
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

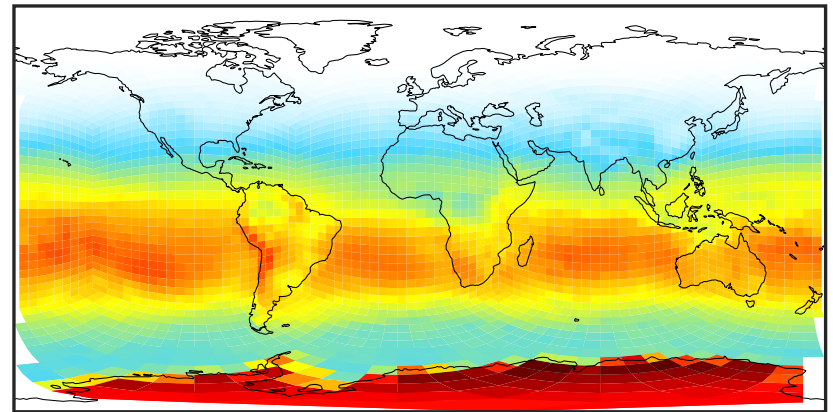
Jval_HNO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



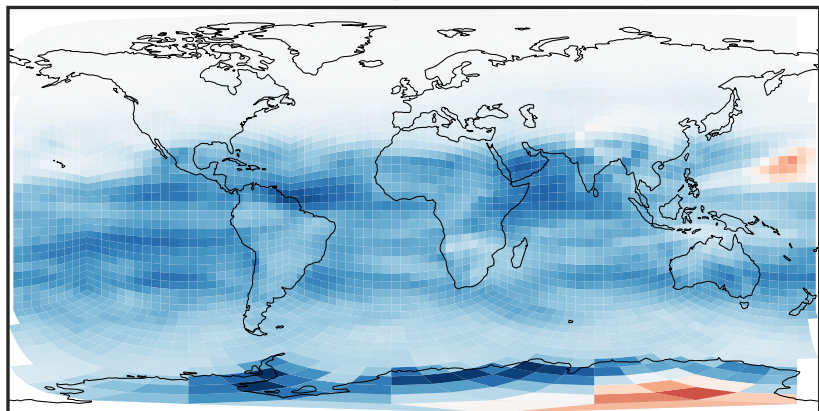
0.0 1.5 3.0 10^{-7}
s-1

GCHP_14.2.0 (Dev)
c24



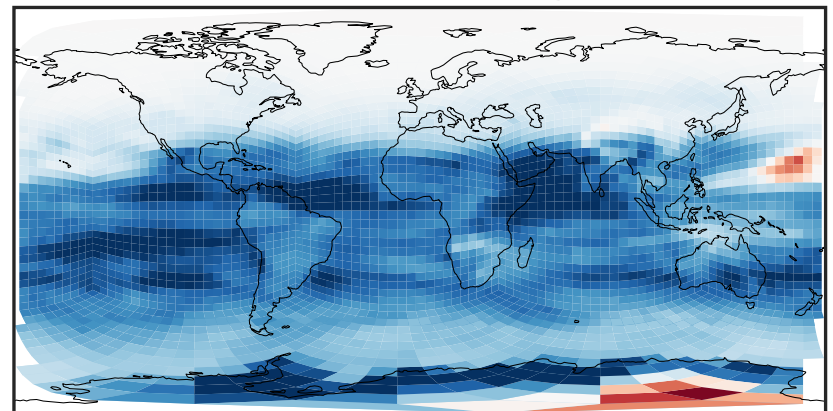
0.0 1.5 3.0 10^{-7}
s-1

Difference
Dev - Ref, Dynamic Range



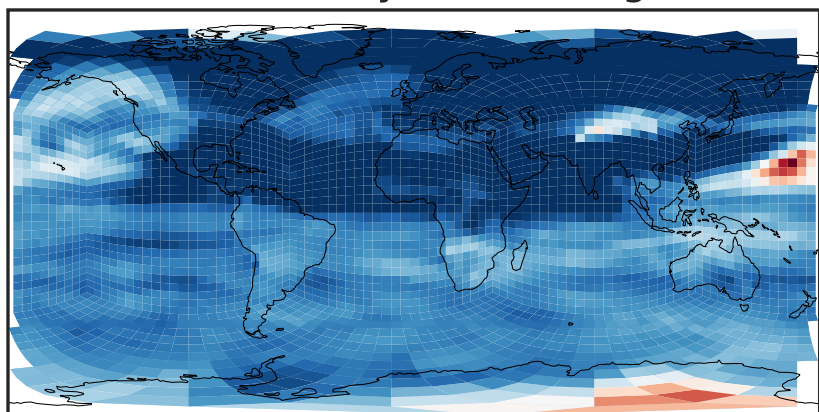
-3 0 3 10^{-9}
s-1

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



-2 0 2 10^{-9}
s-1

Ratio
Dev/Ref, Dynamic Range



0.98206 0.99103 1.00000 1.00913 1.01826
unitless

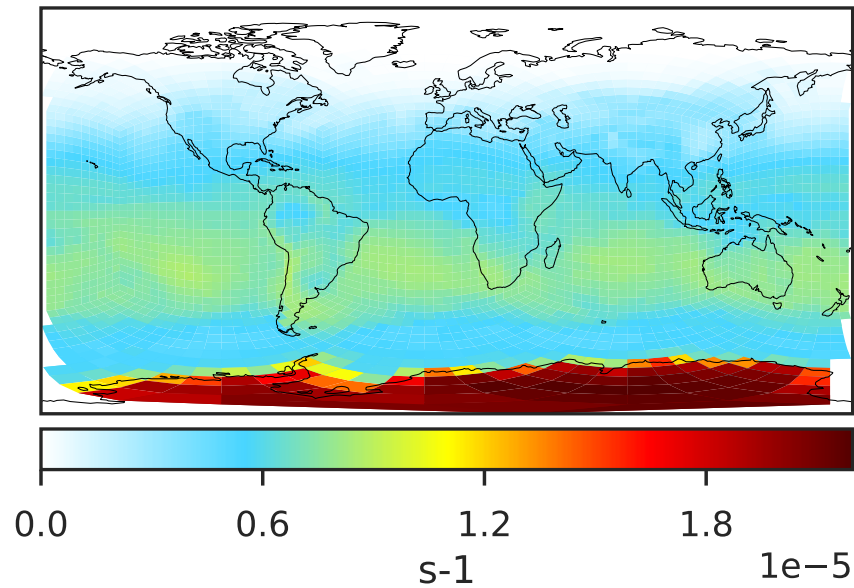
Ratio
Dev/Ref, Fixed Range



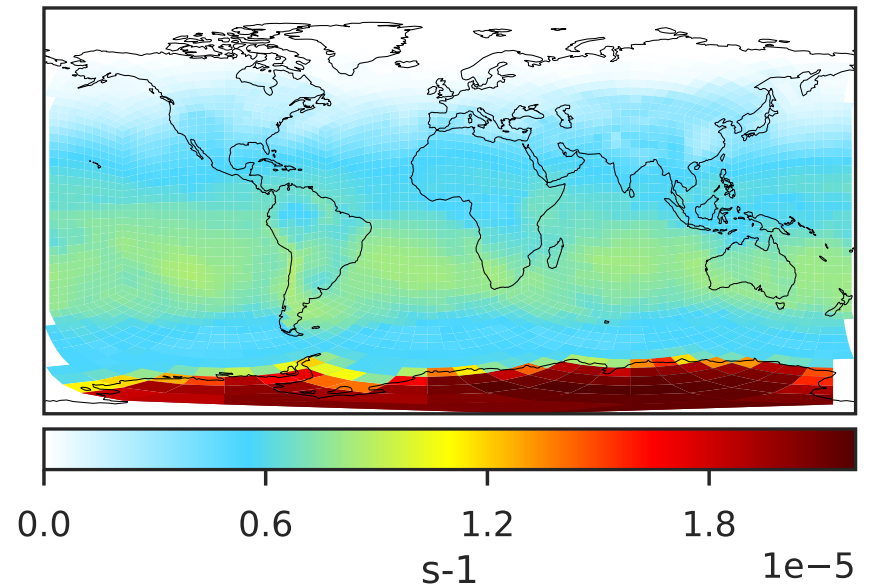
0.50 0.75 1.00 1.50 2.00
unitless

Jval_HNO4 (Jan2019)

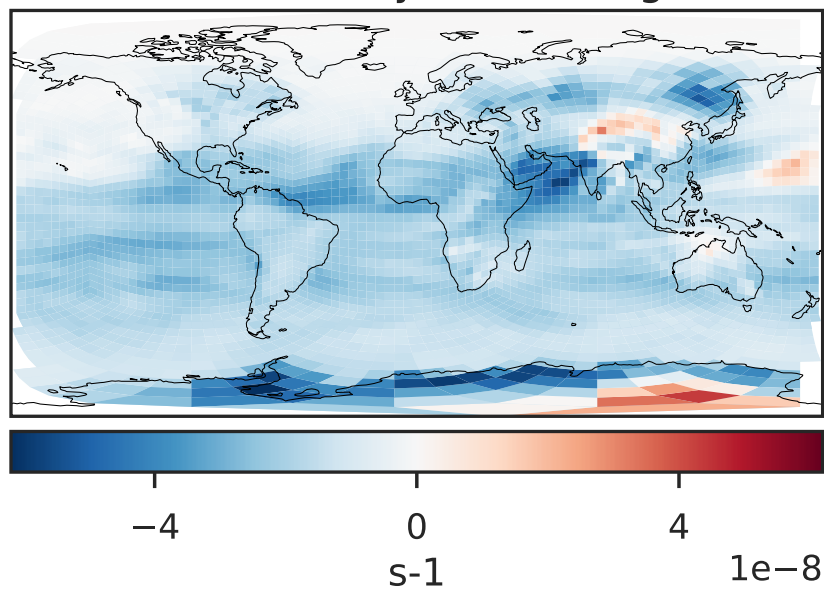
GCHP_14.0.0 (Ref)
c24



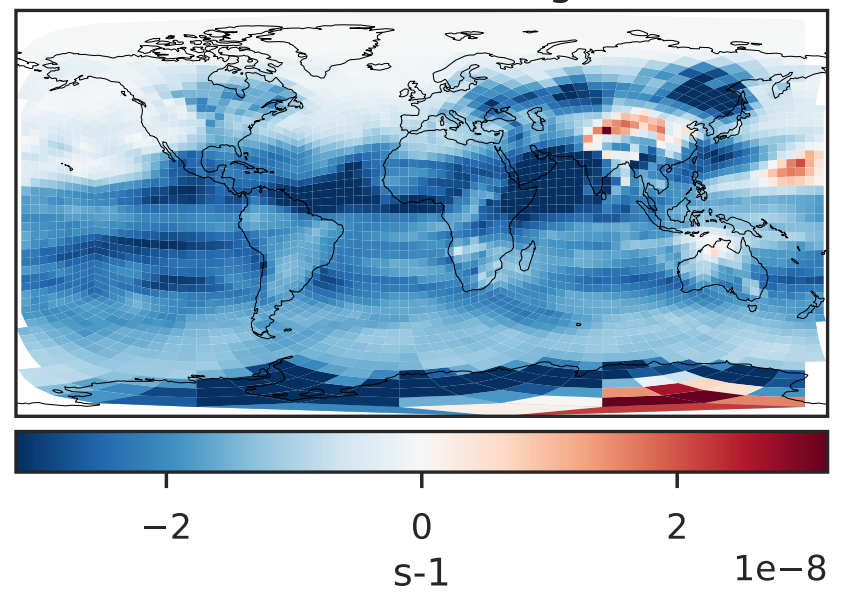
GCHP_14.2.0 (Dev)
c24



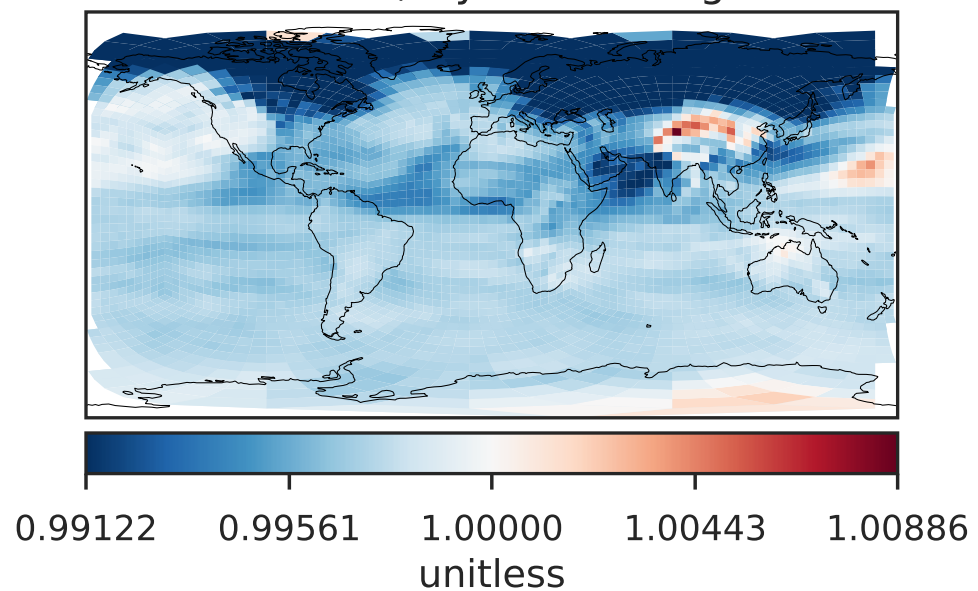
Difference
Dev - Ref, Dynamic Range



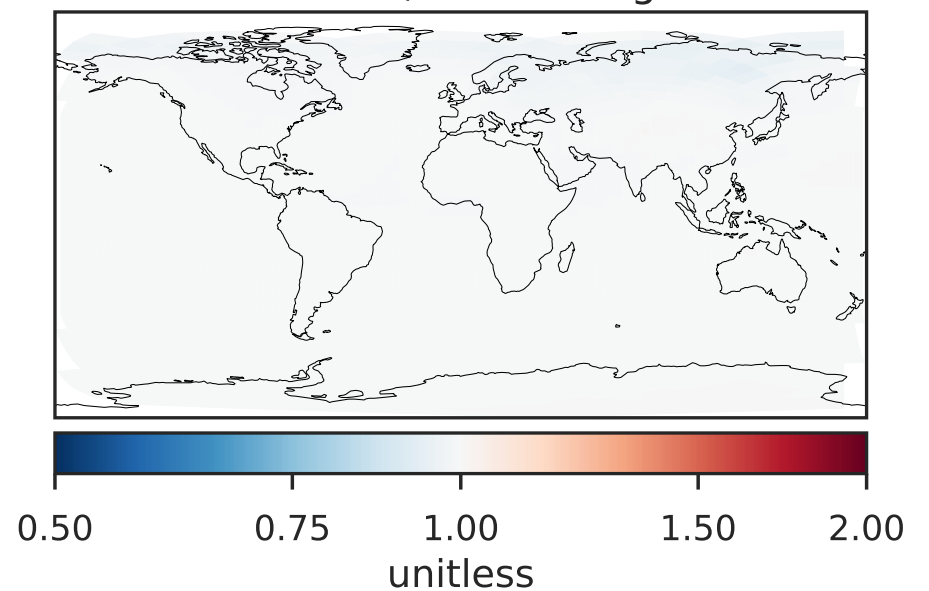
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

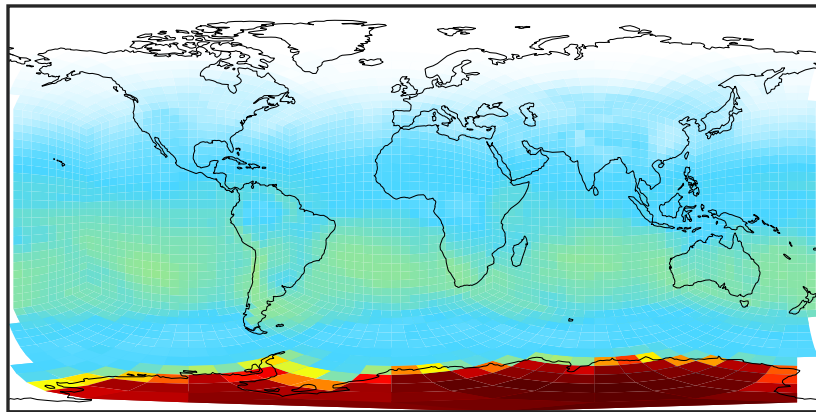


Ratio
Dev/Ref, Fixed Range



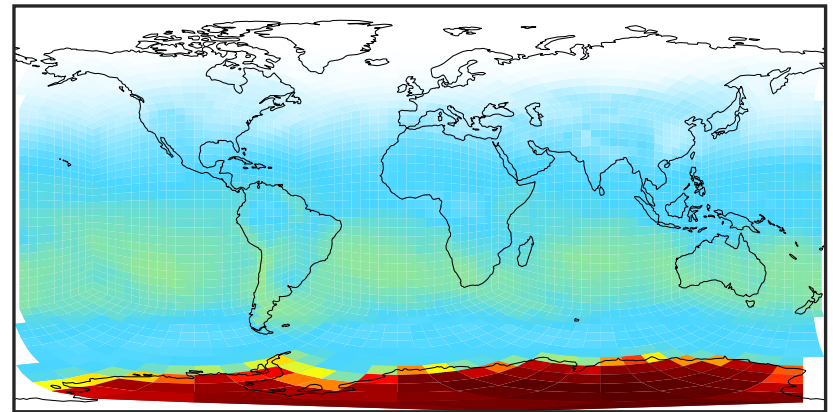
Jval_HOBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



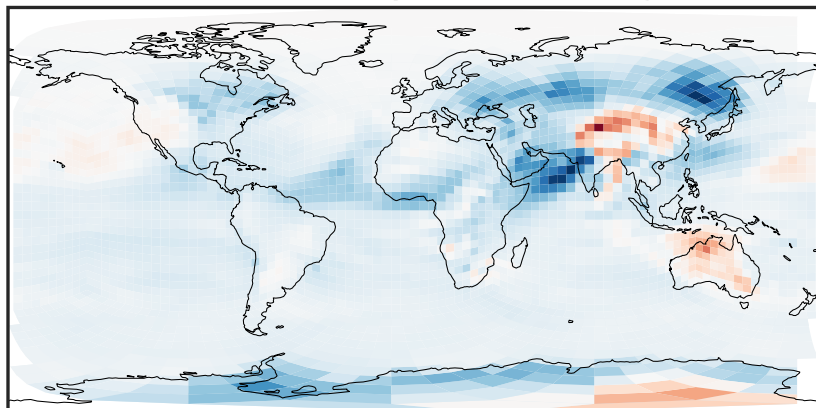
0.0000 0.0008 0.0016 0.0024
s-1

GCHP_14.2.0 (Dev)
c24



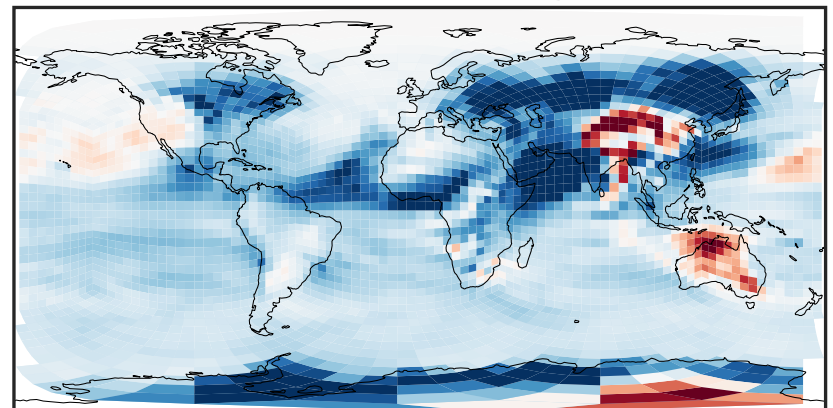
0.0000 0.0008 0.0016 0.0024
s-1

Difference
Dev - Ref, Dynamic Range



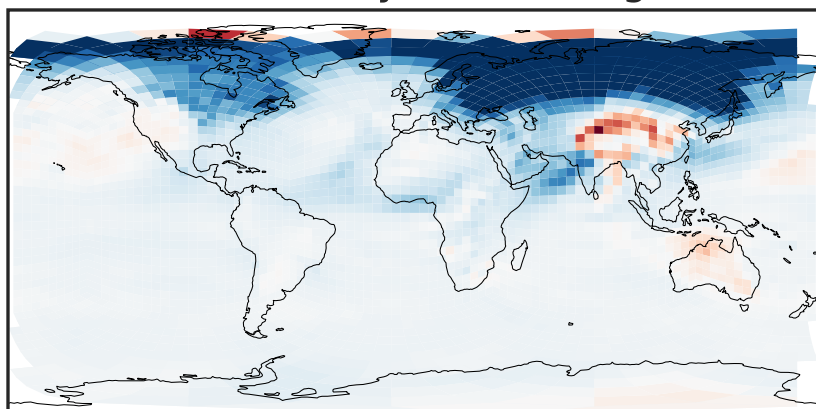
-3 0 3
s-1 $1e-6$

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



-1 0 1
s-1 $1e-6$

Ratio
Dev/Ref, Dynamic Range



0.98904 0.99452 1.00000 1.00554 1.01108
unitless

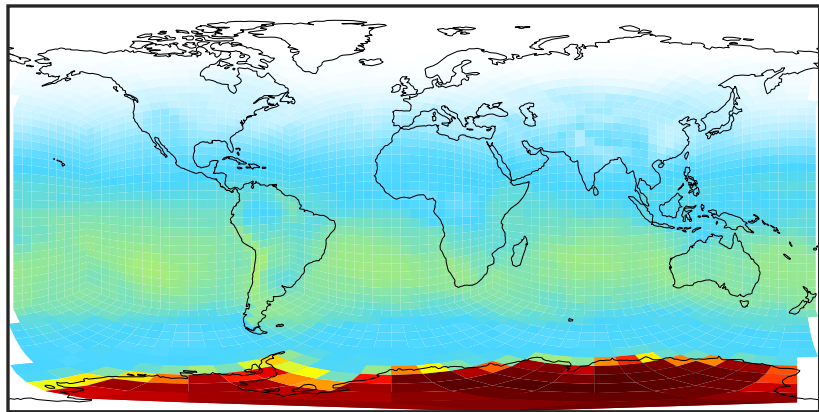
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

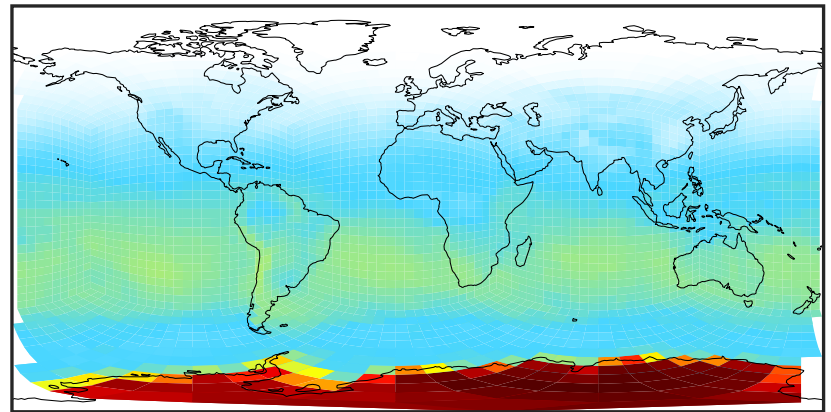
Jval_HOCl (Jan2019)

GCHP_14.0.0 (Ref)
c24



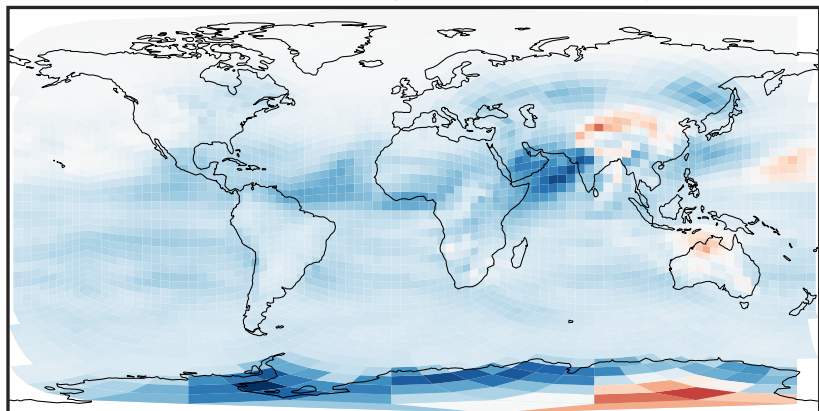
0.00000 0.00008 0.00016 0.00024
s-1

GCHP_14.2.0 (Dev)
c24



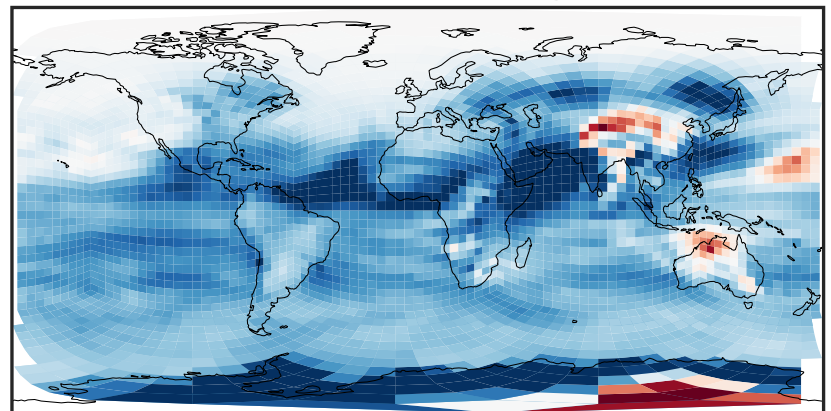
0.00000 0.00008 0.00016 0.00024
s-1

Difference
Dev - Ref, Dynamic Range



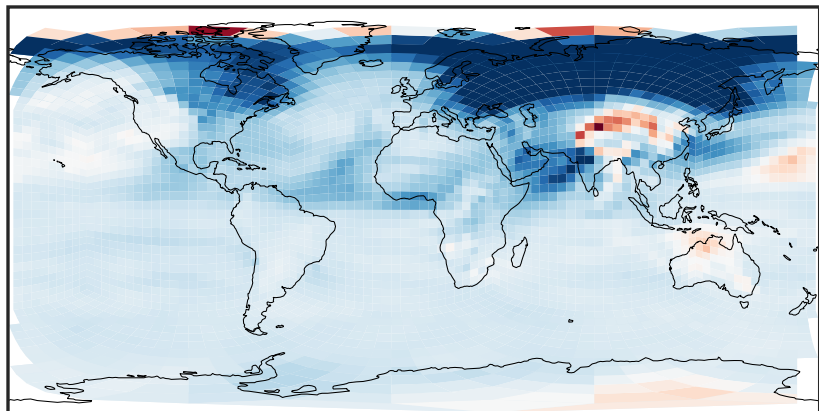
-5 0 5
s-1 $1e-7$

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



-2 0 2
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.98876 0.99438 1.00000 1.00568 1.01137
unitless

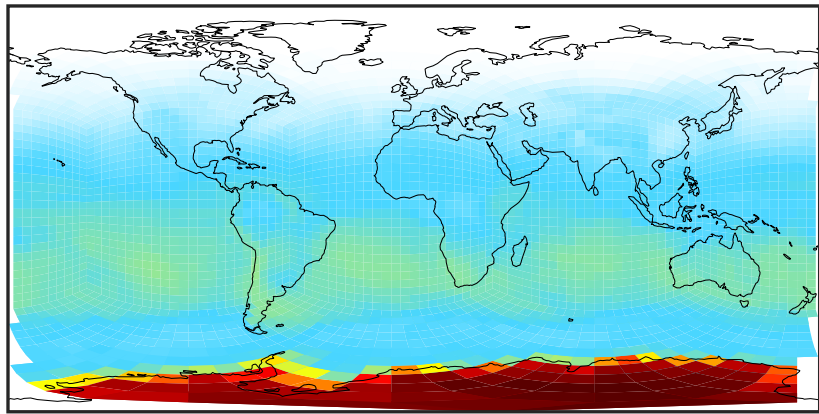
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

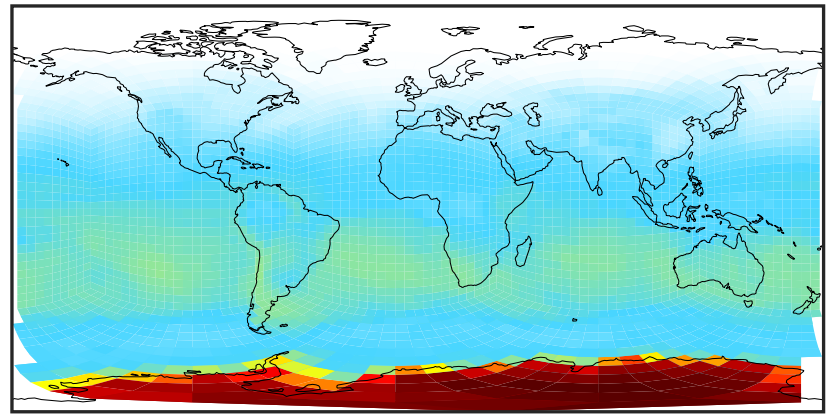
Jval_HOI (Jan2019)

GCHP_14.0.0 (Ref)
c24



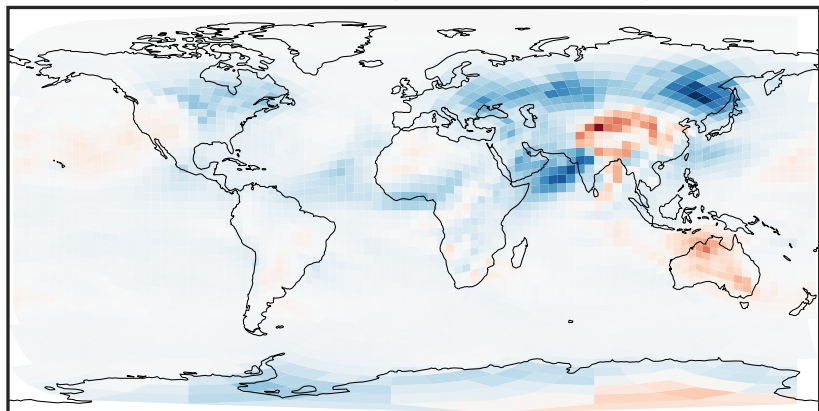
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



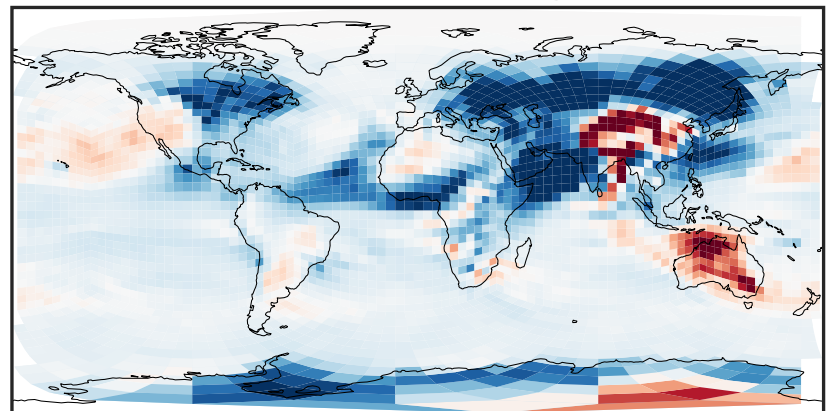
0.000 0.004 0.008 0.012
s-1

Difference
Dev - Ref, Dynamic Range



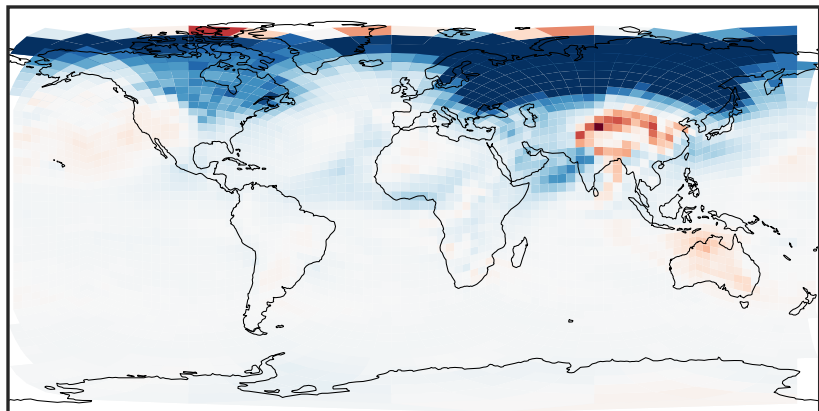
-1.5 0.0 1.5
s-1 1e-5

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



-4 0 4
s-1 1e-6

Ratio
Dev/Ref, Dynamic Range



0.98905 0.99453 1.00000 1.00553 1.01107
unitless

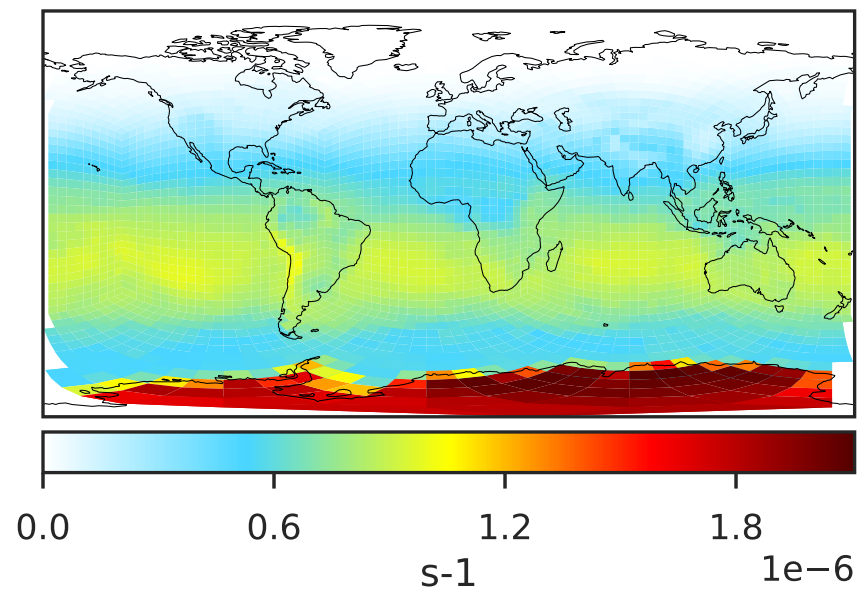
Ratio
Dev/Ref, Fixed Range



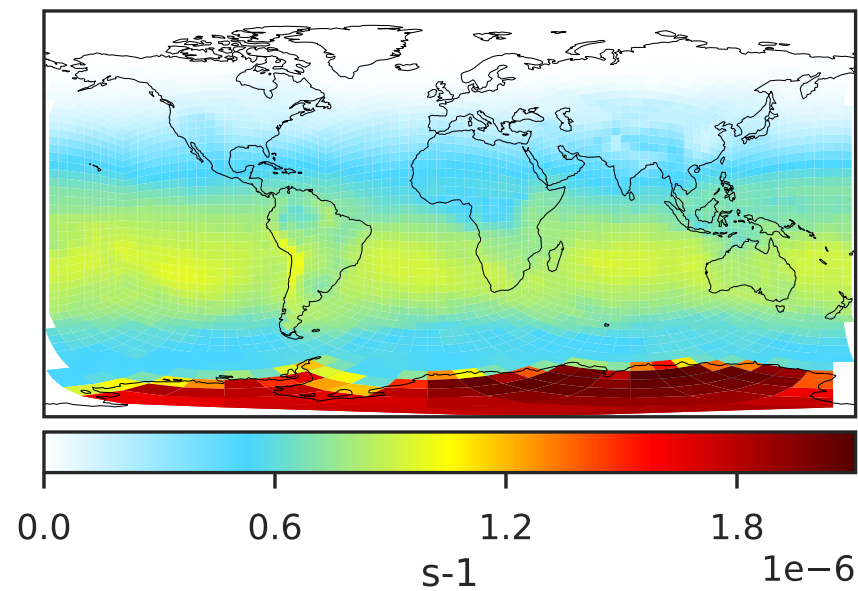
0.50 0.75 1.00 1.50 2.00
unitless

Jval_HONIT (Jan2019)

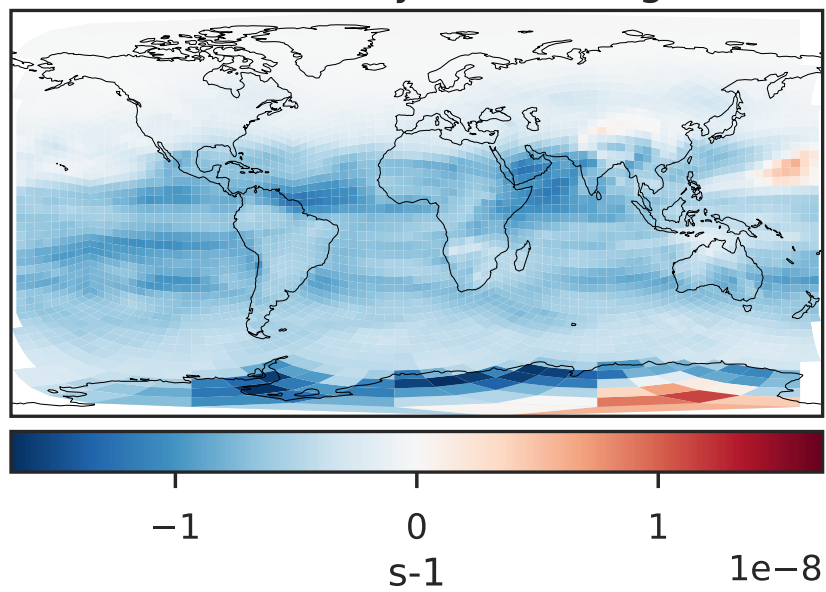
GCHP_14.0.0 (Ref)
c24



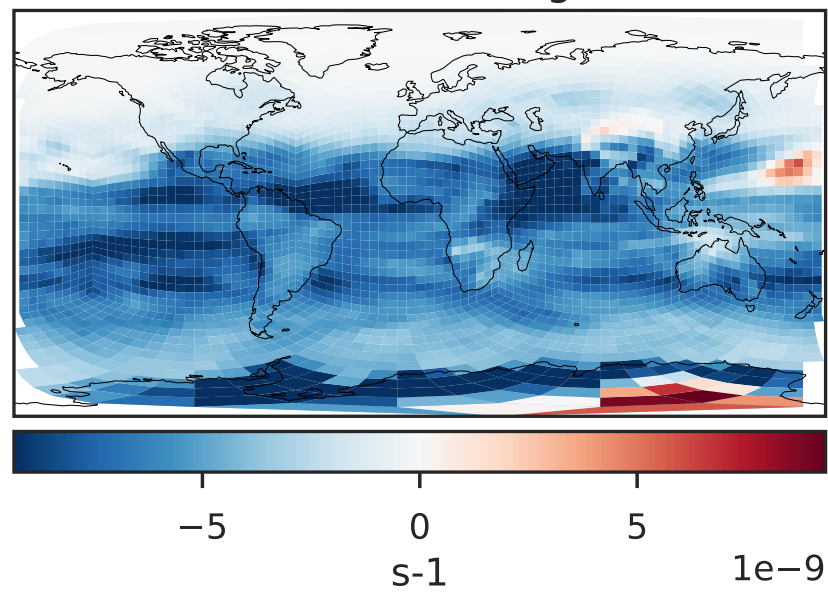
GCHP_14.2.0 (Dev)
c24



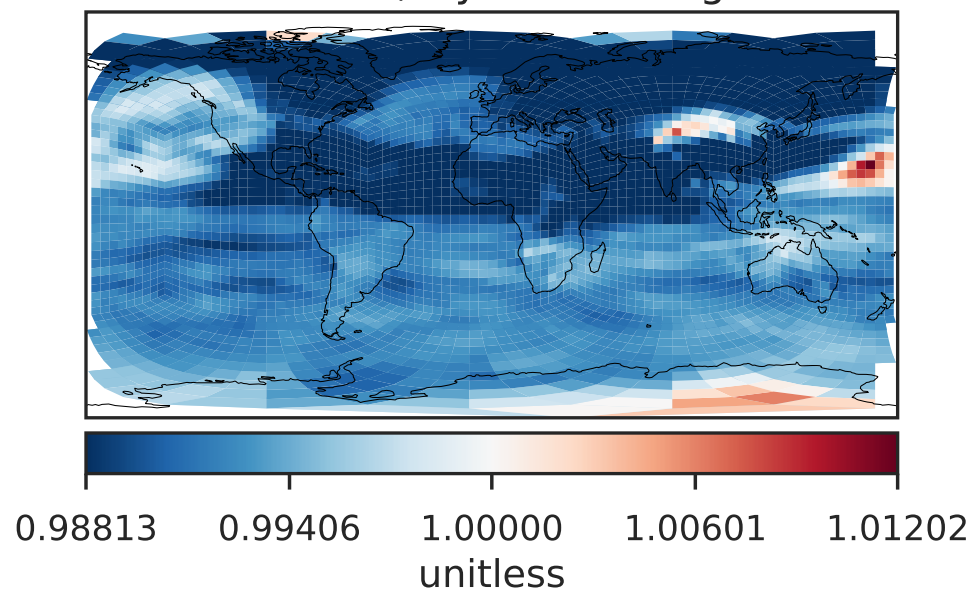
Difference
Dev - Ref, Dynamic Range



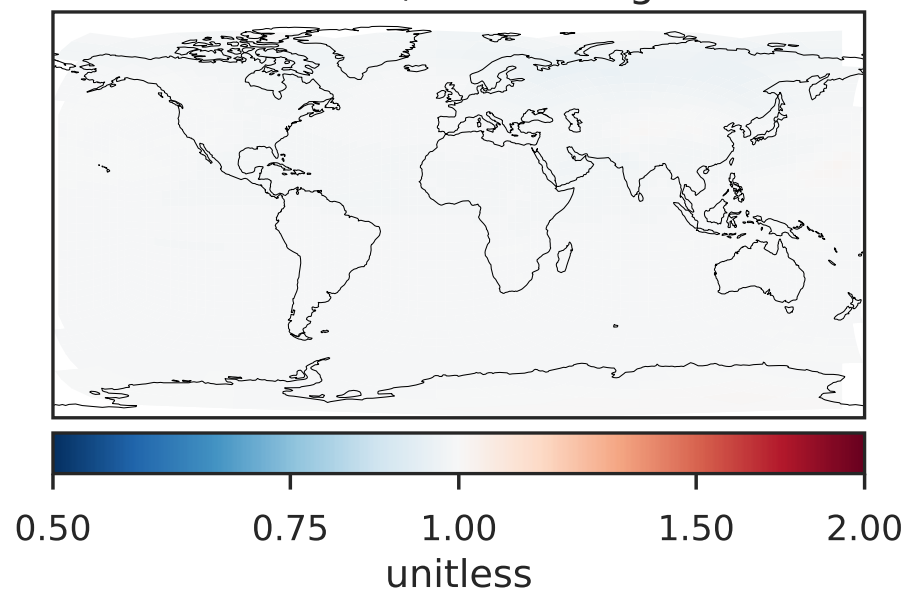
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

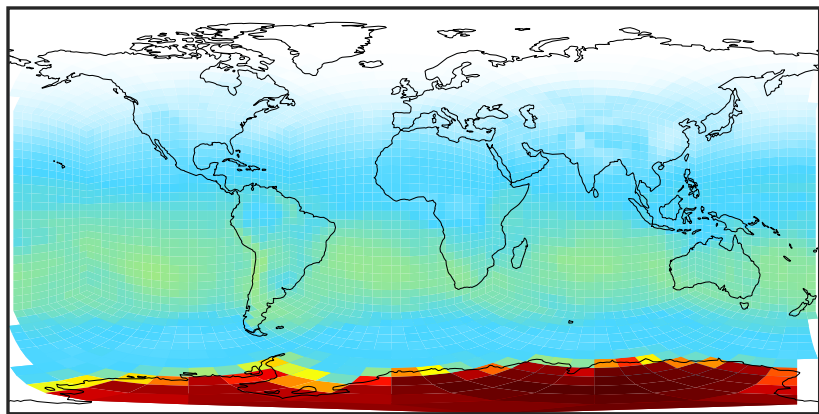


Ratio
Dev/Ref, Fixed Range



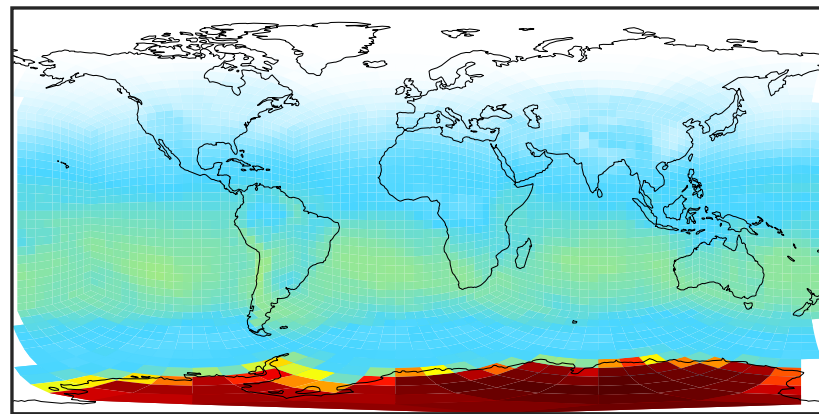
Jval_HPALD1 (Jan2019)

GCHP_14.0.0 (Ref)
c24



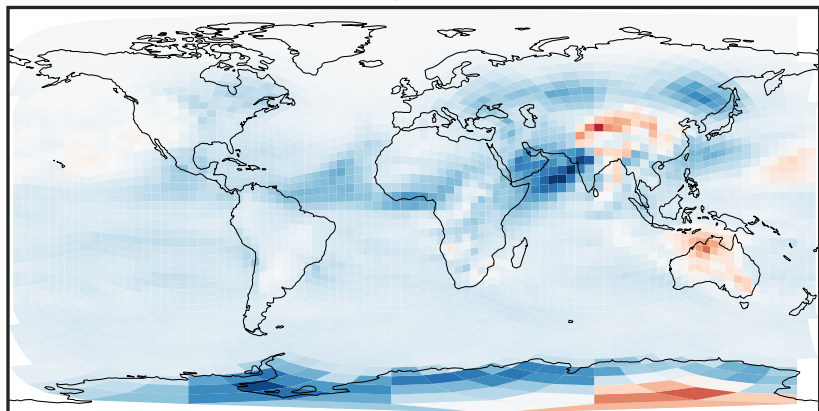
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



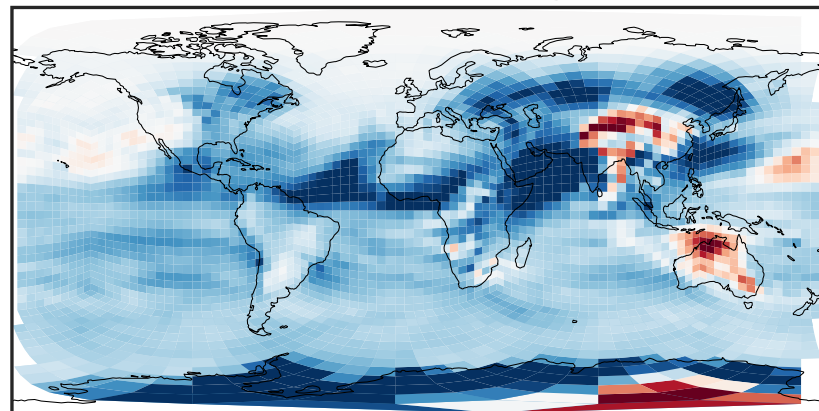
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



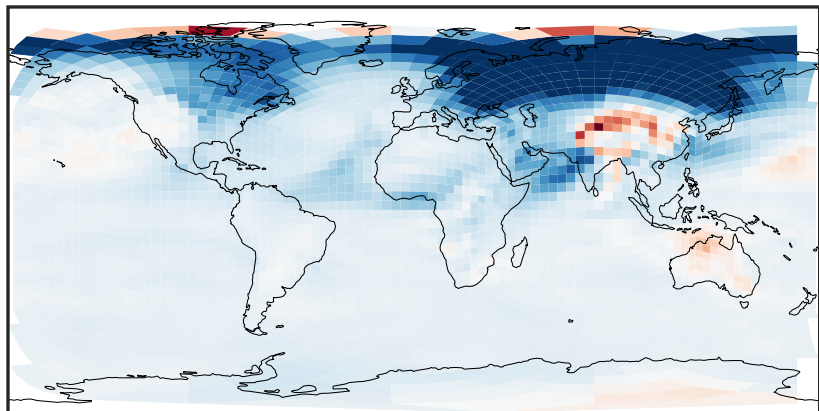
-4 0 4
s-1 $1e-7$

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



-2 0 2
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.98809 0.99405 1.00000 1.00603 1.01205
unitless

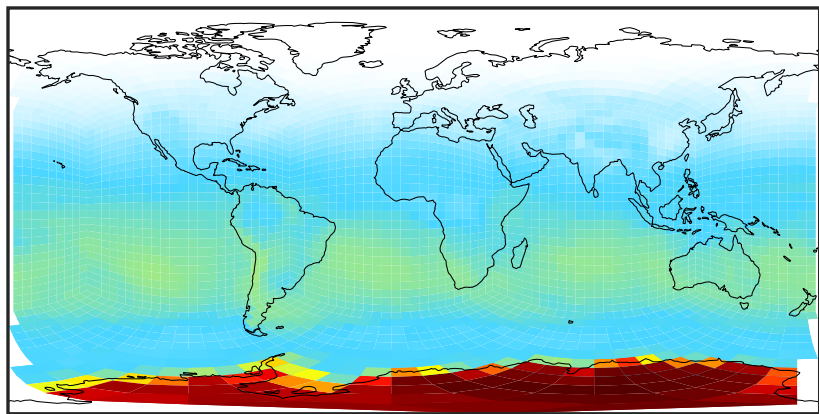
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

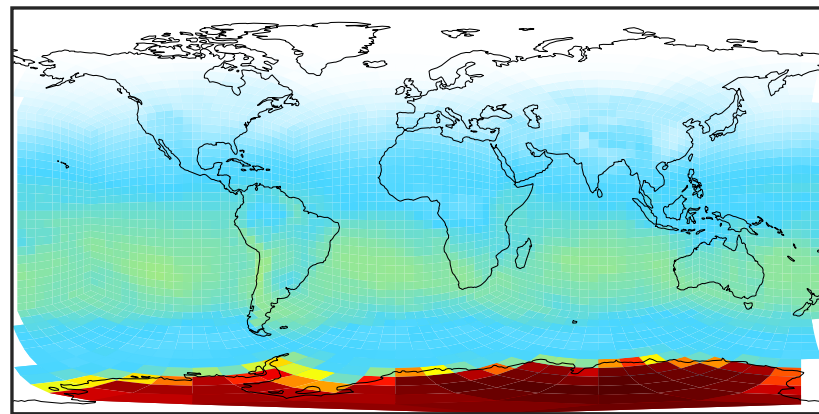
Jval_HPALD2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



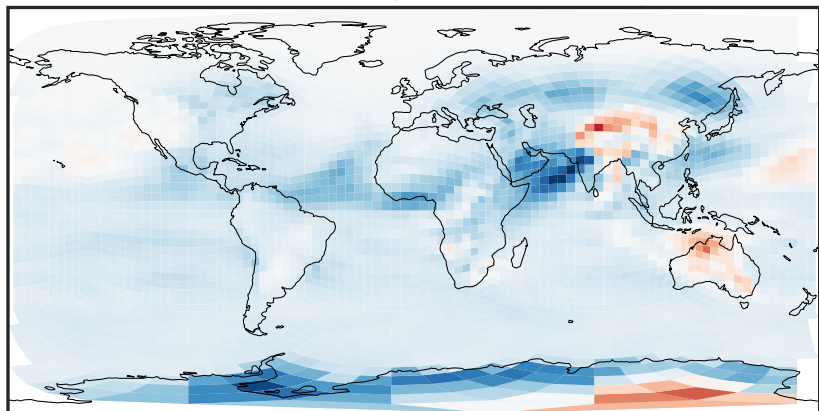
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



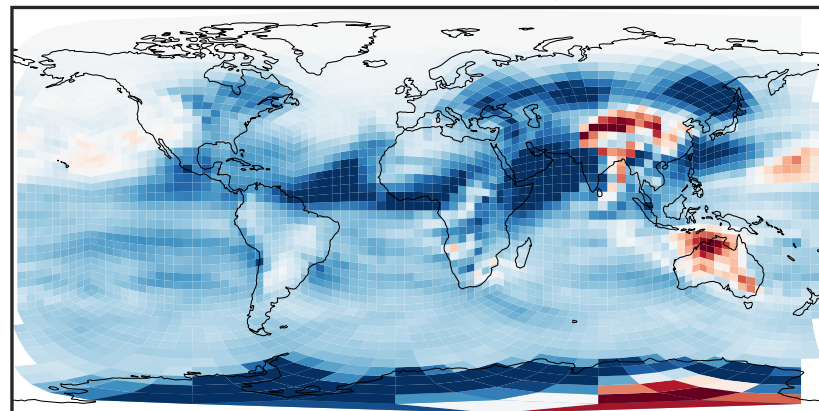
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



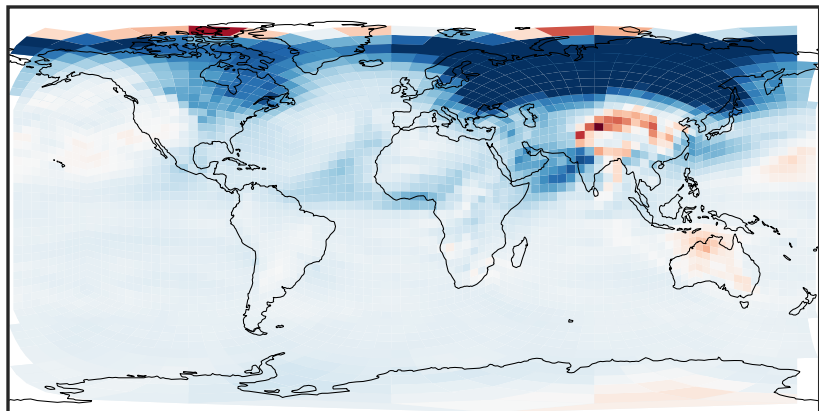
-4 0 4
s-1 $1e-7$

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



-1.5 0.0 1.5
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.98809 0.99404 1.00000 1.00603 1.01205
unitless

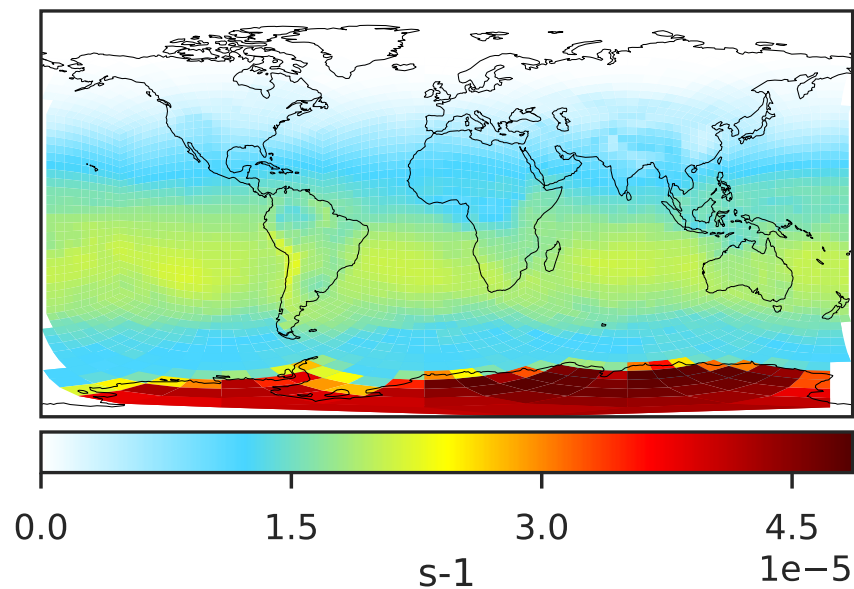
Ratio
Dev/Ref, Fixed Range



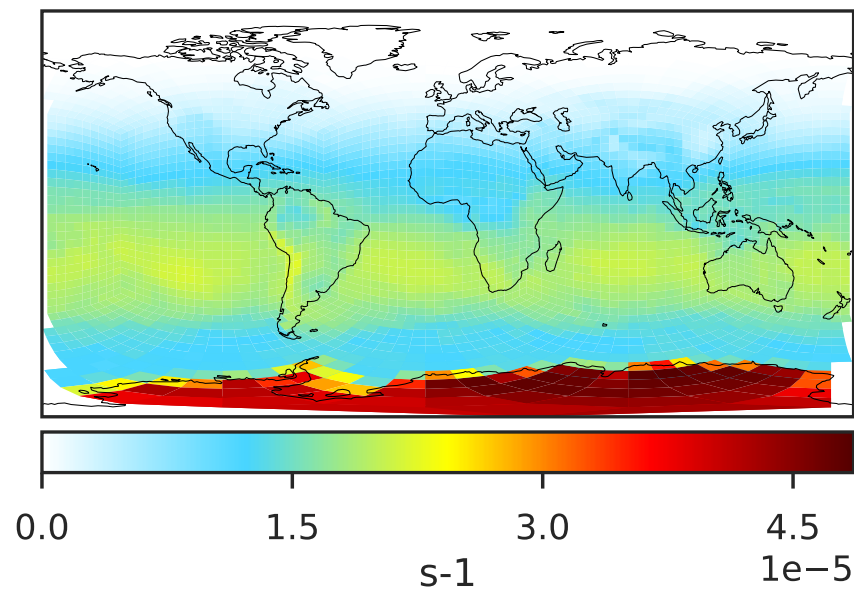
0.50 0.75 1.00 1.50 2.00
unitless

Jval_HPALD3 (Jan2019)

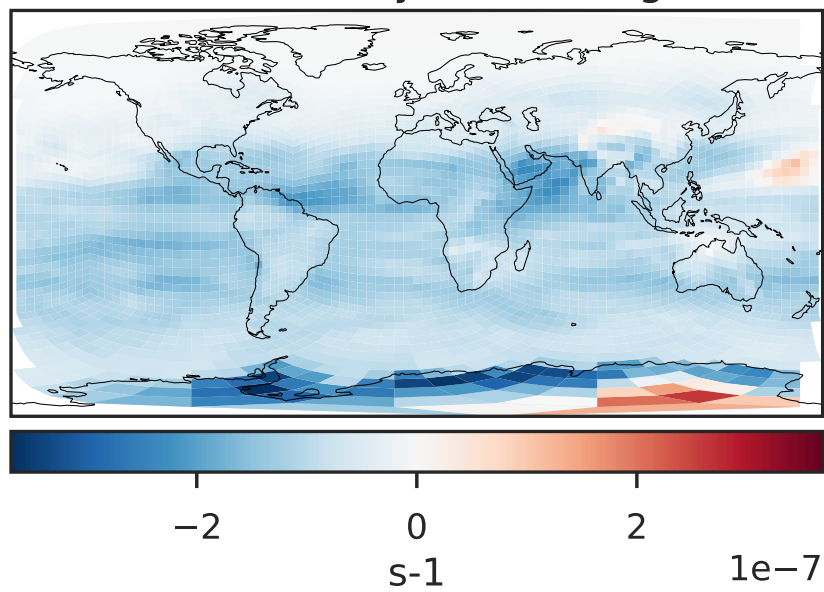
GCHP_14.0.0 (Ref)
c24



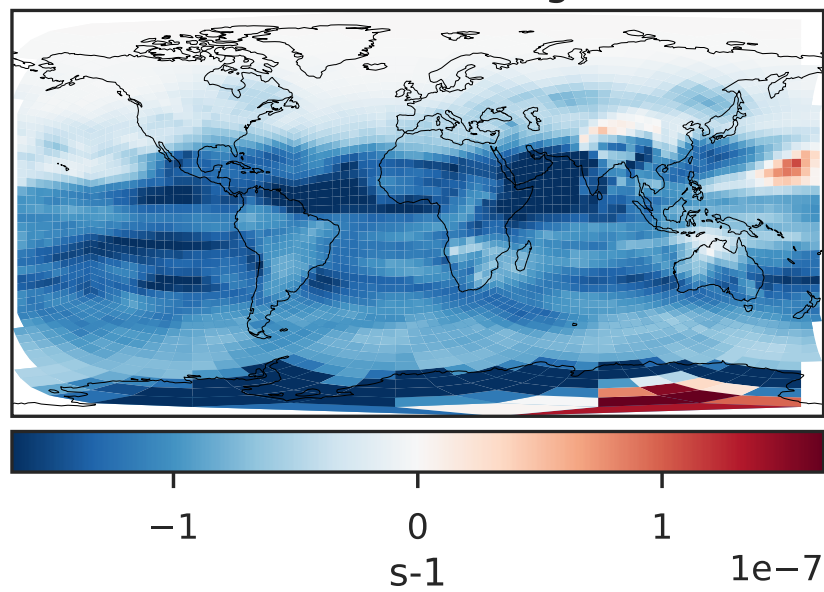
GCHP_14.2.0 (Dev)
c24



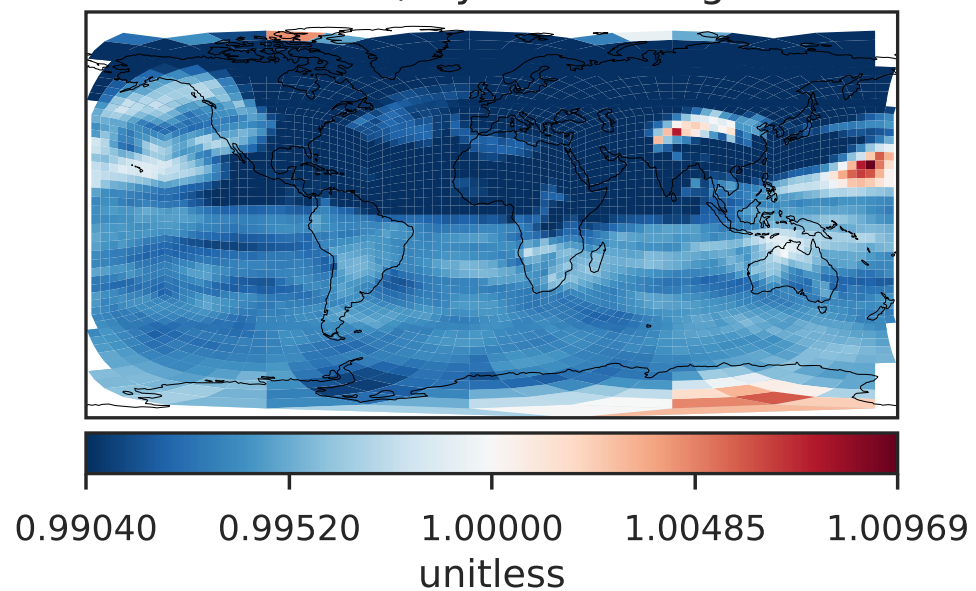
Difference
Dev - Ref, Dynamic Range



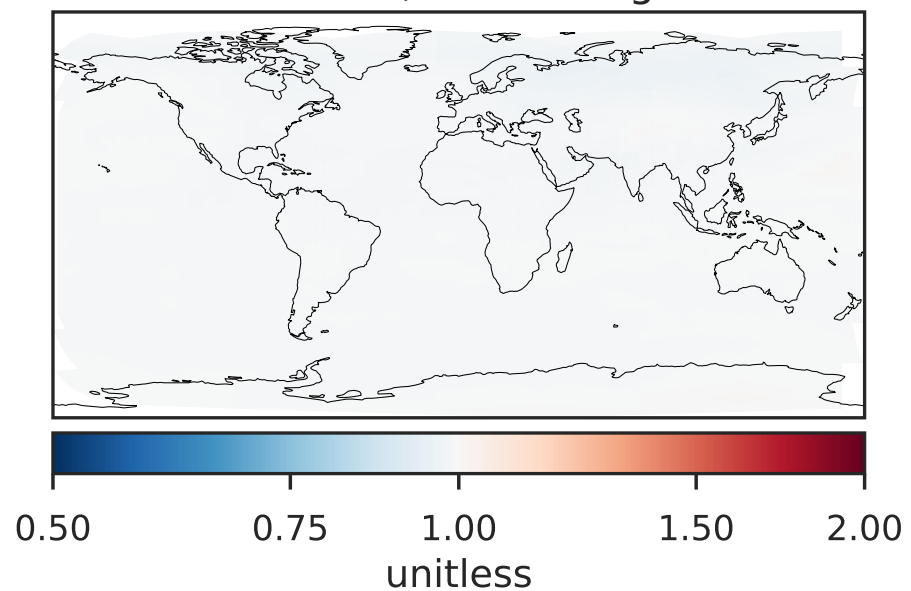
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

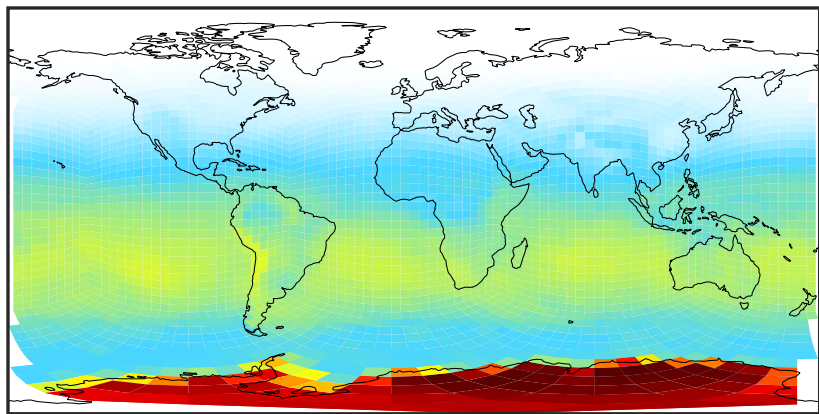


Ratio
Dev/Ref, Fixed Range



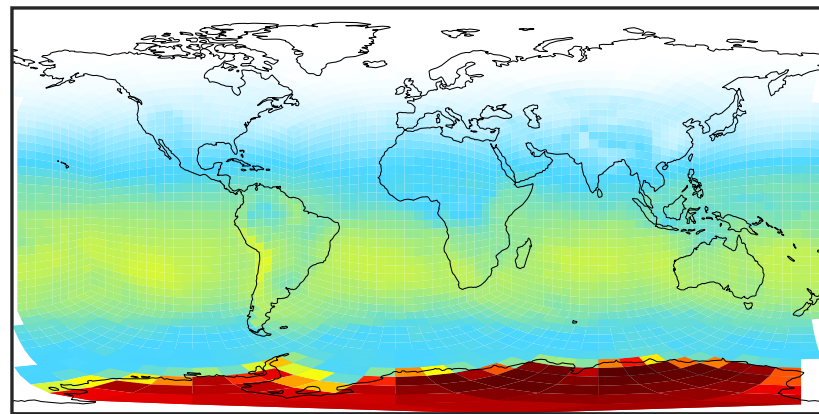
Jval_HPALD4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



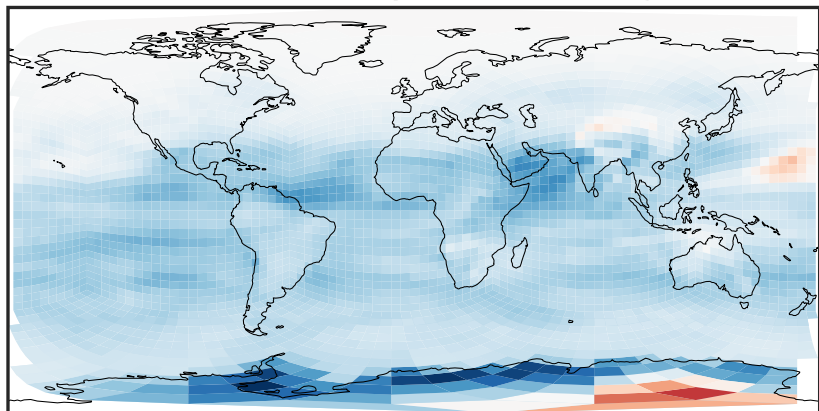
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



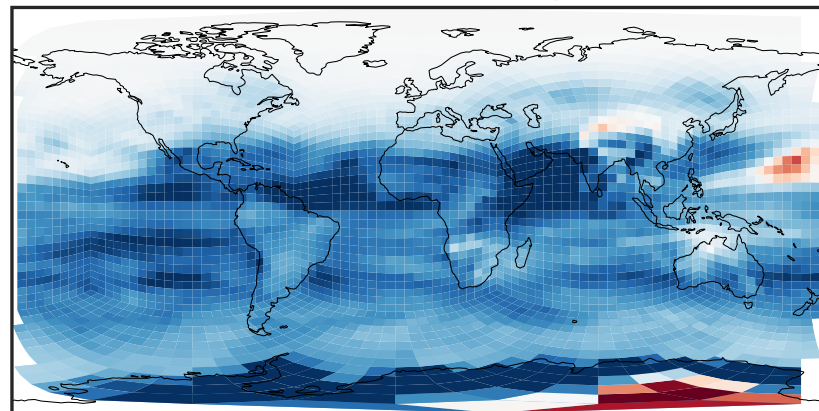
0.0 1.5 3.0 4.5
s-1 $1e-5$

Difference
Dev - Ref, Dynamic Range



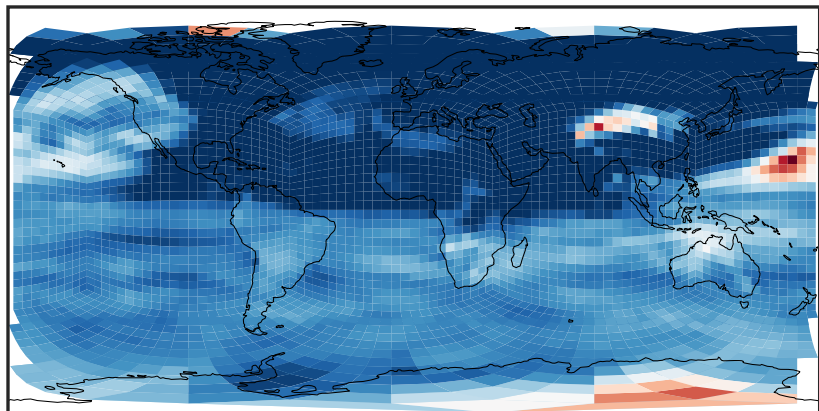
-2 0 2
s-1 $1e-7$

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



-1 0 1
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.99040 0.99520 1.00000 1.00485 1.00969
unitless

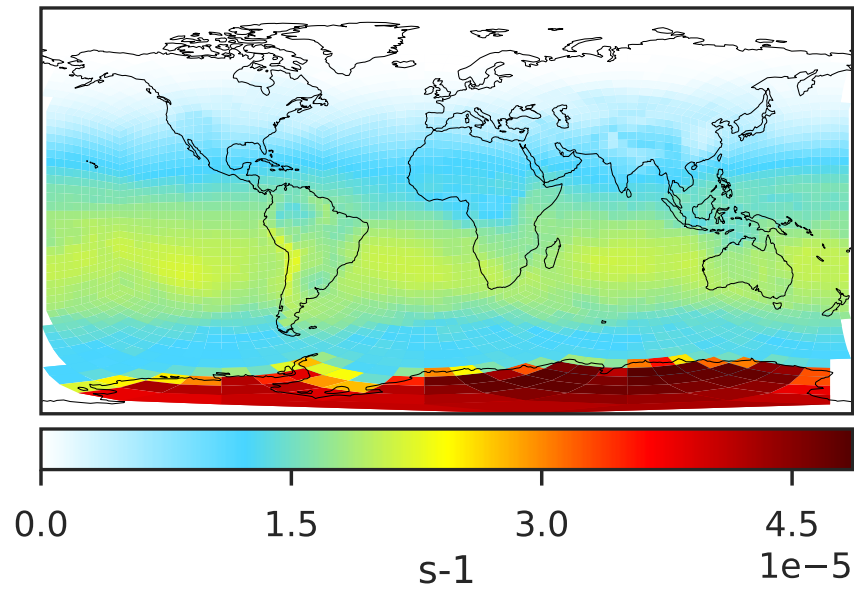
Ratio
Dev/Ref, Fixed Range



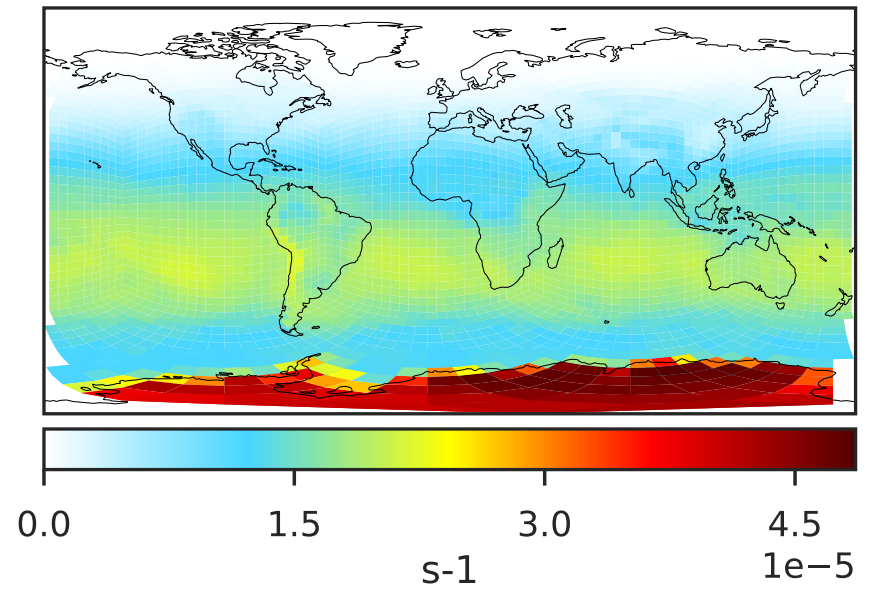
0.50 0.75 1.00 1.50 2.00
unitless

Jval_HPETHNL (Jan2019)

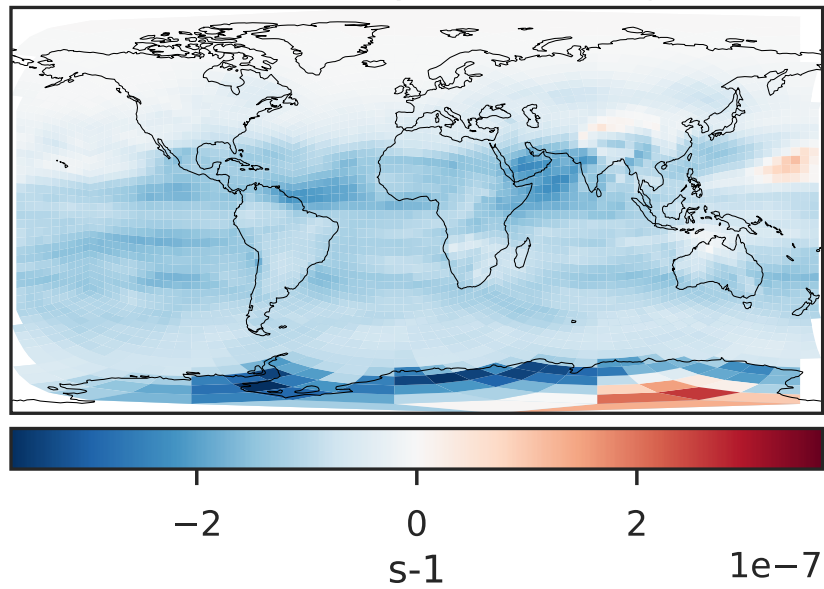
GCHP_14.0.0 (Ref)
c24



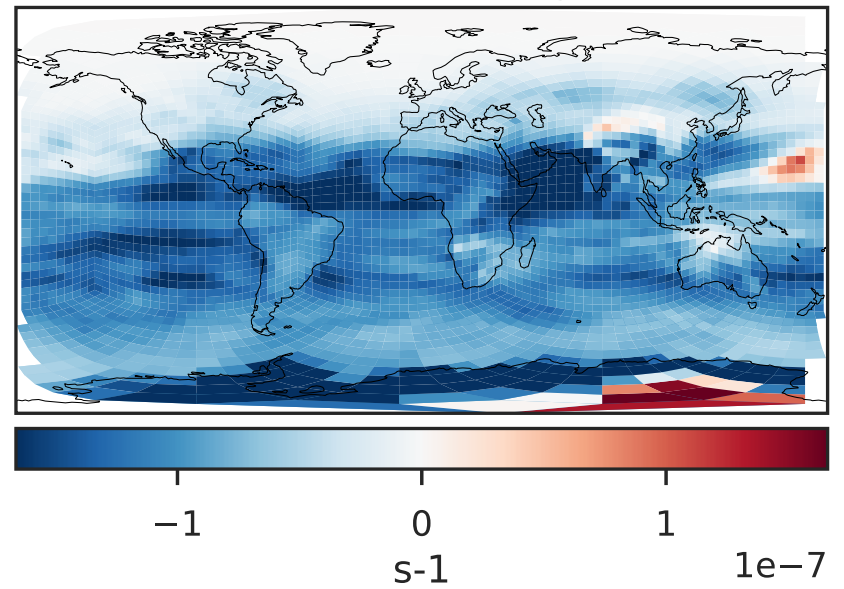
GCHP_14.2.0 (Dev)
c24



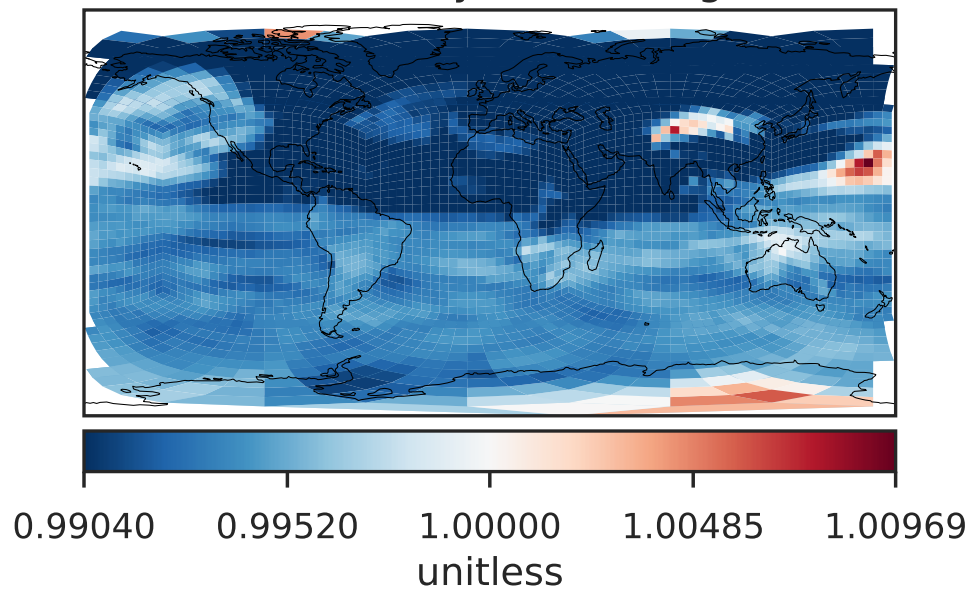
Difference
Dev - Ref, Dynamic Range



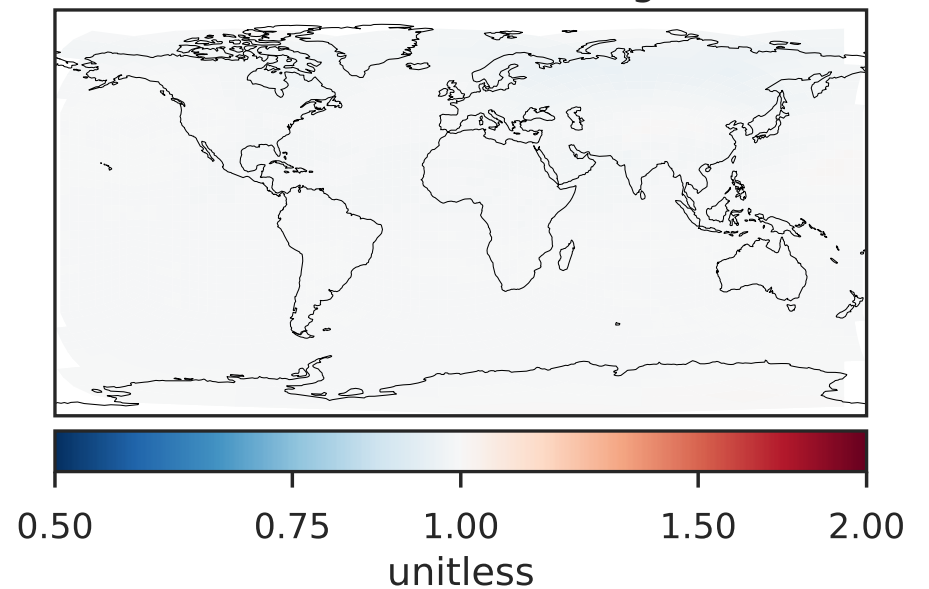
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

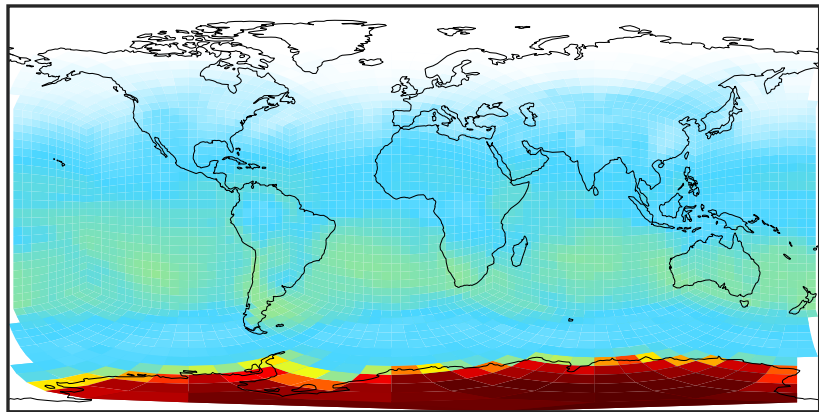


Ratio
Dev/Ref, Fixed Range



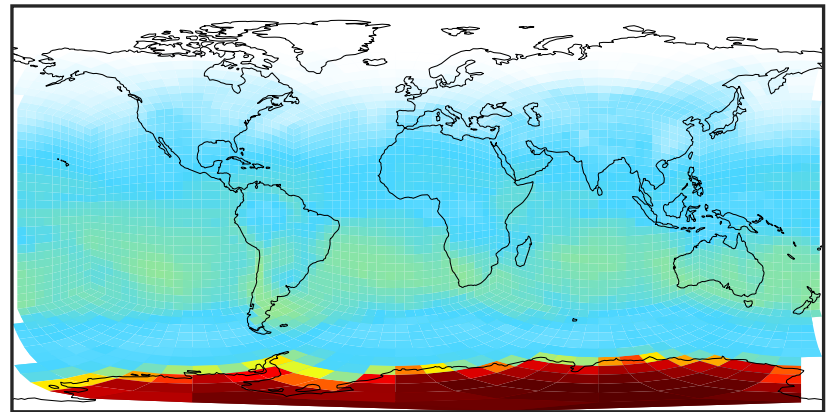
Jval_I2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



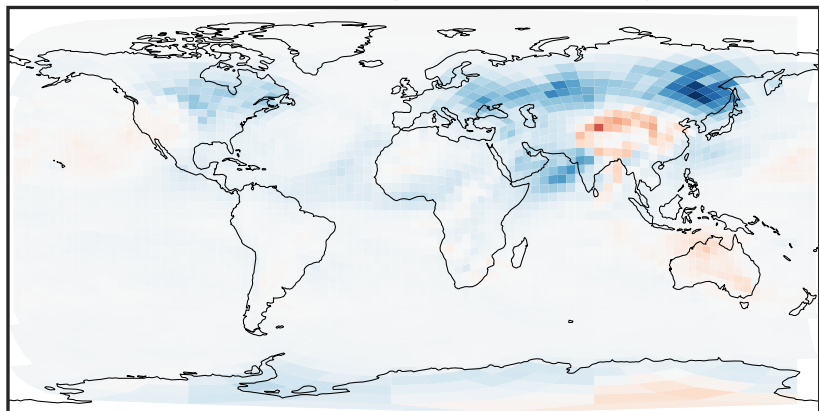
0.000 0.071 0.142 0.213 0.284
s-1

GCHP_14.2.0 (Dev)
c24



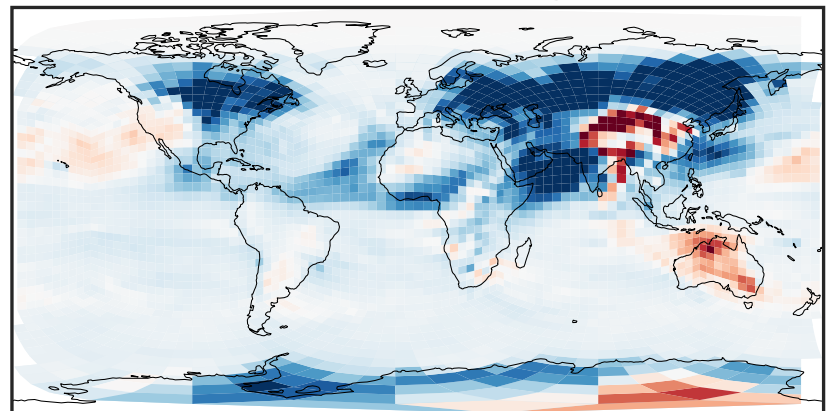
0.000 0.071 0.142 0.213 0.284
s-1

Difference
Dev - Ref, Dynamic Range



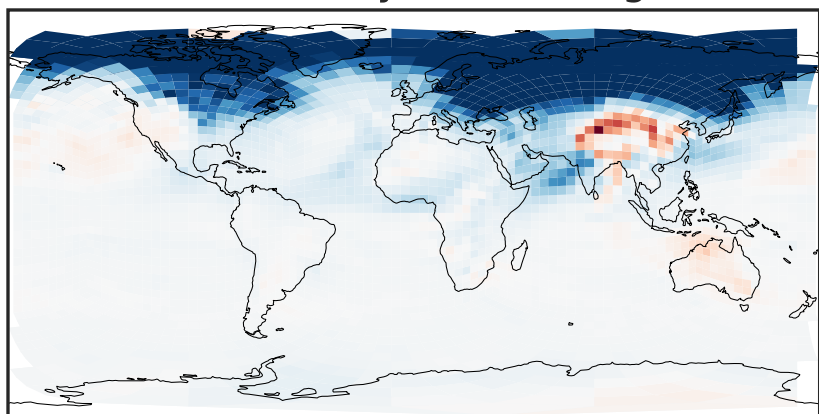
-0.0004 0.0000 0.0004
s-1

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



-0.0001 0.0000 0.0001
s-1

Ratio
Dev/Ref, Dynamic Range



0.99074 0.99537 1.00000 1.00467 1.00934
unitless

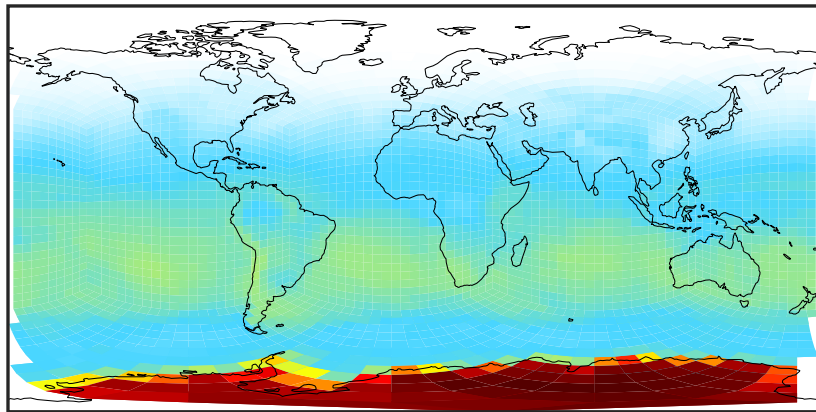
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

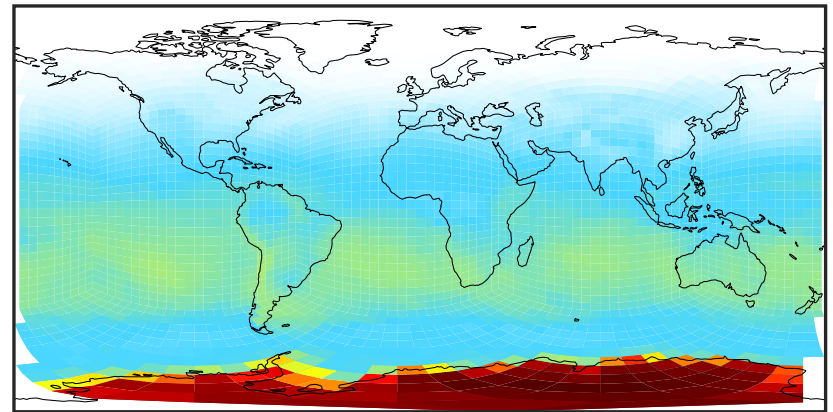
Jval_I2O2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



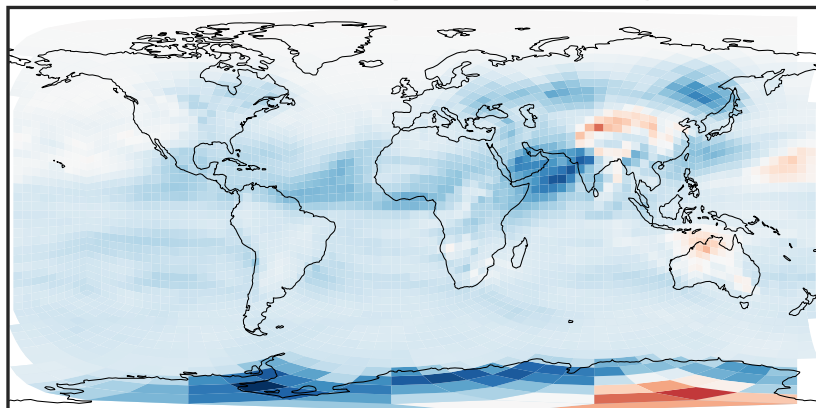
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



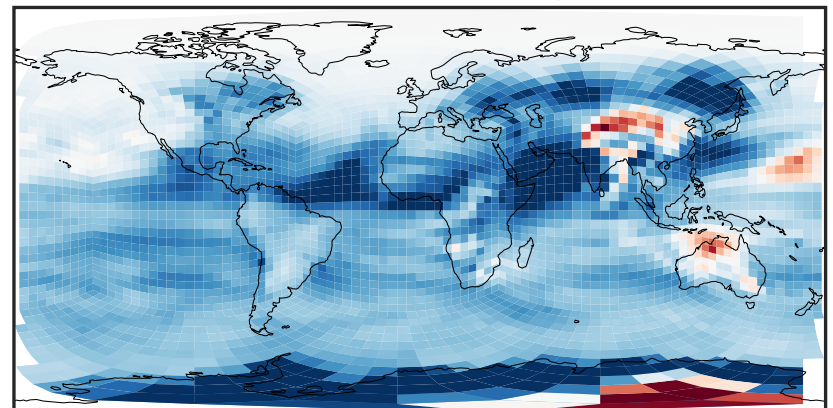
0.000 0.015 0.030 0.045
s-1

Difference
Dev - Ref, Dynamic Range



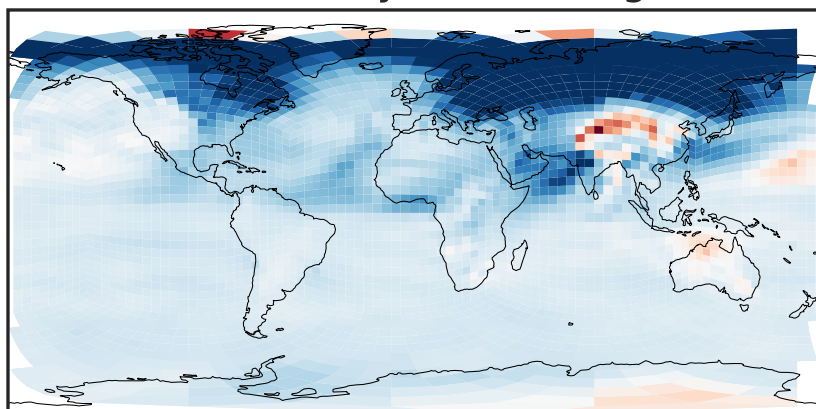
-8 0 8
s-1 1e-5

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



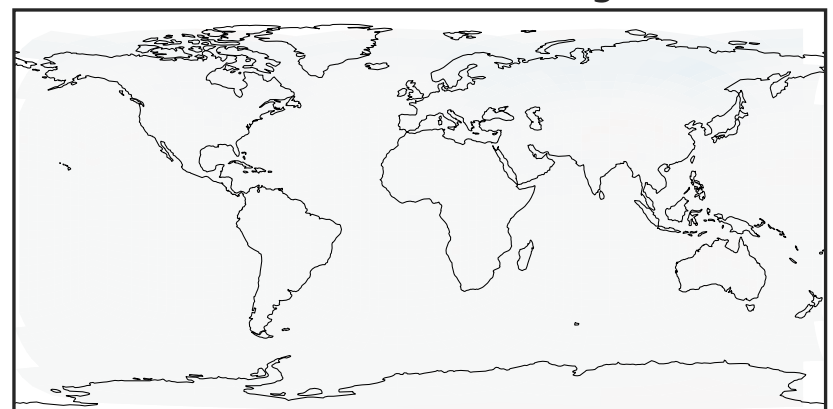
-4 0 4
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98982 0.99491 1.00000 1.00514 1.01028
unitless

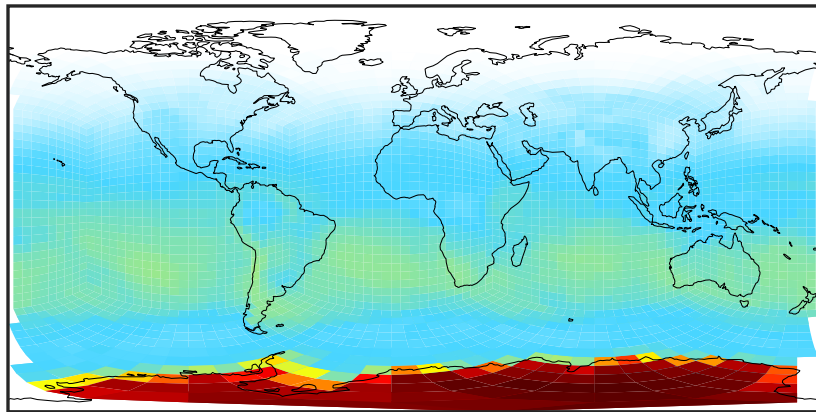
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

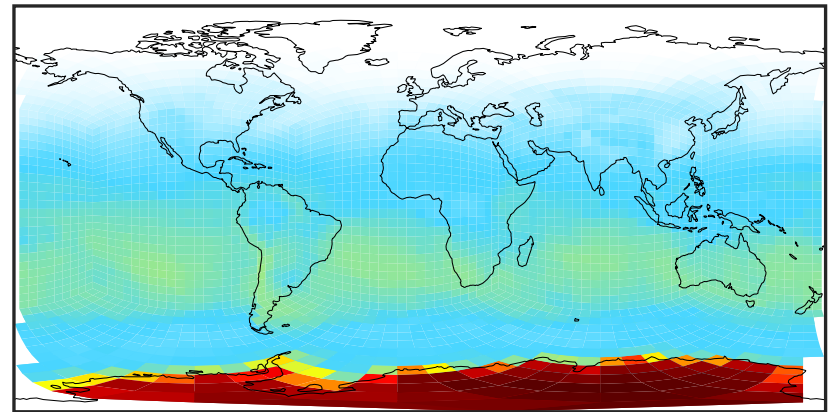
Jval_I2O3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



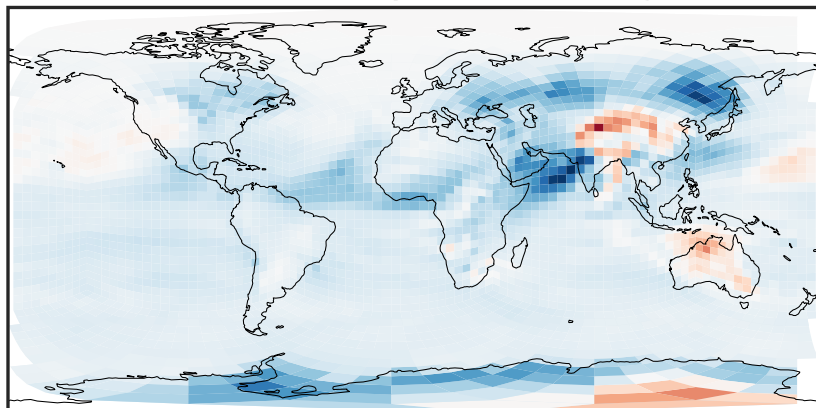
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



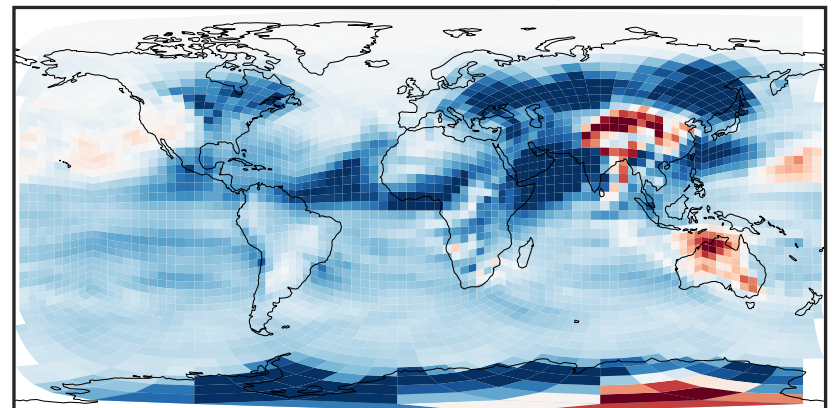
0.000 0.015 0.030 0.045
s-1

Difference
Dev - Ref, Dynamic Range



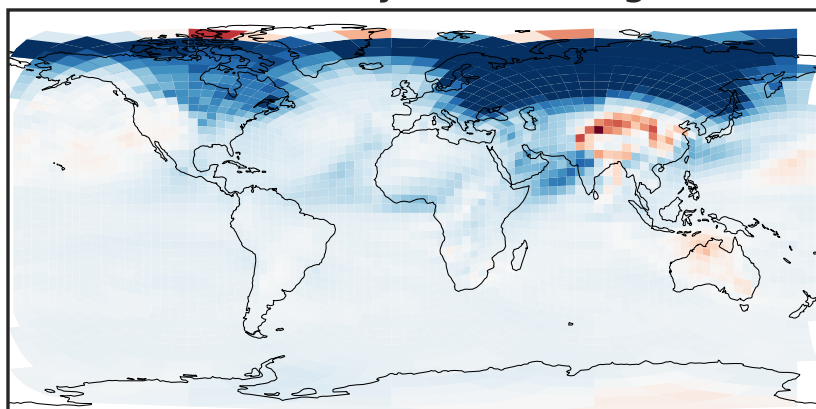
-5 0 5
s-1 1e-5

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



-2 0 2
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98917 0.99458 1.00000 1.00548 1.01095
unitless

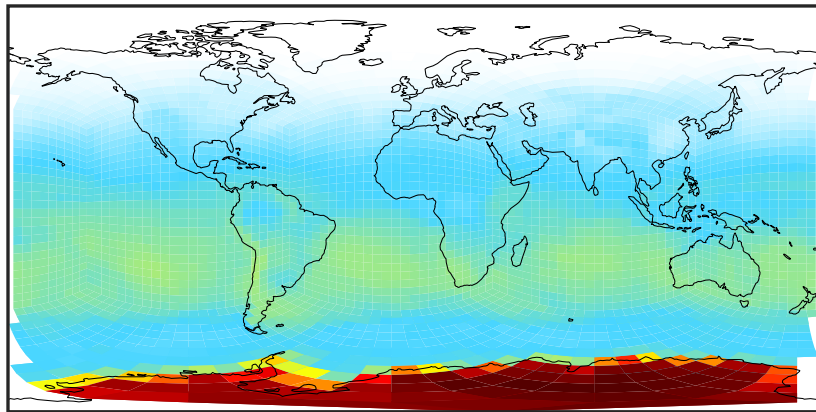
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

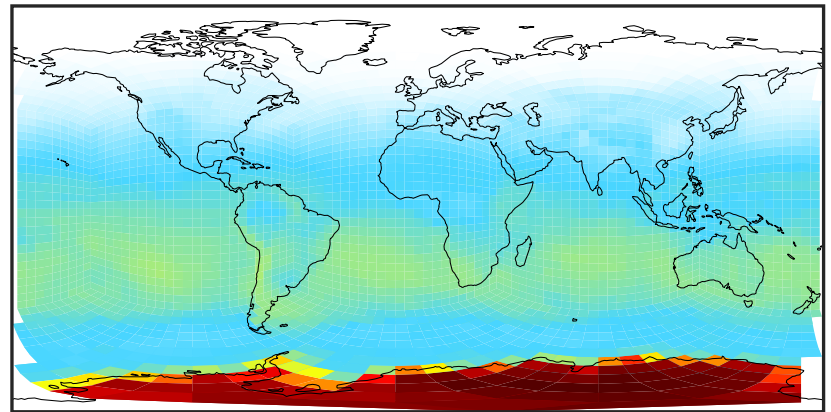
Jval_I2O4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



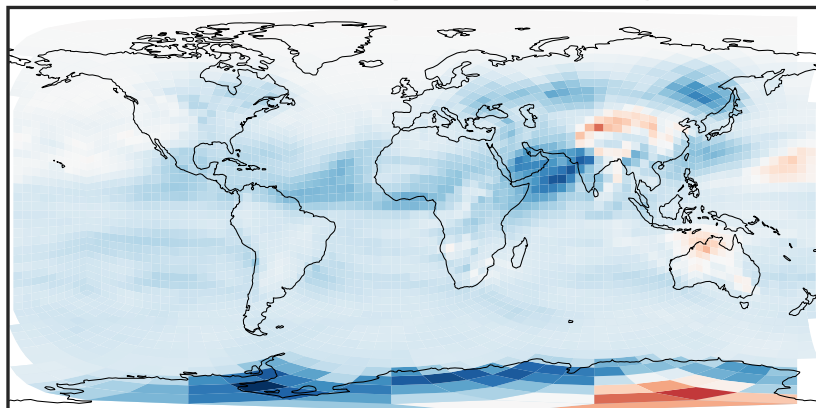
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



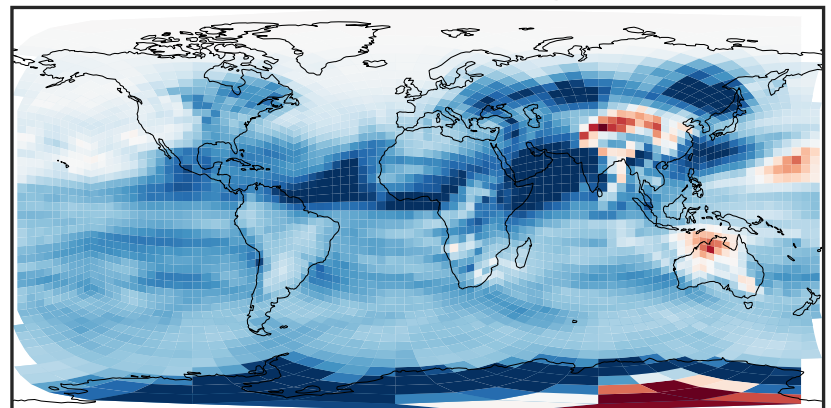
0.000 0.015 0.030 0.045
s-1

Difference
Dev - Ref, Dynamic Range



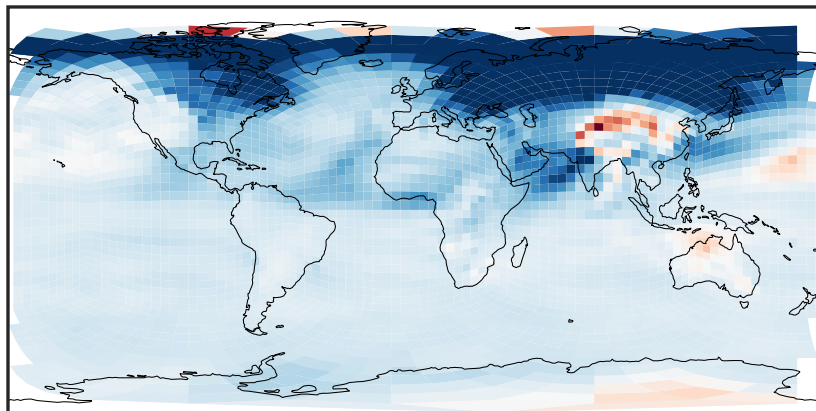
-8 0 8
s-1 1e-5

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



-4 0 4
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98982 0.99491 1.00000 1.00514 1.01028
unitless

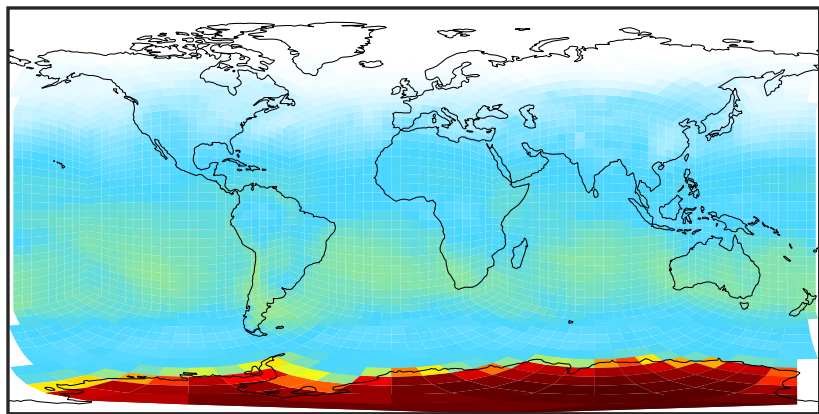
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

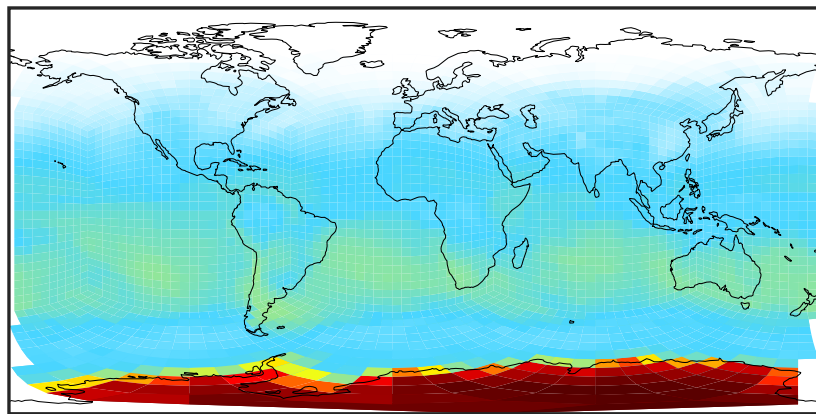
Jval_IBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



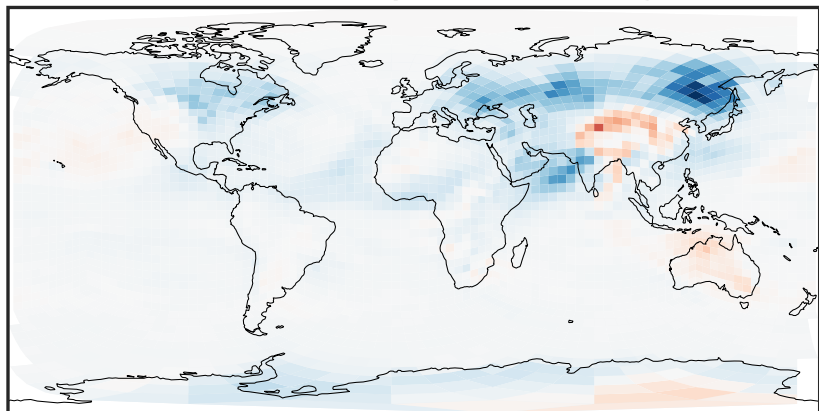
0.0000 0.0297 0.0593 0.0890 0.1186
s-1

GCHP_14.2.0 (Dev)
c24



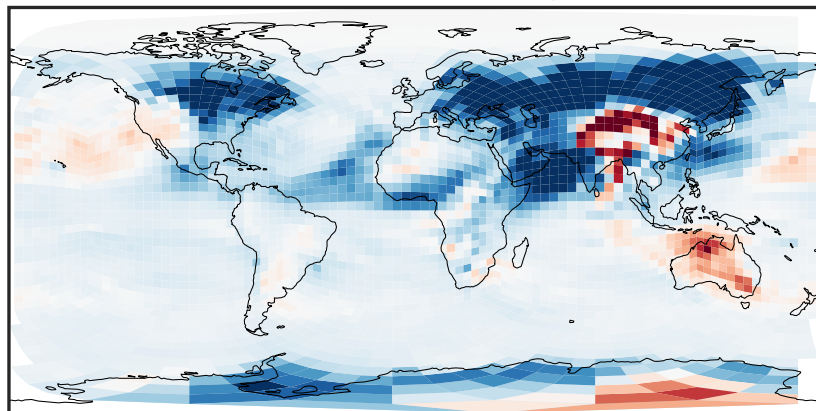
0.0000 0.0297 0.0593 0.0890 0.1186
s-1

Difference
Dev - Ref, Dynamic Range



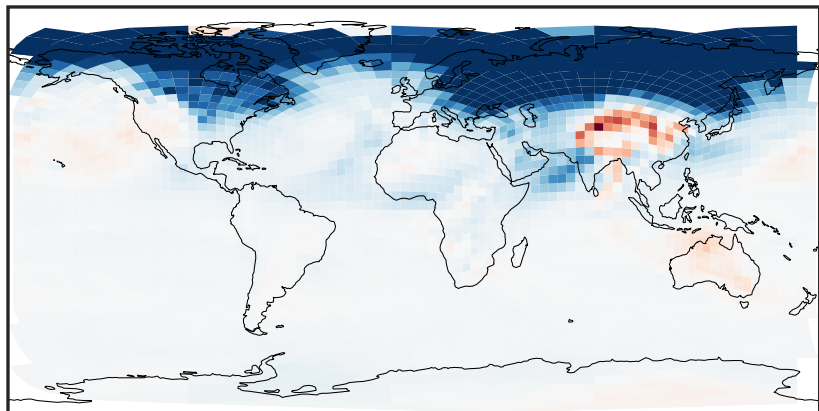
-0.0002 0.0000 0.0002
s-1

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



-4 0 4
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.99071 0.99535 1.00000 1.00469 1.00938
unitless

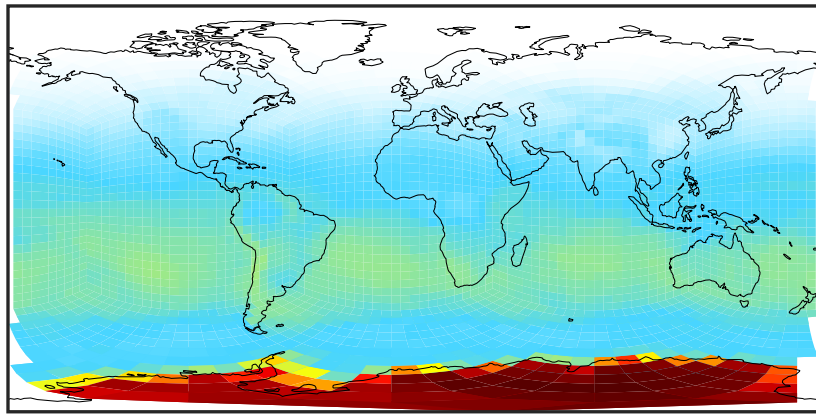
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

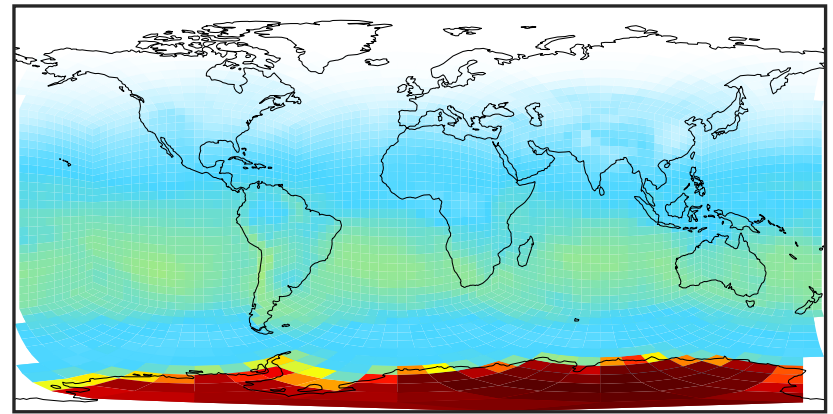
Jval_ICN (Jan2019)

GCHP_14.0.0 (Ref)
c24



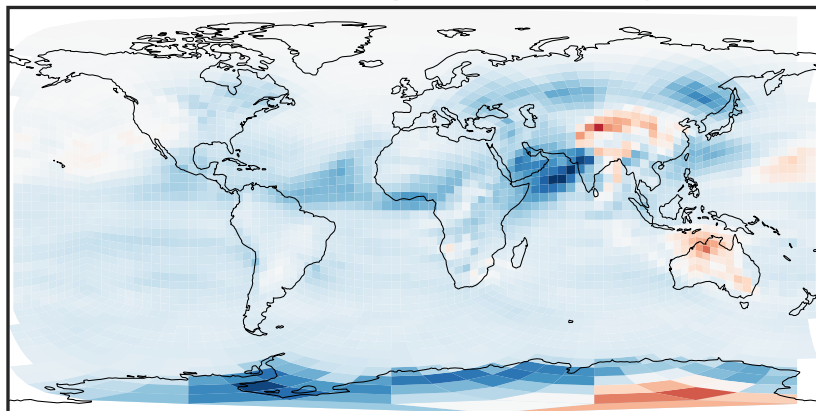
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



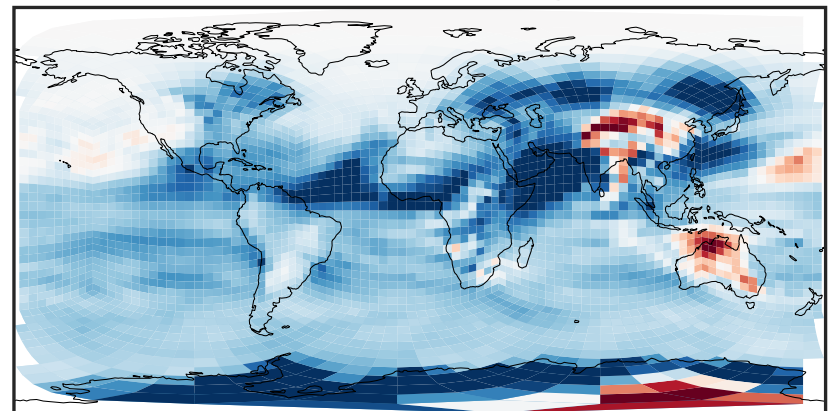
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



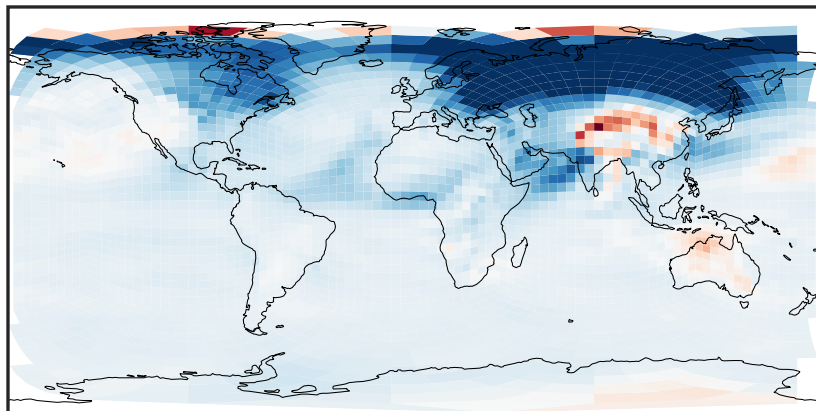
-4 0 4
s-1 1e-7

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



-2 0 2
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98811 0.99406 1.00000 1.00602 1.01203
unitless

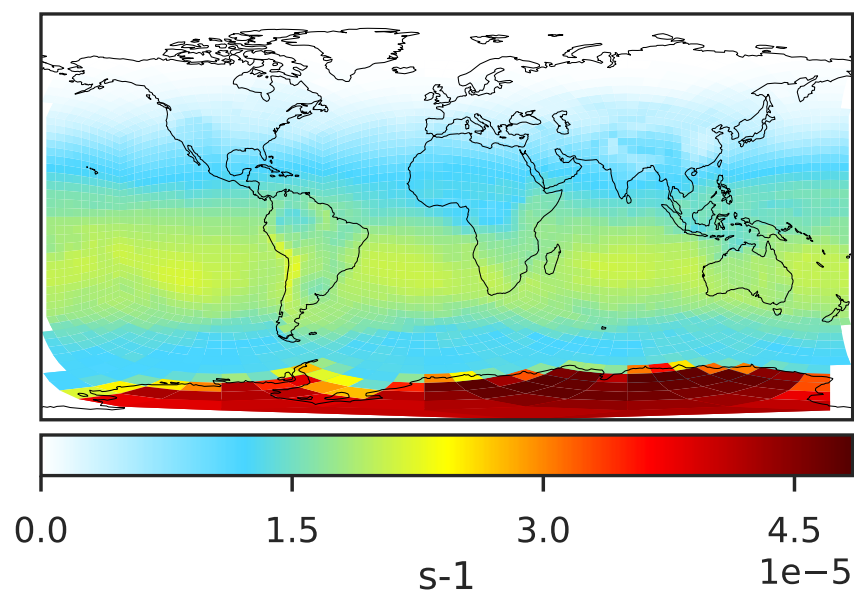
Ratio
Dev/Ref, Fixed Range



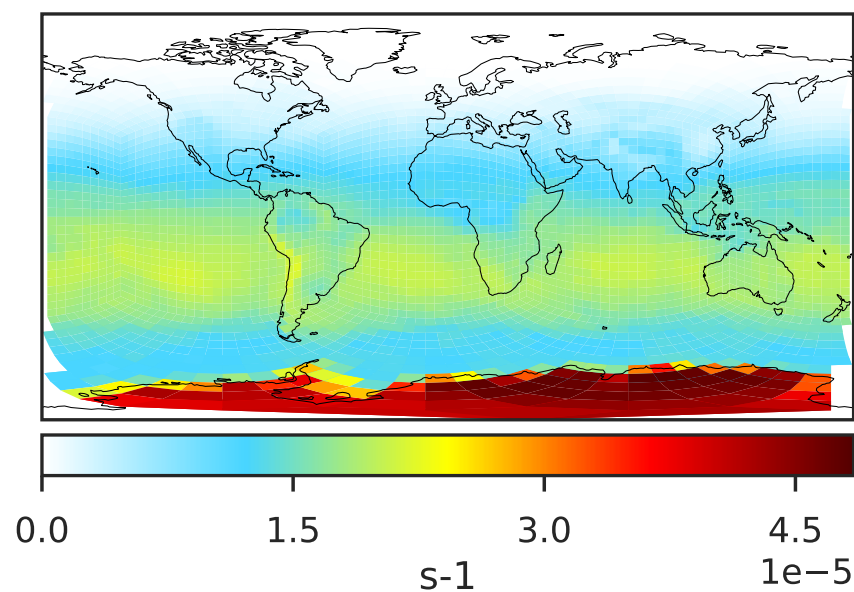
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ICPDH (Jan2019)

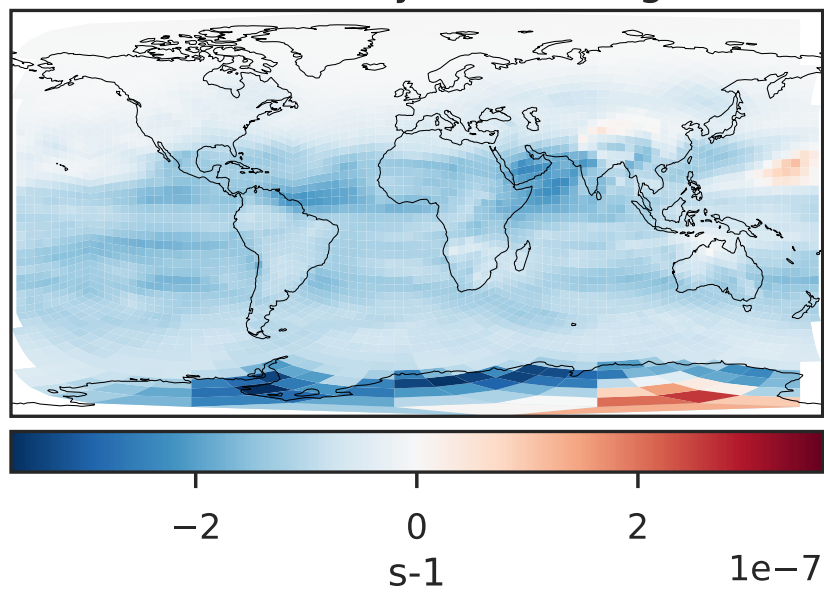
GCHP_14.0.0 (Ref)
c24



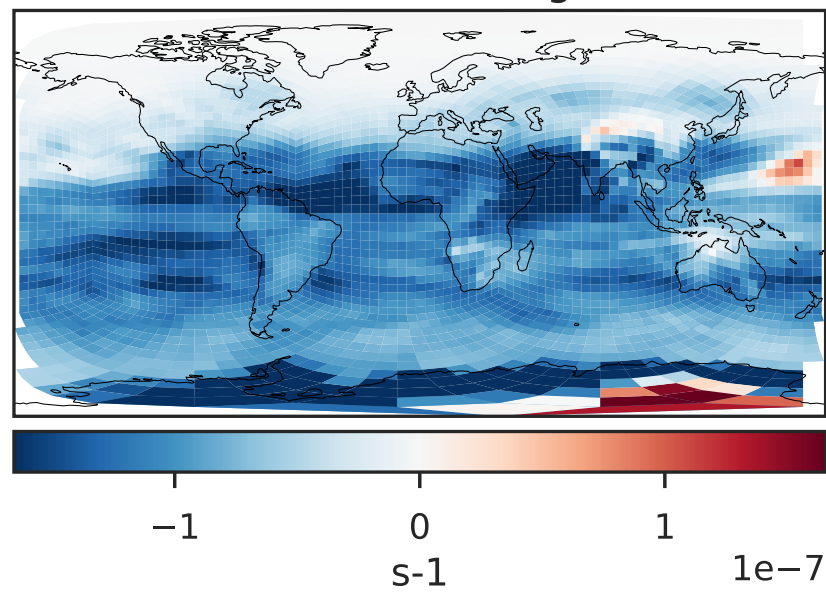
GCHP_14.2.0 (Dev)
c24



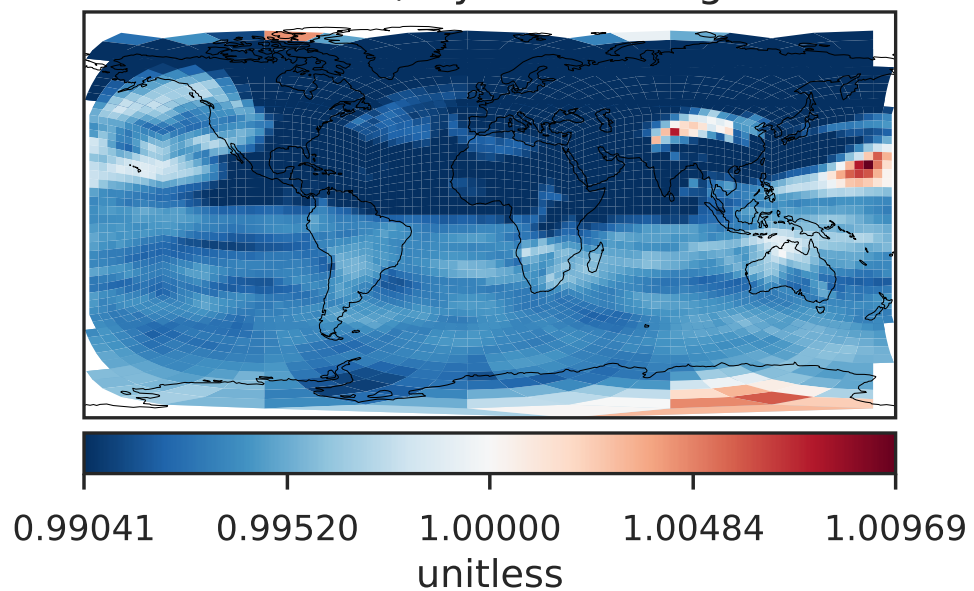
Difference
Dev - Ref, Dynamic Range



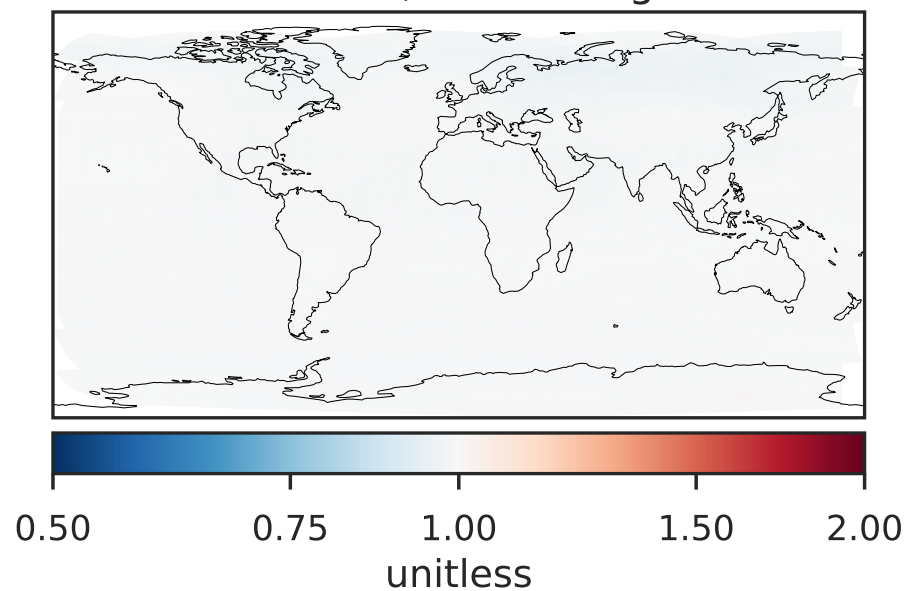
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

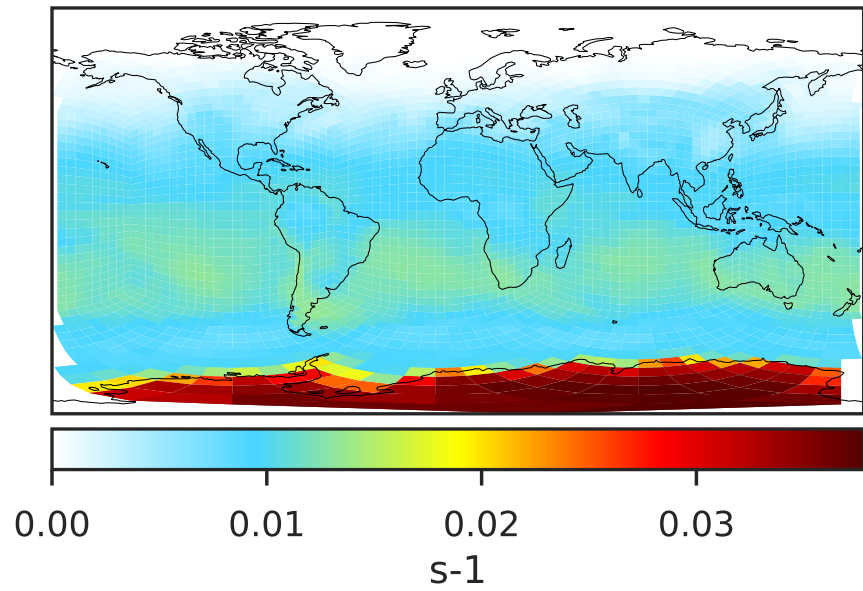


Ratio
Dev/Ref, Fixed Range

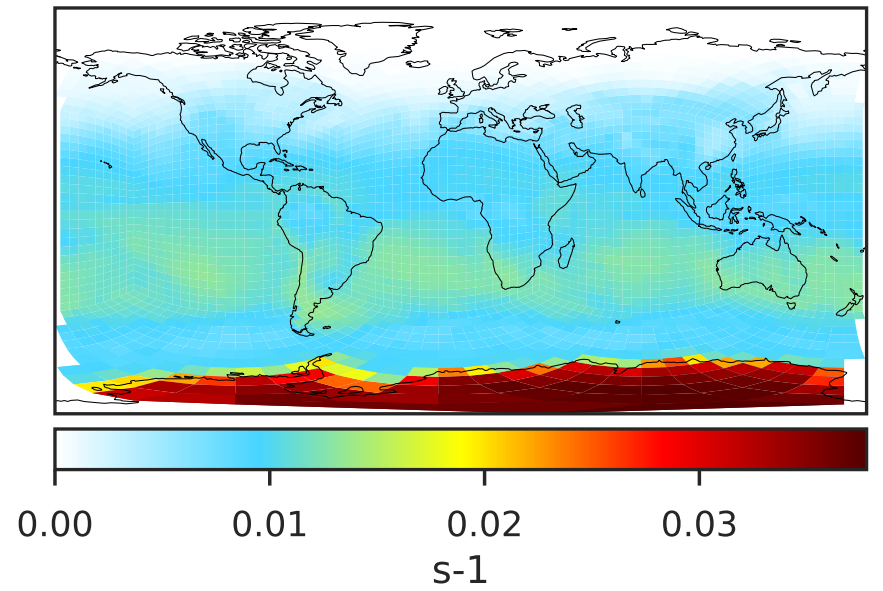


Jval_ICI (Jan2019)

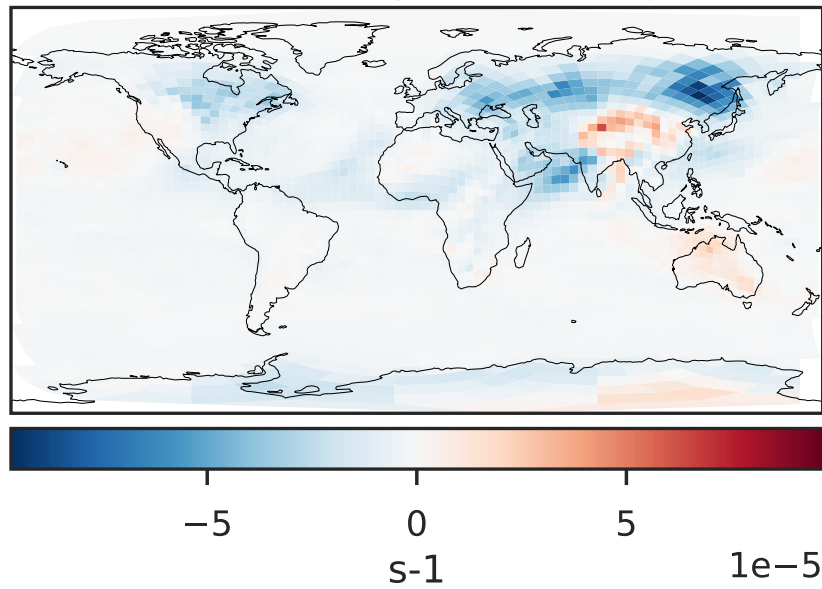
GCHP_14.0.0 (Ref)
c24



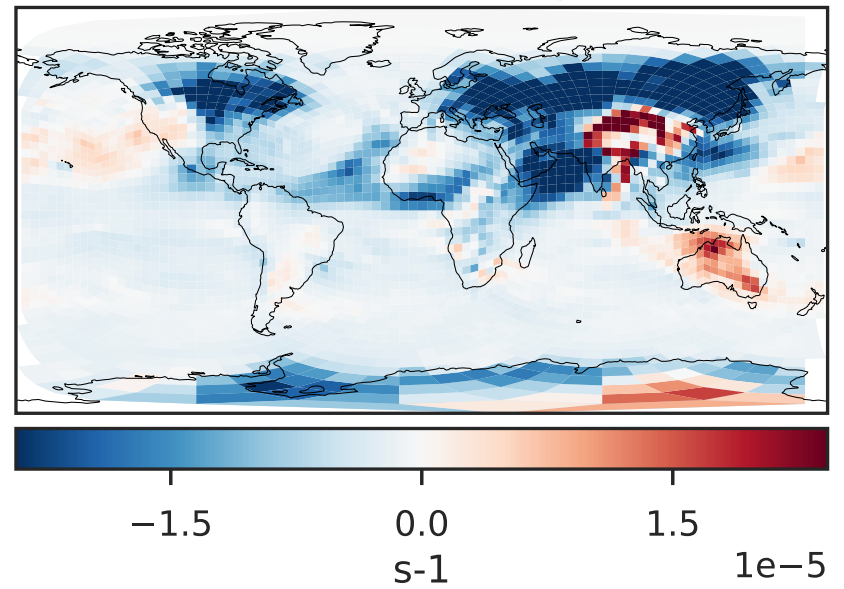
GCHP_14.2.0 (Dev)
c24



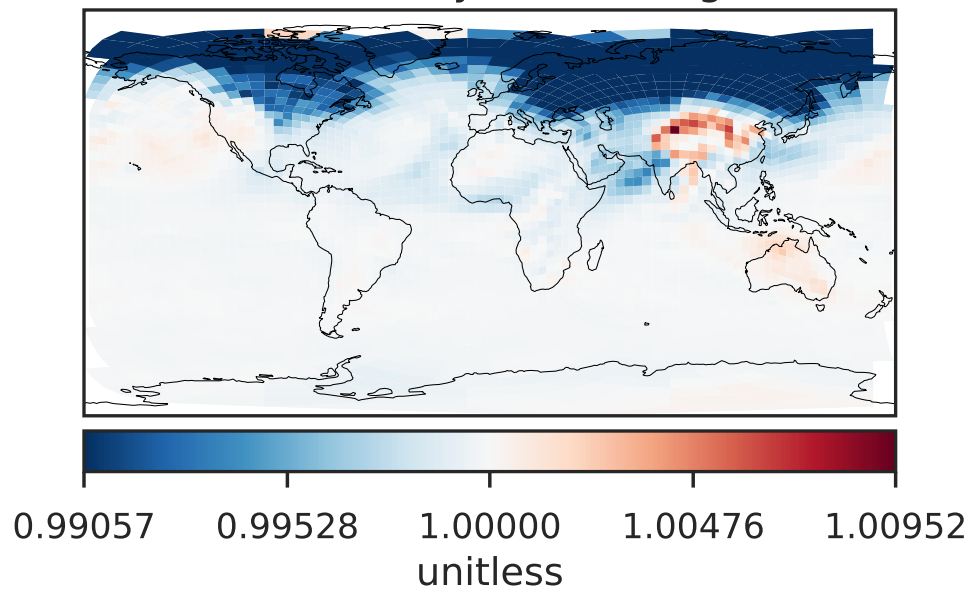
Difference
Dev - Ref, Dynamic Range



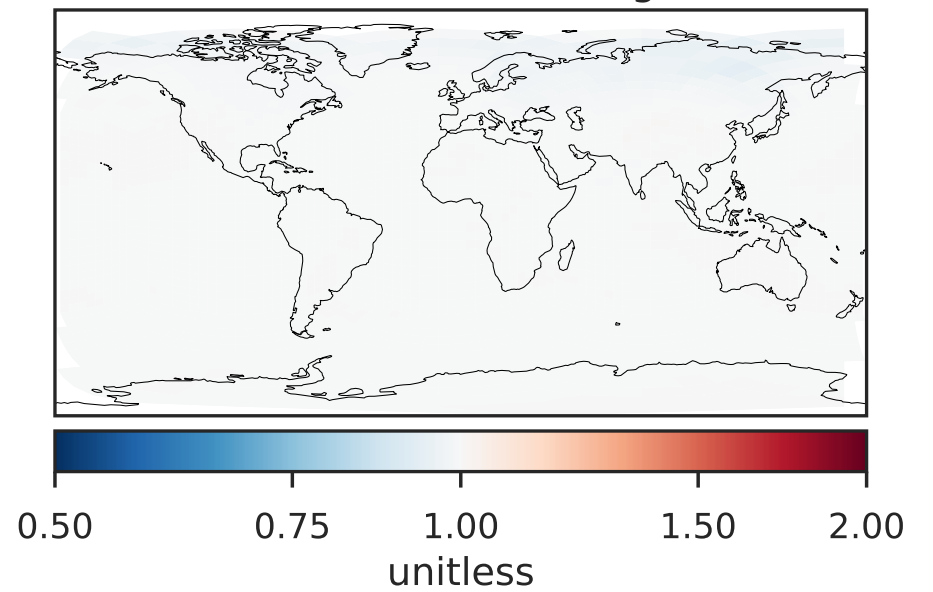
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

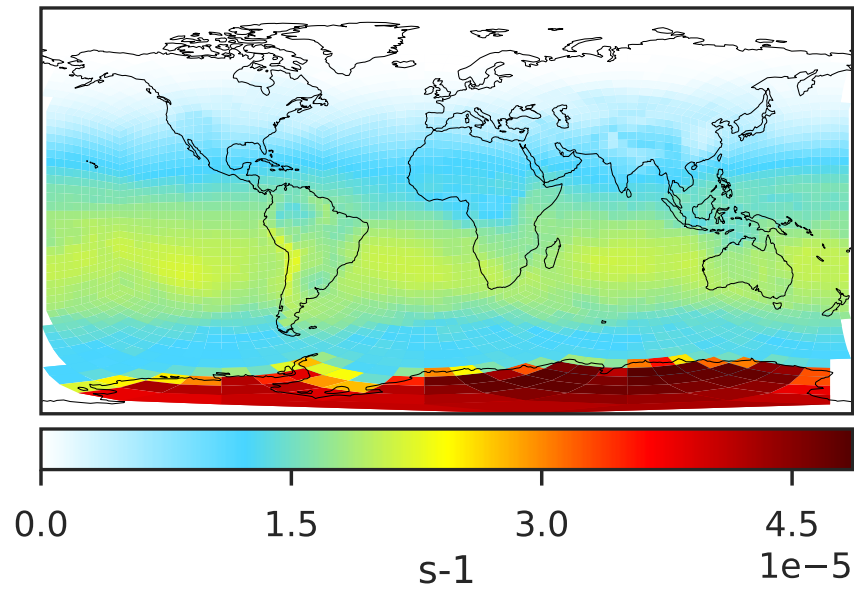


Ratio
Dev/Ref, Fixed Range

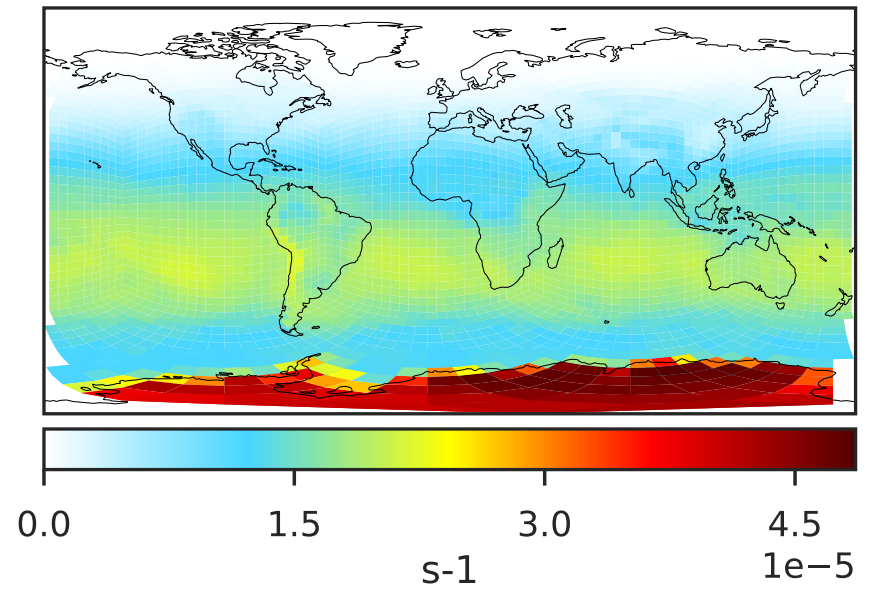


Jval_IDCHP (Jan2019)

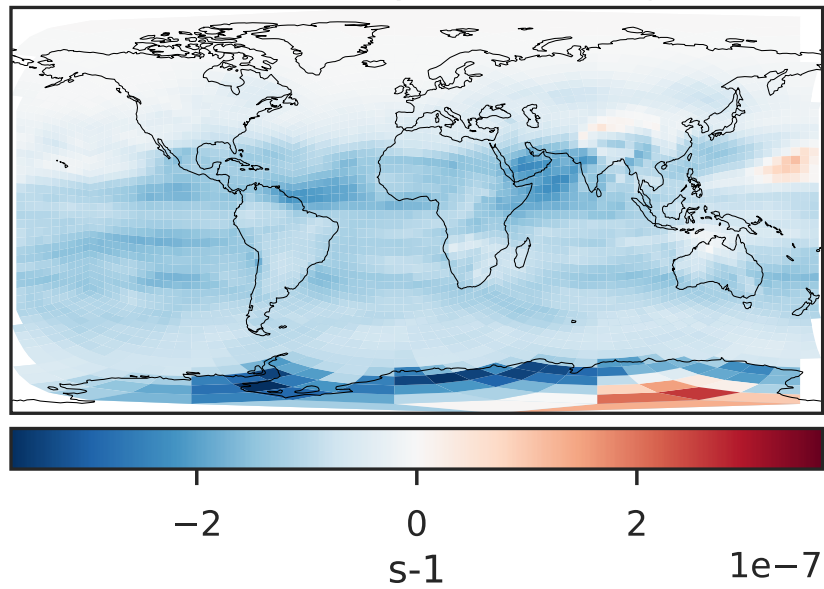
GCHP_14.0.0 (Ref)
c24



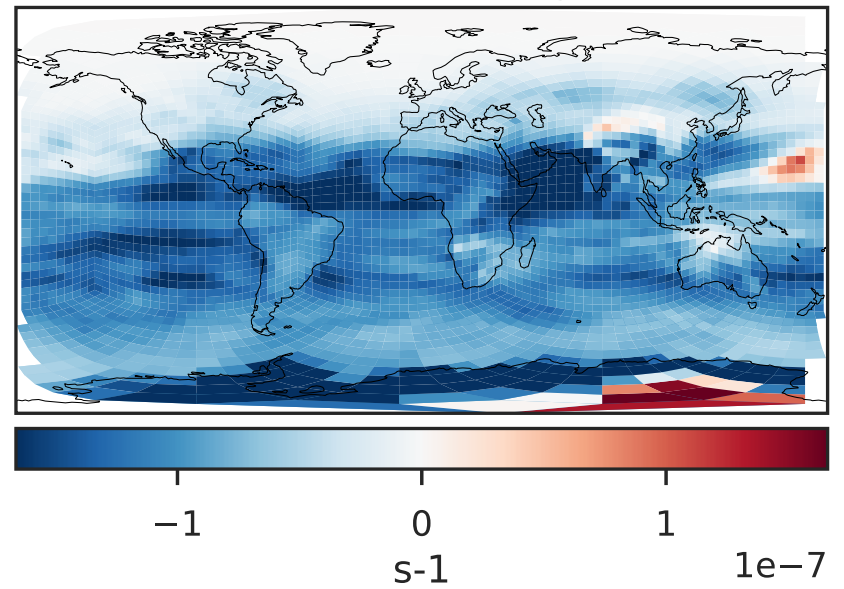
GCHP_14.2.0 (Dev)
c24



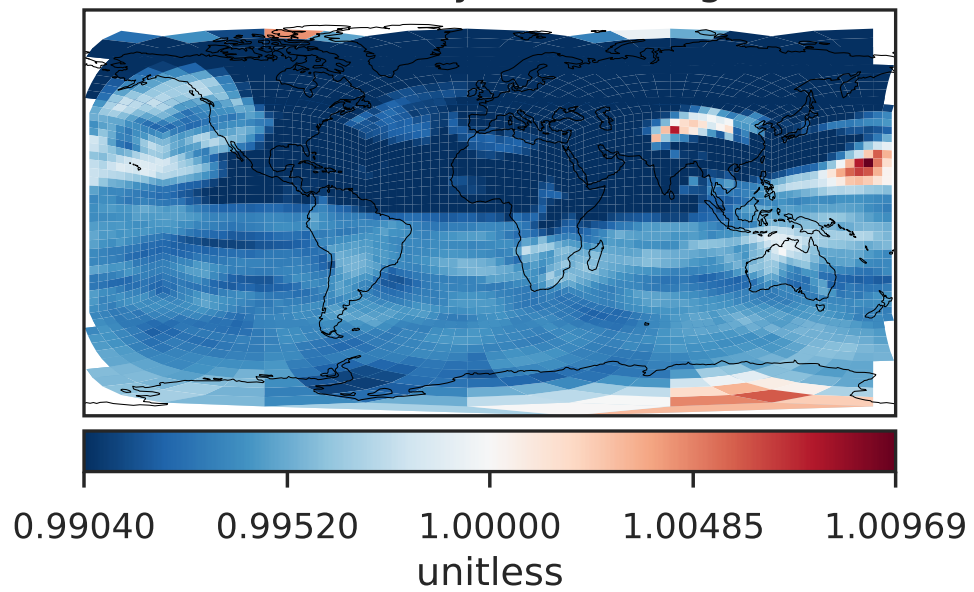
Difference
Dev - Ref, Dynamic Range



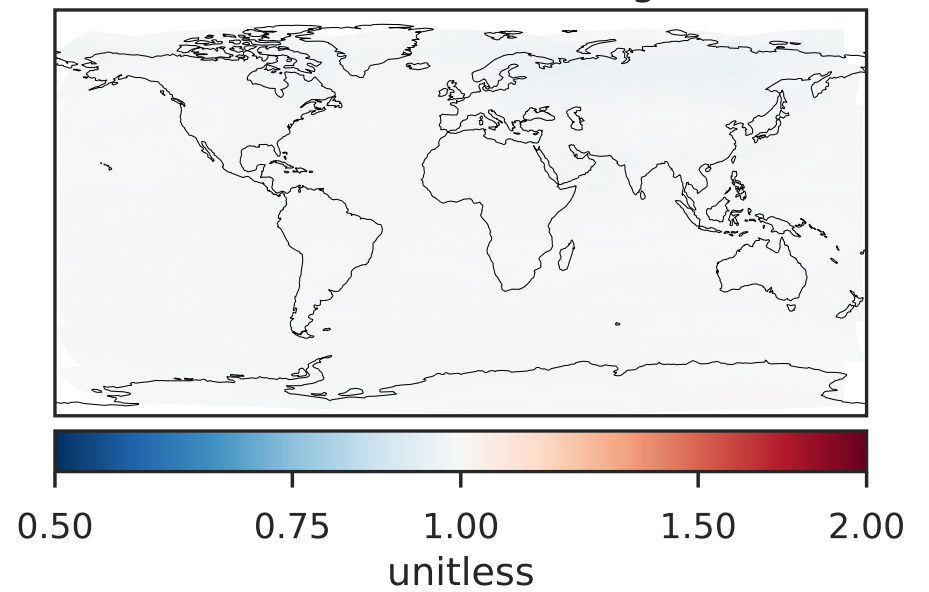
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

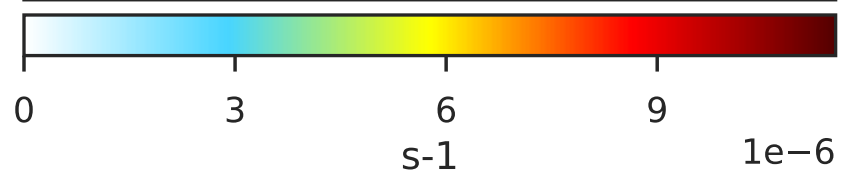
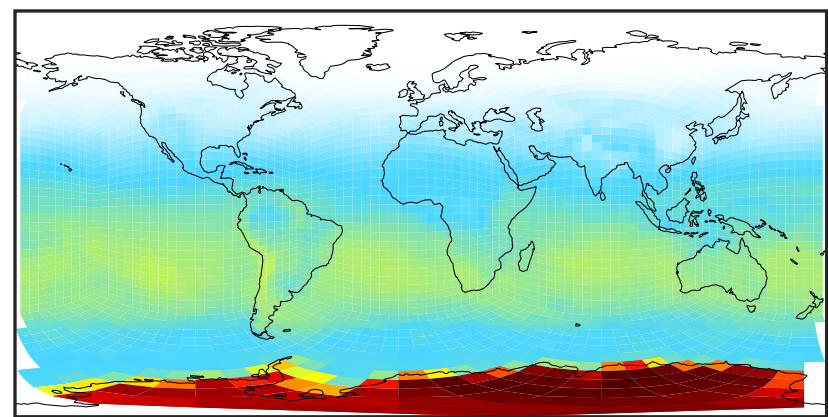


Ratio
Dev/Ref, Fixed Range

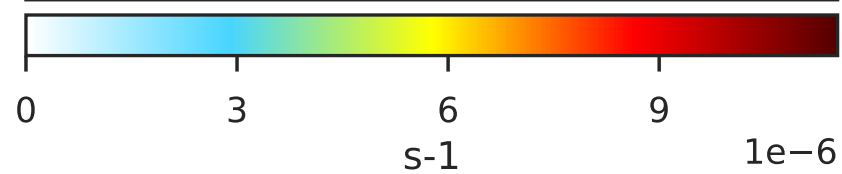
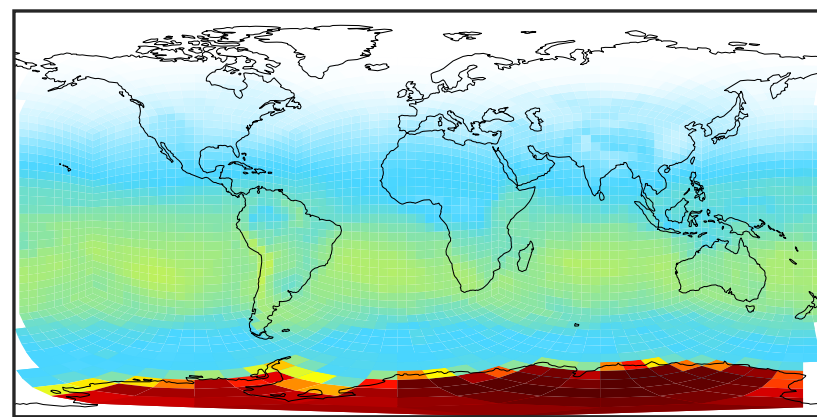


Jval_IDHDP (Jan2019)

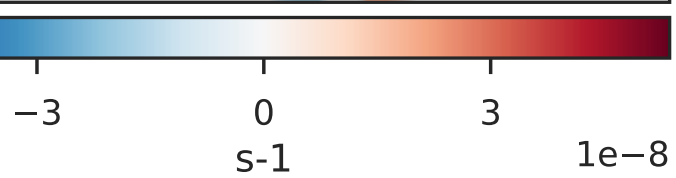
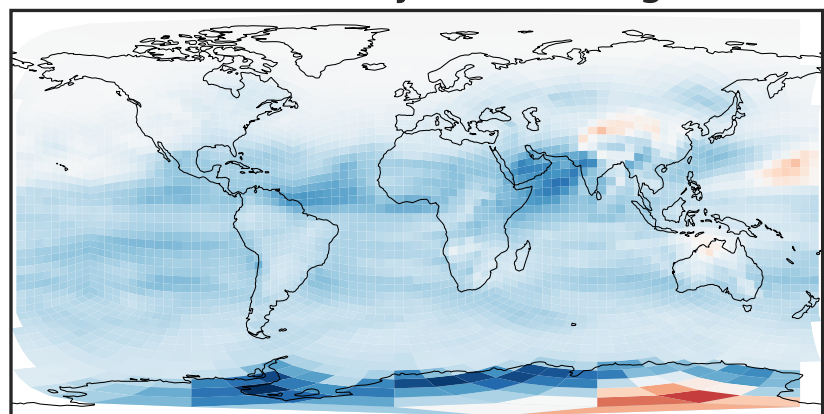
GCHP_14.0.0 (Ref)
c24



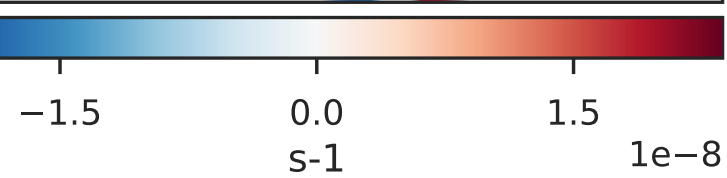
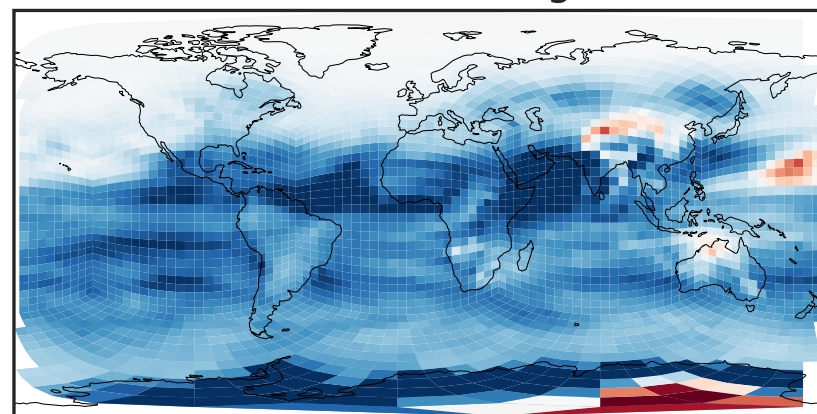
GCHP_14.2.0 (Dev)
c24



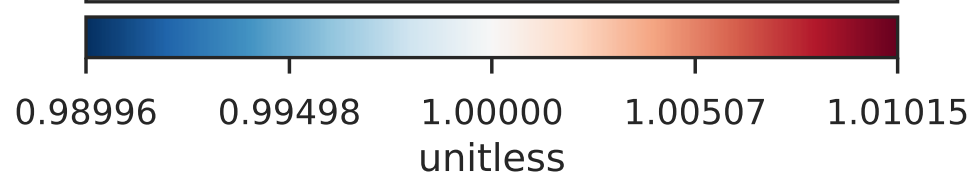
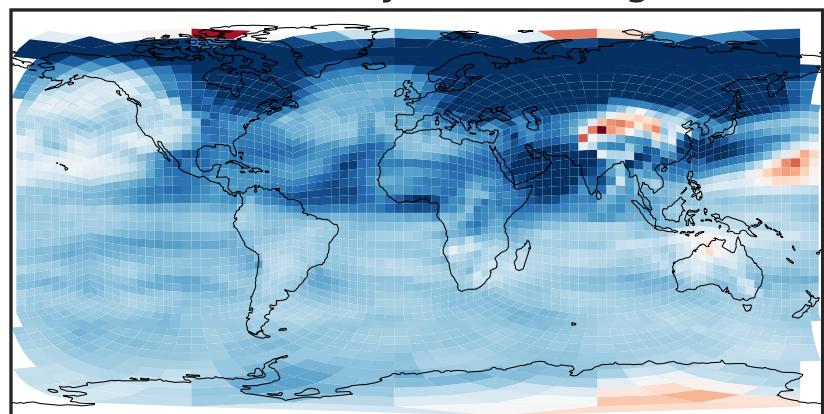
Difference
Dev - Ref, Dynamic Range



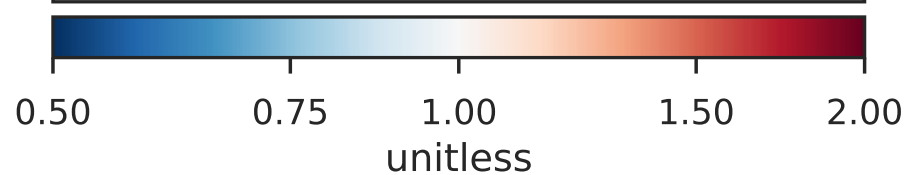
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

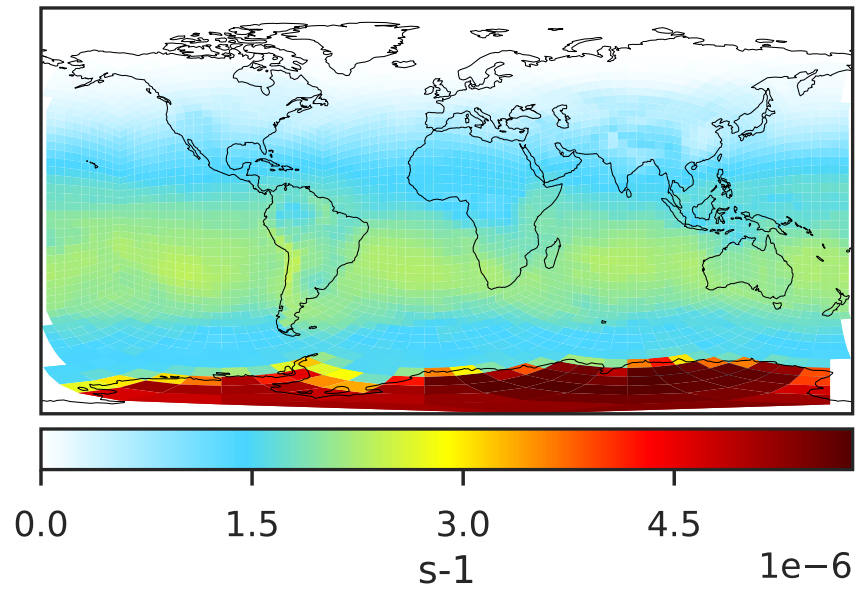


Ratio
Dev/Ref, Fixed Range

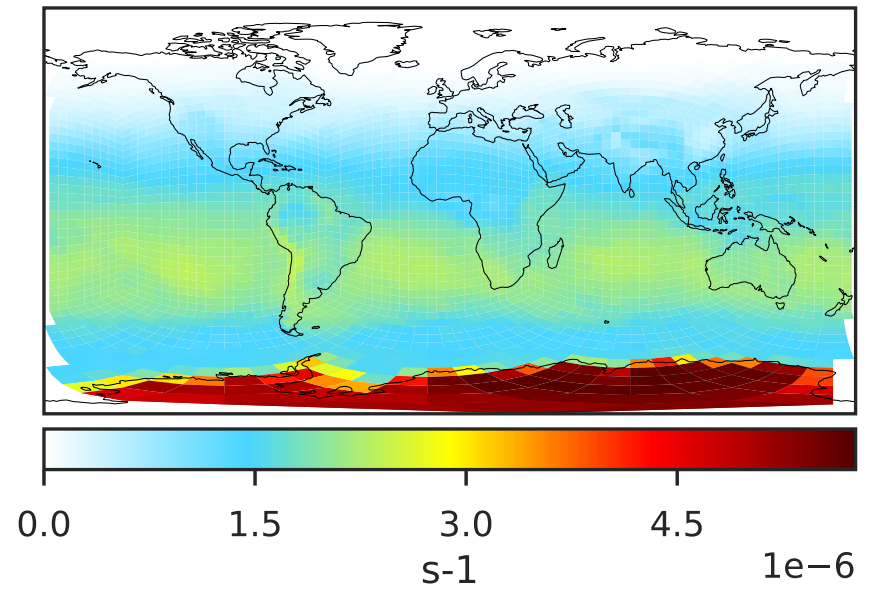


Jval_IDHPE (Jan2019)

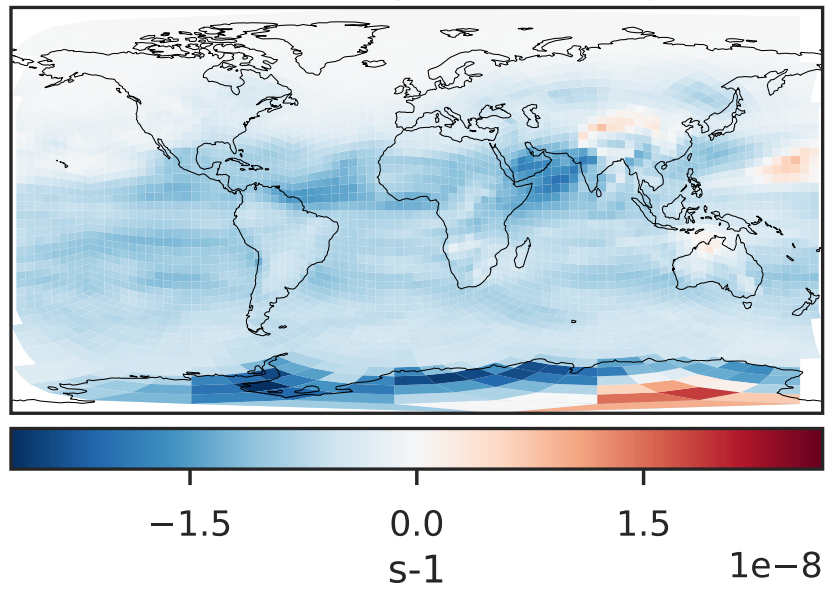
GCHP_14.0.0 (Ref)
c24



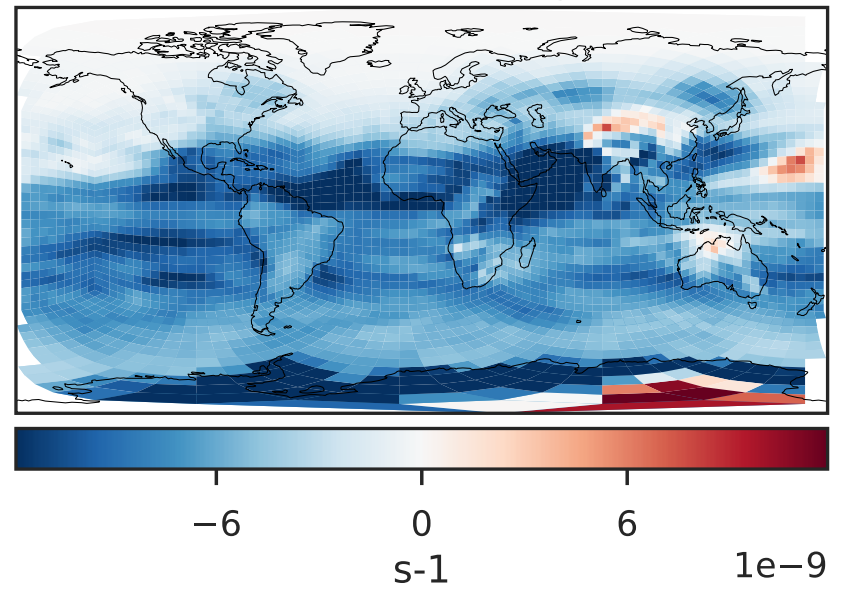
GCHP_14.2.0 (Dev)
c24



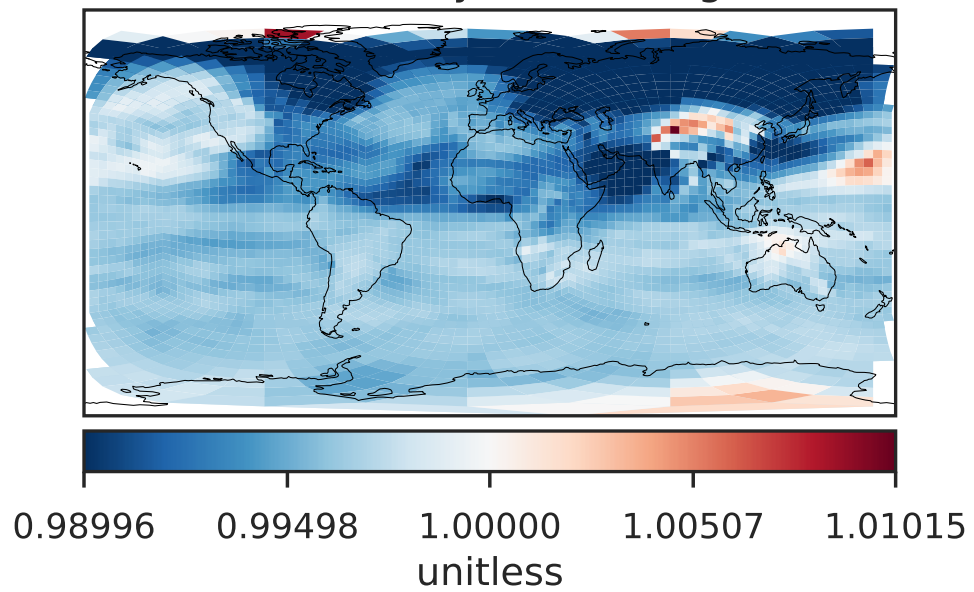
Difference
Dev - Ref, Dynamic Range



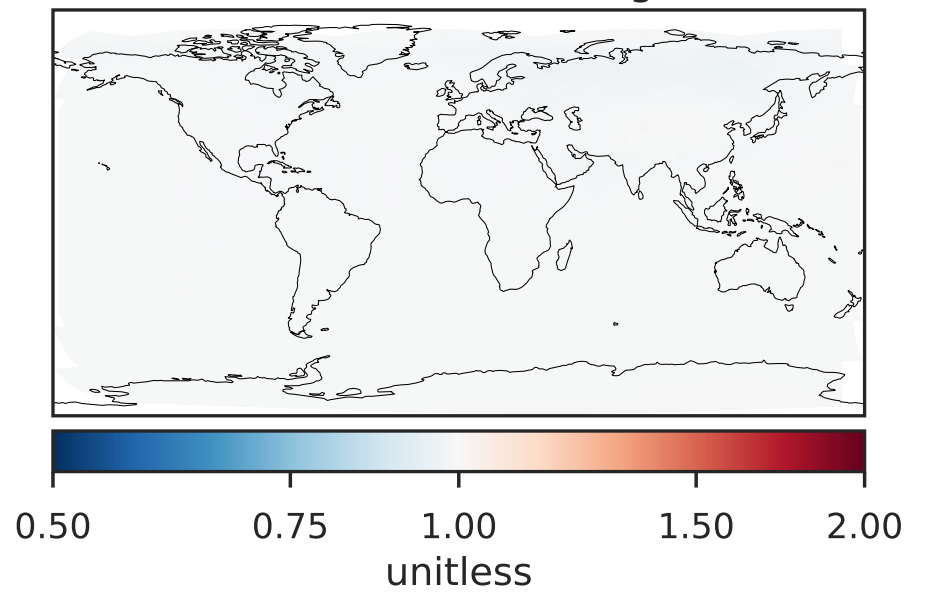
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

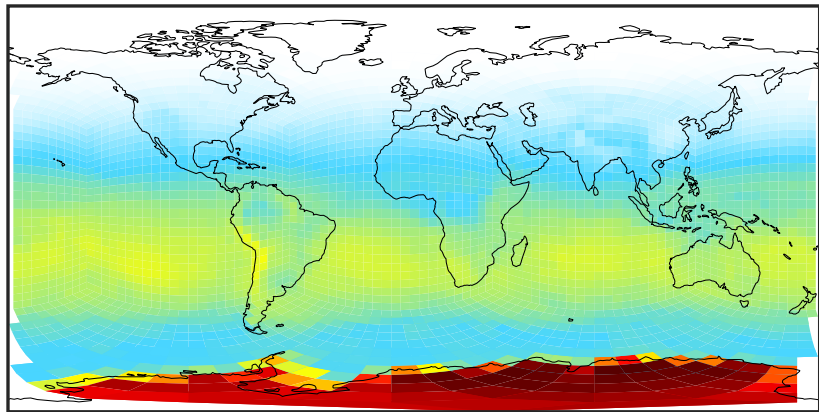


Ratio
Dev/Ref, Fixed Range



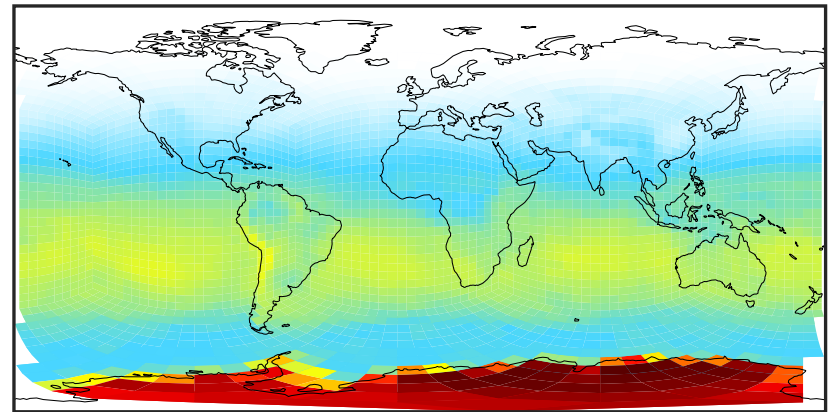
Jval_IDN (Jan2019)

GCHP_14.0.0 (Ref)
c24



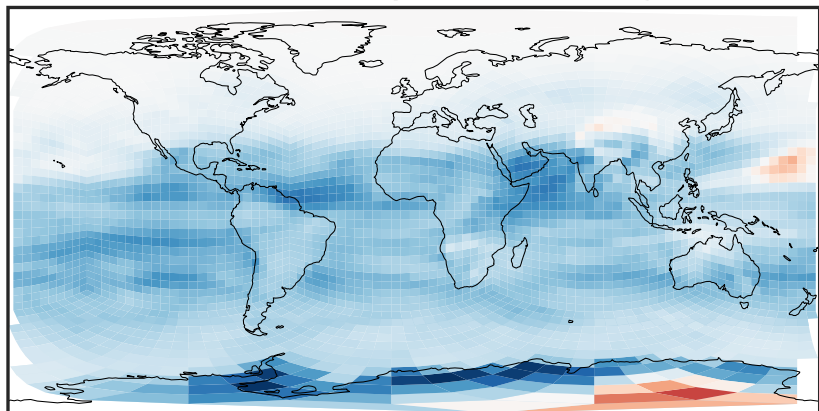
0.0 1.5 3.0 $1e-6$
s-1

GCHP_14.2.0 (Dev)
c24



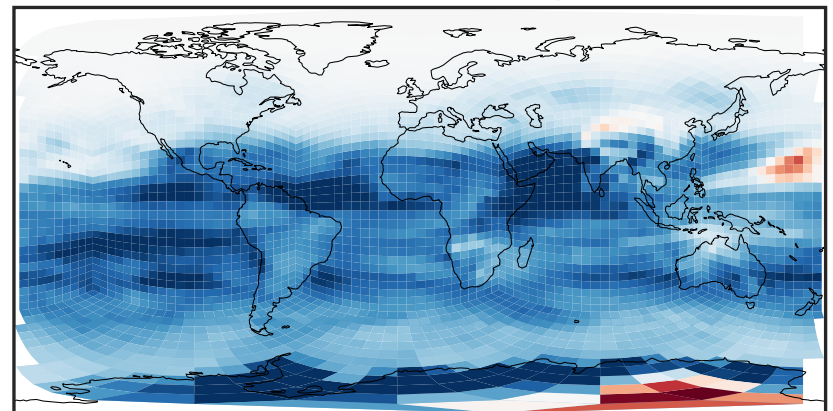
0.0 1.5 3.0 $1e-6$
s-1

Difference
Dev - Ref, Dynamic Range



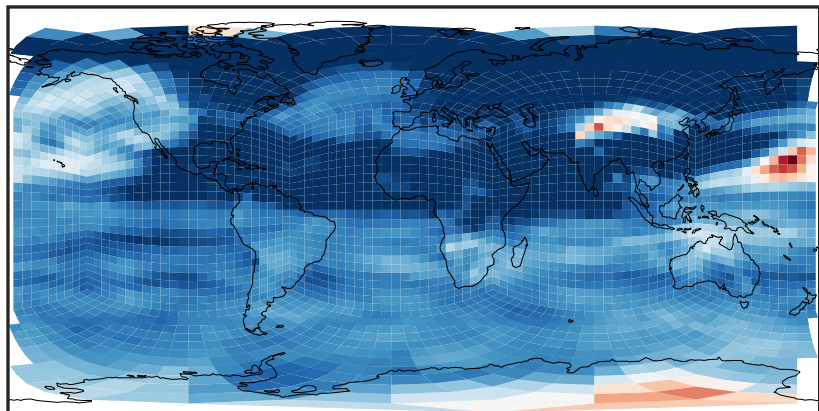
-2 0 2 $1e-8$
s-1

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



-1 0 1 $1e-8$
s-1

Ratio
Dev/Ref, Dynamic Range



0.98813 0.99406 1.00000 1.00601 1.01202
unitless

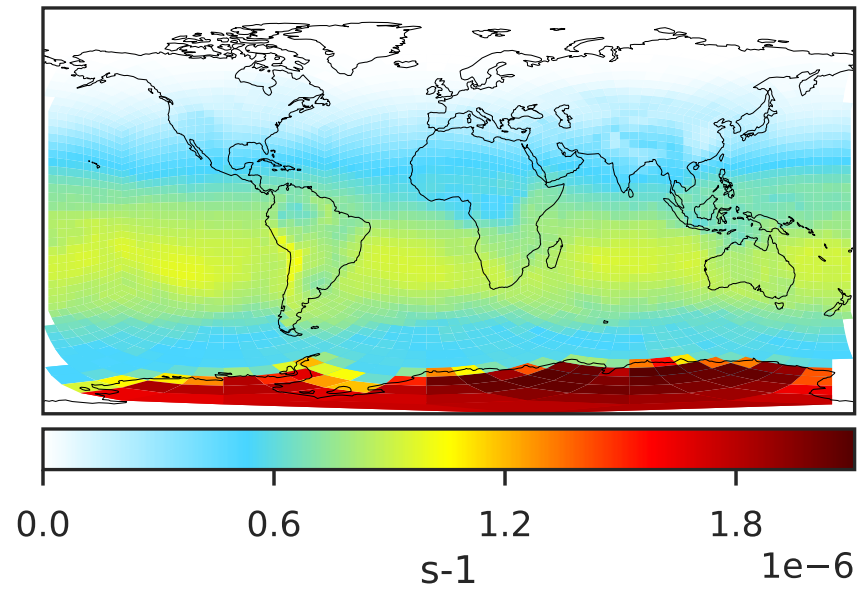
Ratio
Dev/Ref, Fixed Range



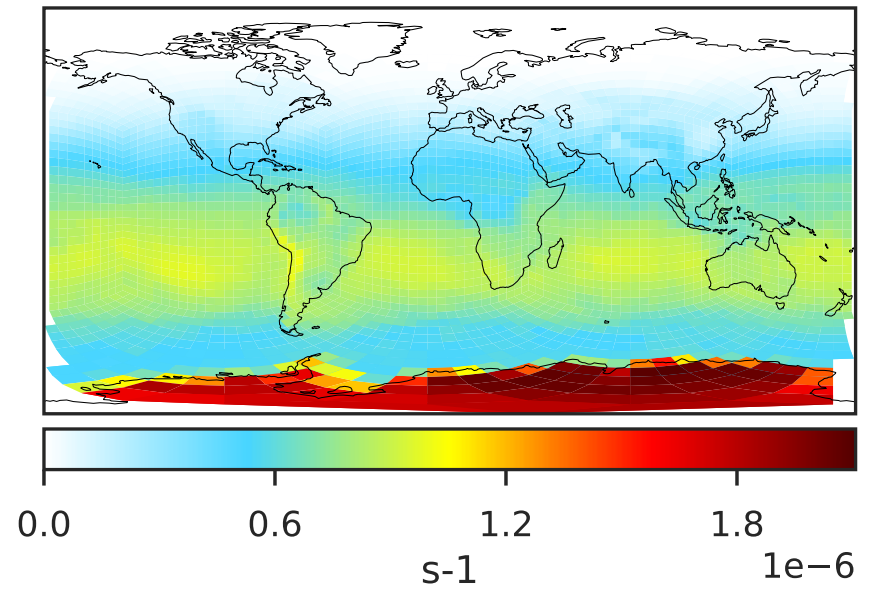
0.50 0.75 1.00 1.50 2.00
unitless

Jval_IHN1 (Jan2019)

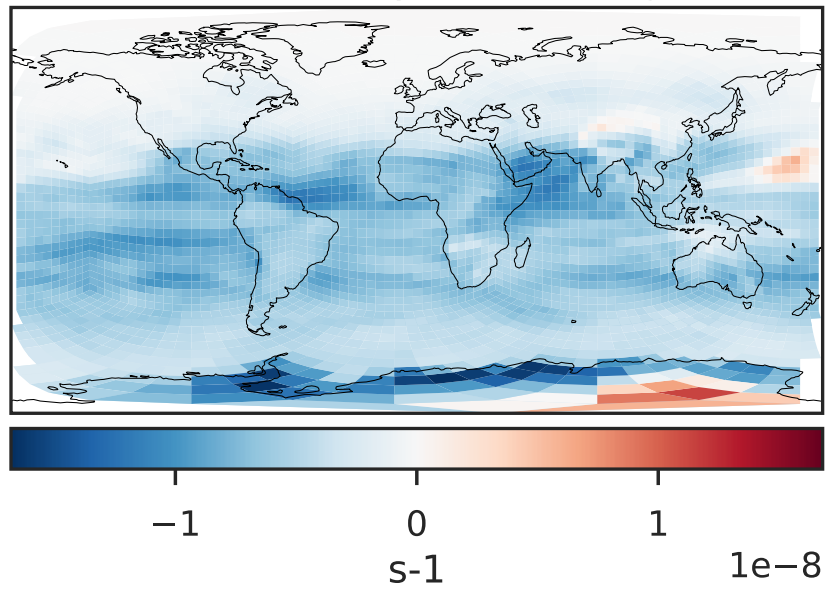
GCHP_14.0.0 (Ref)
c24



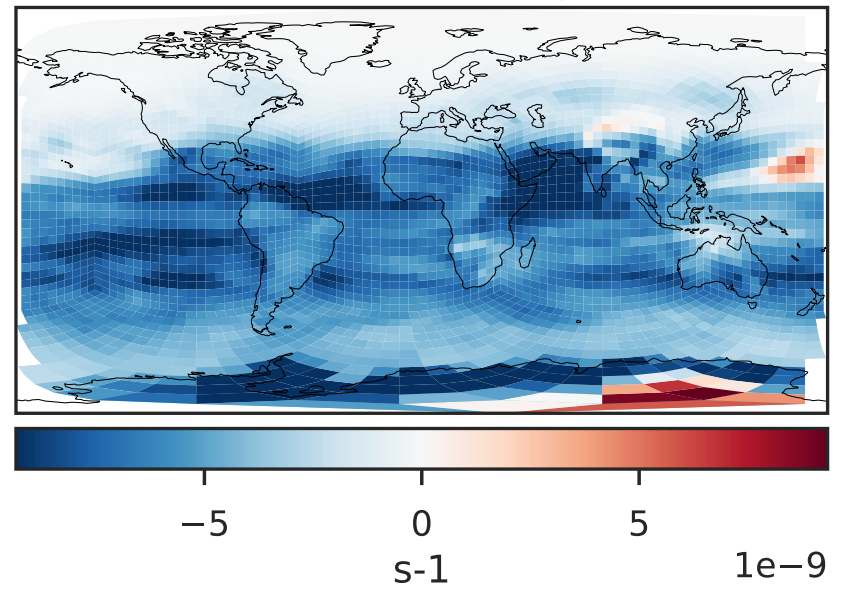
GCHP_14.2.0 (Dev)
c24



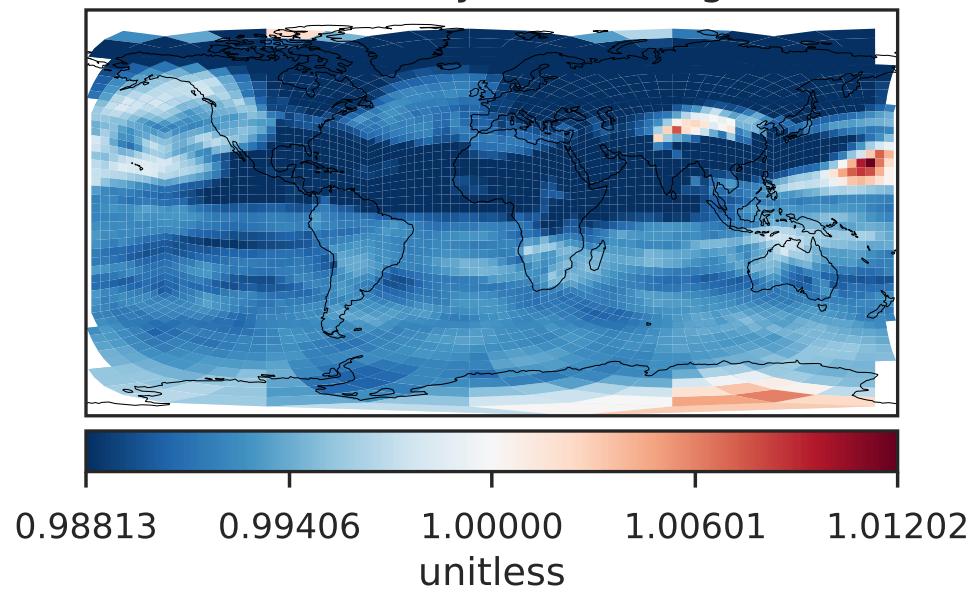
Difference
Dev - Ref, Dynamic Range



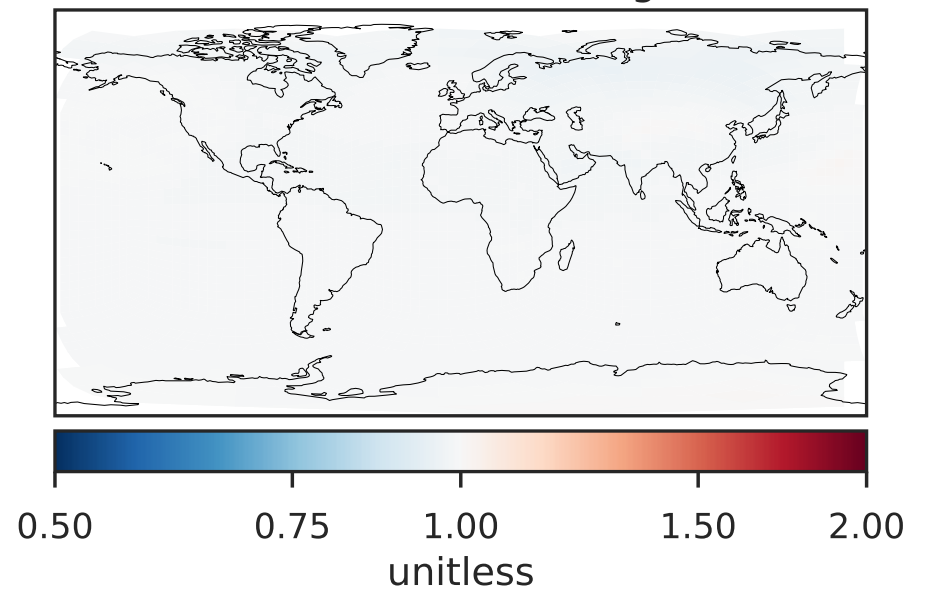
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

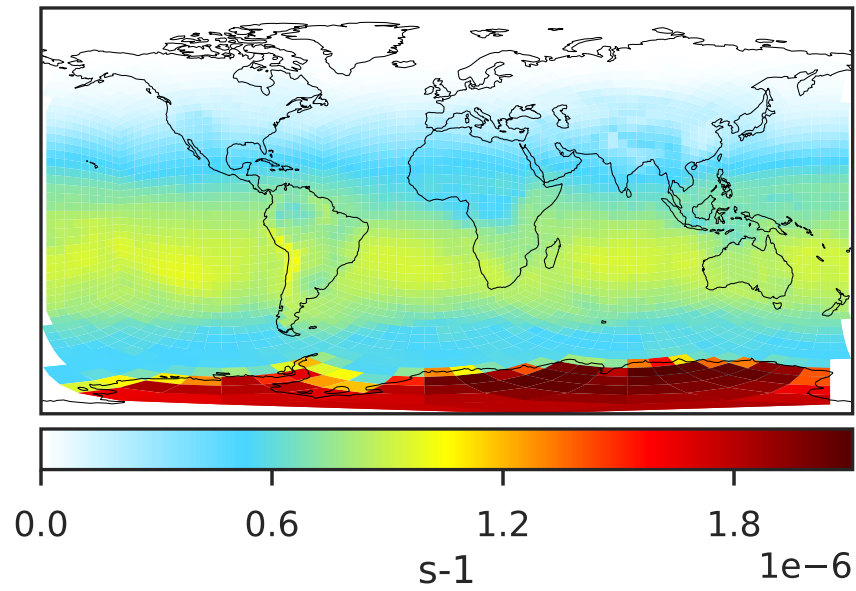


Ratio
Dev/Ref, Fixed Range

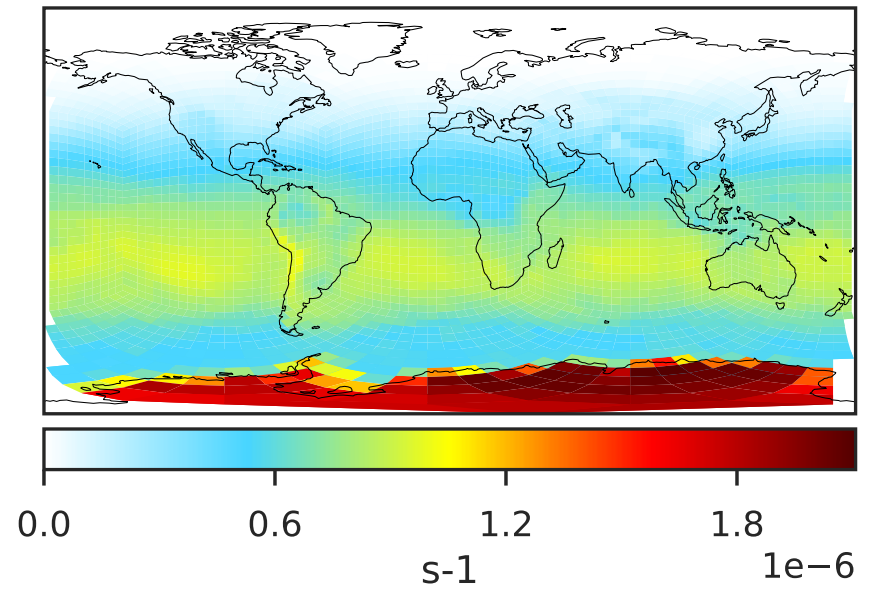


Jval_IHN2 (Jan2019)

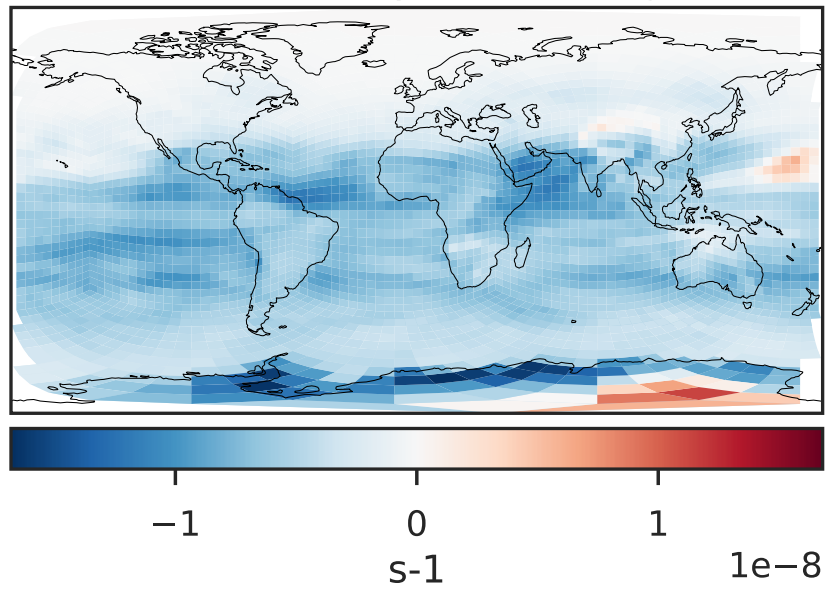
GCHP_14.0.0 (Ref)
c24



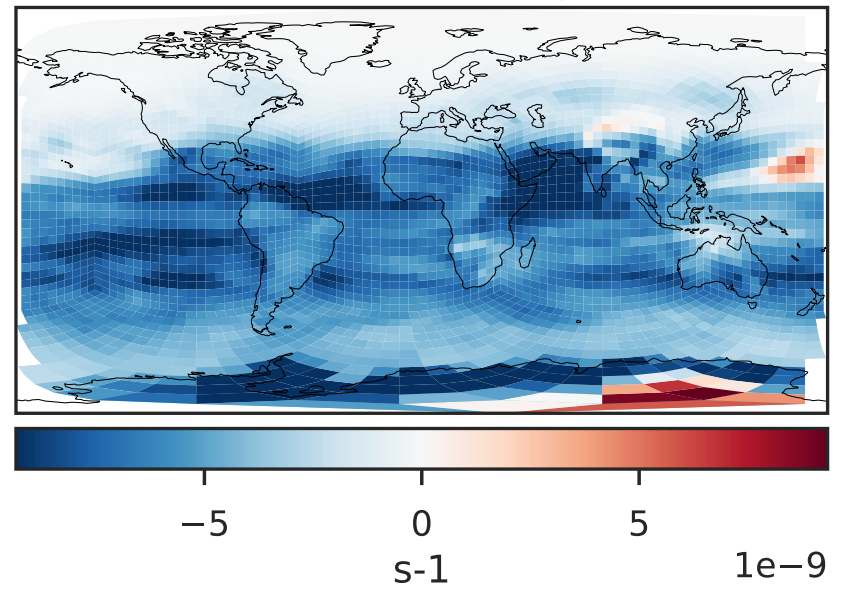
GCHP_14.2.0 (Dev)
c24



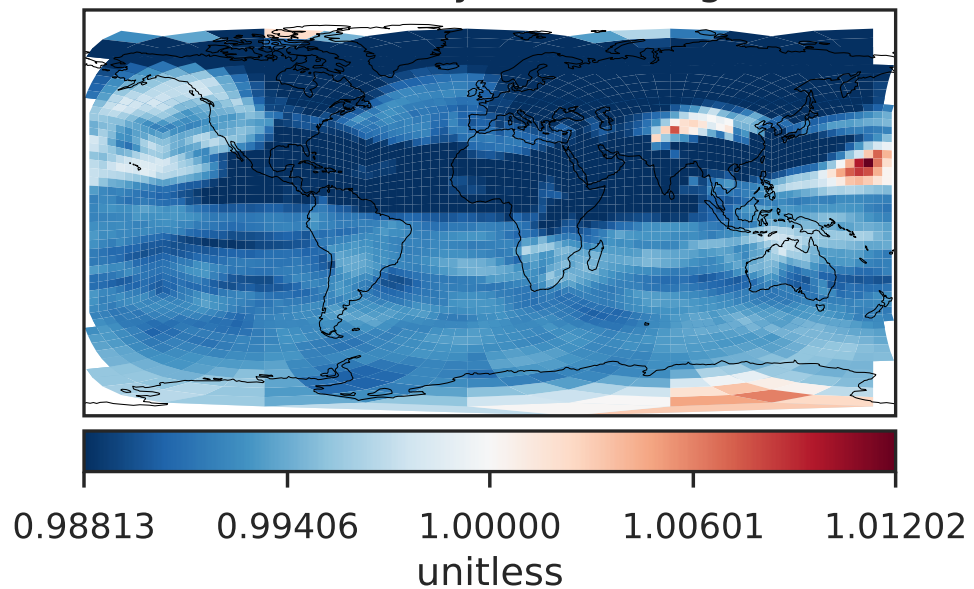
Difference
Dev - Ref, Dynamic Range



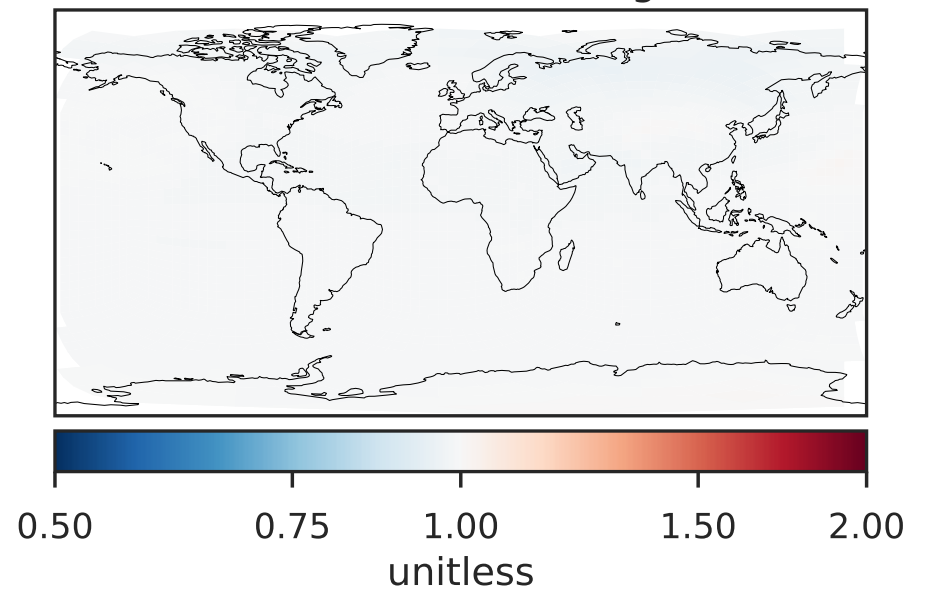
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

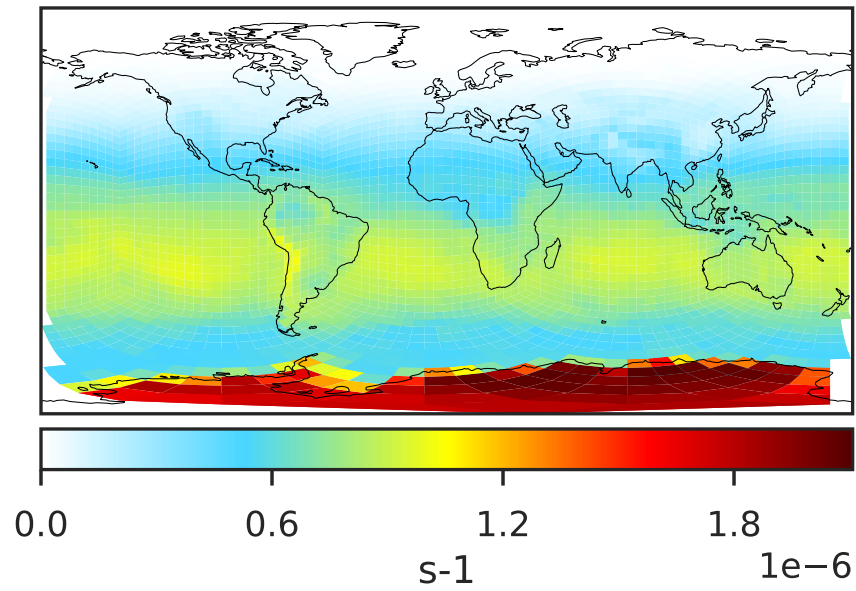


Ratio
Dev/Ref, Fixed Range

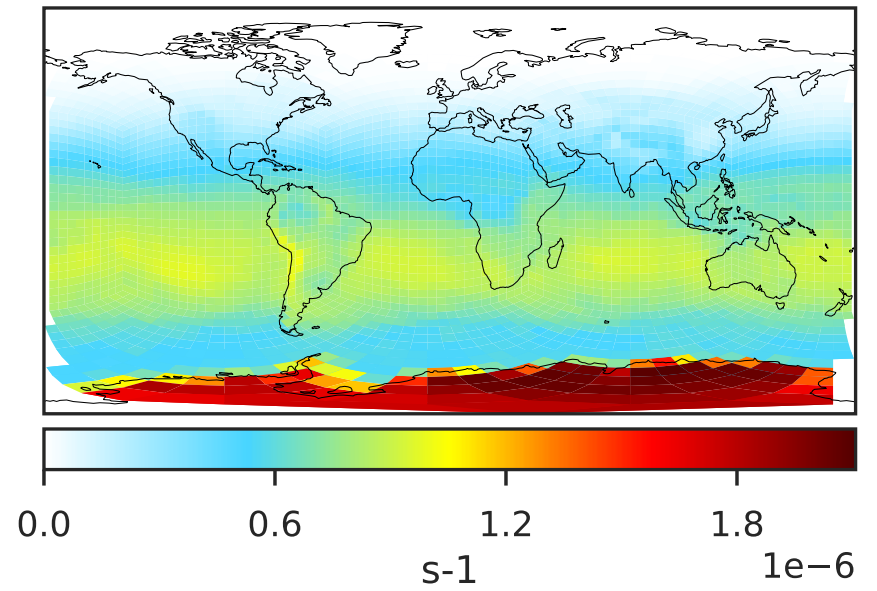


Jval_IHN3 (Jan2019)

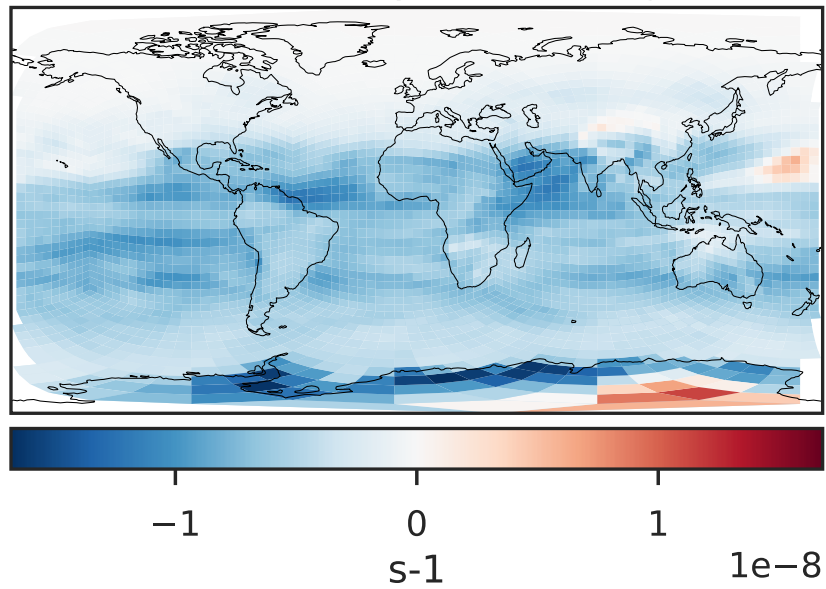
GCHP_14.0.0 (Ref)
c24



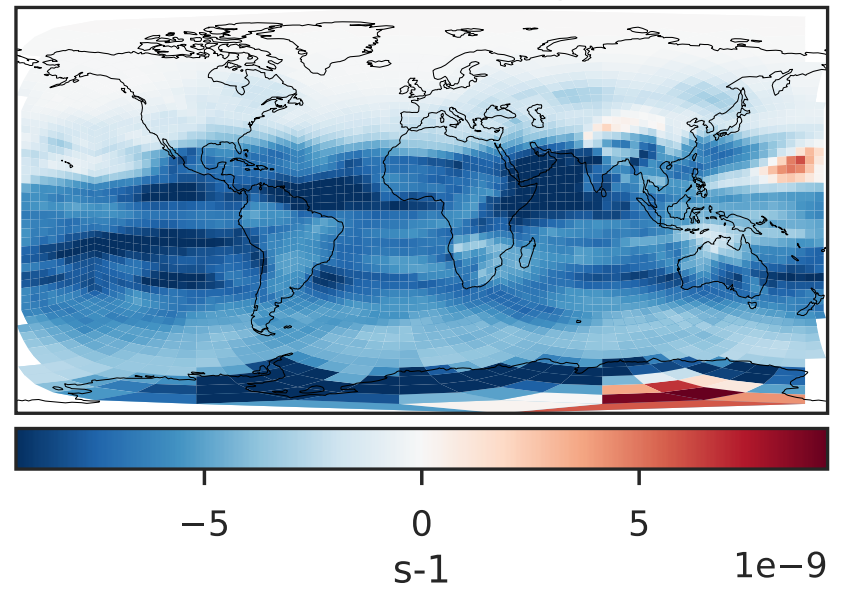
GCHP_14.2.0 (Dev)
c24



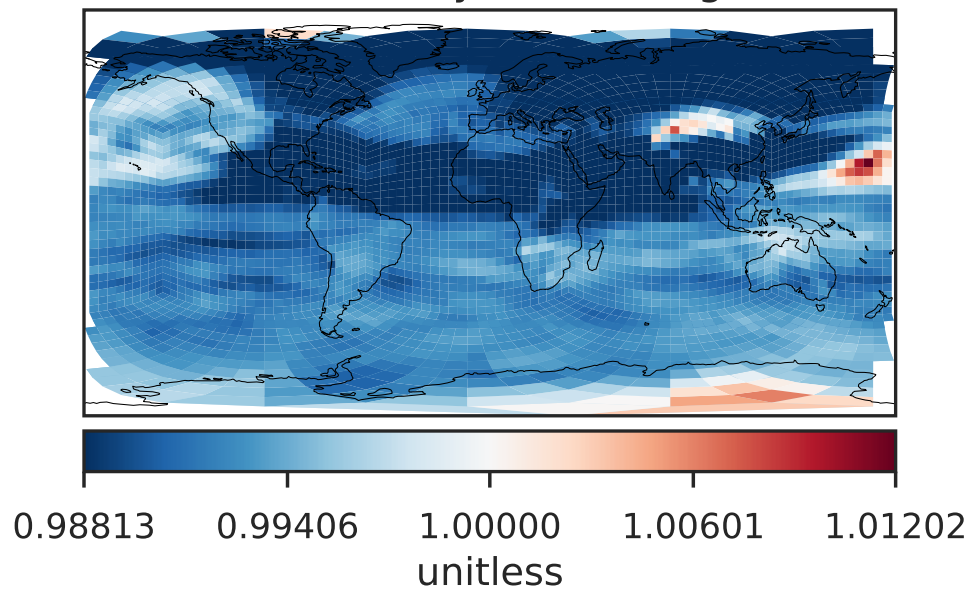
Difference
Dev - Ref, Dynamic Range



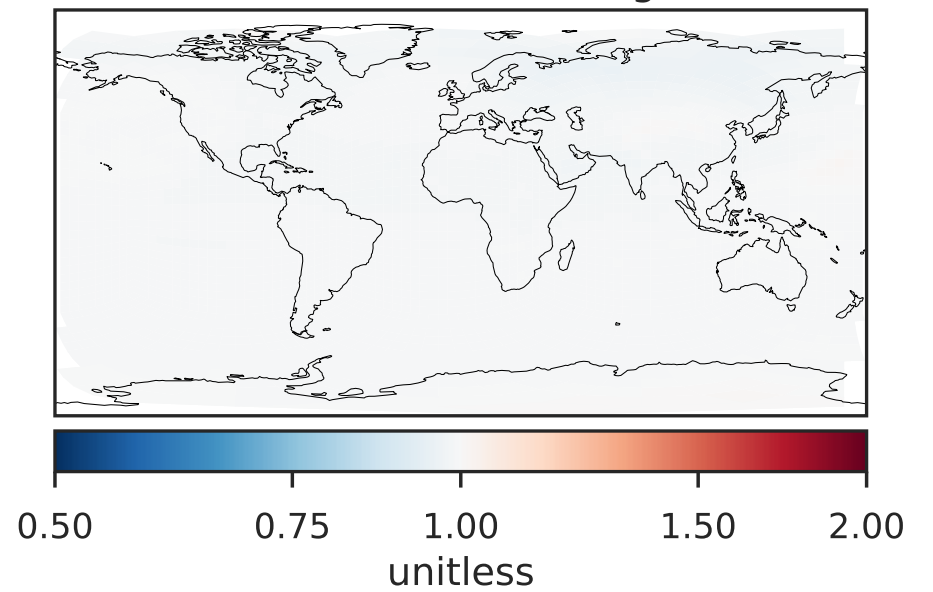
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

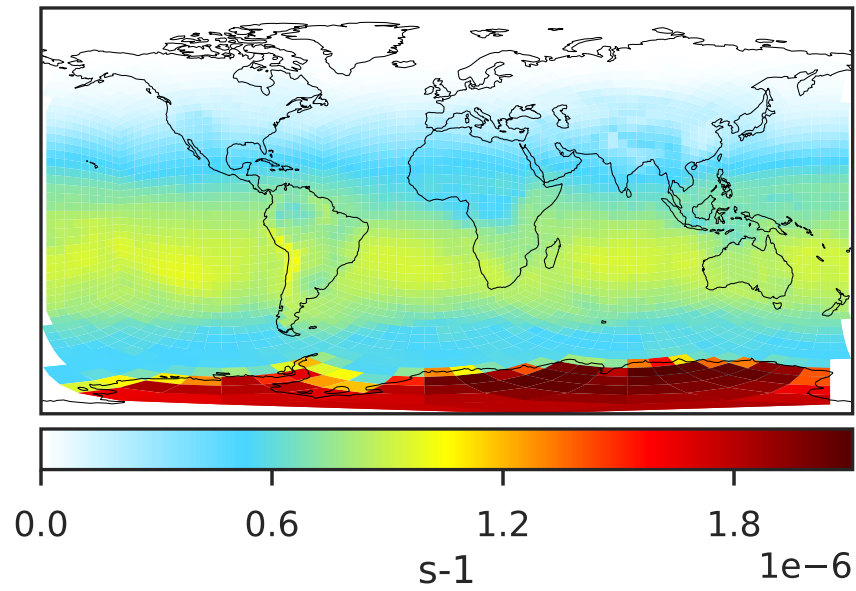


Ratio
Dev/Ref, Fixed Range

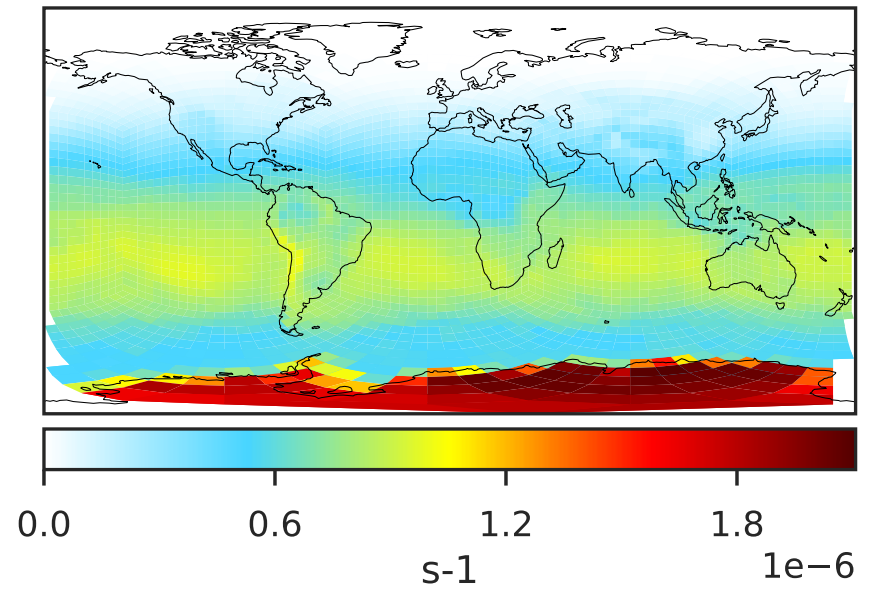


Jval_IHN4 (Jan2019)

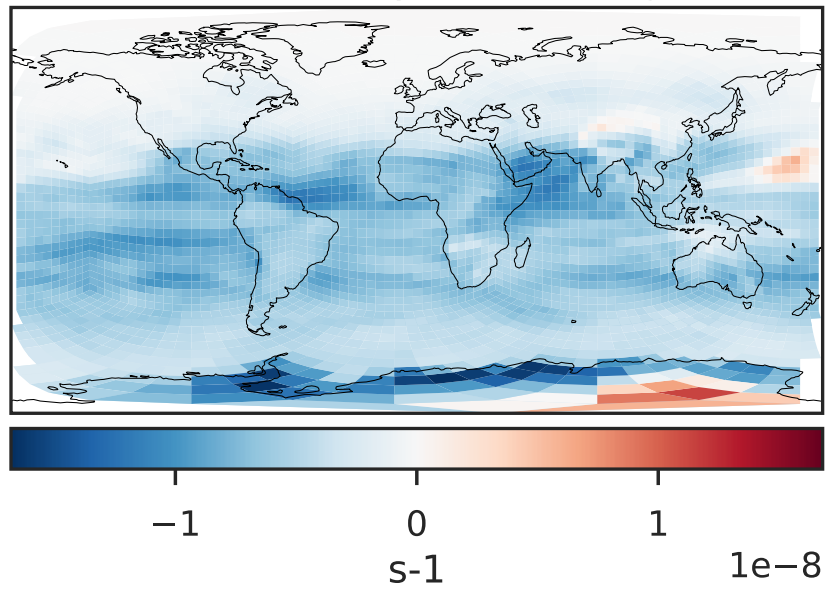
GCHP_14.0.0 (Ref)
c24



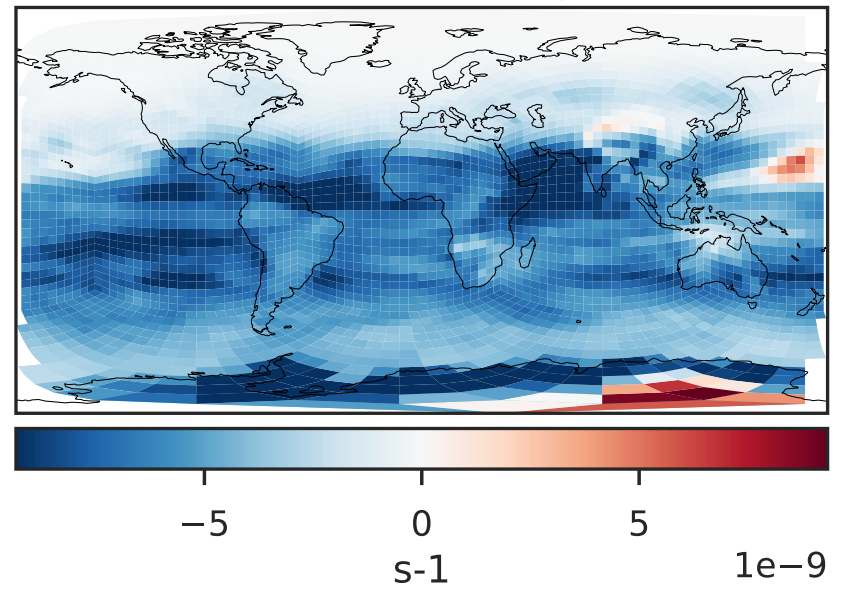
GCHP_14.2.0 (Dev)
c24



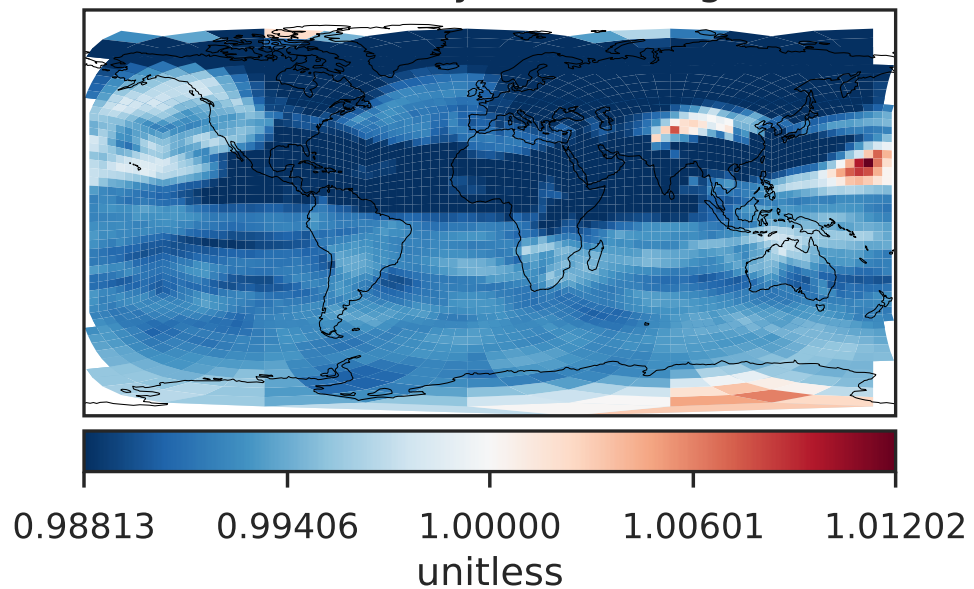
Difference
Dev - Ref, Dynamic Range



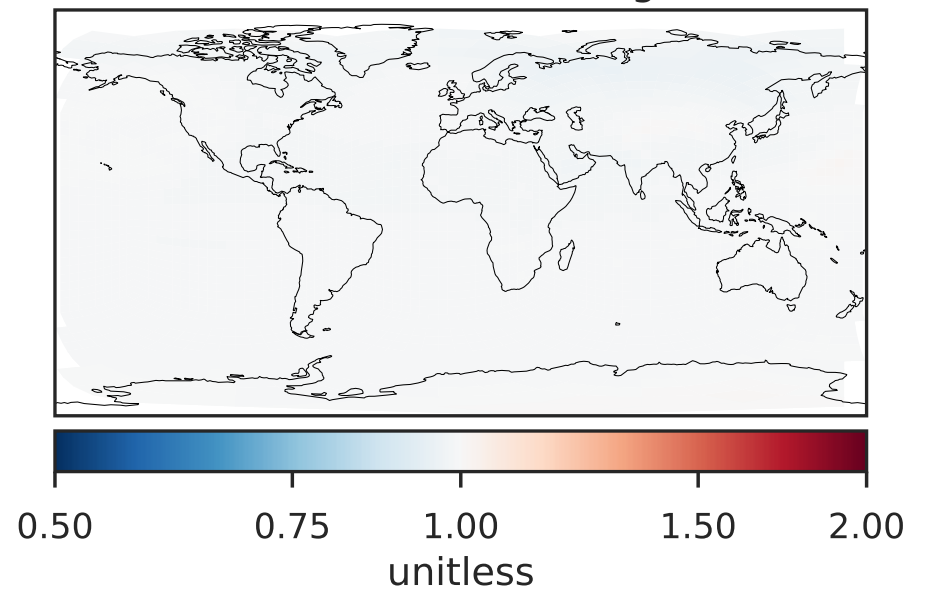
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

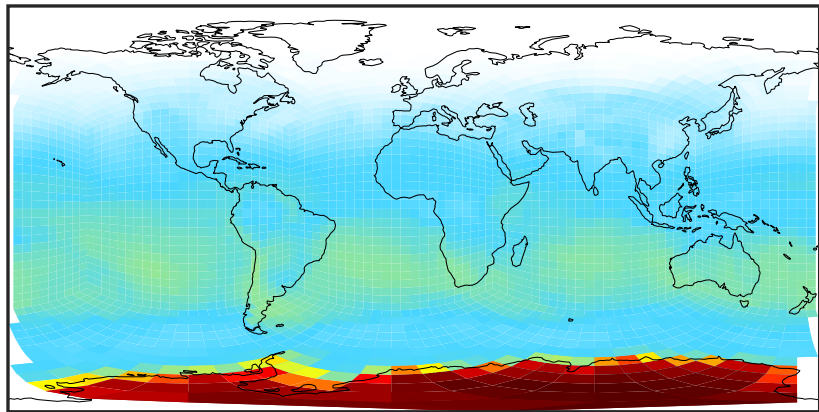


Ratio
Dev/Ref, Fixed Range



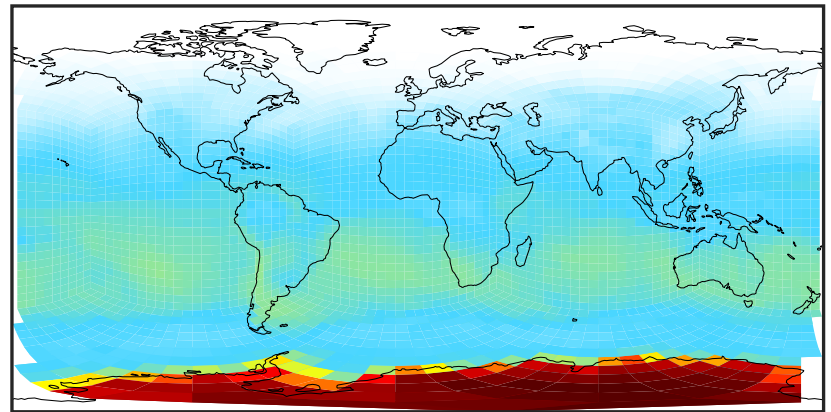
Jval_INO (Jan2019)

GCHP_14.0.0 (Ref)
c24



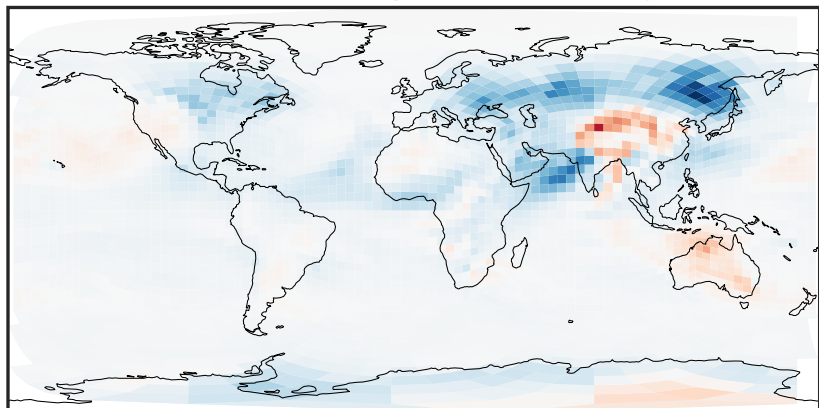
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



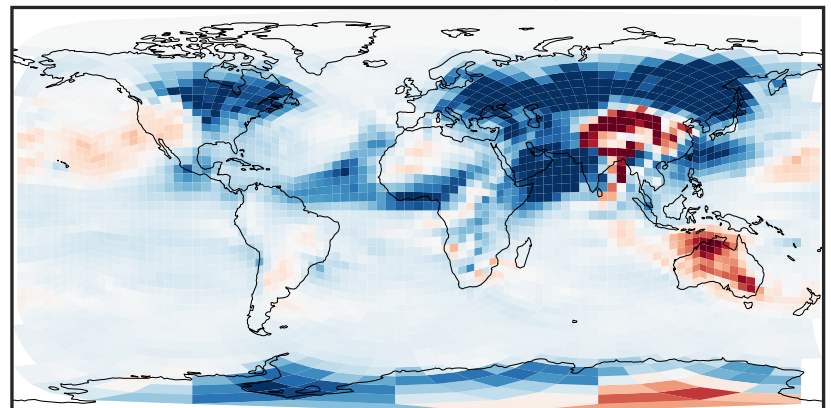
0.000 0.015 0.030 0.045
s-1

Difference
Dev - Ref, Dynamic Range



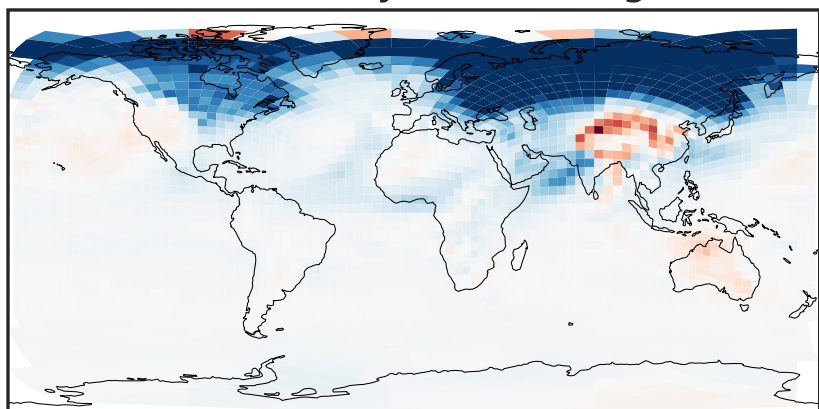
-6 0 6
s-1 1e-5

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



-1.5 0.0 1.5
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98973 0.99486 1.00000 1.00519 1.01038
unitless

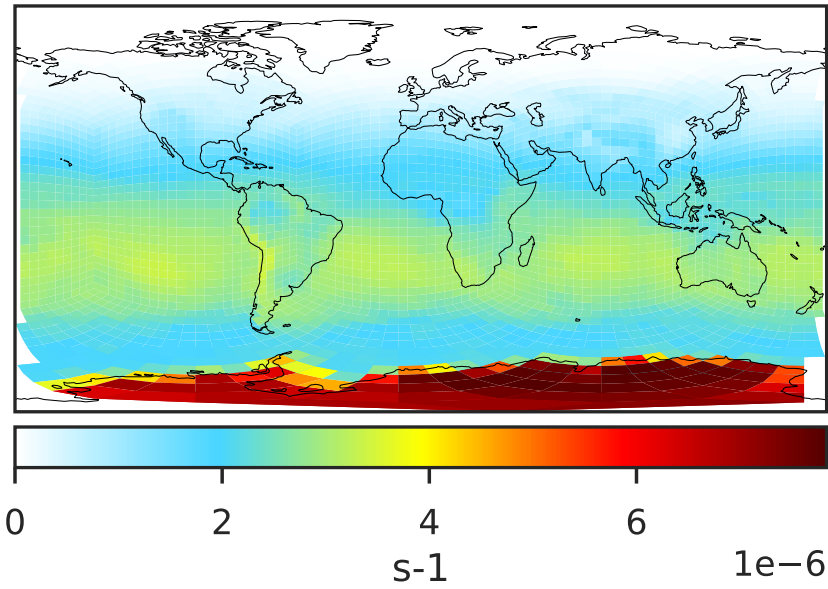
Ratio
Dev/Ref, Fixed Range



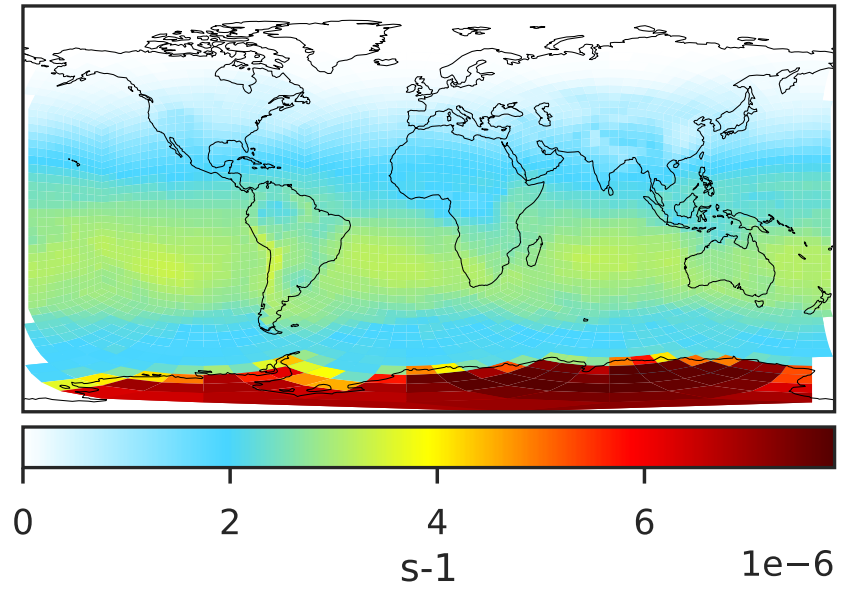
0.50 0.75 1.00 1.50 2.00
unitless

Jval_INPB (Jan2019)

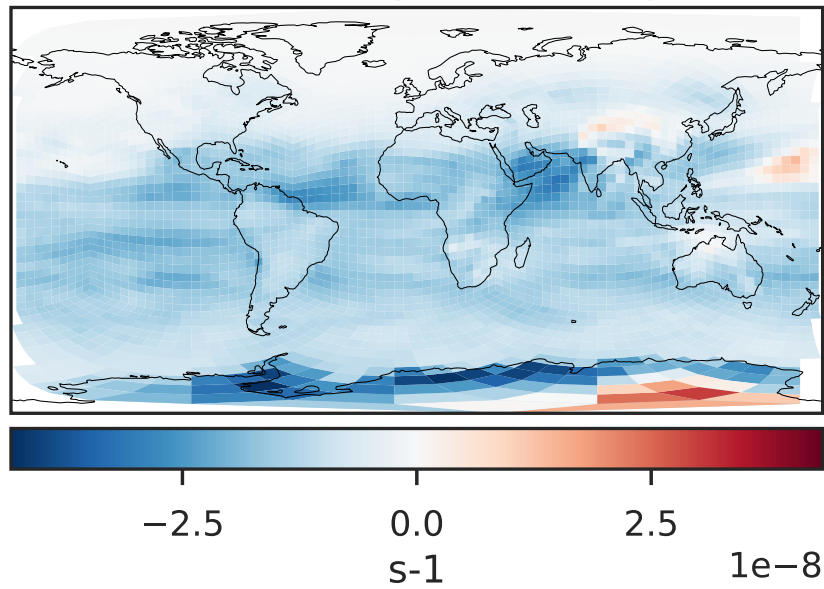
GCHP_14.0.0 (Ref)
c24



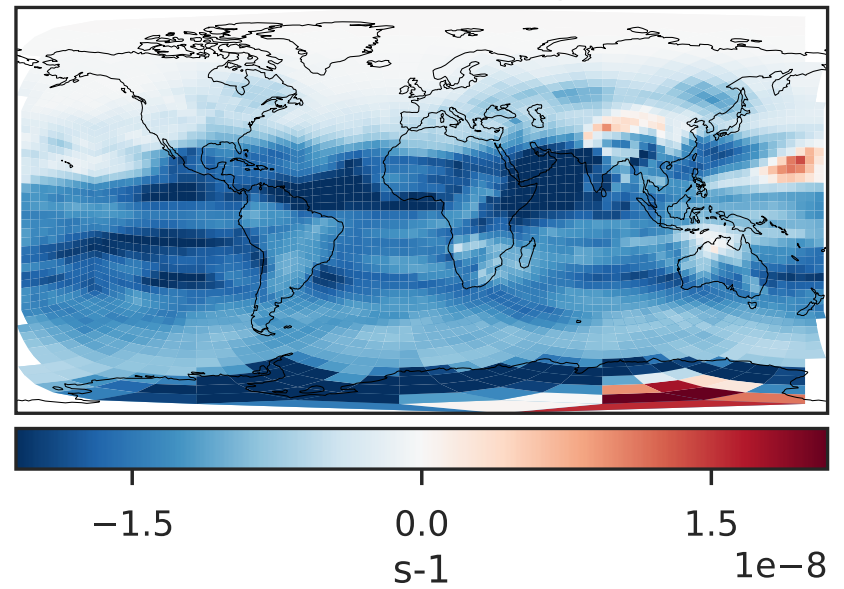
GCHP_14.2.0 (Dev)
c24



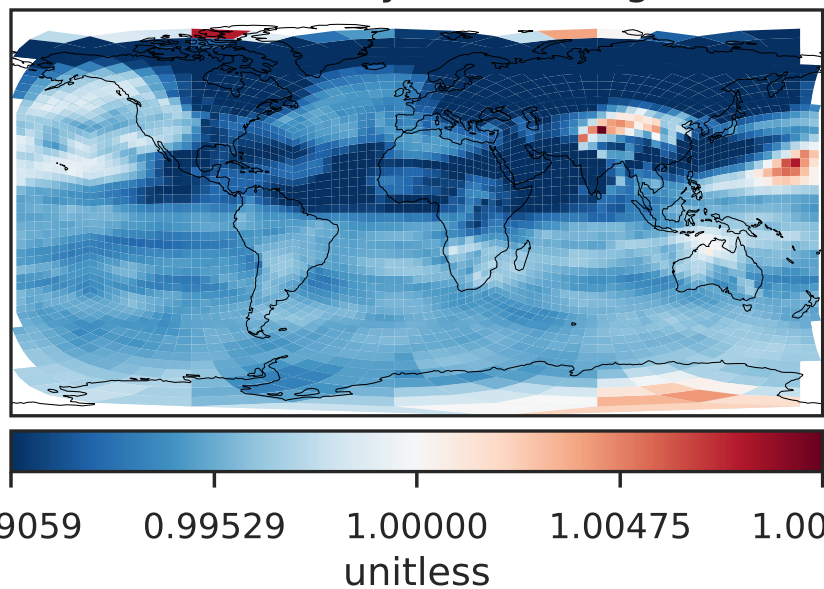
Difference
Dev - Ref, Dynamic Range



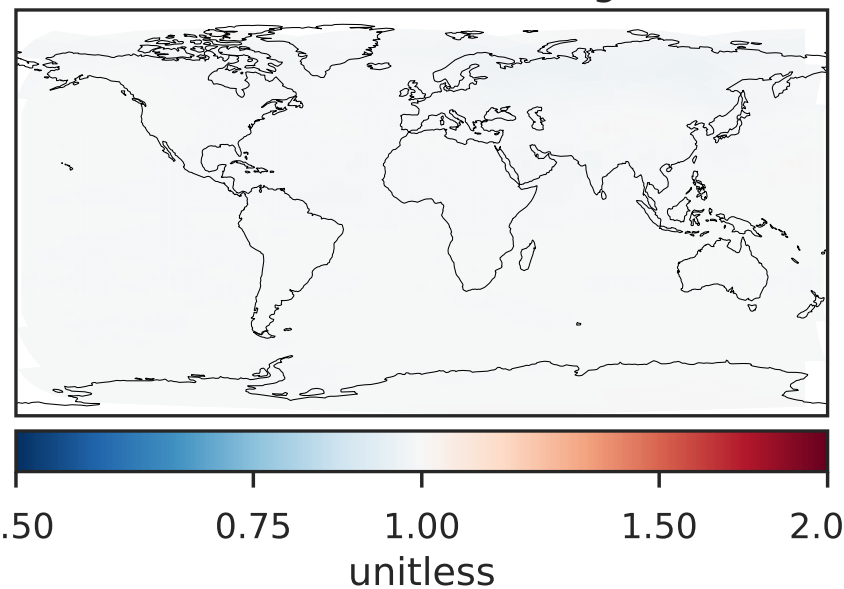
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

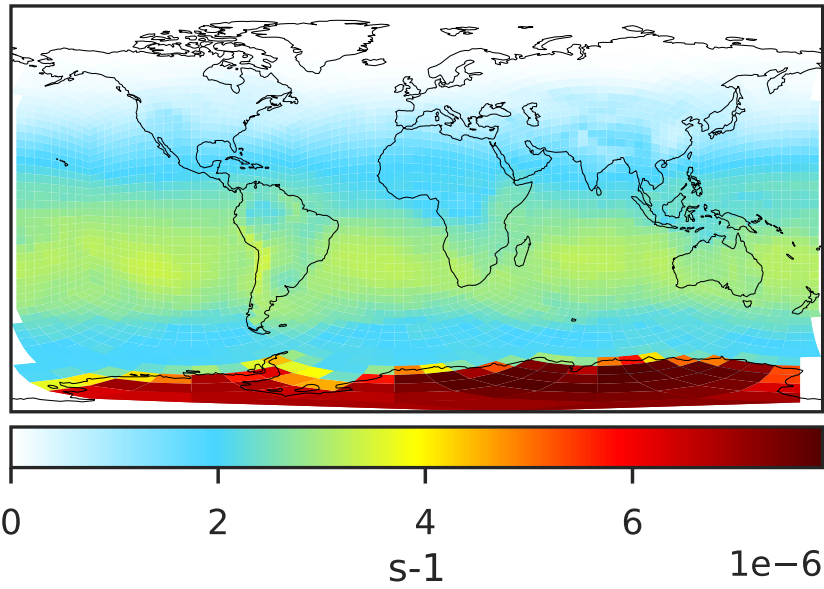


Ratio
Dev/Ref, Fixed Range

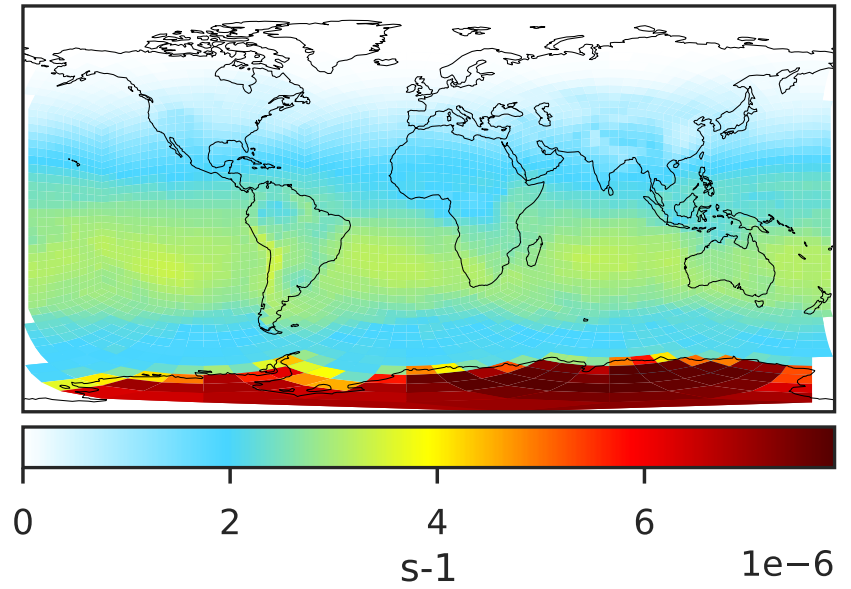


Jval_INPD (Jan2019)

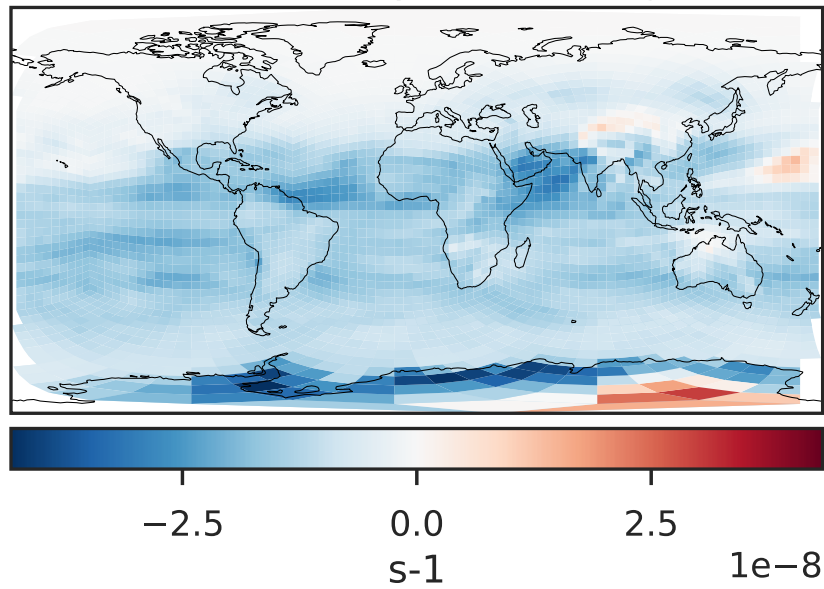
GCHP_14.0.0 (Ref)
c24



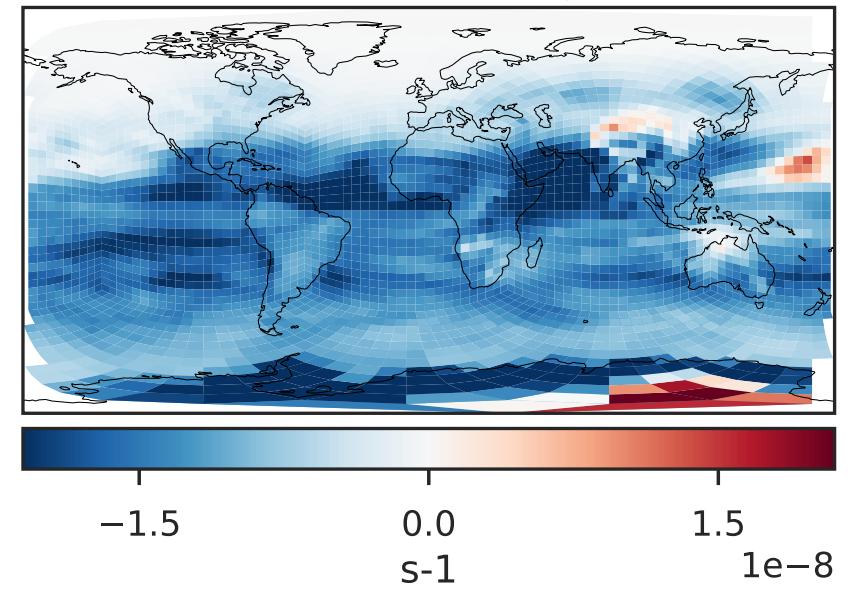
GCHP_14.2.0 (Dev)
c24



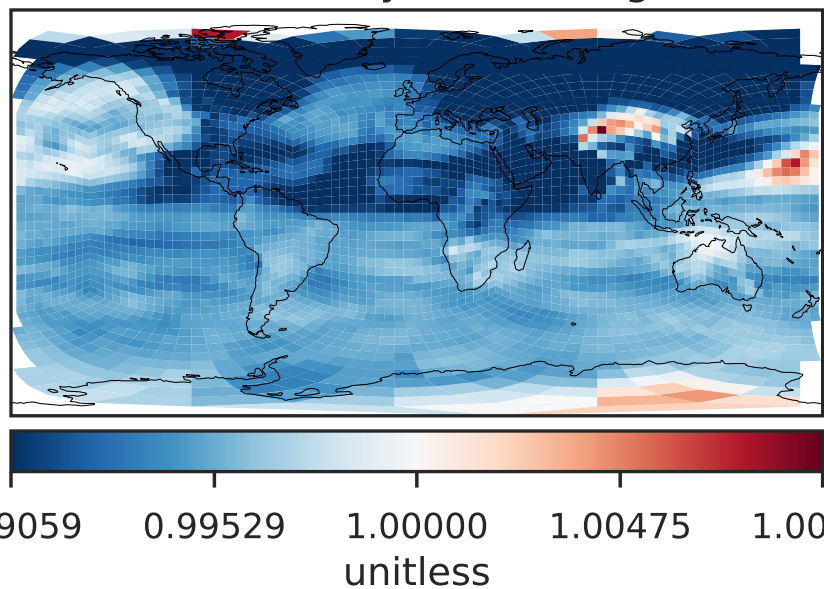
Difference
Dev - Ref, Dynamic Range



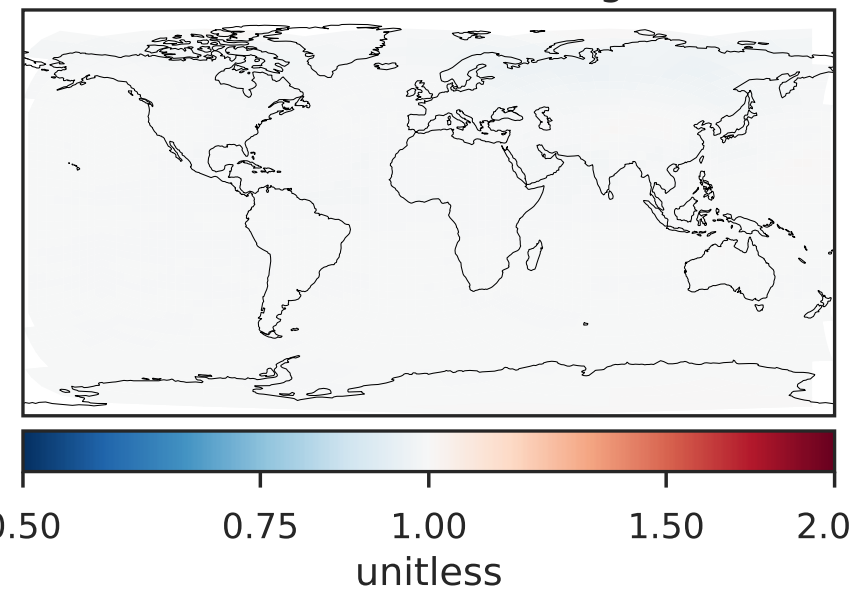
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

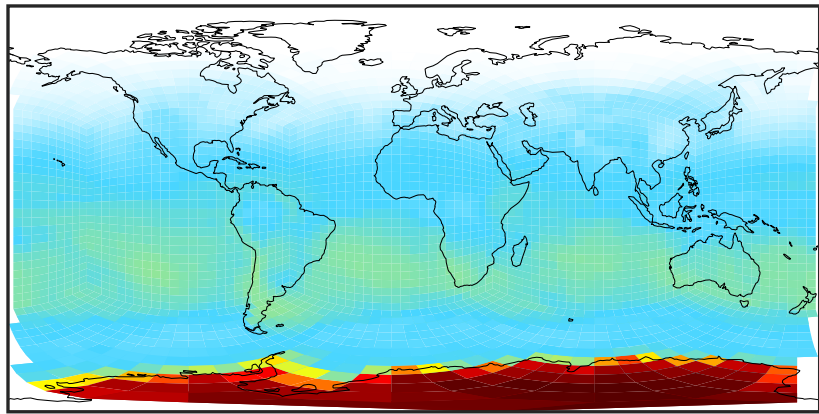


Ratio
Dev/Ref, Fixed Range



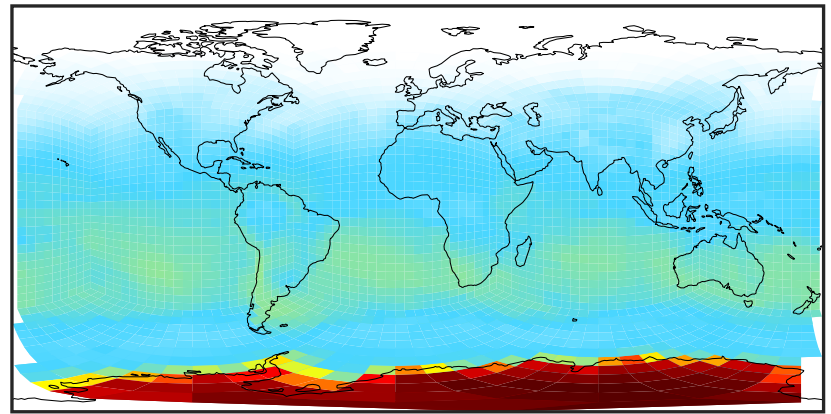
Jval_IO (Jan2019)

GCHP_14.0.0 (Ref)
c24



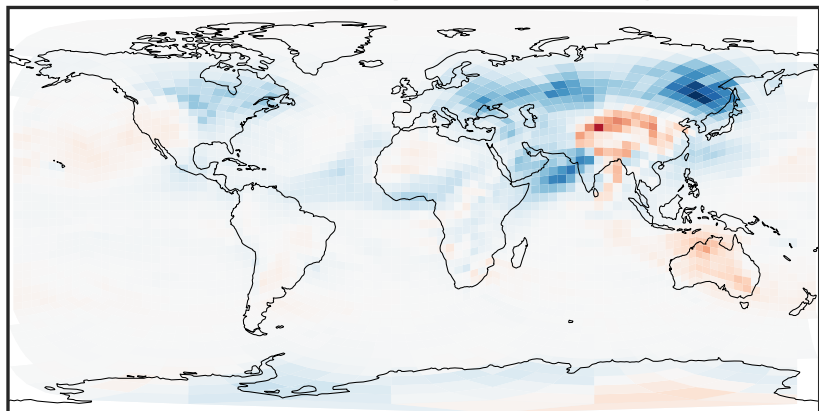
0.0000 0.0725 0.1451 0.2176 0.2901
s-1

GCHP_14.2.0 (Dev)
c24



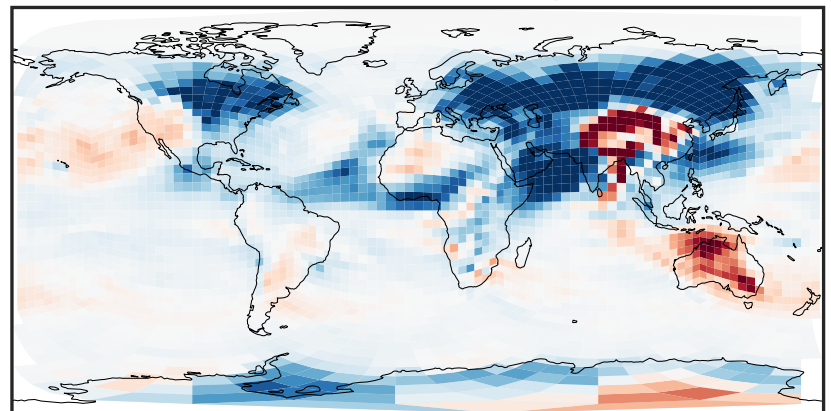
0.0000 0.0725 0.1451 0.2176 0.2901
s-1

Difference
Dev - Ref, Dynamic Range



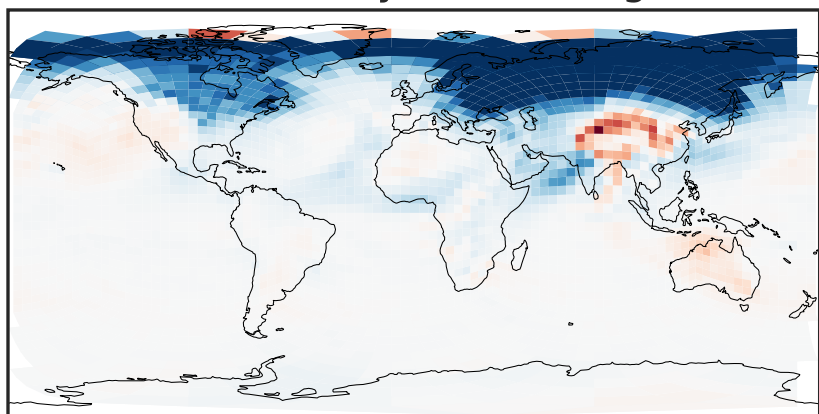
-0.0004 0.0000 0.0004
s-1

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



-0.0001 0.0000 0.0001
s-1

Ratio
Dev/Ref, Dynamic Range



0.98968 0.99484 1.00000 1.00522 1.01043
unitless

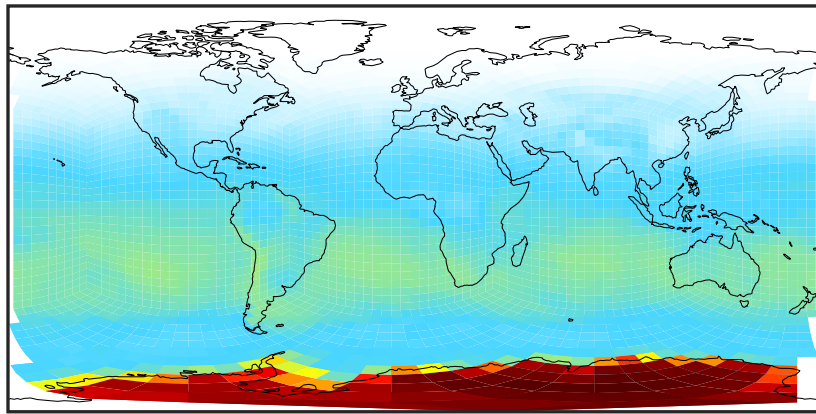
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

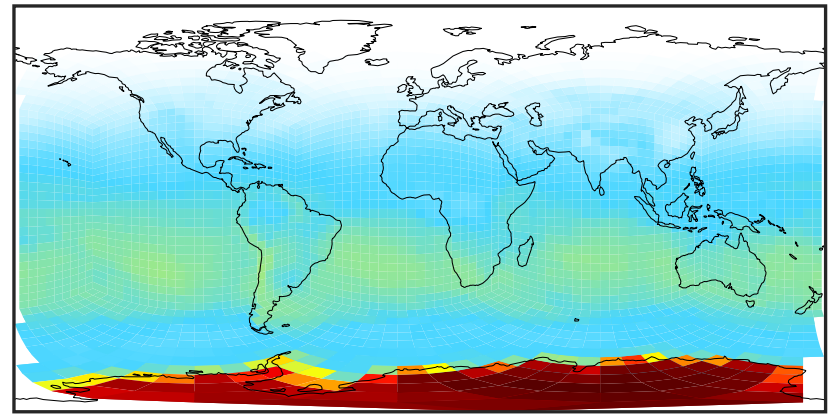
Jval_IONO (Jan2019)

GCHP_14.0.0 (Ref)
c24



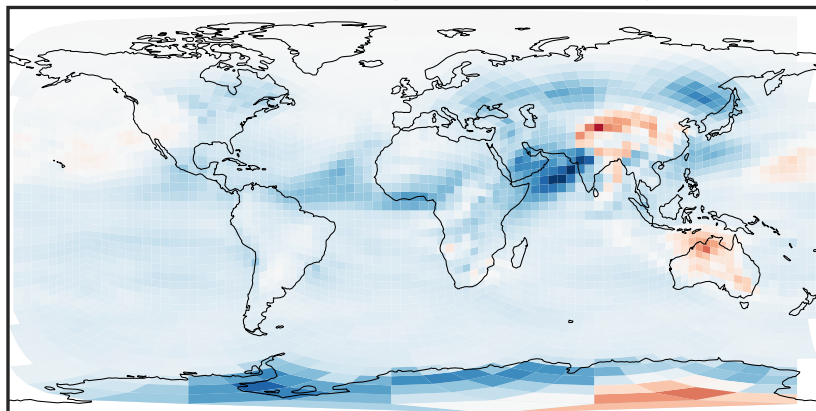
0.000 0.001 0.002 0.003
s-1

GCHP_14.2.0 (Dev)
c24



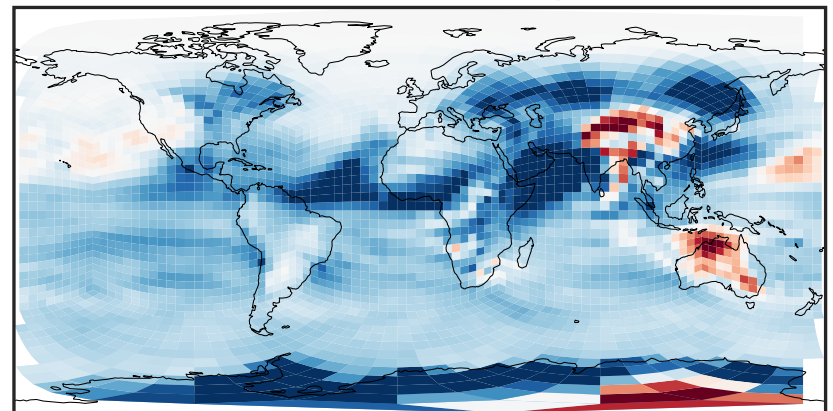
0.000 0.001 0.002 0.003
s-1

Difference
Dev - Ref, Dynamic Range



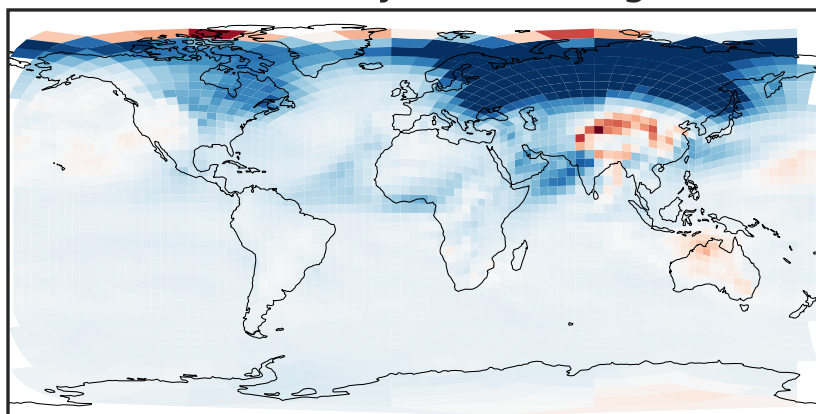
-4 0 4
s-1 $1e-6$

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



-1.5 0.0 1.5
s-1 $1e-6$

Ratio
Dev/Ref, Dynamic Range



0.98799 0.99400 1.00000 1.00608 1.01215
unitless

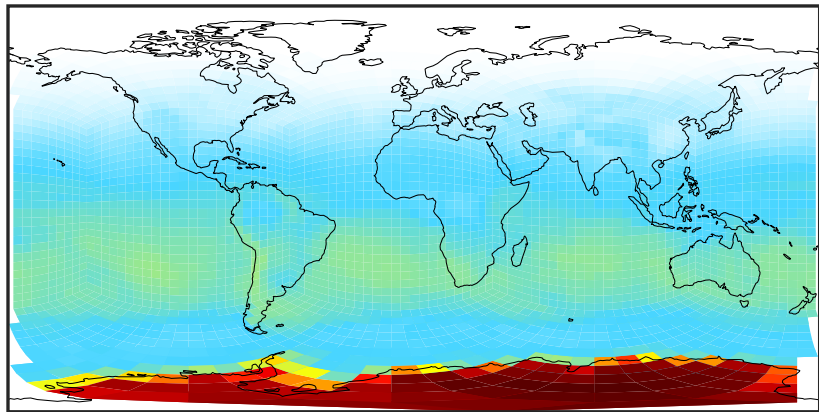
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

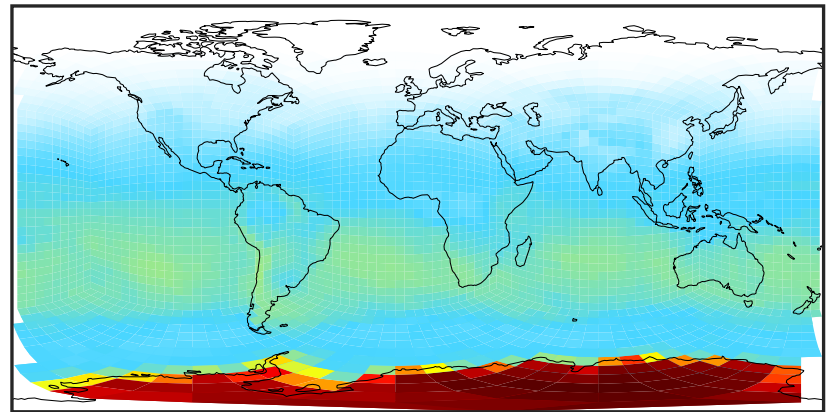
Jval_IONO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



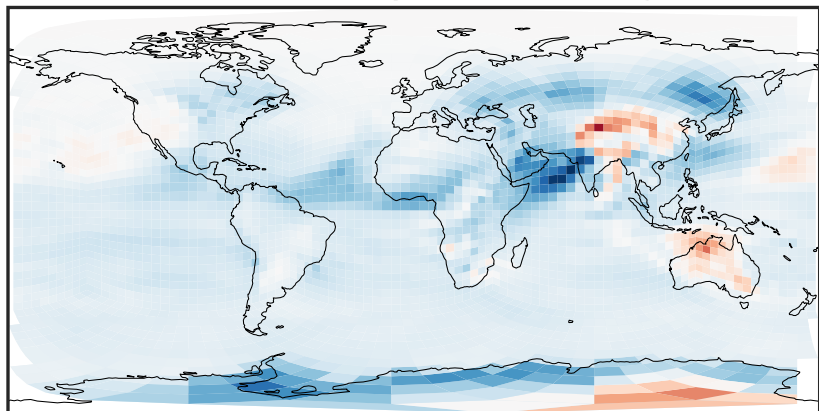
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



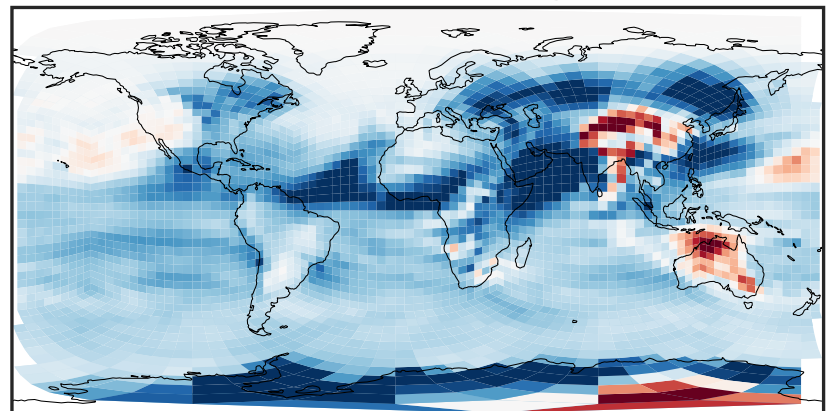
0.000 0.004 0.008 0.012
s-1

Difference
Dev - Ref, Dynamic Range



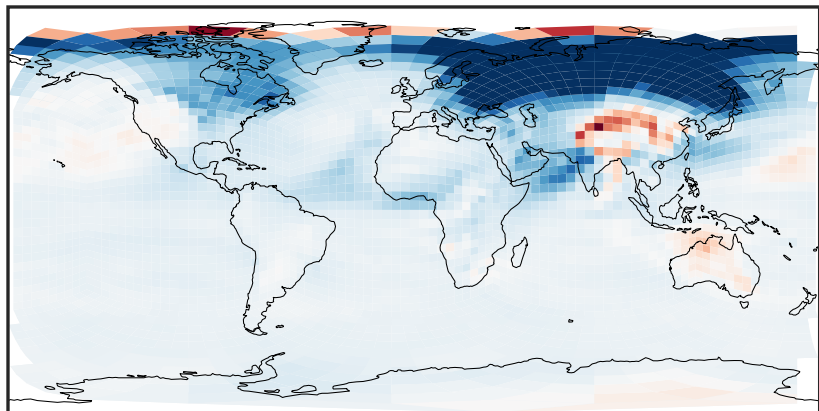
-1.5 0.0 1.5
s-1 $1e-5$

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



-5 0 5
s-1 $1e-6$

Ratio
Dev/Ref, Dynamic Range



0.98812 0.99406 1.00000 1.00601 1.01203
unitless

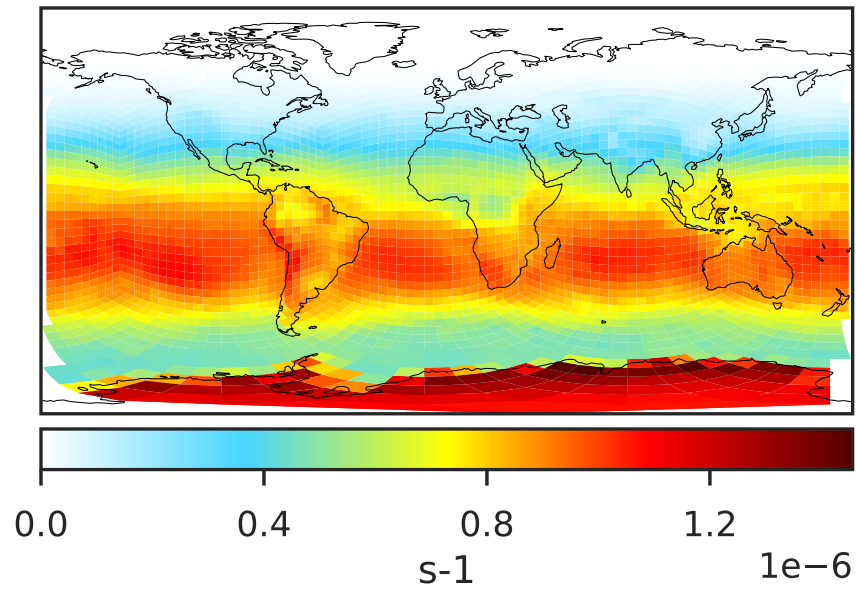
Ratio
Dev/Ref, Fixed Range



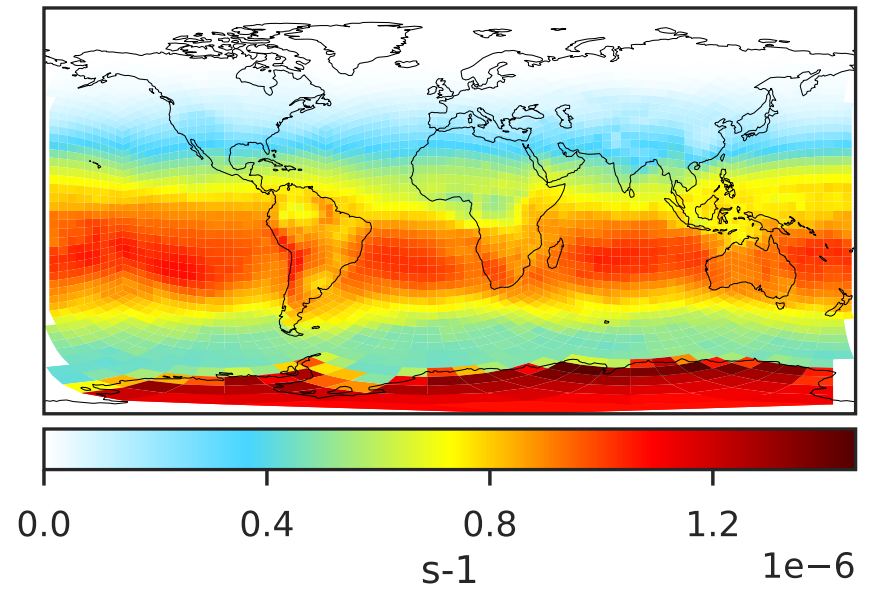
0.50 0.75 1.00 1.50 2.00
unitless

Jval_IPRNO3 (Jan2019)

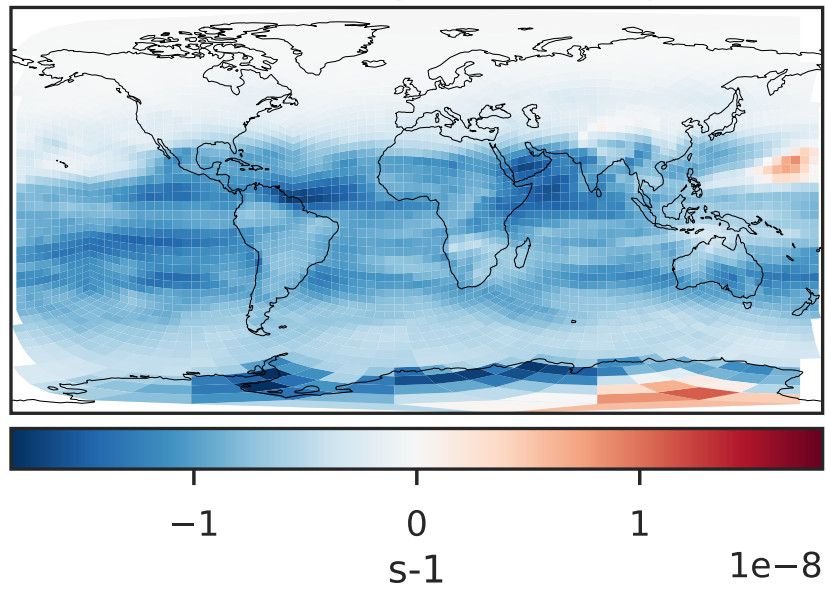
GCHP_14.0.0 (Ref)
c24



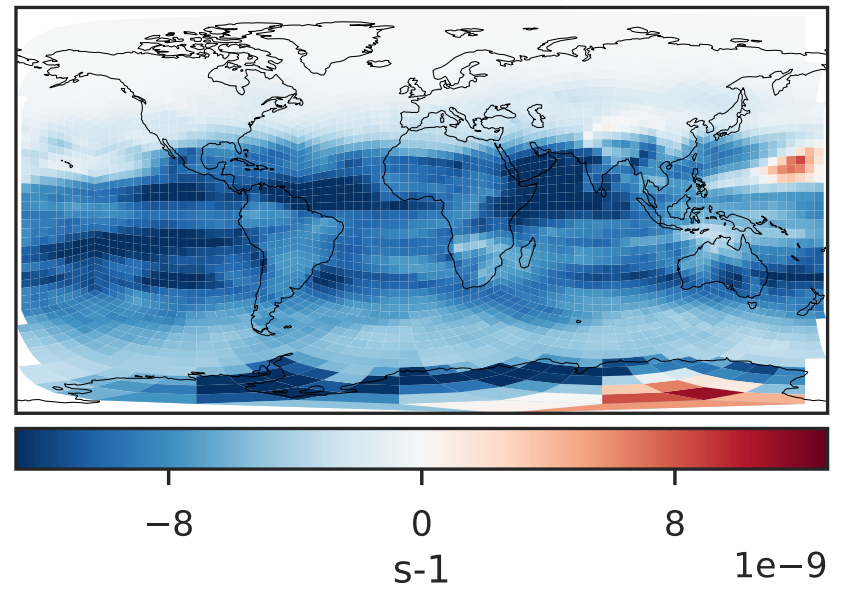
GCHP_14.2.0 (Dev)
c24



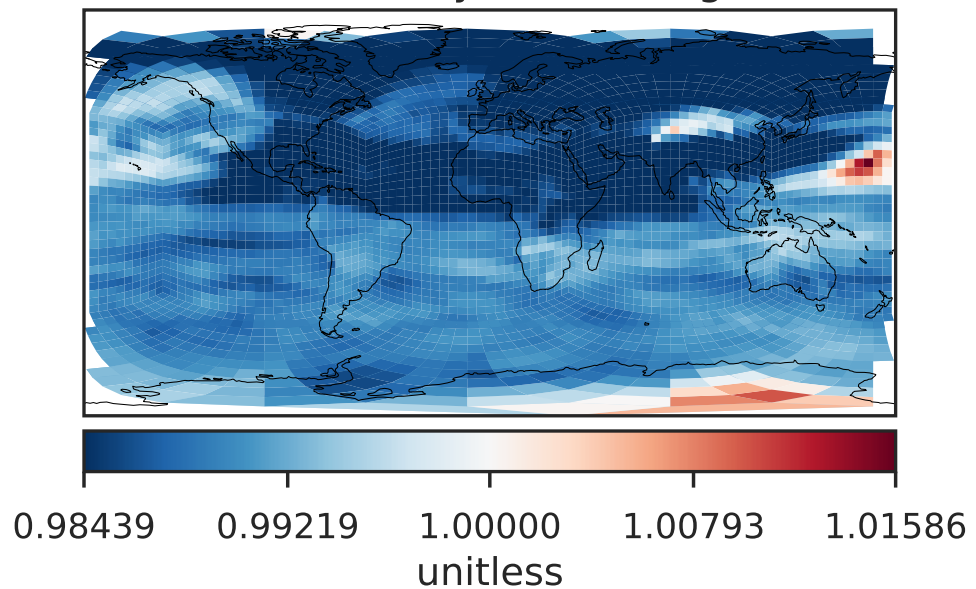
Difference
Dev - Ref, Dynamic Range



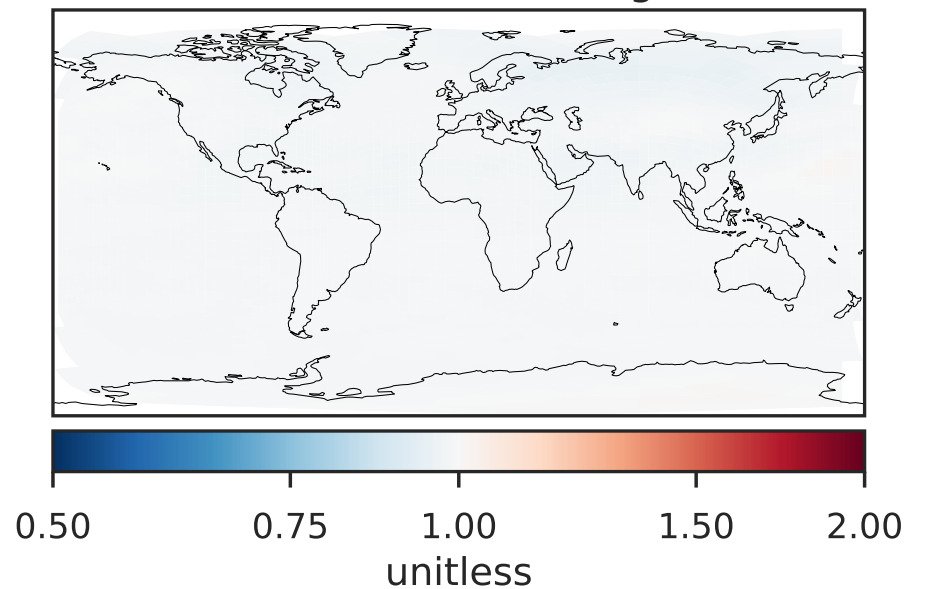
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

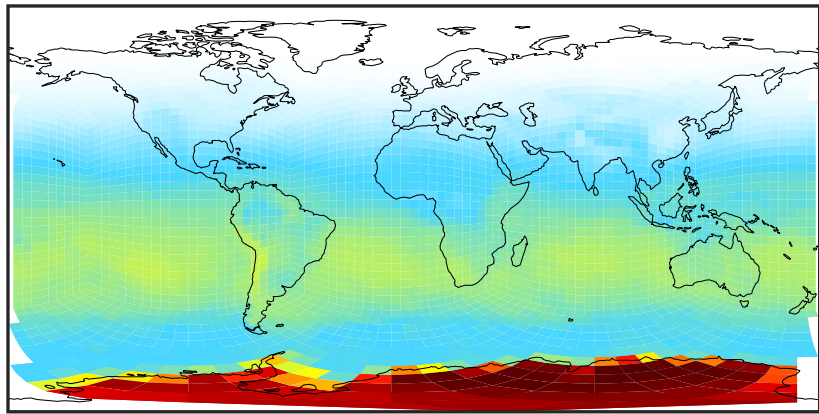


Ratio
Dev/Ref, Fixed Range



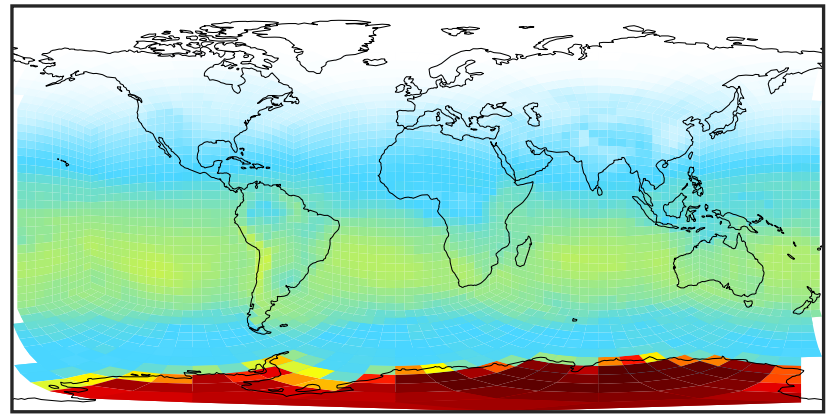
Jval_ITCN (Jan2019)

GCHP_14.0.0 (Ref)
c24



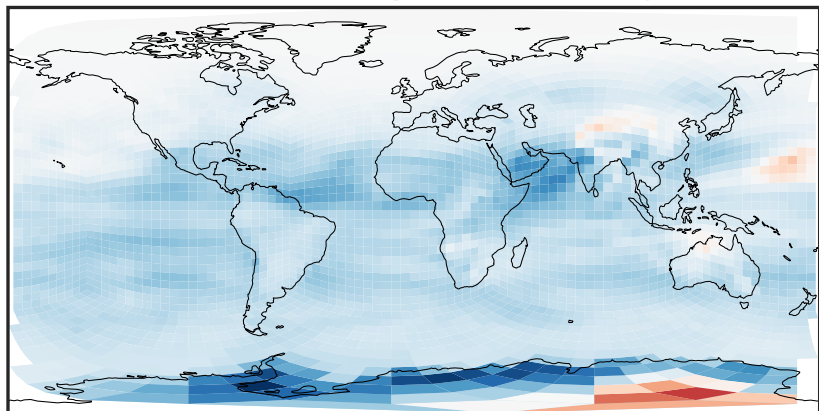
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



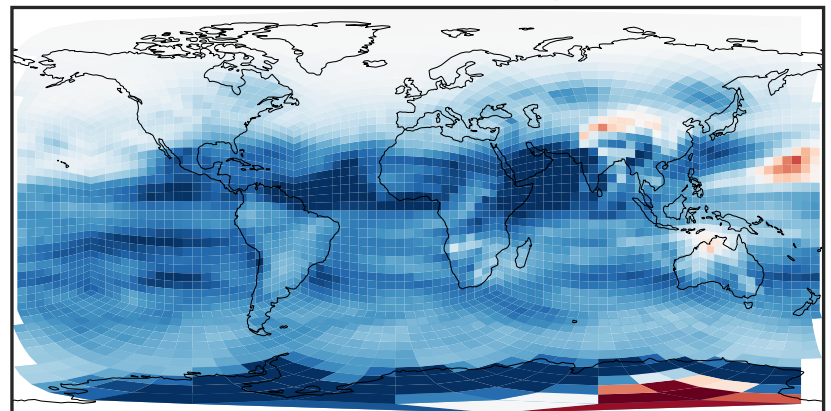
0.00000 0.00004 0.00008 0.00012
s-1

Difference
Dev - Ref, Dynamic Range



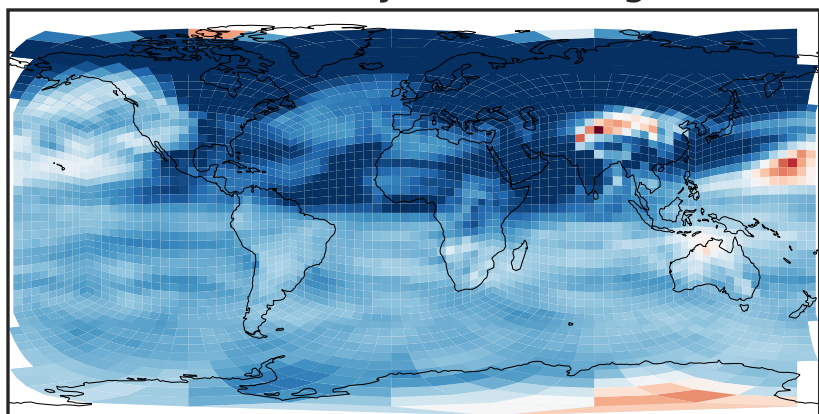
-4 0 4
s-1 10^{-7}

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



-2 0 2
s-1 10^{-7}

Ratio
Dev/Ref, Dynamic Range



0.99059 0.99529 1.00000 1.00475 1.00950
unitless

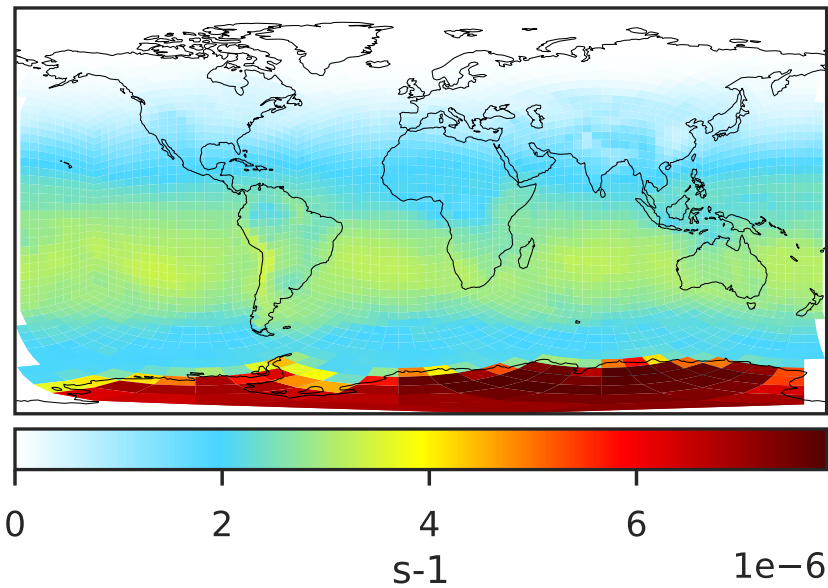
Ratio
Dev/Ref, Fixed Range



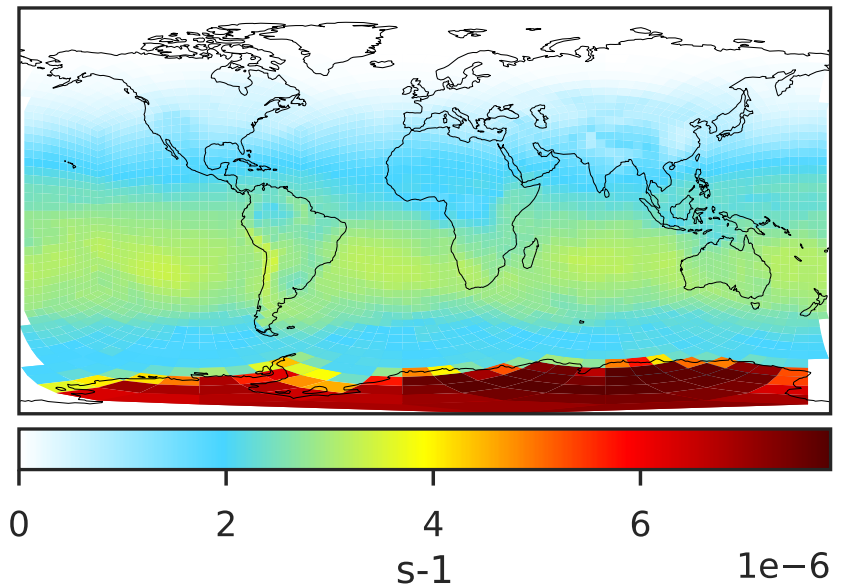
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ITHN (Jan2019)

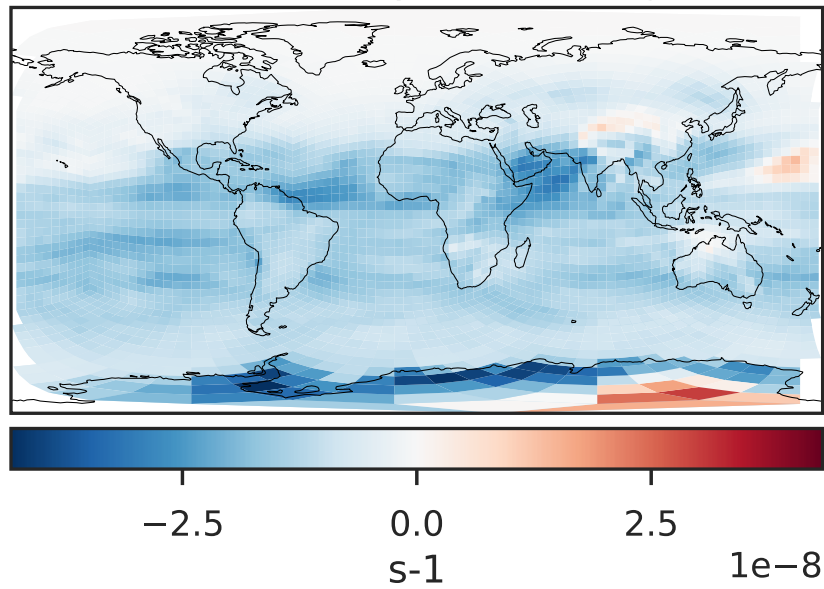
GCHP_14.0.0 (Ref)
c24



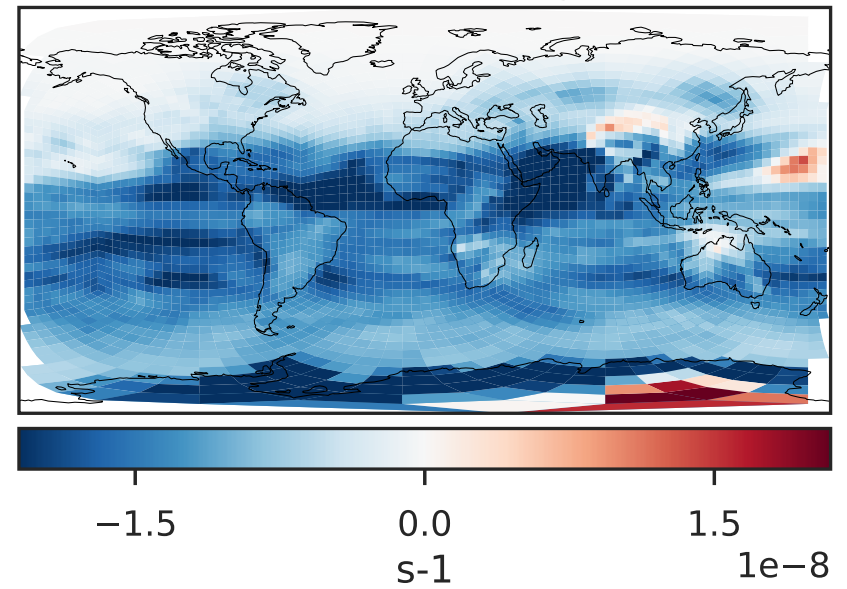
GCHP_14.2.0 (Dev)
c24



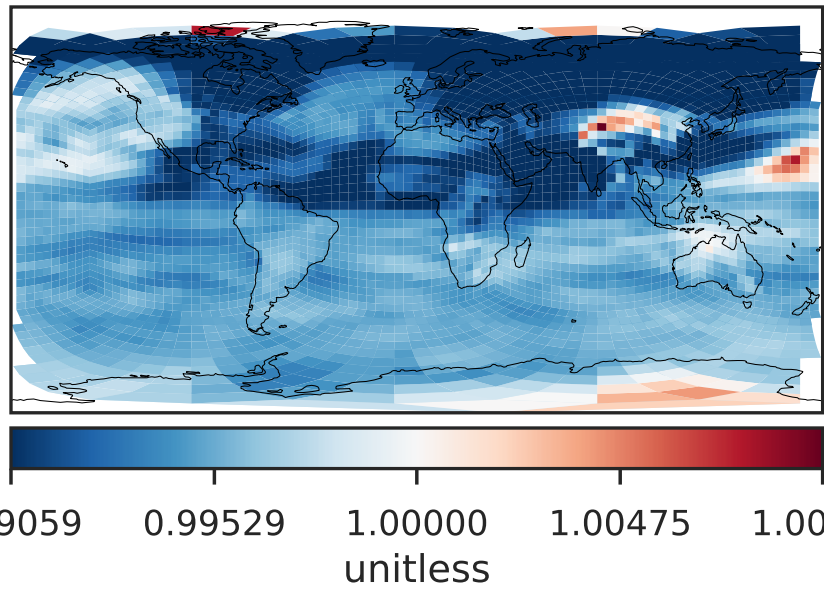
Difference
Dev - Ref, Dynamic Range



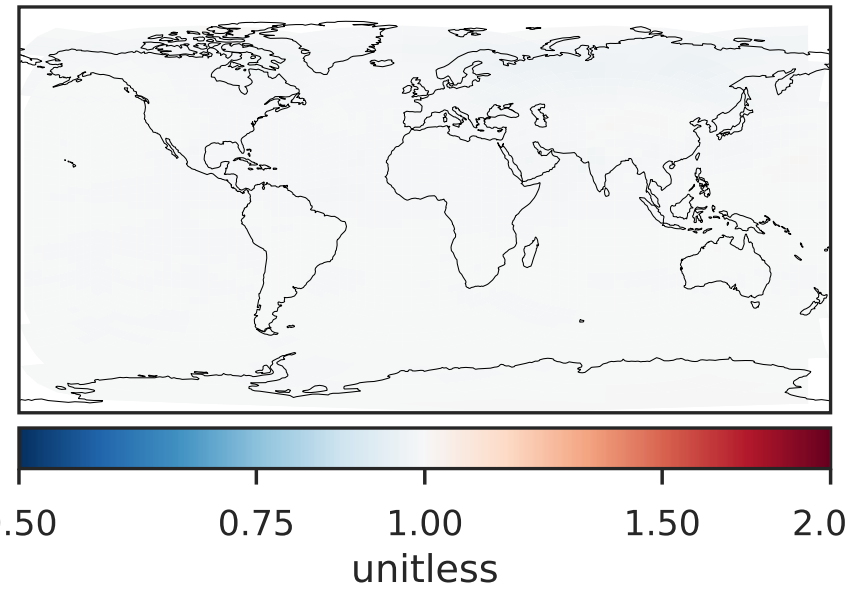
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

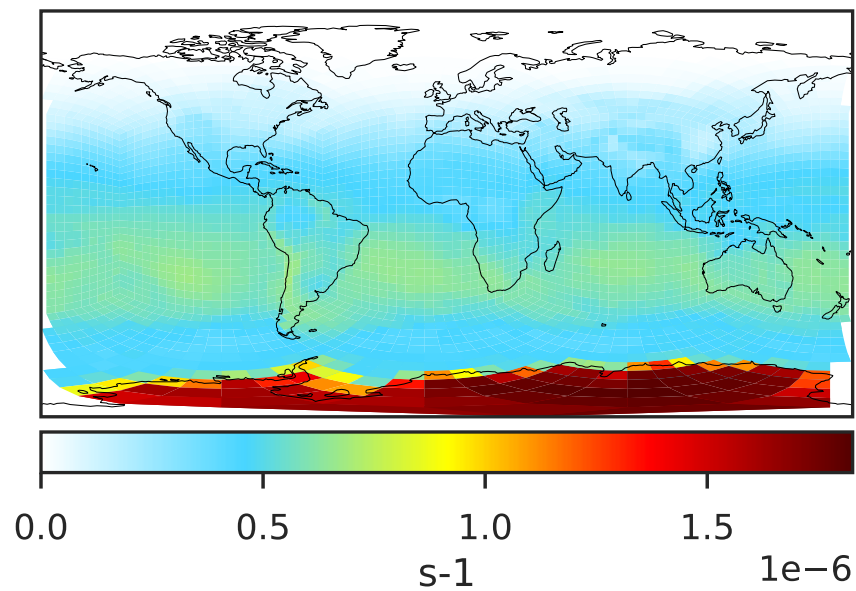


Ratio
Dev/Ref, Fixed Range

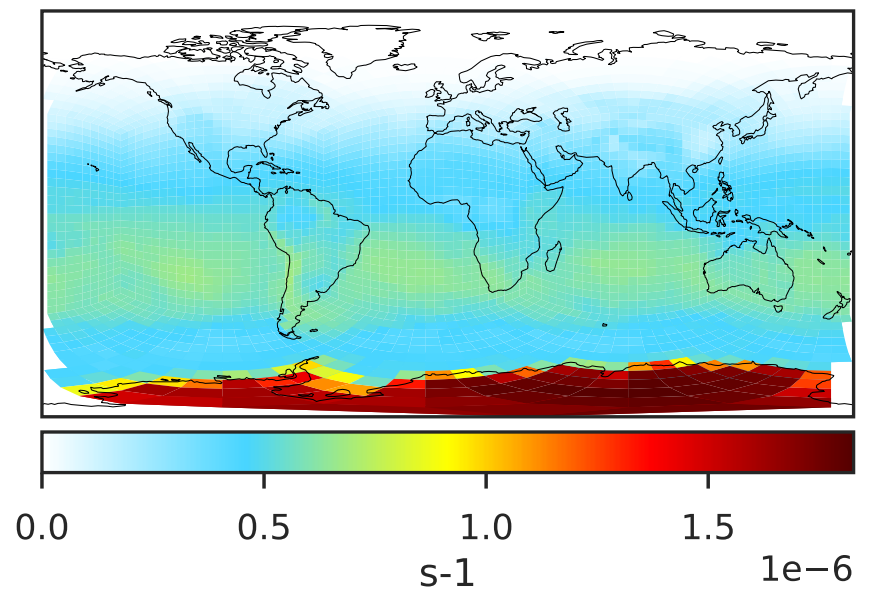


Jval_MACR (Jan2019)

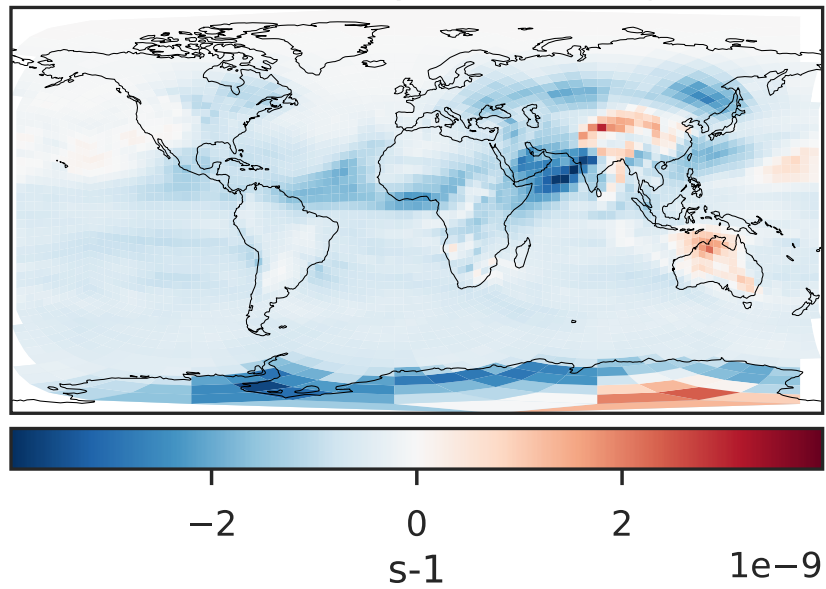
GCHP_14.0.0 (Ref)
c24



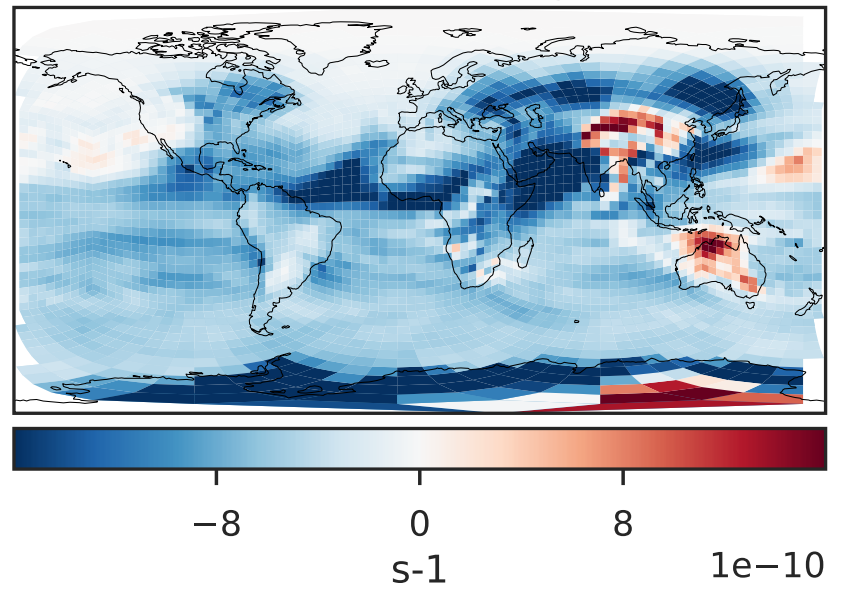
GCHP_14.2.0 (Dev)
c24



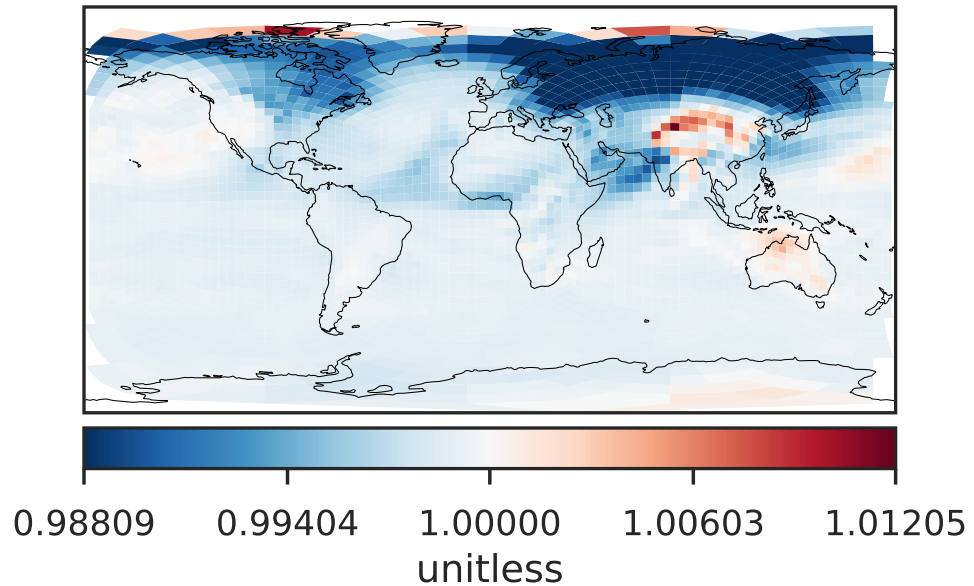
Difference
Dev - Ref, Dynamic Range



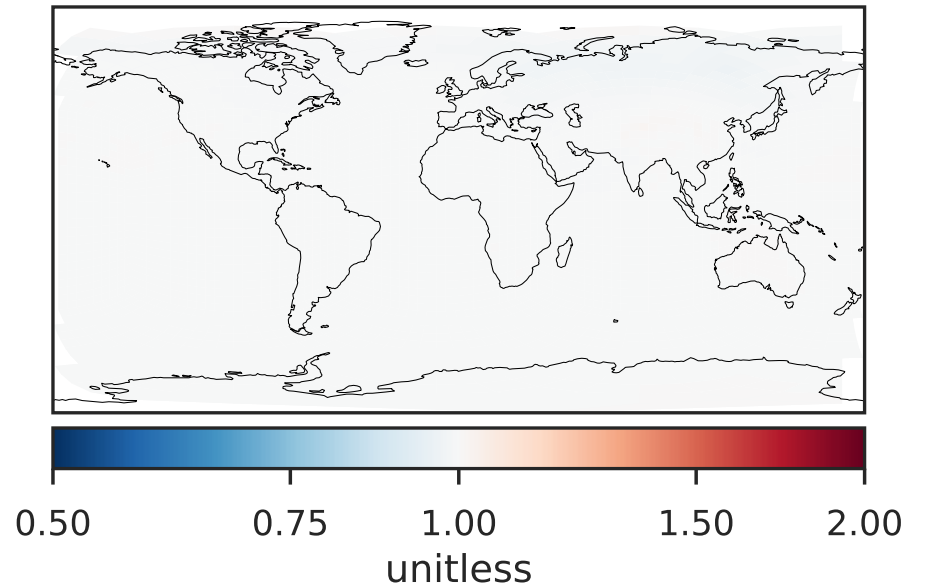
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

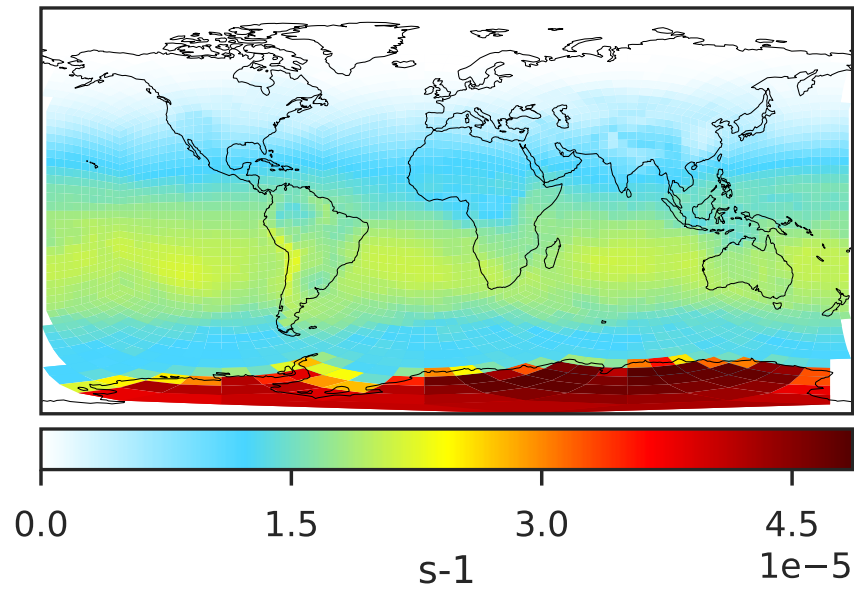


Ratio
Dev/Ref, Fixed Range

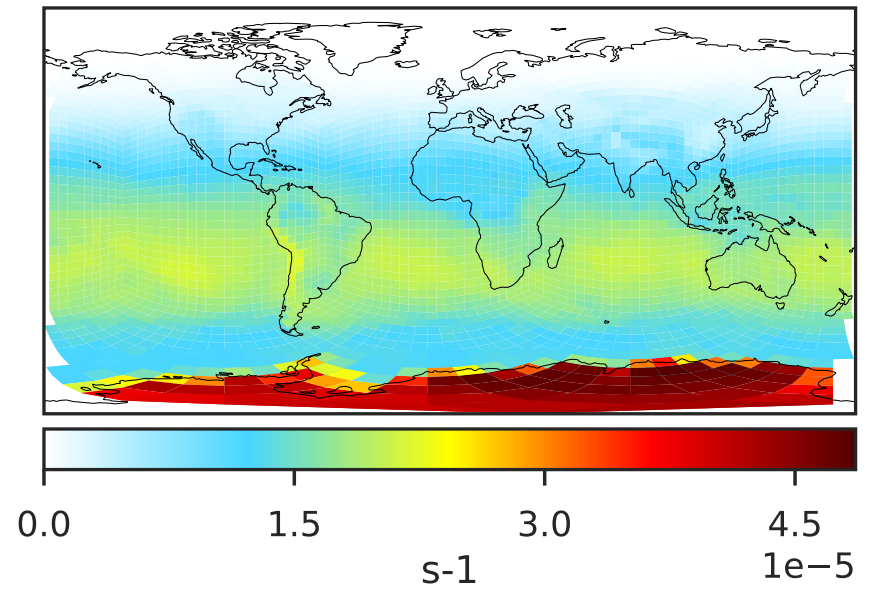


Jval_MACR100H (Jan2019)

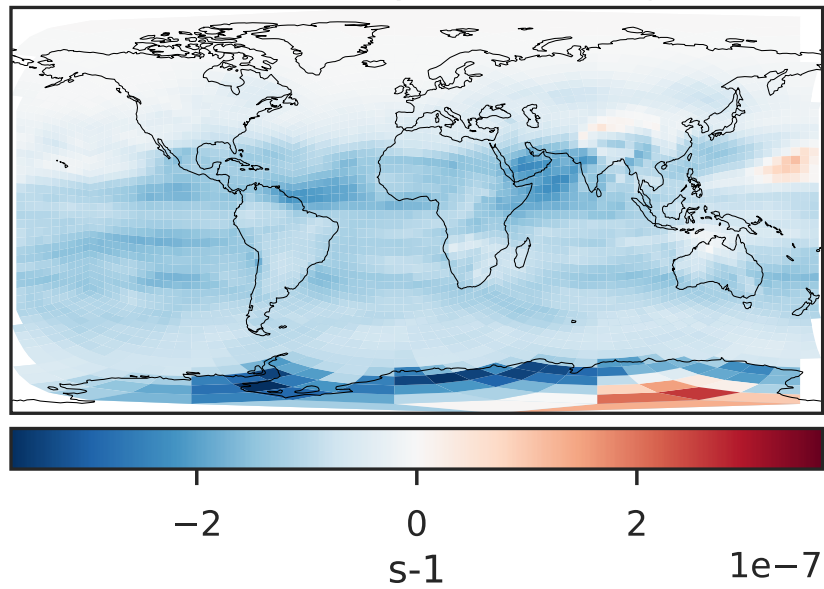
GCHP_14.0.0 (Ref)
c24



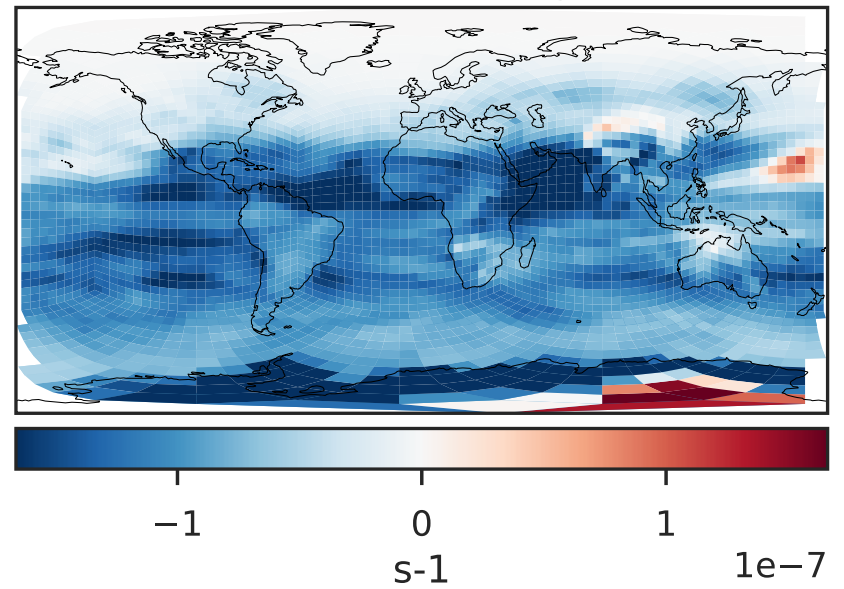
GCHP_14.2.0 (Dev)
c24



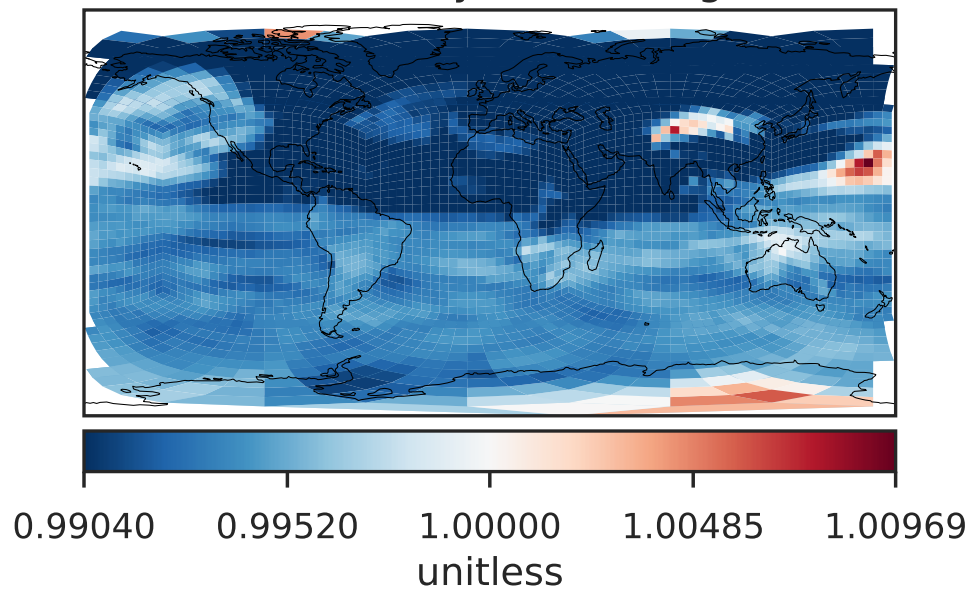
Difference
Dev - Ref, Dynamic Range



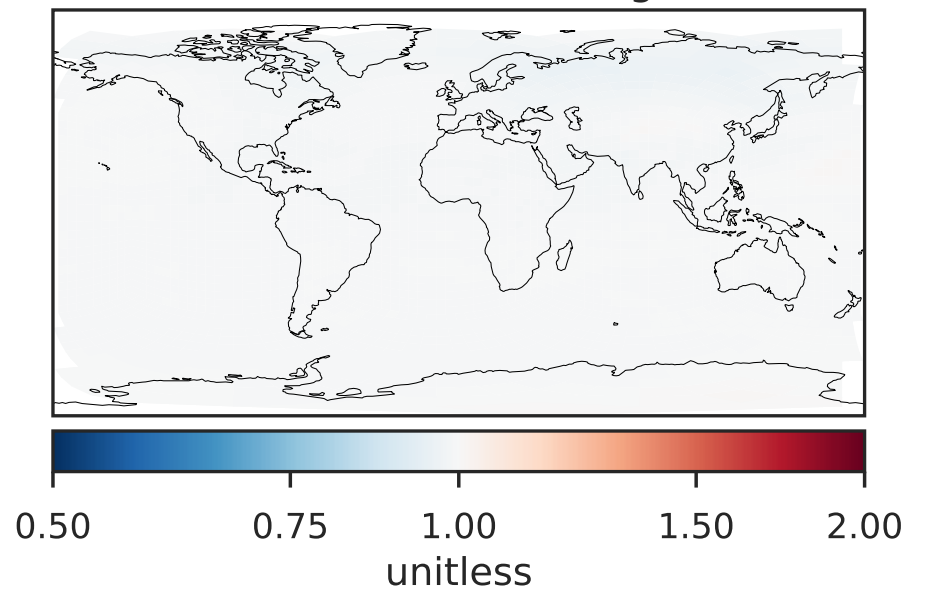
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

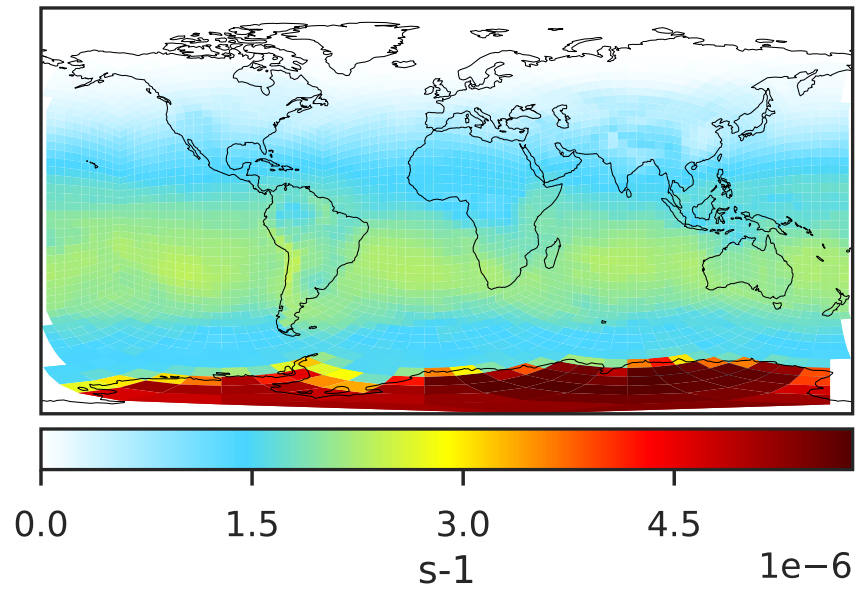


Ratio
Dev/Ref, Fixed Range

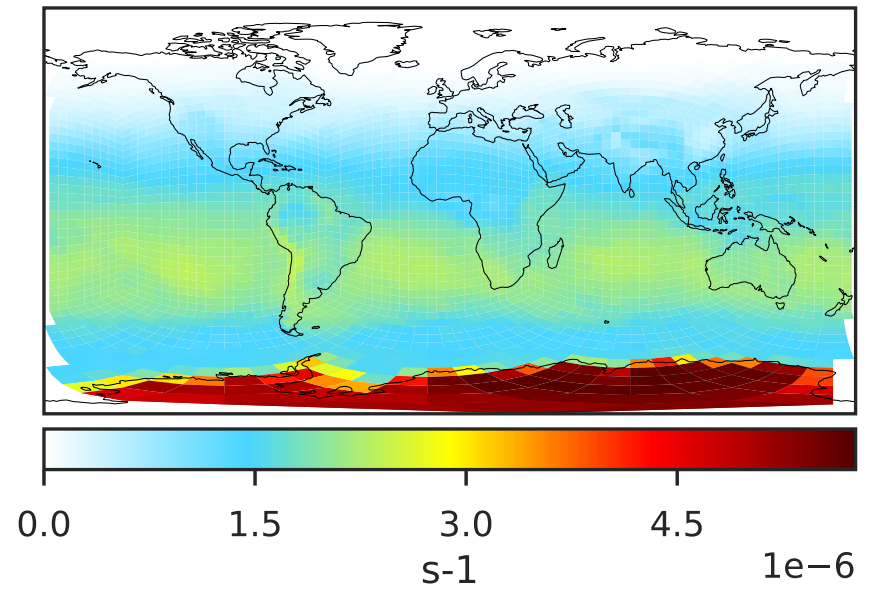


Jval_MAP (Jan2019)

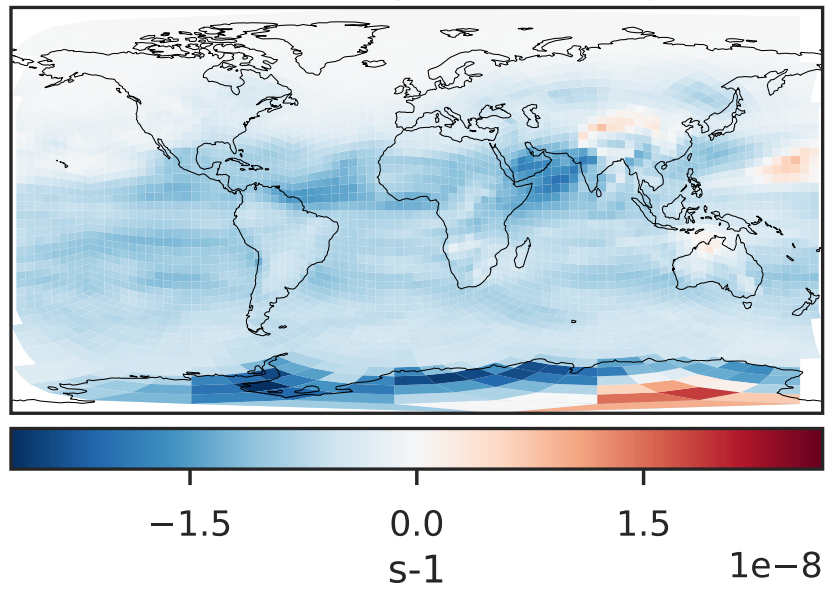
GCHP_14.0.0 (Ref)
c24



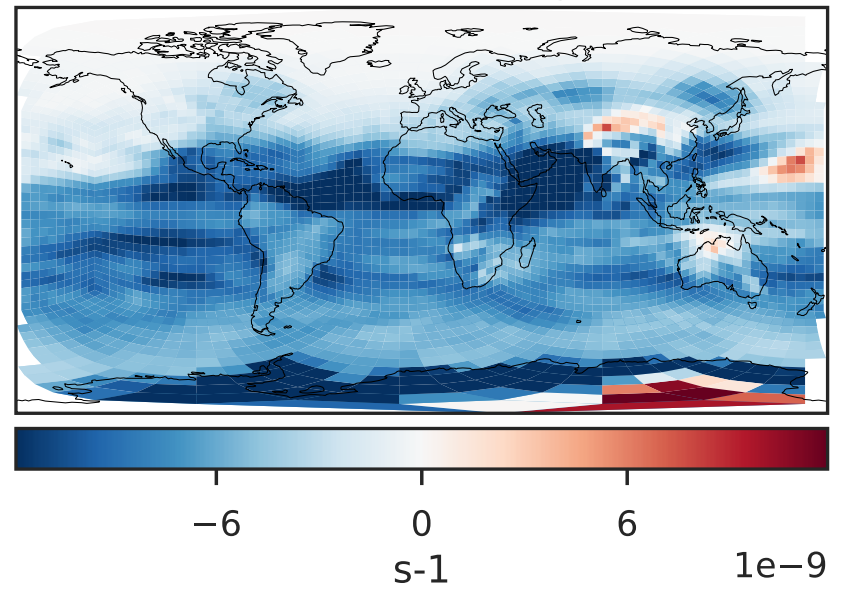
GCHP_14.2.0 (Dev)
c24



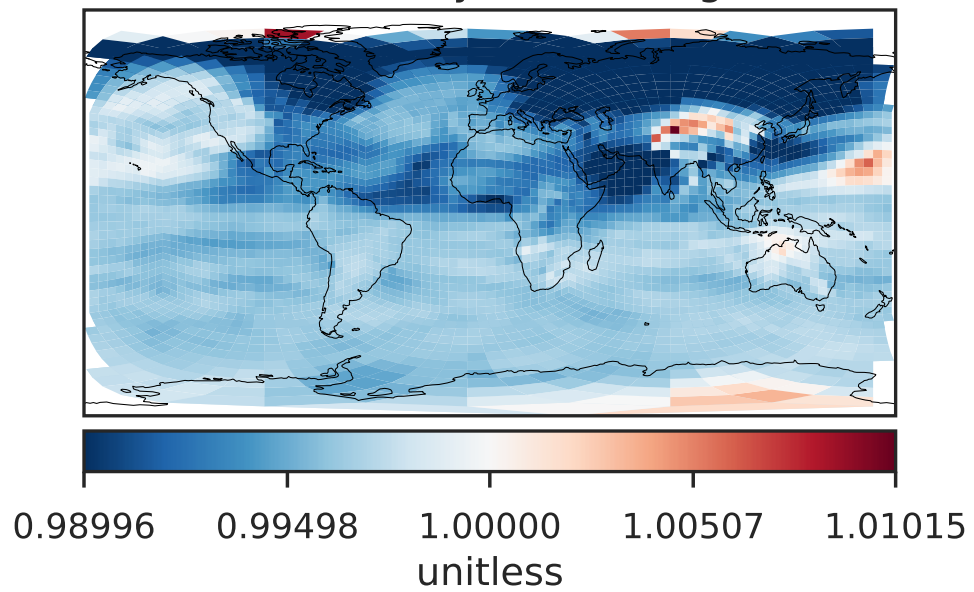
Difference
Dev - Ref, Dynamic Range



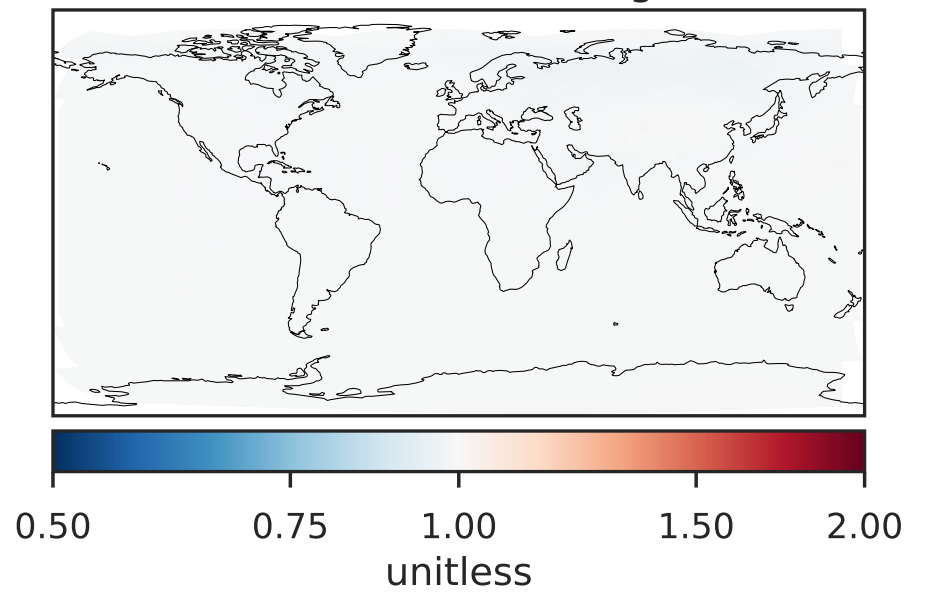
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

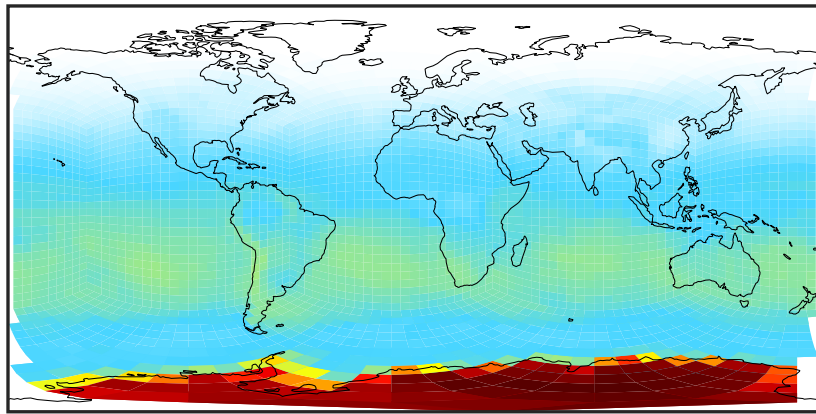


Ratio
Dev/Ref, Fixed Range



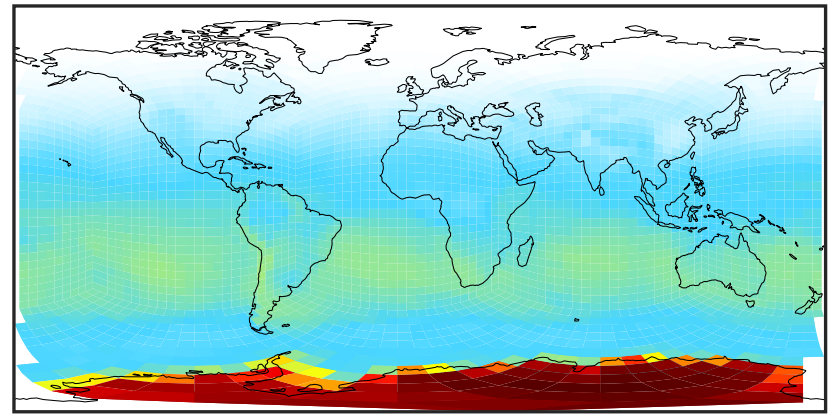
Jval_MCRENOL (Jan2019)

GCHP_14.0.0 (Ref)
c24



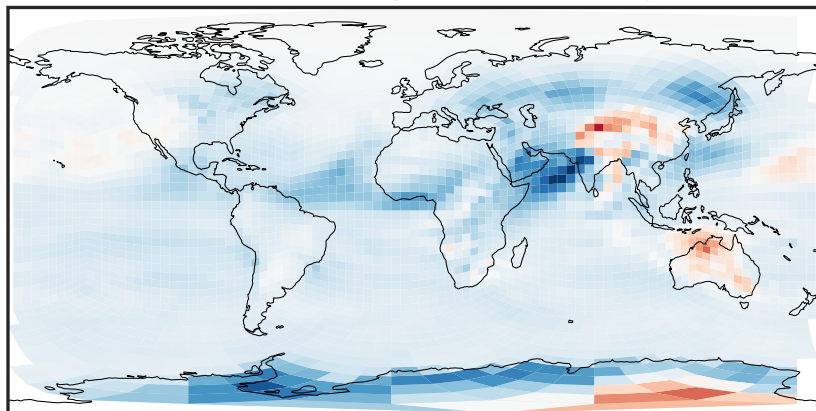
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



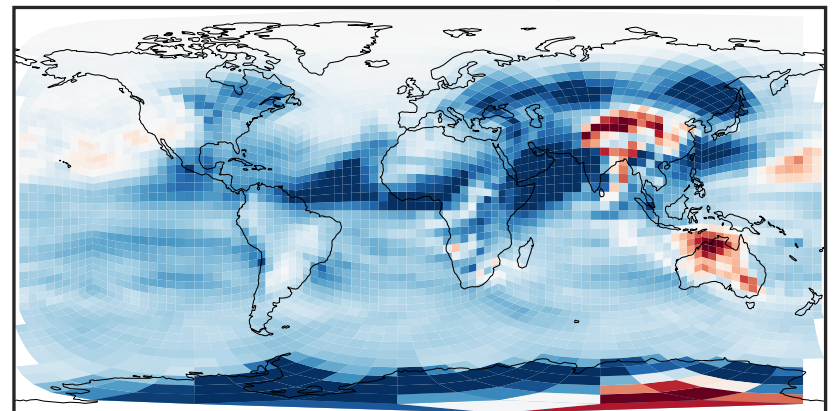
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



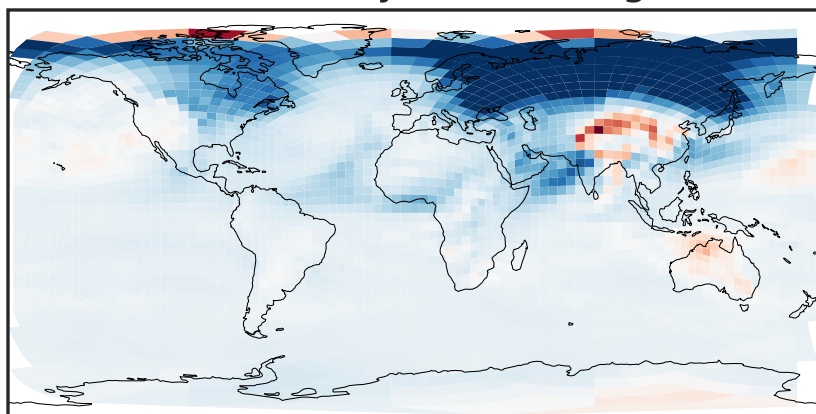
-4 0 4
s-1 1e-7

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



-1.5 0.0 1.5
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98806 0.99403 1.00000 1.00604 1.01209
unitless

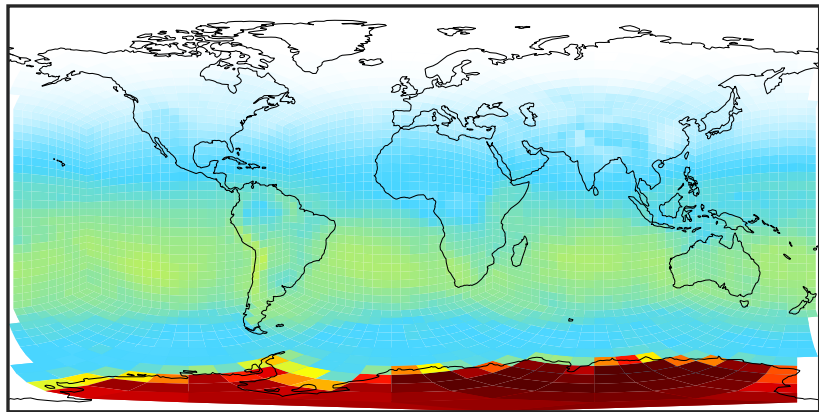
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

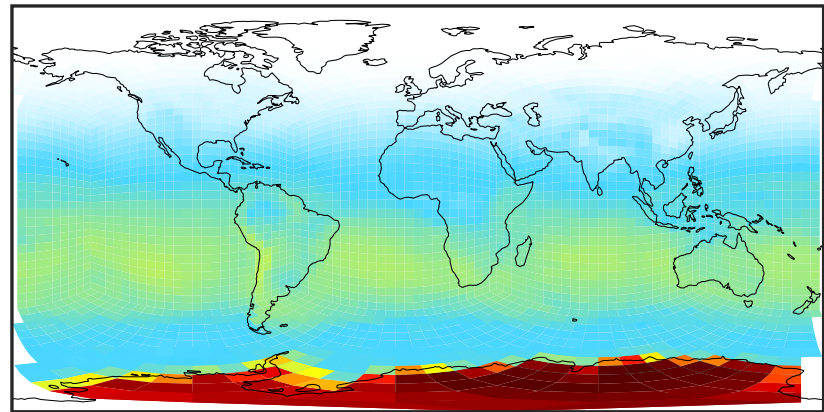
Jval_MCRHN (Jan2019)

GCHP_14.0.0 (Ref)
c24



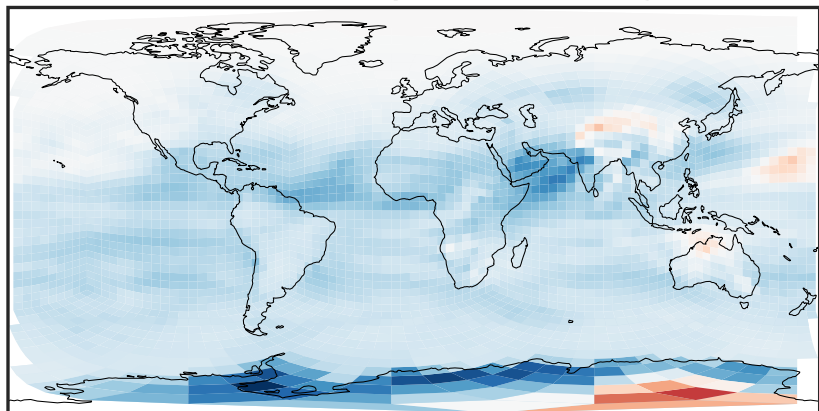
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



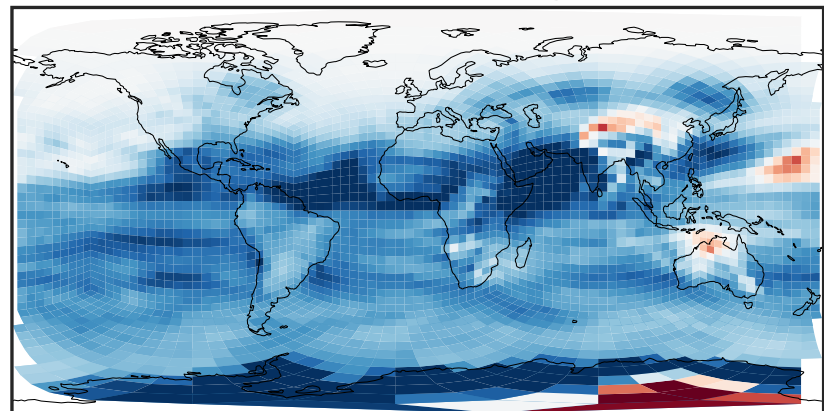
0.0000 0.0001 0.0002 0.0003
s-1

Difference
Dev - Ref, Dynamic Range



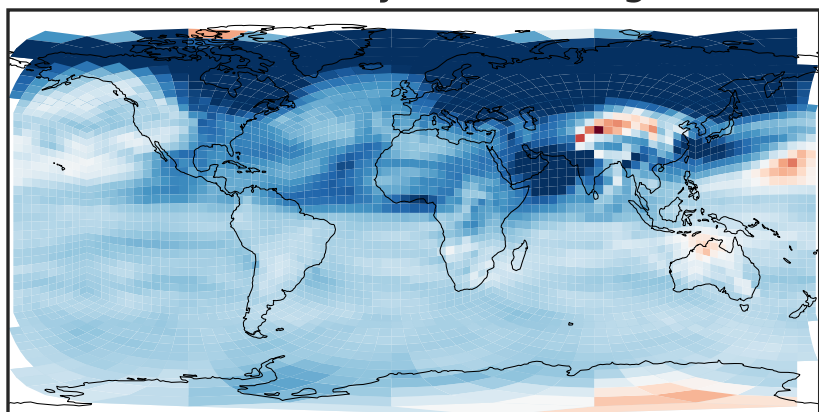
-1 0 1
s-1 1e-6

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



-4 0 4
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98959 0.99479 1.00000 1.00526 1.01052
unitless

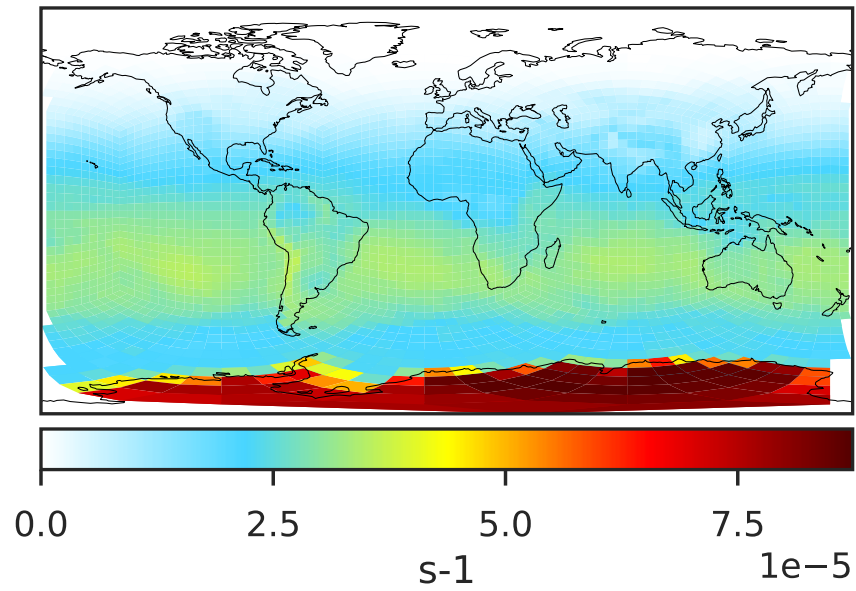
Ratio
Dev/Ref, Fixed Range



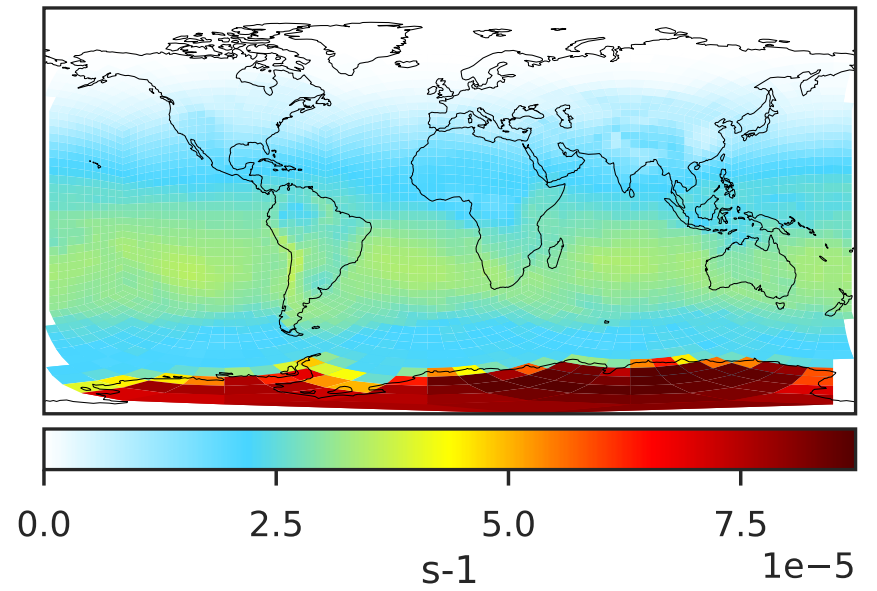
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MCRHNB (Jan2019)

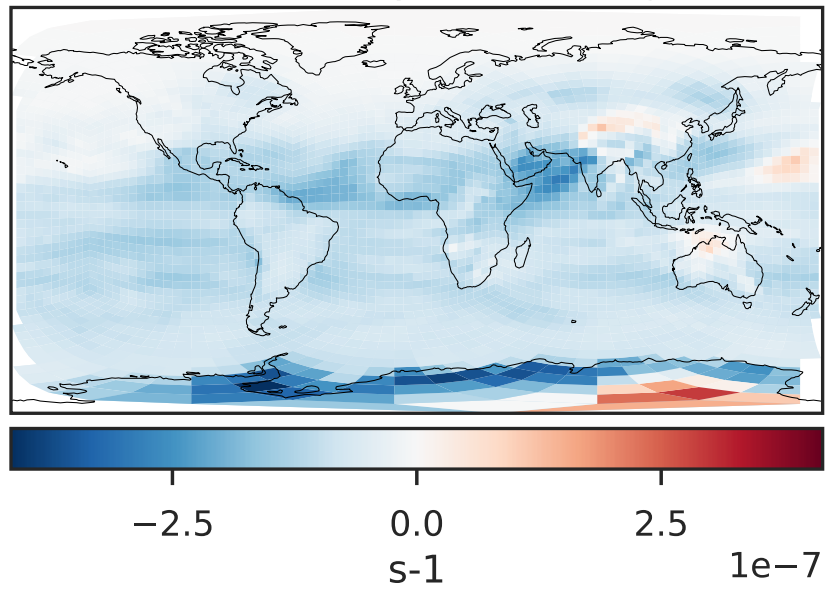
GCHP_14.0.0 (Ref)
c24



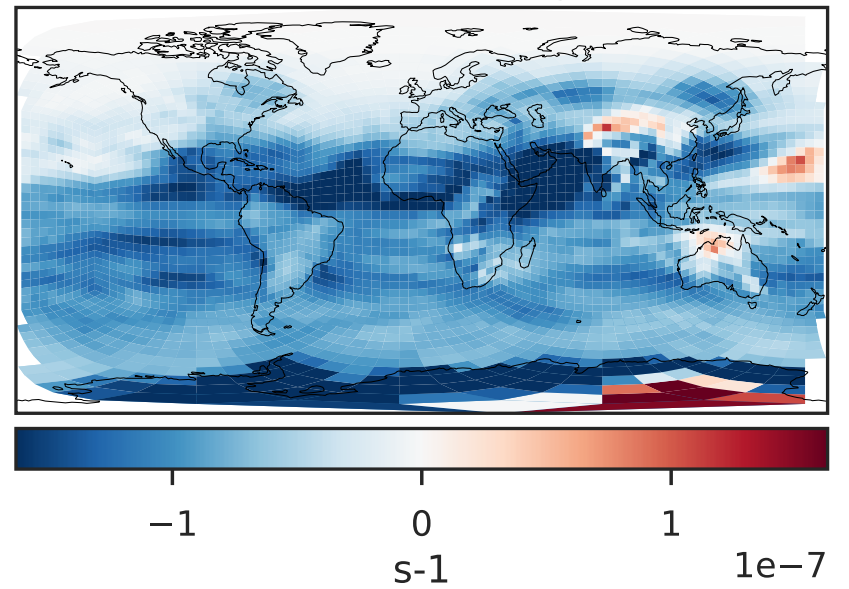
GCHP_14.2.0 (Dev)
c24



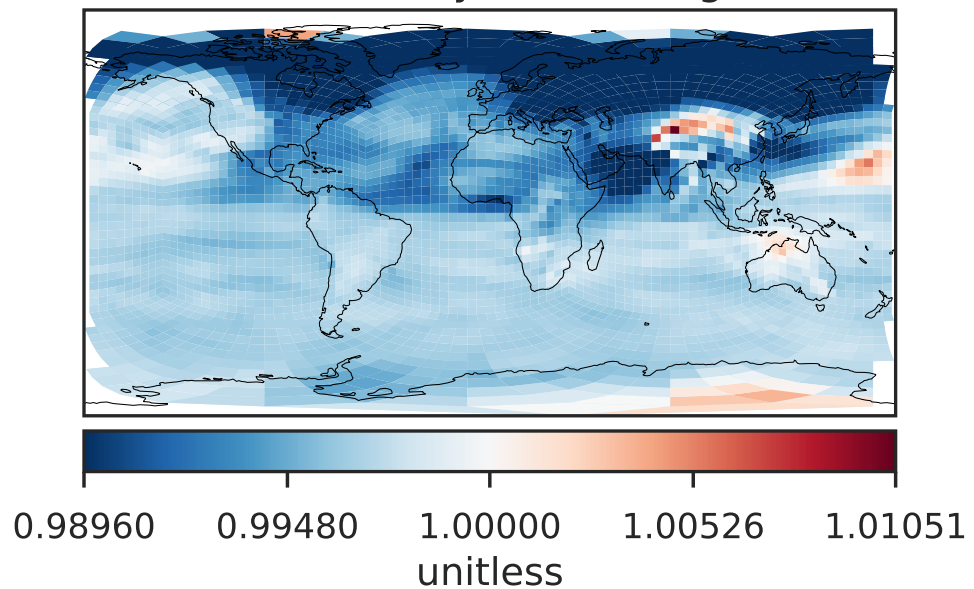
Difference
Dev - Ref, Dynamic Range



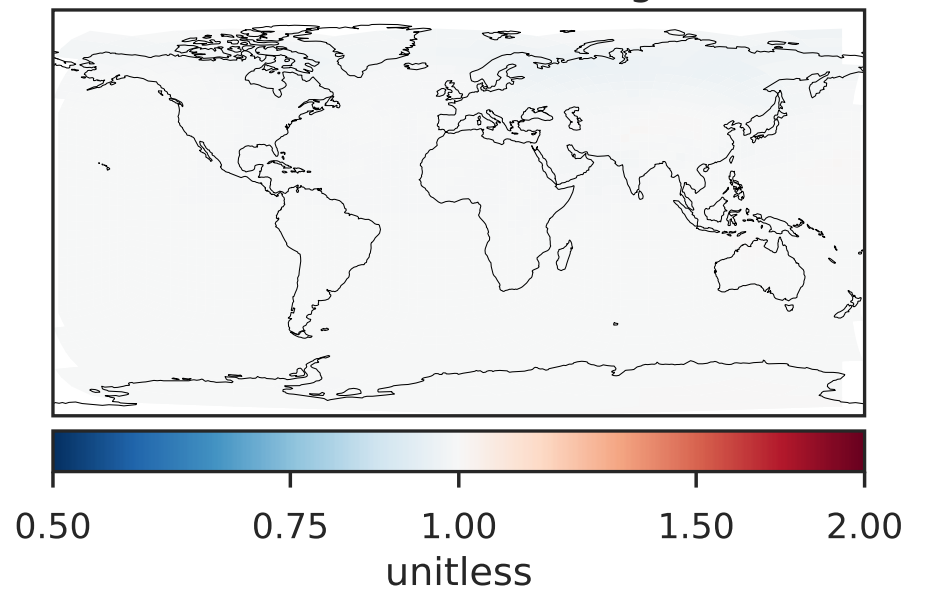
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

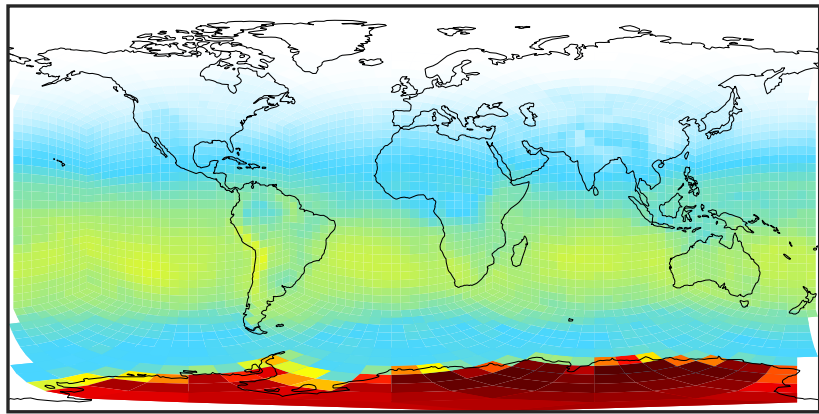


Ratio
Dev/Ref, Fixed Range



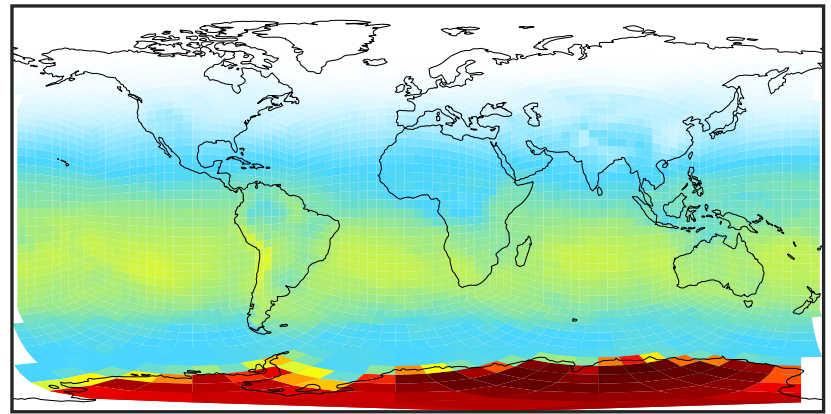
Jval_MCRHP (Jan2019)

GCHP_14.0.0 (Ref)
c24



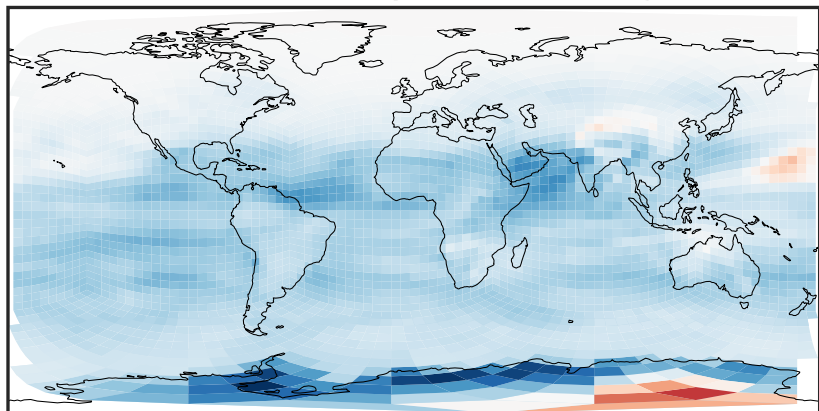
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



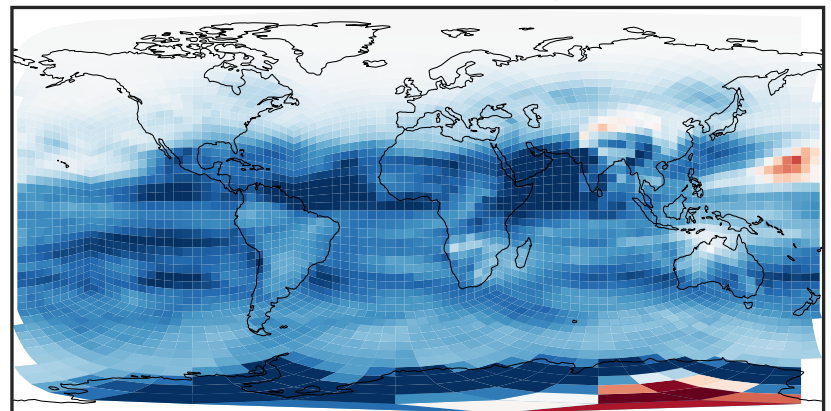
0.0 1.5 3.0 4.5
s-1 $1e-5$

Difference
Dev - Ref, Dynamic Range



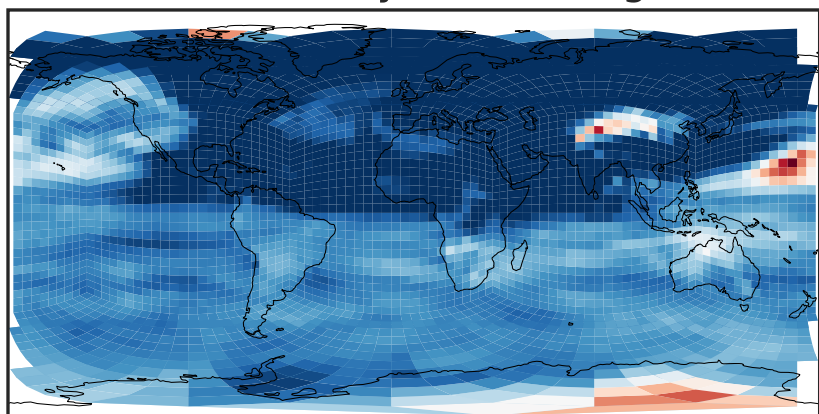
-2 0 2
s-1 $1e-7$

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



-1 0 1
s-1 $1e-7$

Ratio
Dev/Ref, Dynamic Range



0.99040 0.99520 1.00000 1.00485 1.00969
unitless

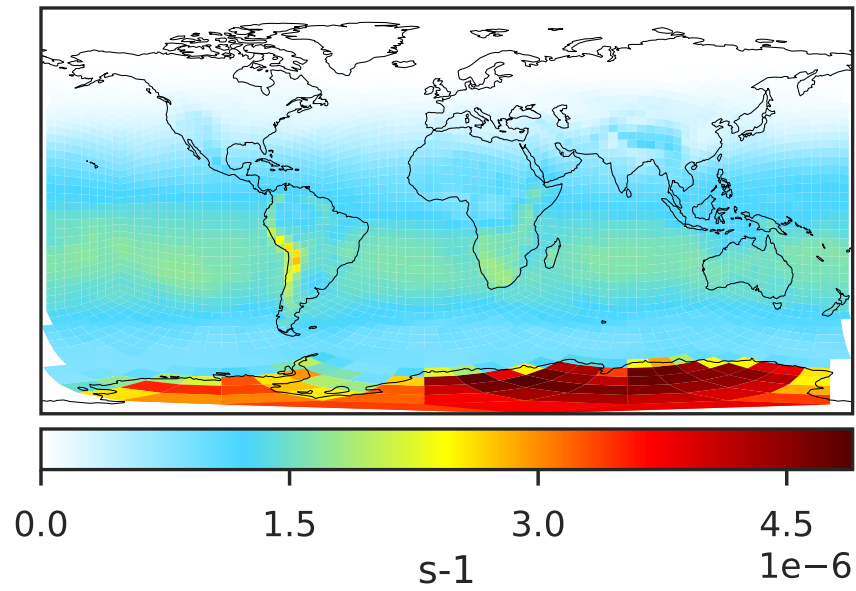
Ratio
Dev/Ref, Fixed Range



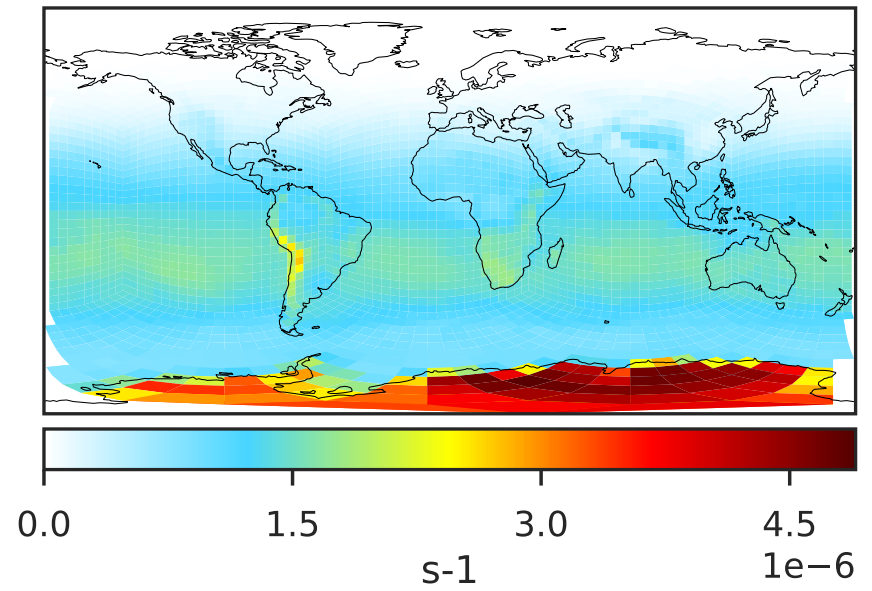
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MEK (Jan2019)

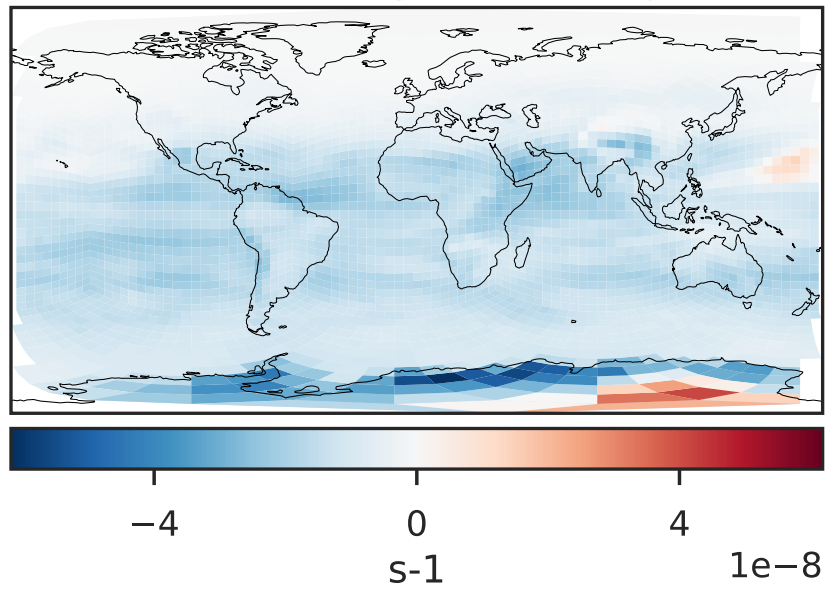
GCHP_14.0.0 (Ref)
c24



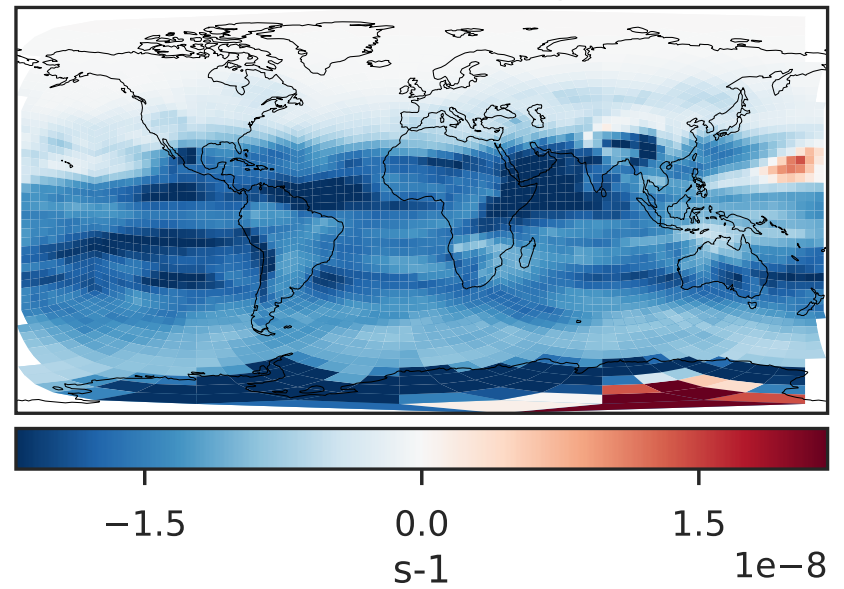
GCHP_14.2.0 (Dev)
c24



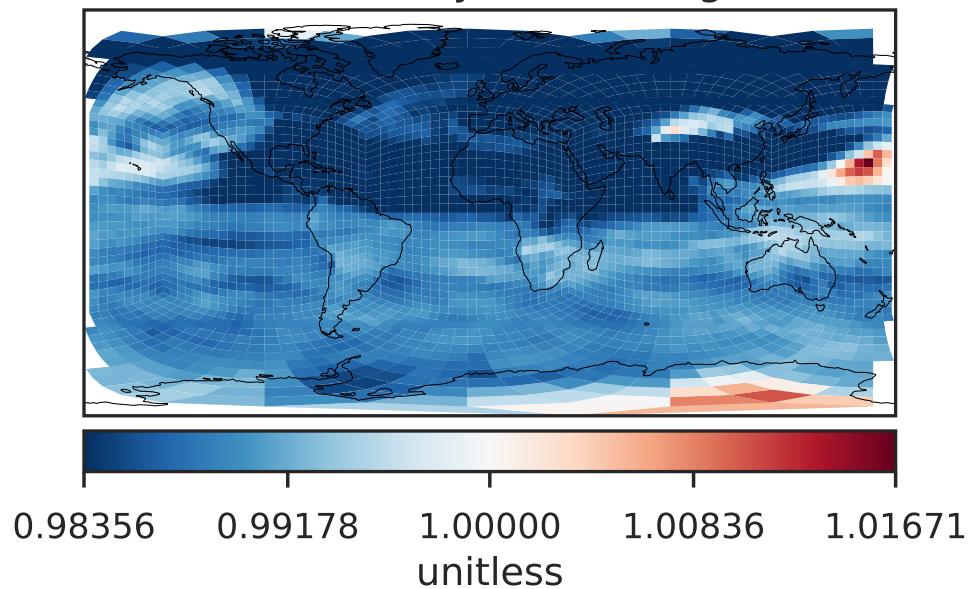
Difference
Dev - Ref, Dynamic Range



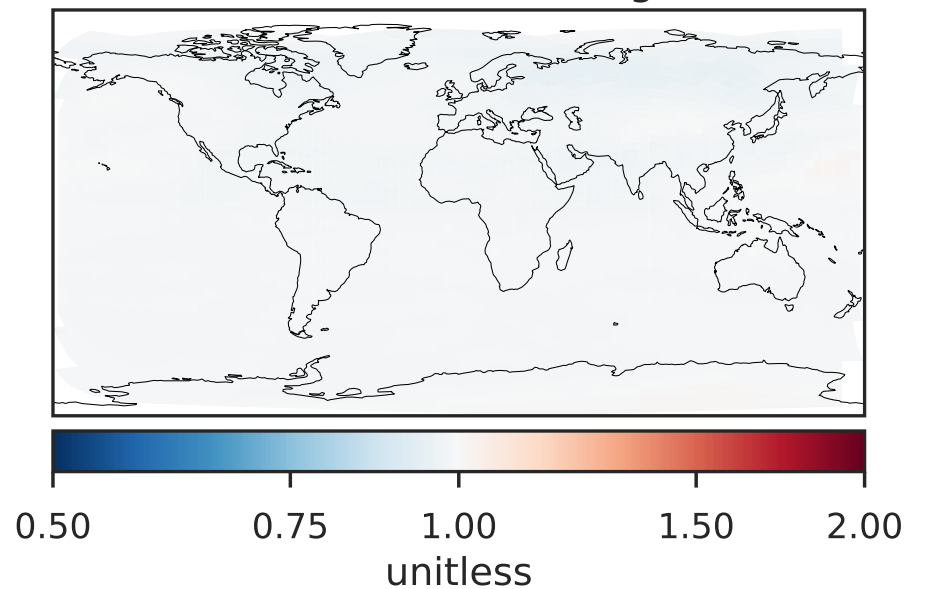
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

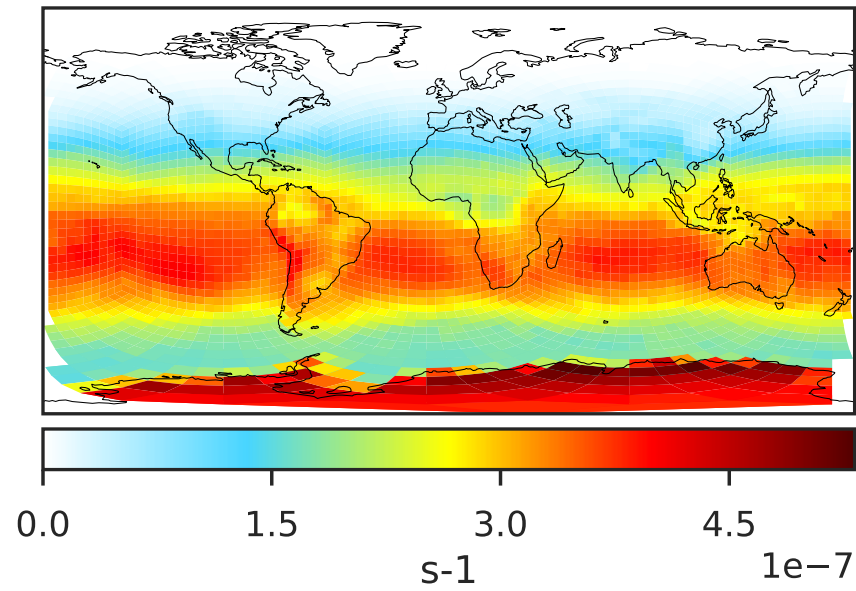


Ratio
Dev/Ref, Fixed Range

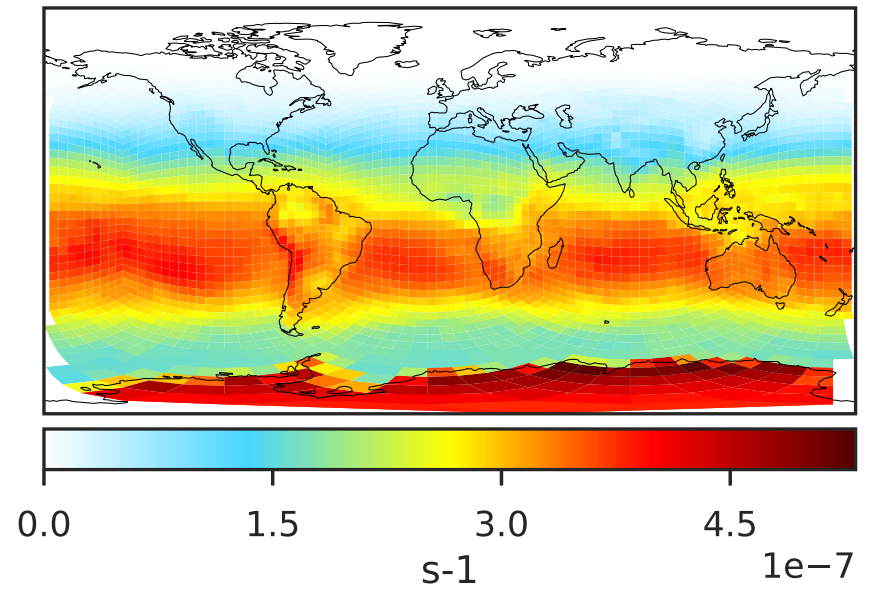


Jval_MENO3 (Jan2019)

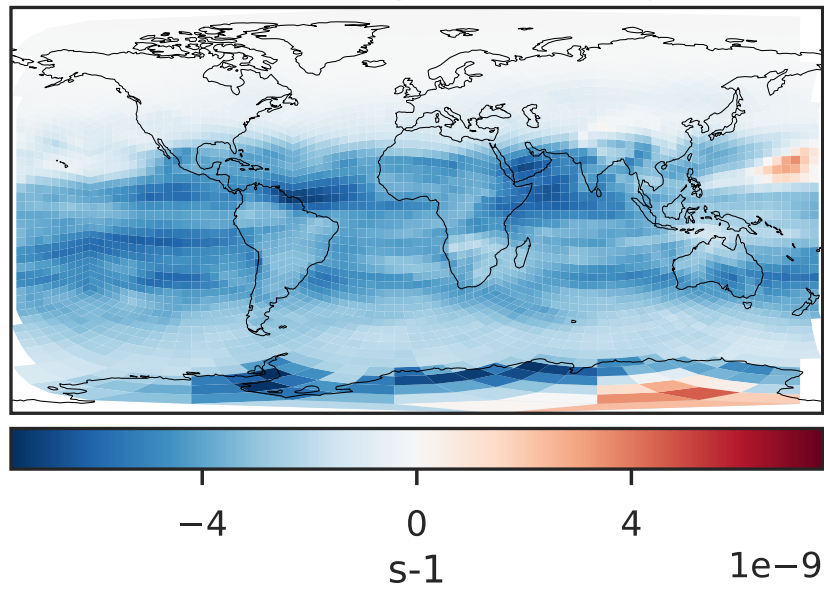
GCHP_14.0.0 (Ref)
c24



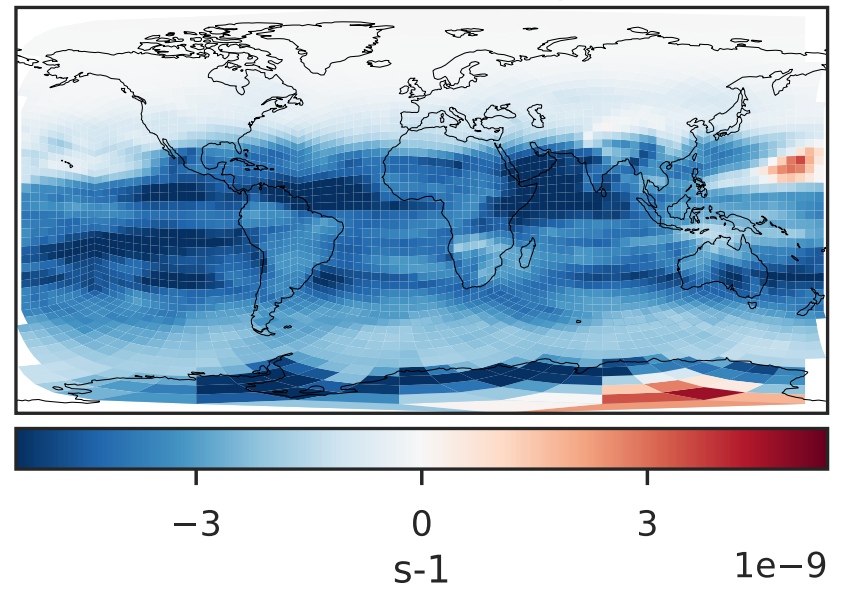
GCHP_14.2.0 (Dev)
c24



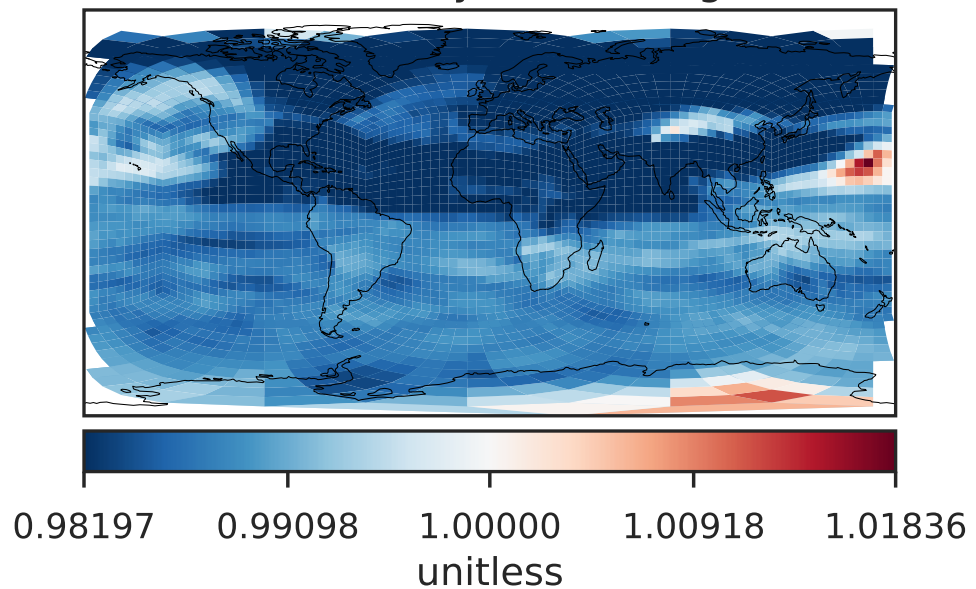
Difference
Dev - Ref, Dynamic Range



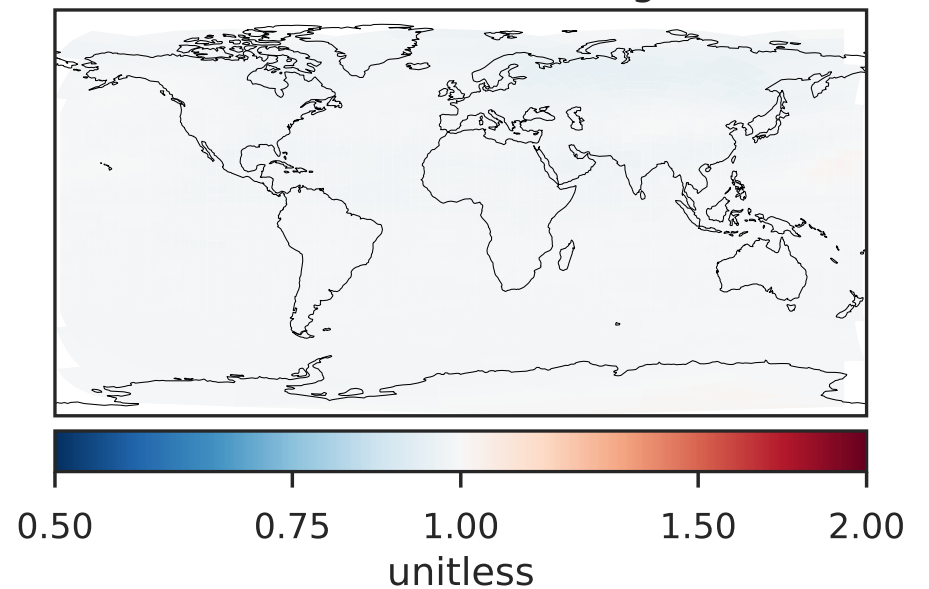
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

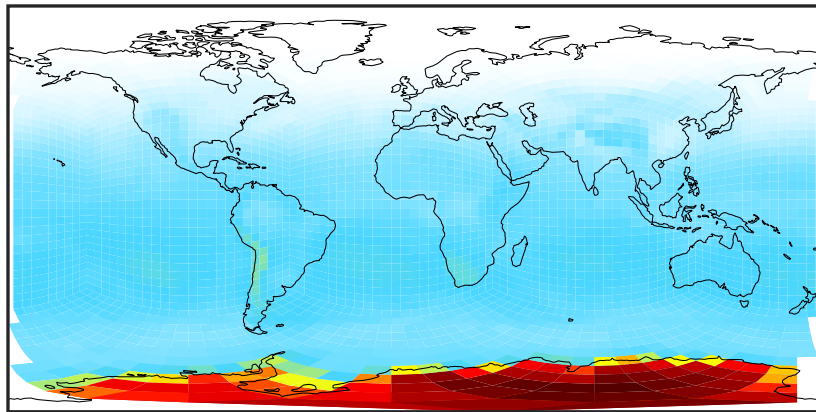


Ratio
Dev/Ref, Fixed Range



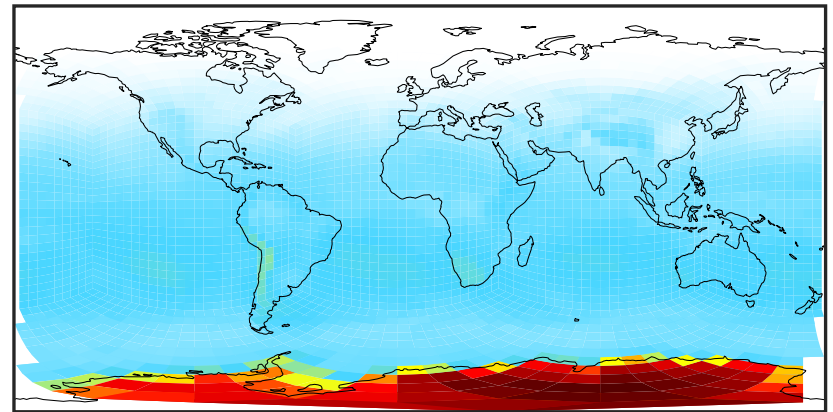
Jval_MGLY (Jan2019)

GCHP_14.0.0 (Ref)
c24



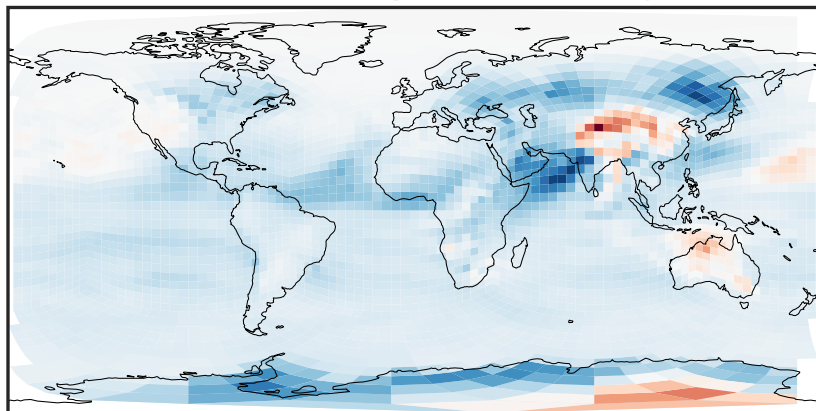
0.00000 0.00008 0.00016 0.00024
s-1

GCHP_14.2.0 (Dev)
c24



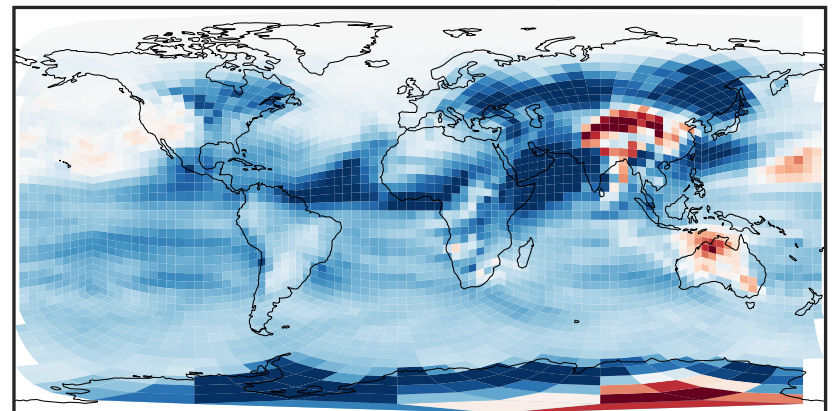
0.00000 0.00008 0.00016 0.00024
s-1

Difference
Dev - Ref, Dynamic Range



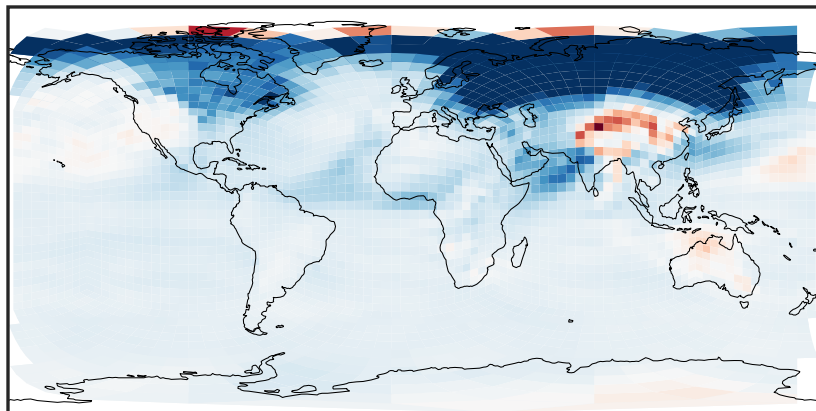
-2.5 0.0 2.5
s-1 1e-7

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



-1 0 1
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98935 0.99467 1.00000 1.00538 1.01077
unitless

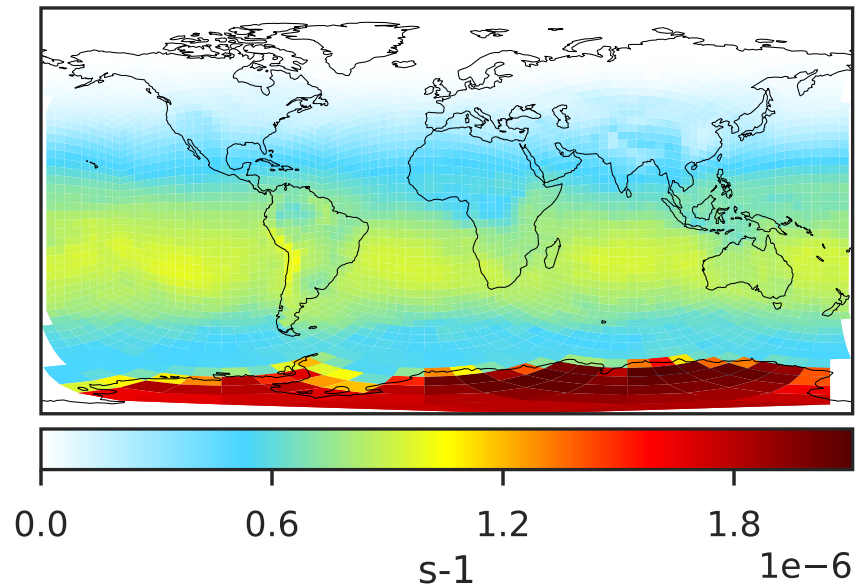
Ratio
Dev/Ref, Fixed Range



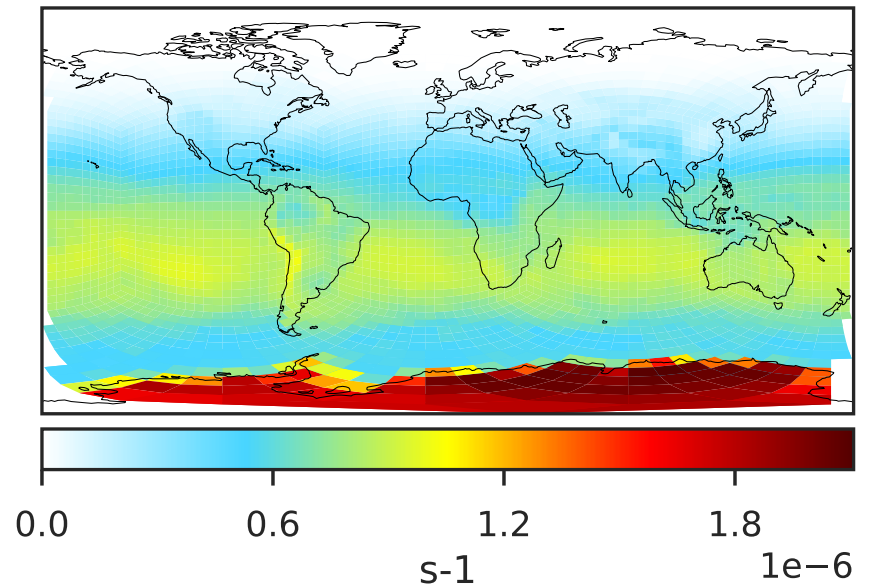
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MONITS (Jan2019)

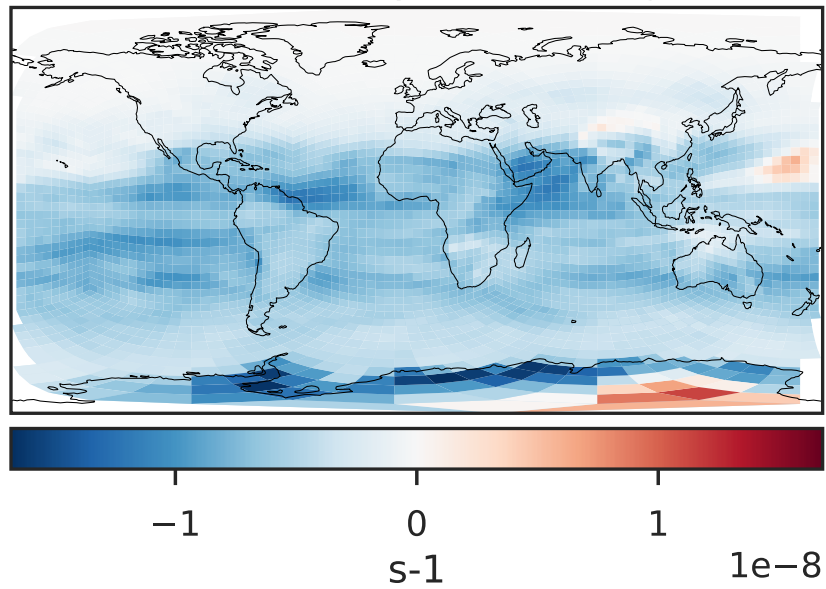
GCHP_14.0.0 (Ref)
c24



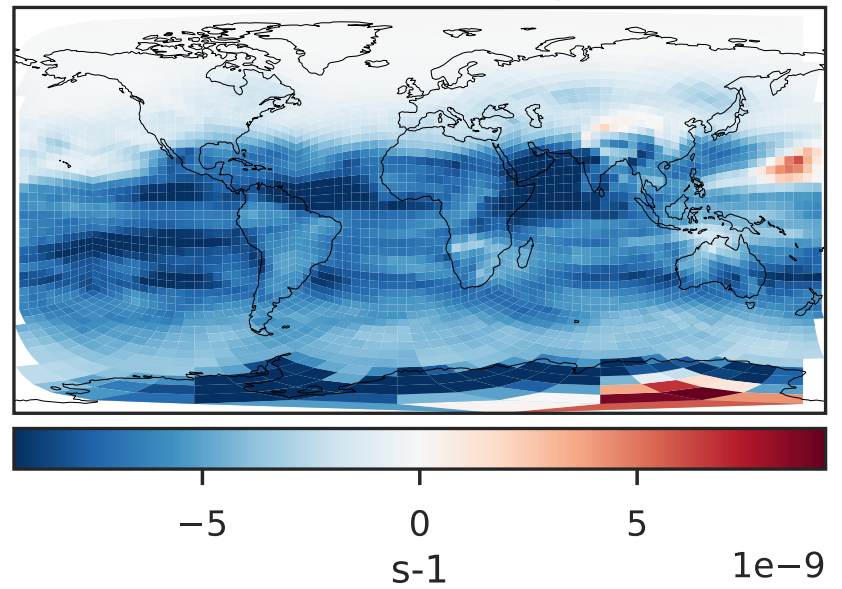
GCHP_14.2.0 (Dev)
c24



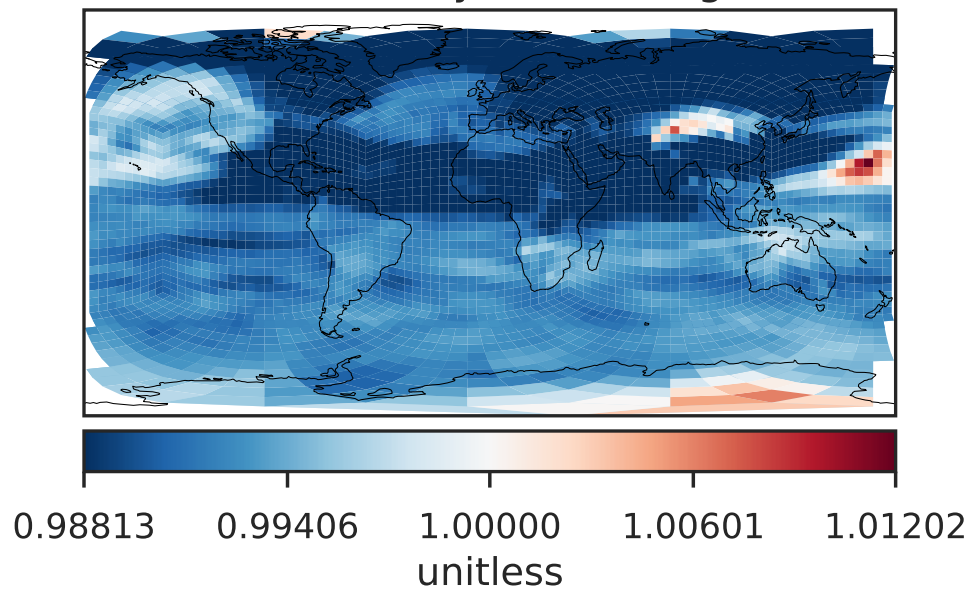
Difference
Dev - Ref, Dynamic Range



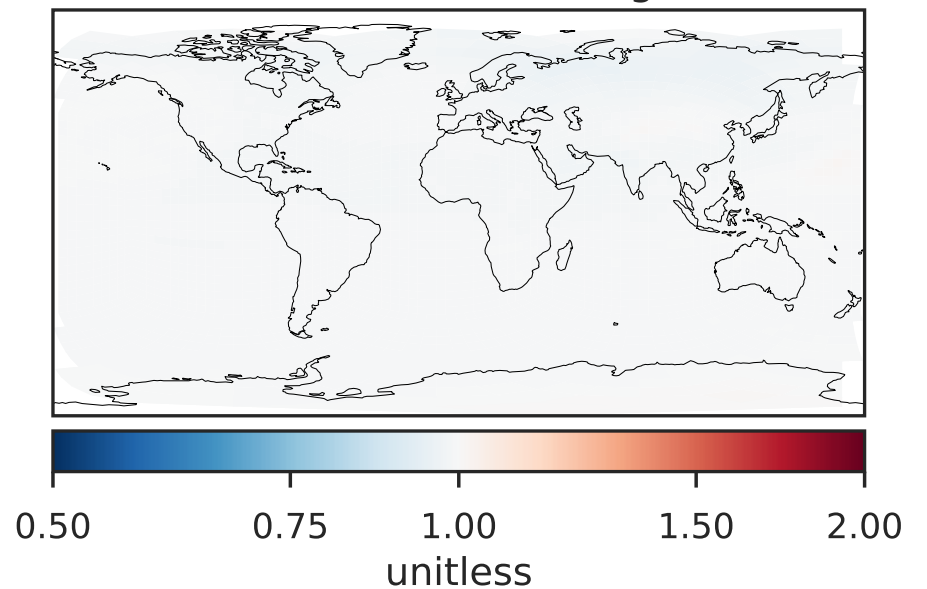
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

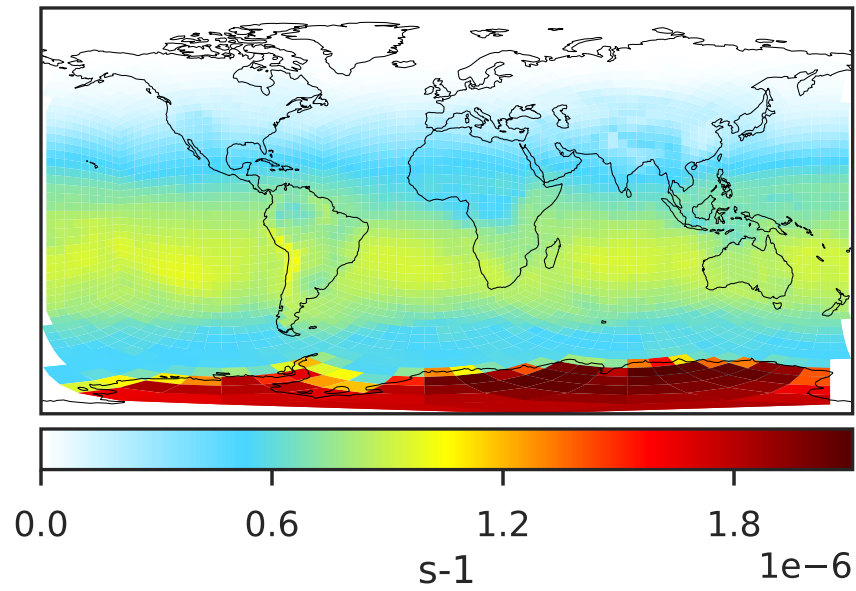


Ratio
Dev/Ref, Fixed Range

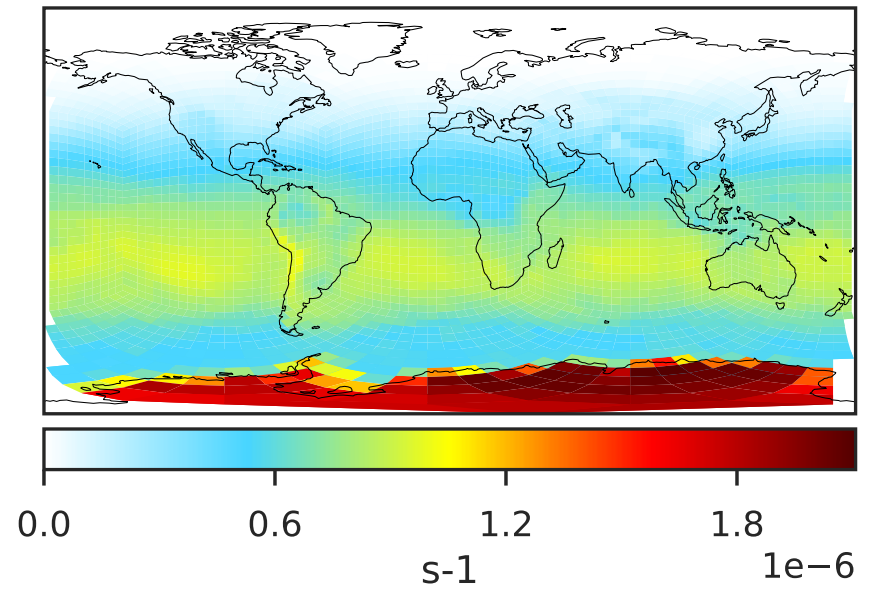


Jval_MONITU (Jan2019)

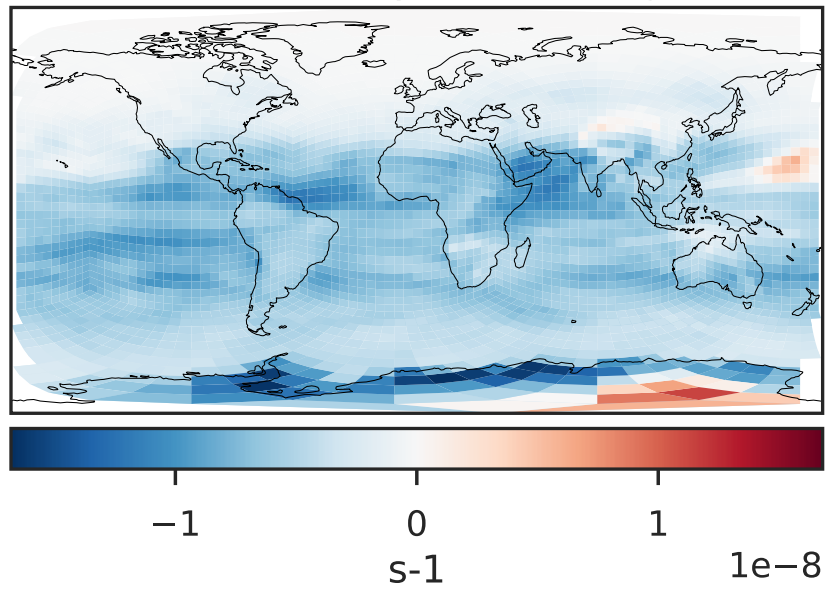
GCHP_14.0.0 (Ref)
c24



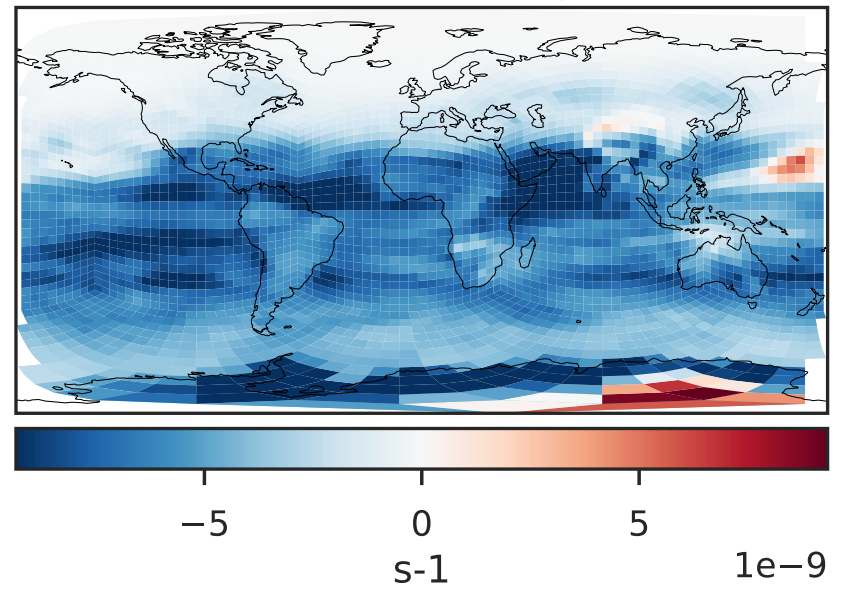
GCHP_14.2.0 (Dev)
c24



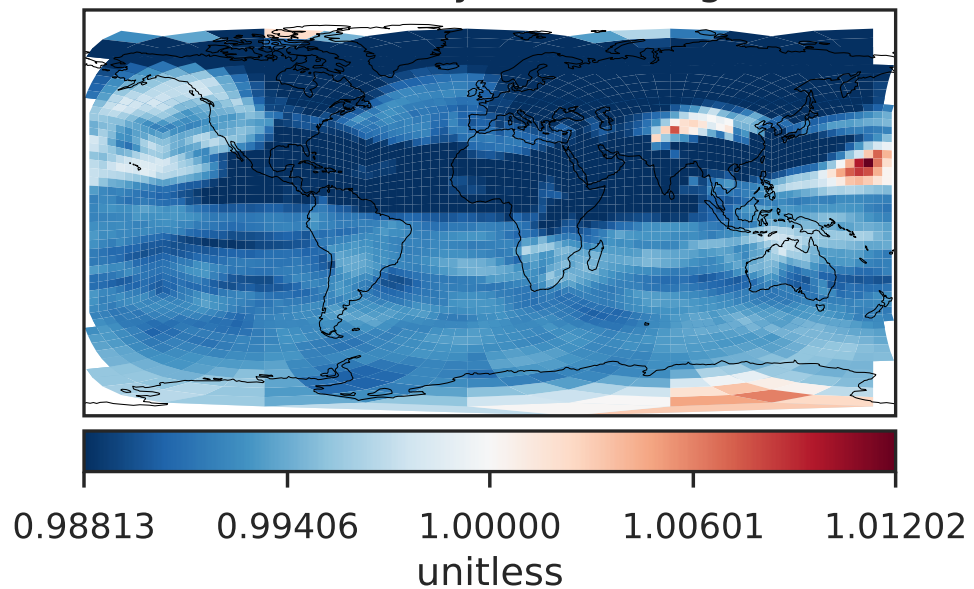
Difference
Dev - Ref, Dynamic Range



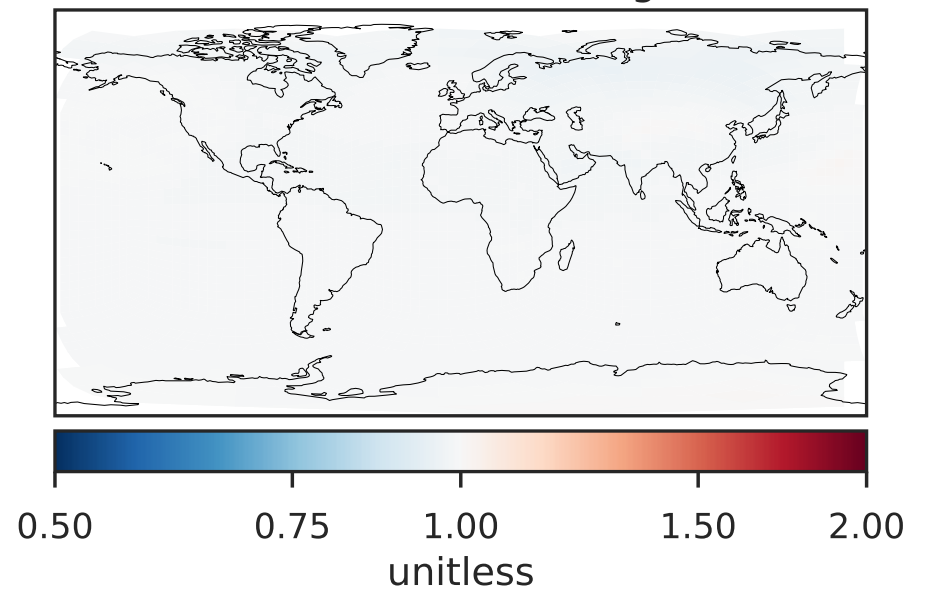
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

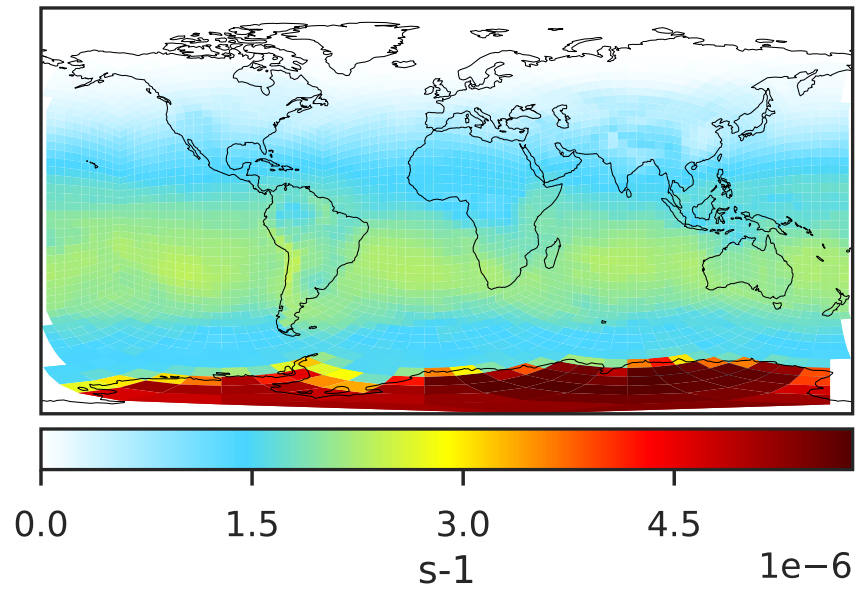


Ratio
Dev/Ref, Fixed Range

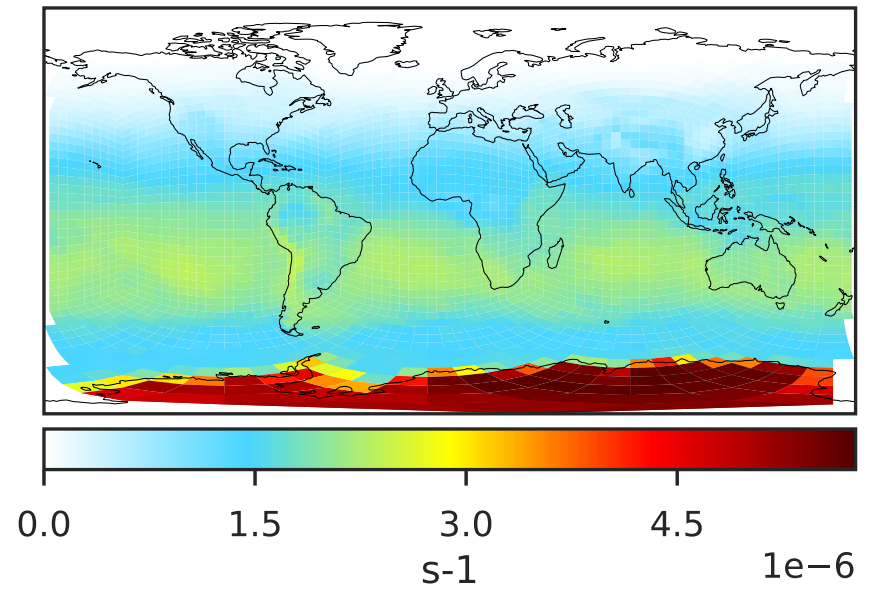


Jval_MP (Jan2019)

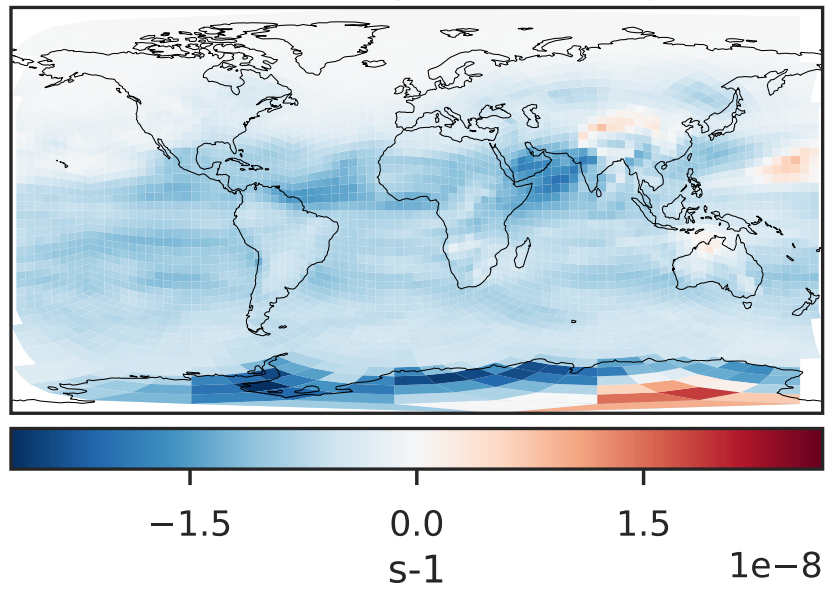
GCHP_14.0.0 (Ref)
c24



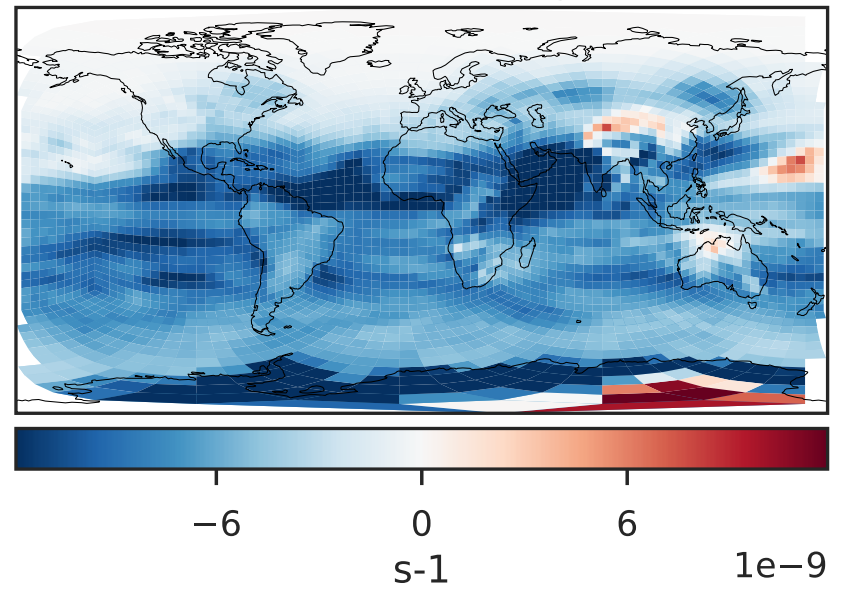
GCHP_14.2.0 (Dev)
c24



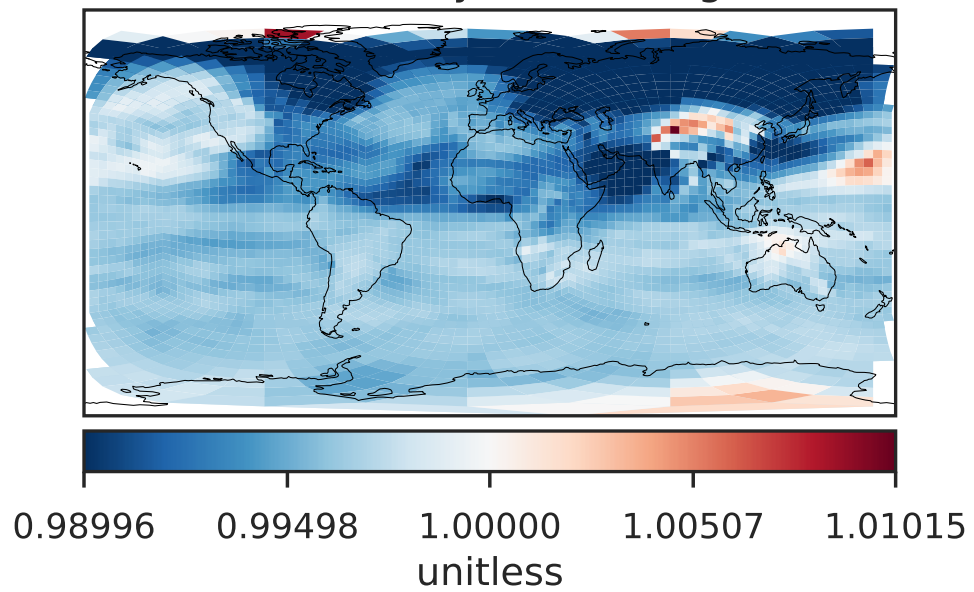
Difference
Dev - Ref, Dynamic Range



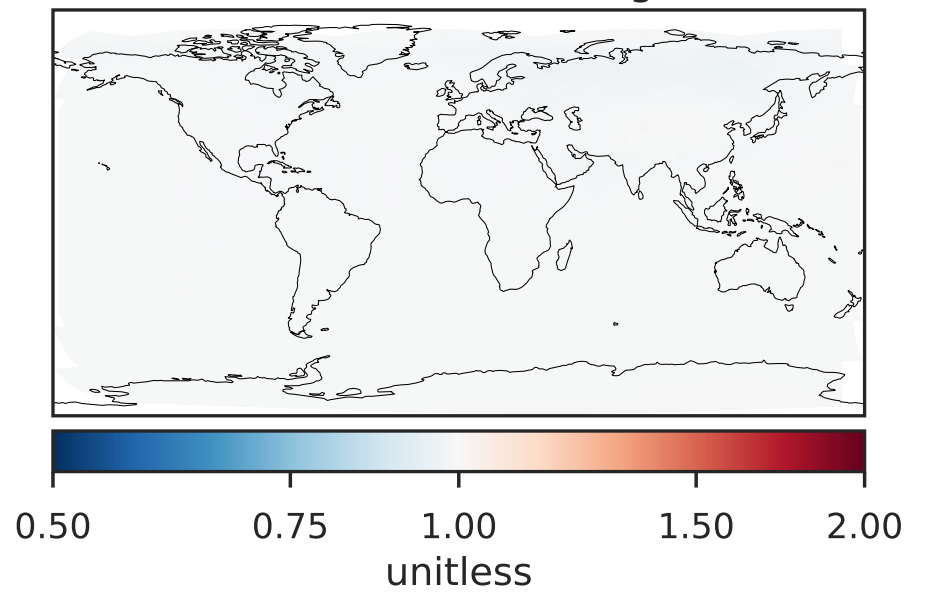
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



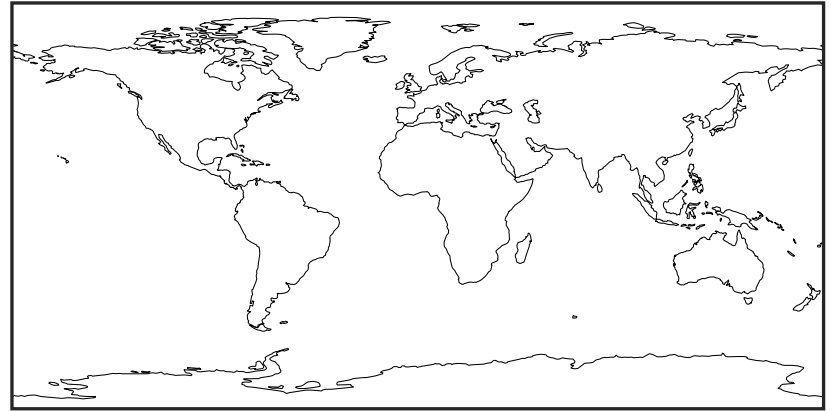
Jval_MPAN (Jan2019)

GCHP_14.0.0 (Ref)
c24



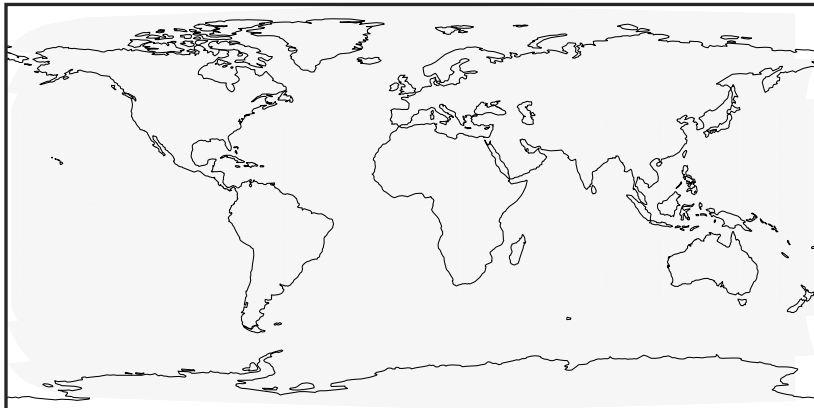
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



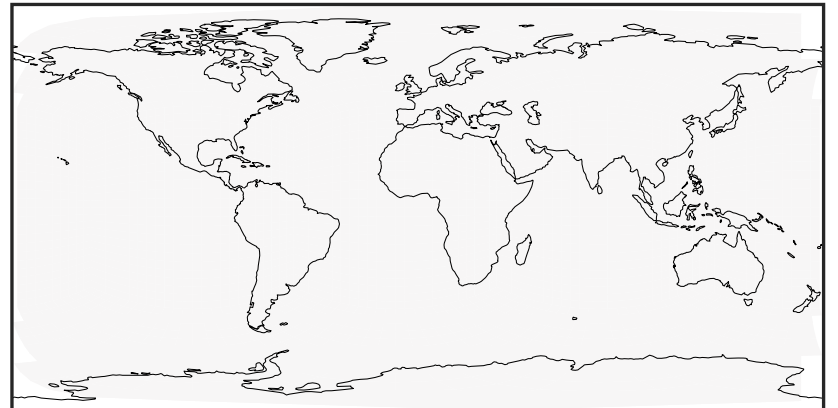
Zero throughput domain
s-1

Difference
Dev - Ref, Dynamic Range



Zero throughput domain
s-1

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



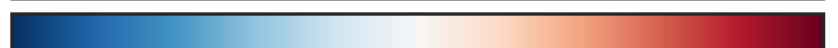
Zero throughput domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

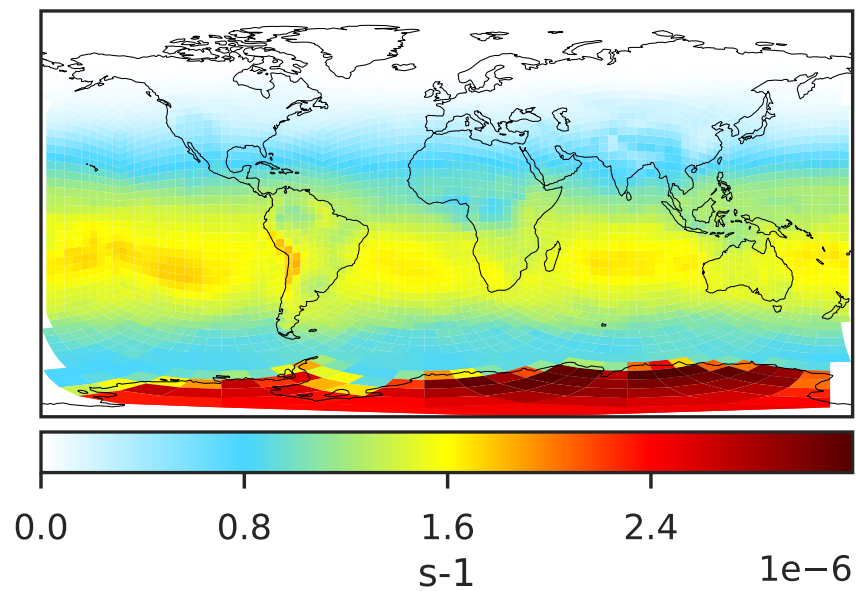
Ratio
Dev/Ref, Fixed Range



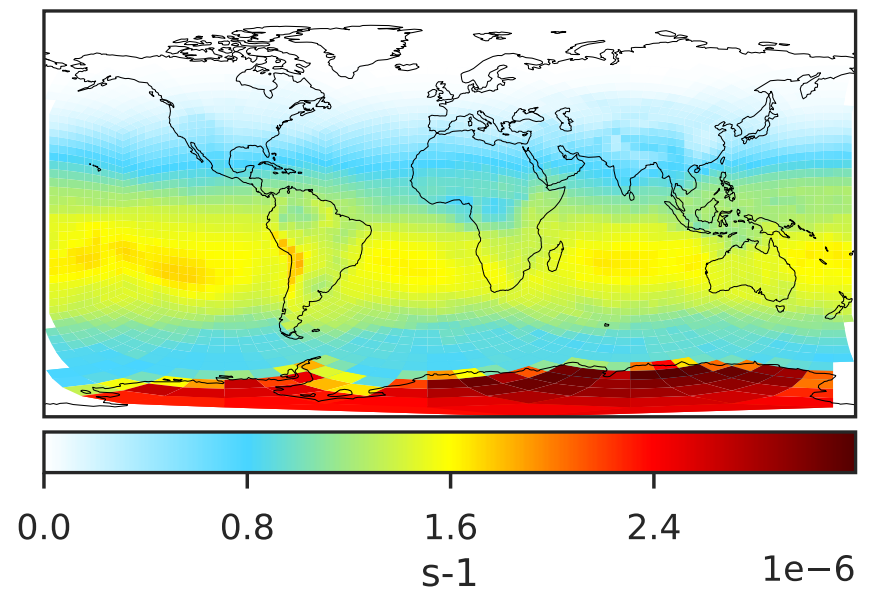
Undefined throughput domain
unitless

Jval_MPN (Jan2019)

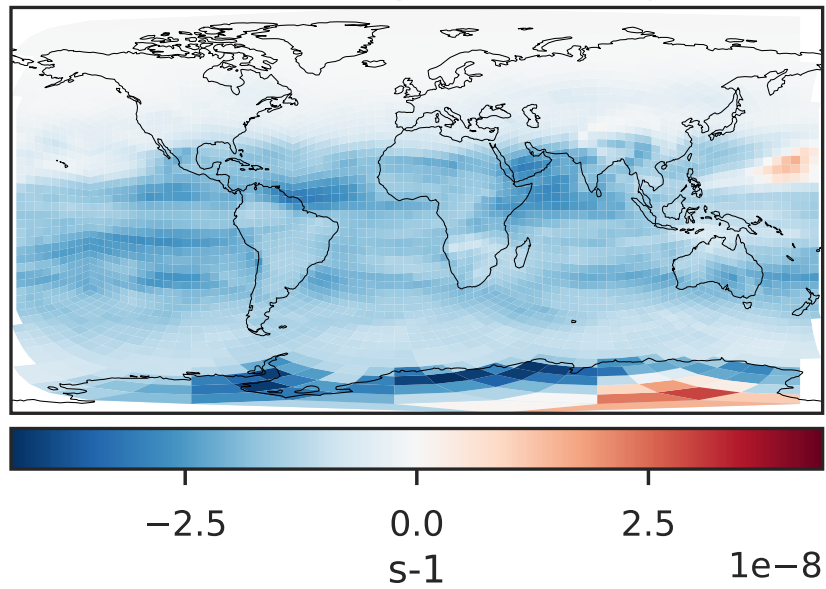
GCHP_14.0.0 (Ref)
c24



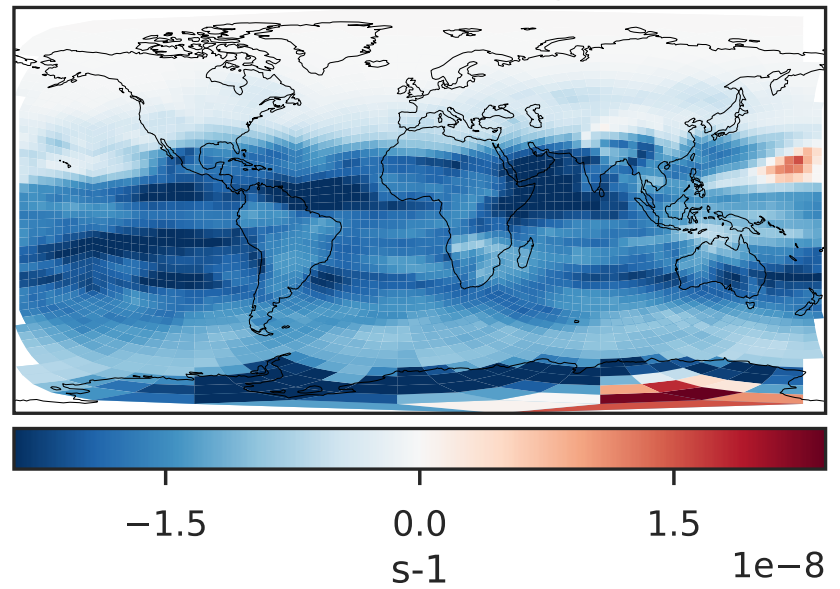
GCHP_14.2.0 (Dev)
c24



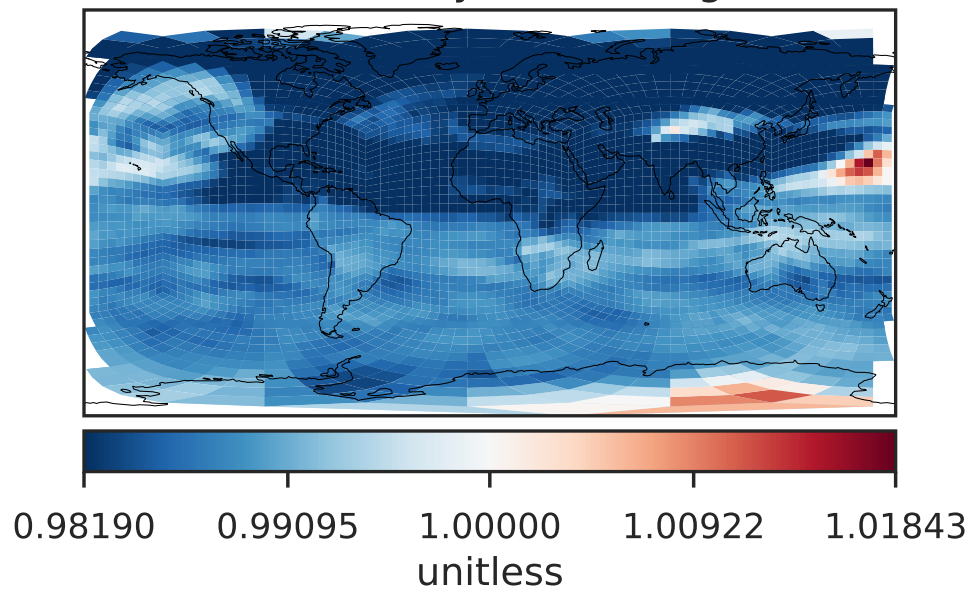
Difference
Dev - Ref, Dynamic Range



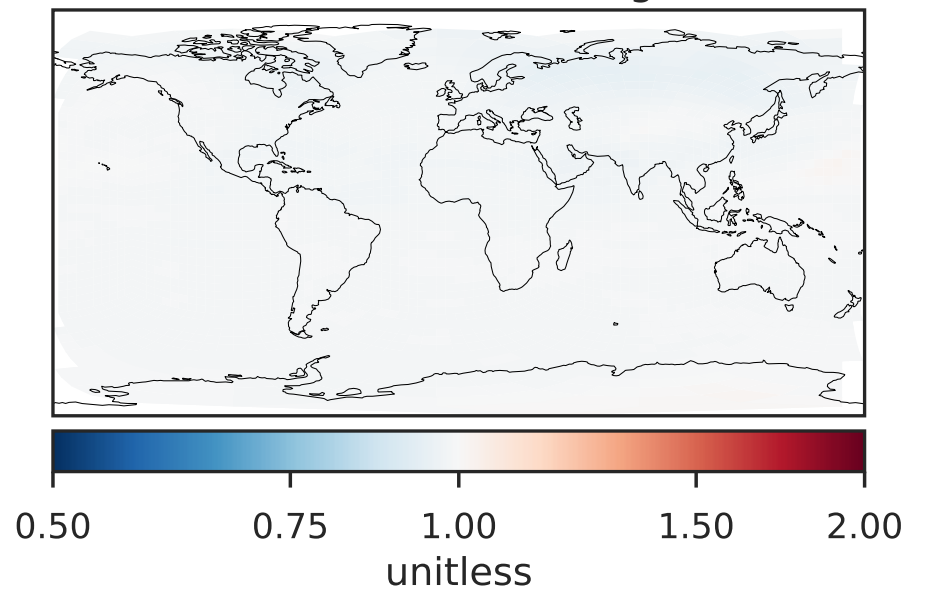
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

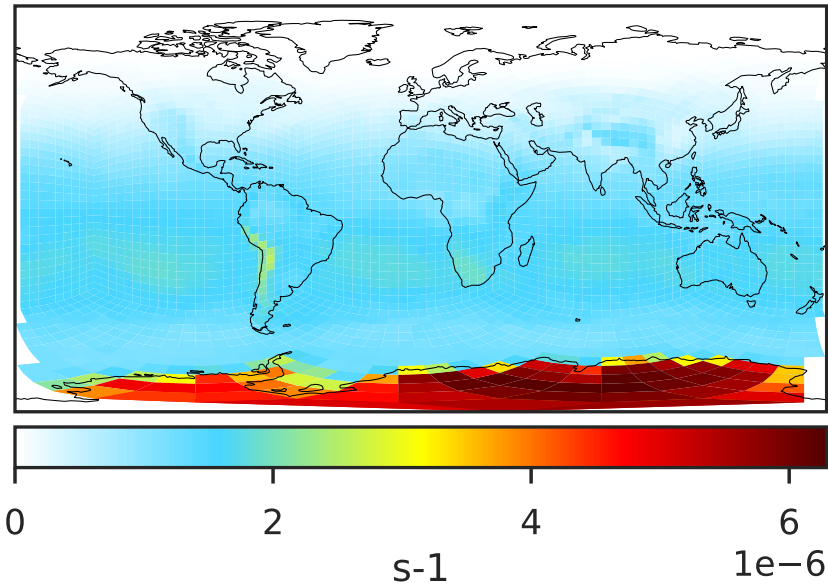


Ratio
Dev/Ref, Fixed Range

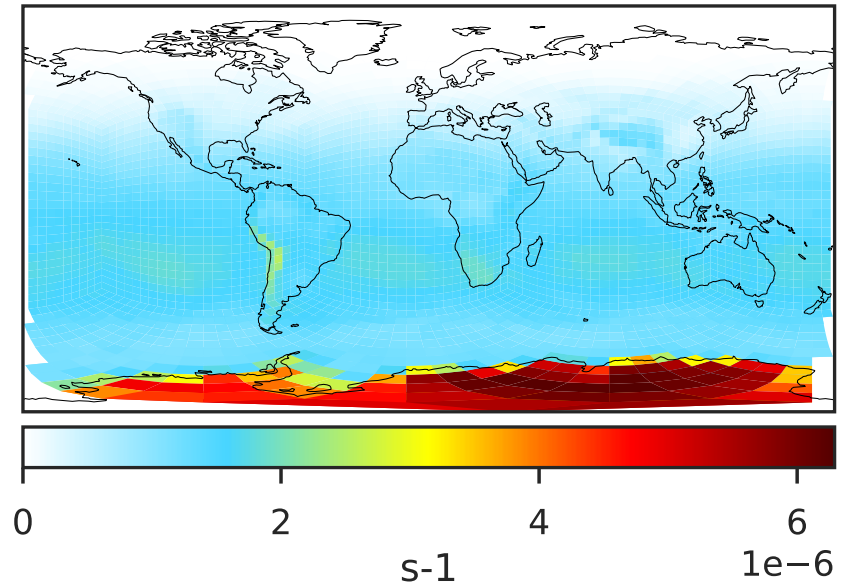


Jval_MVK (Jan2019)

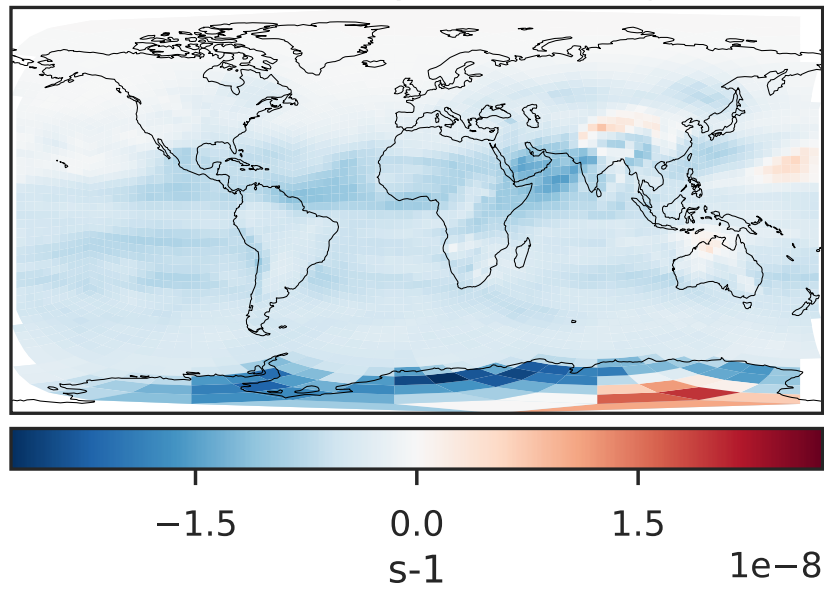
GCHP_14.0.0 (Ref)
c24



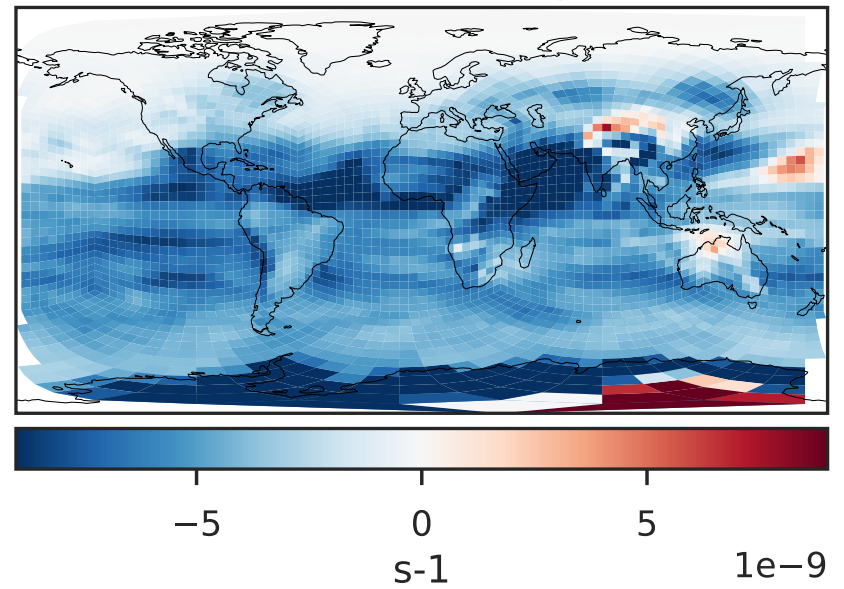
GCHP_14.2.0 (Dev)
c24



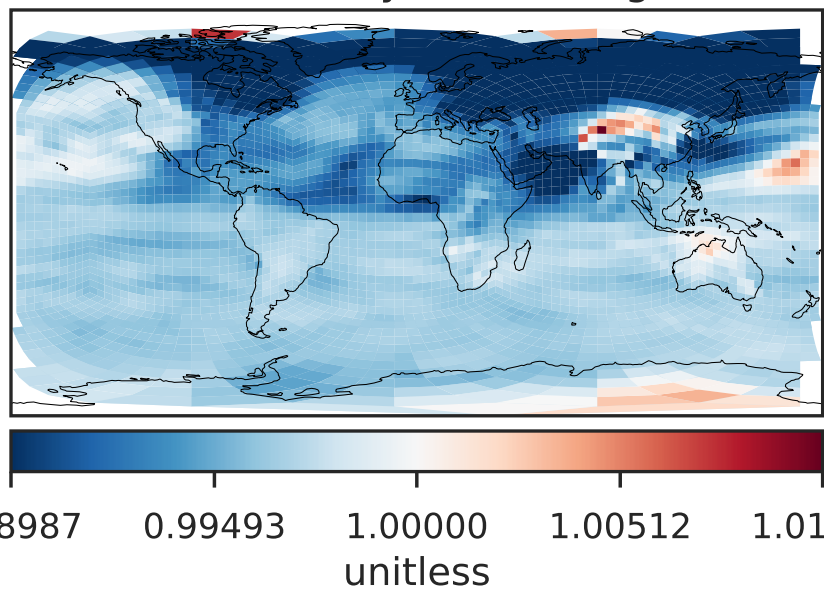
Difference
Dev - Ref, Dynamic Range



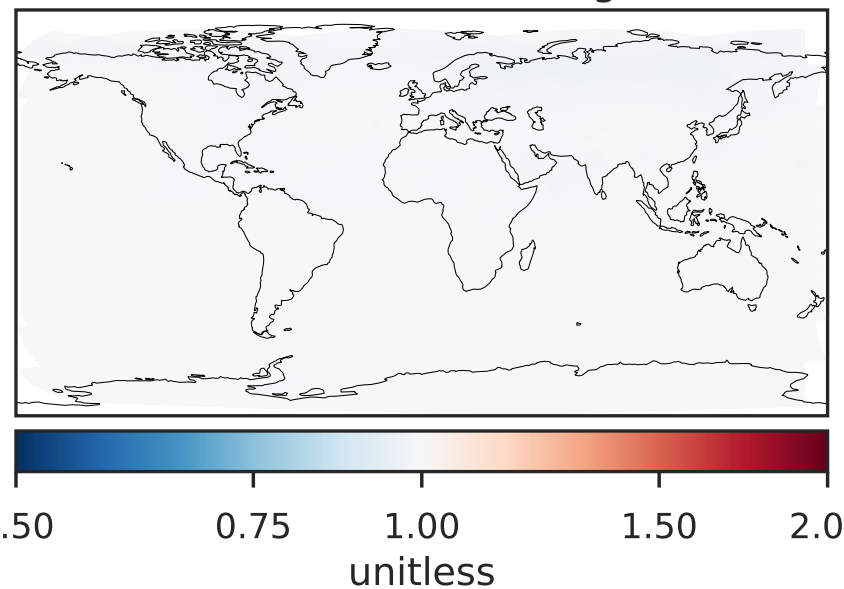
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

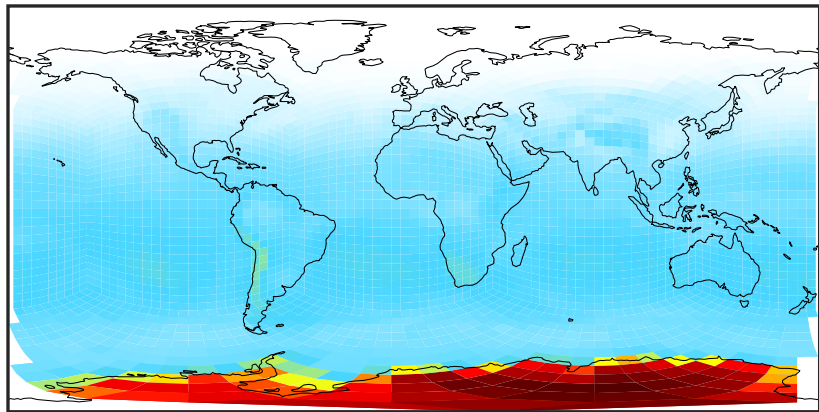


Ratio
Dev/Ref, Fixed Range



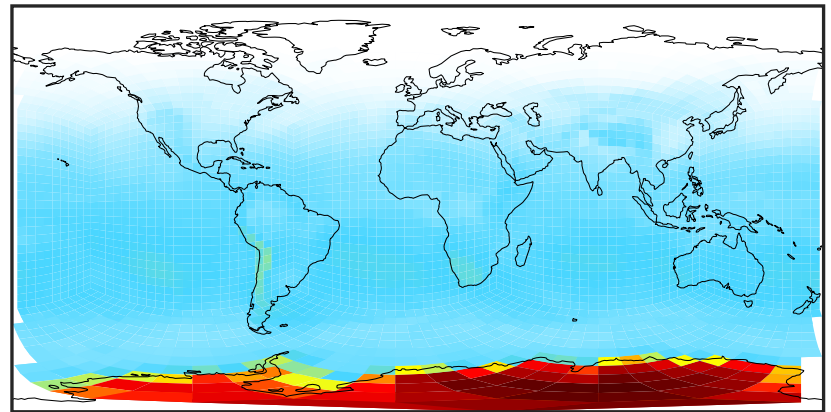
Jval_MVKHC (Jan2019)

GCHP_14.0.0 (Ref)
c24



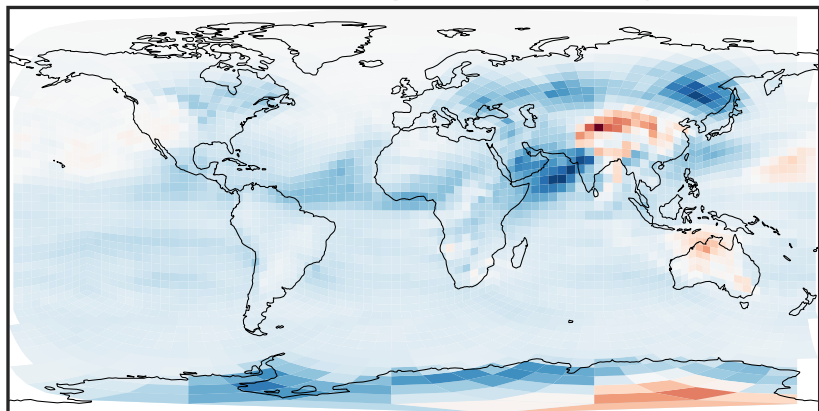
0.00000 0.00008 0.00016 0.00024
s-1

GCHP_14.2.0 (Dev)
c24



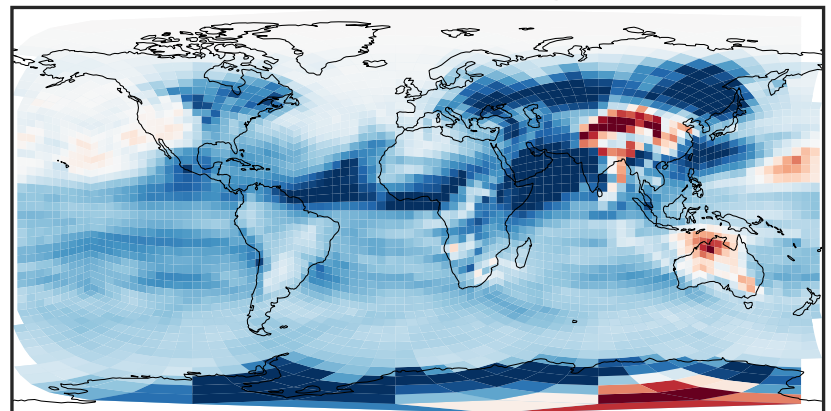
0.00000 0.00008 0.00016 0.00024
s-1

Difference
Dev - Ref, Dynamic Range



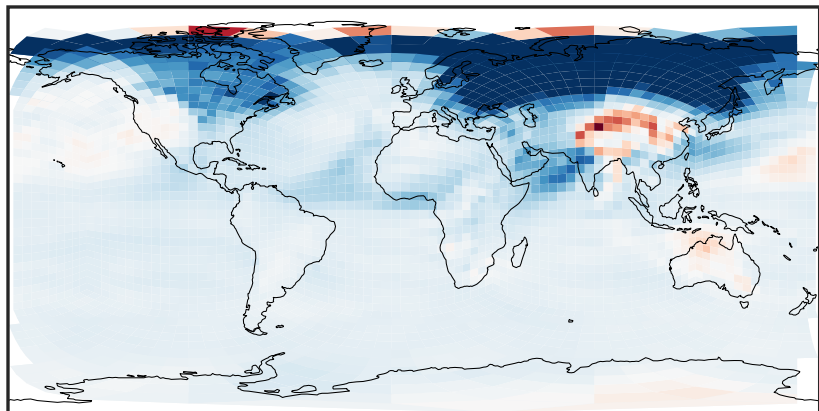
-2.5 0.0 2.5
s-1 1e-7

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



-1 0 1
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98935 0.99467 1.00000 1.00538 1.01077
unitless

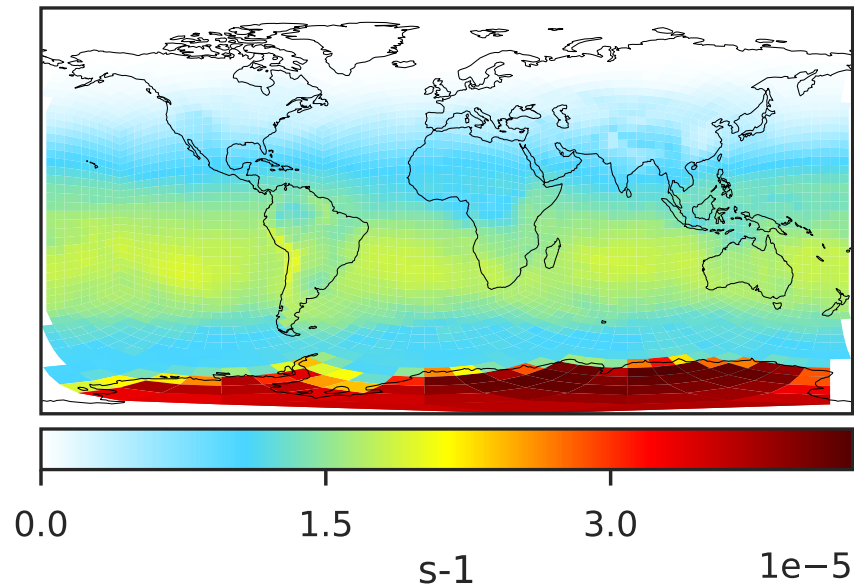
Ratio
Dev/Ref, Fixed Range



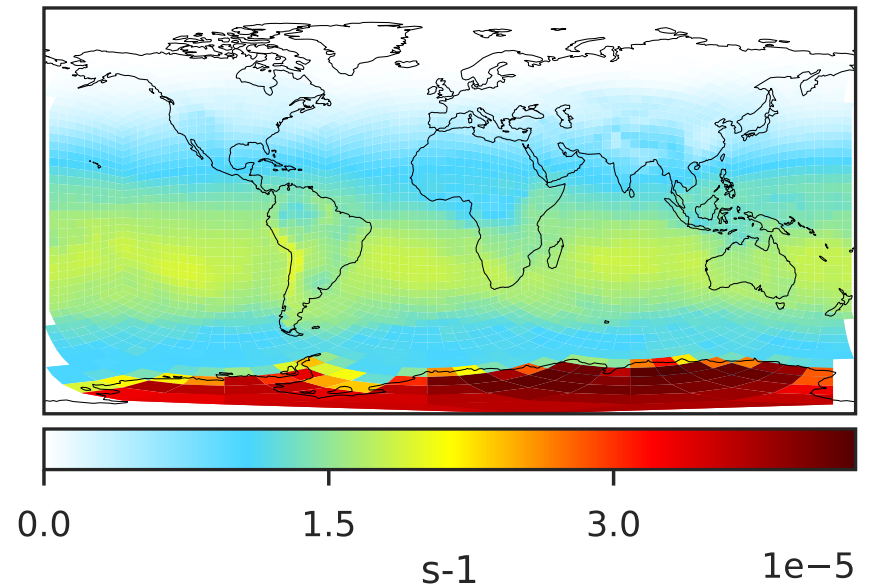
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MVKHCB (Jan2019)

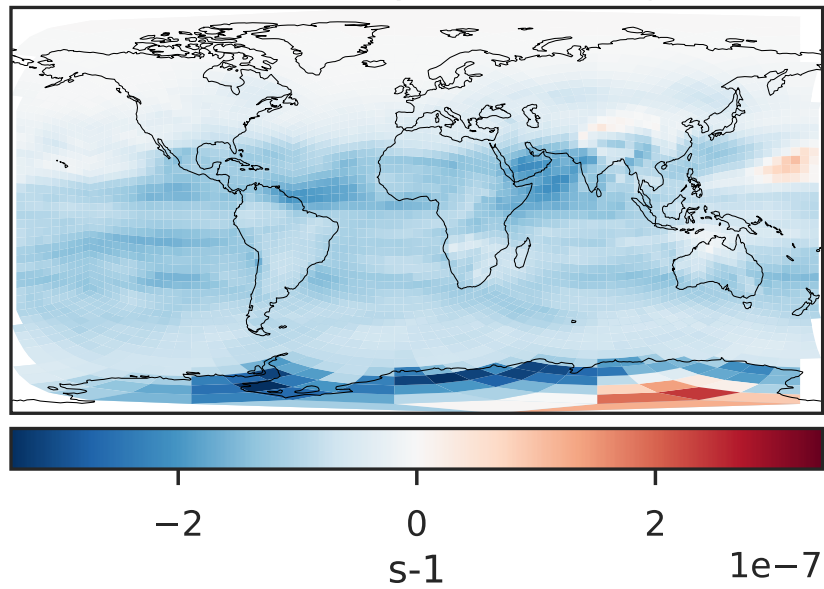
GCHP_14.0.0 (Ref)
c24



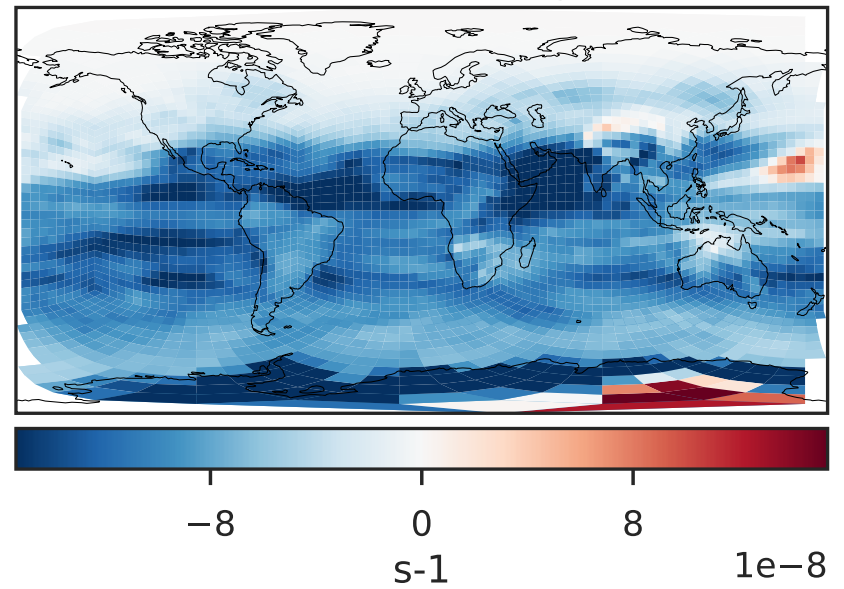
GCHP_14.2.0 (Dev)
c24



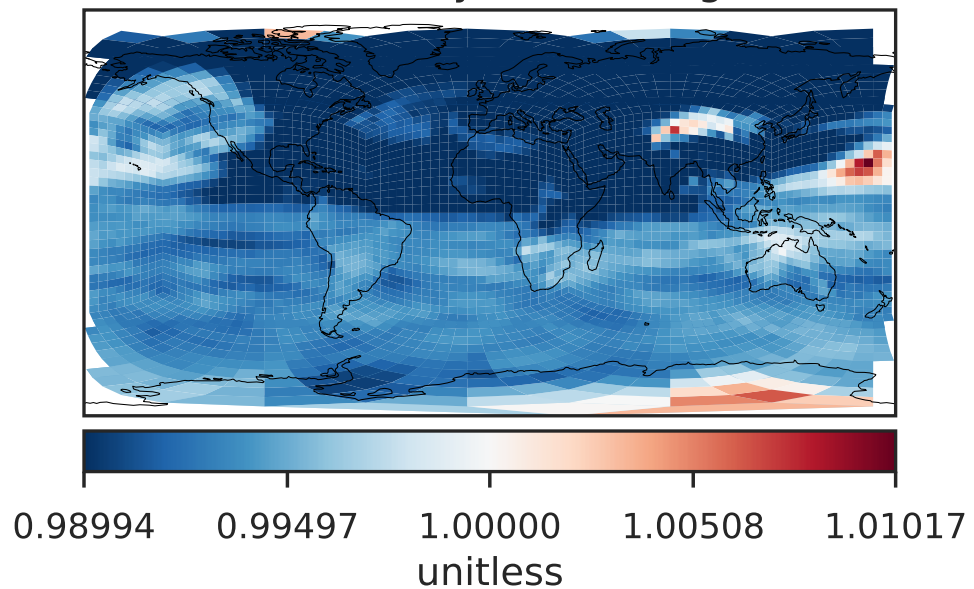
Difference
Dev - Ref, Dynamic Range



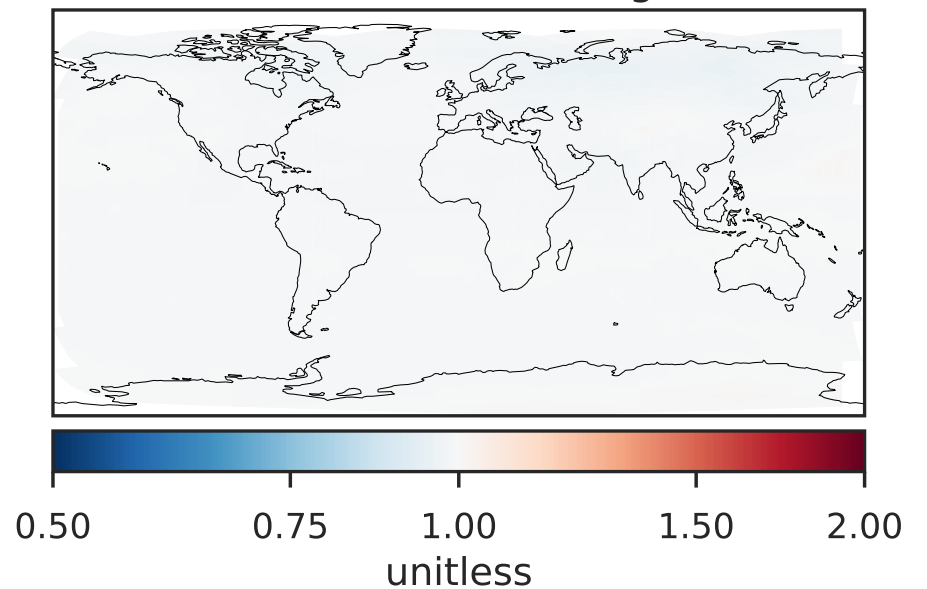
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

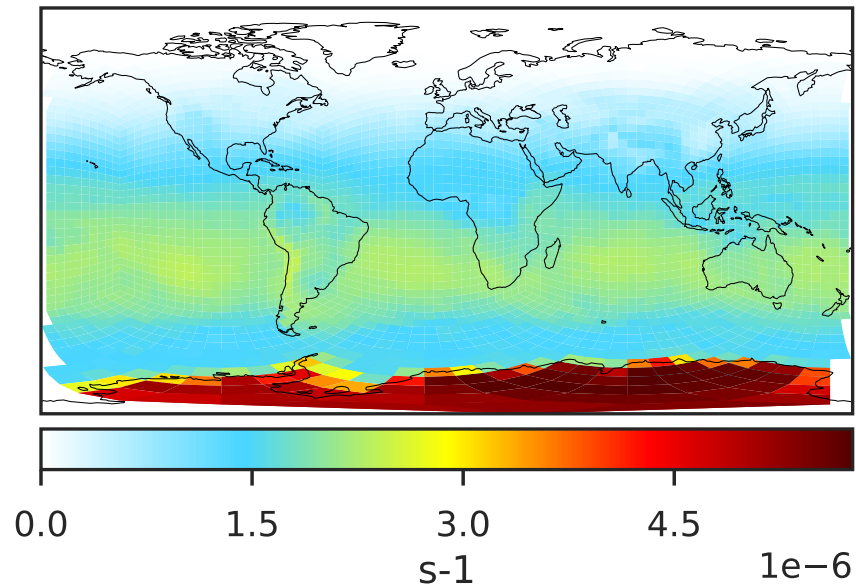


Ratio
Dev/Ref, Fixed Range

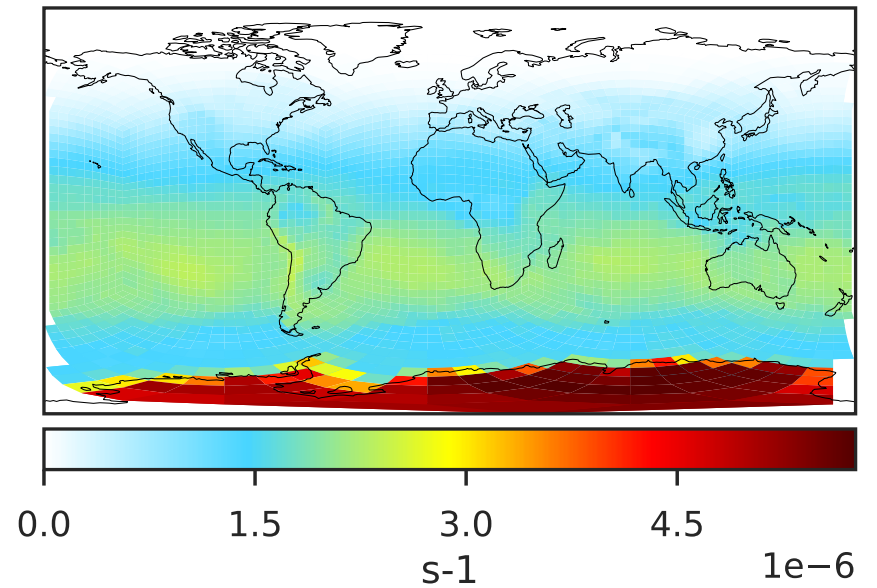


Jval_MVKHP (Jan2019)

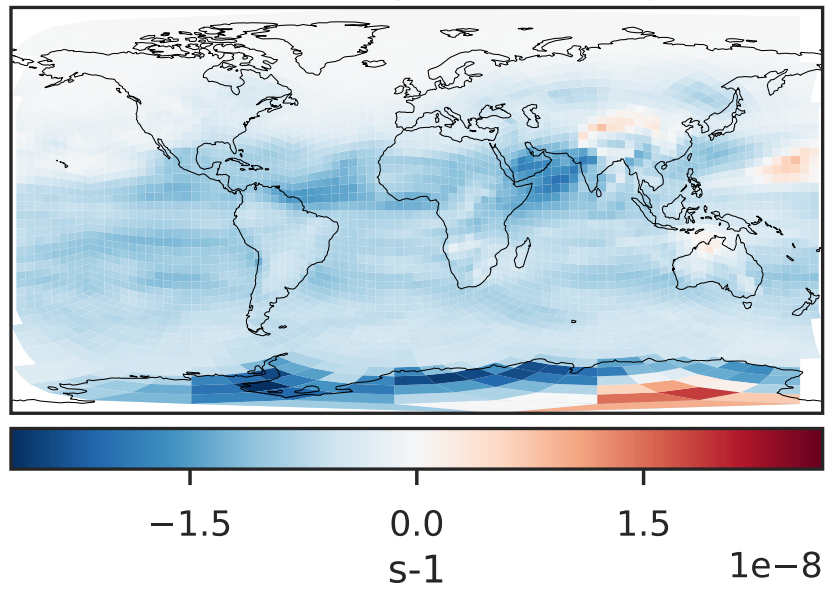
GCHP_14.0.0 (Ref)
c24



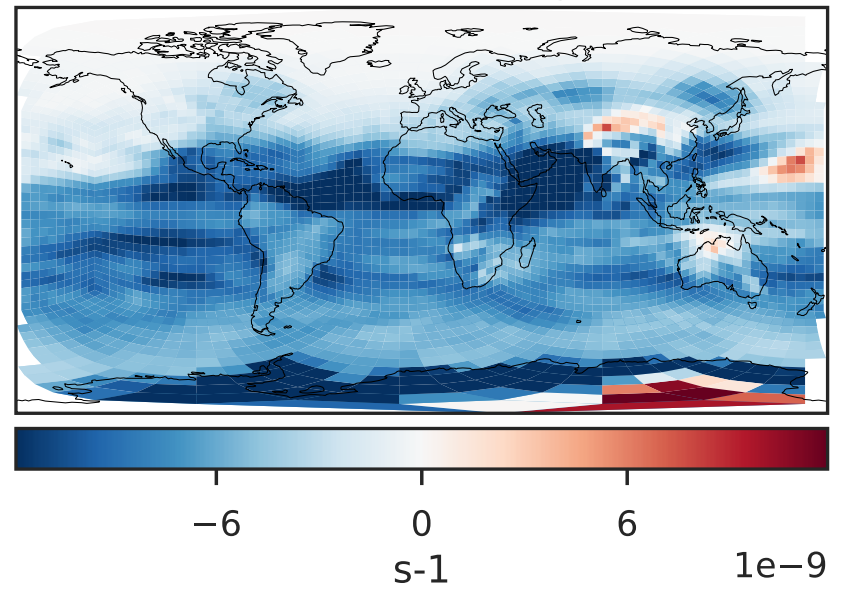
GCHP_14.2.0 (Dev)
c24



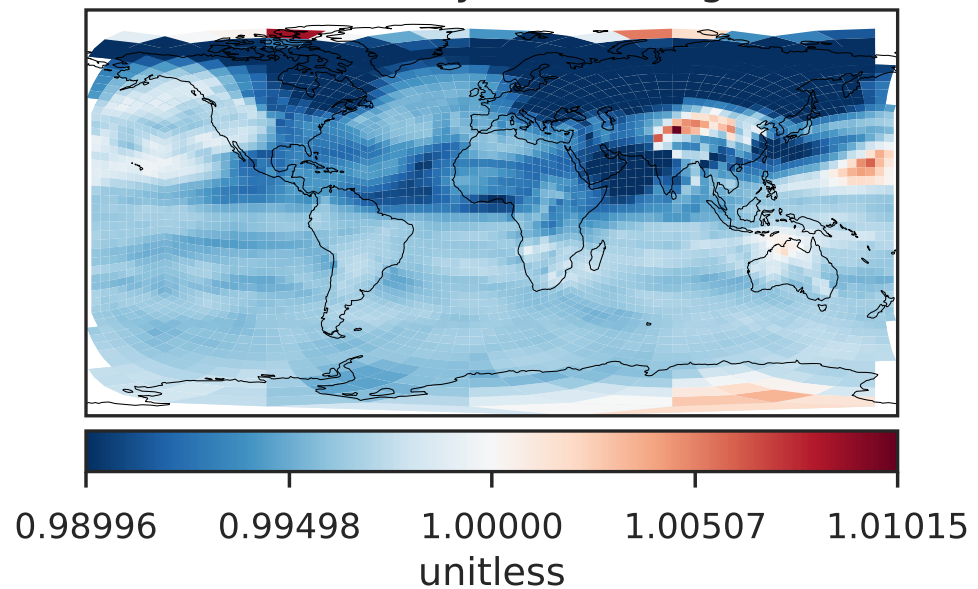
Difference
Dev - Ref, Dynamic Range



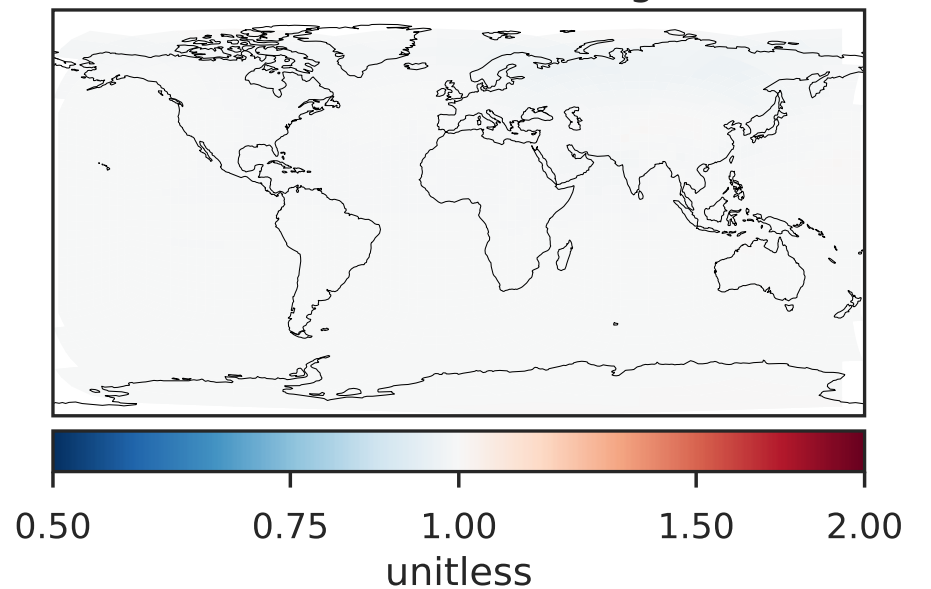
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

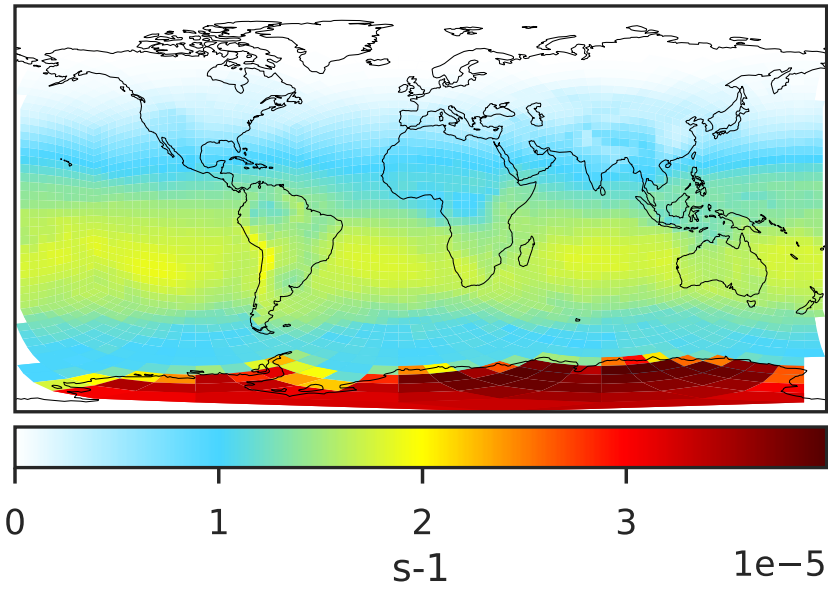


Ratio
Dev/Ref, Fixed Range

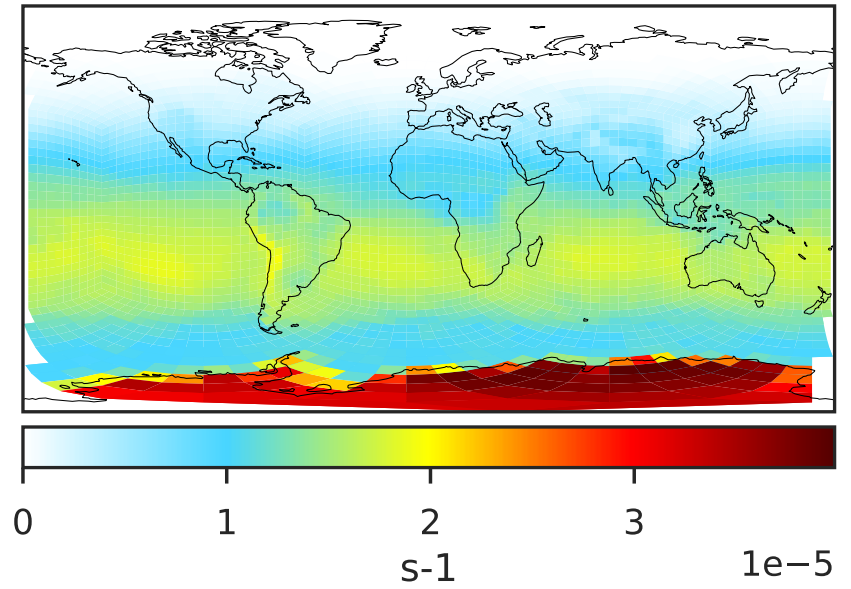


Jval_MVKN (Jan2019)

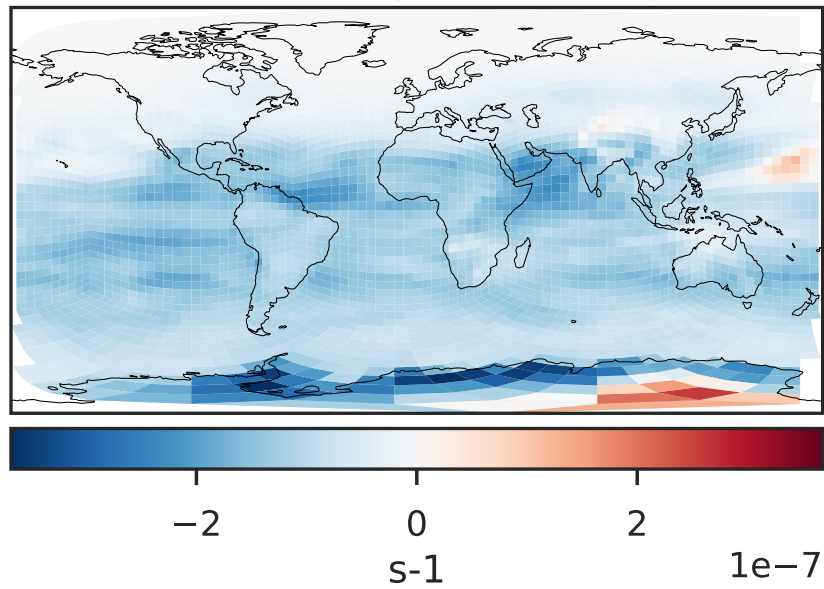
GCHP_14.0.0 (Ref)
c24



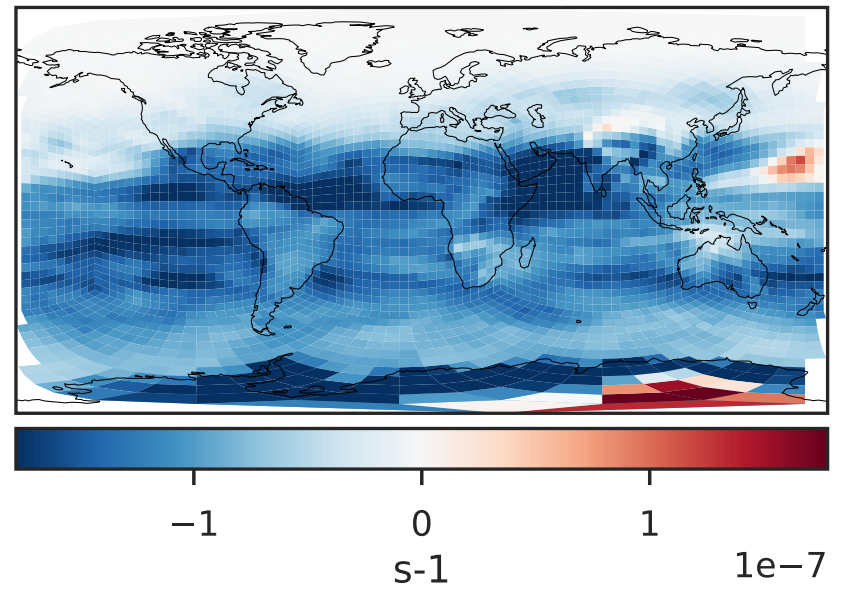
GCHP_14.2.0 (Dev)
c24



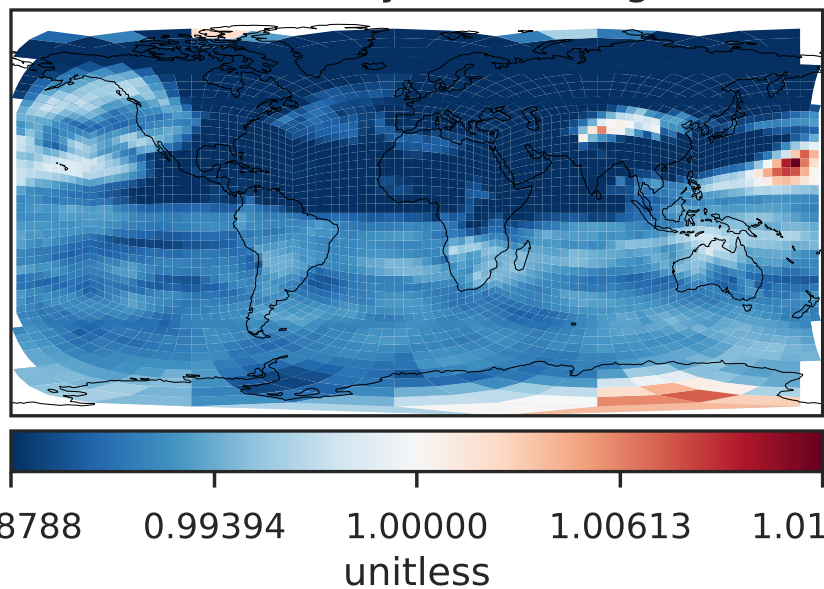
Difference
Dev - Ref, Dynamic Range



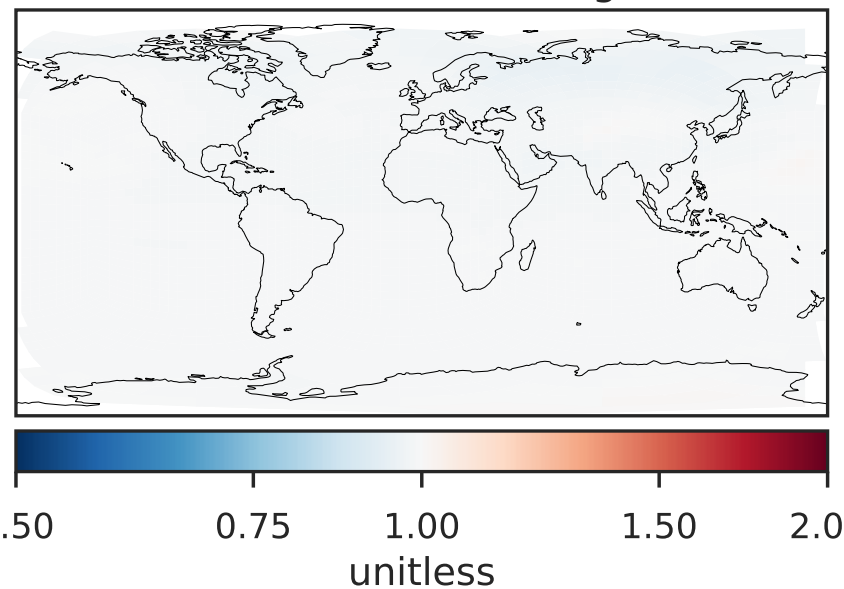
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

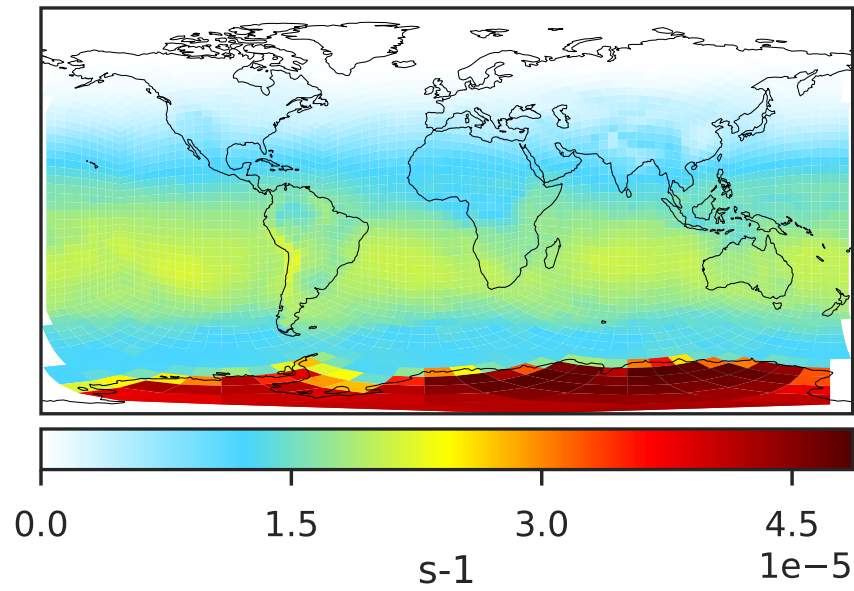


Ratio
Dev/Ref, Fixed Range

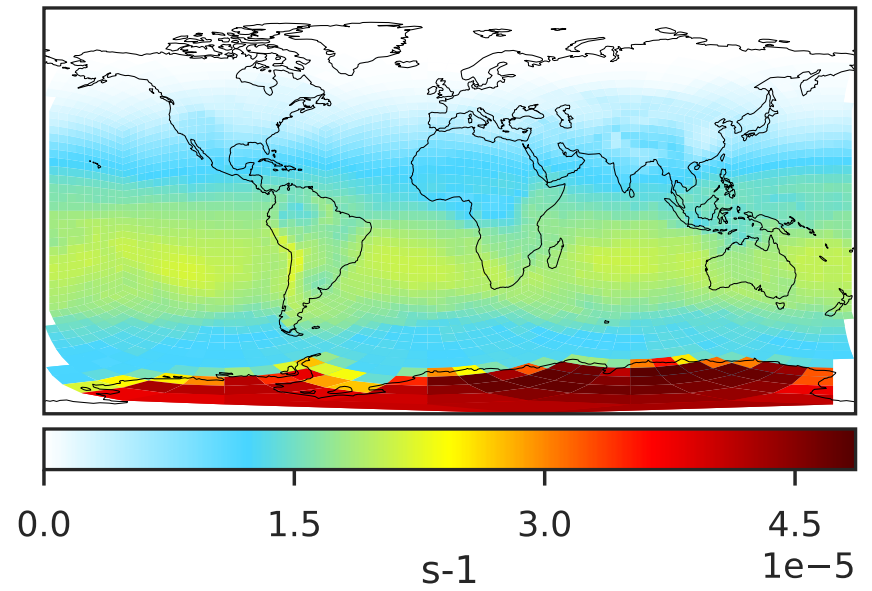


Jval_MVKPC (Jan2019)

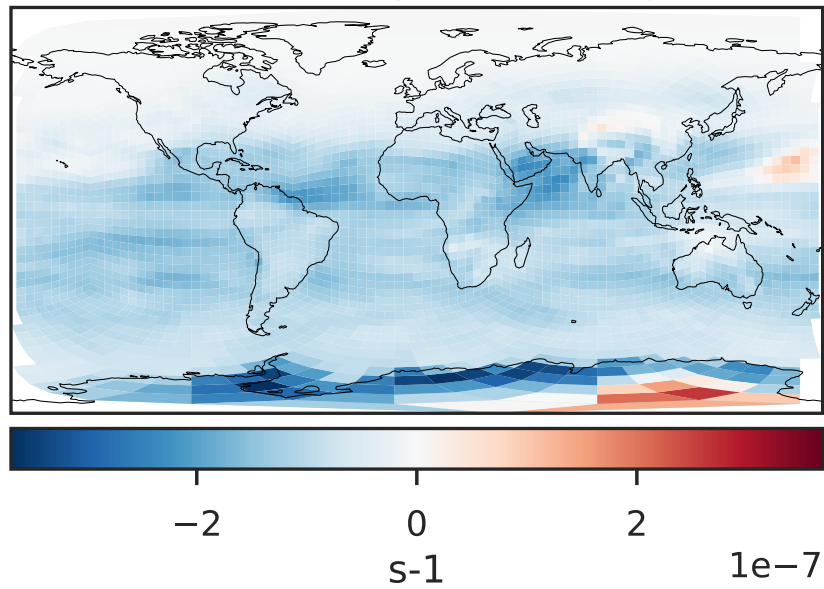
GCHP_14.0.0 (Ref)
c24



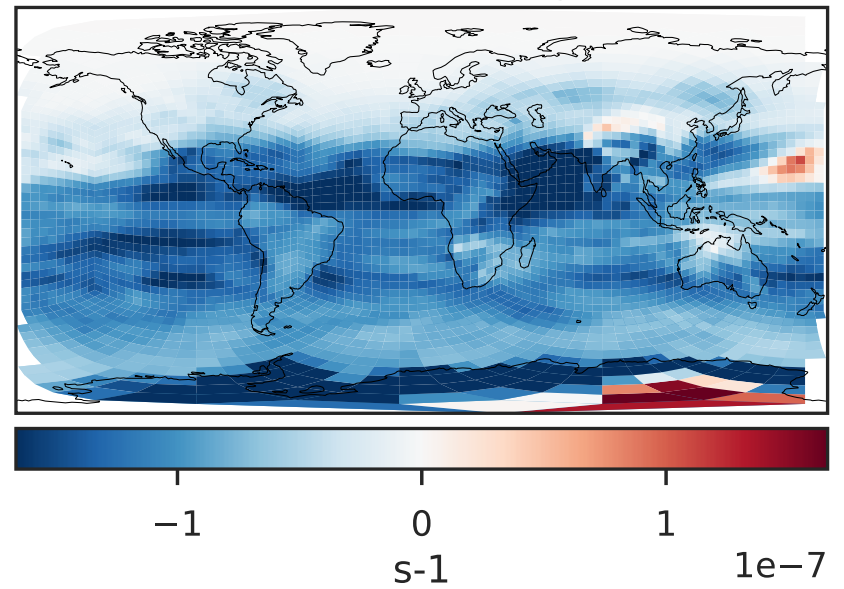
GCHP_14.2.0 (Dev)
c24



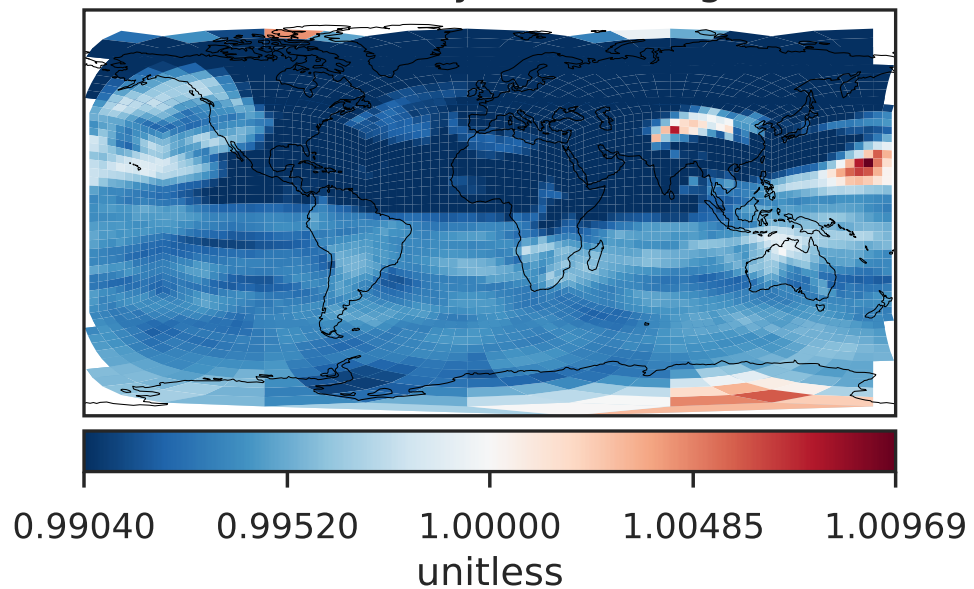
Difference
Dev - Ref, Dynamic Range



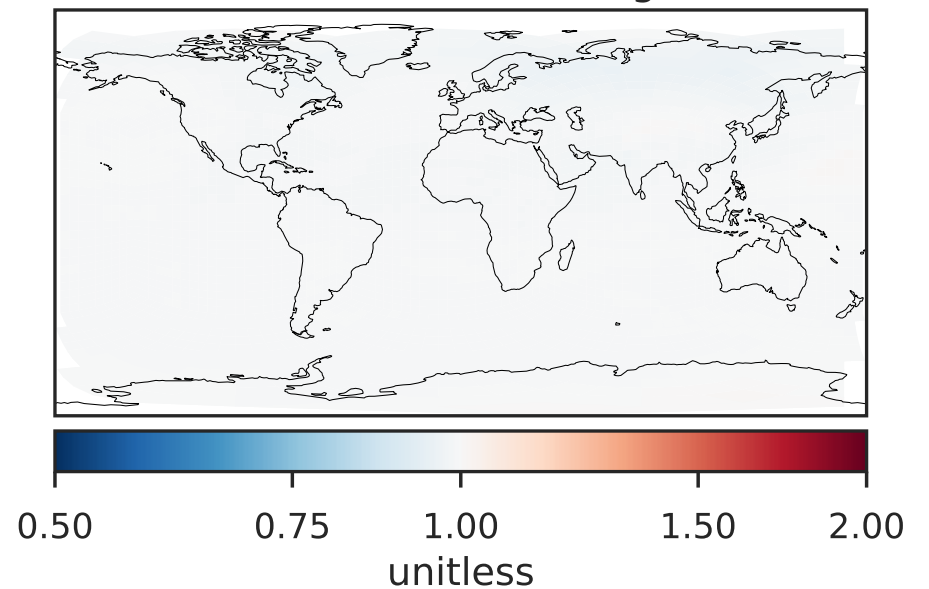
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

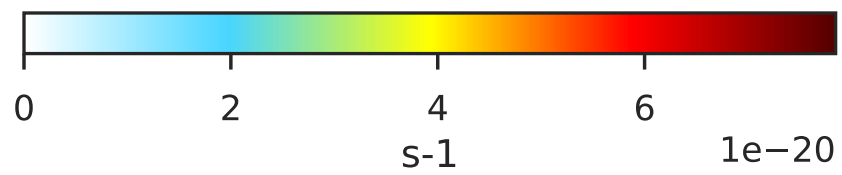


Ratio
Dev/Ref, Fixed Range

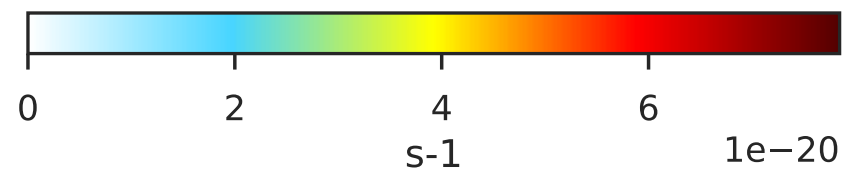


Jval_N2O (Jan2019)

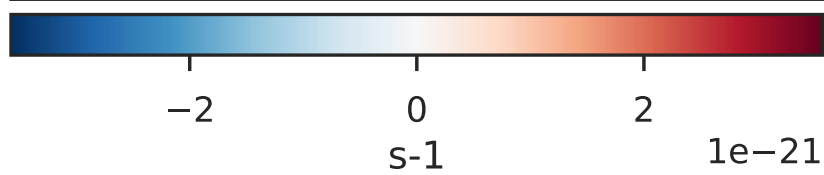
GCHP_14.0.0 (Ref)
c24



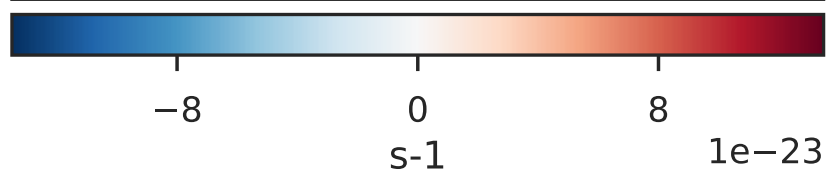
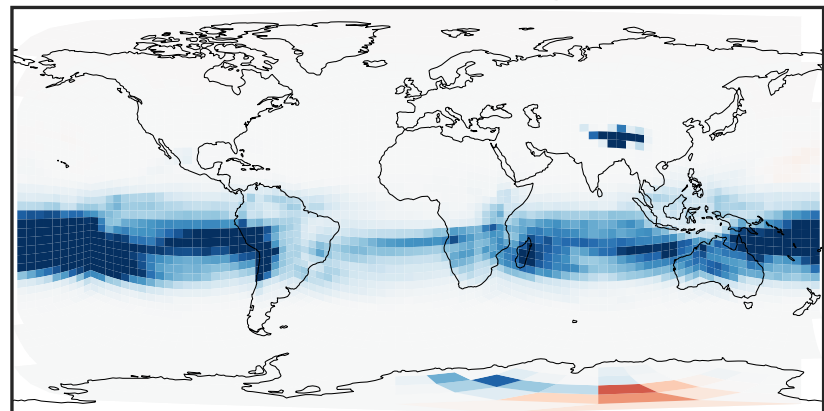
GCHP_14.2.0 (Dev)
c24



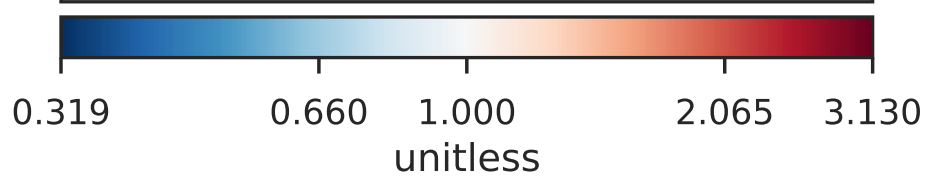
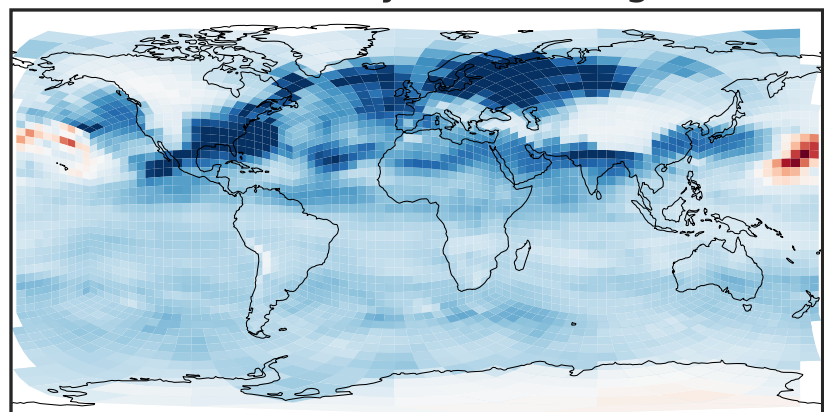
Difference
Dev - Ref, Dynamic Range



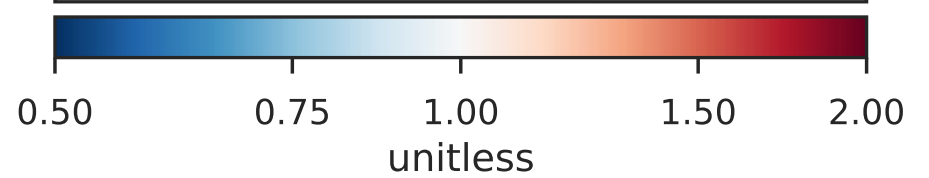
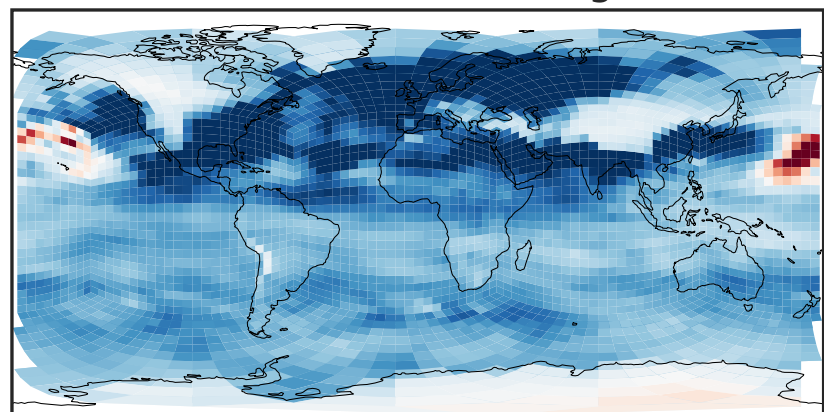
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

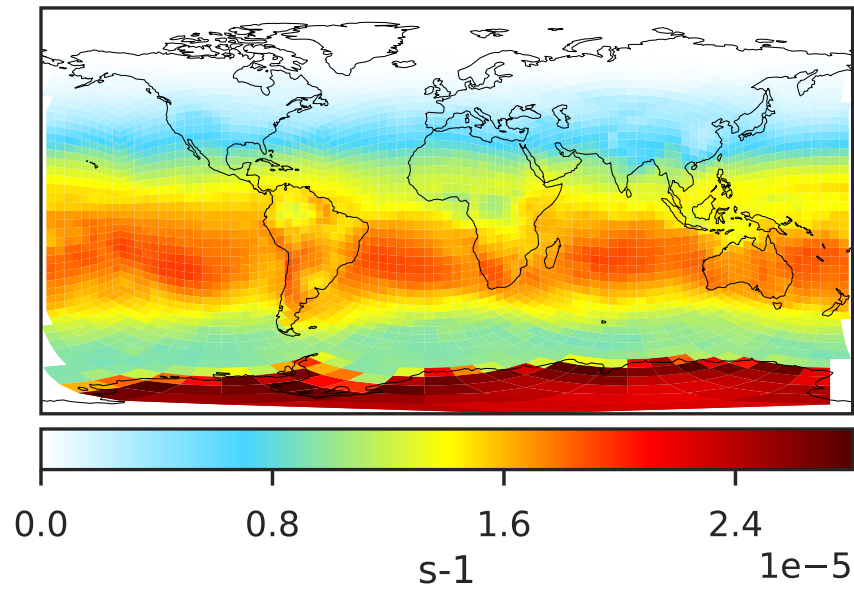


Ratio
Dev/Ref, Fixed Range

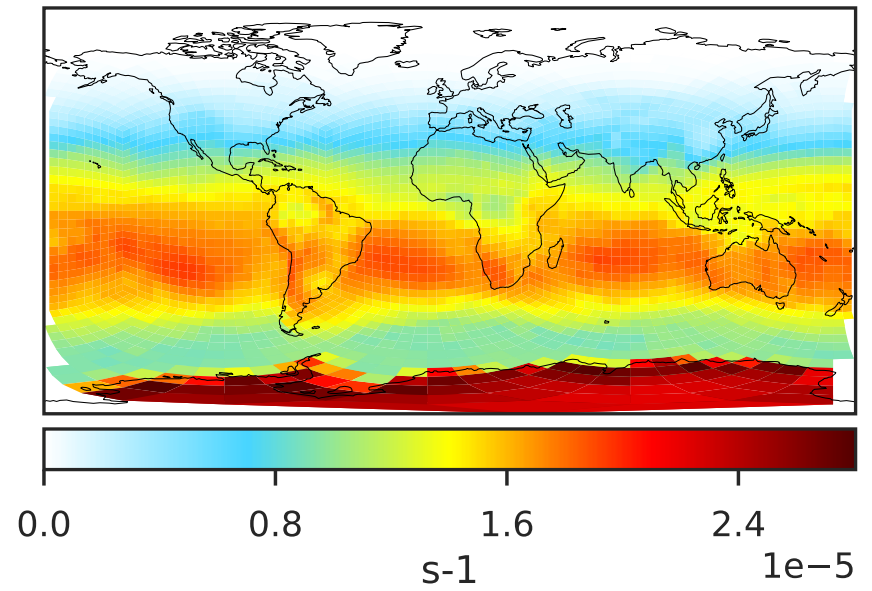


Jval_N2O5 (Jan2019)

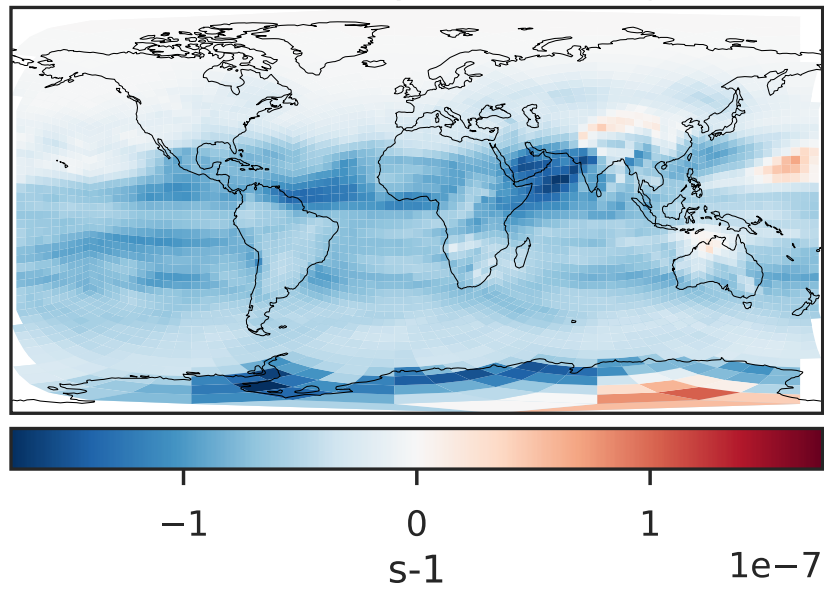
GCHP_14.0.0 (Ref)
c24



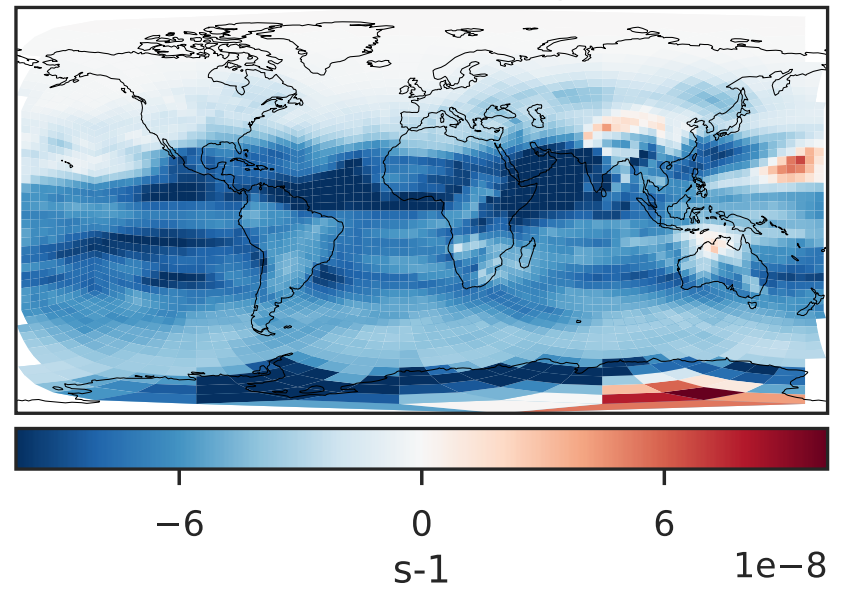
GCHP_14.2.0 (Dev)
c24



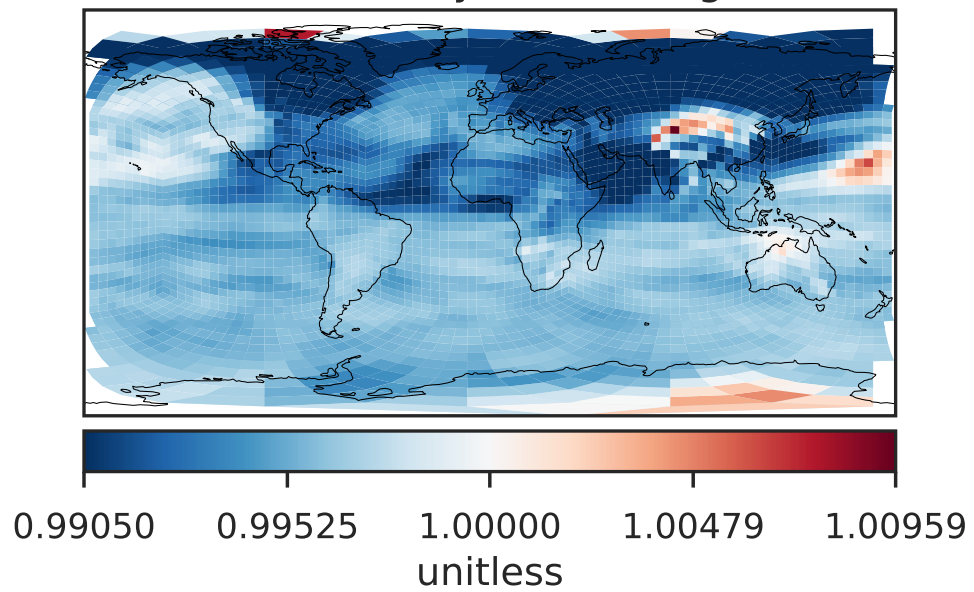
Difference
Dev - Ref, Dynamic Range



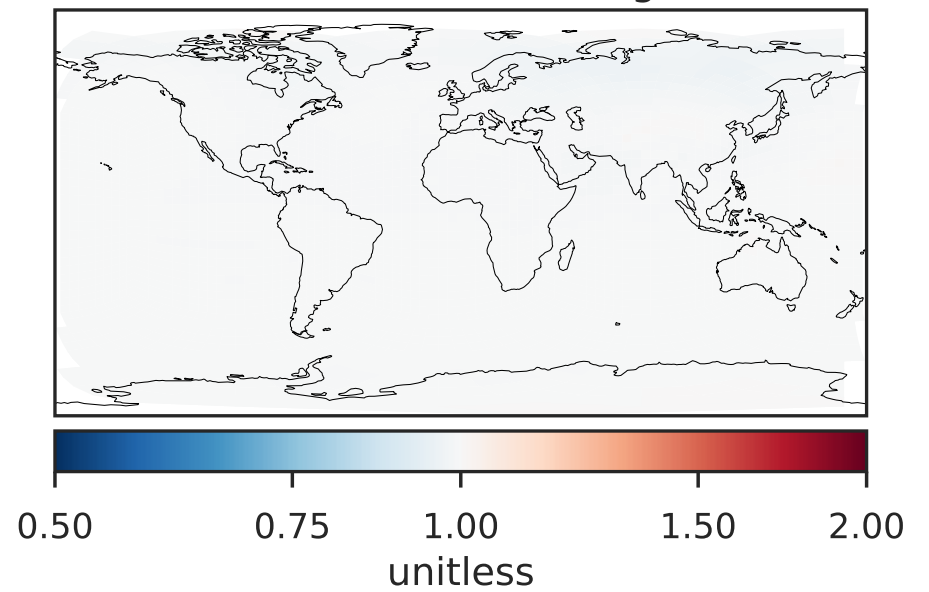
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



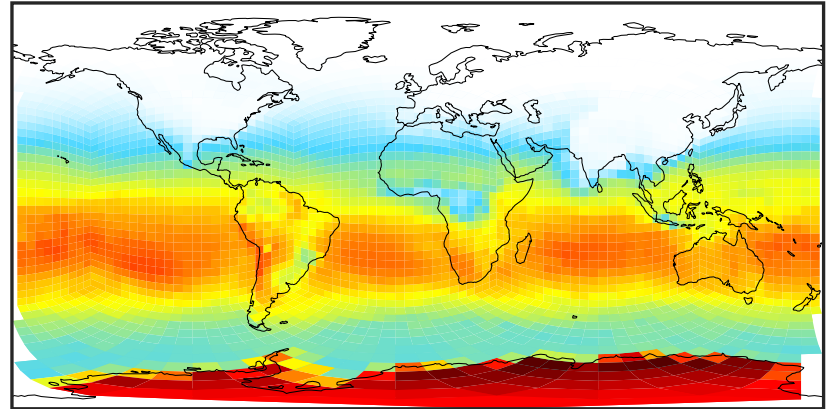
Jval_NIT (Jan2019)

GCHP_14.0.0 (Ref)
c24



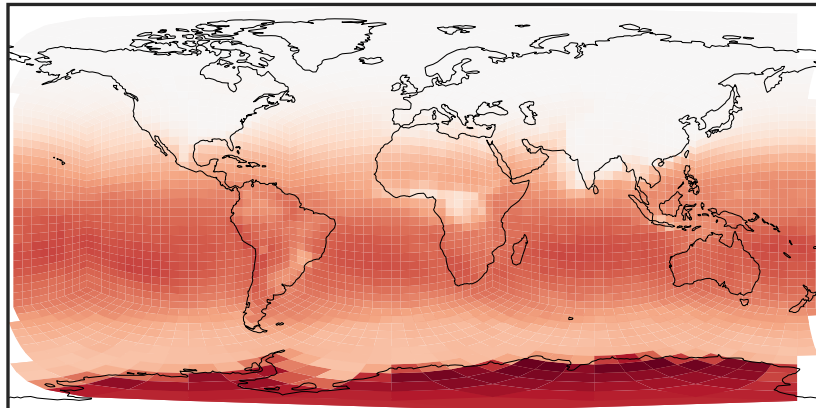
Zero throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



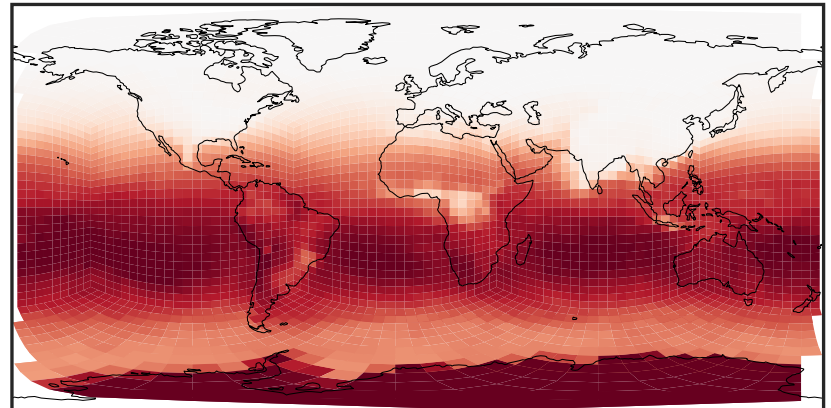
0.0 1.5 3.0
s-1 1e-5

Difference
Dev - Ref, Dynamic Range



-2.5 0.0 2.5
s-1 1e-5

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



-1.5 0.0 1.5
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

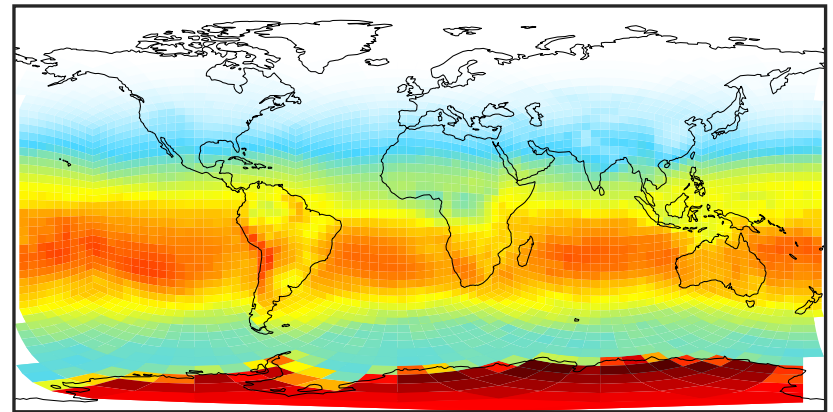
Jval_NITs (Jan2019)

GCHP_14.0.0 (Ref)
c24



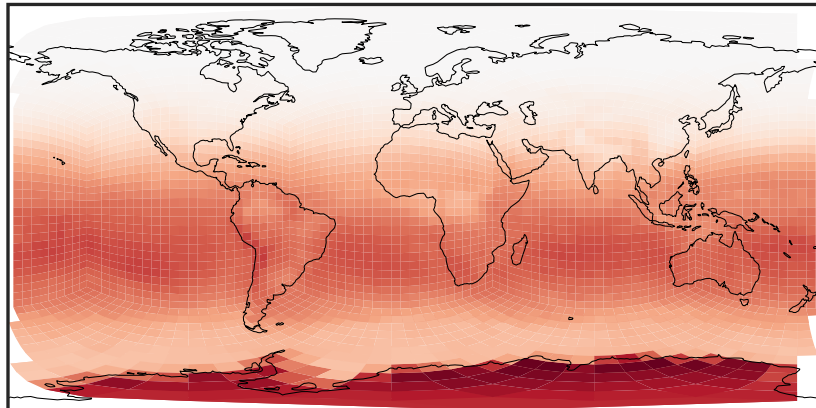
Zero throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



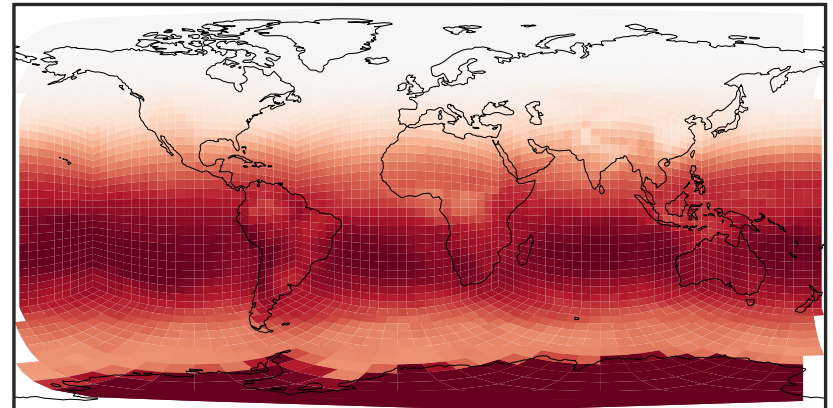
0.0 1.5 3.0
s-1 1e-5

Difference
Dev - Ref, Dynamic Range



-2.5 0.0 2.5
s-1 1e-5

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



-1.5 0.0 1.5
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

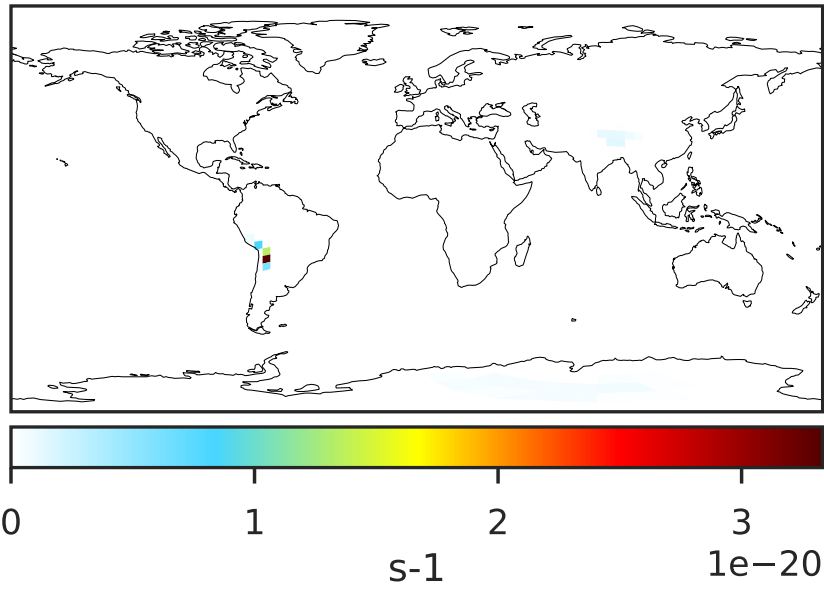
Ratio
Dev/Ref, Fixed Range



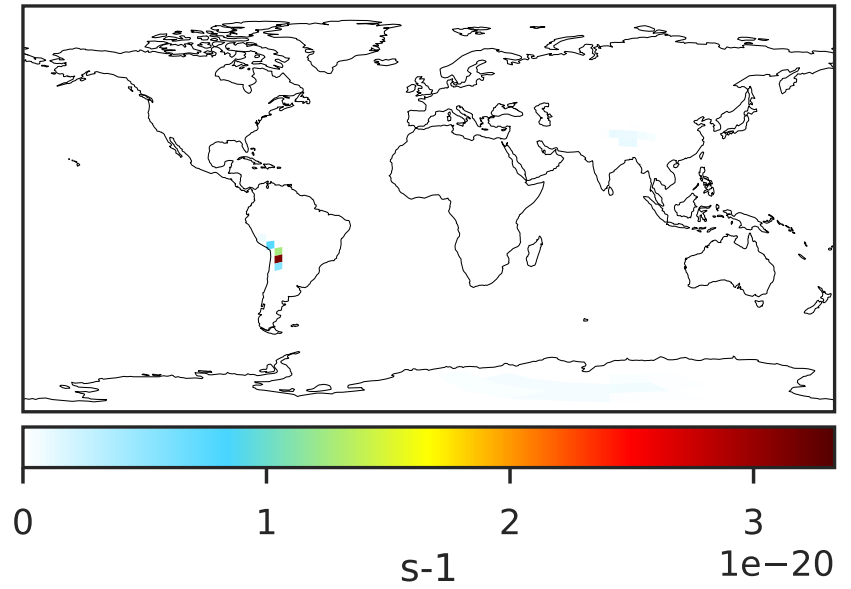
Undefined throughout domain
unitless

Jval_NO (Jan2019)

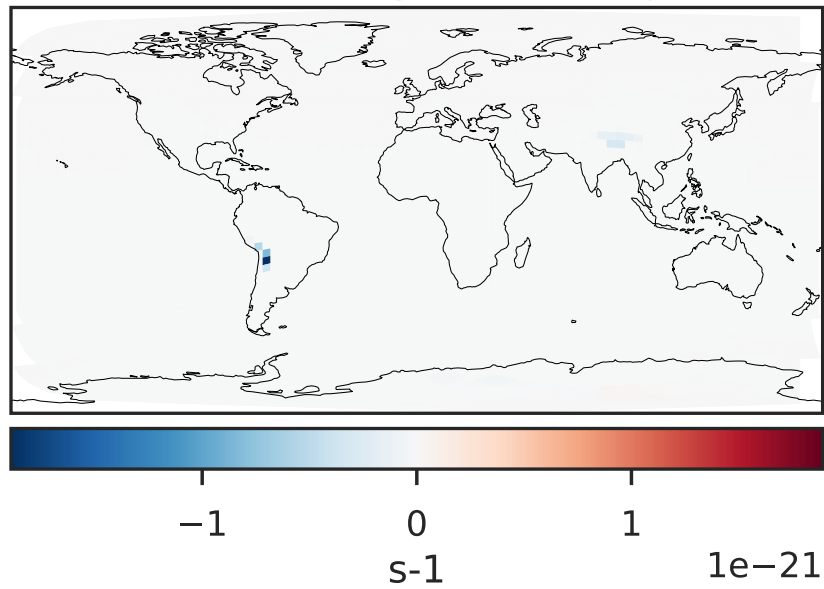
GCHP_14.0.0 (Ref)
c24



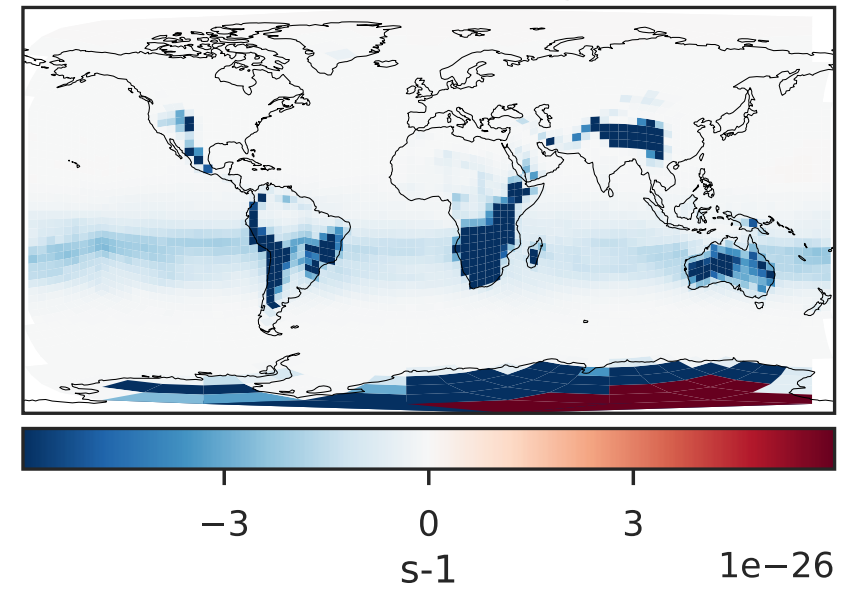
GCHP_14.2.0 (Dev)
c24



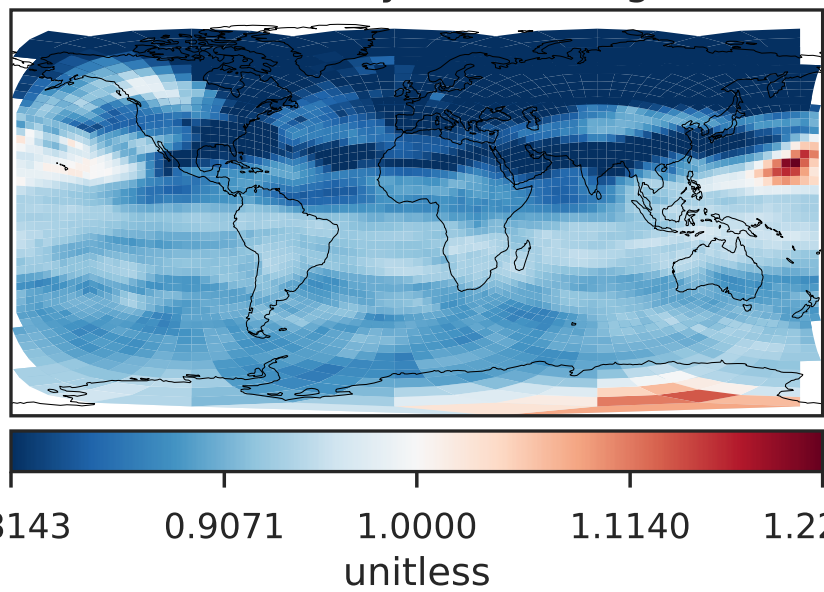
Difference
Dev - Ref, Dynamic Range



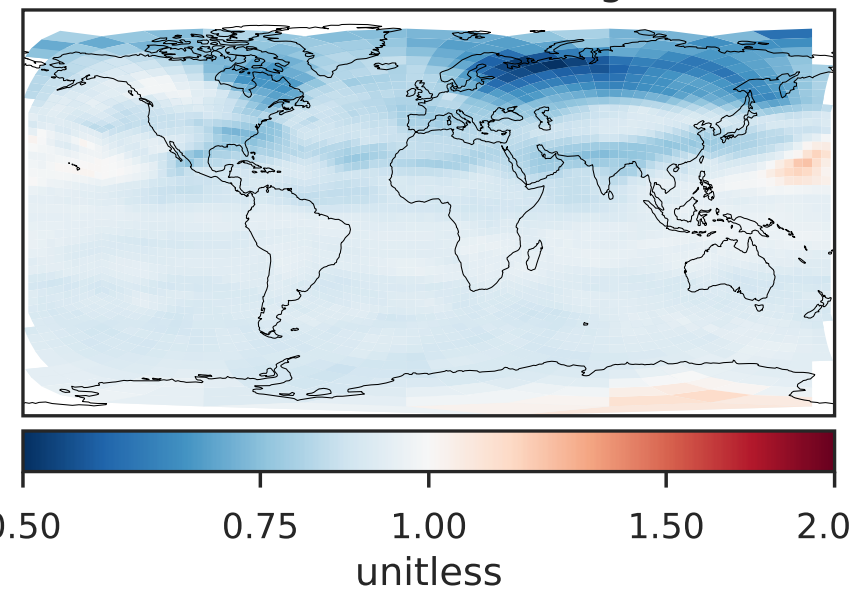
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

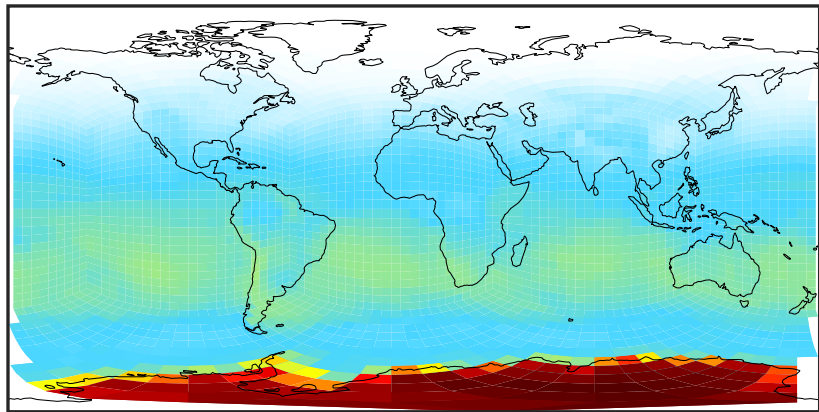


Ratio
Dev/Ref, Fixed Range



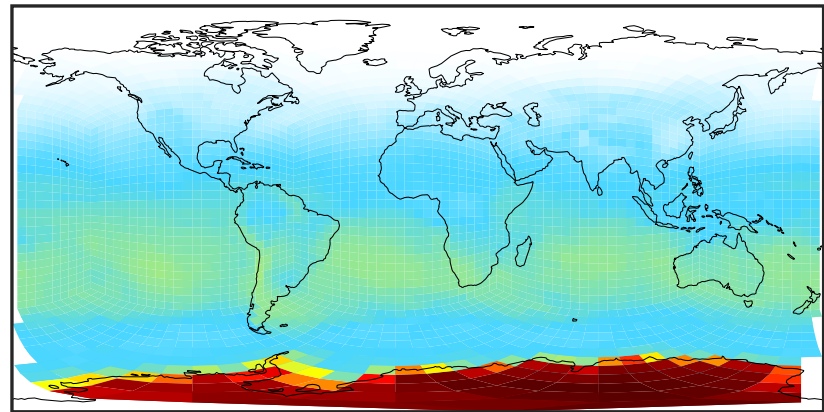
Jval_NO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



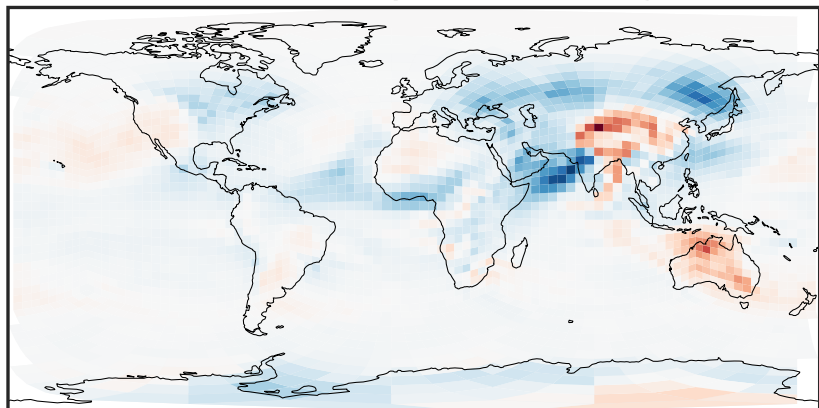
0.000 0.003 0.006 0.009
s-1

GCHP_14.2.0 (Dev)
c24



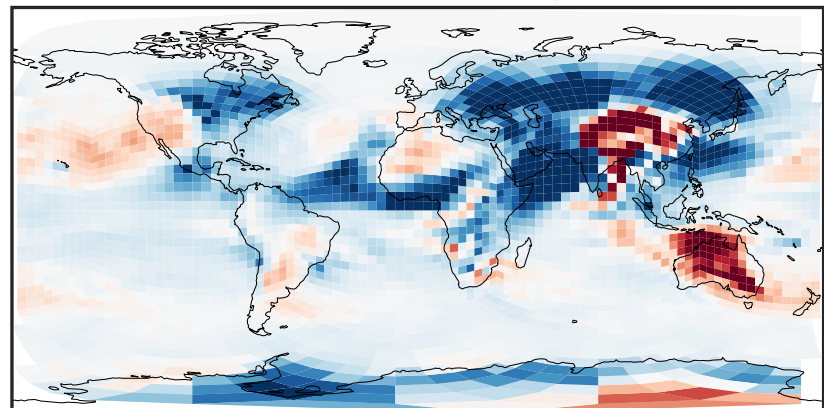
0.000 0.003 0.006 0.009
s-1

Difference
Dev - Ref, Dynamic Range



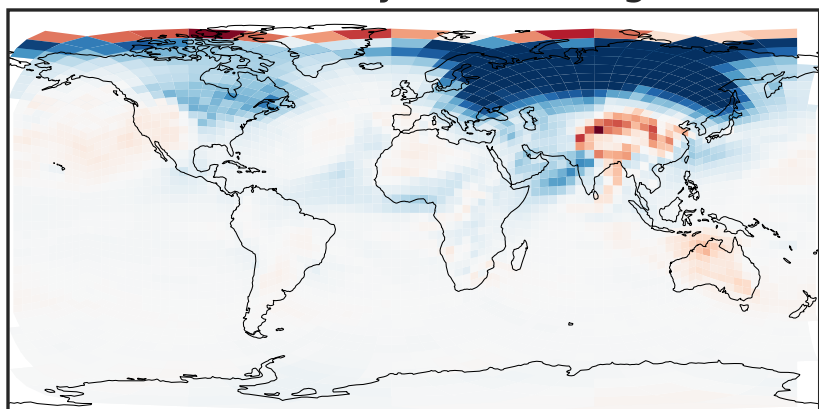
-1.5 0.0 1.5
s-1 1e-5

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



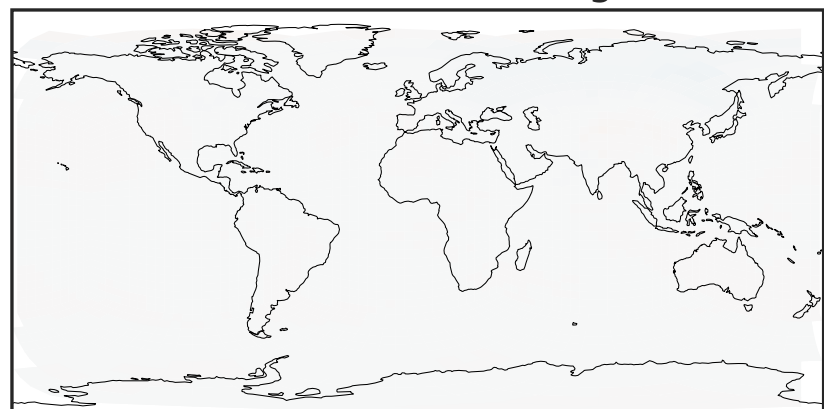
-3 0 3
s-1 1e-6

Ratio
Dev/Ref, Dynamic Range



0.98776 0.99388 1.00000 1.00619 1.01239
unitless

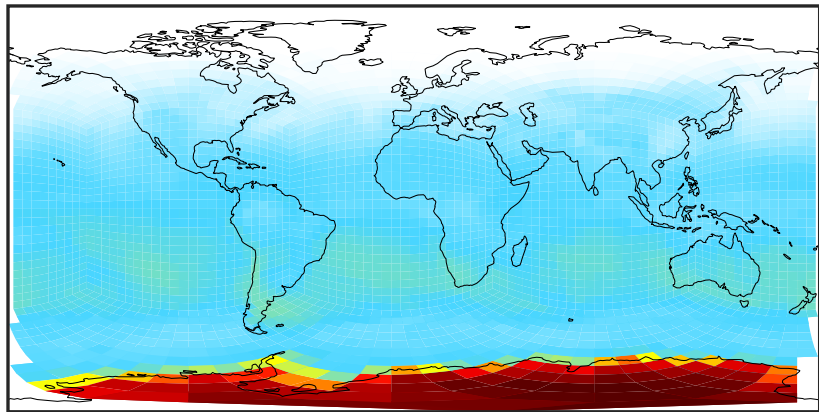
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

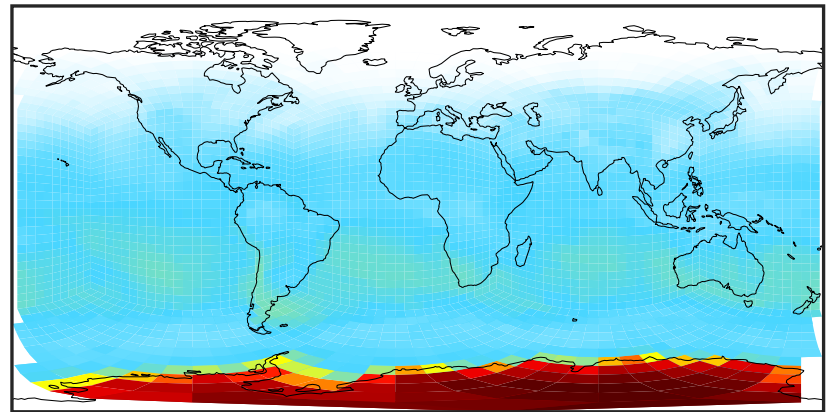
Jval_NO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



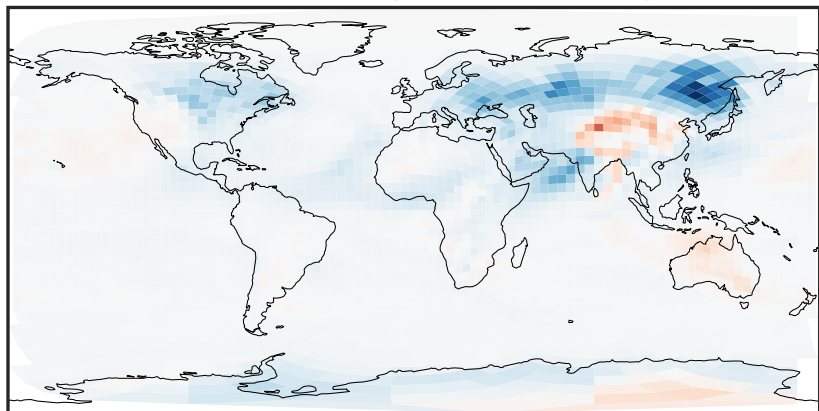
0.0000 0.0855 0.1710 0.2565 0.3420
s-1

GCHP_14.2.0 (Dev)
c24



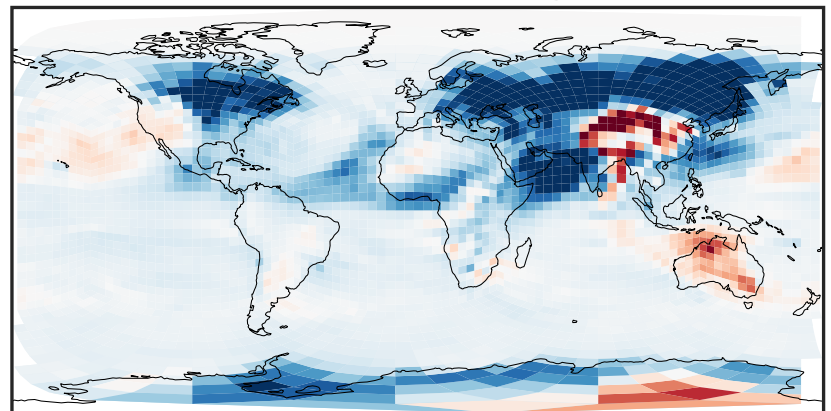
0.0000 0.0855 0.1710 0.2565 0.3420
s-1

Difference
Dev - Ref, Dynamic Range



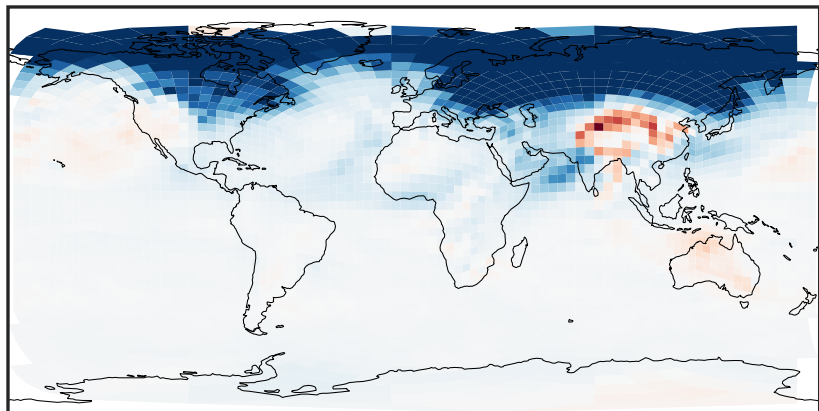
-0.0005 0.0000 0.0005
s-1

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



-0.00015 0.00000 0.00015
s-1

Ratio
Dev/Ref, Dynamic Range



0.99075 0.99537 1.00000 1.00467 1.00934
unitless

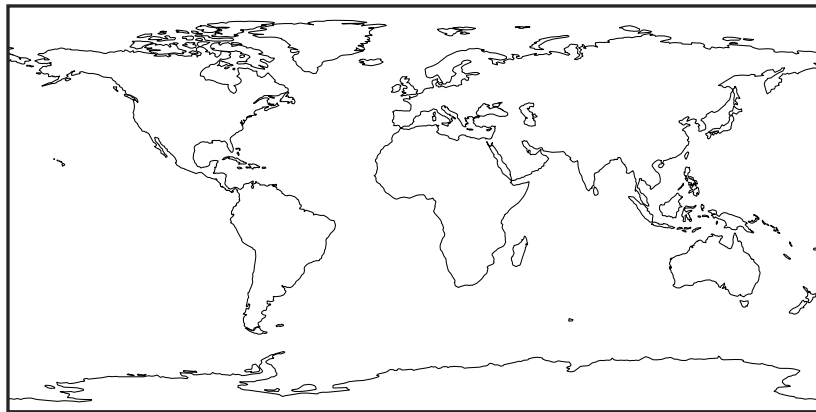
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

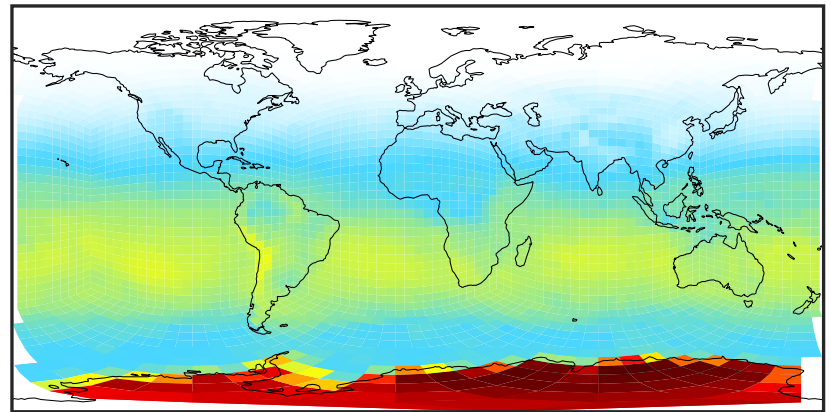
Jval_NPHEN (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



0.0 0.8 1.6 2.4
s-1 $1e-5$

Difference
Dev - Ref, Dynamic Range



Undefined throughout domain
s-1

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



Undefined throughout domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

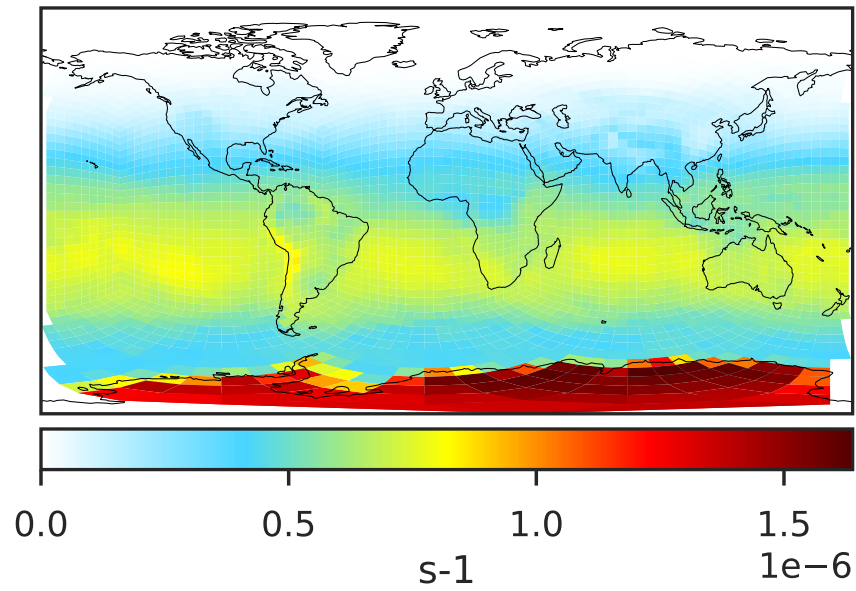
Ratio
Dev/Ref, Fixed Range



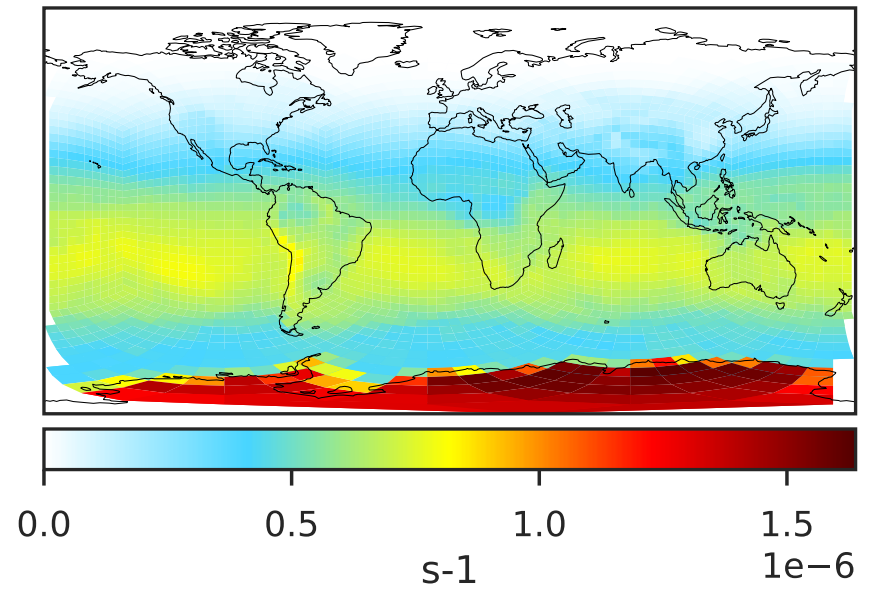
Undefined throughout domain
unitless

Jval_NPRNO3 (Jan2019)

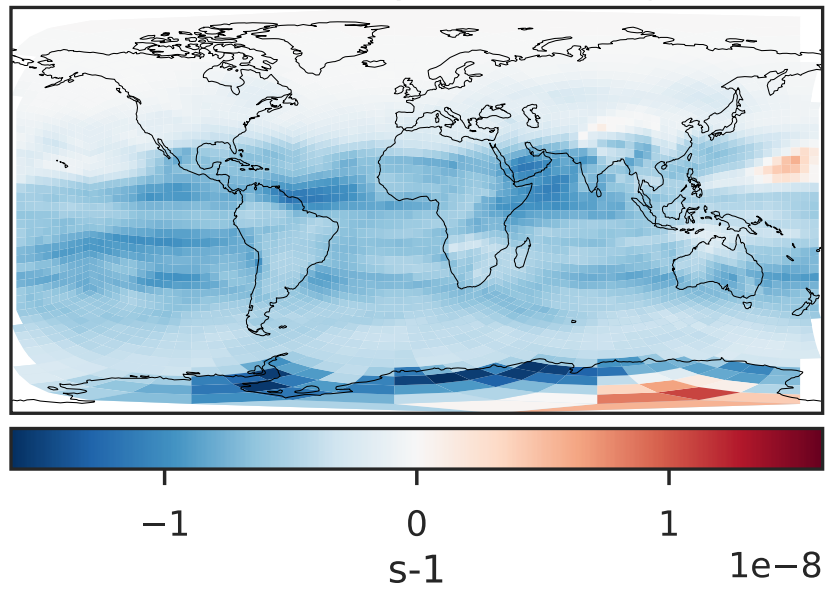
GCHP_14.0.0 (Ref)
c24



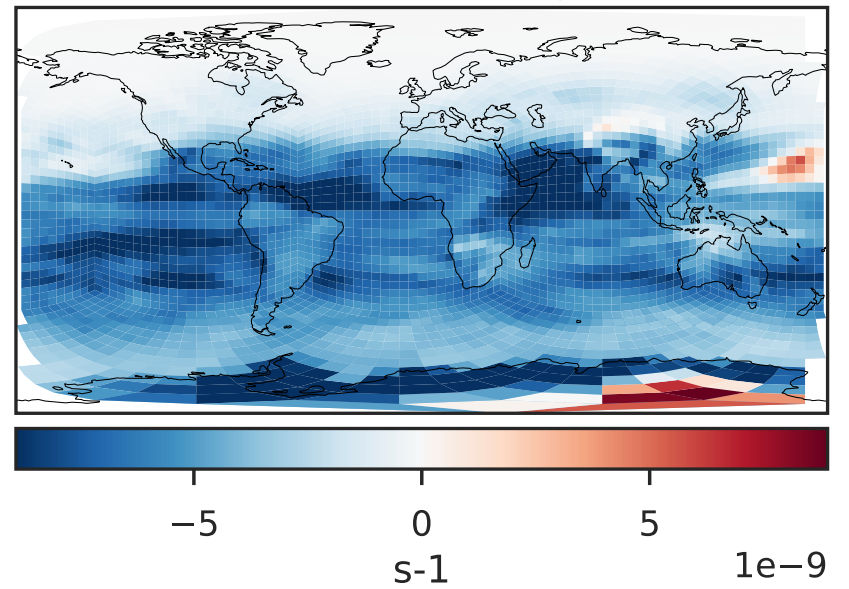
GCHP_14.2.0 (Dev)
c24



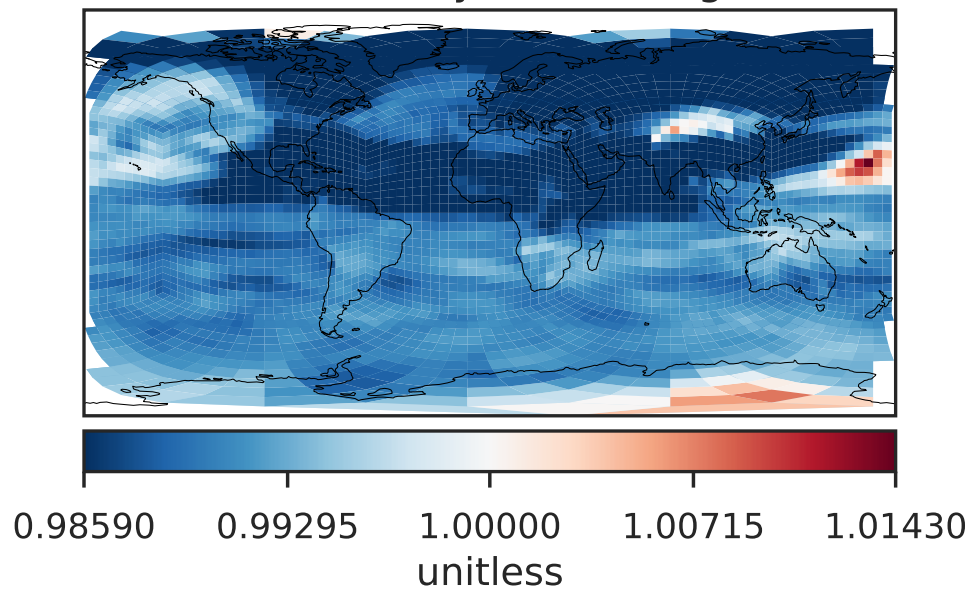
Difference
Dev - Ref, Dynamic Range



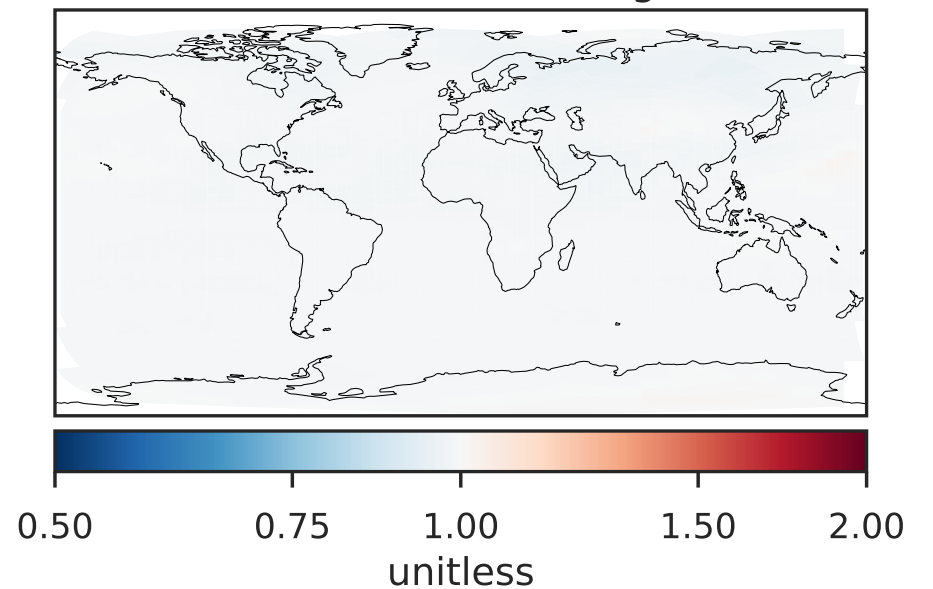
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

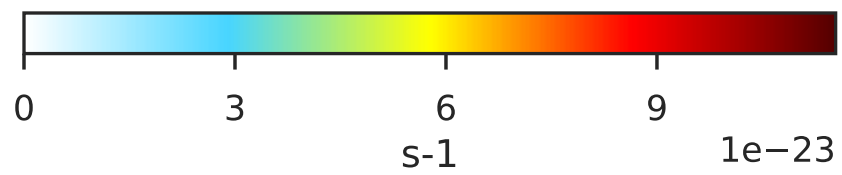
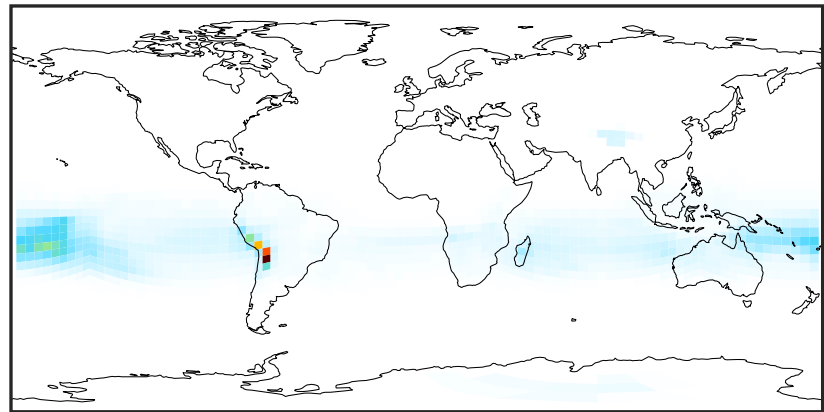


Ratio
Dev/Ref, Fixed Range

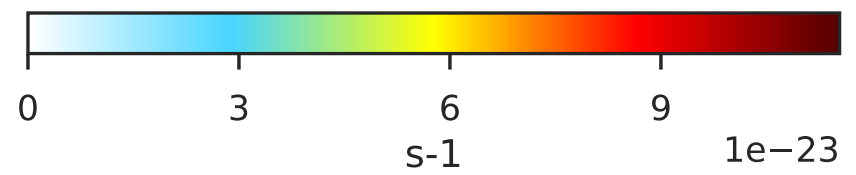
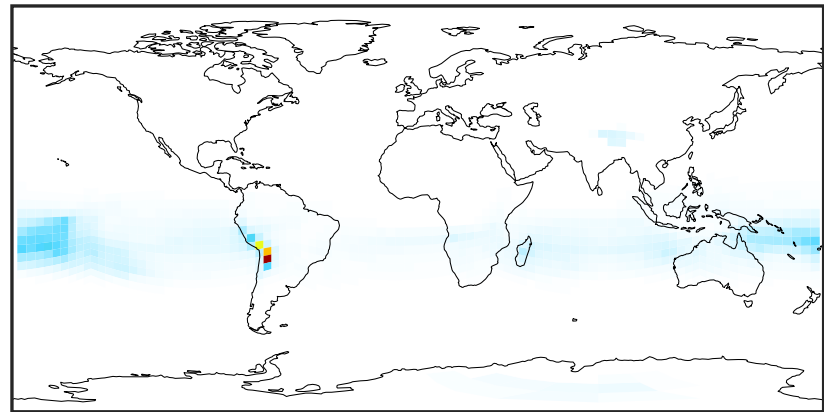


Jval_O2 (Jan2019)

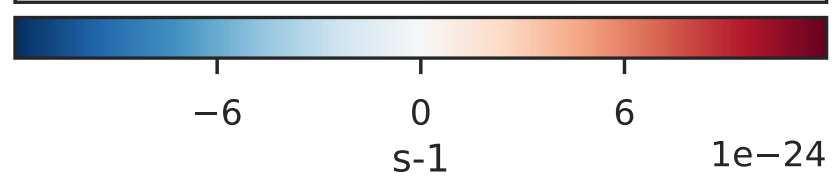
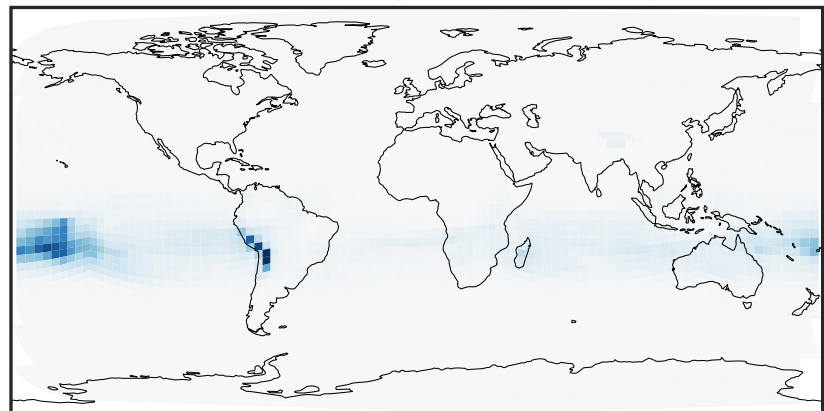
GCHP_14.0.0 (Ref)
c24



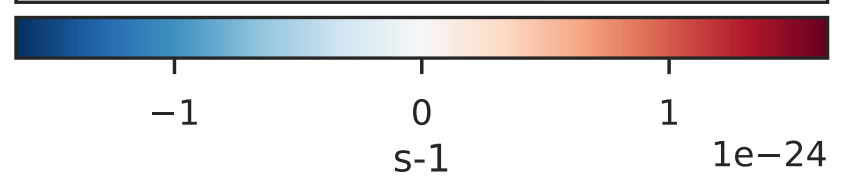
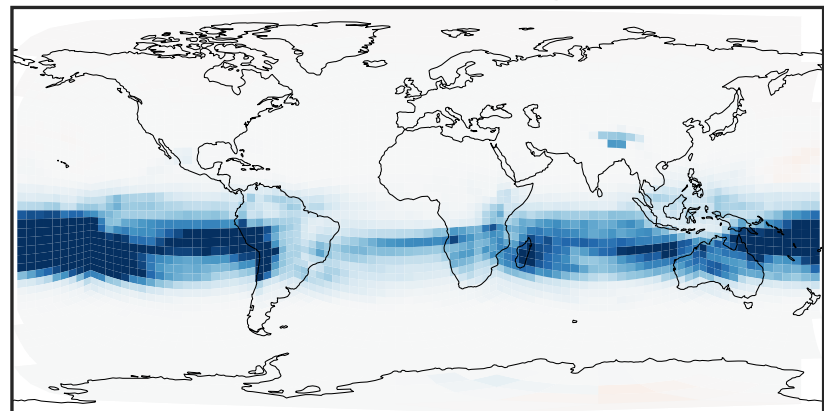
GCHP_14.2.0 (Dev)
c24



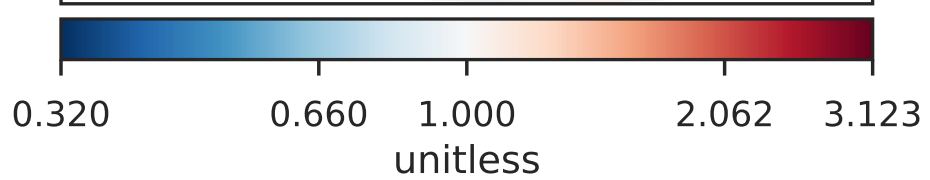
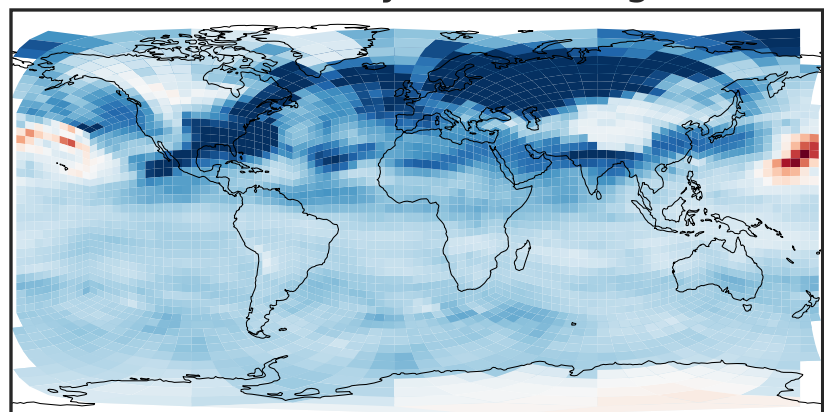
Difference
Dev - Ref, Dynamic Range



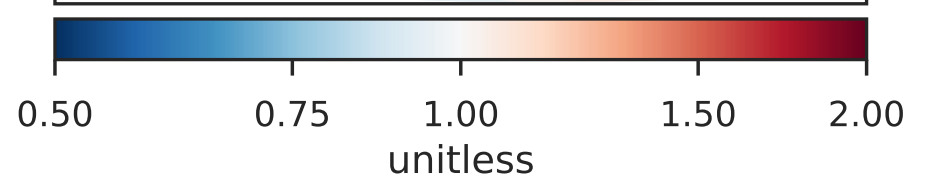
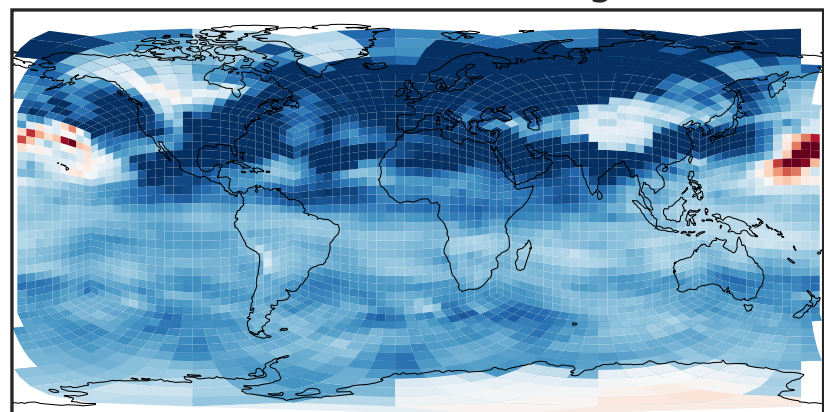
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

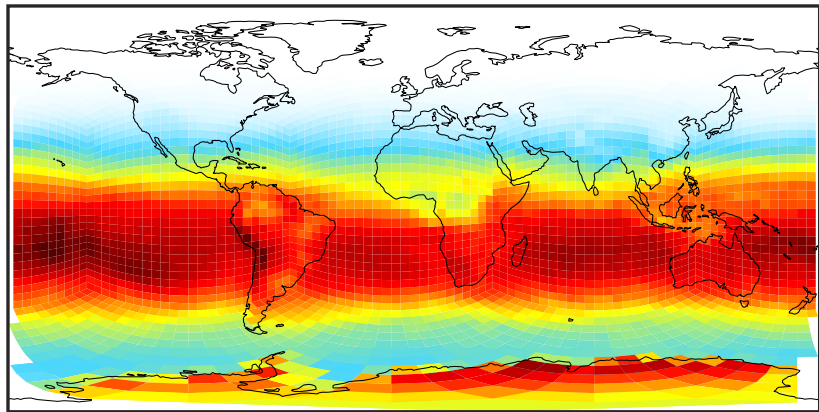


Ratio
Dev/Ref, Fixed Range



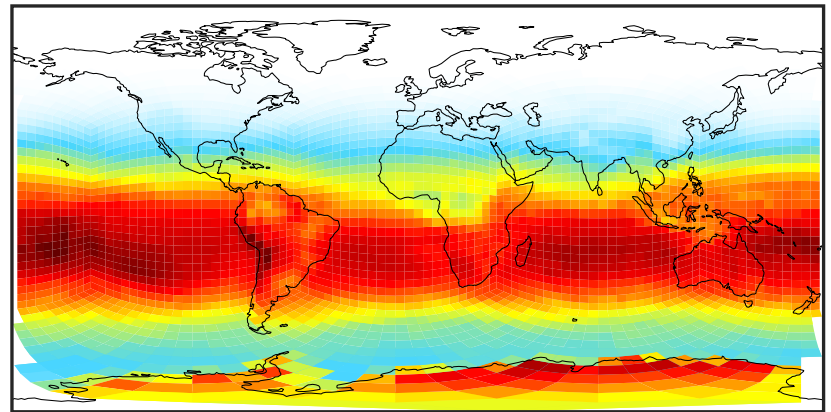
Jval_O3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



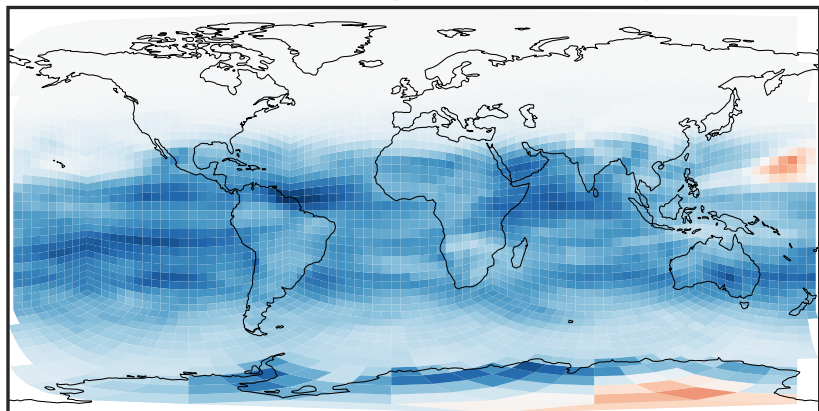
0.0 0.4 0.8 1.2 10^{-5}
s-1

GCHP_14.2.0 (Dev)
c24



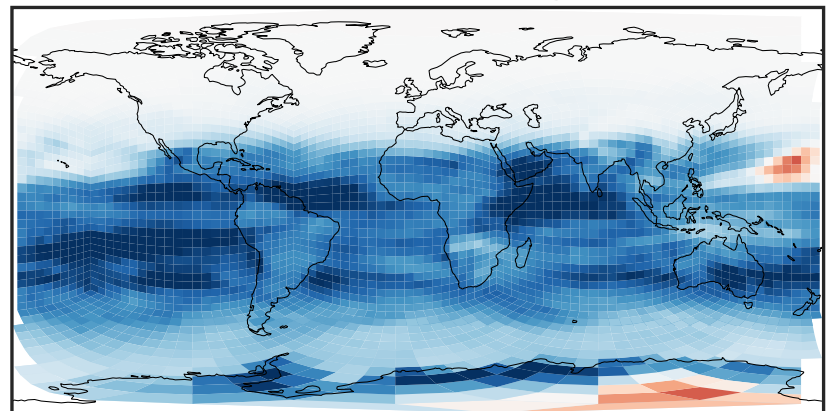
0.0 0.4 0.8 1.2 10^{-5}
s-1

Difference
Dev - Ref, Dynamic Range



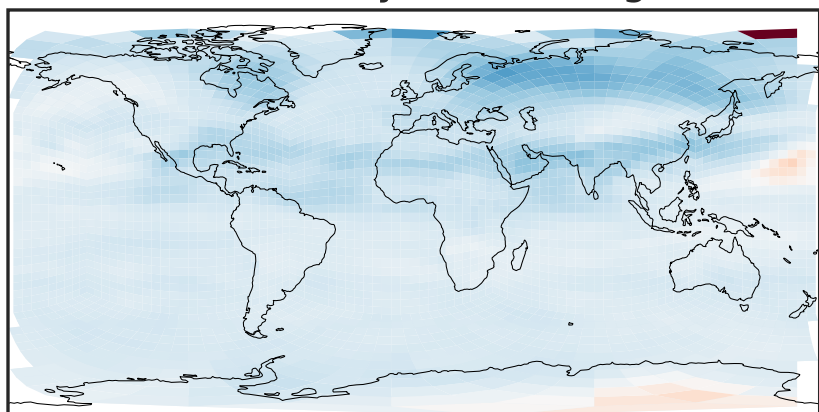
-2.5 0.0 2.5 10^{-7}
s-1

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



-2 0 2 10^{-7}
s-1

Ratio
Dev/Ref, Dynamic Range



0.8556 0.9278 1.0000 1.0844 1.1687
unitless

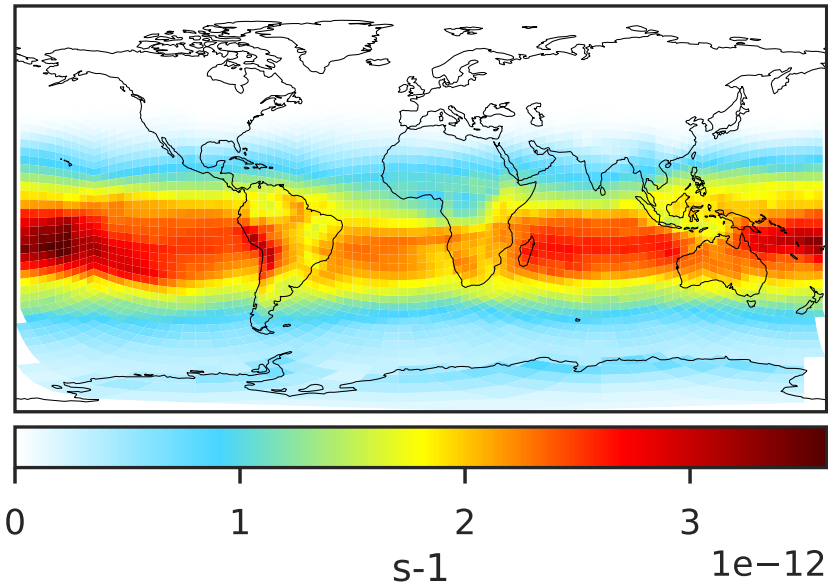
Ratio
Dev/Ref, Fixed Range



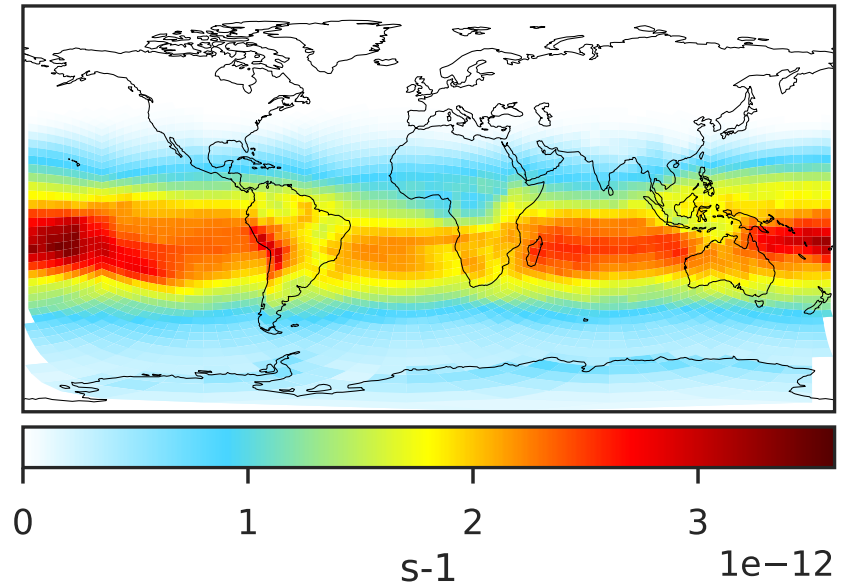
0.50 0.75 1.00 1.50 2.00
unitless

Jval_OCS (Jan2019)

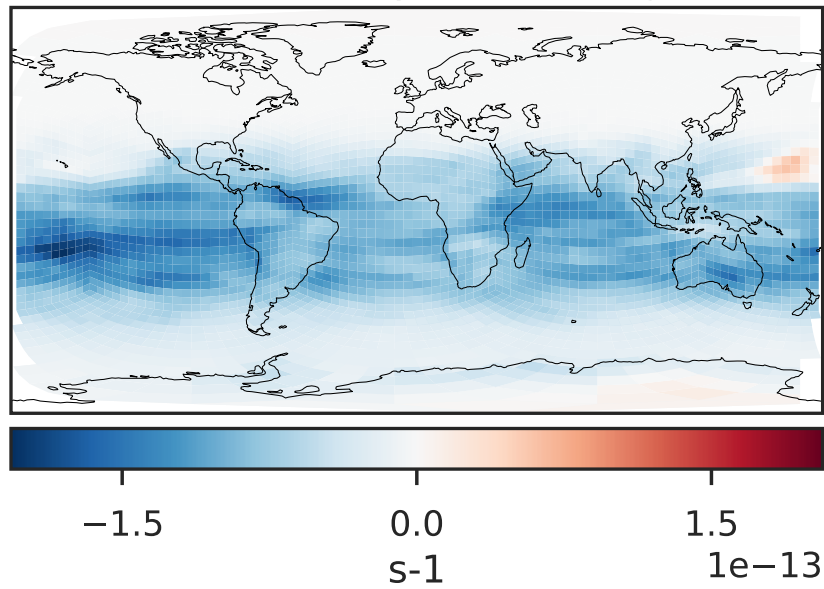
GCHP_14.0.0 (Ref)
c24



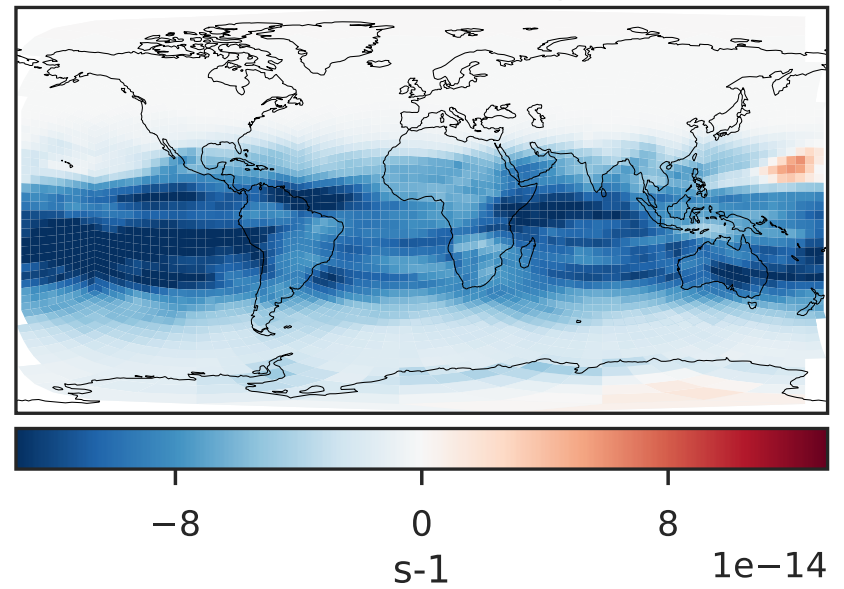
GCHP_14.2.0 (Dev)
c24



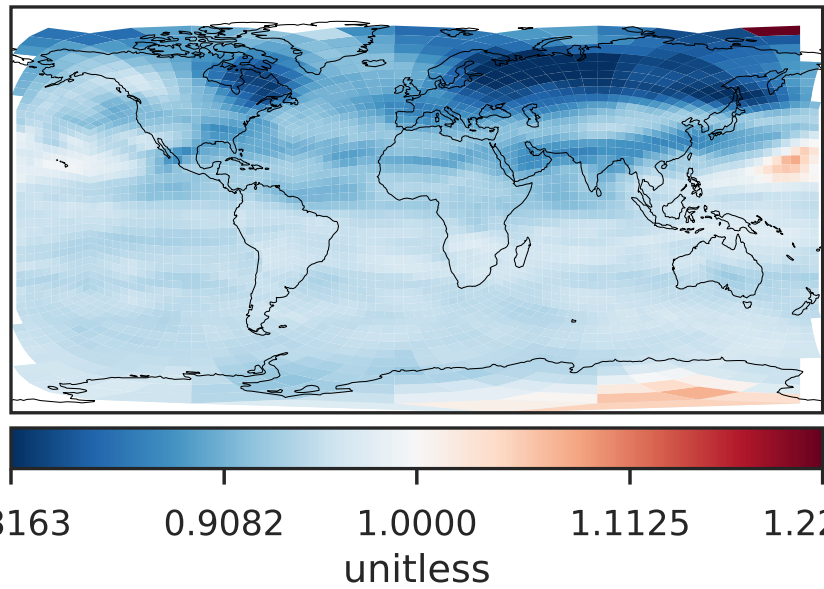
Difference
Dev - Ref, Dynamic Range



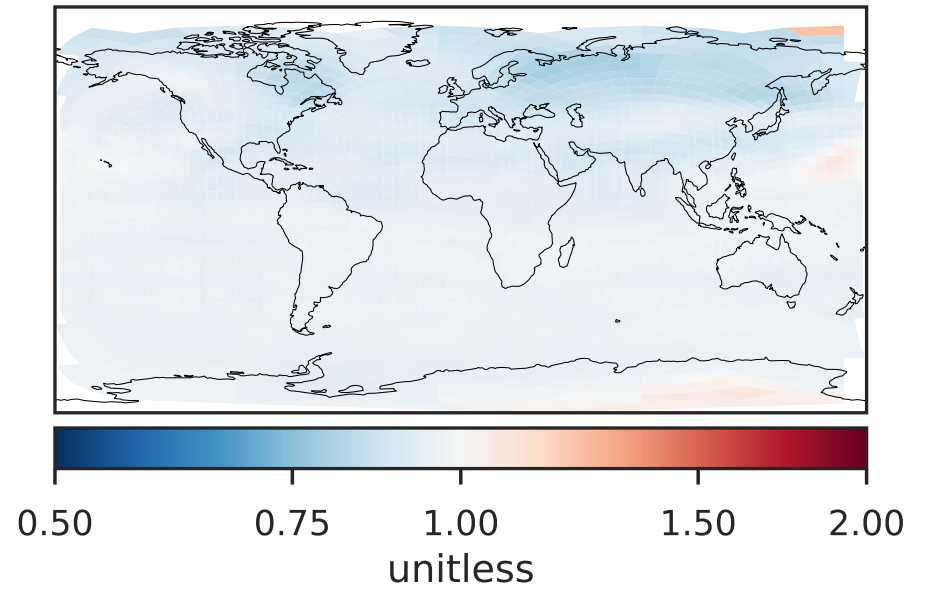
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

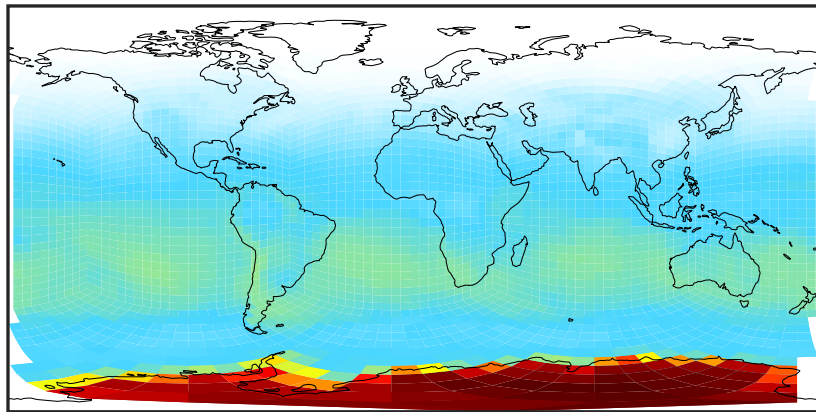


Ratio
Dev/Ref, Fixed Range



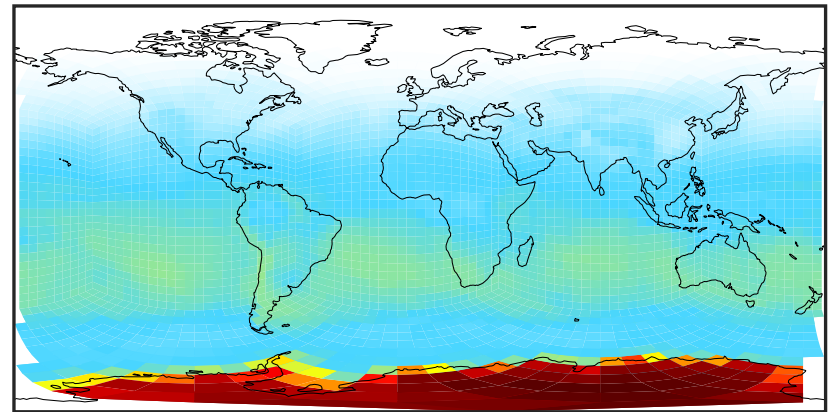
Jval_OCIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



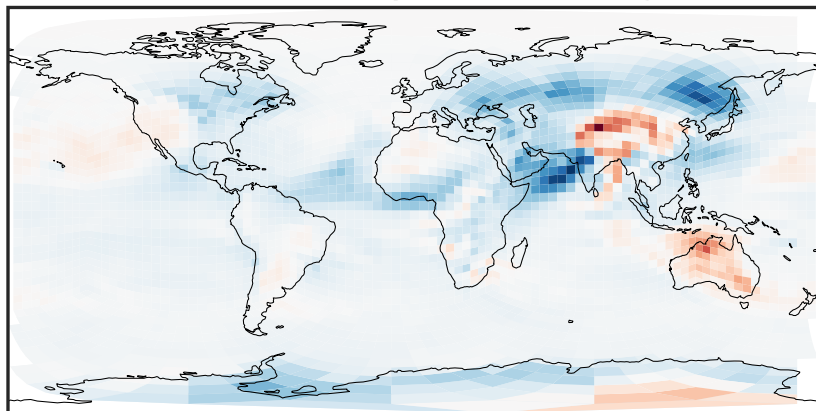
0.0000 0.0263 0.0526 0.0790 0.1053
s-1

GCHP_14.2.0 (Dev)
c24



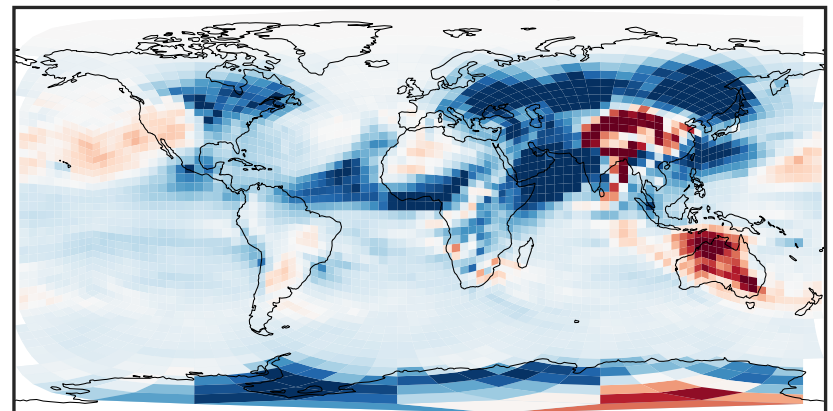
0.0000 0.0263 0.0526 0.0790 0.1053
s-1

Difference
Dev - Ref, Dynamic Range



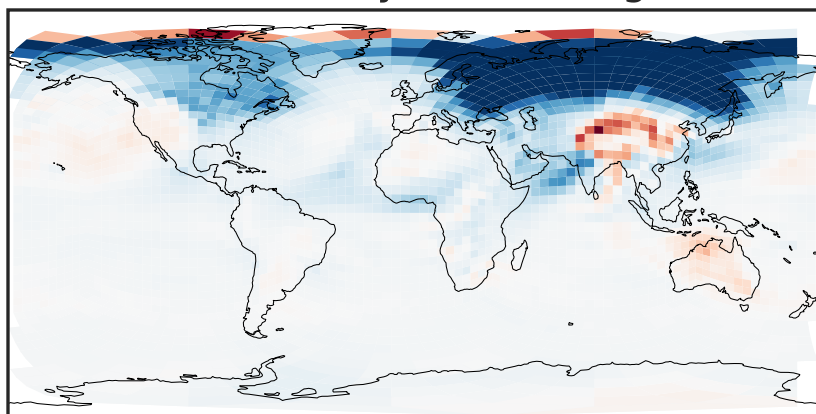
-0.0001 0.0000 0.0001
s-1

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



-3 0 3
s-1 1e-5

Ratio
Dev/Ref, Dynamic Range



0.98823 0.99411 1.00000 1.00596 1.01191
unitless

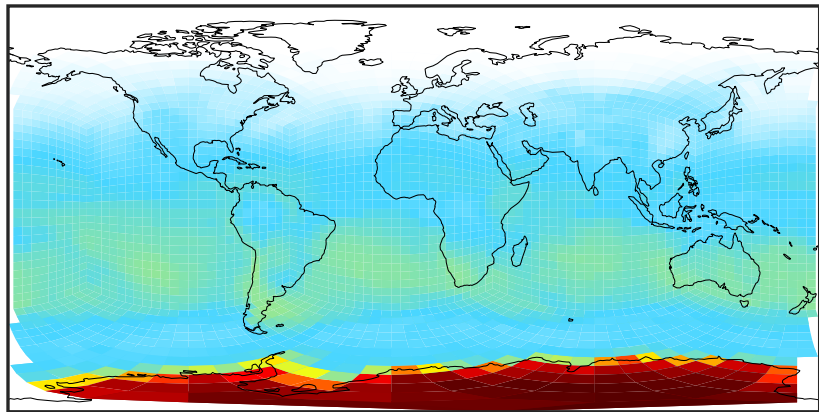
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

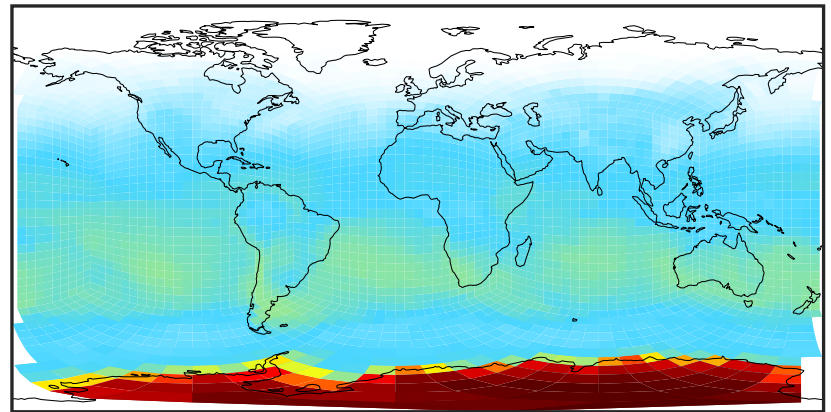
Jval_OIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



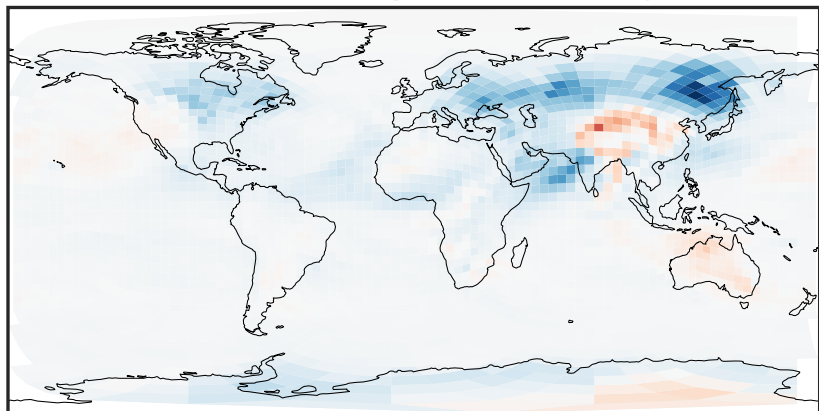
0.0000 0.0827 0.1654 0.2482 0.3309
s-1

GCHP_14.2.0 (Dev)
c24



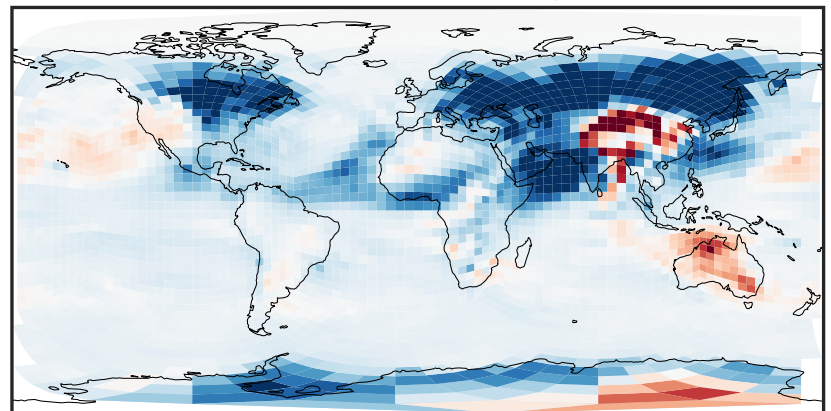
0.0000 0.0827 0.1654 0.2482 0.3309
s-1

Difference
Dev - Ref, Dynamic Range



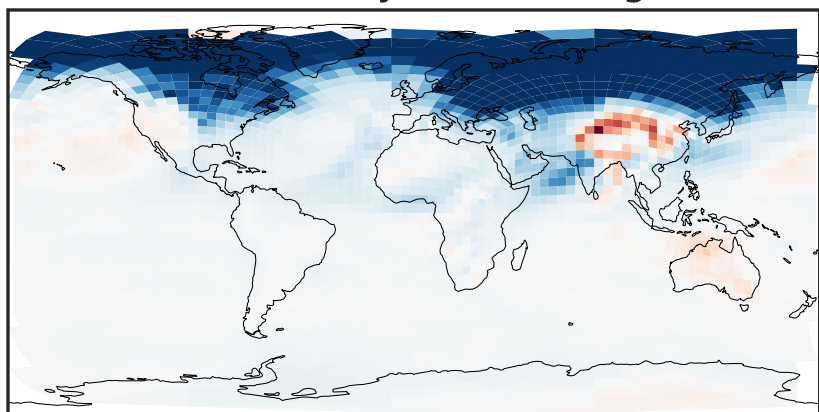
-0.0005 0.0000 0.0005
s-1

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



-0.00015 0.00000 0.00015
s-1

Ratio
Dev/Ref, Dynamic Range



0.99075 0.99537 1.00000 1.00467 1.00934
unitless

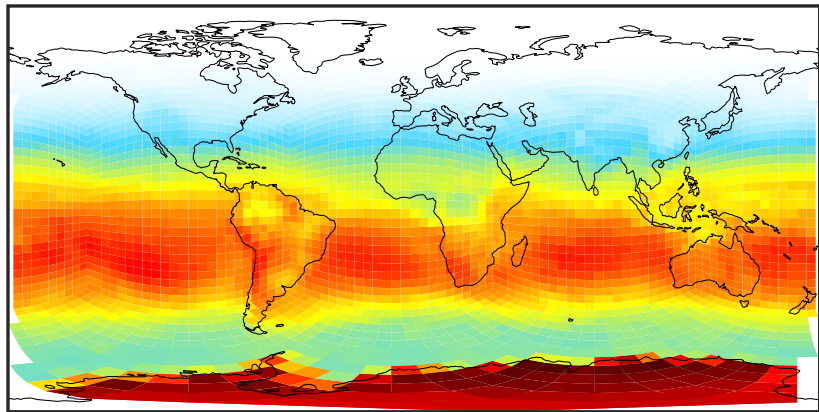
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

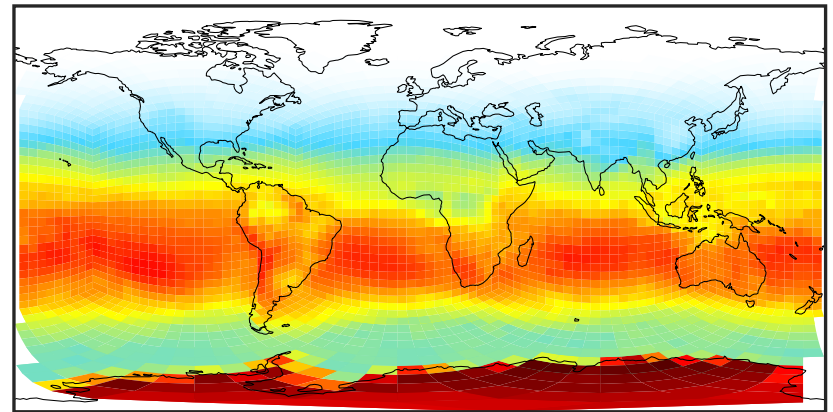
Jval_PAN (Jan2019)

GCHP_14.0.0 (Ref)
c24



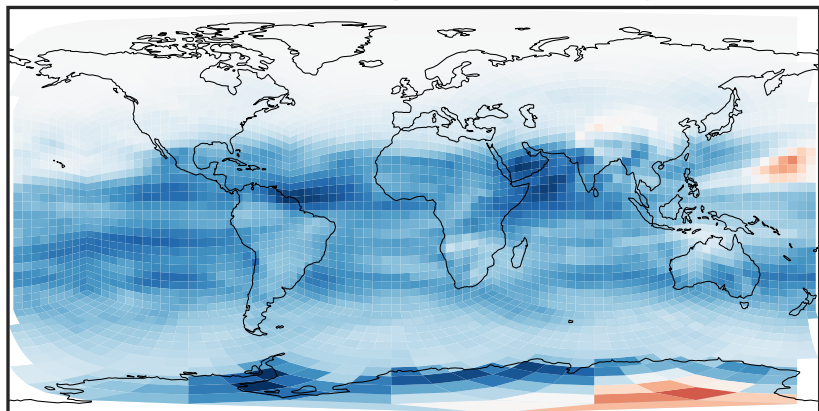
0.0 1.5 3.0 $1e-7$
s-1

GCHP_14.2.0 (Dev)
c24



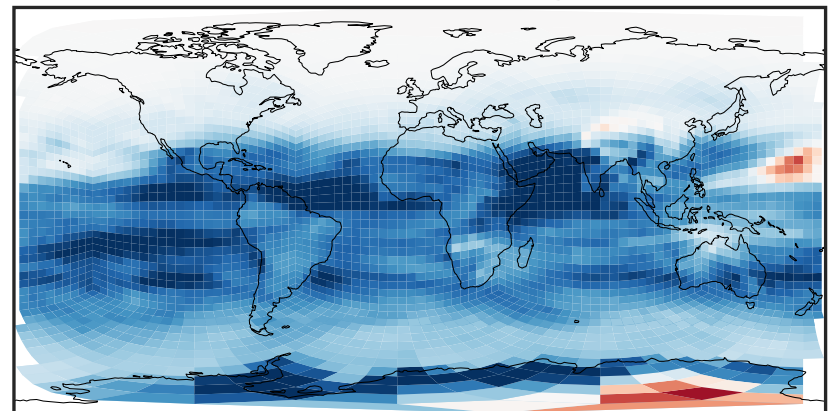
0.0 1.5 3.0 $1e-7$
s-1

Difference
Dev - Ref, Dynamic Range



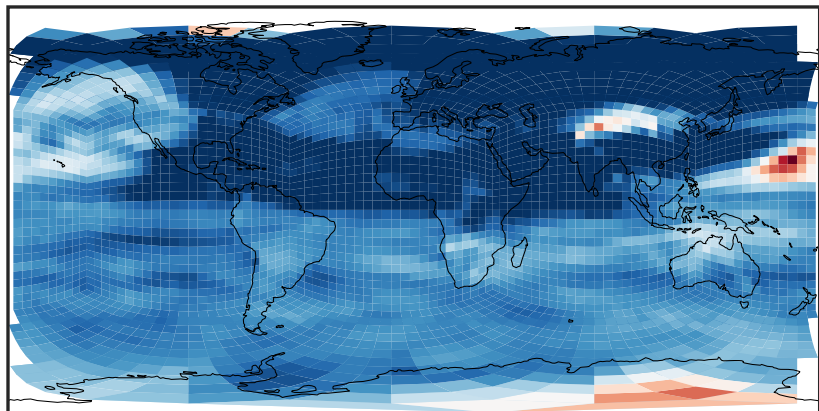
-2.5 0.0 2.5 $1e-9$
s-1

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



-2 0 2 $1e-9$
s-1

Ratio
Dev/Ref, Dynamic Range



0.98776 0.99388 1.00000 1.00620 1.01239
unitless

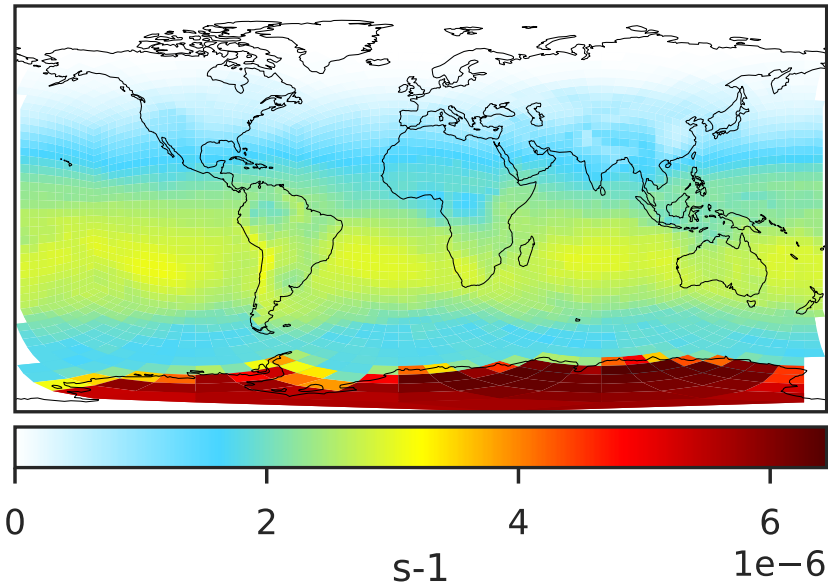
Ratio
Dev/Ref, Fixed Range



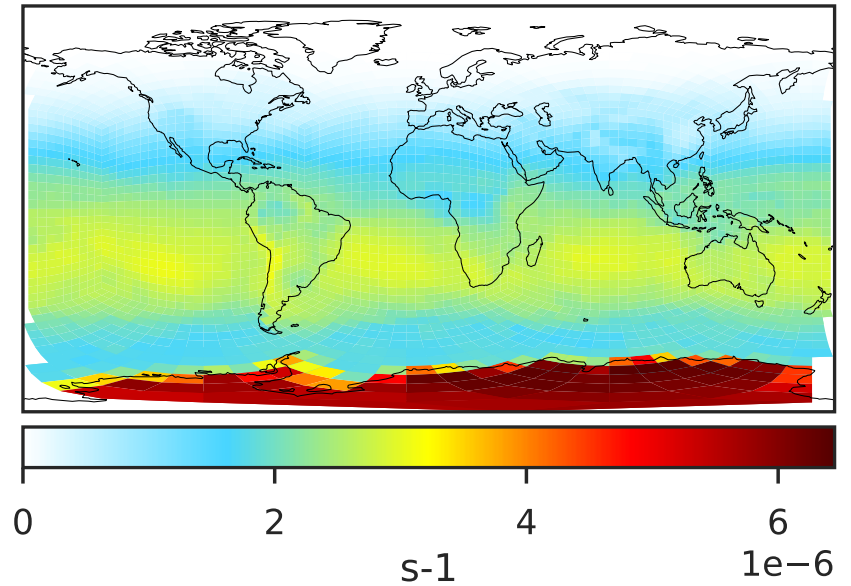
0.50 0.75 1.00 1.50 2.00
unitless

Jval_PIP (Jan2019)

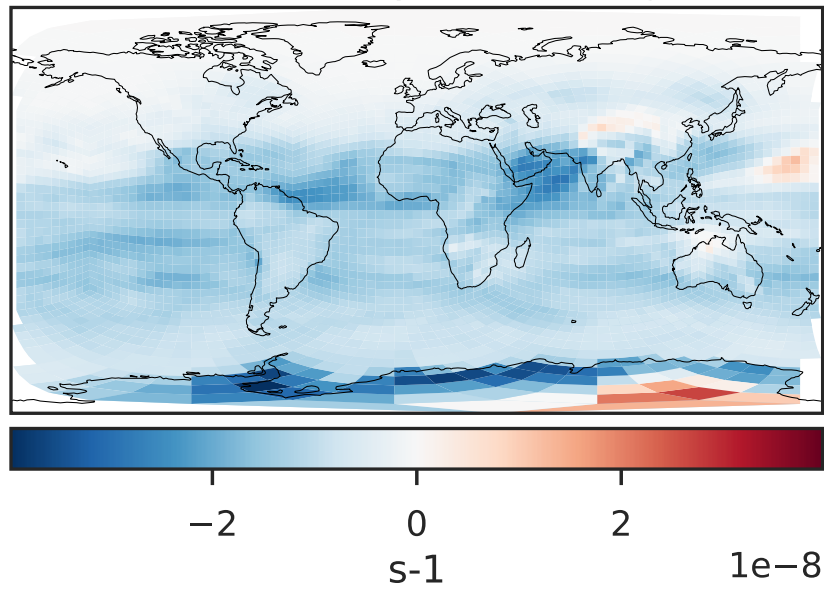
GCHP_14.0.0 (Ref)
c24



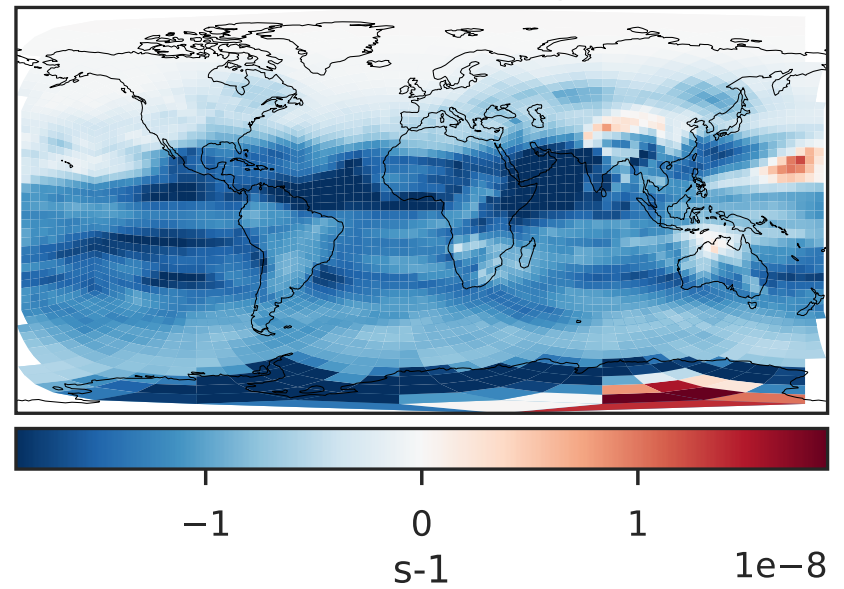
GCHP_14.2.0 (Dev)
c24



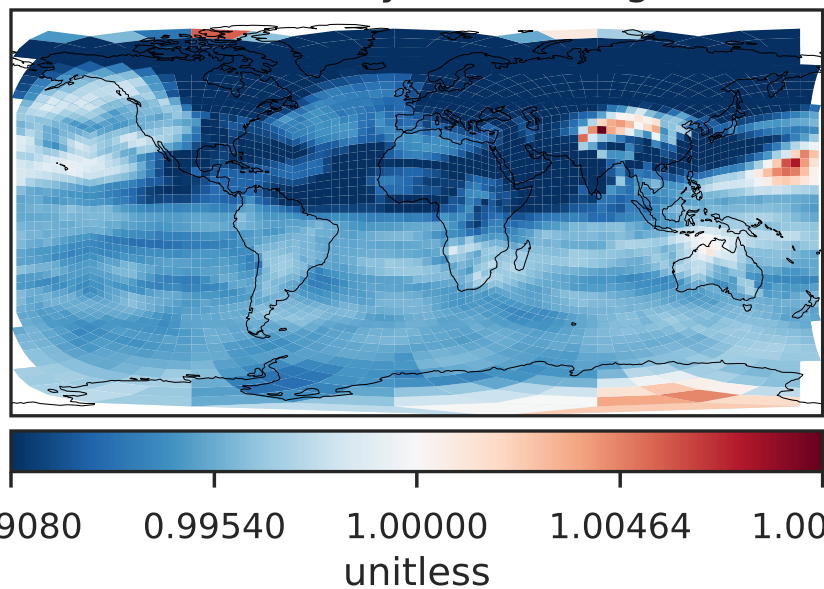
Difference
Dev - Ref, Dynamic Range



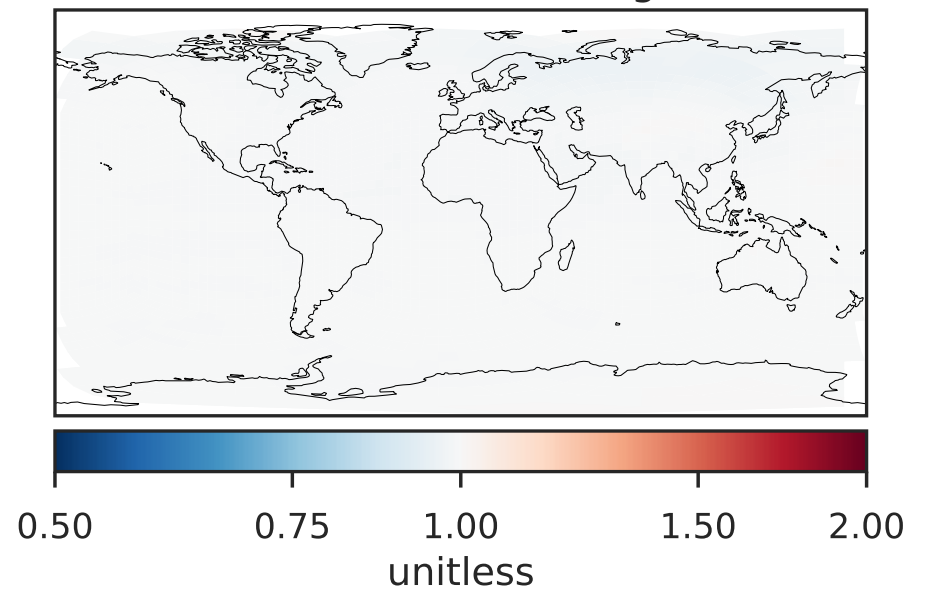
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

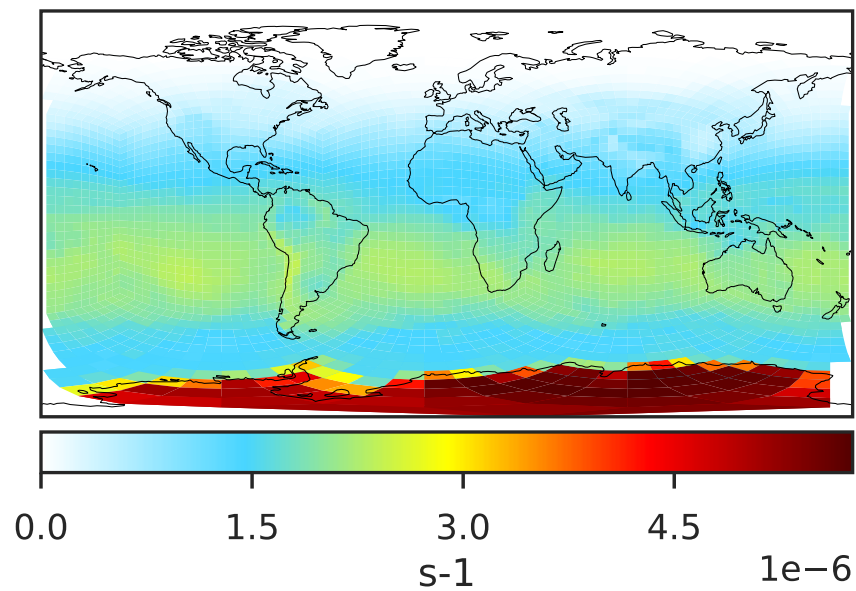


Ratio
Dev/Ref, Fixed Range

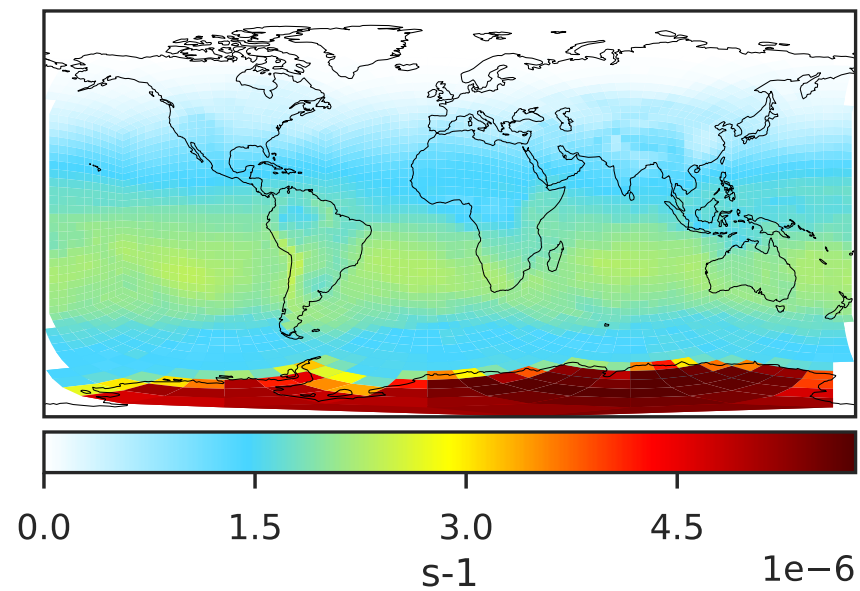


Jval_PP (Jan2019)

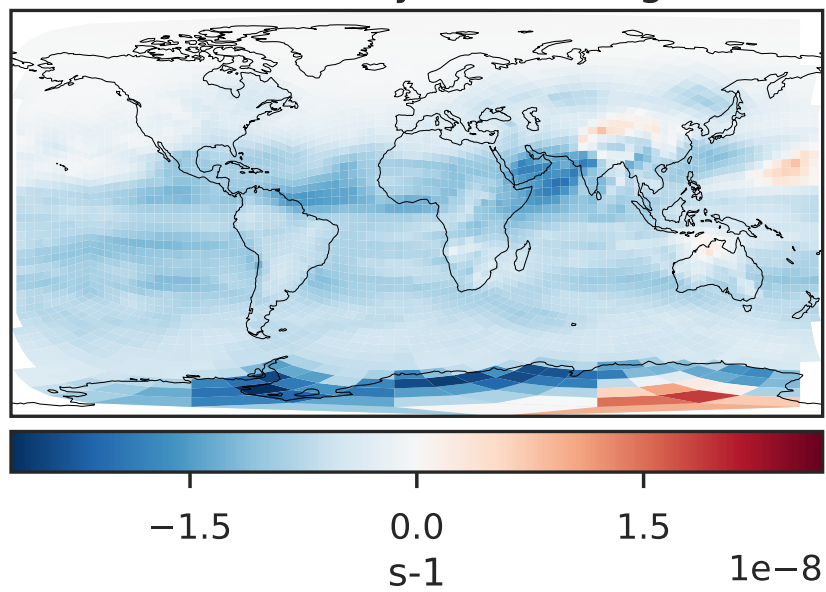
GCHP_14.0.0 (Ref)
c24



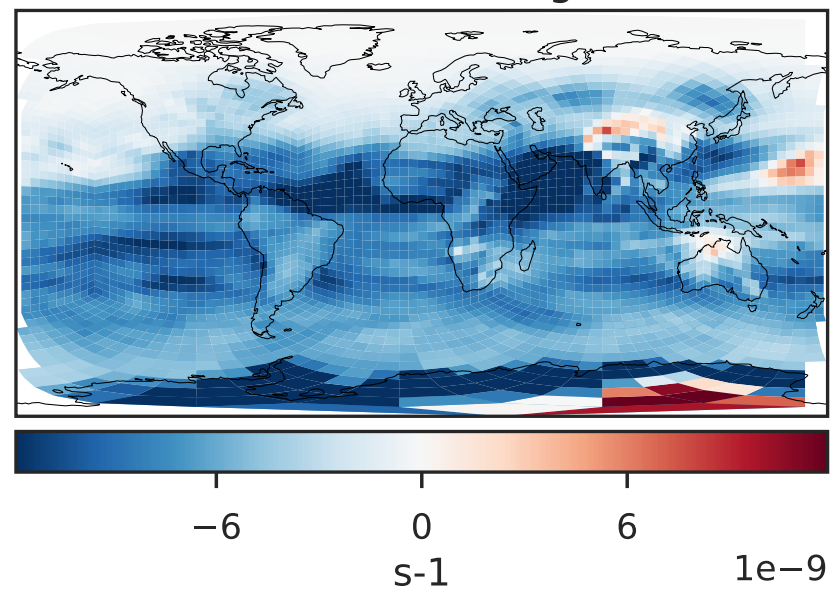
GCHP_14.2.0 (Dev)
c24



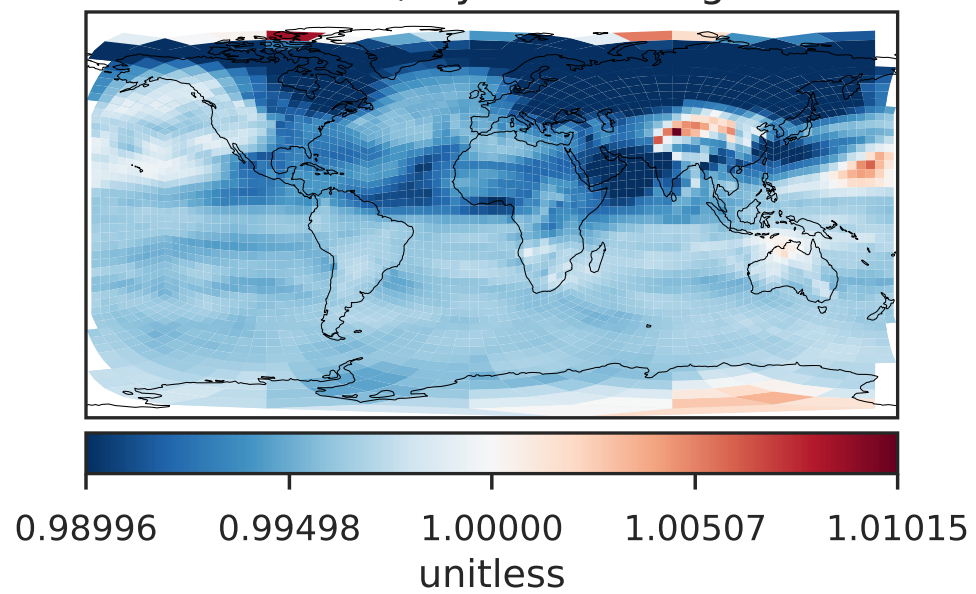
Difference
Dev - Ref, Dynamic Range



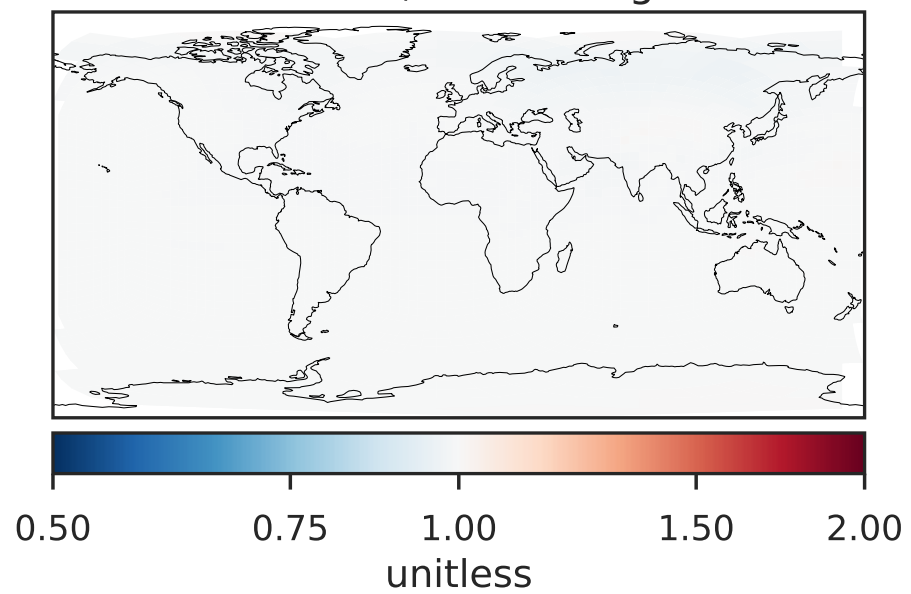
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

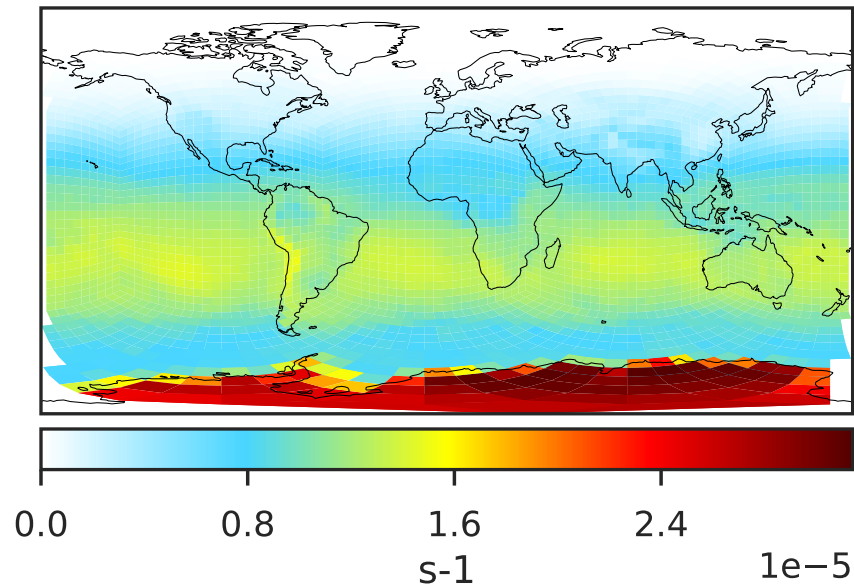


Ratio
Dev/Ref, Fixed Range

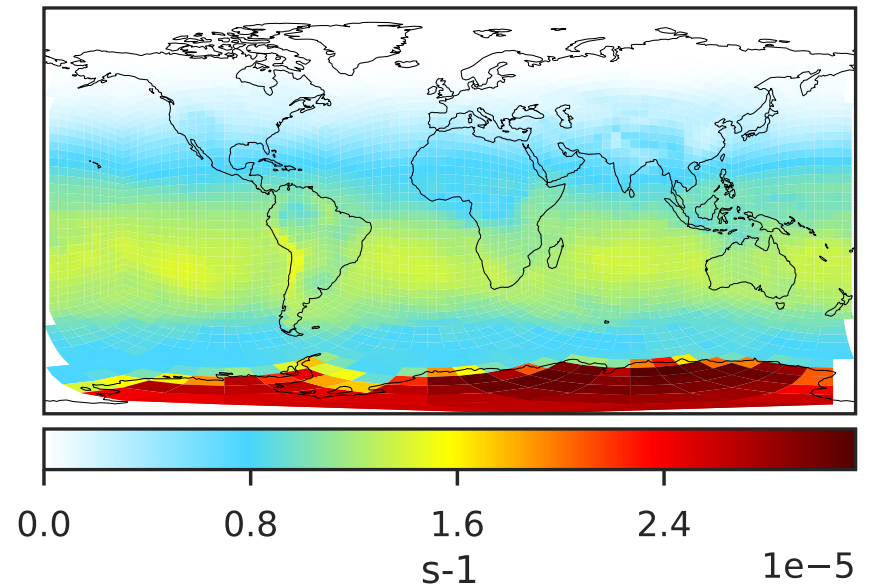


Jval_PROPNN (Jan2019)

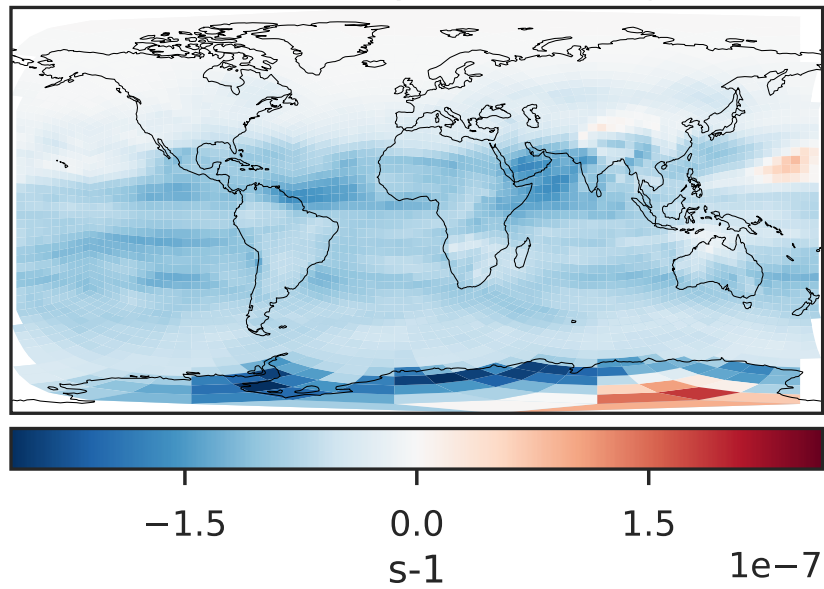
GCHP_14.0.0 (Ref)
c24



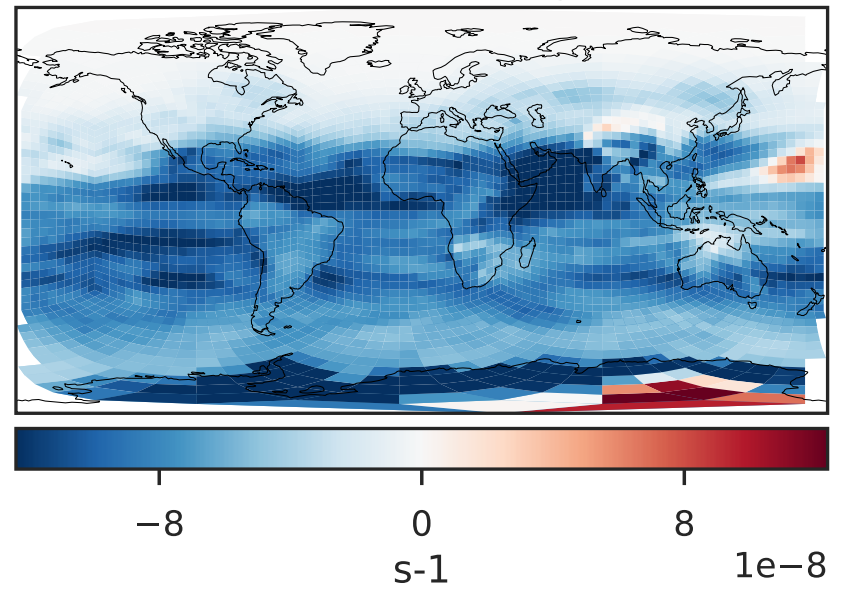
GCHP_14.2.0 (Dev)
c24



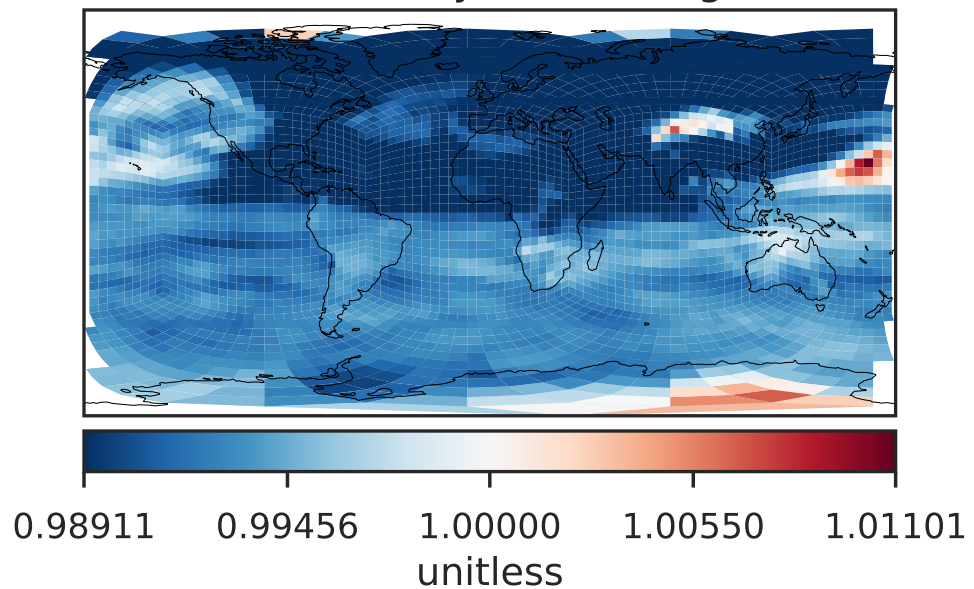
Difference
Dev - Ref, Dynamic Range



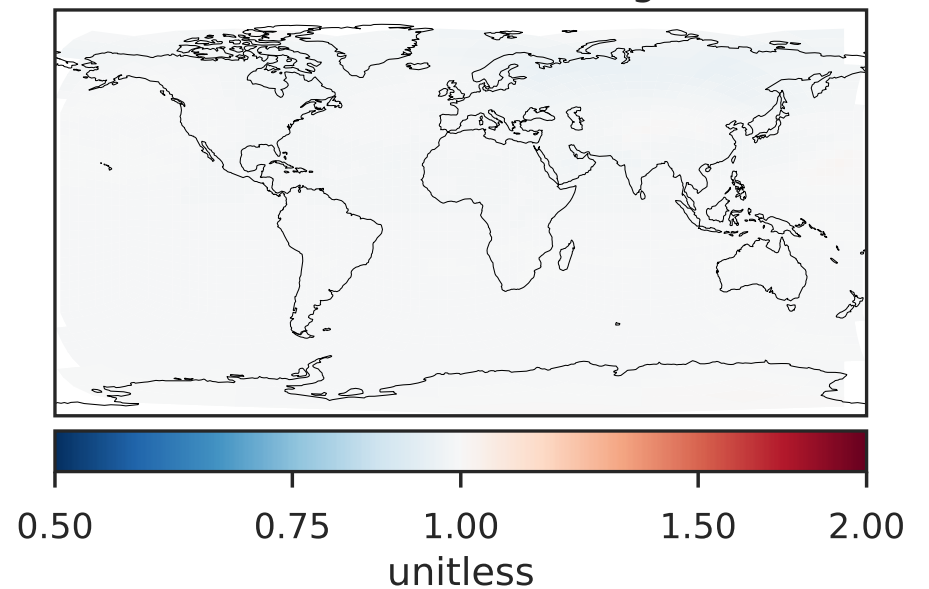
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

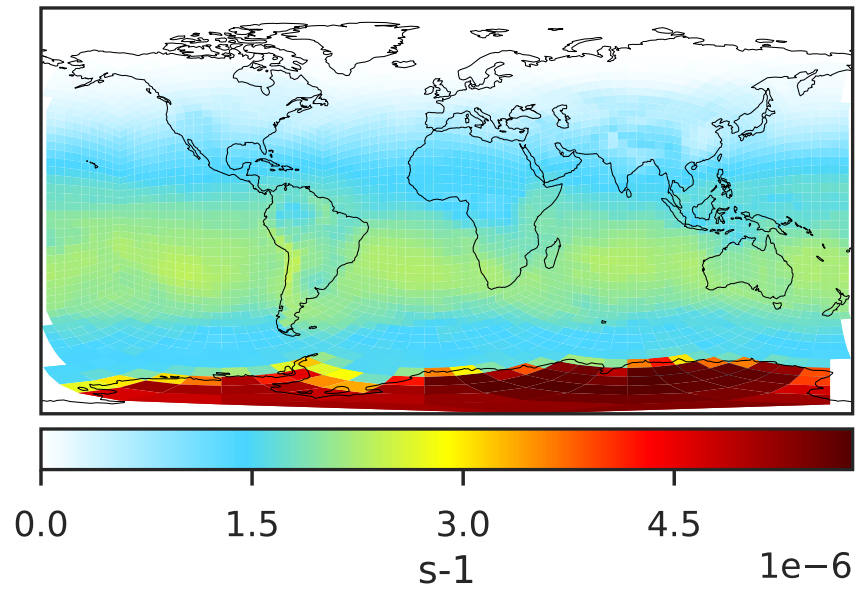


Ratio
Dev/Ref, Fixed Range

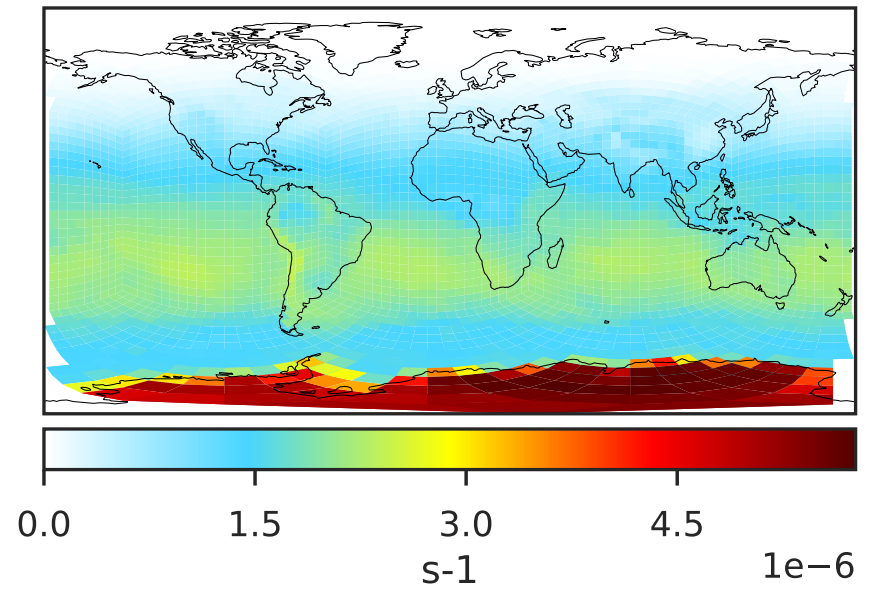


Jval_PRPN (Jan2019)

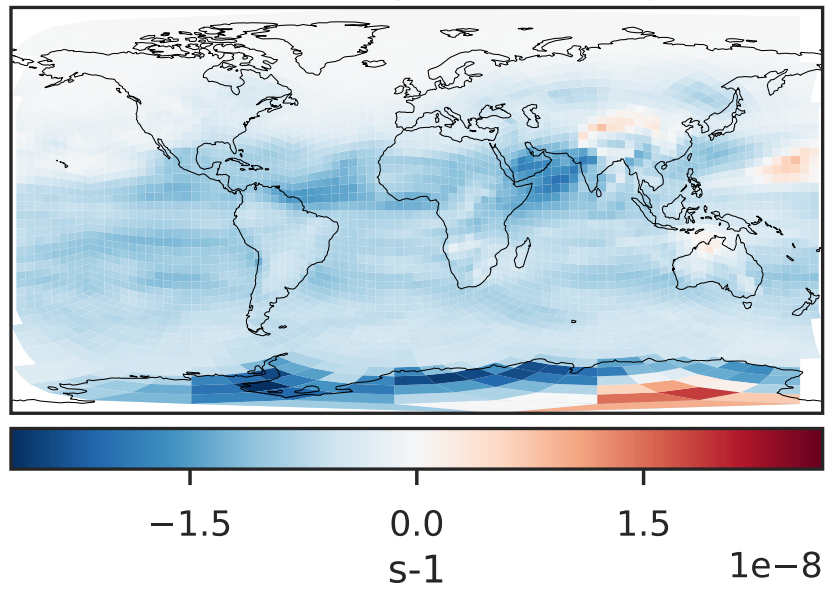
GCHP_14.0.0 (Ref)
c24



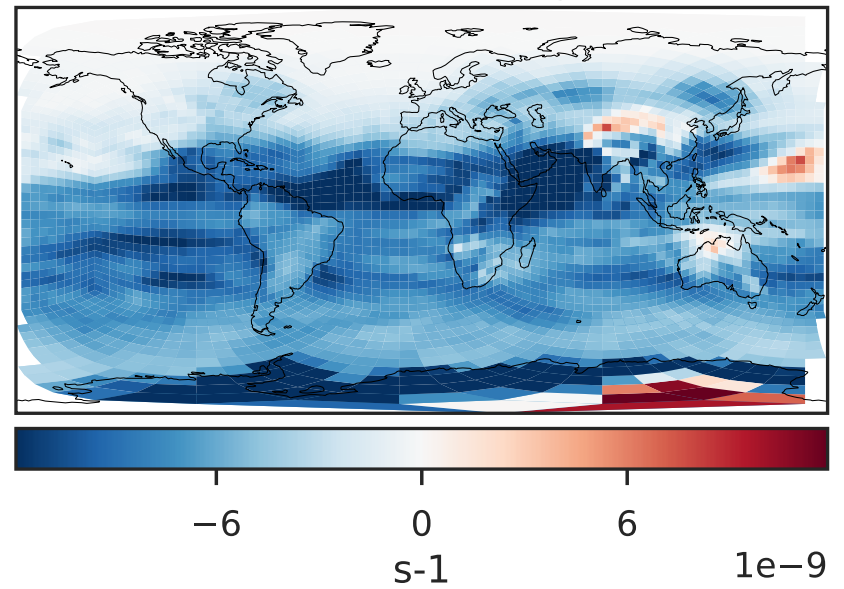
GCHP_14.2.0 (Dev)
c24



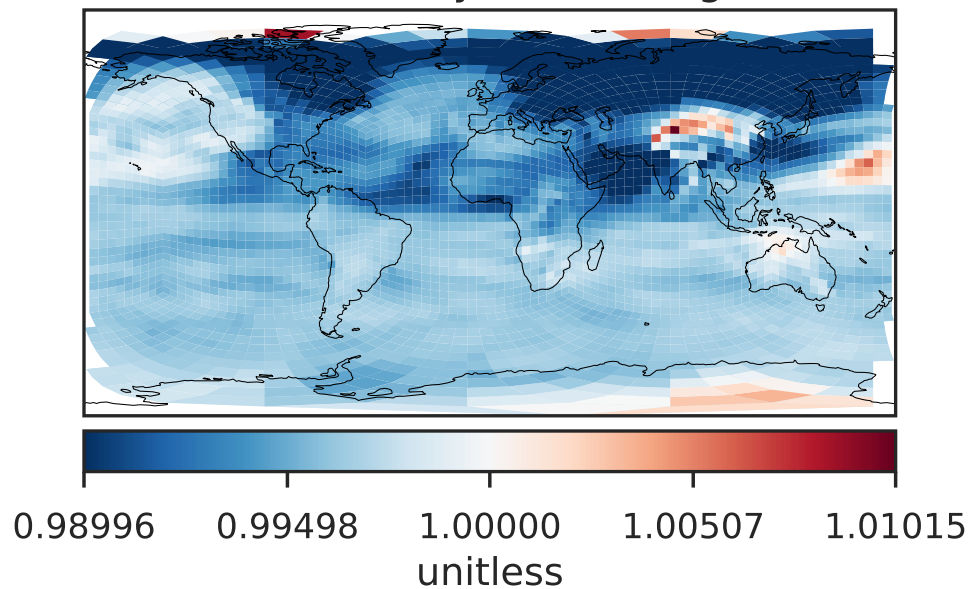
Difference
Dev - Ref, Dynamic Range



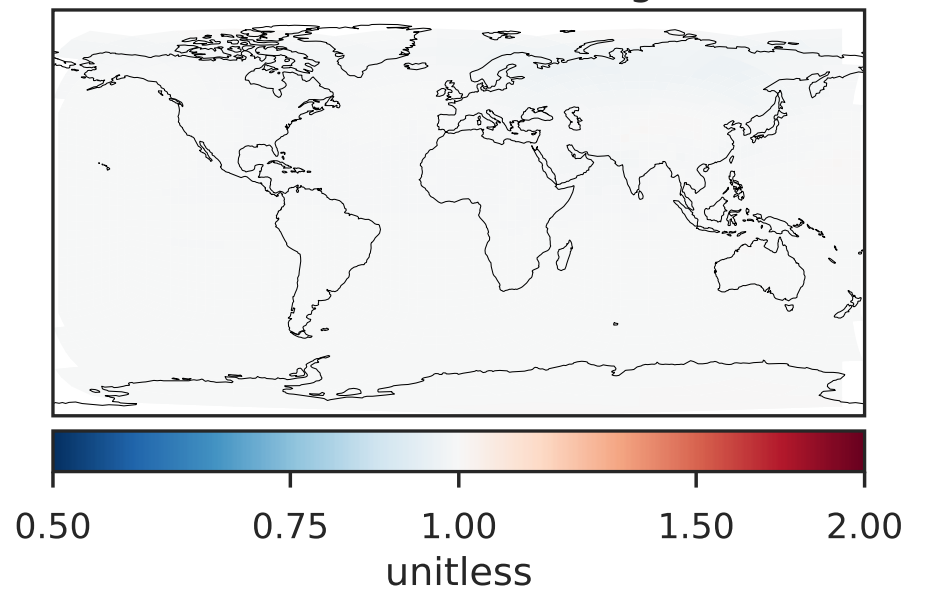
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

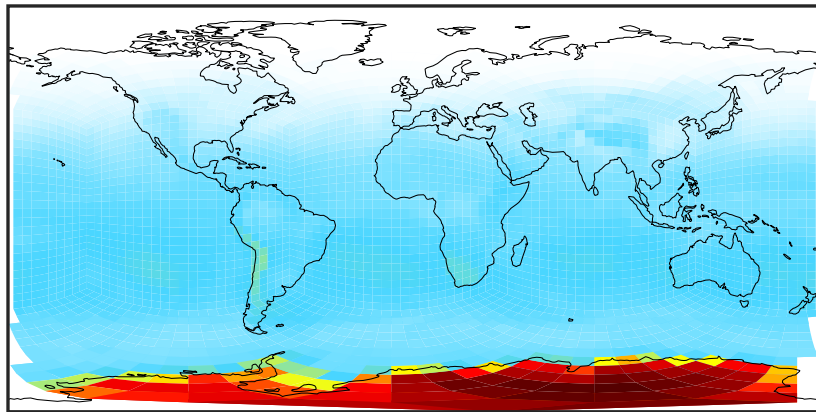


Ratio
Dev/Ref, Fixed Range



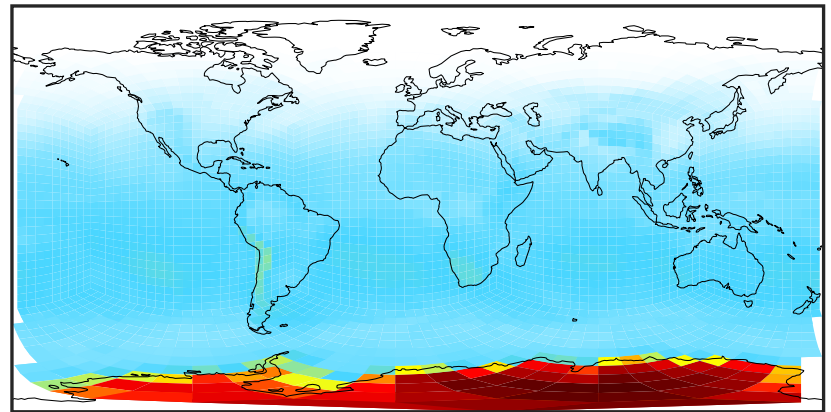
Jval_PYAC (Jan2019)

GCHP_14.0.0 (Ref)
c24



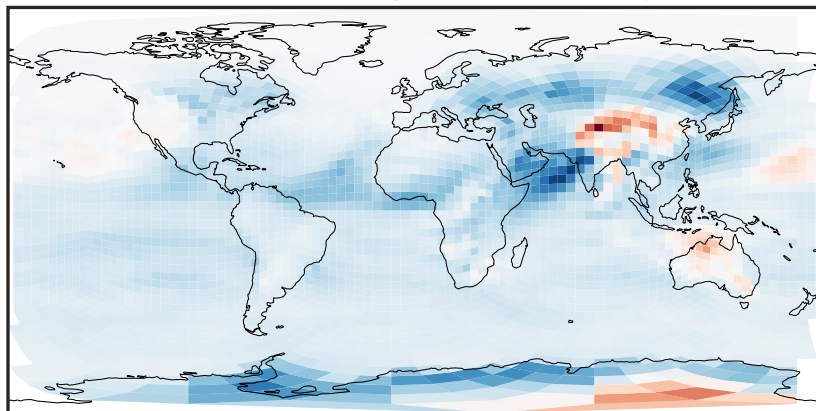
0.00000 0.00008 0.00016 0.00024
s-1

GCHP_14.2.0 (Dev)
c24



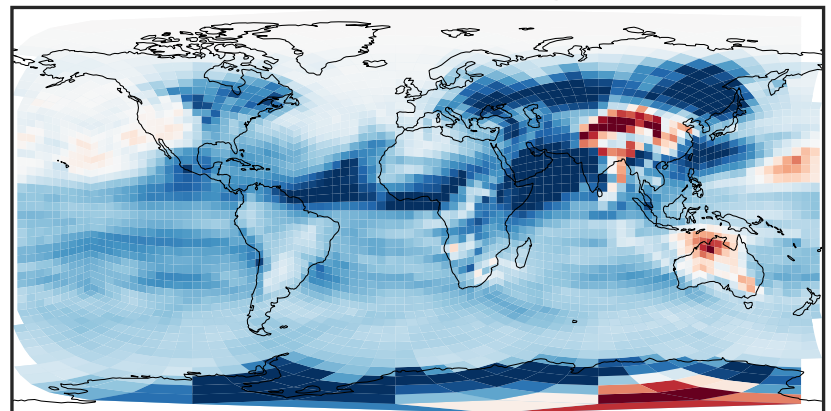
0.00000 0.00008 0.00016 0.00024
s-1

Difference
Dev - Ref, Dynamic Range



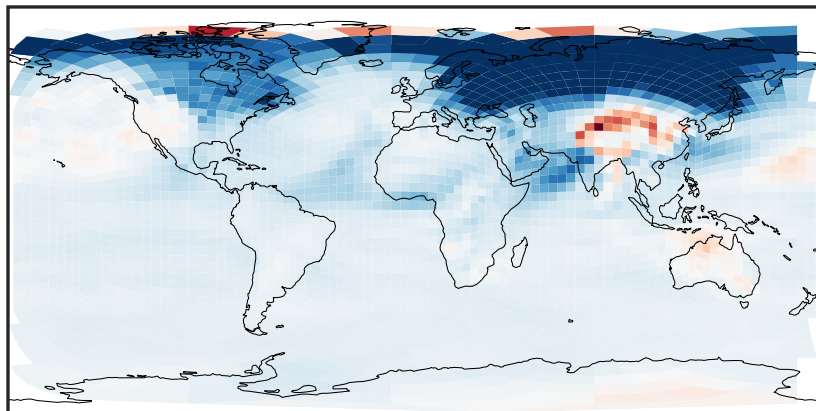
-2.5 0.0 2.5
s-1 1e-7

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



-1 0 1
s-1 1e-7

Ratio
Dev/Ref, Dynamic Range



0.98935 0.99467 1.00000 1.00538 1.01077
unitless

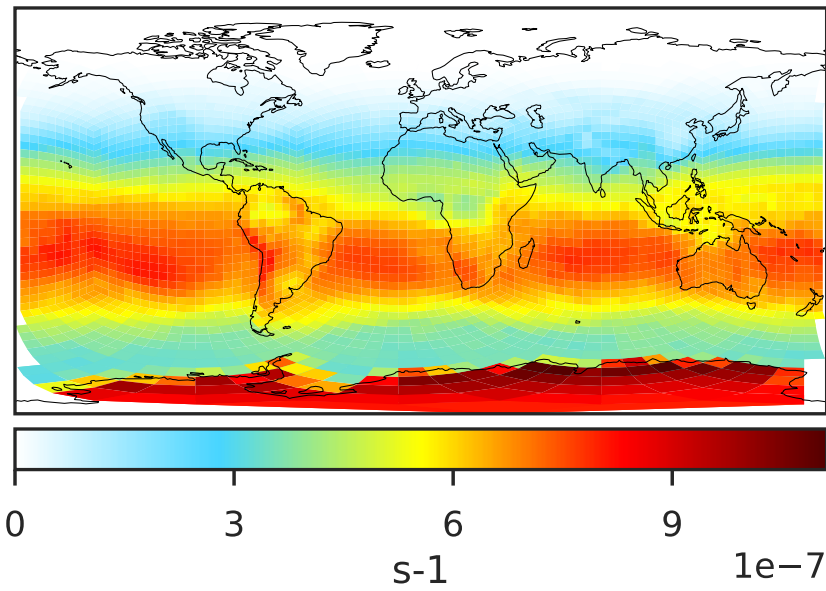
Ratio
Dev/Ref, Fixed Range



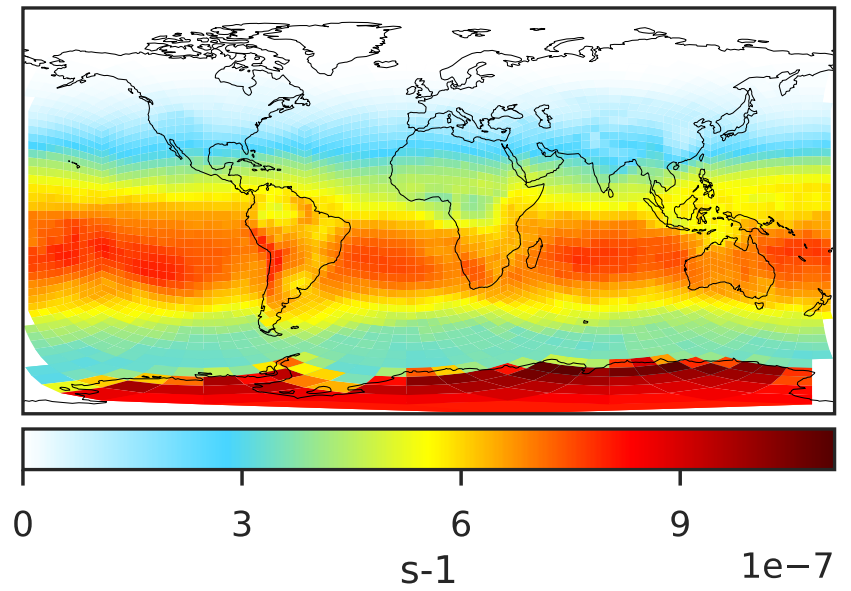
0.50 0.75 1.00 1.50 2.00
unitless

Jval_R4N2 (Jan2019)

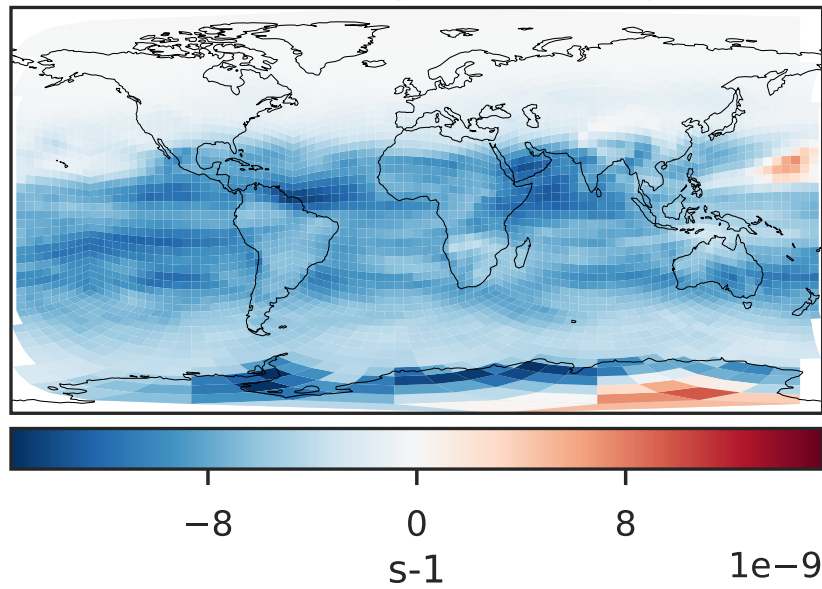
GCHP_14.0.0 (Ref)
c24



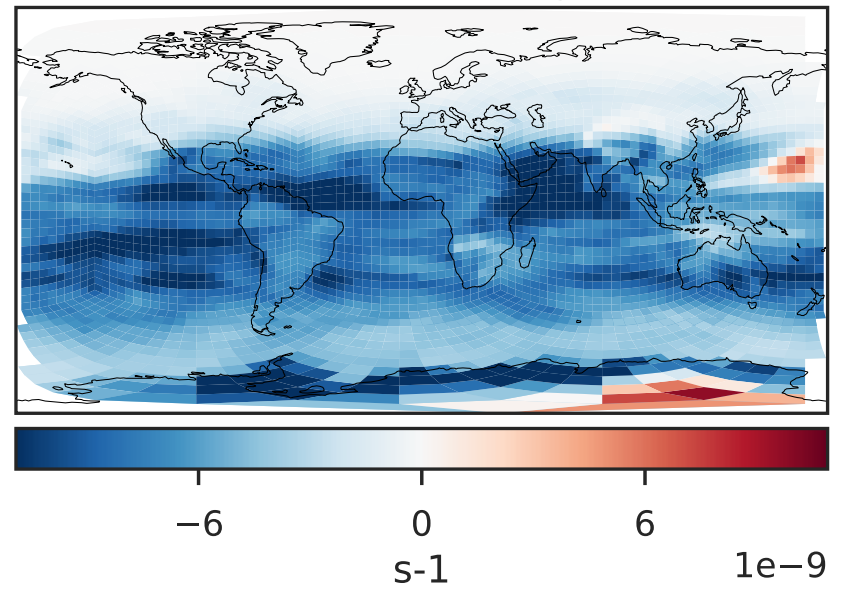
GCHP_14.2.0 (Dev)
c24



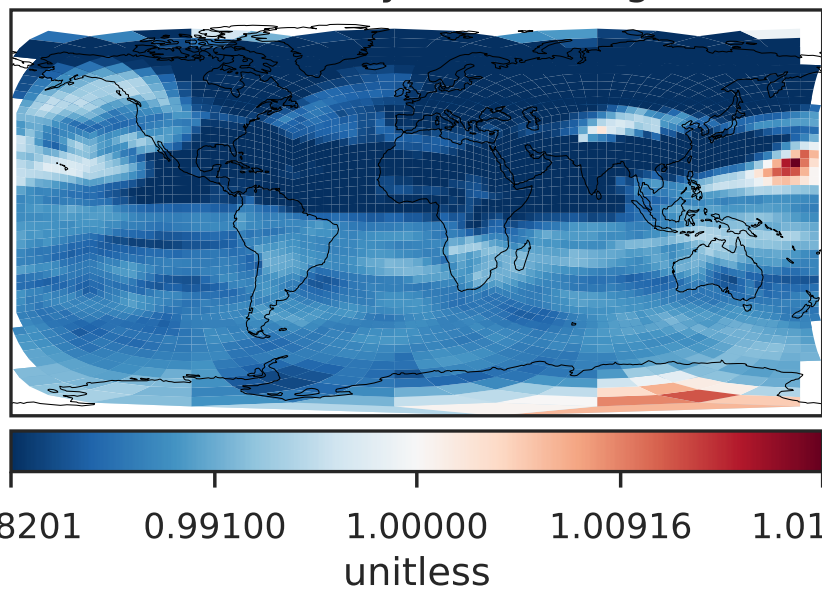
Difference
Dev - Ref, Dynamic Range



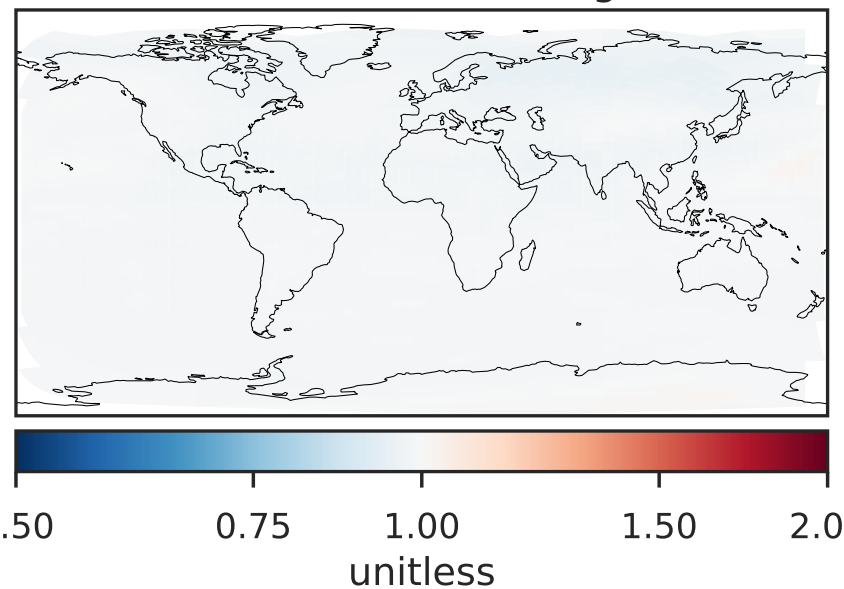
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

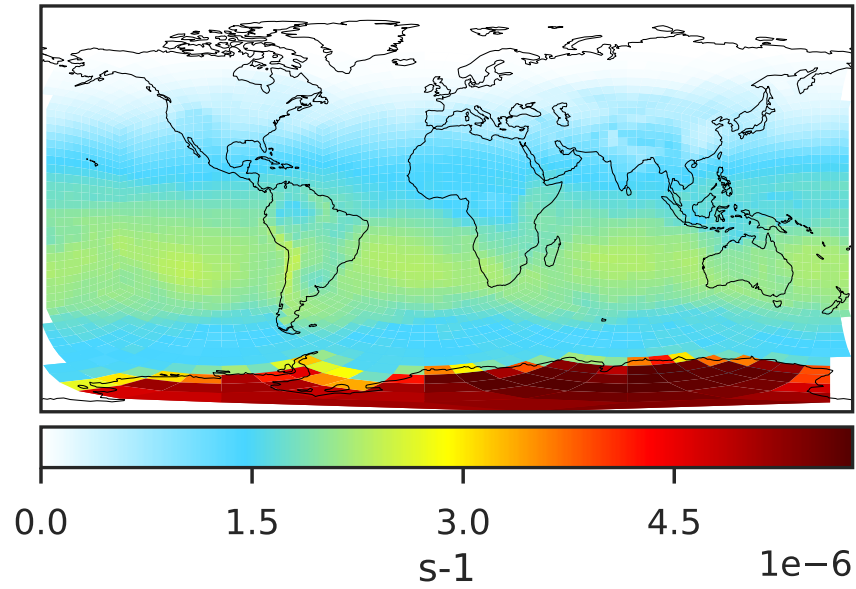


Ratio
Dev/Ref, Fixed Range

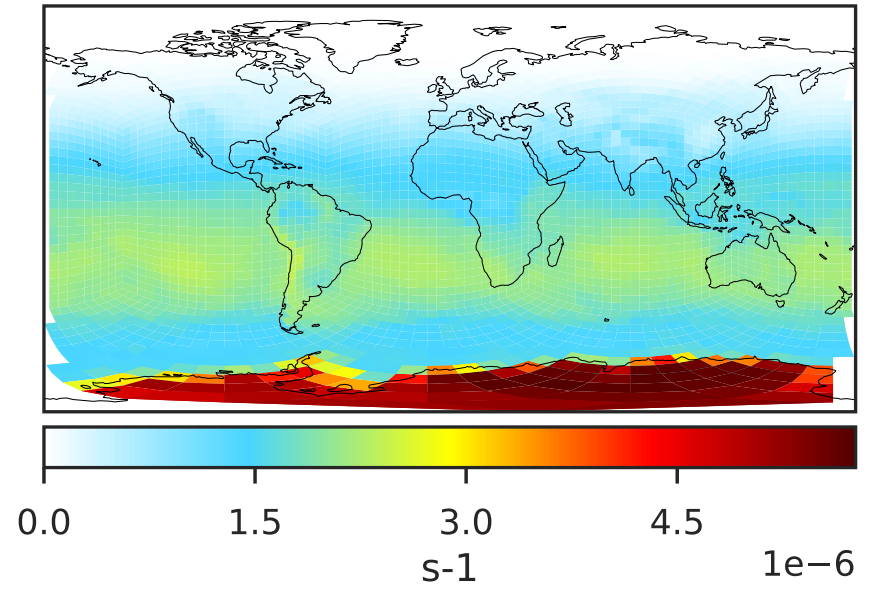


Jval_R4P (Jan2019)

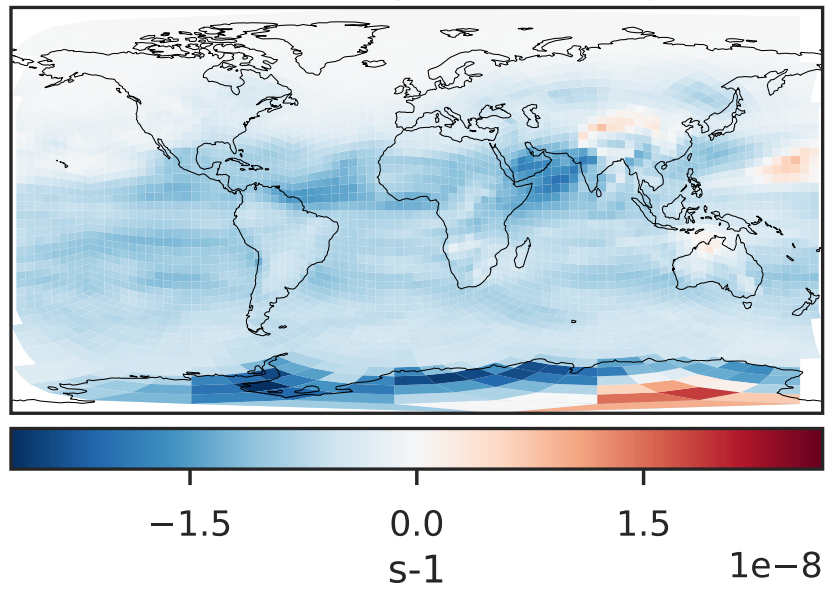
GCHP_14.0.0 (Ref)
c24



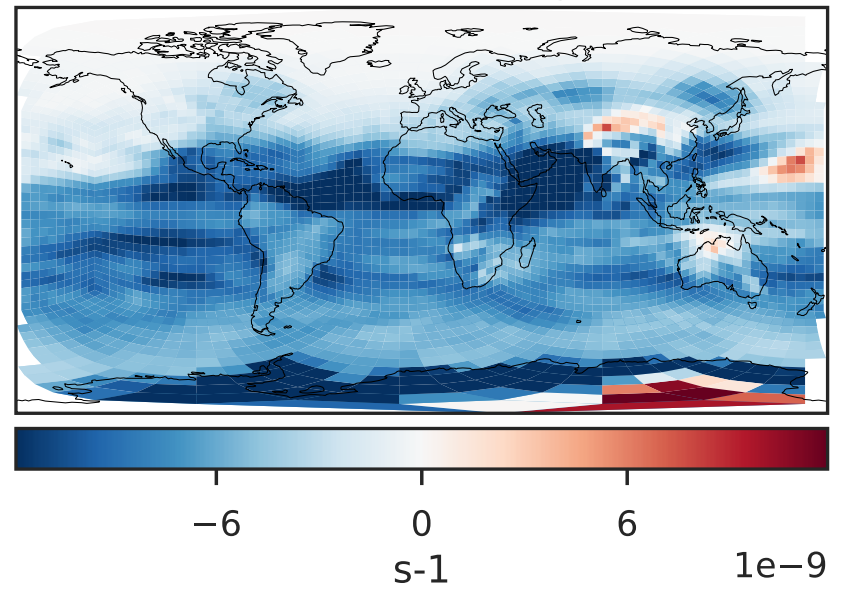
GCHP_14.2.0 (Dev)
c24



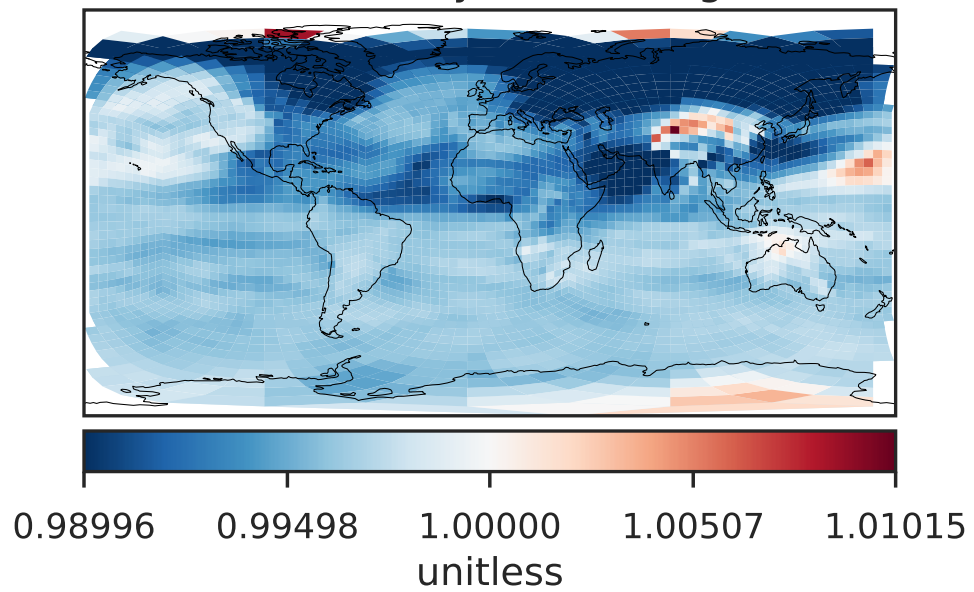
Difference
Dev - Ref, Dynamic Range



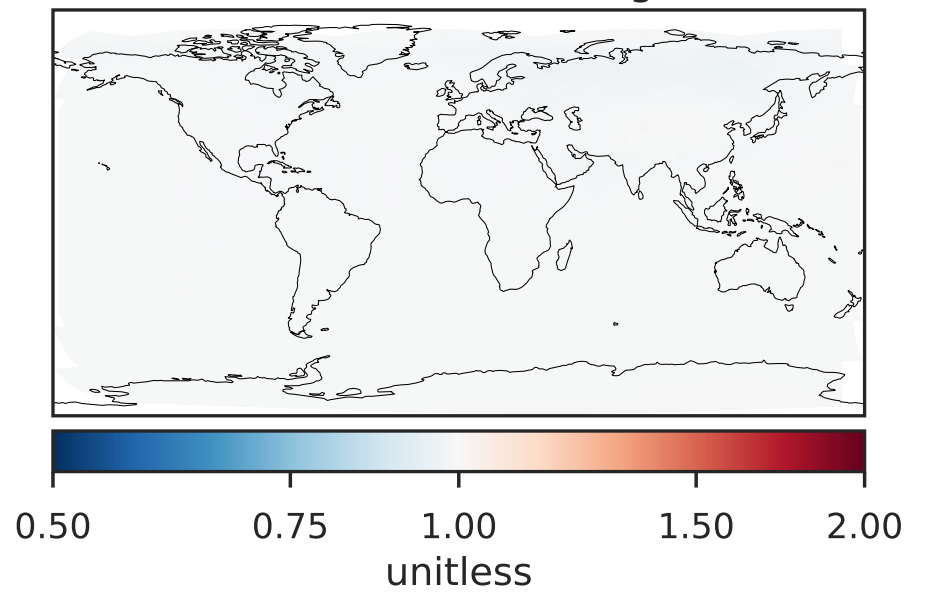
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

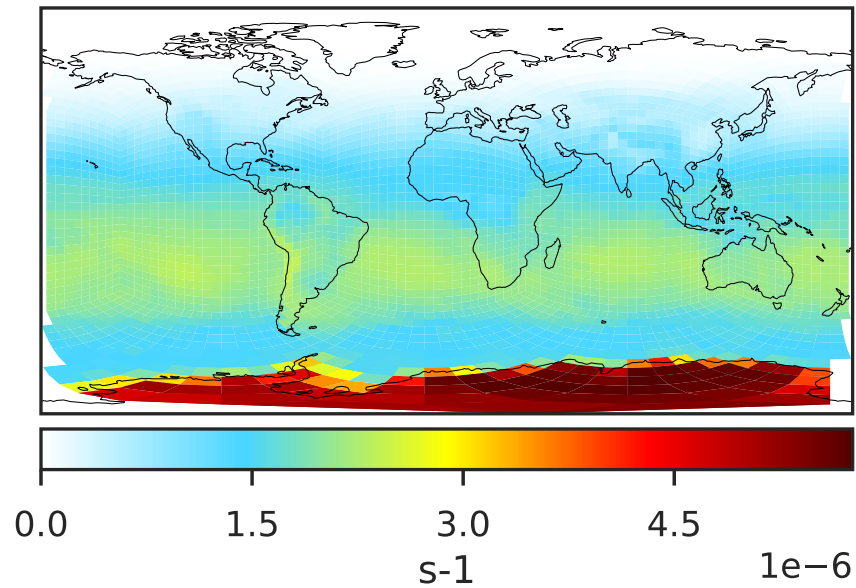


Ratio
Dev/Ref, Fixed Range

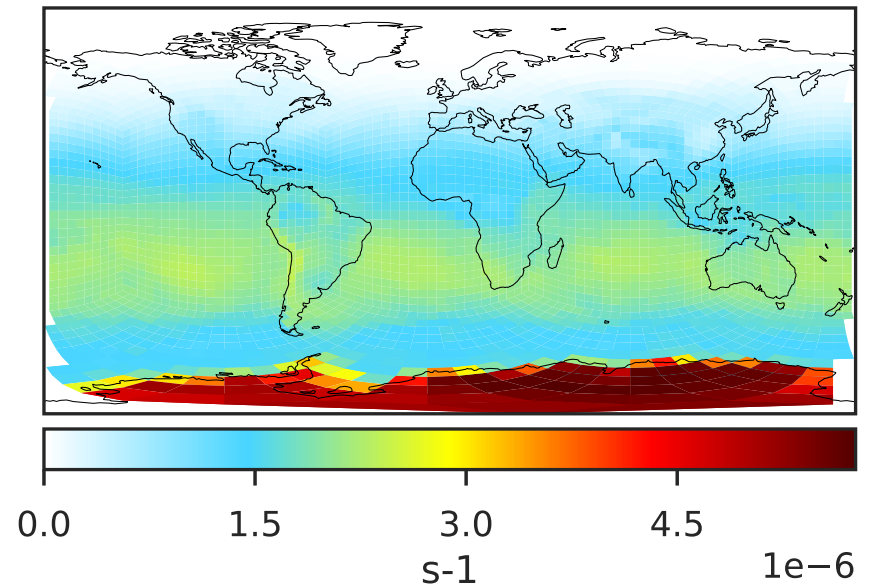


Jval_RA3P (Jan2019)

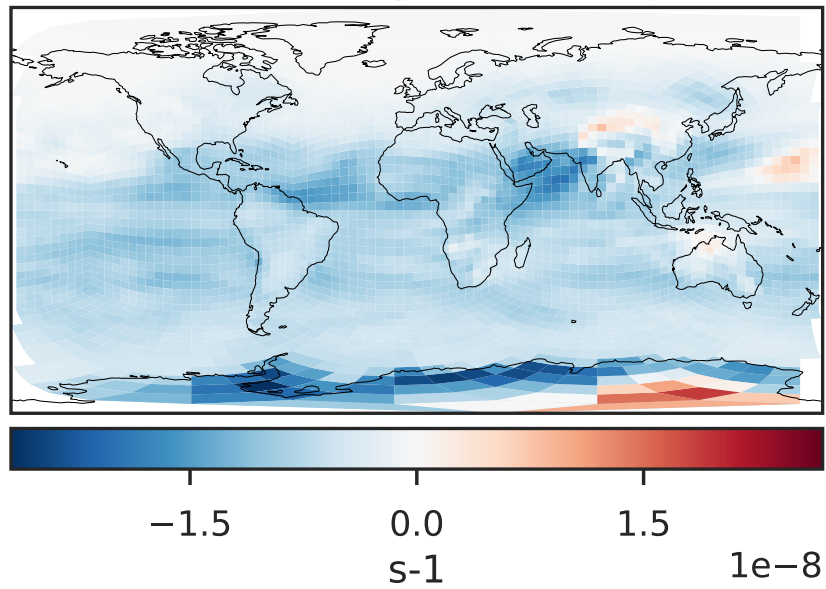
GCHP_14.0.0 (Ref)
c24



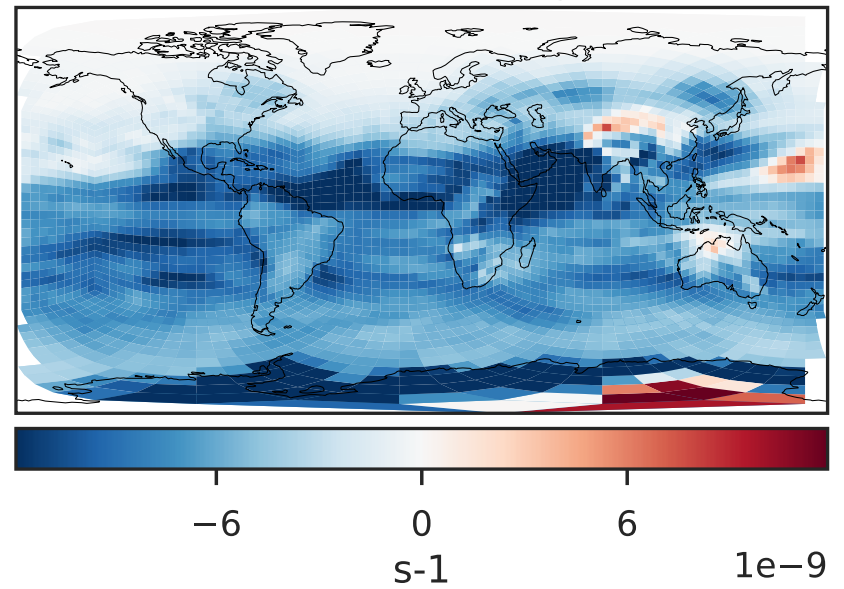
GCHP_14.2.0 (Dev)
c24



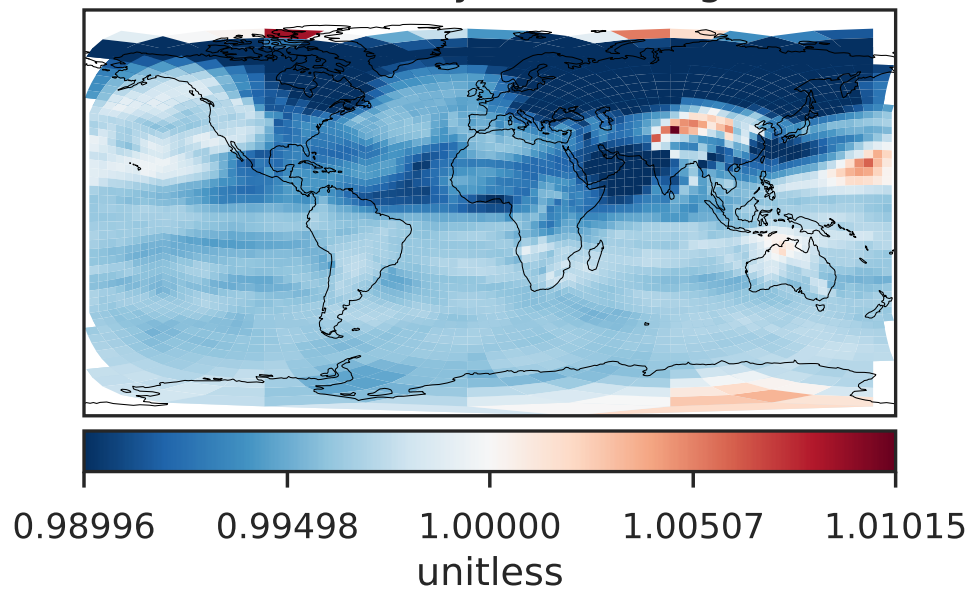
Difference
Dev - Ref, Dynamic Range



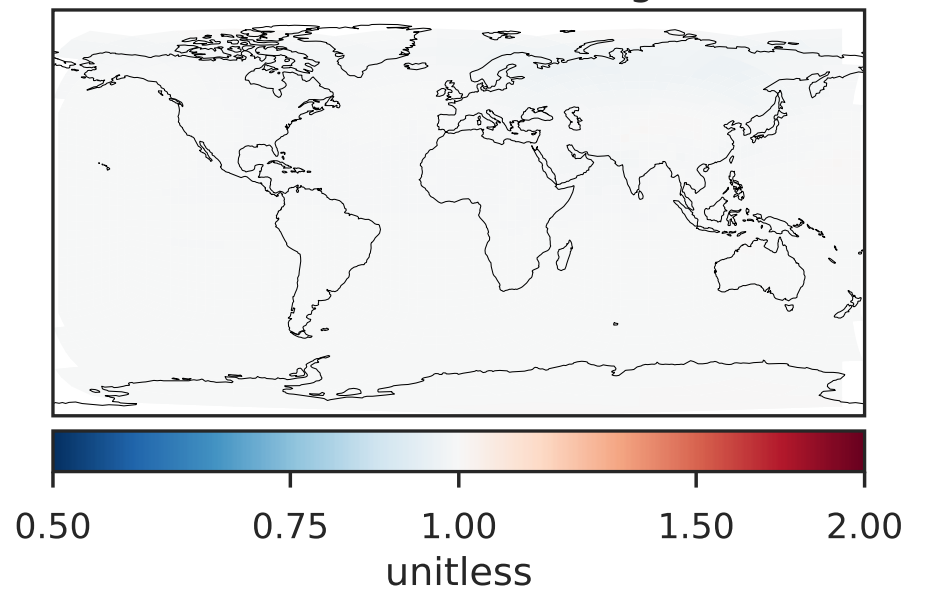
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

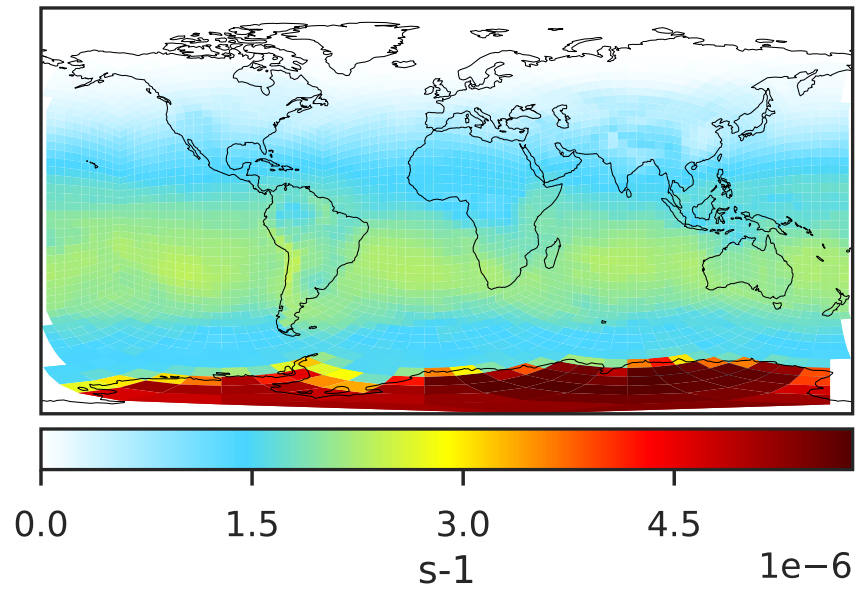


Ratio
Dev/Ref, Fixed Range

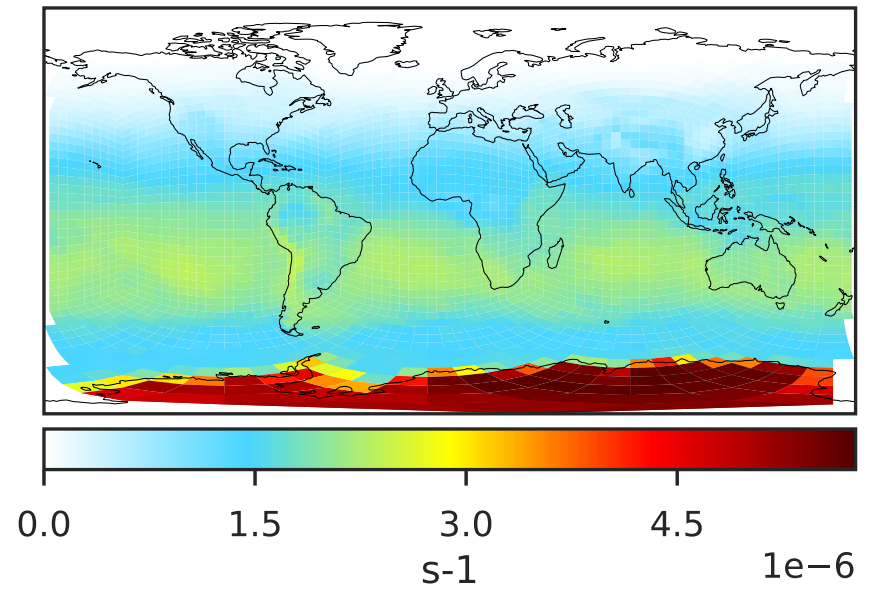


Jval_RB3P (Jan2019)

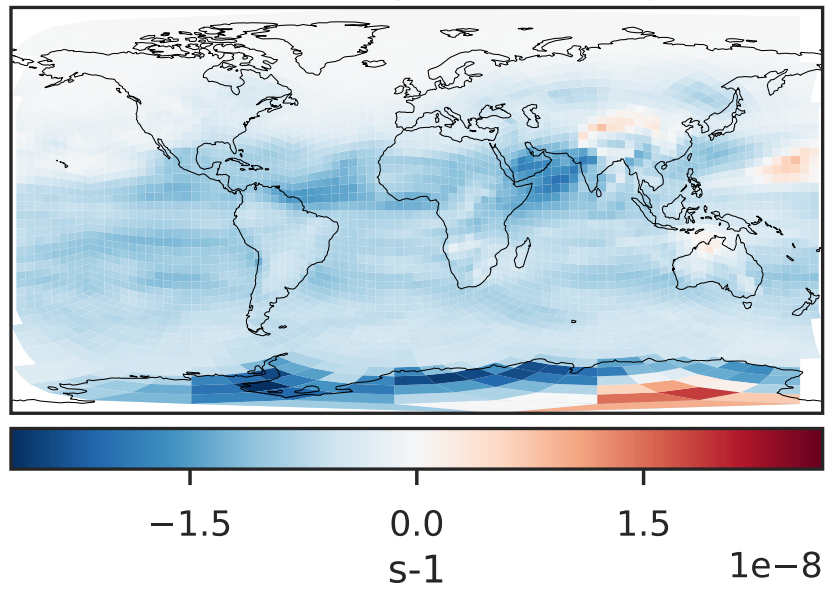
GCHP_14.0.0 (Ref)
c24



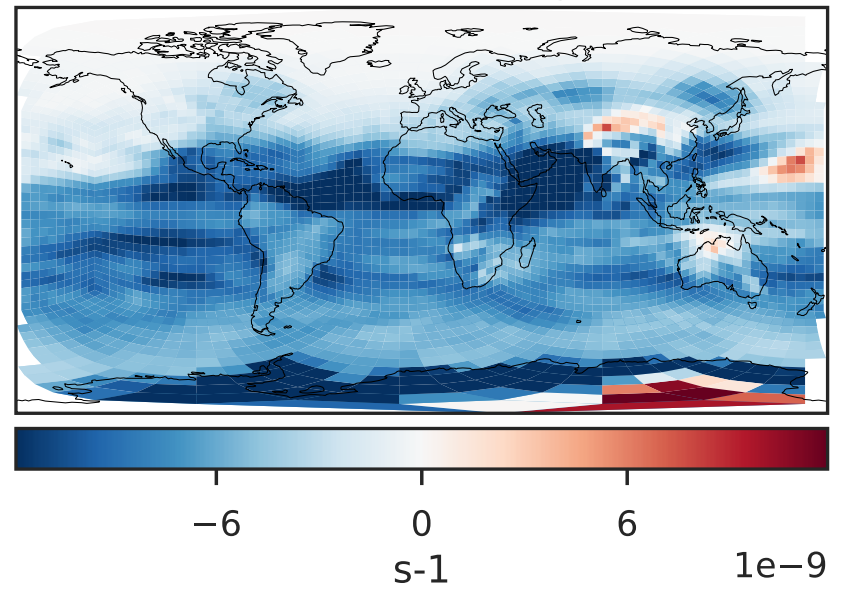
GCHP_14.2.0 (Dev)
c24



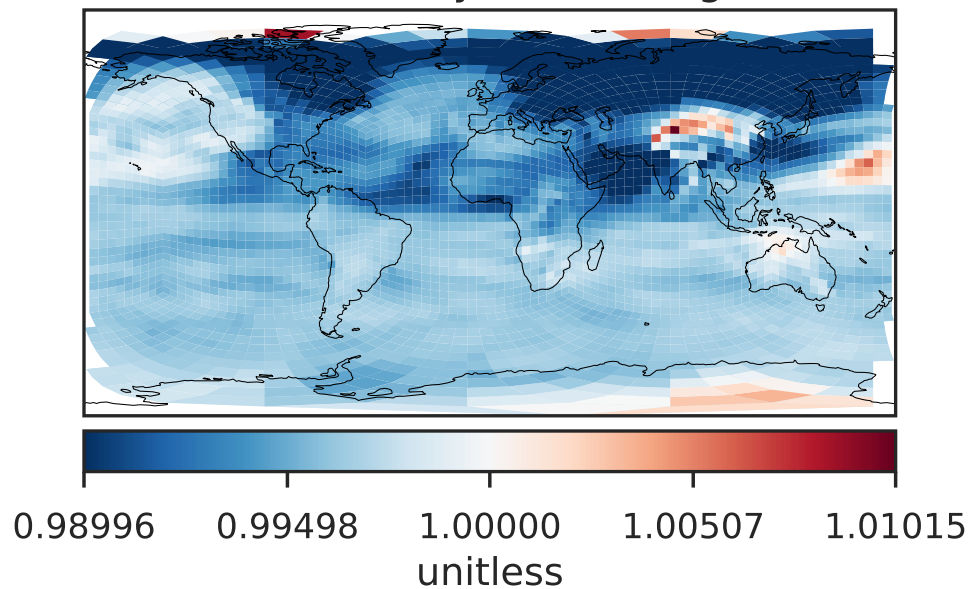
Difference
Dev - Ref, Dynamic Range



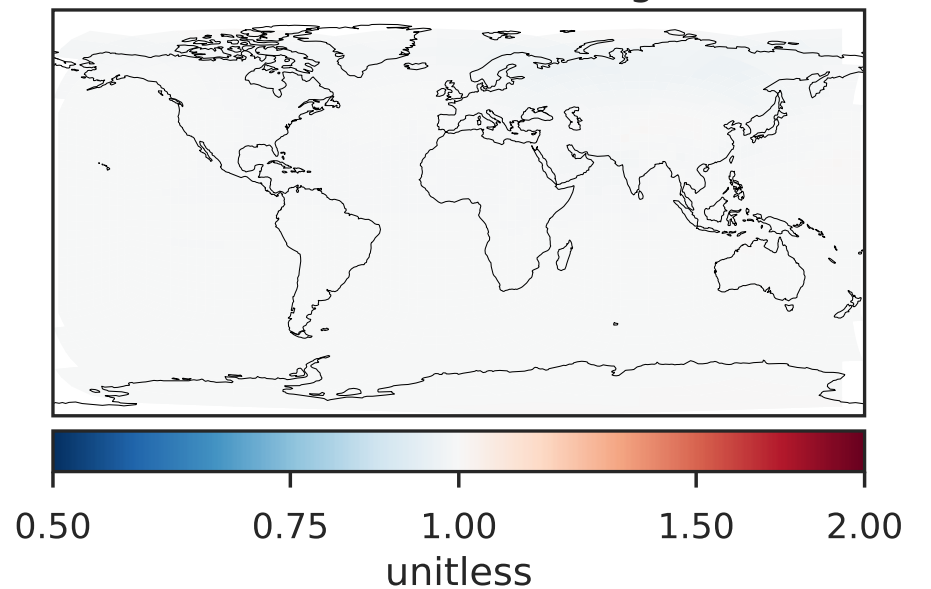
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

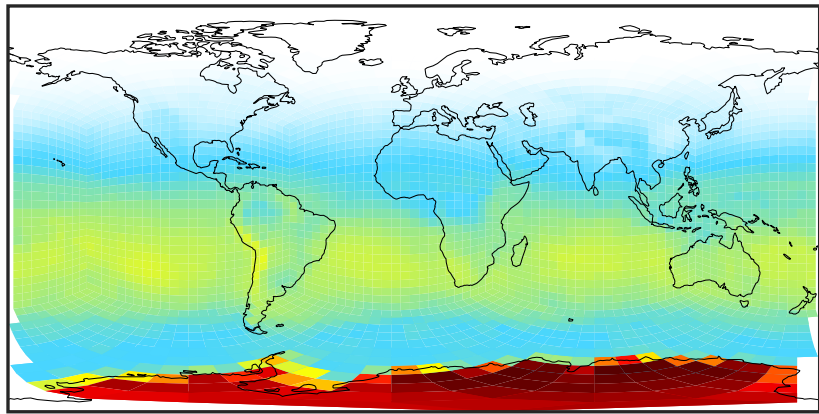


Ratio
Dev/Ref, Fixed Range



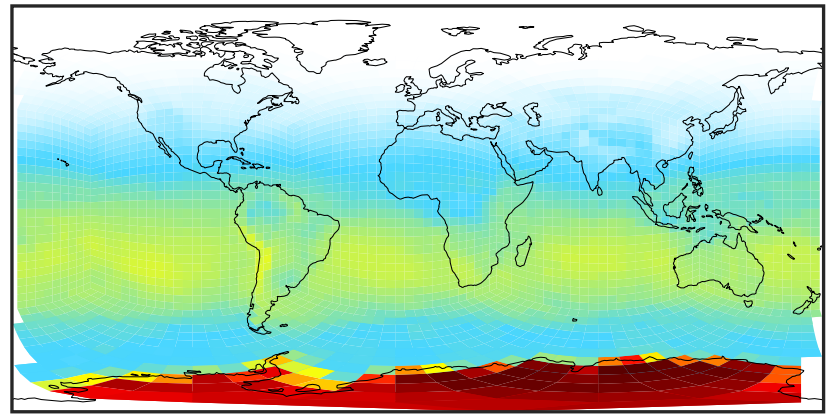
Jval_RCHO (Jan2019)

GCHP_14.0.0 (Ref)
c24



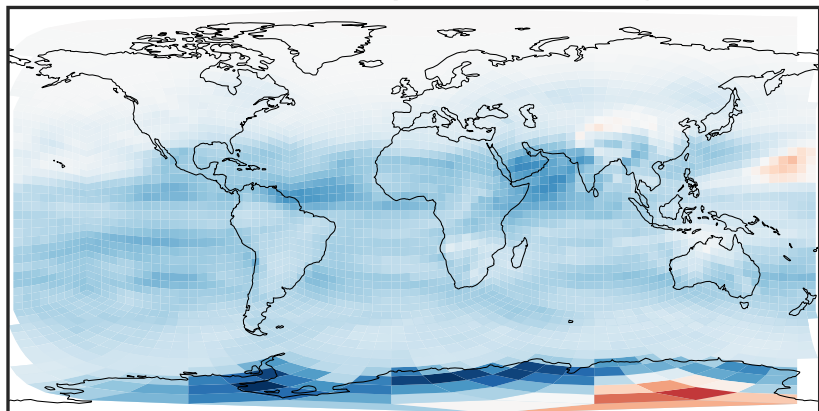
0.0 1.5 3.0
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



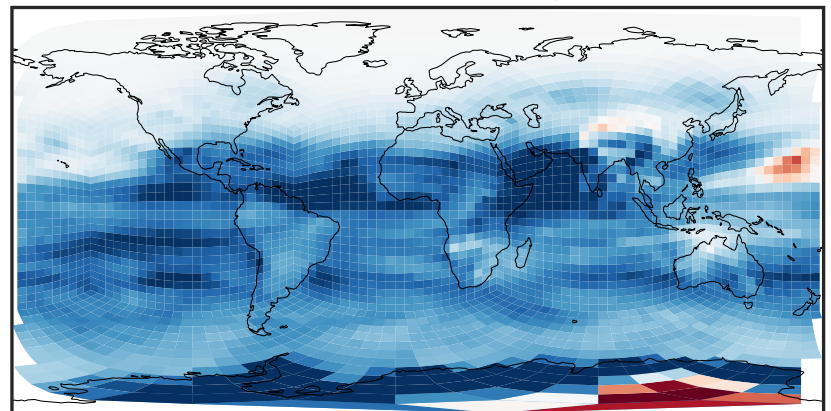
0.0 1.5 3.0
s-1 $1e-5$

Difference
Dev - Ref, Dynamic Range



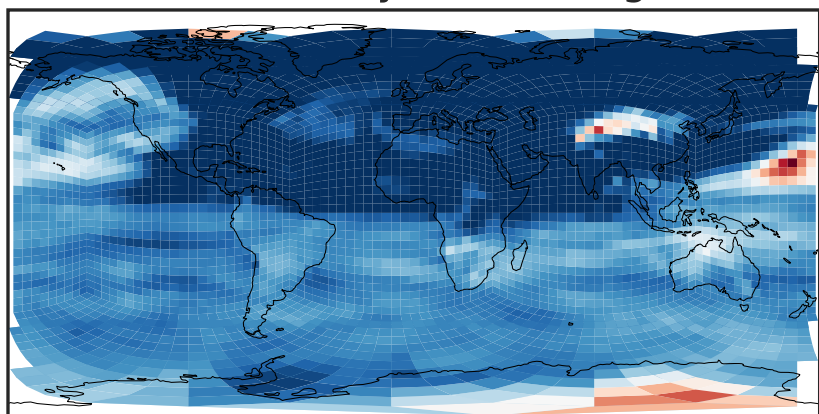
-2 0 2
s-1 $1e-7$

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



-8 0 8
s-1 $1e-8$

Ratio
Dev/Ref, Dynamic Range



0.98994 0.99497 1.00000 1.00508 1.01017
unitless

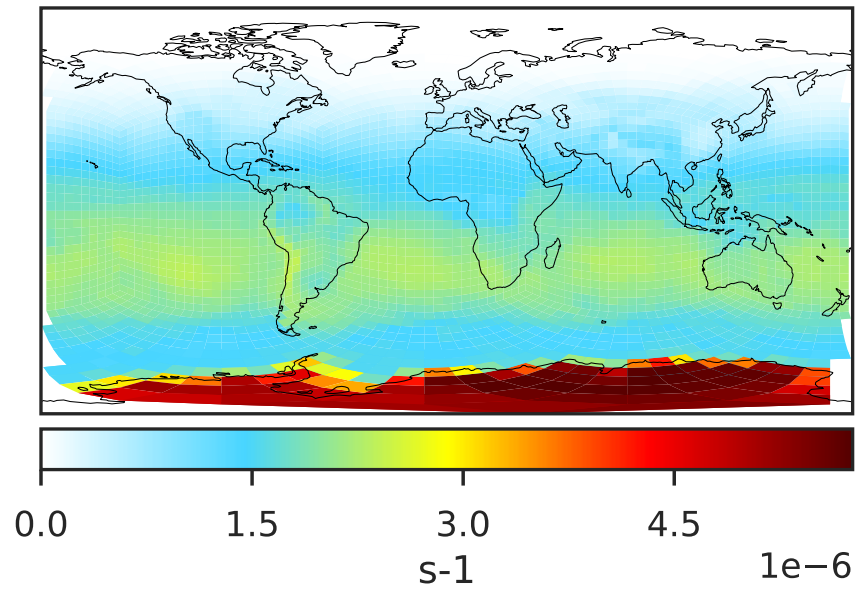
Ratio
Dev/Ref, Fixed Range



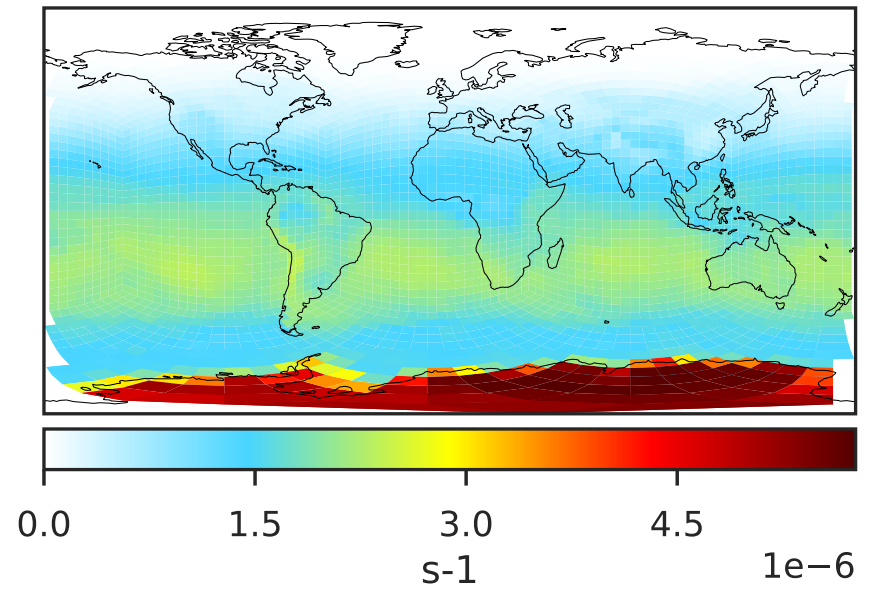
0.50 0.75 1.00 1.50 2.00
unitless

Jval_RIPA (Jan2019)

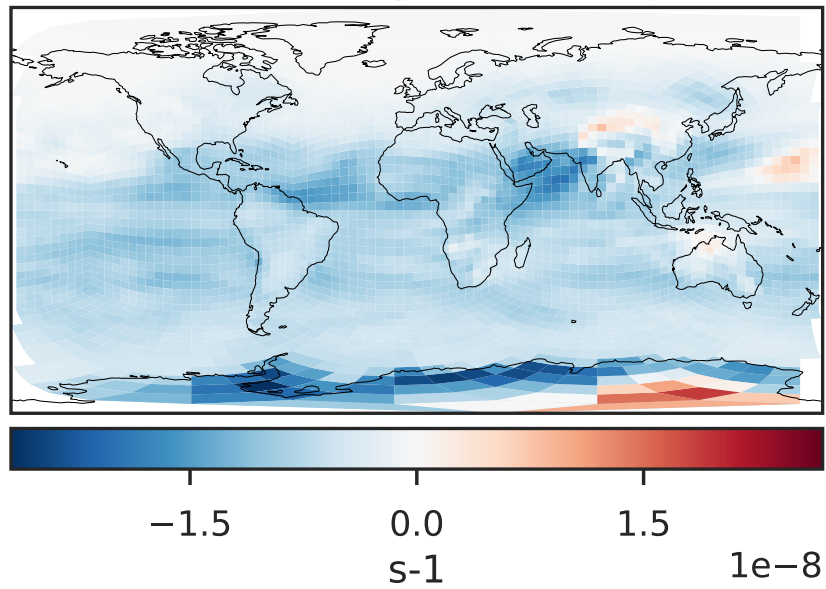
GCHP_14.0.0 (Ref)
c24



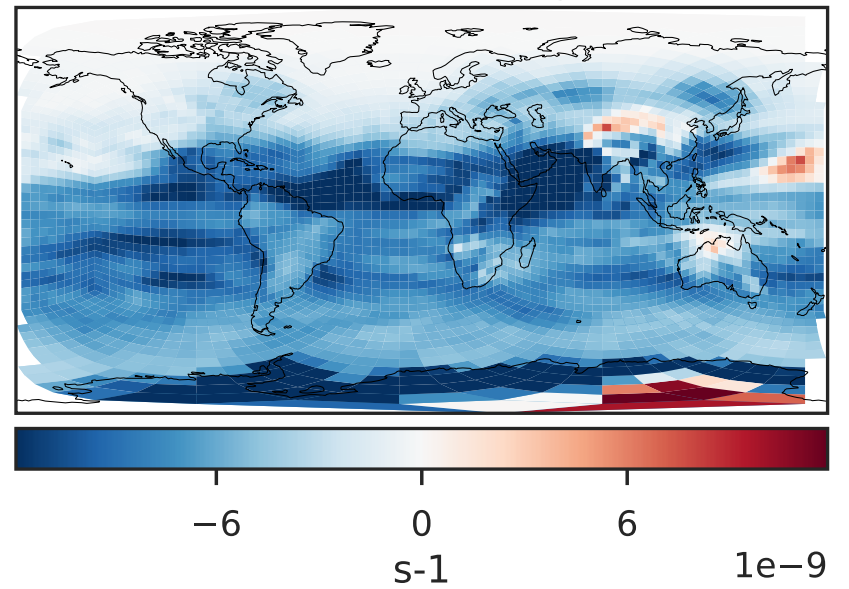
GCHP_14.2.0 (Dev)
c24



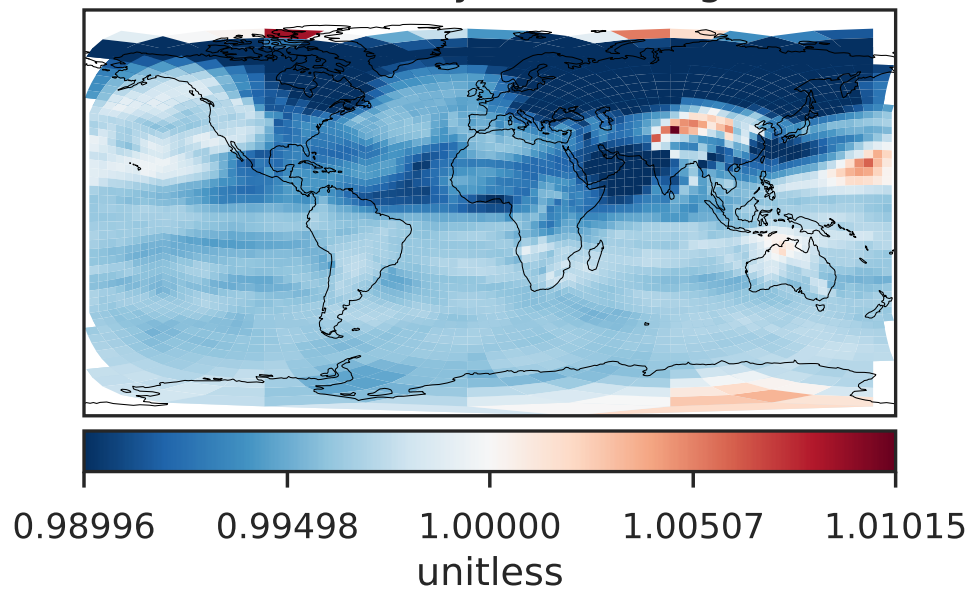
Difference
Dev - Ref, Dynamic Range



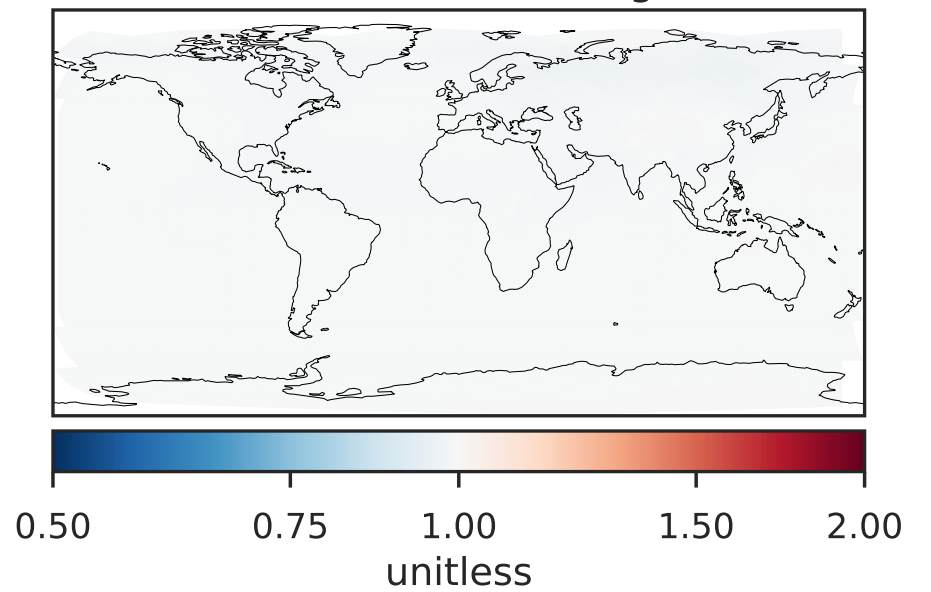
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

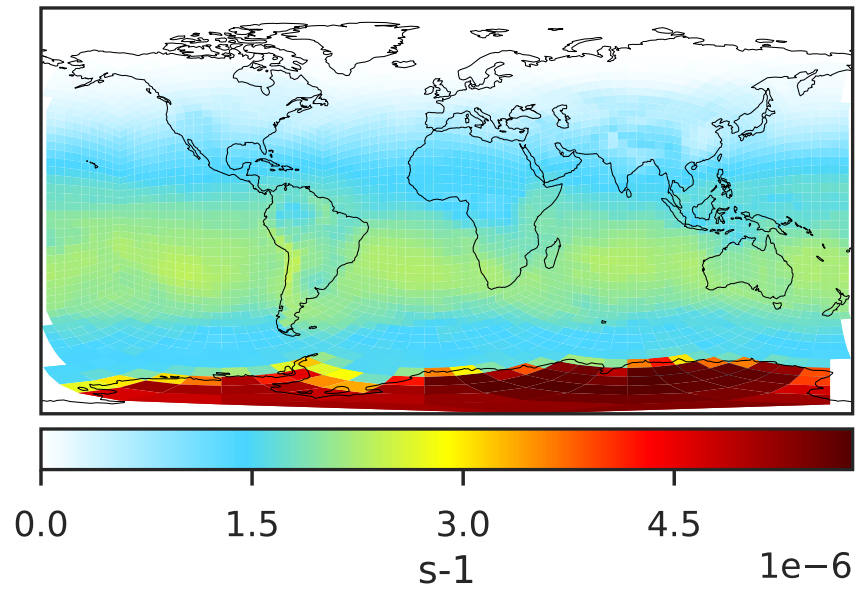


Ratio
Dev/Ref, Fixed Range

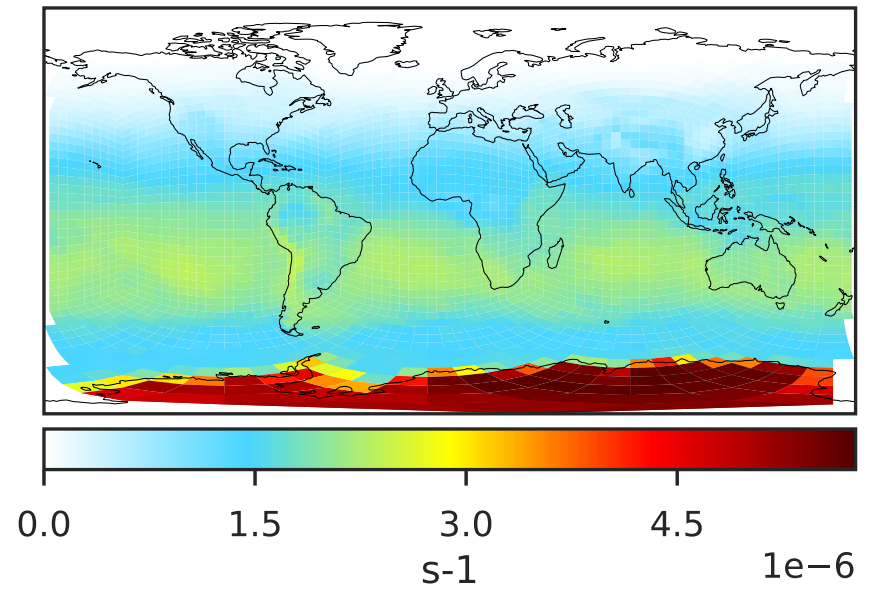


Jval_RIPB (Jan2019)

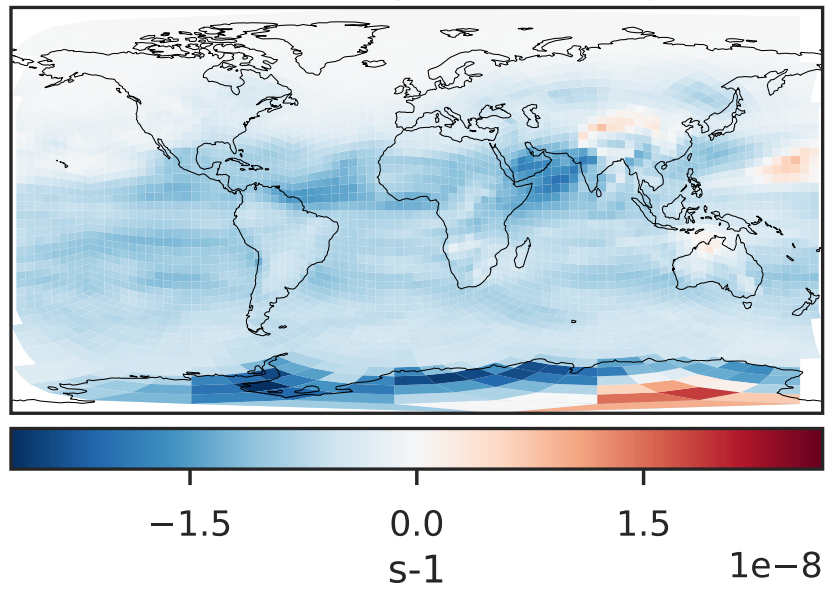
GCHP_14.0.0 (Ref)
c24



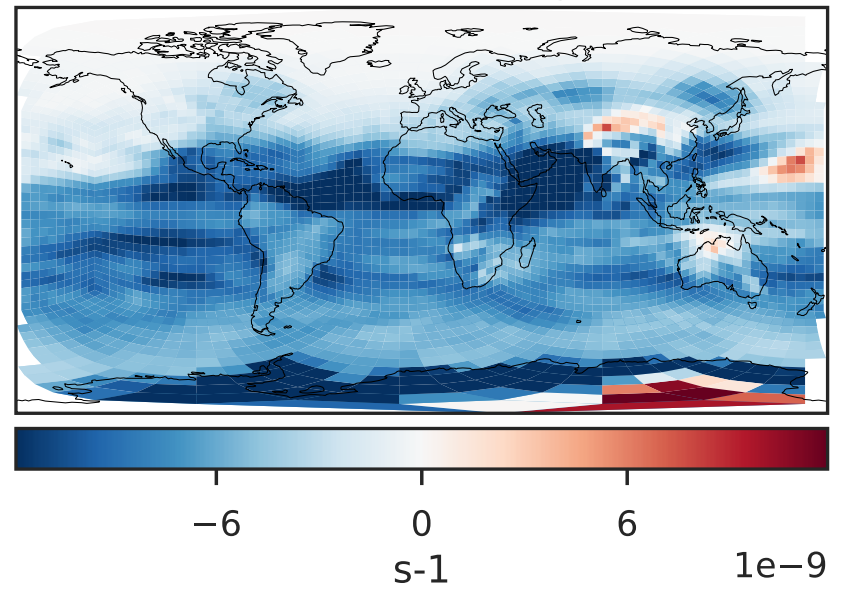
GCHP_14.2.0 (Dev)
c24



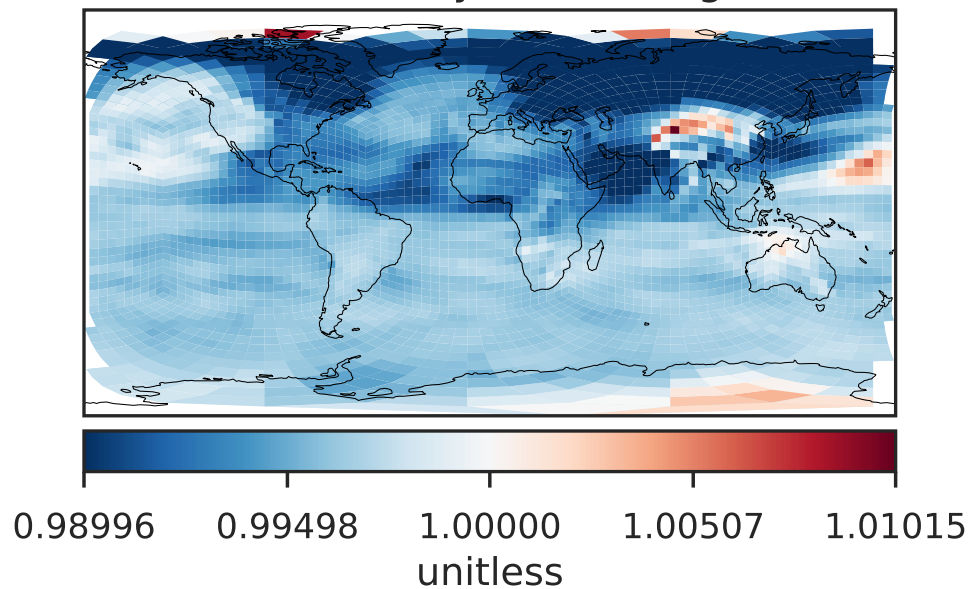
Difference
Dev - Ref, Dynamic Range



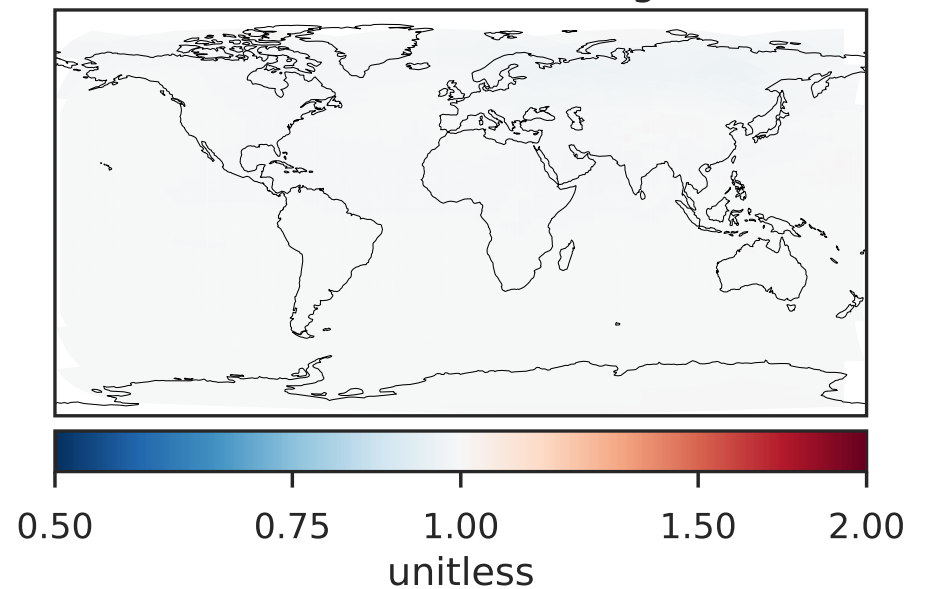
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

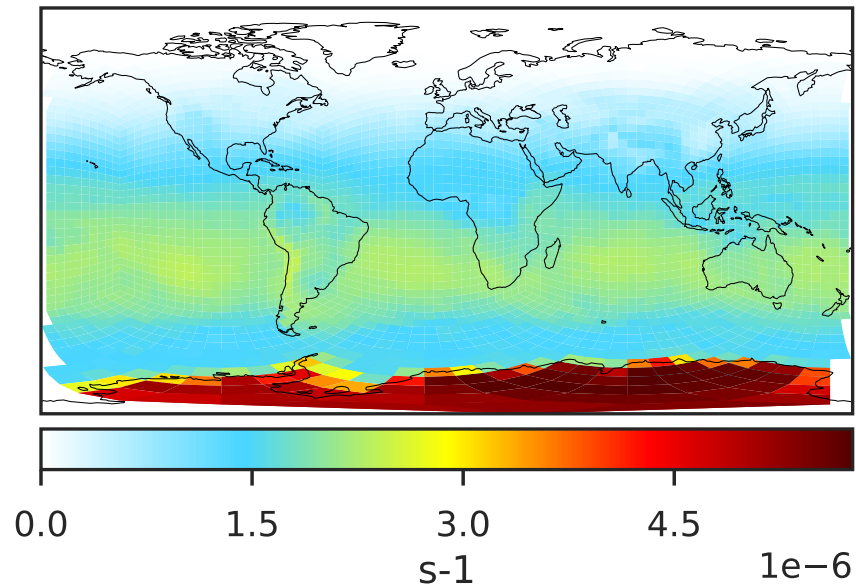


Ratio
Dev/Ref, Fixed Range

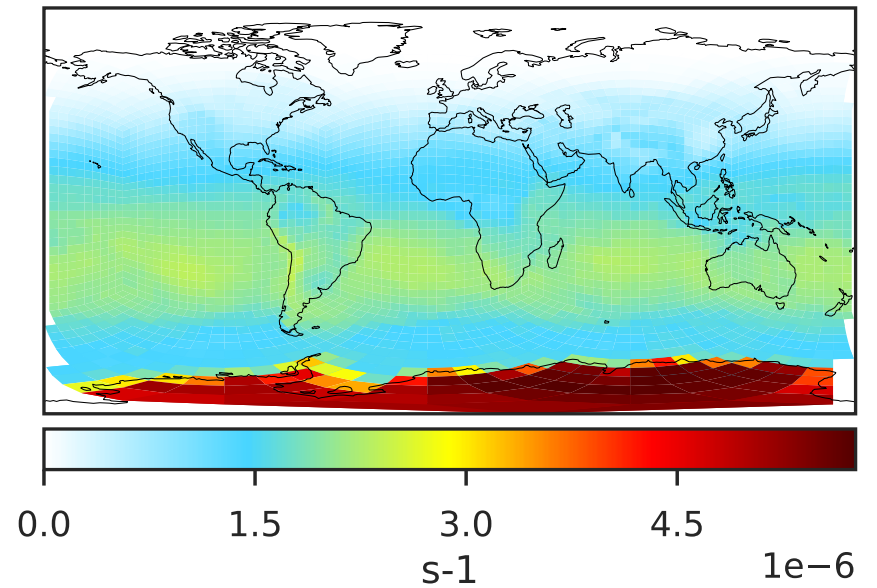


Jval_RIPC (Jan2019)

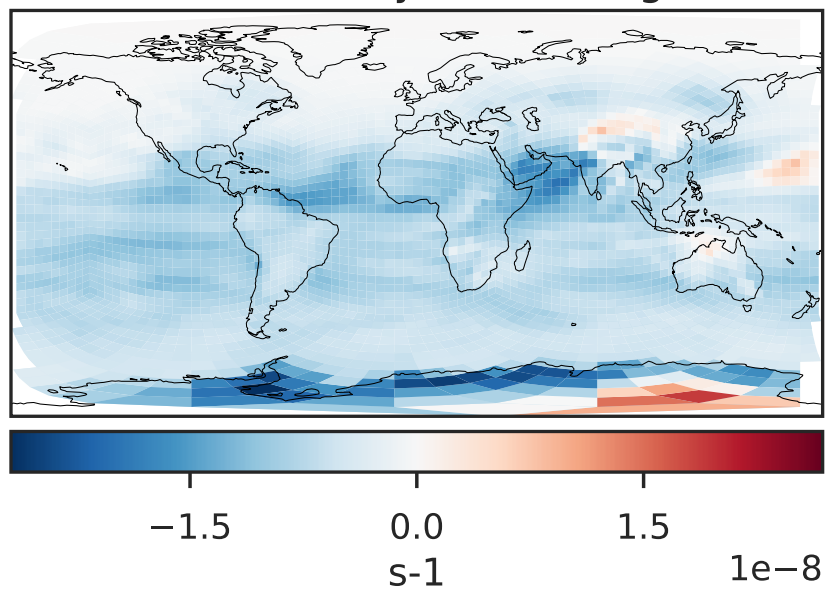
GCHP_14.0.0 (Ref)
c24



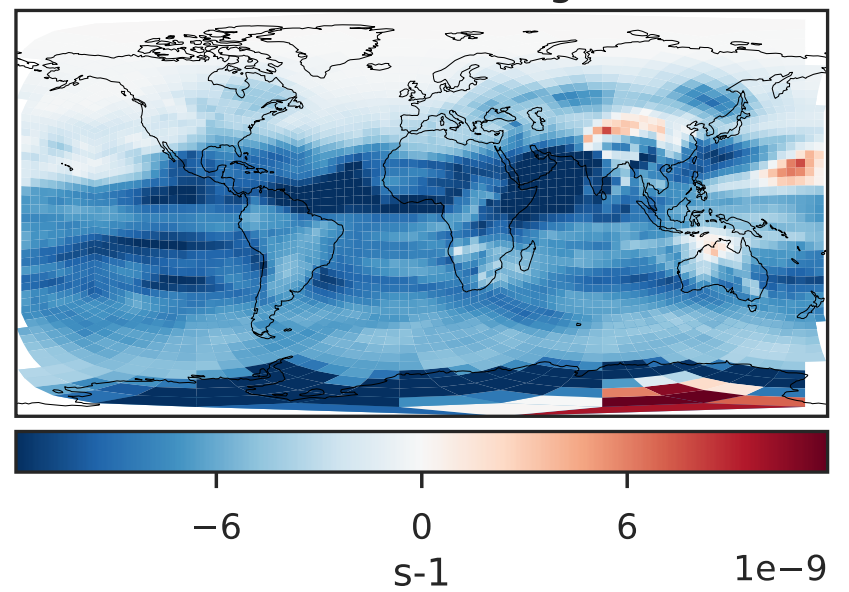
GCHP_14.2.0 (Dev)
c24



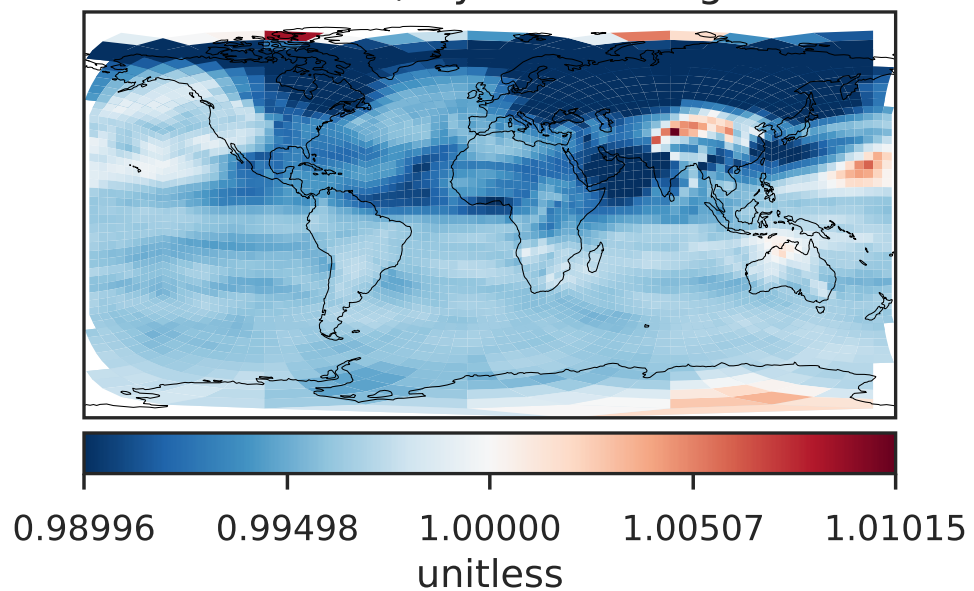
Difference
Dev - Ref, Dynamic Range



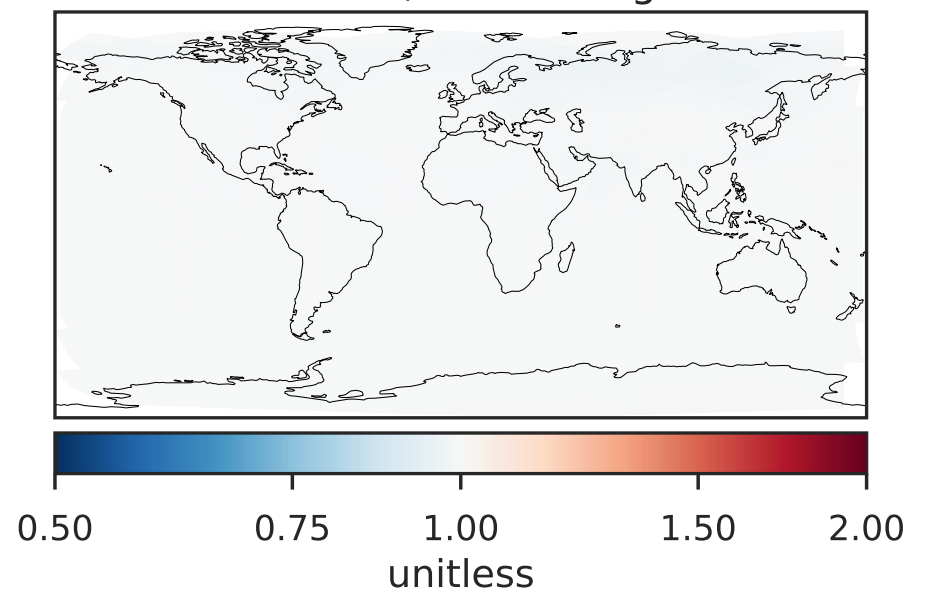
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

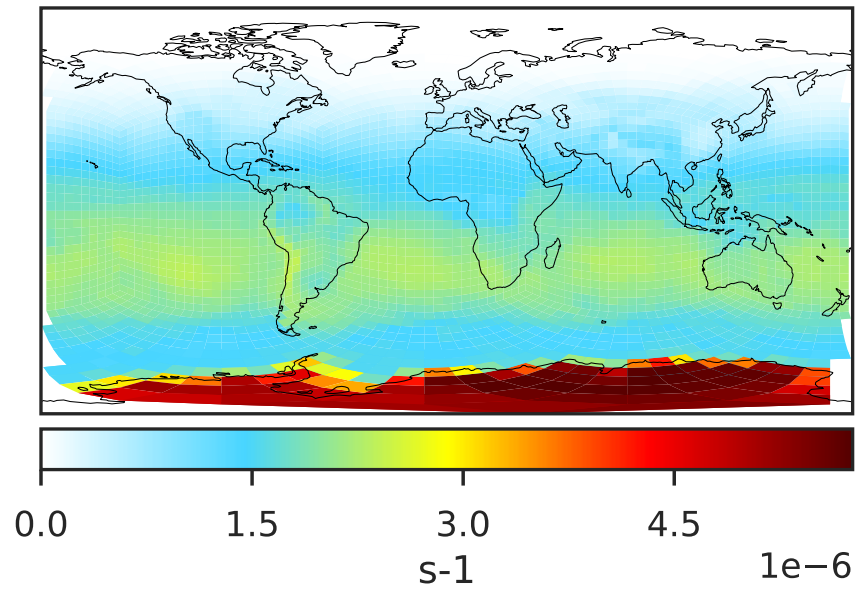


Ratio
Dev/Ref, Fixed Range

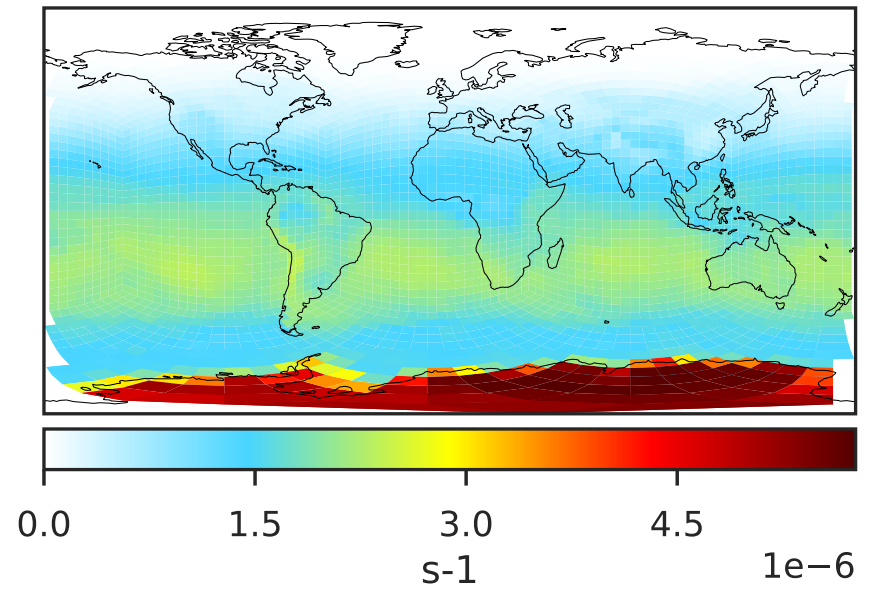


Jval_RIPD (Jan2019)

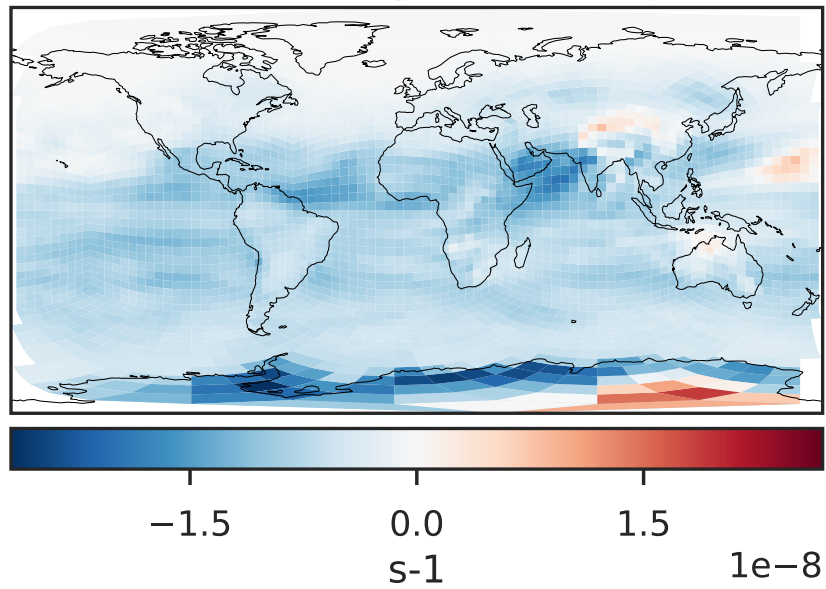
GCHP_14.0.0 (Ref)
c24



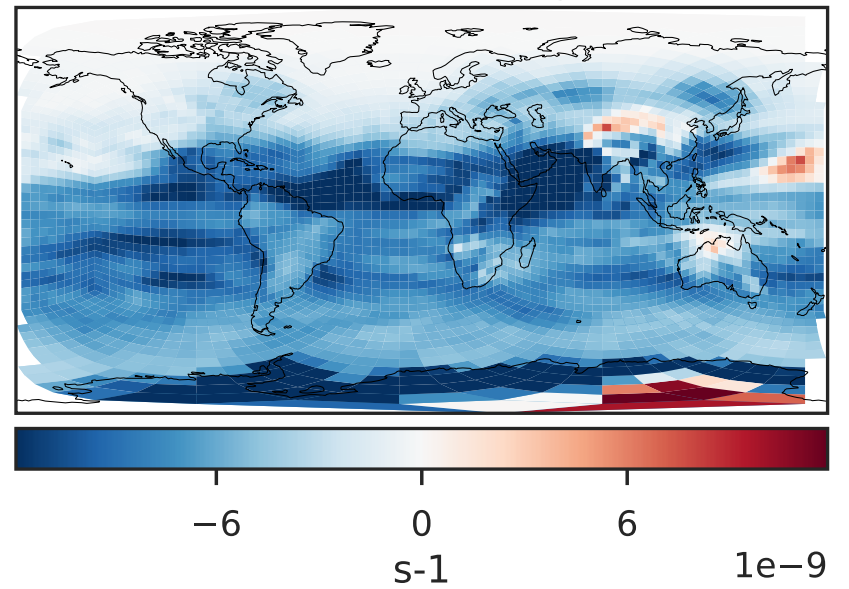
GCHP_14.2.0 (Dev)
c24



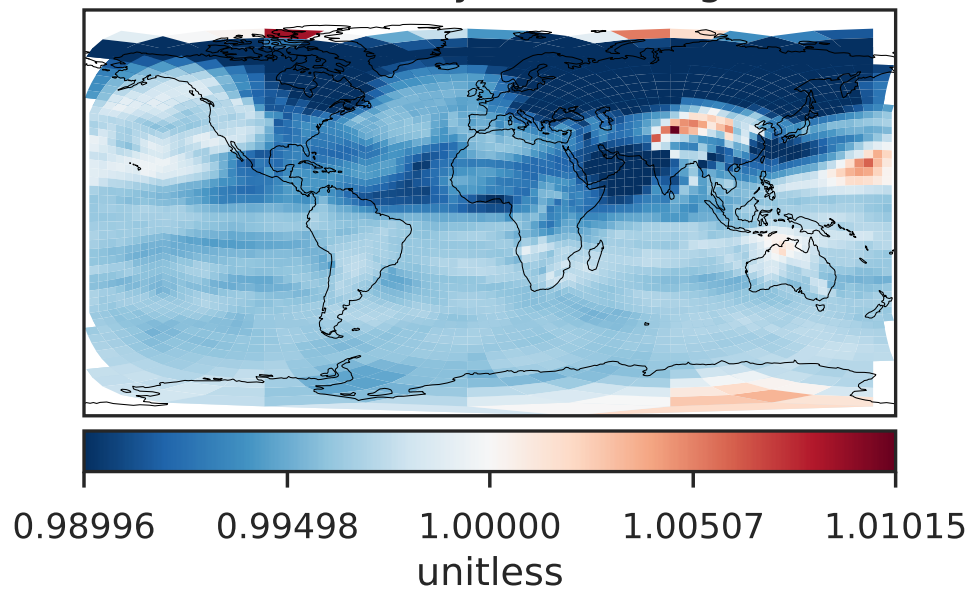
Difference
Dev - Ref, Dynamic Range



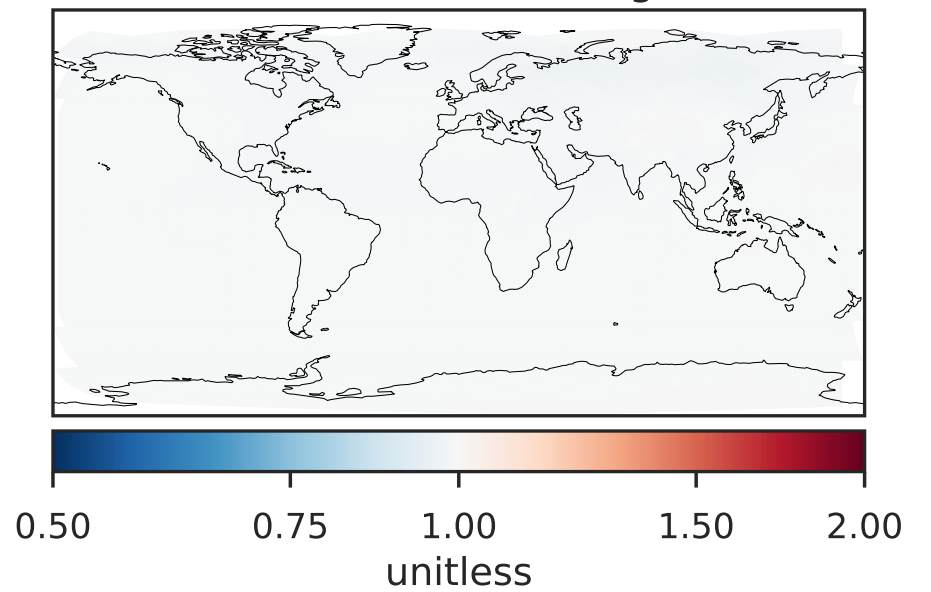
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

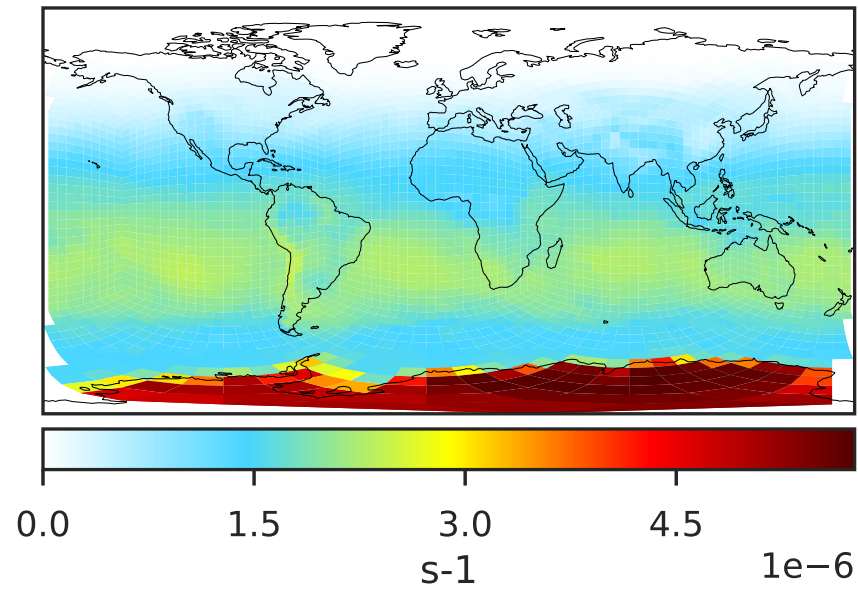


Ratio
Dev/Ref, Fixed Range

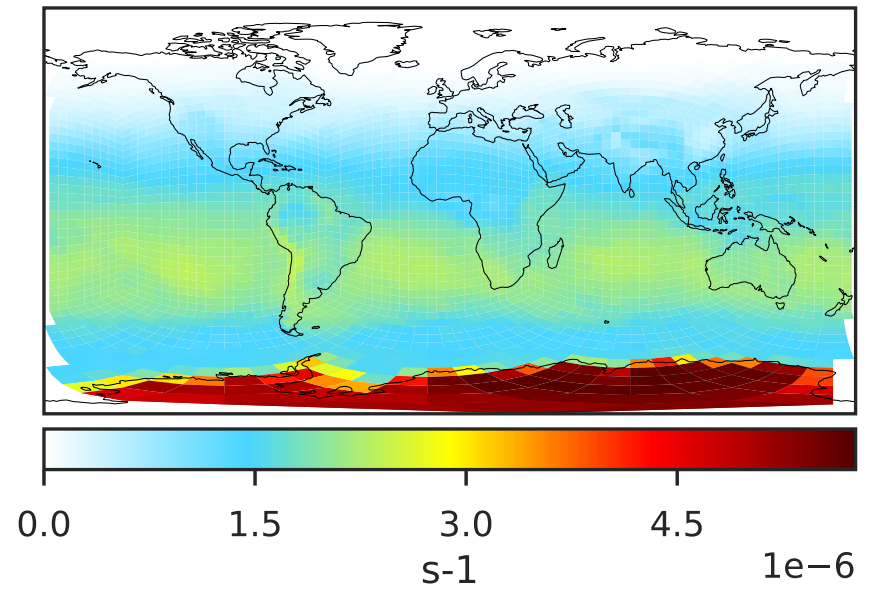


Jval_RP (Jan2019)

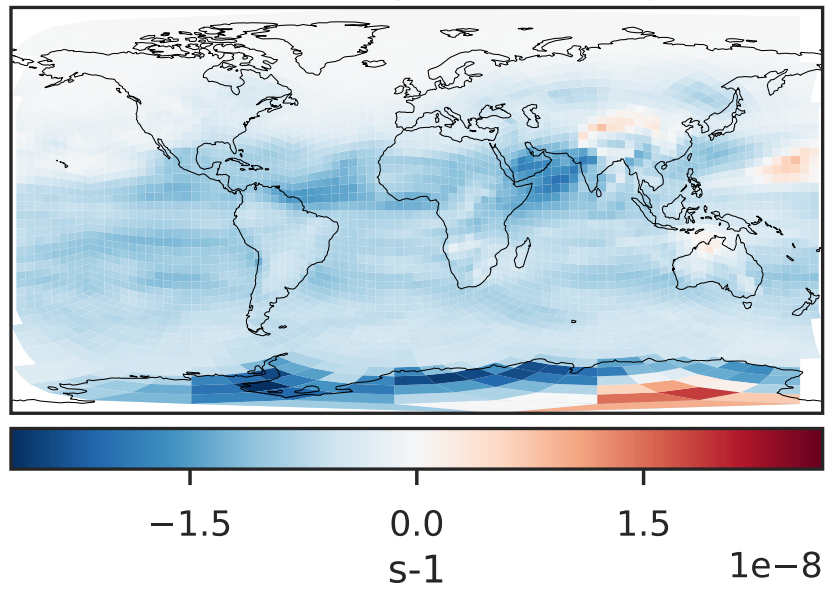
GCHP_14.0.0 (Ref)
c24



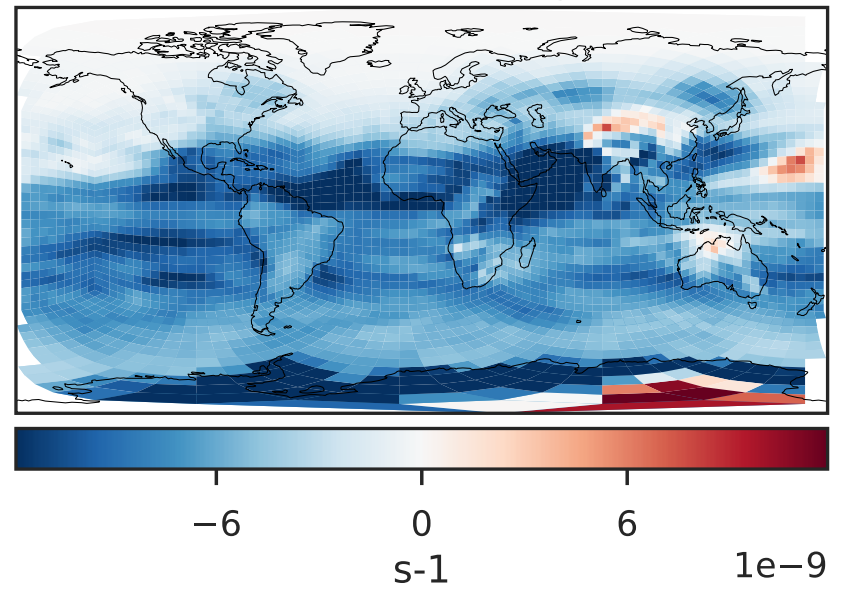
GCHP_14.2.0 (Dev)
c24



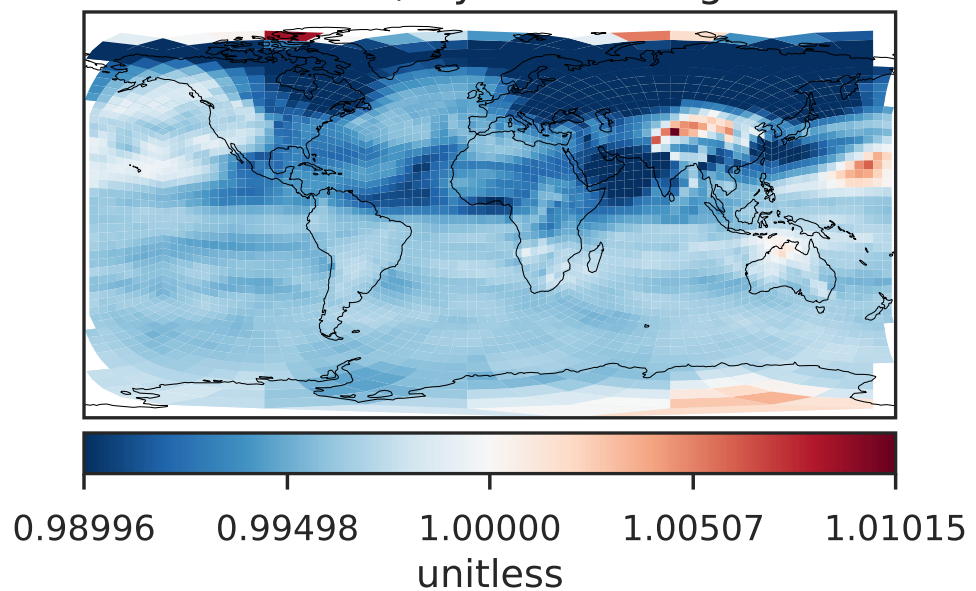
Difference
Dev - Ref, Dynamic Range



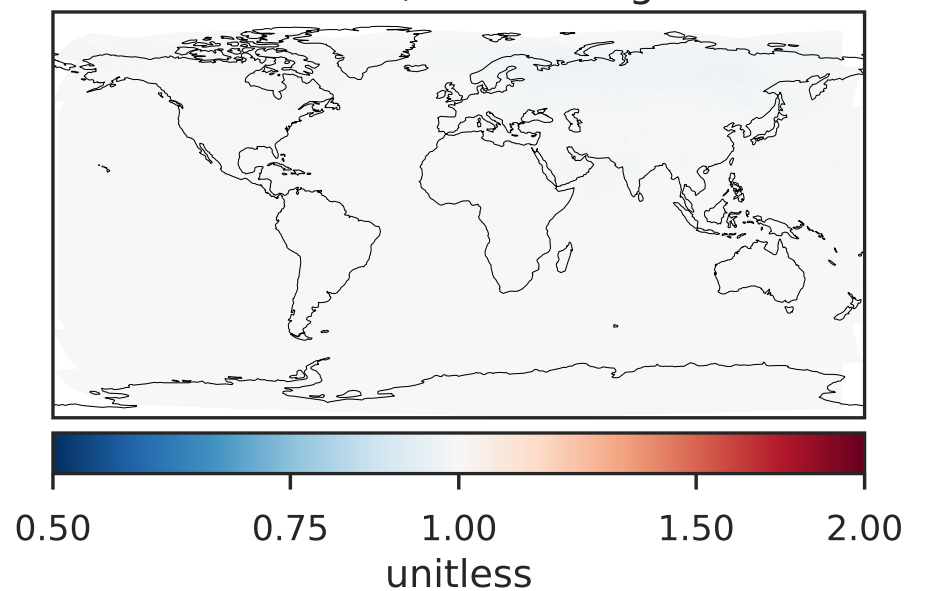
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



Jval_SO4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



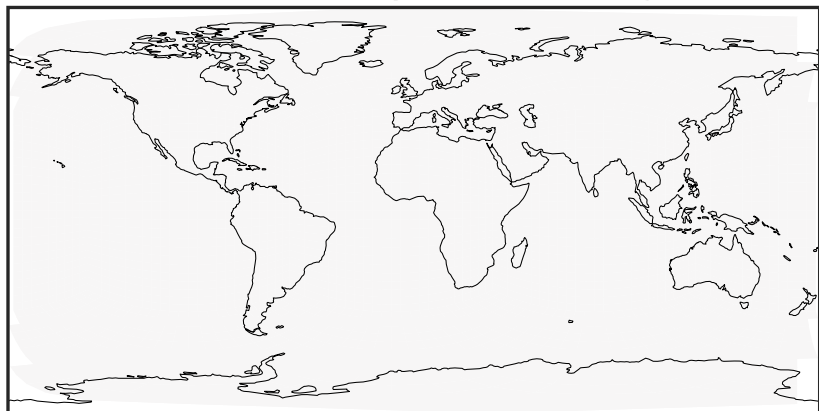
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



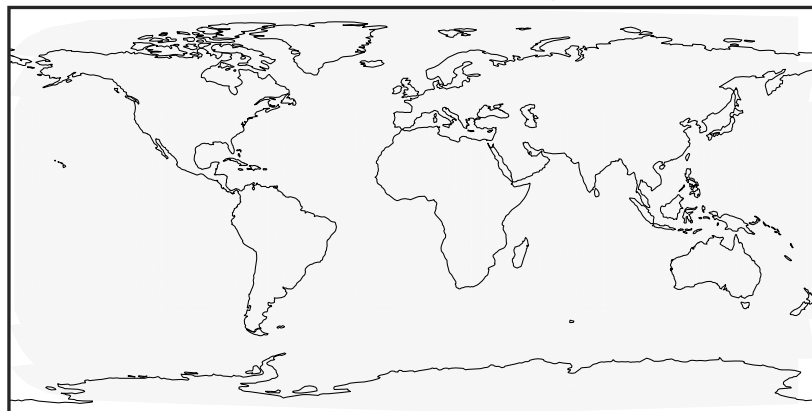
Zero throughput domain
s-1

Difference
Dev - Ref, Dynamic Range



Zero throughput domain
s-1

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



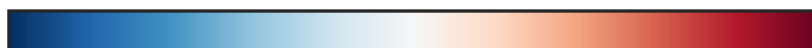
Zero throughput domain
s-1

Ratio
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

Ratio
Dev/Ref, Fixed Range



Undefined throughput domain
unitless