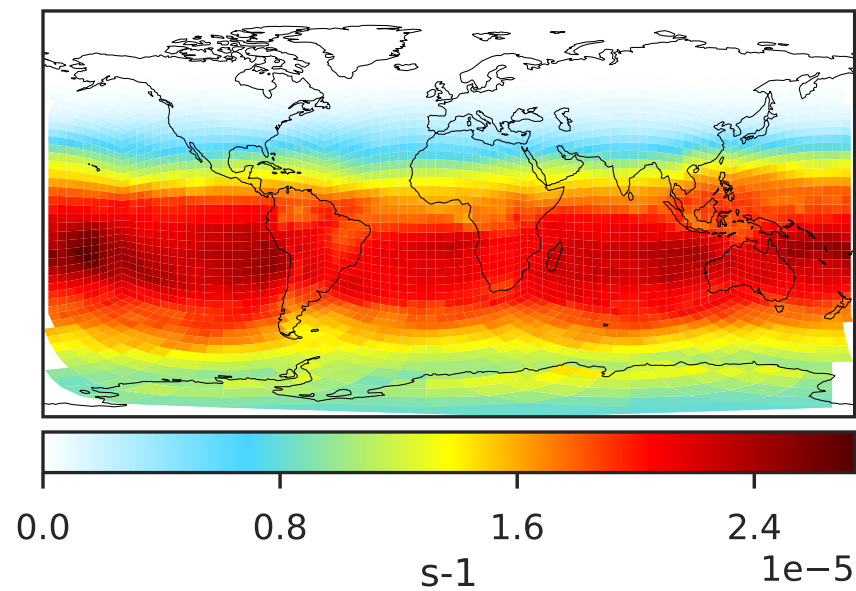
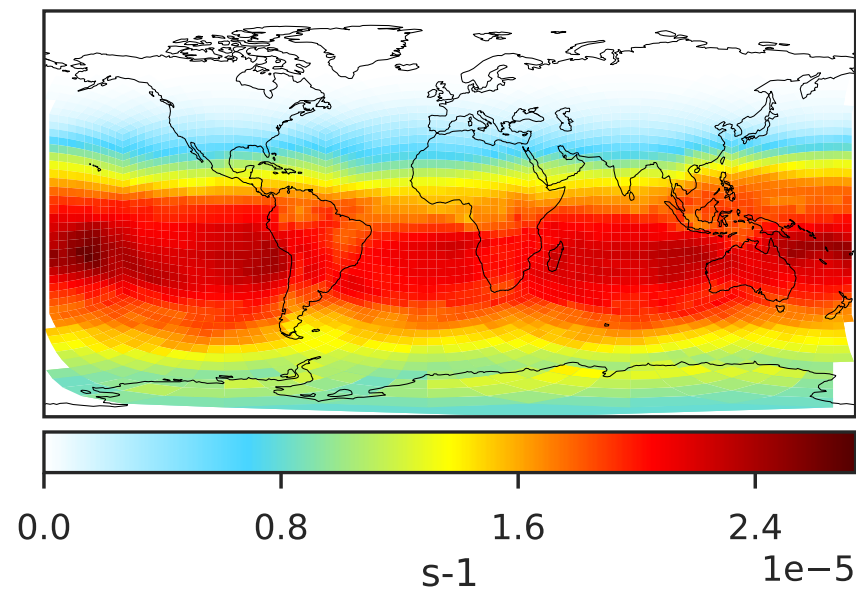


JvalO301D (Jan2019)

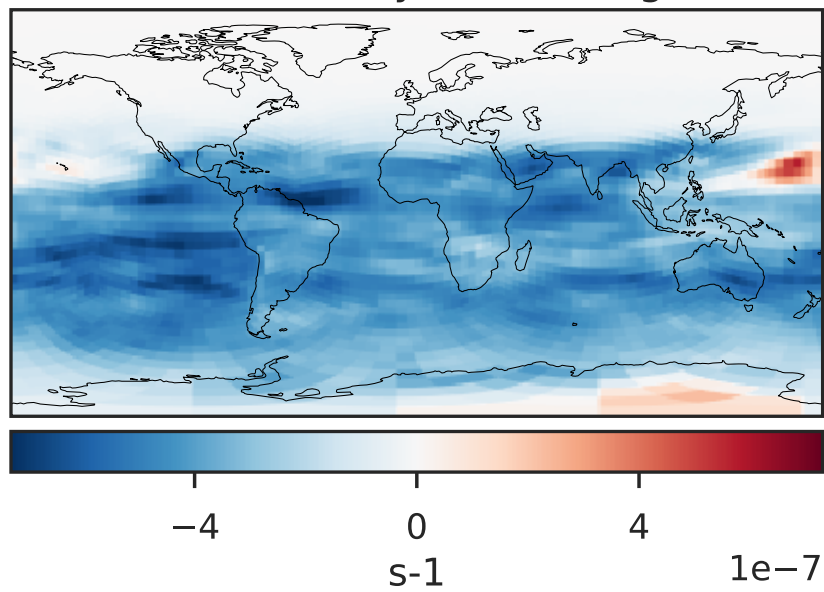
GCHP_14.0.0 (Ref)
c24



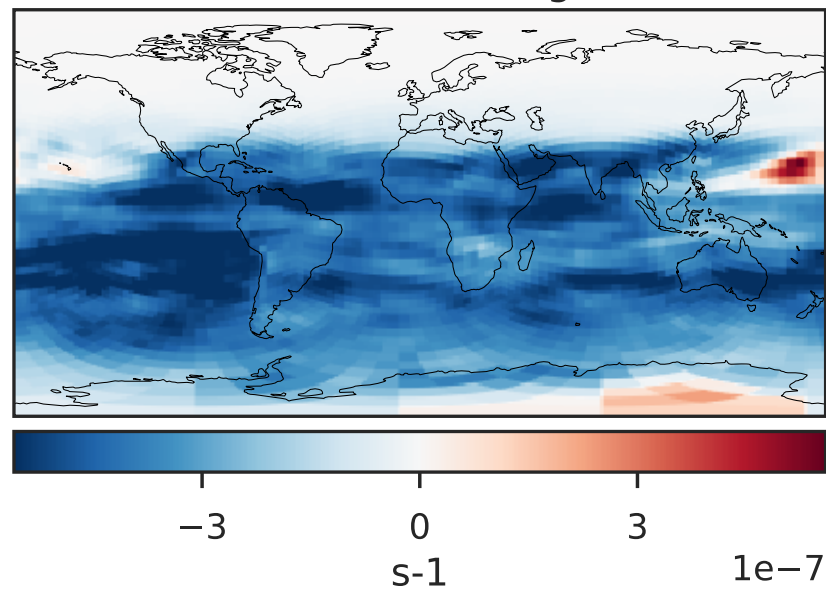
GCHP_14.2.0 (Dev)
c24



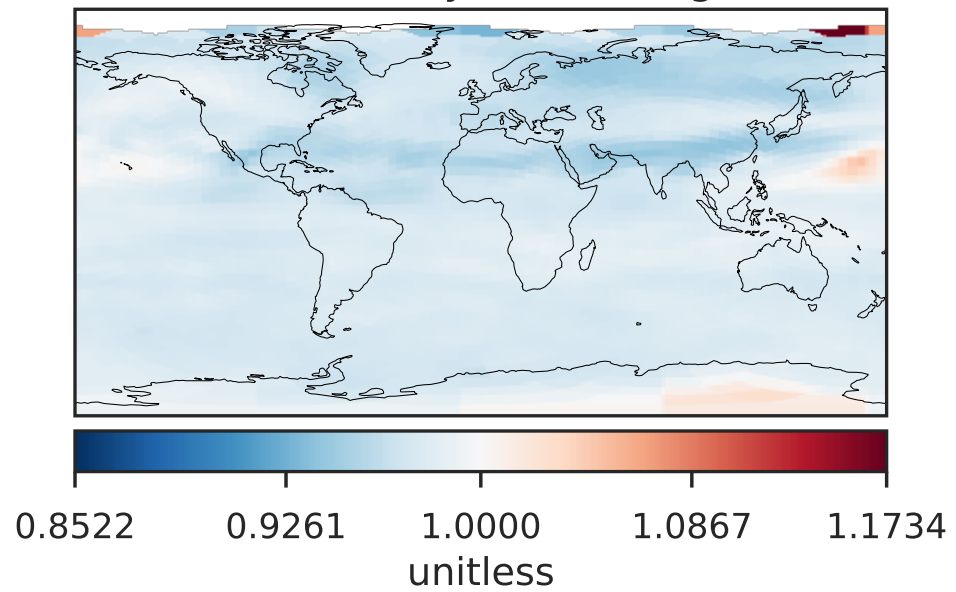
Difference (1x1.25)
Dev - Ref, Dynamic Range



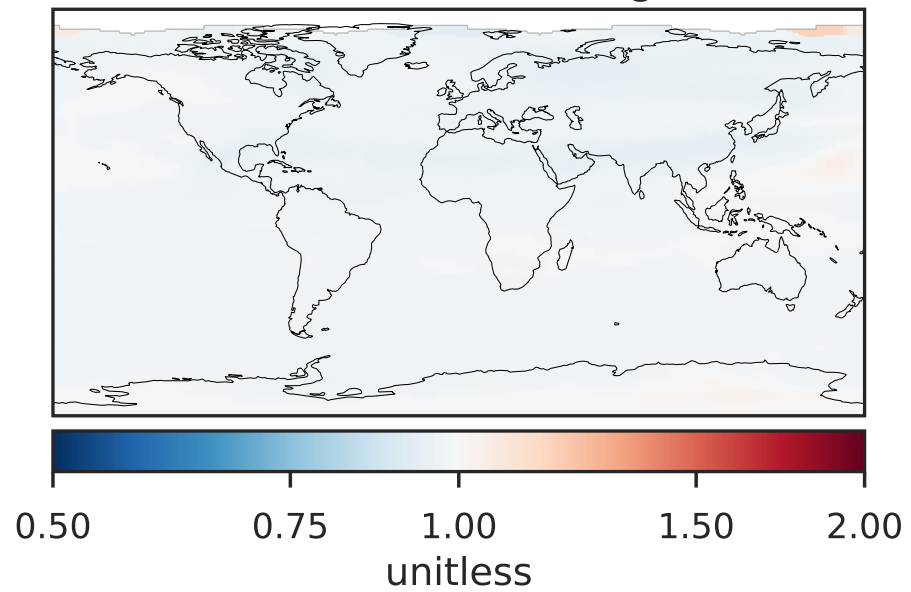
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

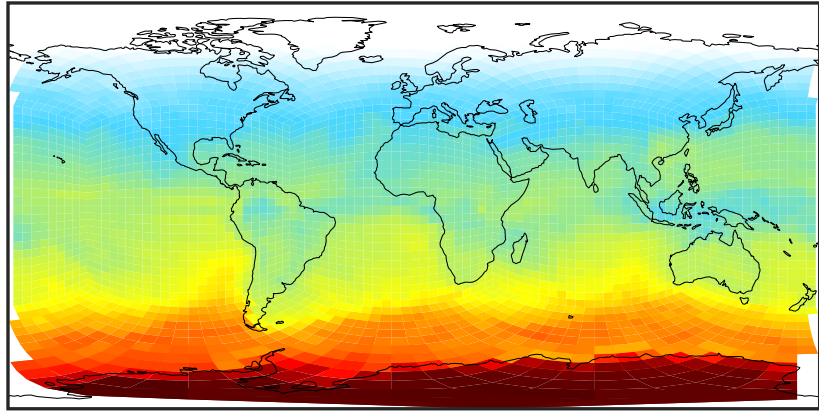


Ratio (1x1.25)
Dev/Ref, Fixed Range



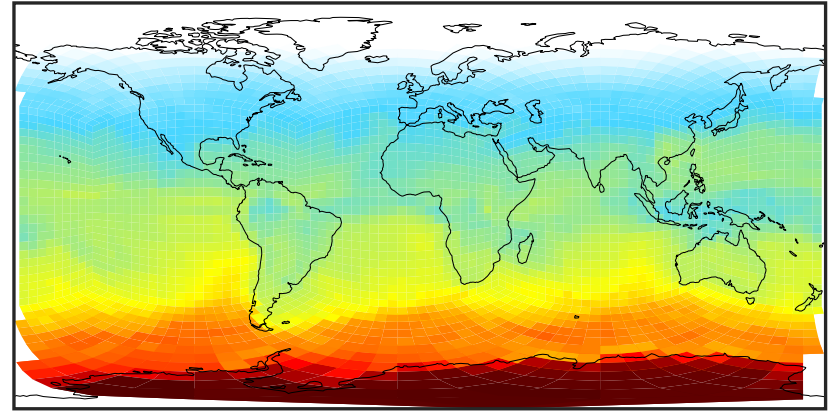
JvalO303P (Jan2019)

GCHP_14.0.0 (Ref)
c24



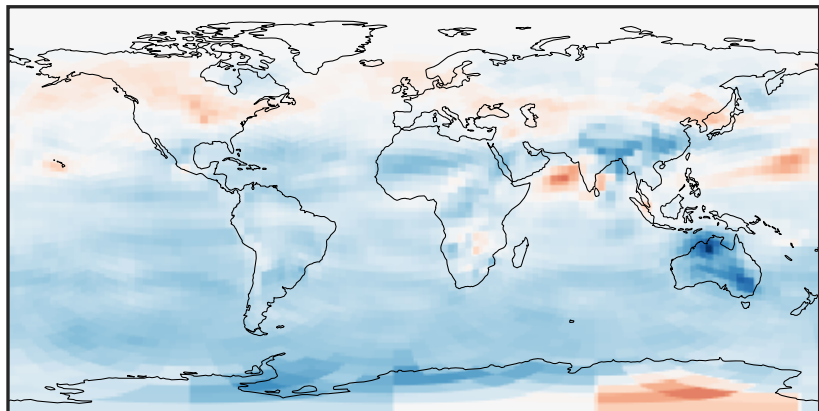
0.0000 0.0002 0.0004 0.0006
s-1

GCHP_14.2.0 (Dev)
c24



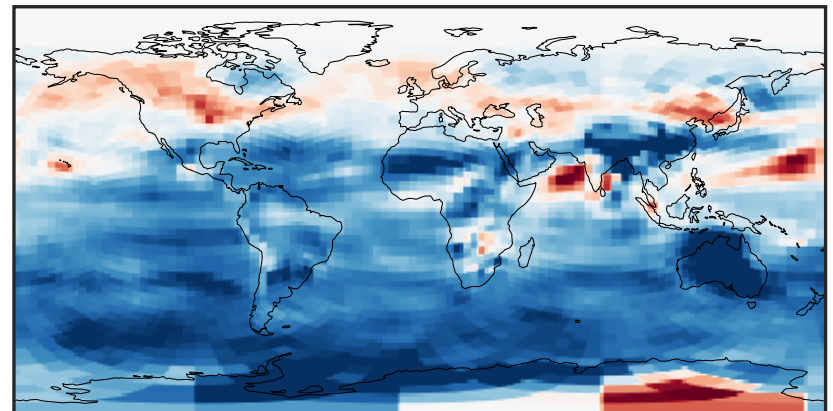
0.0000 0.0002 0.0004 0.0006
s-1

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



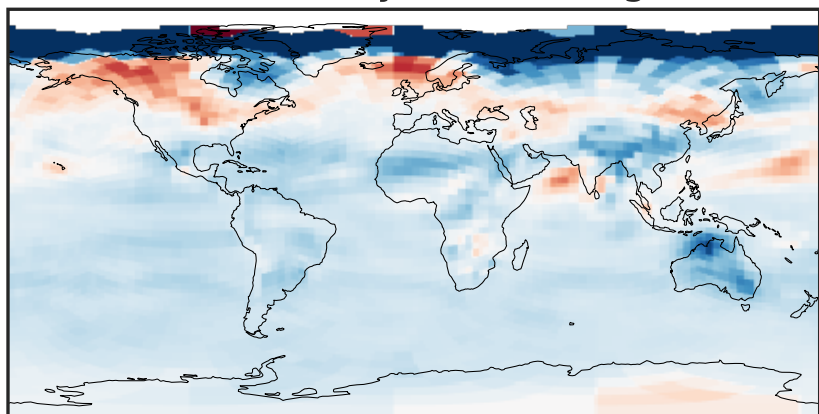
-8 0 8
s-1 1e-7

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



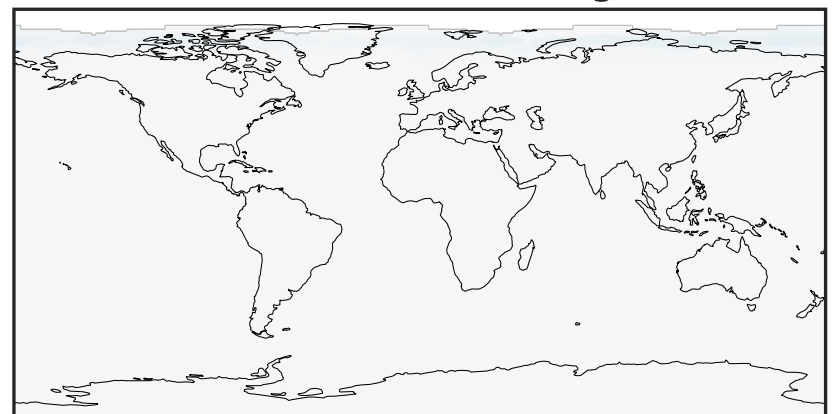
-3 0 3
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99426 0.99713 1.00000 1.00289 1.00577
unitless

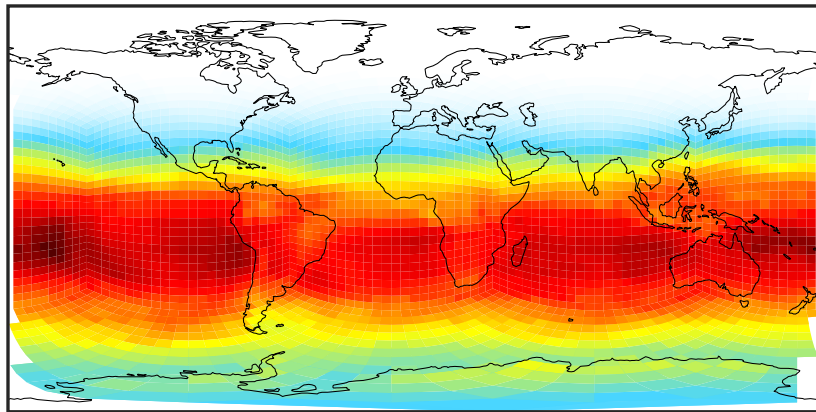
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

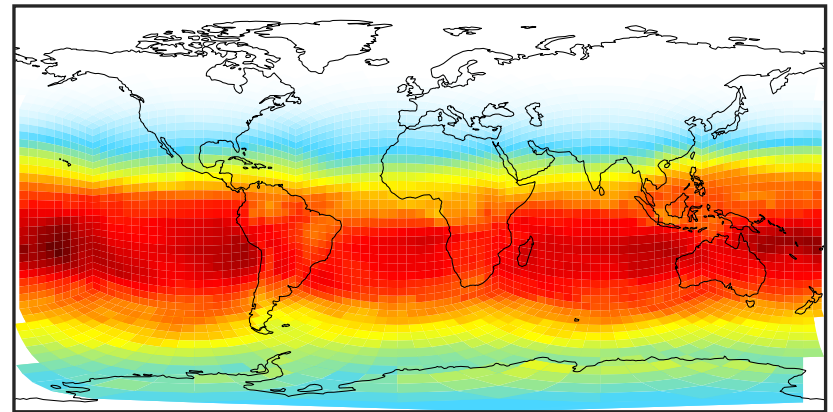
Jval_ACET (Jan2019)

GCHP_14.0.0 (Ref)
c24



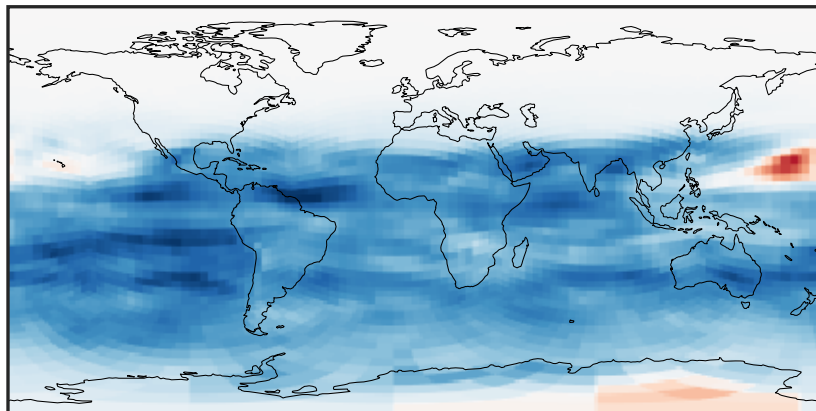
0.0 1.5 3.0 4.5
s-1 $1e-7$

GCHP_14.2.0 (Dev)
c24



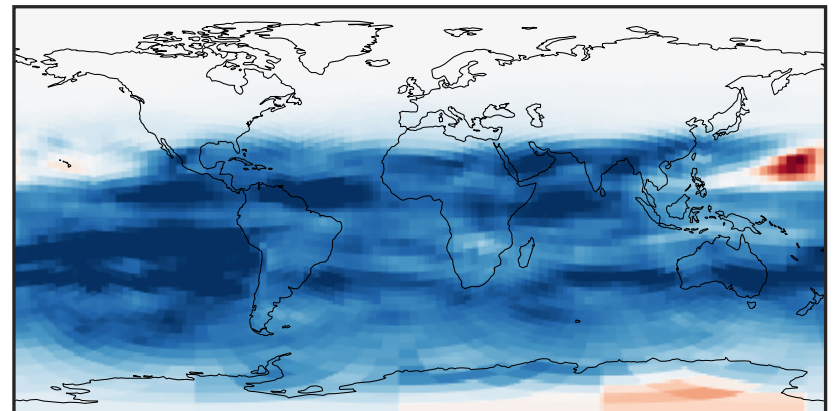
0.0 1.5 3.0 4.5
s-1 $1e-7$

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



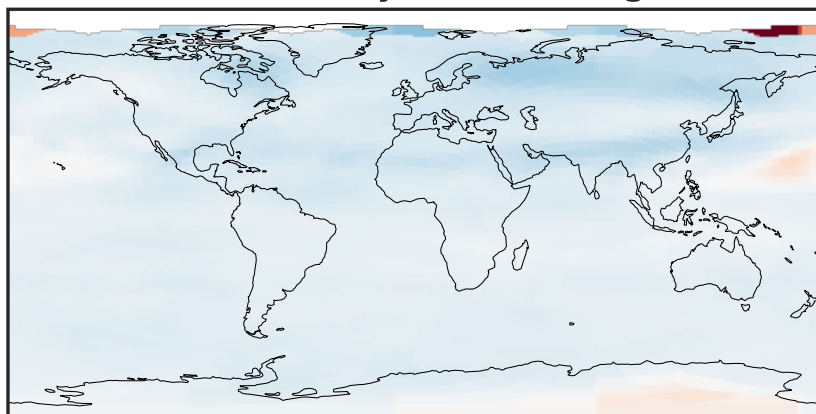
-8 0 8
s-1 $1e-9$

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



-6 0 6
s-1 $1e-9$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.7787 0.8893 1.0000 1.1421 1.2843
unitless

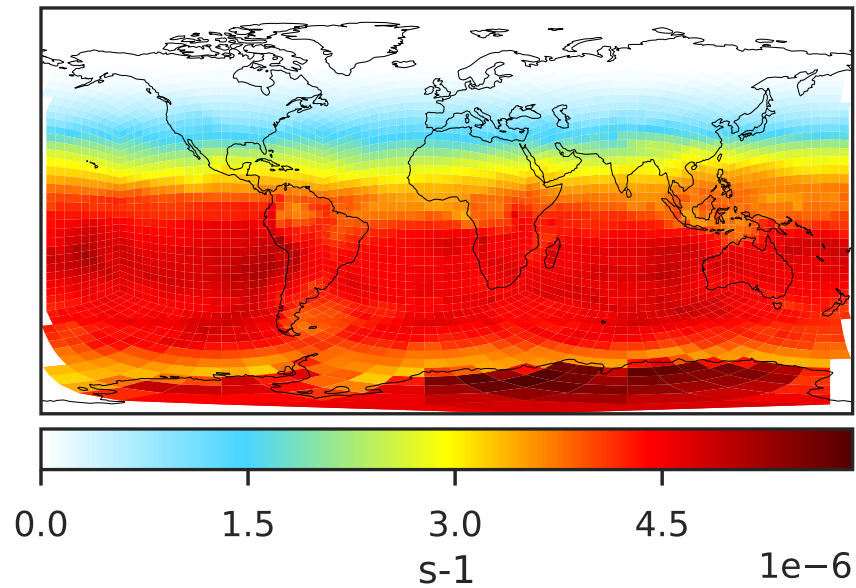
Ratio (1x1.25)
Dev/Ref, Fixed Range



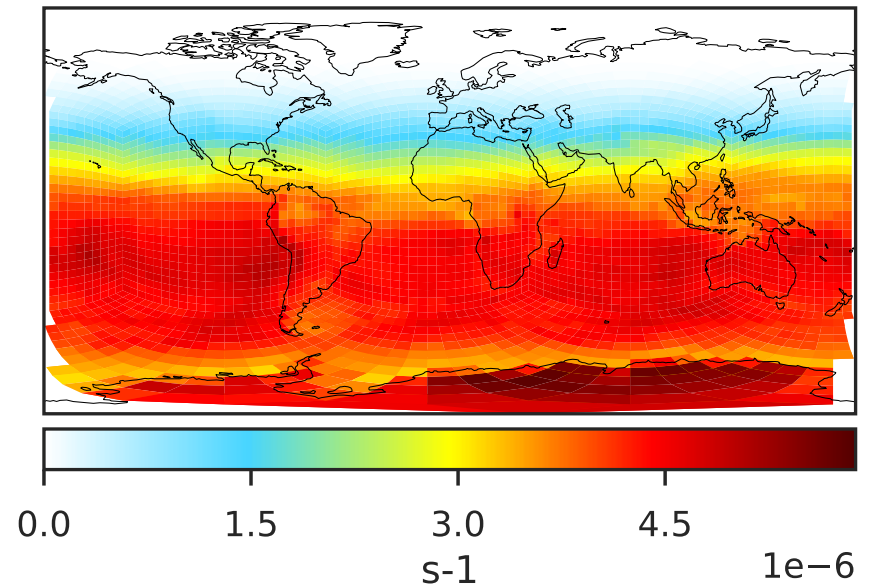
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ALD2 (Jan2019)

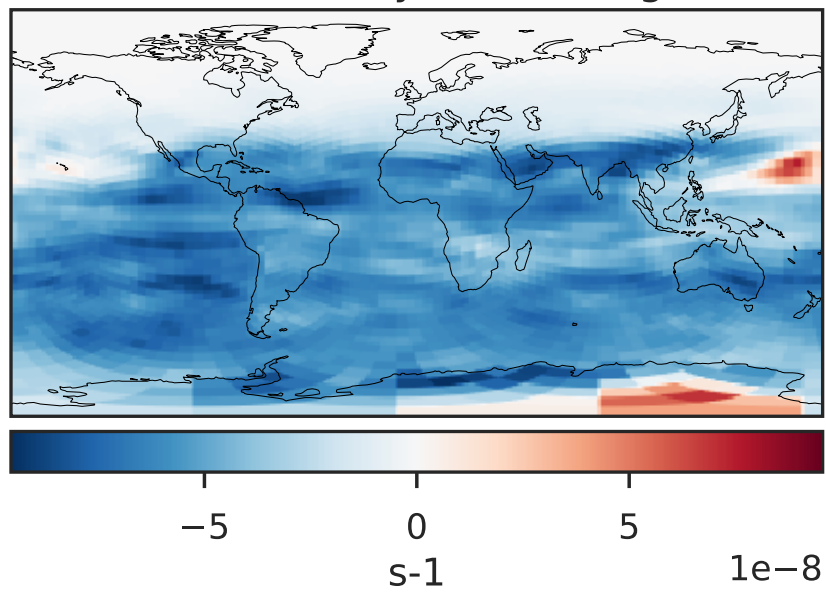
GCHP_14.0.0 (Ref)
c24



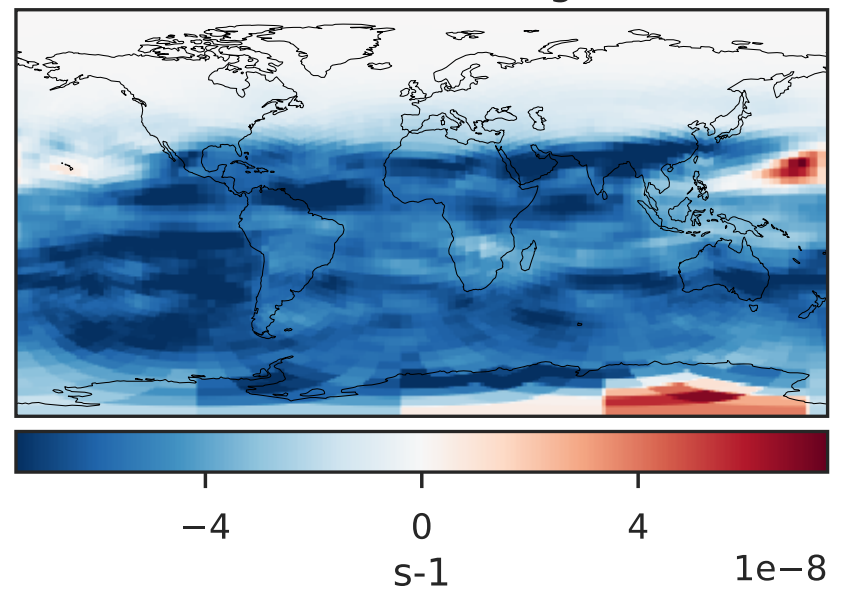
GCHP_14.2.0 (Dev)
c24



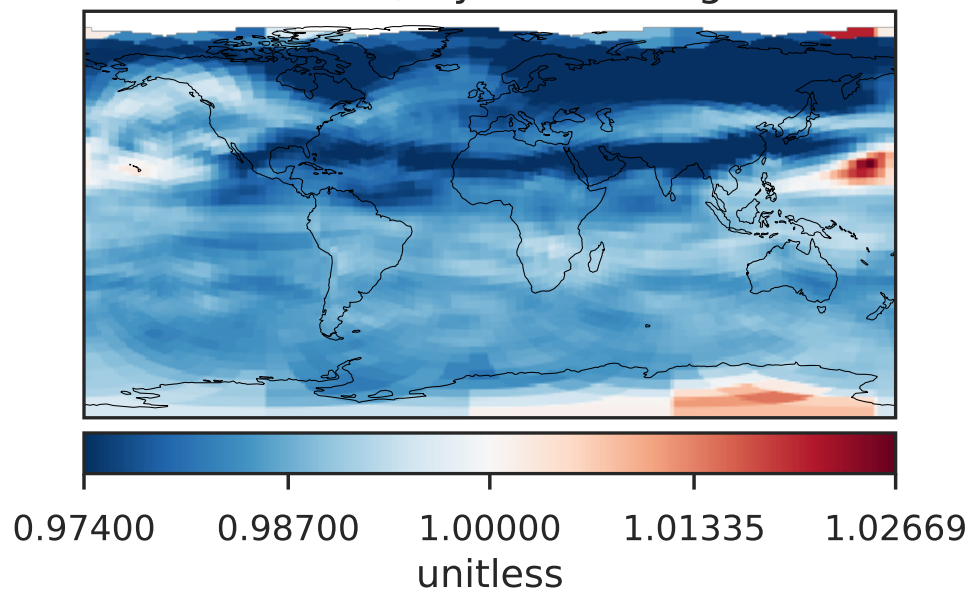
Difference (1x1.25)
Dev - Ref, Dynamic Range



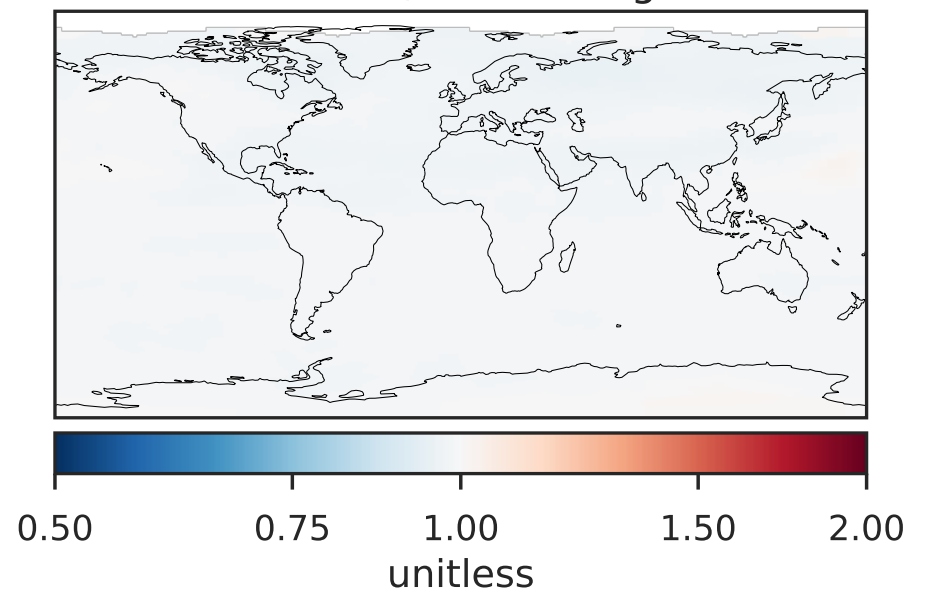
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

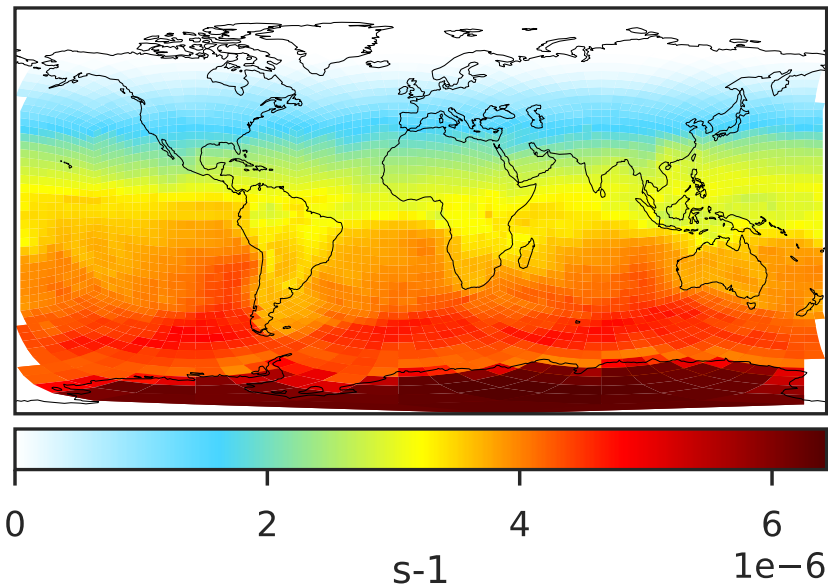


Ratio (1x1.25)
Dev/Ref, Fixed Range

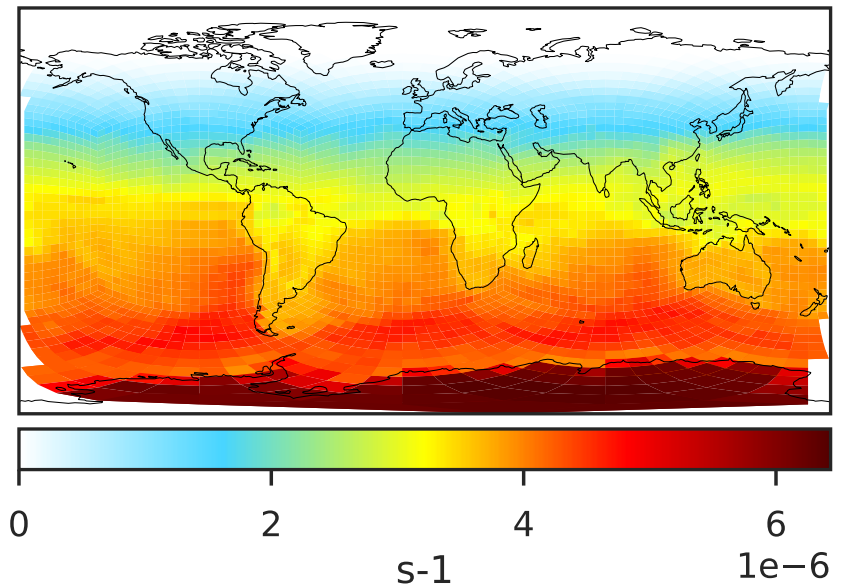


Jval_ATOOH (Jan2019)

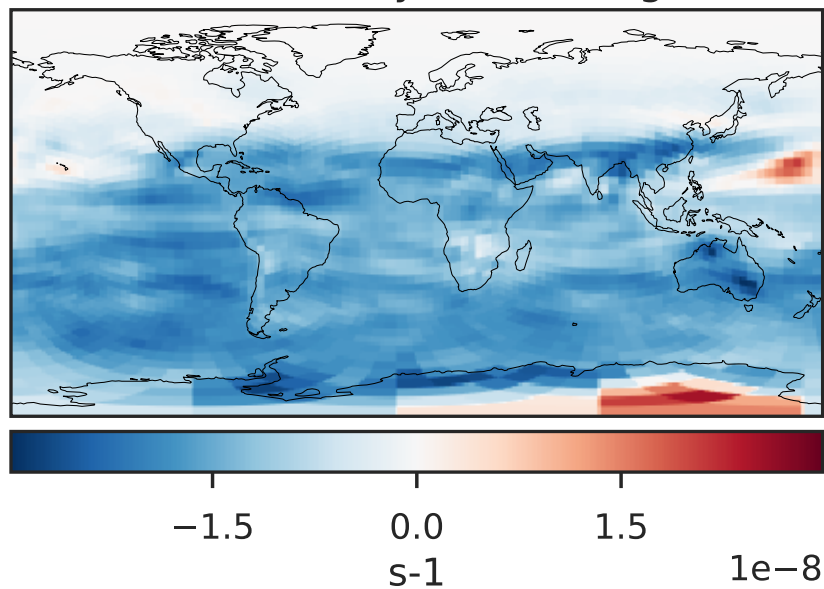
GCHP_14.0.0 (Ref)
c24



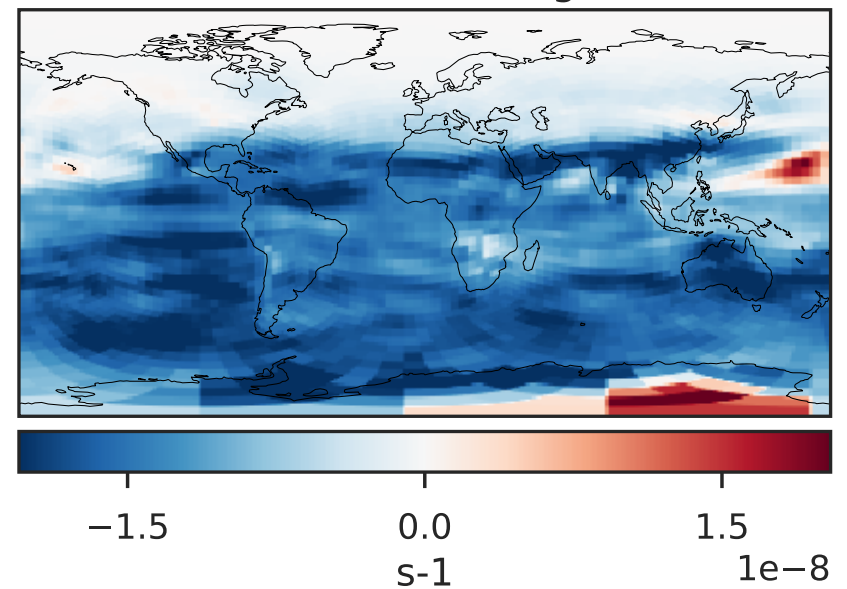
GCHP_14.2.0 (Dev)
c24



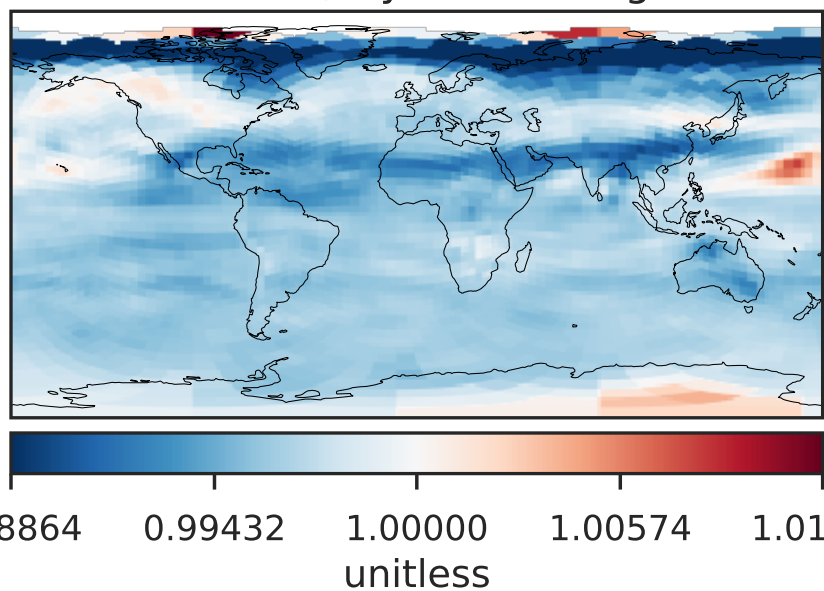
Difference (1x1.25)
Dev - Ref, Dynamic Range



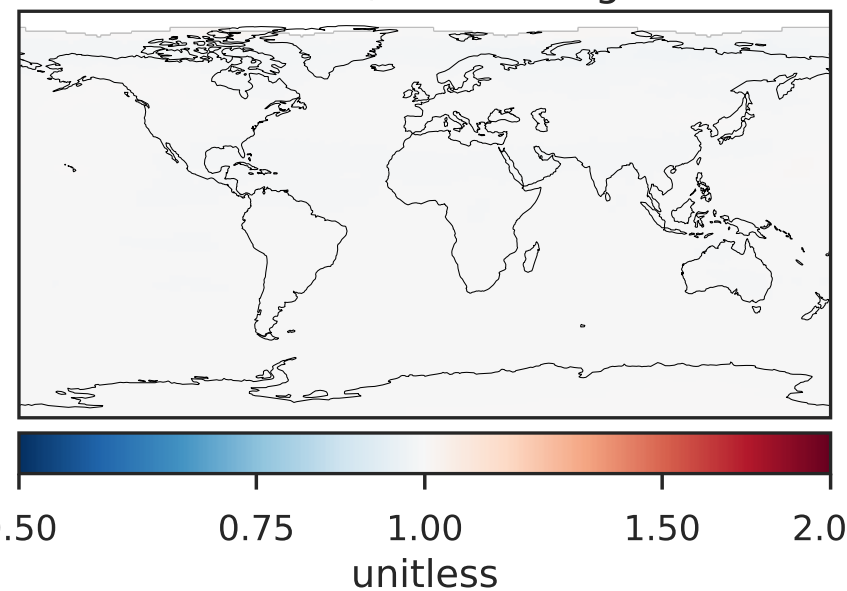
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range



Ratio (1x1.25)
Dev/Ref, Fixed Range



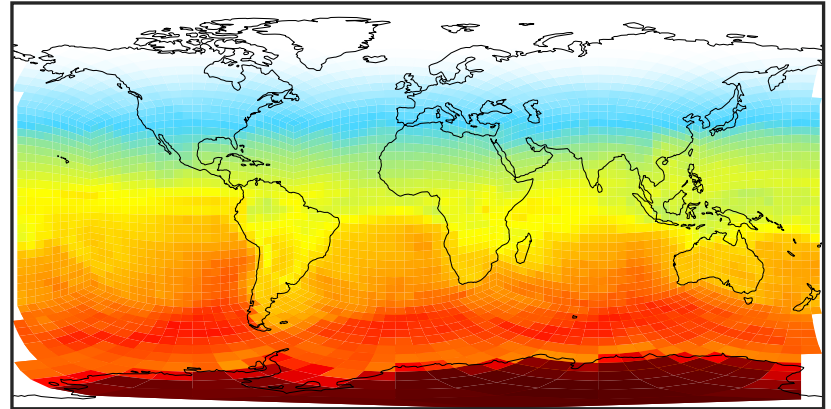
Jval_BALD (Jan2019)

GCHP_14.0.0 (Ref)
c24



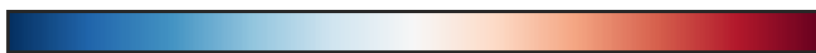
Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



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

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



Undefined throughout domain
s-1

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



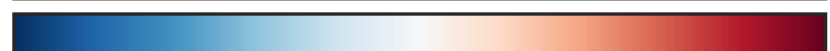
Undefined throughout domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

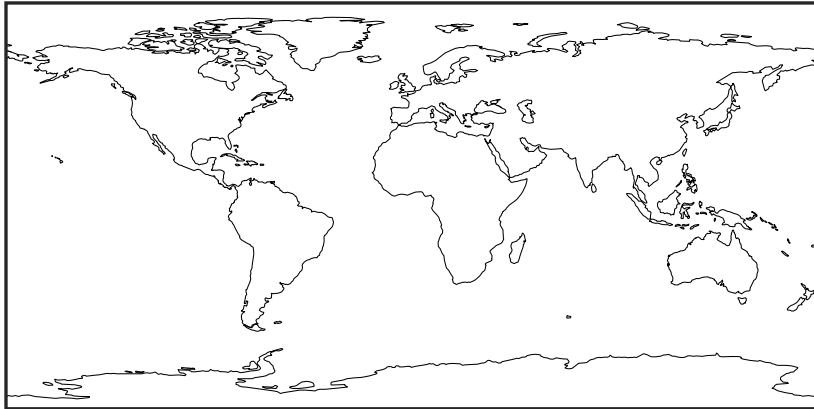
Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

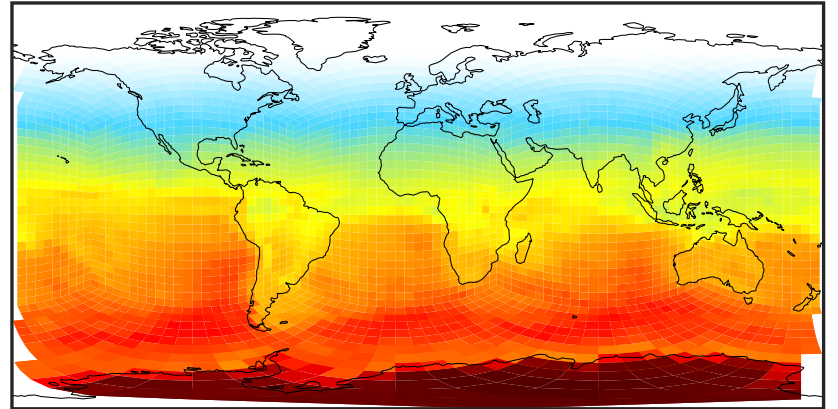
Jval_BENZP (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



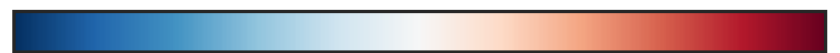
0 2 4 6
s-1 1e-6

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



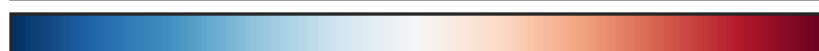
Undefined throughout domain
s-1

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



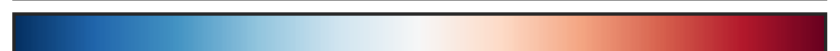
Undefined throughout domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

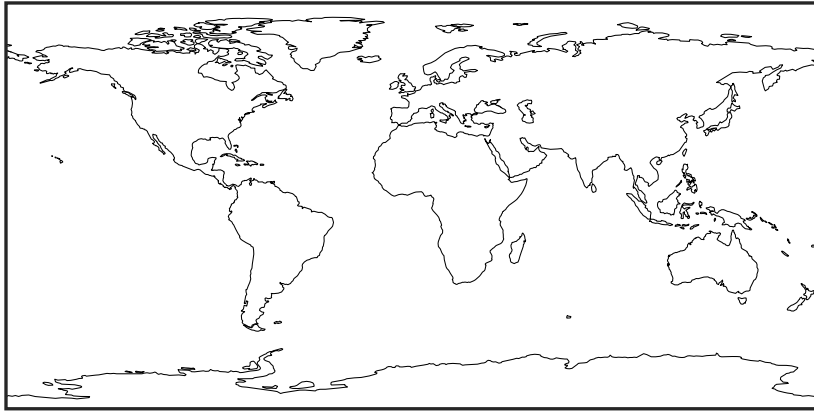
Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

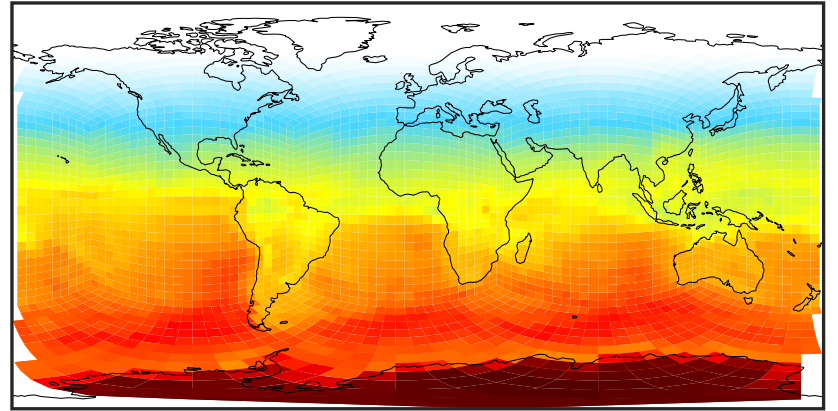
Jval_BZCO3H (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



0 2 4 6
s-1 $1e-6$

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



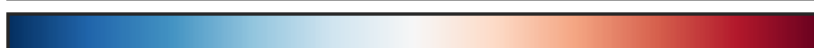
Undefined throughout domain
s-1

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



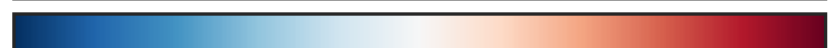
Undefined throughout domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

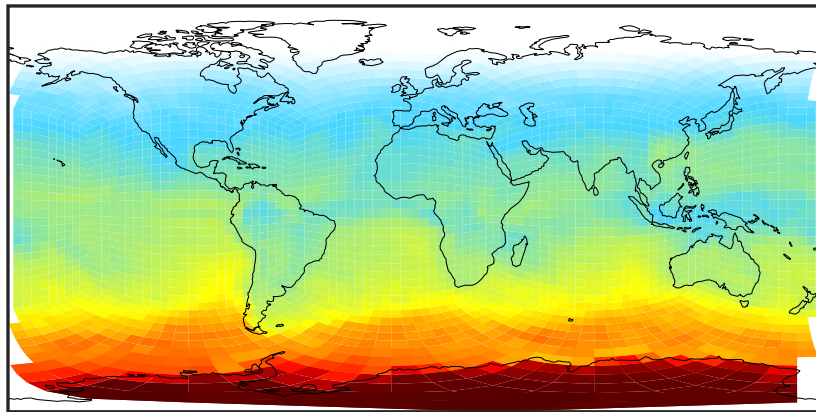
Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

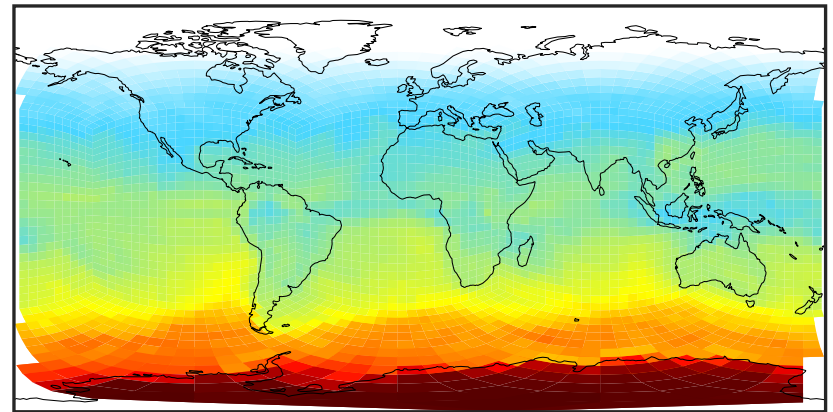
Jval_Br2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



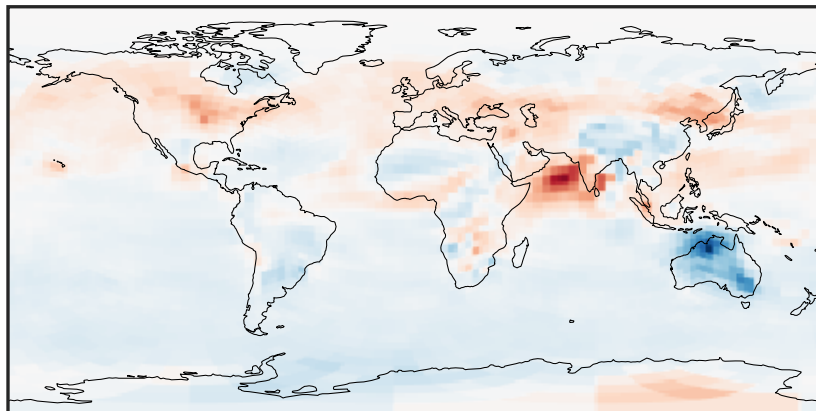
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



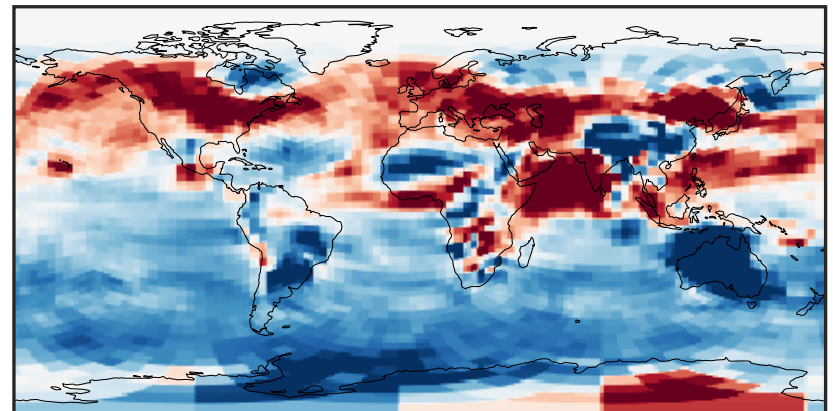
0.000 0.015 0.030 0.045
s-1

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



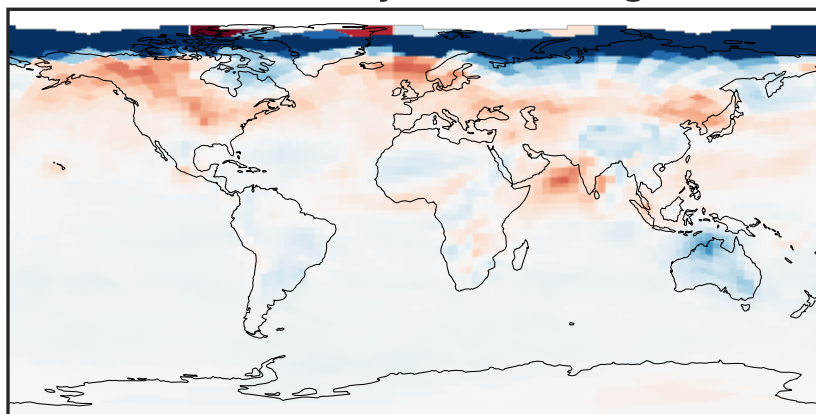
-5 0 5
s-1 1e-5

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



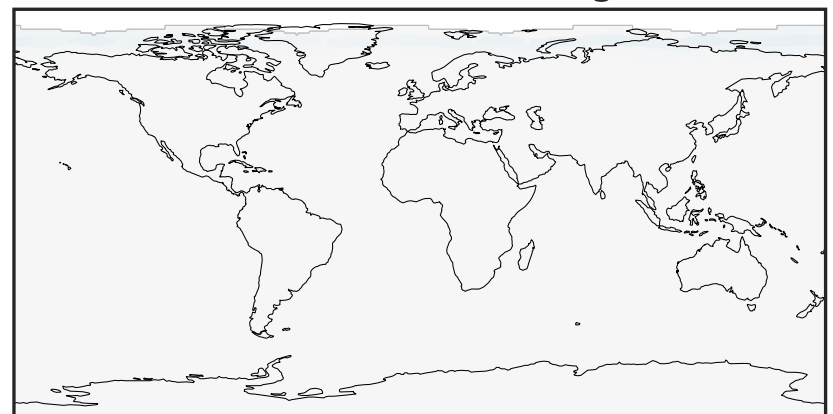
-8 0 8
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99232 0.99616 1.00000 1.00387 1.00774
unitless

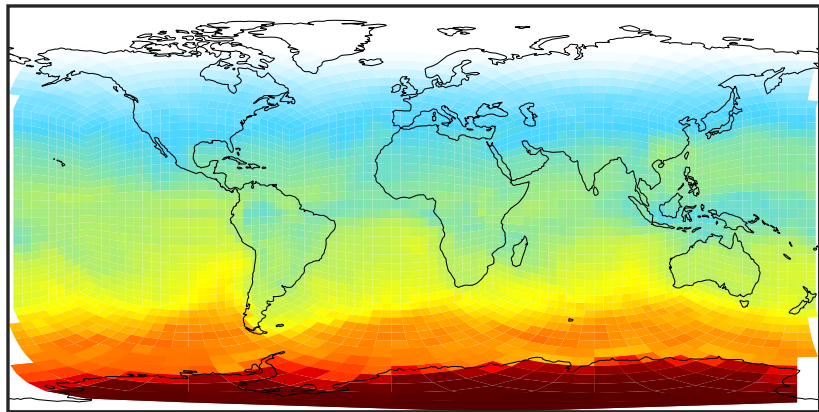
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

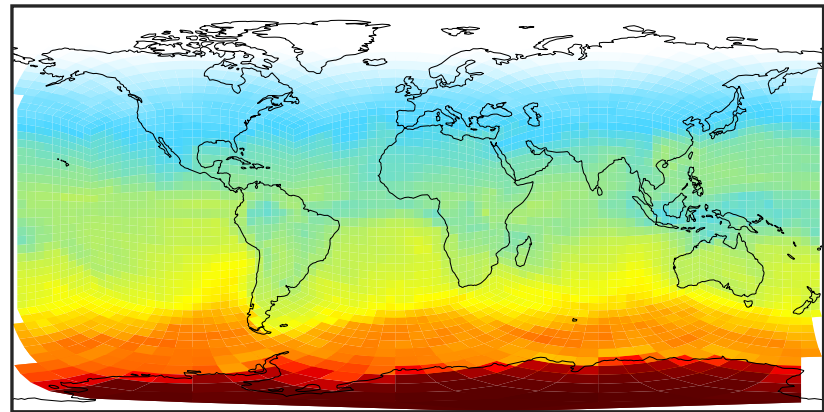
Jval_BrCl (Jan2019)

GCHP_14.0.0 (Ref)
c24



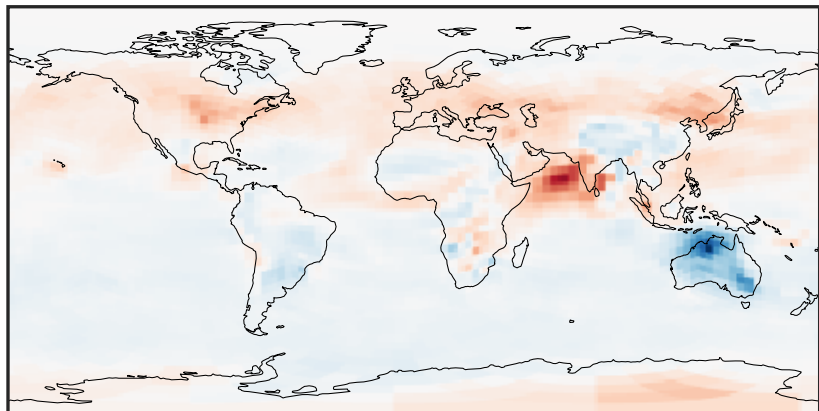
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



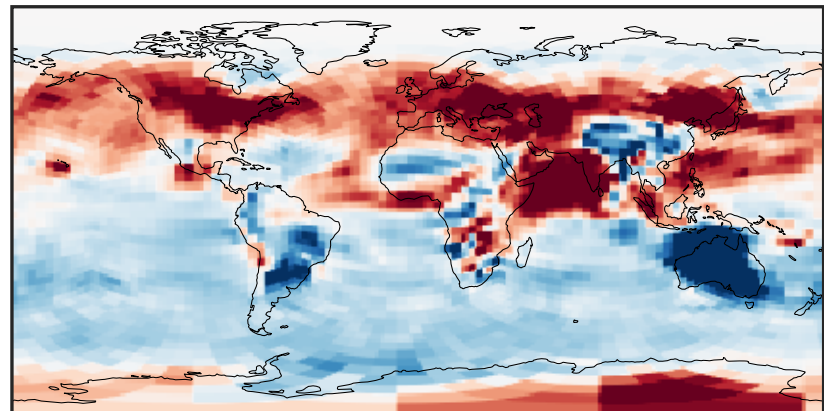
0.000 0.004 0.008 0.012
s-1

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



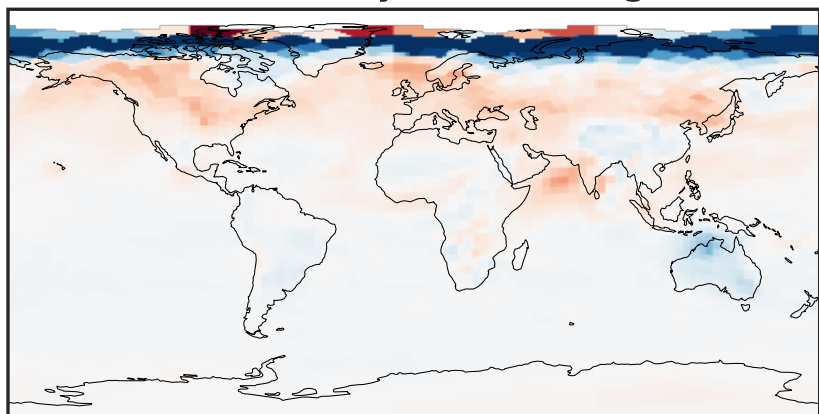
-2 0 2
s-1 1e-5

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



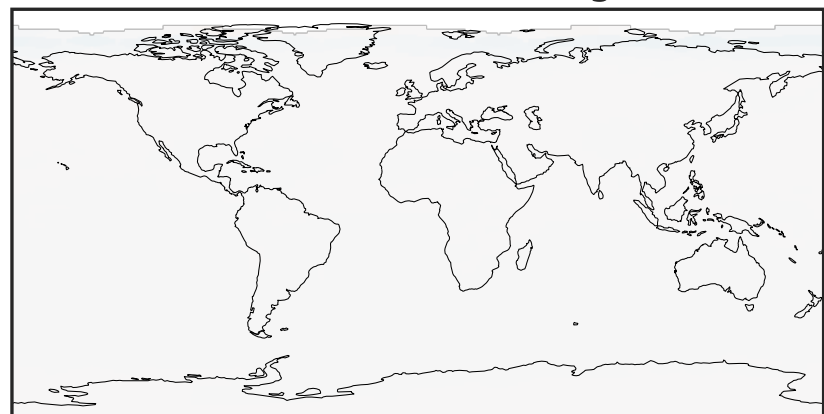
-3 0 3
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98898 0.99449 1.00000 1.00557 1.01115
unitless

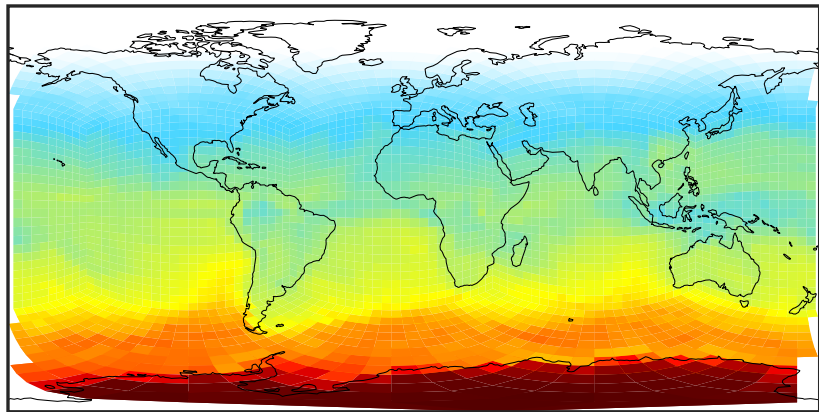
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

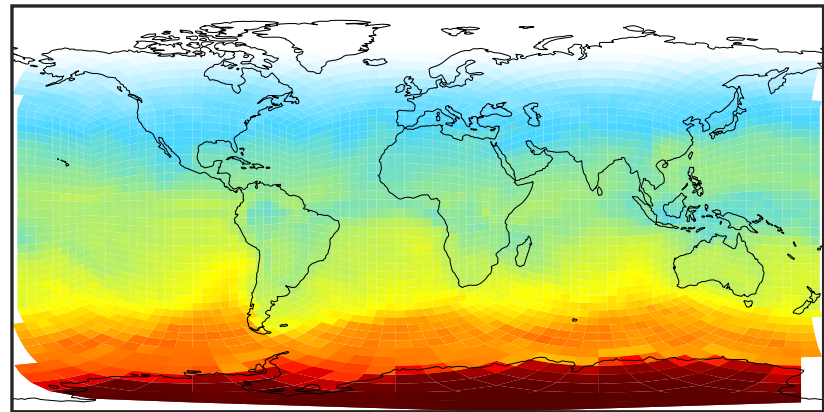
Jval_BrNO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



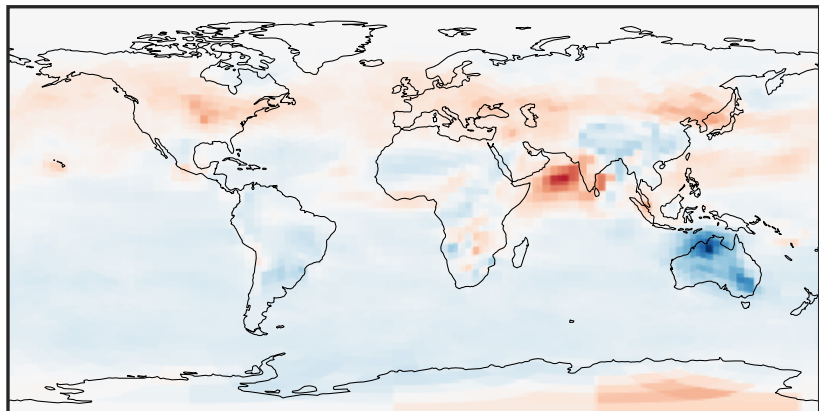
0.0000 0.0025 0.0050 0.0075
s-1

GCHP_14.2.0 (Dev)
c24



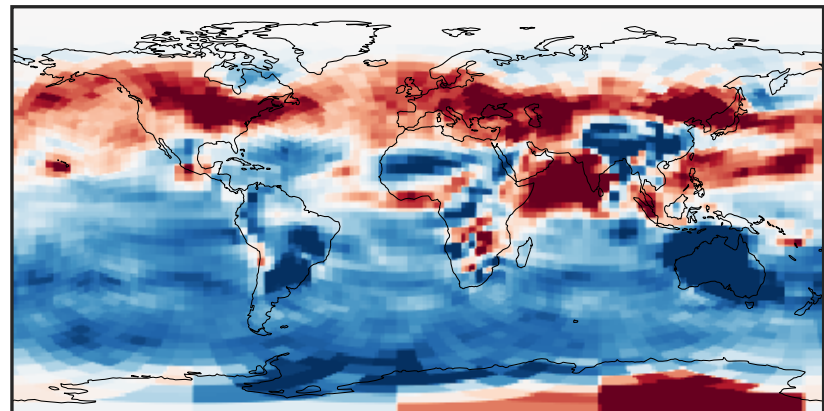
0.0000 0.0025 0.0050 0.0075
s-1

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



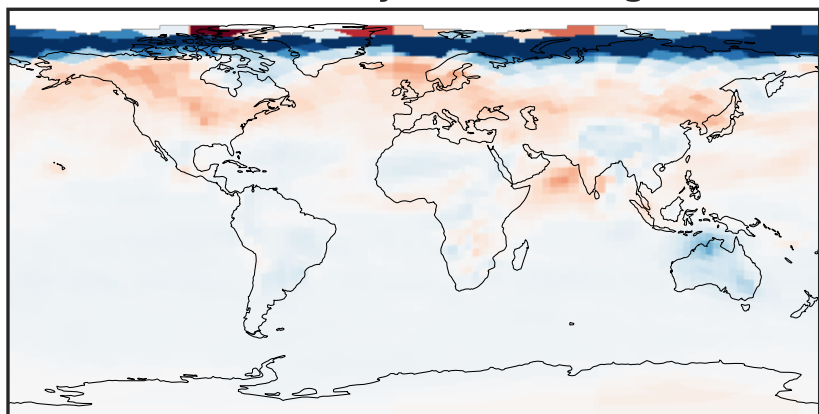
-1 0 1
s-1 1e-5

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



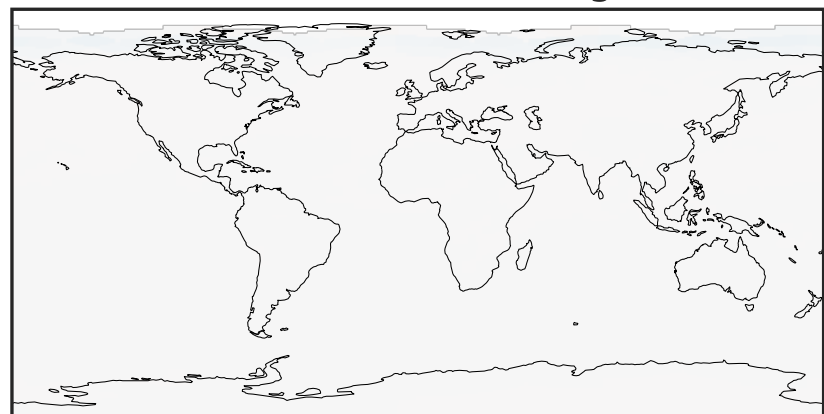
-2 0 2
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98979 0.99489 1.00000 1.00516 1.01032
unitless

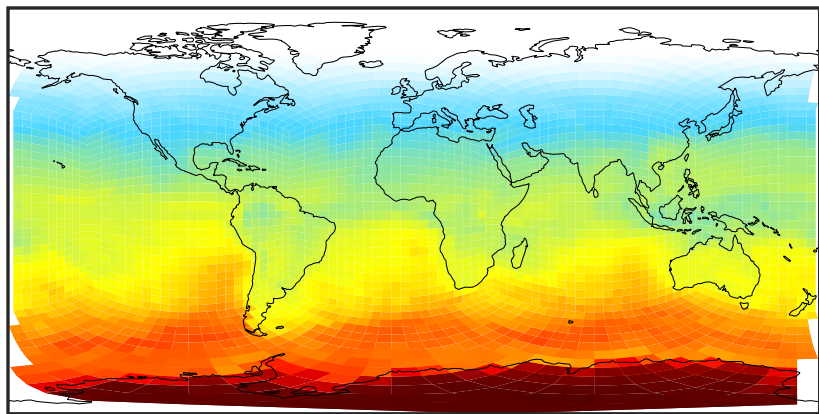
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

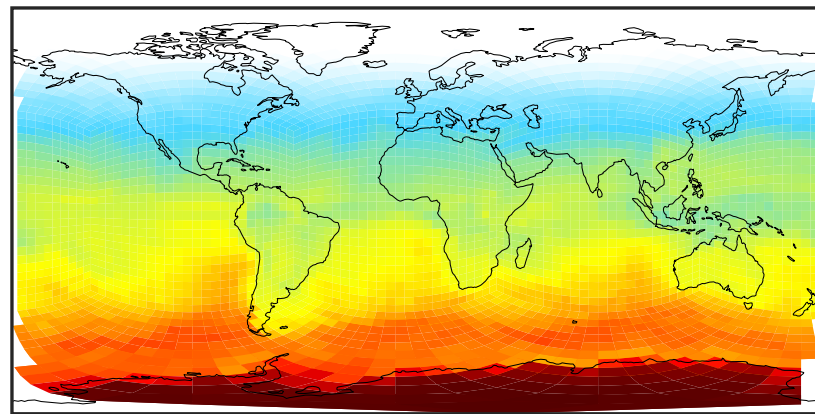
Jval_BrNO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



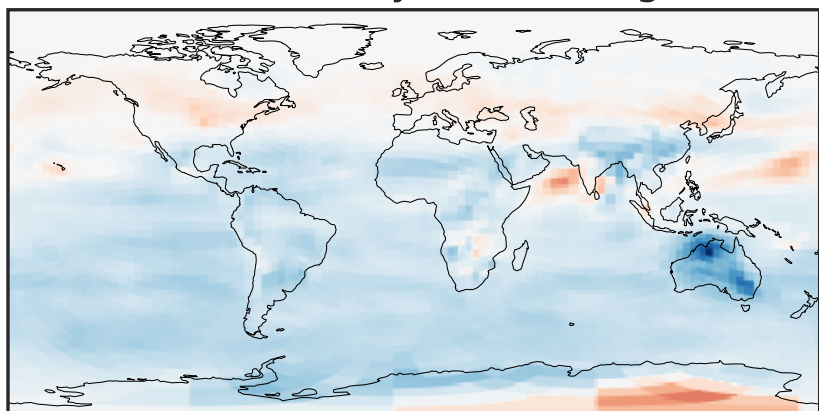
0.0000 0.0005 0.0010 0.0015
s-1

GCHP_14.2.0 (Dev)
c24



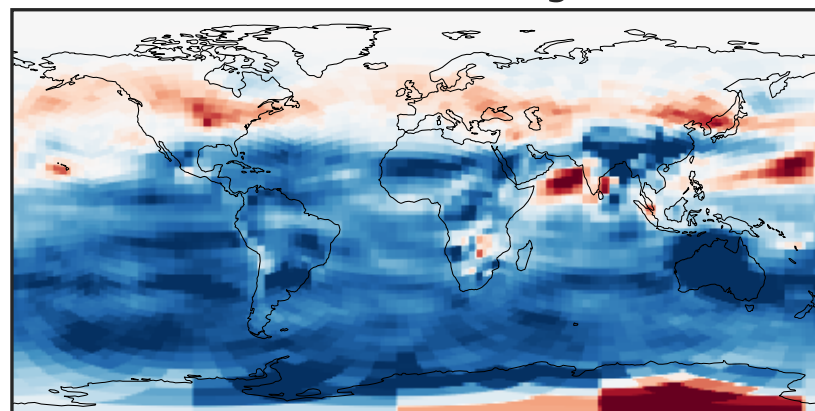
0.0000 0.0005 0.0010 0.0015
s-1

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



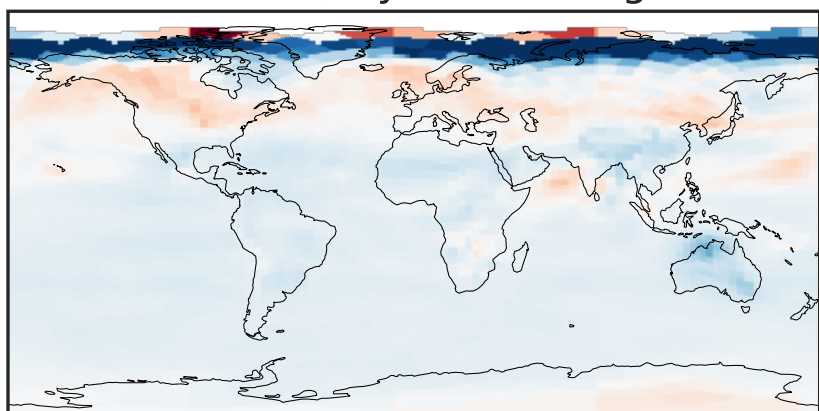
-2.5 0.0 2.5
s-1 1e-6

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



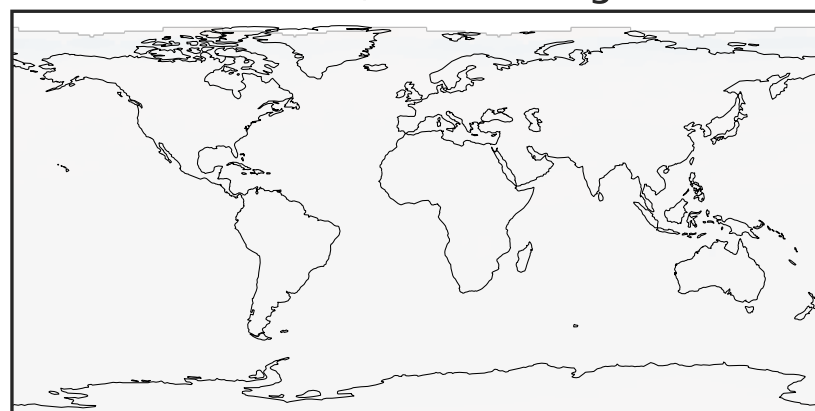
-8 0 8
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98845 0.99422 1.00000 1.00584 1.01169
unitless

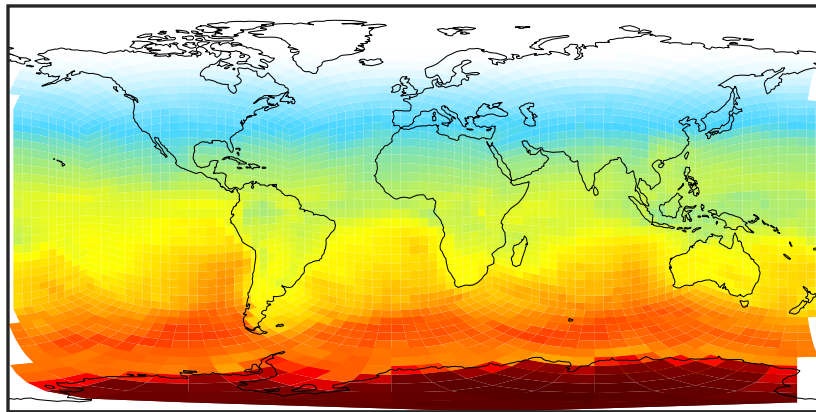
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

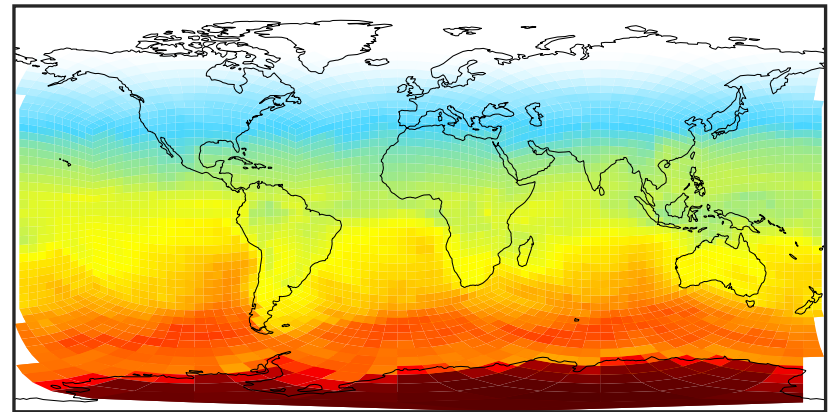
Jval_BrO (Jan2019)

GCHP_14.0.0 (Ref)
c24



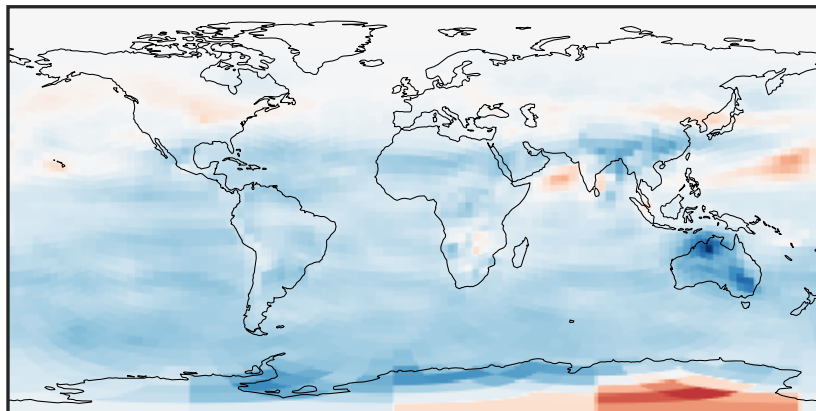
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



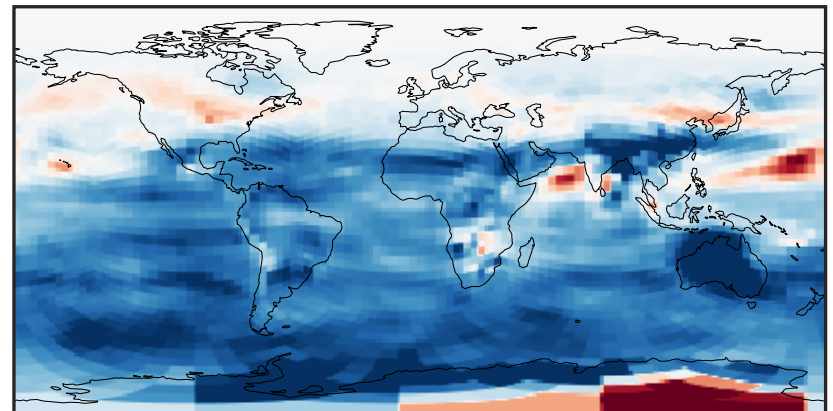
0.000 0.015 0.030 0.045
s-1

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



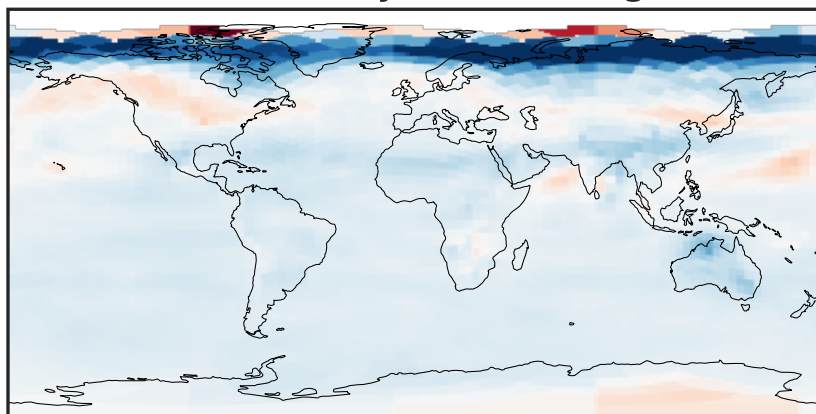
-8 0 8
s-1 1e-5

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



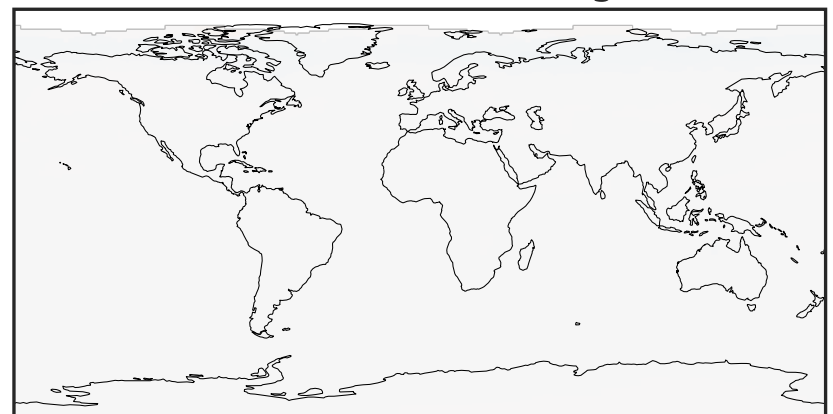
-3 0 3
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98787 0.99393 1.00000 1.00614 1.01228
unitless

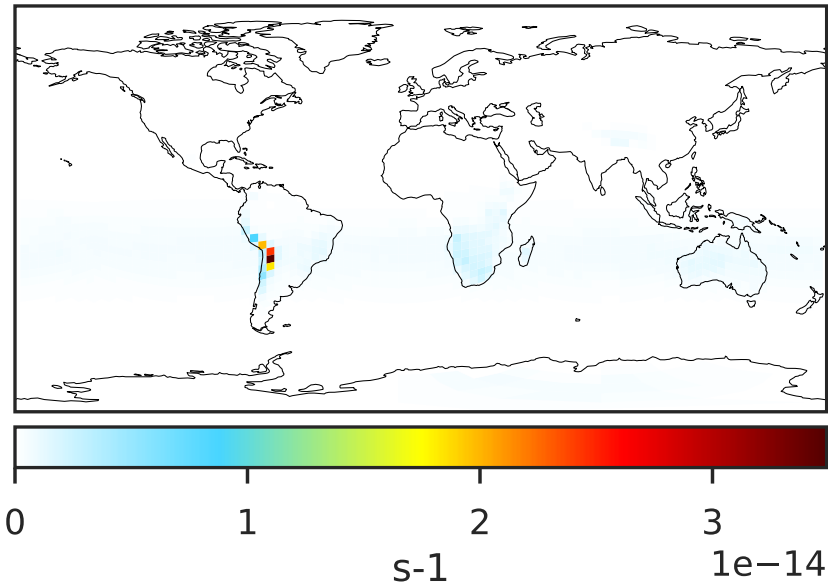
Ratio (1x1.25)
Dev/Ref, Fixed Range



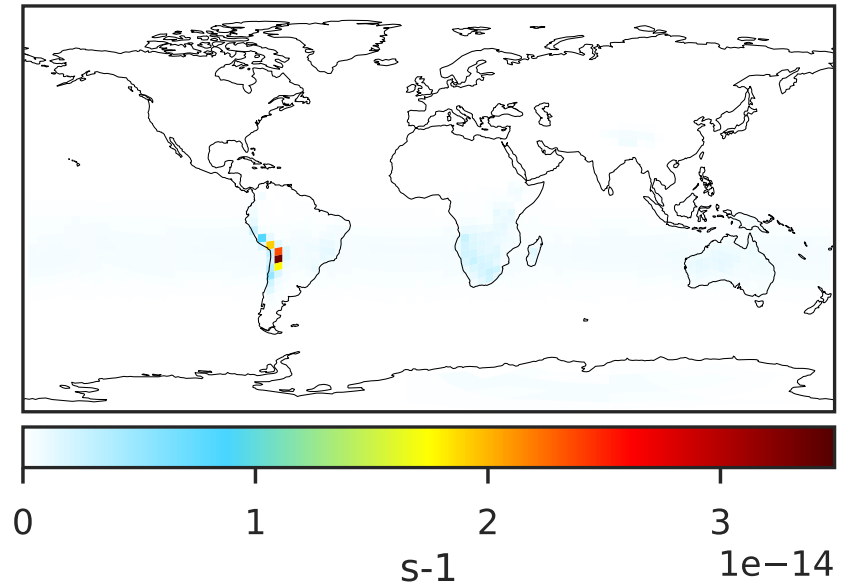
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CCl4 (Jan2019)

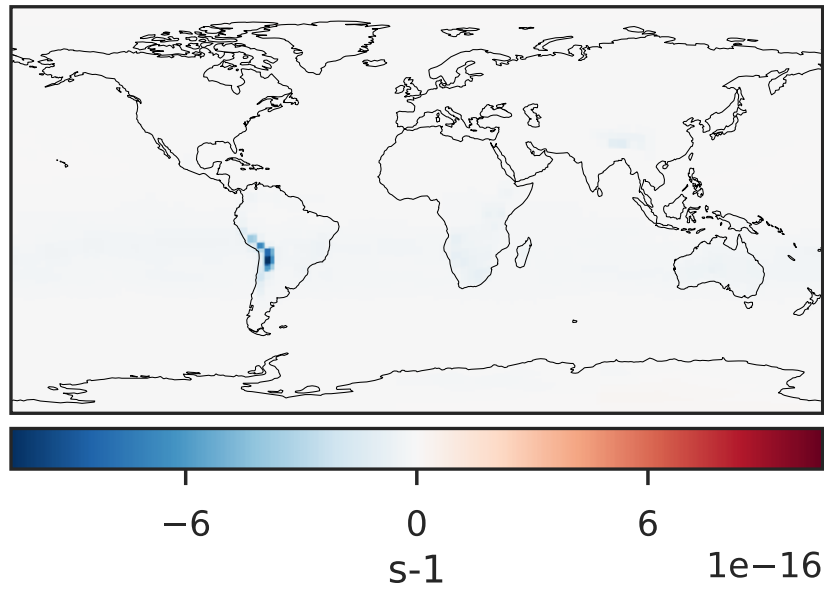
GCHP_14.0.0 (Ref)
c24



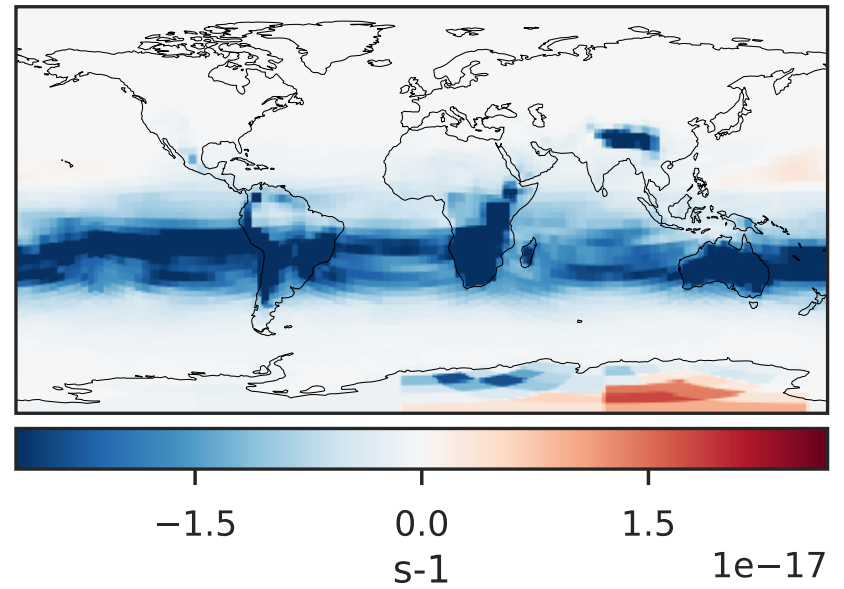
GCHP_14.2.0 (Dev)
c24



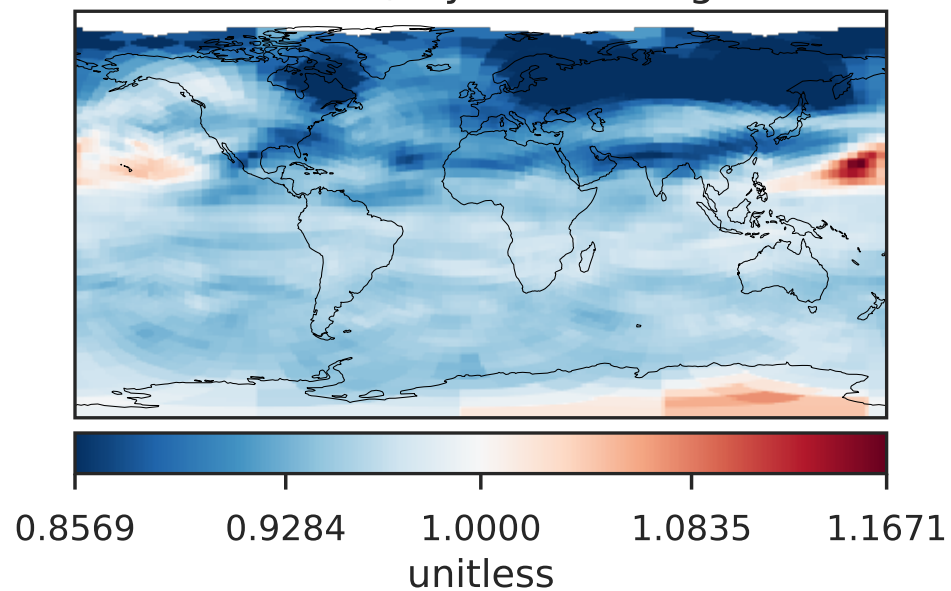
Difference (1x1.25)
Dev - Ref, Dynamic Range



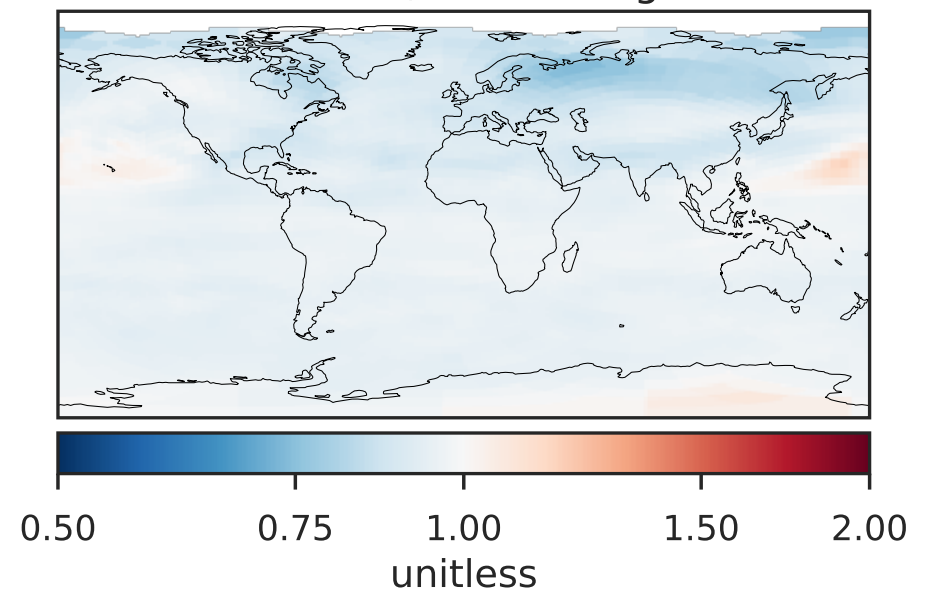
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

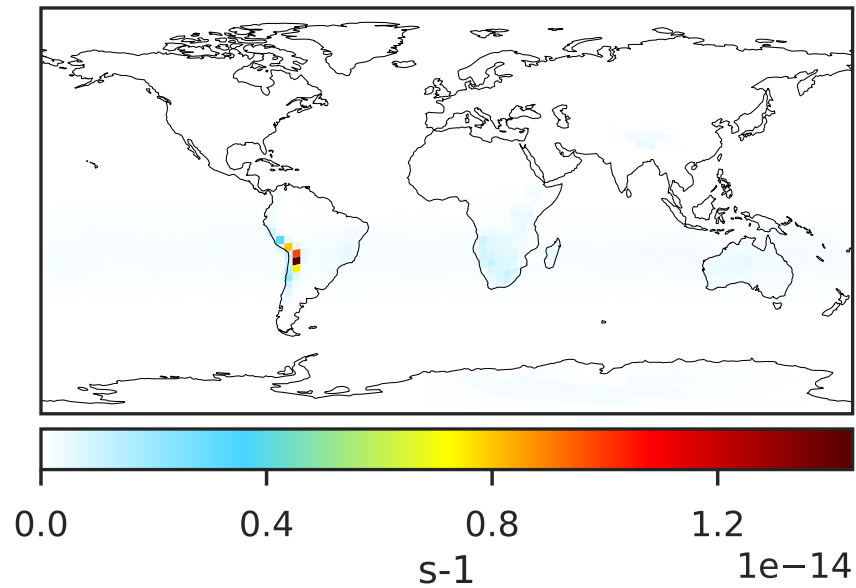


Ratio (1x1.25)
Dev/Ref, Fixed Range

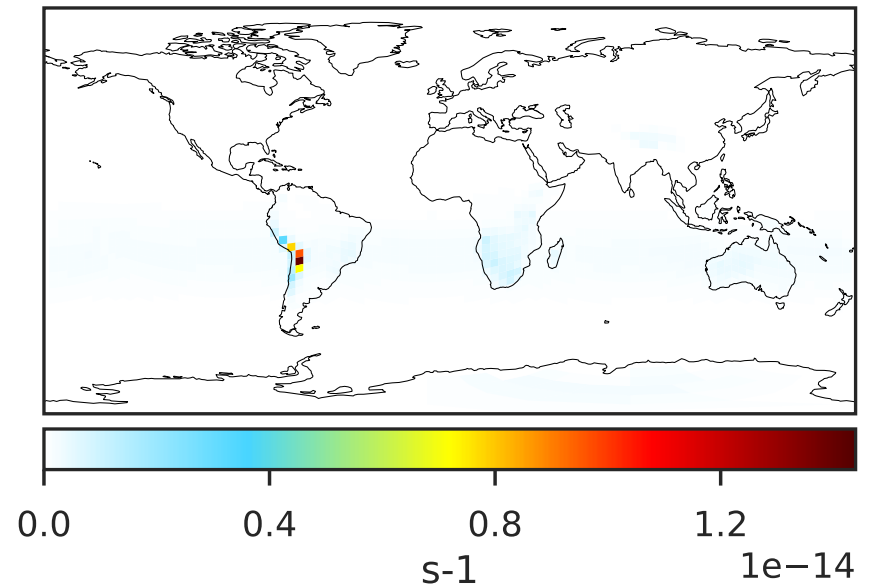


Jval_CFC11 (Jan2019)

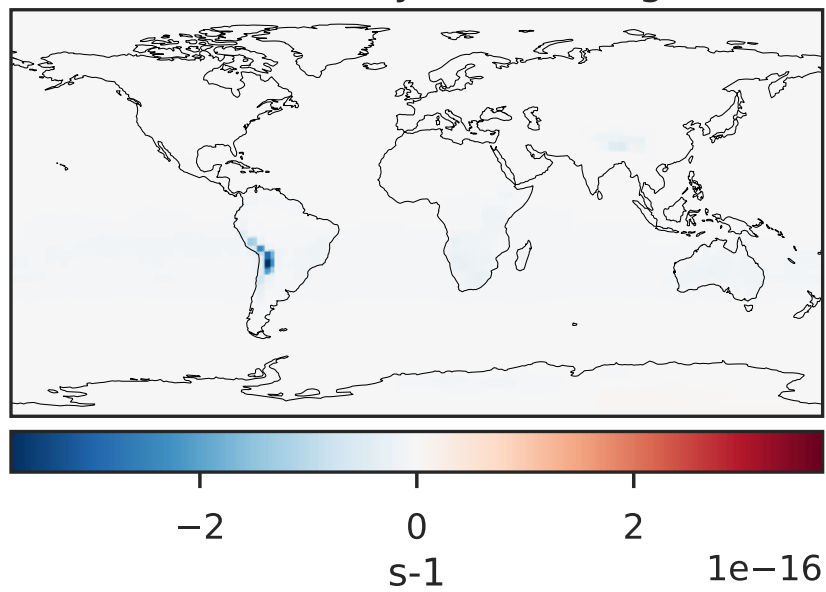
GCHP_14.0.0 (Ref)
c24



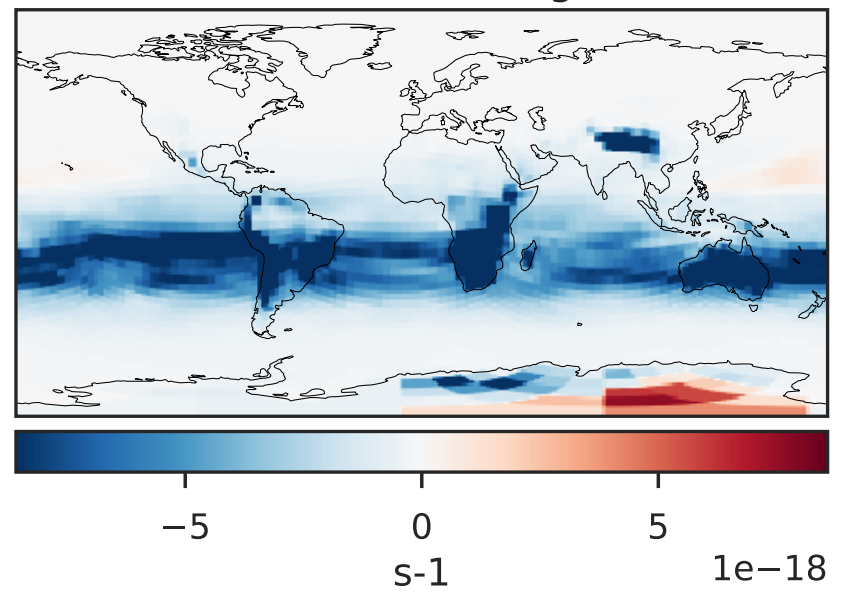
GCHP_14.2.0 (Dev)
c24



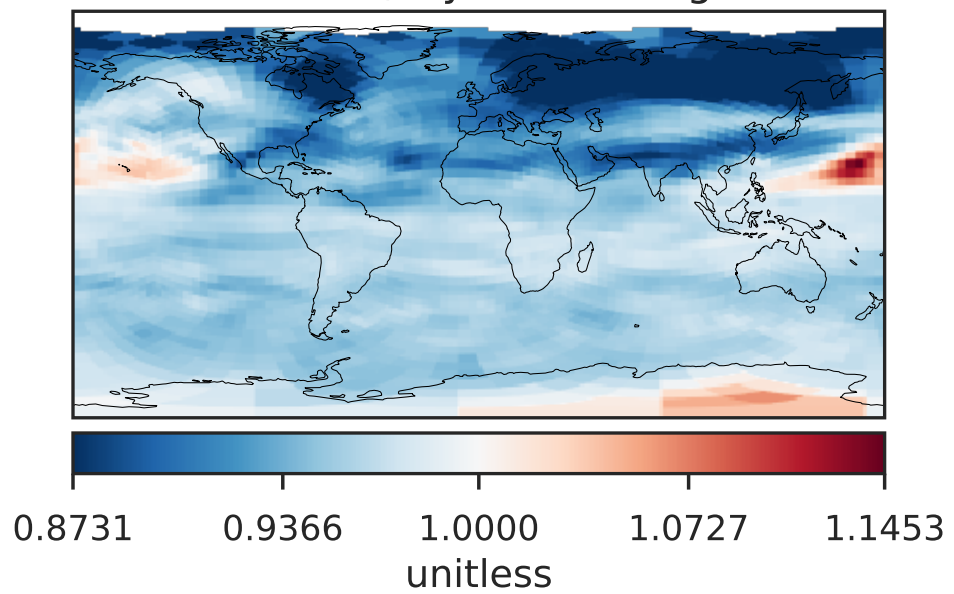
Difference (1x1.25)
Dev - Ref, Dynamic Range



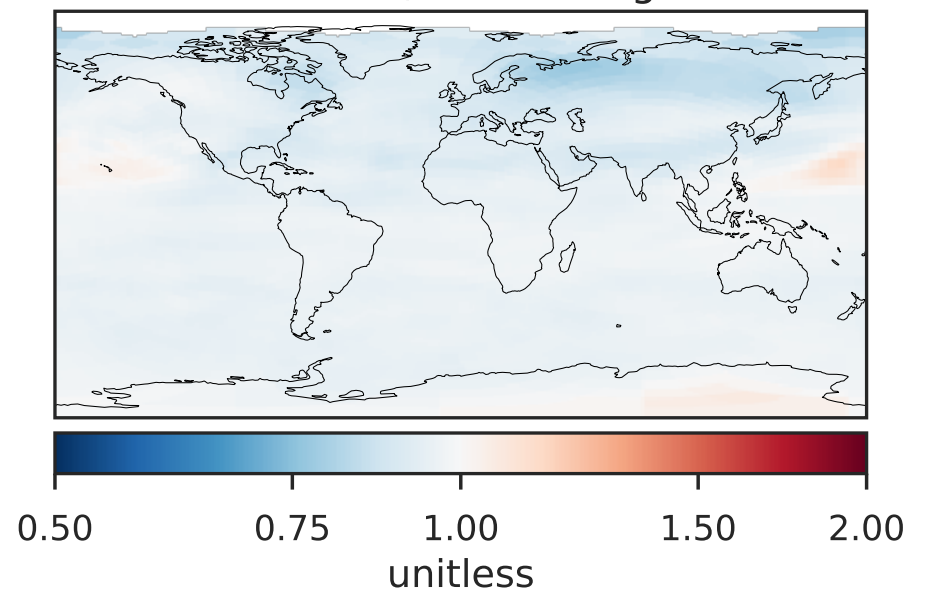
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

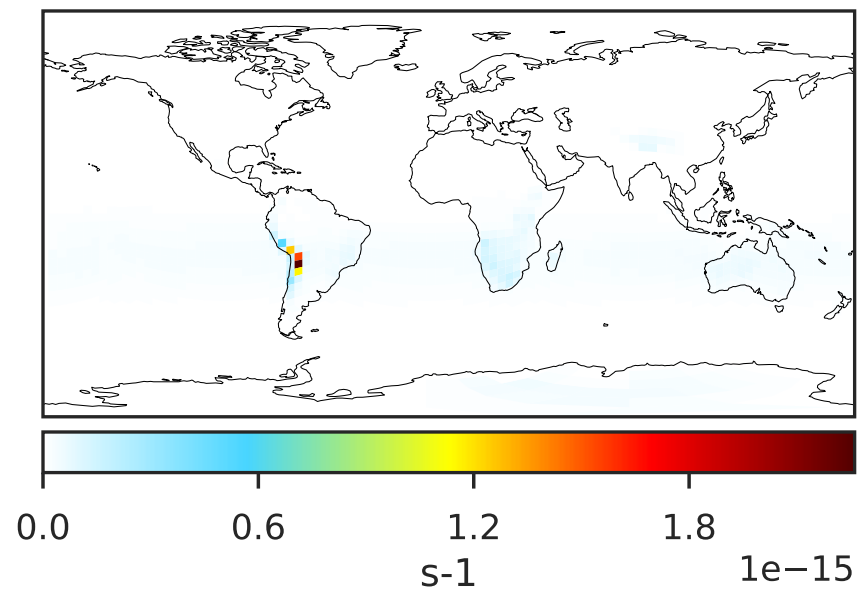


Ratio (1x1.25)
Dev/Ref, Fixed Range

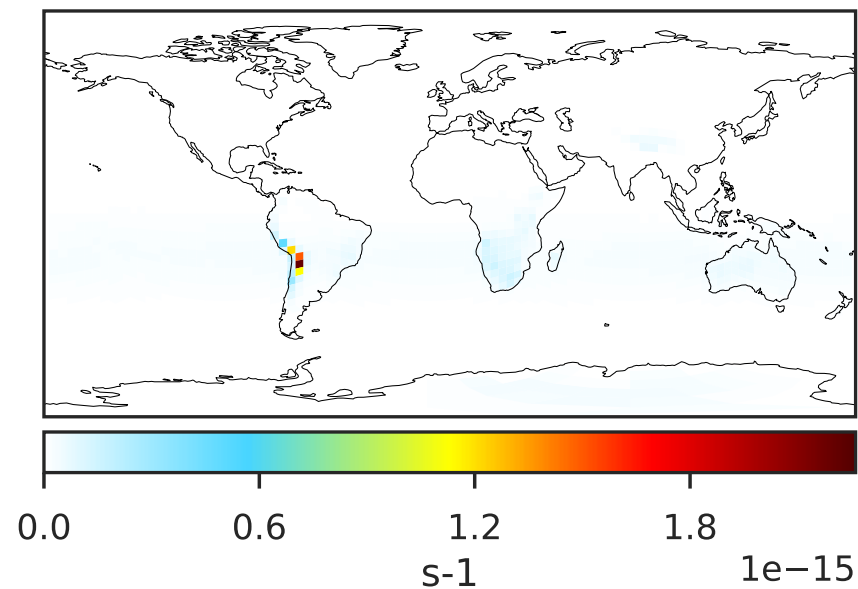


Jval_CFC113 (Jan2019)

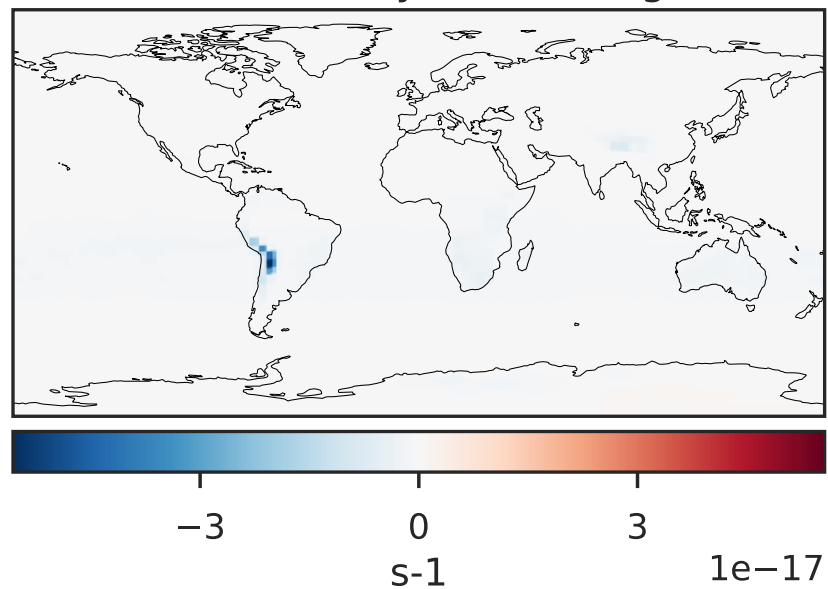
GCHP_14.0.0 (Ref)
c24



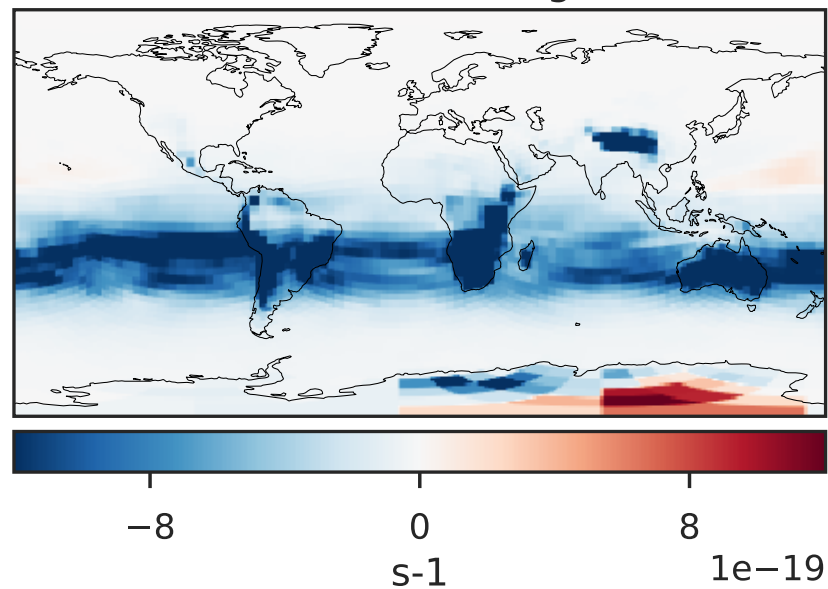
GCHP_14.2.0 (Dev)
c24



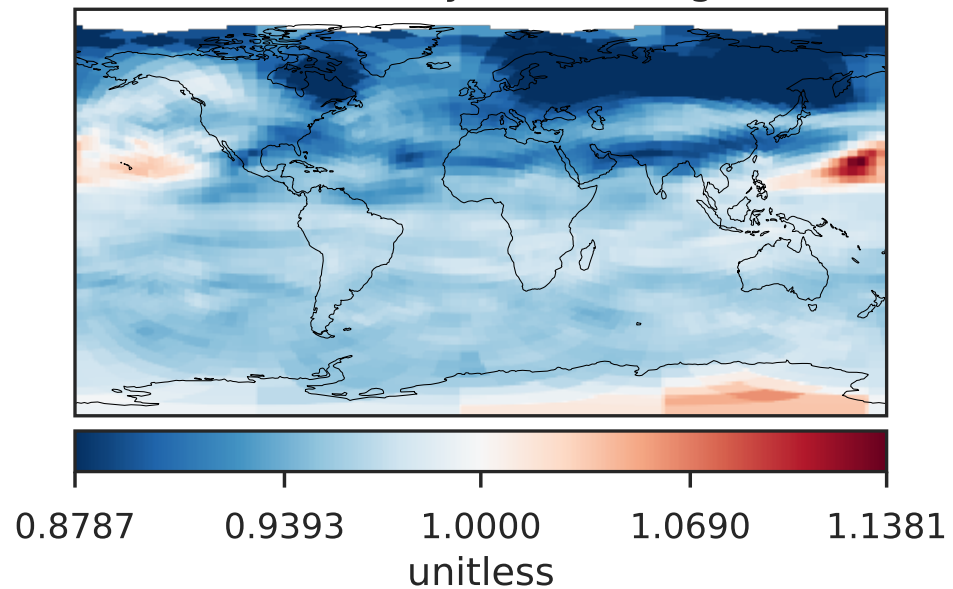
Difference (1x1.25)
Dev - Ref, Dynamic Range



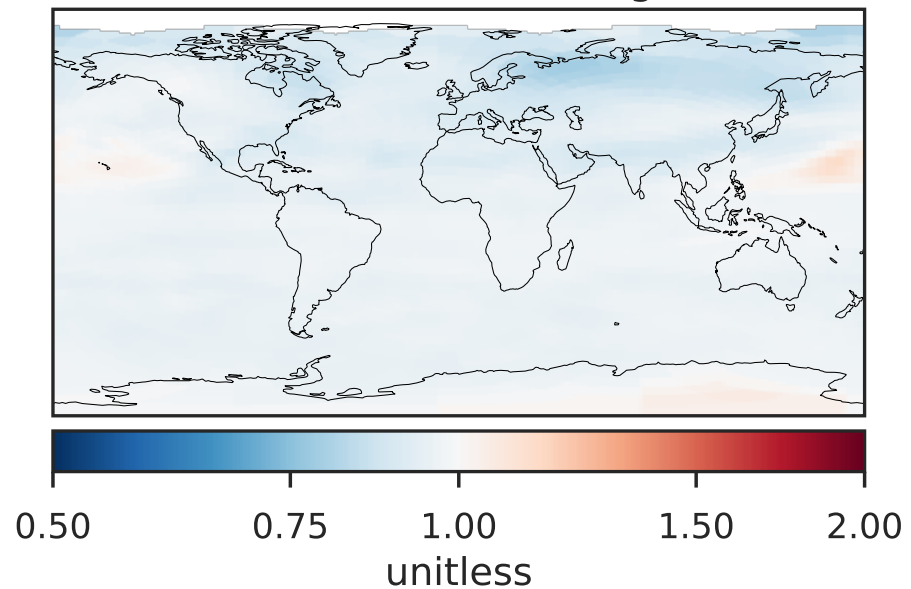
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

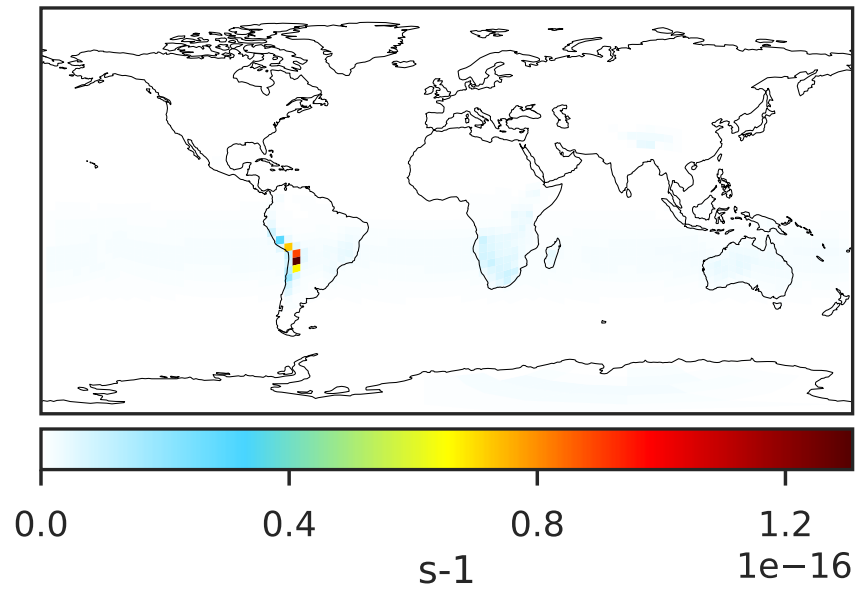


Ratio (1x1.25)
Dev/Ref, Fixed Range

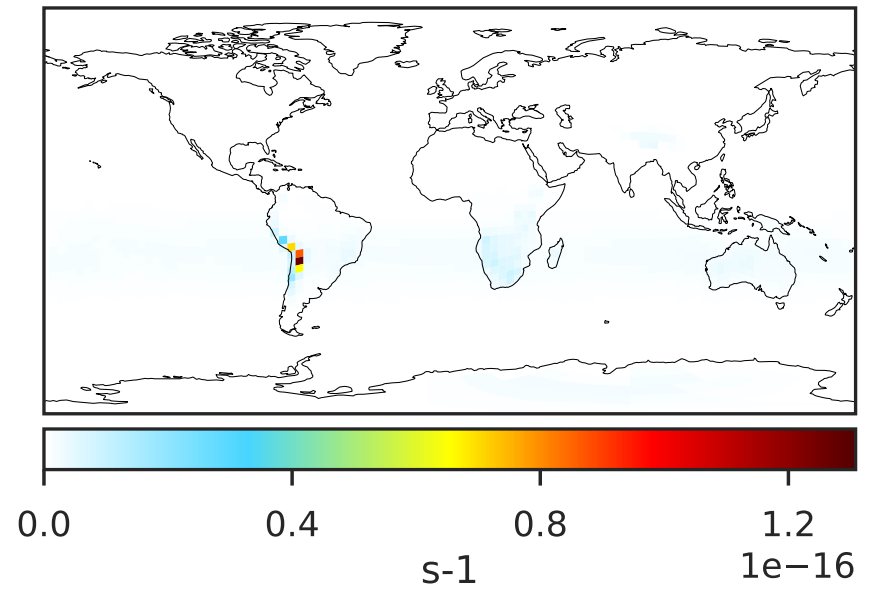


Jval_CFC114 (Jan2019)

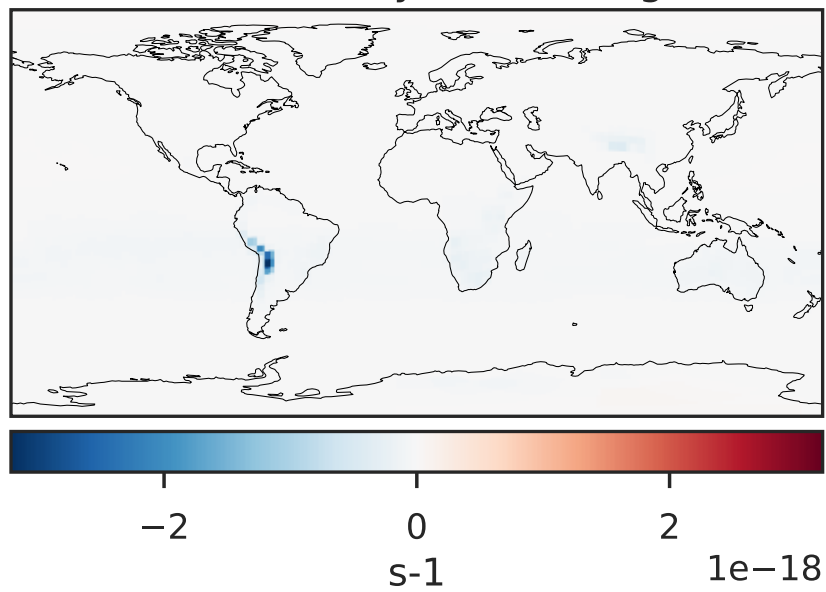
GCHP_14.0.0 (Ref)
c24



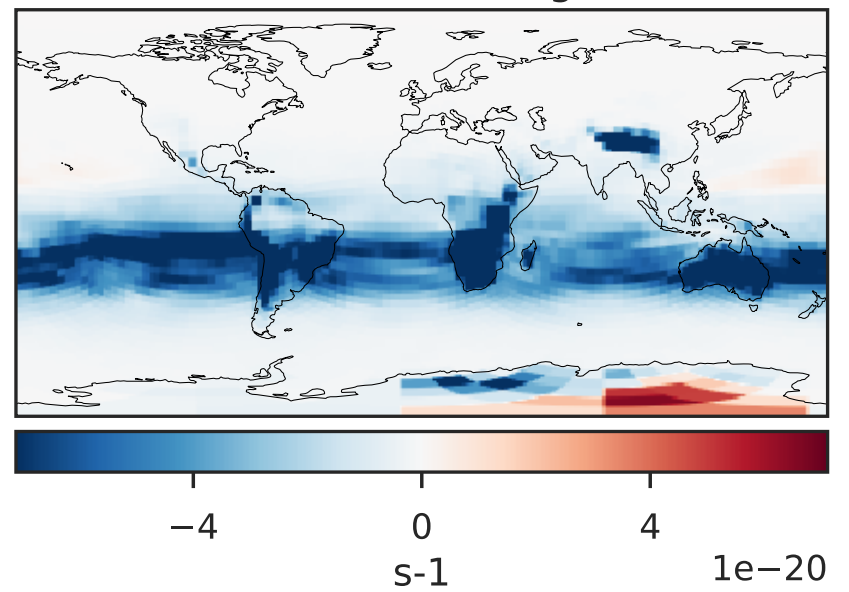
GCHP_14.2.0 (Dev)
c24



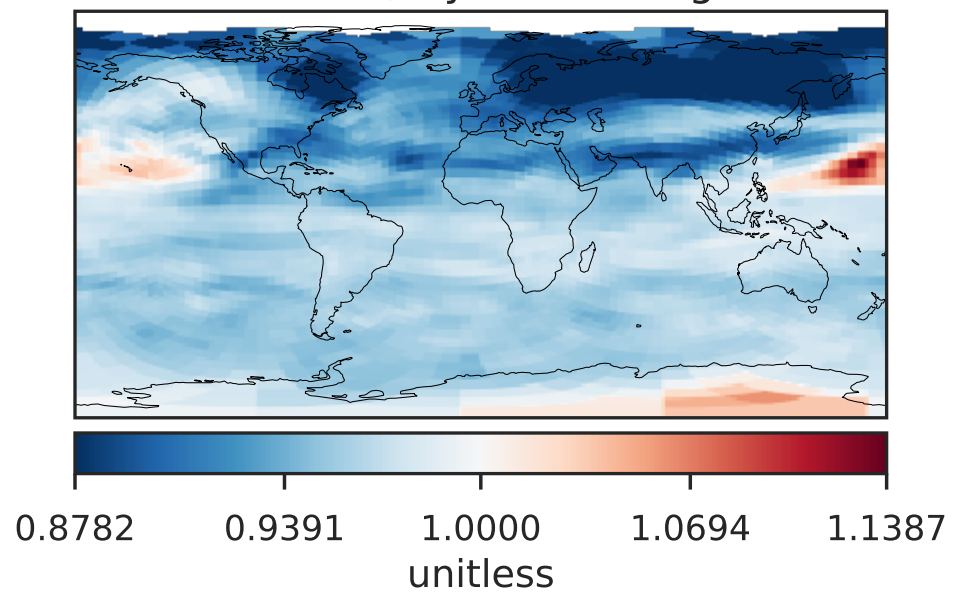
Difference (1x1.25)
Dev - Ref, Dynamic Range



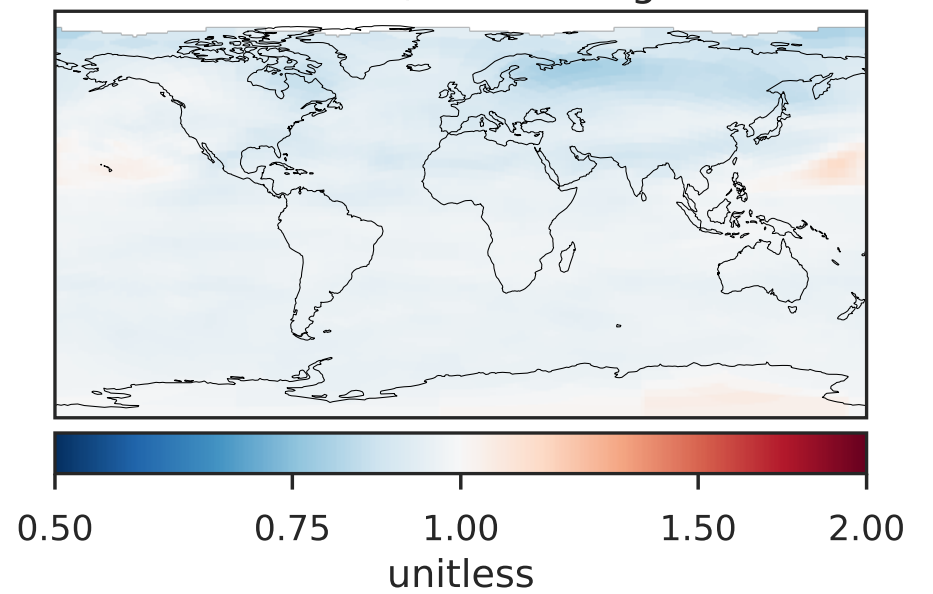
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

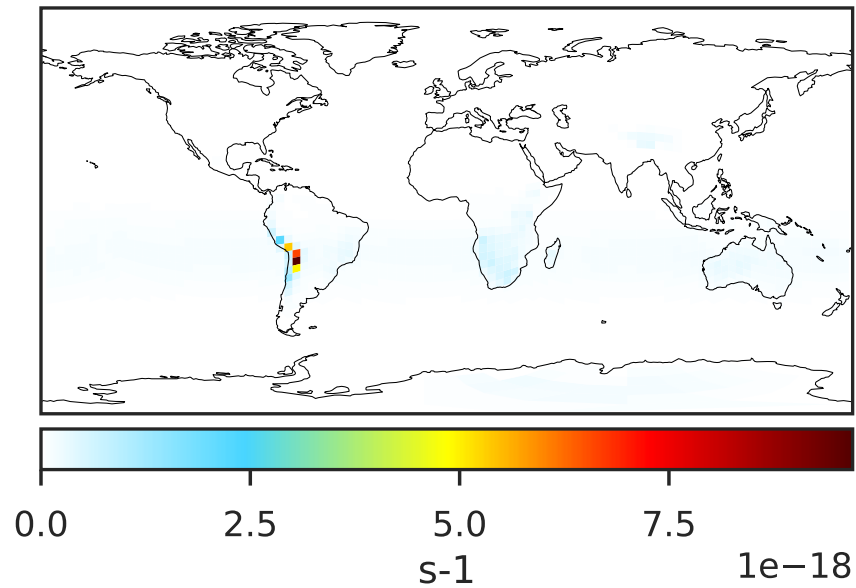


Ratio (1x1.25)
Dev/Ref, Fixed Range

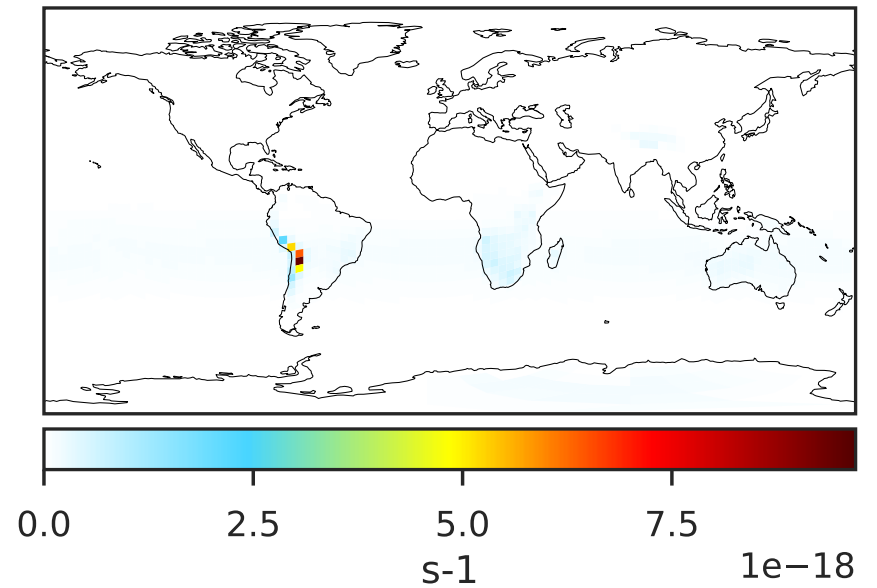


Jval_CFC115 (Jan2019)

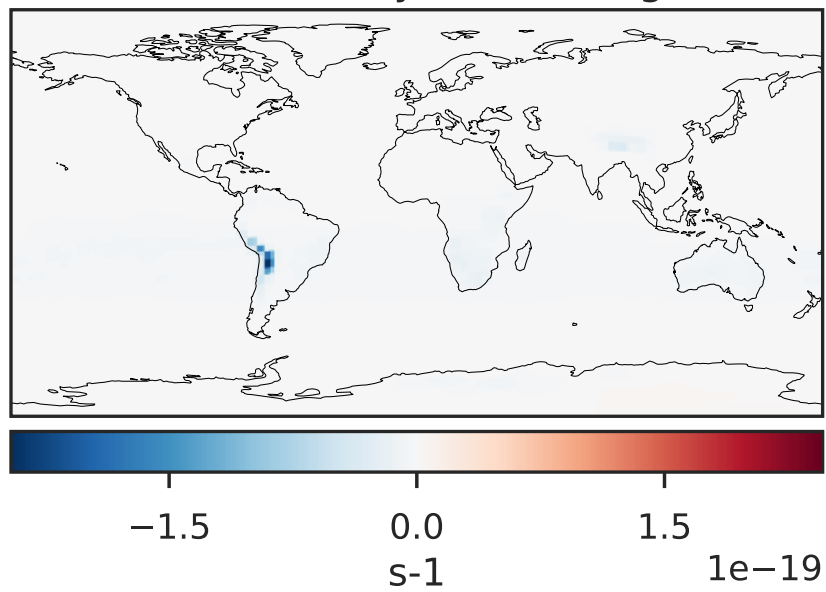
GCHP_14.0.0 (Ref)
c24



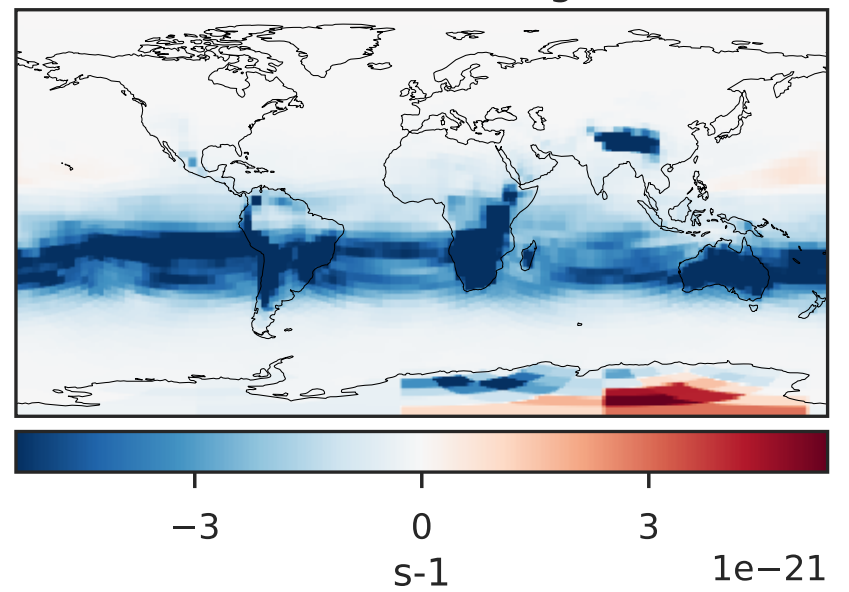
GCHP_14.2.0 (Dev)
c24



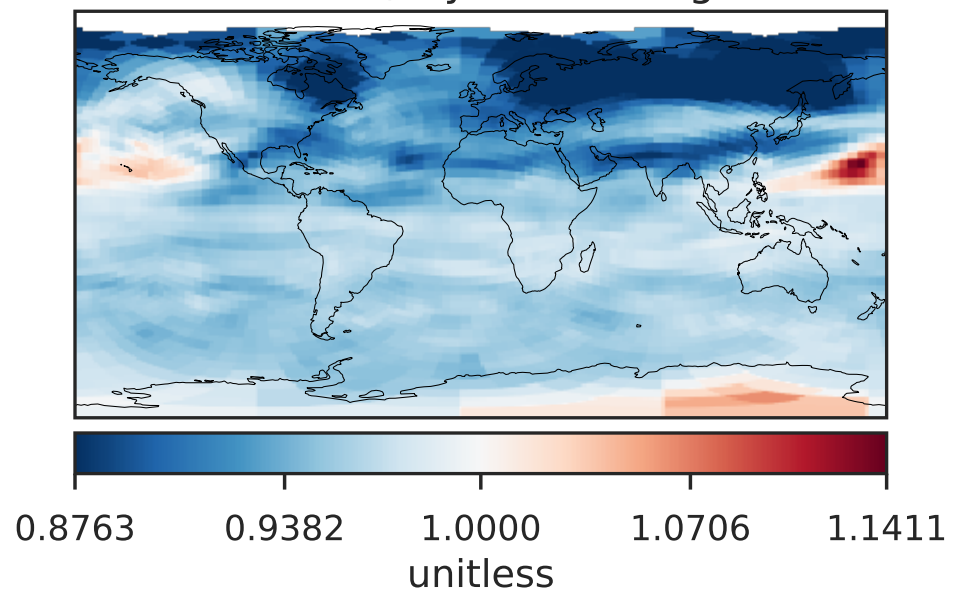
Difference (1x1.25)
Dev - Ref, Dynamic Range



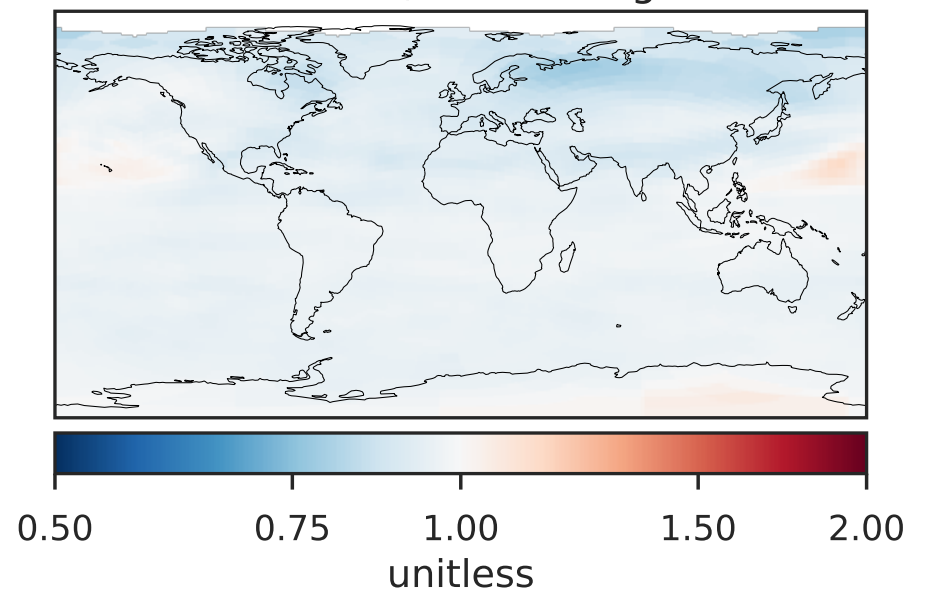
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

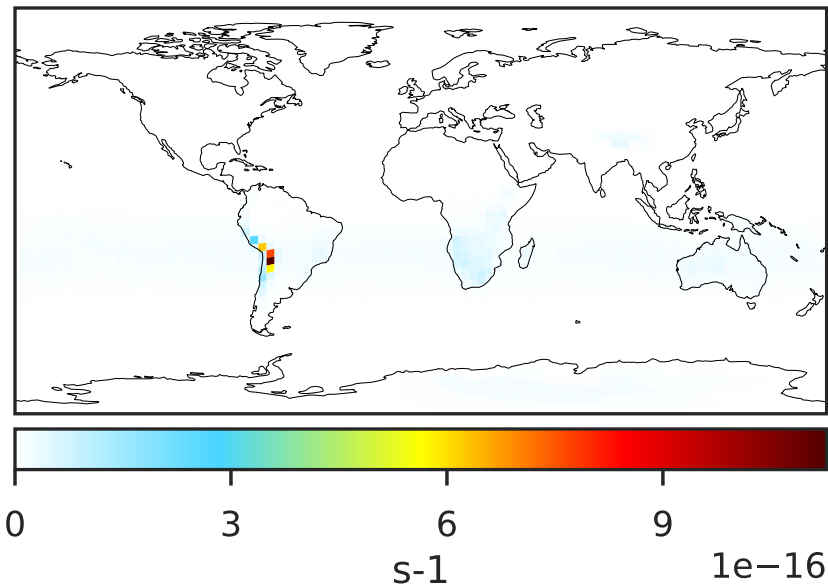


Ratio (1x1.25)
Dev/Ref, Fixed Range

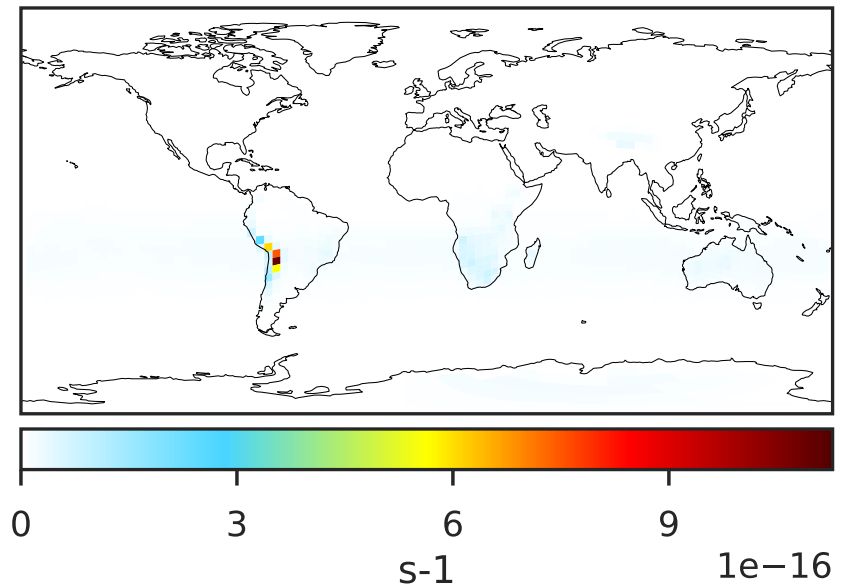


Jval_CFC12 (Jan2019)

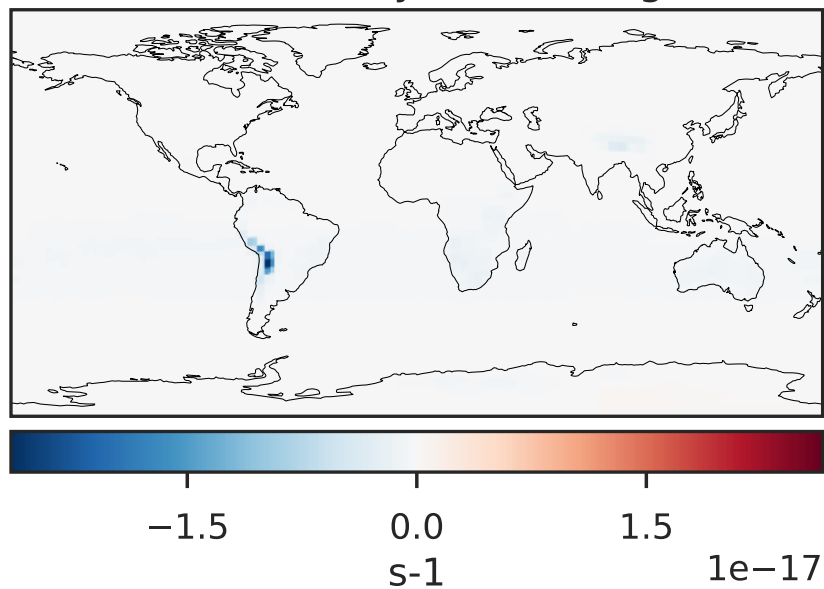
GCHP_14.0.0 (Ref)
c24



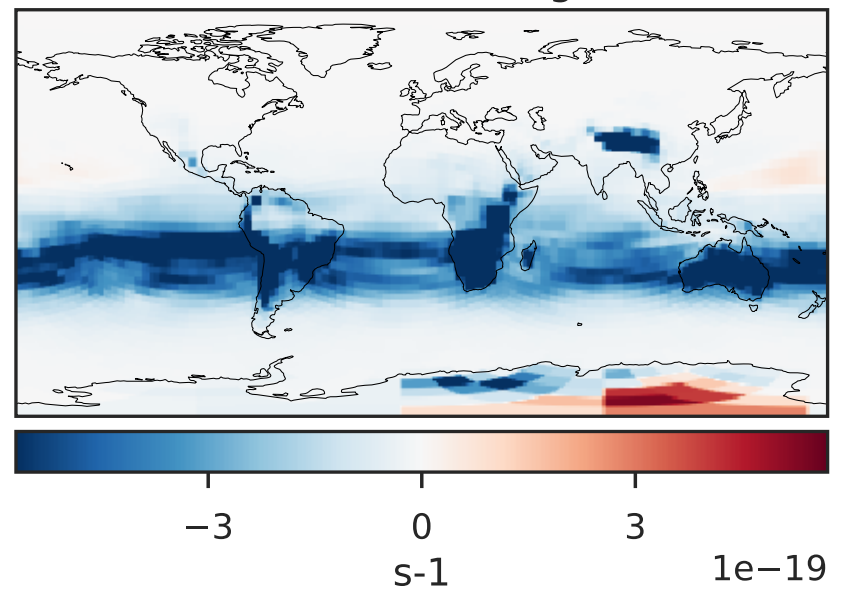
GCHP_14.2.0 (Dev)
c24



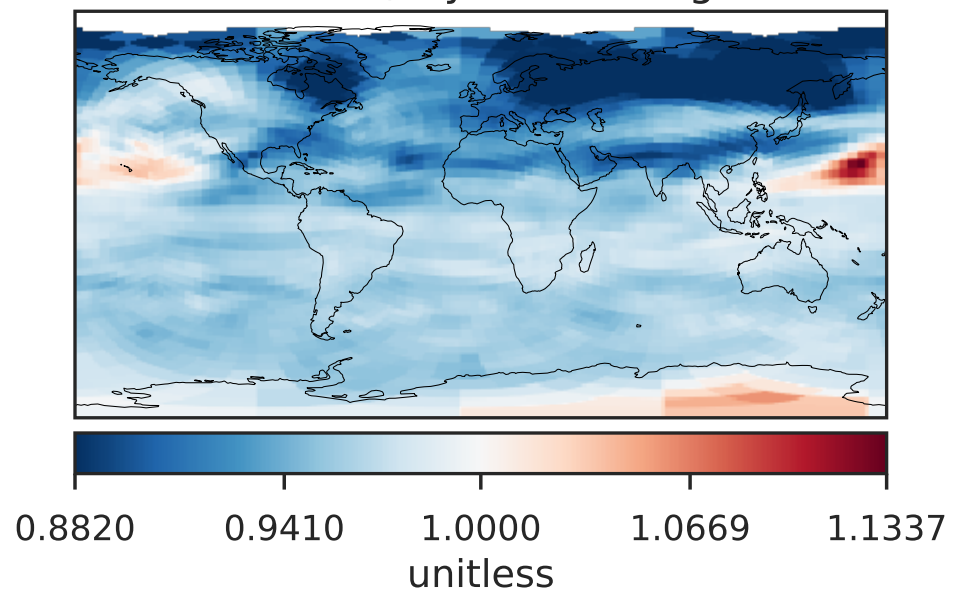
Difference (1x1.25)
Dev - Ref, Dynamic Range



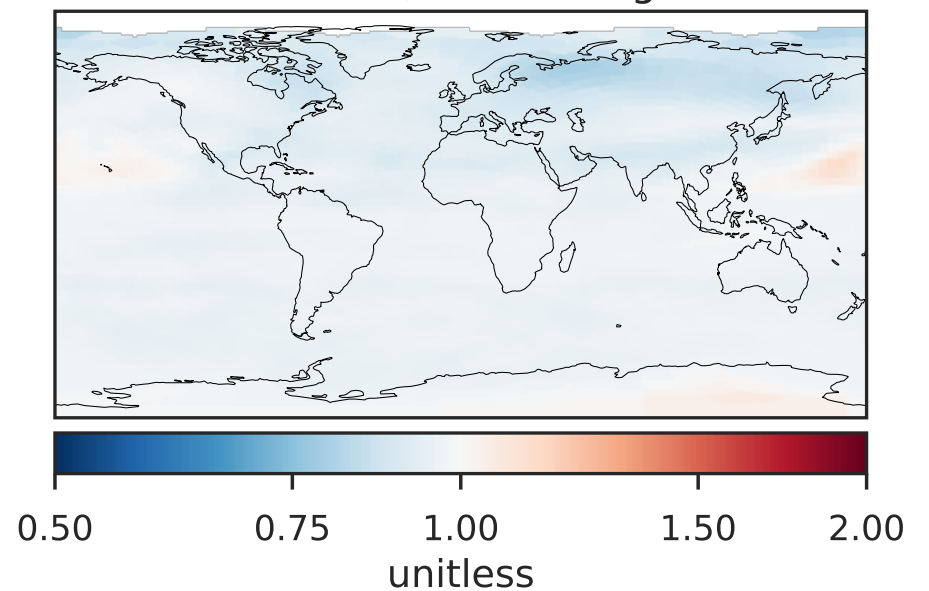
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

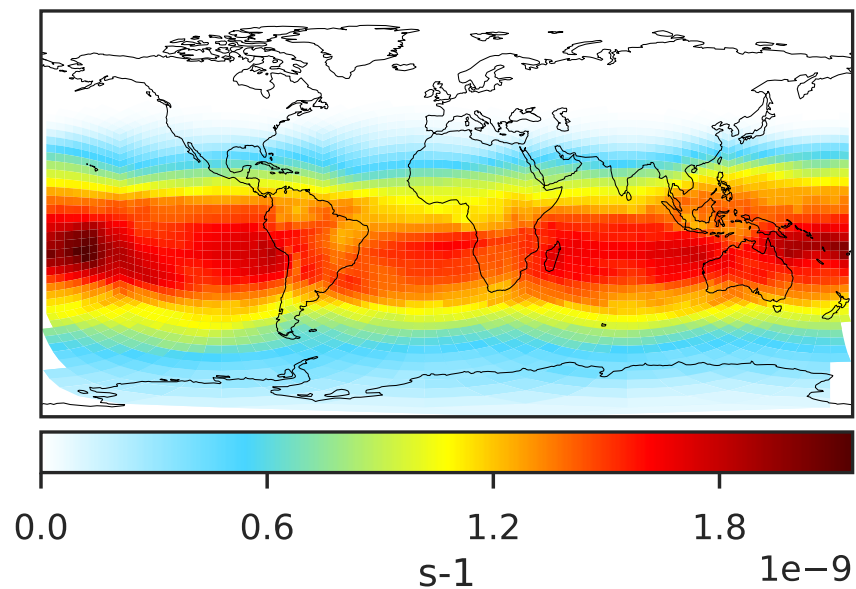


Ratio (1x1.25)
Dev/Ref, Fixed Range

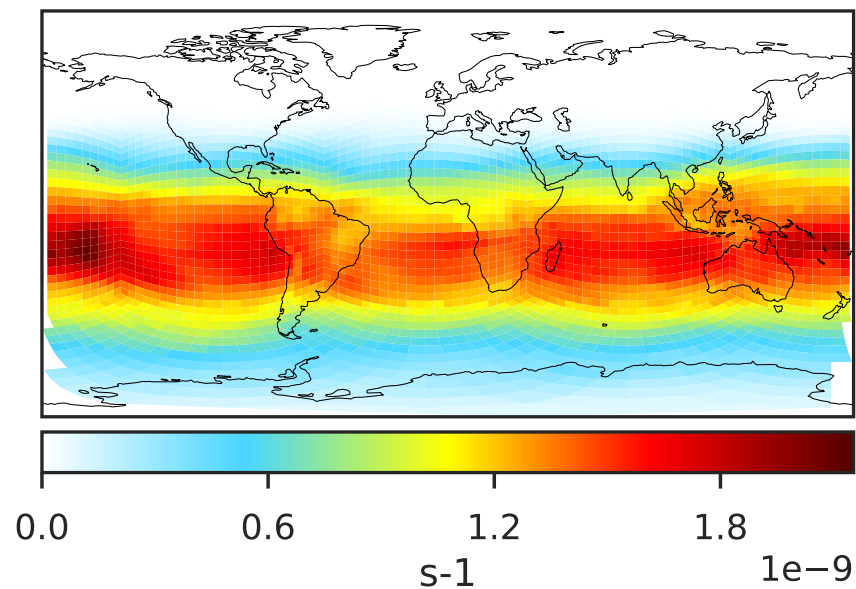


Jval_CH2Br2 (Jan2019)

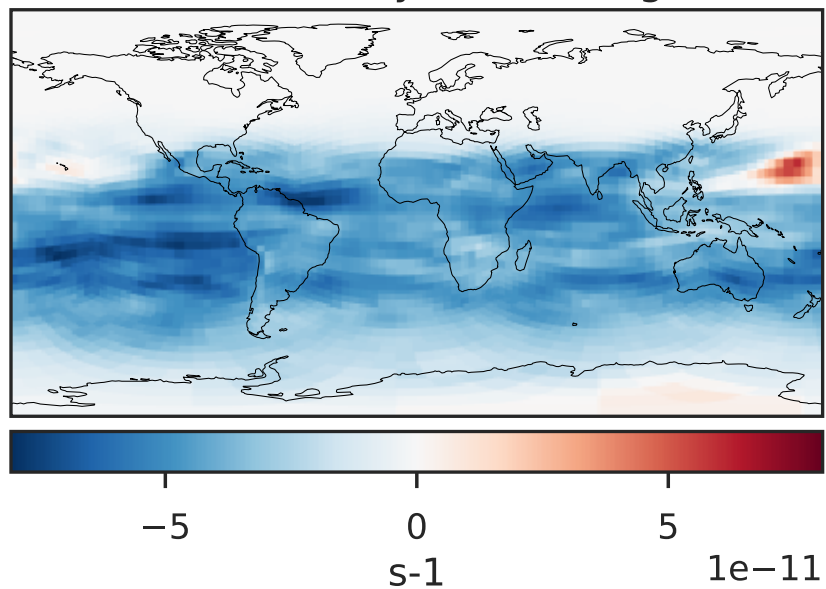
GCHP_14.0.0 (Ref)
c24



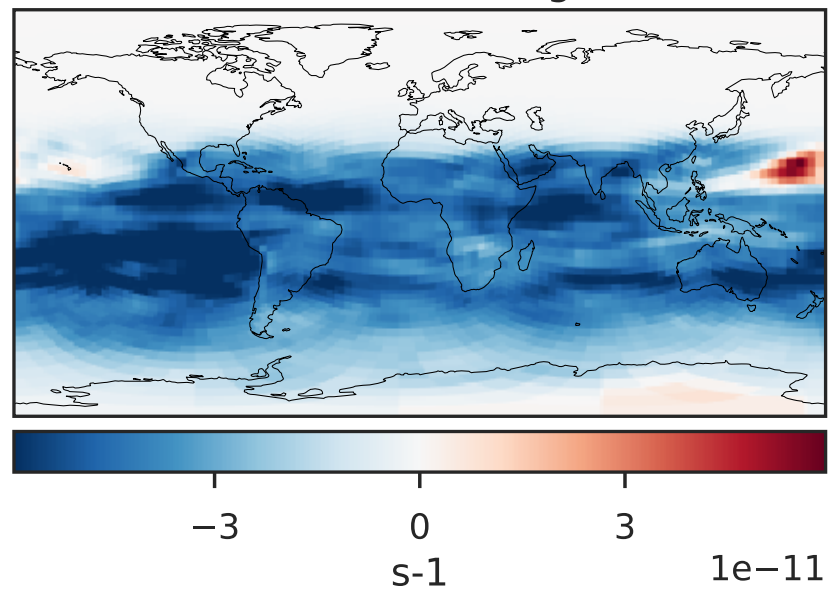
GCHP_14.2.0 (Dev)
c24



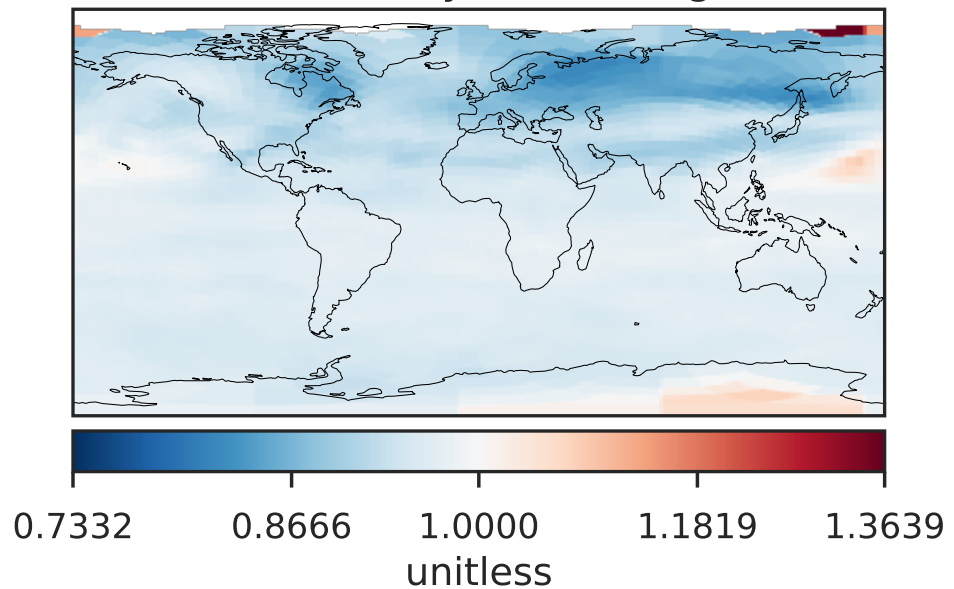
Difference (1x1.25)
Dev - Ref, Dynamic Range



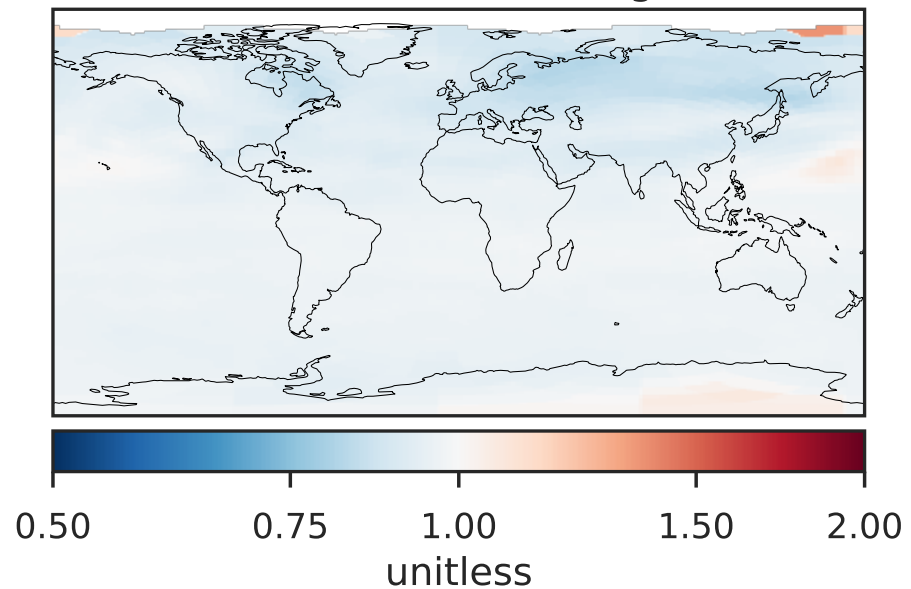
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

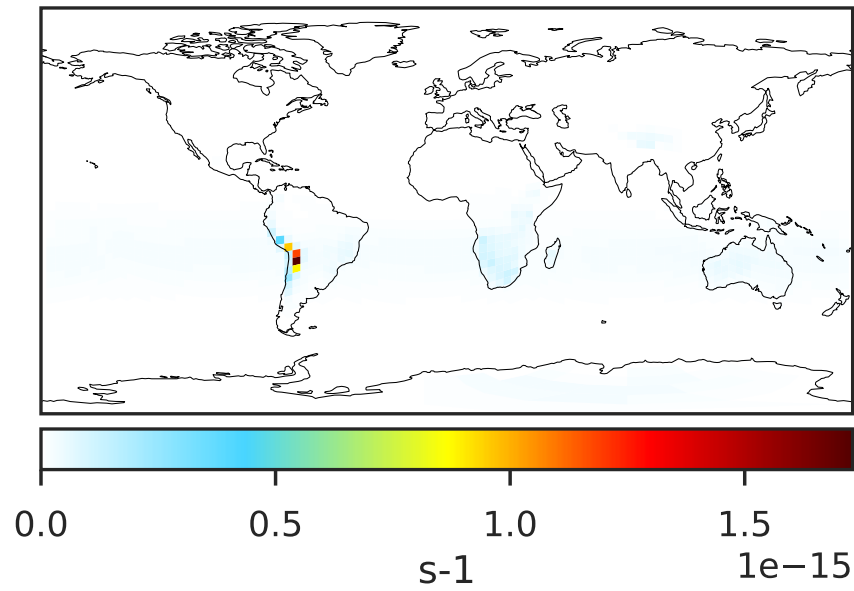


Ratio (1x1.25)
Dev/Ref, Fixed Range

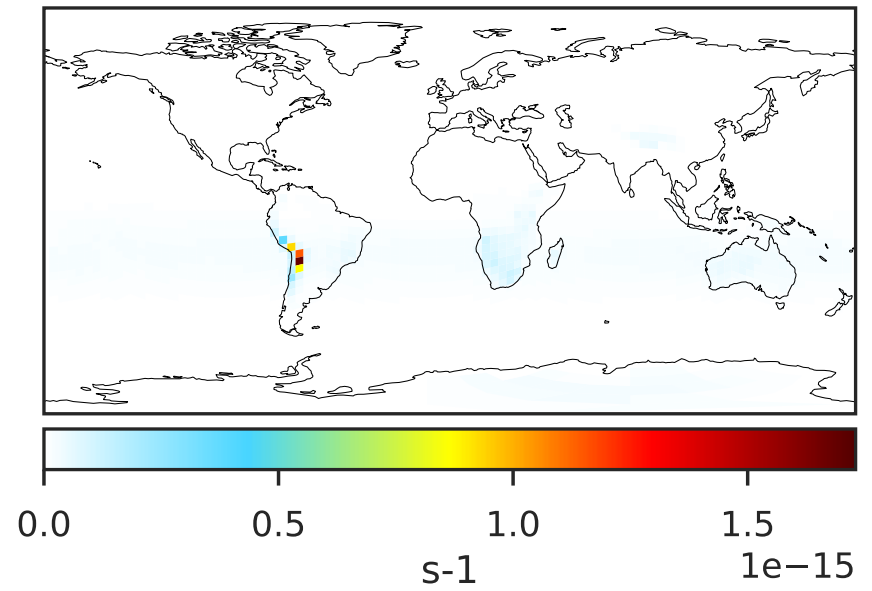


Jval_CH2Cl2 (Jan2019)

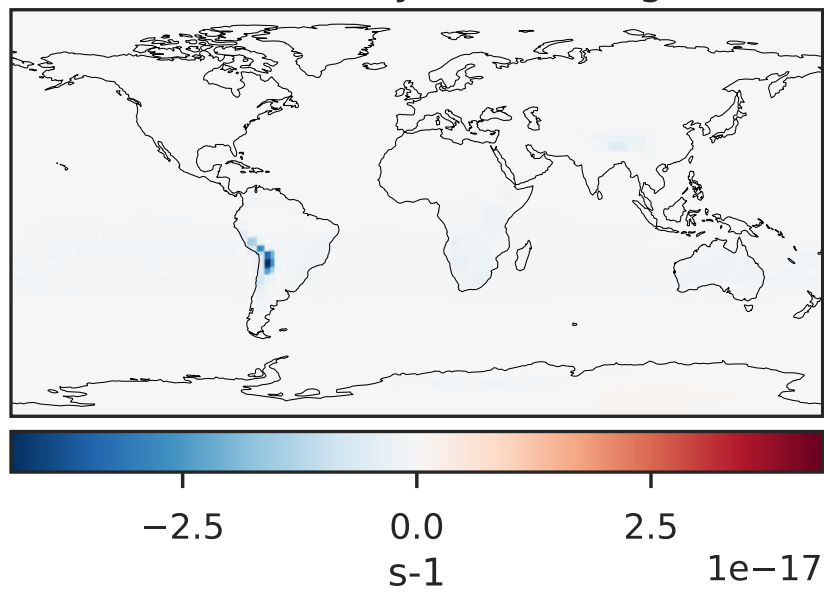
GCHP_14.0.0 (Ref)
c24



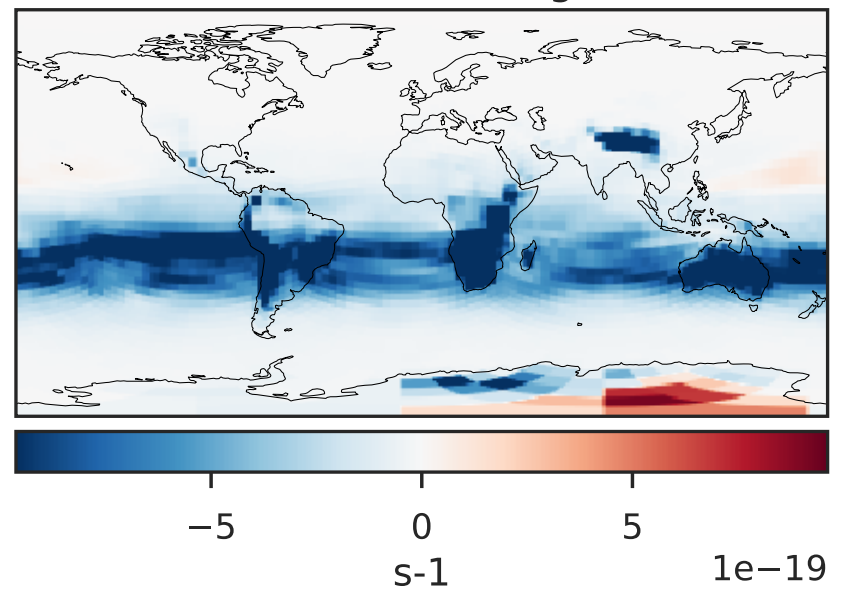
GCHP_14.2.0 (Dev)
c24



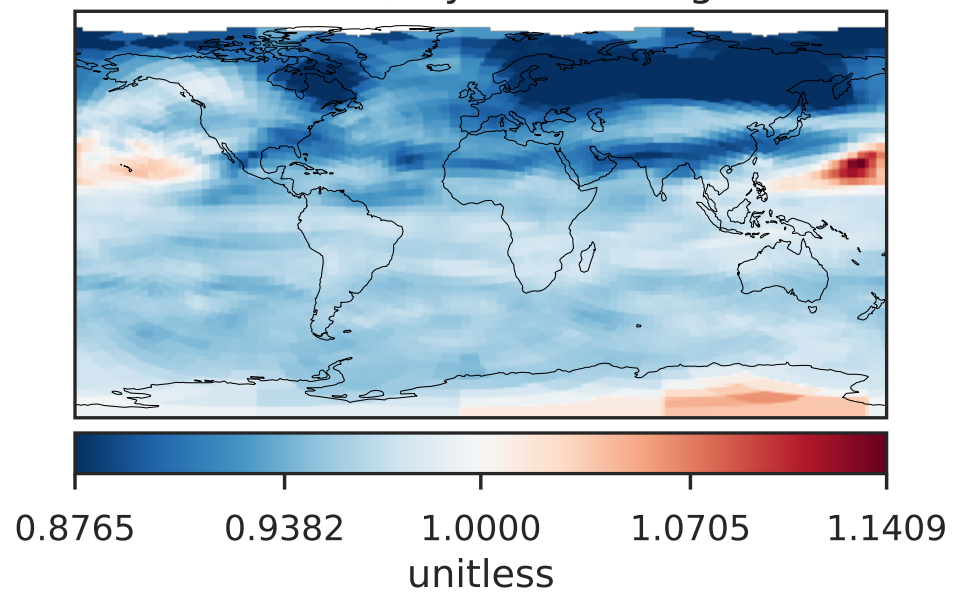
Difference (1x1.25)
Dev - Ref, Dynamic Range



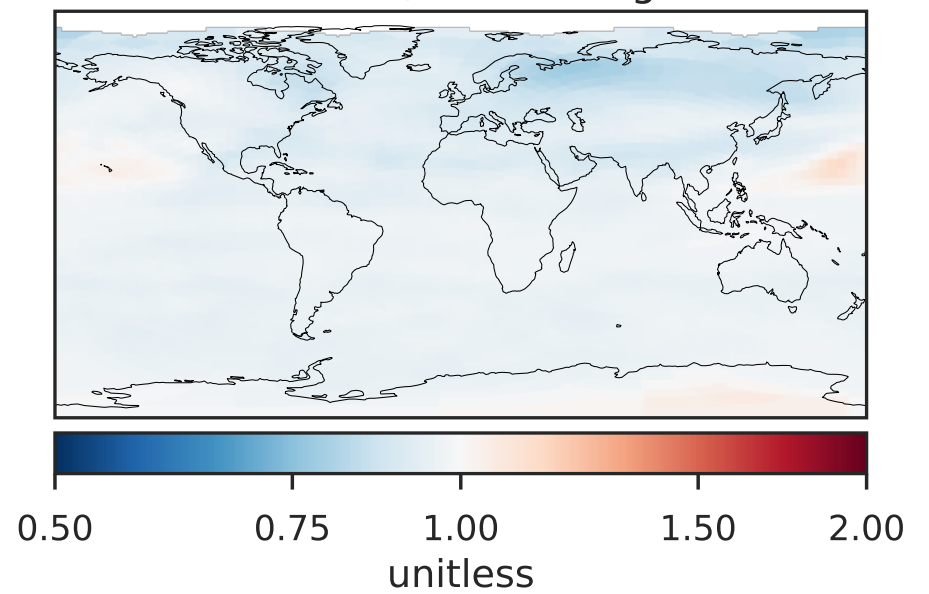
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

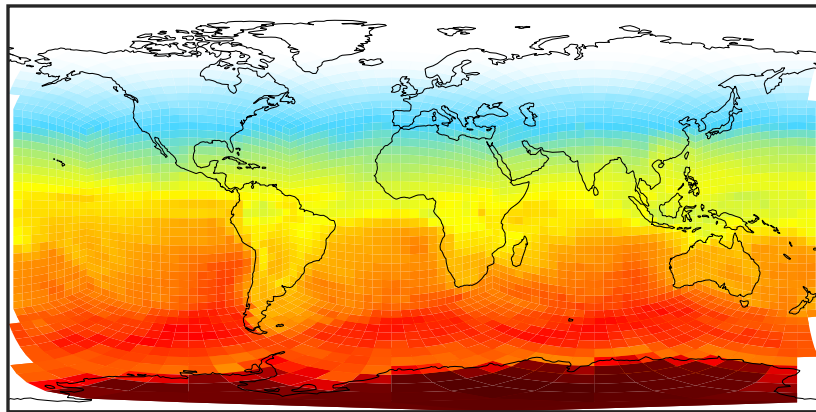


Ratio (1x1.25)
Dev/Ref, Fixed Range



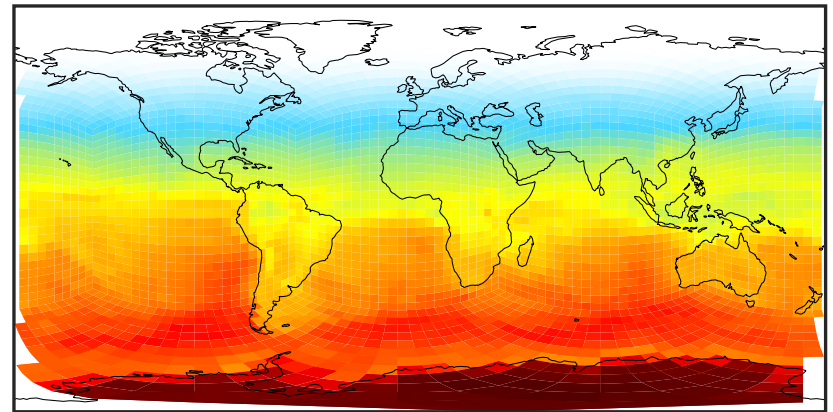
Jval_CH2I2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



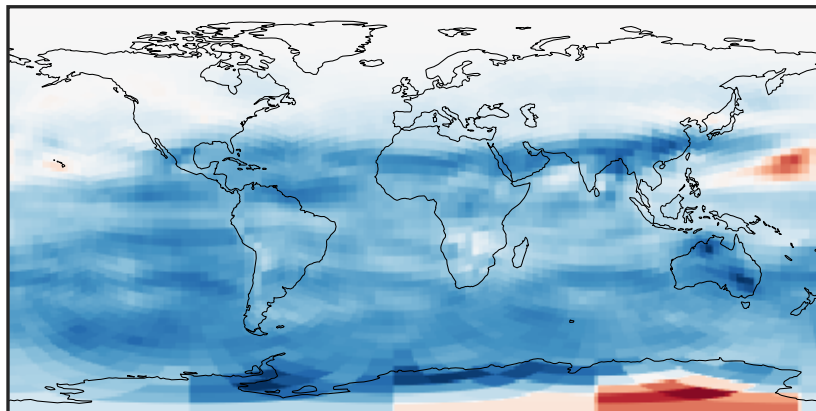
0.0000 0.0025 0.0050 0.0075
s-1

GCHP_14.2.0 (Dev)
c24



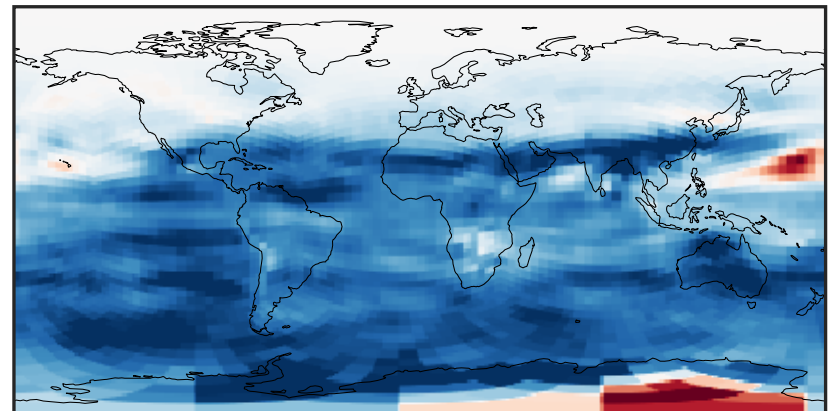
0.0000 0.0025 0.0050 0.0075
s-1

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



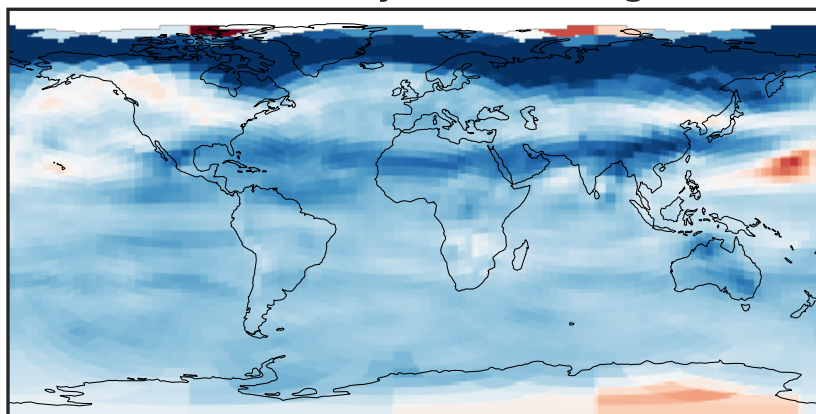
-2.5 0.0 2.5
s-1 1e-5

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



-1.5 0.0 1.5
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99029 0.99515 1.00000 1.00490 1.00980
unitless

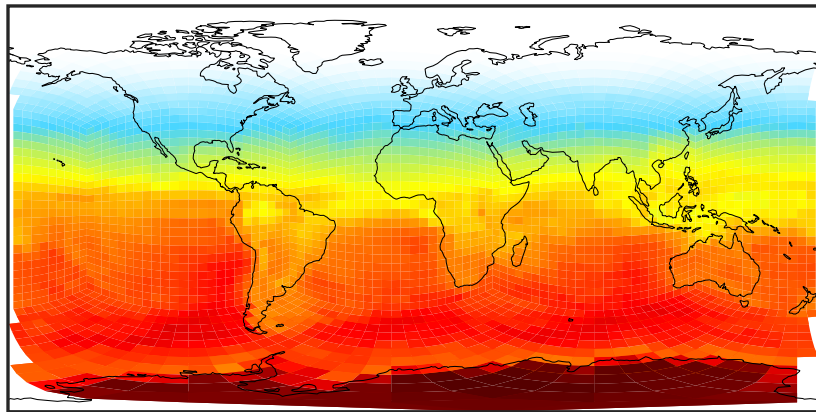
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

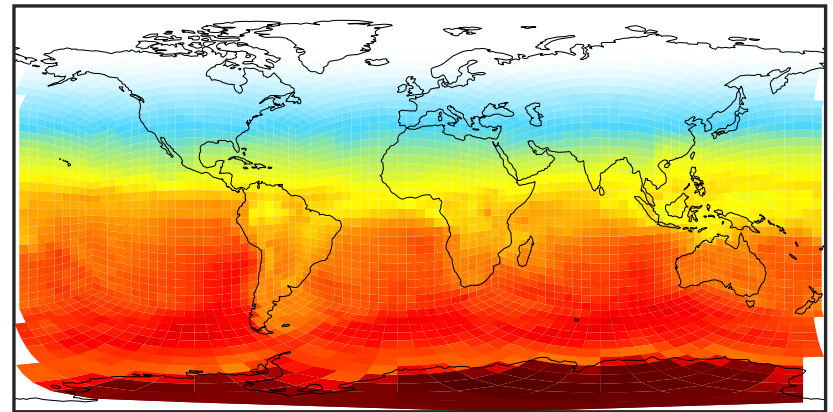
Jval_CH2IBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



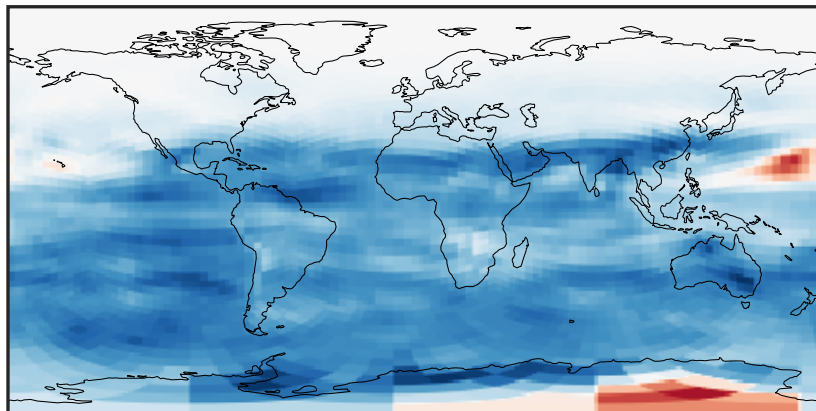
0.00000 0.00015 0.00030 0.00045
s-1

GCHP_14.2.0 (Dev)
c24



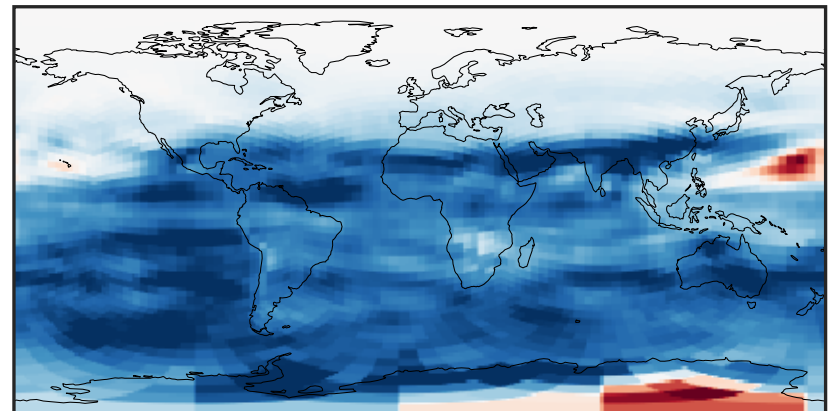
0.00000 0.00015 0.00030 0.00045
s-1

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



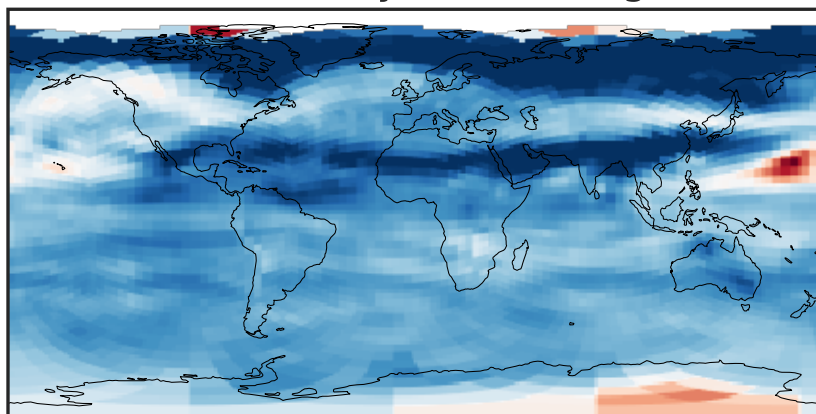
-2 0 2
s-1 1e-6

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



-1.5 0.0 1.5
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98912 0.99456 1.00000 1.00550 1.01100
unitless

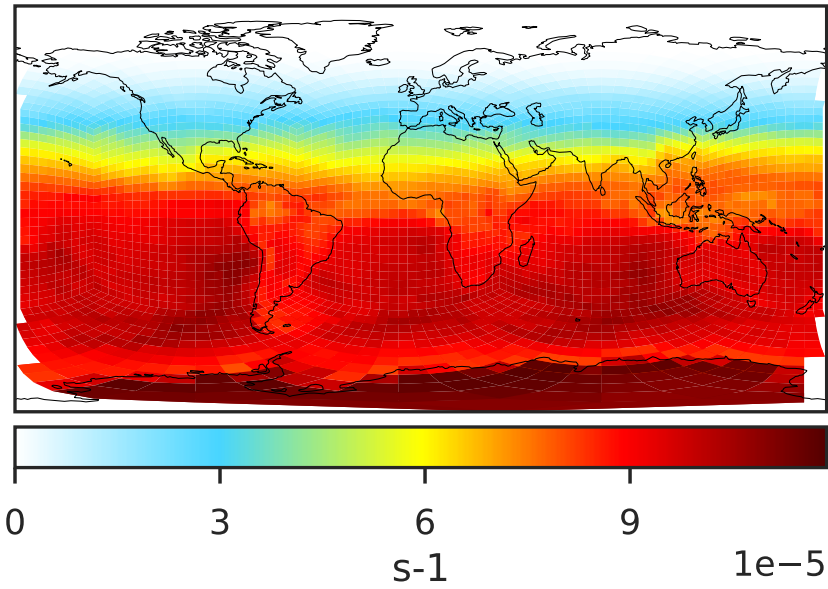
Ratio (1x1.25)
Dev/Ref, Fixed Range



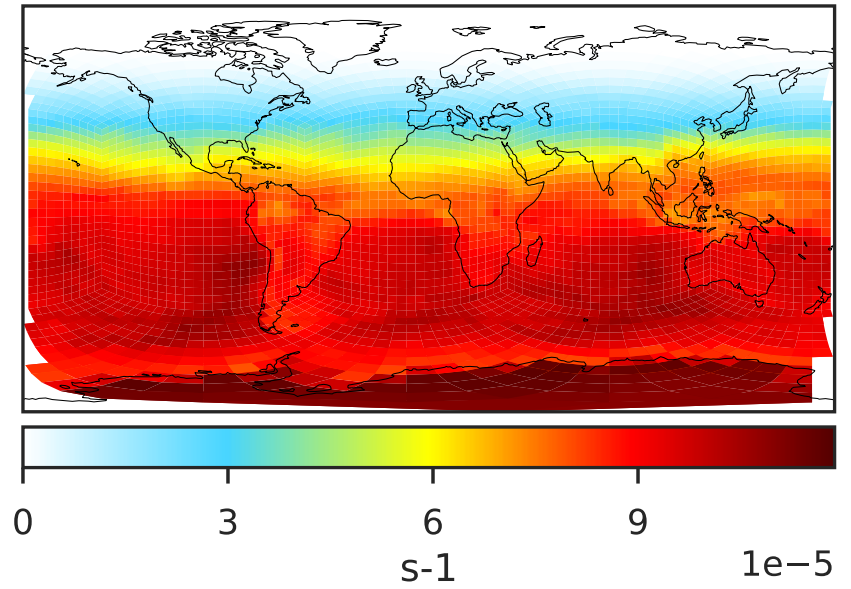
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CH2ICl (Jan2019)

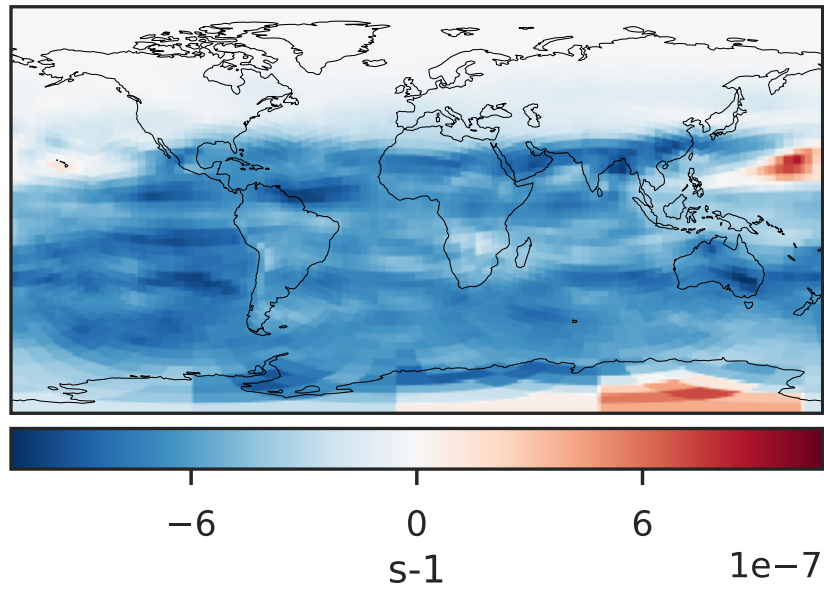
GCHP_14.0.0 (Ref)
c24



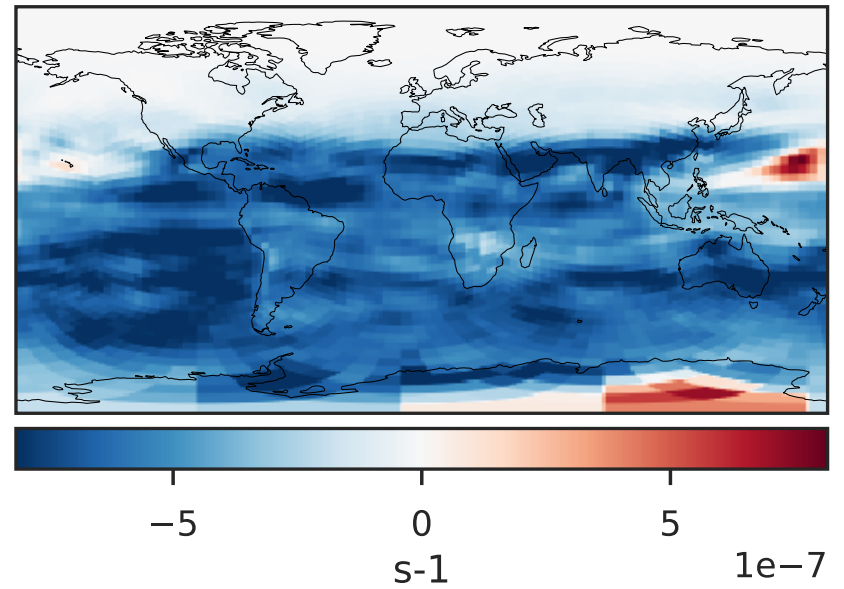
GCHP_14.2.0 (Dev)
c24



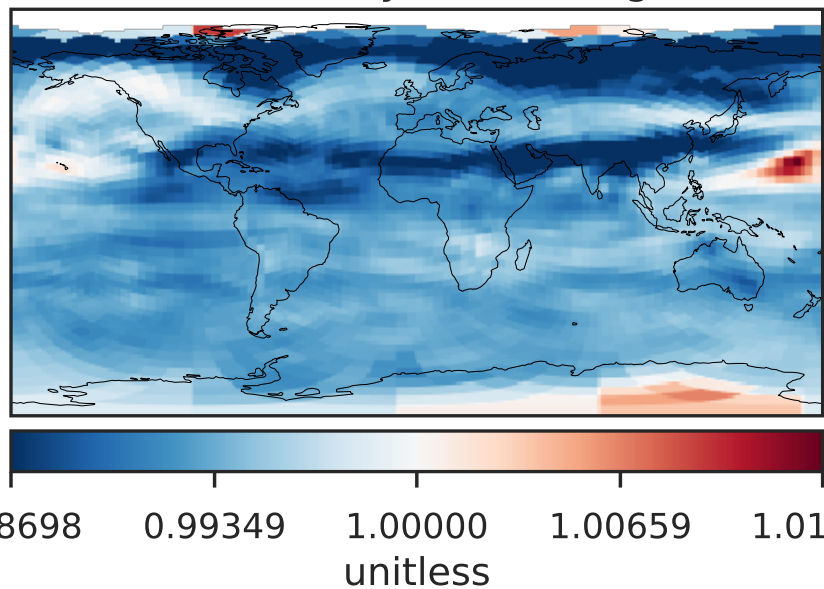
Difference (1x1.25)
Dev - Ref, Dynamic Range



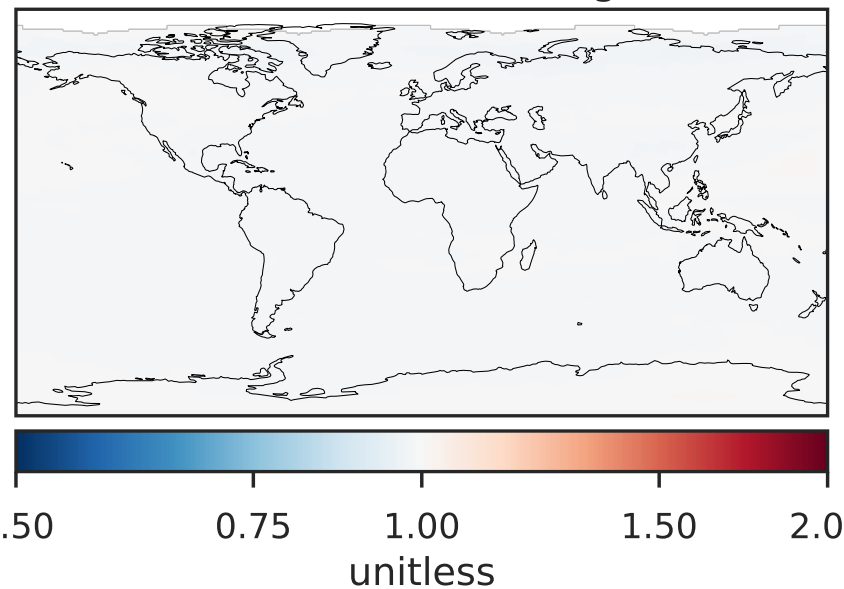
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

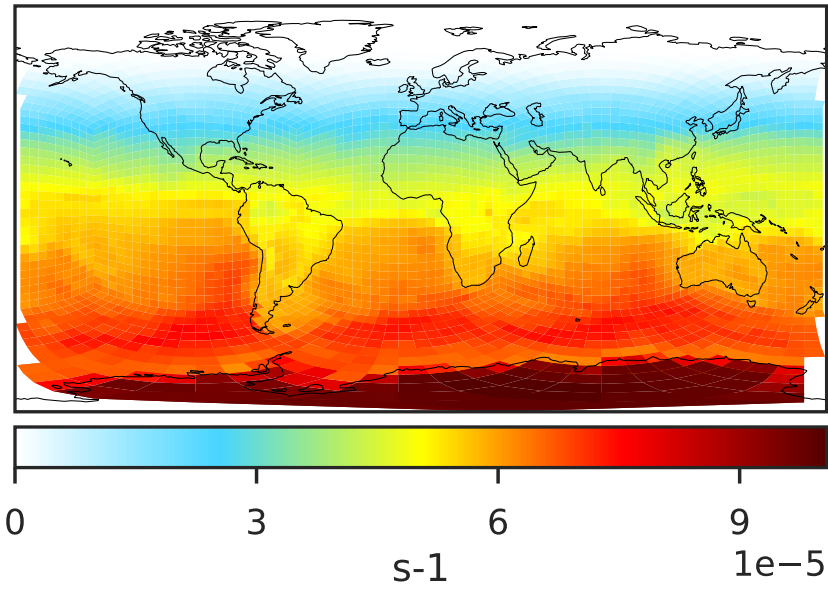


Ratio (1x1.25)
Dev/Ref, Fixed Range

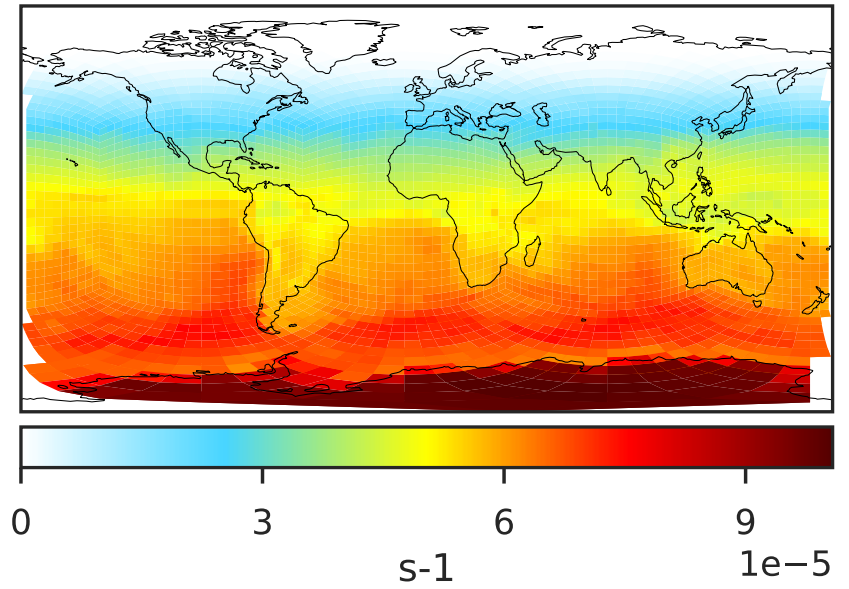


Jval_CH20 (Jan2019)

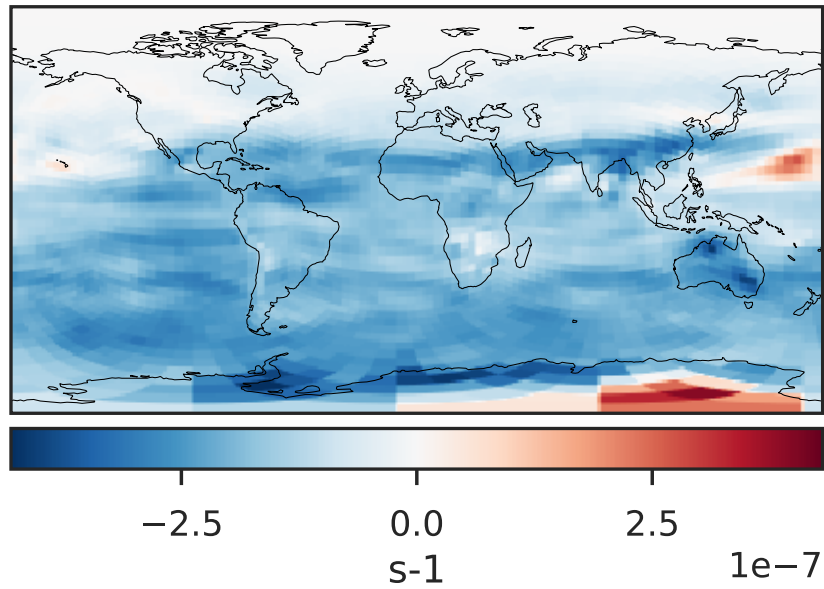
GCHP_14.0.0 (Ref)
c24



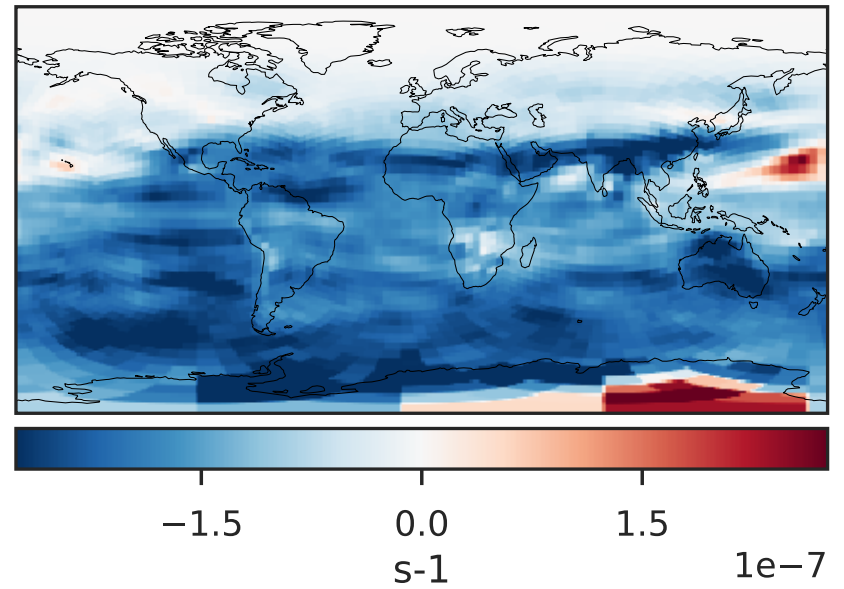
GCHP_14.2.0 (Dev)
c24



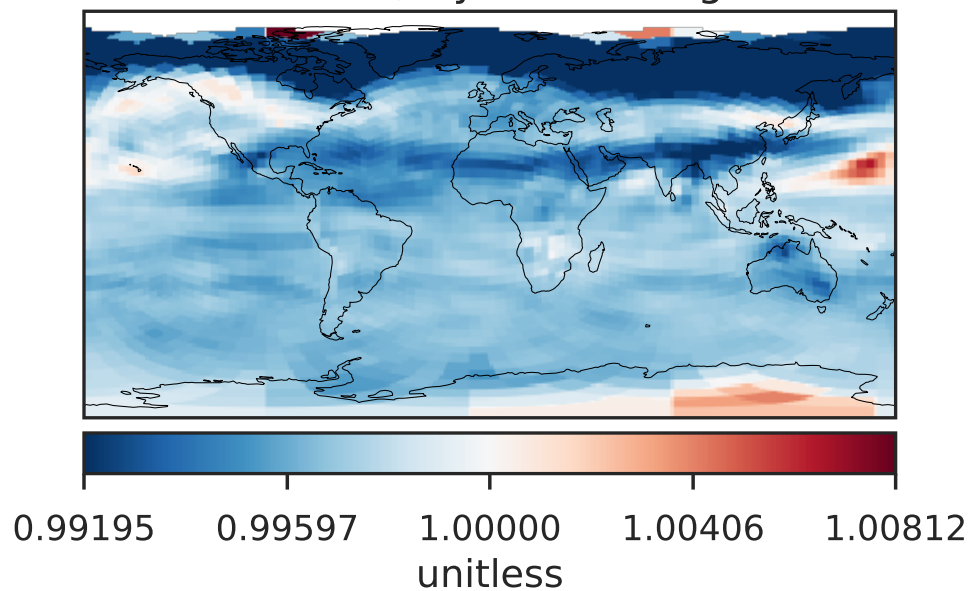
Difference (1x1.25)
Dev - Ref, Dynamic Range



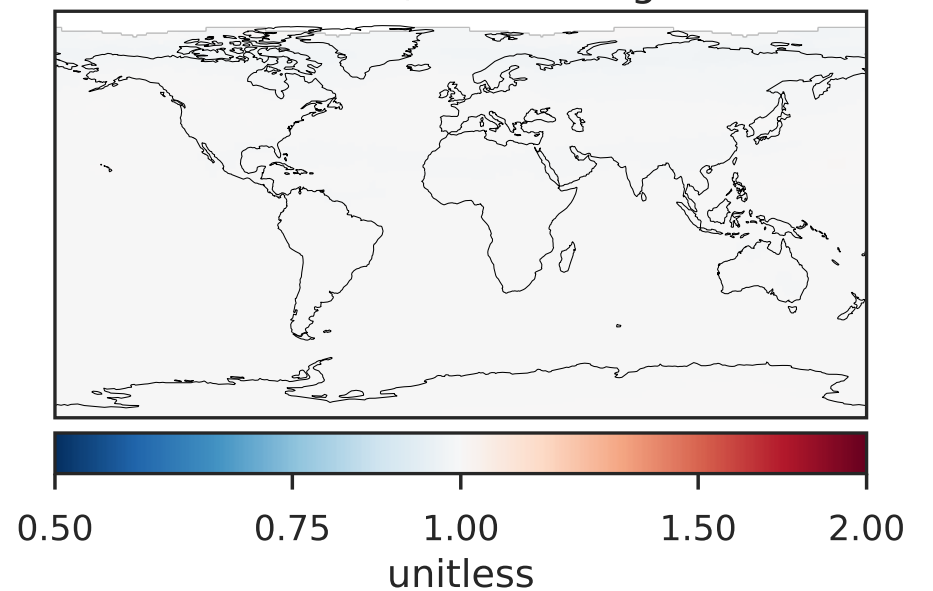
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

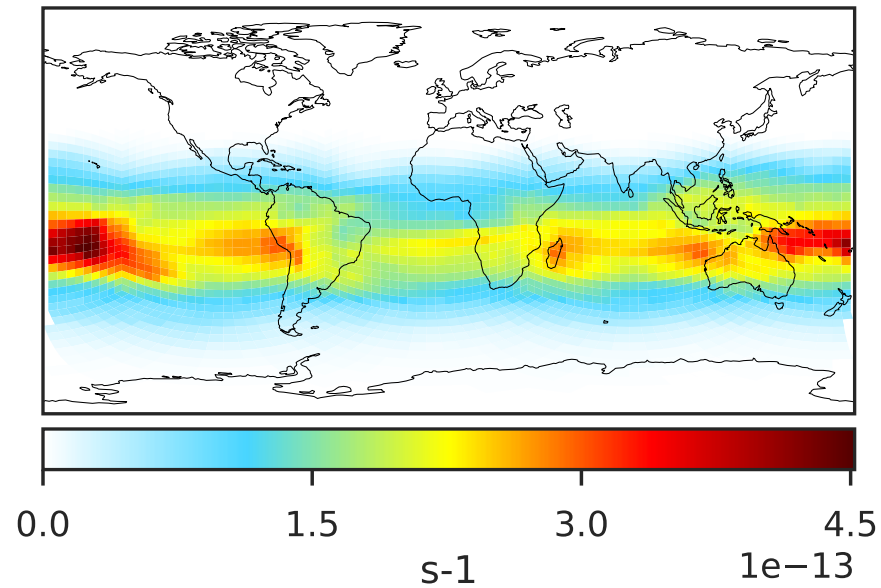


Ratio (1x1.25)
Dev/Ref, Fixed Range

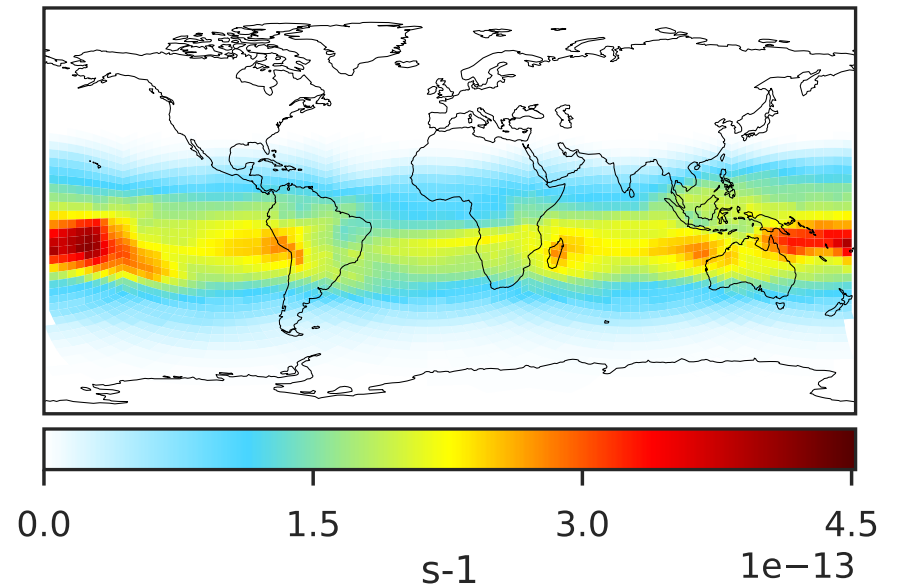


Jval_CH3Br (Jan2019)

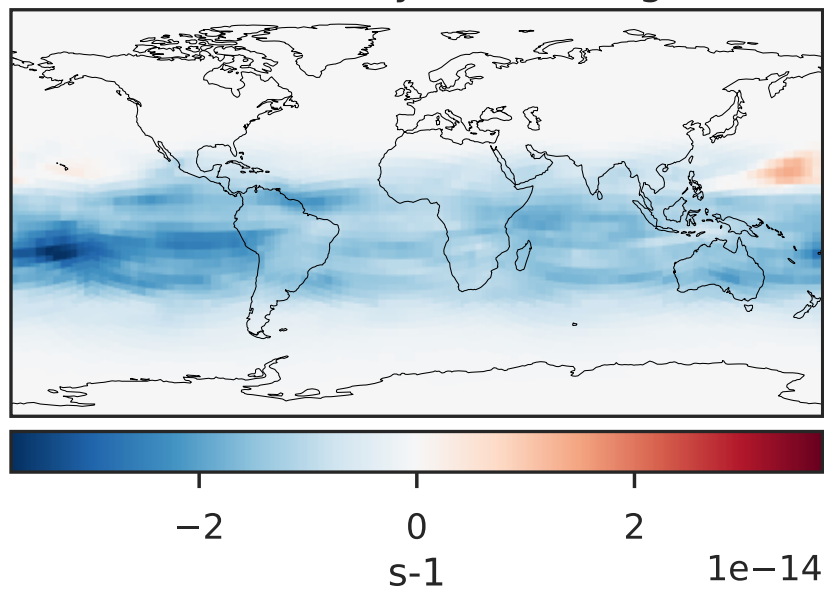
GCHP_14.0.0 (Ref)
c24



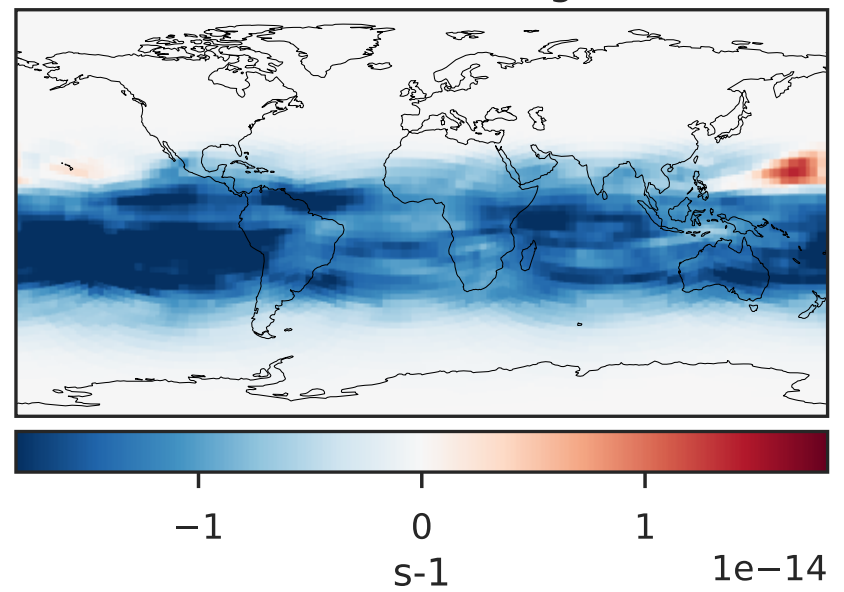
GCHP_14.2.0 (Dev)
c24



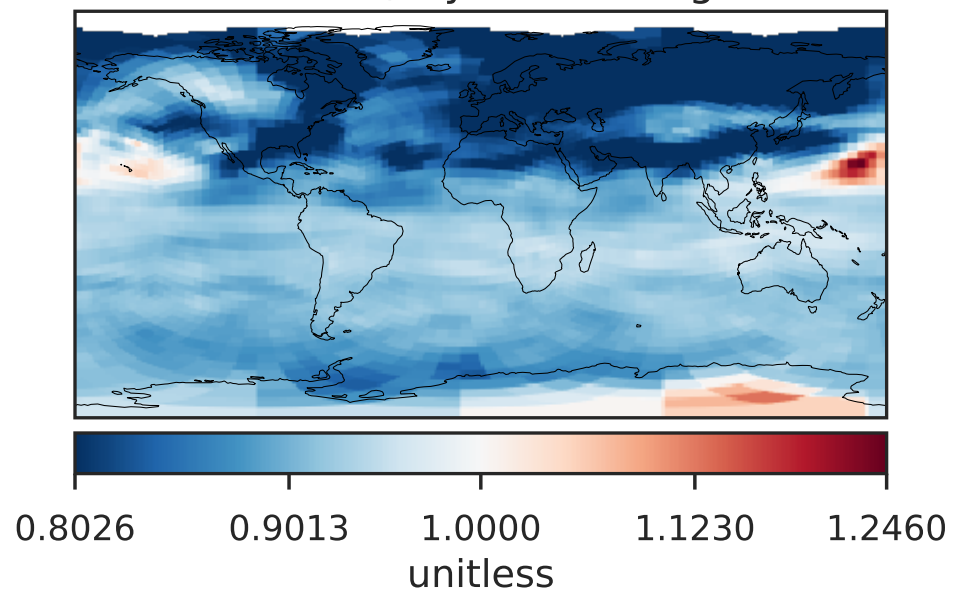
Difference (1x1.25)
Dev - Ref, Dynamic Range



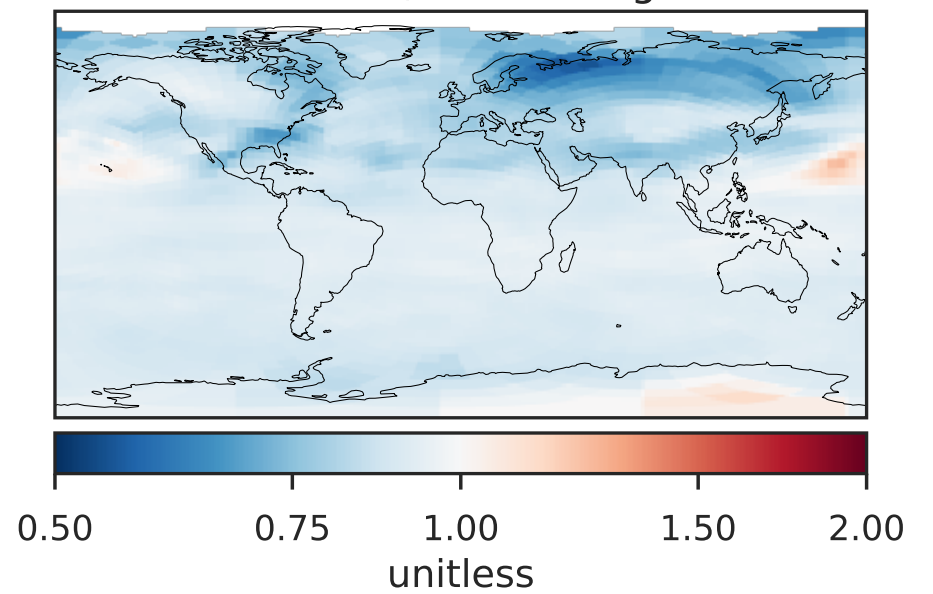
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

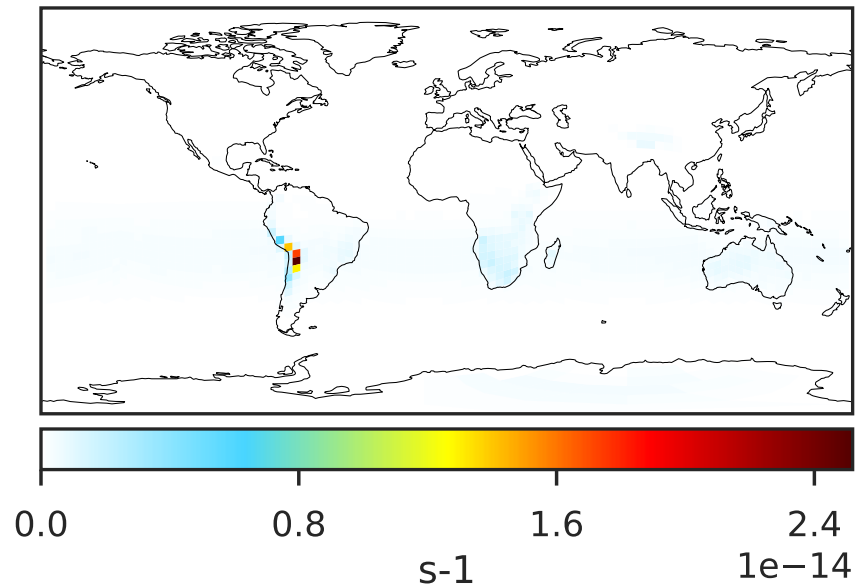


Ratio (1x1.25)
Dev/Ref, Fixed Range

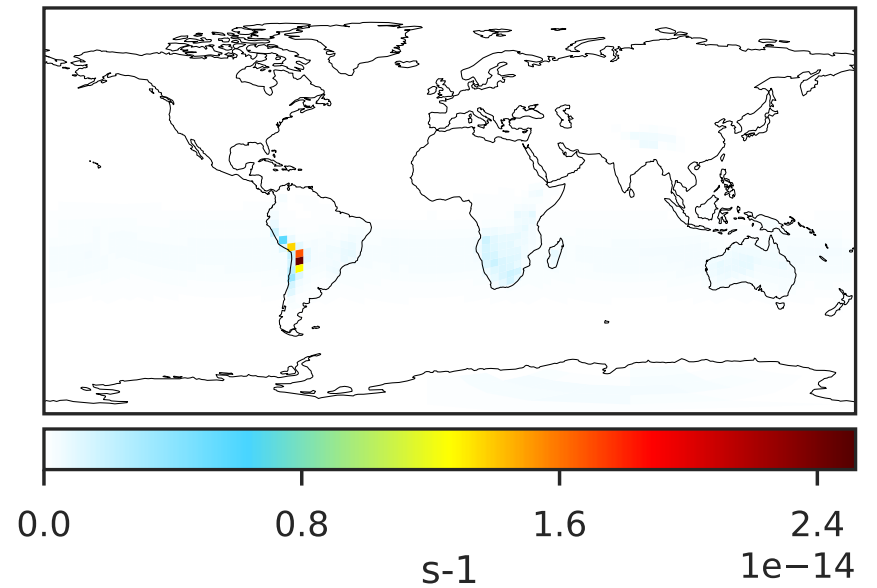


Jval_CH3CCI3 (Jan2019)

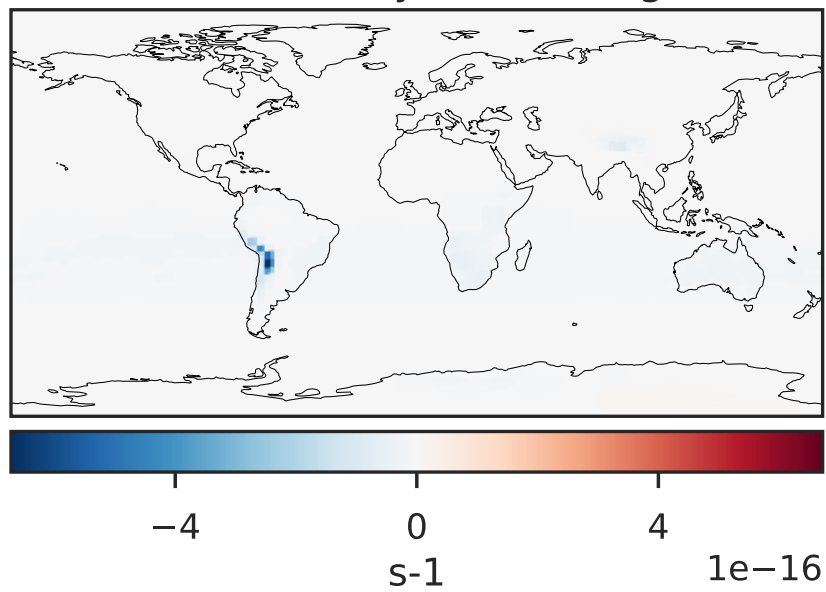
GCHP_14.0.0 (Ref)
c24



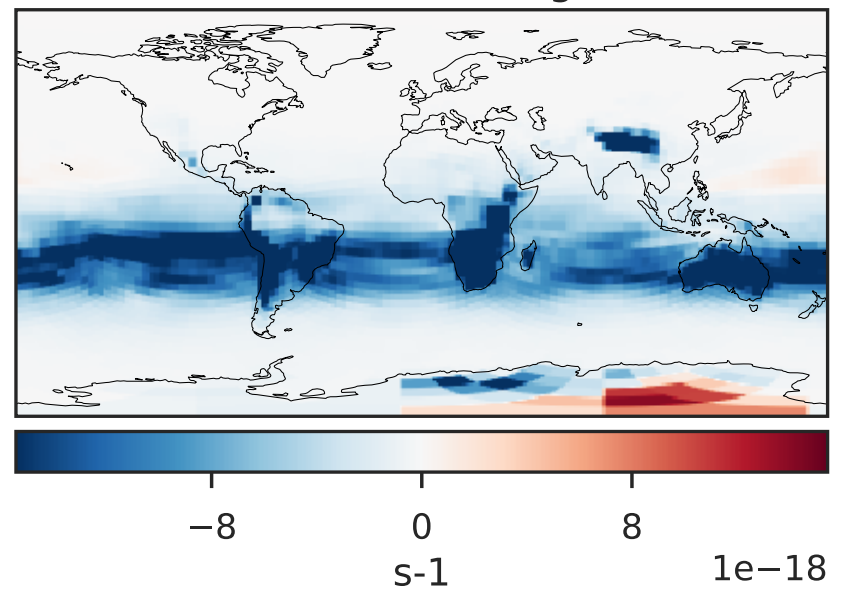
GCHP_14.2.0 (Dev)
c24



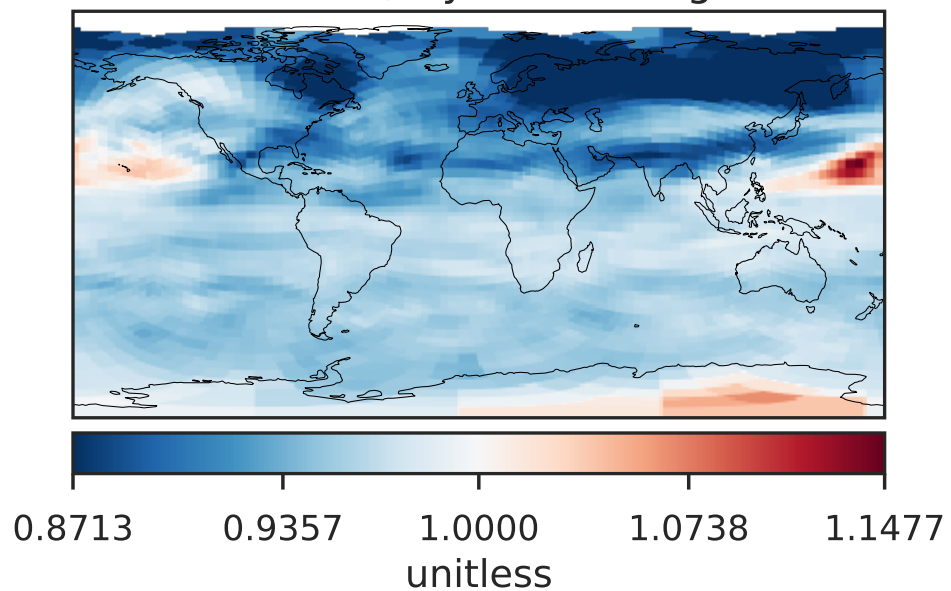
Difference (1x1.25)
Dev - Ref, Dynamic Range



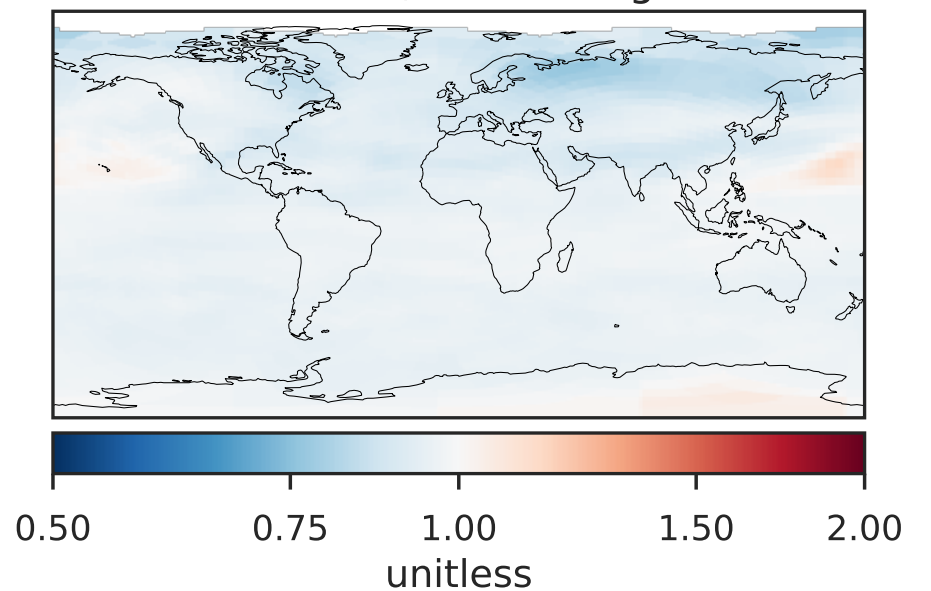
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

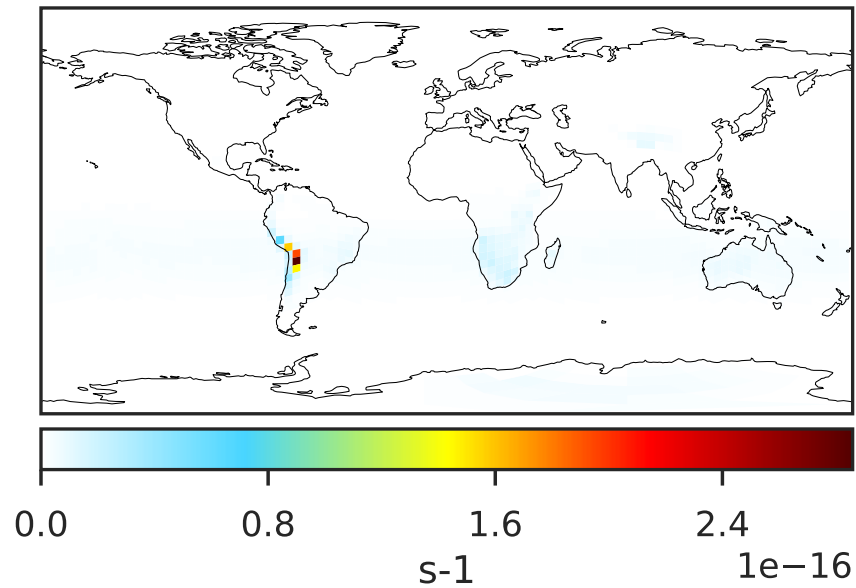


Ratio (1x1.25)
Dev/Ref, Fixed Range

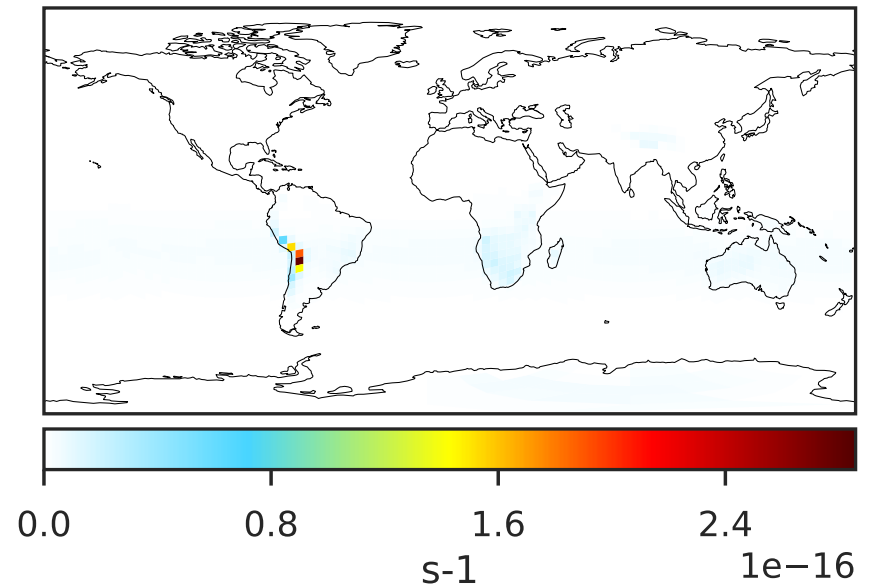


Jval_CH3Cl (Jan2019)

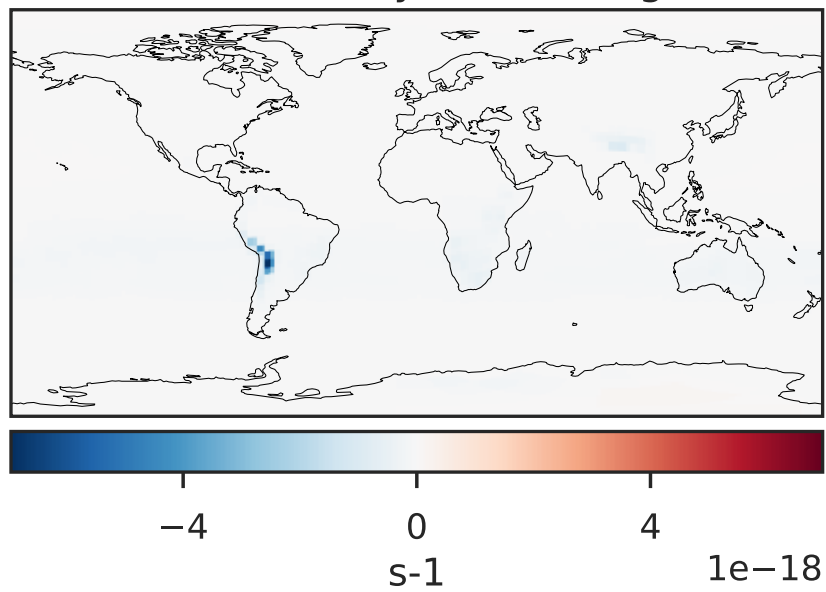
GCHP_14.0.0 (Ref)
c24



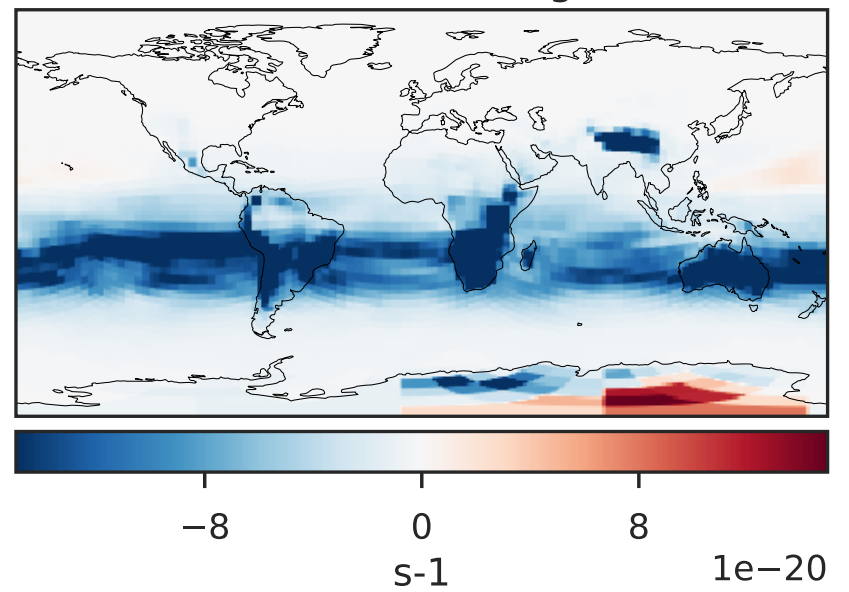
GCHP_14.2.0 (Dev)
c24



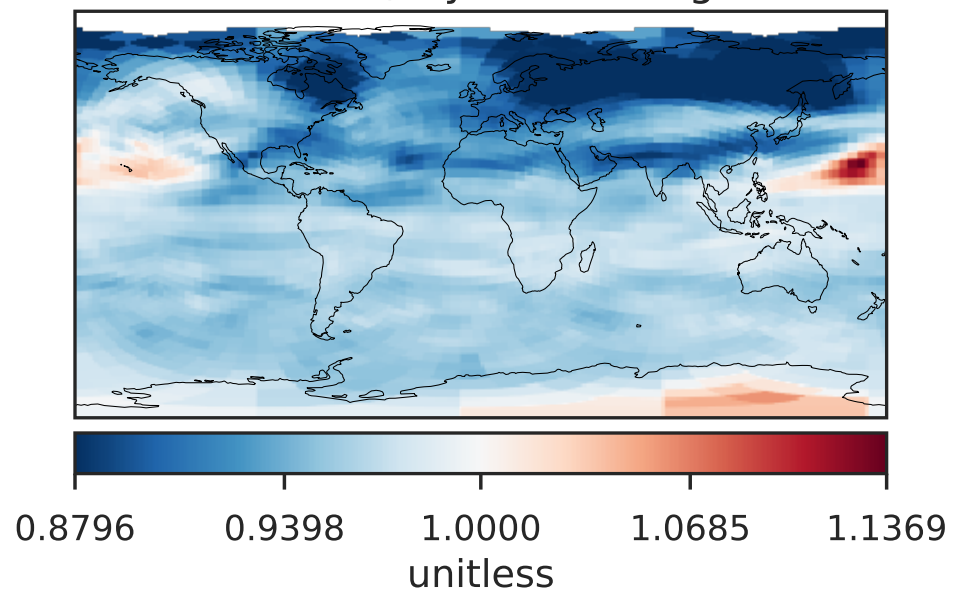
Difference (1x1.25)
Dev - Ref, Dynamic Range



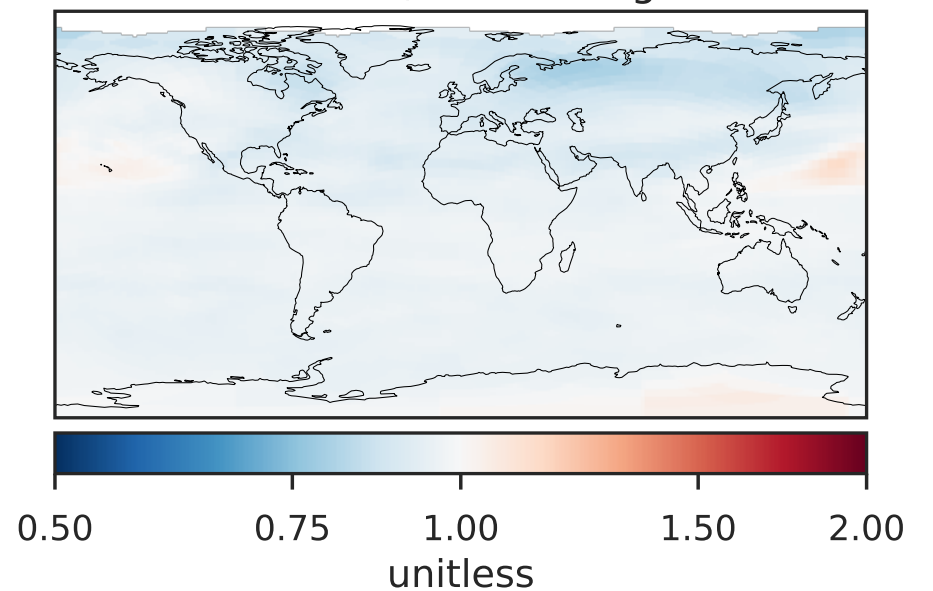
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

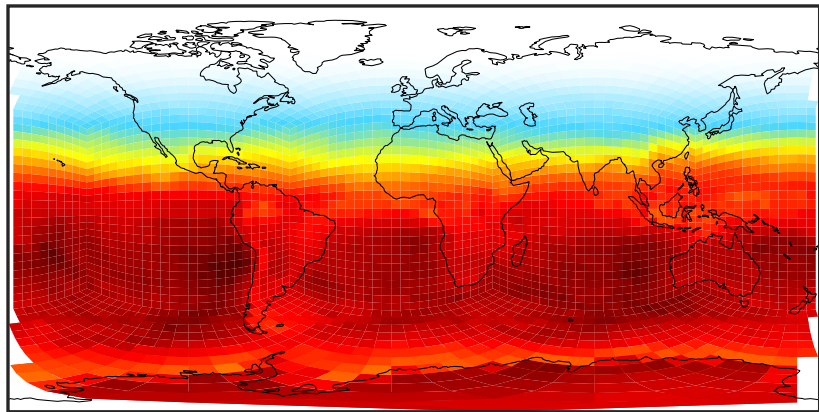


Ratio (1x1.25)
Dev/Ref, Fixed Range



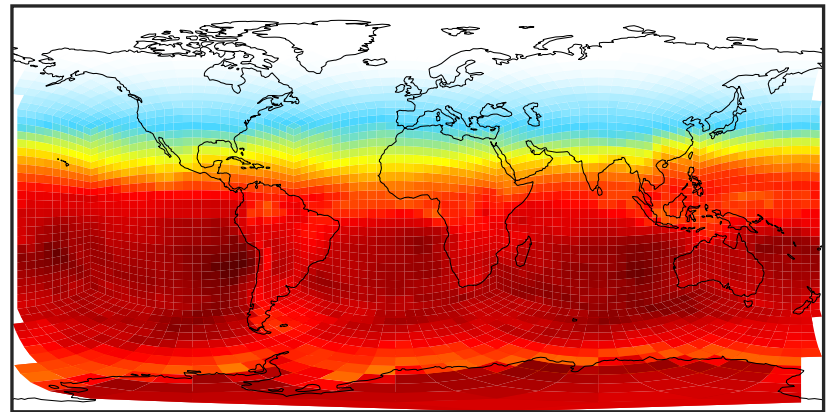
Jval_CH3I (Jan2019)

GCHP_14.0.0 (Ref)
c24



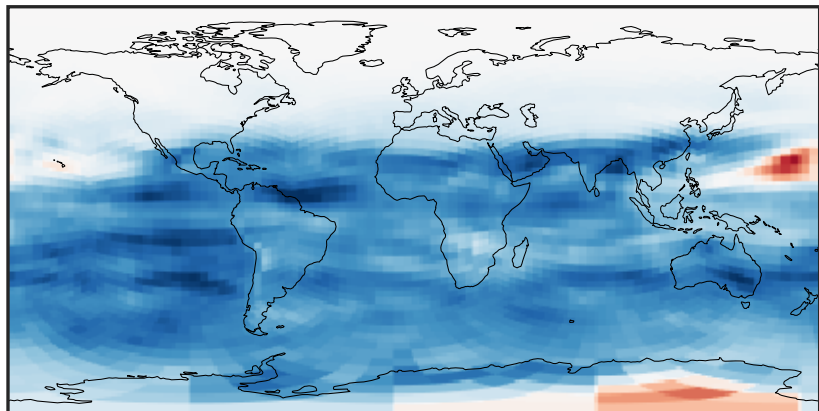
0.0 1.5 3.0 4.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



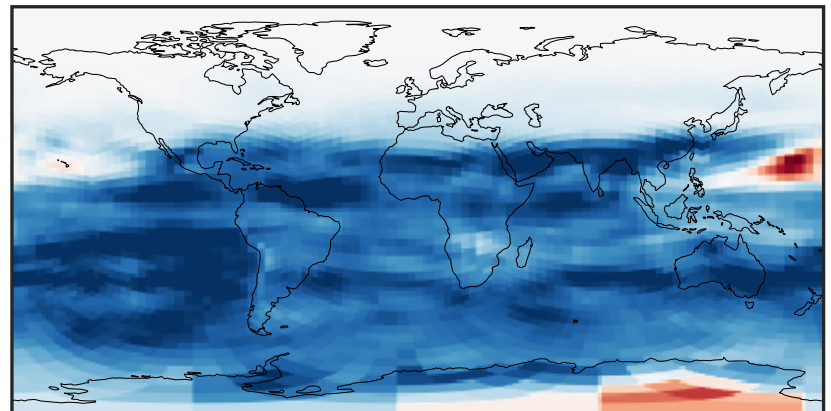
0.0 1.5 3.0 4.5
s-1 $1e-6$

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



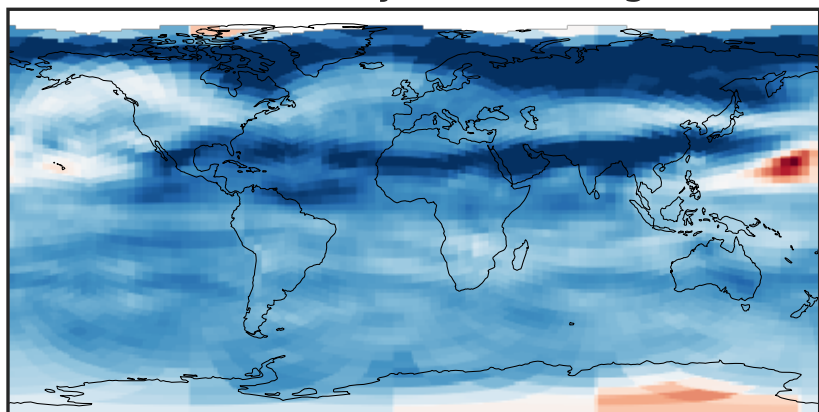
-3 0 3
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98170 0.99085 1.00000 1.00932 1.01864
unitless

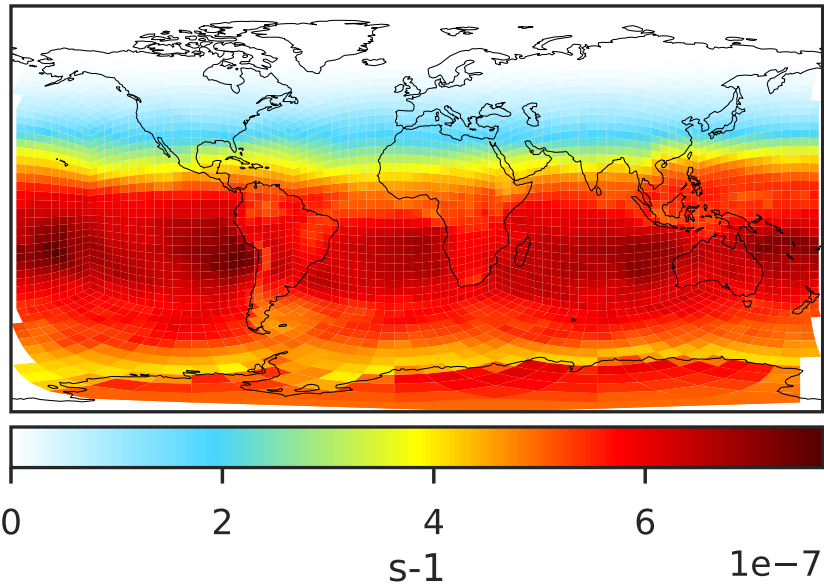
Ratio (1x1.25)
Dev/Ref, Fixed Range



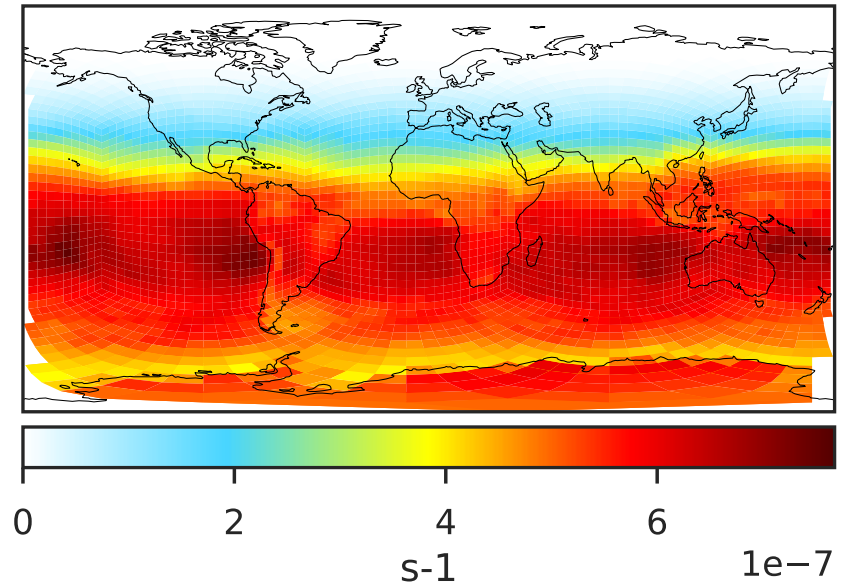
0.50 0.75 1.00 1.50 2.00
unitless

Jval_CHBr3 (Jan2019)

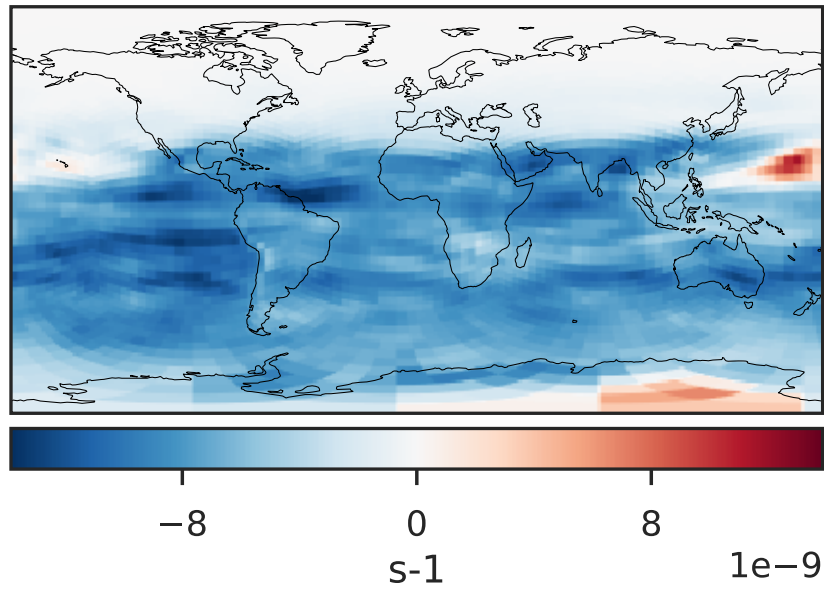
GCHP_14.0.0 (Ref)
c24



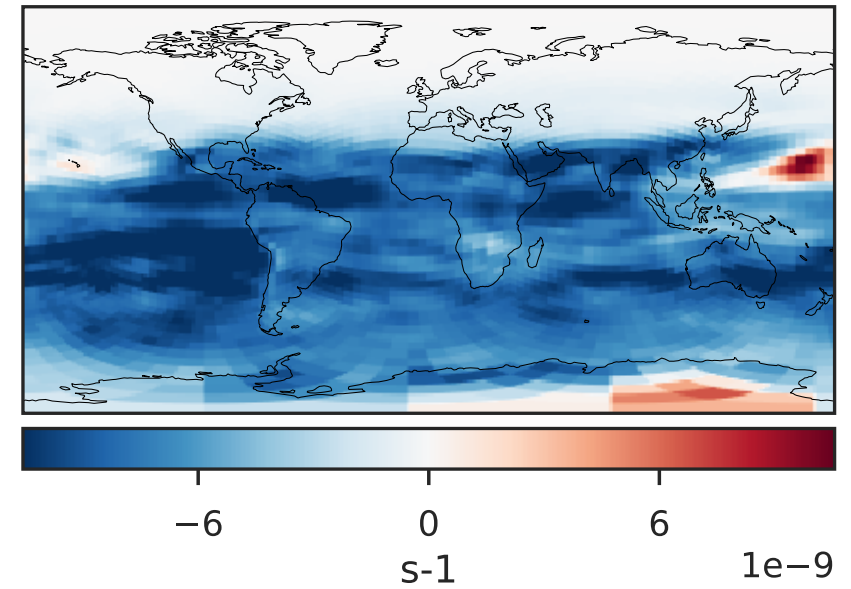
GCHP_14.2.0 (Dev)
c24



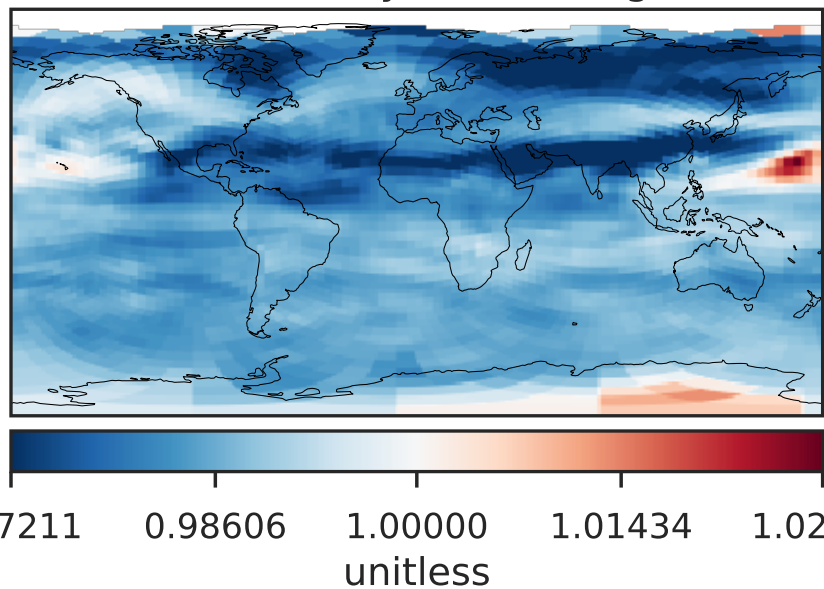
Difference (1x1.25)
Dev - Ref, Dynamic Range



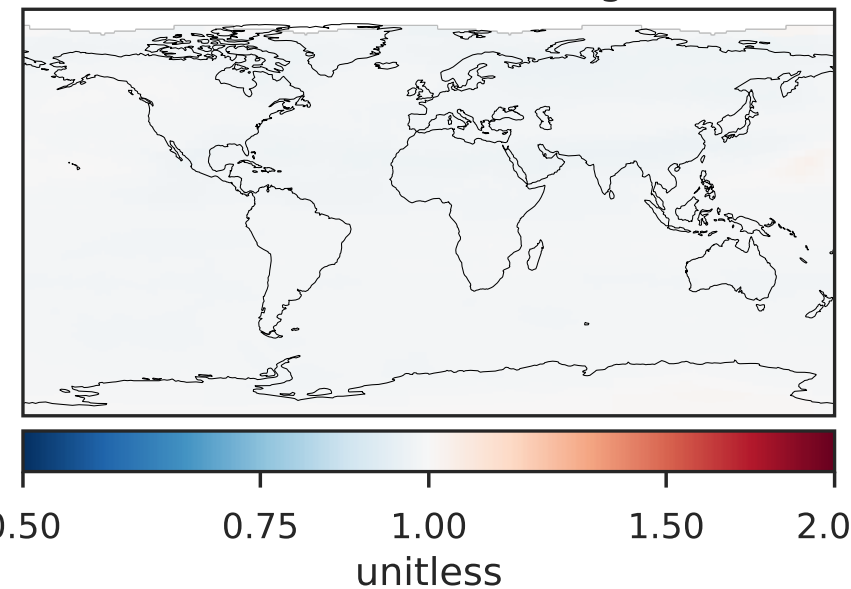
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

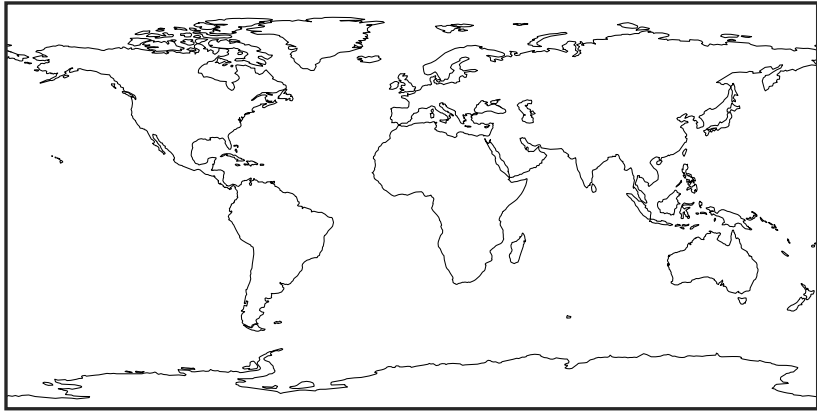


Ratio (1x1.25)
Dev/Ref, Fixed Range



Jval_CHCl3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



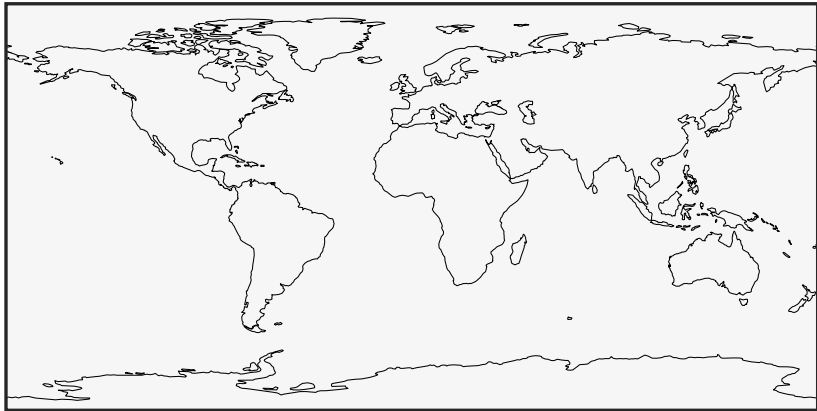
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



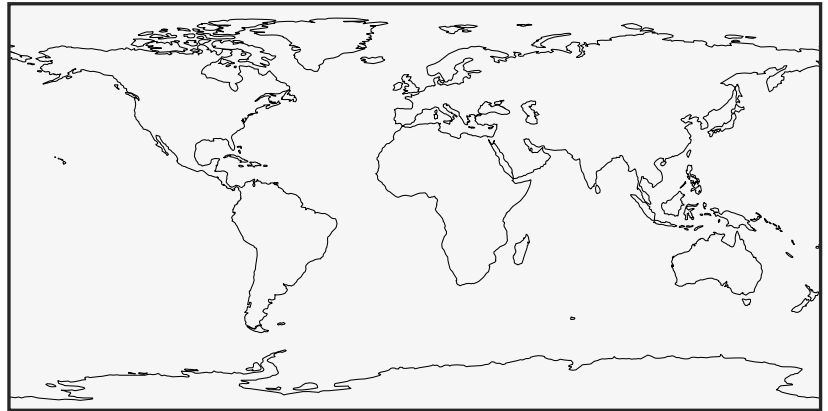
Zero throughput domain
s-1

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



Zero throughput domain
s-1

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



Zero throughput domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

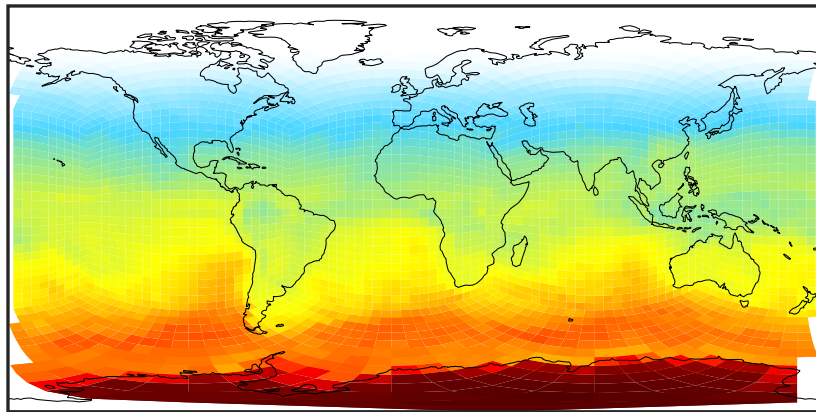
Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughput domain
unitless

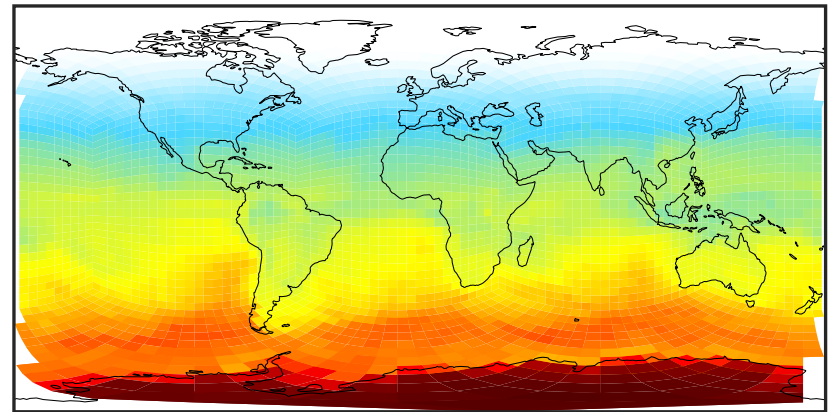
Jval_CI2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



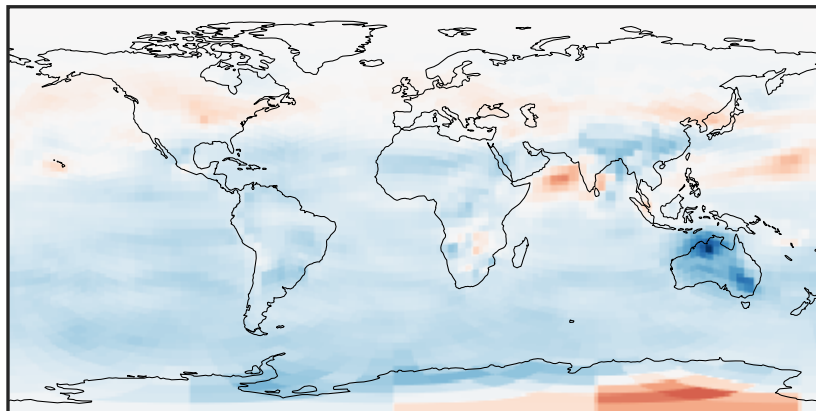
0.0000 0.0008 0.0016 0.0024
s-1

GCHP_14.2.0 (Dev)
c24



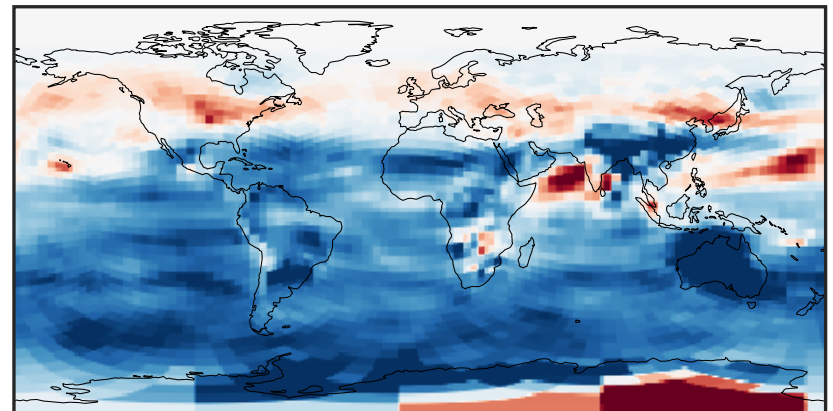
0.0000 0.0008 0.0016 0.0024
s-1

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



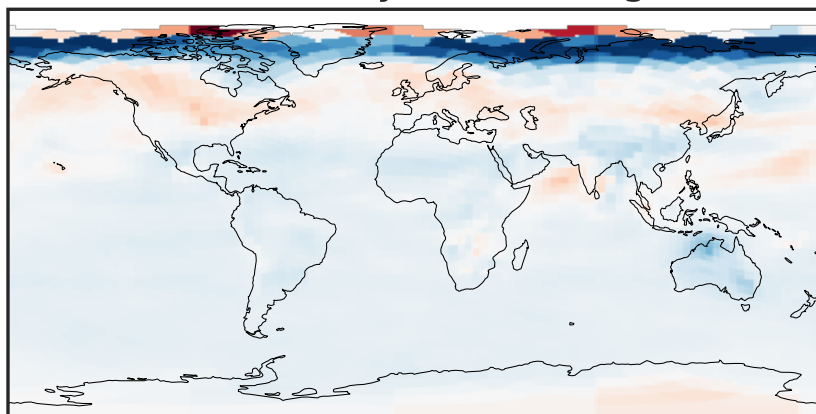
-5 0 5
s-1 1e-6

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



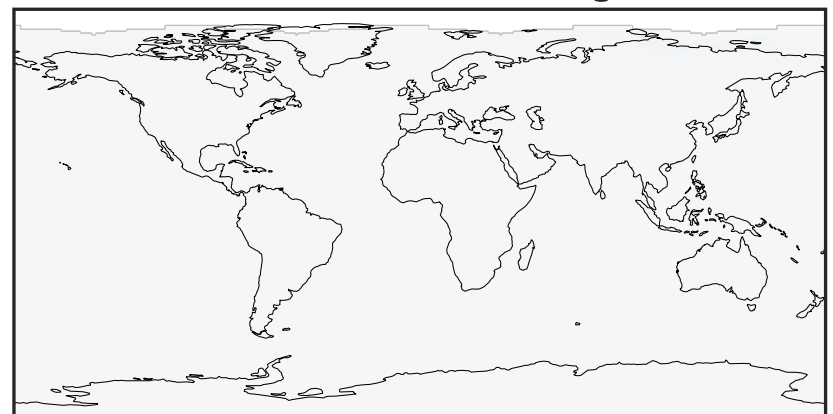
-1.5 0.0 1.5
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98745 0.99373 1.00000 1.00635 1.01271
unitless

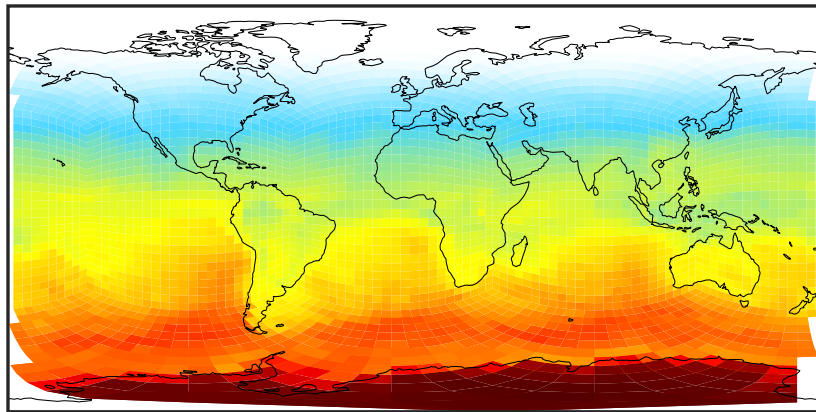
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

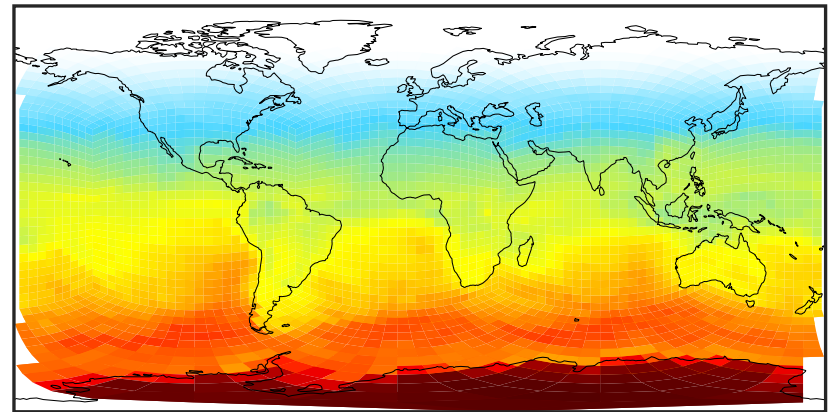
Jval_CI202 (Jan2019)

GCHP_14.0.0 (Ref)
c24



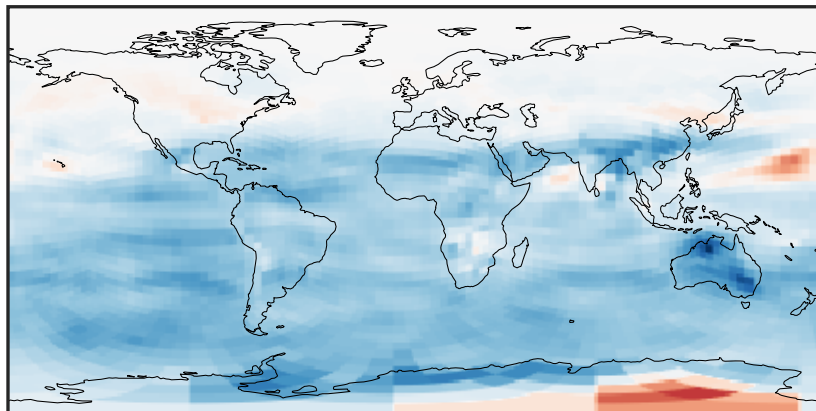
0.0000 0.0006 0.0012 0.0018
s-1

GCHP_14.2.0 (Dev)
c24



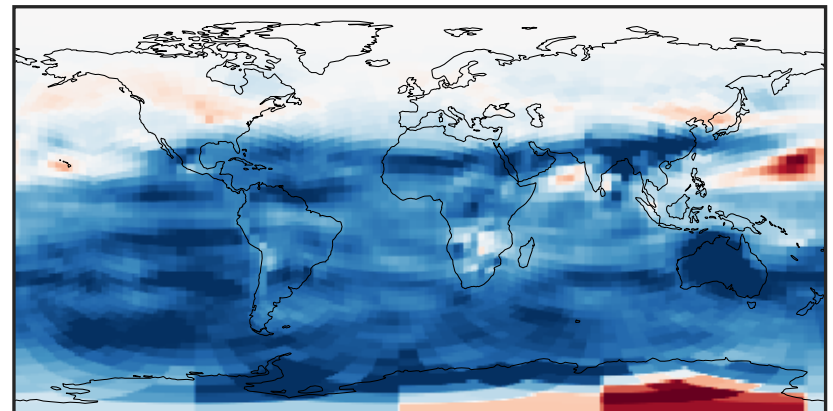
0.0000 0.0006 0.0012 0.0018
s-1

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



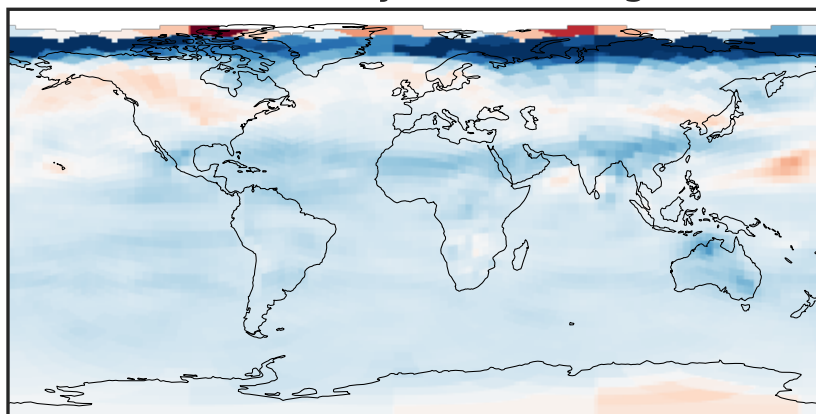
-4 0 4
s-1 $1e-6$

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



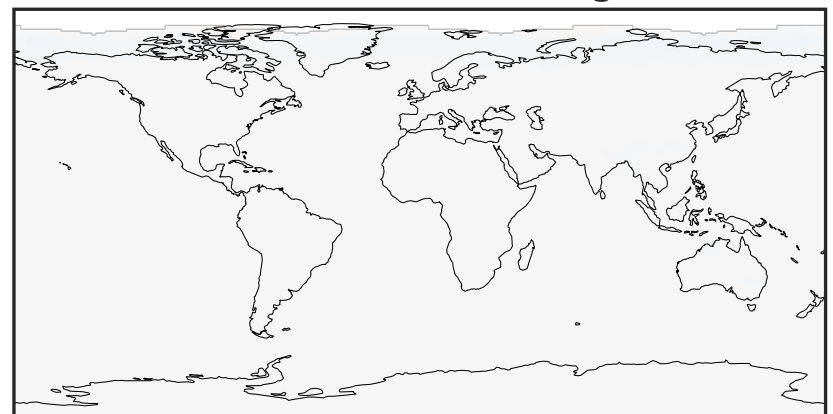
-2 0 2
s-1 $1e-6$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98819 0.99410 1.00000 1.00597 1.01195
unitless

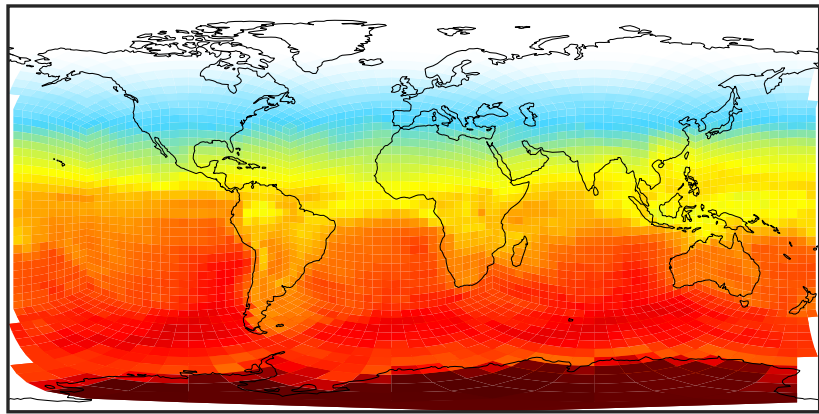
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

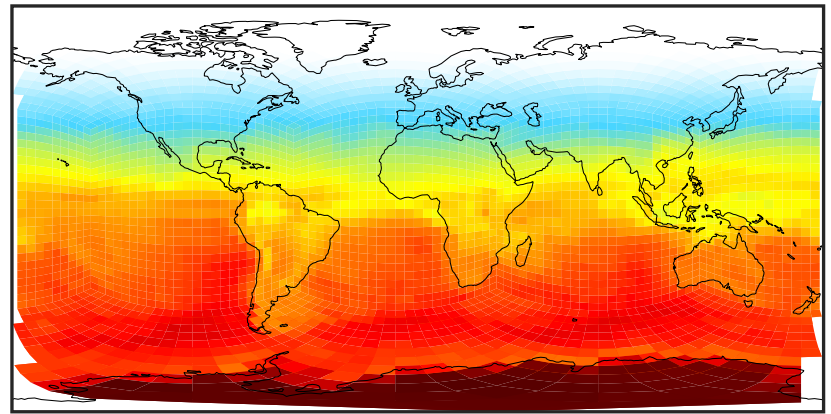
Jval_CINO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



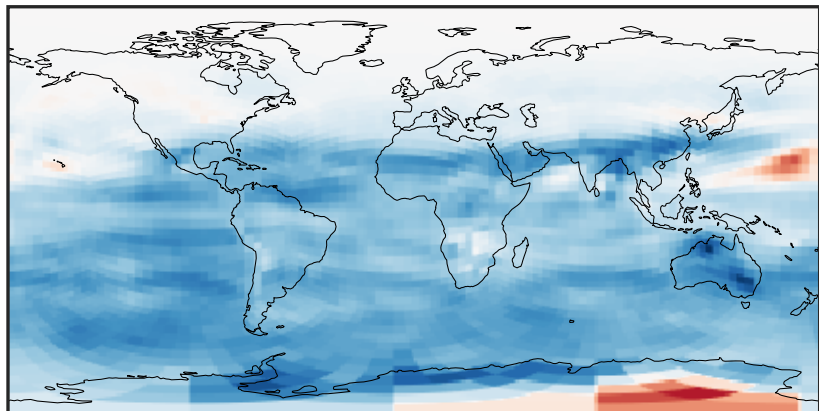
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



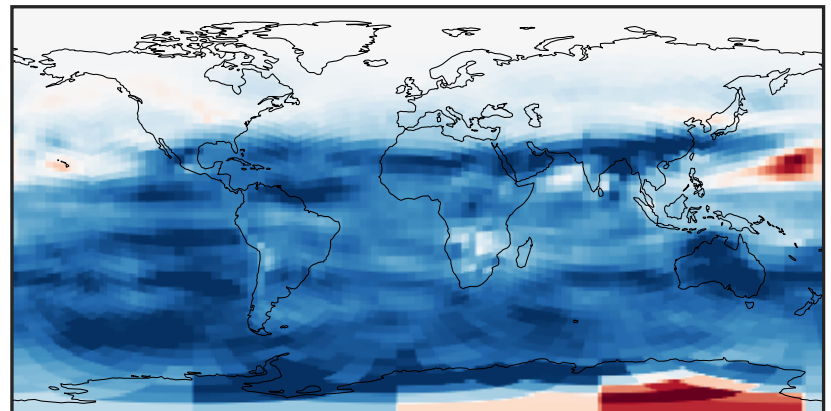
0.0000 0.0001 0.0002 0.0003
s-1

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



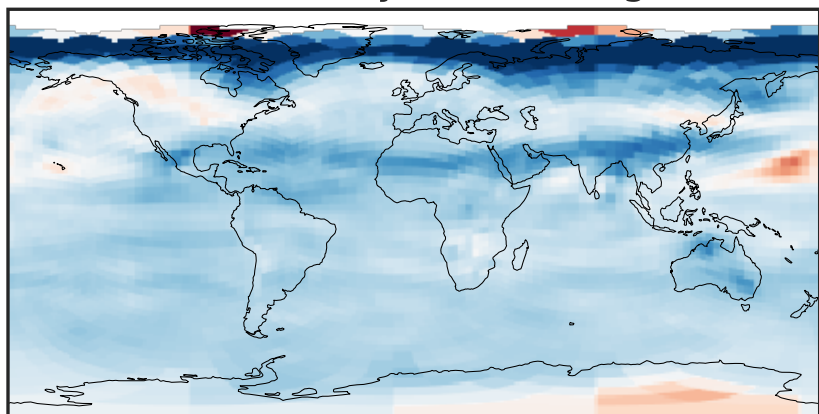
-1 0 1
s-1 1e-6

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



-6 0 6
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98885 0.99442 1.00000 1.00564 1.01128
unitless

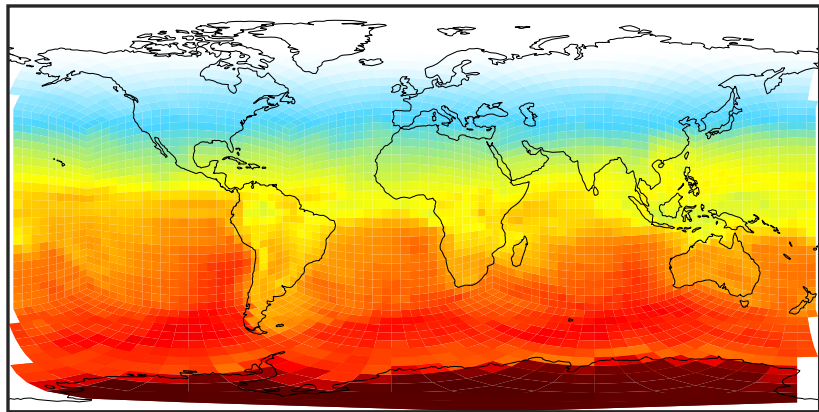
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

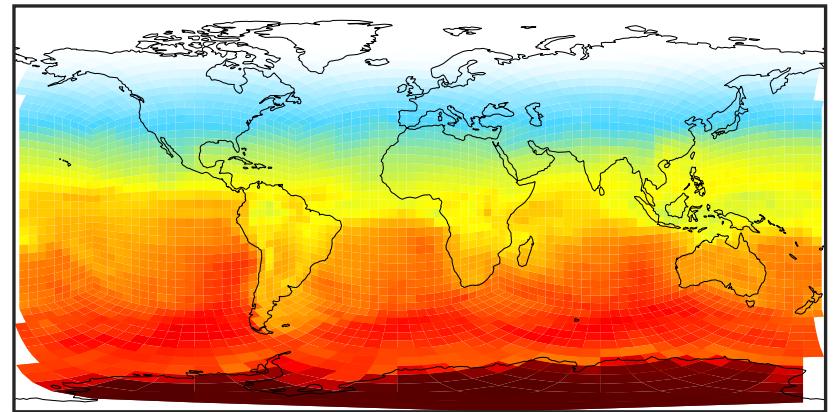
Jval_CINO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



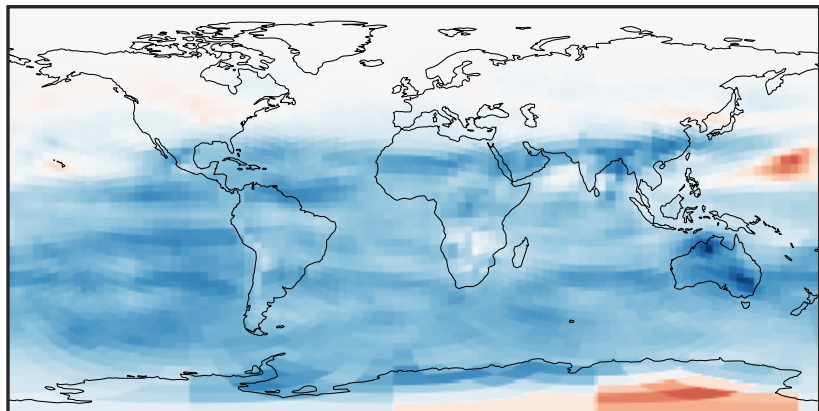
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



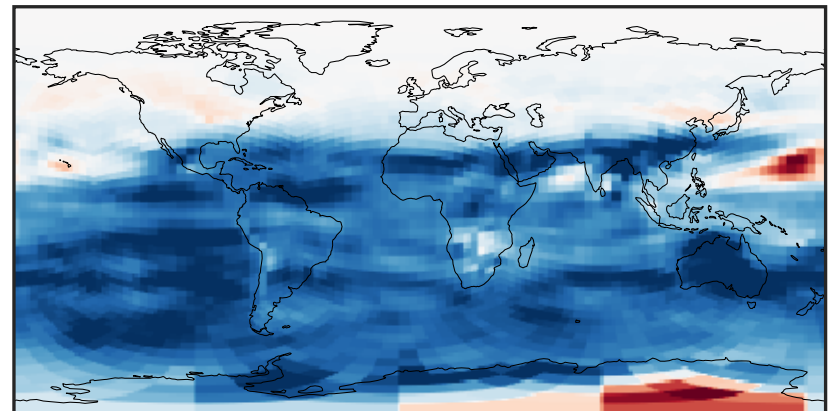
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



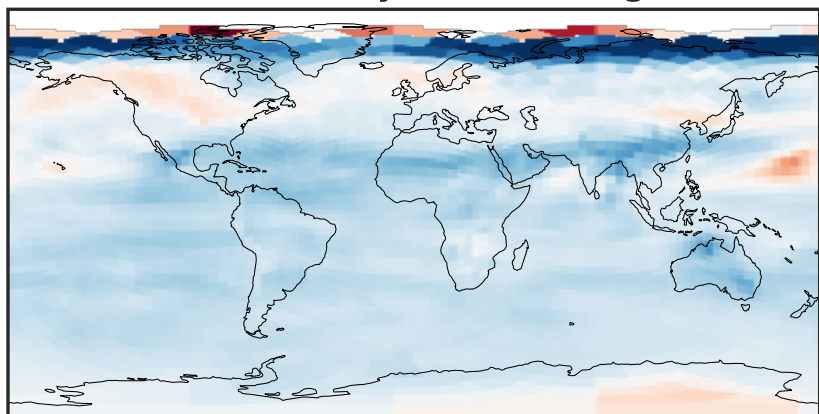
-1.5 0.0 1.5
s-1 $1e-7$

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



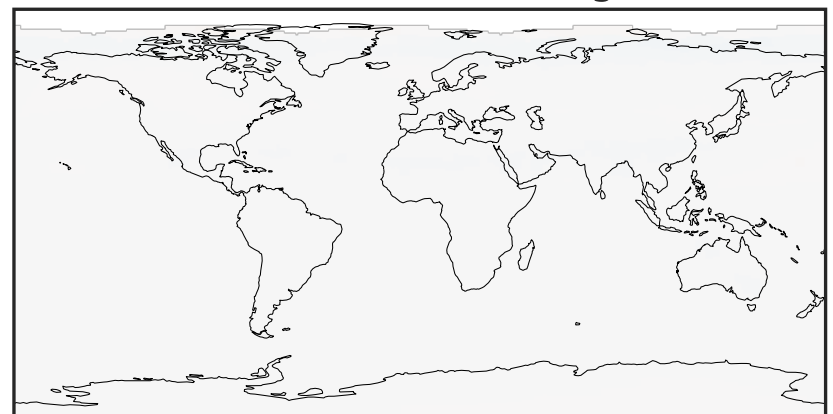
-6 0 6
s-1 $1e-8$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98727 0.99364 1.00000 1.00645 1.01289
unitless

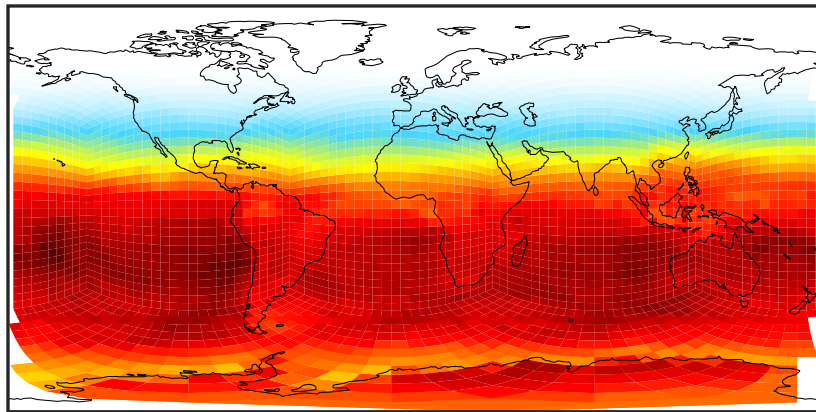
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

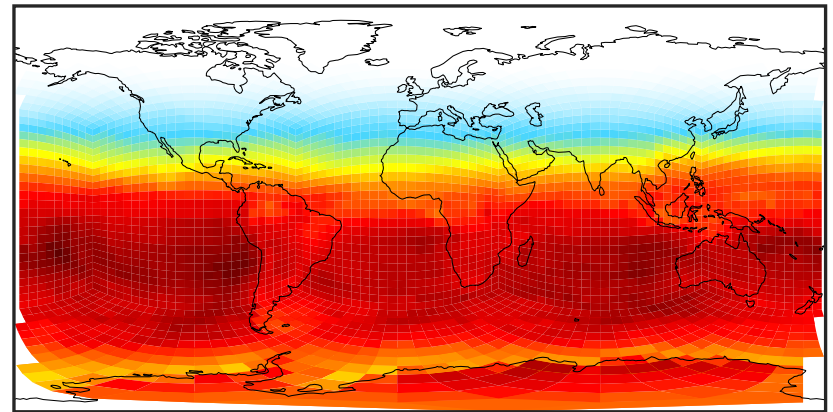
Jval_CIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



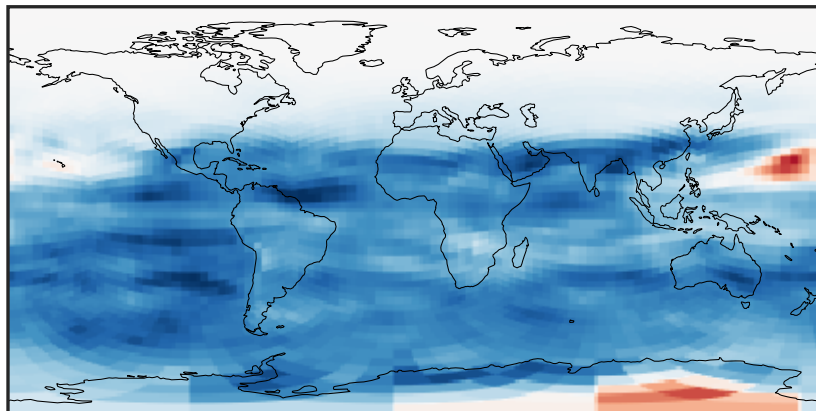
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



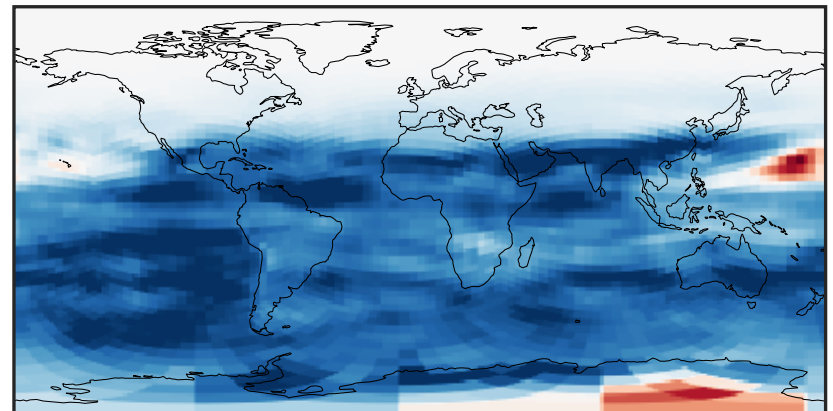
0.00000 0.00004 0.00008 0.00012
s-1

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



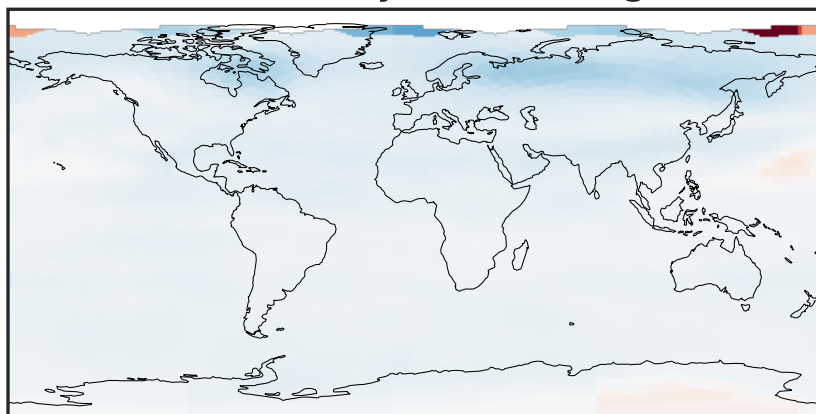
-1.5 0.0 1.5
s-1 1e-6

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



-1.5 0.0 1.5
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.7742 0.8871 1.0000 1.1459 1.2917
unitless

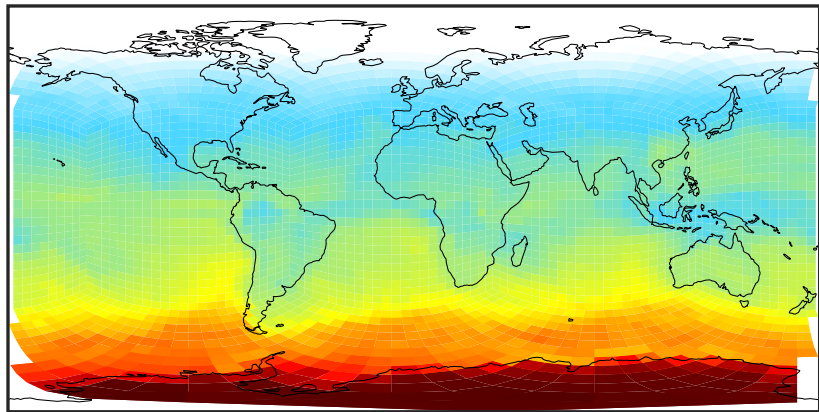
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

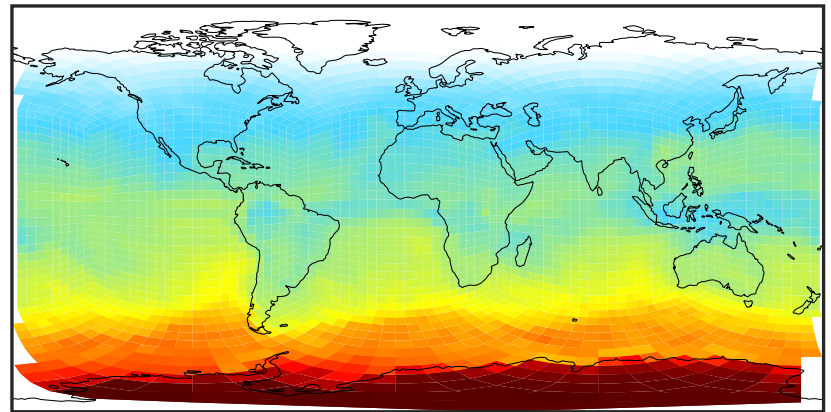
Jval_C100 (Jan2019)

GCHP_14.0.0 (Ref)
c24



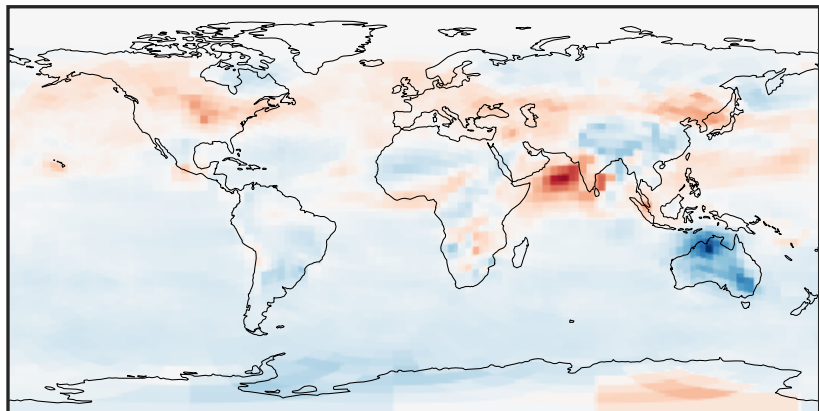
0.0000 0.1918 0.3837 0.5755 0.7674
s-1

GCHP_14.2.0 (Dev)
c24



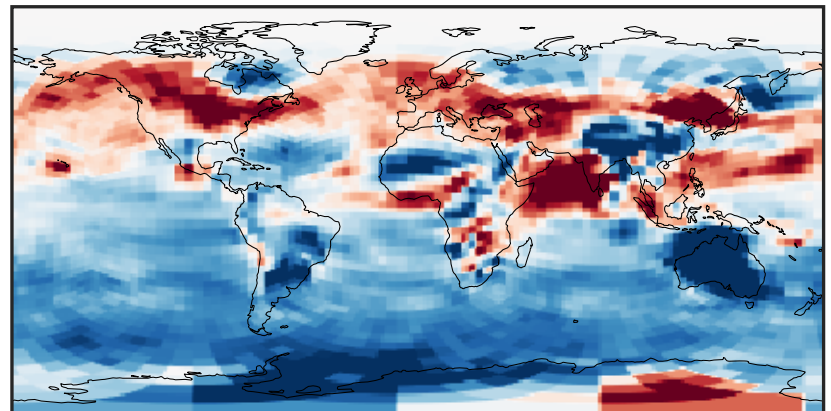
0.0000 0.1918 0.3837 0.5755 0.7674
s-1

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



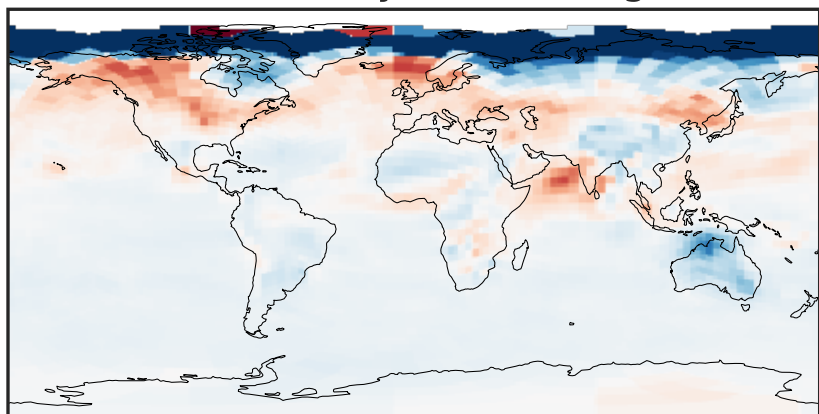
-0.0008 0.0000 0.0008
s-1

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



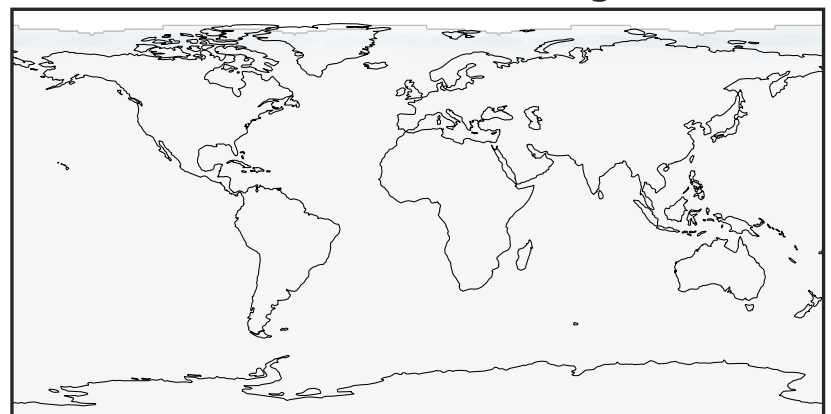
-0.00015 0.00000 0.00015
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99354 0.99677 1.00000 1.00325 1.00650
unitless

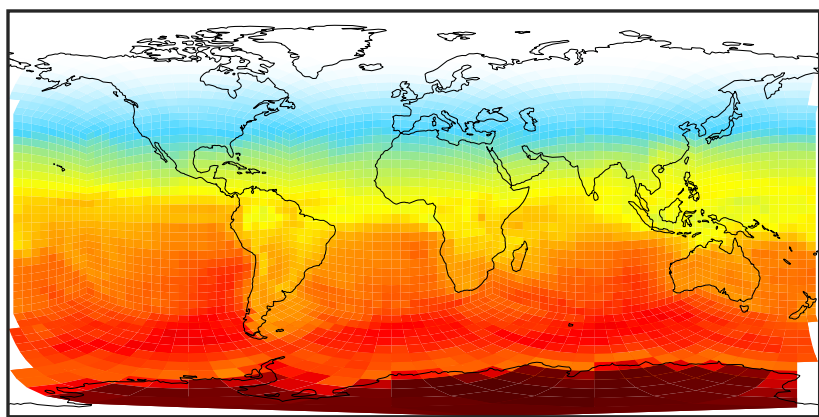
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

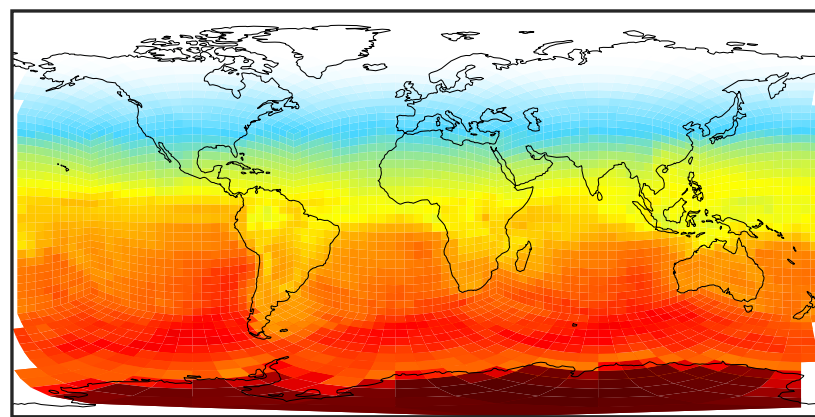
Jval_ETHLN (Jan2019)

GCHP_14.0.0 (Ref)
c24



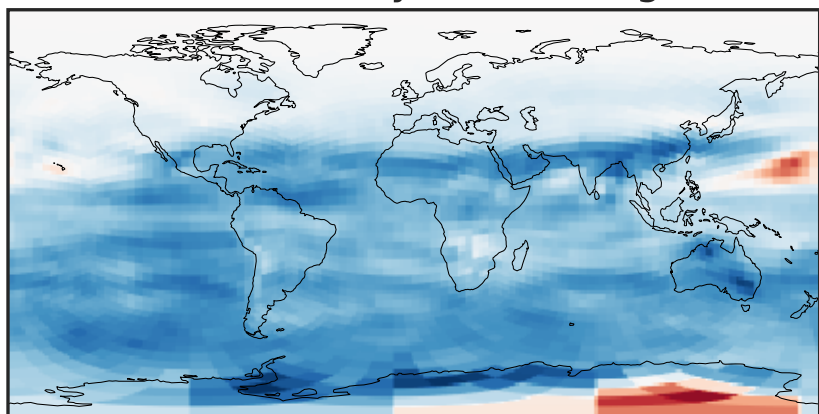
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



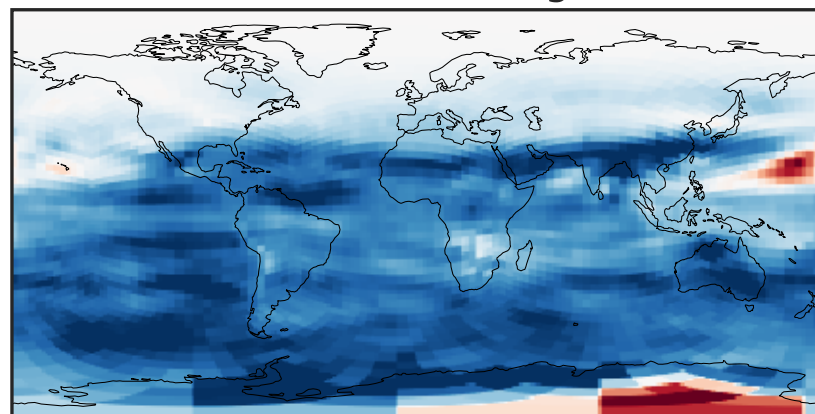
0.00000 0.00004 0.00008 0.00012
s-1

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



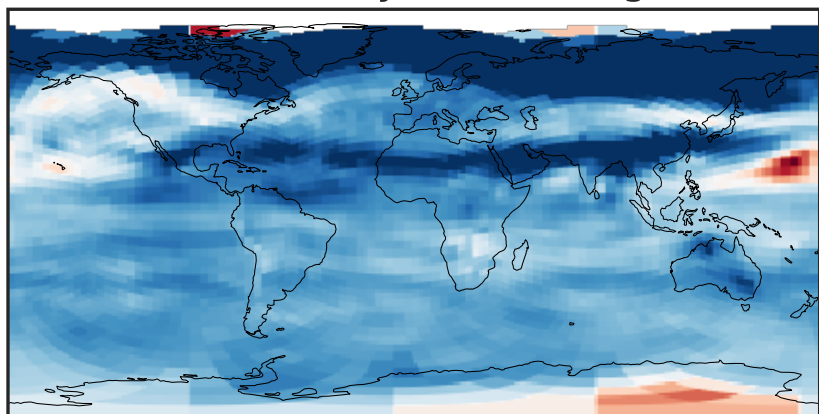
-4 0 4
s-1 1e-7

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



-3 0 3
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99183 0.99591 1.00000 1.00412 1.00824
unitless

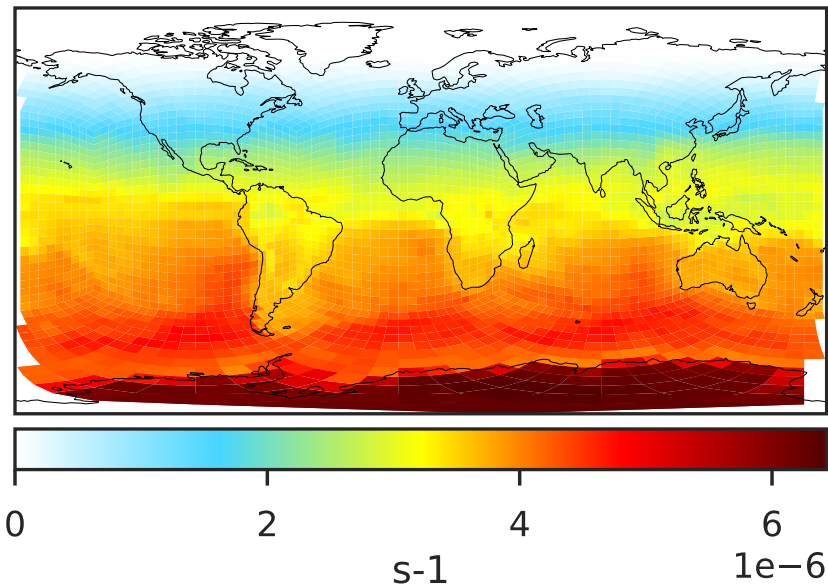
Ratio (1x1.25)
Dev/Ref, Fixed Range



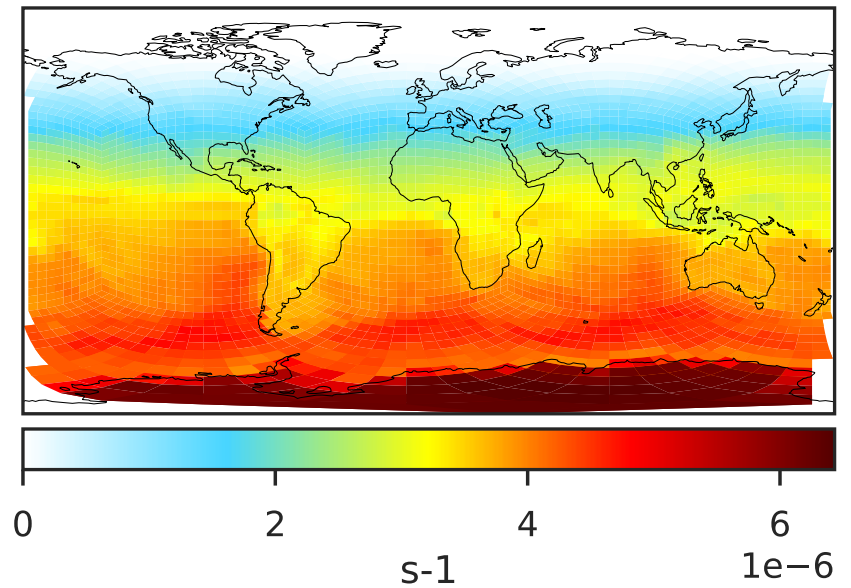
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ETHP (Jan2019)

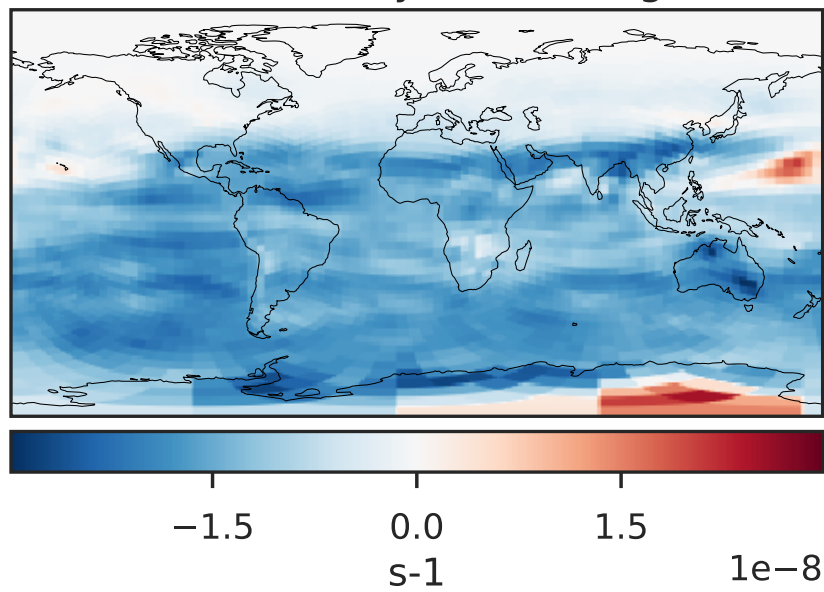
GCHP_14.0.0 (Ref)
c24



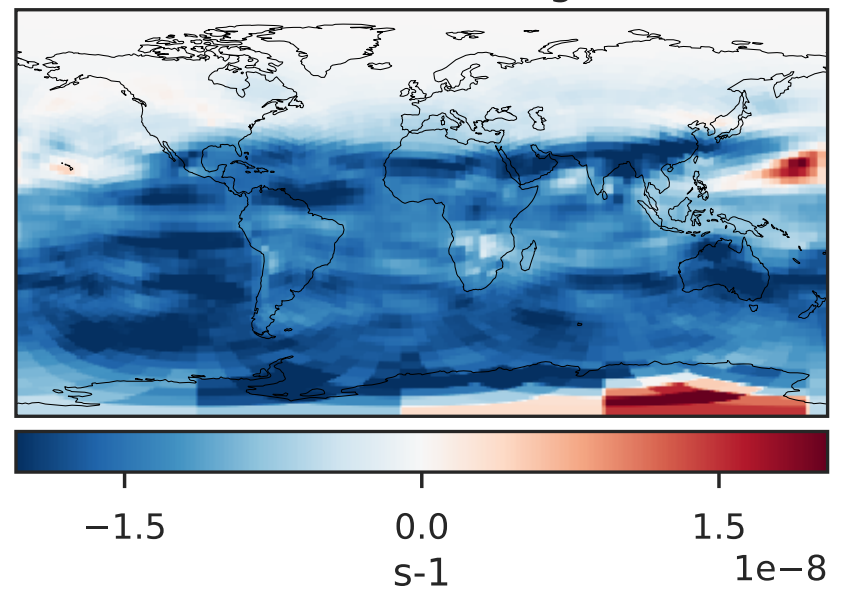
GCHP_14.2.0 (Dev)
c24



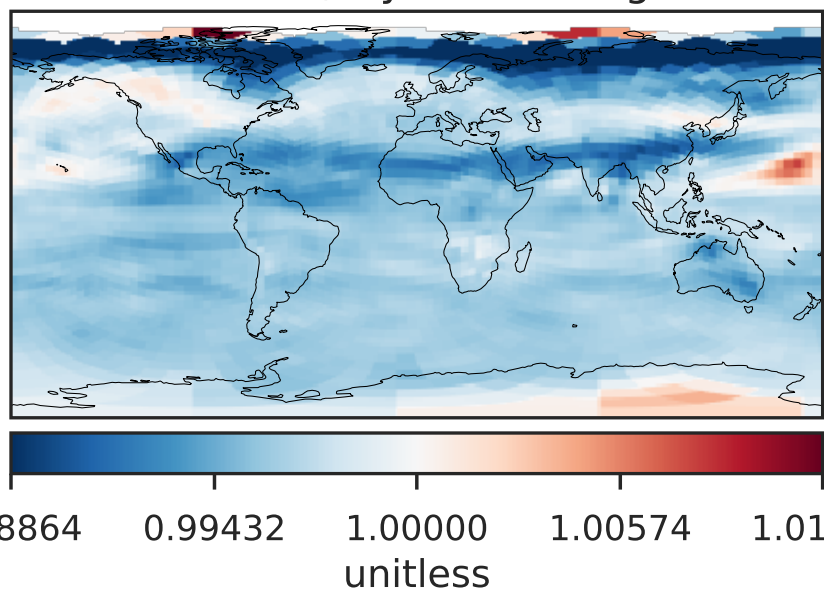
Difference (1x1.25)
Dev - Ref, Dynamic Range



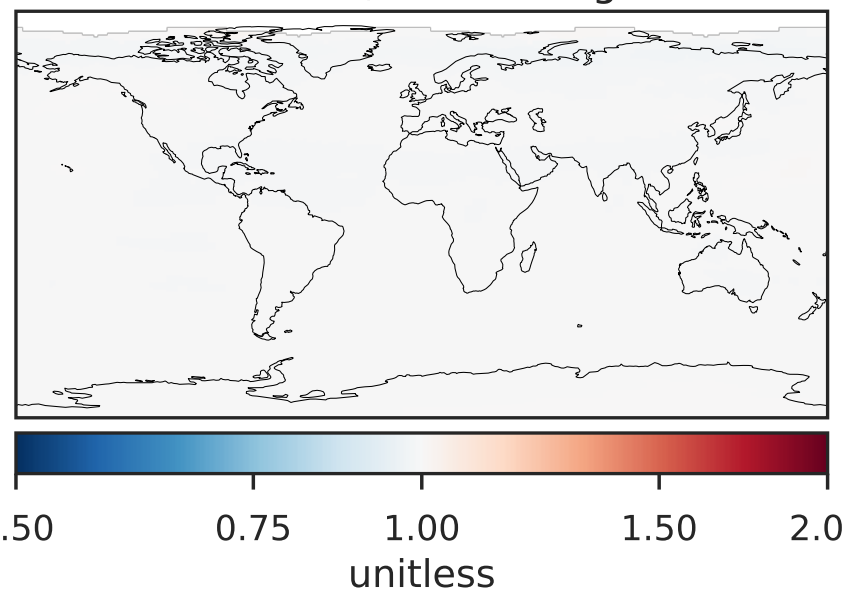
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

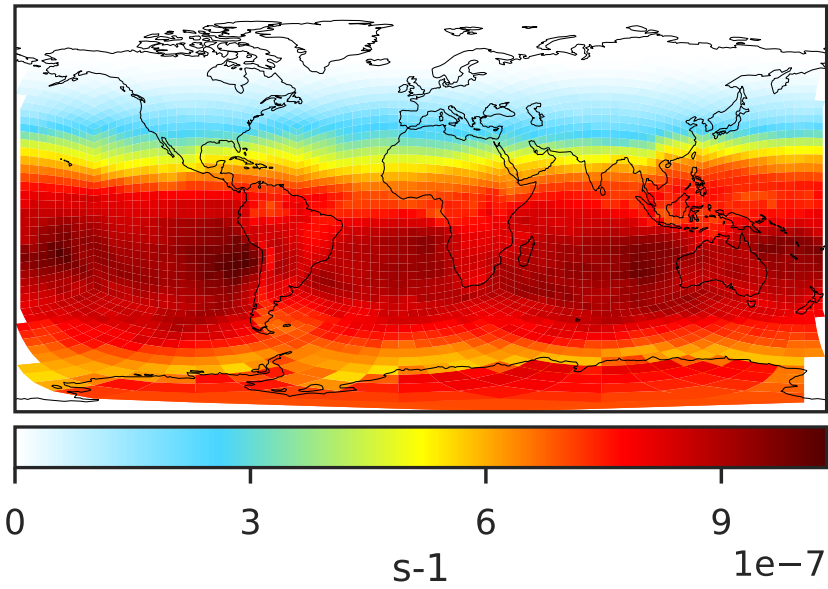


Ratio (1x1.25)
Dev/Ref, Fixed Range

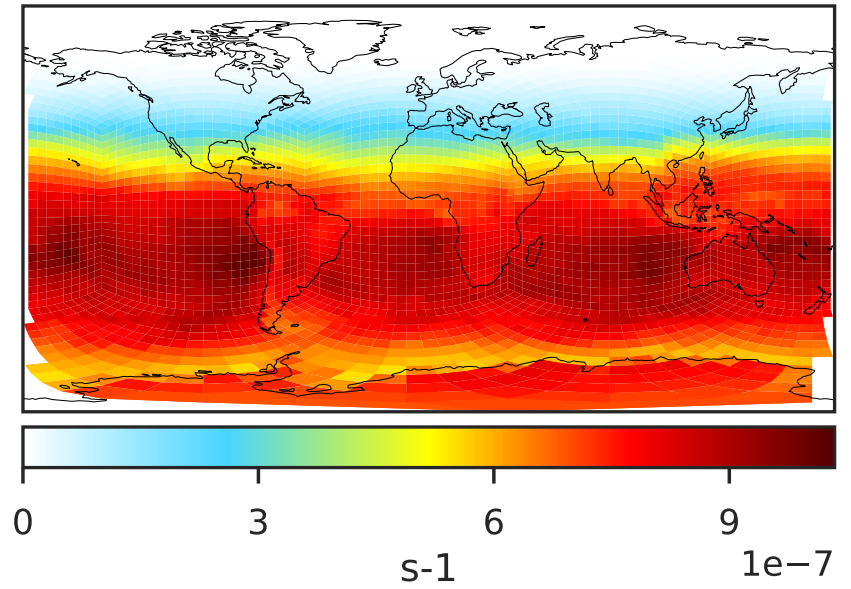


Jval_ETNO3 (Jan2019)

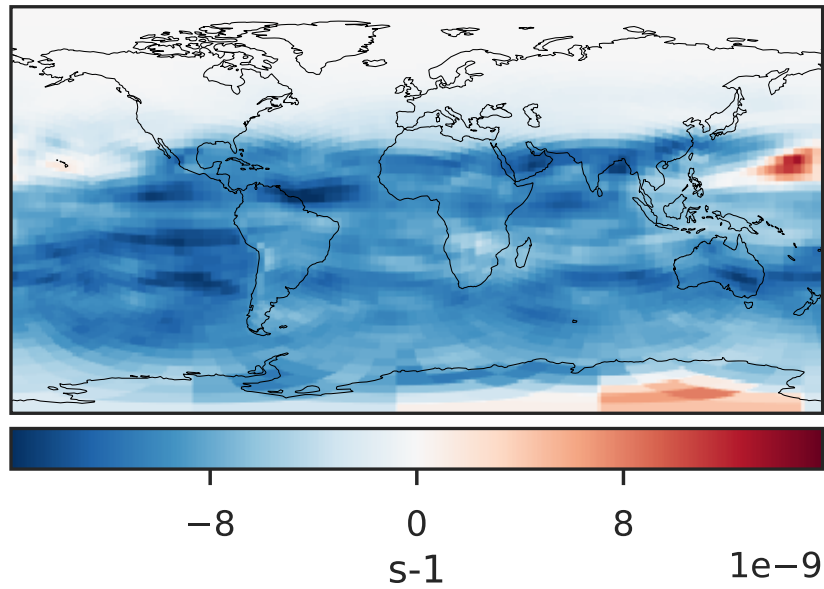
GCHP_14.0.0 (Ref)
c24



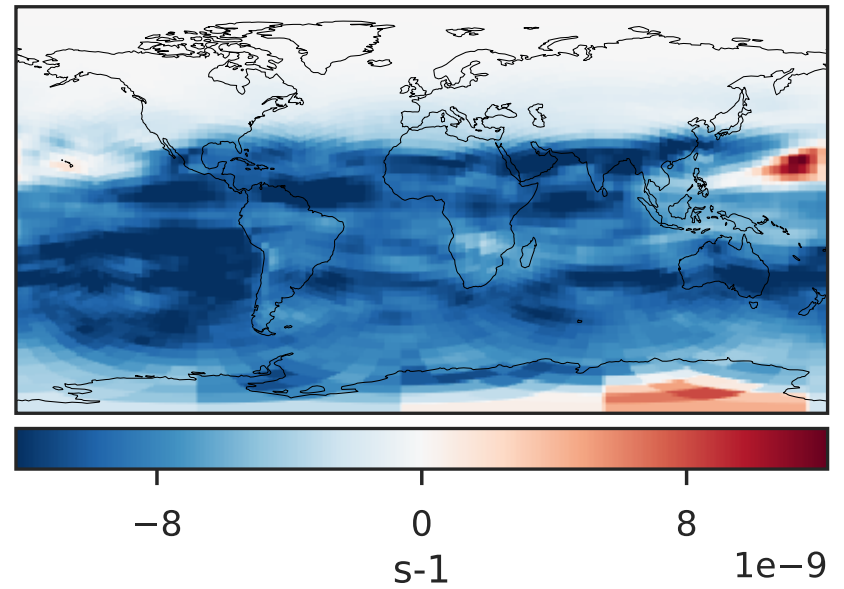
GCHP_14.2.0 (Dev)
c24



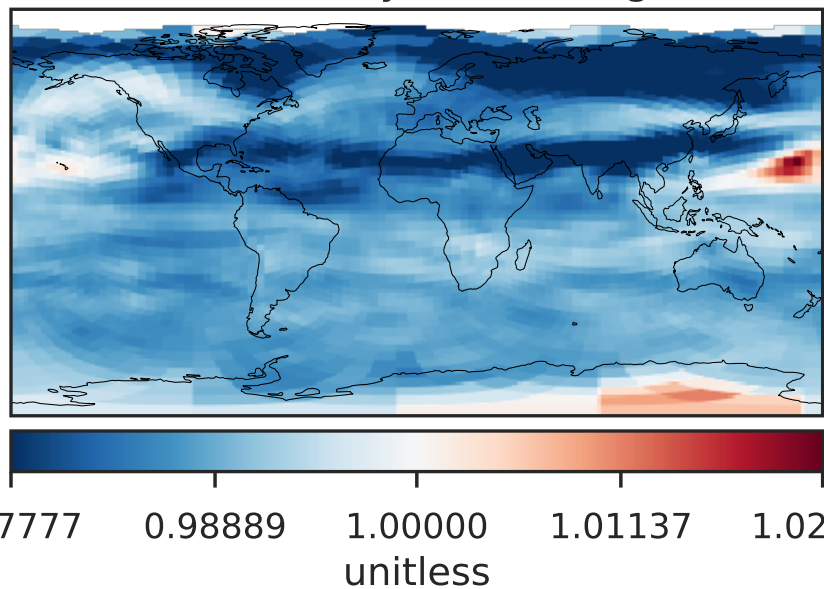
Difference (1x1.25)
Dev - Ref, Dynamic Range



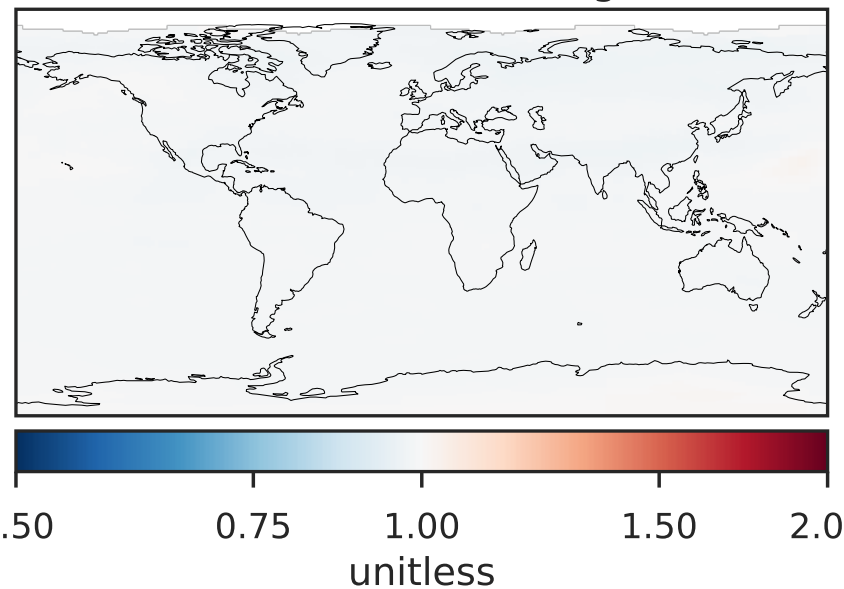
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

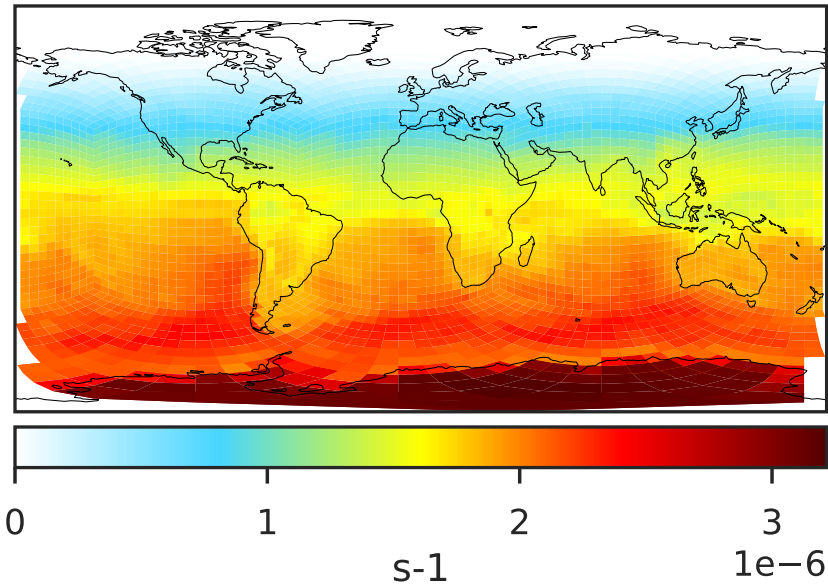


Ratio (1x1.25)
Dev/Ref, Fixed Range

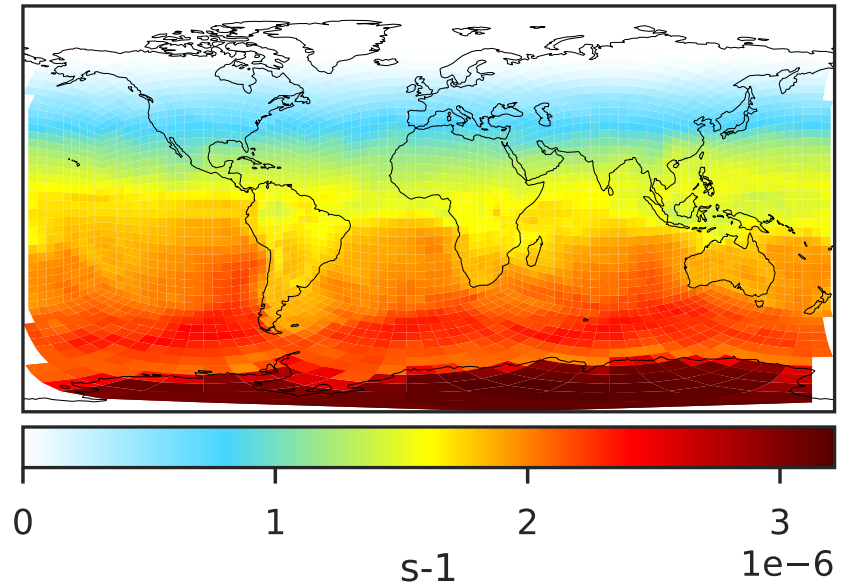


Jval_ETP (Jan2019)

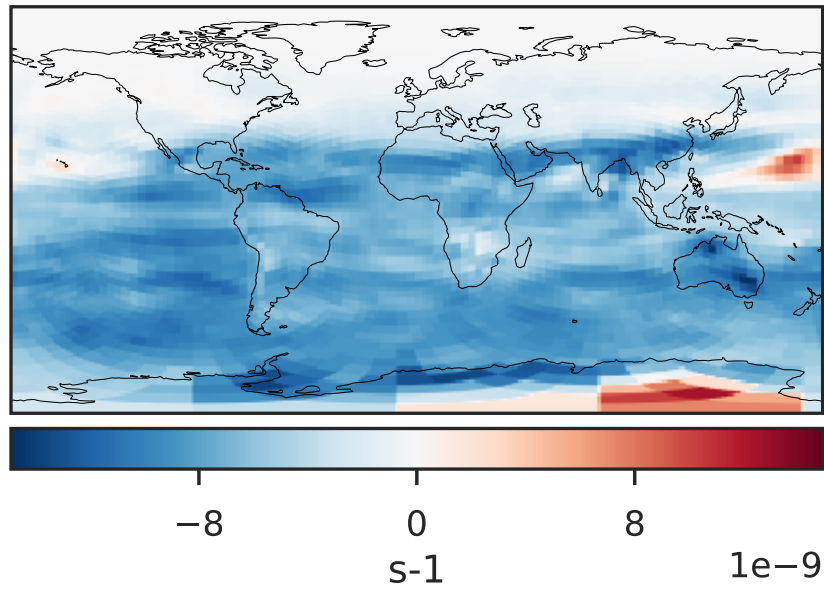
GCHP_14.0.0 (Ref)
c24



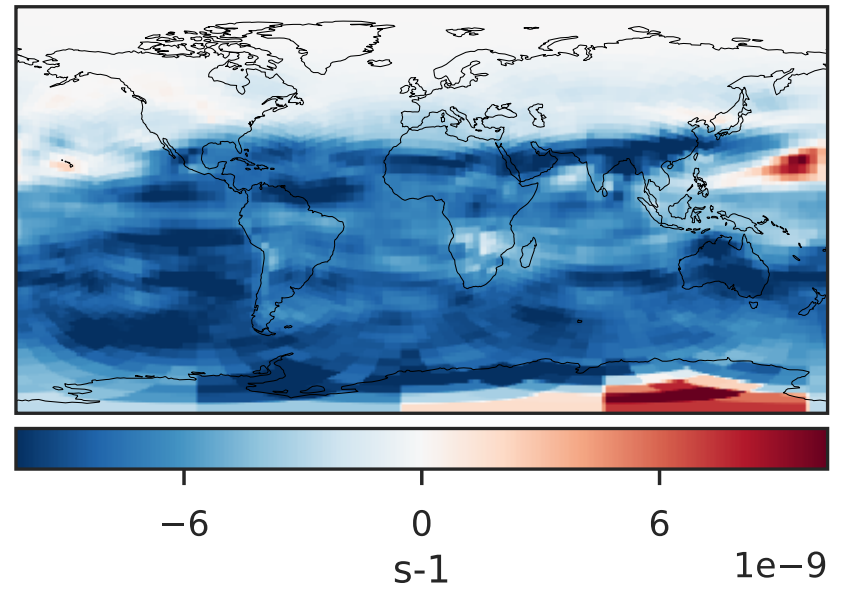
GCHP_14.2.0 (Dev)
c24



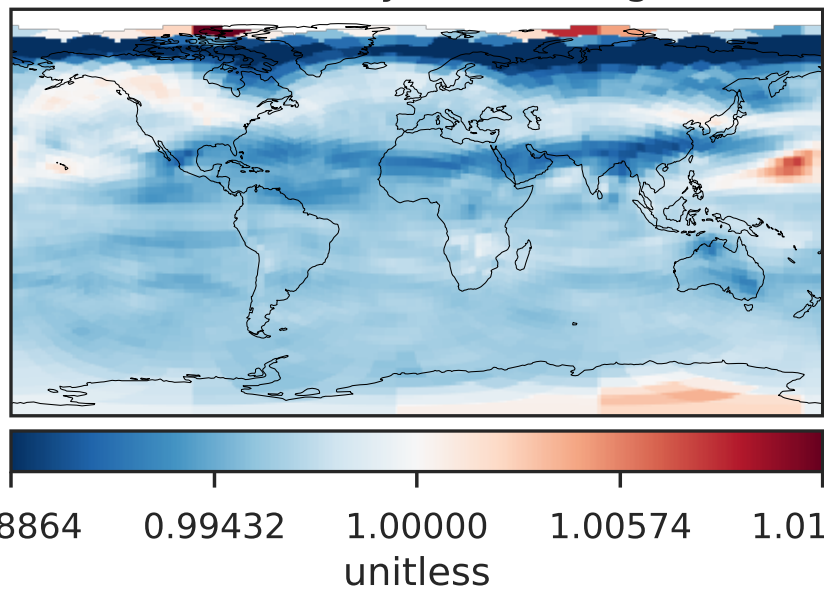
Difference (1x1.25)
Dev - Ref, Dynamic Range



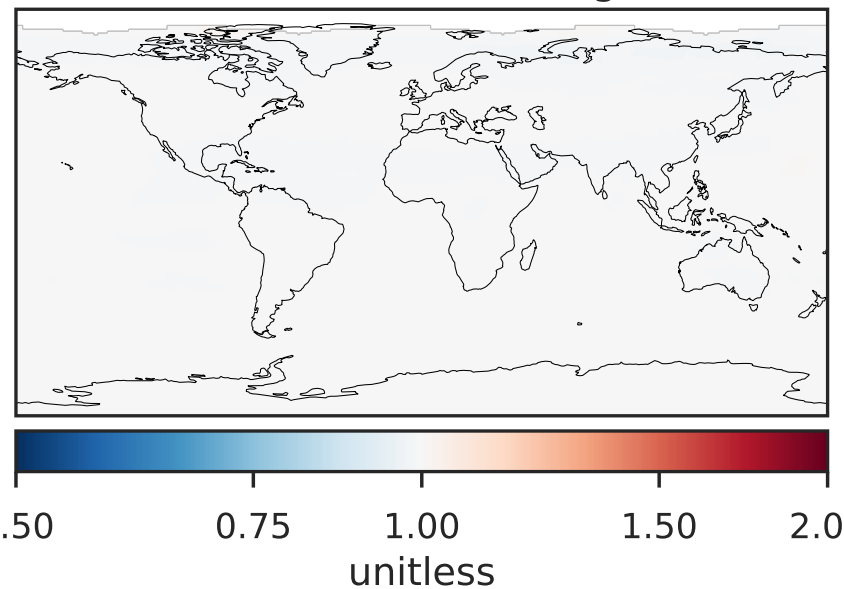
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

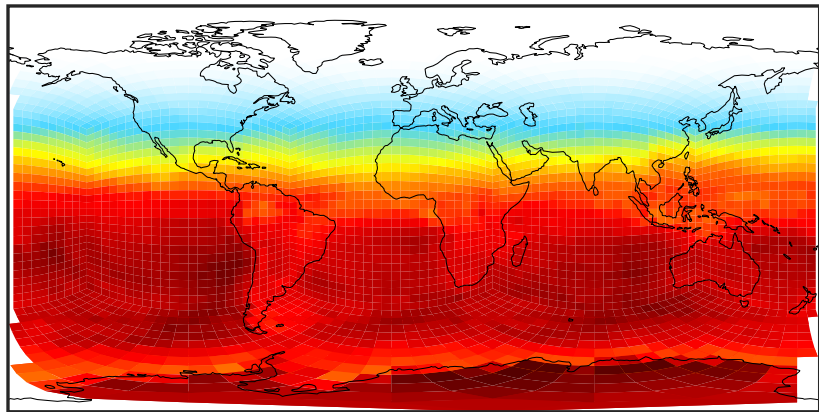


Ratio (1x1.25)
Dev/Ref, Fixed Range



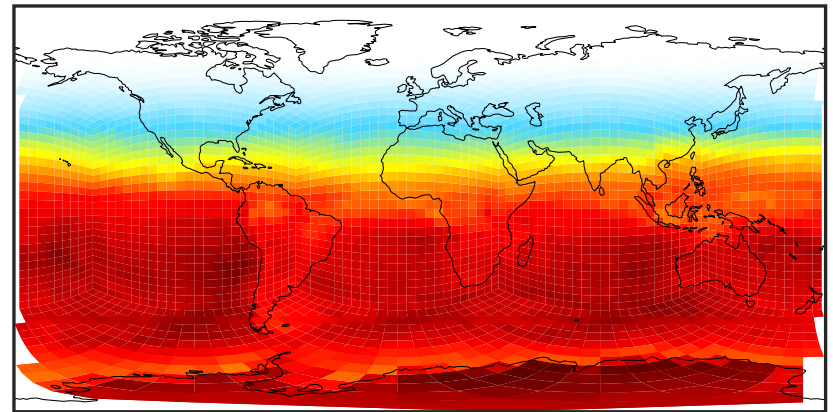
Jval_GLYC (Jan2019)

GCHP_14.0.0 (Ref)
c24



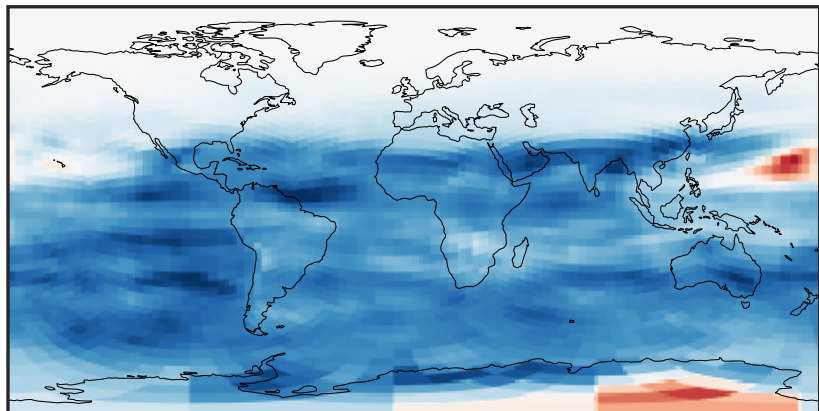
0.0 2.5 5.0 7.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



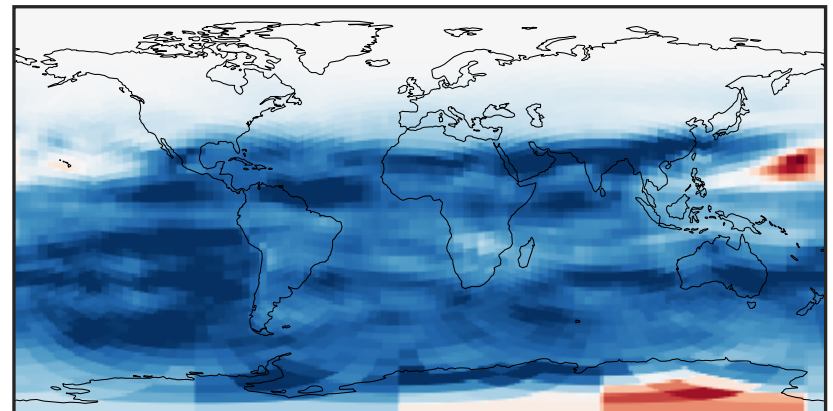
0.0 2.5 5.0 7.5
s-1 $1e-6$

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



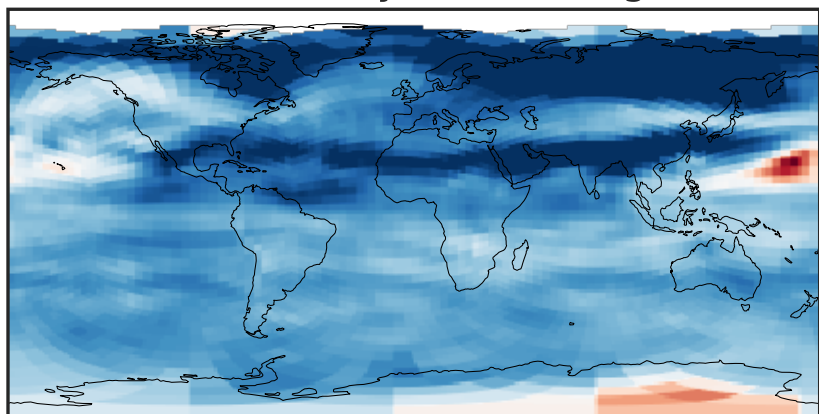
-8 0 8
s-1 $1e-8$

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



-6 0 6
s-1 $1e-8$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.97828 0.98914 1.00000 1.01110 1.02221
unitless

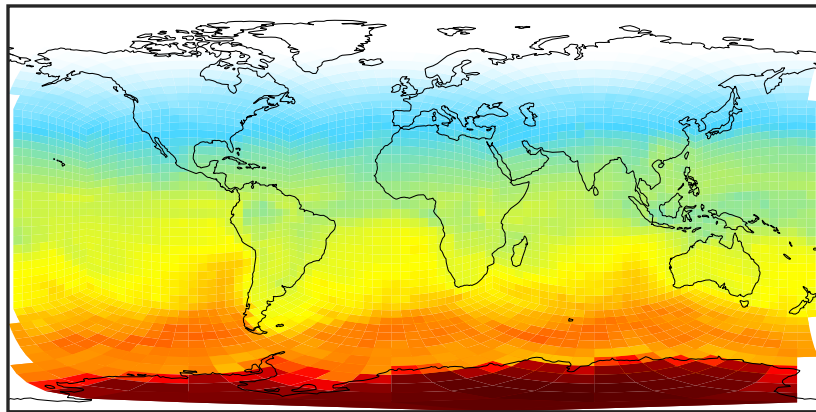
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

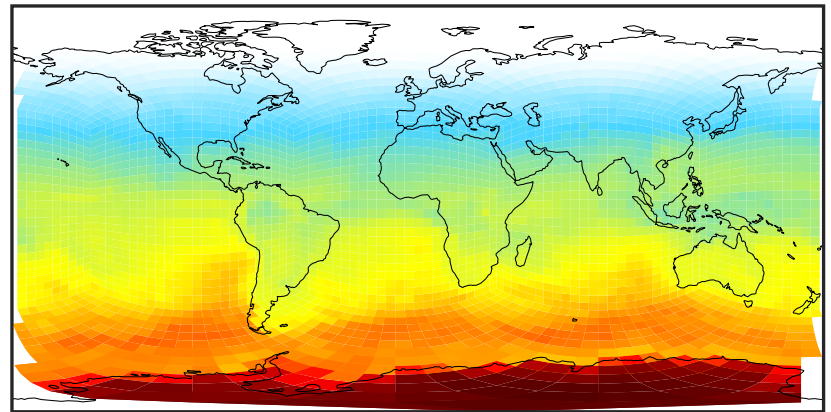
Jval_GLYX (Jan2019)

GCHP_14.0.0 (Ref)
c24



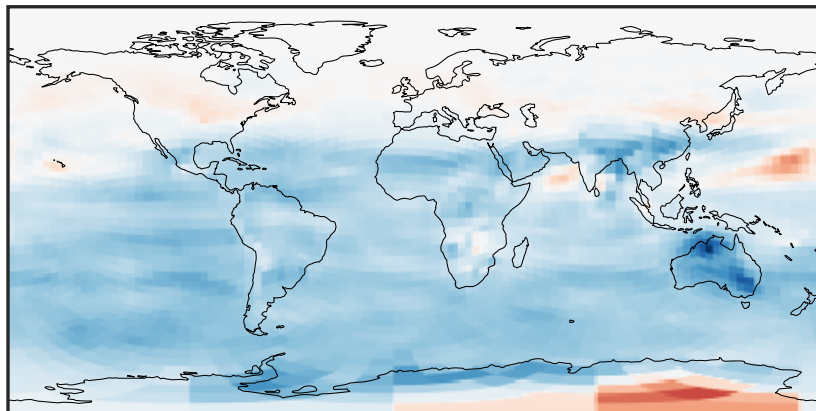
0.00000 0.00006 0.00012 0.00018
s-1

GCHP_14.2.0 (Dev)
c24



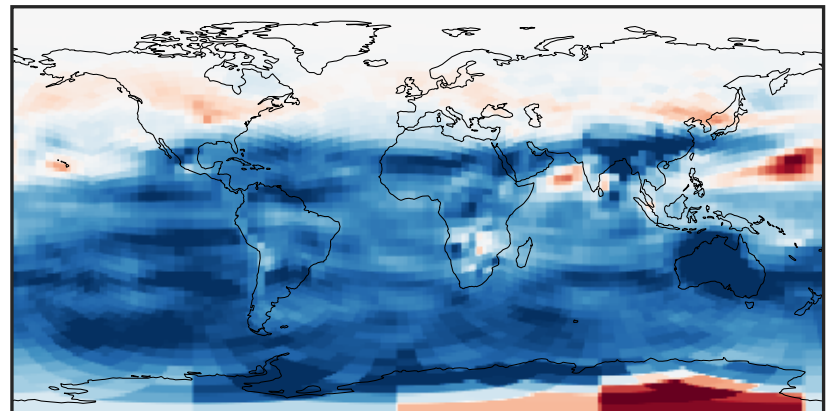
0.00000 0.00006 0.00012 0.00018
s-1

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



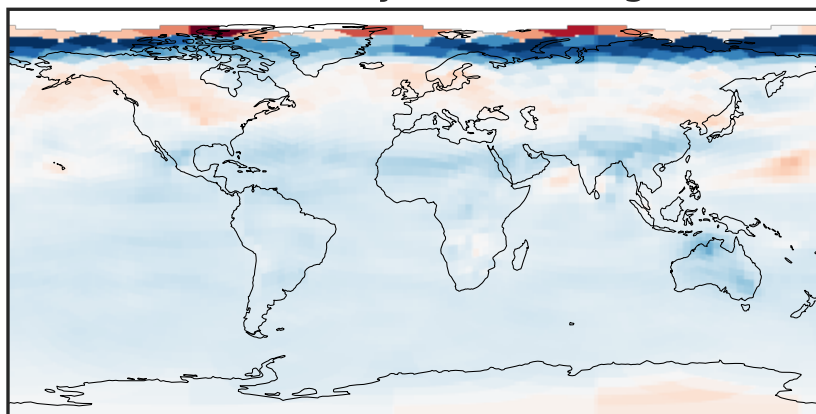
-4 0 4
s-1 $1e-7$

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



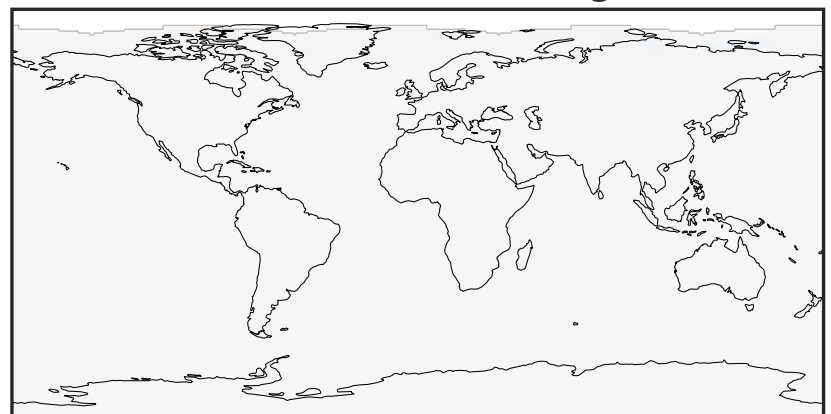
-1.5 0.0 1.5
s-1 $1e-7$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98691 0.99346 1.00000 1.00663 1.01326
unitless

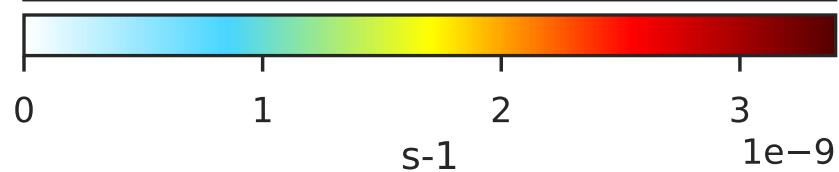
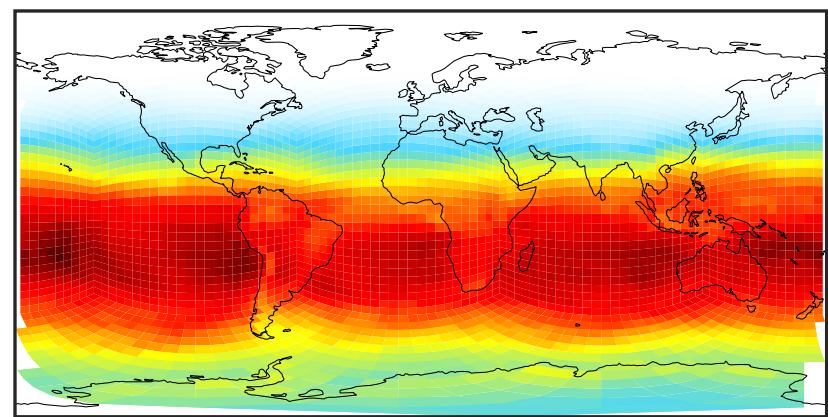
Ratio (1x1.25)
Dev/Ref, Fixed Range



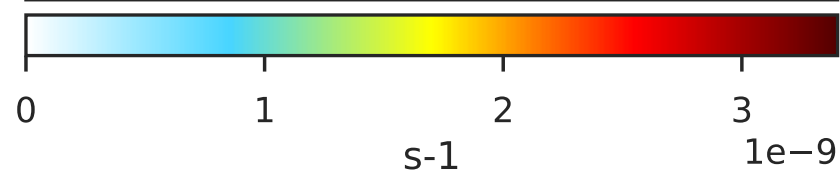
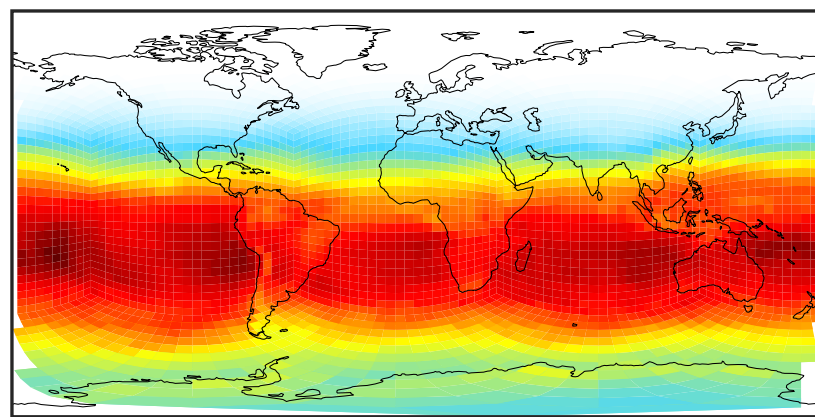
0.50 0.75 1.00 1.50 2.00
unitless

Jval_H1211 (Jan2019)

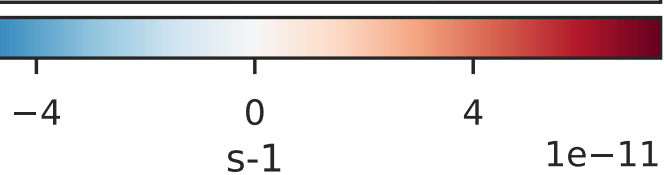
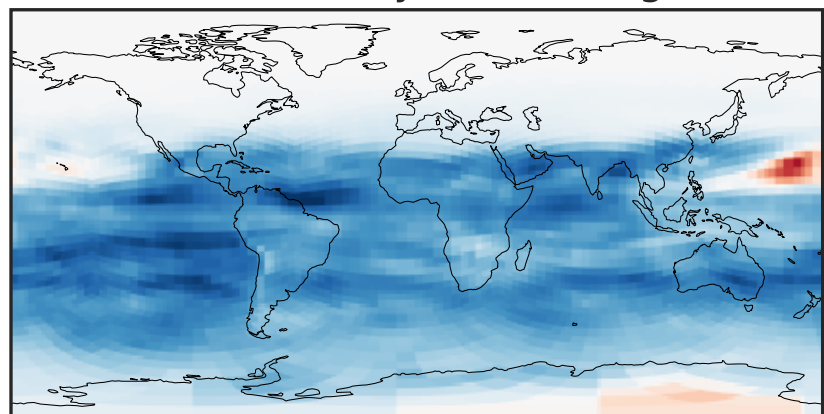
GCHP_14.0.0 (Ref)
c24



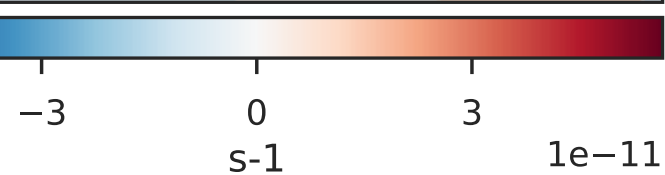
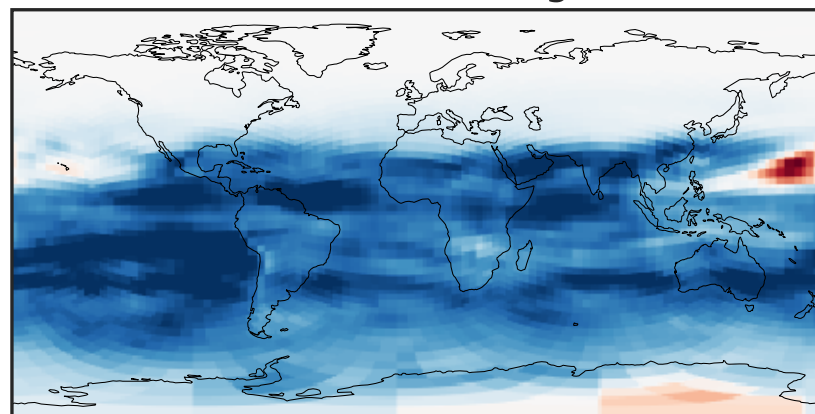
GCHP_14.2.0 (Dev)
c24



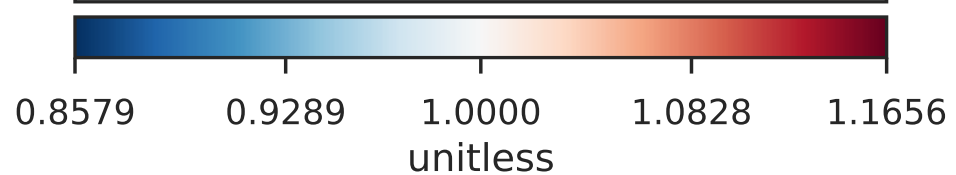
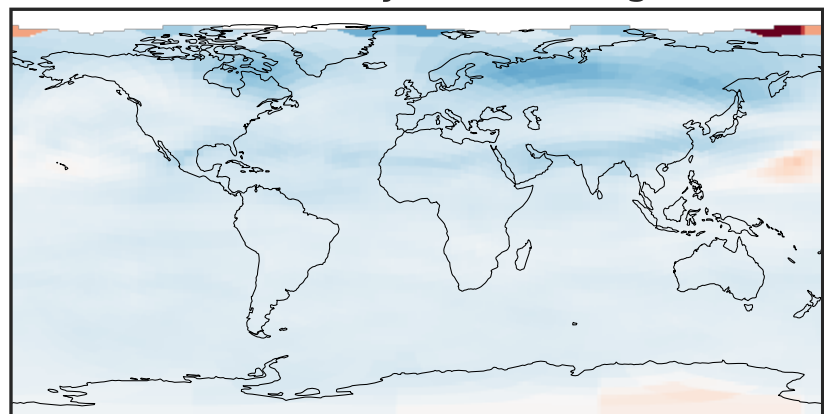
Difference (1x1.25)
Dev - Ref, Dynamic Range



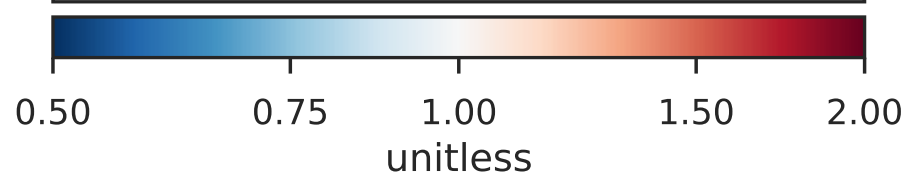
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

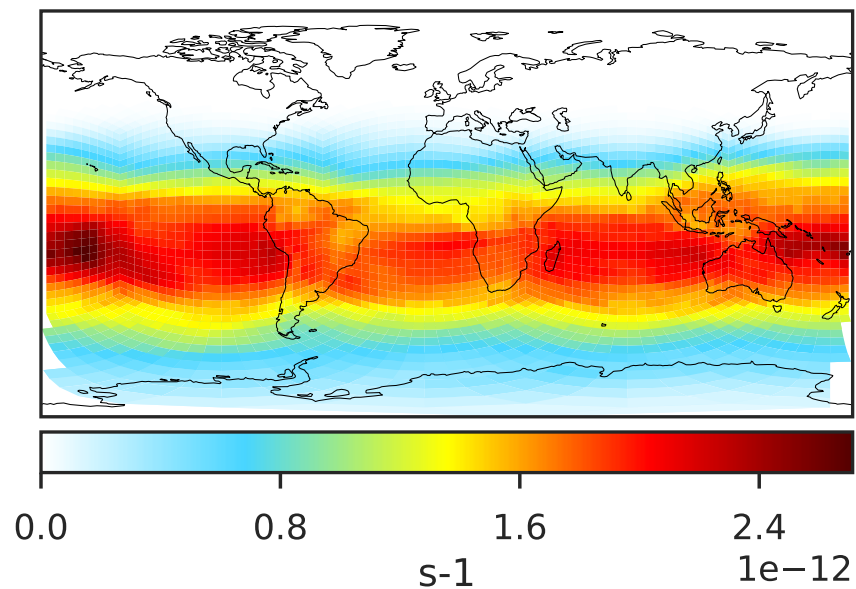


Ratio (1x1.25)
Dev/Ref, Fixed Range

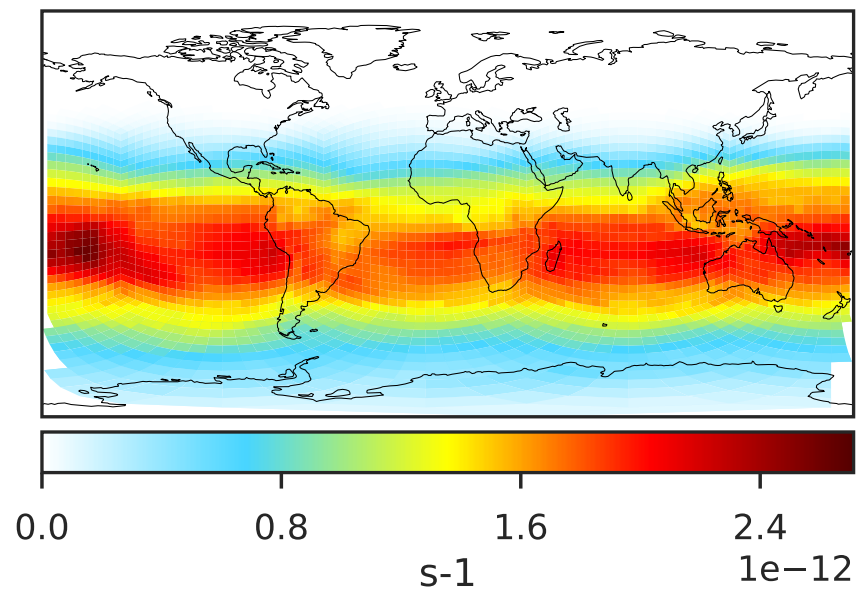


Jval_H1301 (Jan2019)

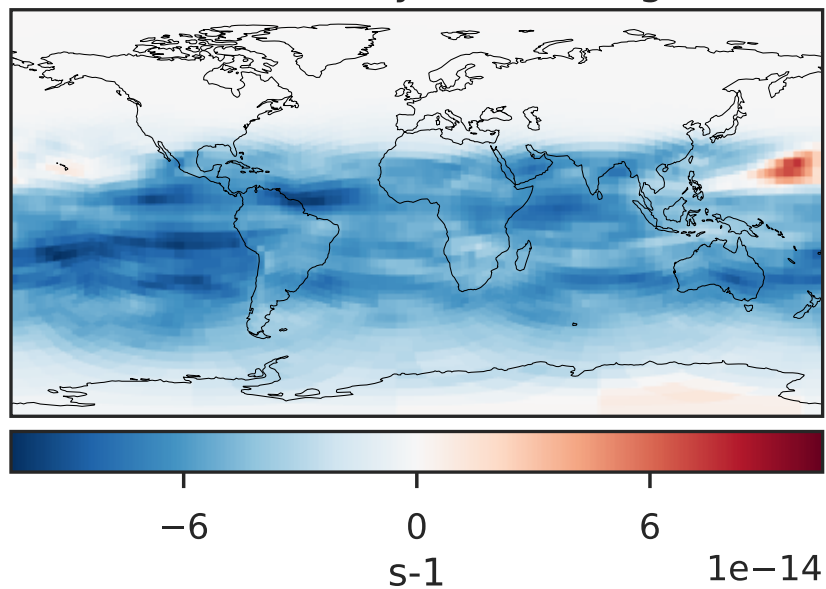
GCHP_14.0.0 (Ref)
c24



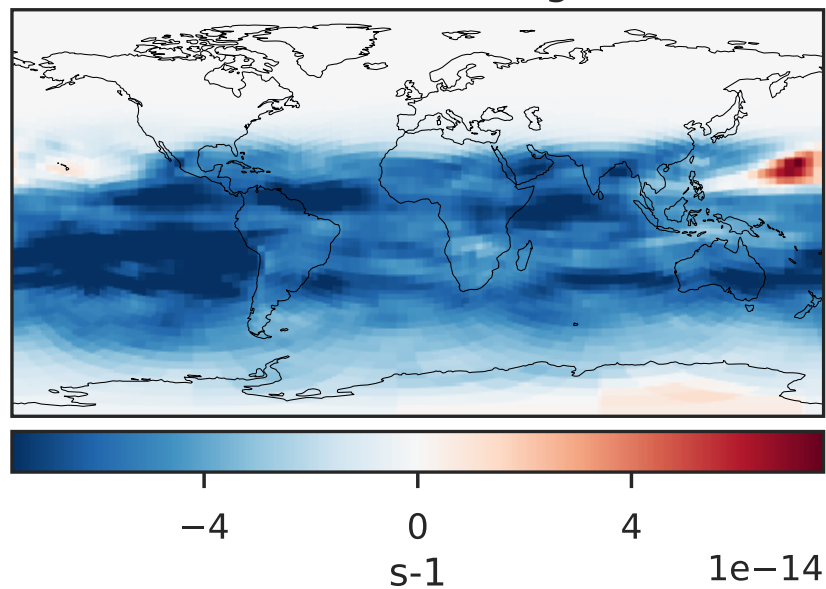
GCHP_14.2.0 (Dev)
c24



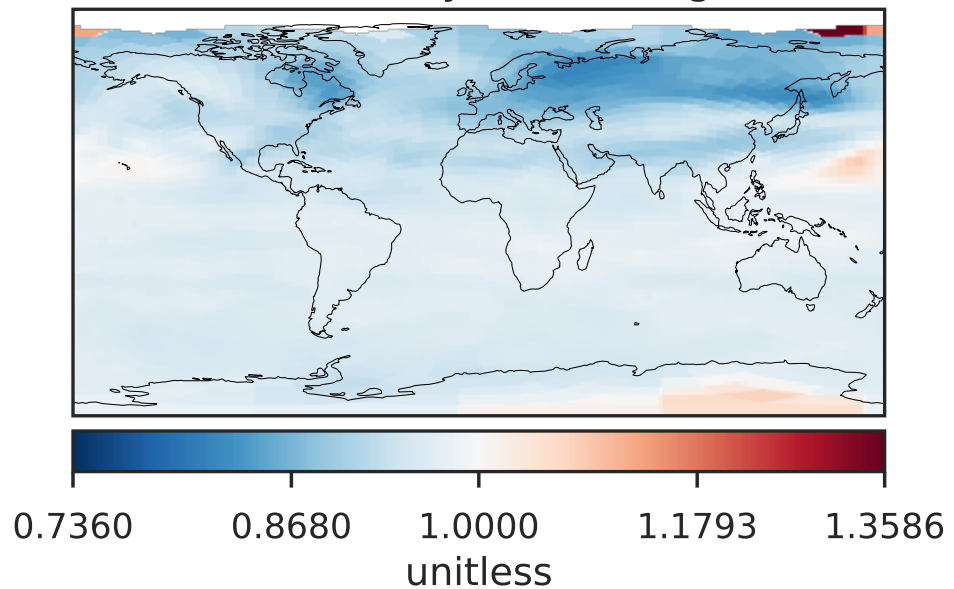
Difference (1x1.25)
Dev - Ref, Dynamic Range



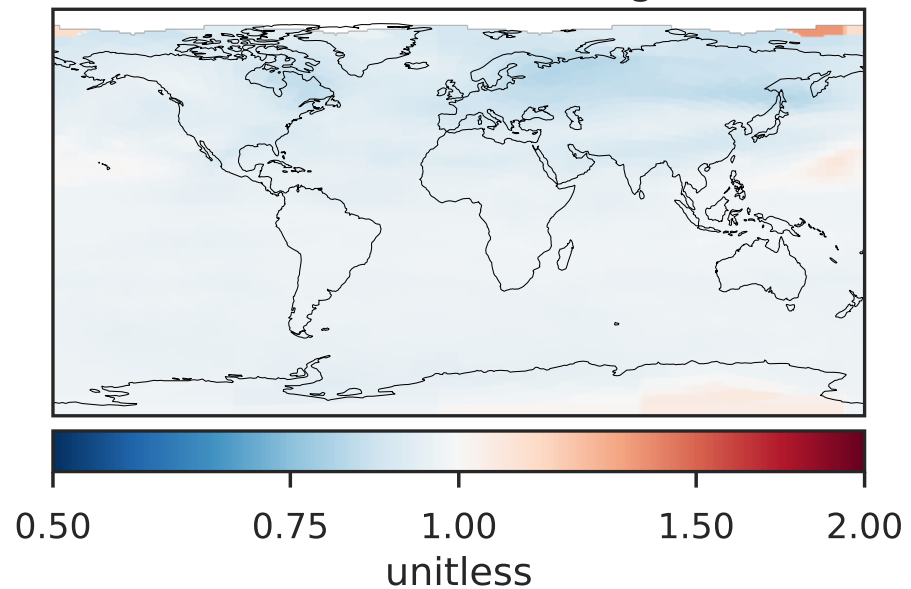
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

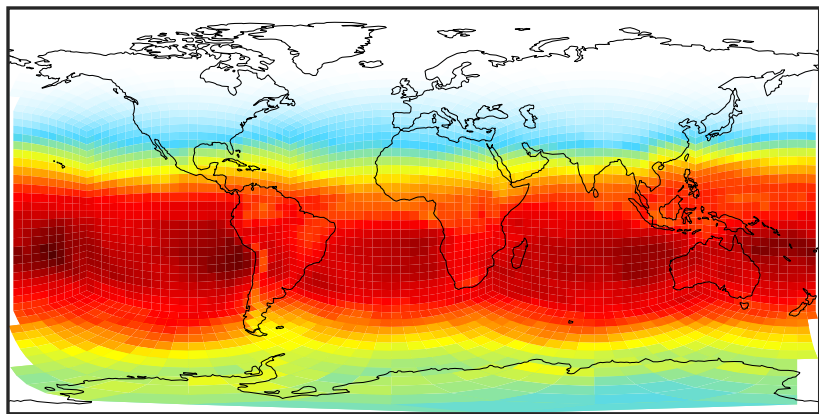


Ratio (1x1.25)
Dev/Ref, Fixed Range



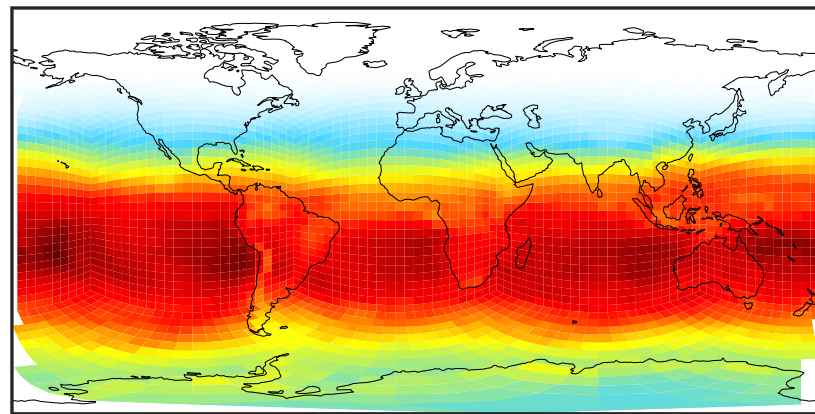
Jval_H2402 (Jan2019)

GCHP_14.0.0 (Ref)
c24



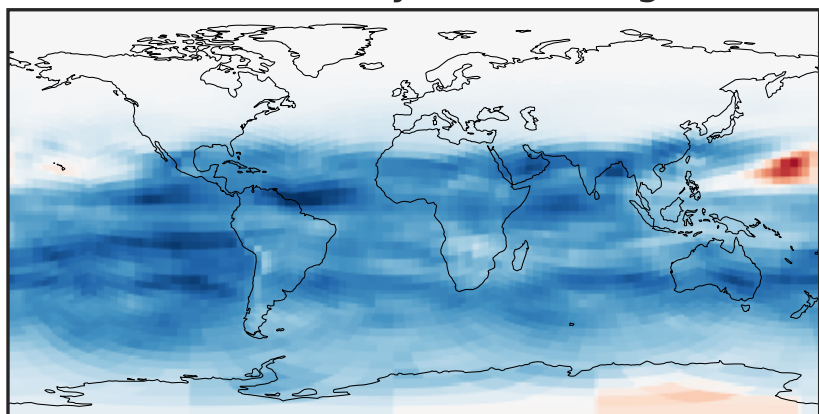
0.0 0.5 1.0 1.5 $1e-9$
s-1

GCHP_14.2.0 (Dev)
c24



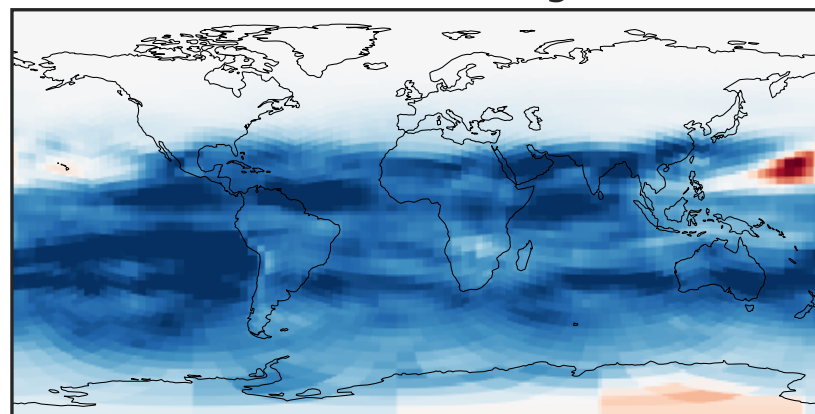
0.0 0.5 1.0 1.5 $1e-9$
s-1

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



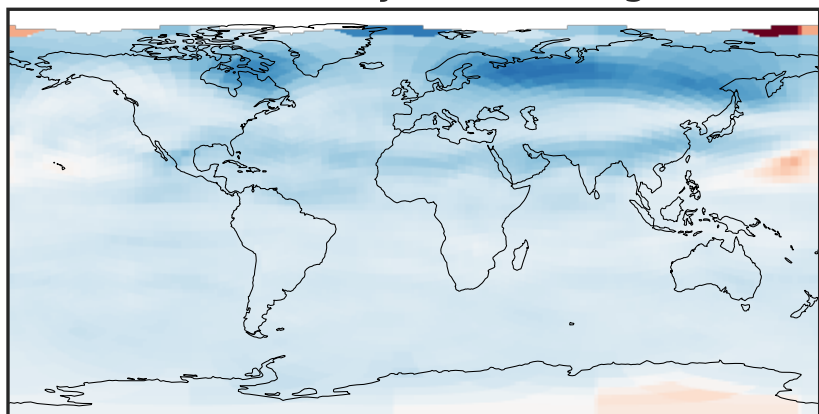
-2 0 2 $1e-11$
s-1

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



-1.5 0.0 1.5 $1e-11$
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.9095 0.9547 1.0000 1.0498 1.0995
unitless

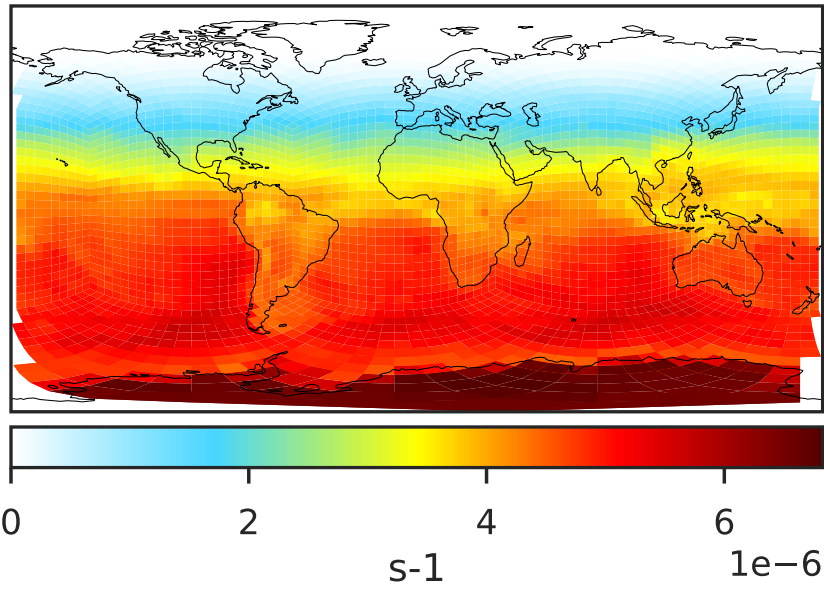
Ratio (1x1.25)
Dev/Ref, Fixed Range



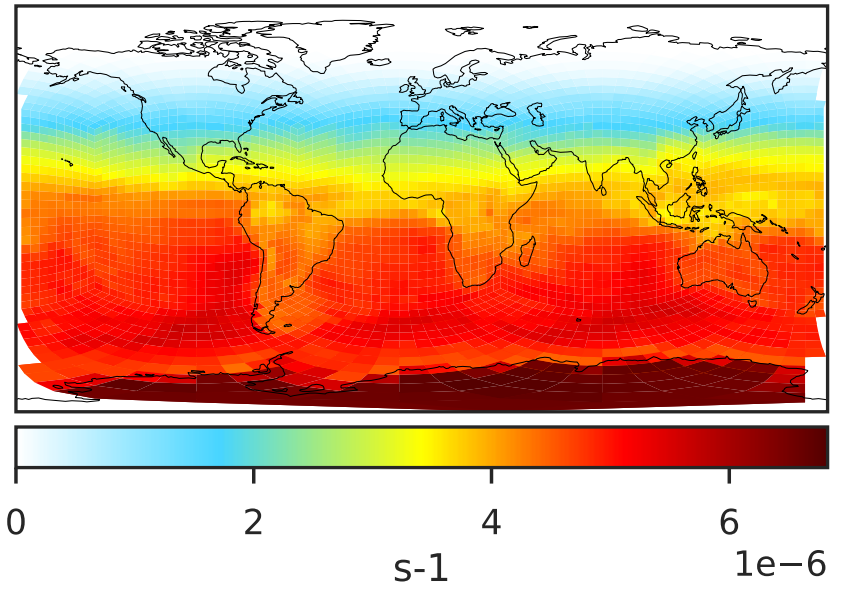
0.50 0.75 1.00 1.50 2.00
unitless

Jval_H2O2 (Jan2019)

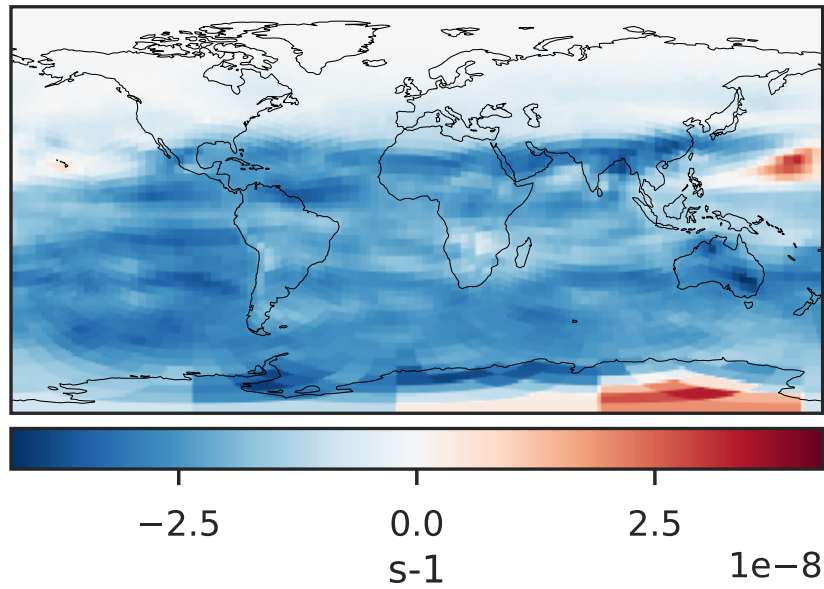
GCHP_14.0.0 (Ref)
c24



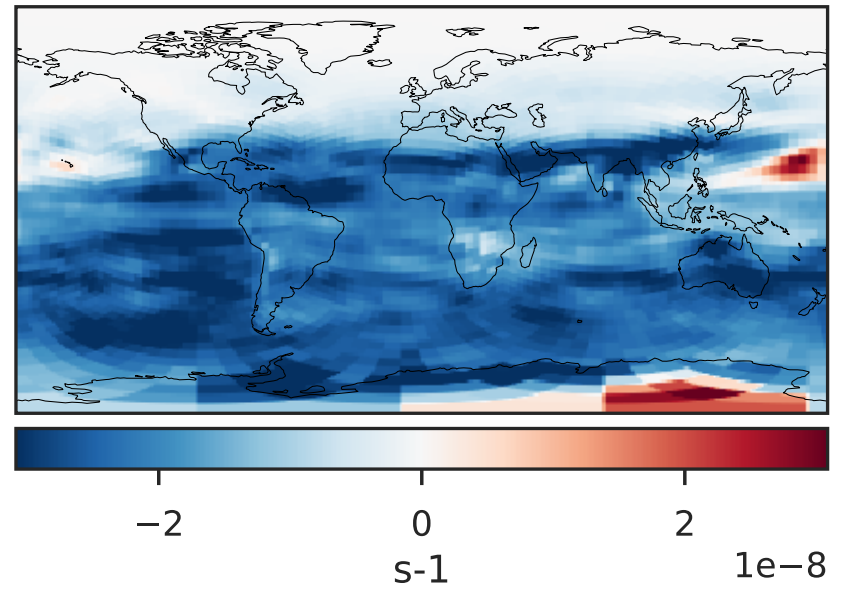
GCHP_14.2.0 (Dev)
c24



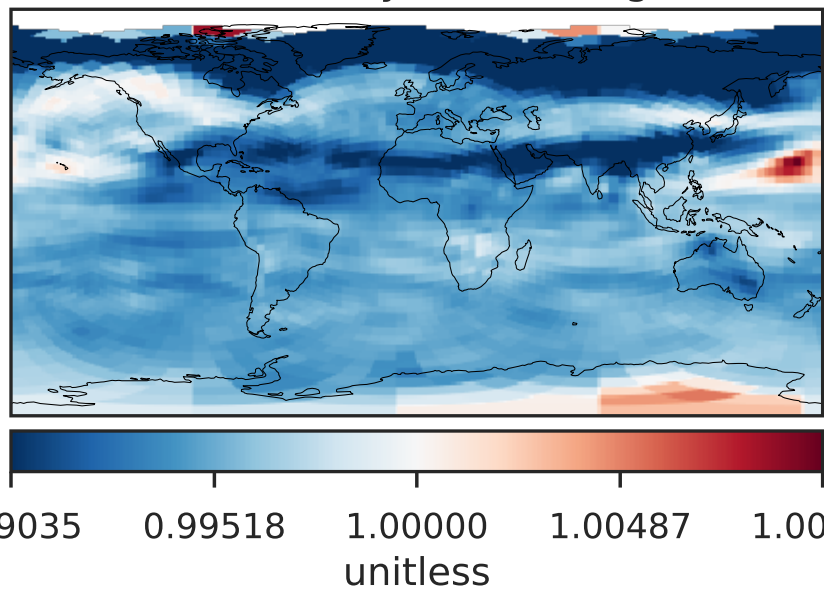
Difference (1x1.25)
Dev - Ref, Dynamic Range



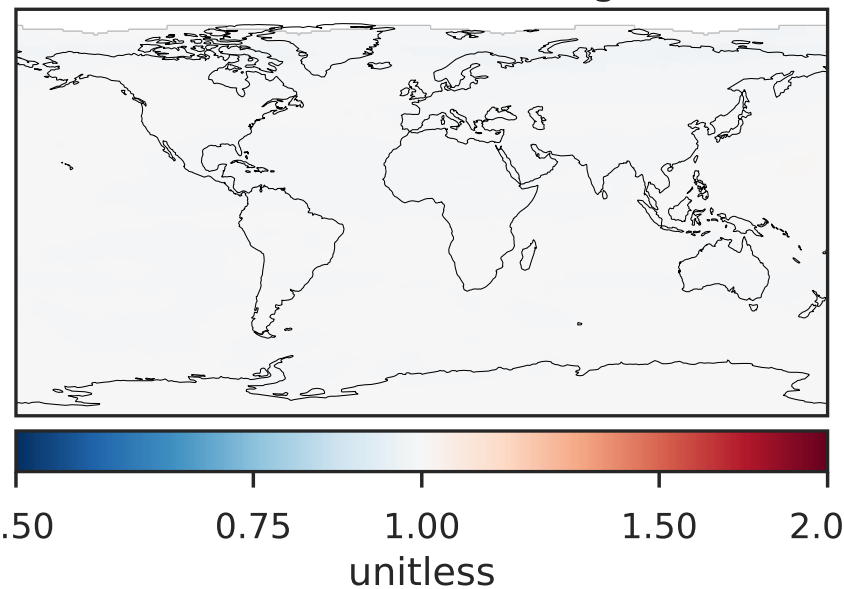
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

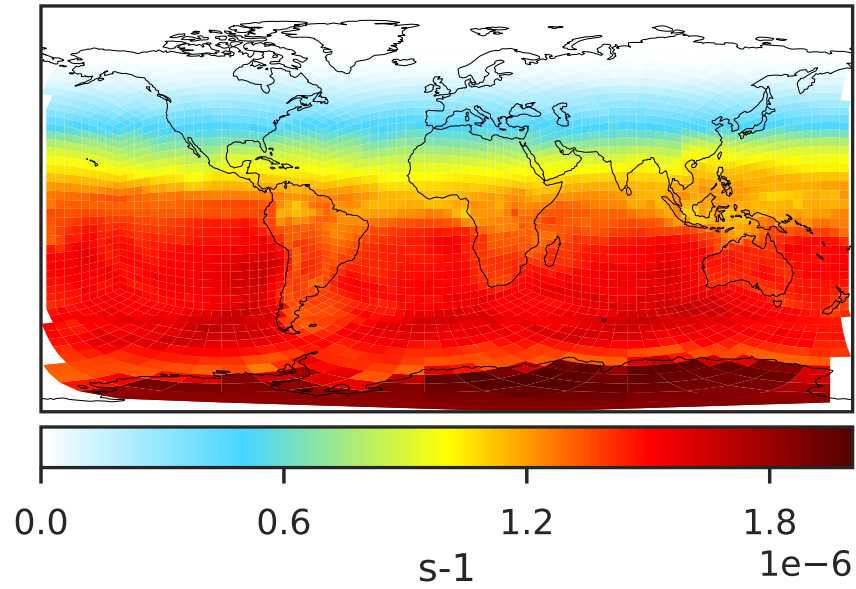


Ratio (1x1.25)
Dev/Ref, Fixed Range

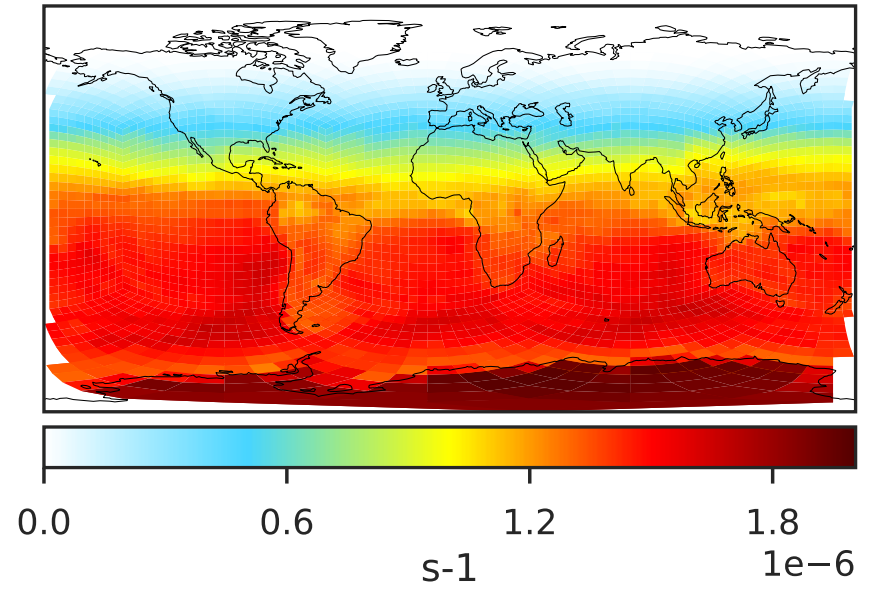


Jval_HAC (Jan2019)

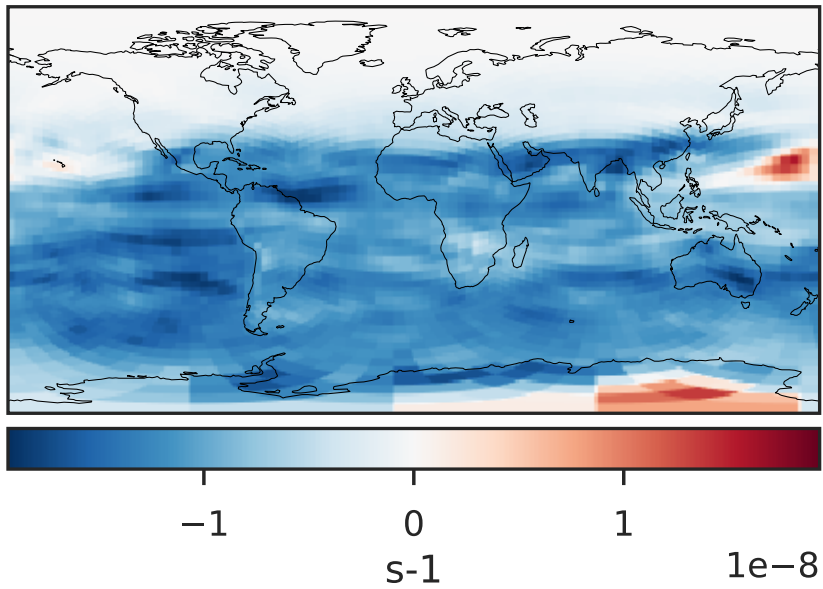
GCHP_14.0.0 (Ref)
c24



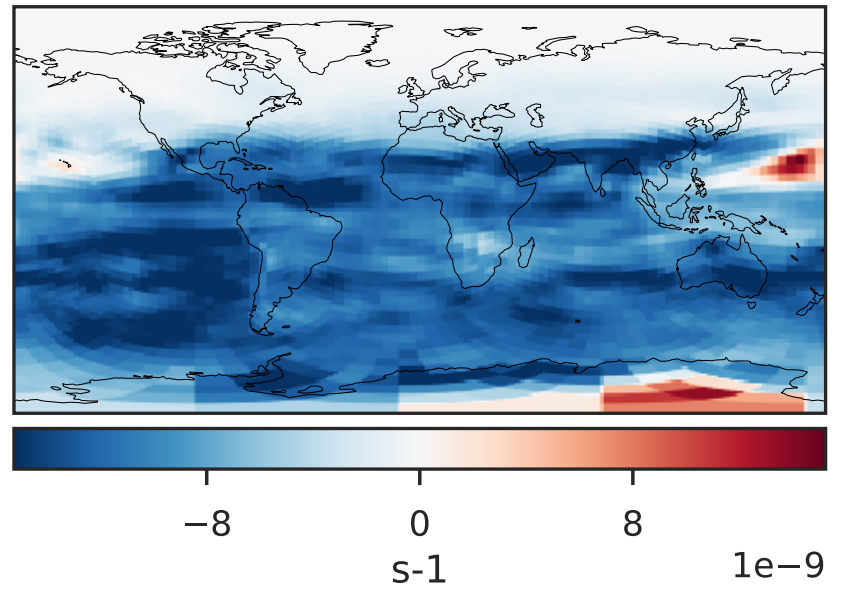
GCHP_14.2.0 (Dev)
c24



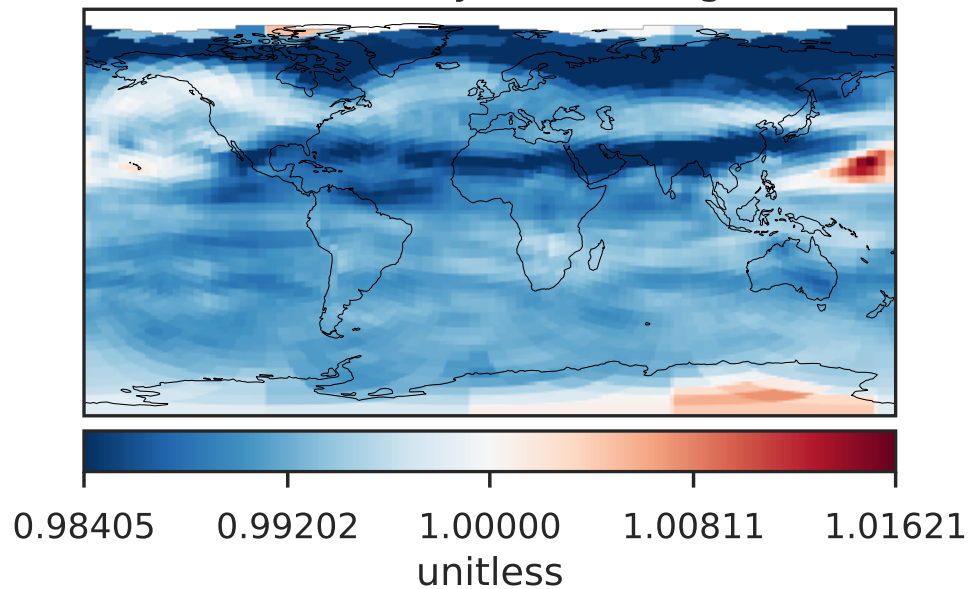
Difference (1x1.25)
Dev - Ref, Dynamic Range



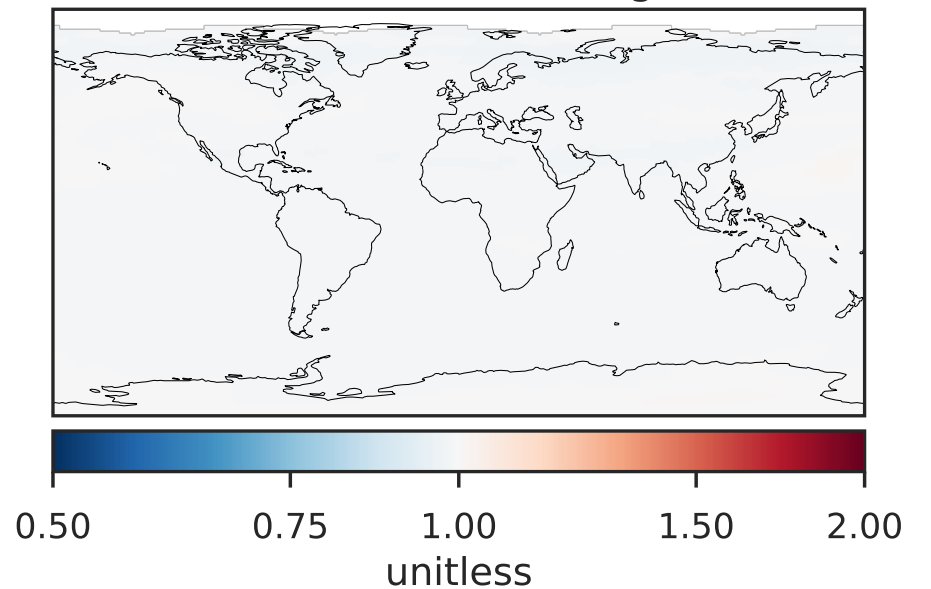
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

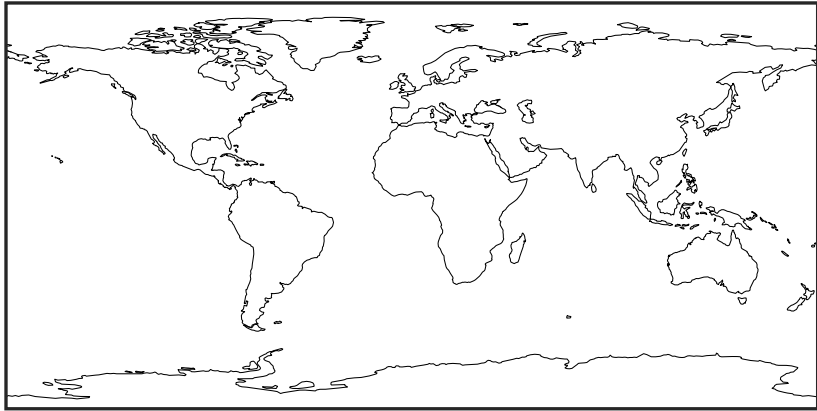


Ratio (1x1.25)
Dev/Ref, Fixed Range



Jval_HC5A (Jan2019)

GCHP_14.0.0 (Ref)
c24



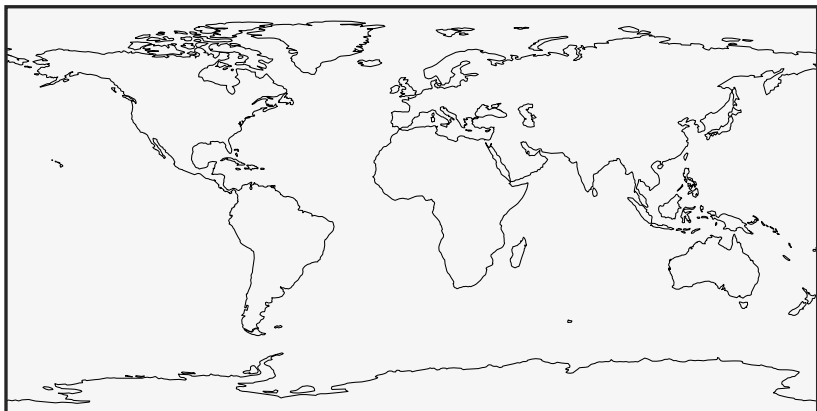
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



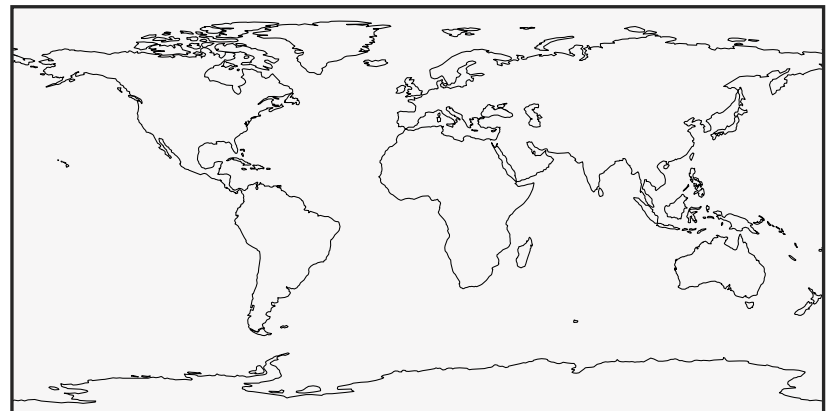
Zero throughput domain
s-1

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



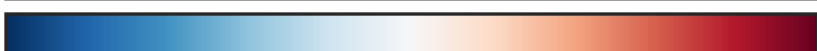
Zero throughput domain
s-1

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



Zero throughput domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

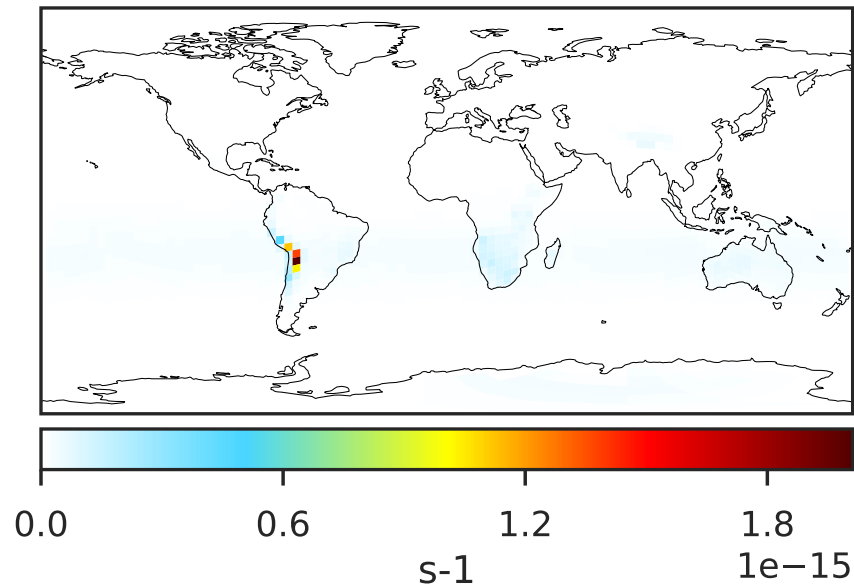
Ratio (1x1.25)
Dev/Ref, Fixed Range



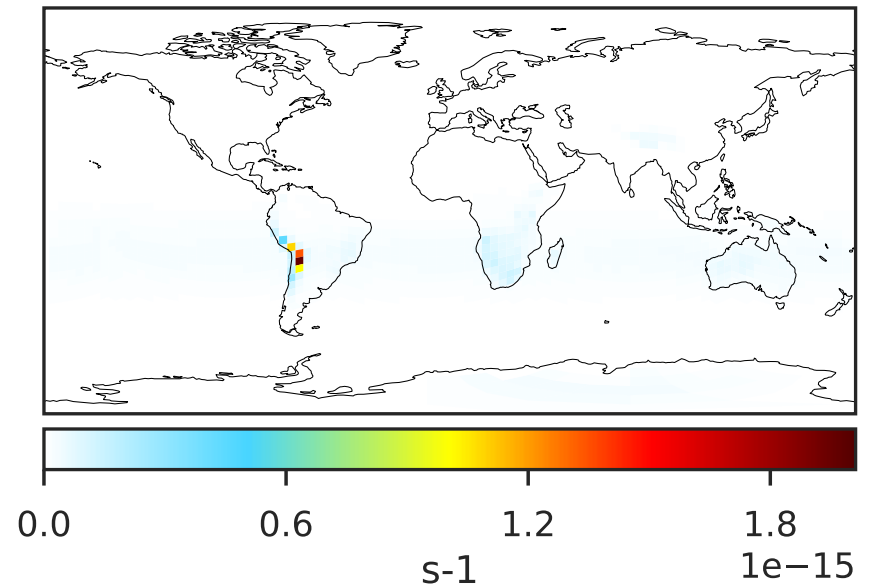
Undefined throughput domain
unitless

Jval_HCFC123 (Jan2019)

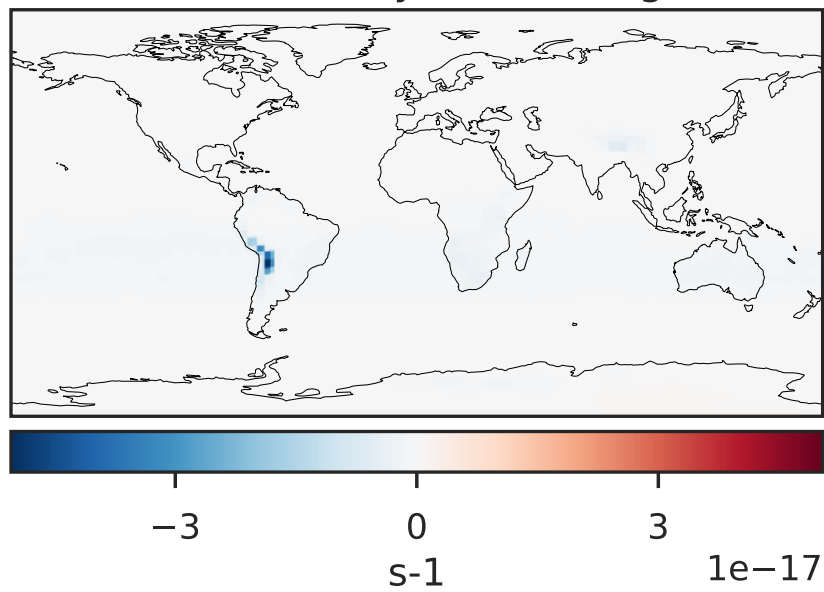
GCHP_14.0.0 (Ref)
c24



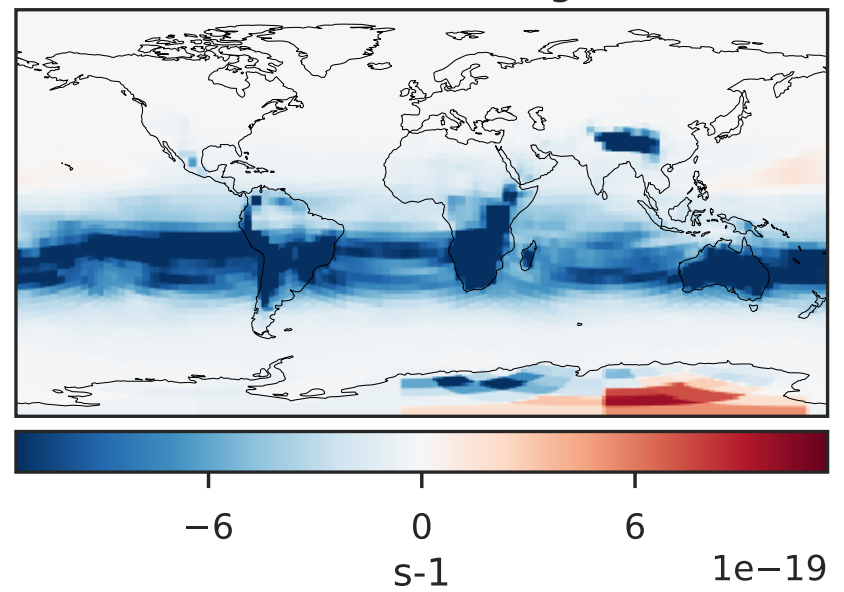
GCHP_14.2.0 (Dev)
c24



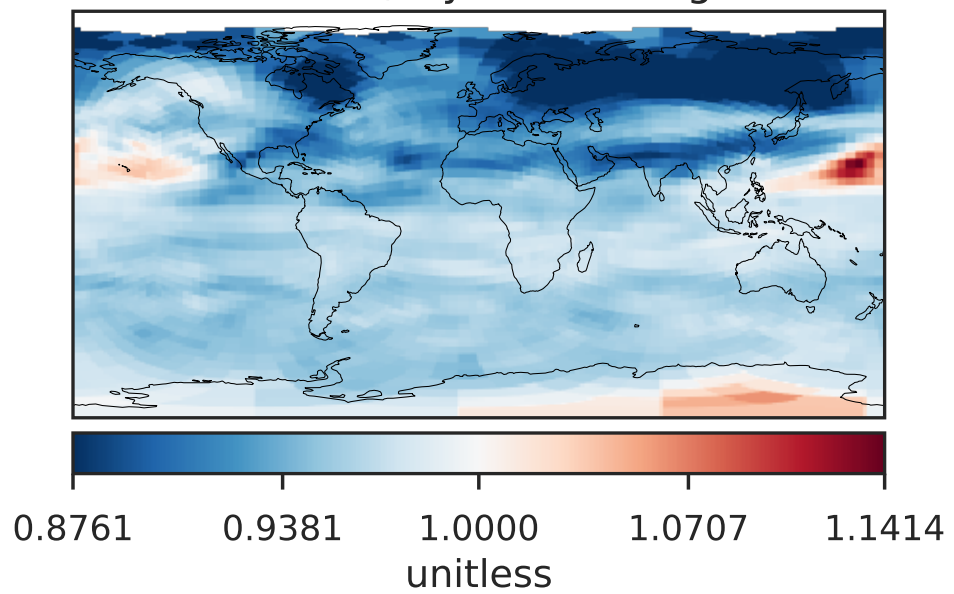
Difference (1x1.25)
Dev - Ref, Dynamic Range



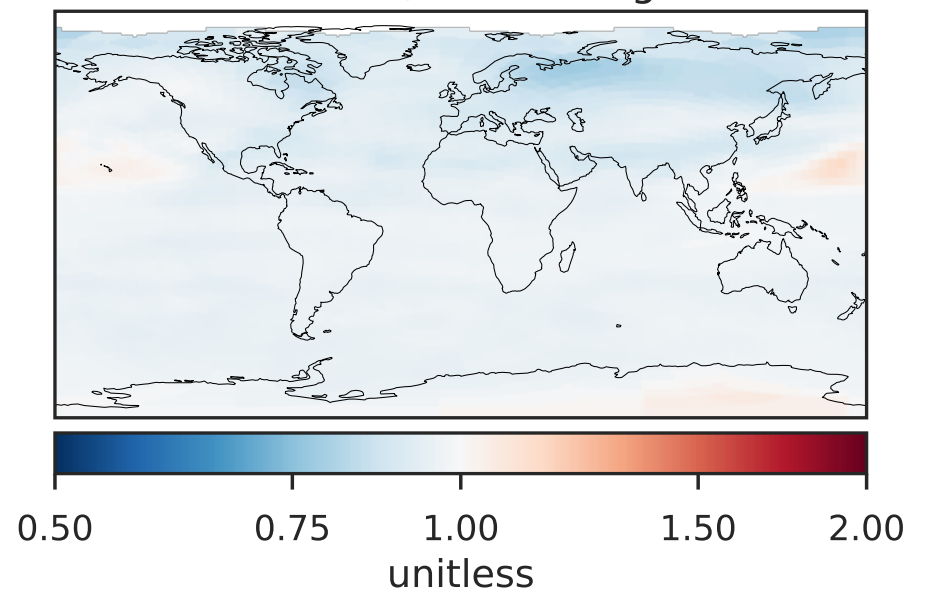
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

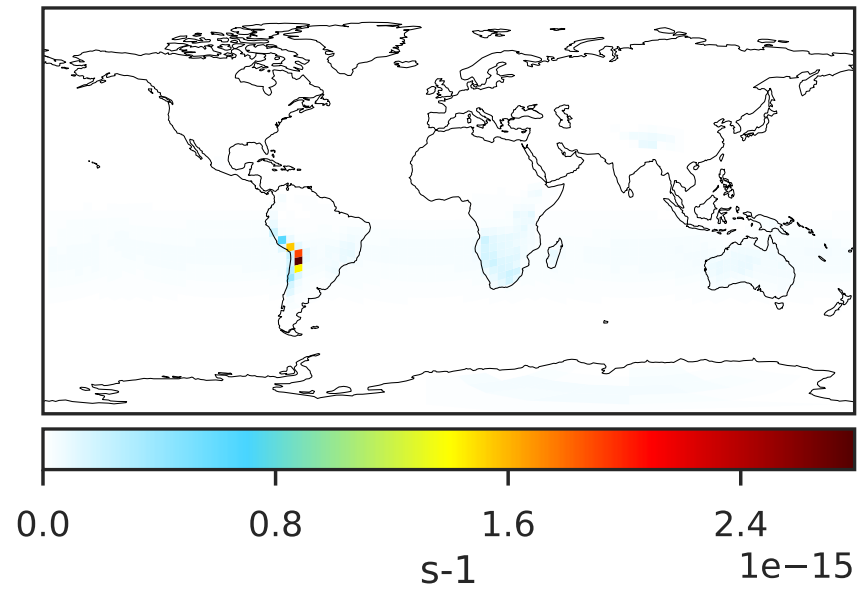


Ratio (1x1.25)
Dev/Ref, Fixed Range

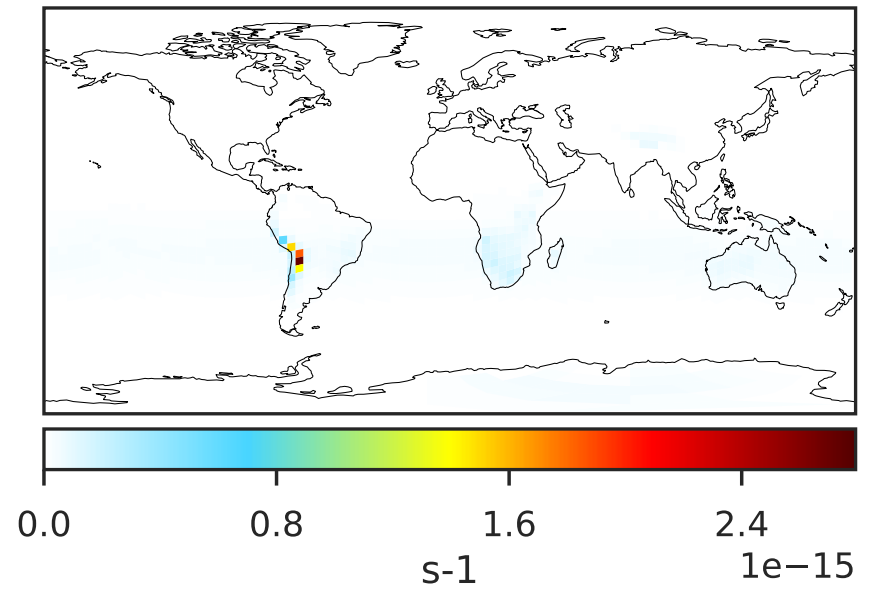


Jval_HCFC141b (Jan2019)

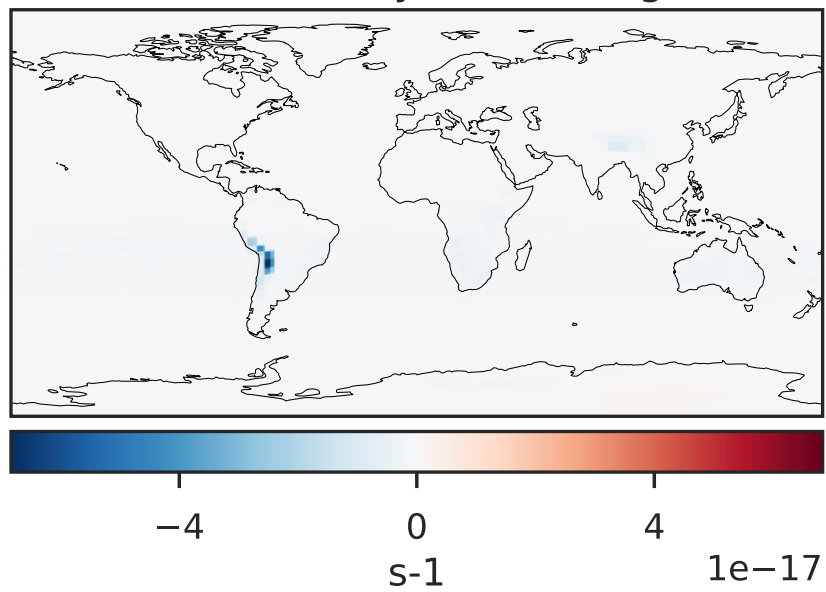
GCHP_14.0.0 (Ref)
c24



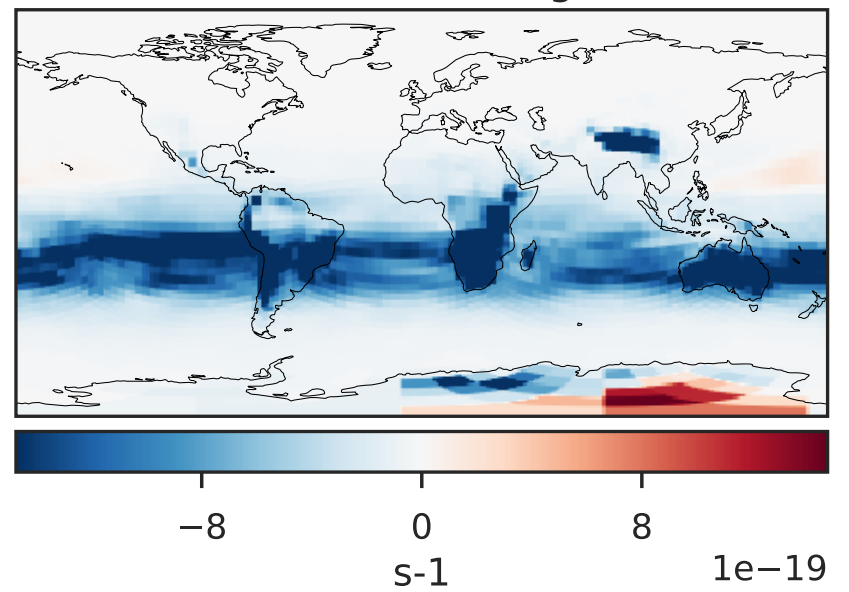
GCHP_14.2.0 (Dev)
c24



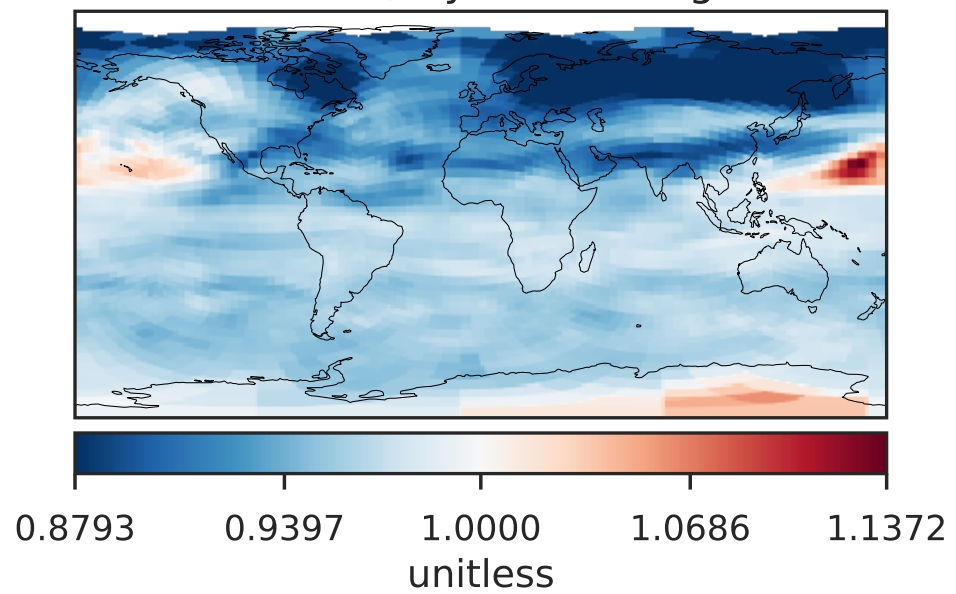
Difference (1x1.25)
Dev - Ref, Dynamic Range



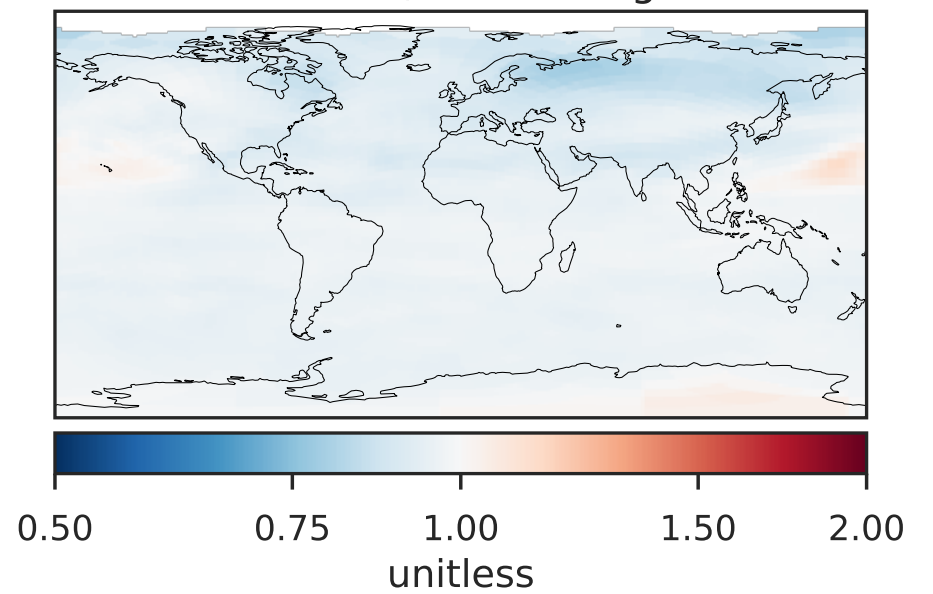
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

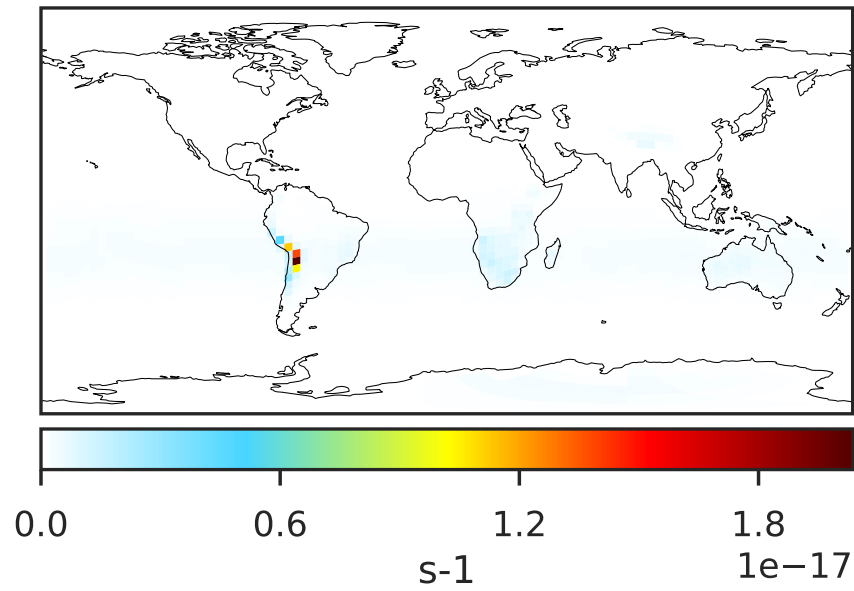


Ratio (1x1.25)
Dev/Ref, Fixed Range

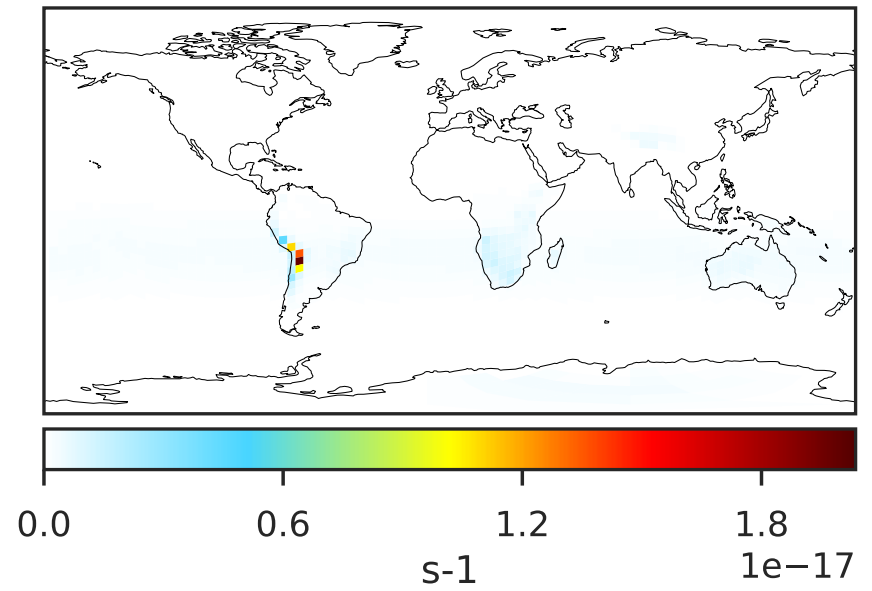


Jval_HCFC142b (Jan2019)

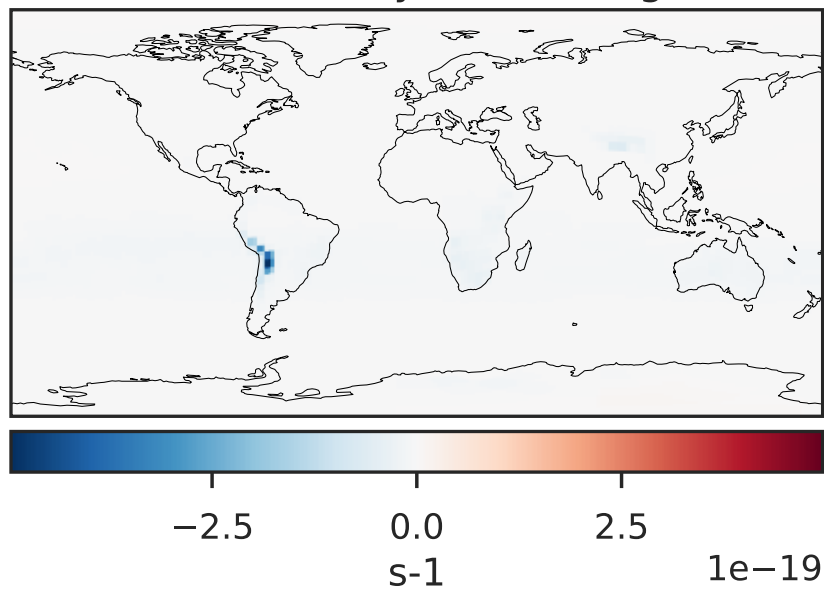
GCHP_14.0.0 (Ref)
c24



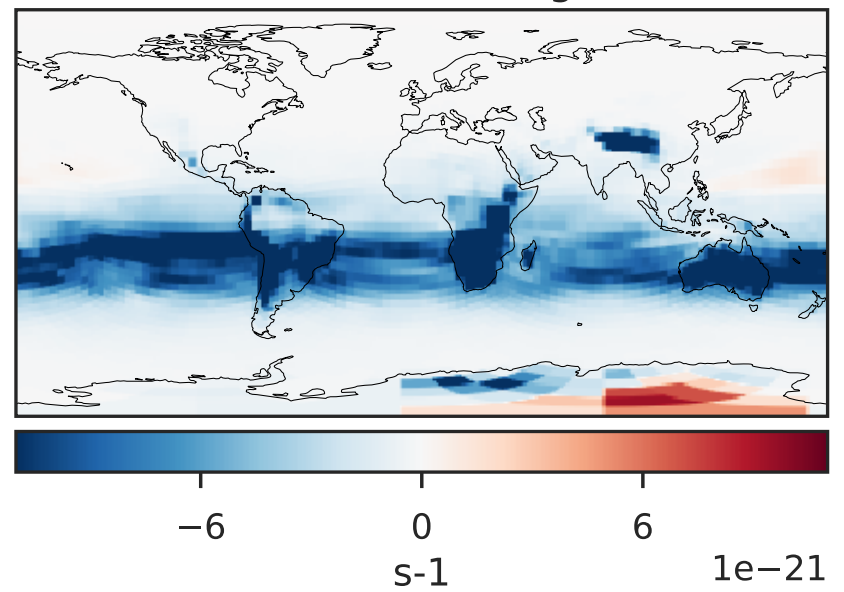
GCHP_14.2.0 (Dev)
c24



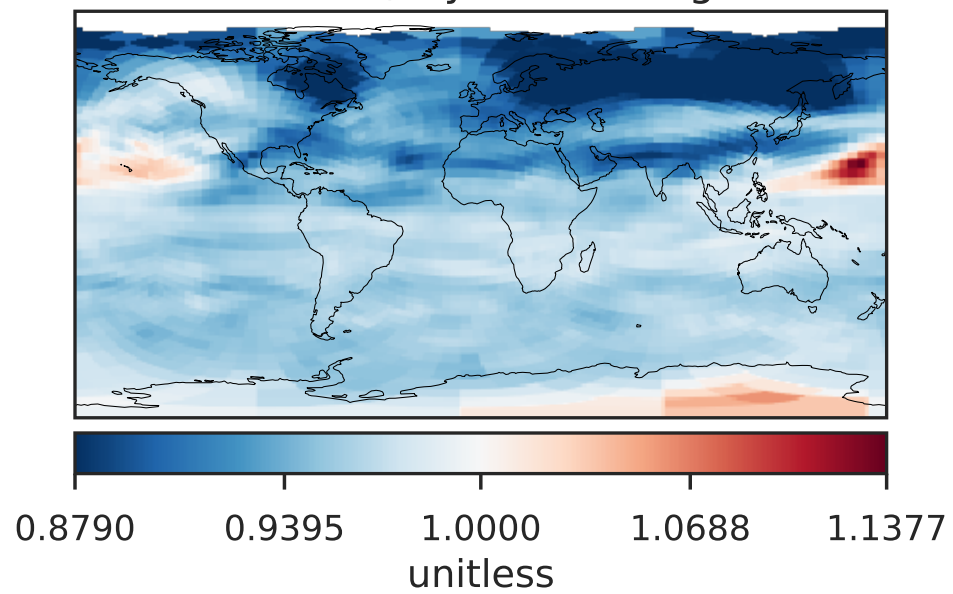
Difference (1x1.25)
Dev - Ref, Dynamic Range



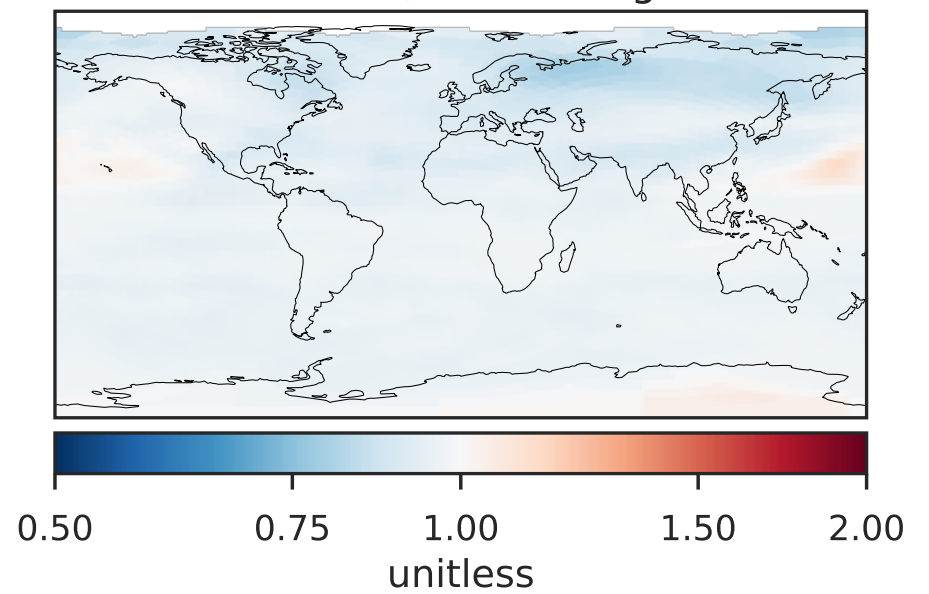
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

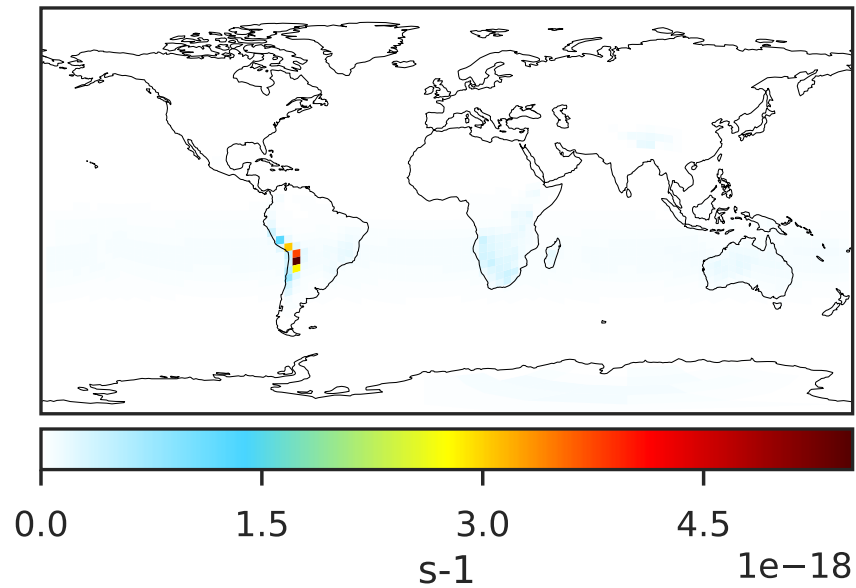


Ratio (1x1.25)
Dev/Ref, Fixed Range

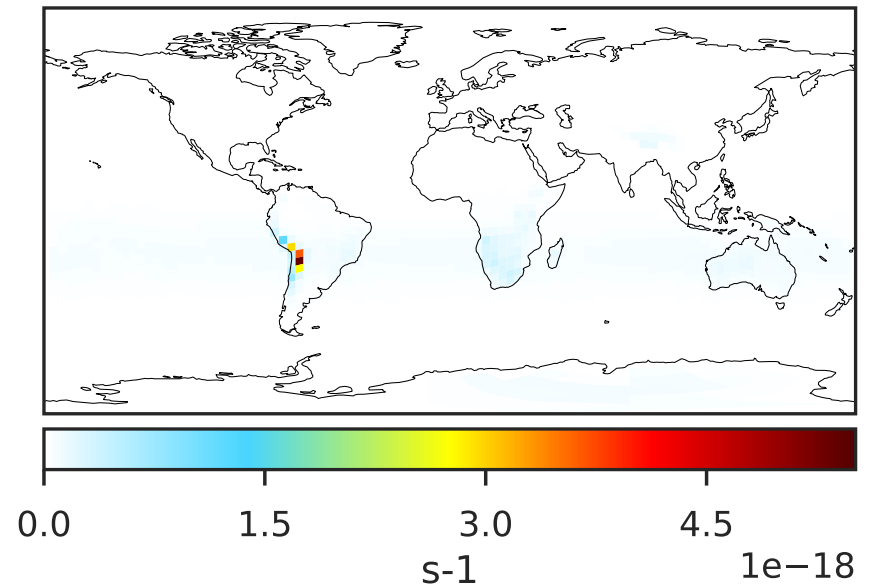


Jval_HCFC22 (Jan2019)

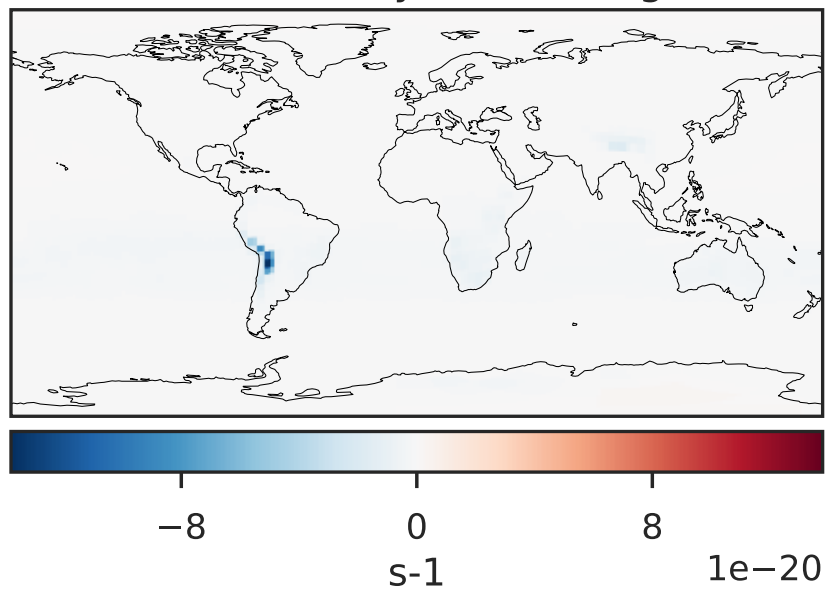
GCHP_14.0.0 (Ref)
c24



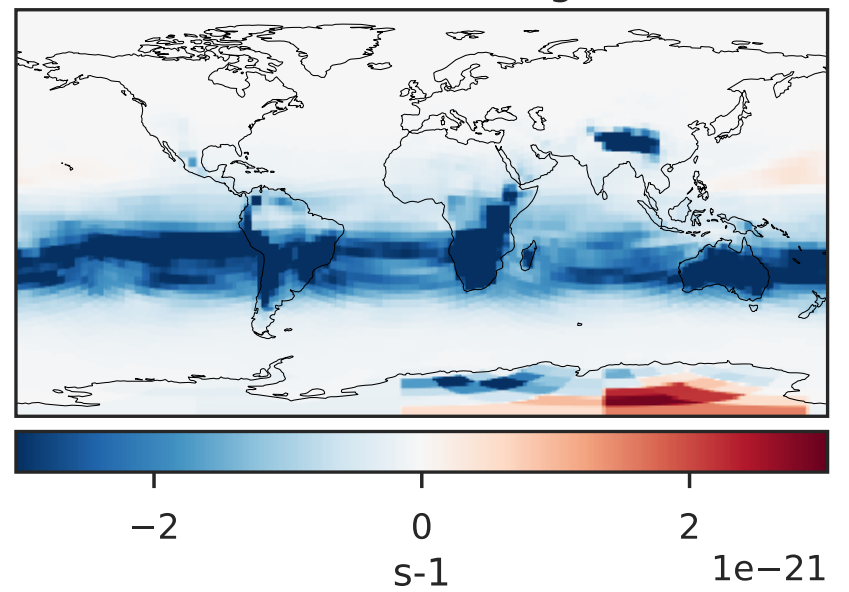
GCHP_14.2.0 (Dev)
c24



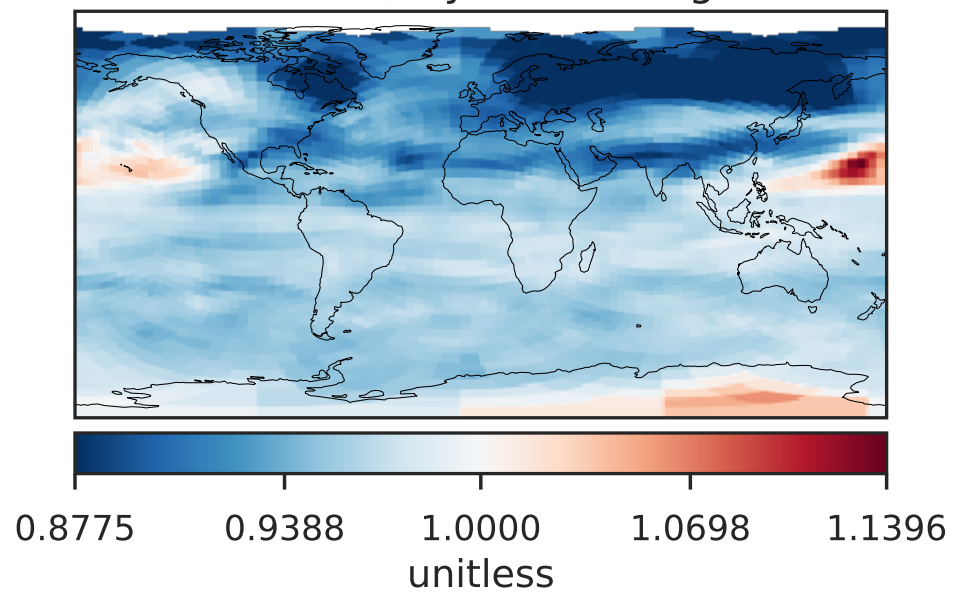
Difference (1x1.25)
Dev - Ref, Dynamic Range



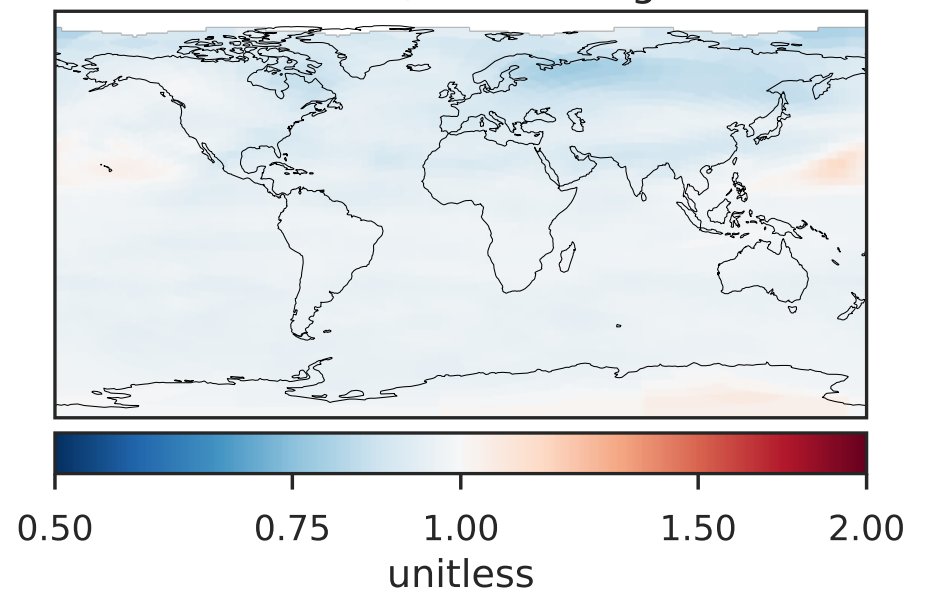
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

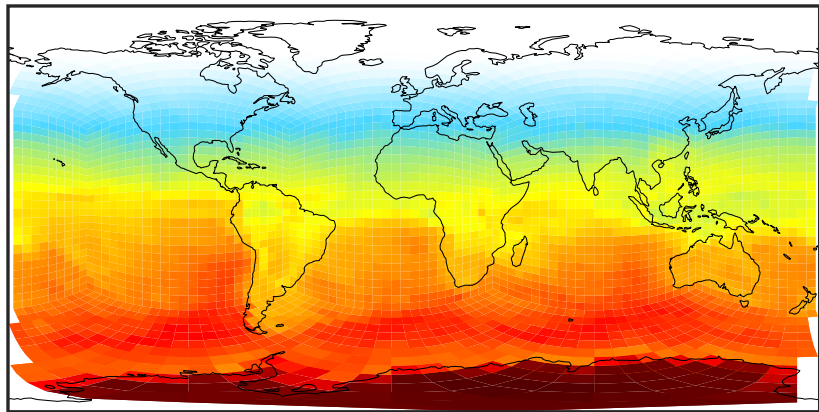


Ratio (1x1.25)
Dev/Ref, Fixed Range



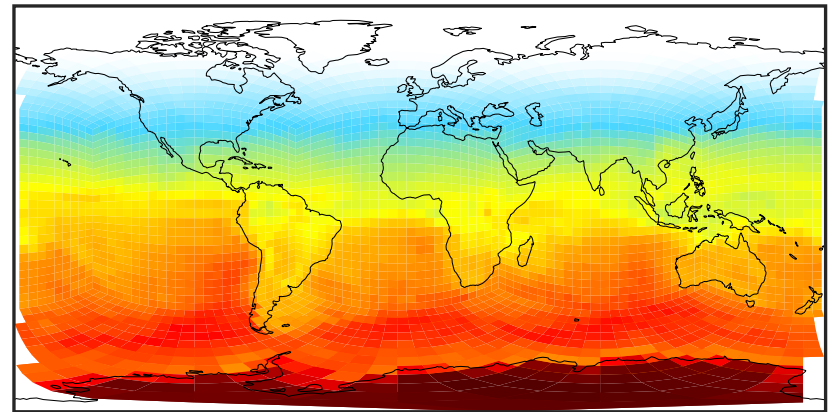
Jval_HMHP (Jan2019)

GCHP_14.0.0 (Ref)
c24



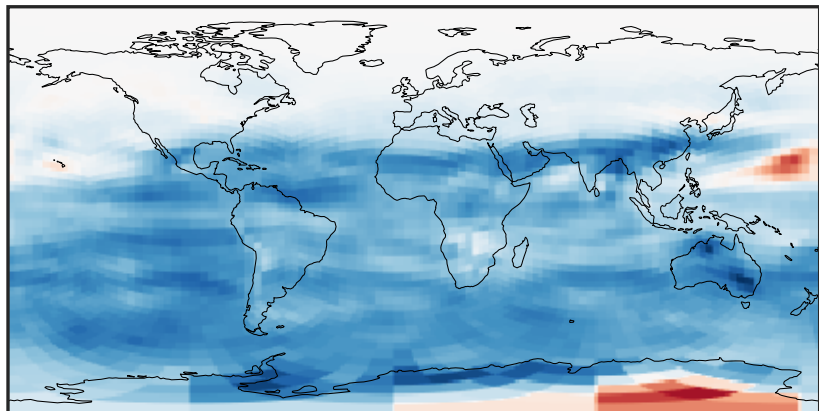
0.0 1.5 3.0 4.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



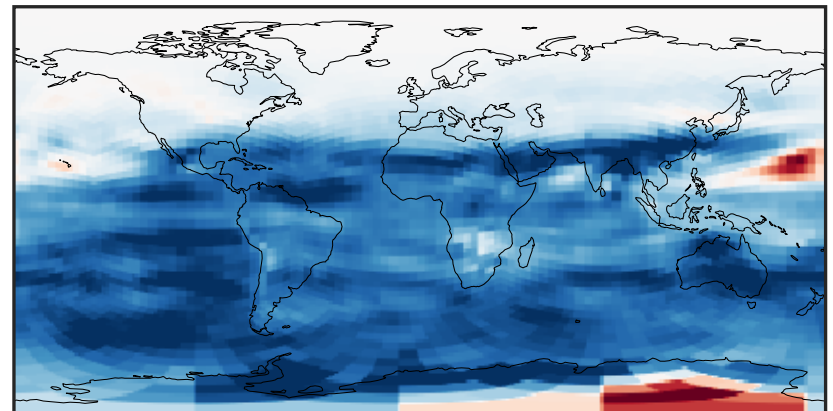
0.0 1.5 3.0 4.5
s-1 $1e-6$

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



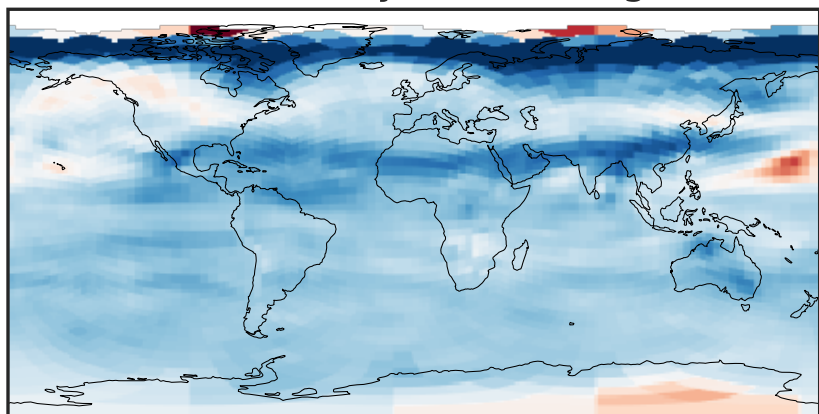
-1.5 0.0 1.5
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98864 0.99432 1.00000 1.00574 1.01149
unitless

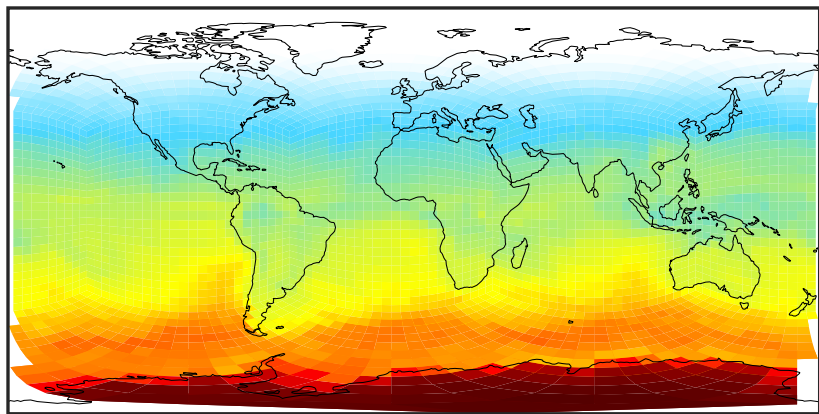
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

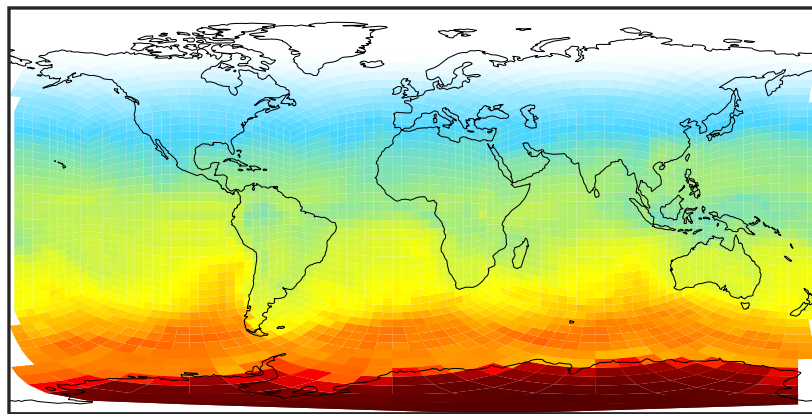
Jval_HNO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



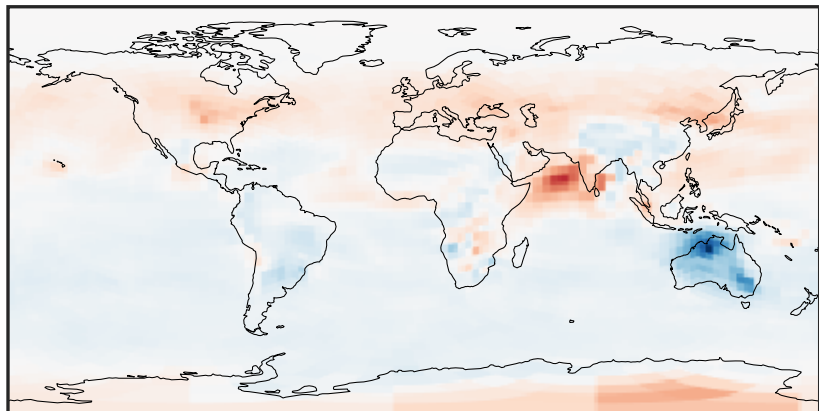
0.0000 0.0006 0.0012 0.0018
s-1

GCHP_14.2.0 (Dev)
c24



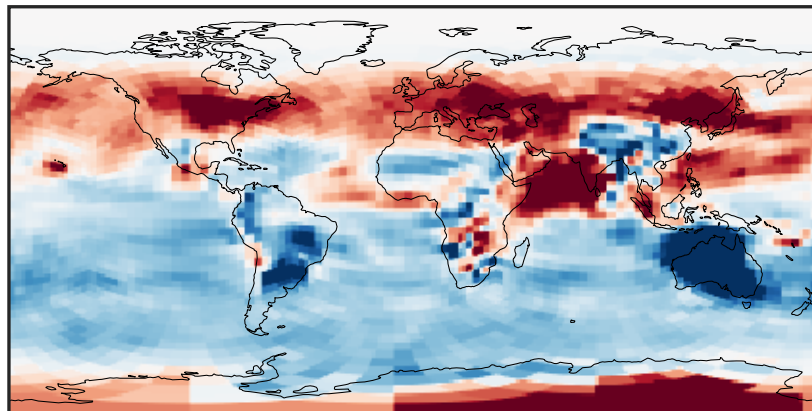
0.0000 0.0006 0.0012 0.0018
s-1

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



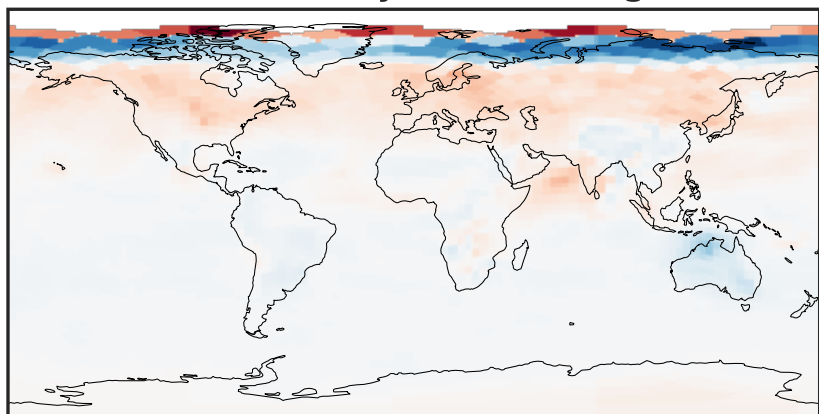
-2.5 0.0 2.5
s-1 1e-6

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



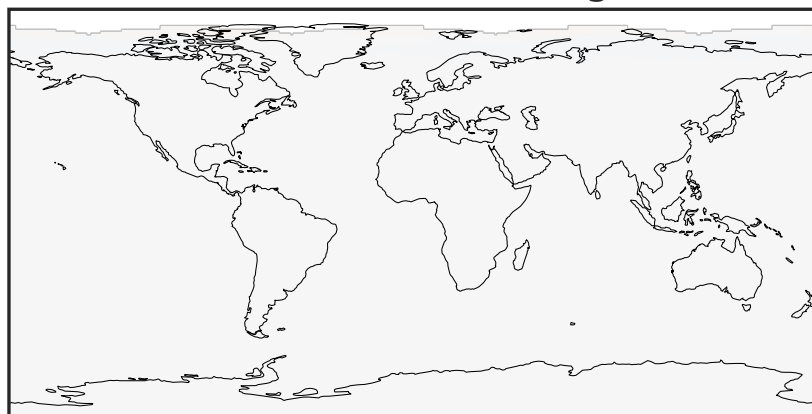
-5 0 5
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98583 0.99291 1.00000 1.00719 1.01438
unitless

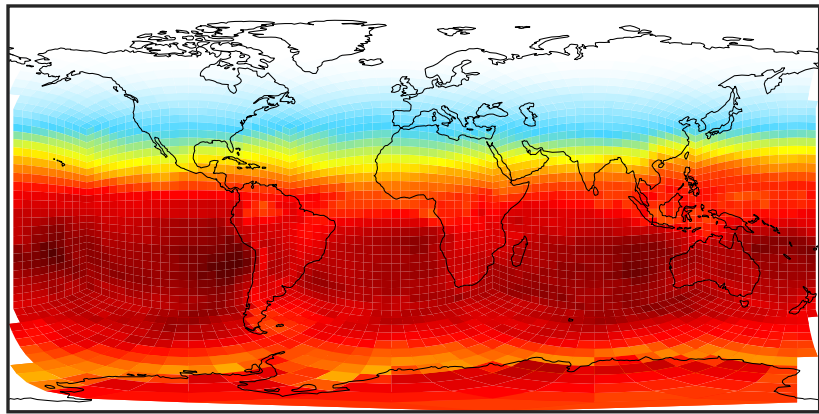
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

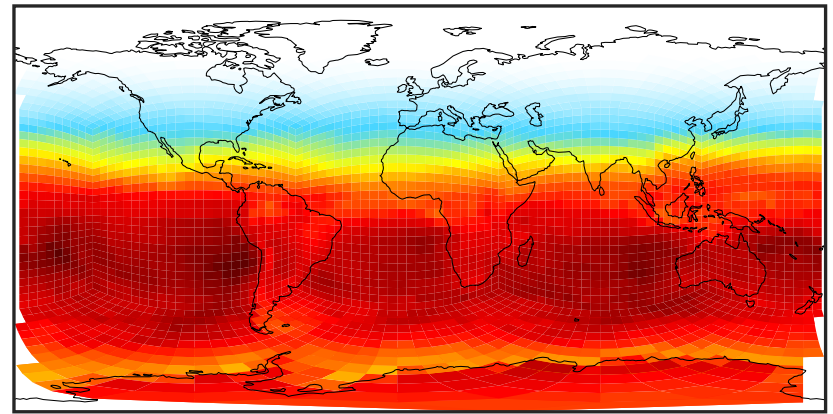
Jval_HNO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



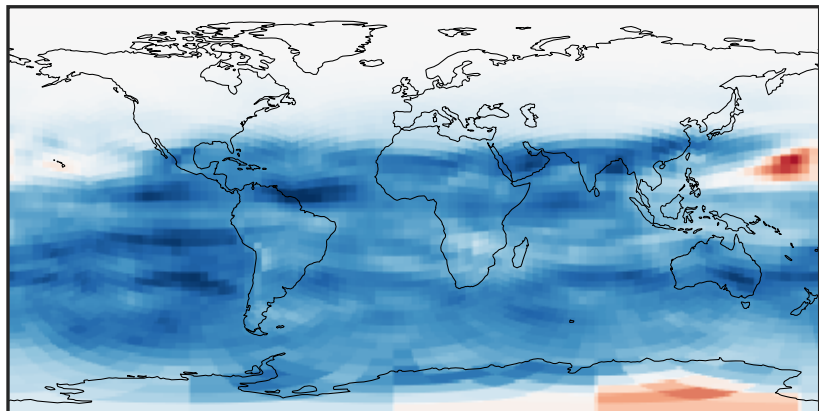
0.0 1.5 3.0 4.5
s-1 $1e-7$

GCHP_14.2.0 (Dev)
c24



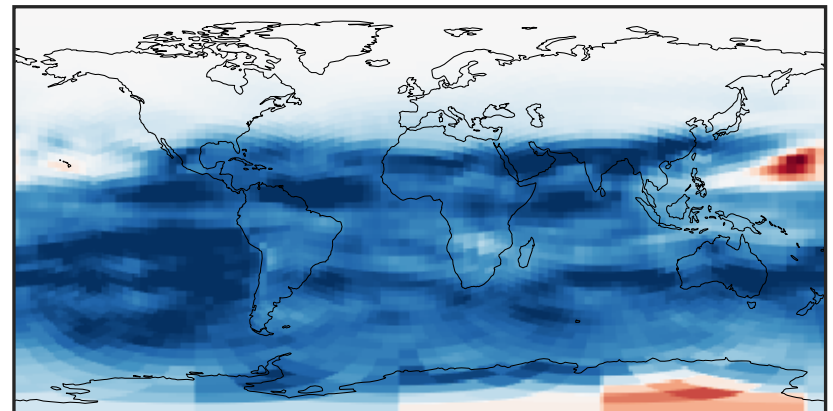
0.0 1.5 3.0 4.5
s-1 $1e-7$

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



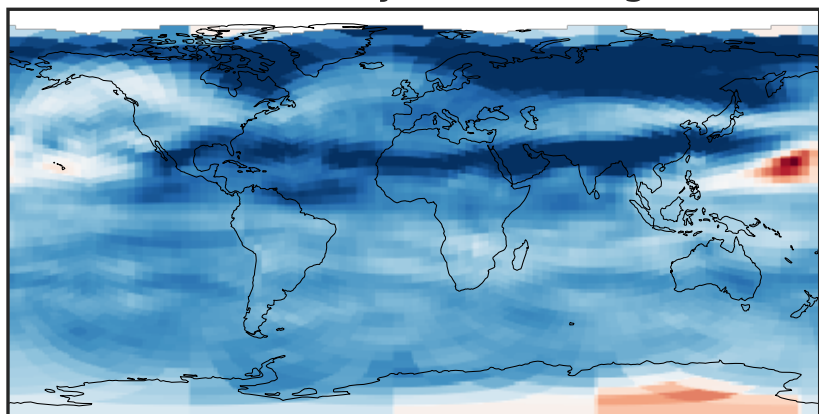
-4 0 4
s-1 $1e-9$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.97694 0.98847 1.00000 1.01180 1.02361
unitless

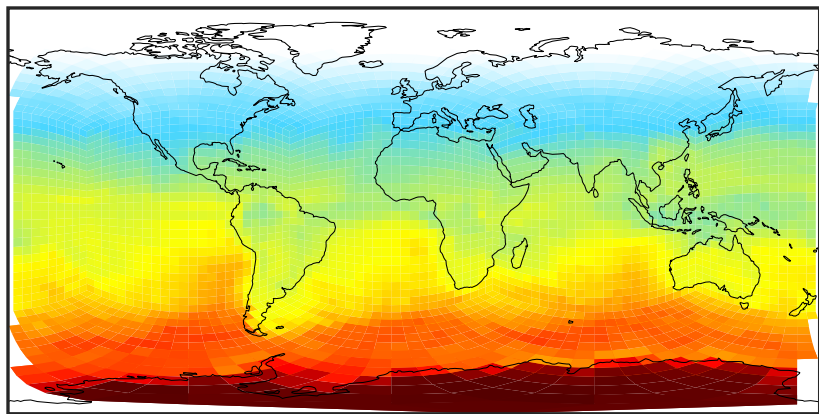
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

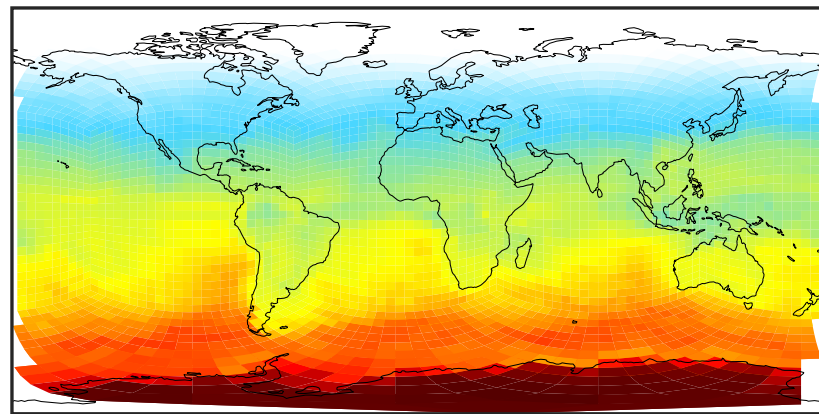
Jval_HNO4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



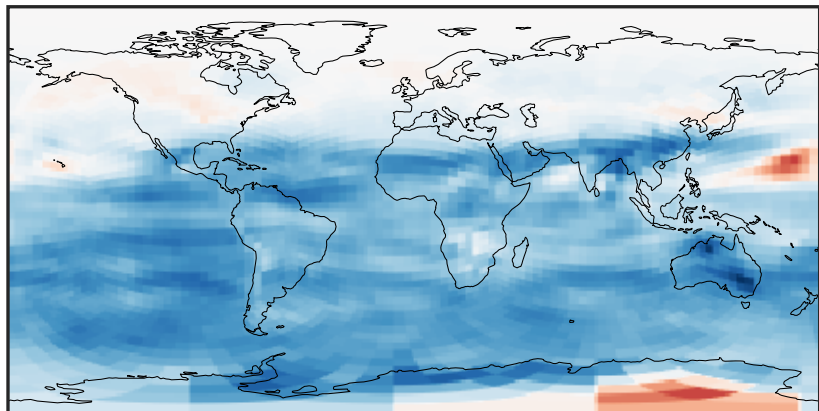
0.0 0.6 1.2 1.8 10^{-5} s-1

GCHP_14.2.0 (Dev)
c24



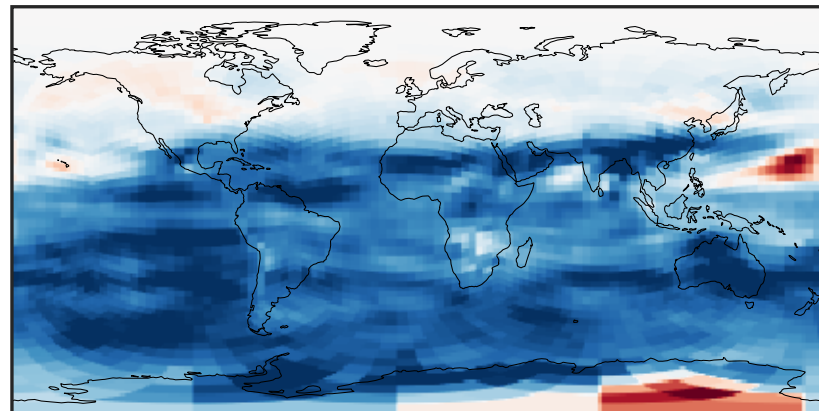
0.0 0.6 1.2 1.8 10^{-5} s-1

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



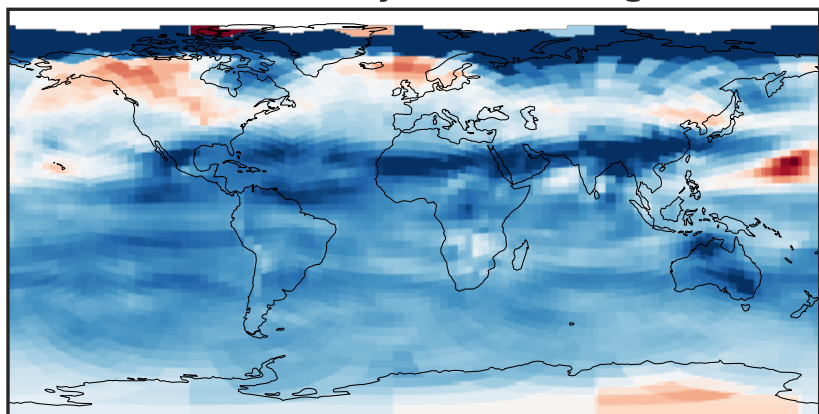
-4 0 4 10^{-8} s-1

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



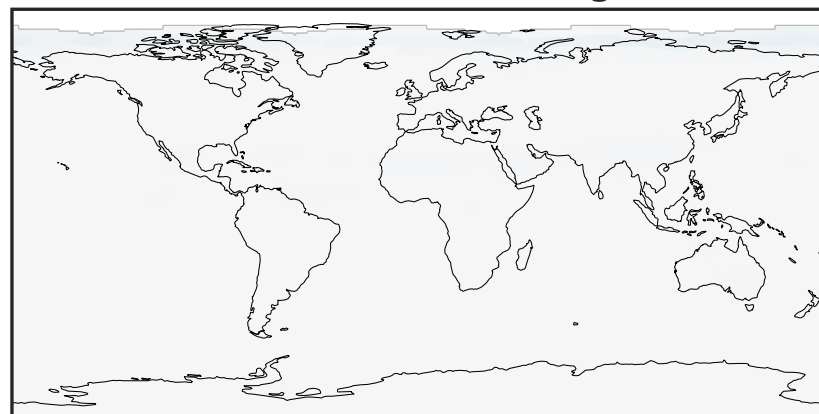
-3 0 3 10^{-8} s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99388 0.99694 1.00000 1.00308 1.00615 unitless

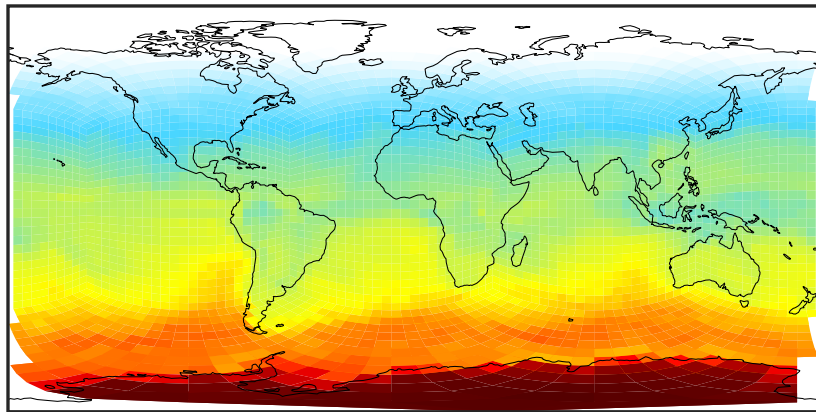
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00 unitless

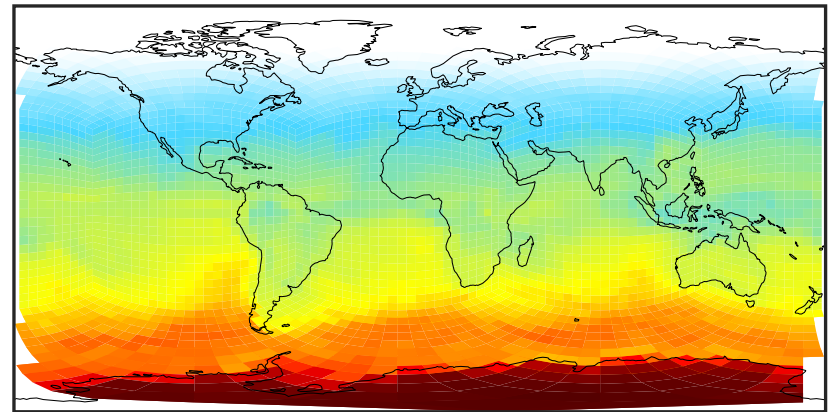
Jval_HOBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



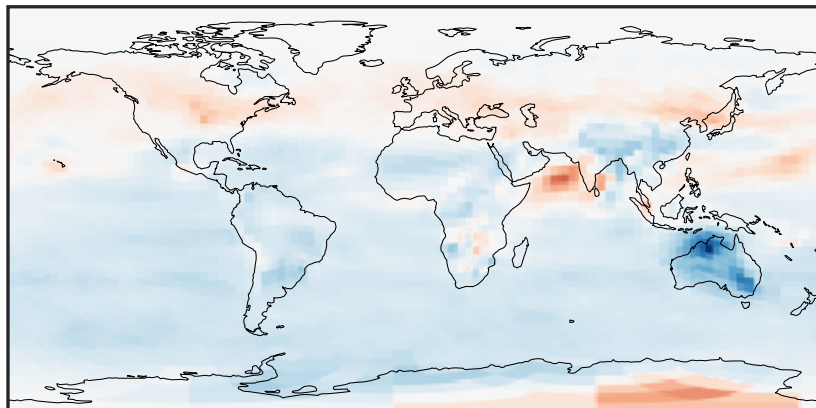
0.0000 0.0008 0.0016 0.0024
s-1

GCHP_14.2.0 (Dev)
c24



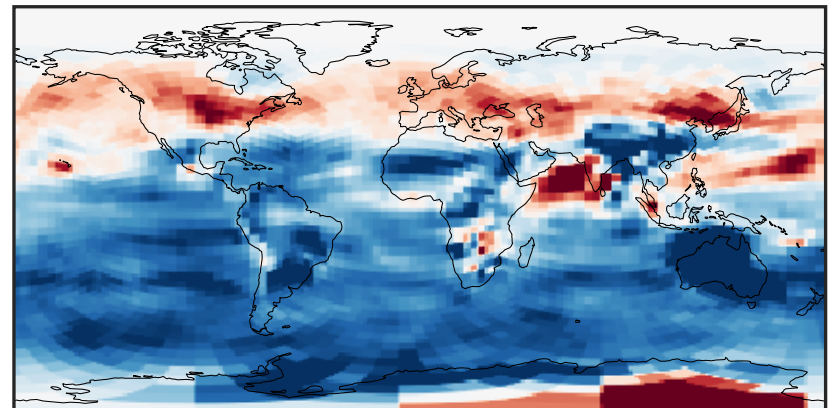
0.0000 0.0008 0.0016 0.0024
s-1

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



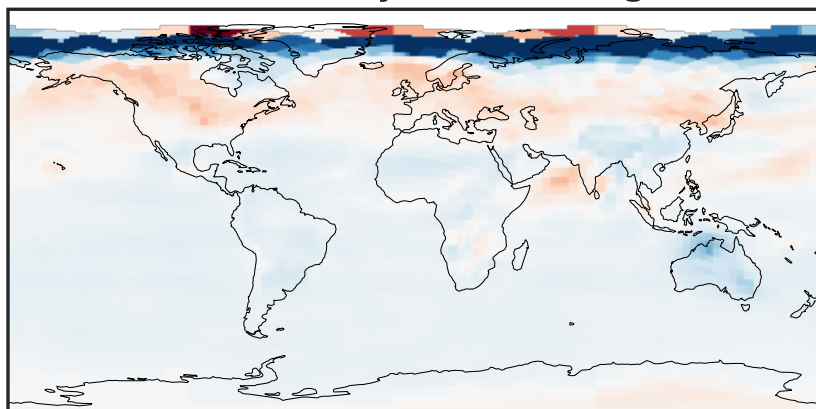
-4 0 4
s-1 1e-6

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



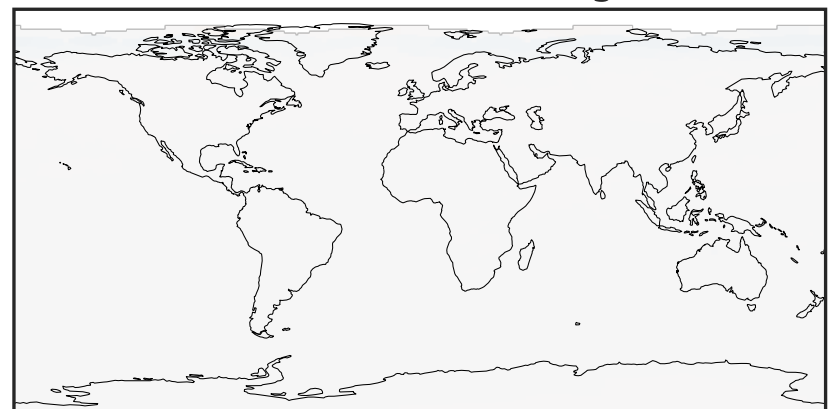
-1 0 1
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98859 0.99430 1.00000 1.00577 1.01154
unitless

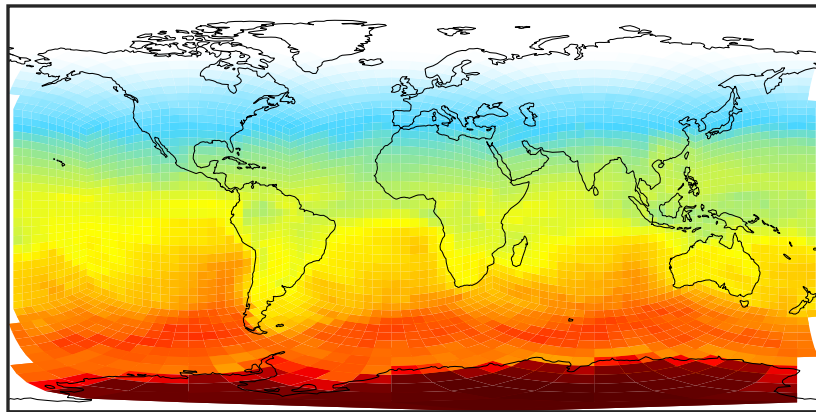
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

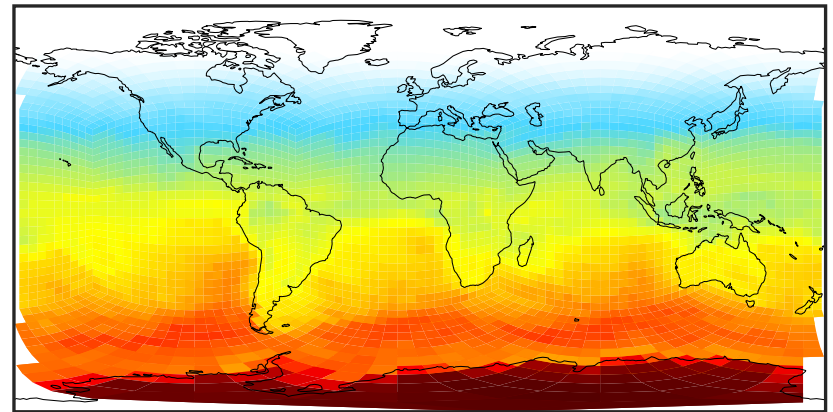
Jval_HOCl (Jan2019)

GCHP_14.0.0 (Ref)
c24



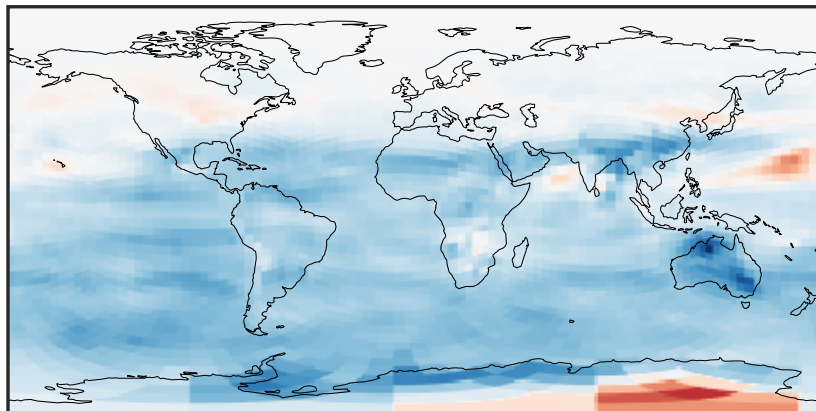
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



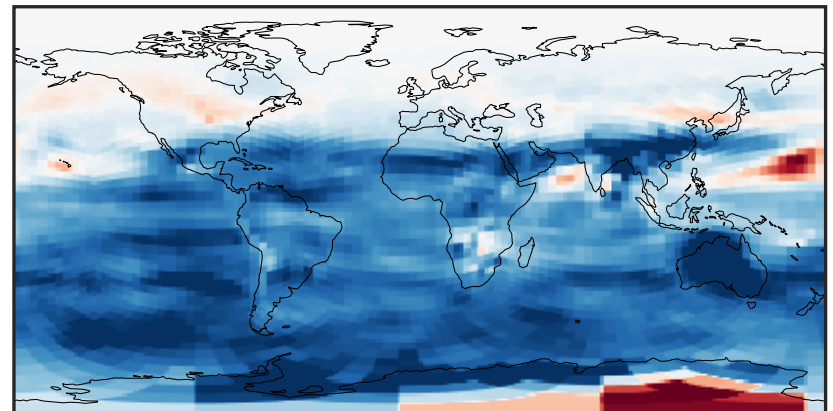
0.0000 0.0001 0.0002 0.0003
s-1

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



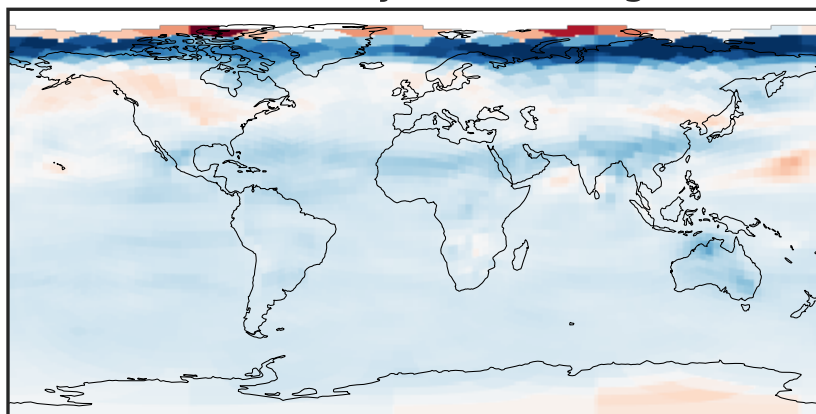
-6 0 6
s-1 1e-7

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



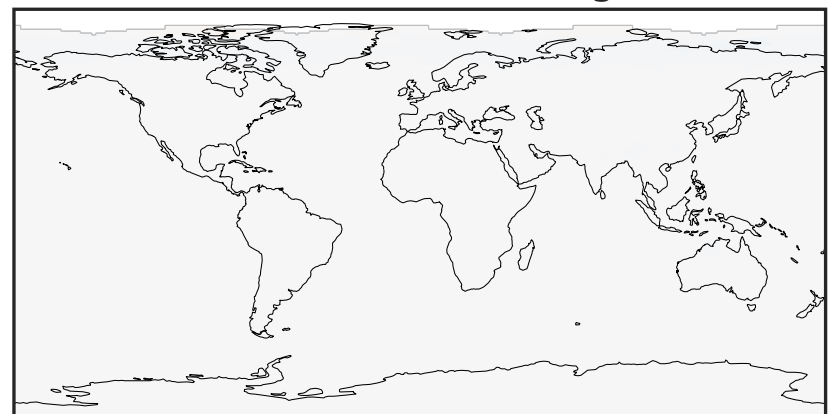
-3 0 3
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98725 0.99362 1.00000 1.00646 1.01292
unitless

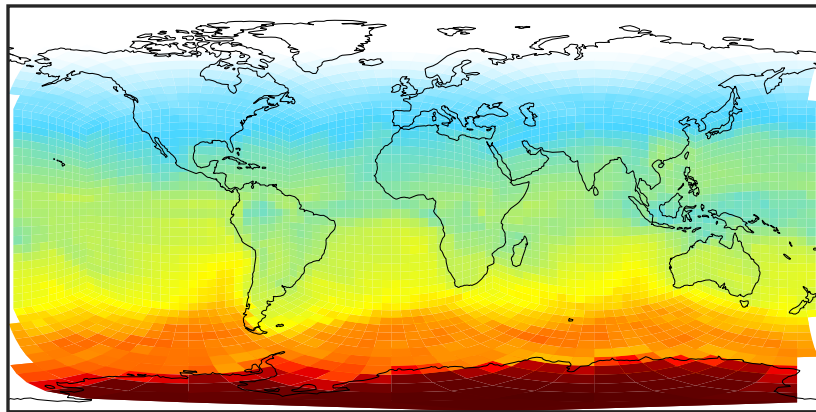
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

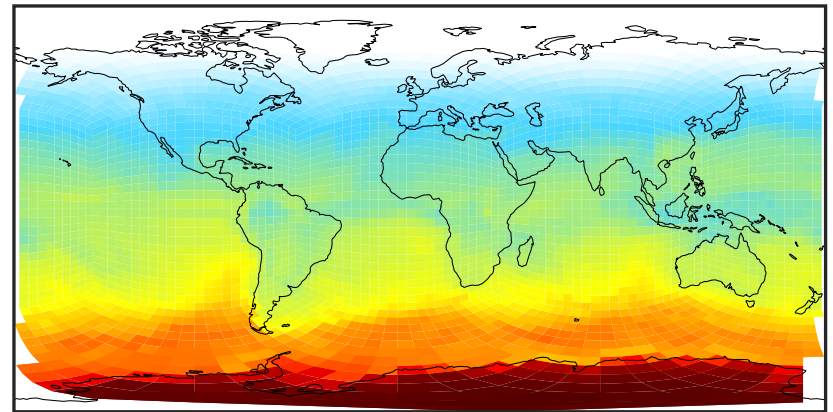
Jval_HOI (Jan2019)

GCHP_14.0.0 (Ref)
c24



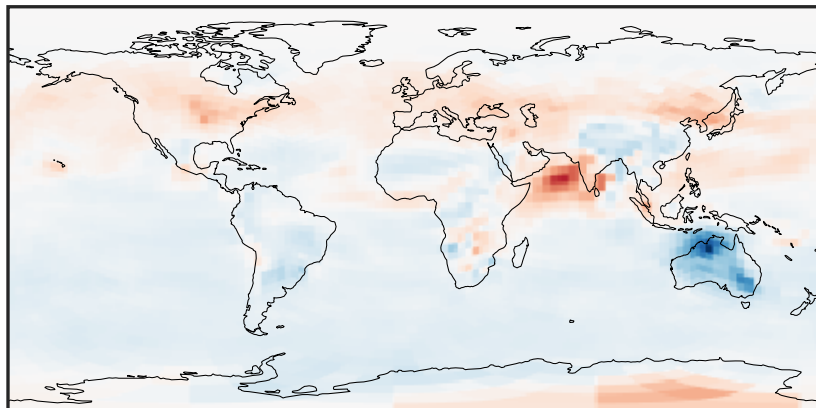
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



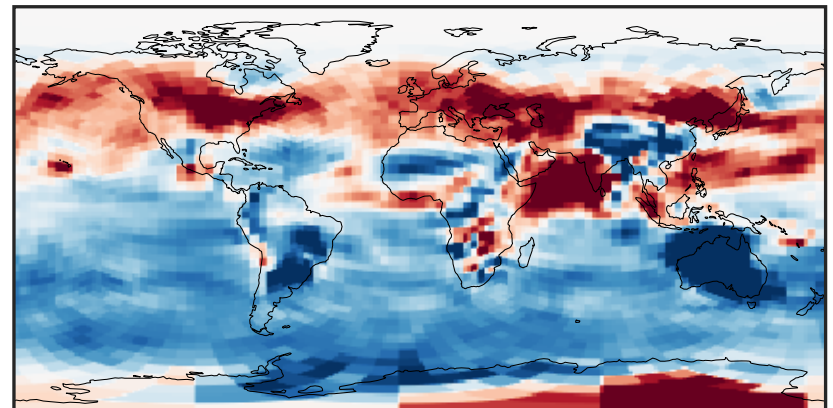
0.000 0.004 0.008 0.012
s-1

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



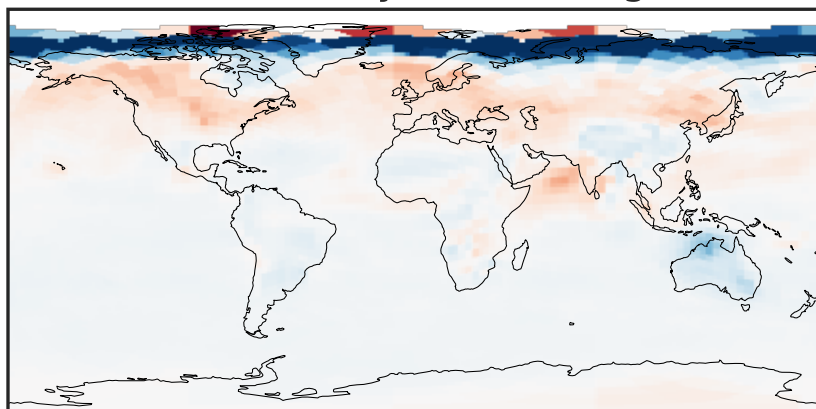
-1.5 0.0 1.5
s-1 10^{-5}

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



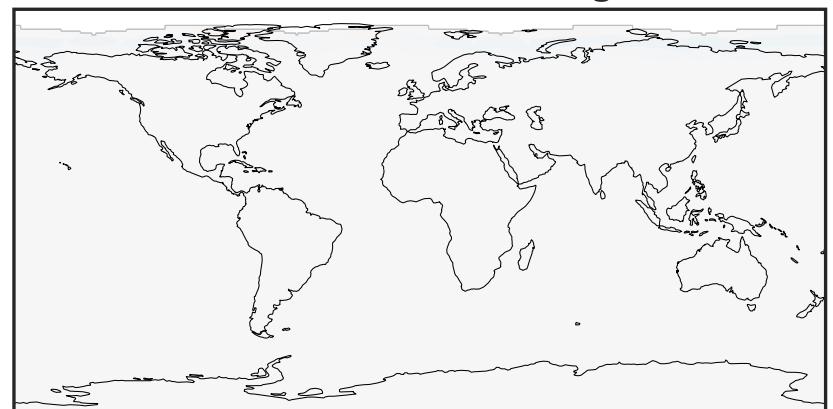
-2.5 0.0 2.5
s-1 10^{-6}

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98882 0.99441 1.00000 1.00565 1.01130
unitless

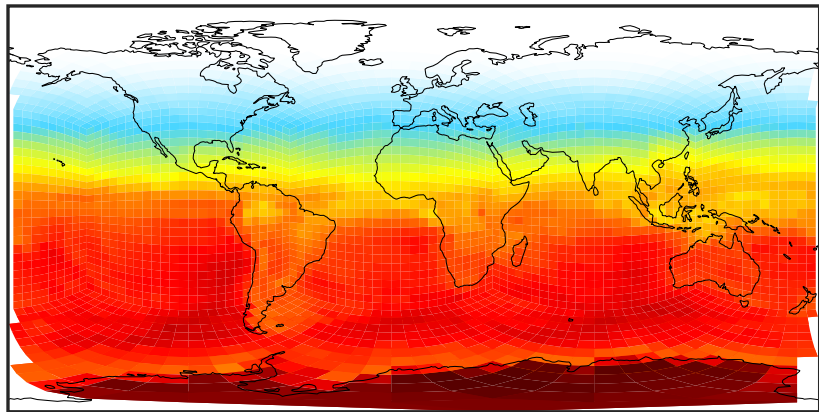
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

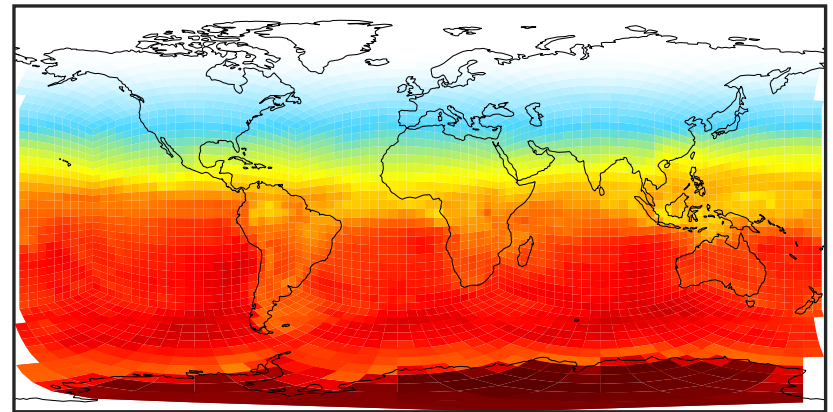
Jval_HONIT (Jan2019)

GCHP_14.0.0 (Ref)
c24



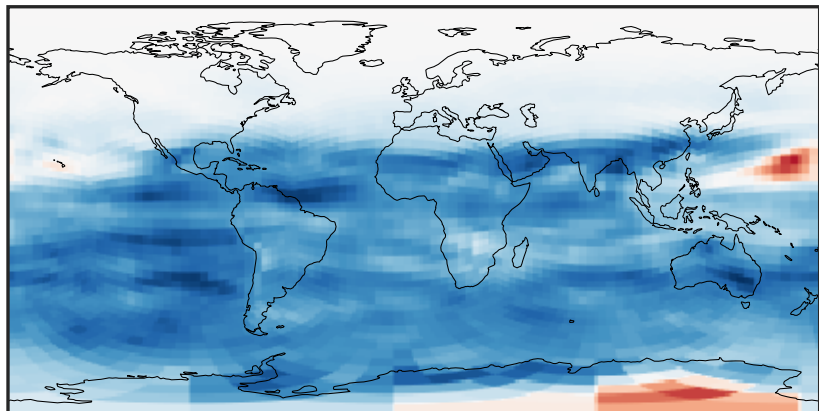
0.0 0.6 1.2 1.8 10^{-6} s-1

GCHP_14.2.0 (Dev)
c24



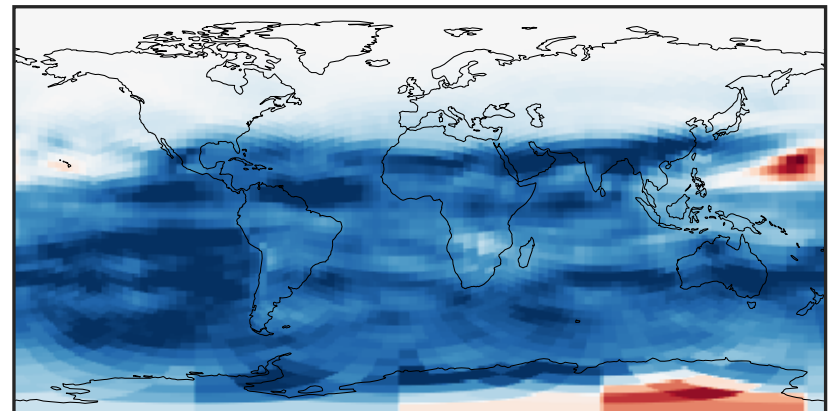
0.0 0.6 1.2 1.8 10^{-6} s-1

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



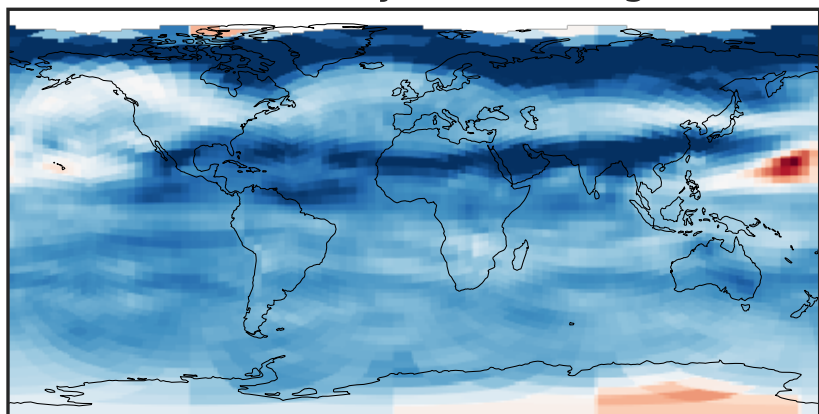
-1.5 0.0 1.5 10^{-8} s-1

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

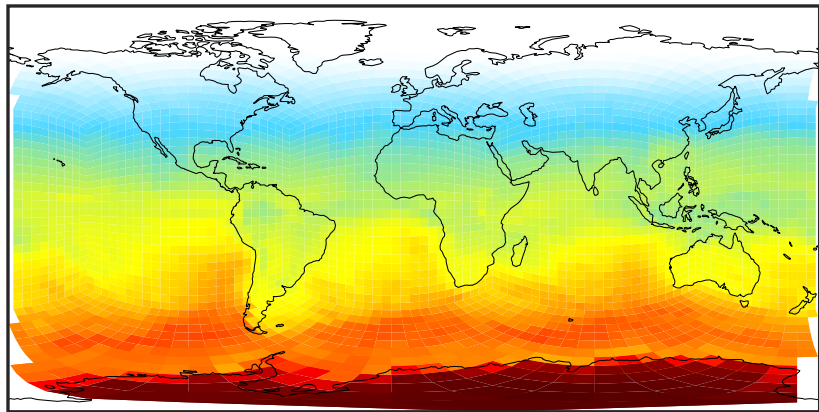
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

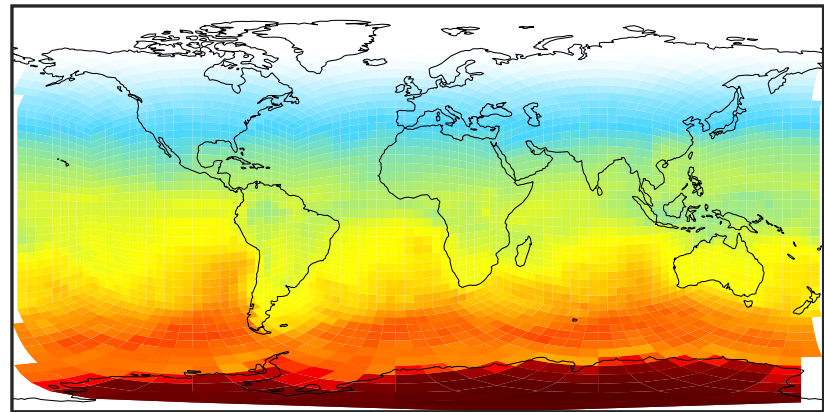
Jval_HPALD1 (Jan2019)

GCHP_14.0.0 (Ref)
c24



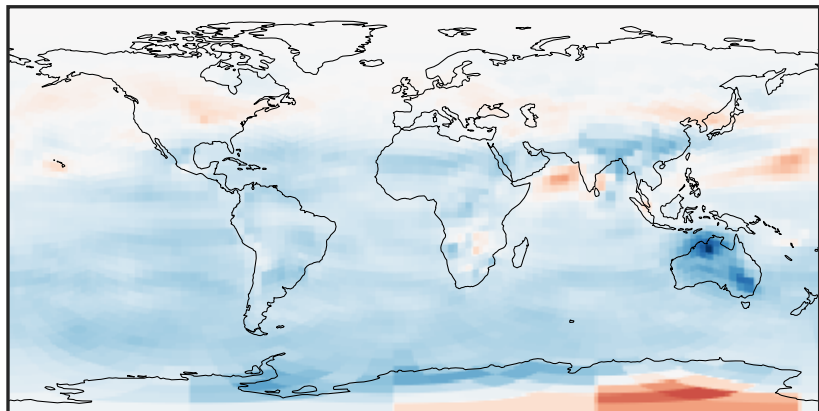
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



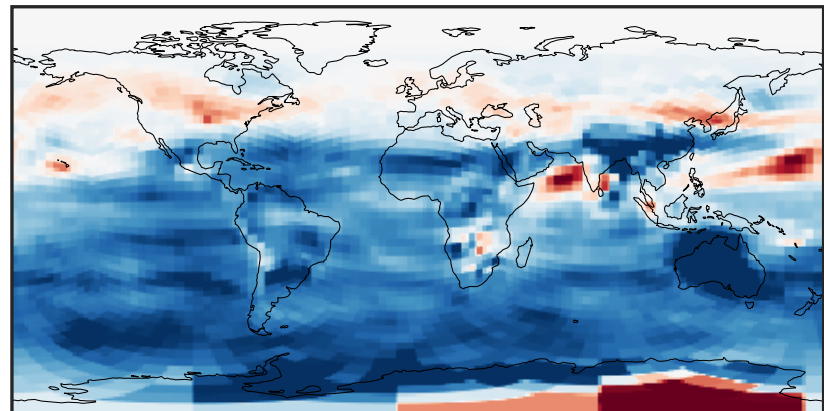
0.0000 0.0001 0.0002 0.0003
s-1

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



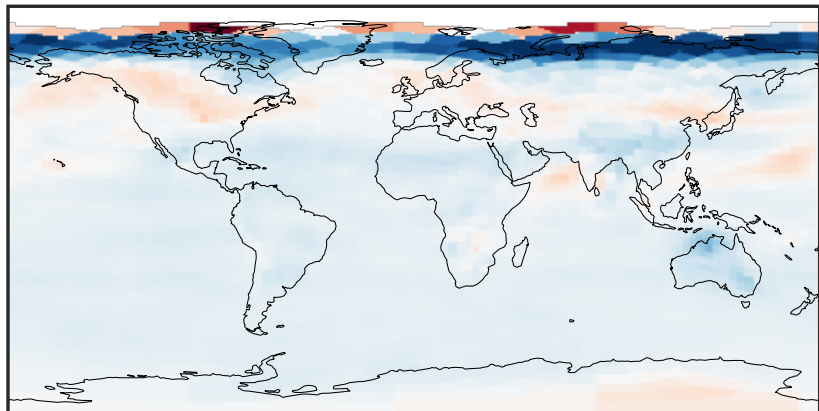
-6 0 6
s-1 1e-7

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



-2 0 2
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98711 0.99356 1.00000 1.00653 1.01306
unitless

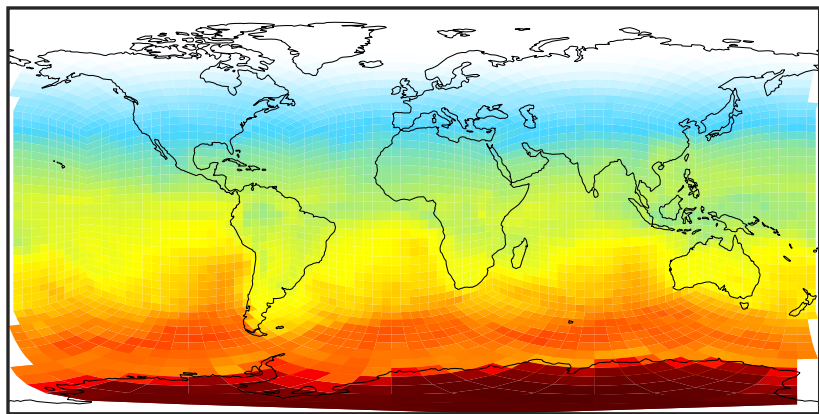
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

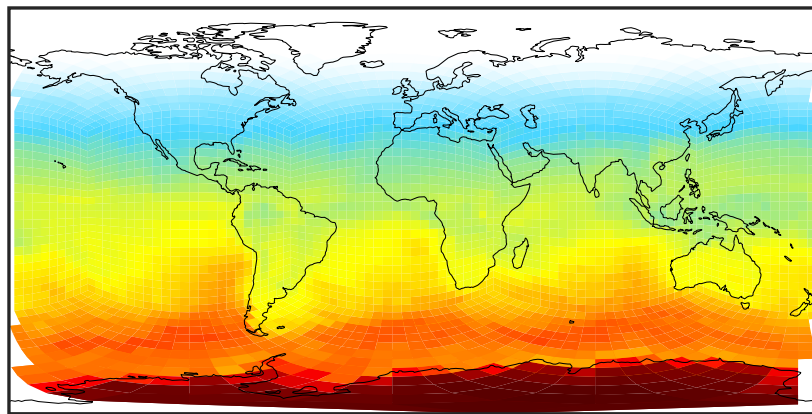
Jval_HPALD2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



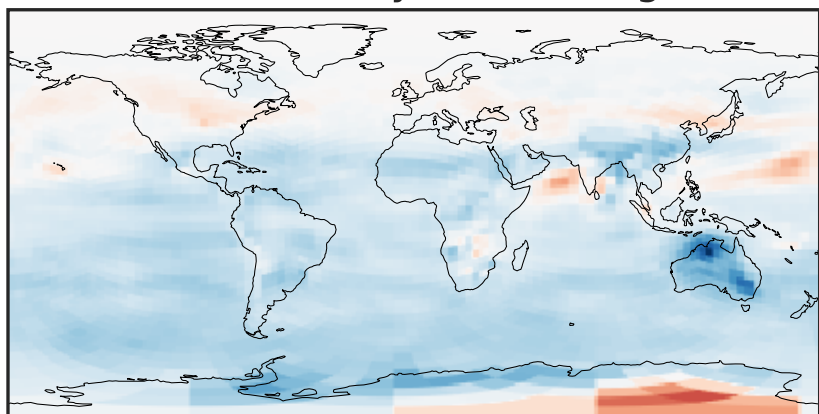
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



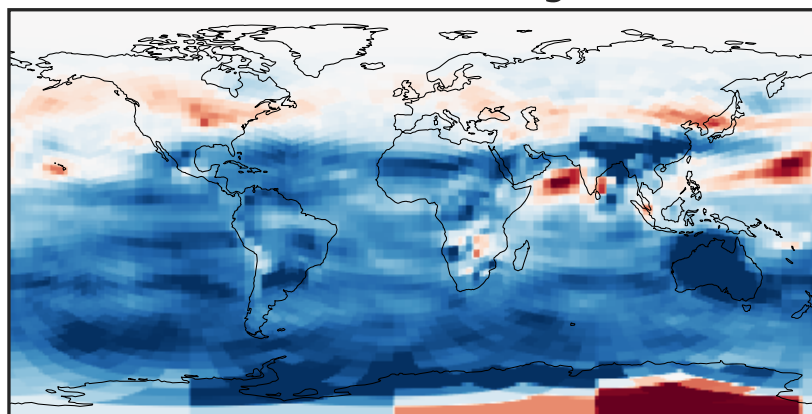
0.0000 0.0001 0.0002 0.0003
s-1

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



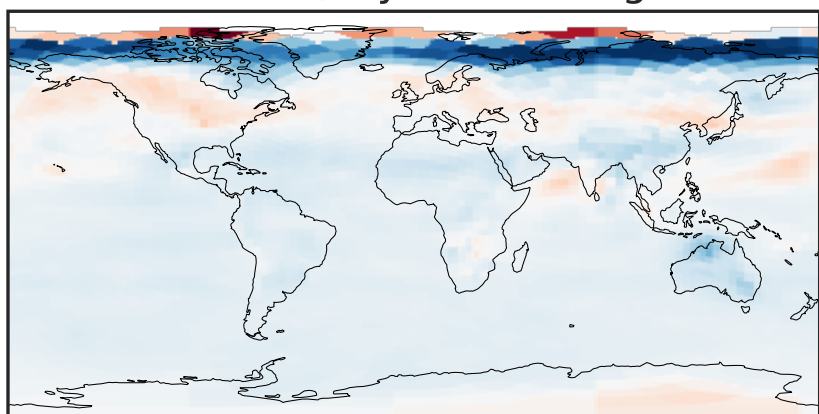
-6 0 6
s-1 $1e-7$

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



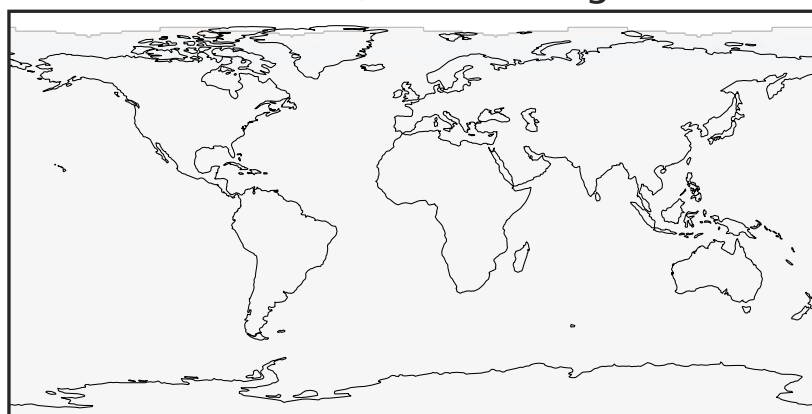
-2 0 2
s-1 $1e-7$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98711 0.99356 1.00000 1.00653 1.01306
unitless

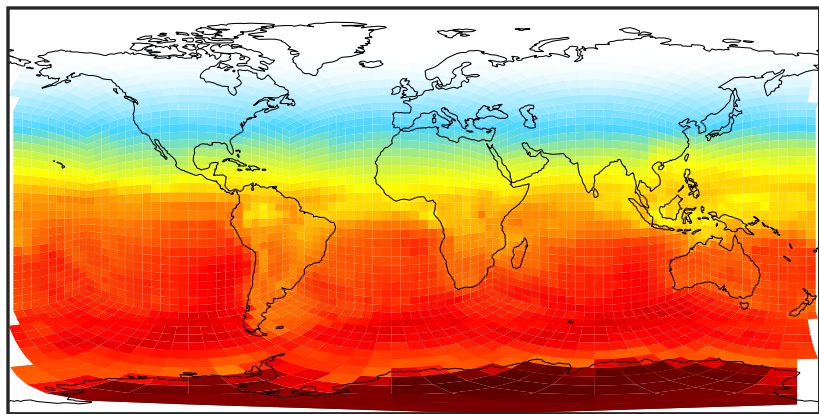
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

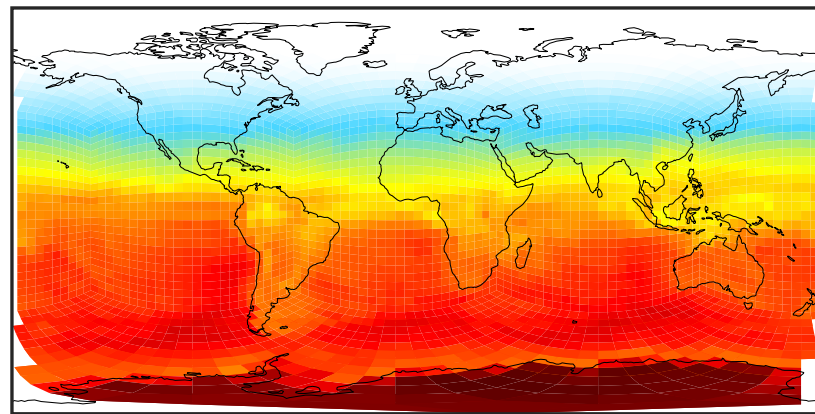
Jval_HPALD3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



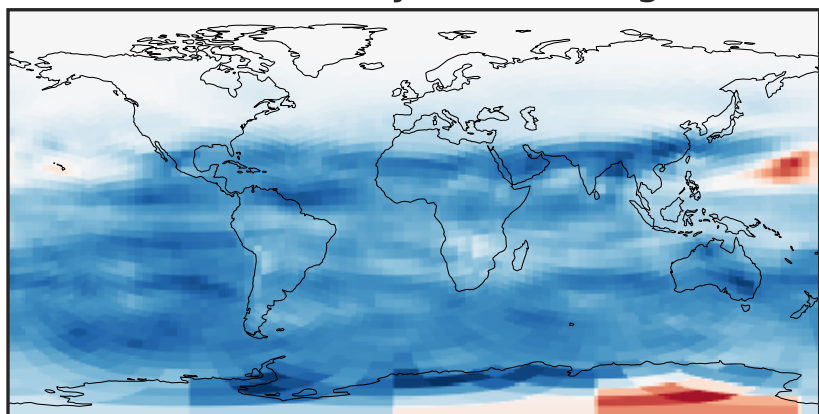
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



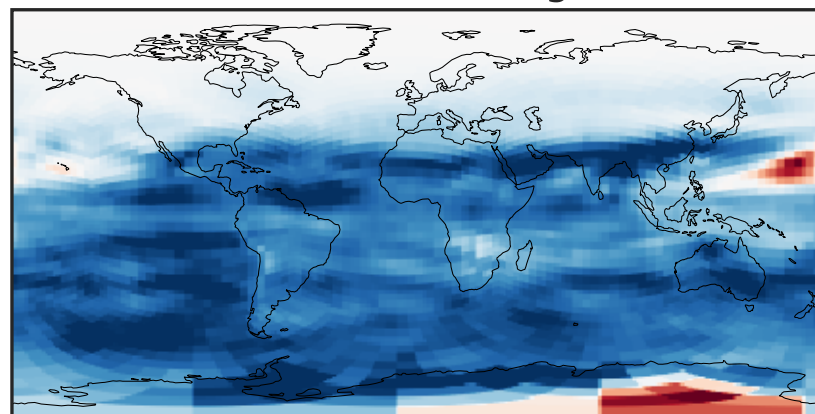
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



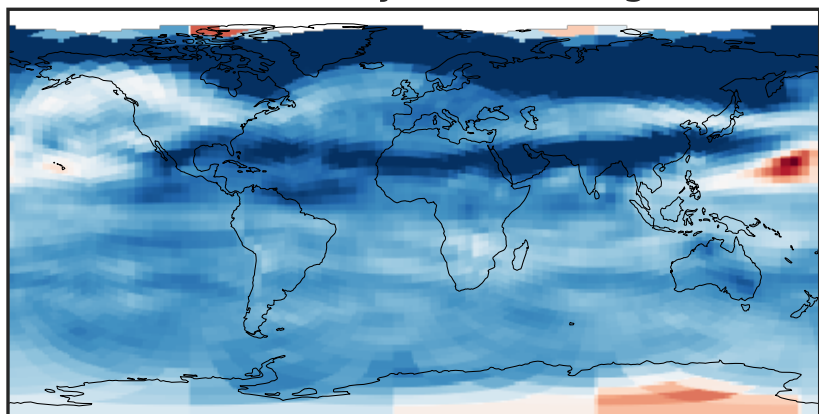
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

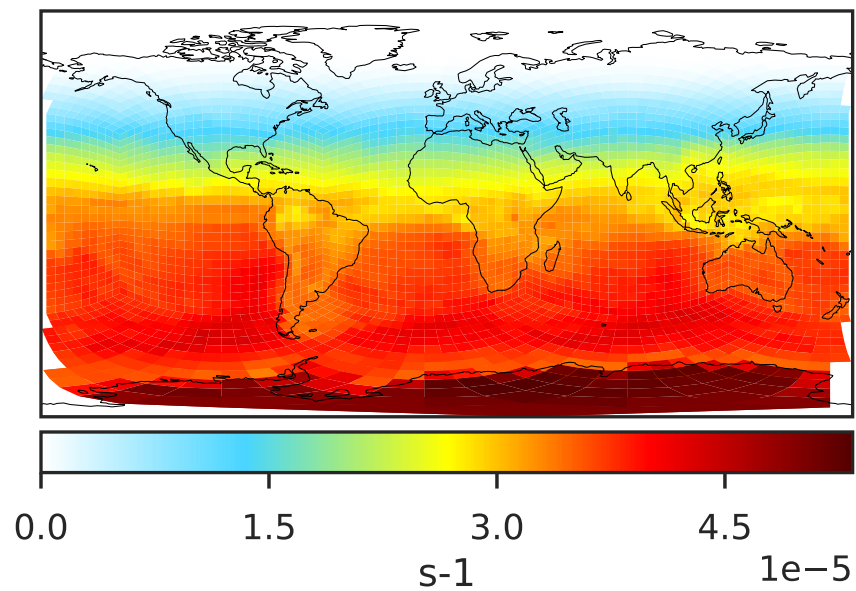
Ratio (1x1.25)
Dev/Ref, Fixed Range



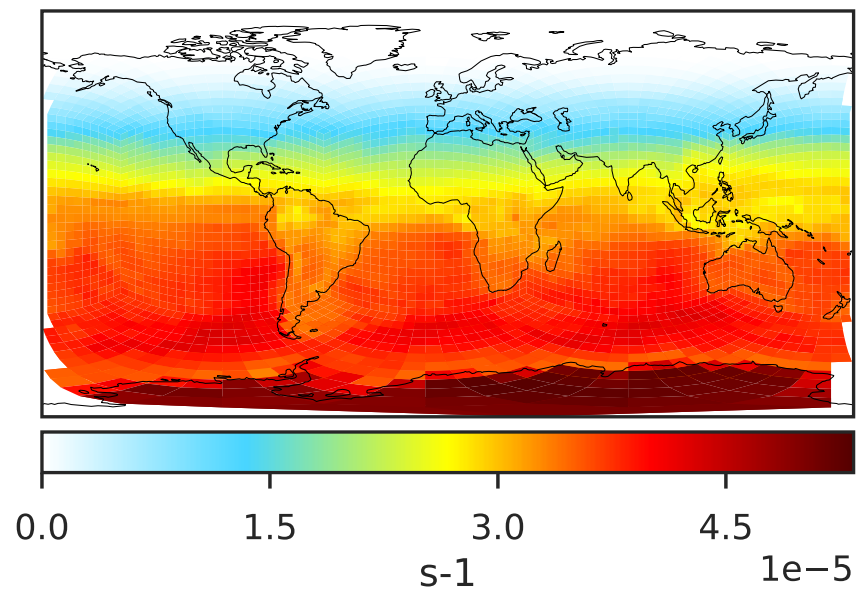
0.50 0.75 1.00 1.50 2.00
unitless

Jval_HPALD4 (Jan2019)

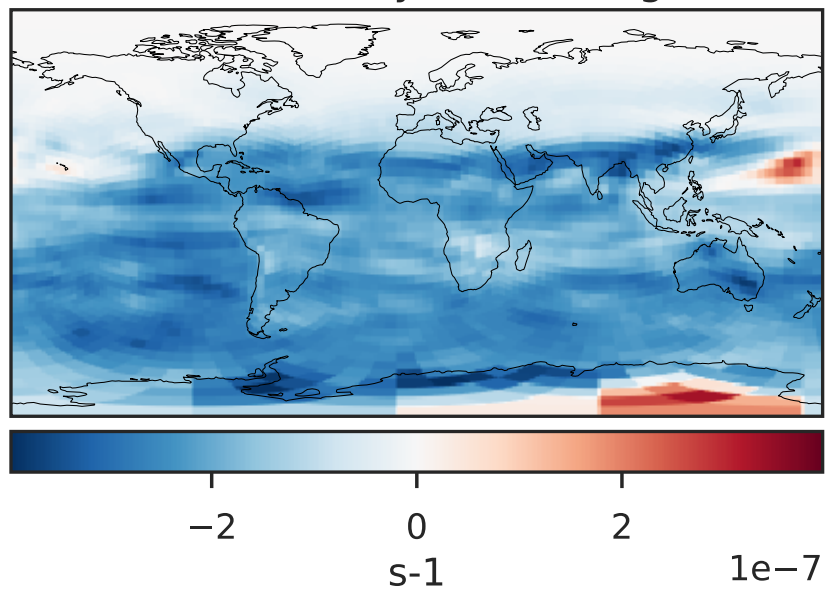
GCHP_14.0.0 (Ref)
c24



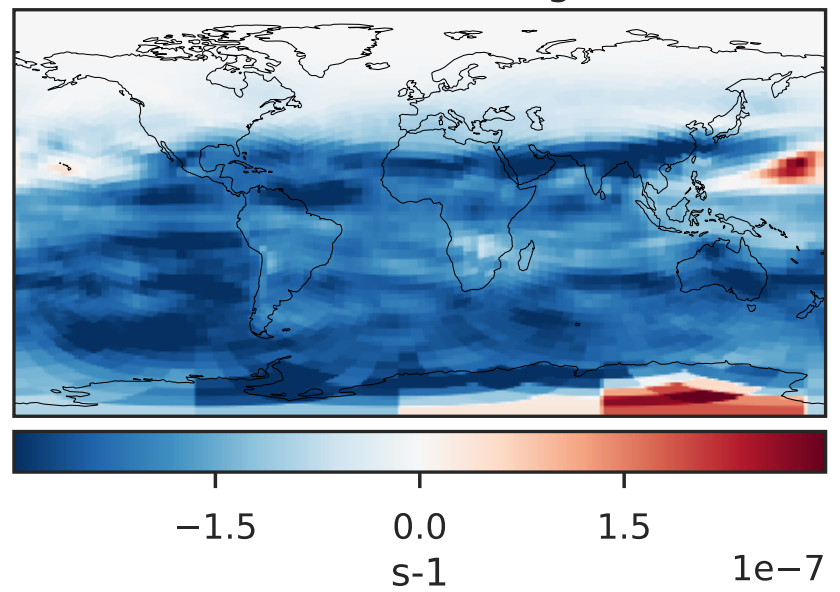
GCHP_14.2.0 (Dev)
c24



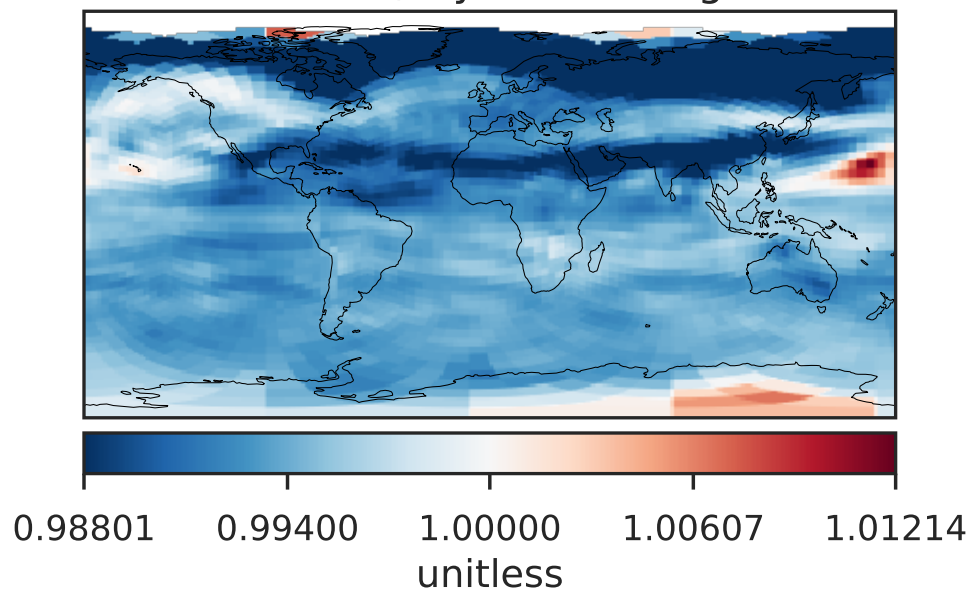
Difference (1x1.25)
Dev - Ref, Dynamic Range



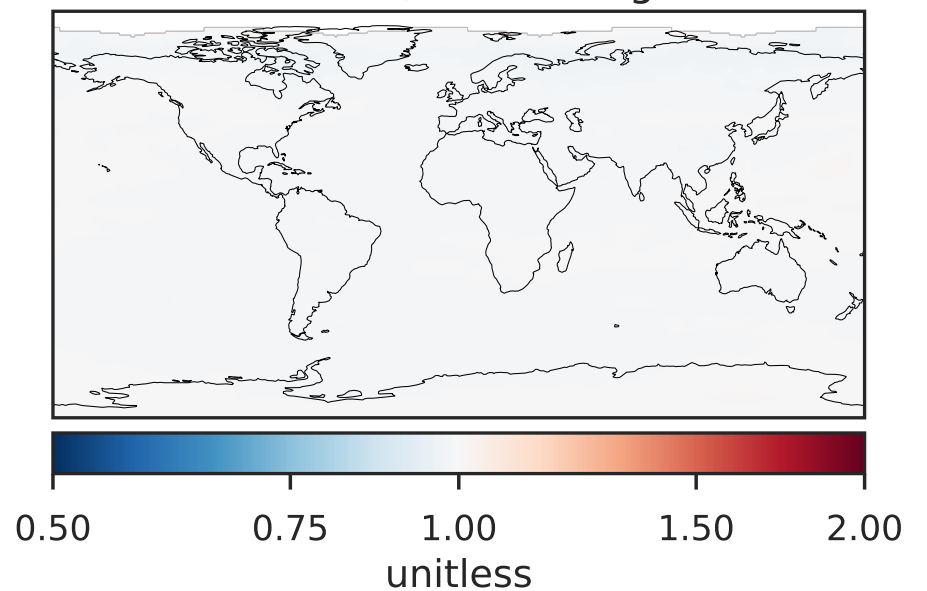
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

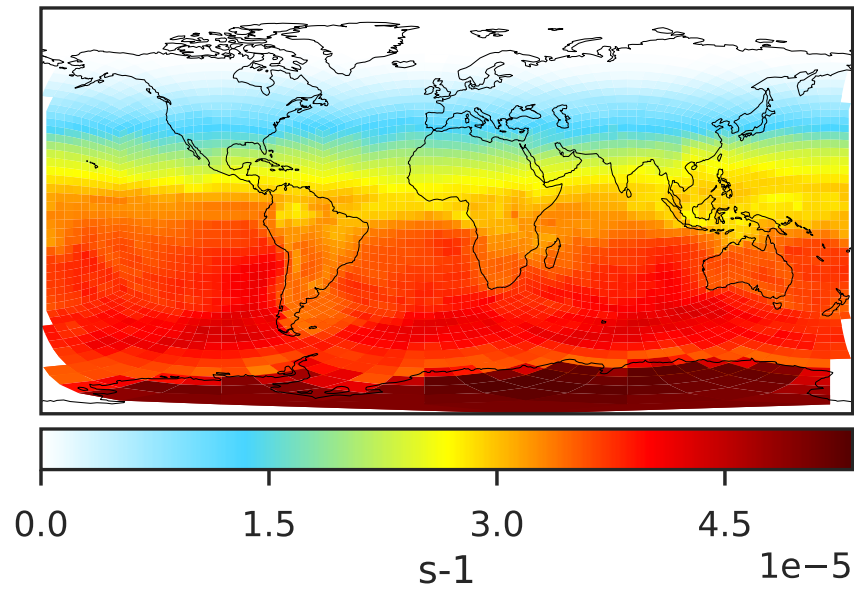


Ratio (1x1.25)
Dev/Ref, Fixed Range

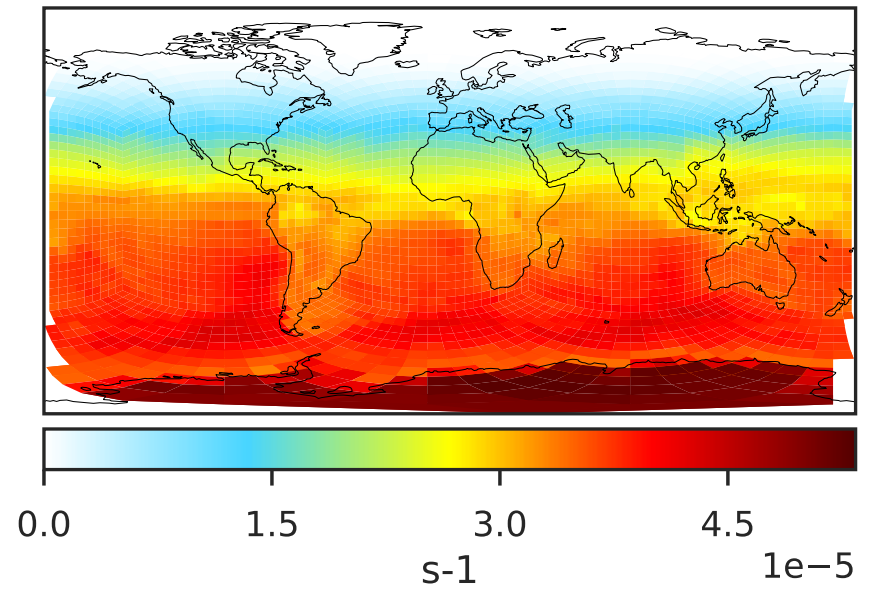


Jval_HPETHNL (Jan2019)

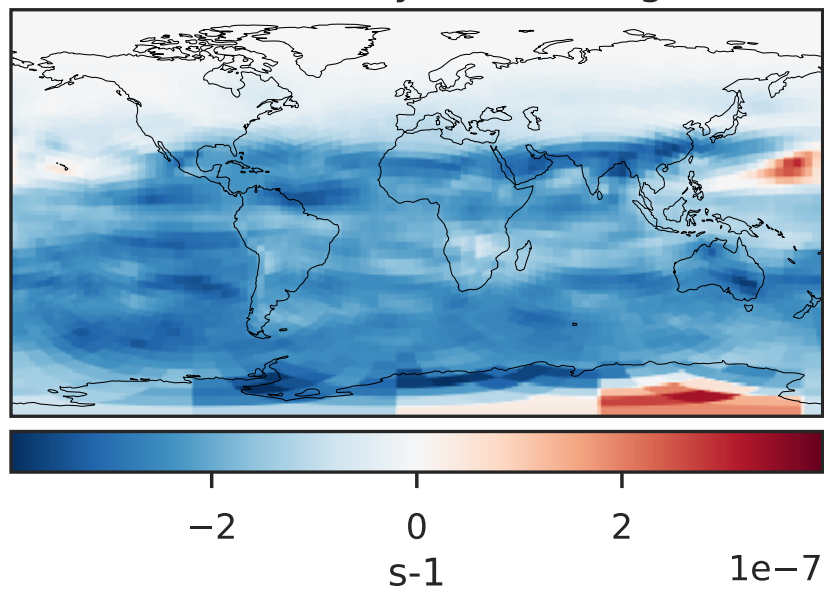
GCHP_14.0.0 (Ref)
c24



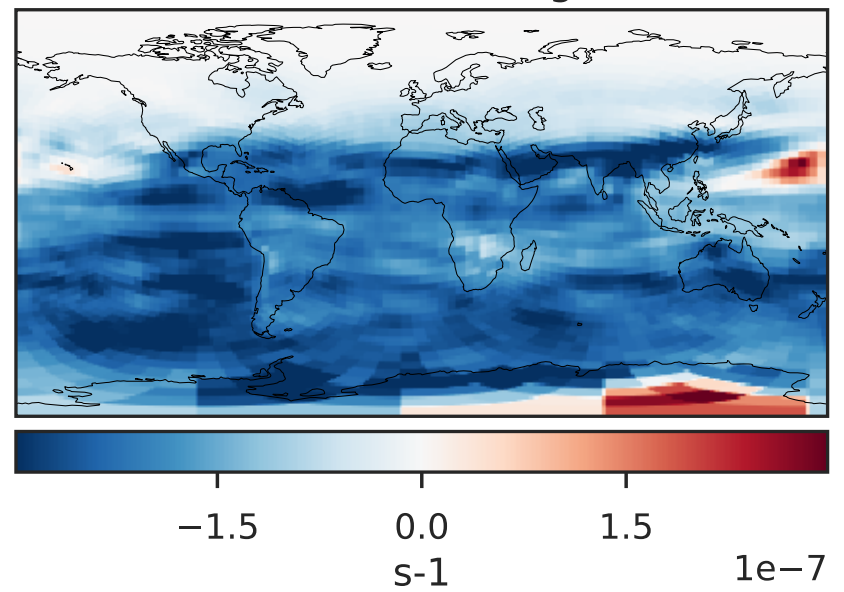
GCHP_14.2.0 (Dev)
c24



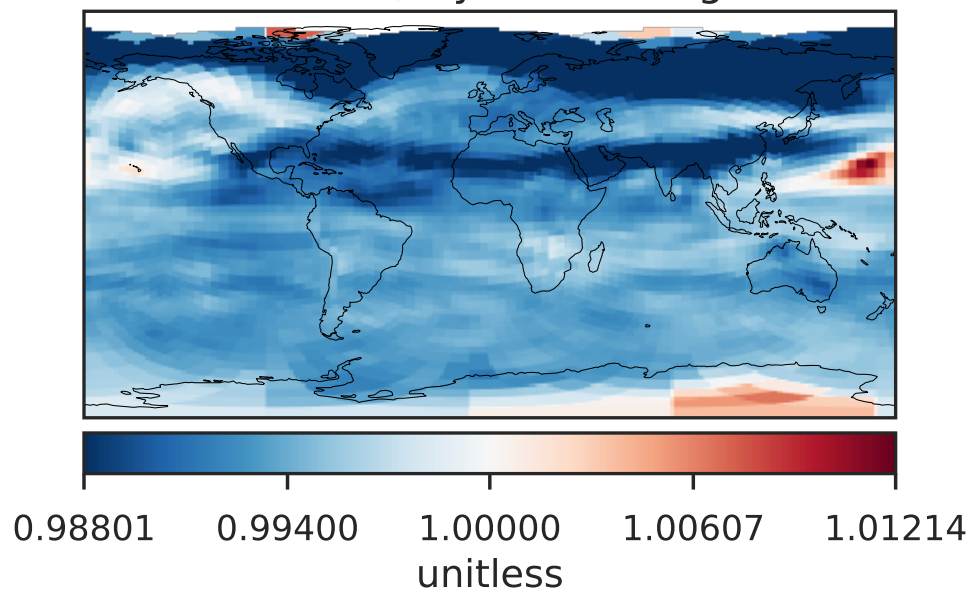
Difference (1x1.25)
Dev - Ref, Dynamic Range



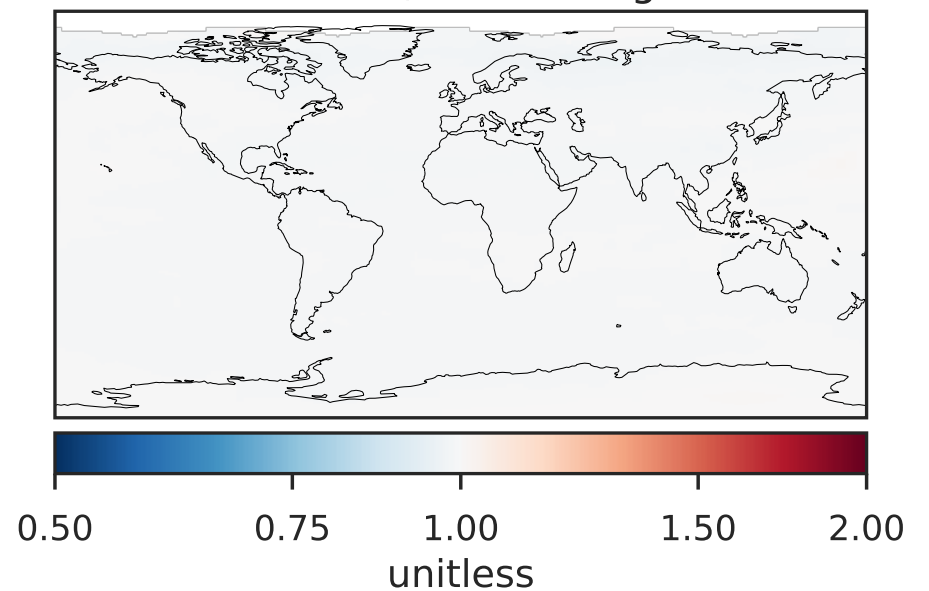
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

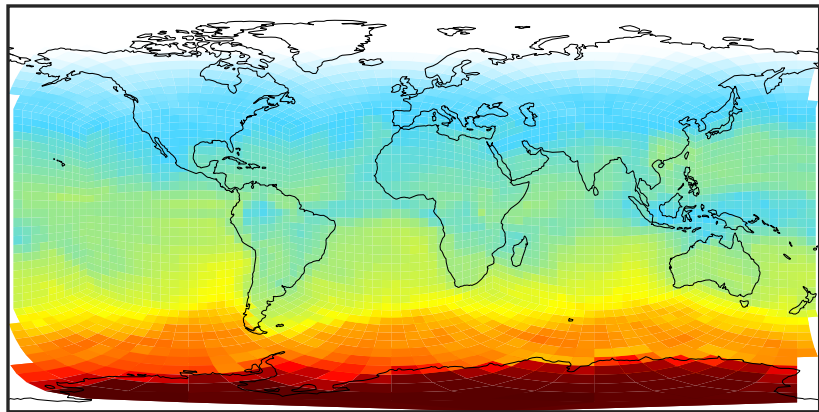


Ratio (1x1.25)
Dev/Ref, Fixed Range



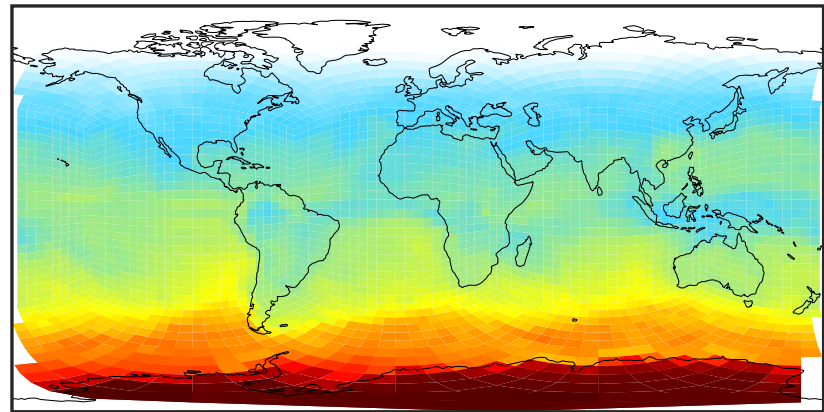
Jval_I2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



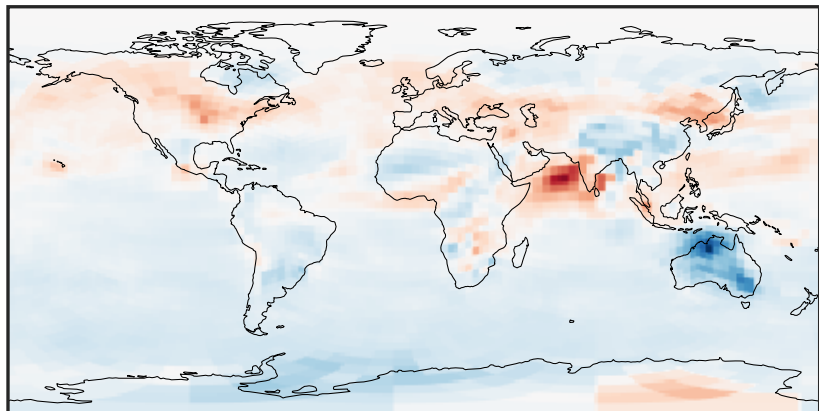
0.0000 0.0735 0.1470 0.2205 0.2940
s-1

GCHP_14.2.0 (Dev)
c24



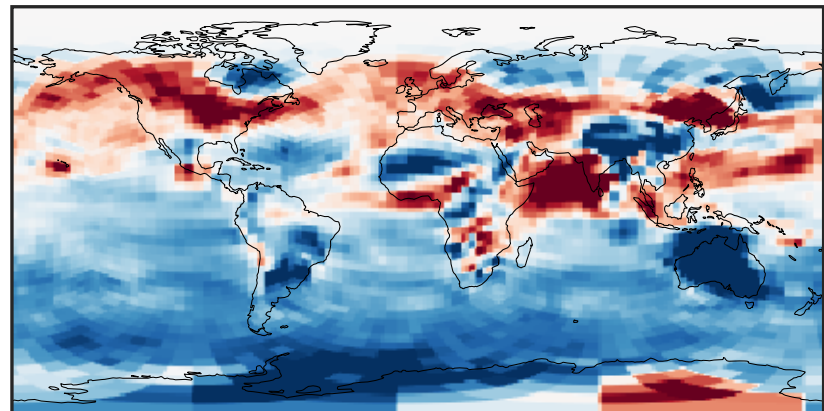
0.0000 0.0735 0.1470 0.2205 0.2940
s-1

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



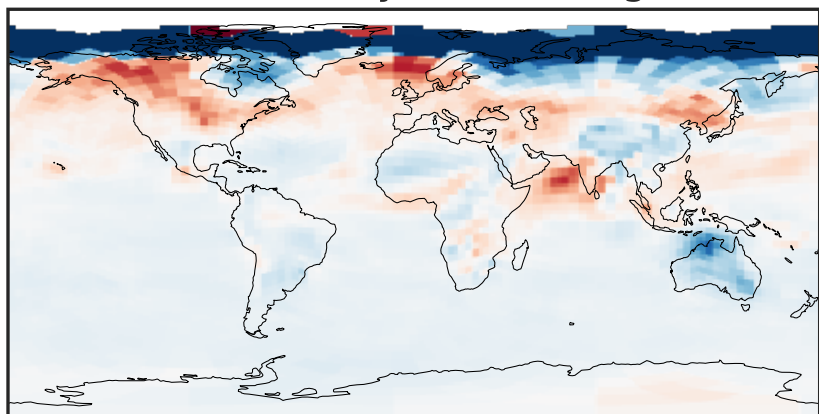
-0.00025 0.00000 0.00025
s-1

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



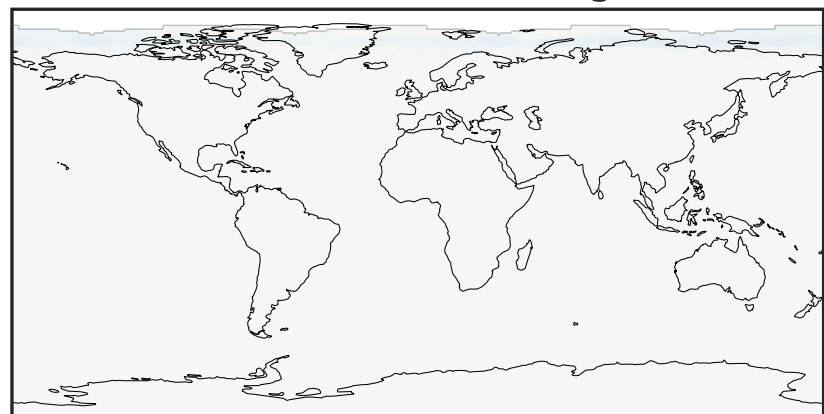
-6 0 6
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99427 0.99714 1.00000 1.00288 1.00576
unitless

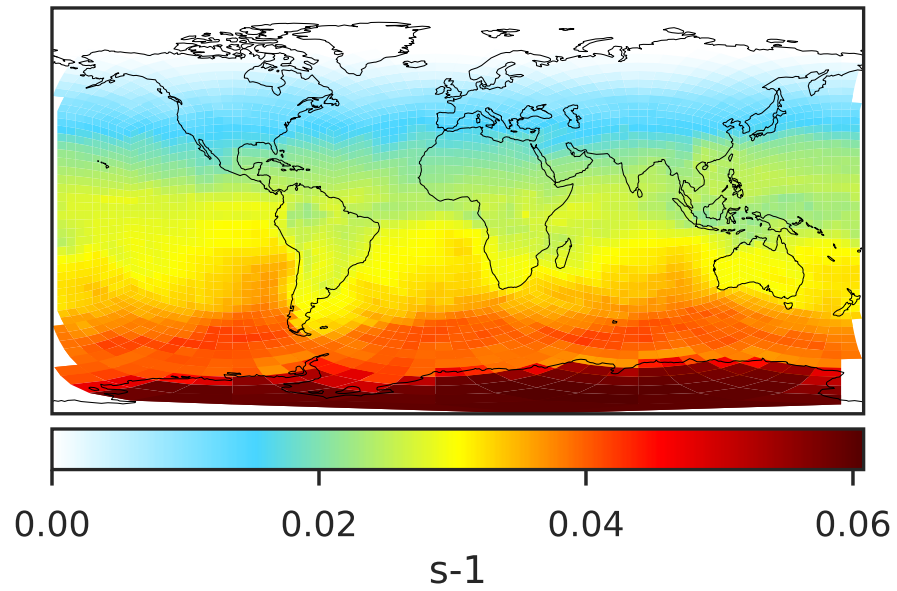
Ratio (1x1.25)
Dev/Ref, Fixed Range



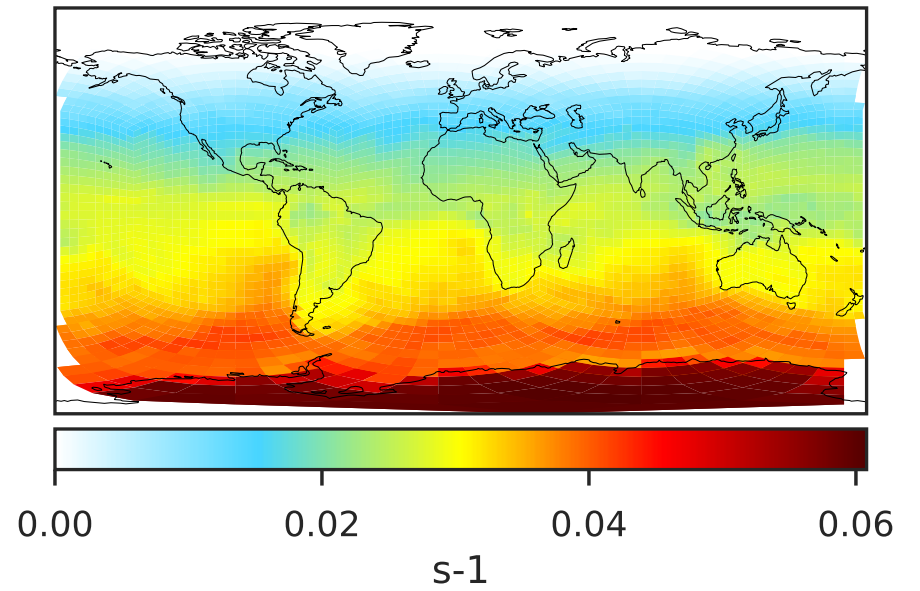
0.50 0.75 1.00 1.50 2.00
unitless

Jval_I2O2 (Jan2019)

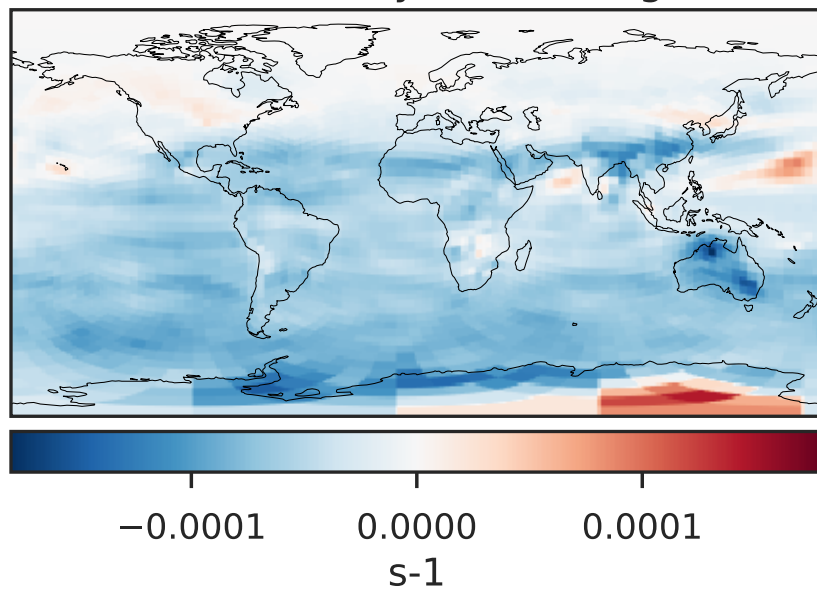
GCHP_14.0.0 (Ref)
c24



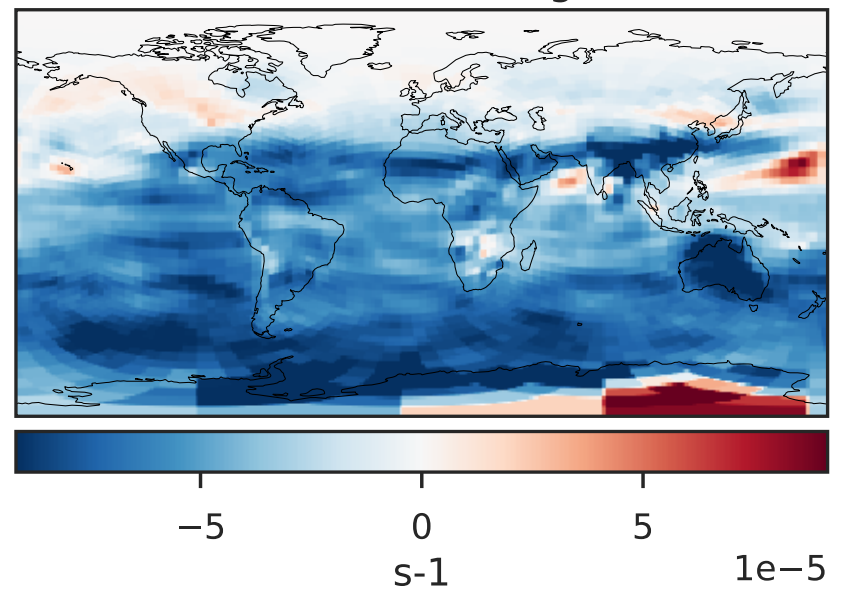
GCHP_14.2.0 (Dev)
c24



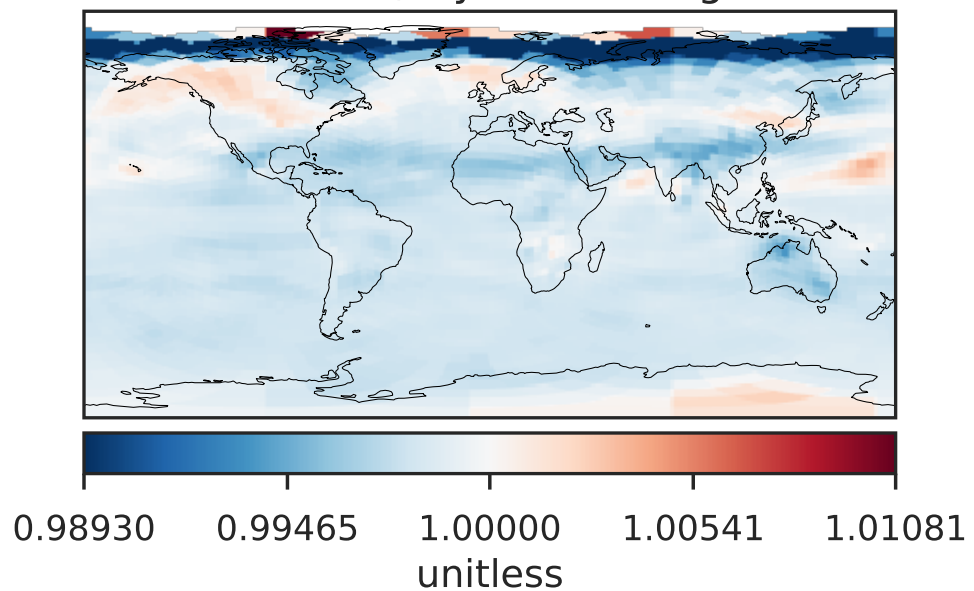
Difference (1x1.25)
Dev - Ref, Dynamic Range



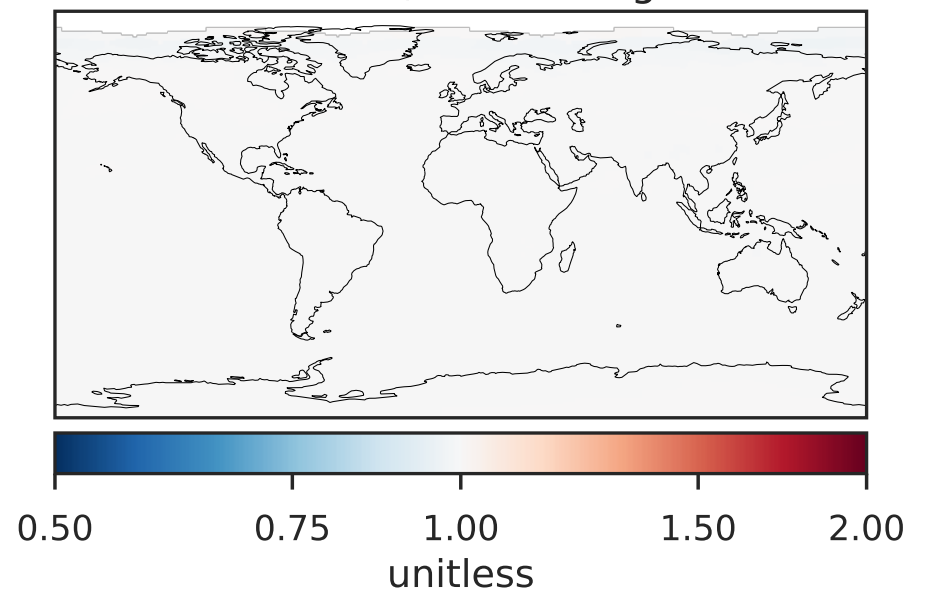
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

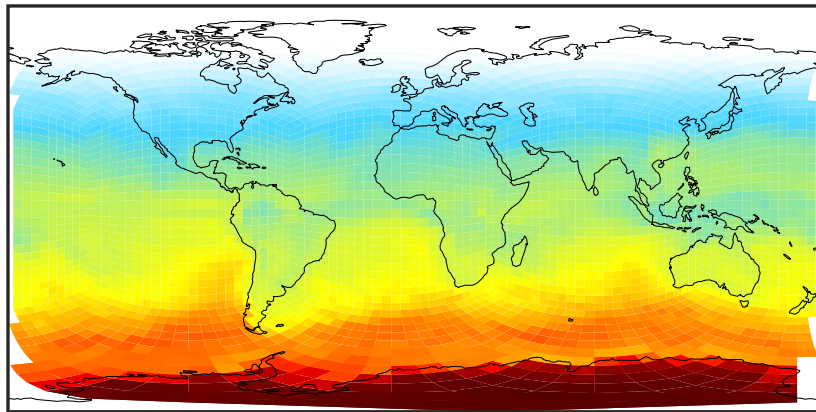


Ratio (1x1.25)
Dev/Ref, Fixed Range



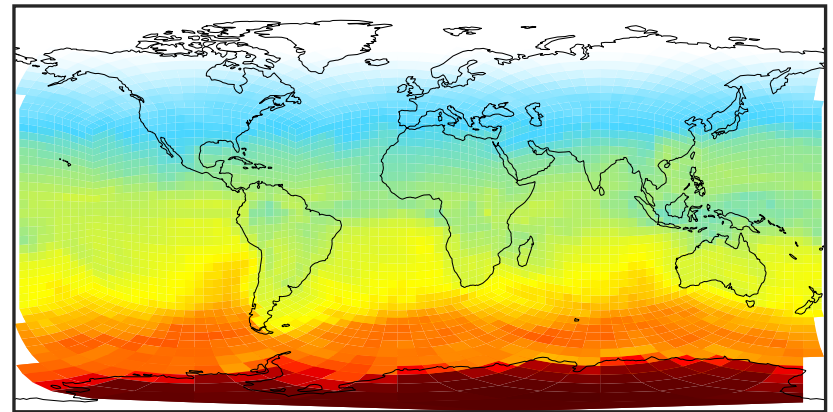
Jval_I2O3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



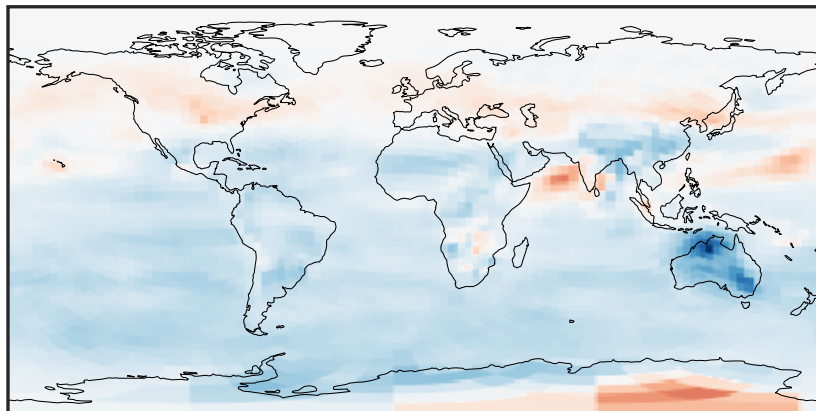
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



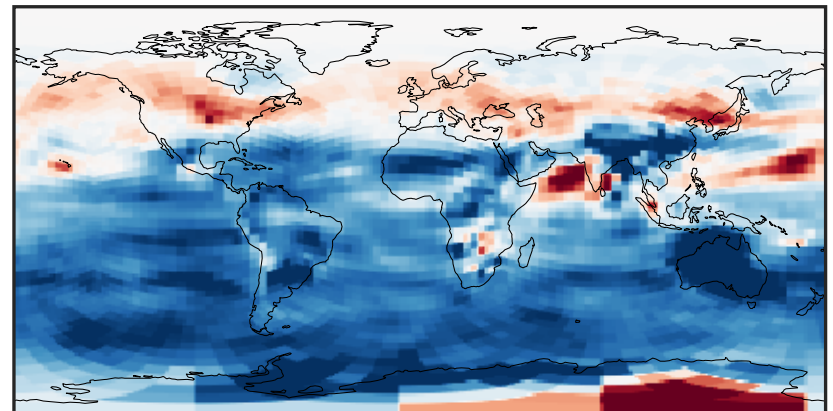
0.000 0.015 0.030 0.045
s-1

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



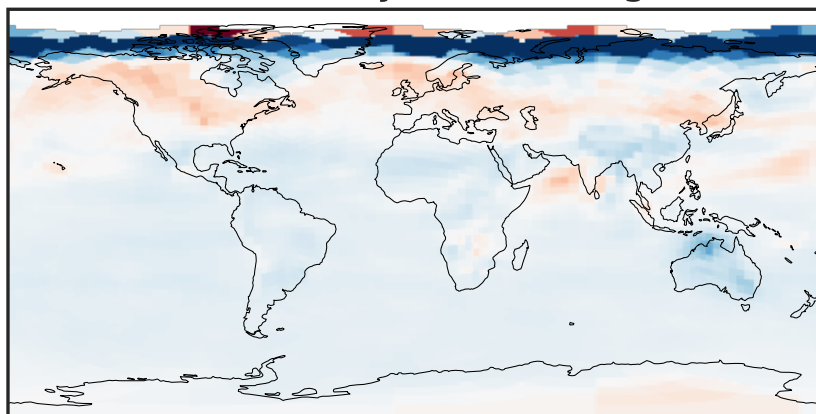
-8 0 8
s-1 1e-5

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



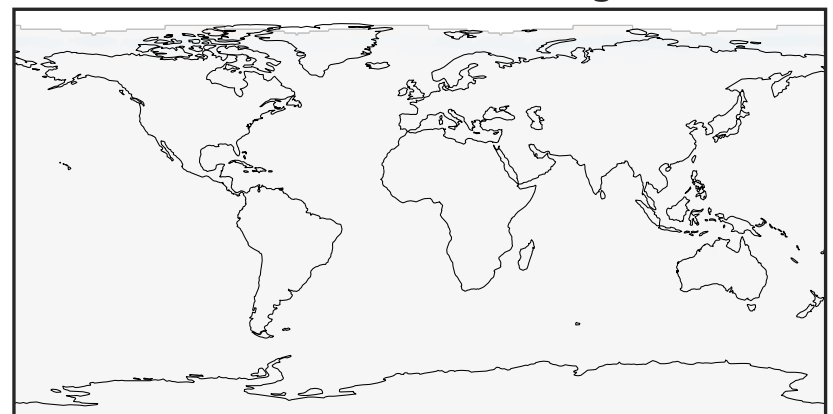
-2 0 2
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98887 0.99444 1.00000 1.00563 1.01125
unitless

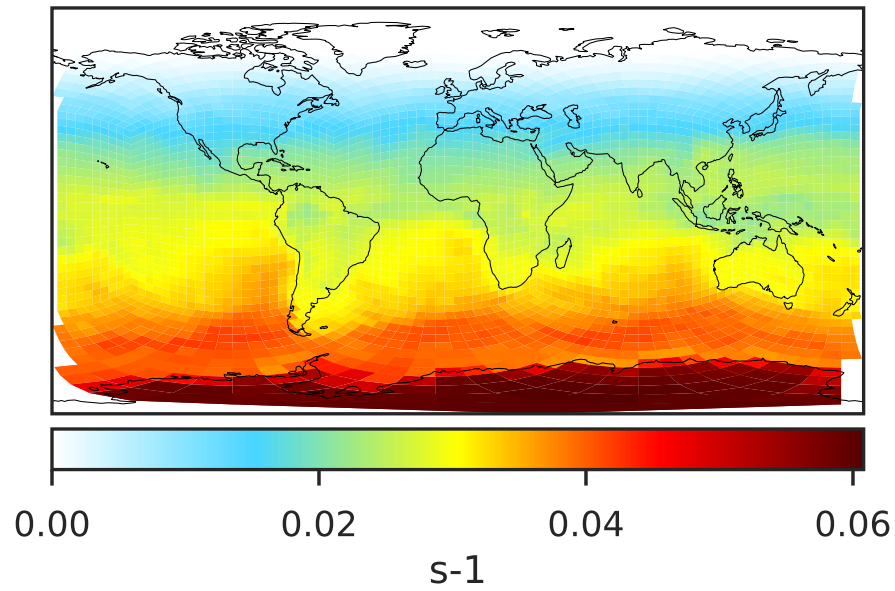
Ratio (1x1.25)
Dev/Ref, Fixed Range



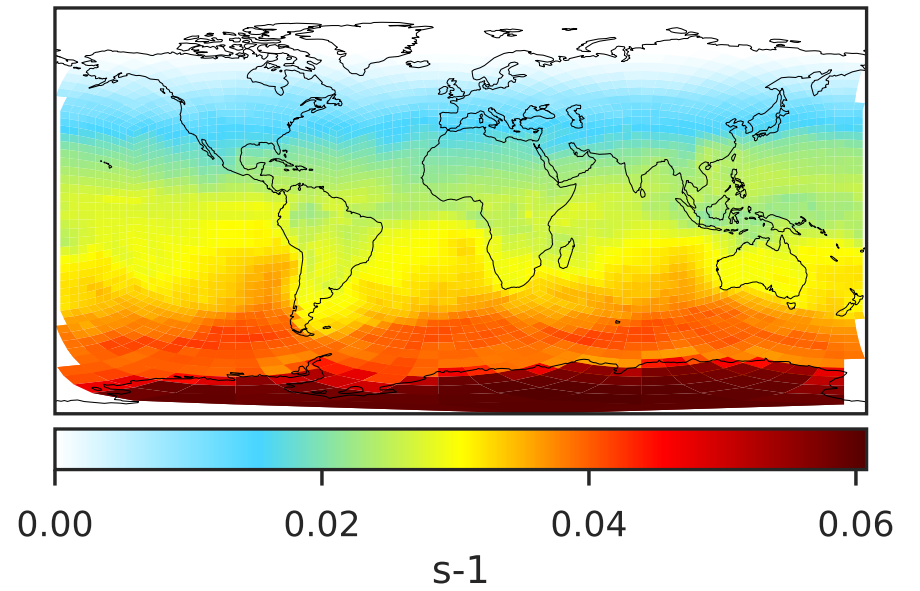
0.50 0.75 1.00 1.50 2.00
unitless

Jval_I2O4 (Jan2019)

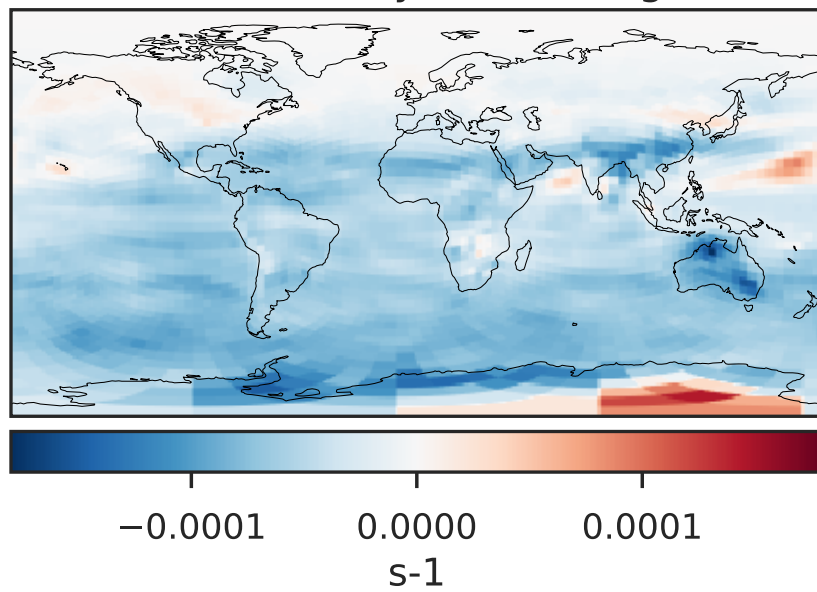
GCHP_14.0.0 (Ref)
c24



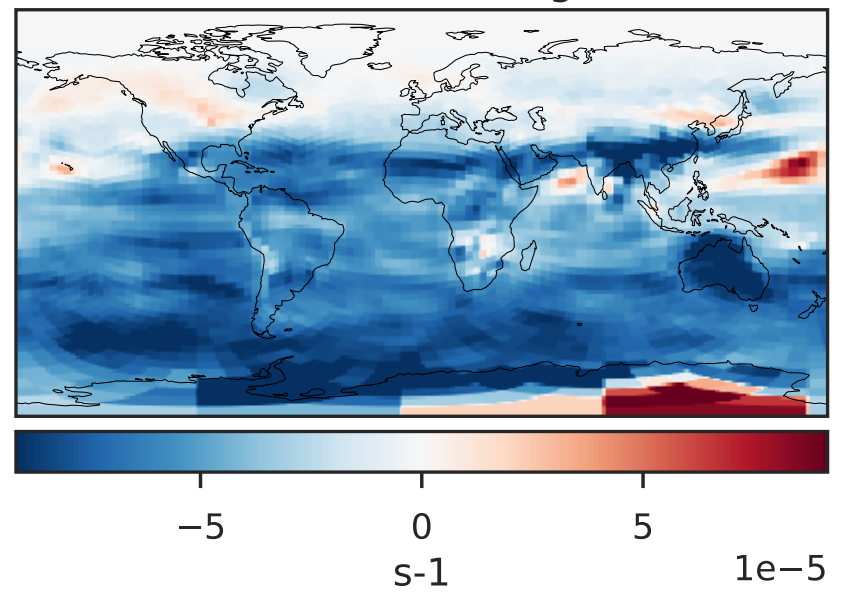
GCHP_14.2.0 (Dev)
c24



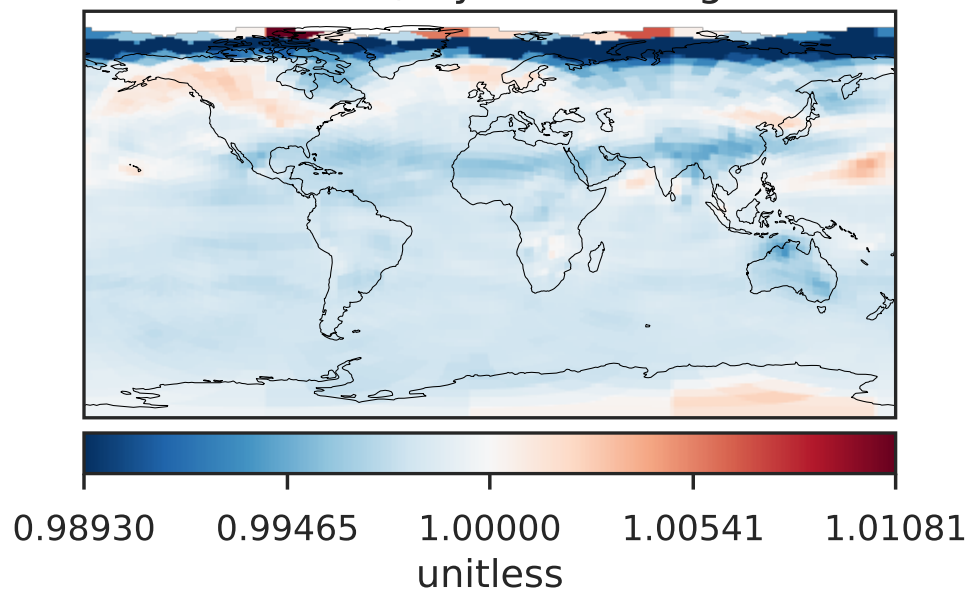
Difference (1x1.25)
Dev - Ref, Dynamic Range



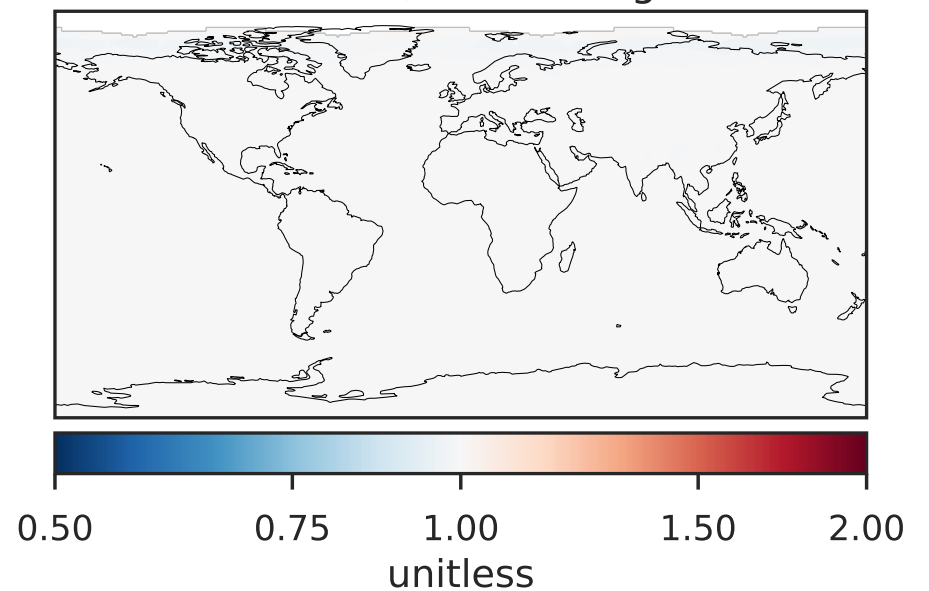
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

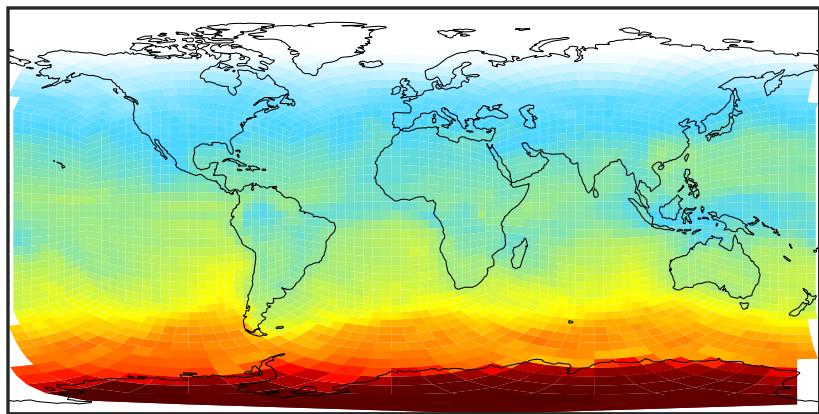


Ratio (1x1.25)
Dev/Ref, Fixed Range



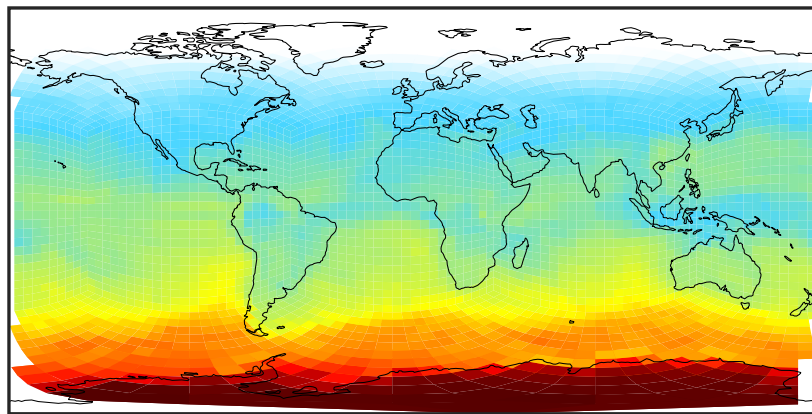
Jval_IBr (Jan2019)

GCHP_14.0.0 (Ref)
c24



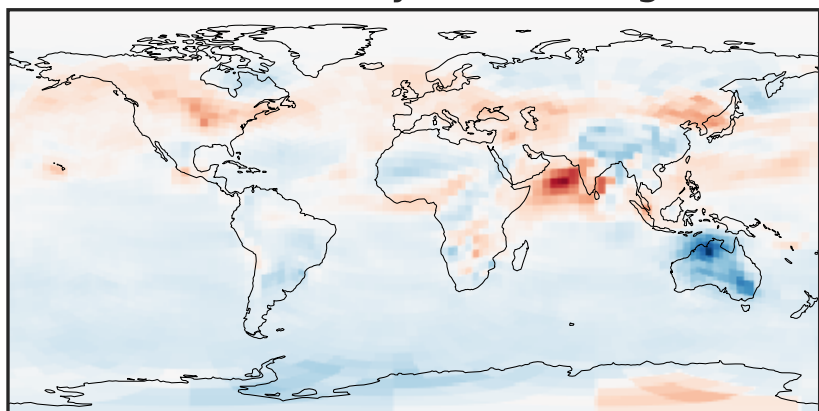
0.0000 0.0307 0.0615 0.0922 0.1230
s-1

GCHP_14.2.0 (Dev)
c24



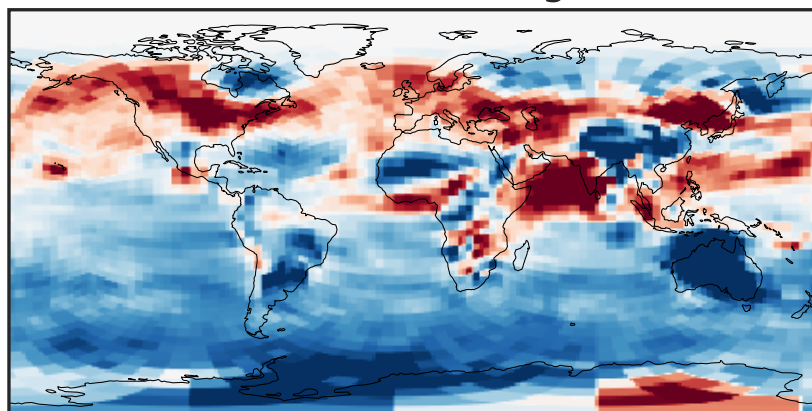
0.0000 0.0307 0.0615 0.0922 0.1230
s-1

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



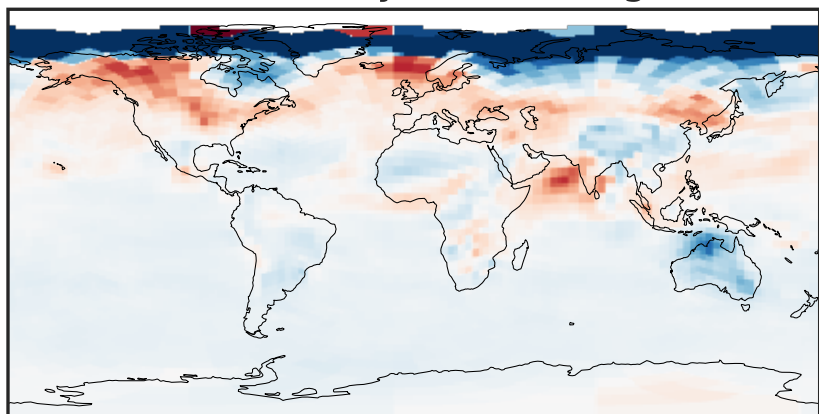
-0.0001 0.0000 0.0001
s-1

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



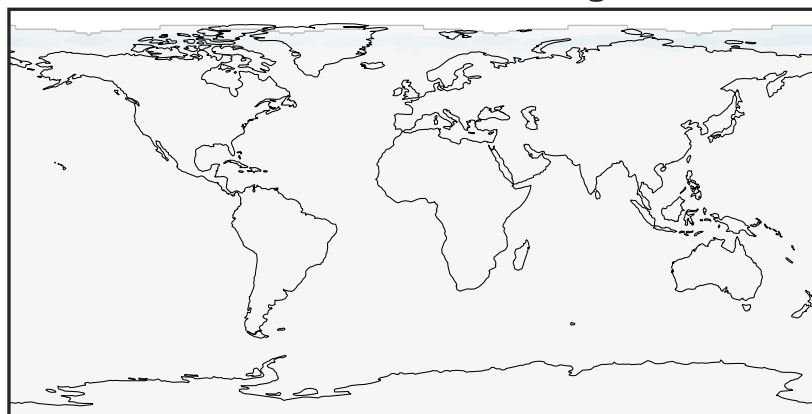
-2.5 0.0 2.5
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99410 0.99705 1.00000 1.00297 1.00593
unitless

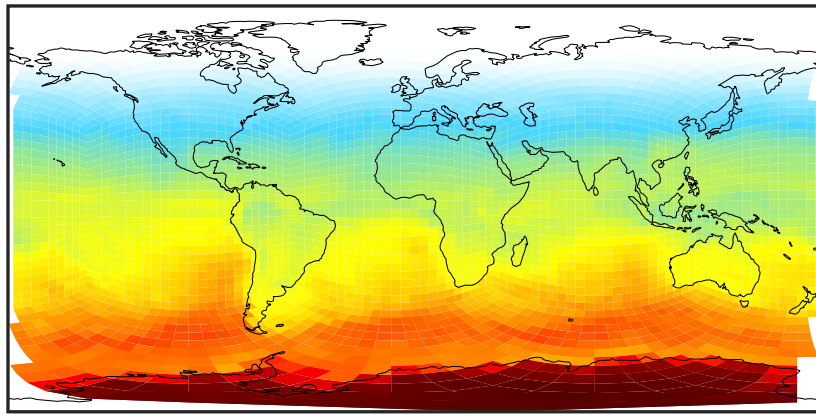
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

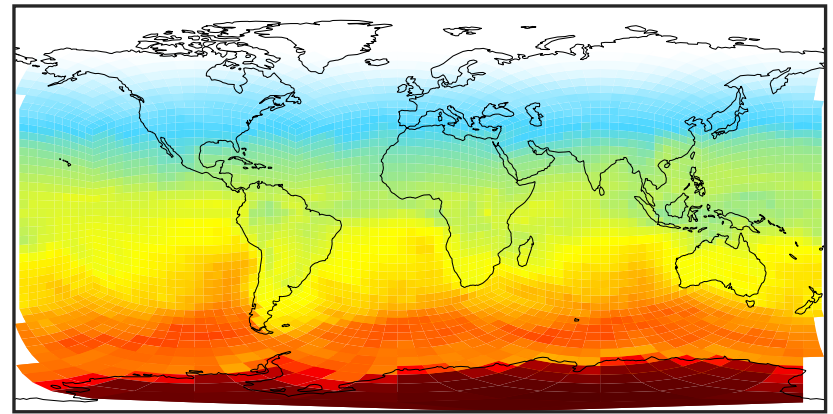
Jval_ICN (Jan2019)

GCHP_14.0.0 (Ref)
c24



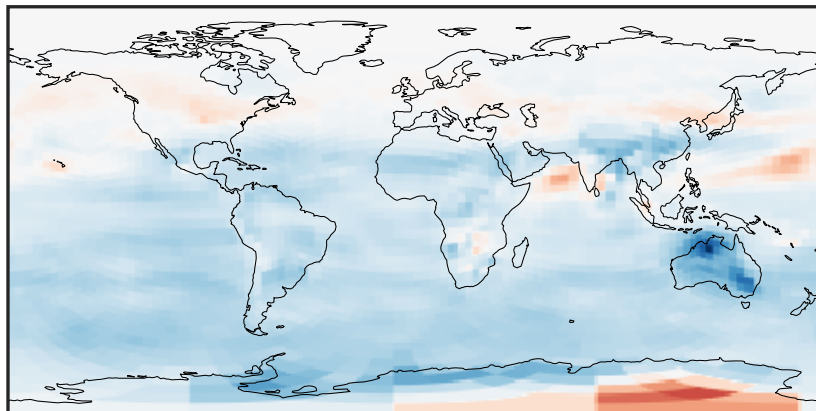
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



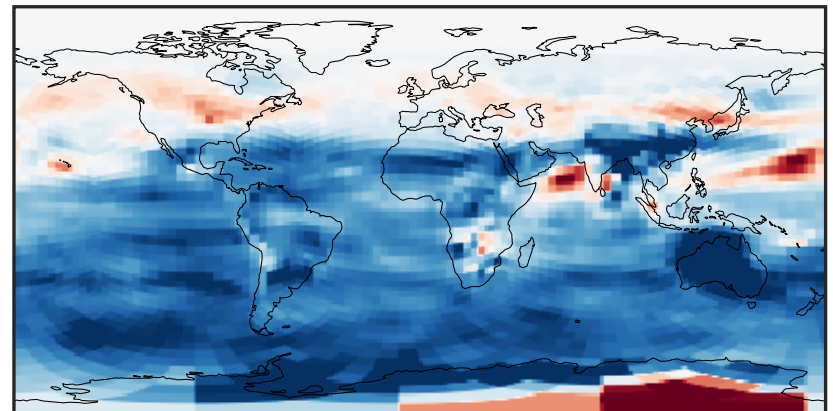
0.0000 0.0001 0.0002 0.0003
s-1

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



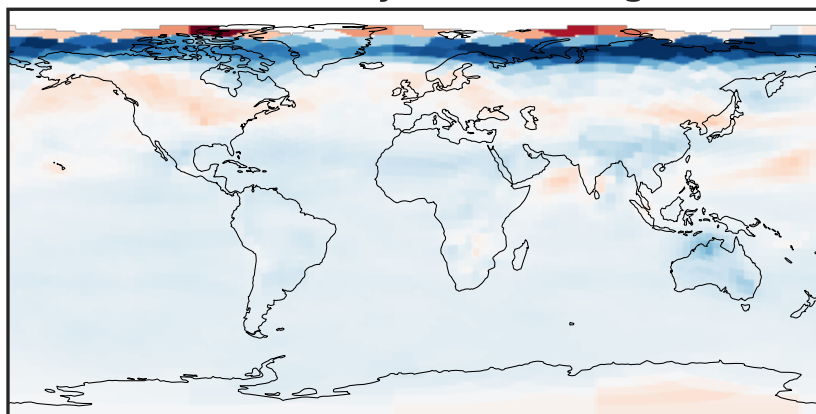
-6 0 6
s-1 1e-7

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



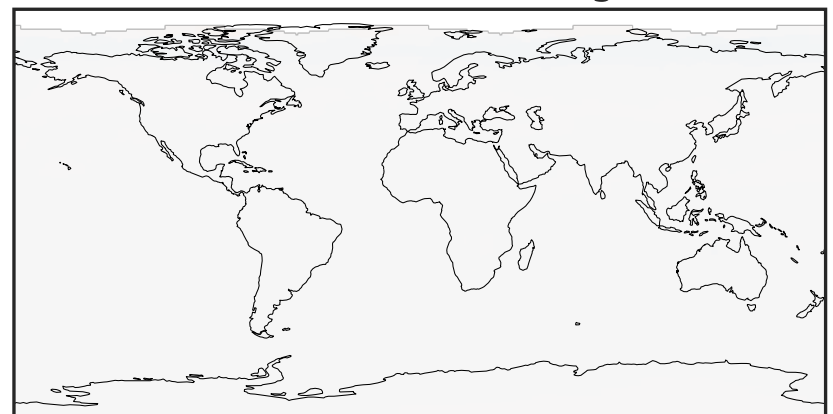
-2 0 2
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98713 0.99356 1.00000 1.00652 1.01304
unitless

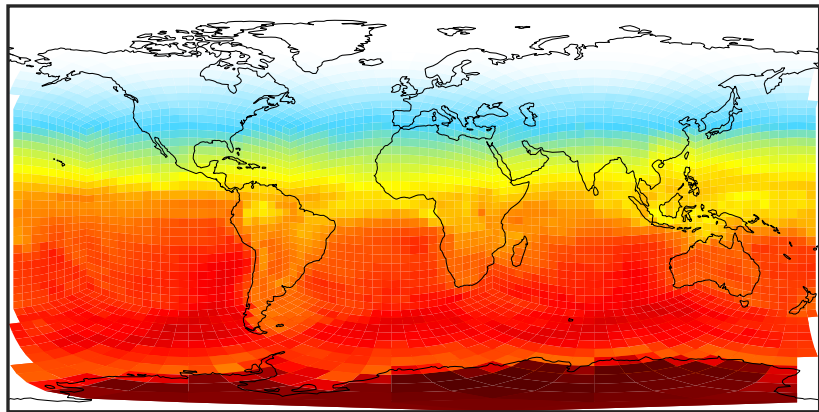
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

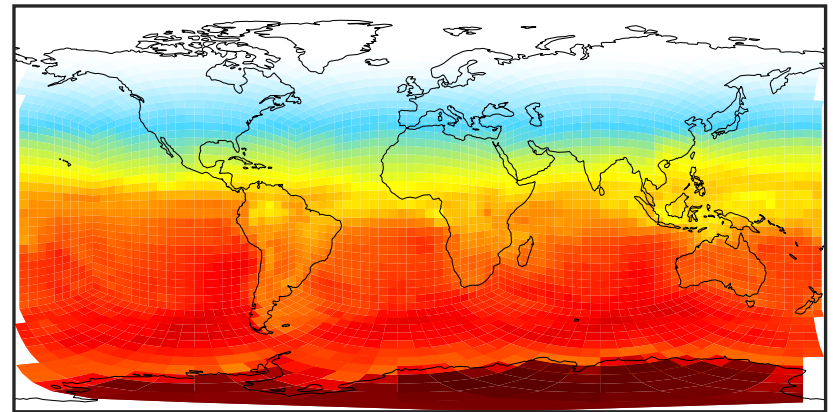
Jval_ICPDH (Jan2019)

GCHP_14.0.0 (Ref)
c24



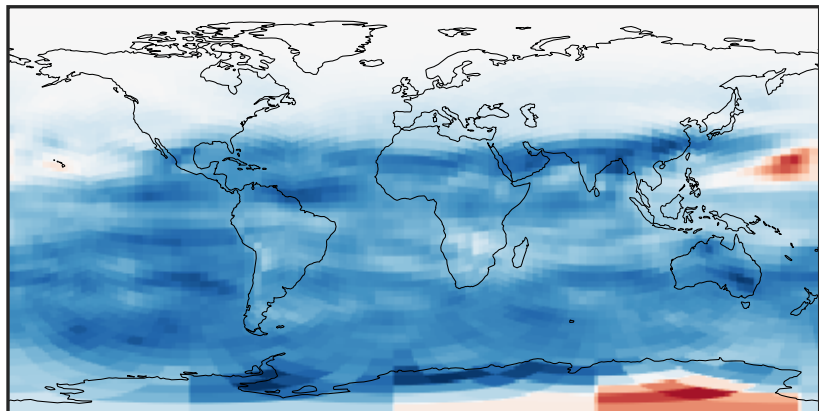
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



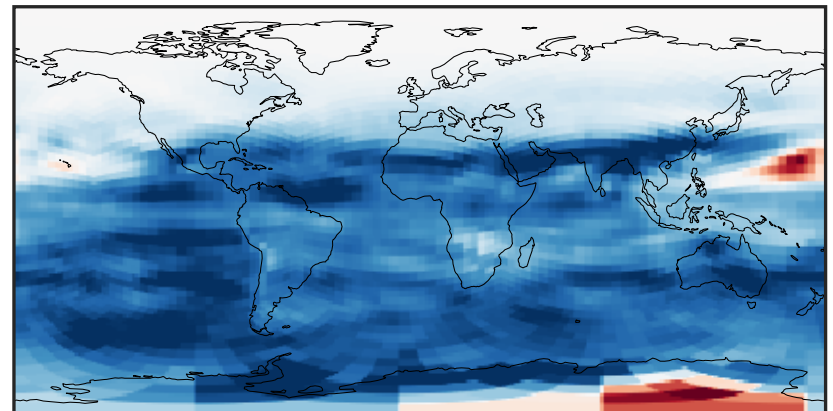
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



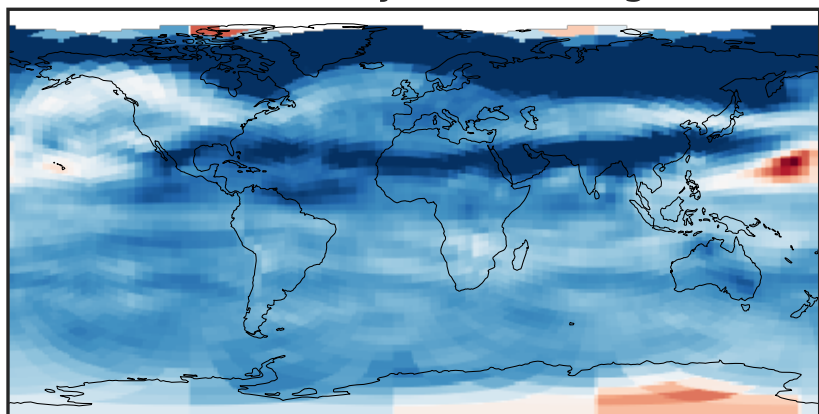
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

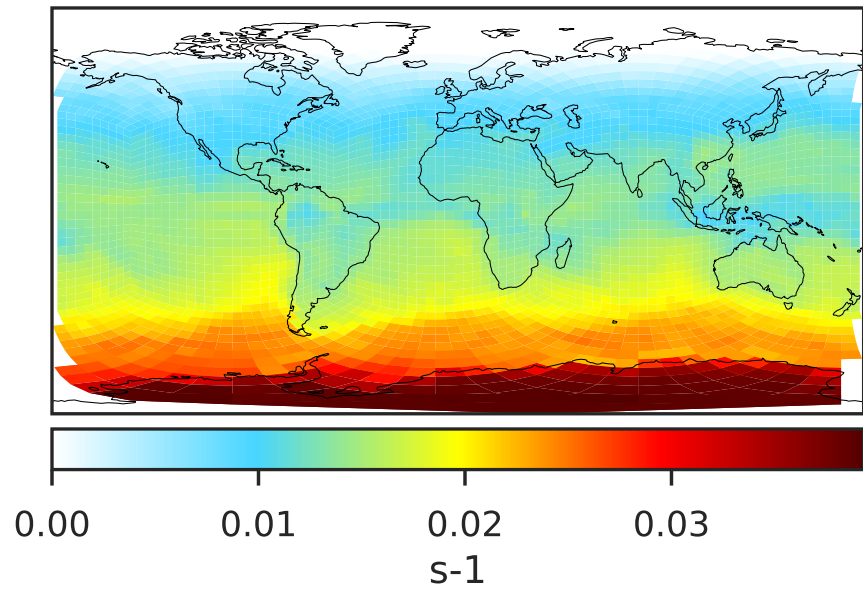
Ratio (1x1.25)
Dev/Ref, Fixed Range



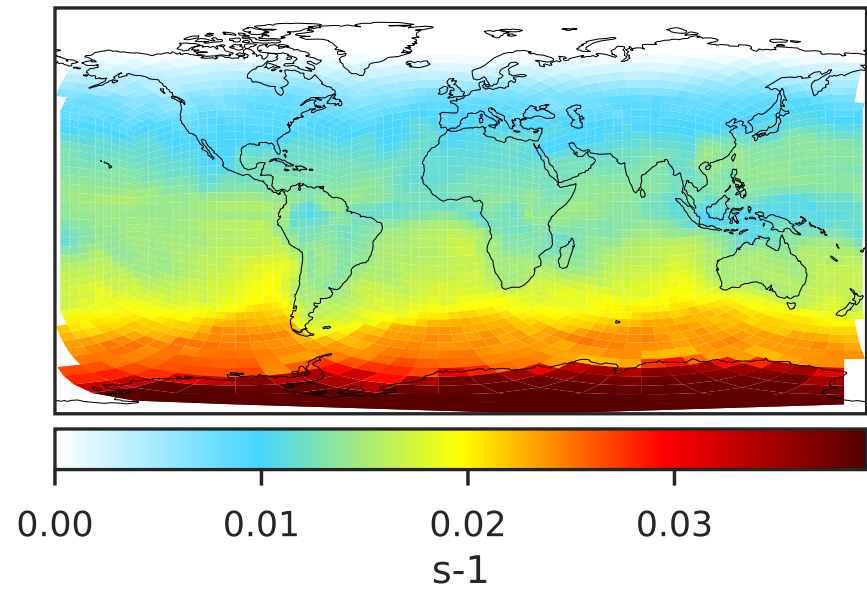
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ICI (Jan2019)

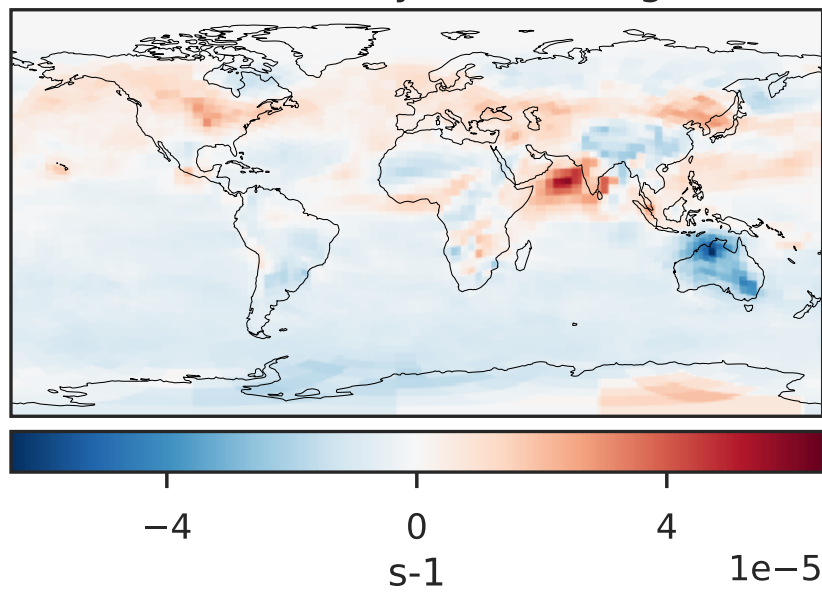
GCHP_14.0.0 (Ref)
c24



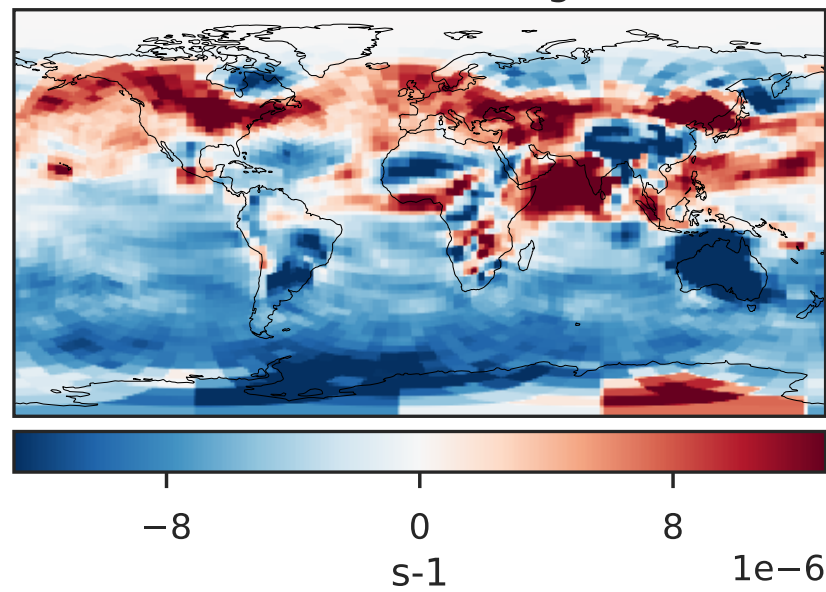
GCHP_14.2.0 (Dev)
c24



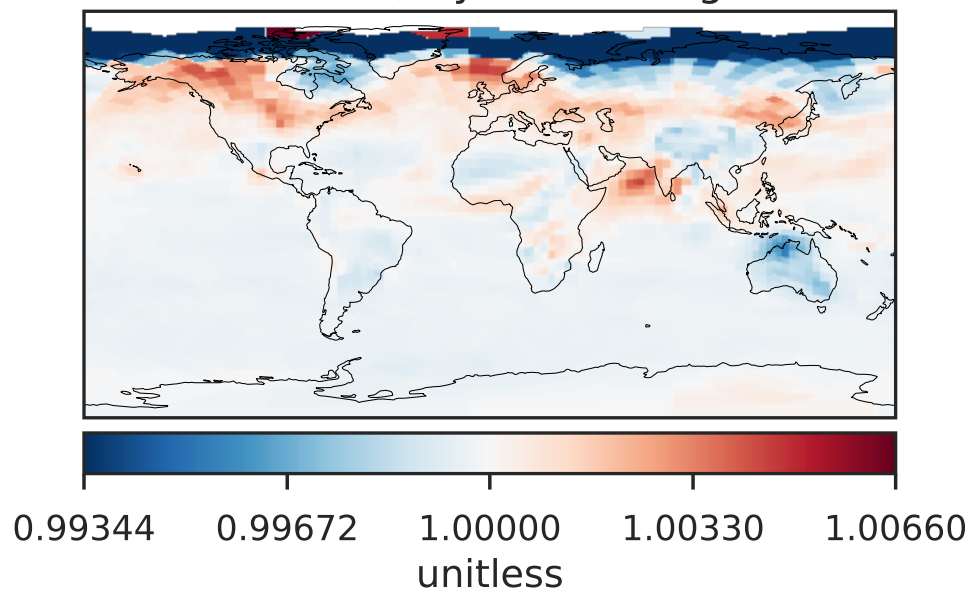
Difference (1x1.25)
Dev - Ref, Dynamic Range



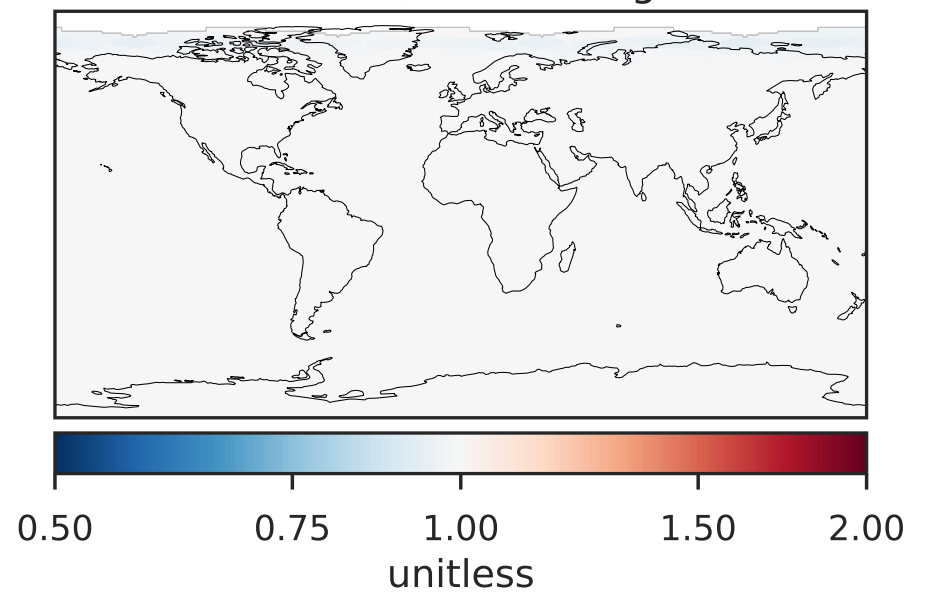
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

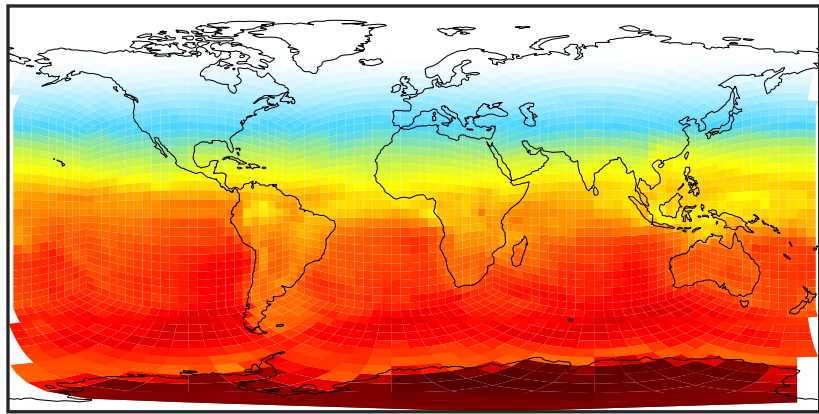


Ratio (1x1.25)
Dev/Ref, Fixed Range



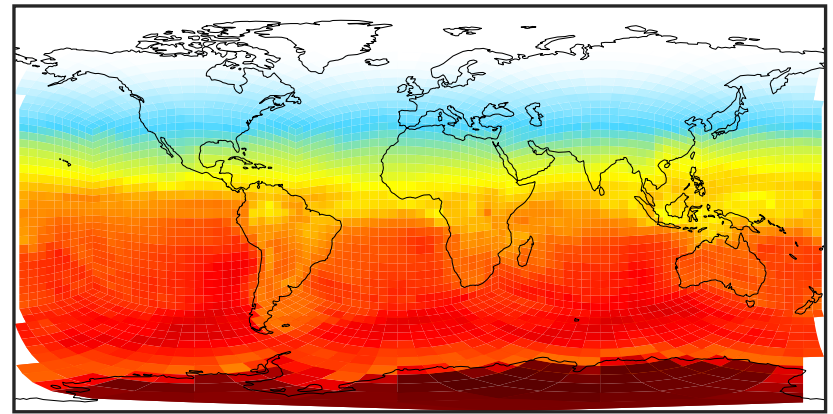
Jval_IDCHP (Jan2019)

GCHP_14.0.0 (Ref)
c24



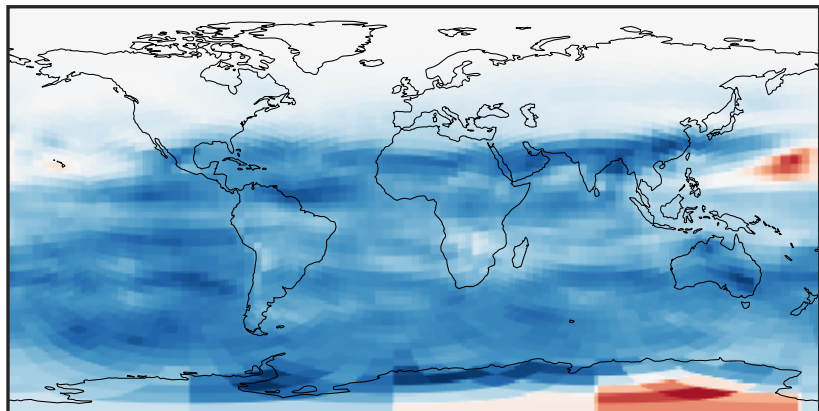
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



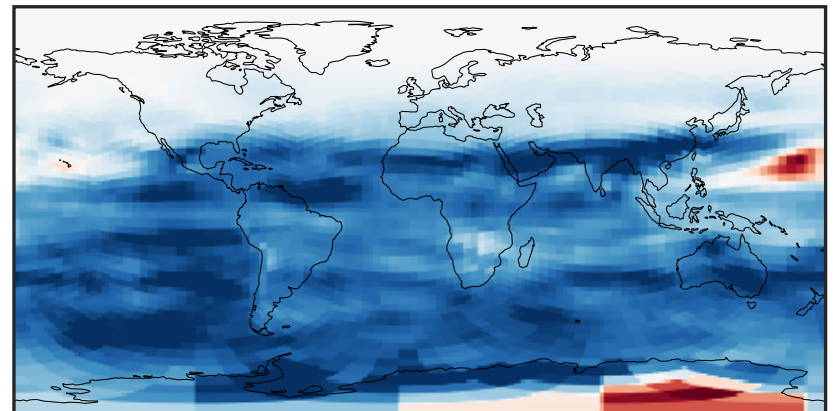
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



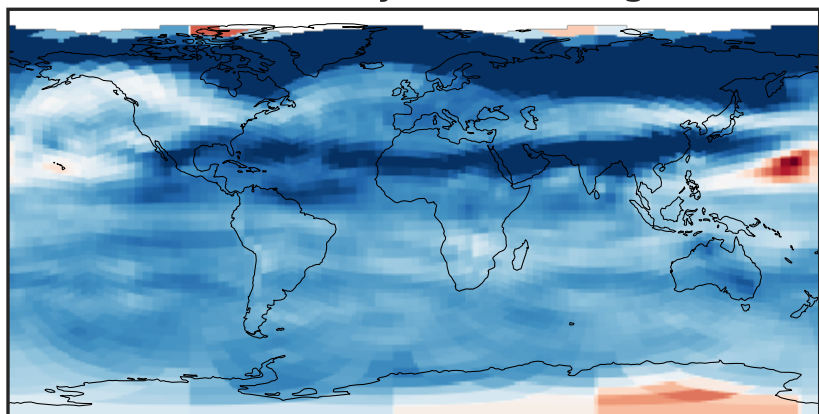
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

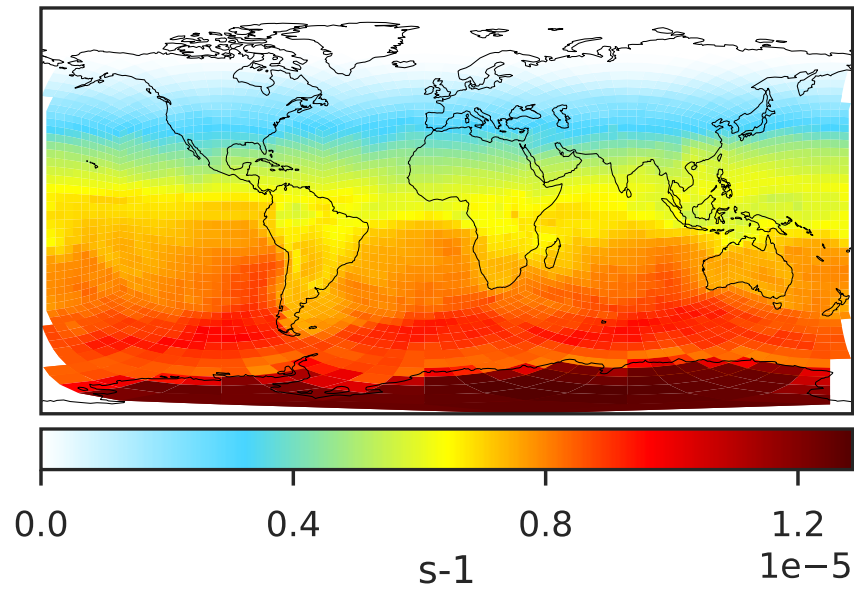
Ratio (1x1.25)
Dev/Ref, Fixed Range



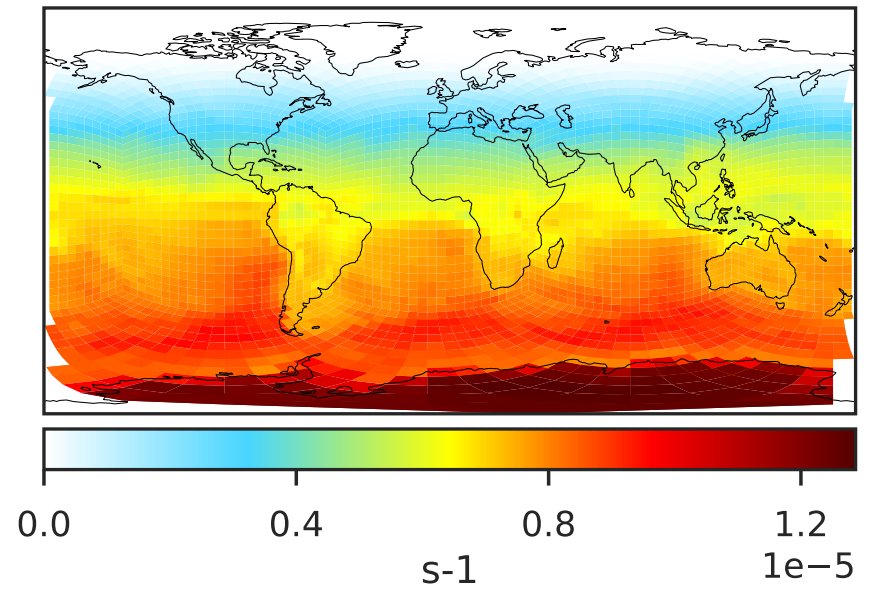
0.50 0.75 1.00 1.50 2.00
unitless

Jval_IDHDP (Jan2019)

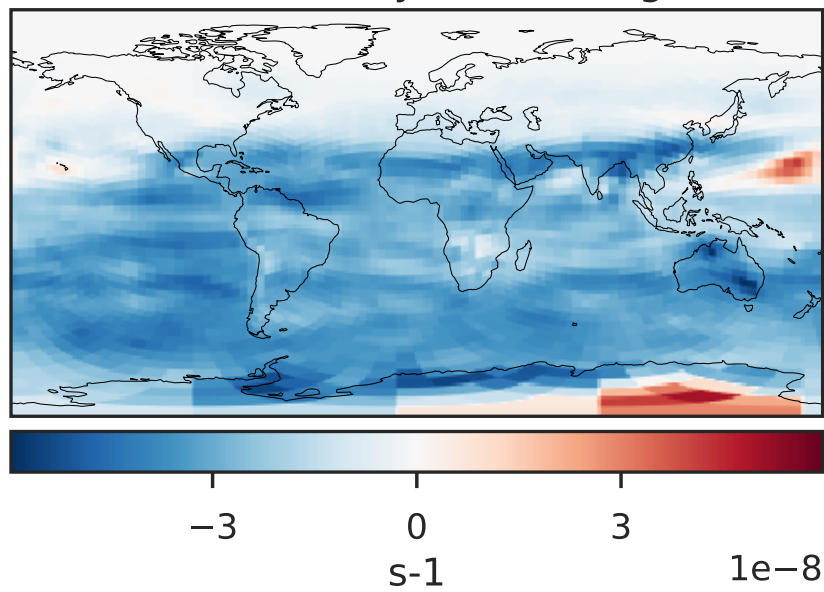
GCHP_14.0.0 (Ref)
c24



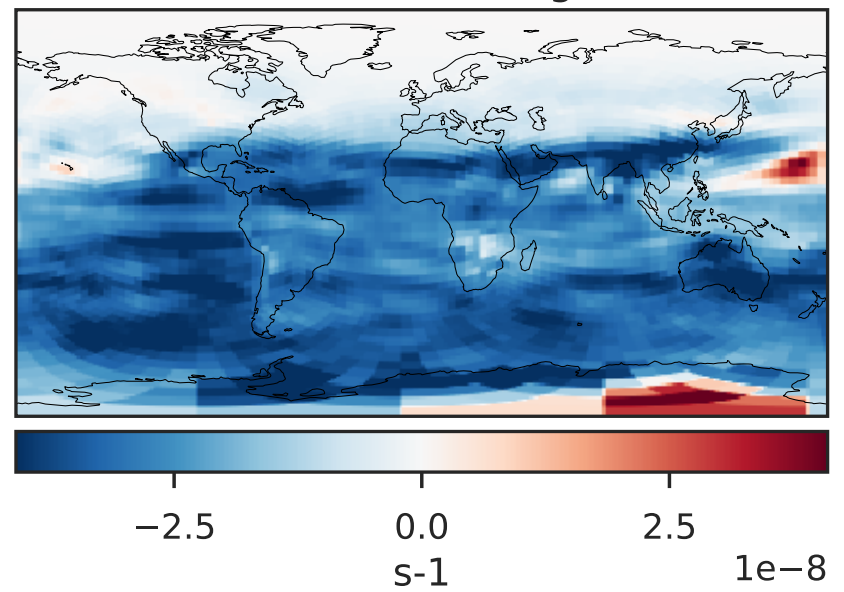
GCHP_14.2.0 (Dev)
c24



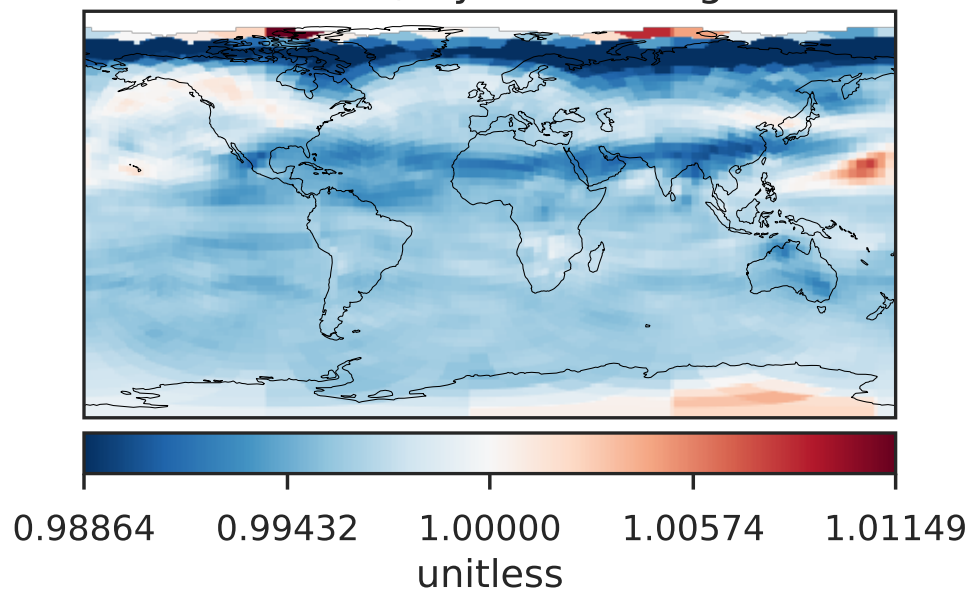
Difference (1x1.25)
Dev - Ref, Dynamic Range



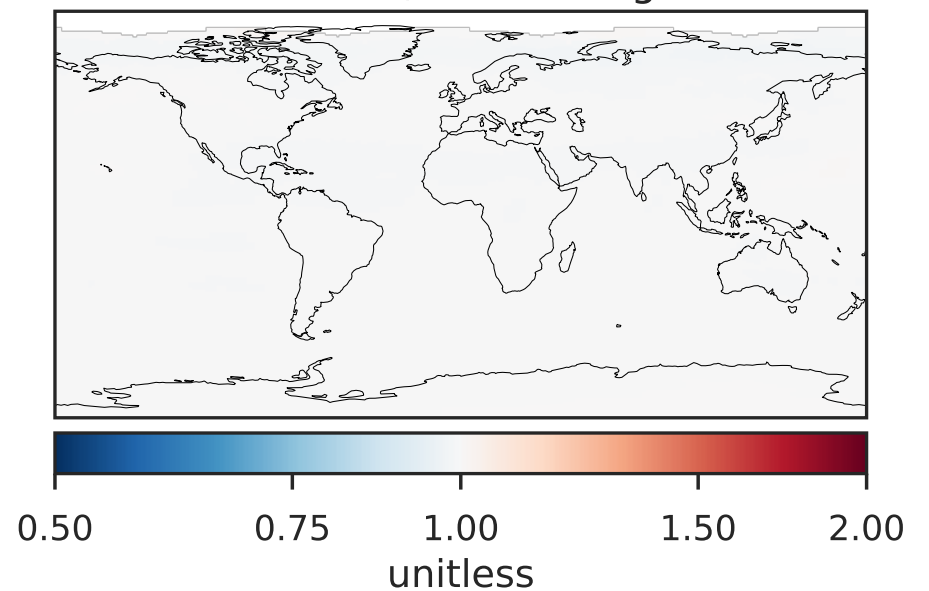
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

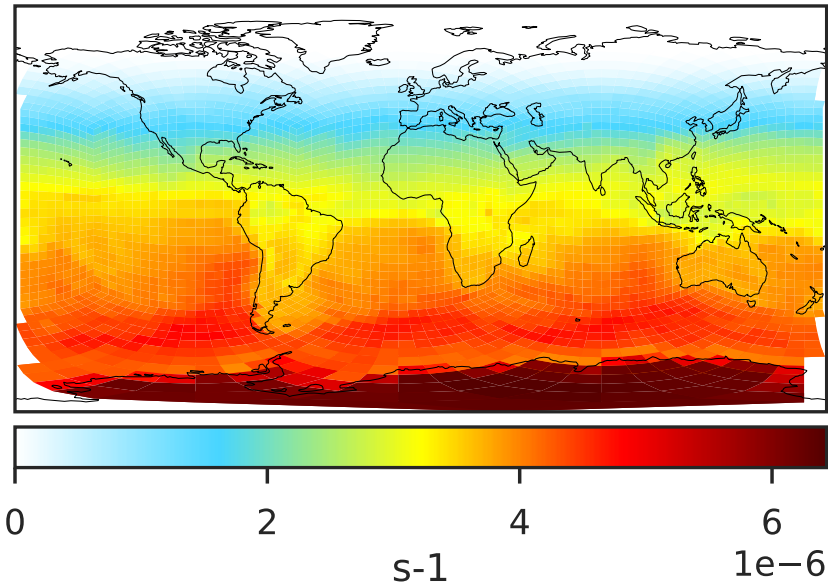


Ratio (1x1.25)
Dev/Ref, Fixed Range

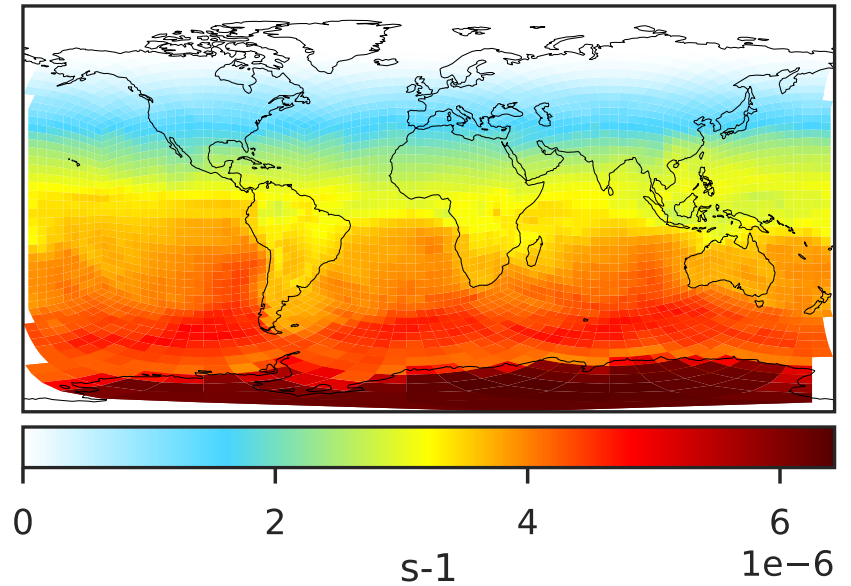


Jval_IDHPE (Jan2019)

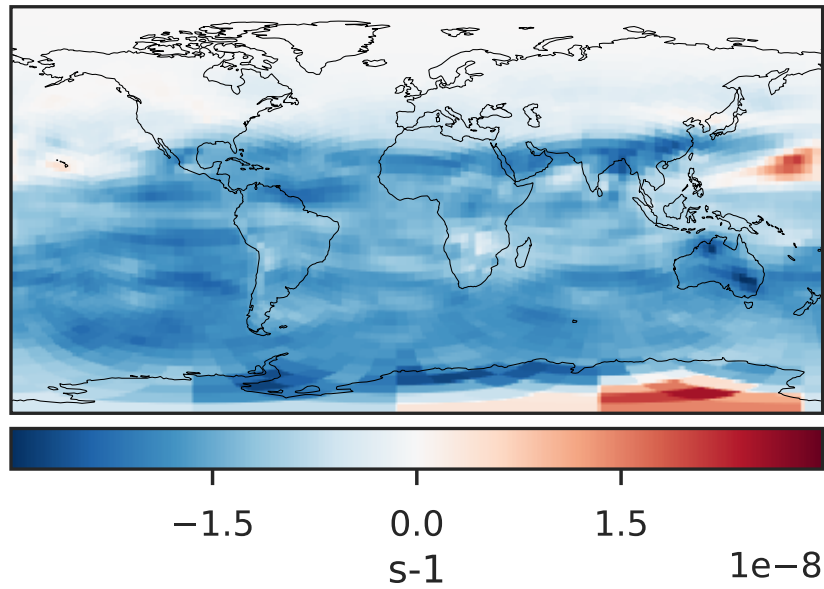
GCHP_14.0.0 (Ref)
c24



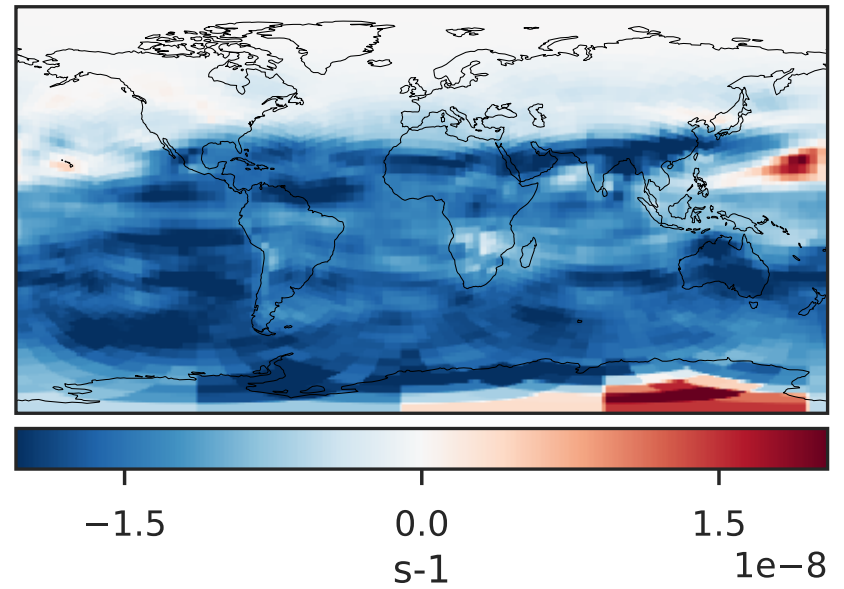
GCHP_14.2.0 (Dev)
c24



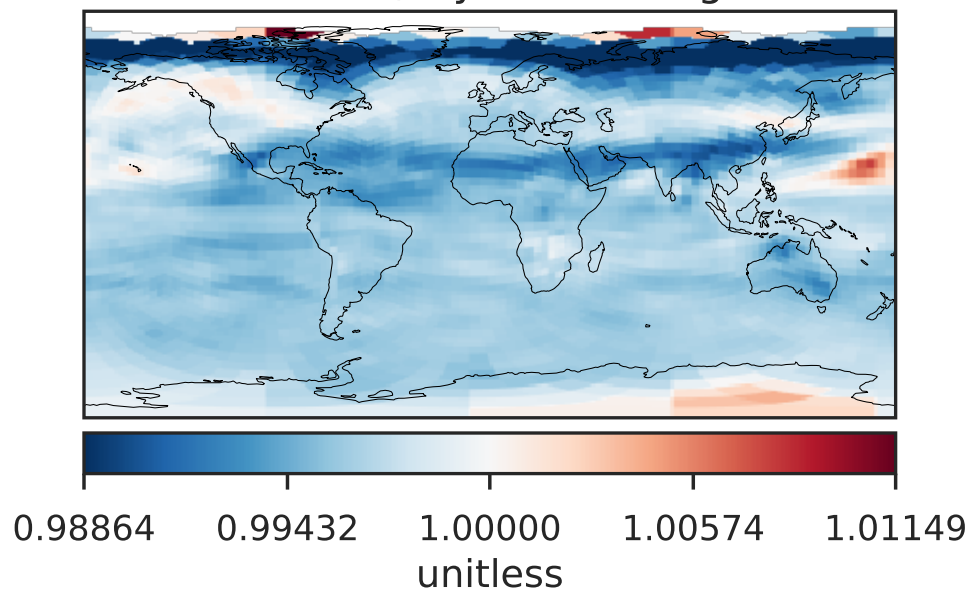
Difference (1x1.25)
Dev - Ref, Dynamic Range



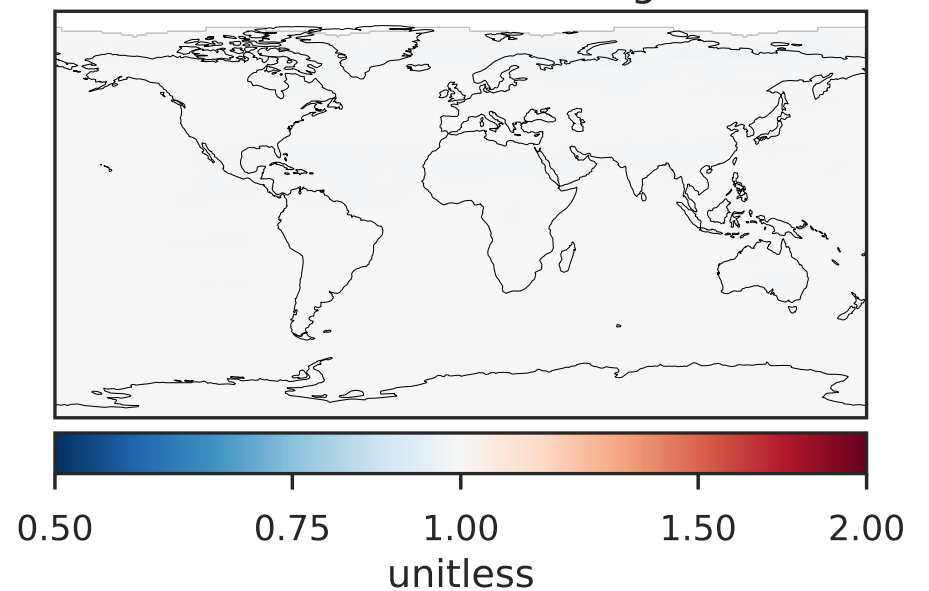
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

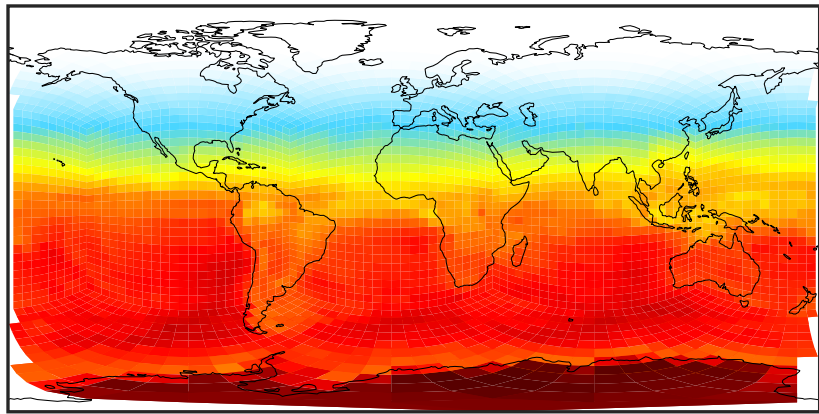


Ratio (1x1.25)
Dev/Ref, Fixed Range



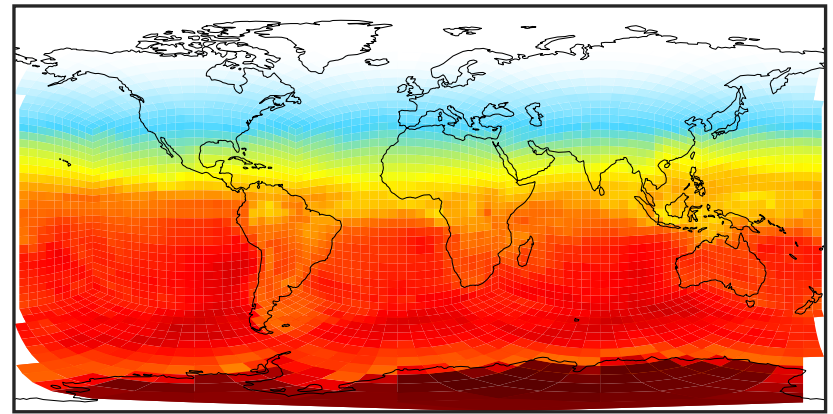
Jval_IDN (Jan2019)

GCHP_14.0.0 (Ref)
c24



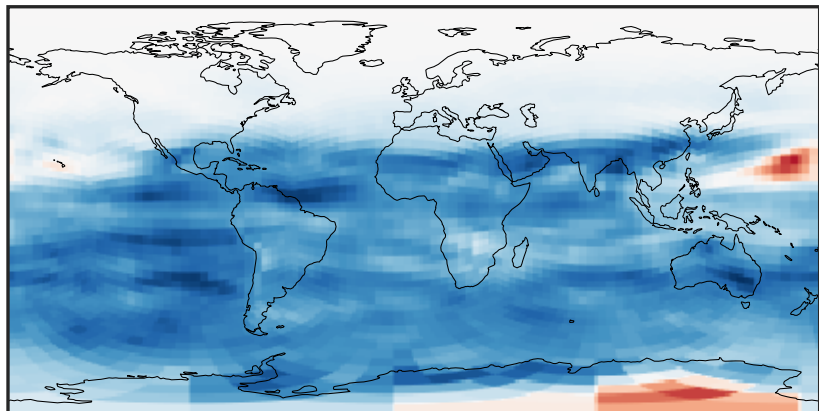
0.0 1.5 3.0 4.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



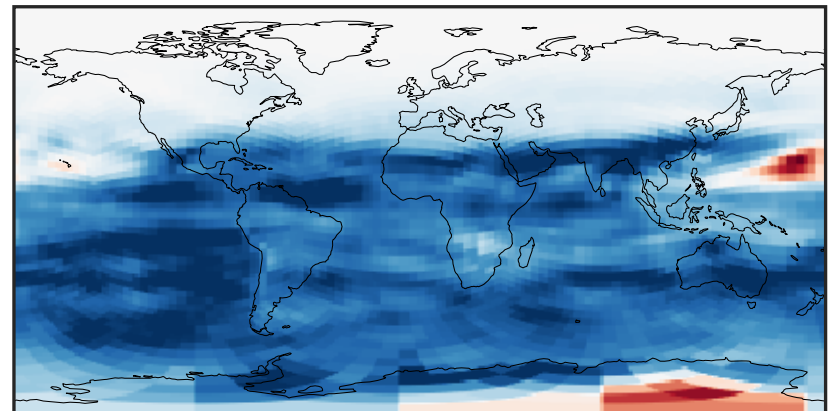
0.0 1.5 3.0 4.5
s-1 $1e-6$

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



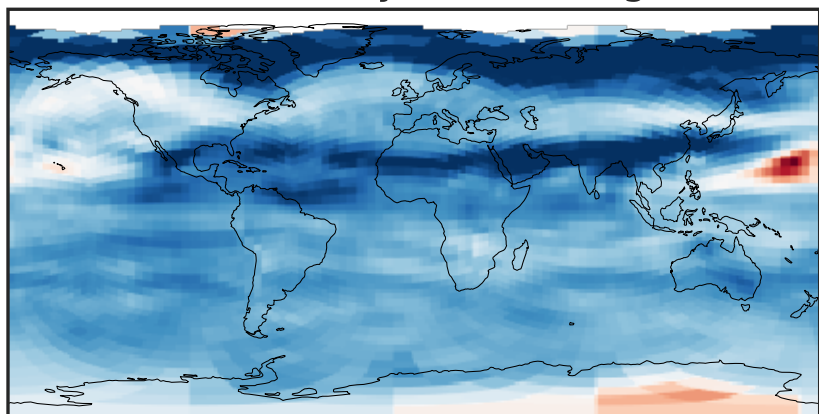
-2.5 0.0 2.5
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

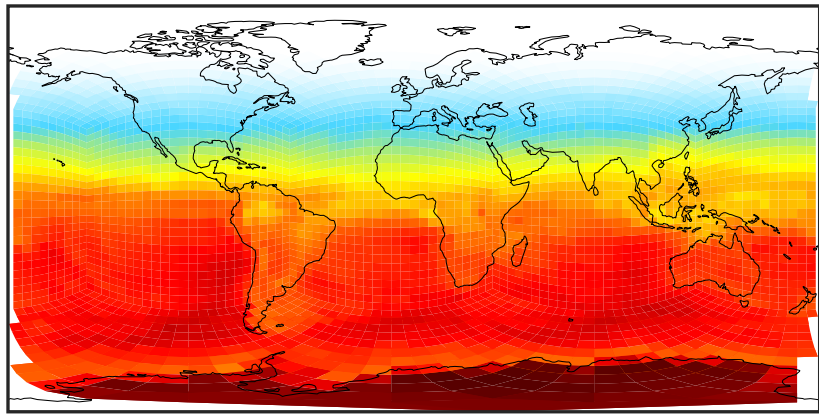
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

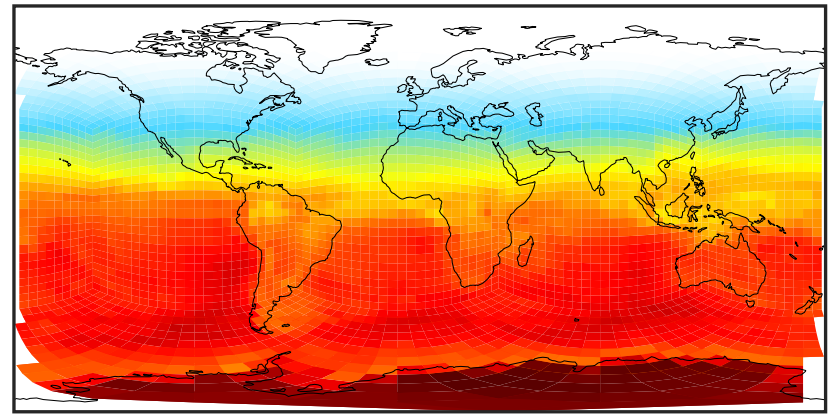
Jval_IHN1 (Jan2019)

GCHP_14.0.0 (Ref)
c24



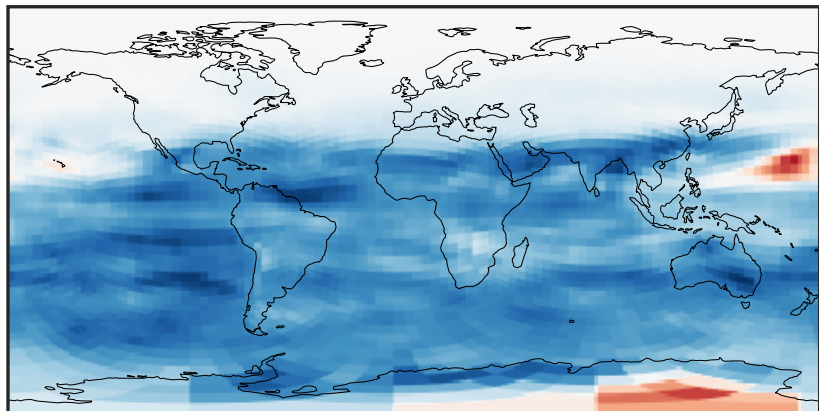
0.0 0.6 1.2 1.8
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



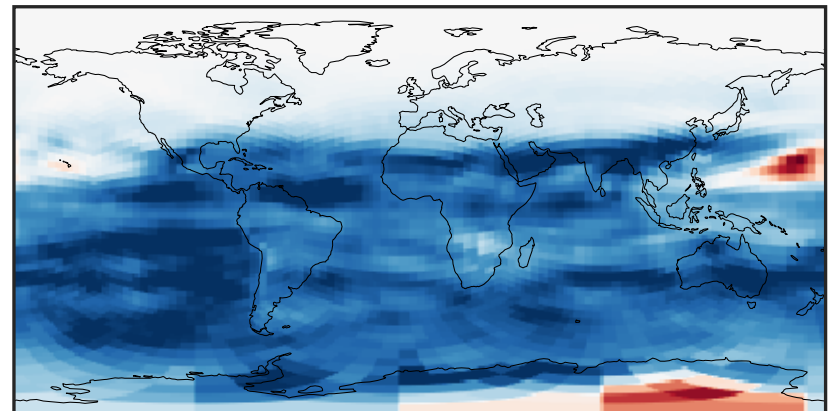
0.0 0.6 1.2 1.8
s-1 $1e-6$

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



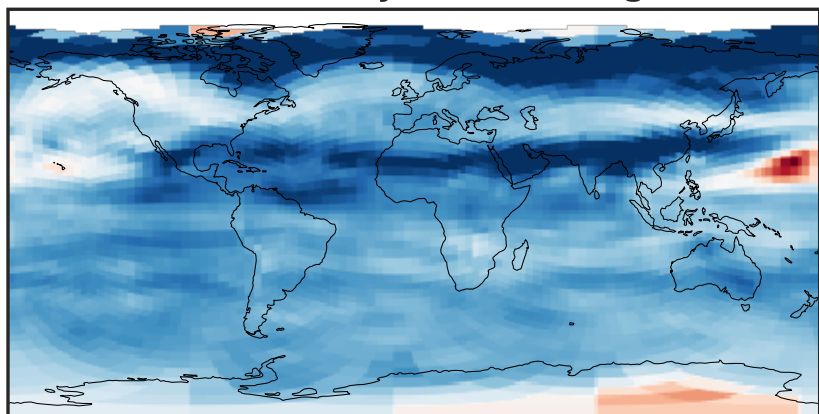
-1.5 0.0 1.5
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

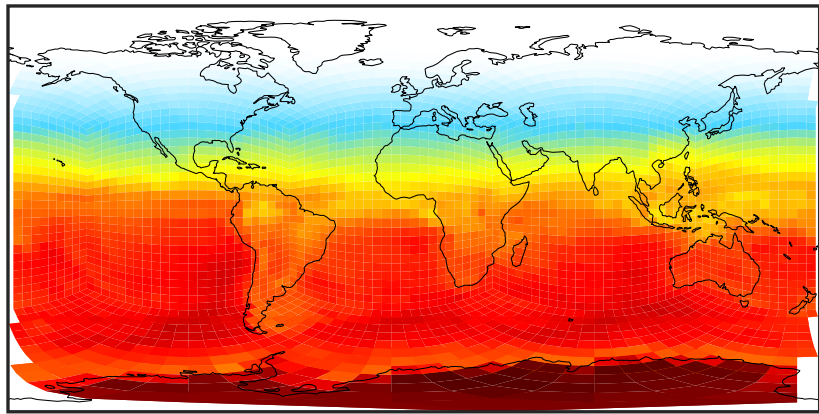
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

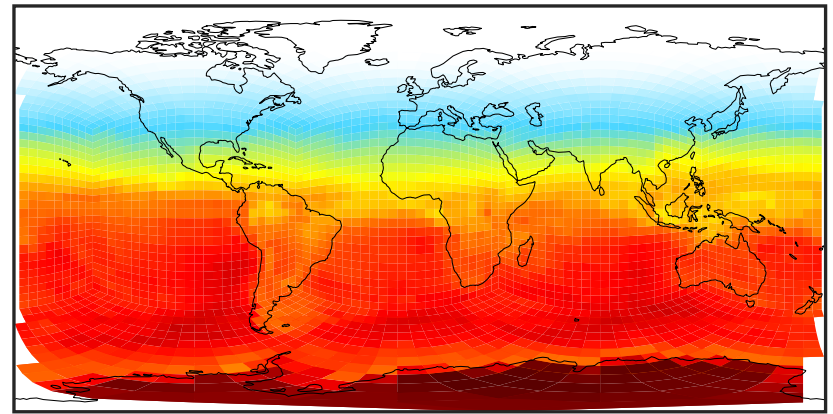
Jval_IHN2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



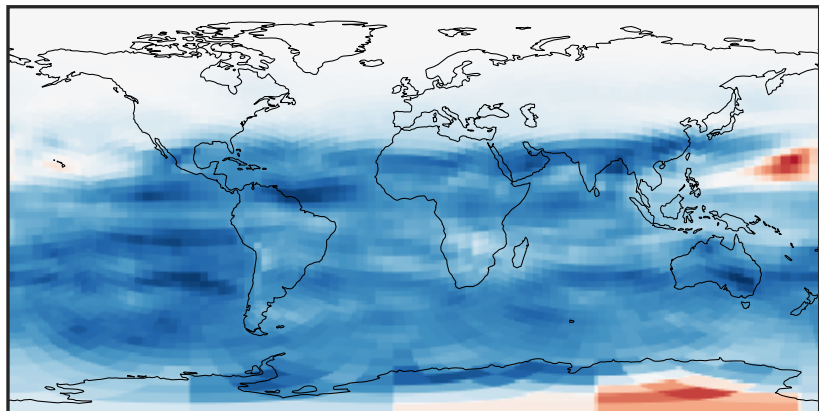
0.0 0.6 1.2 1.8
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



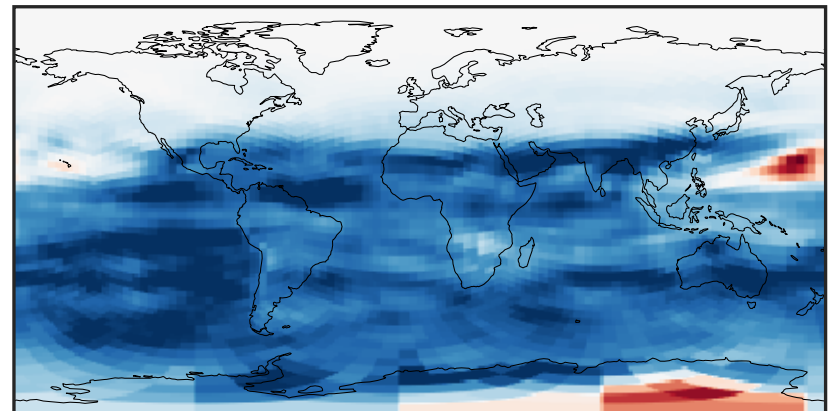
0.0 0.6 1.2 1.8
s-1 $1e-6$

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



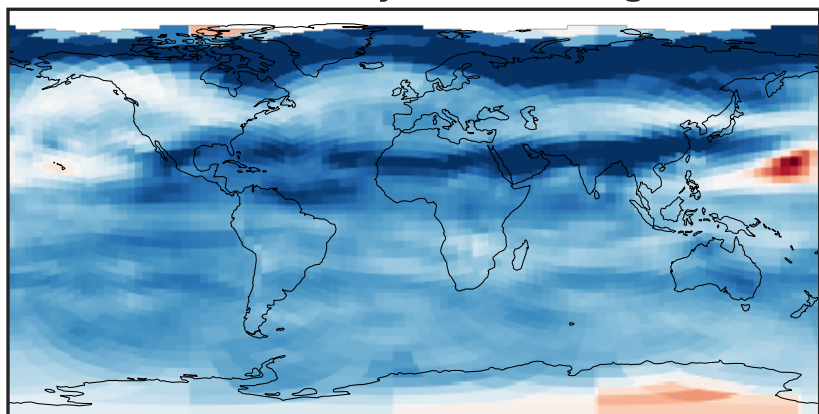
-1.5 0.0 1.5
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

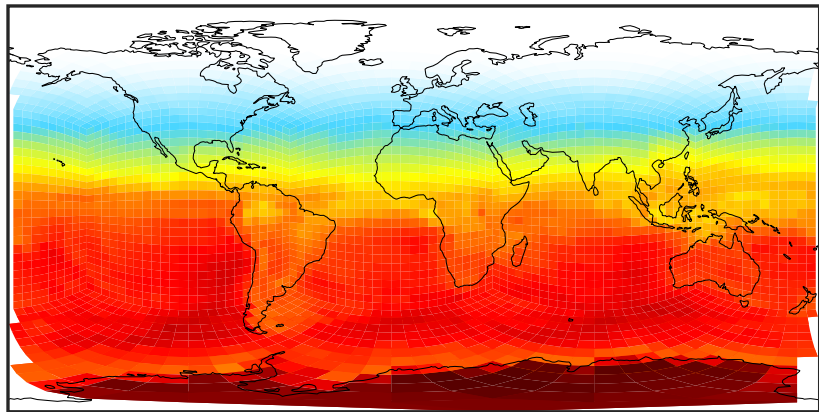
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

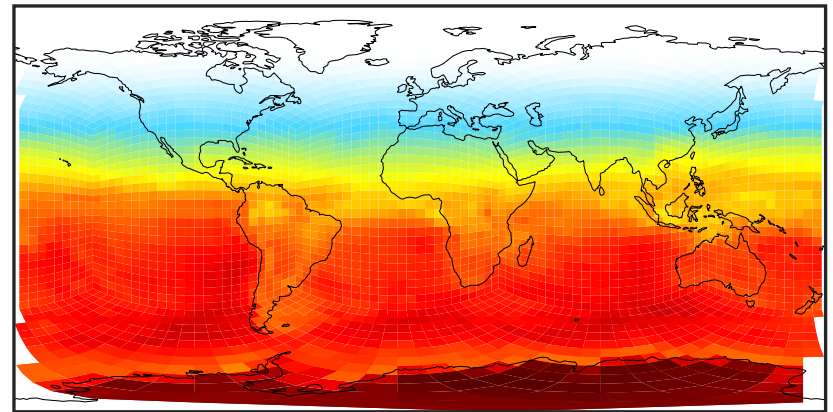
Jval_IHN3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



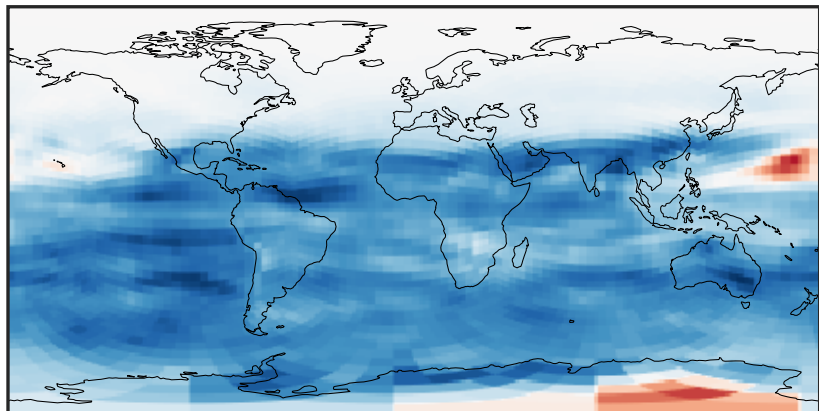
0.0 0.6 1.2 1.8
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



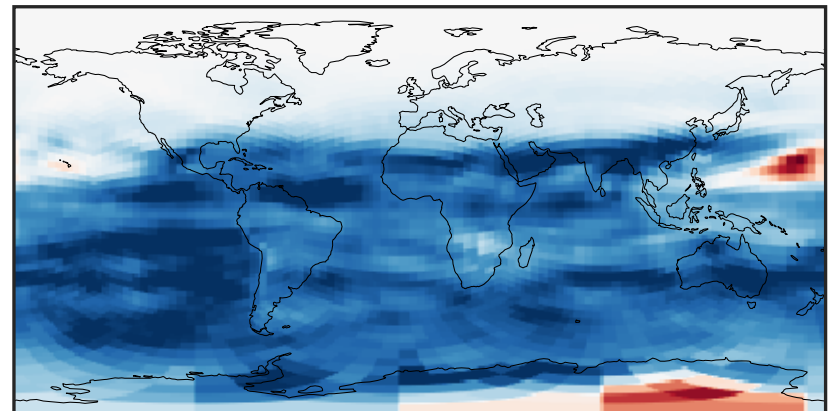
0.0 0.6 1.2 1.8
s-1 $1e-6$

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



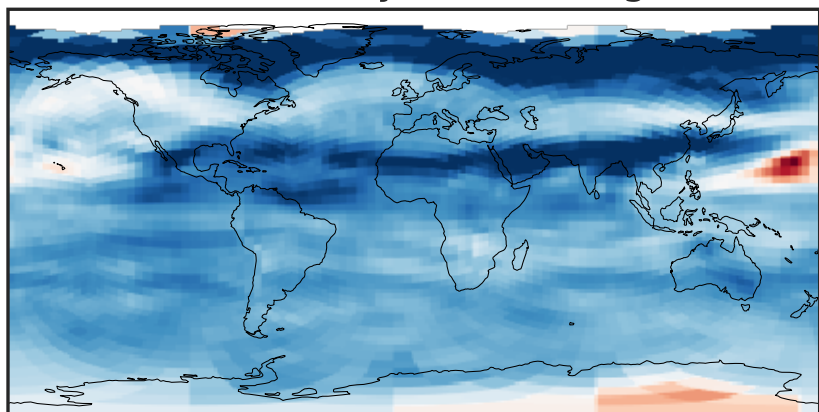
-1.5 0.0 1.5
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

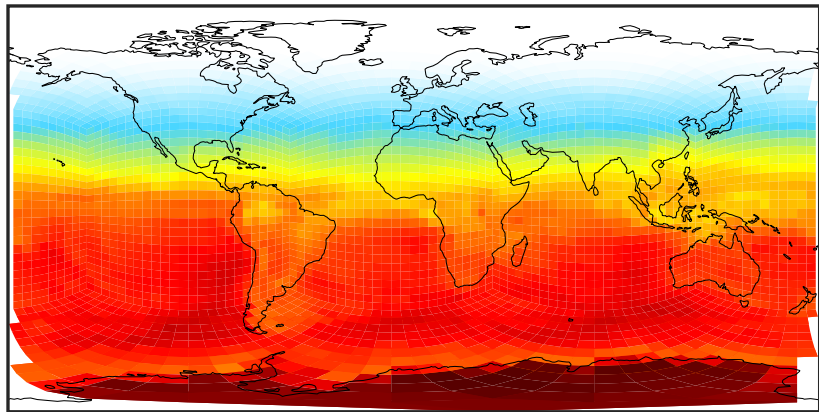
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

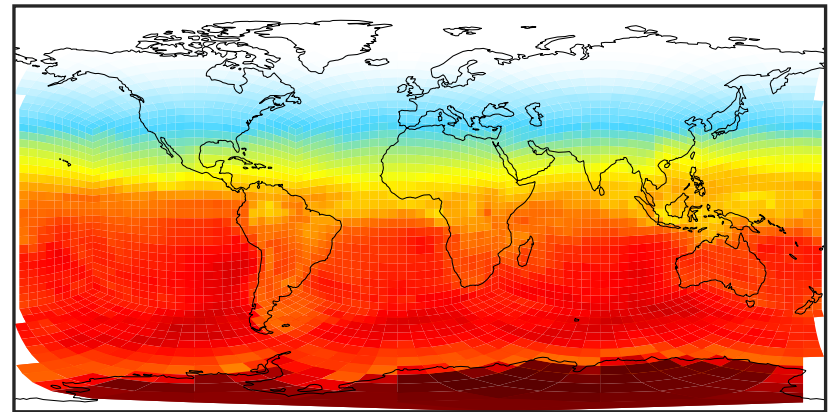
Jval_IHN4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



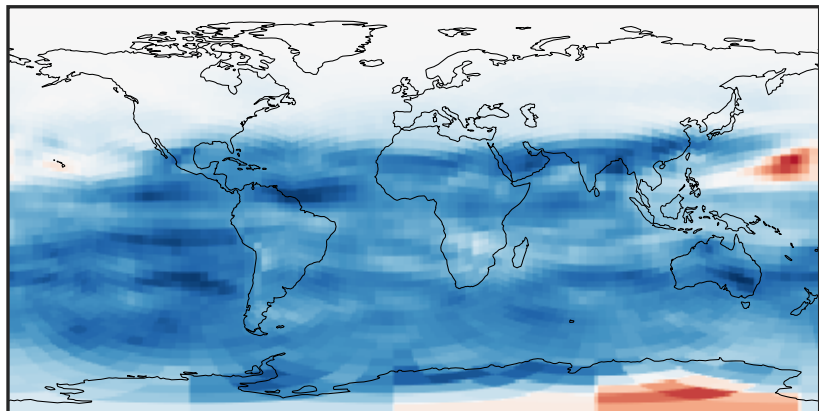
0.0 0.6 1.2 1.8 10^{-6} s-1

GCHP_14.2.0 (Dev)
c24



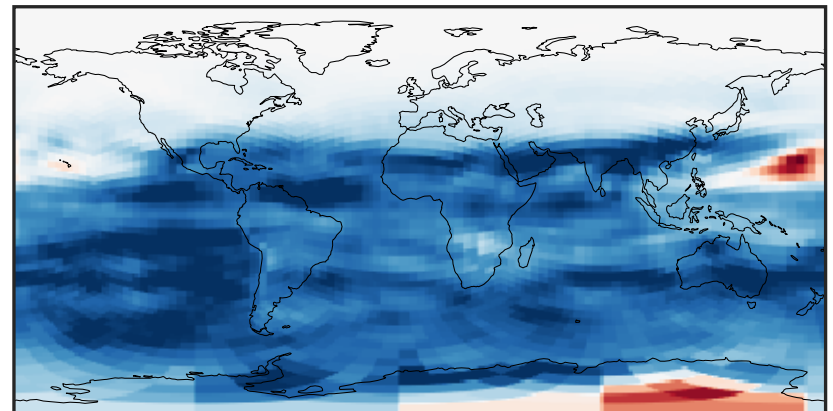
0.0 0.6 1.2 1.8 10^{-6} s-1

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



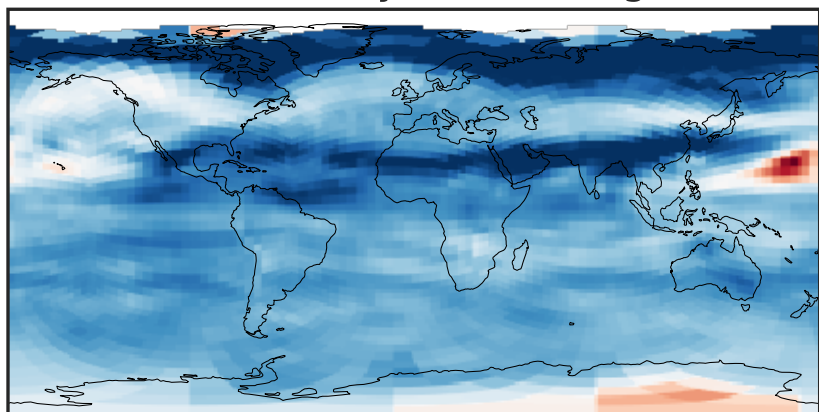
-1.5 0.0 1.5 10^{-8} s-1

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

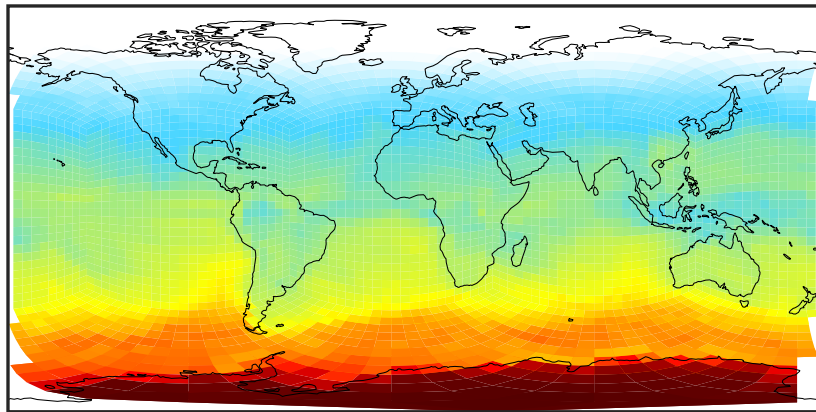
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

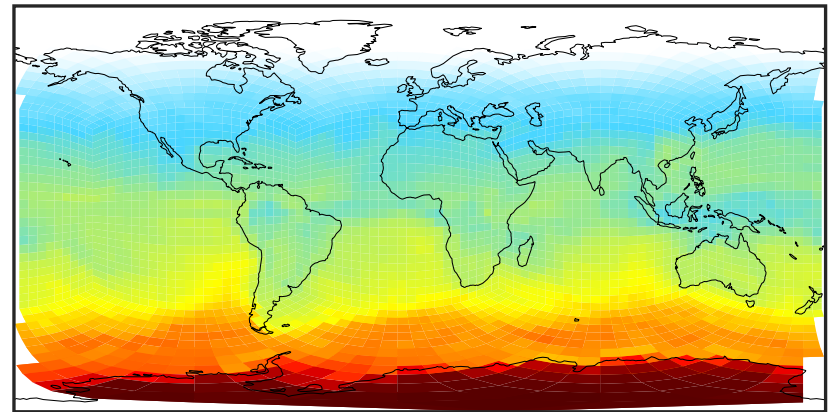
Jval_INO (Jan2019)

GCHP_14.0.0 (Ref)
c24



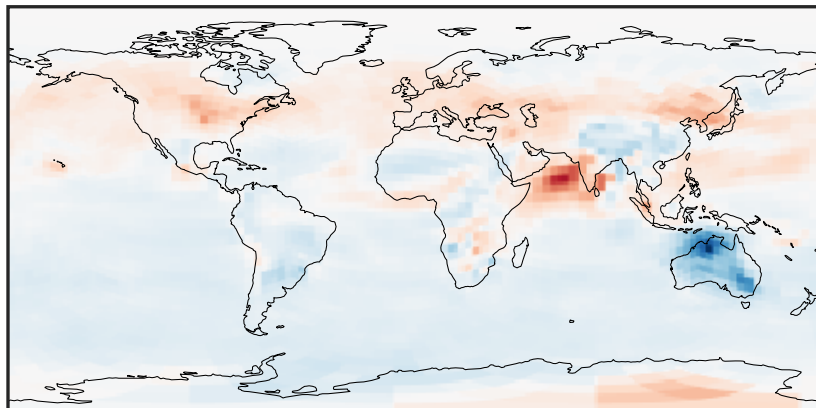
0.000 0.015 0.030 0.045
s-1

GCHP_14.2.0 (Dev)
c24



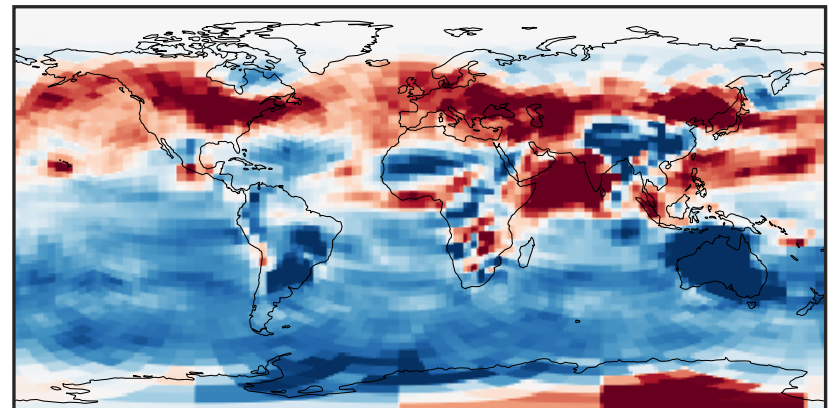
0.000 0.015 0.030 0.045
s-1

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



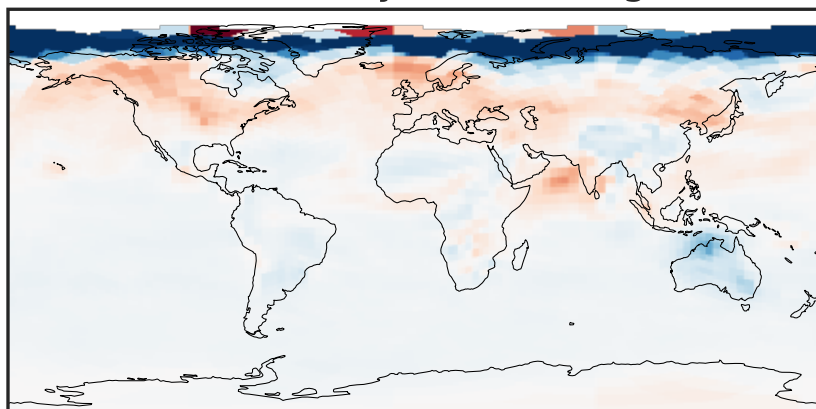
-5 0 5
s-1 $1e-5$

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



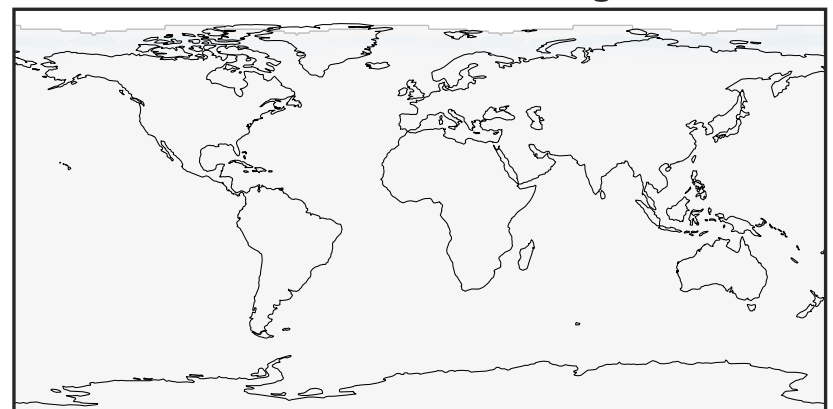
-1 0 1
s-1 $1e-5$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99033 0.99517 1.00000 1.00488 1.00976
unitless

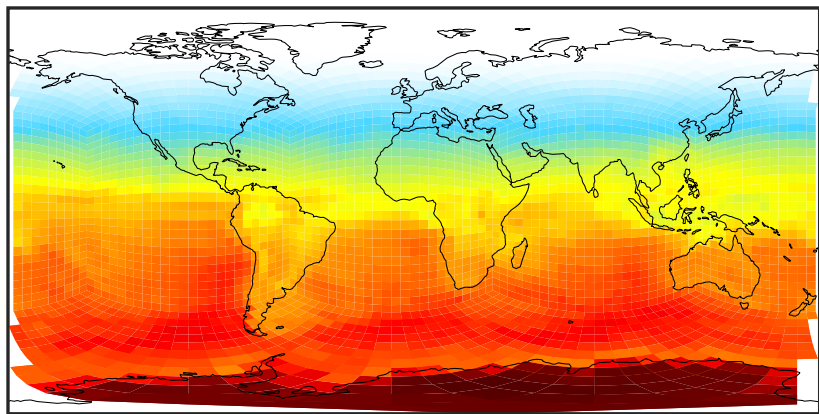
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

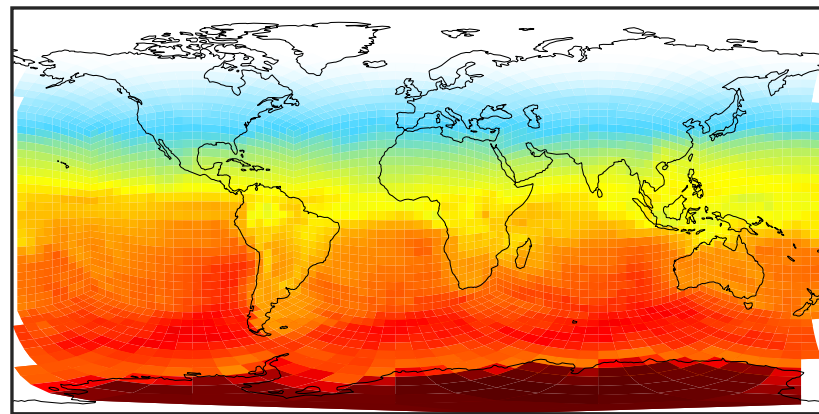
Jval_INPB (Jan2019)

GCHP_14.0.0 (Ref)
c24



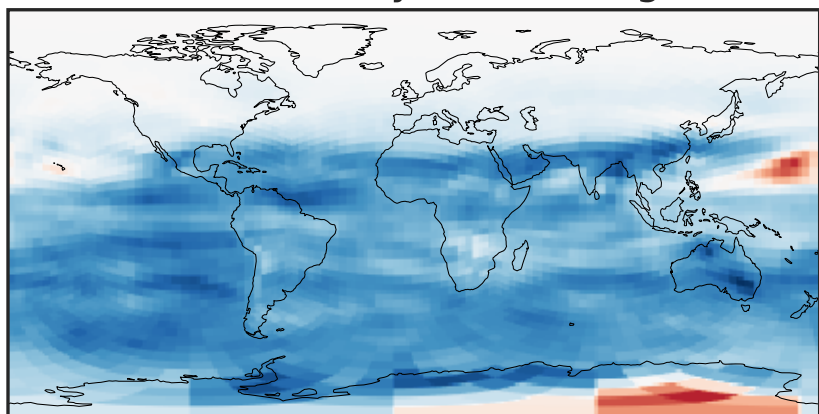
0.0 2.5 5.0 7.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



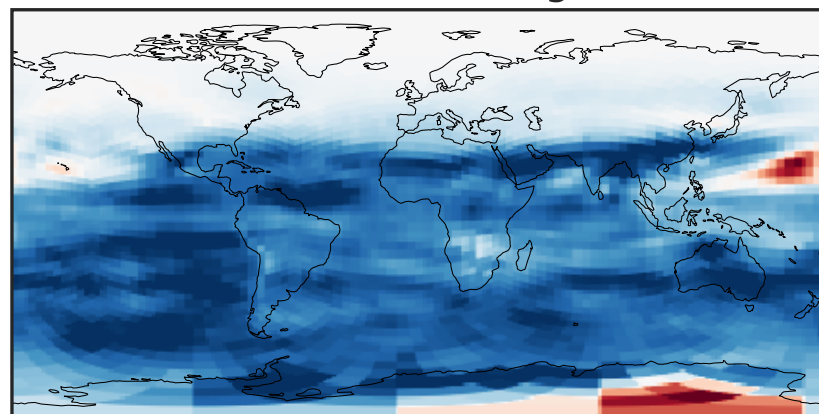
0.0 2.5 5.0 7.5
s-1 $1e-6$

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



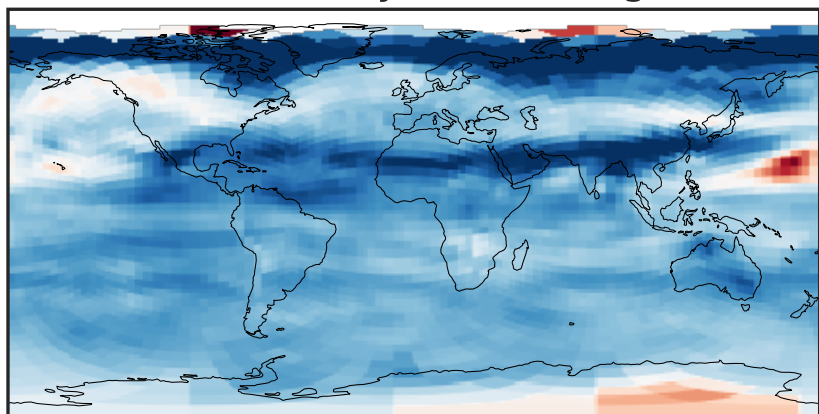
-3 0 3
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98962 0.99481 1.00000 1.00525 1.01049
unitless

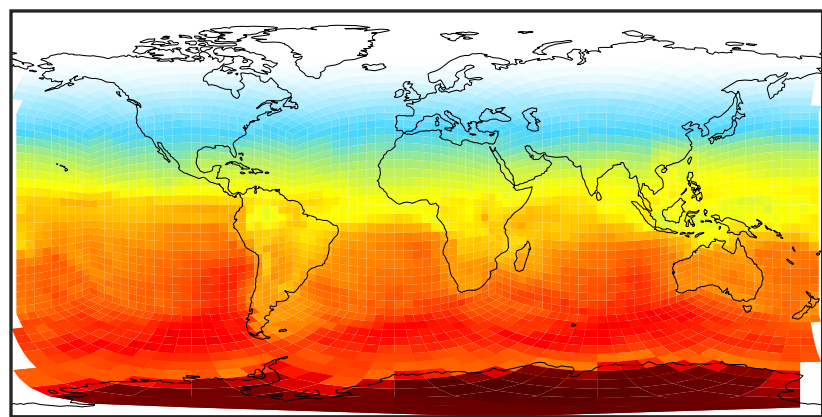
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

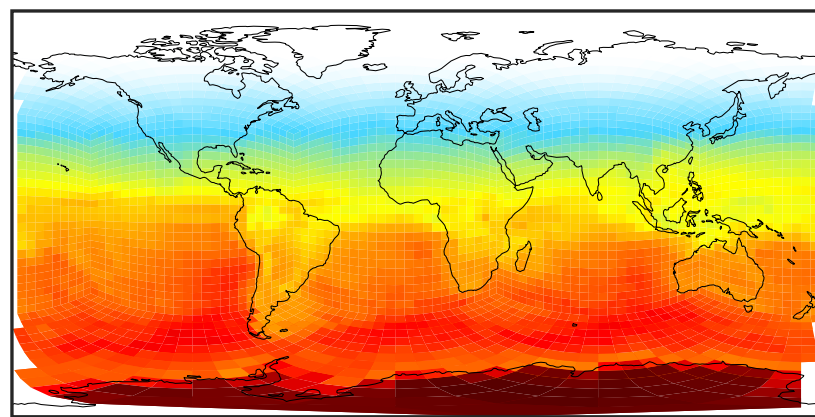
Jval_INPD (Jan2019)

GCHP_14.0.0 (Ref)
c24



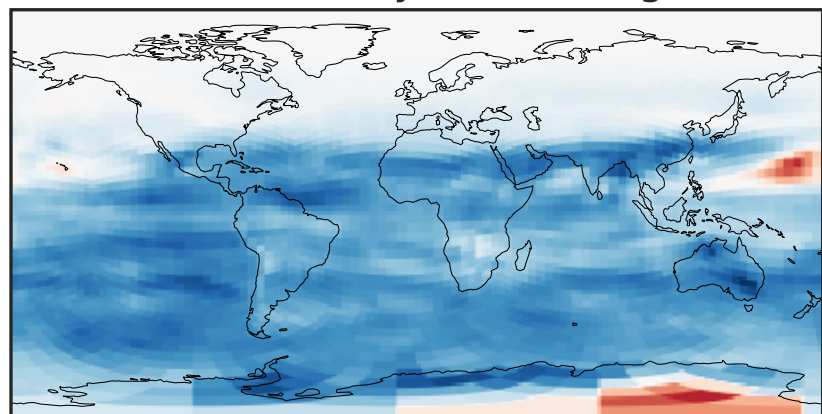
0.0 2.5 5.0 7.5
s-1 $1e-6$

GCHP_14.2.0 (Dev)
c24



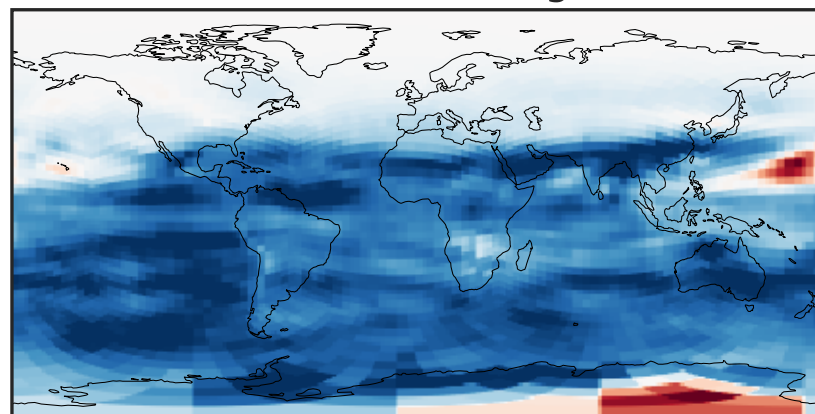
0.0 2.5 5.0 7.5
s-1 $1e-6$

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



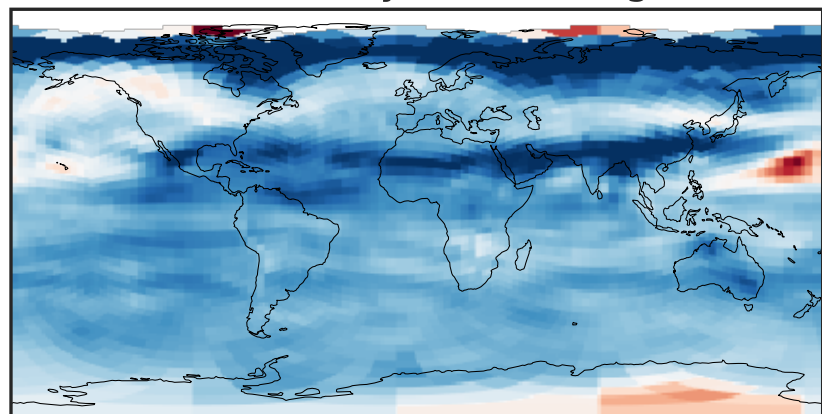
-3 0 3
s-1 $1e-8$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98962 0.99481 1.00000 1.00525 1.01049
unitless

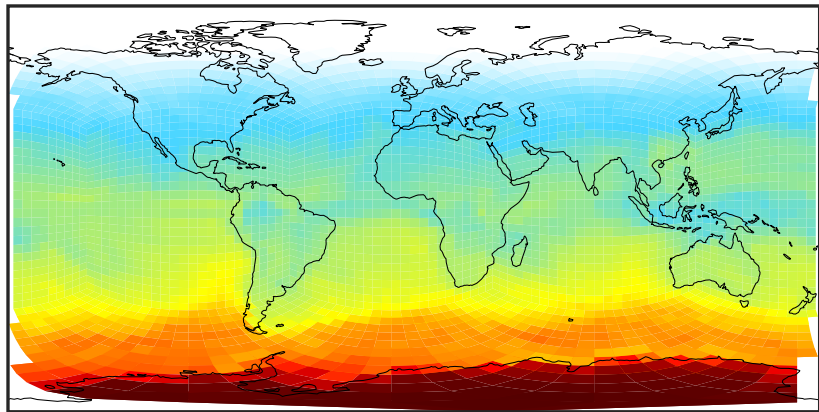
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

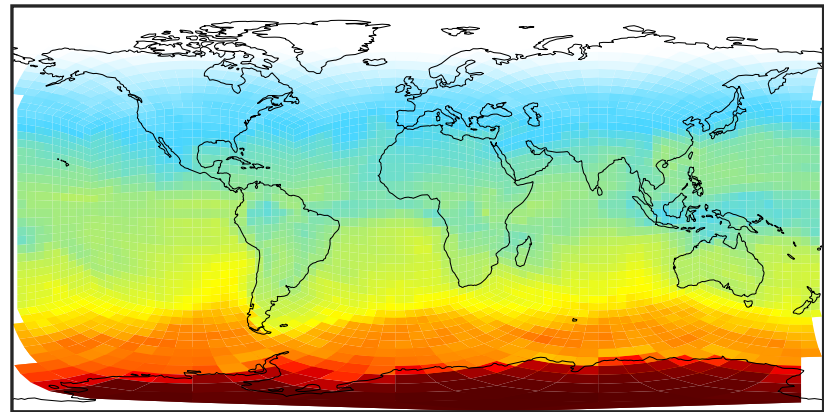
Jval_IO (Jan2019)

GCHP_14.0.0 (Ref)
c24



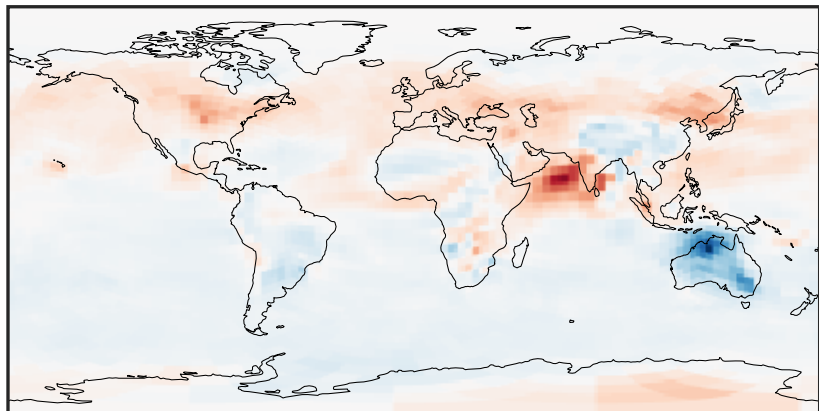
0.0000 0.0774 0.1549 0.2323 0.3098
s-1

GCHP_14.2.0 (Dev)
c24



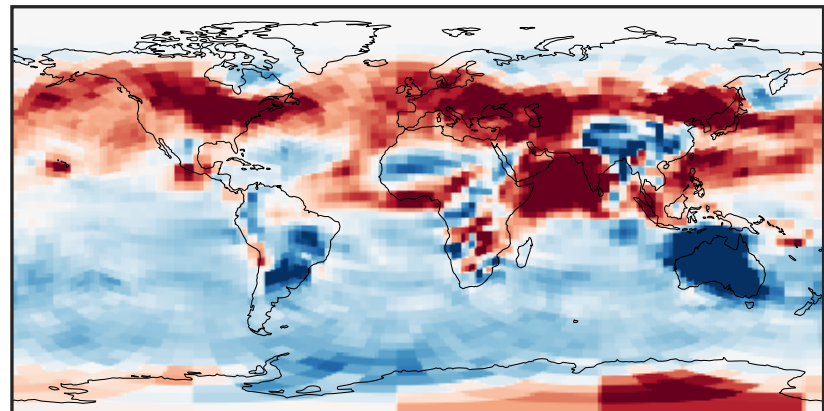
0.0000 0.0774 0.1549 0.2323 0.3098
s-1

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



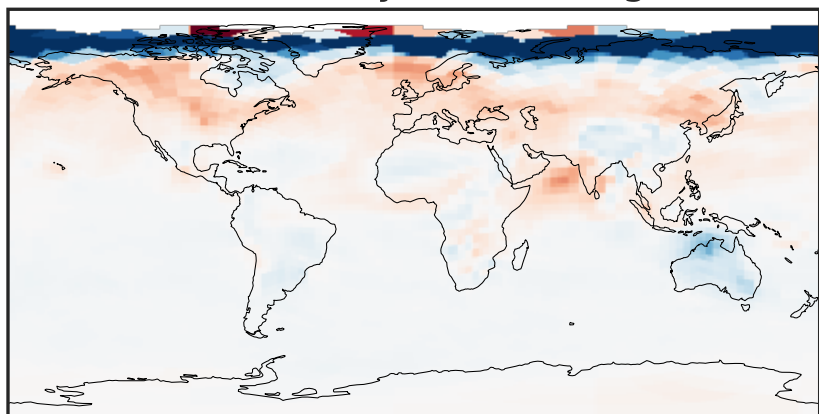
-0.0003 0.0000 0.0003
s-1

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



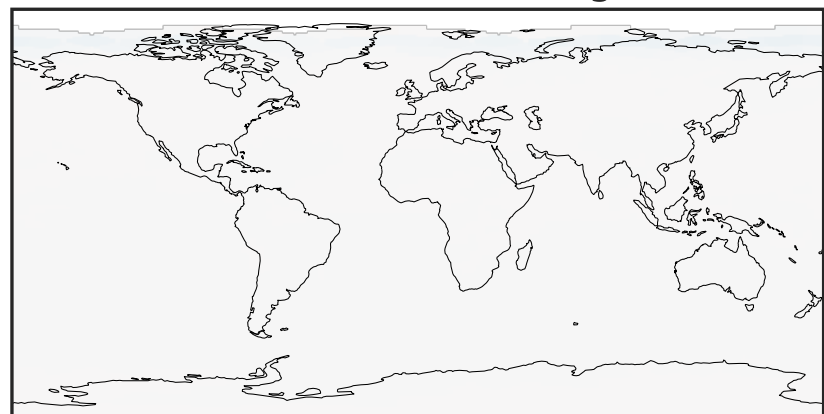
-6 0 6
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99005 0.99503 1.00000 1.00502 1.01005
unitless

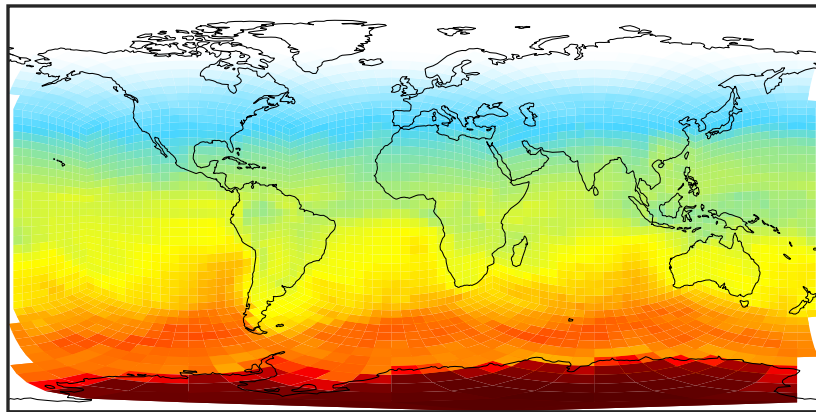
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

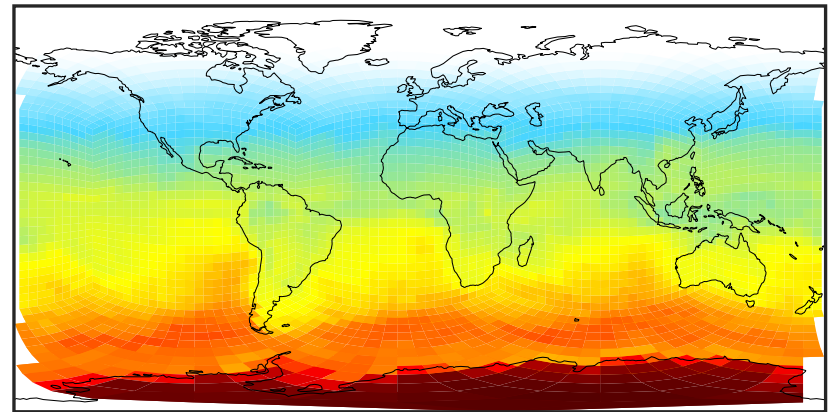
Jval_IONO (Jan2019)

GCHP_14.0.0 (Ref)
c24



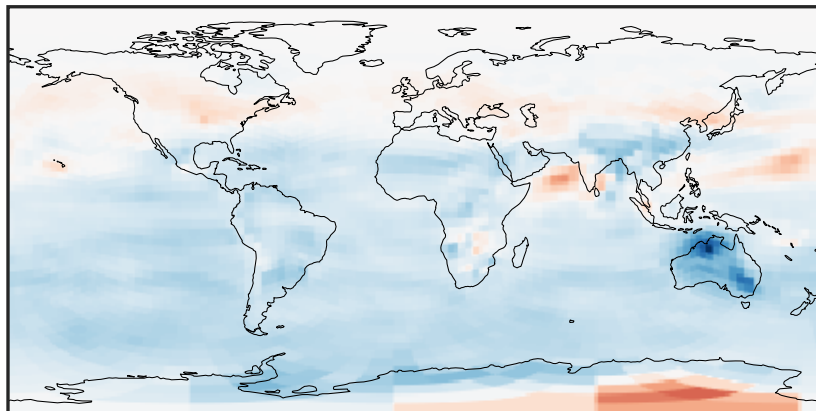
0.0000 0.0015 0.0030
s-1

GCHP_14.2.0 (Dev)
c24



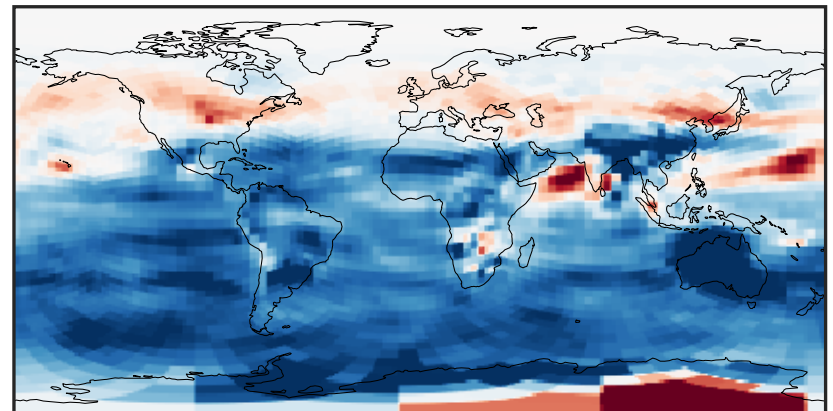
0.0000 0.0015 0.0030
s-1

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



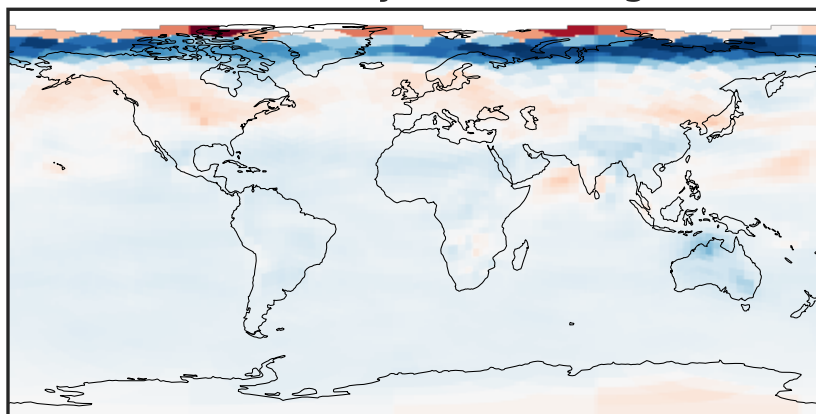
-6 0 6
s-1 1e-6

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



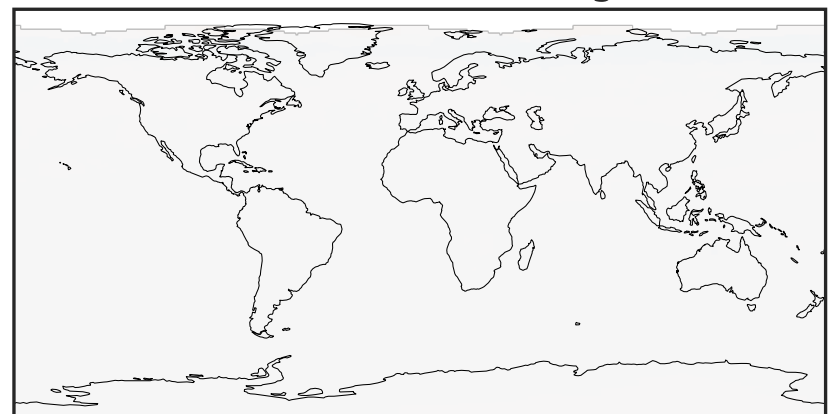
-2 0 2
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98677 0.99339 1.00000 1.00670 1.01341
unitless

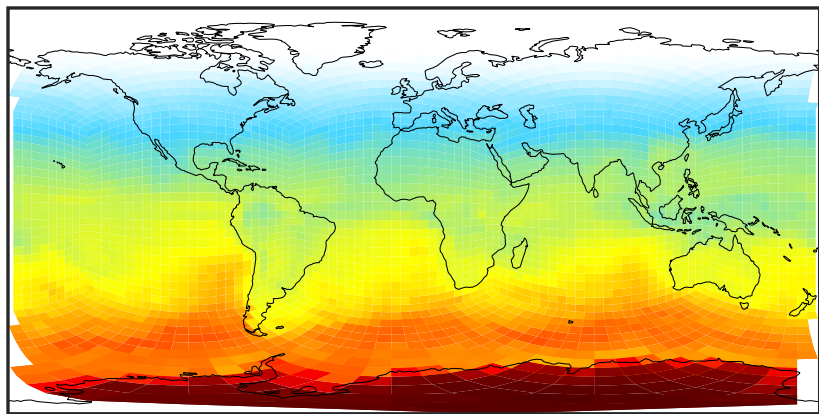
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

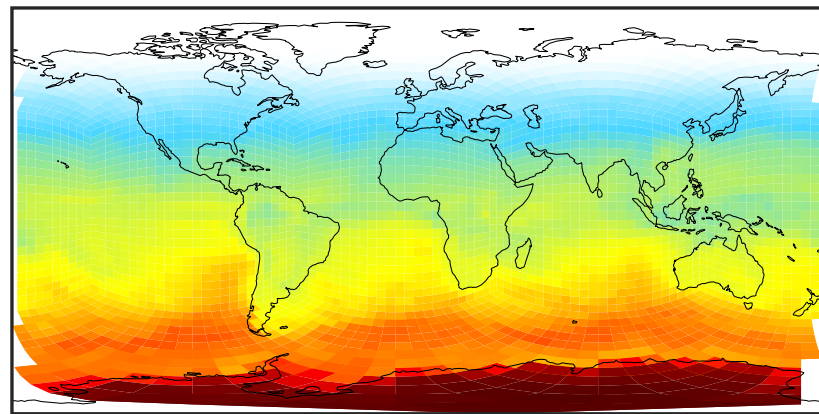
Jval_IONO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



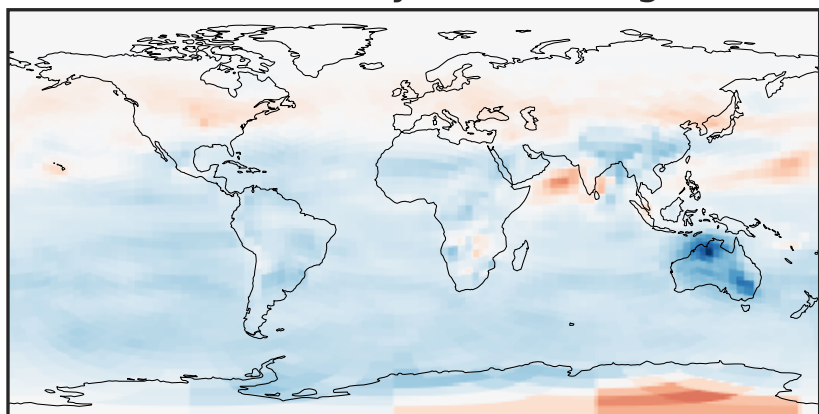
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



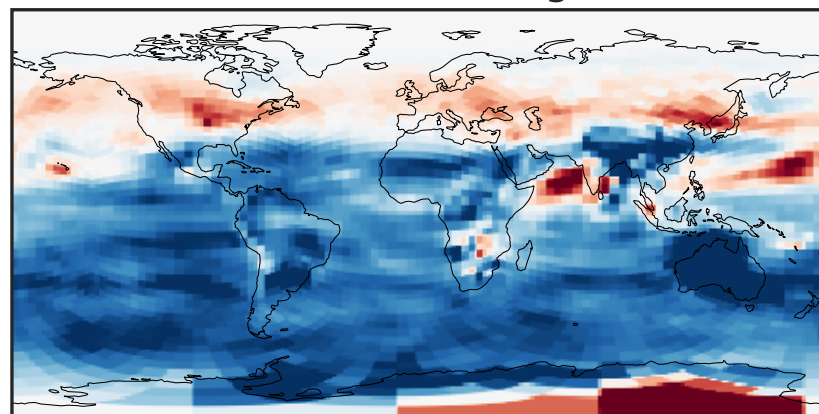
0.000 0.004 0.008 0.012
s-1

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



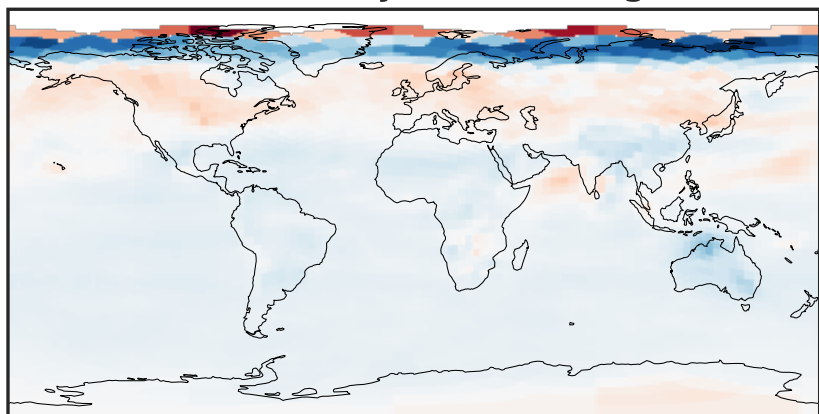
-2 0 2
s-1 1e-5

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



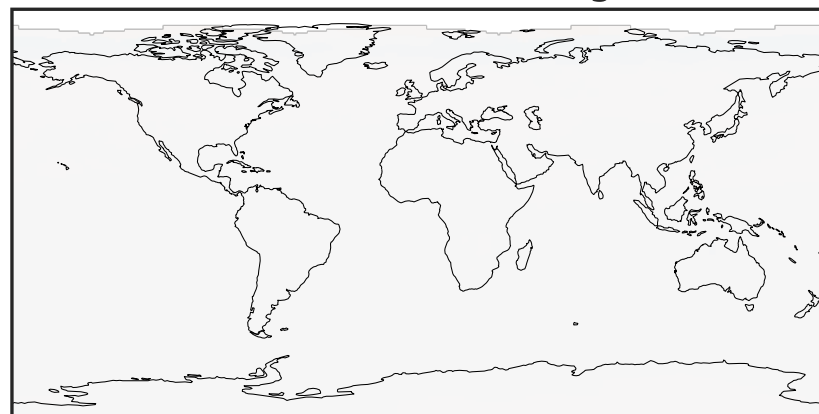
-6 0 6
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98632 0.99316 1.00000 1.00694 1.01387
unitless

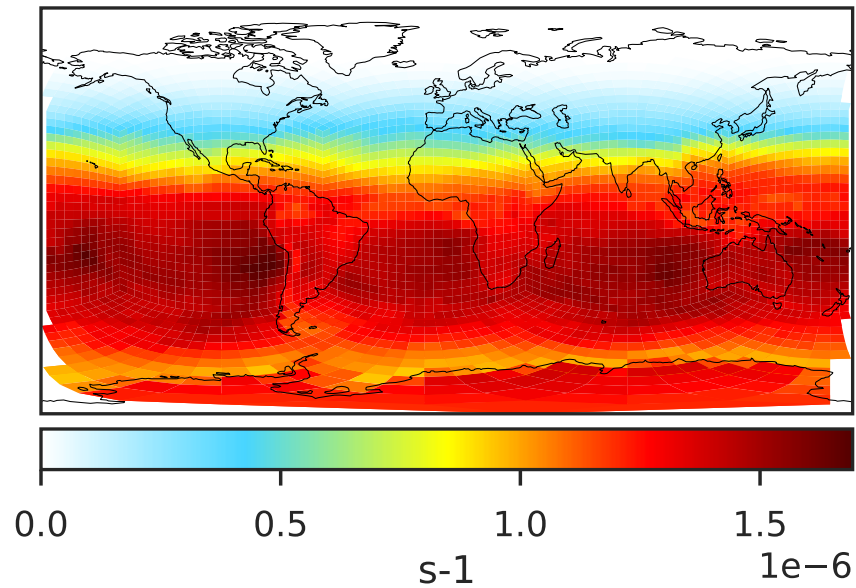
Ratio (1x1.25)
Dev/Ref, Fixed Range



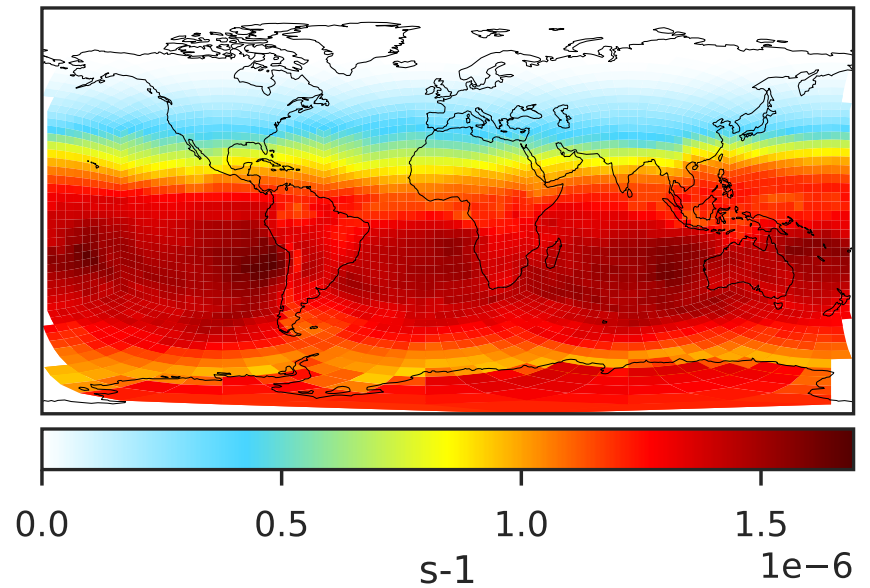
0.50 0.75 1.00 1.50 2.00
unitless

Jval_IPRNO3 (Jan2019)

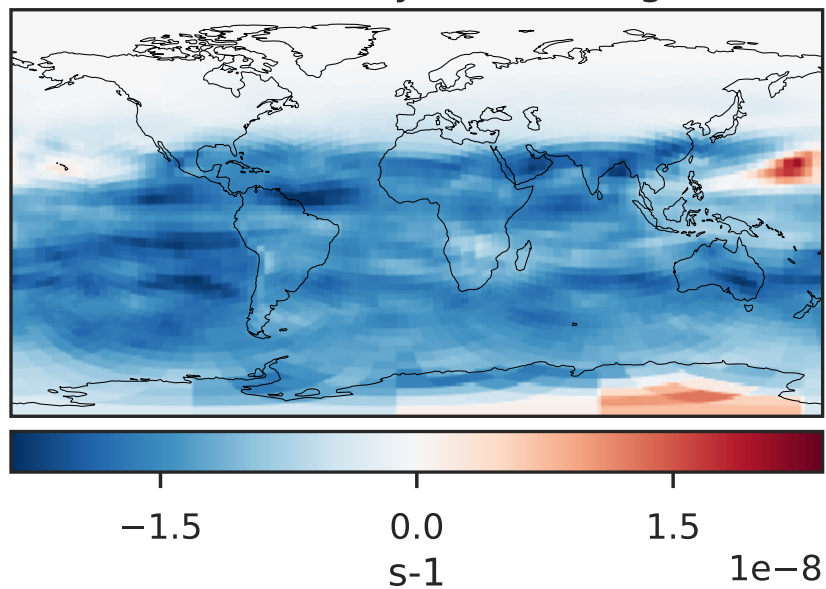
GCHP_14.0.0 (Ref)
c24



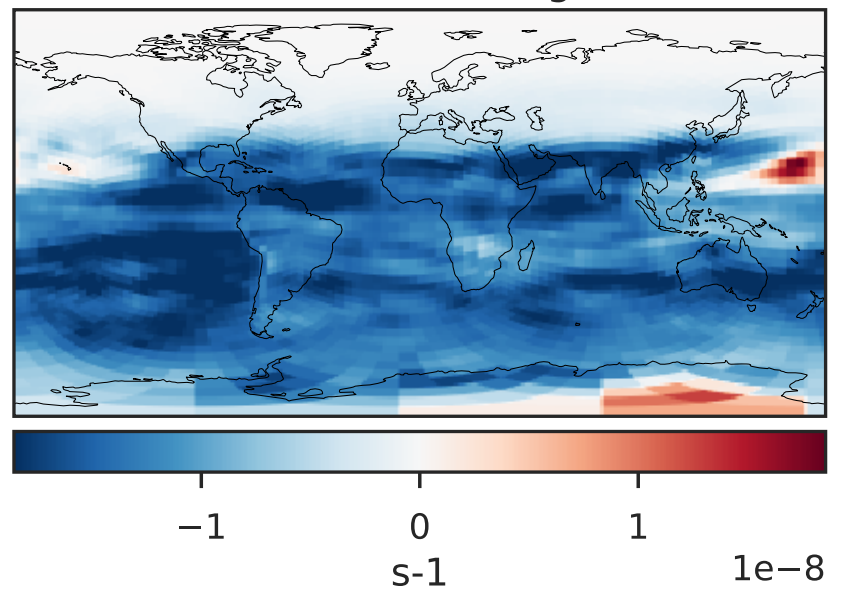
GCHP_14.2.0 (Dev)
c24



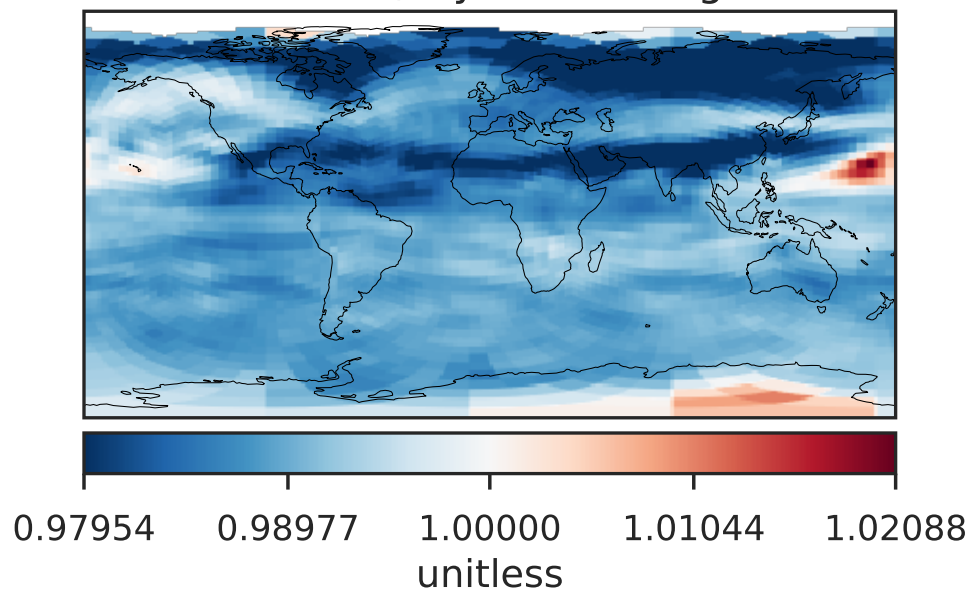
Difference (1x1.25)
Dev - Ref, Dynamic Range



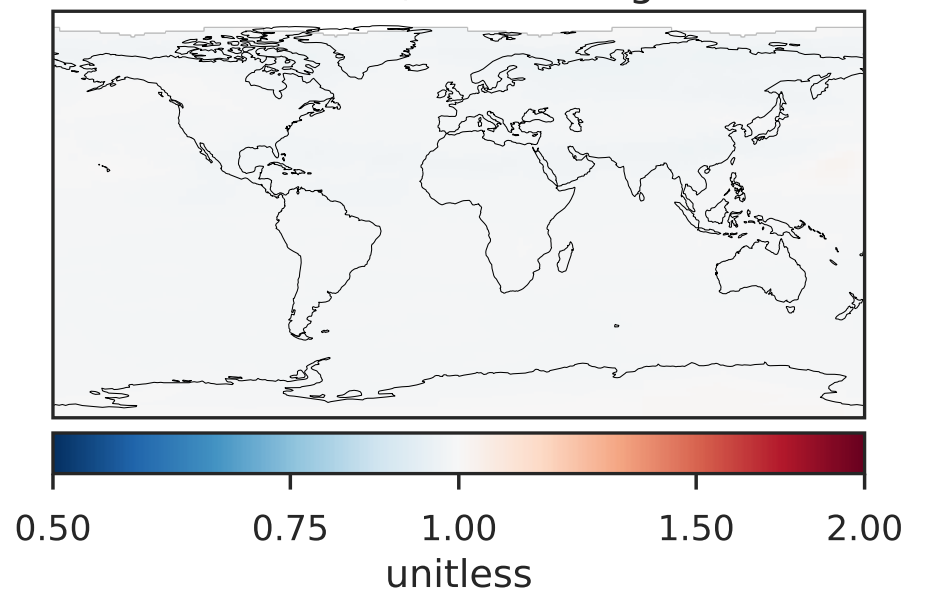
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

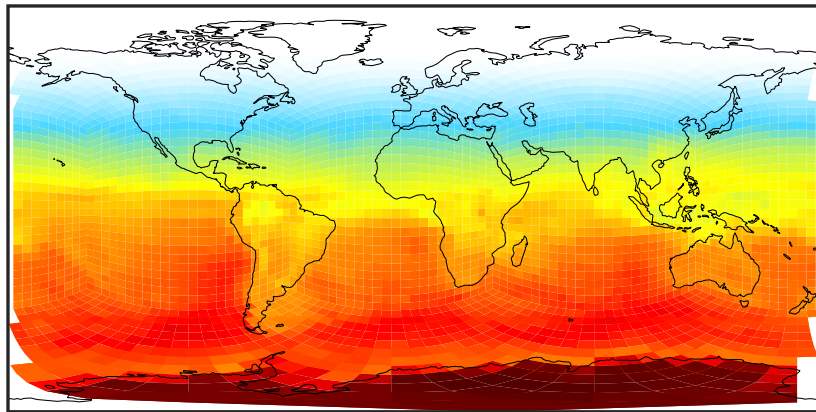


Ratio (1x1.25)
Dev/Ref, Fixed Range



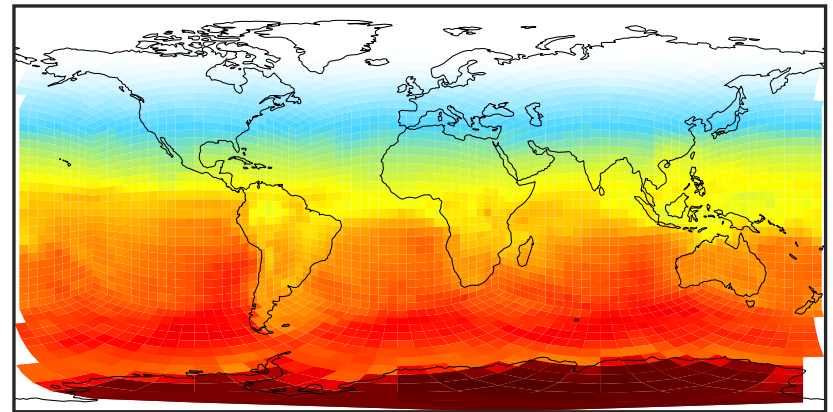
Jval_ITCN (Jan2019)

GCHP_14.0.0 (Ref)
c24



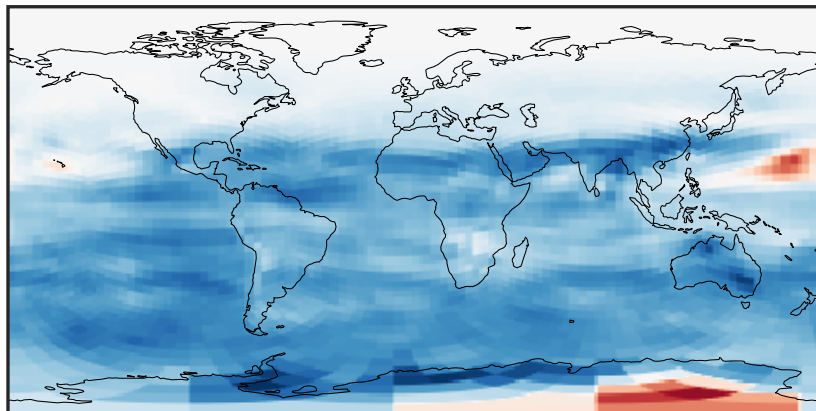
0.00000 0.00004 0.00008 0.00012
s-1

GCHP_14.2.0 (Dev)
c24



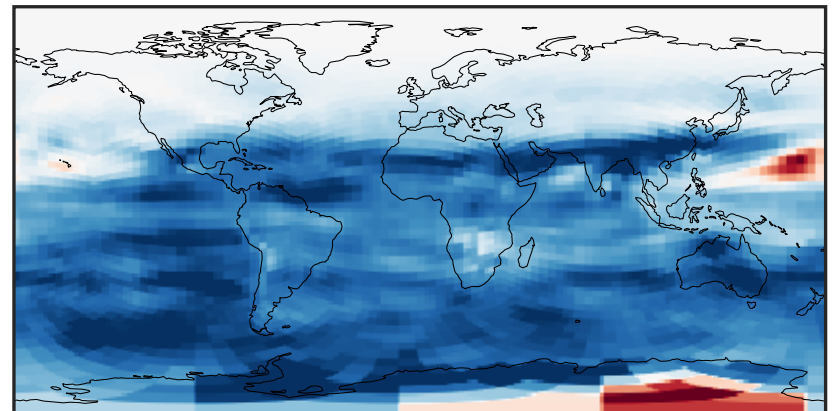
0.00000 0.00004 0.00008 0.00012
s-1

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



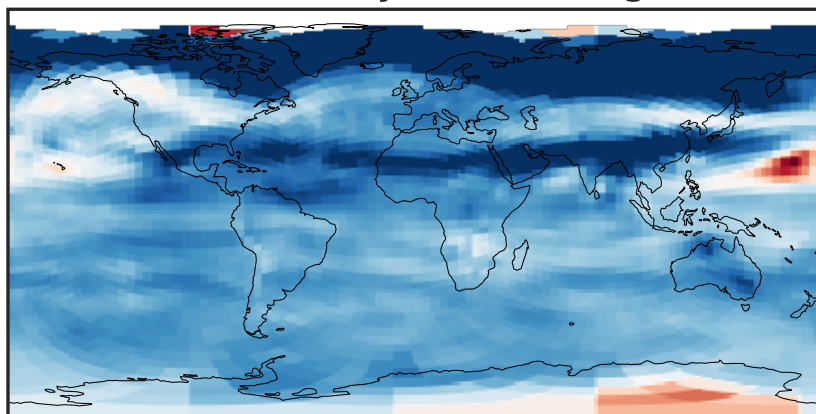
-4 0 4
s-1 1e-7

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



-3 0 3
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99119 0.99560 1.00000 1.00444 1.00889
unitless

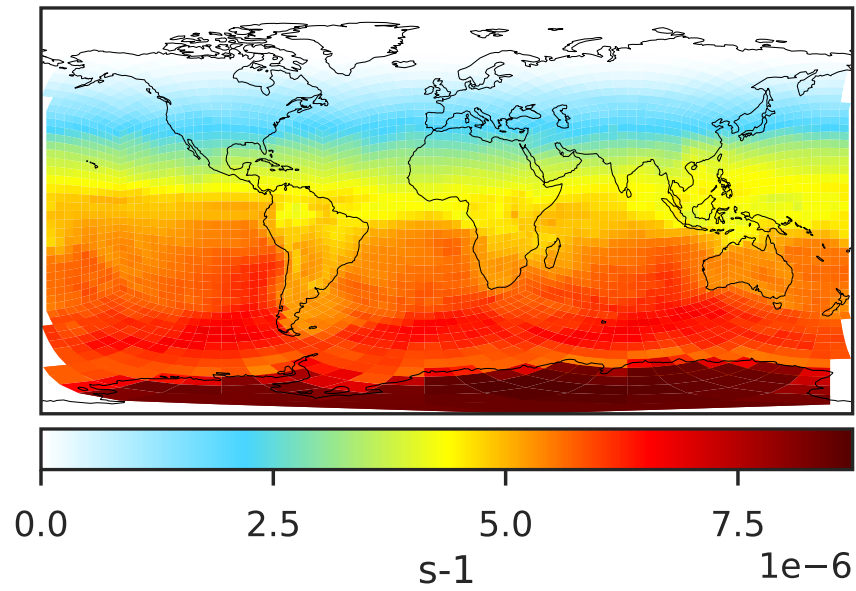
Ratio (1x1.25)
Dev/Ref, Fixed Range



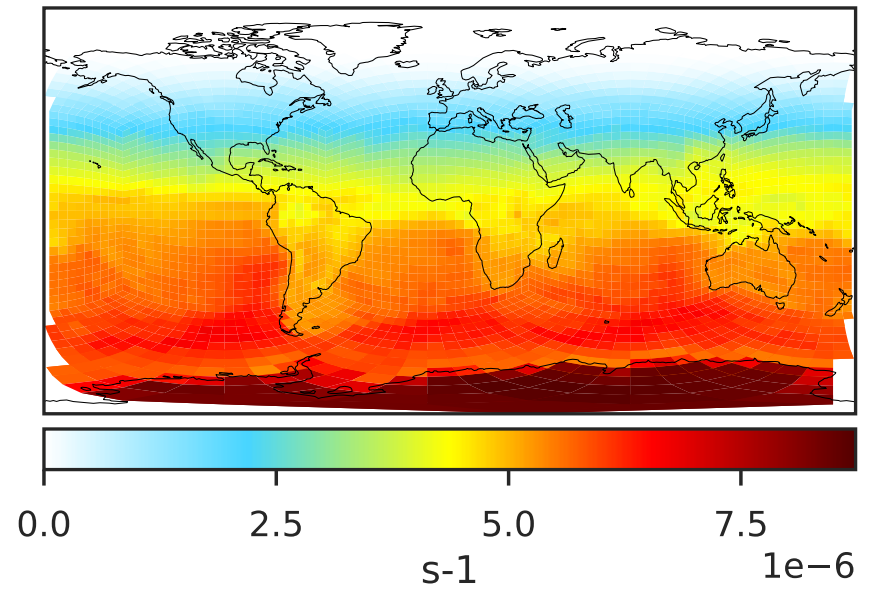
0.50 0.75 1.00 1.50 2.00
unitless

Jval_ITHN (Jan2019)

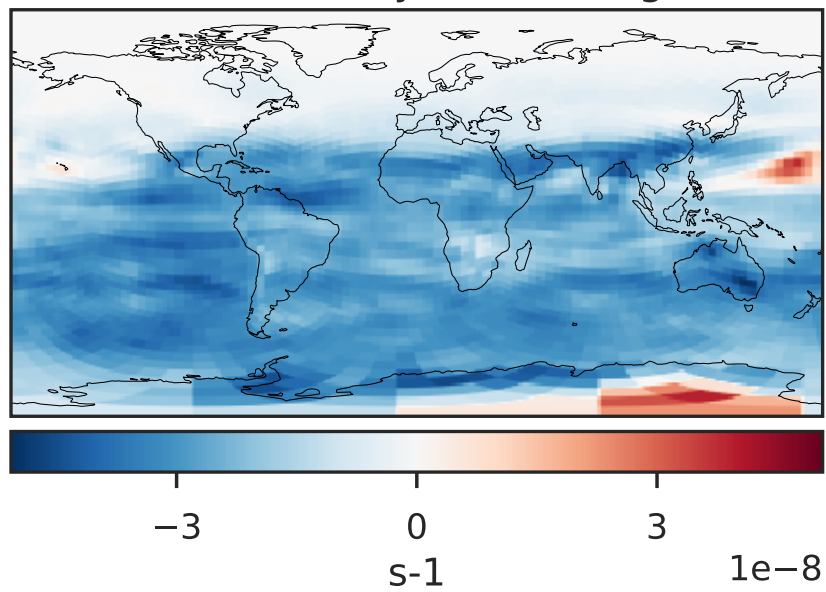
GCHP_14.0.0 (Ref)
c24



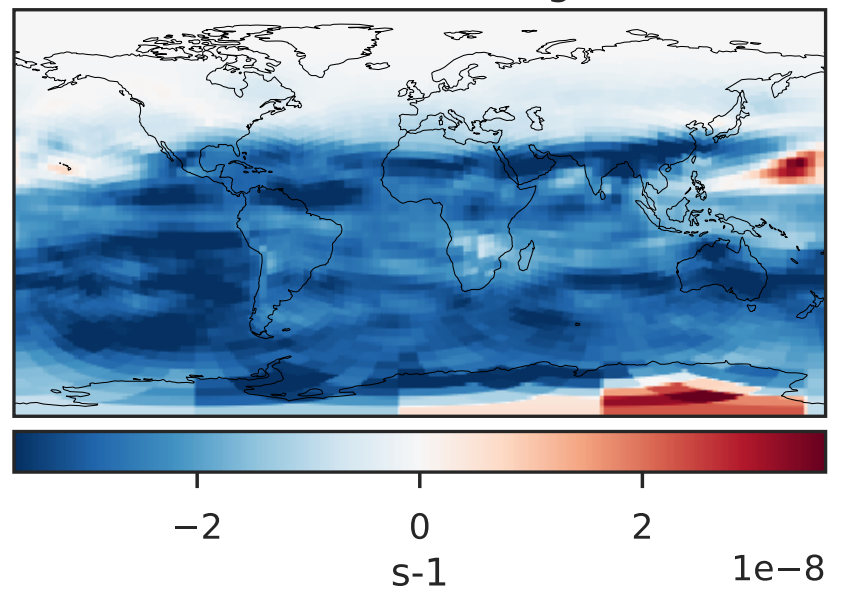
GCHP_14.2.0 (Dev)
c24



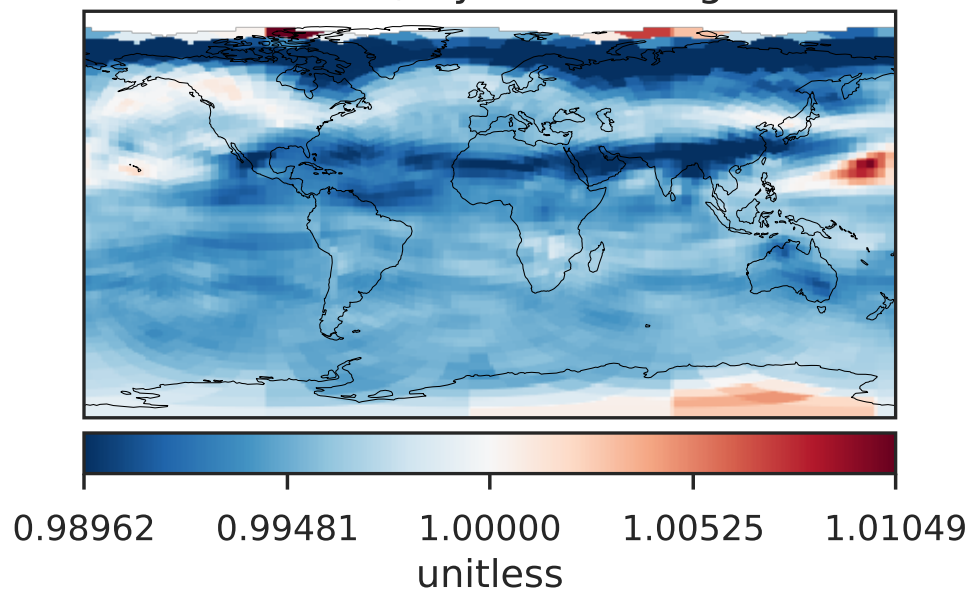
Difference (1x1.25)
Dev - Ref, Dynamic Range



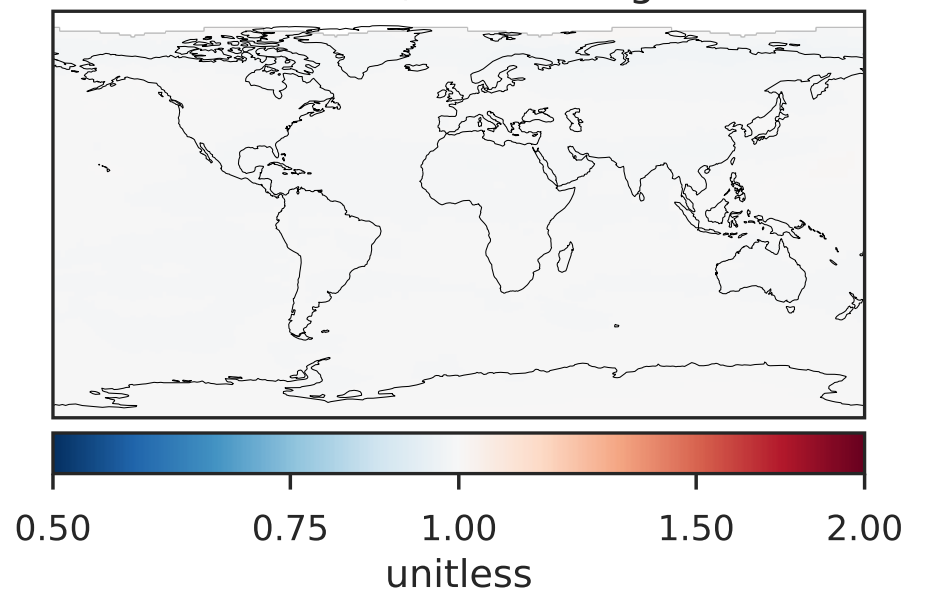
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

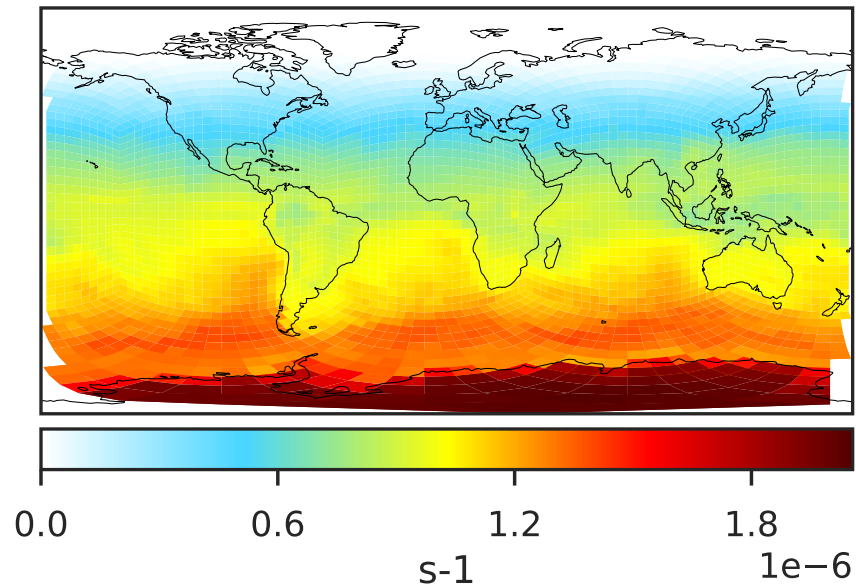


Ratio (1x1.25)
Dev/Ref, Fixed Range

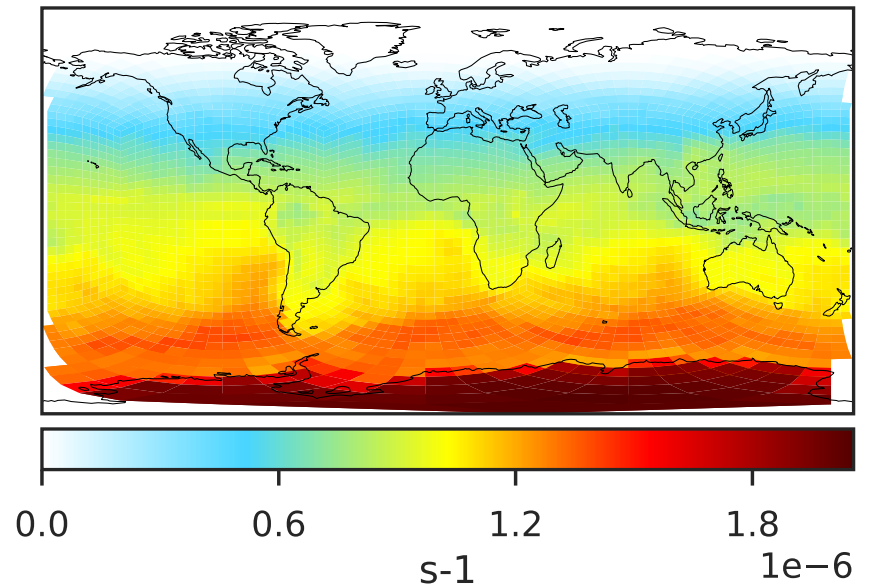


Jval_MACR (Jan2019)

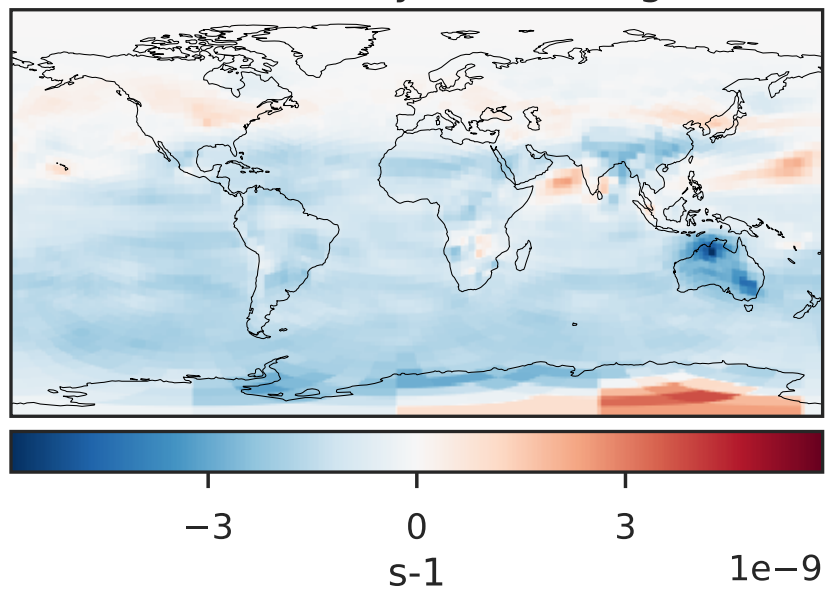
GCHP_14.0.0 (Ref)
c24



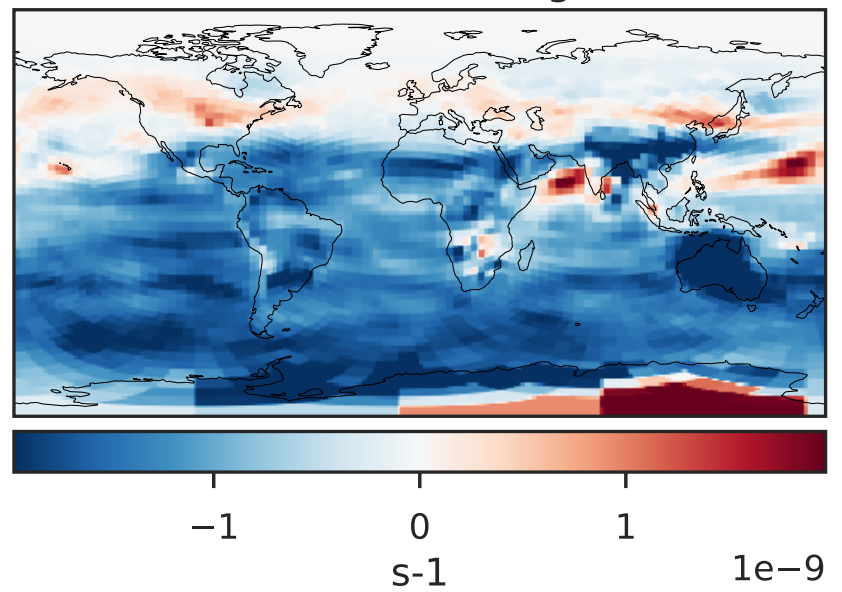
GCHP_14.2.0 (Dev)
c24



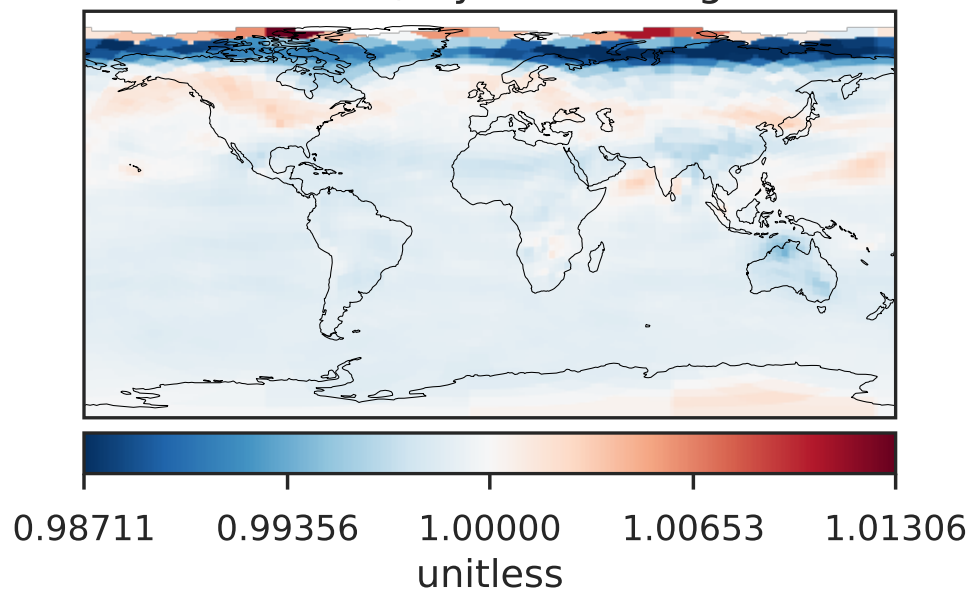
Difference (1x1.25)
Dev - Ref, Dynamic Range



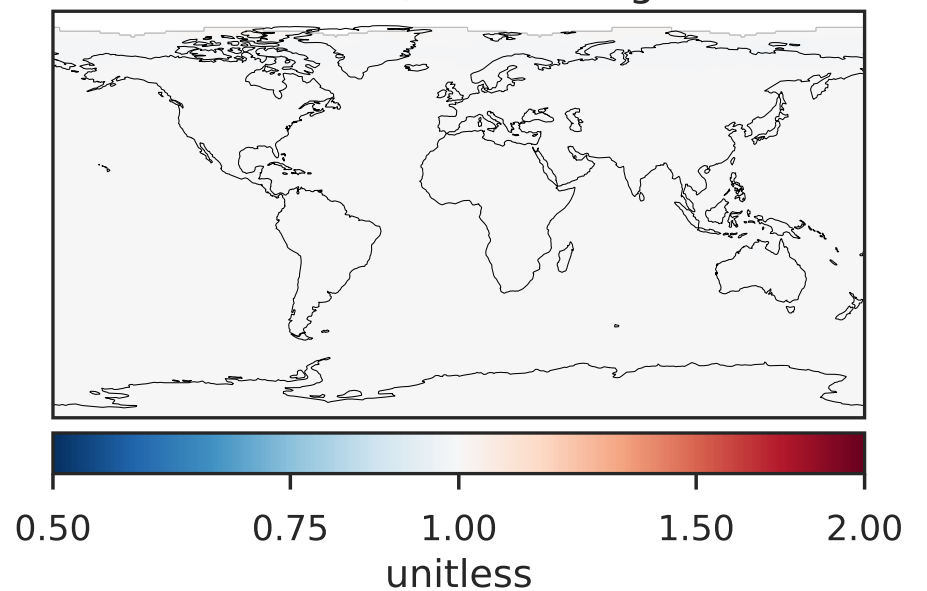
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

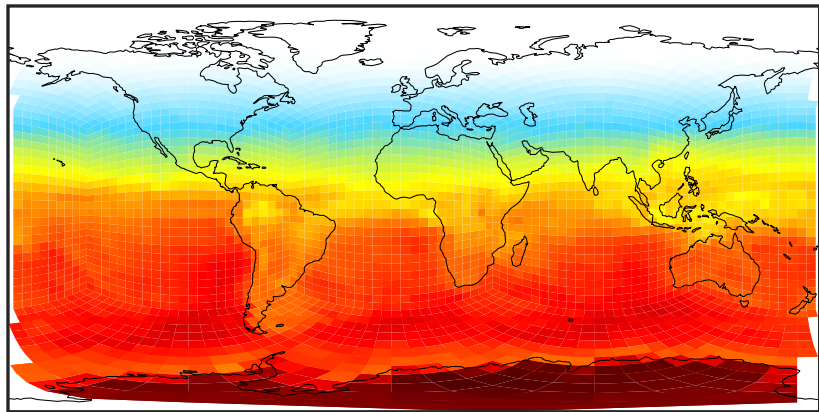


Ratio (1x1.25)
Dev/Ref, Fixed Range



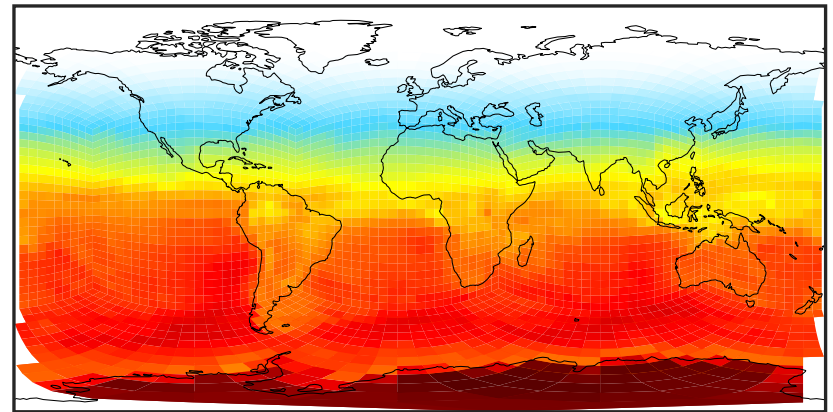
Jval_MACR100H (Jan2019)

GCHP_14.0.0 (Ref)
c24



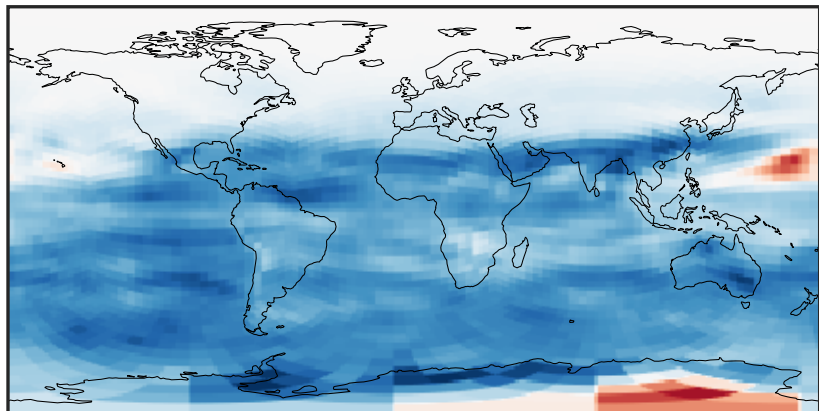
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



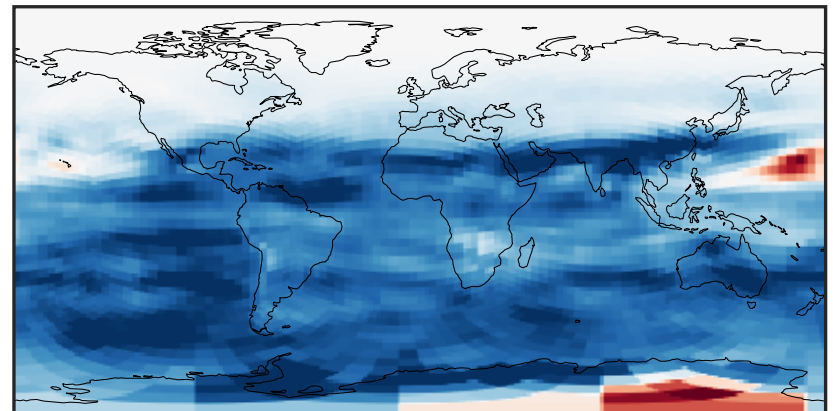
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



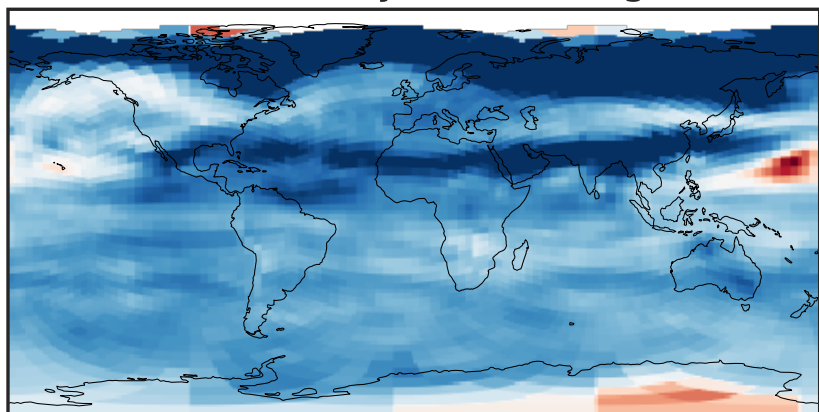
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

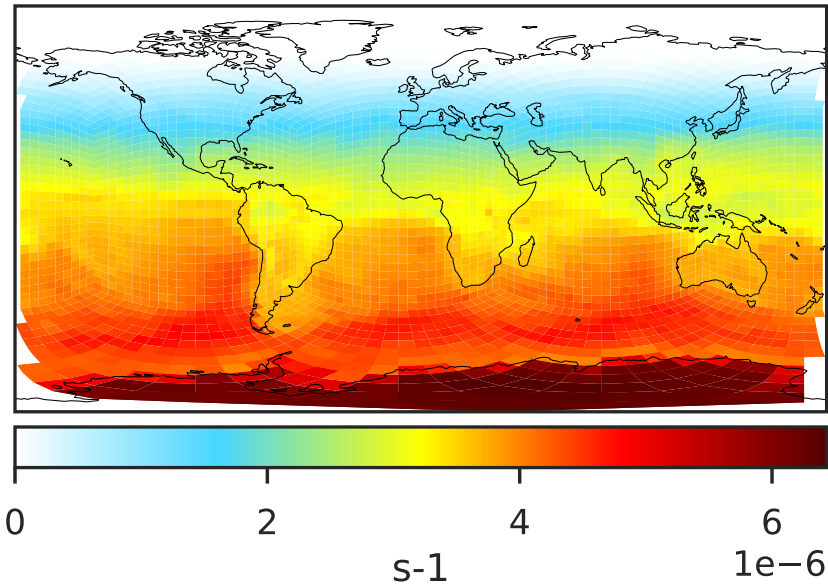
Ratio (1x1.25)
Dev/Ref, Fixed Range



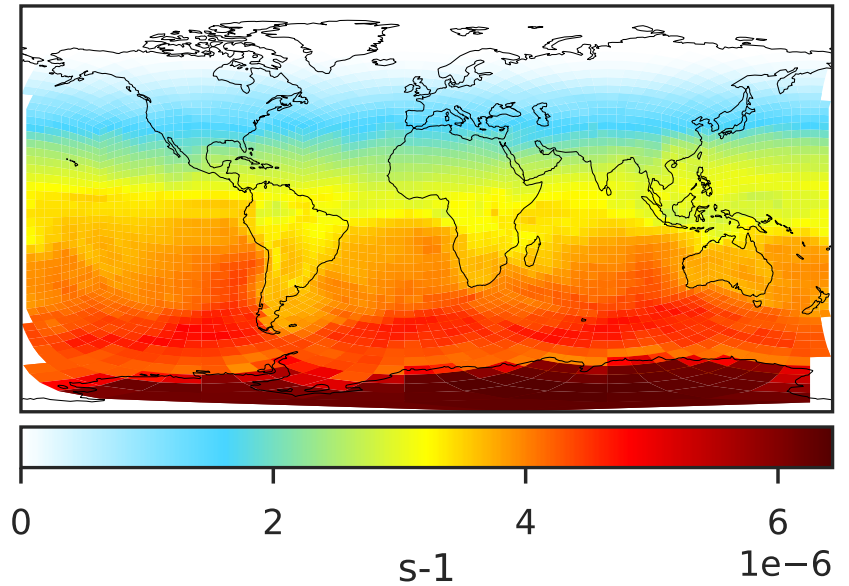
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MAP (Jan2019)

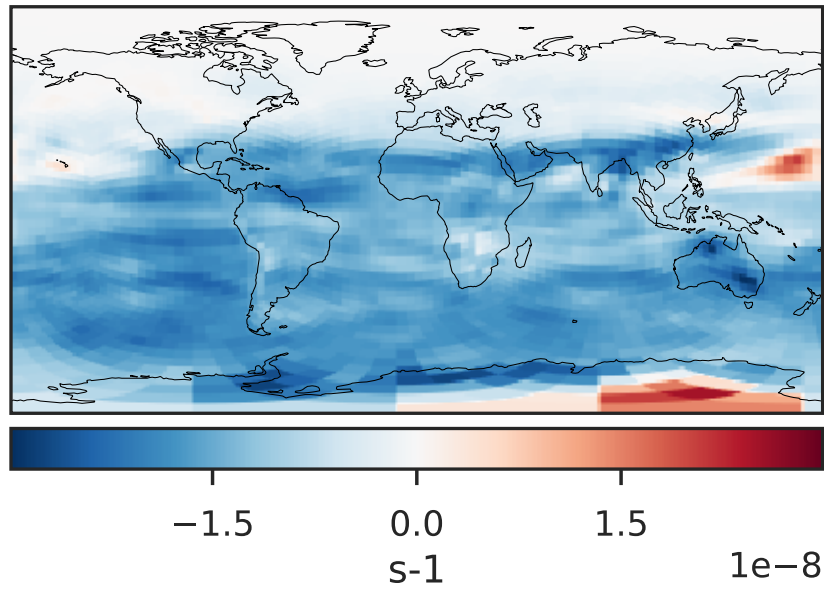
GCHP_14.0.0 (Ref)
c24



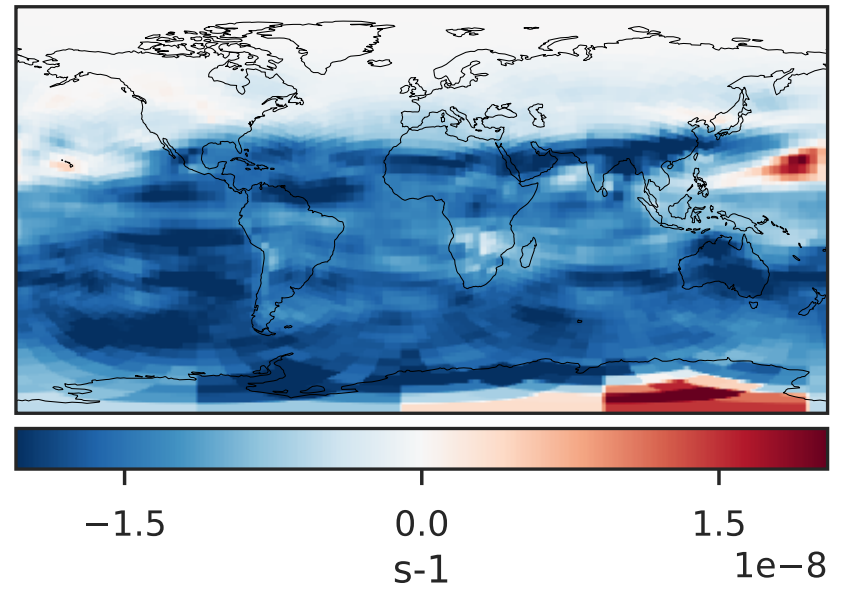
GCHP_14.2.0 (Dev)
c24



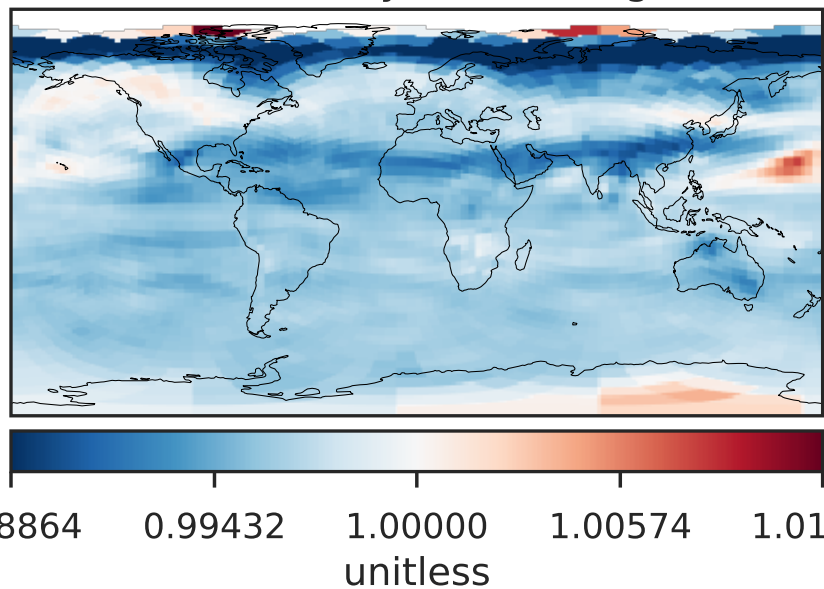
Difference (1x1.25)
Dev - Ref, Dynamic Range



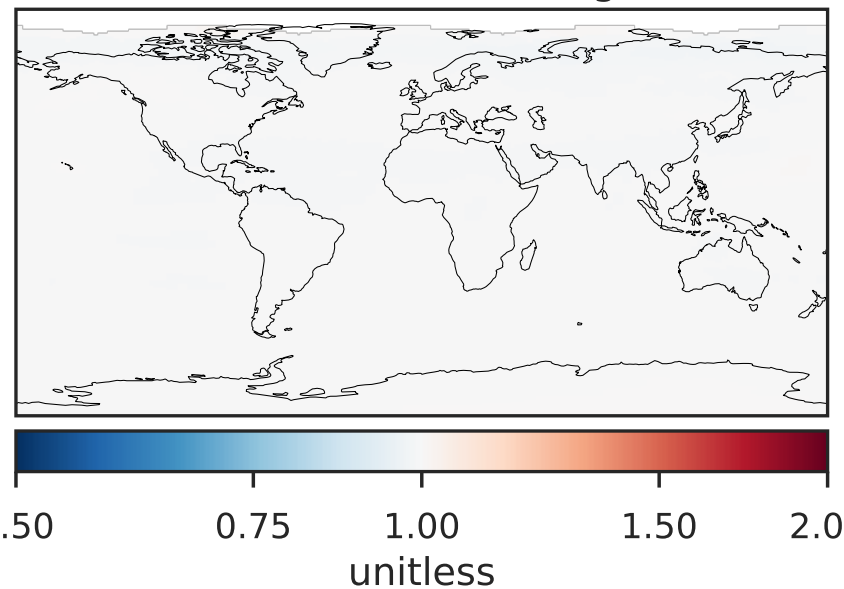
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

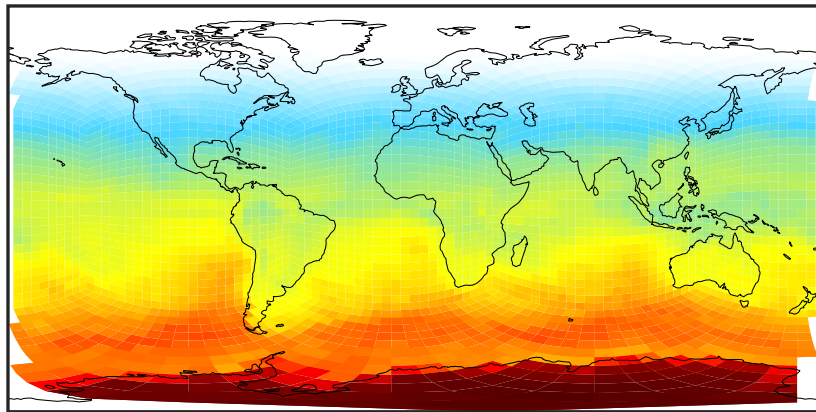


Ratio (1x1.25)
Dev/Ref, Fixed Range



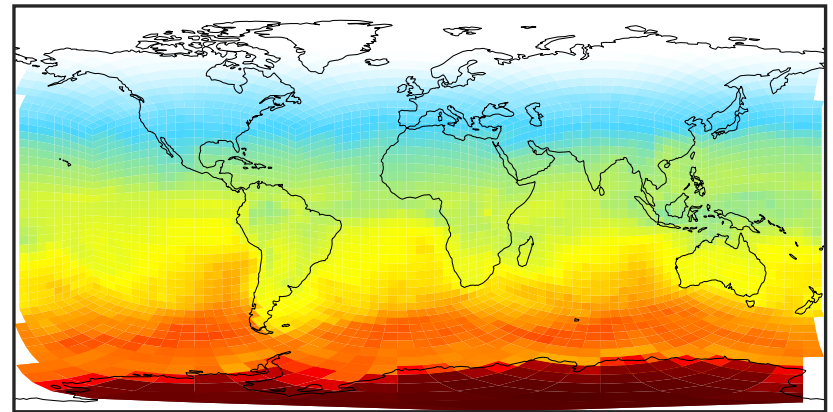
Jval_MCRENOL (Jan2019)

GCHP_14.0.0 (Ref)
c24



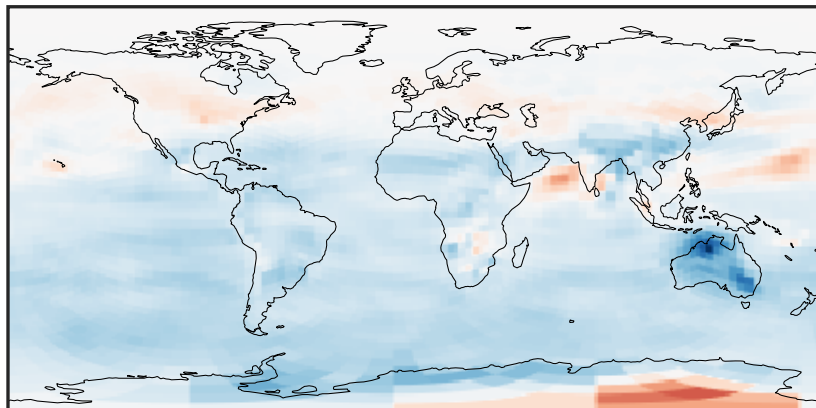
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



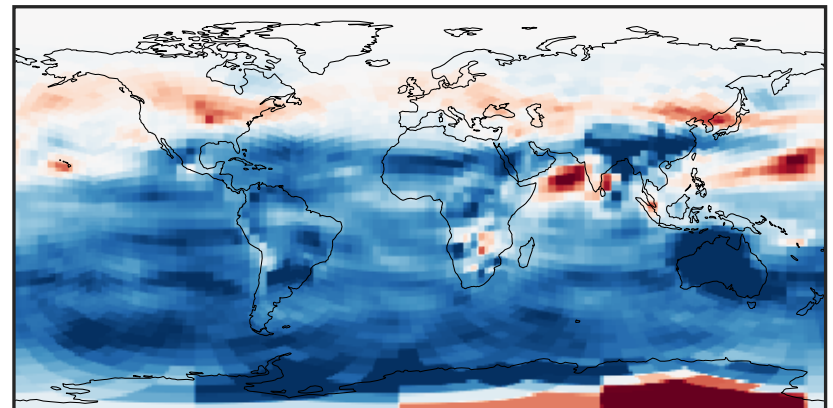
0.0000 0.0001 0.0002 0.0003
s-1

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



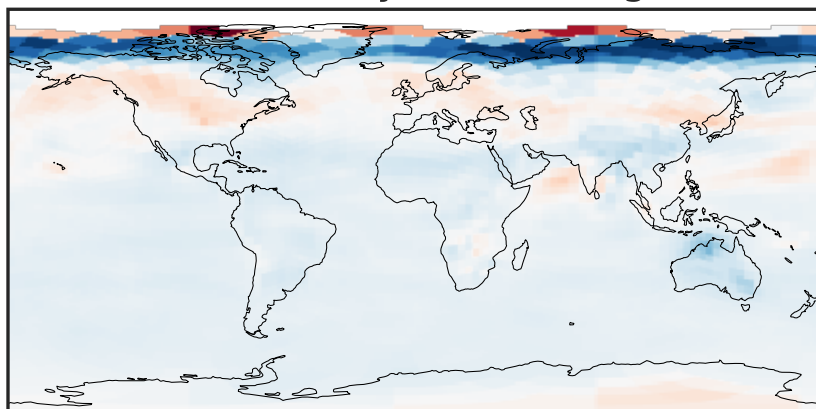
-6 0 6
s-1 1e-7

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



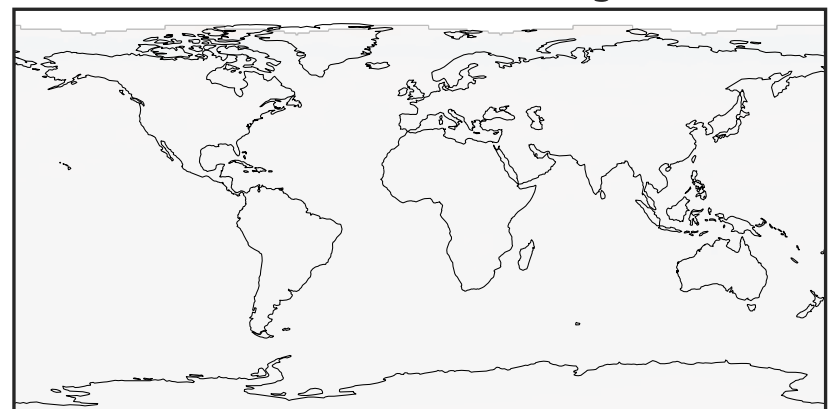
-2 0 2
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98683 0.99342 1.00000 1.00667 1.01334
unitless

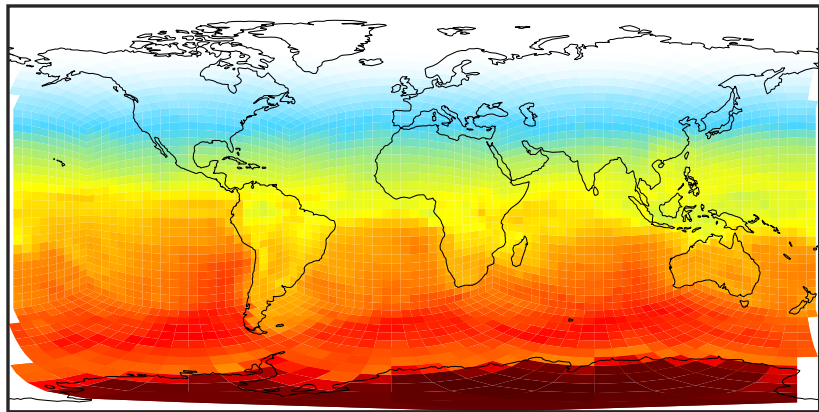
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

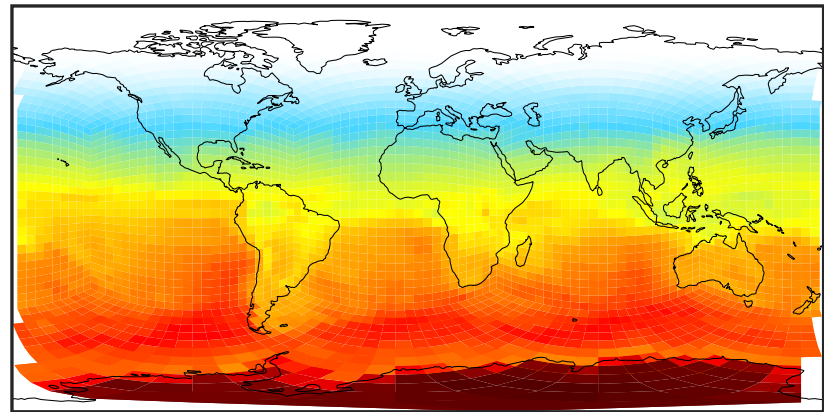
Jval_MCRHN (Jan2019)

GCHP_14.0.0 (Ref)
c24



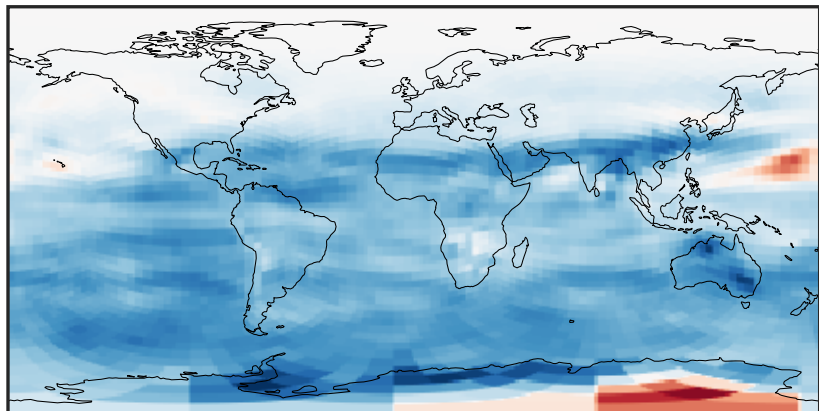
0.0000 0.0001 0.0002 0.0003
s-1

GCHP_14.2.0 (Dev)
c24



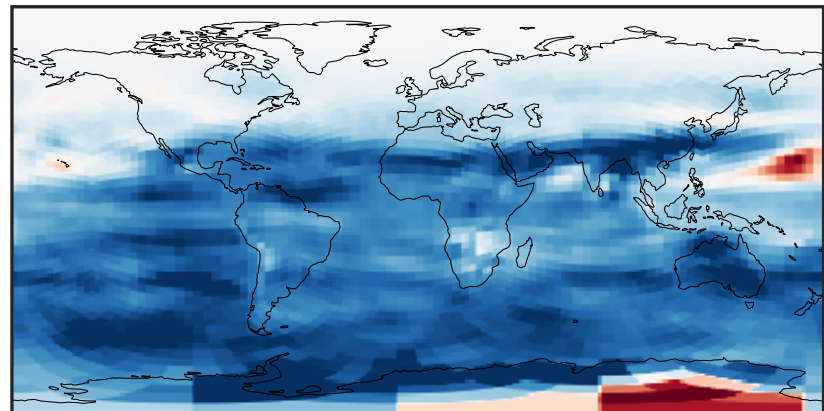
0.0000 0.0001 0.0002 0.0003
s-1

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



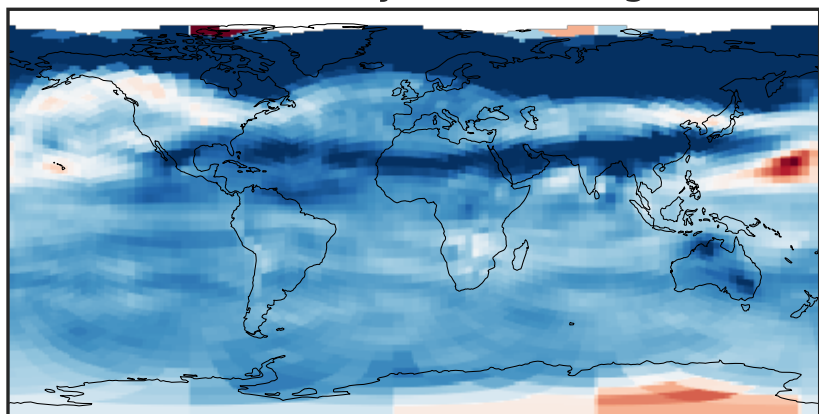
-1 0 1
s-1 1e-6

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



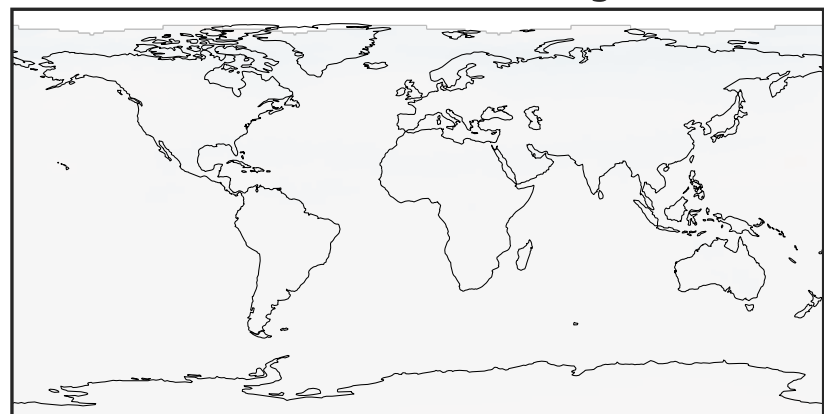
-6 0 6
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99320 0.99660 1.00000 1.00342 1.00685
unitless

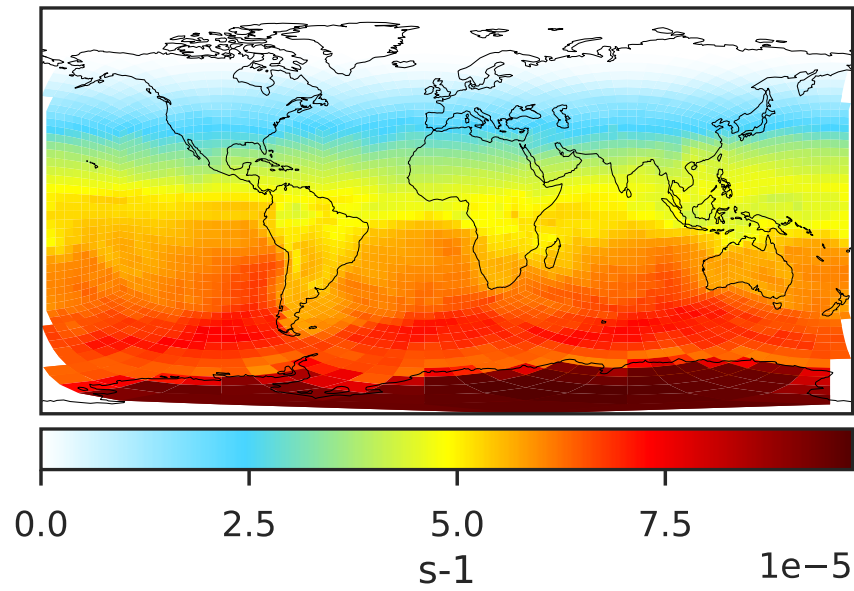
Ratio (1x1.25)
Dev/Ref, Fixed Range



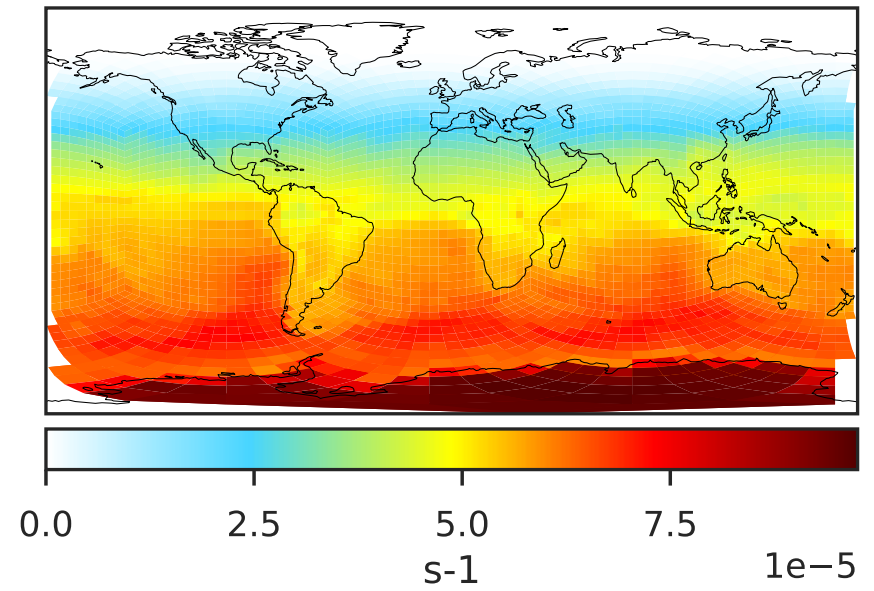
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MCRHNB (Jan2019)

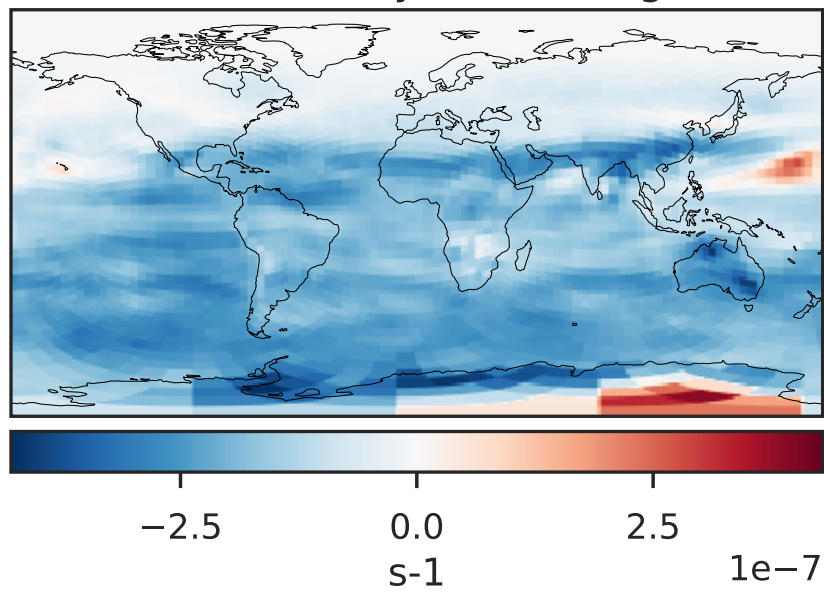
GCHP_14.0.0 (Ref)
c24



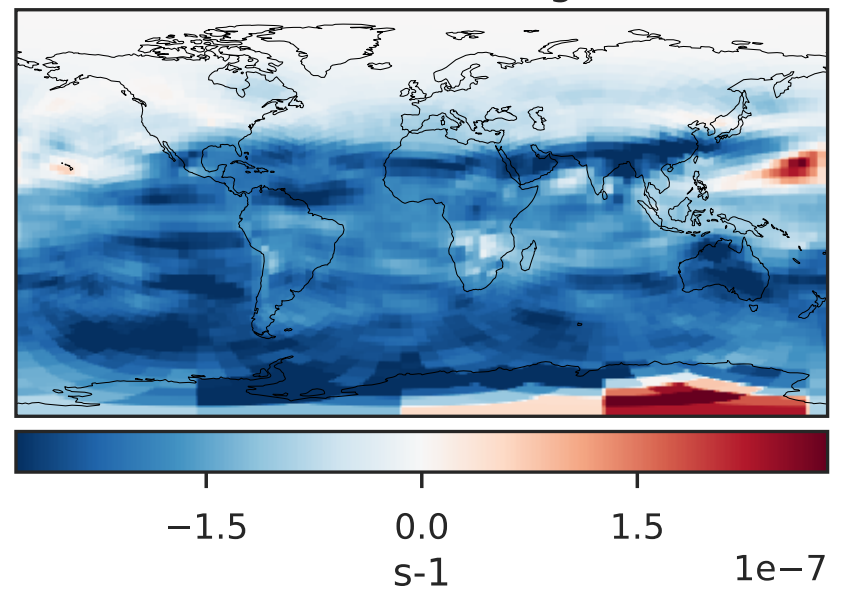
GCHP_14.2.0 (Dev)
c24



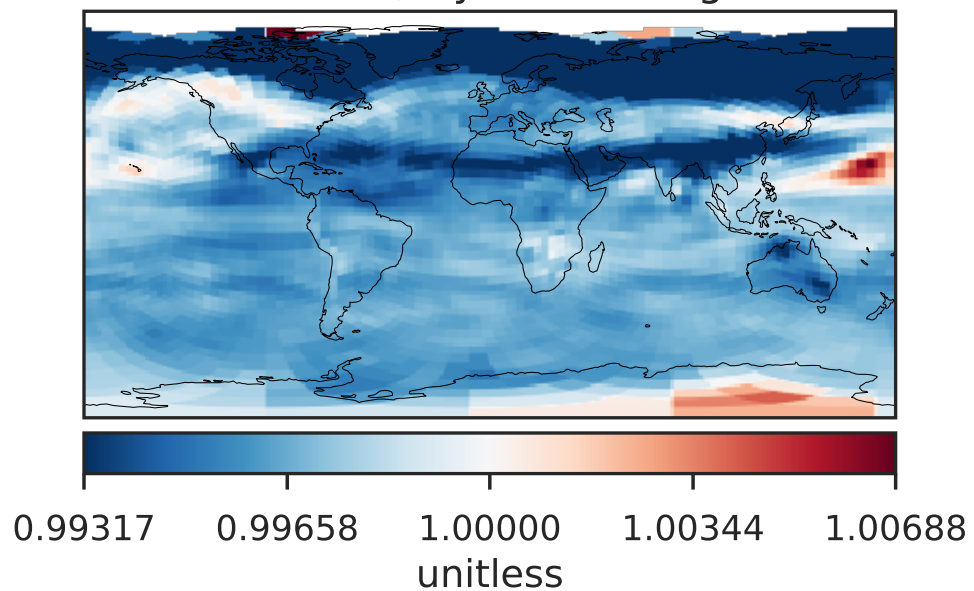
Difference (1x1.25)
Dev - Ref, Dynamic Range



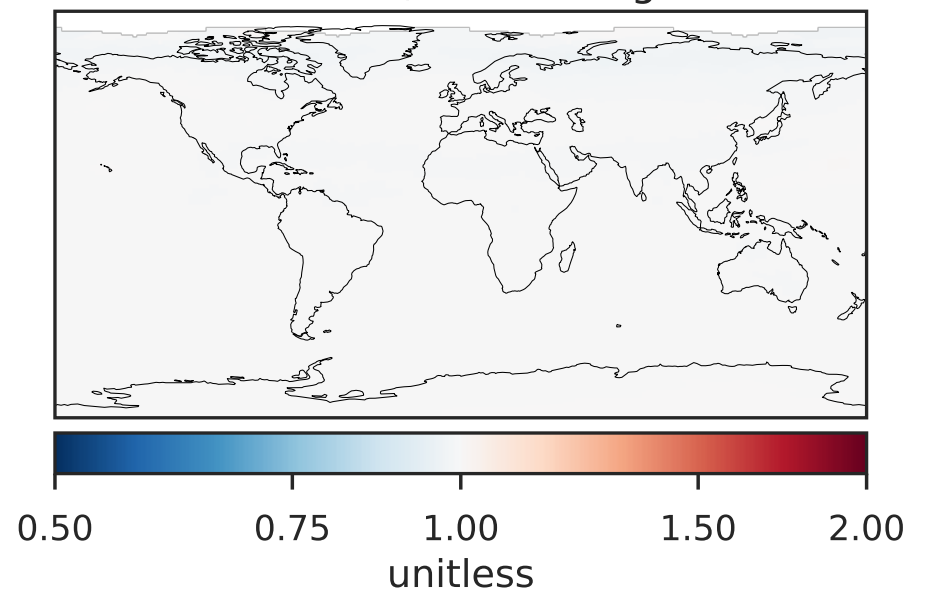
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

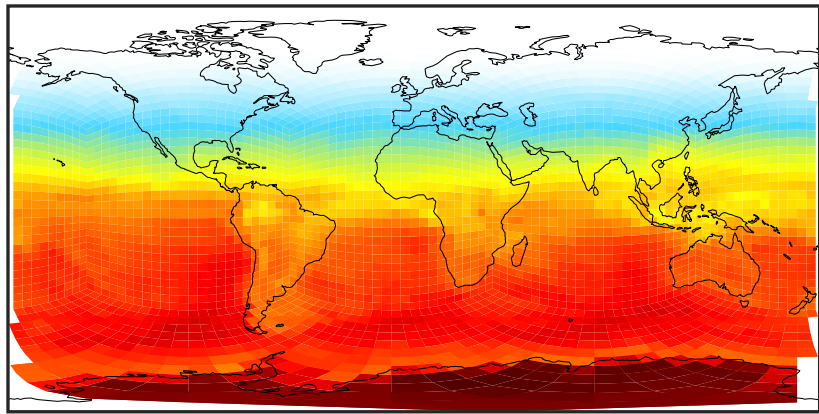


Ratio (1x1.25)
Dev/Ref, Fixed Range



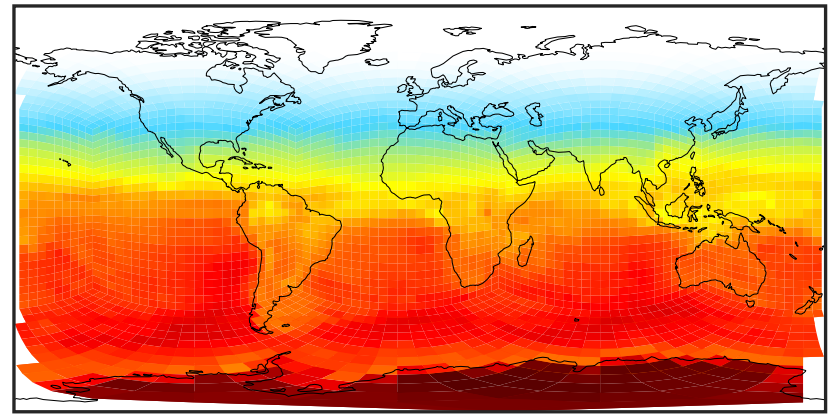
Jval_MCRHP (Jan2019)

GCHP_14.0.0 (Ref)
c24



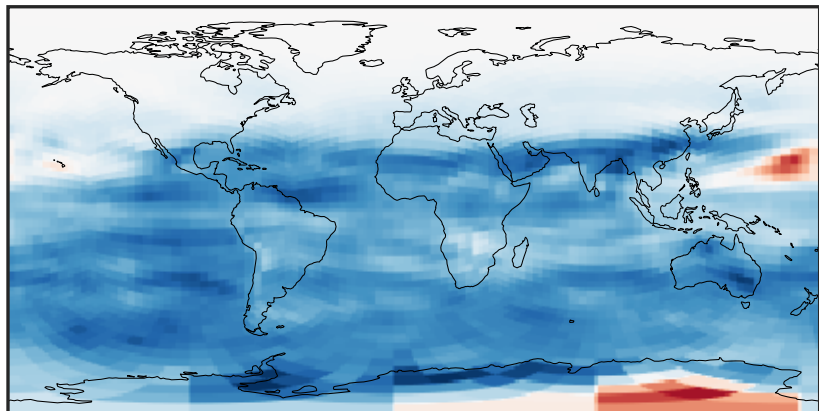
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



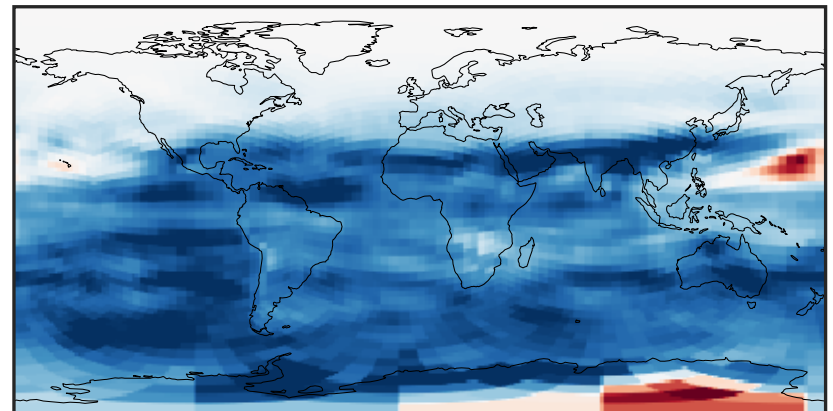
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



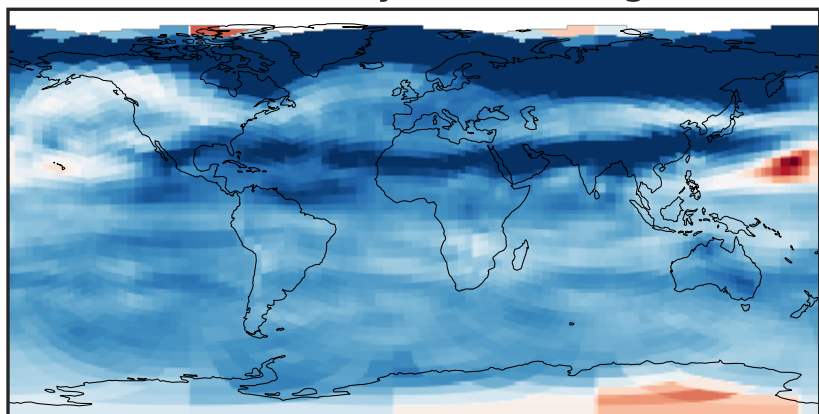
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

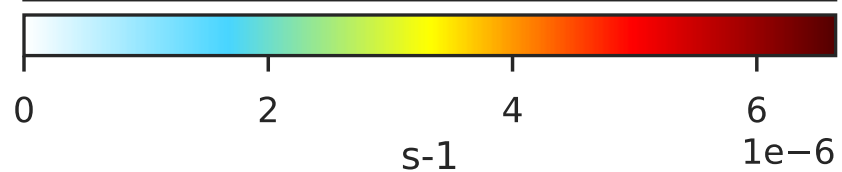
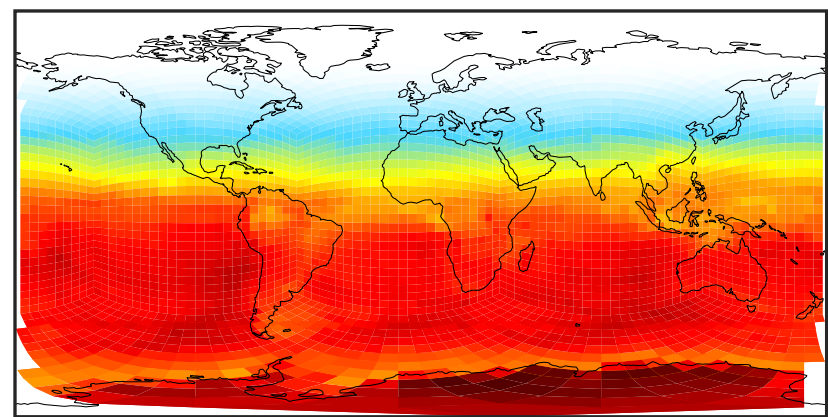
Ratio (1x1.25)
Dev/Ref, Fixed Range



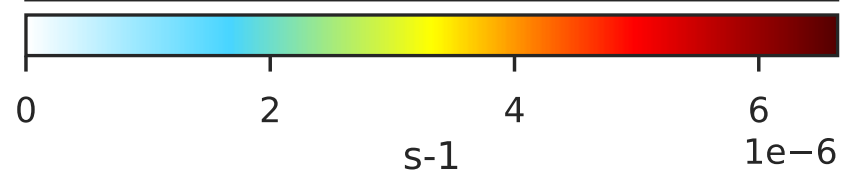
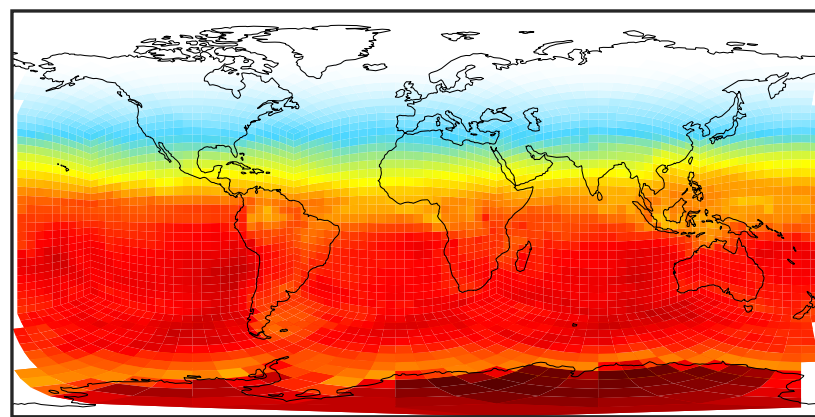
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MEK (Jan2019)

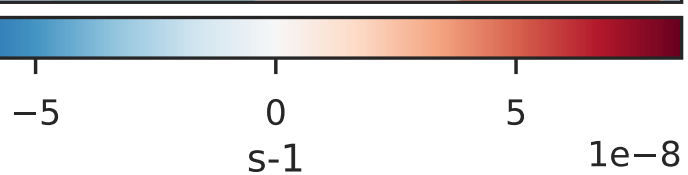
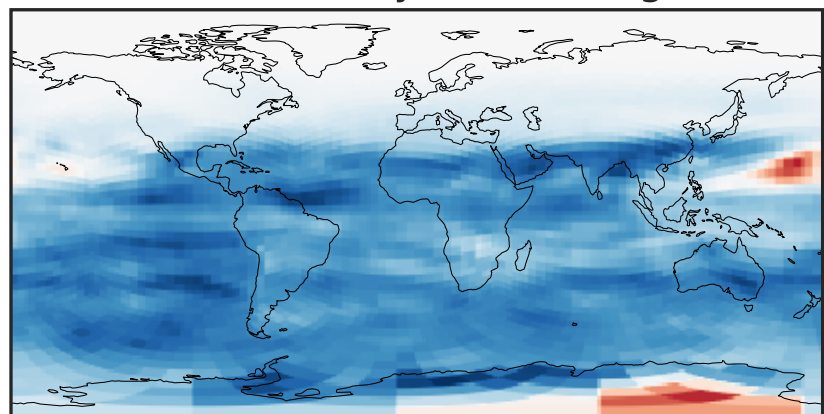
GCHP_14.0.0 (Ref)
c24



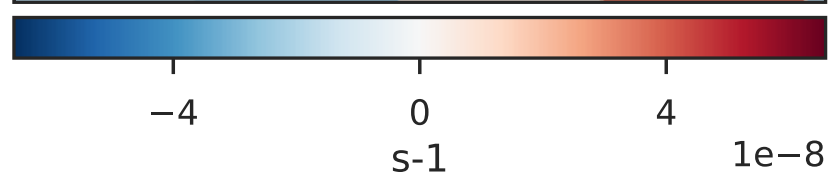
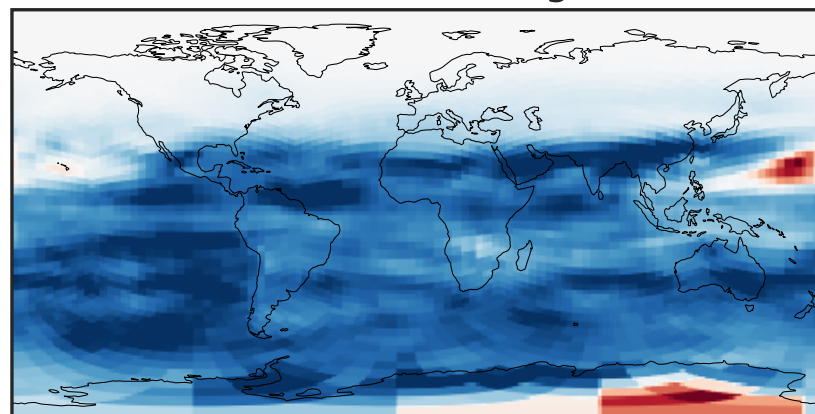
GCHP_14.2.0 (Dev)
c24



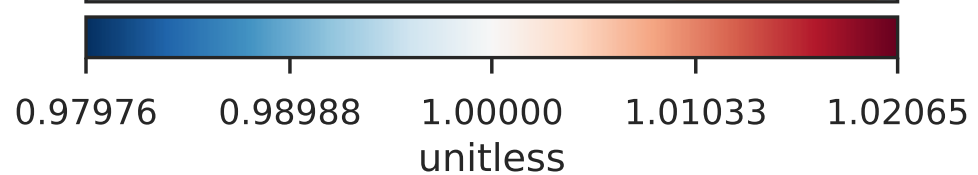
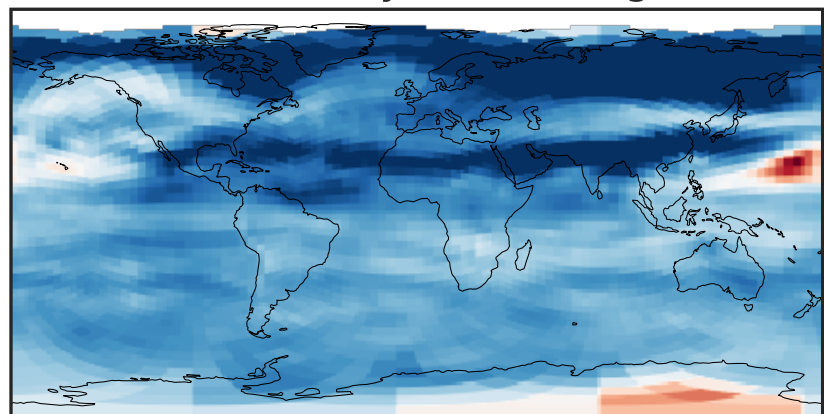
Difference (1x1.25)
Dev - Ref, Dynamic Range



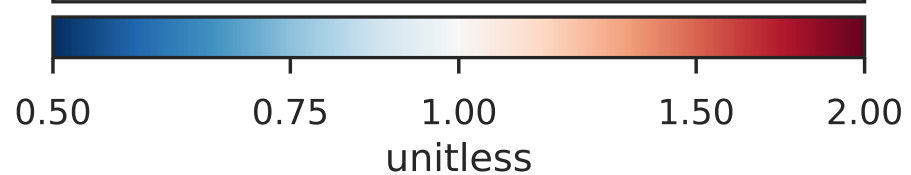
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

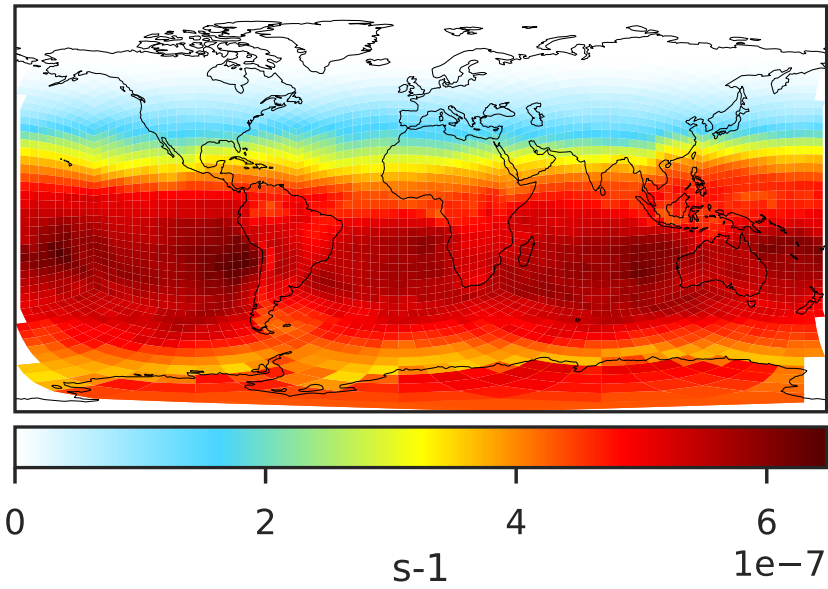


Ratio (1x1.25)
Dev/Ref, Fixed Range

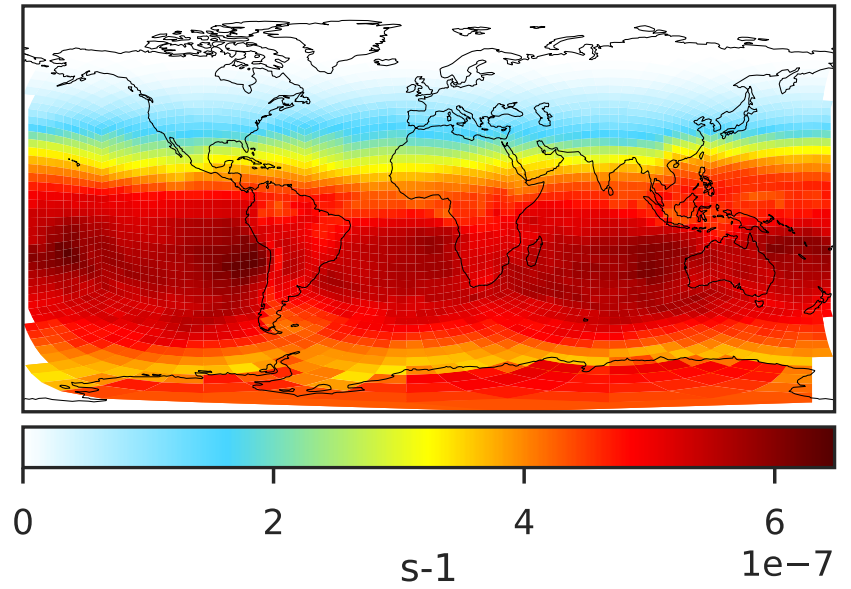


Jval_MENO3 (Jan2019)

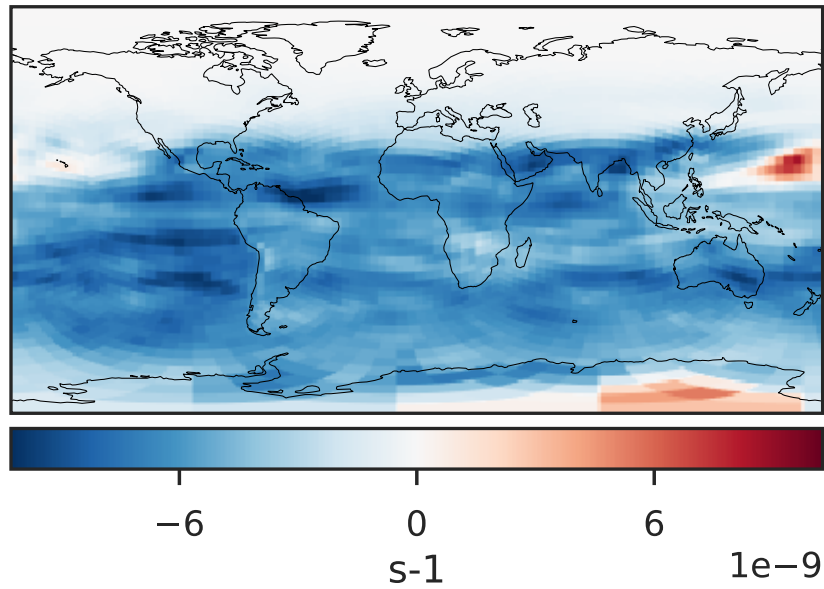
GCHP_14.0.0 (Ref)
c24



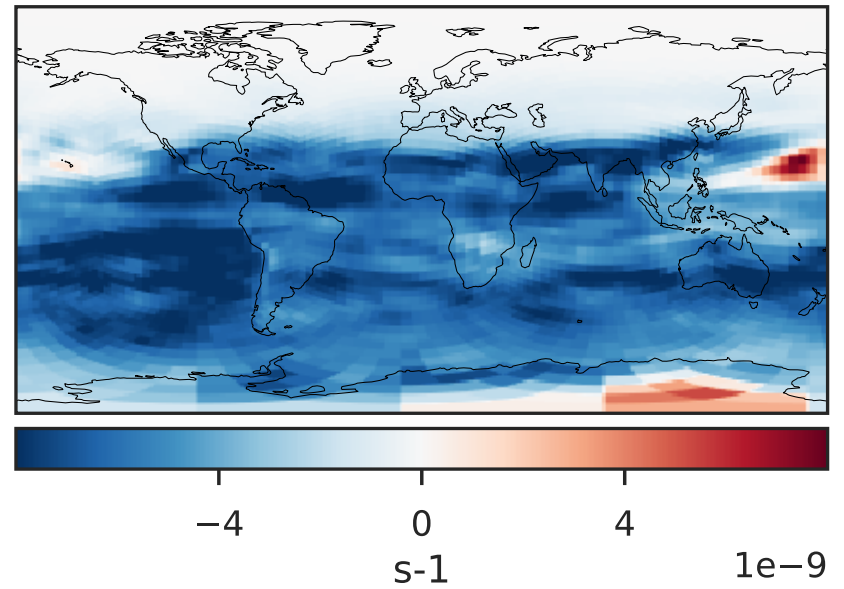
GCHP_14.2.0 (Dev)
c24



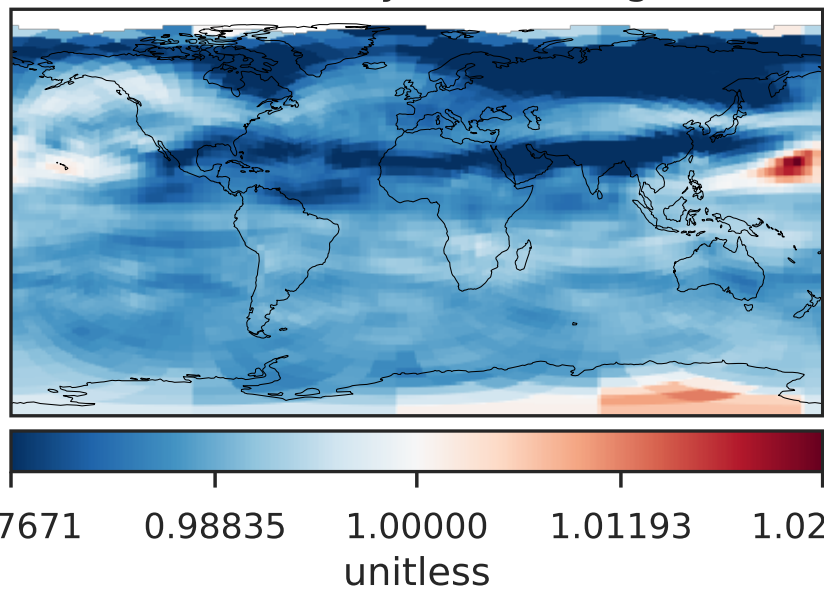
Difference (1x1.25)
Dev - Ref, Dynamic Range



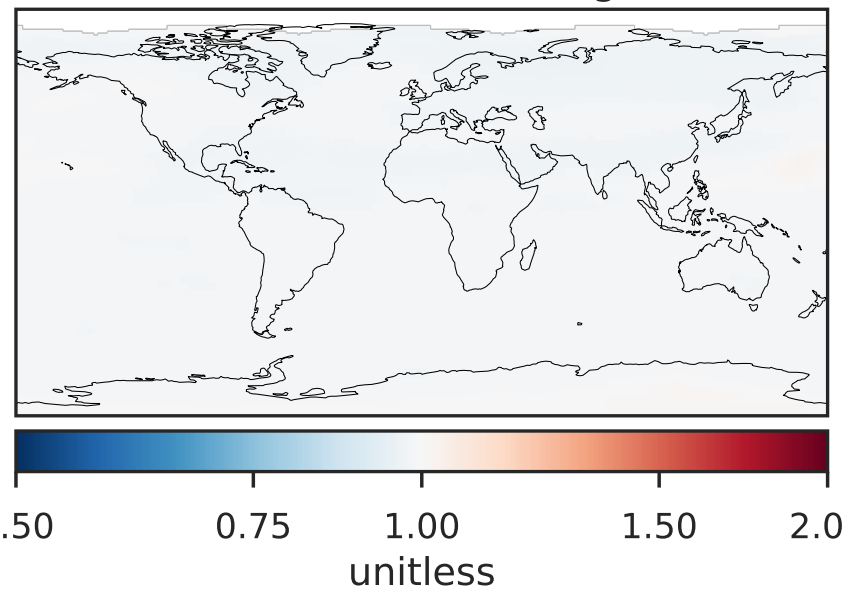
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

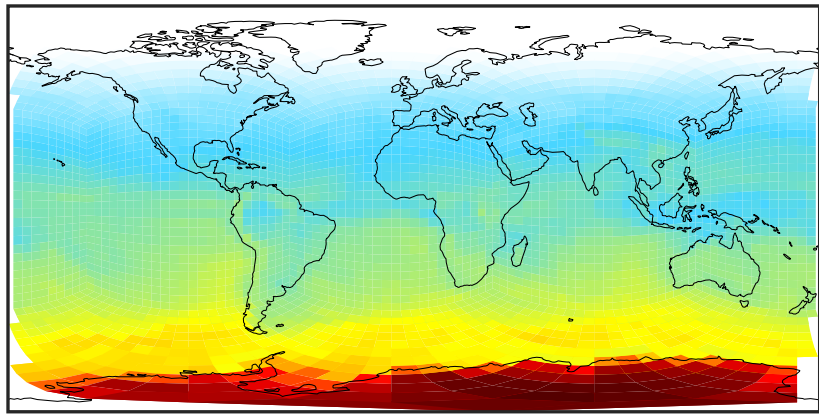


Ratio (1x1.25)
Dev/Ref, Fixed Range



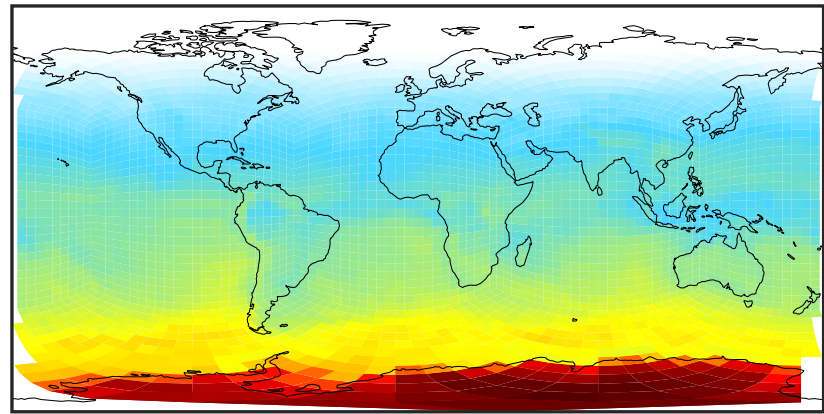
Jval_MGLY (Jan2019)

GCHP_14.0.0 (Ref)
c24



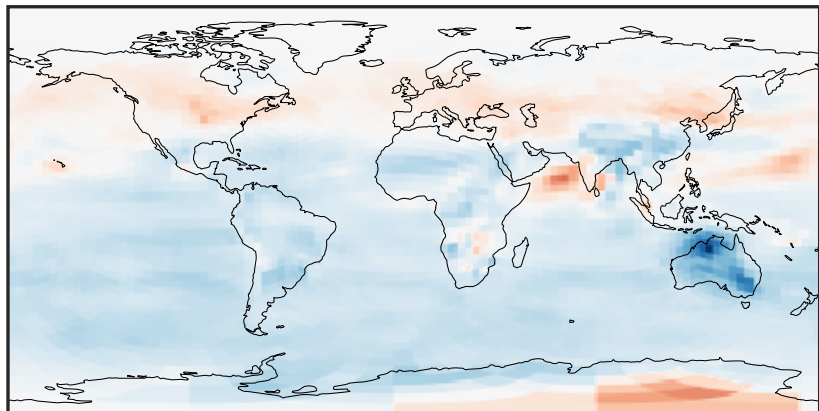
0.00000 0.00015 0.00030 0.00045
s-1

GCHP_14.2.0 (Dev)
c24



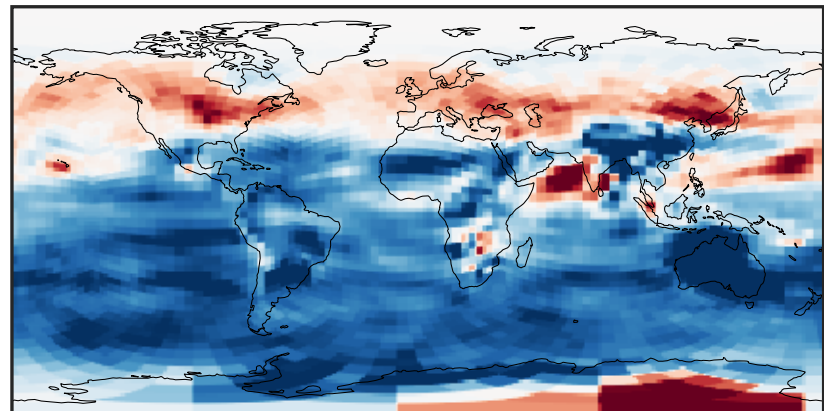
0.00000 0.00015 0.00030 0.00045
s-1

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



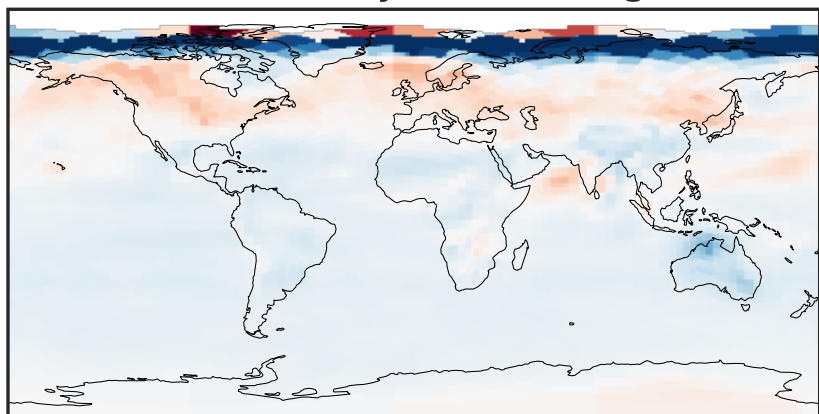
-5 0 5
s-1 1e-7

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



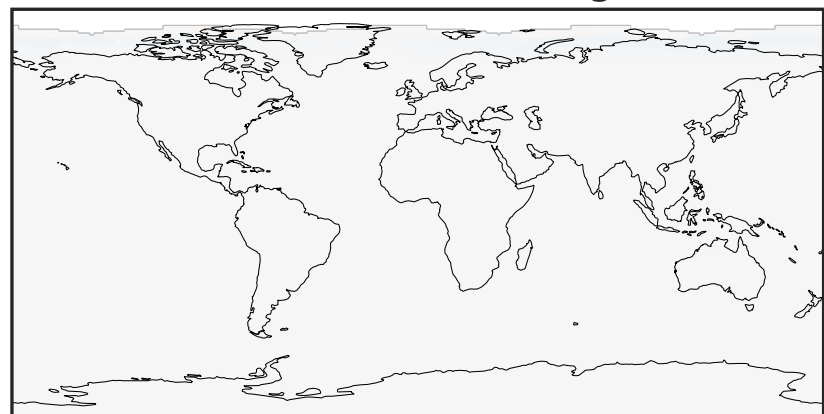
-1.5 0.0 1.5
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98872 0.99436 1.00000 1.00570 1.01141
unitless

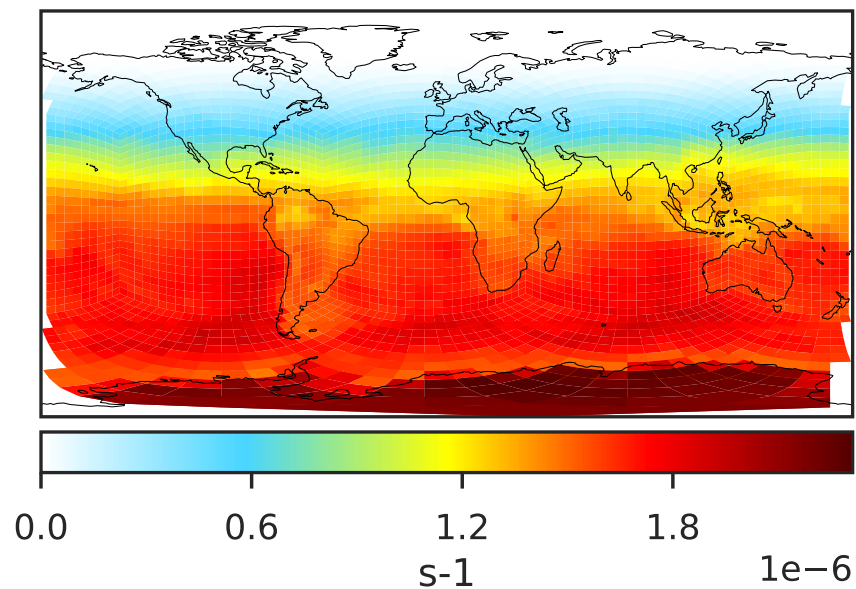
Ratio (1x1.25)
Dev/Ref, Fixed Range



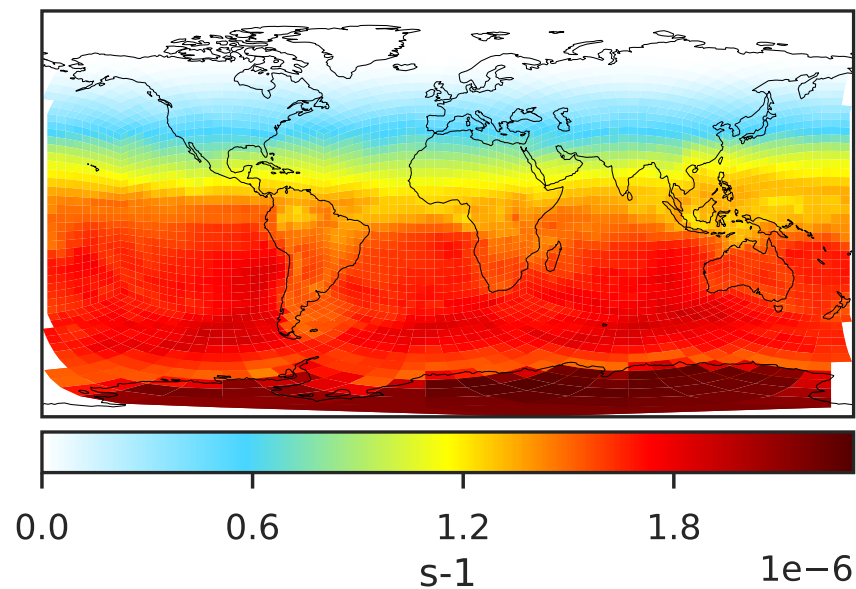
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MONITS (Jan2019)

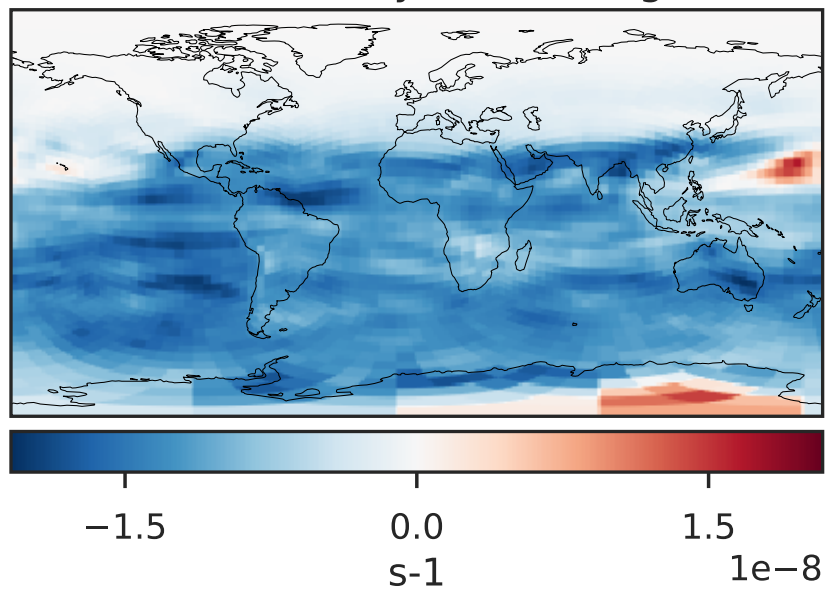
GCHP_14.0.0 (Ref)
c24



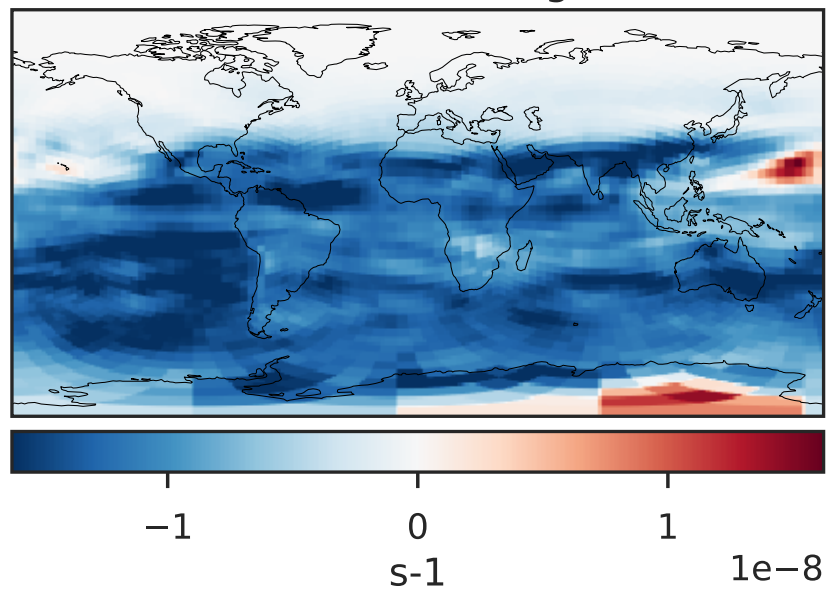
GCHP_14.2.0 (Dev)
c24



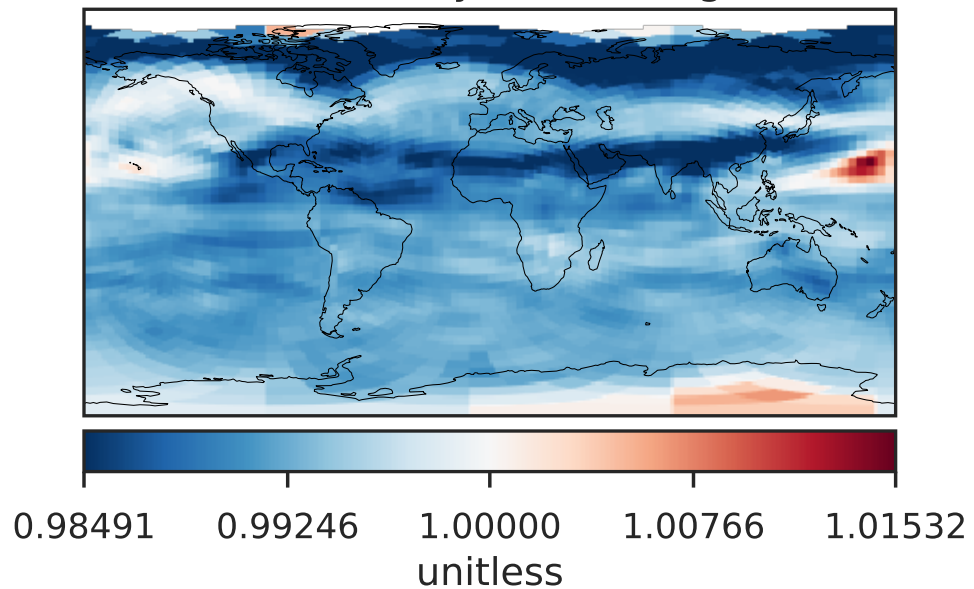
Difference (1x1.25)
Dev - Ref, Dynamic Range



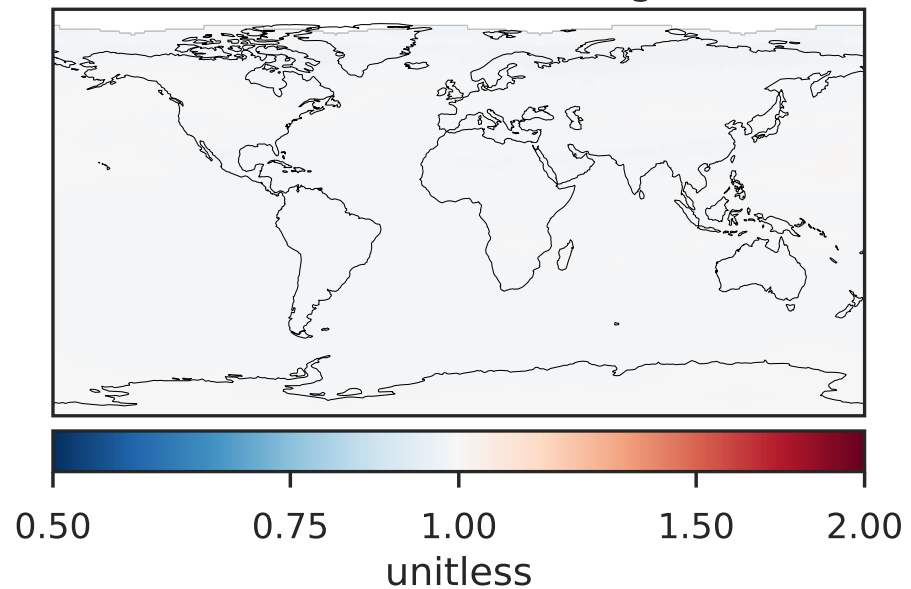
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

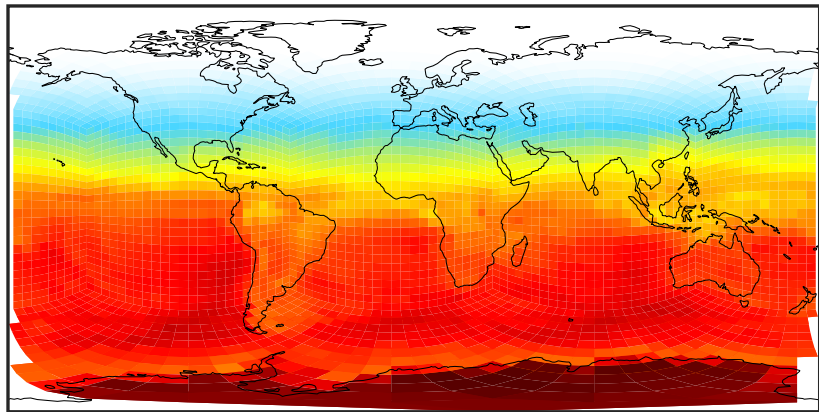


Ratio (1x1.25)
Dev/Ref, Fixed Range



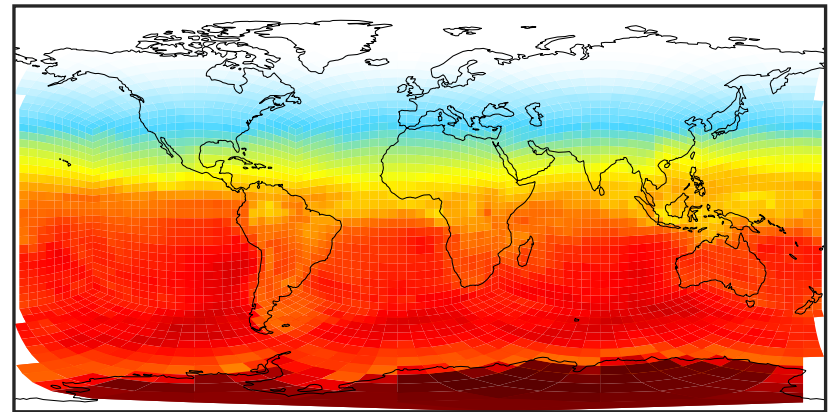
Jval_MONITU (Jan2019)

GCHP_14.0.0 (Ref)
c24



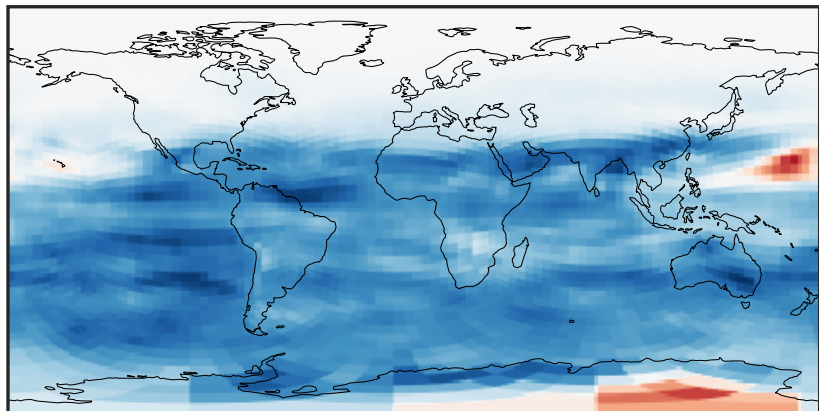
0.0 0.6 1.2 1.8 10^{-6} s-1

GCHP_14.2.0 (Dev)
c24



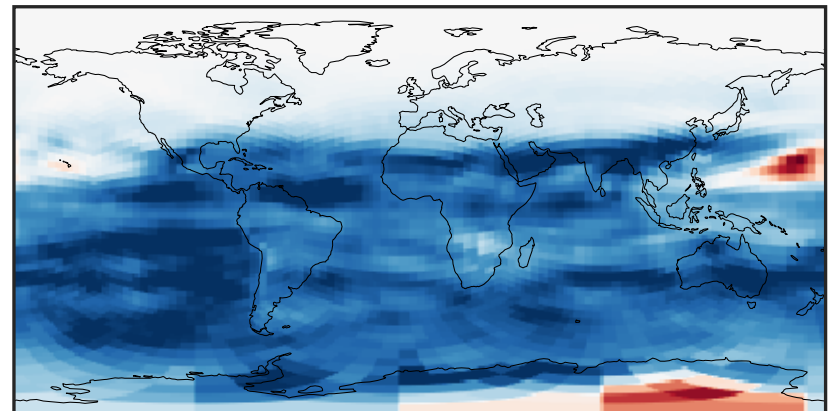
0.0 0.6 1.2 1.8 10^{-6} s-1

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



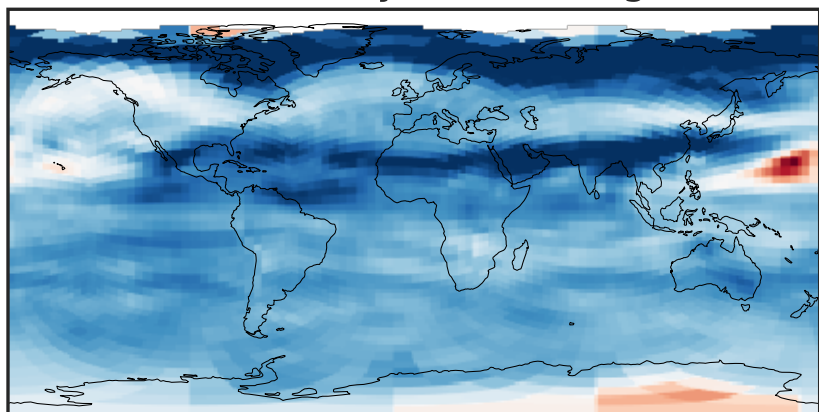
-1.5 0.0 1.5 10^{-8} s-1

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98491 0.99246 1.00000 1.00766 1.01532
unitless

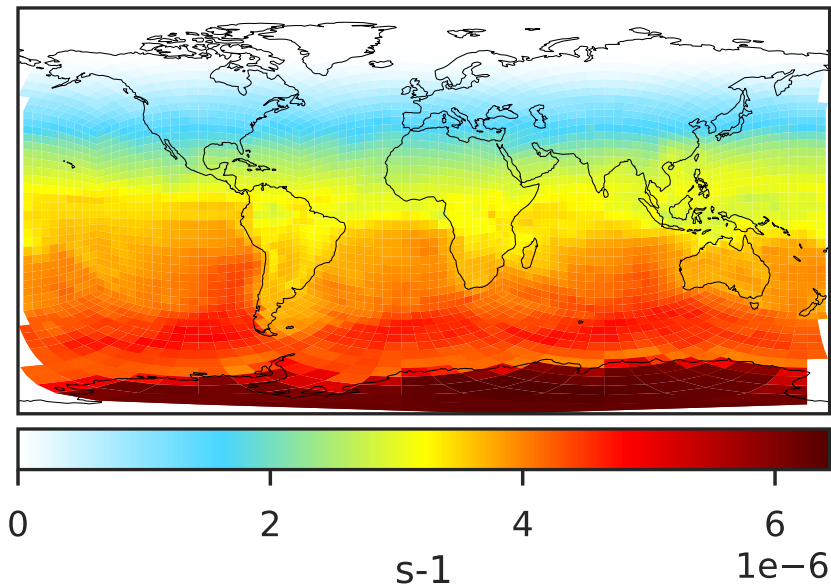
Ratio (1x1.25)
Dev/Ref, Fixed Range



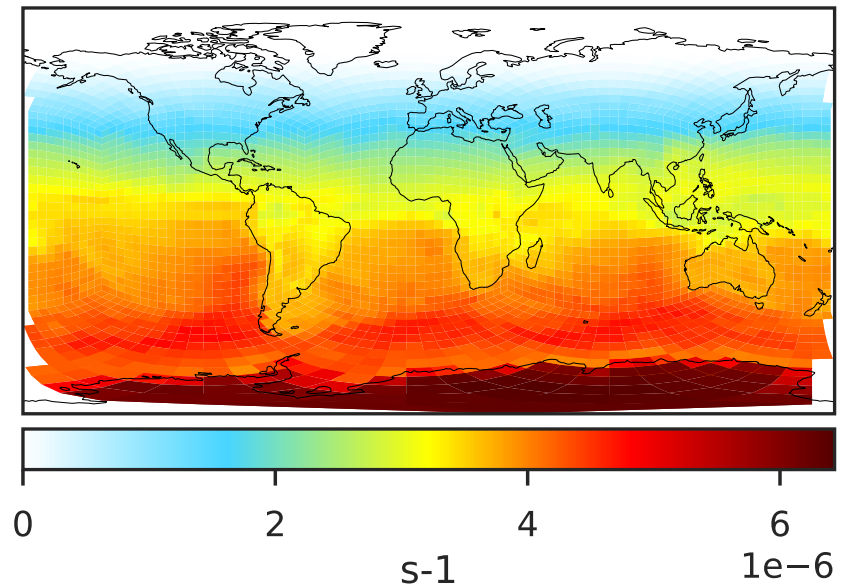
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MP (Jan2019)

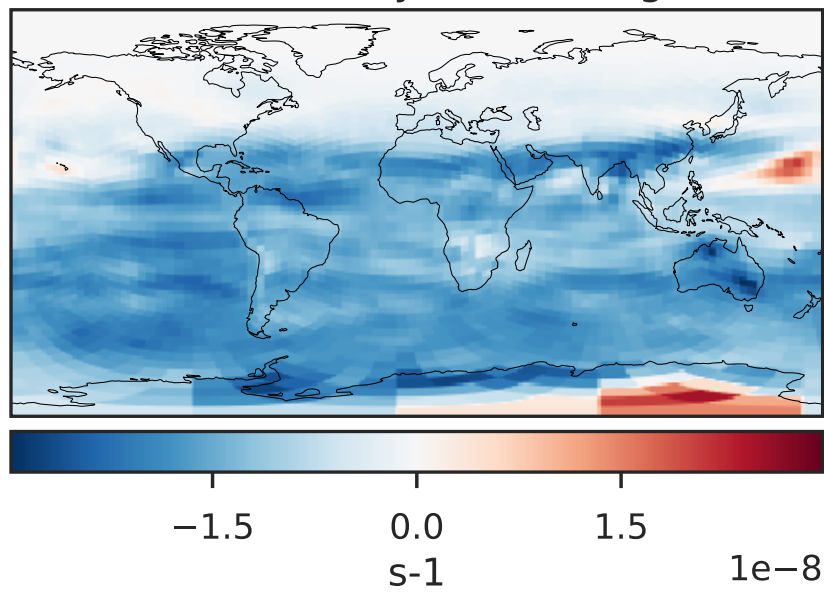
GCHP_14.0.0 (Ref)
c24



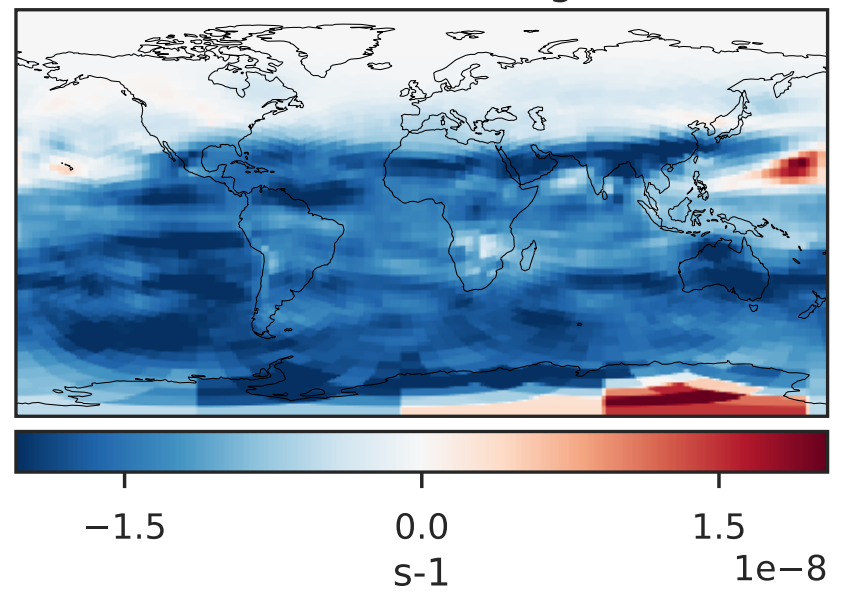
GCHP_14.2.0 (Dev)
c24



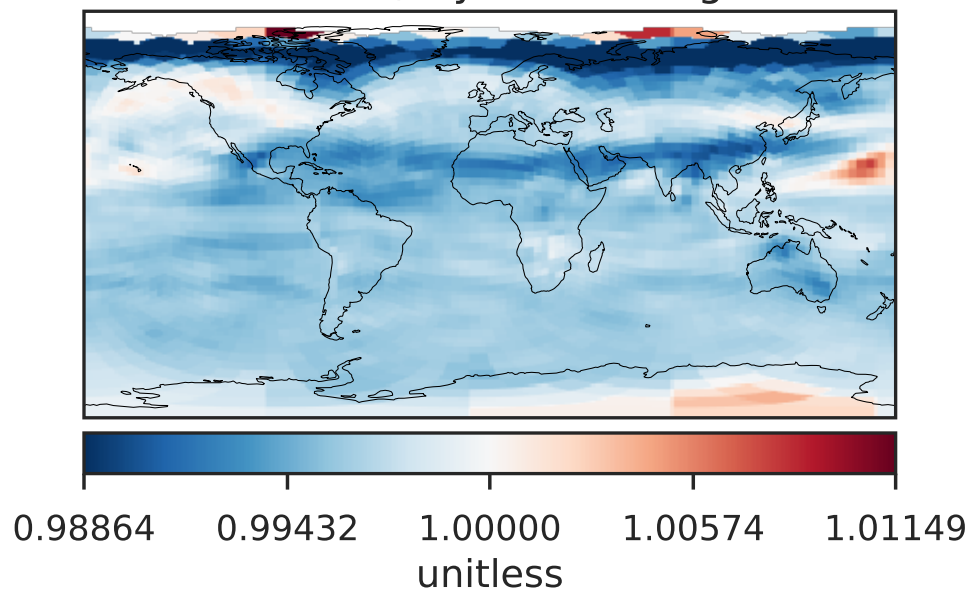
Difference (1x1.25)
Dev - Ref, Dynamic Range



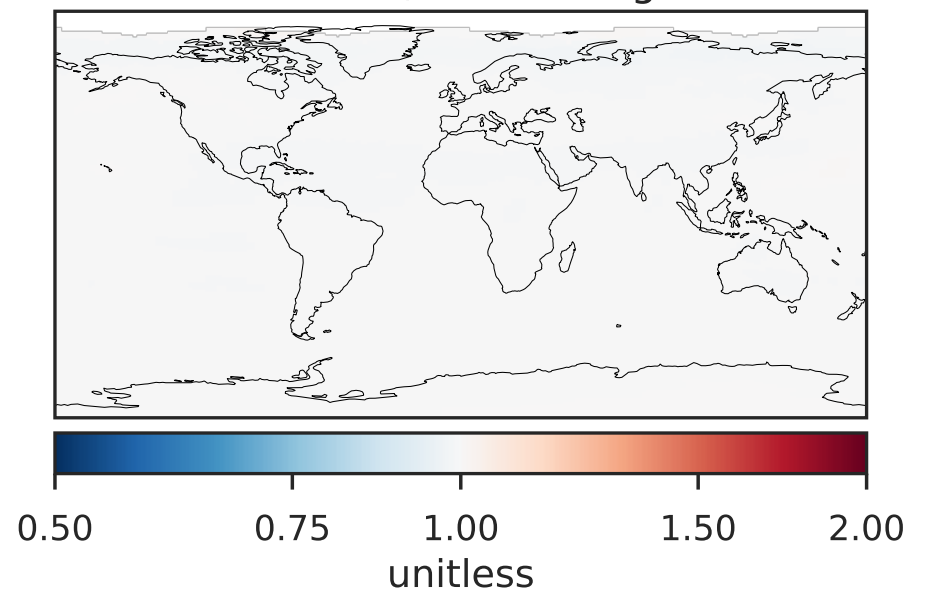
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

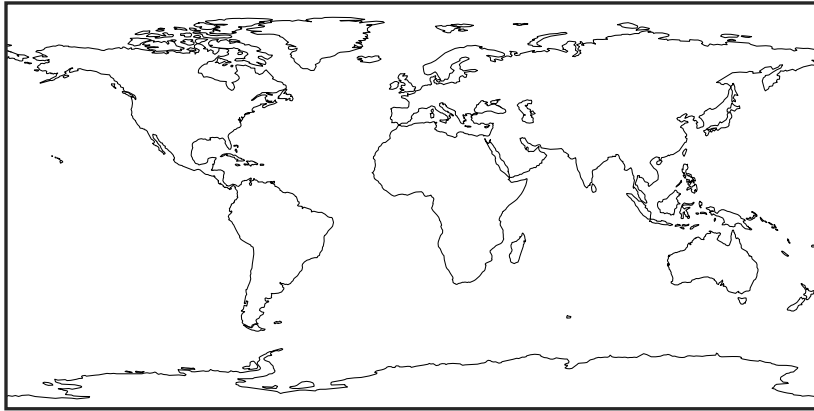


Ratio (1x1.25)
Dev/Ref, Fixed Range



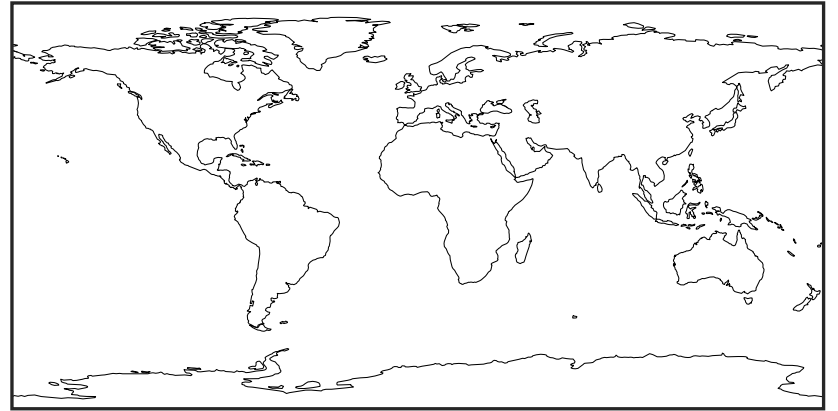
Jval_MPAN (Jan2019)

GCHP_14.0.0 (Ref)
c24



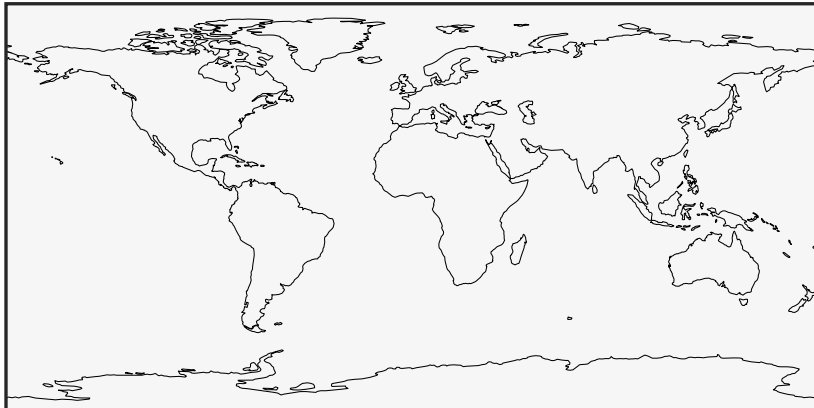
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



Zero throughput domain
s-1

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



Zero throughput domain
s-1

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



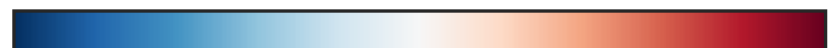
Zero throughput domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

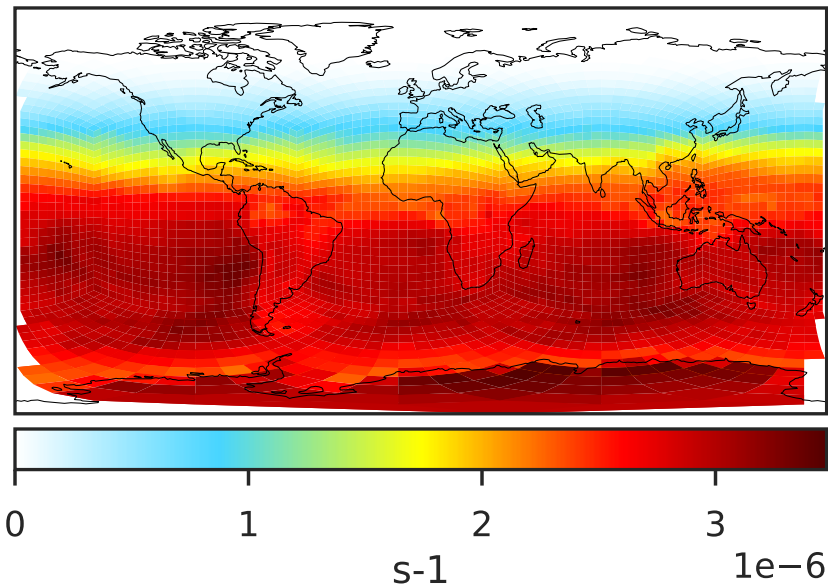
Ratio (1x1.25)
Dev/Ref, Fixed Range



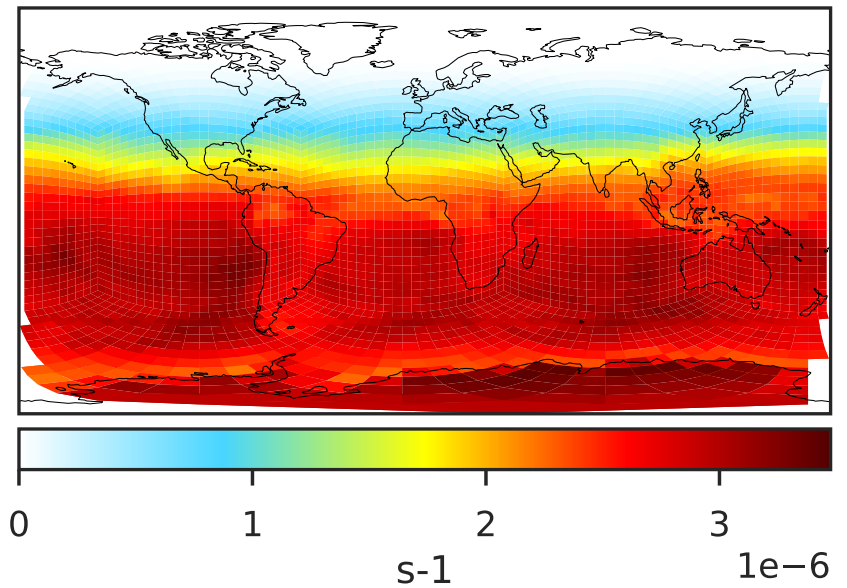
Undefined throughput domain
unitless

Jval_MPN (Jan2019)

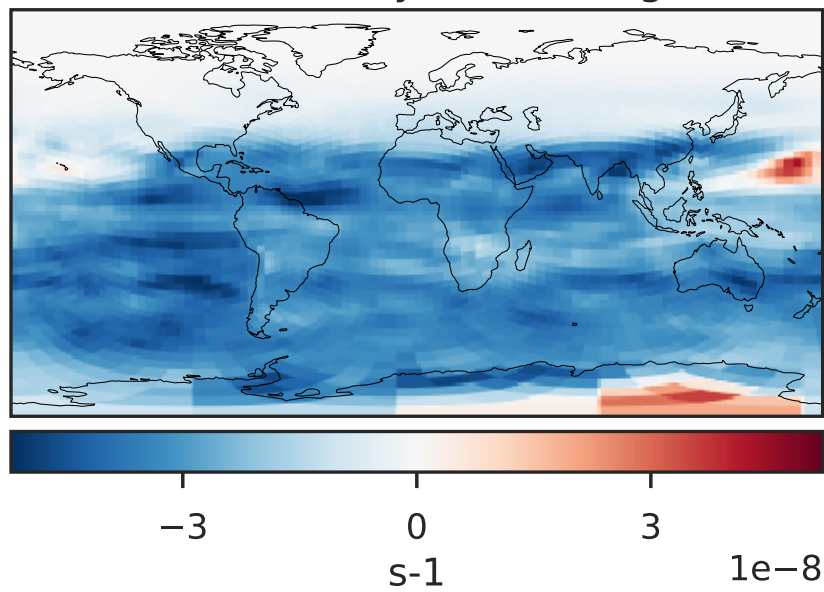
GCHP_14.0.0 (Ref)
c24



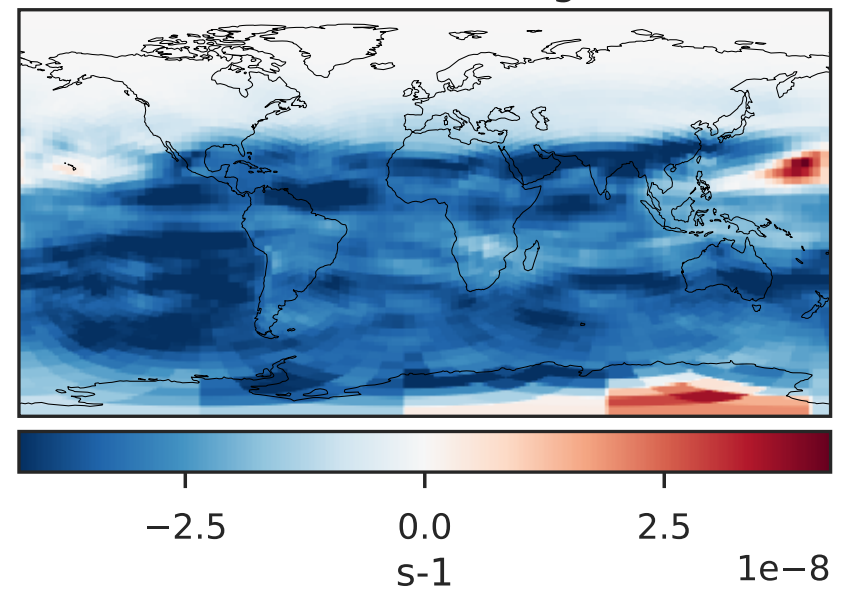
GCHP_14.2.0 (Dev)
c24



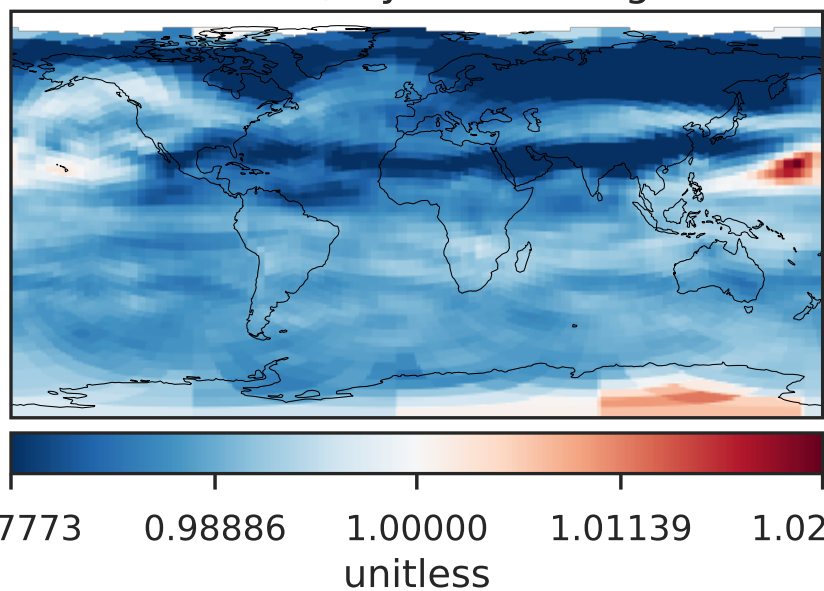
Difference (1x1.25)
Dev - Ref, Dynamic Range



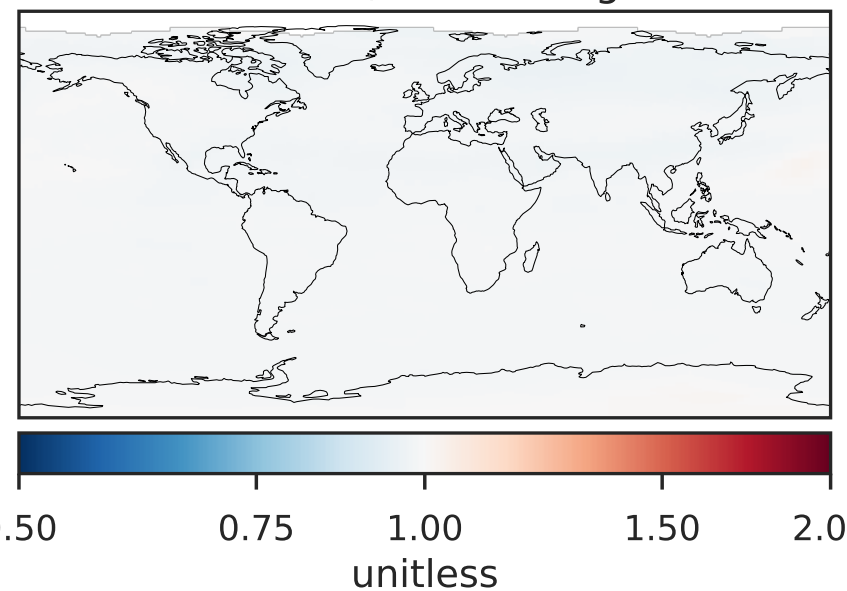
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

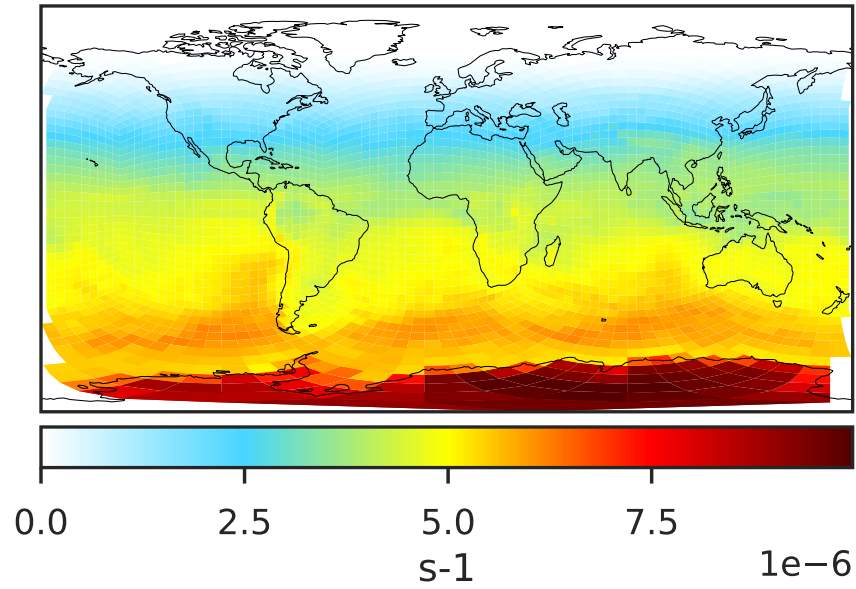


Ratio (1x1.25)
Dev/Ref, Fixed Range

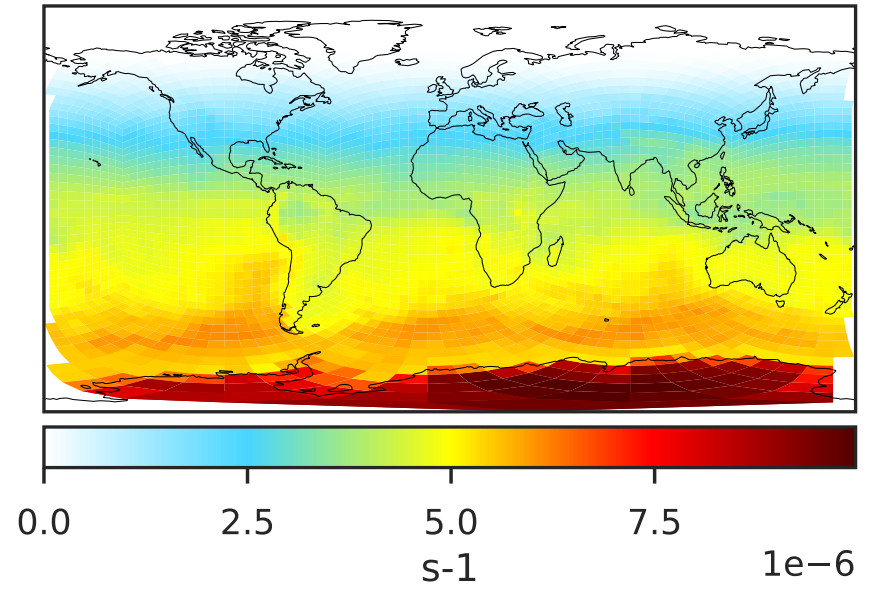


Jval_MVK (Jan2019)

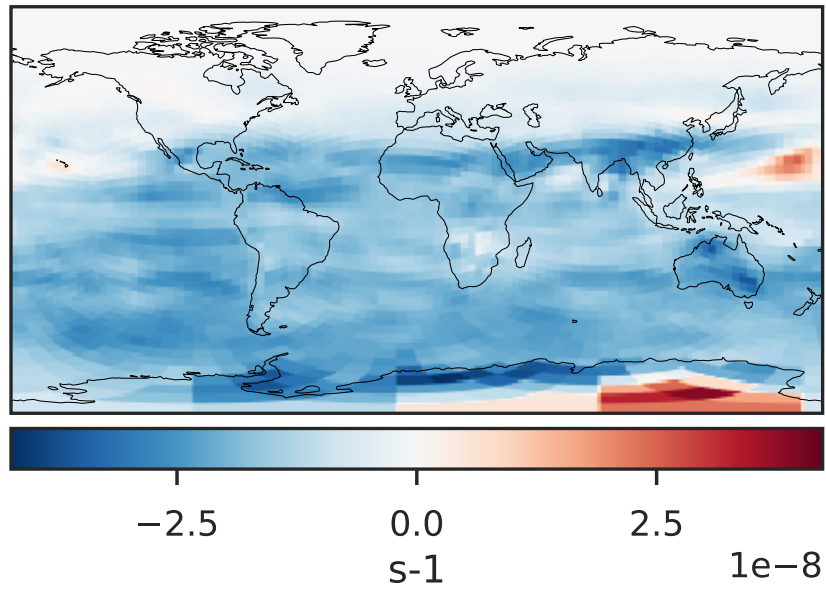
GCHP_14.0.0 (Ref)
c24



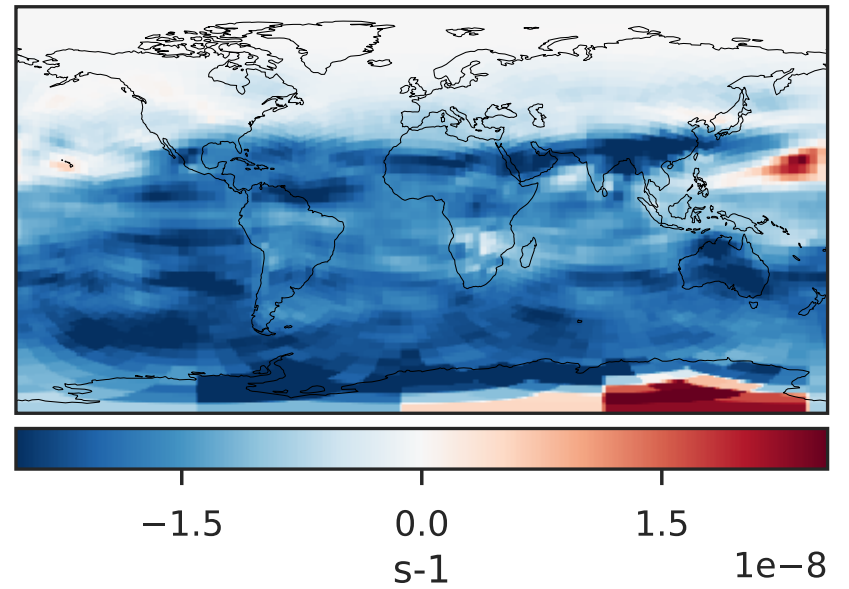
GCHP_14.2.0 (Dev)
c24



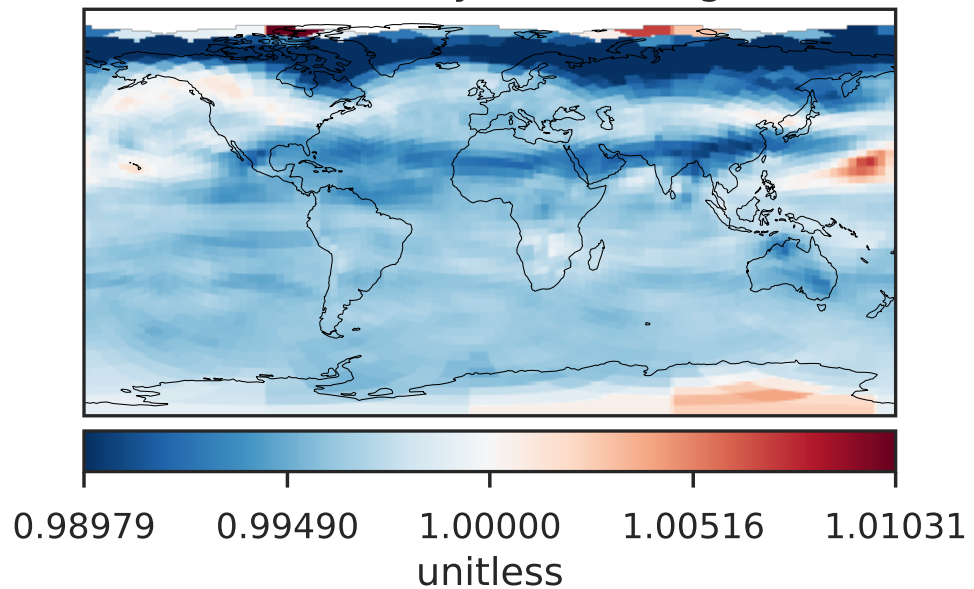
Difference (1x1.25)
Dev - Ref, Dynamic Range



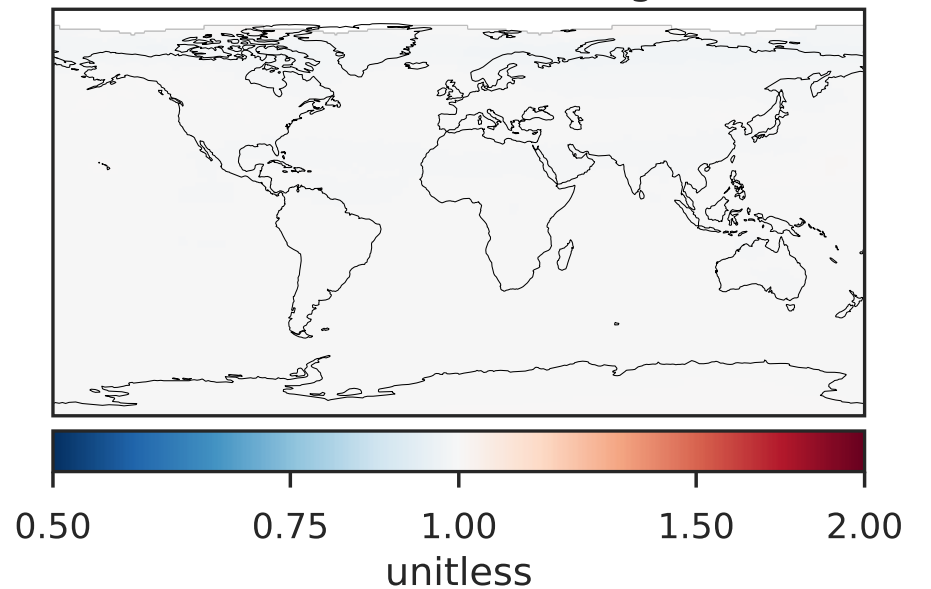
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

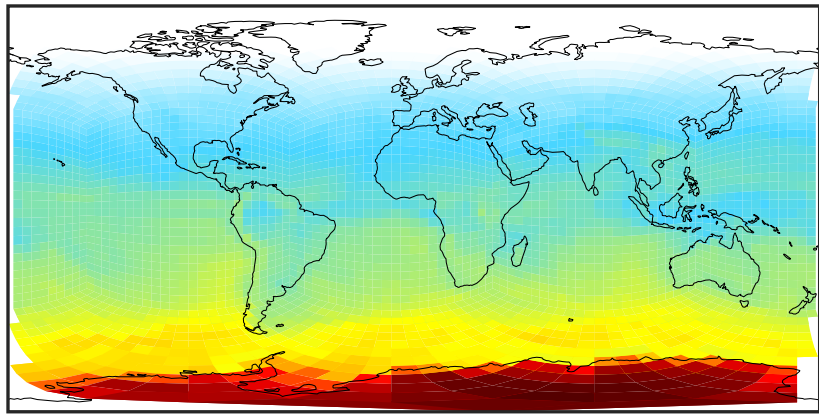


Ratio (1x1.25)
Dev/Ref, Fixed Range



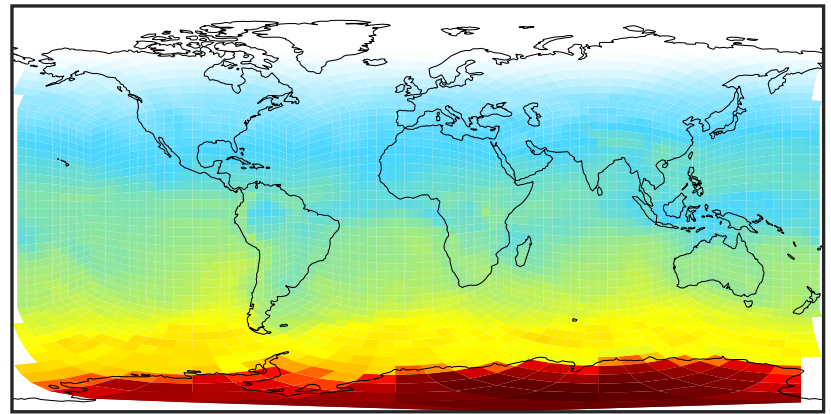
Jval_MVKHC (Jan2019)

GCHP_14.0.0 (Ref)
c24



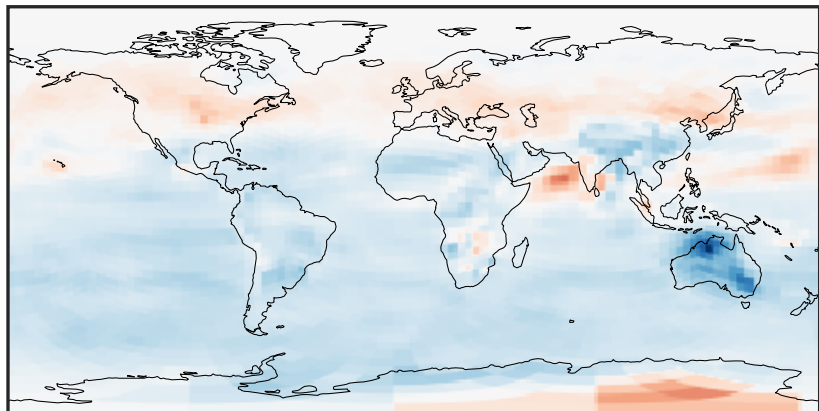
0.00000 0.00015 0.00030 0.00045
s-1

GCHP_14.2.0 (Dev)
c24



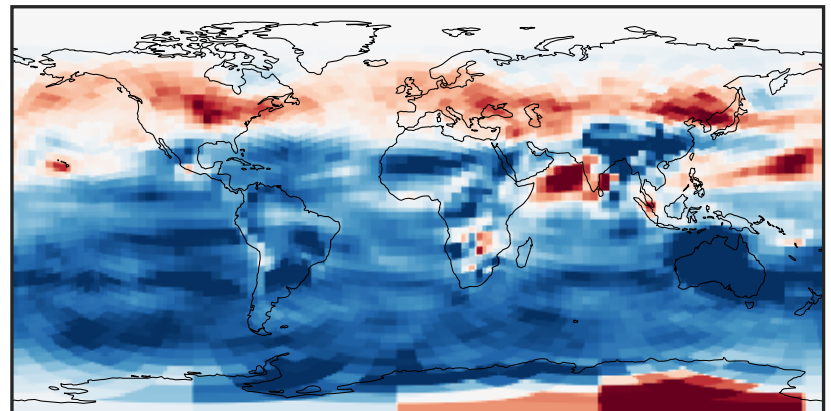
0.00000 0.00015 0.00030 0.00045
s-1

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



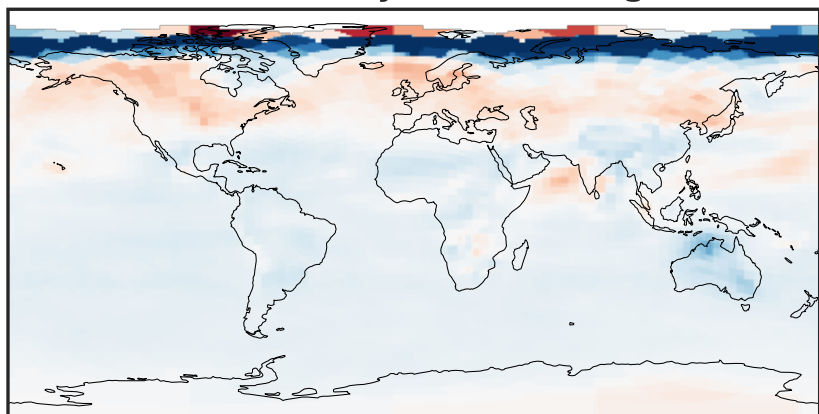
-5 0 5
s-1 1e-7

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



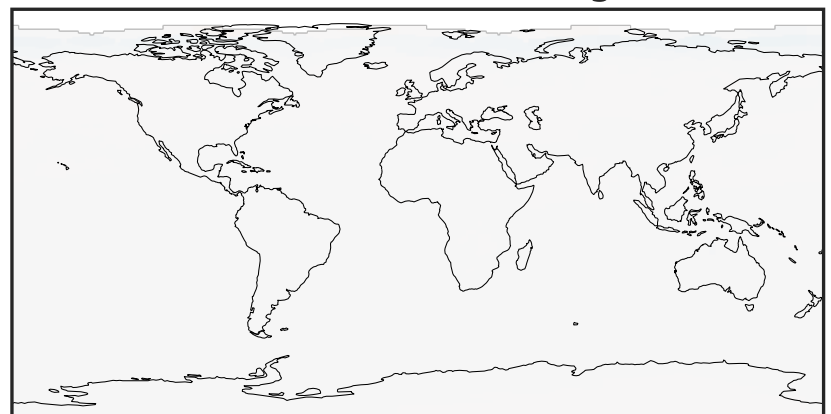
-1.5 0.0 1.5
s-1 1e-7

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98872 0.99436 1.00000 1.00570 1.01141
unitless

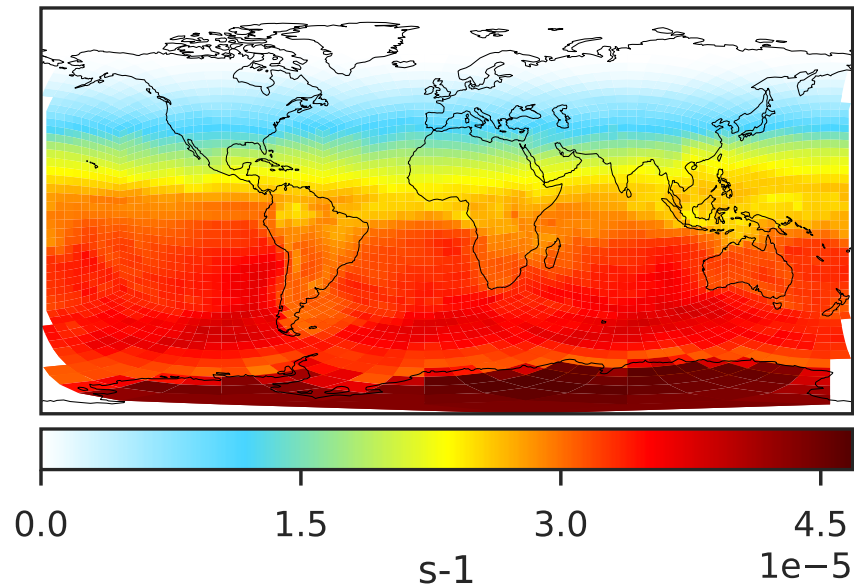
Ratio (1x1.25)
Dev/Ref, Fixed Range



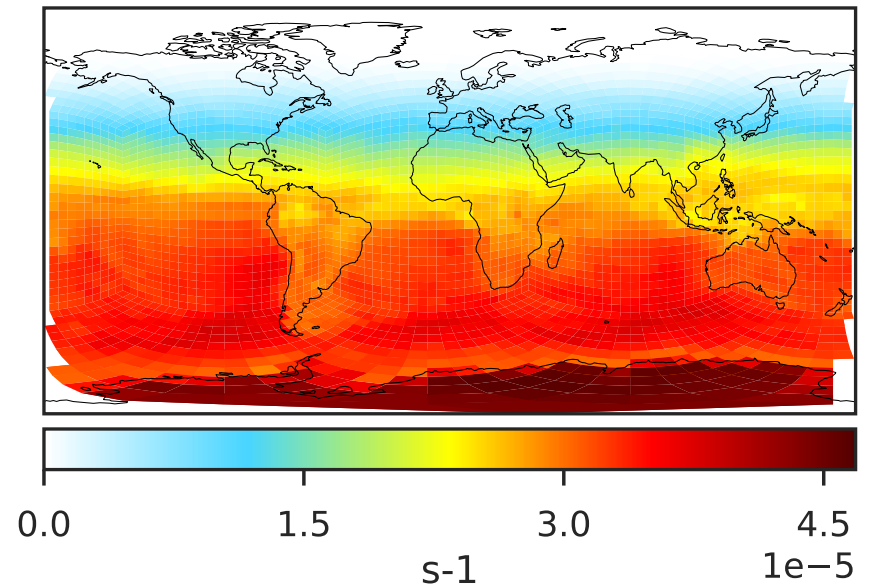
0.50 0.75 1.00 1.50 2.00
unitless

Jval_MVKHCB (Jan2019)

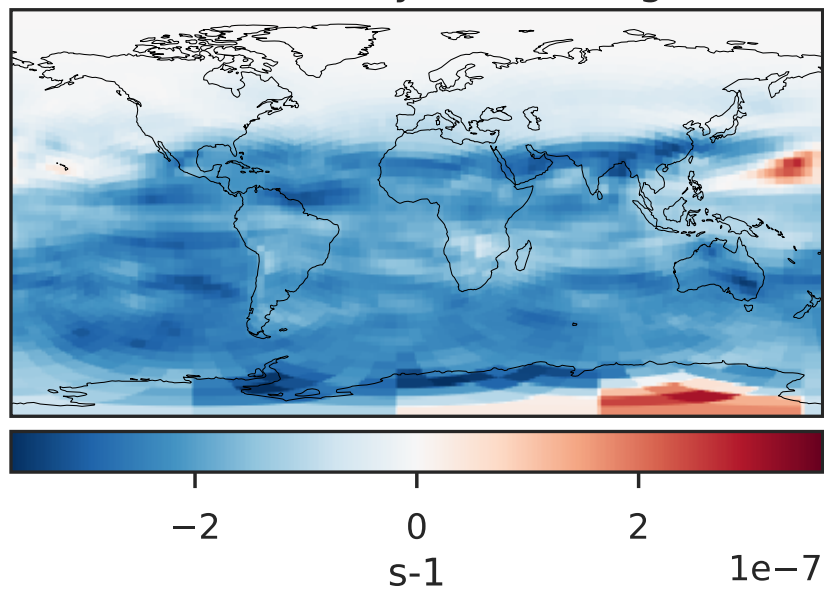
GCHP_14.0.0 (Ref)
c24



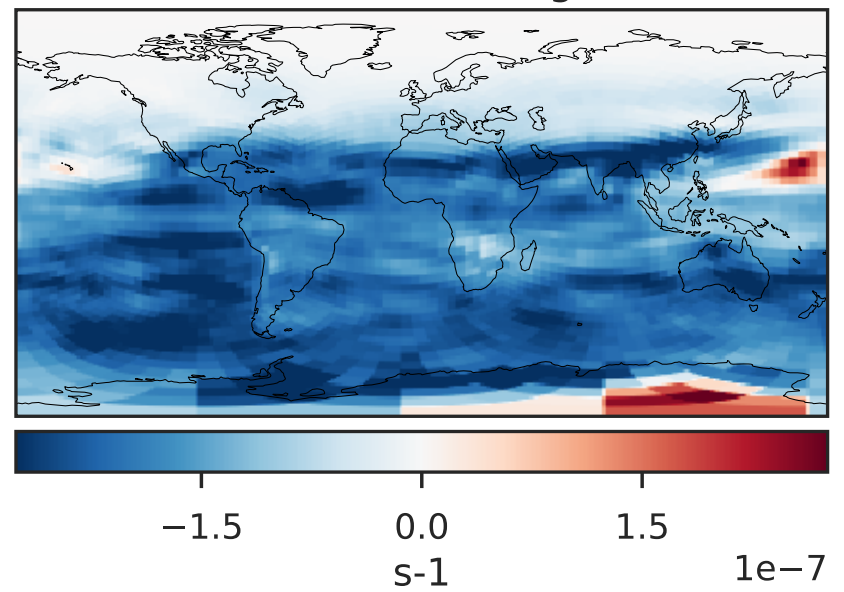
GCHP_14.2.0 (Dev)
c24



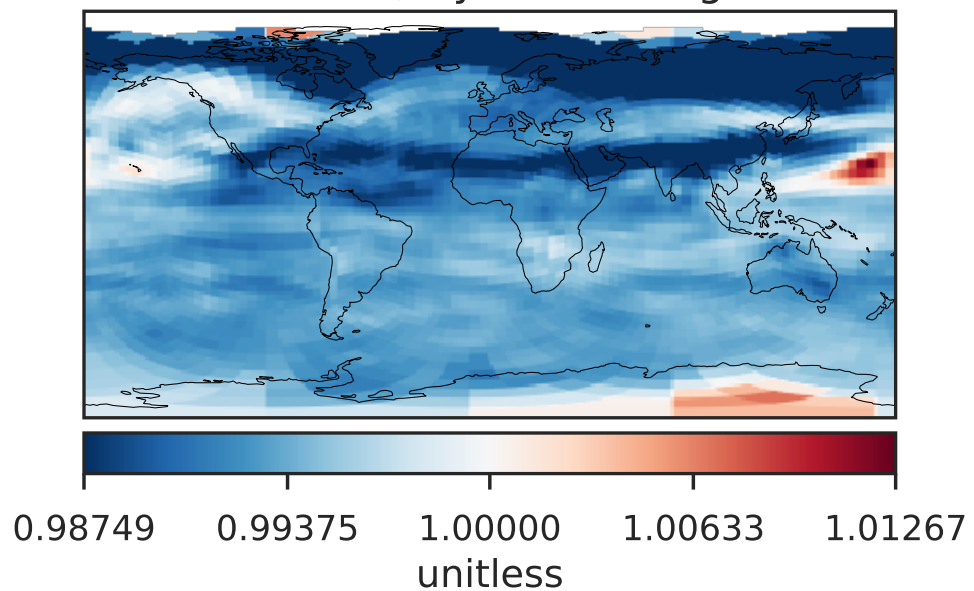
Difference (1x1.25)
Dev - Ref, Dynamic Range



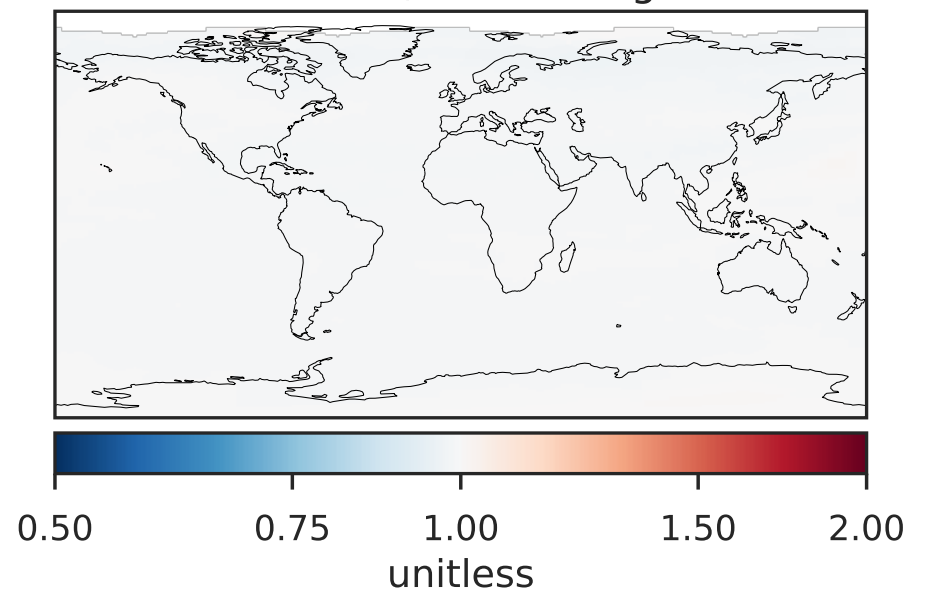
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

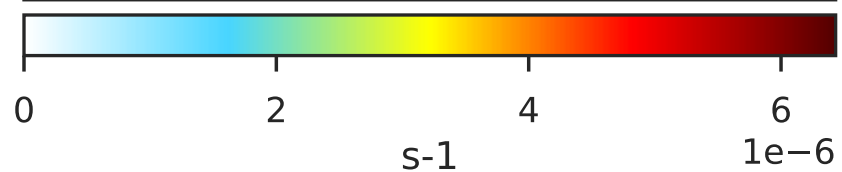
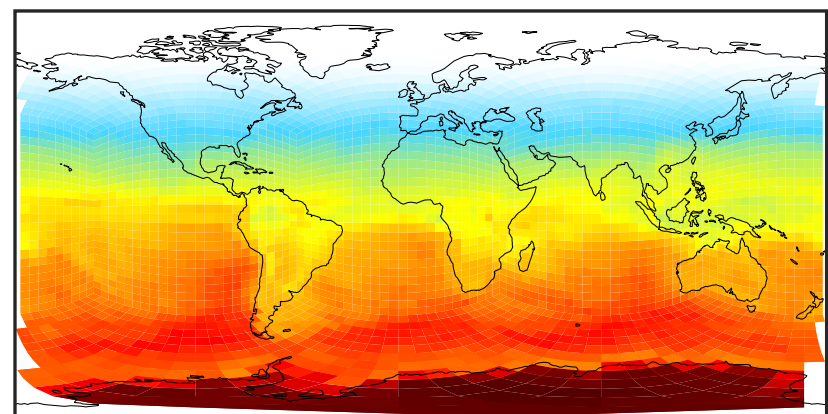


Ratio (1x1.25)
Dev/Ref, Fixed Range

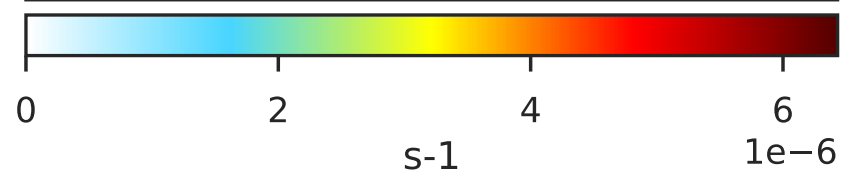
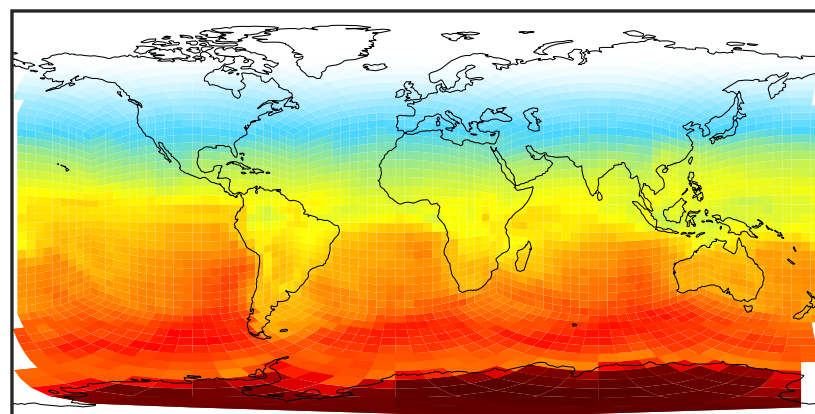


Jval_MVKHP (Jan2019)

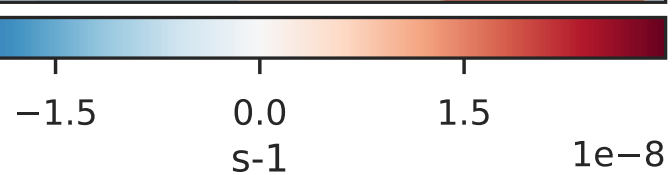
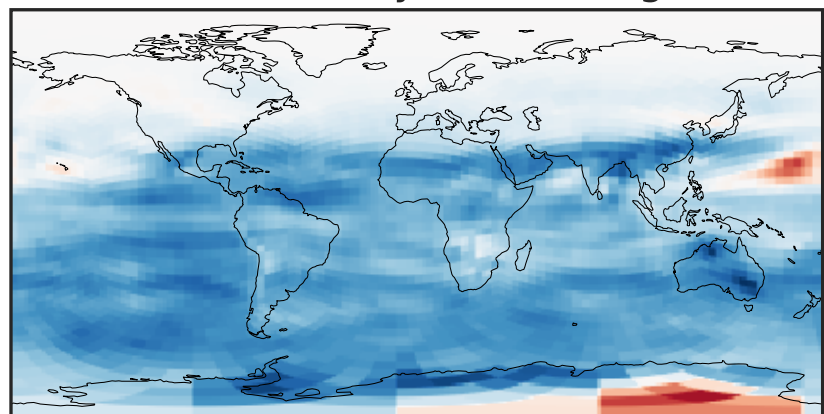
GCHP_14.0.0 (Ref)
c24



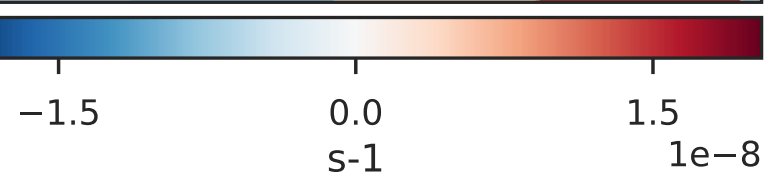
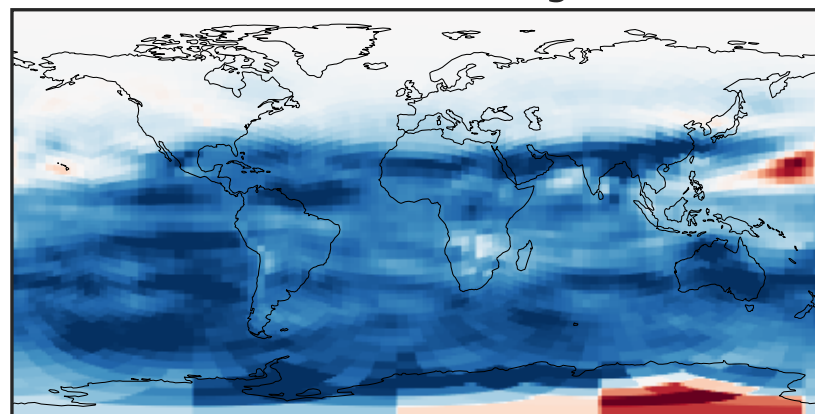
GCHP_14.2.0 (Dev)
c24



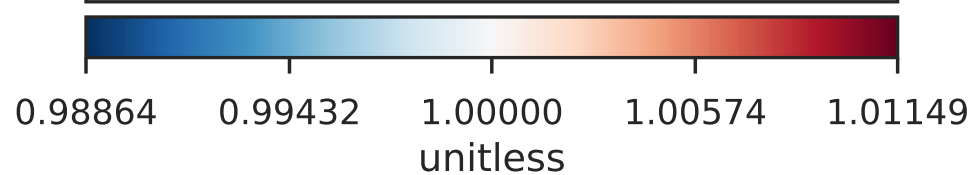
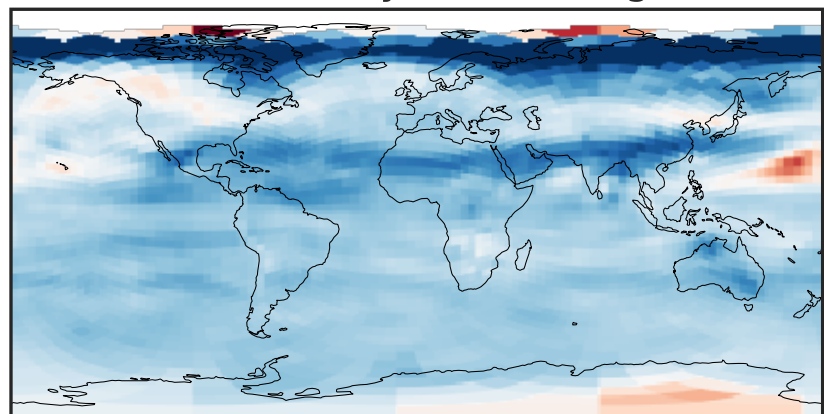
Difference (1x1.25)
Dev - Ref, Dynamic Range



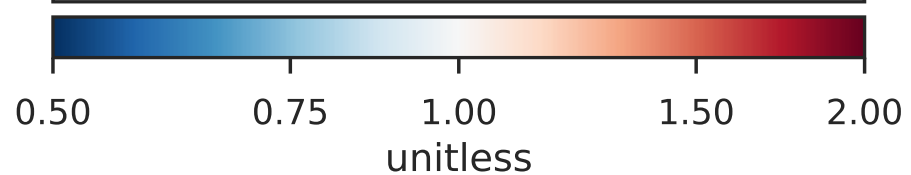
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

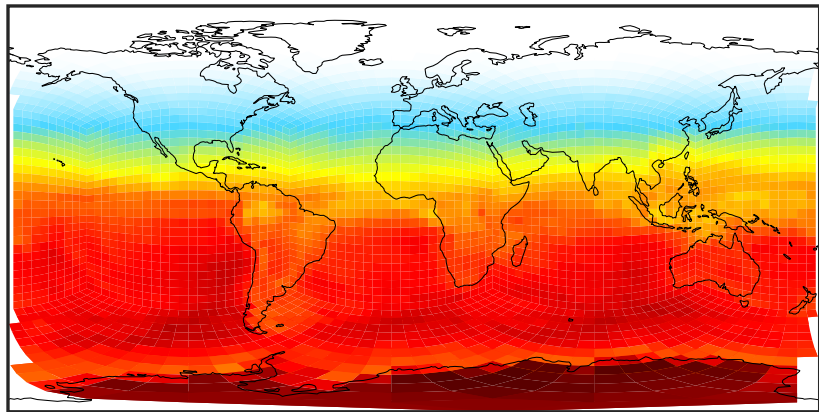


Ratio (1x1.25)
Dev/Ref, Fixed Range



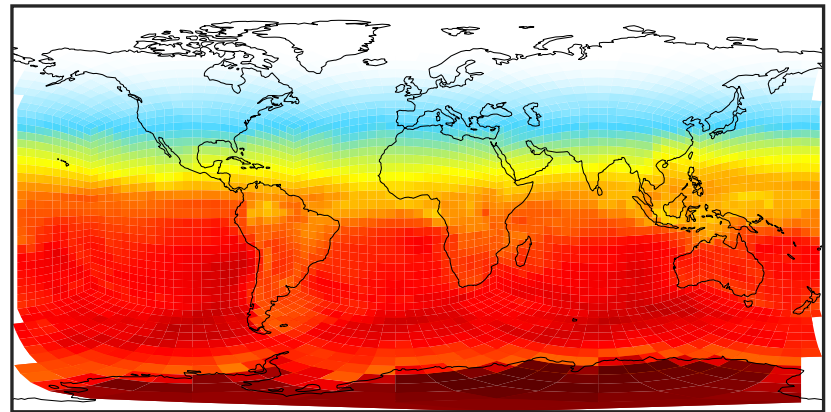
Jval_MVKN (Jan2019)

GCHP_14.0.0 (Ref)
c24



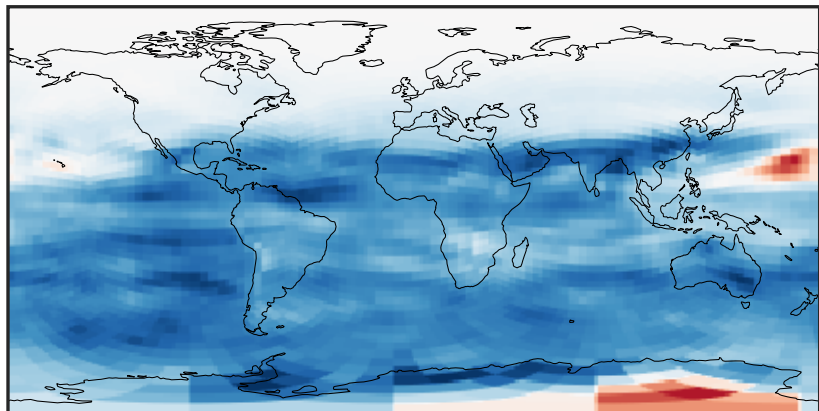
0.0 1.5 3.0
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



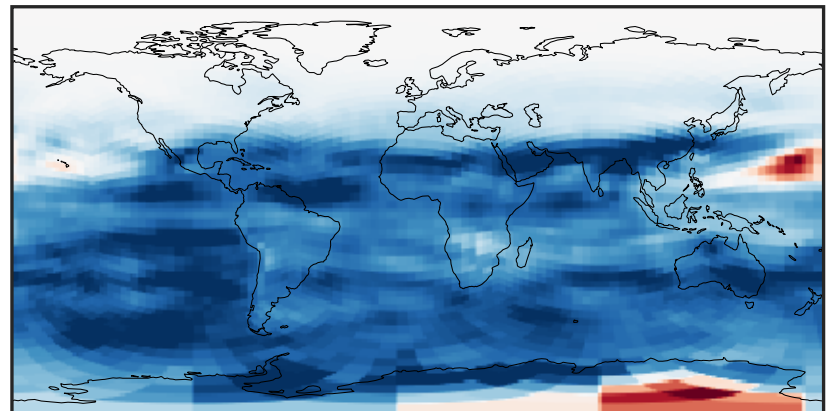
0.0 1.5 3.0
s-1 $1e-5$

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



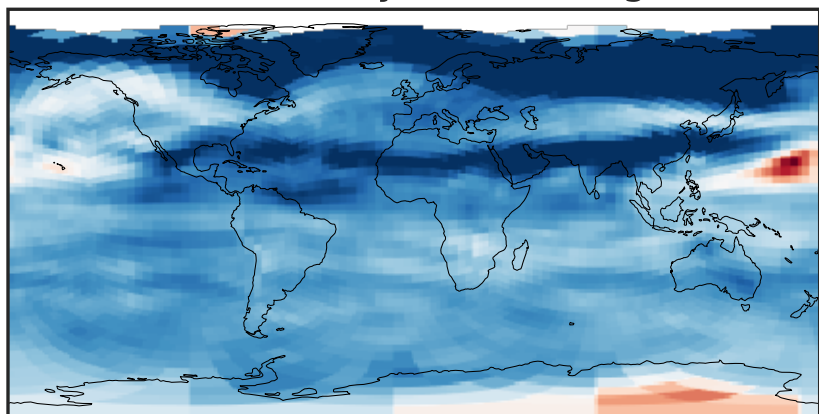
-2.5 0.0 2.5
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98495 0.99248 1.00000 1.00764 1.01528
unitless

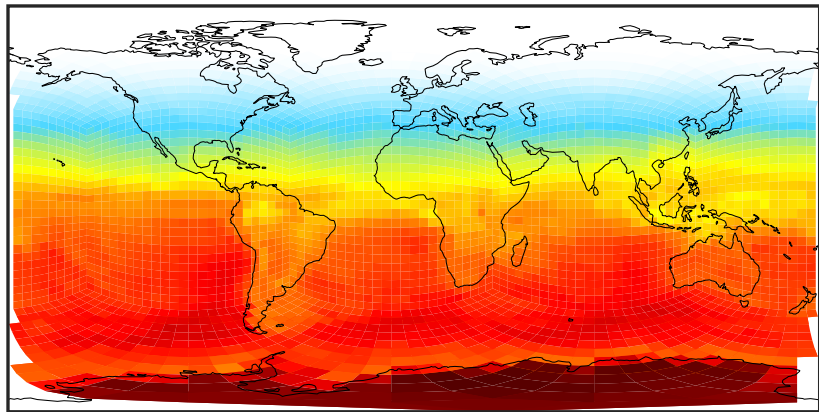
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

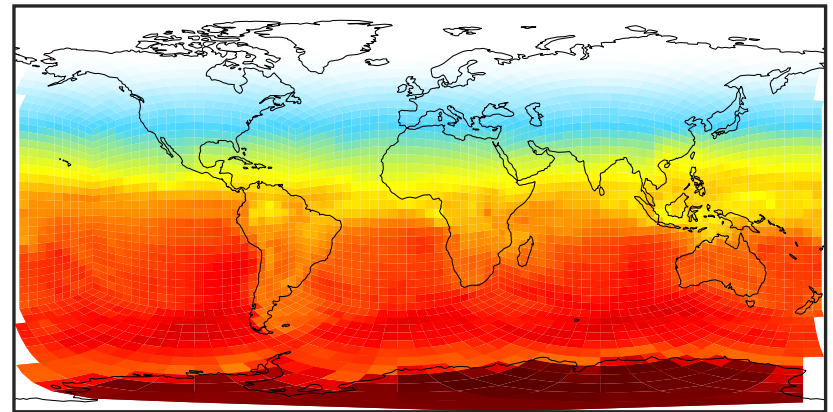
Jval_MVKPC (Jan2019)

GCHP_14.0.0 (Ref)
c24



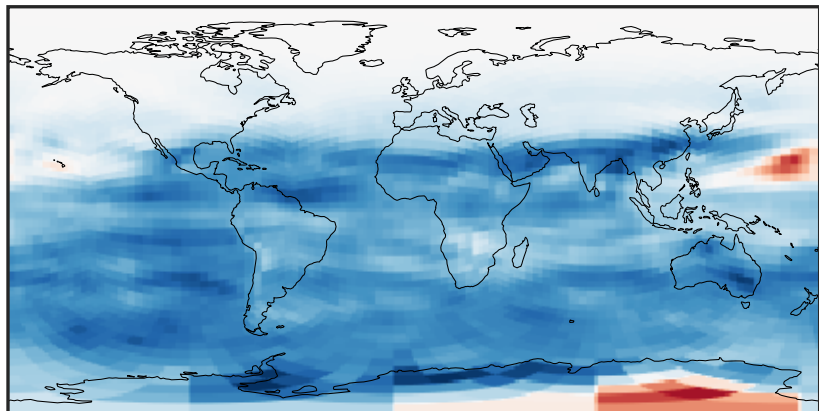
0.0 1.5 3.0 4.5
s-1 $1e-5$

GCHP_14.2.0 (Dev)
c24



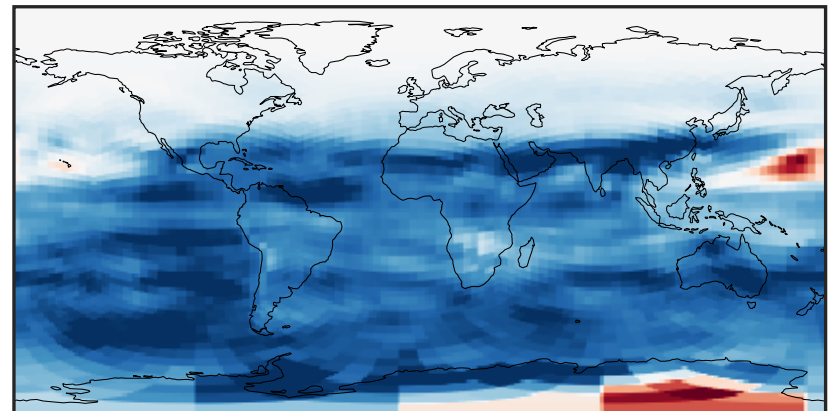
0.0 1.5 3.0 4.5
s-1 $1e-5$

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



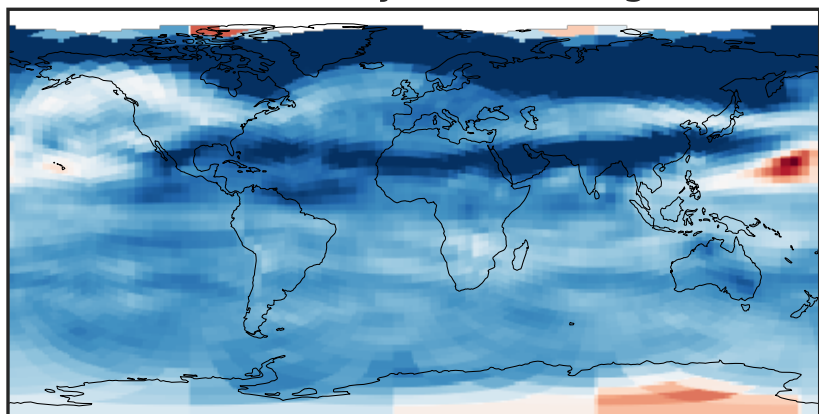
-2 0 2
s-1 $1e-7$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98801 0.99400 1.00000 1.00607 1.01214
unitless

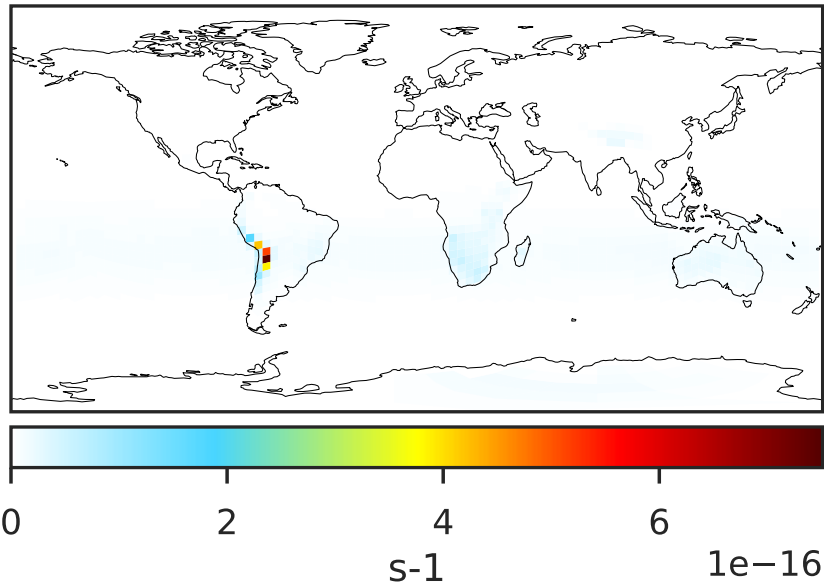
Ratio (1x1.25)
Dev/Ref, Fixed Range



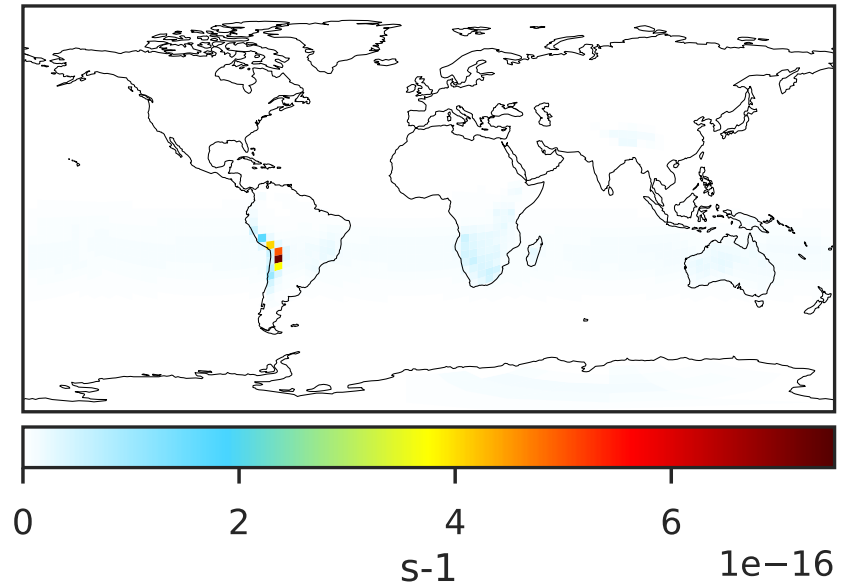
0.50 0.75 1.00 1.50 2.00
unitless

Jval_N2O (Jan2019)

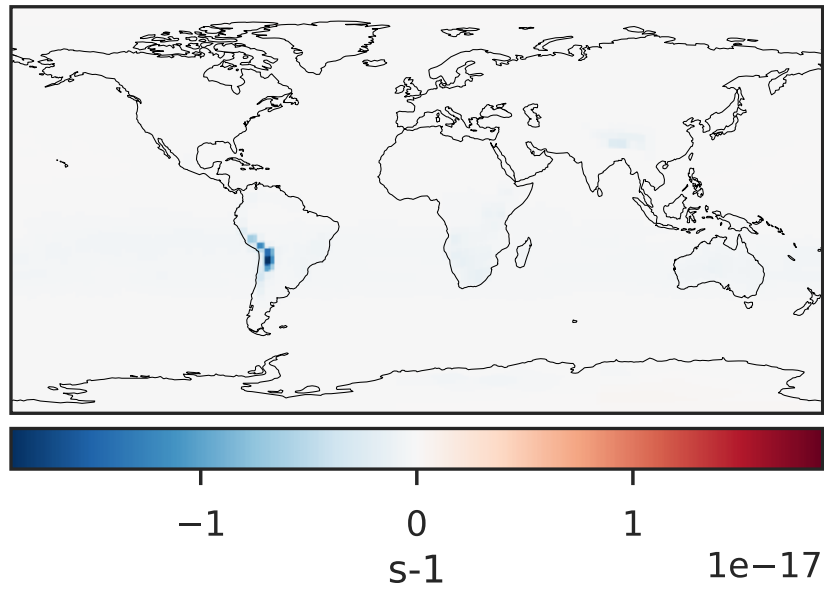
GCHP_14.0.0 (Ref)
c24



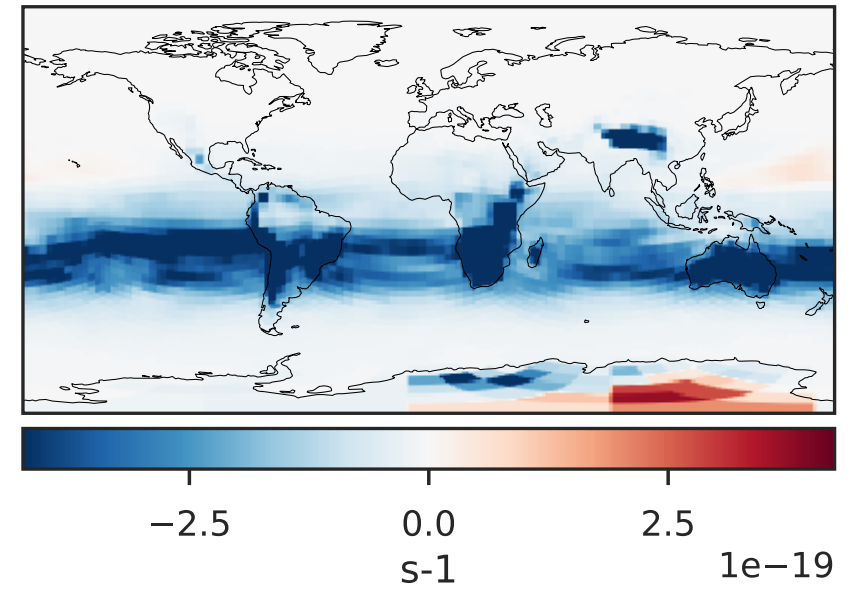
GCHP_14.2.0 (Dev)
c24



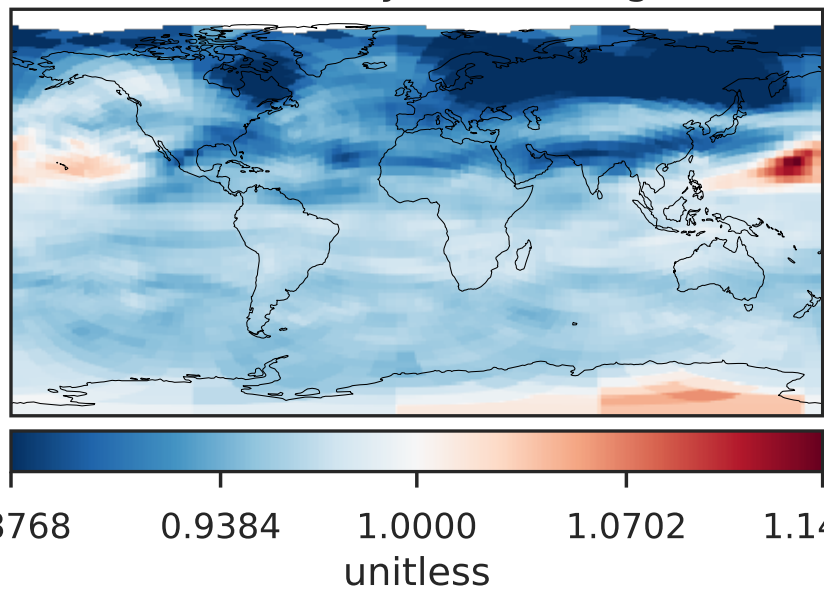
Difference (1x1.25)
Dev - Ref, Dynamic Range



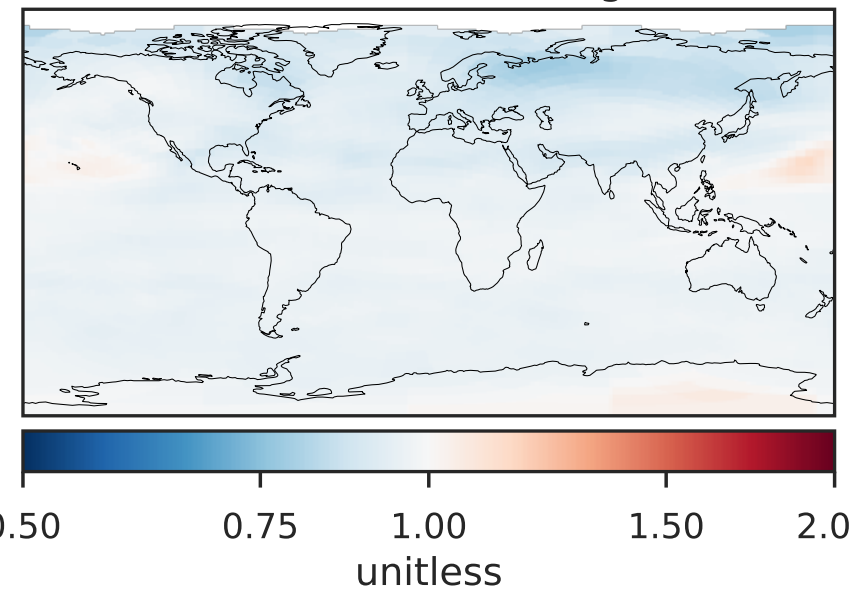
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

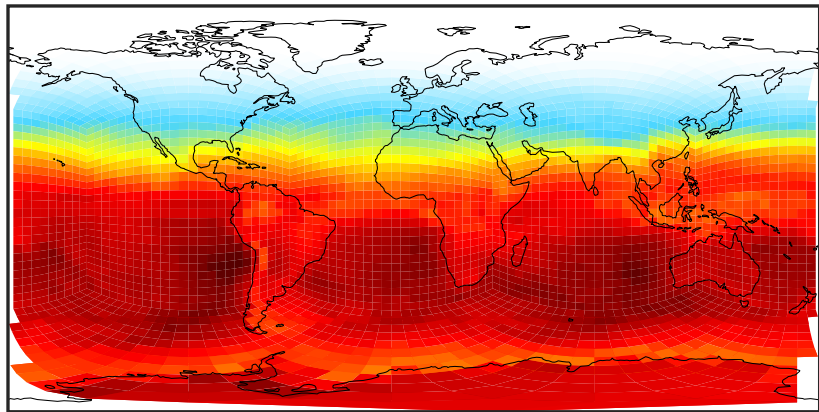


Ratio (1x1.25)
Dev/Ref, Fixed Range



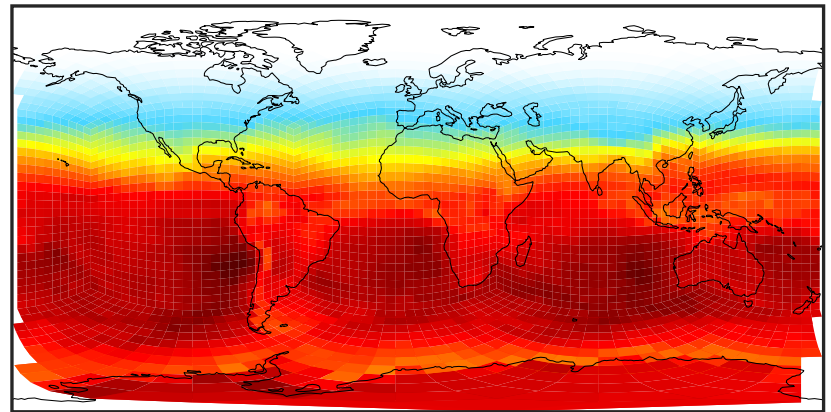
Jval_N2O5 (Jan2019)

GCHP_14.0.0 (Ref)
c24



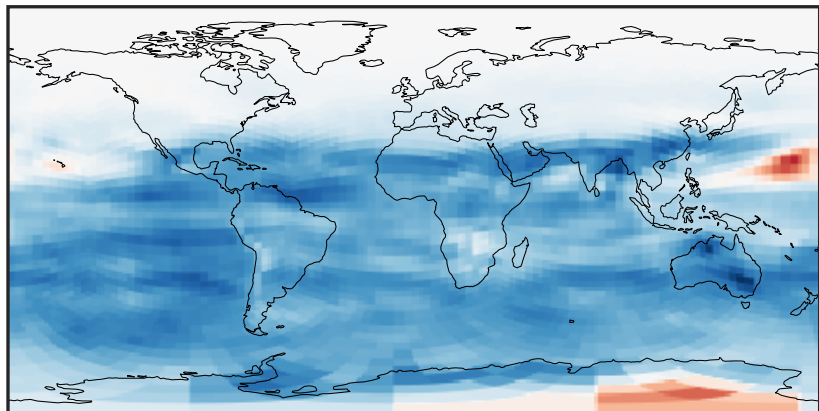
0.0 0.8 1.6 2.4
s-1 10^{-5}

GCHP_14.2.0 (Dev)
c24



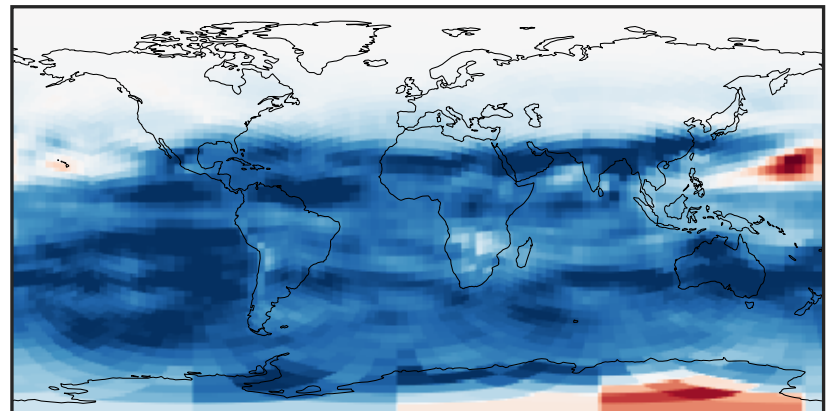
0.0 0.8 1.6 2.4
s-1 10^{-5}

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



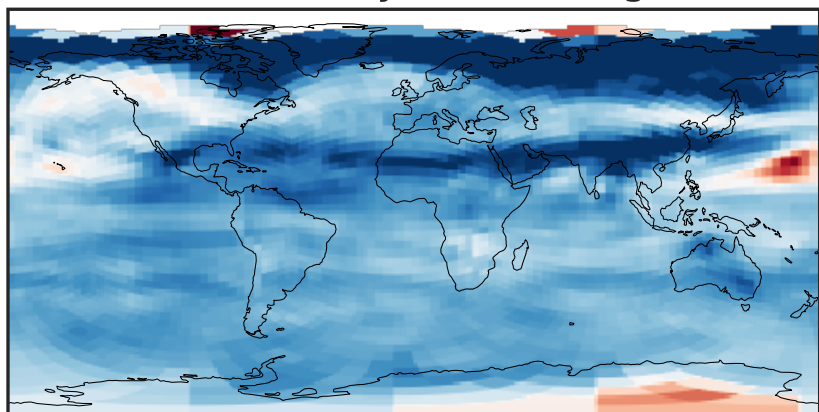
-1.5 0.0 1.5
s-1 10^{-7}

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99033 0.99517 1.00000 1.00488 1.00976
unitless

Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

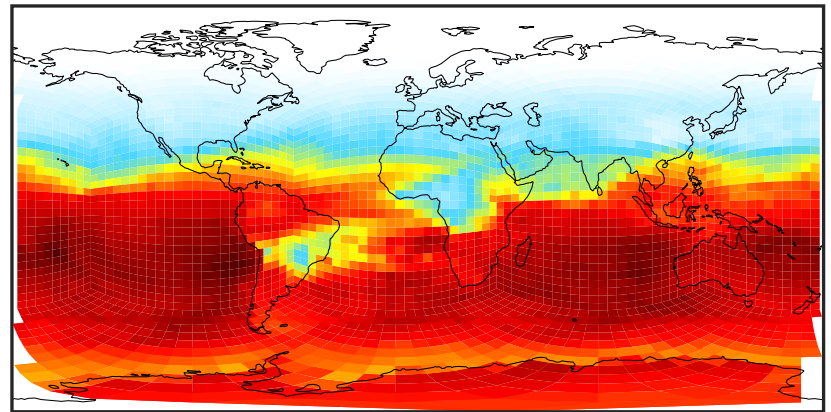
Jval_NIT (Jan2019)

GCHP_14.0.0 (Ref)
c24



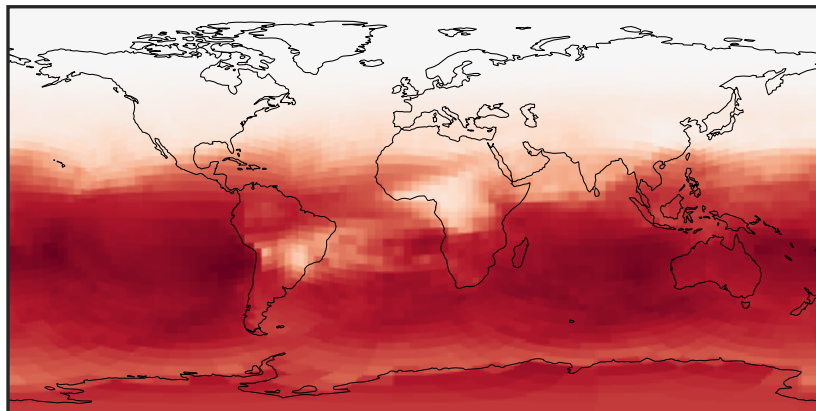
Zero throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



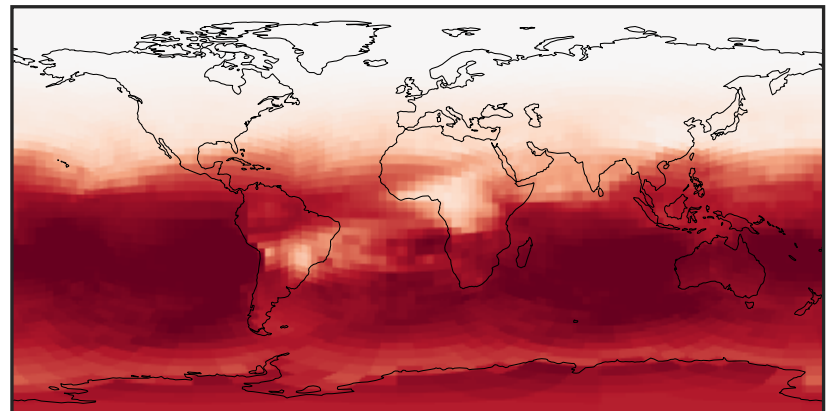
0.0 1.5 3.0 4.5
s-1 1e-5

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



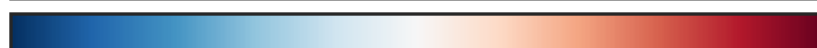
-2.5 0.0 2.5
s-1 1e-5

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



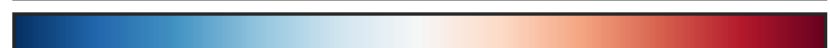
-2.5 0.0 2.5
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughout domain
unitless

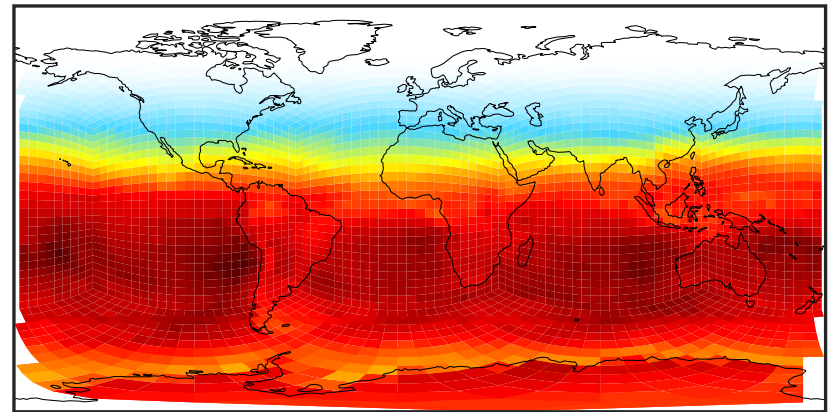
Jval_NITs (Jan2019)

GCHP_14.0.0 (Ref)
c24



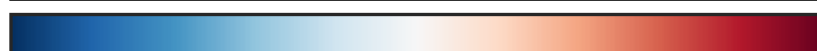
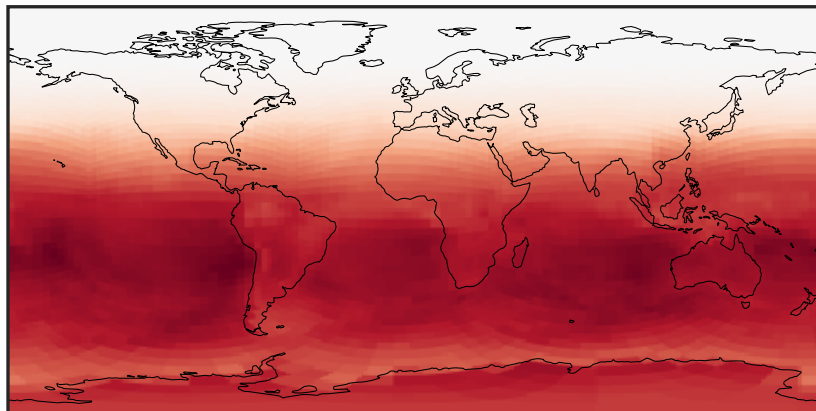
Zero throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



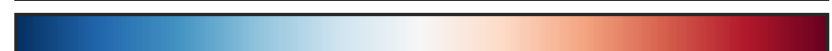
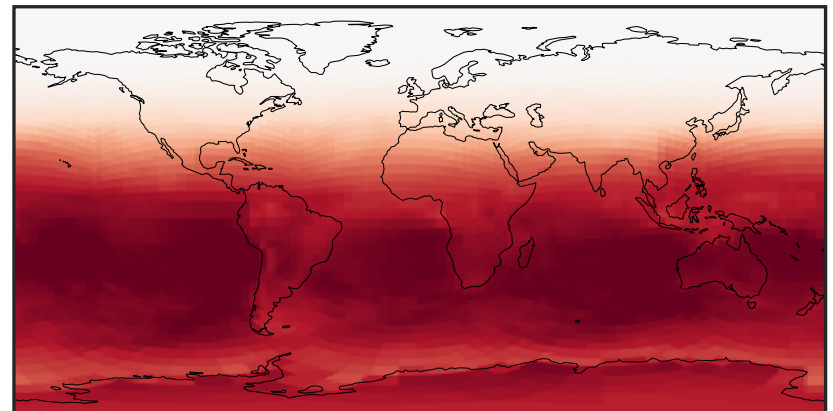
0.0 1.5 3.0 4.5
s-1 1e-5

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



-2.5 0.0 2.5
s-1 1e-5

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



-2.5 0.0 2.5
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

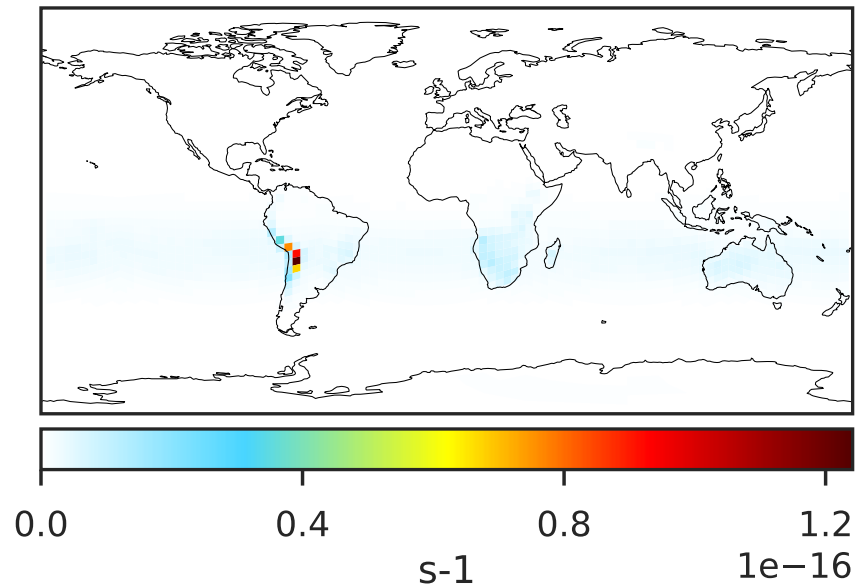
Ratio (1x1.25)
Dev/Ref, Fixed Range



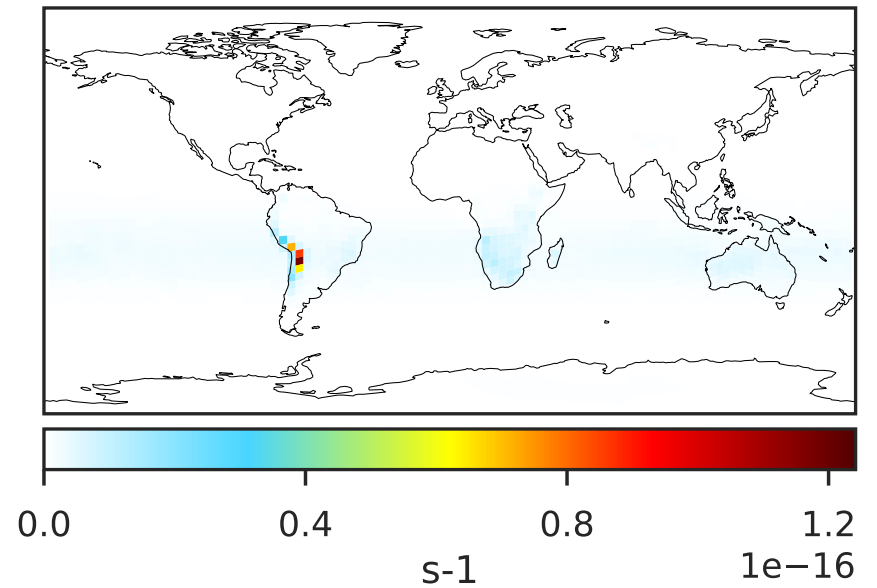
Undefined throughout domain
unitless

Jval_NO (Jan2019)

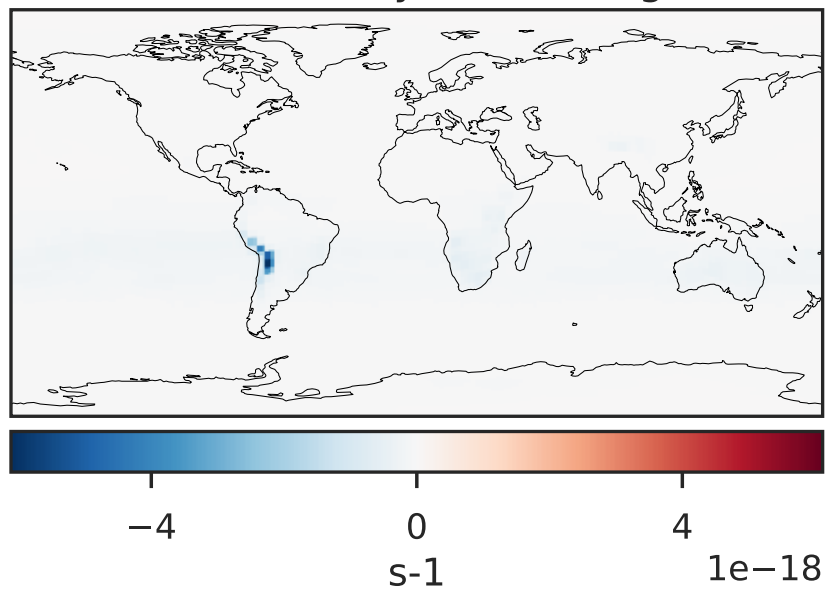
GCHP_14.0.0 (Ref)
c24



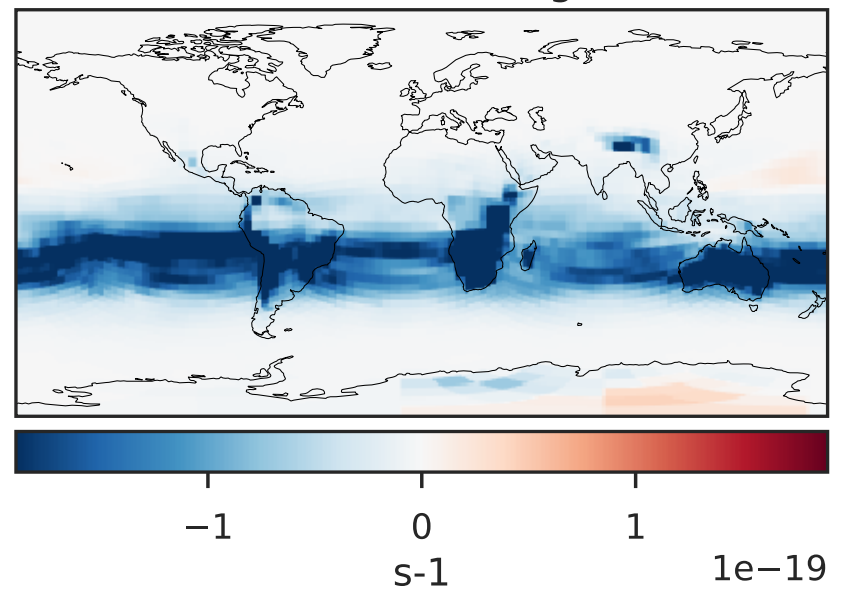
GCHP_14.2.0 (Dev)
c24



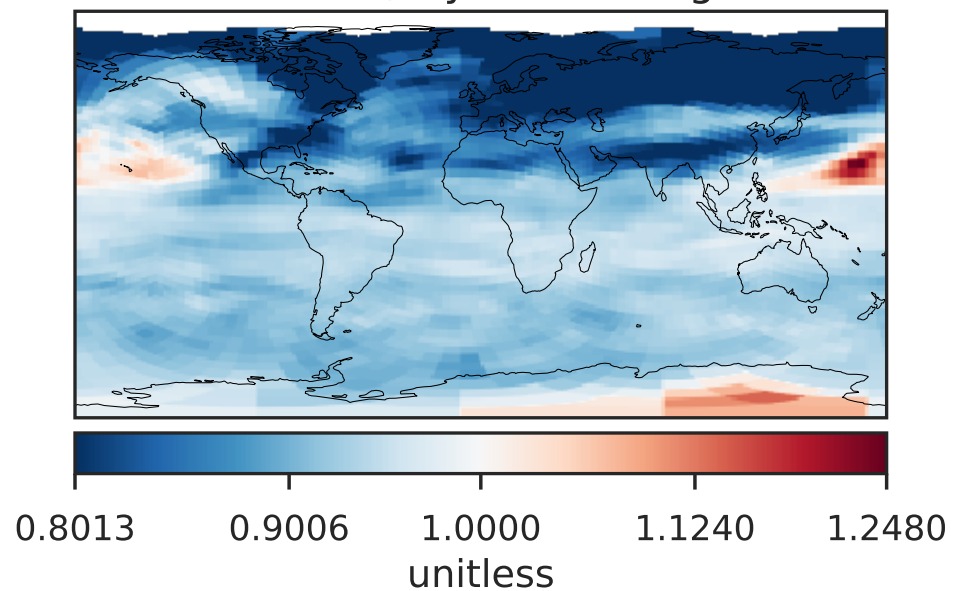
Difference (1x1.25)
Dev - Ref, Dynamic Range



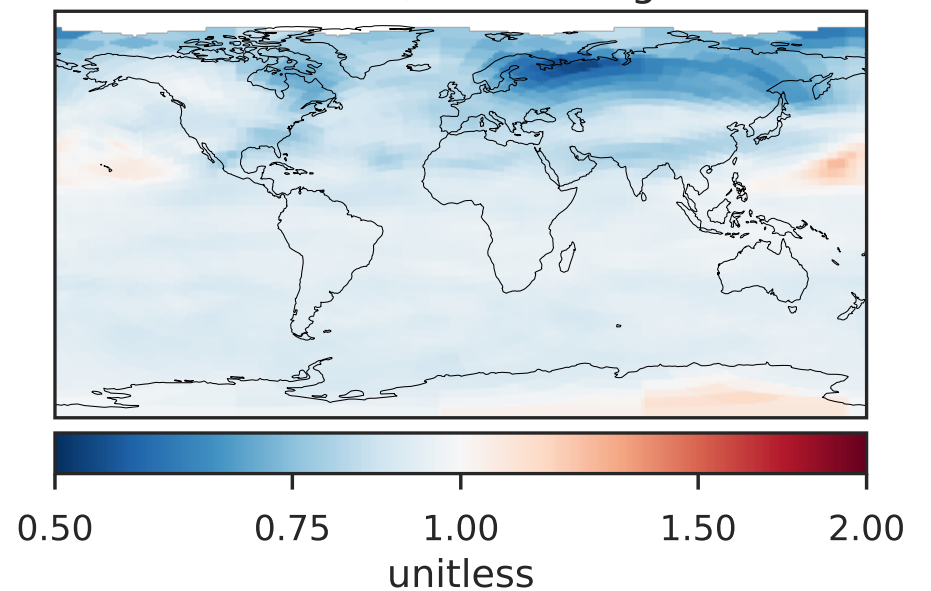
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

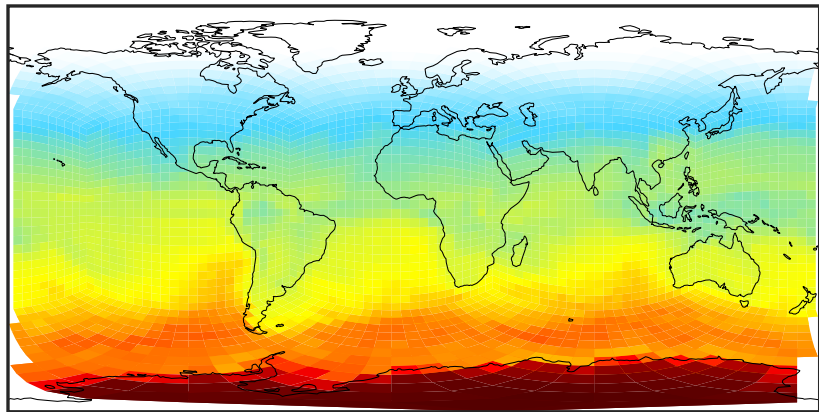


Ratio (1x1.25)
Dev/Ref, Fixed Range



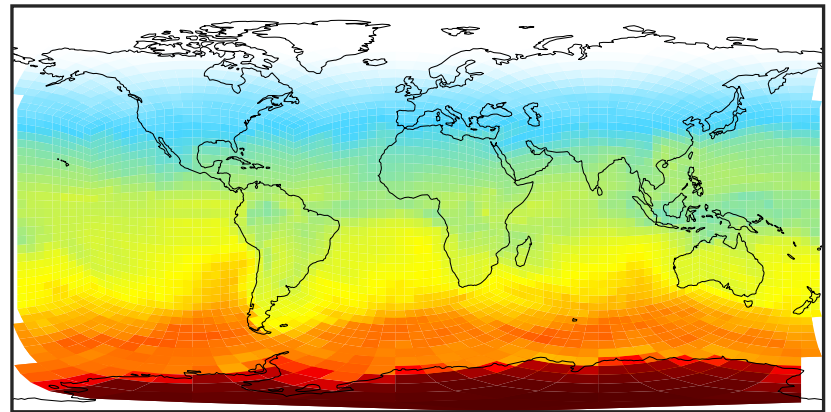
Jval_NO2 (Jan2019)

GCHP_14.0.0 (Ref)
c24



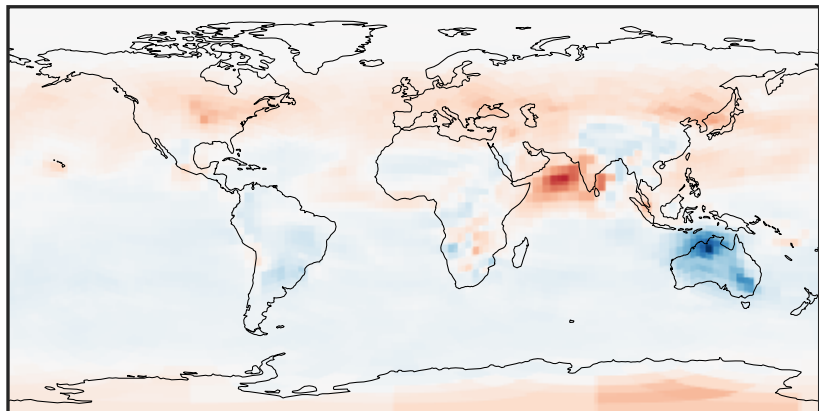
0.000 0.004 0.008 0.012
s-1

GCHP_14.2.0 (Dev)
c24



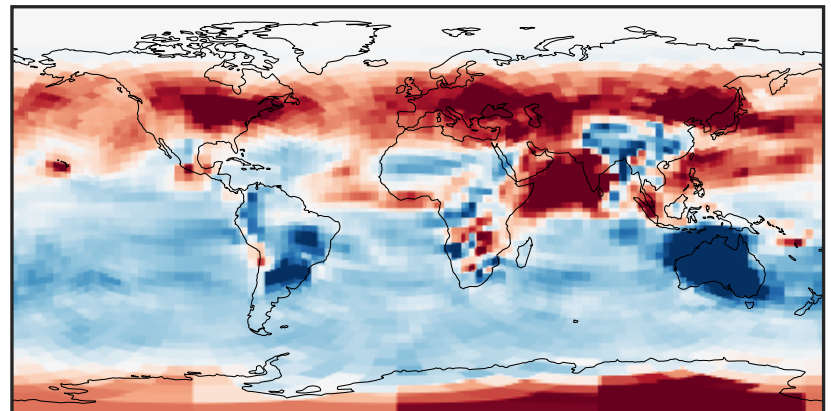
0.000 0.004 0.008 0.012
s-1

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



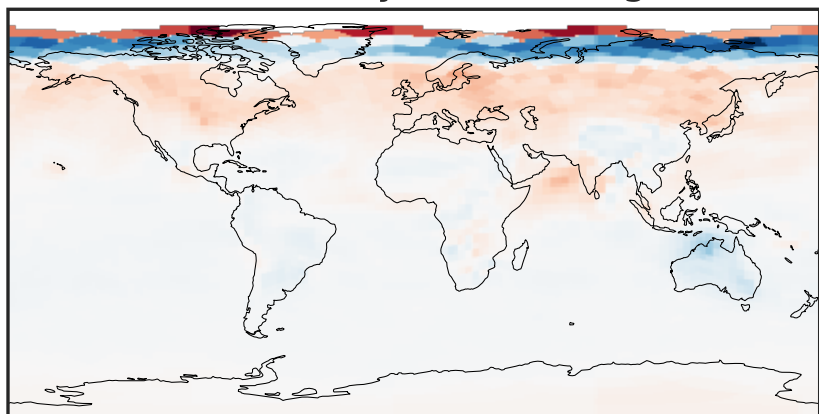
-1.5 0.0 1.5
s-1 1e-5

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



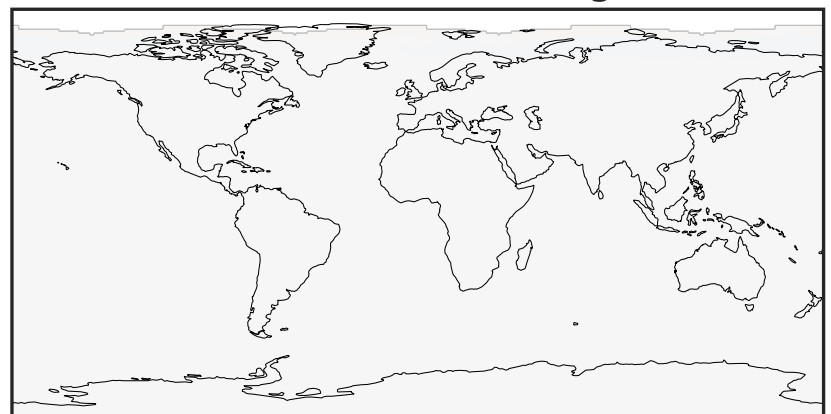
-3 0 3
s-1 1e-6

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98563 0.99282 1.00000 1.00729 1.01458
unitless

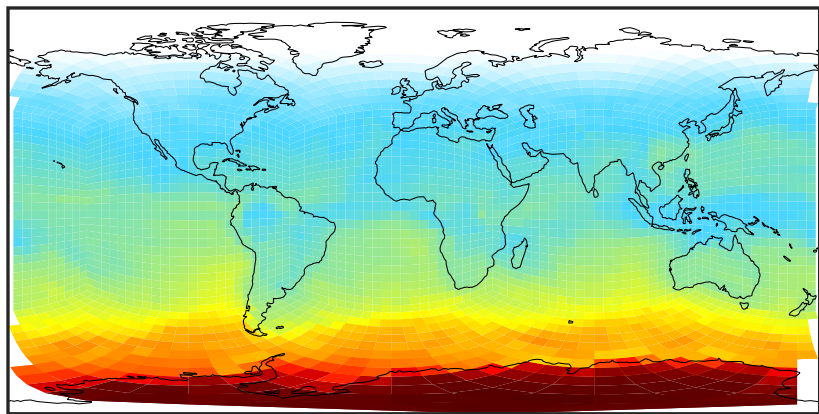
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

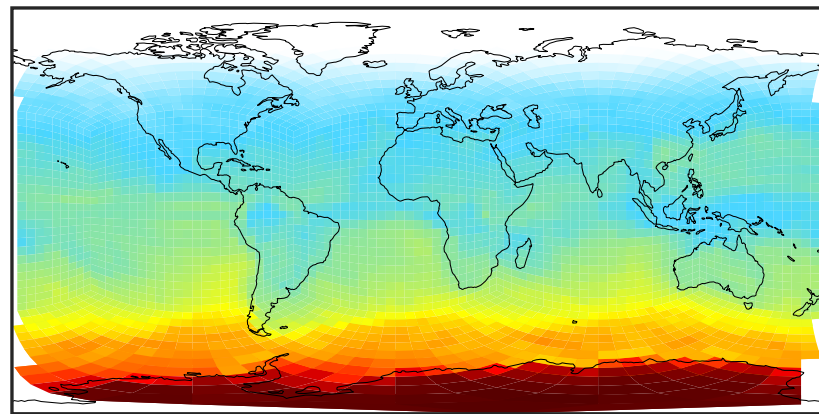
Jval_NO3 (Jan2019)

GCHP_14.0.0 (Ref)
c24



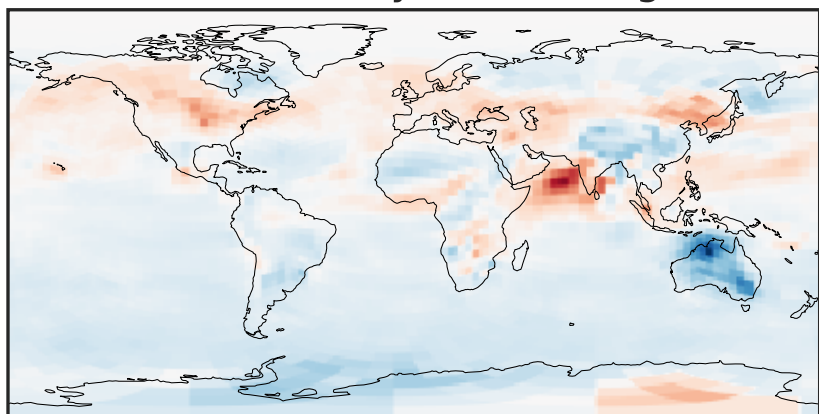
0.0000 0.0909 0.1818 0.2727 0.3635
s-1

GCHP_14.2.0 (Dev)
c24



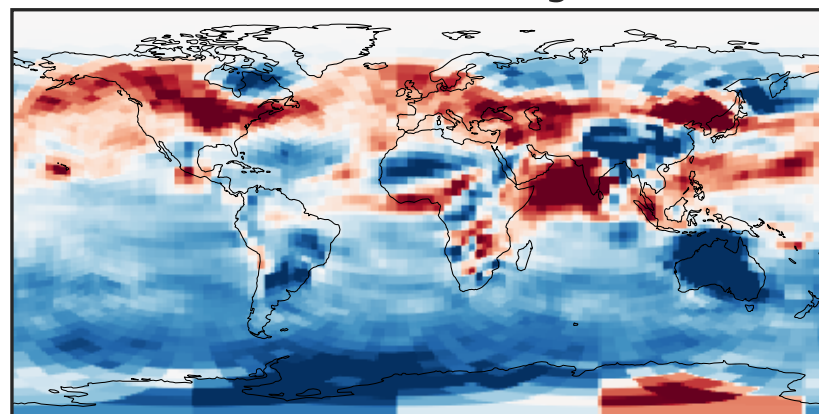
0.0000 0.0909 0.1818 0.2727 0.3635
s-1

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



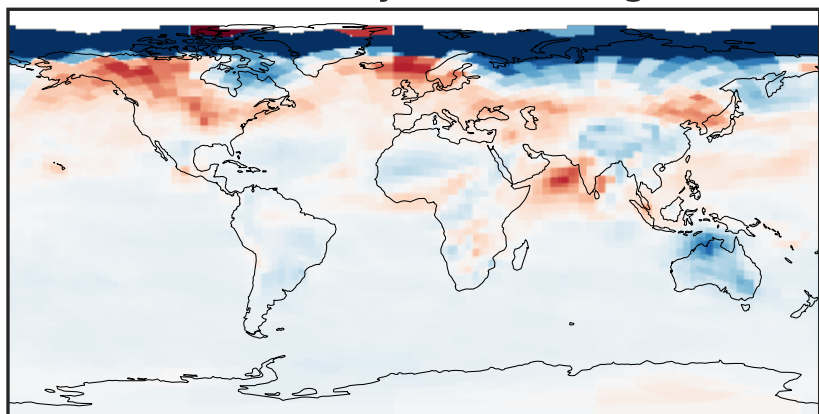
-0.0003 0.0000 0.0003
s-1

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



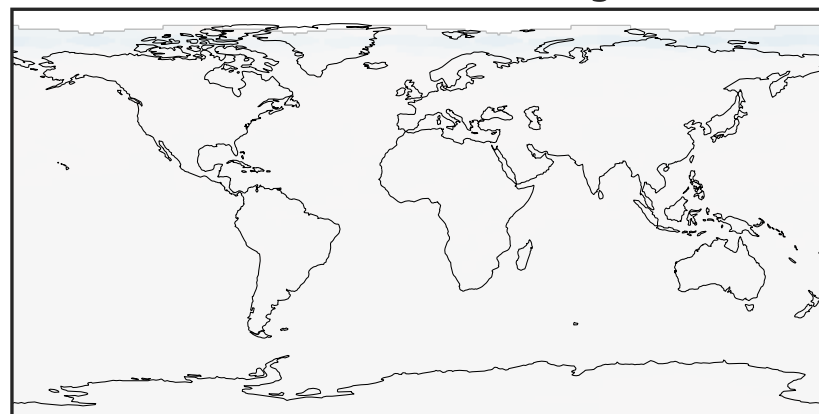
-8 0 8
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99429 0.99714 1.00000 1.00287 1.00575
unitless

Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

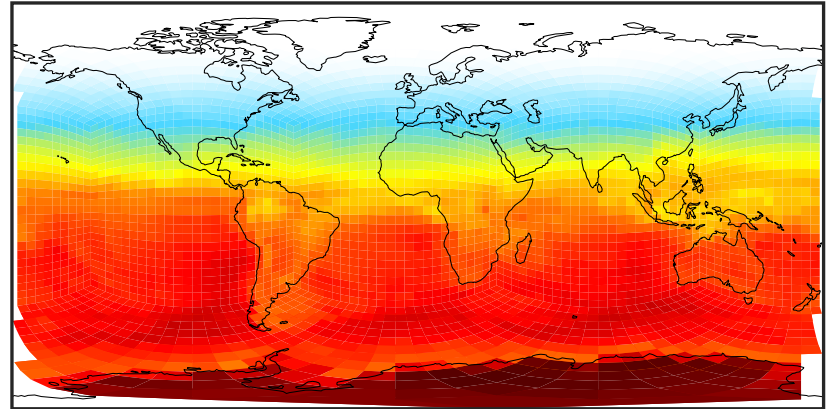
Jval_NPHEN (Jan2019)

GCHP_14.0.0 (Ref)
c24



Undefined throughout domain
s-1

GCHP_14.2.0 (Dev)
c24



0 1 2 3
s-1 1e-5

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



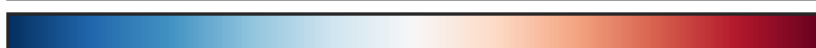
Undefined throughout domain
s-1

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



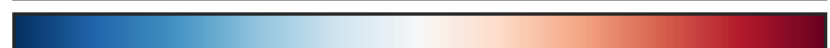
Undefined throughout domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

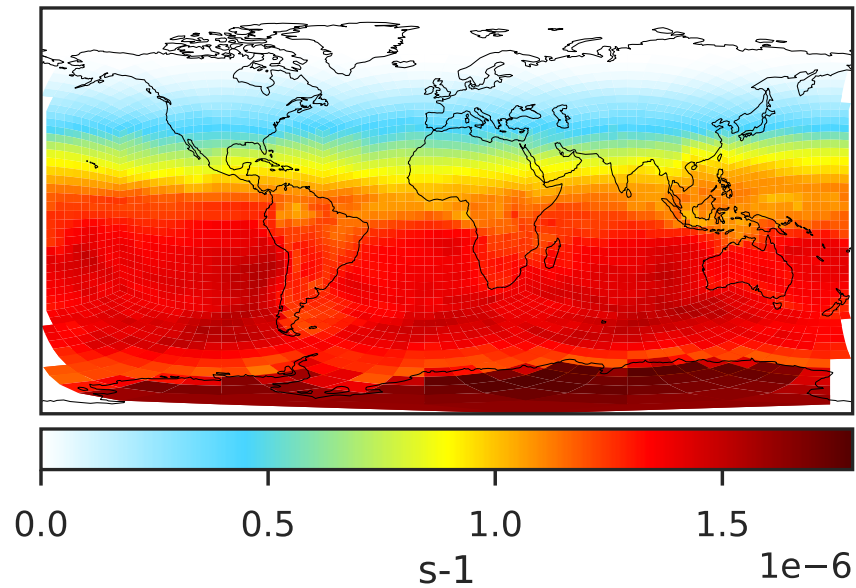
Ratio (1x1.25)
Dev/Ref, Fixed Range



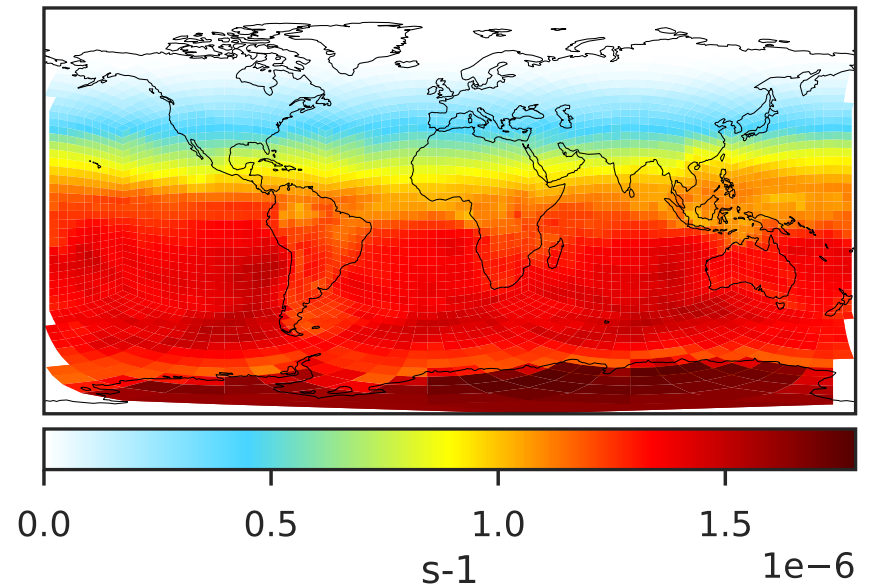
Undefined throughout domain
unitless

Jval_NPRNO3 (Jan2019)

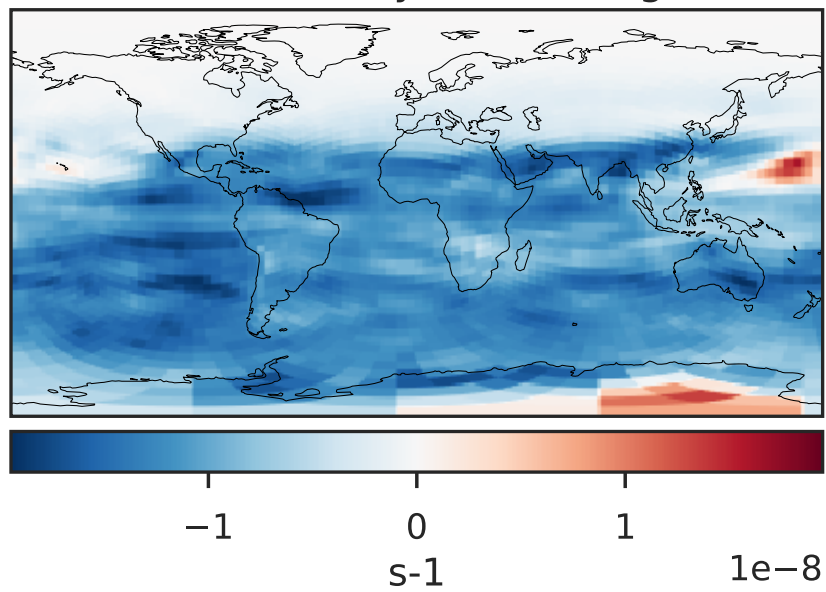
GCHP_14.0.0 (Ref)
c24



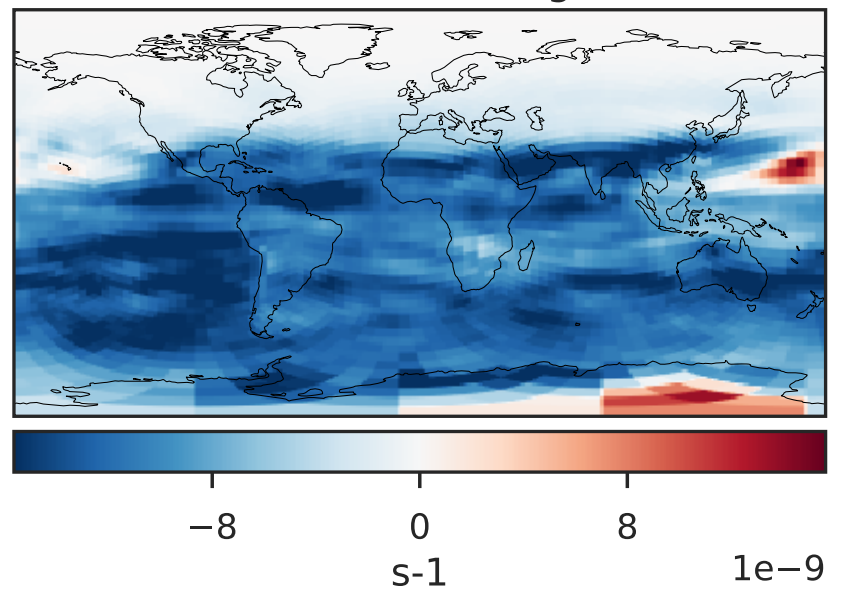
GCHP_14.2.0 (Dev)
c24



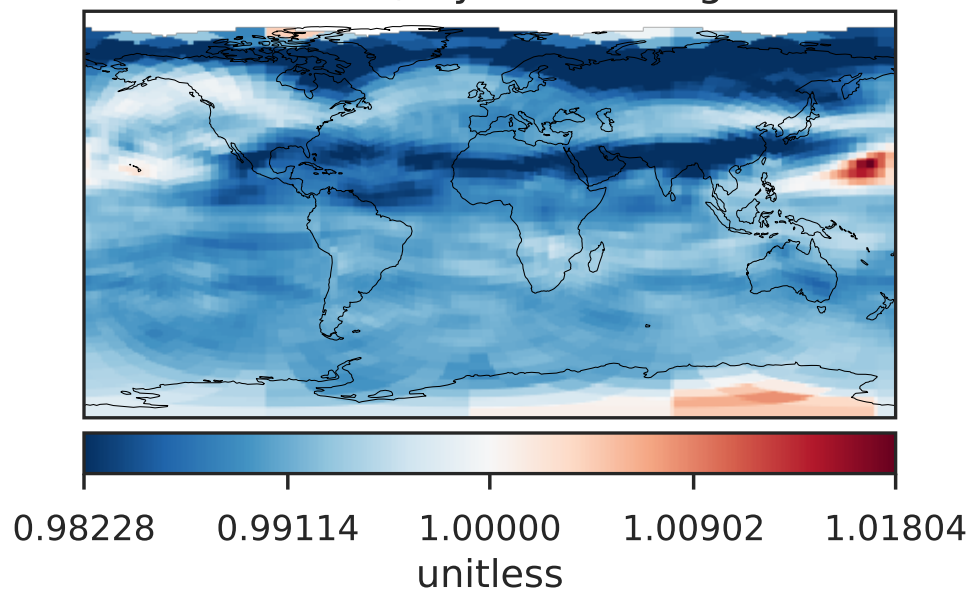
Difference (1x1.25)
Dev - Ref, Dynamic Range



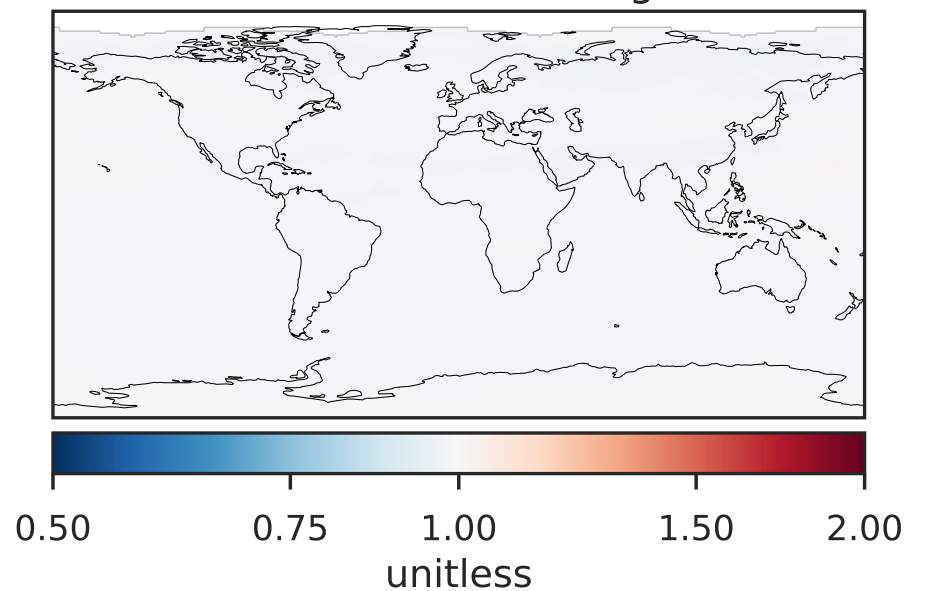
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

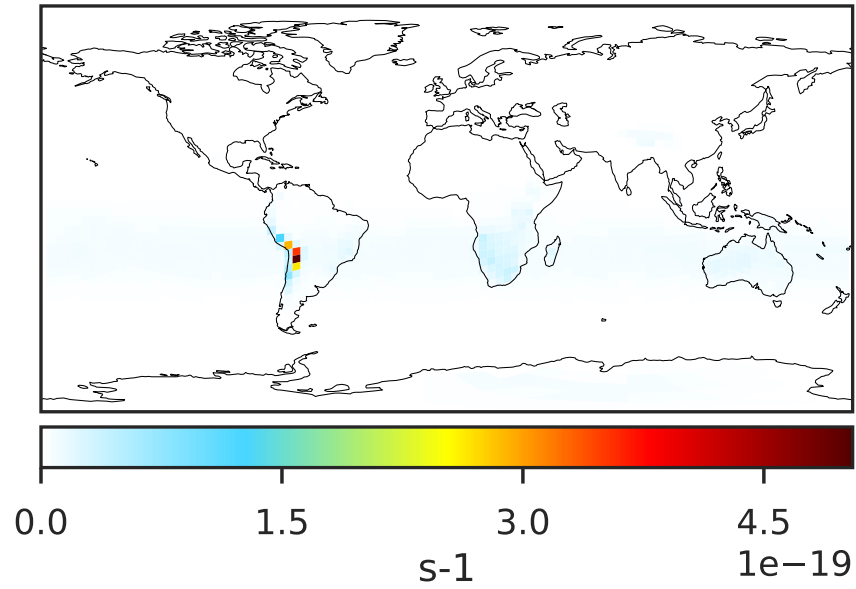


Ratio (1x1.25)
Dev/Ref, Fixed Range

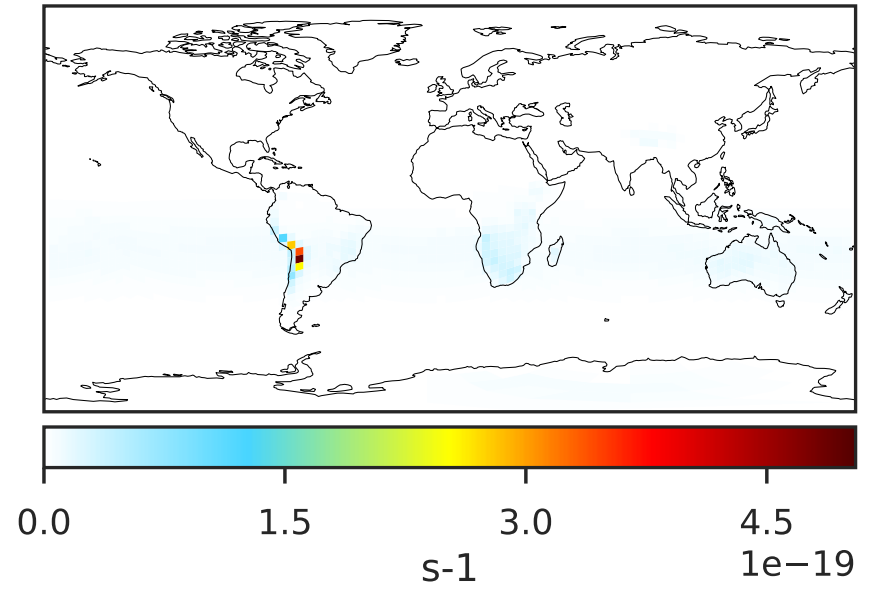


Jval_O2 (Jan2019)

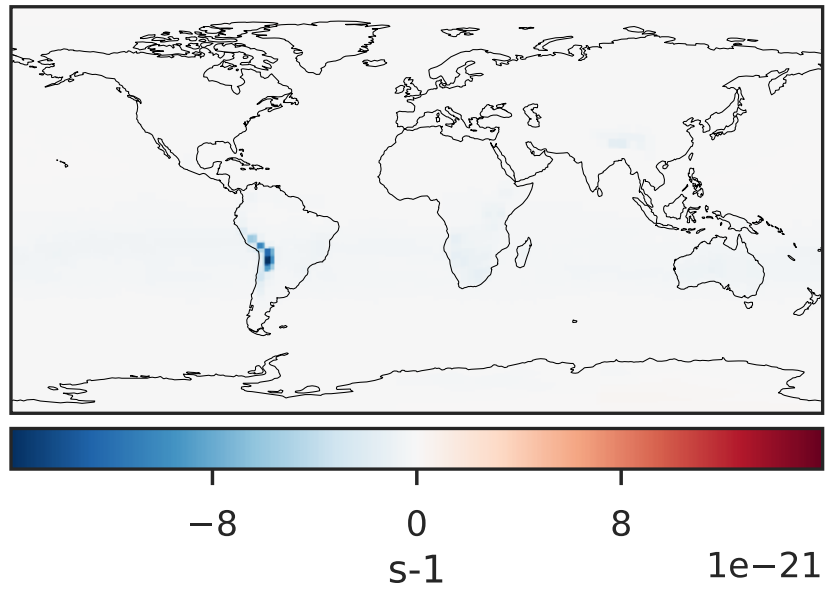
GCHP_14.0.0 (Ref)
c24



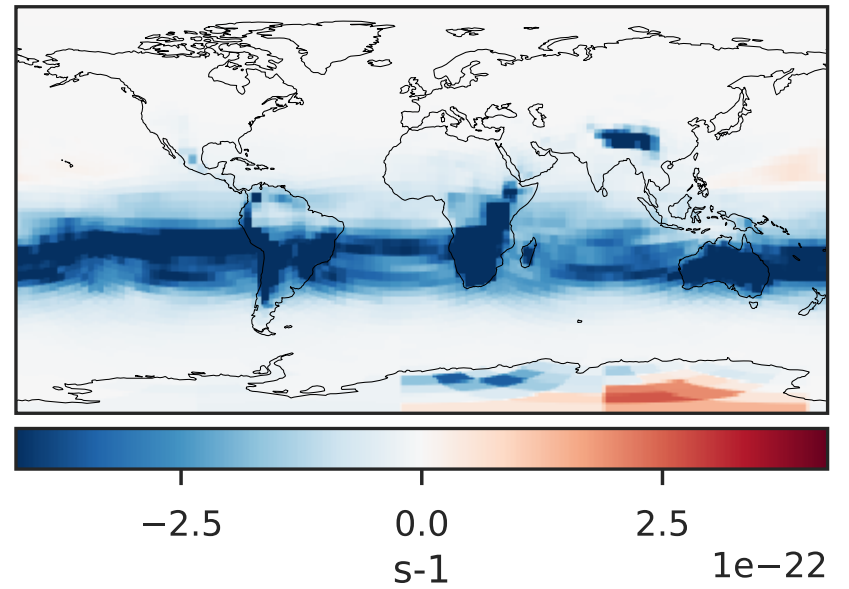
GCHP_14.2.0 (Dev)
c24



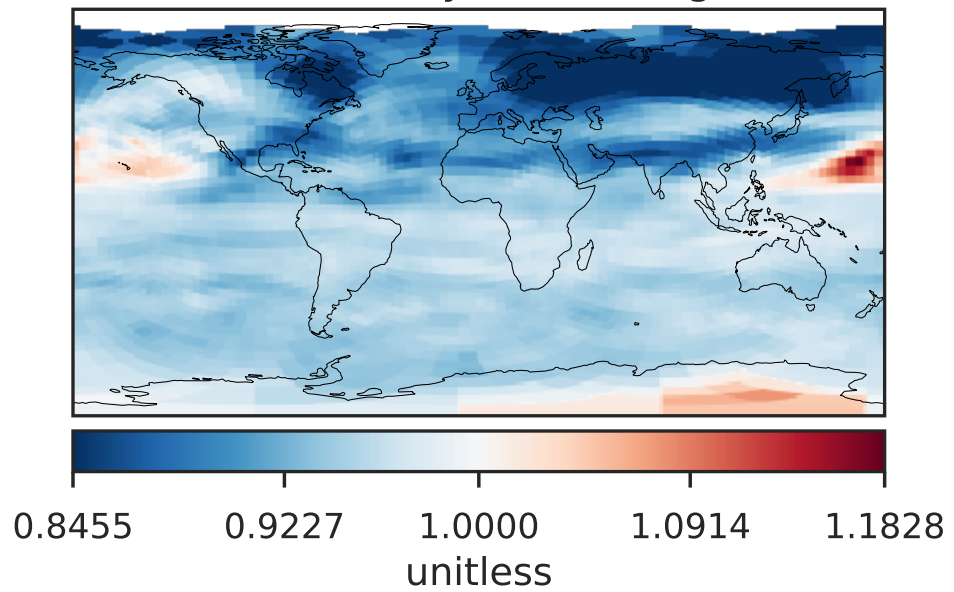
Difference (1x1.25)
Dev - Ref, Dynamic Range



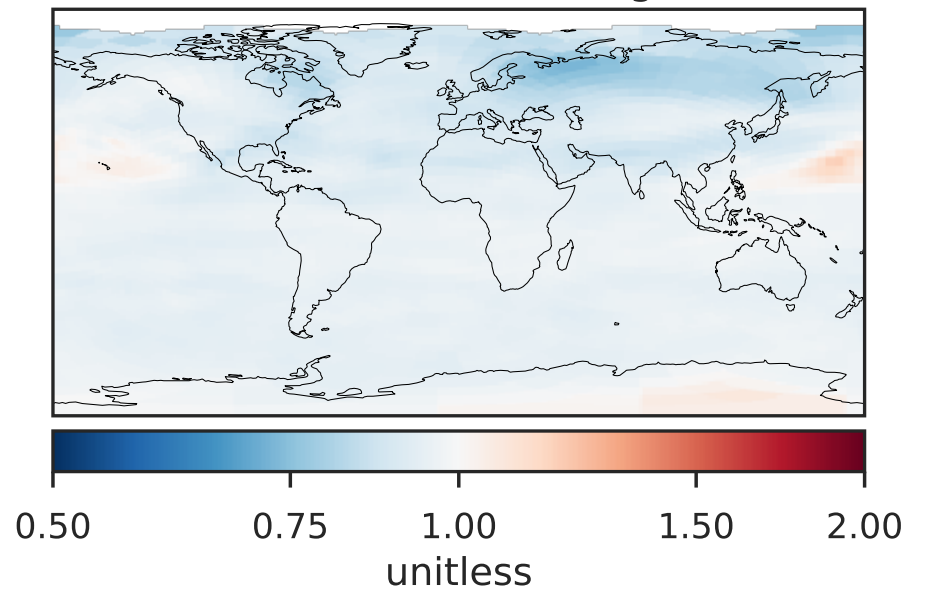
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

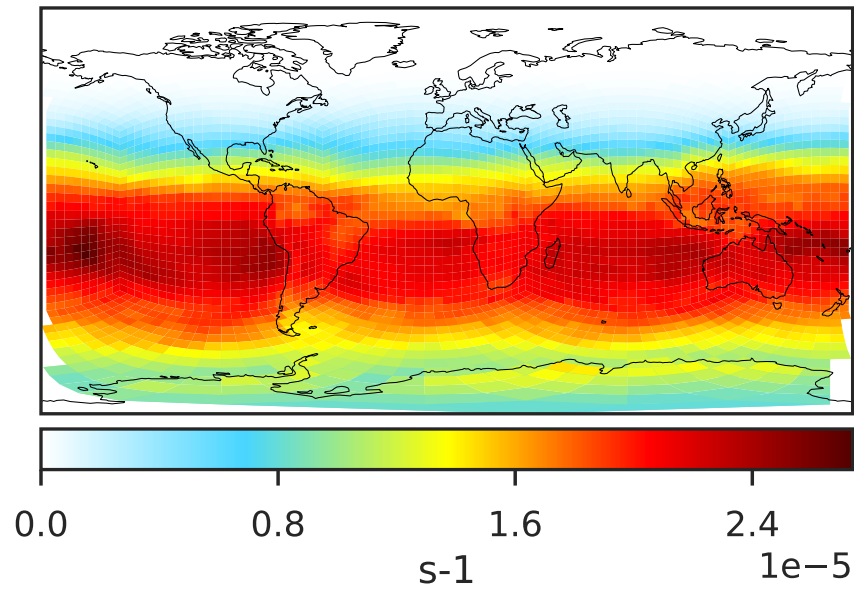


Ratio (1x1.25)
Dev/Ref, Fixed Range

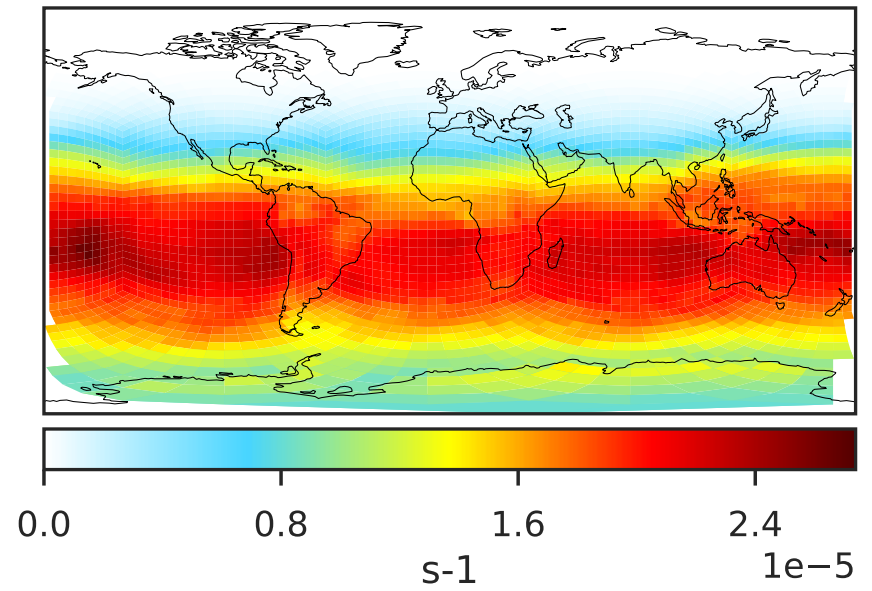


Jval_O3 (Jan2019)

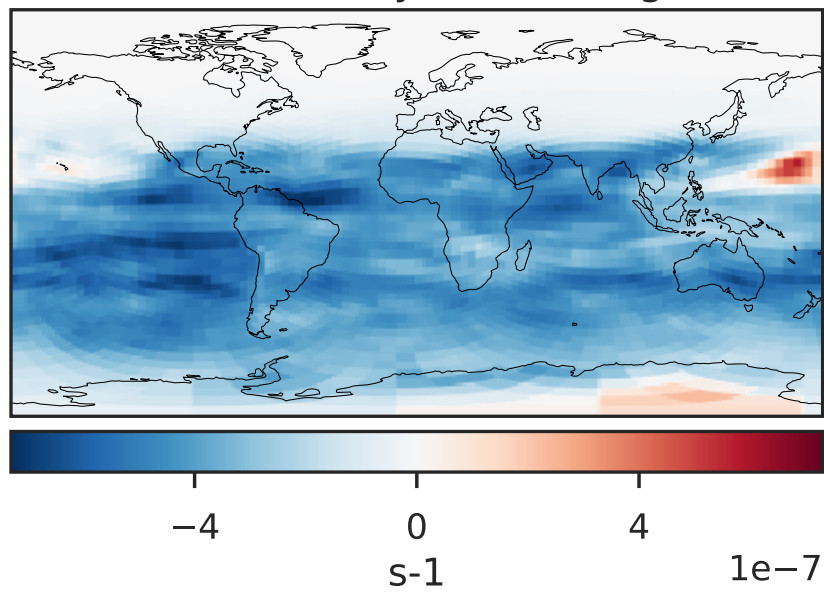
GCHP_14.0.0 (Ref)
c24



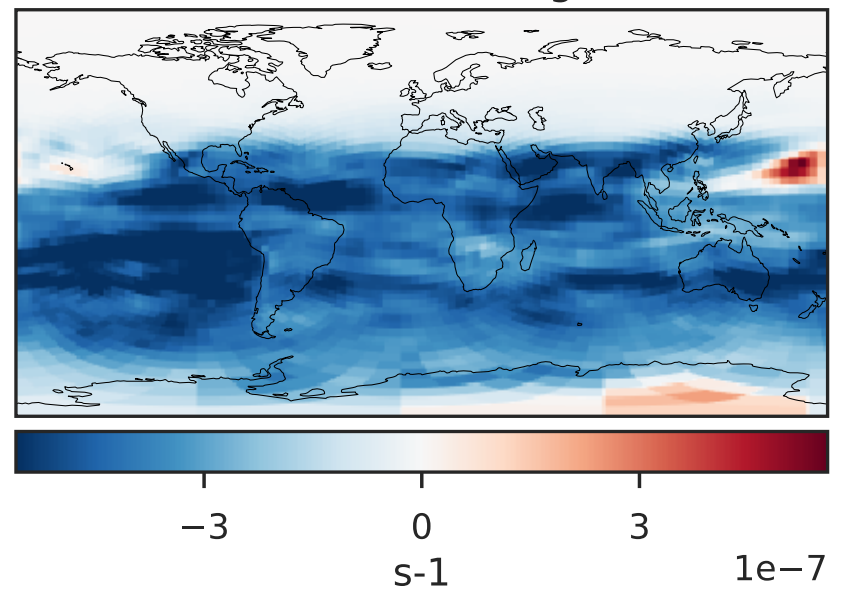
GCHP_14.2.0 (Dev)
c24



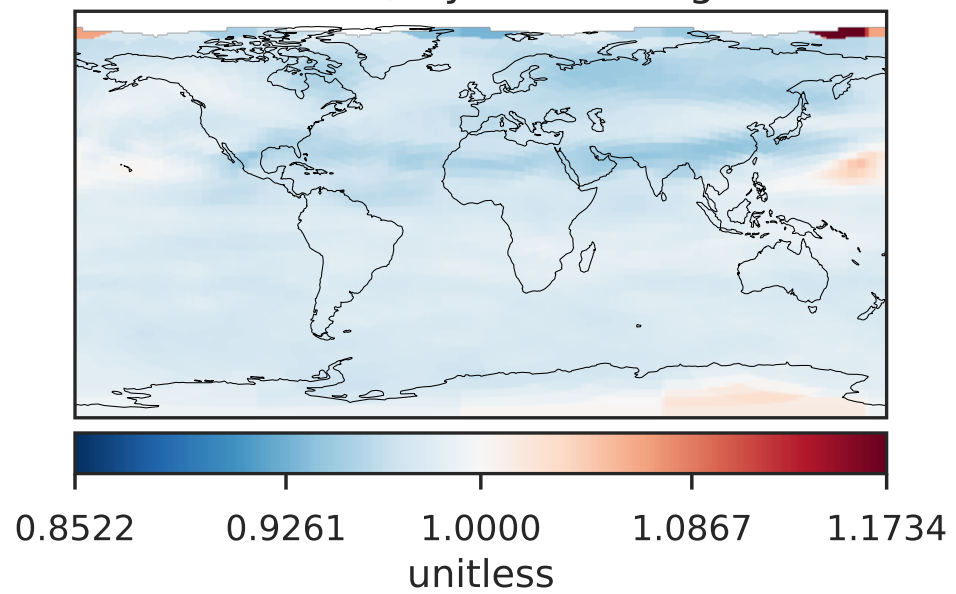
Difference (1x1.25)
Dev - Ref, Dynamic Range



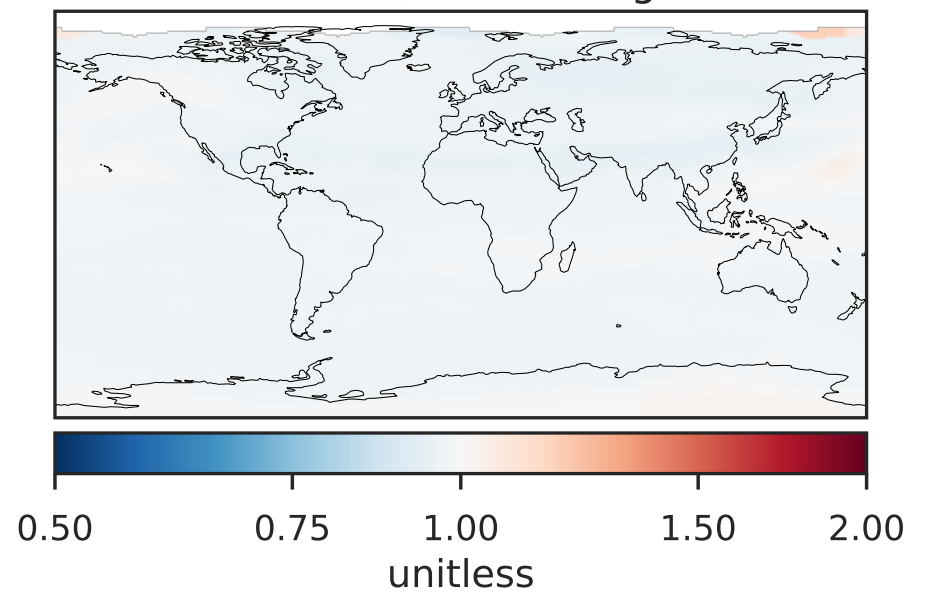
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

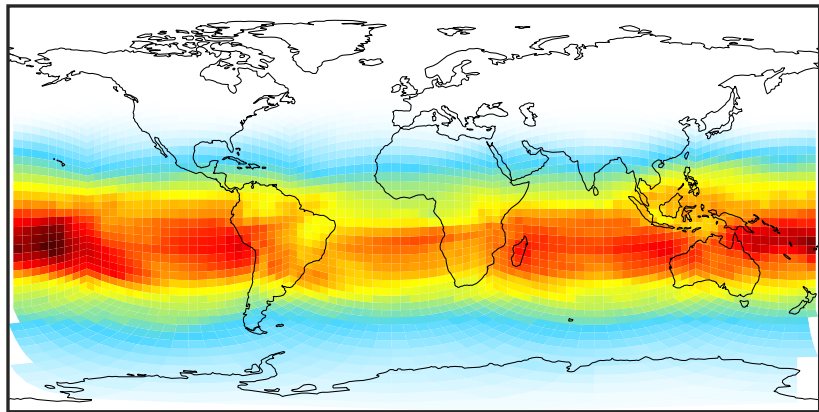


Ratio (1x1.25)
Dev/Ref, Fixed Range



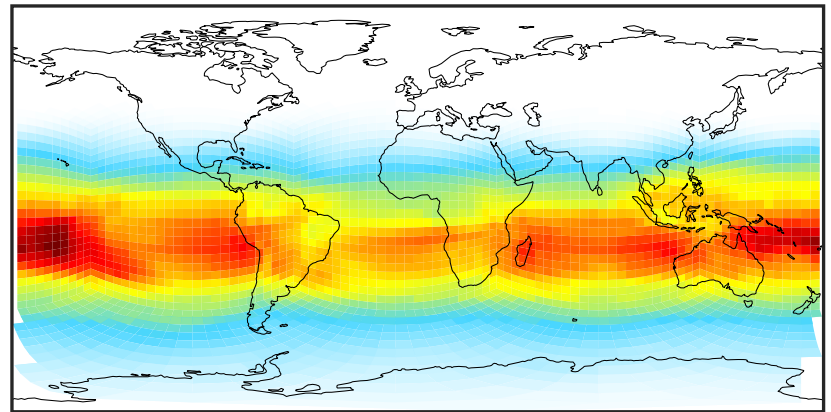
Jval_OCS (Jan2019)

GCHP_14.0.0 (Ref)
c24



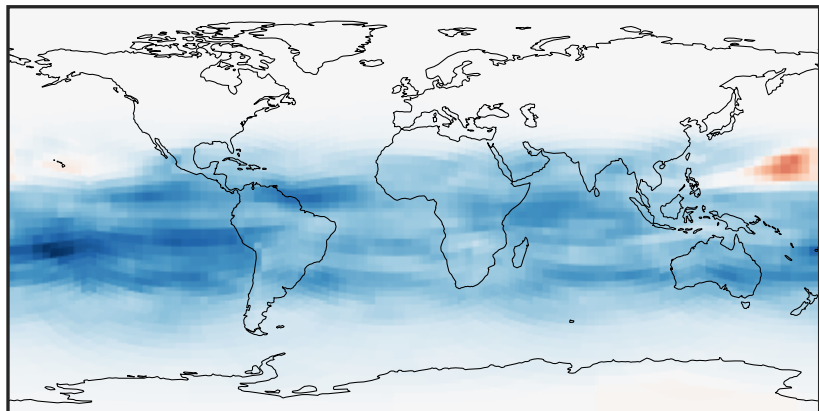
0.0 1.5 3.0 4.5
s-1 $1e-12$

GCHP_14.2.0 (Dev)
c24



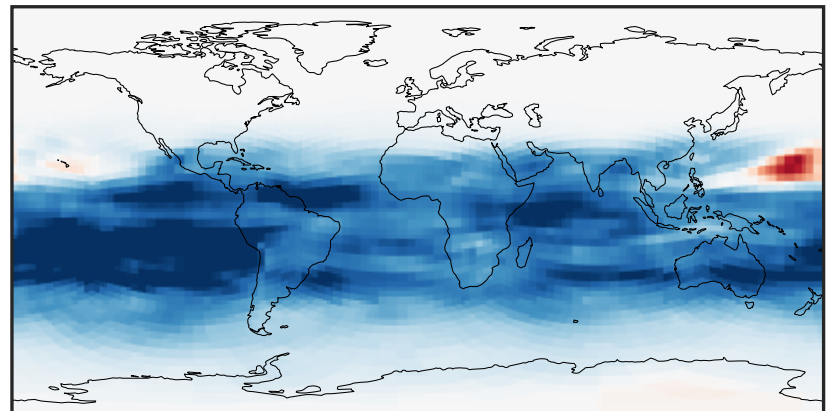
0.0 1.5 3.0 4.5
s-1 $1e-12$

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



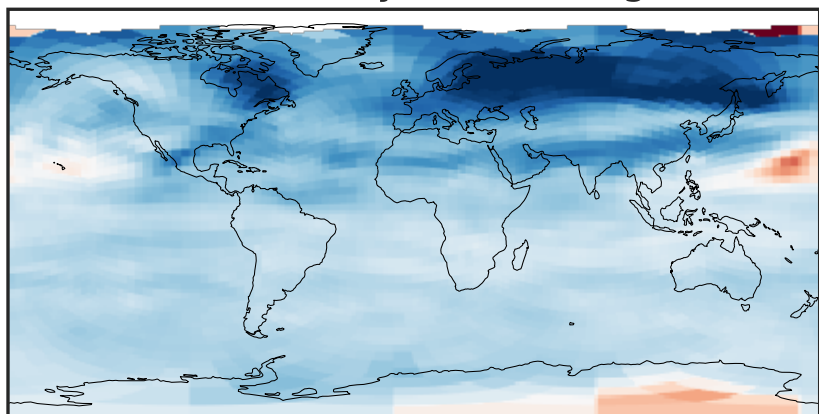
-1.5 0.0 1.5
s-1 $1e-13$

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



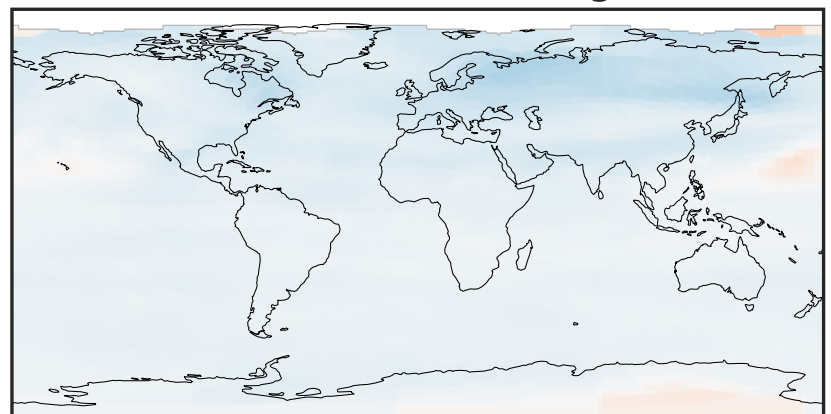
-1 0 1
s-1 $1e-13$

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.8405 0.9203 1.0000 1.0949 1.1897
unitless

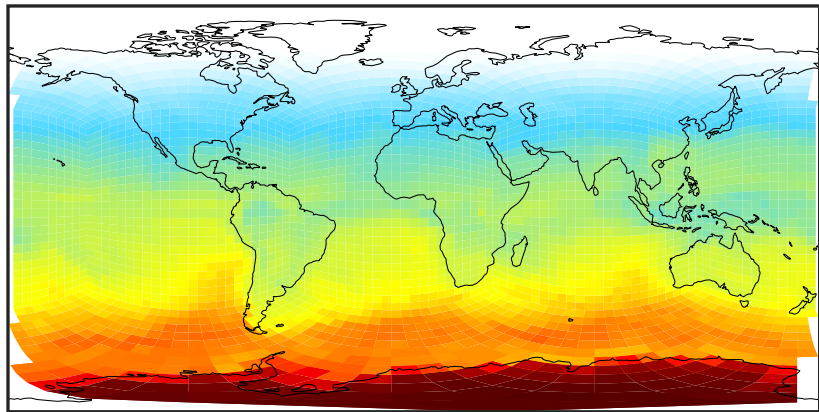
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

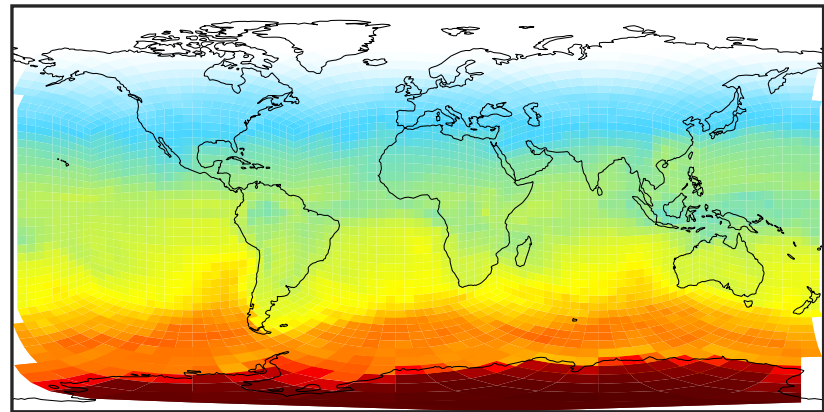
Jval_OCIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



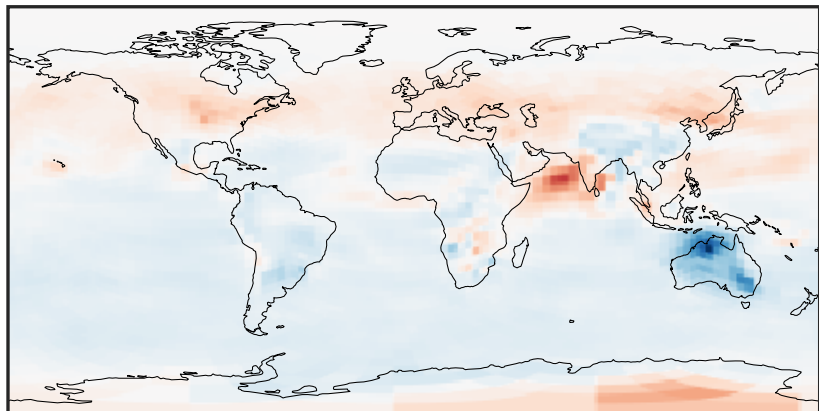
0.0000 0.0292 0.0584 0.0877 0.1169
s-1

GCHP_14.2.0 (Dev)
c24



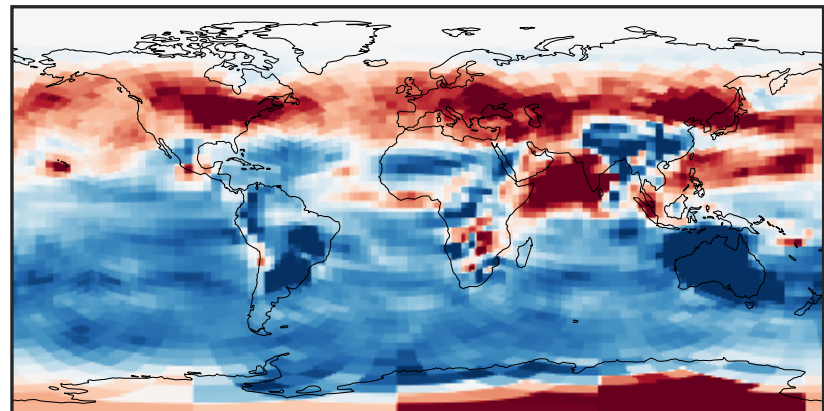
0.0000 0.0292 0.0584 0.0877 0.1169
s-1

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



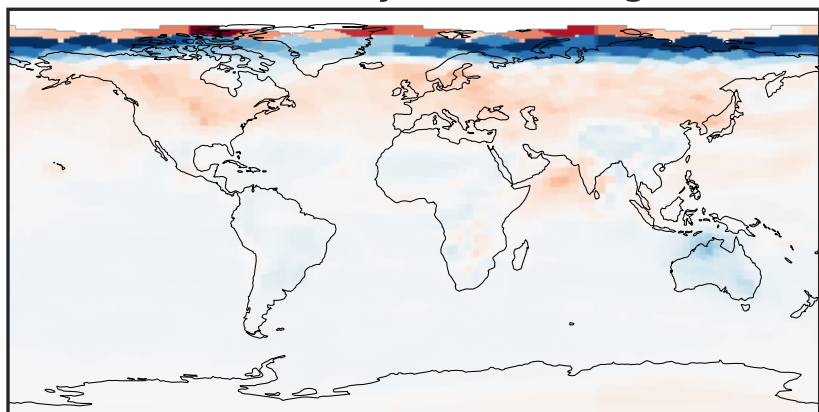
-0.00015 0.00000 0.00015
s-1

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



-2.5 0.0 2.5
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98679 0.99340 1.00000 1.00669 1.01338
unitless

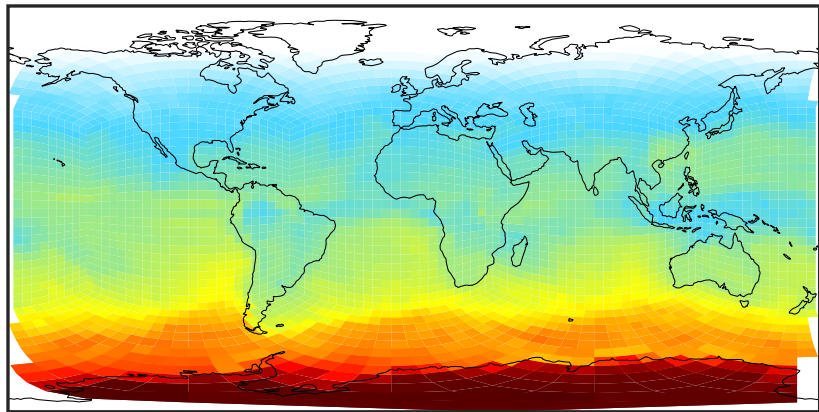
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

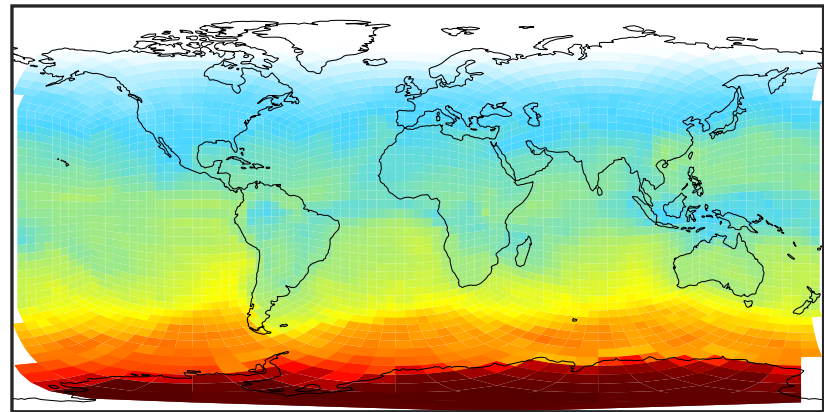
Jval_OIO (Jan2019)

GCHP_14.0.0 (Ref)
c24



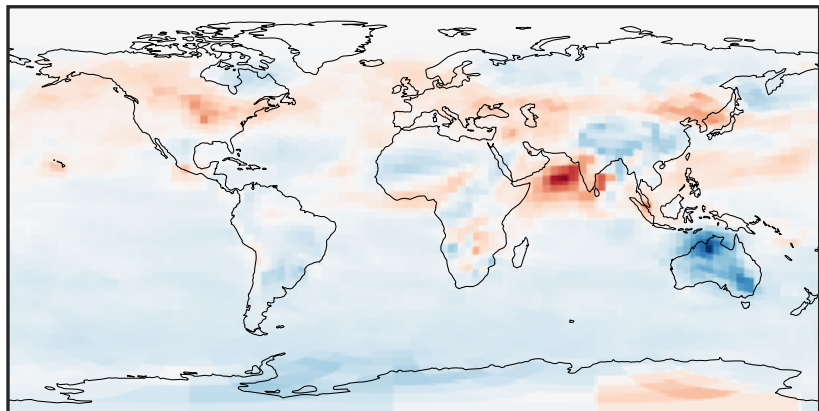
0.0000 0.0856 0.1713 0.2569 0.3426
s-1

GCHP_14.2.0 (Dev)
c24



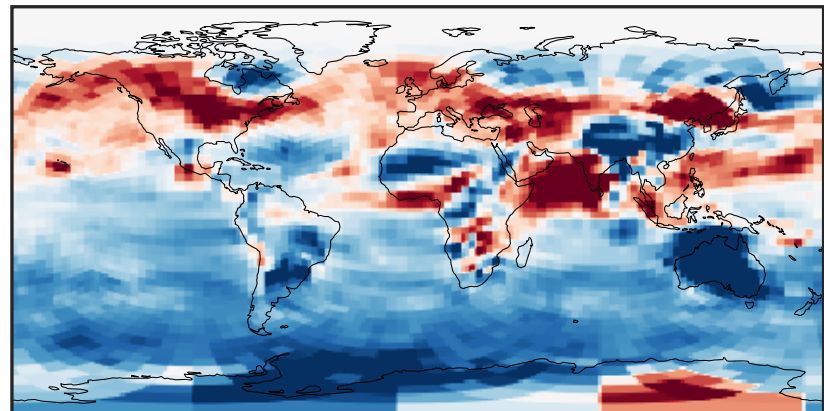
0.0000 0.0856 0.1713 0.2569 0.3426
s-1

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



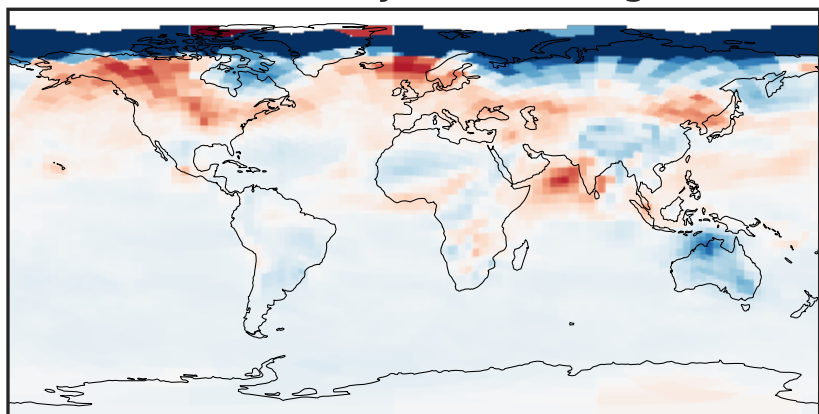
-0.0003 0.0000 0.0003
s-1

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



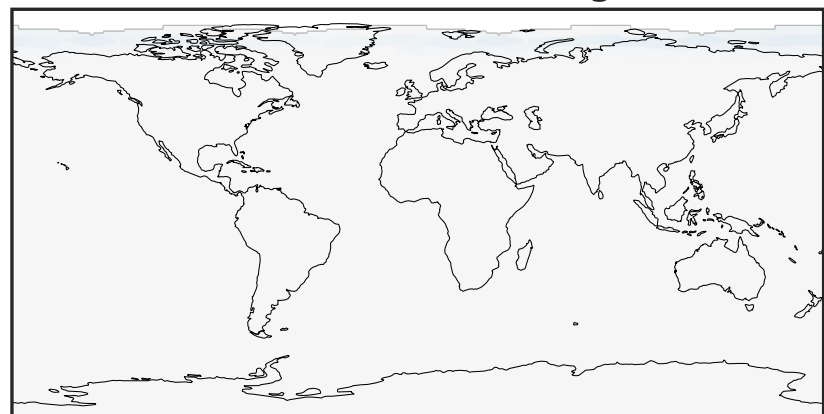
-8 0 8
s-1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99429 0.99715 1.00000 1.00287 1.00574
unitless

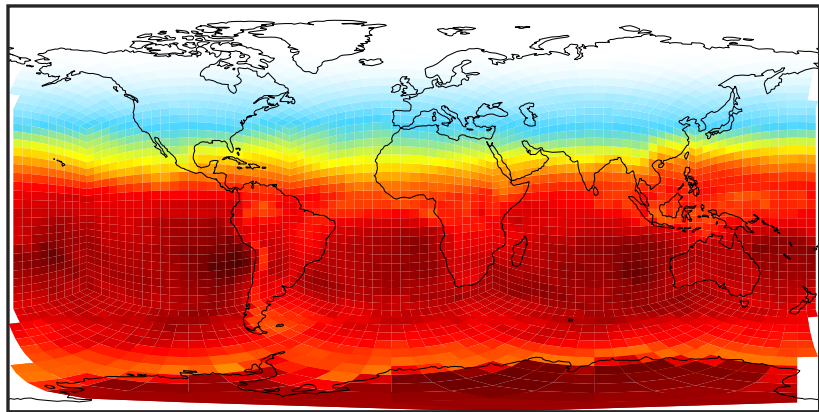
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

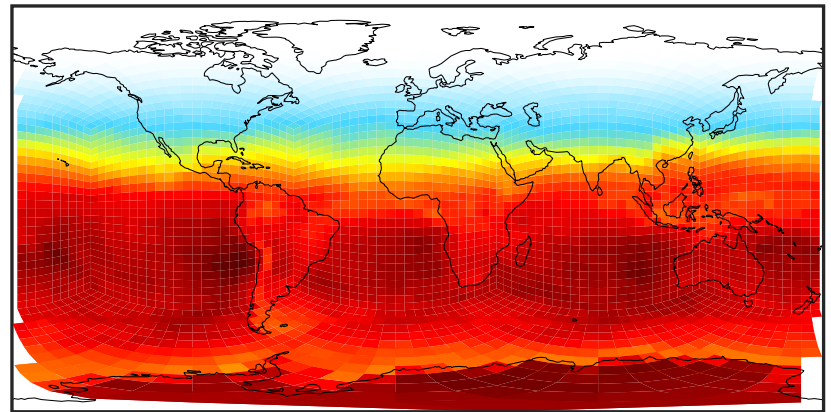
Jval_PAN (Jan2019)

GCHP_14.0.0 (Ref)
c24



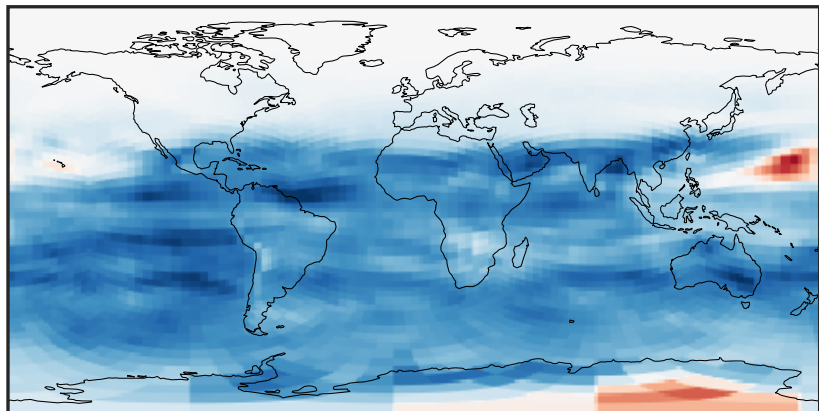
0.0 1.5 3.0 4.5
s-1 $1e-7$

GCHP_14.2.0 (Dev)
c24



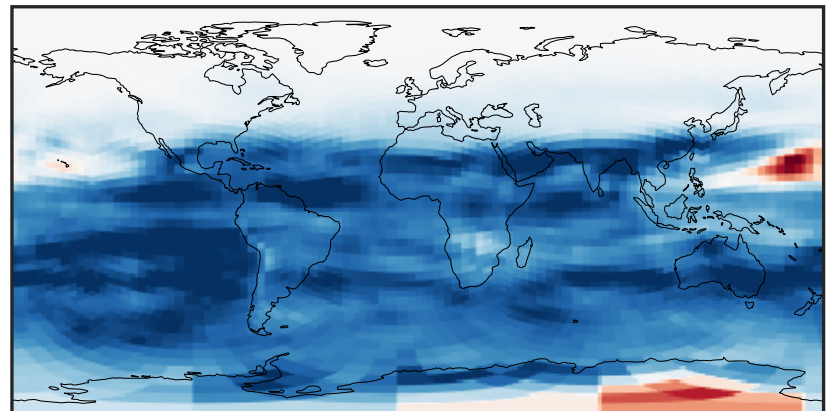
0.0 1.5 3.0 4.5
s-1 $1e-7$

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



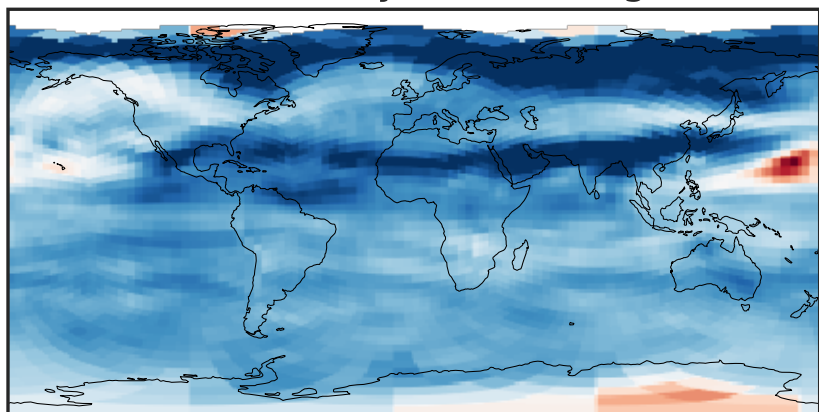
-3 0 3
s-1 $1e-9$

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



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

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98389 0.99194 1.00000 1.00819 1.01638
unitless

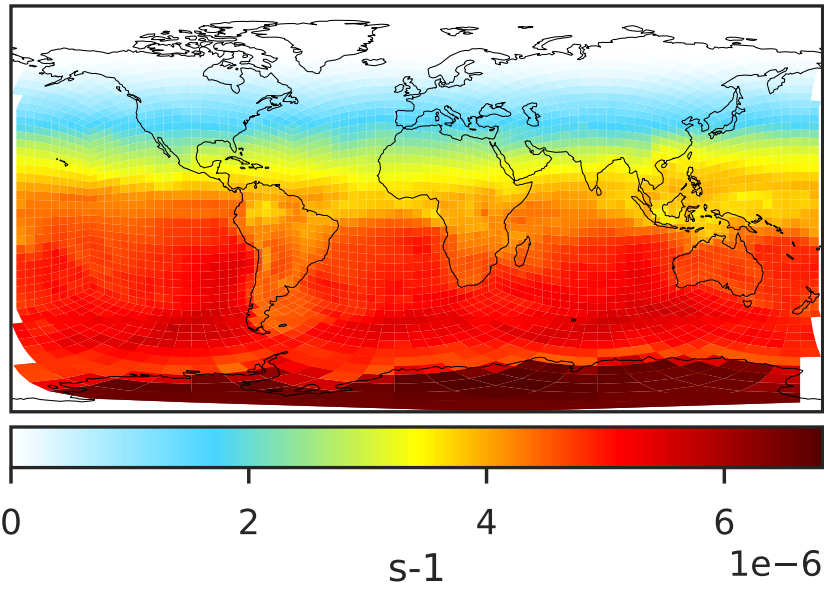
Ratio (1x1.25)
Dev/Ref, Fixed Range



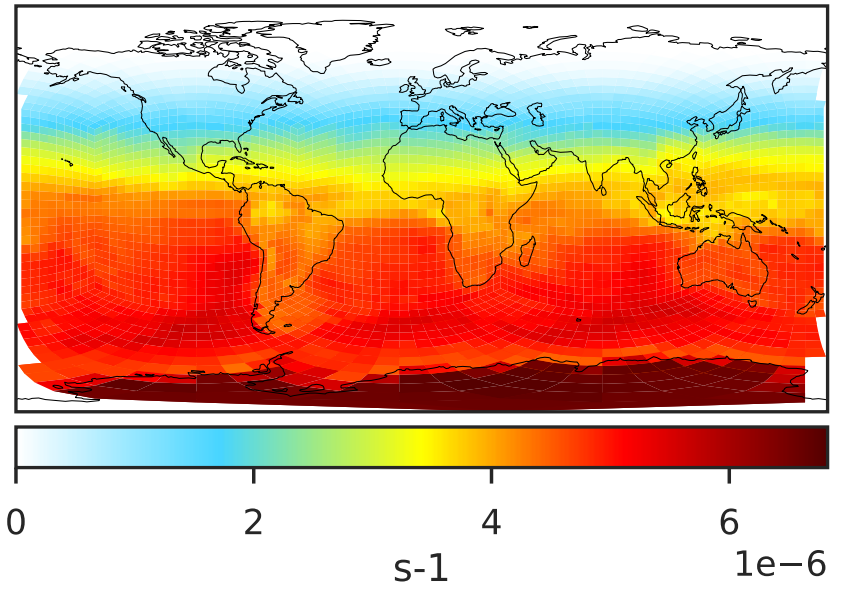
0.50 0.75 1.00 1.50 2.00
unitless

Jval_PIP (Jan2019)

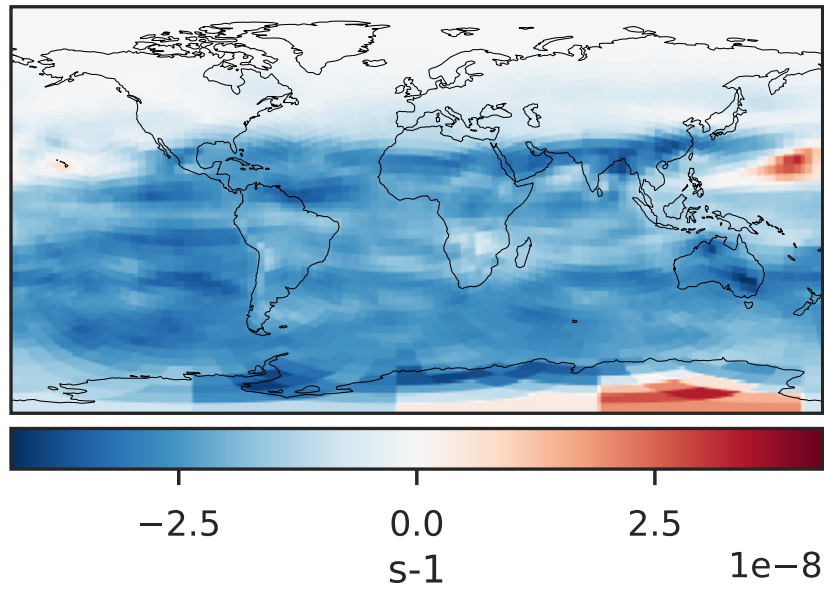
GCHP_14.0.0 (Ref)
c24



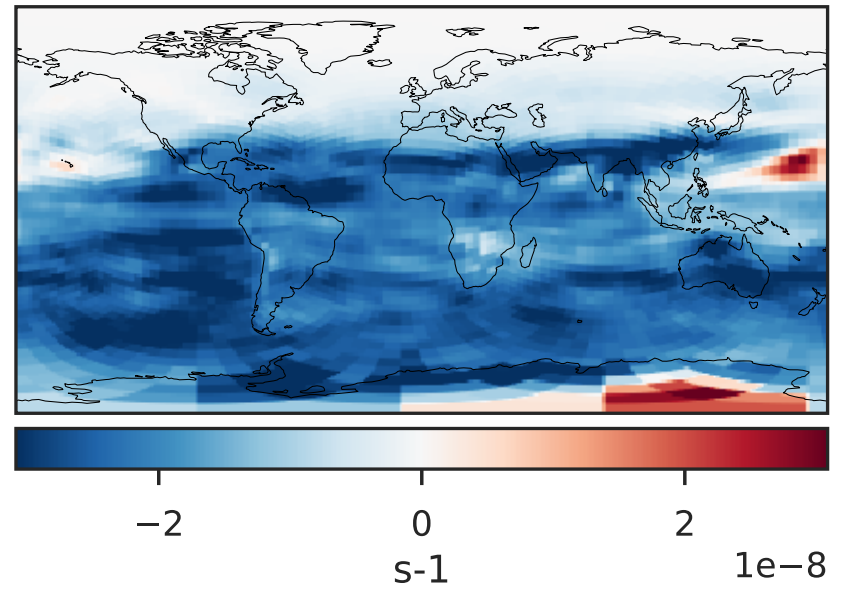
GCHP_14.2.0 (Dev)
c24



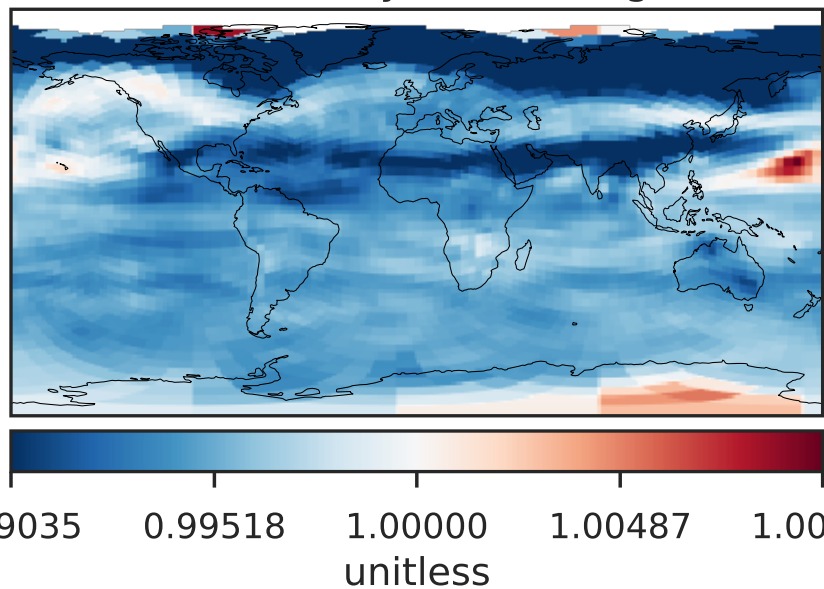
Difference (1x1.25)
Dev - Ref, Dynamic Range



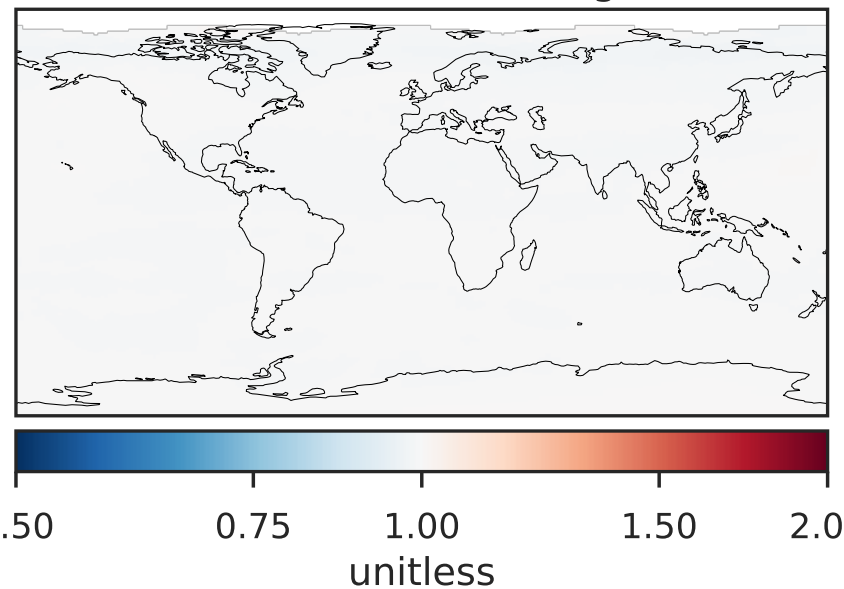
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

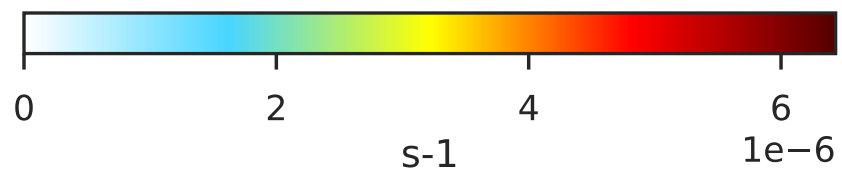
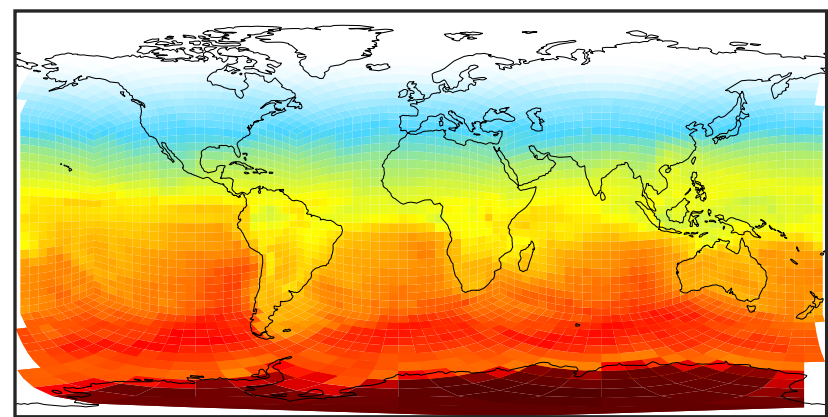


Ratio (1x1.25)
Dev/Ref, Fixed Range

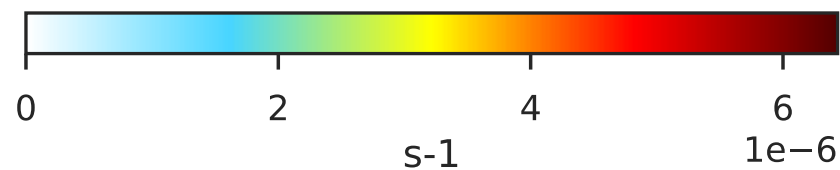
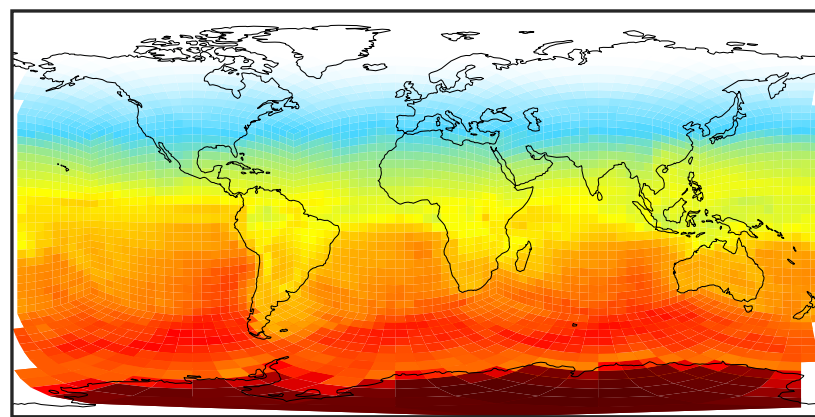


Jval_PP (Jan2019)

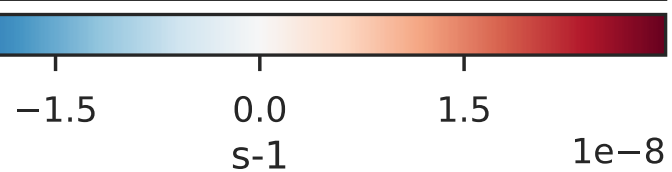
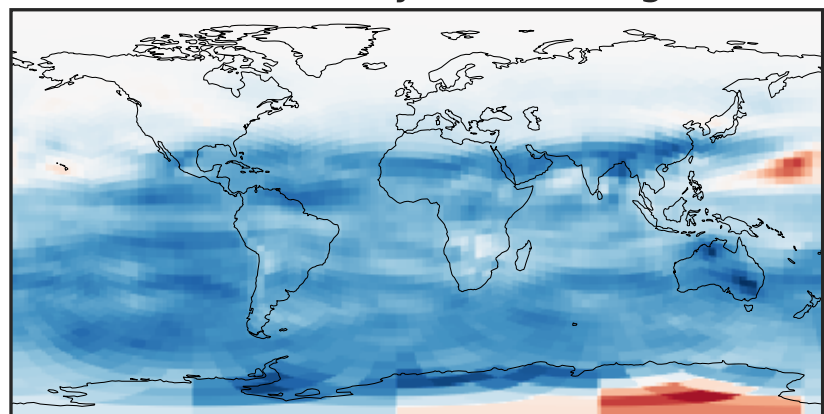
GCHP_14.0.0 (Ref)
c24



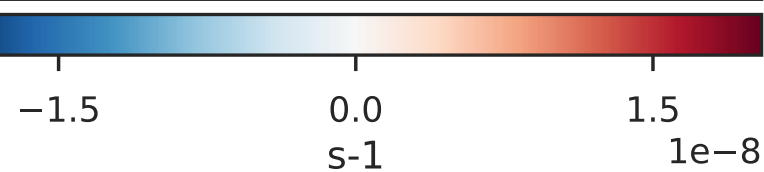
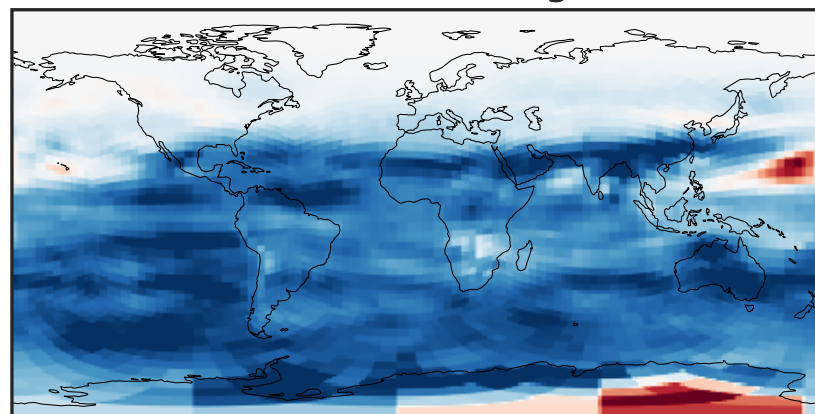
GCHP_14.2.0 (Dev)
c24



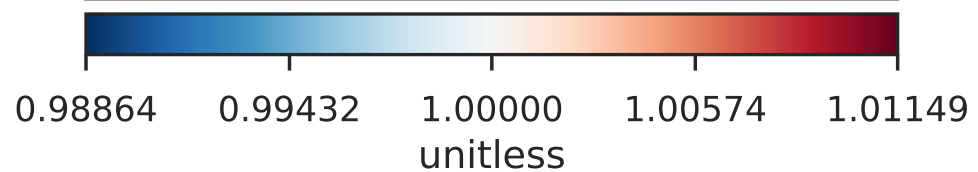
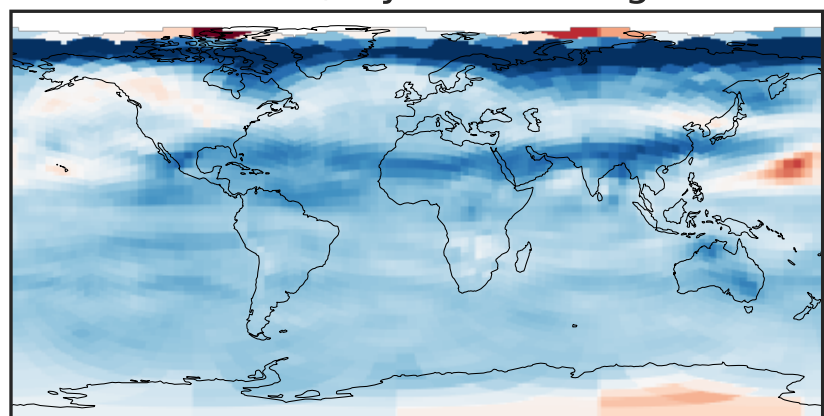
Difference (1x1.25)
Dev - Ref, Dynamic Range



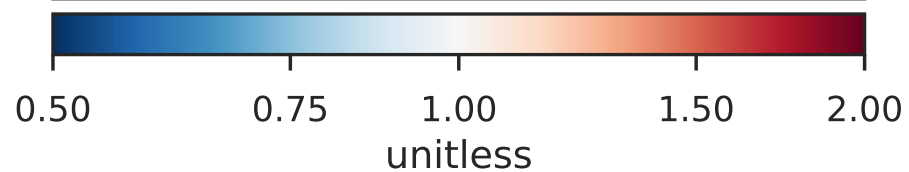
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

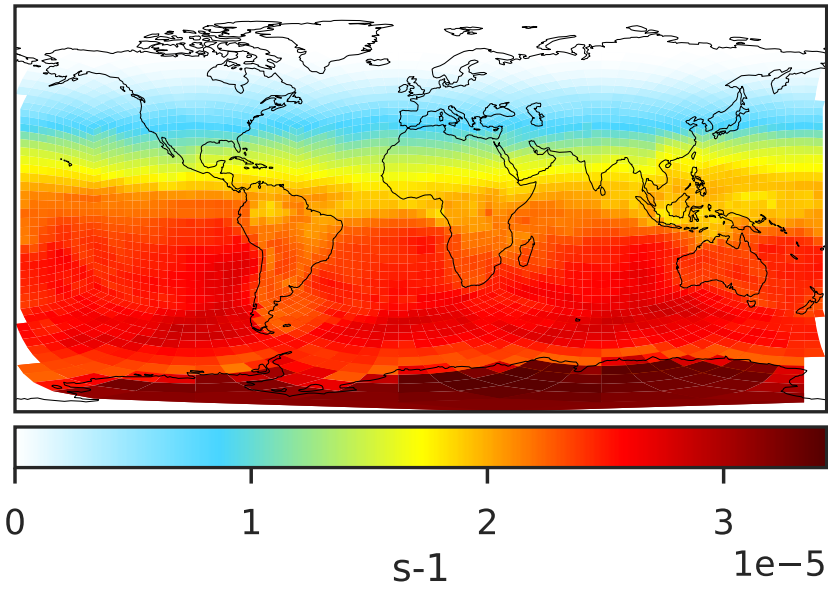


Ratio (1x1.25)
Dev/Ref, Fixed Range

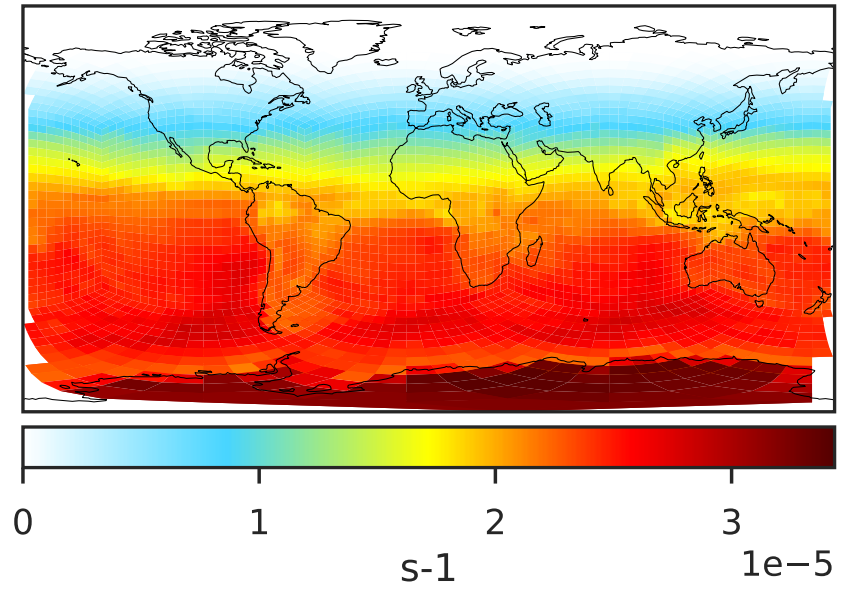


Jval_PROPNN (Jan2019)

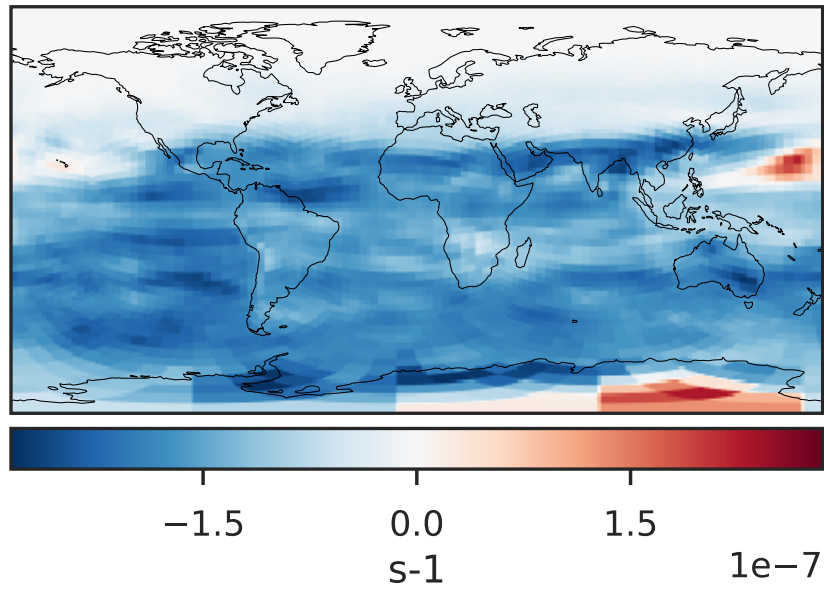
GCHP_14.0.0 (Ref)
c24



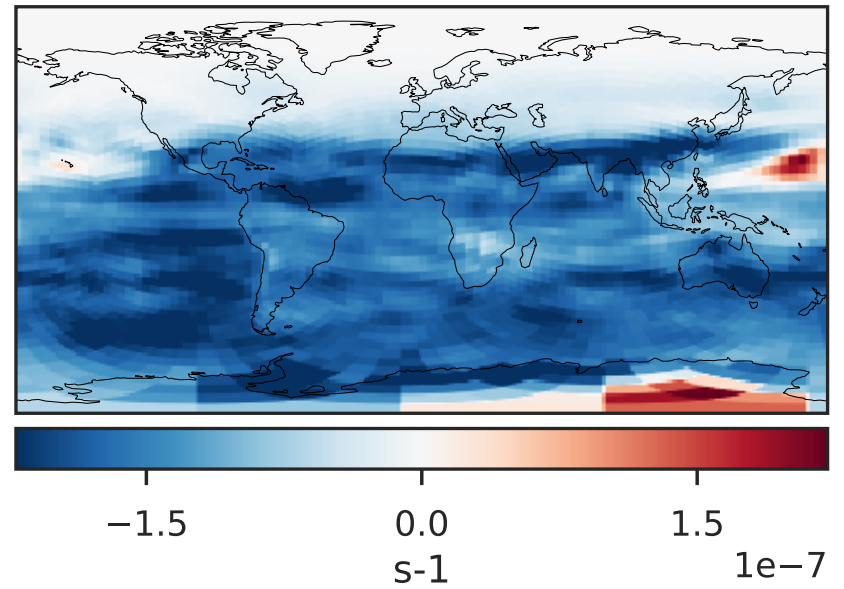
GCHP_14.2.0 (Dev)
c24



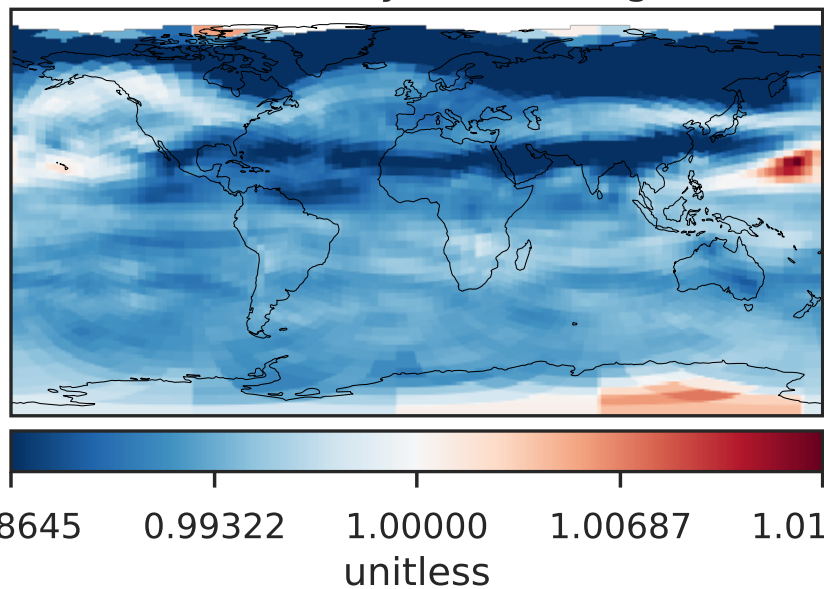
Difference (1x1.25)
Dev - Ref, Dynamic Range



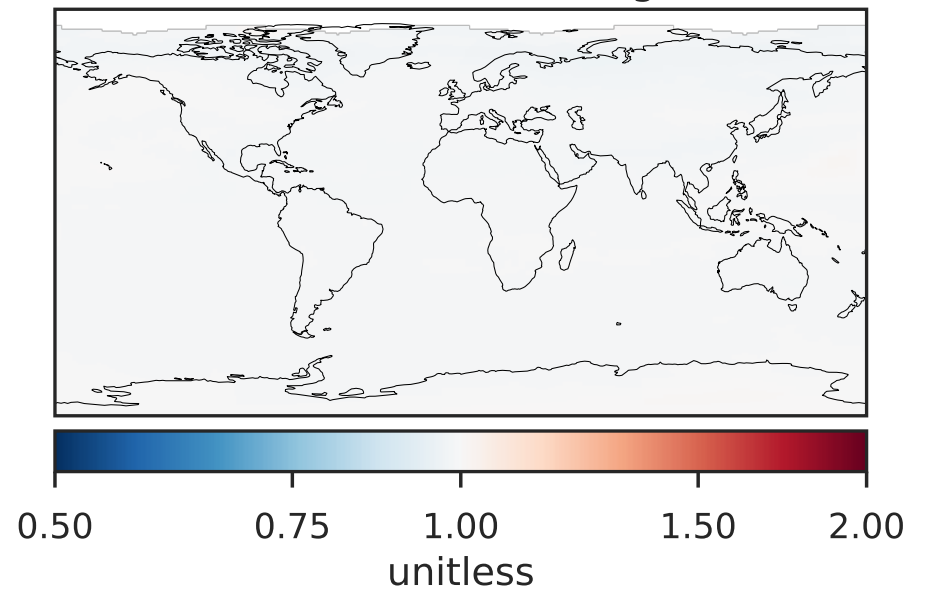
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

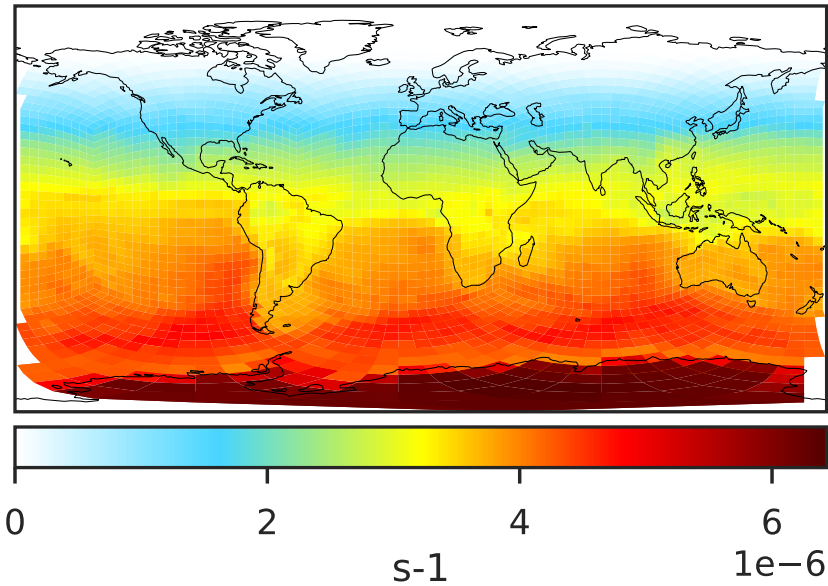


Ratio (1x1.25)
Dev/Ref, Fixed Range

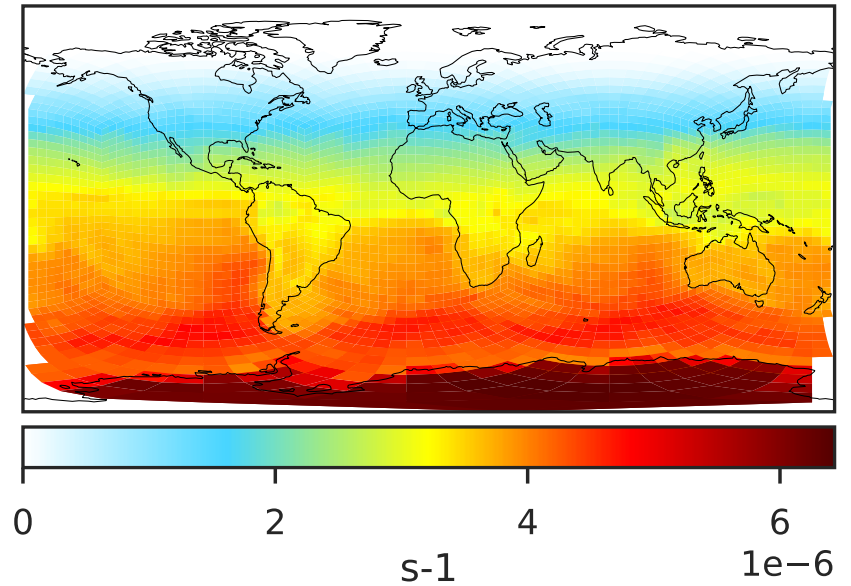


Jval_PRPN (Jan2019)

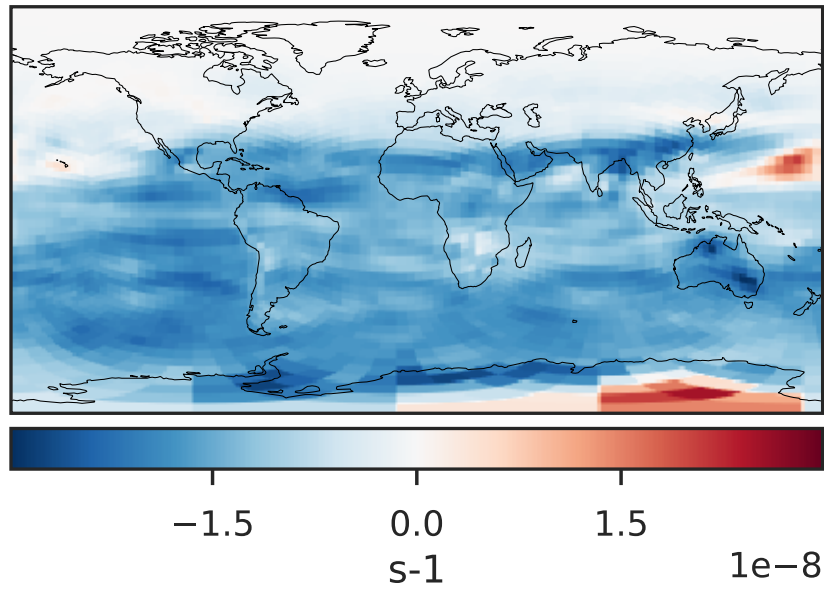
GCHP_14.0.0 (Ref)
c24



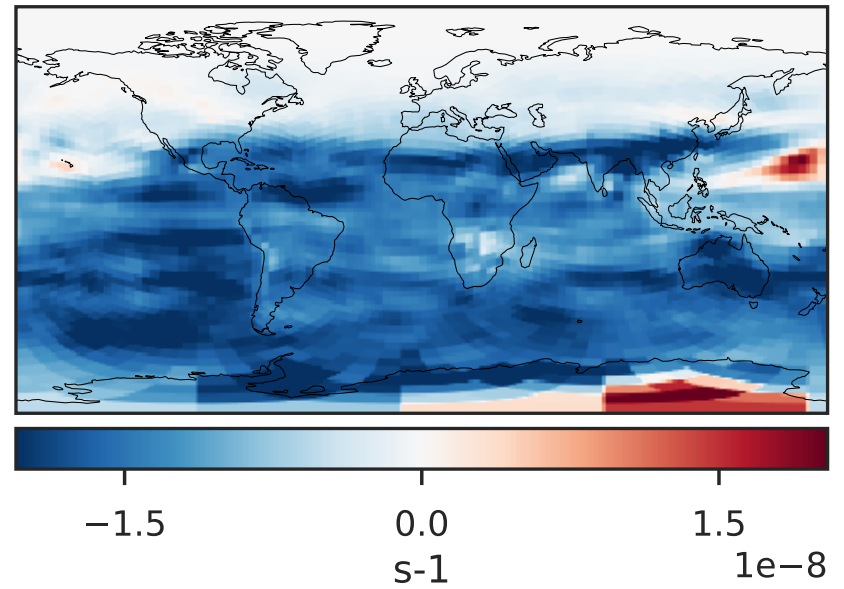
GCHP_14.2.0 (Dev)
c24



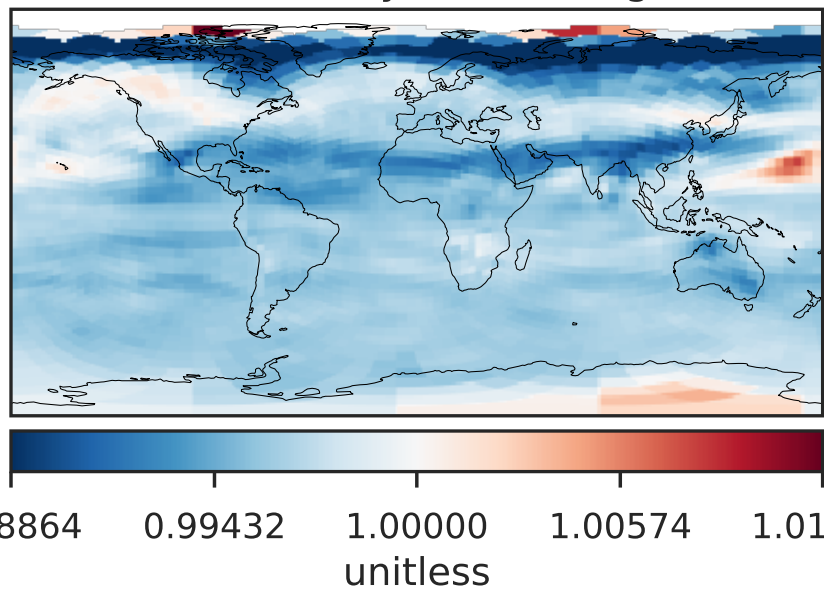
Difference (1x1.25)
Dev - Ref, Dynamic Range



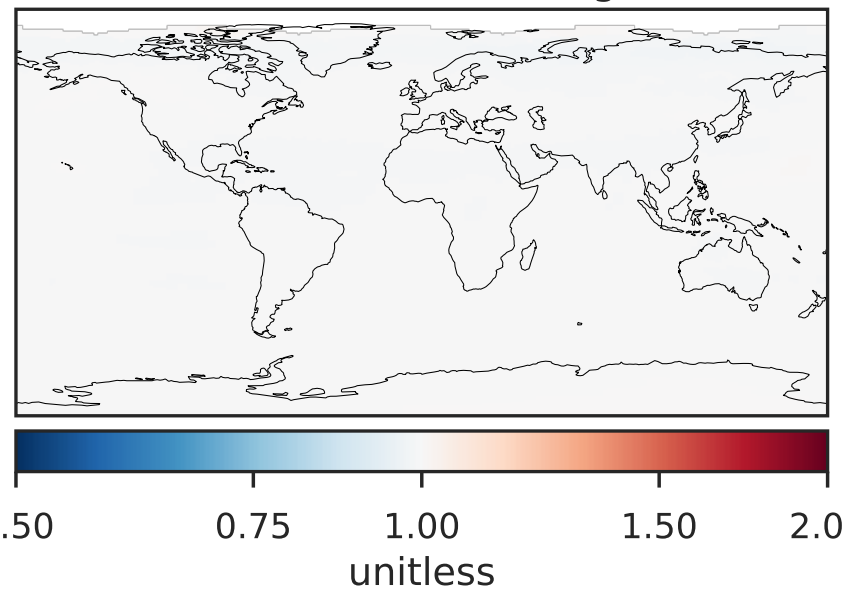
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

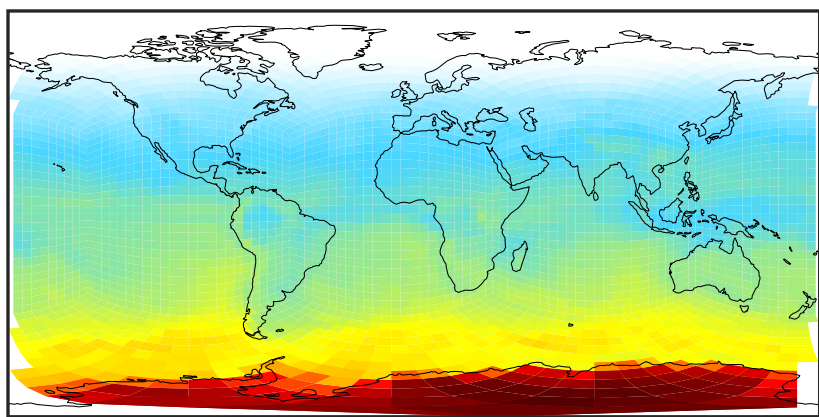


Ratio (1x1.25)
Dev/Ref, Fixed Range



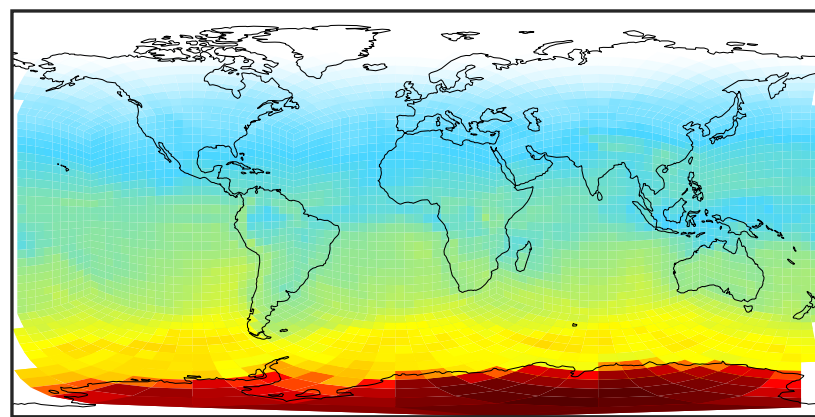
Jval_PYAC (Jan2019)

GCHP_14.0.0 (Ref)
c24



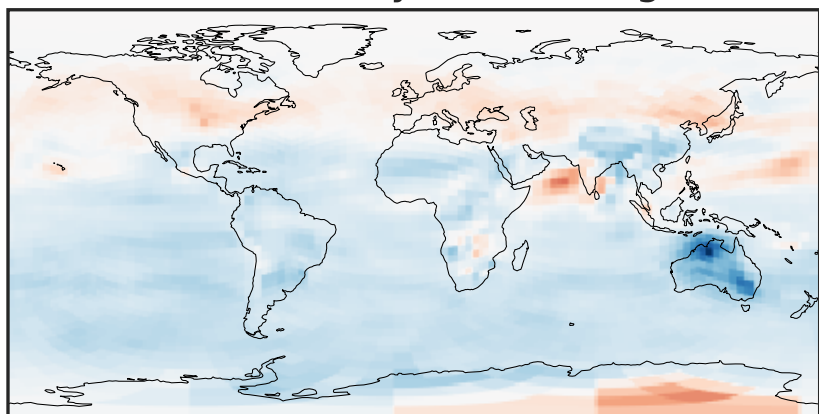
0.00000 0.00015 0.00030 0.00045
s-1

GCHP_14.2.0 (Dev)
c24



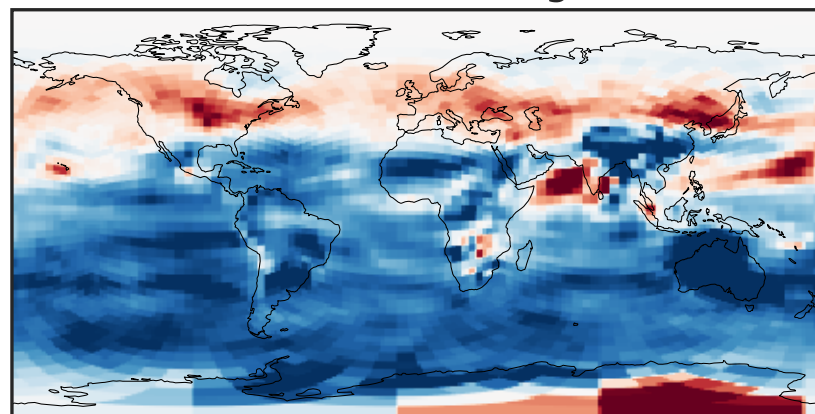
0.00000 0.00015 0.00030 0.00045
s-1

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



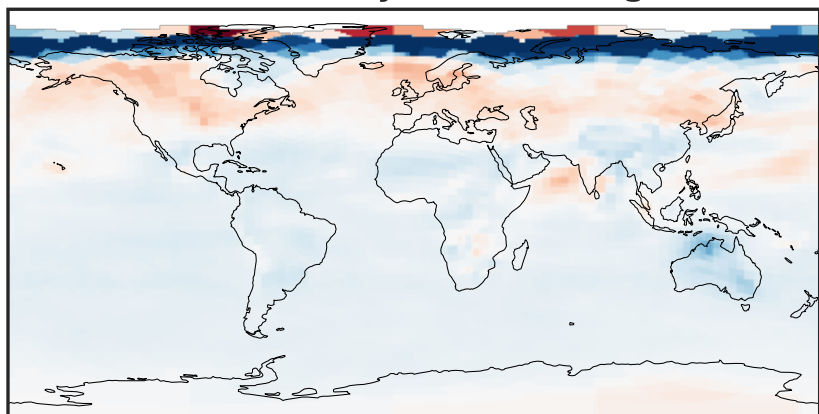
-5 0 5
s-1 10^{-7}

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



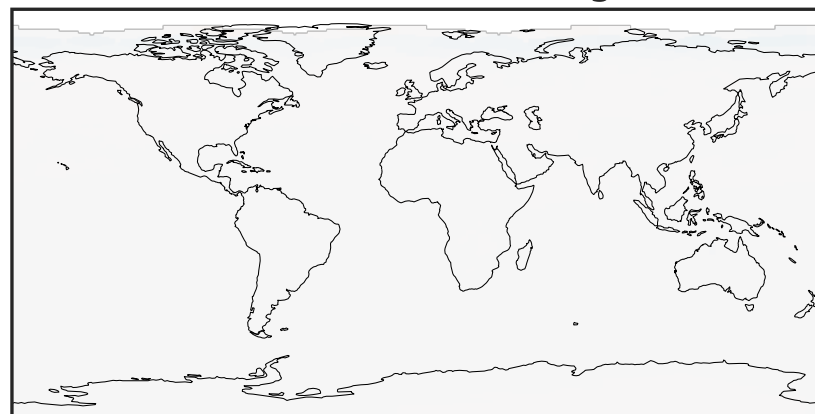
-1.5 0.0 1.5
s-1 10^{-7}

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.98872 0.99436 1.00000 1.00570 1.01141
unitless

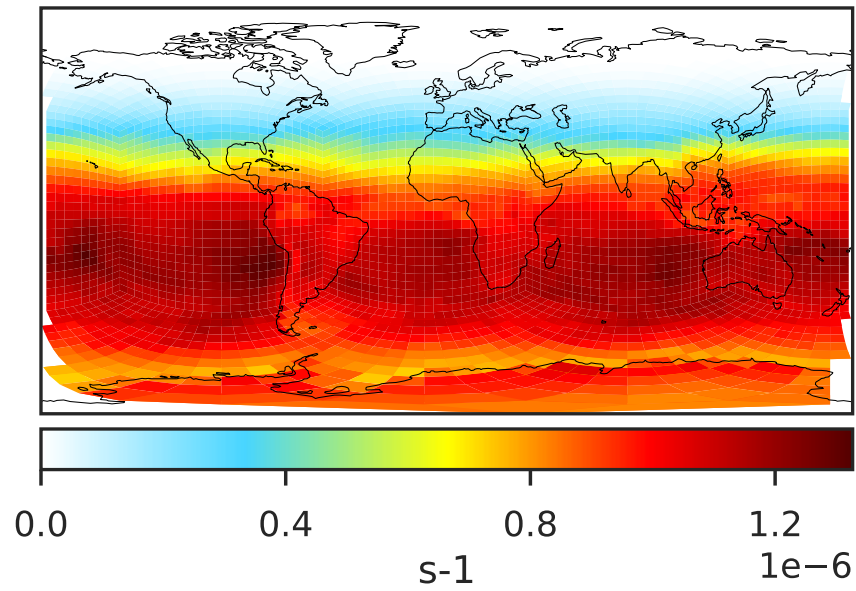
Ratio (1x1.25)
Dev/Ref, Fixed Range



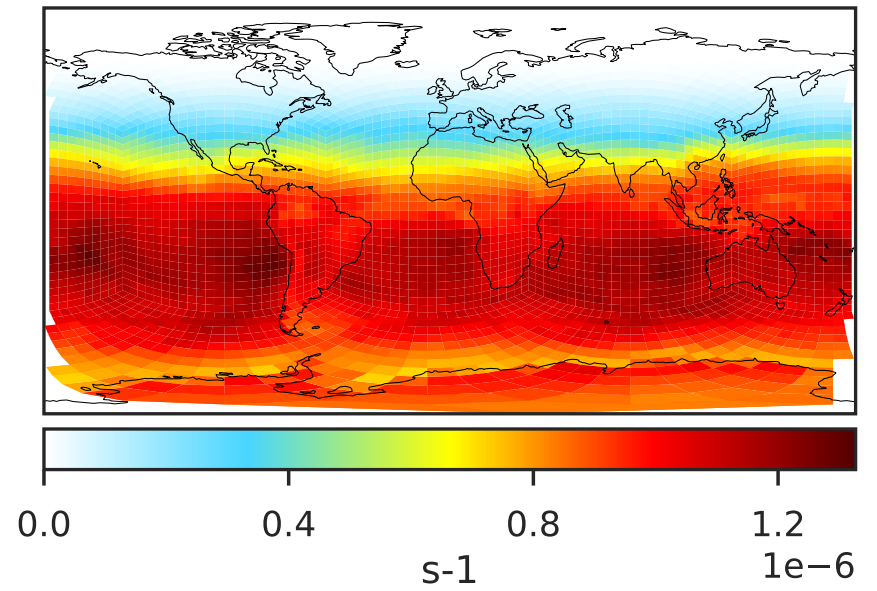
0.50 0.75 1.00 1.50 2.00
unitless

Jval_R4N2 (Jan2019)

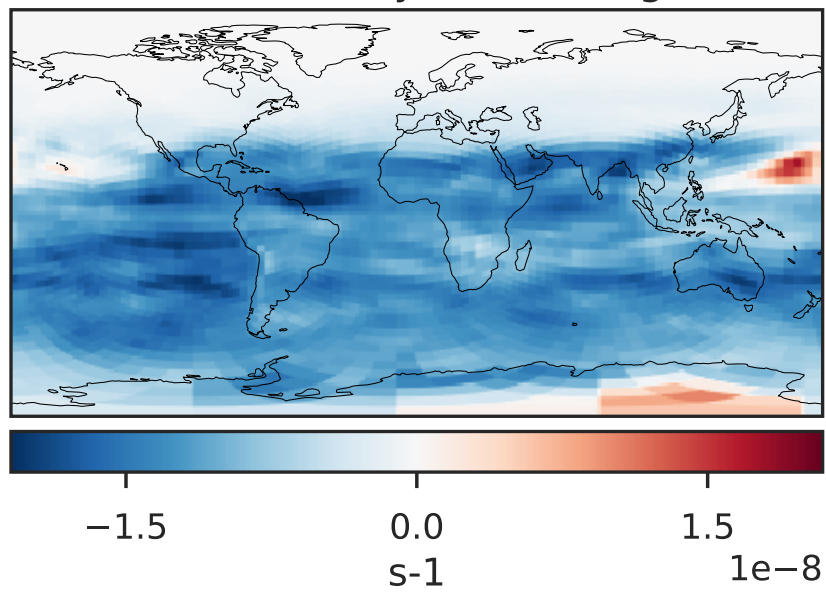
GCHP_14.0.0 (Ref)
c24



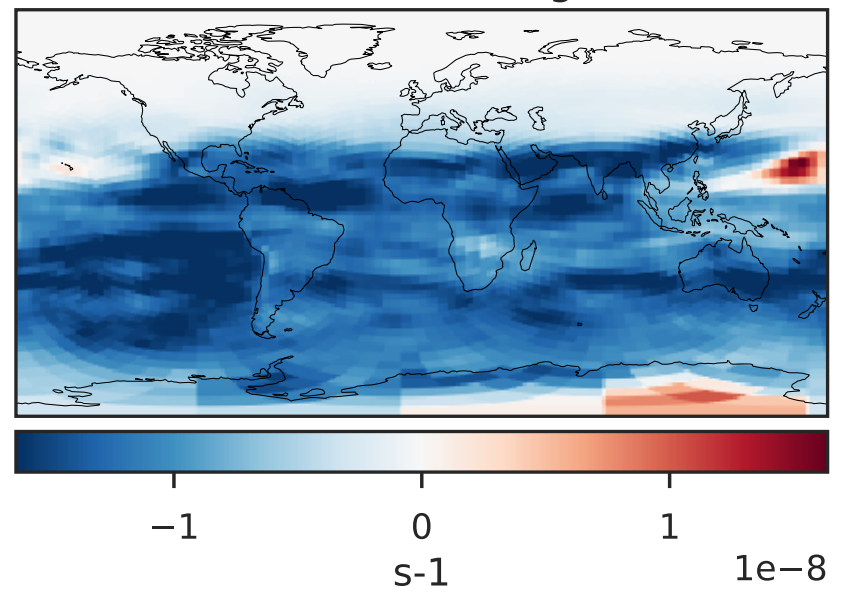
GCHP_14.2.0 (Dev)
c24



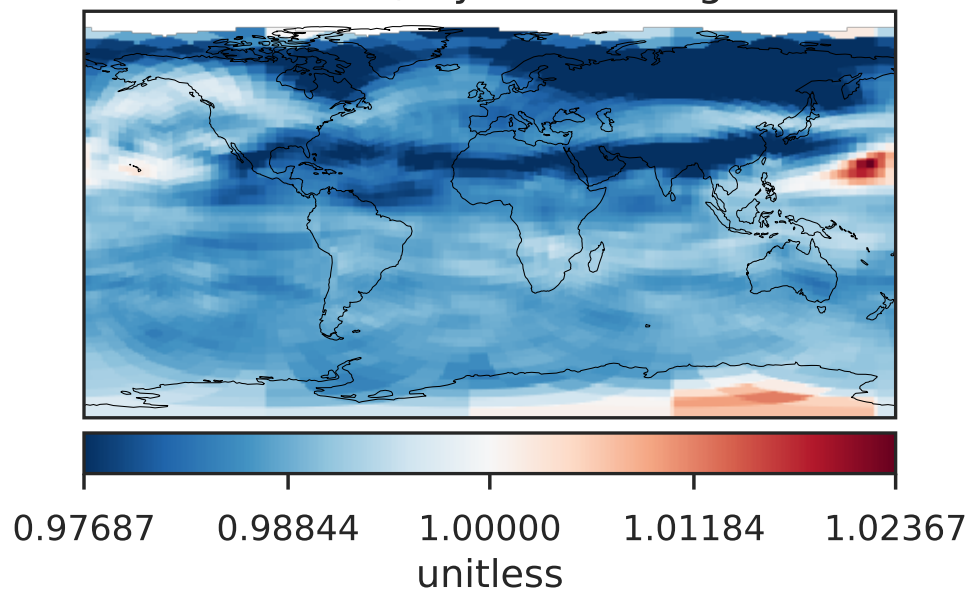
Difference (1x1.25)
Dev - Ref, Dynamic Range



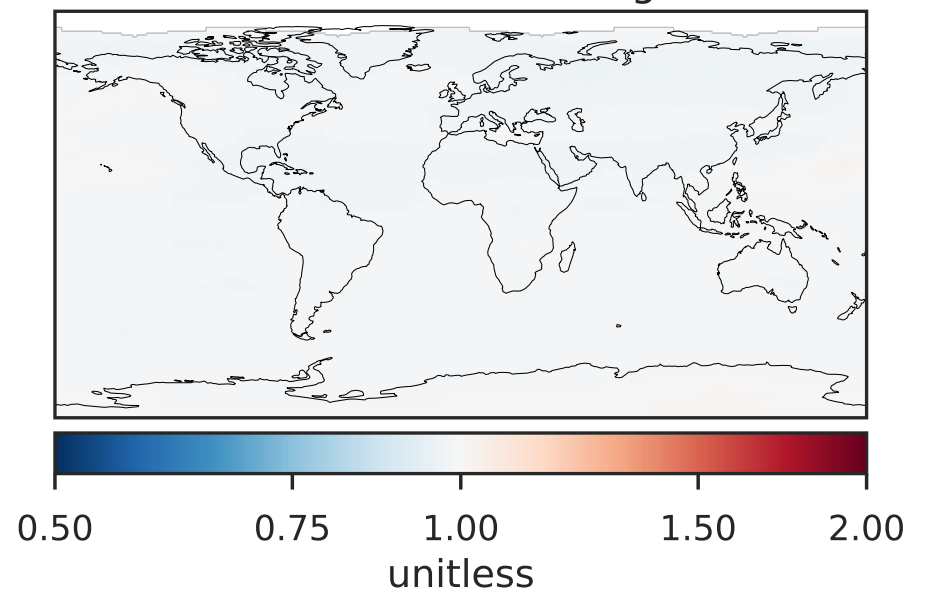
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

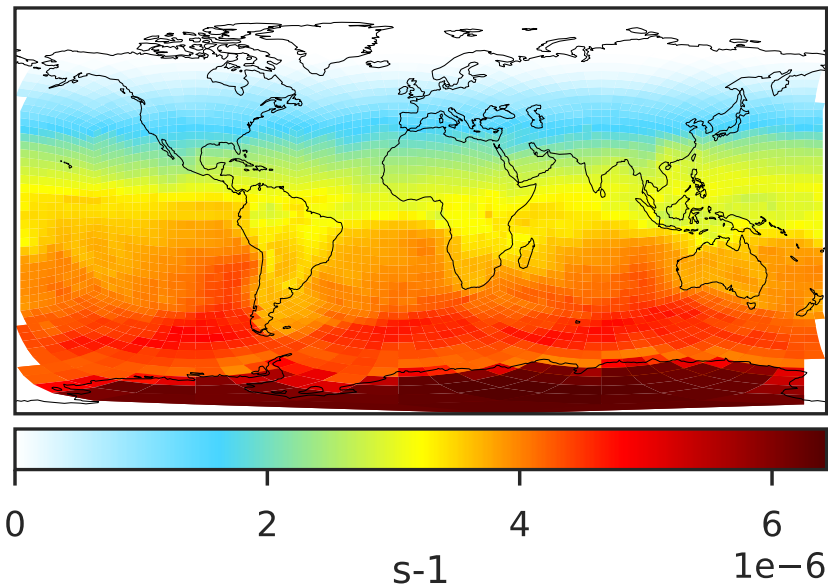


Ratio (1x1.25)
Dev/Ref, Fixed Range

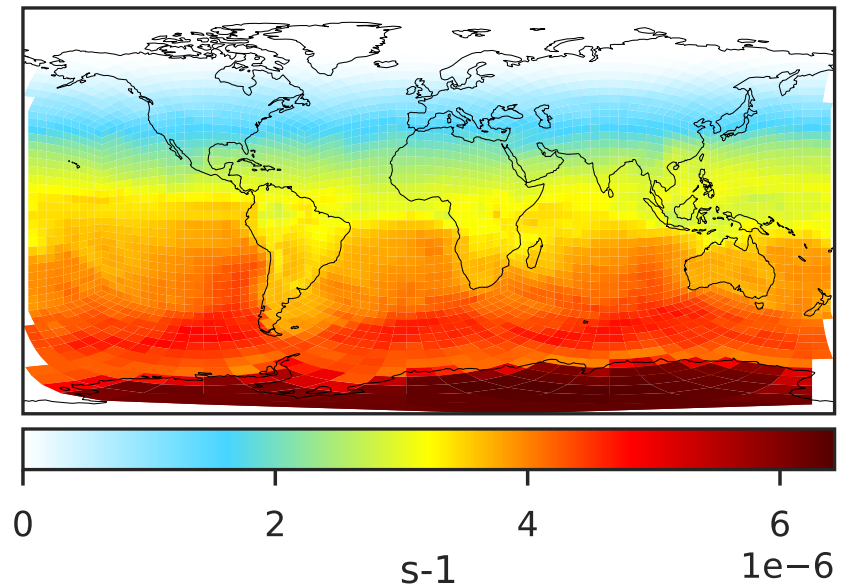


Jval_R4P (Jan2019)

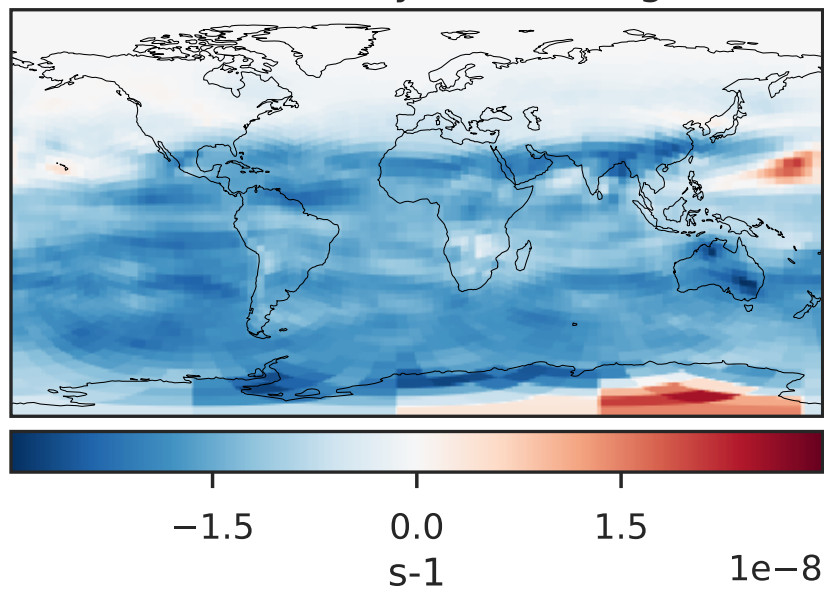
GCHP_14.0.0 (Ref)
c24



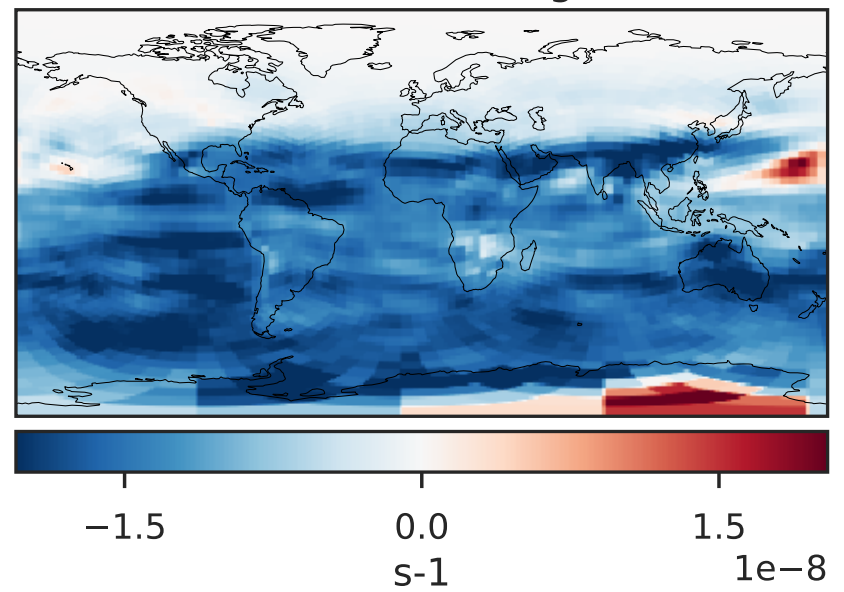
GCHP_14.2.0 (Dev)
c24



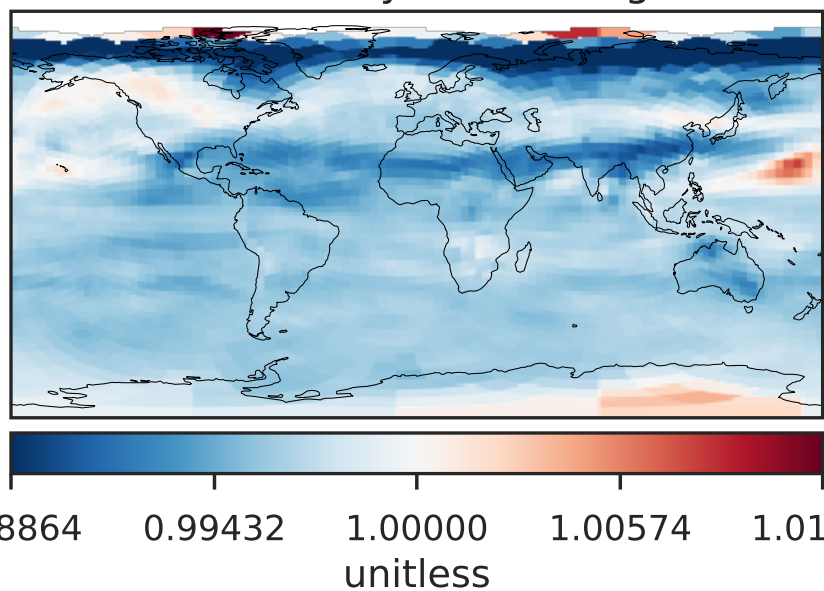
Difference (1x1.25)
Dev - Ref, Dynamic Range



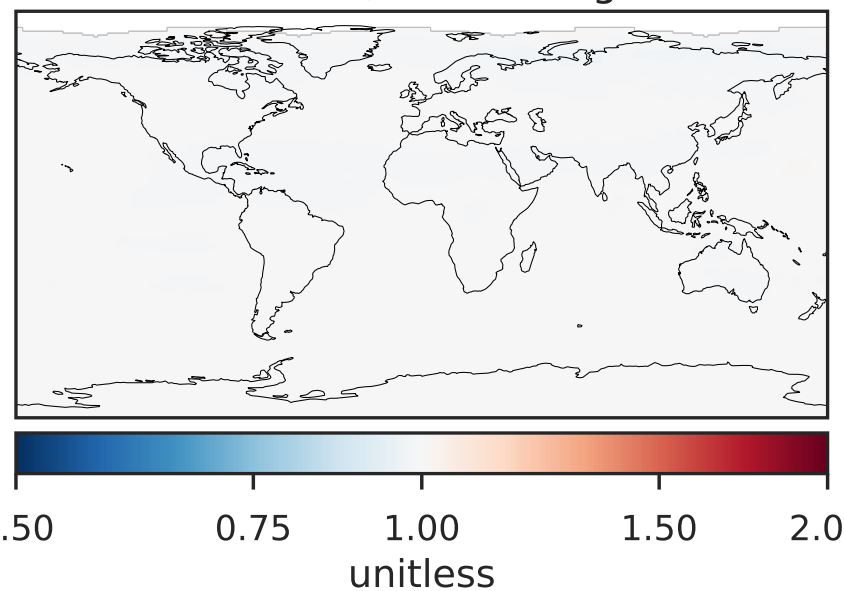
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

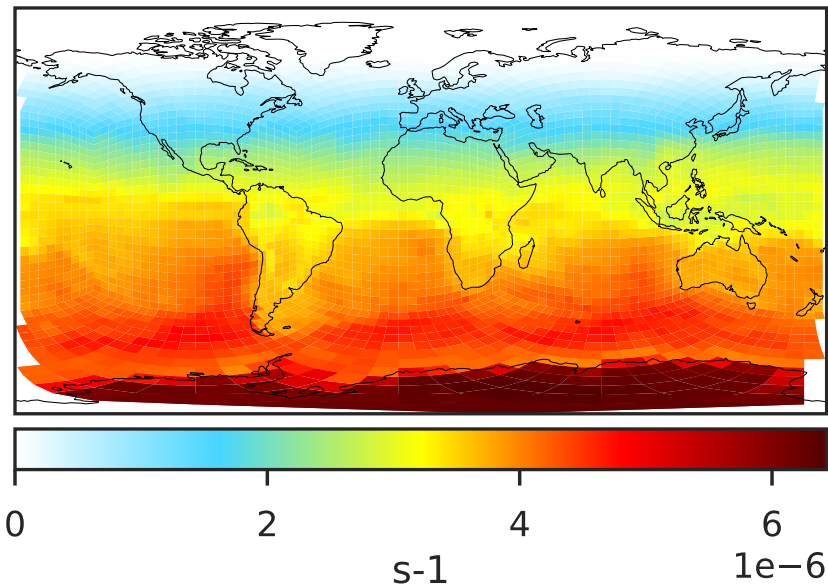


Ratio (1x1.25)
Dev/Ref, Fixed Range

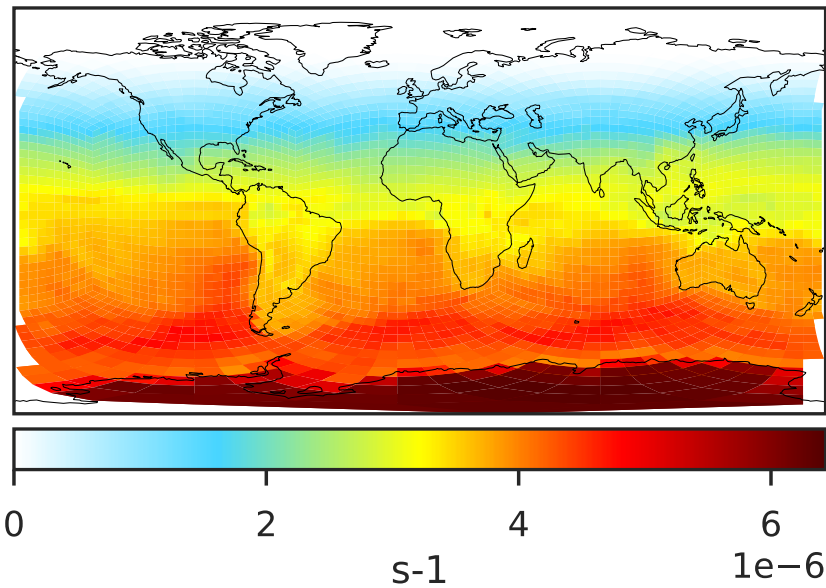


Jval_RA3P (Jan2019)

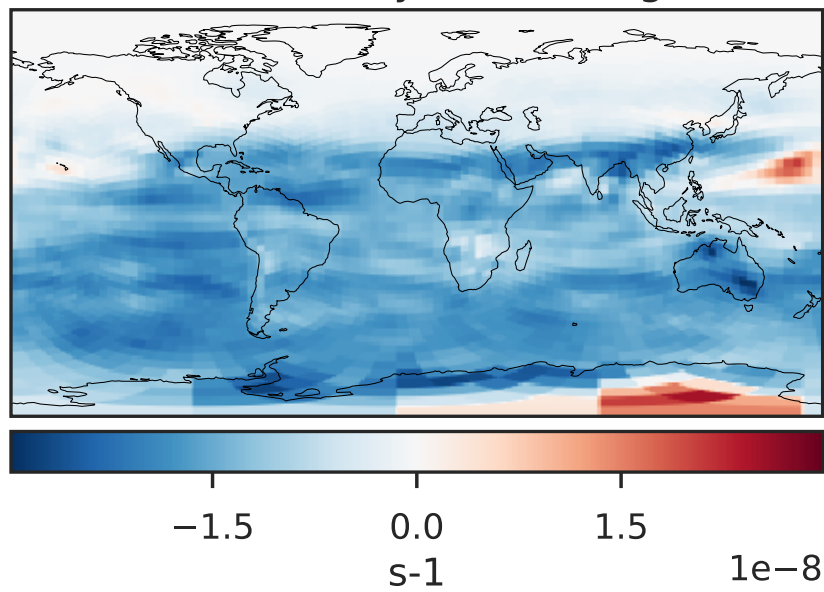
GCHP_14.0.0 (Ref)
c24



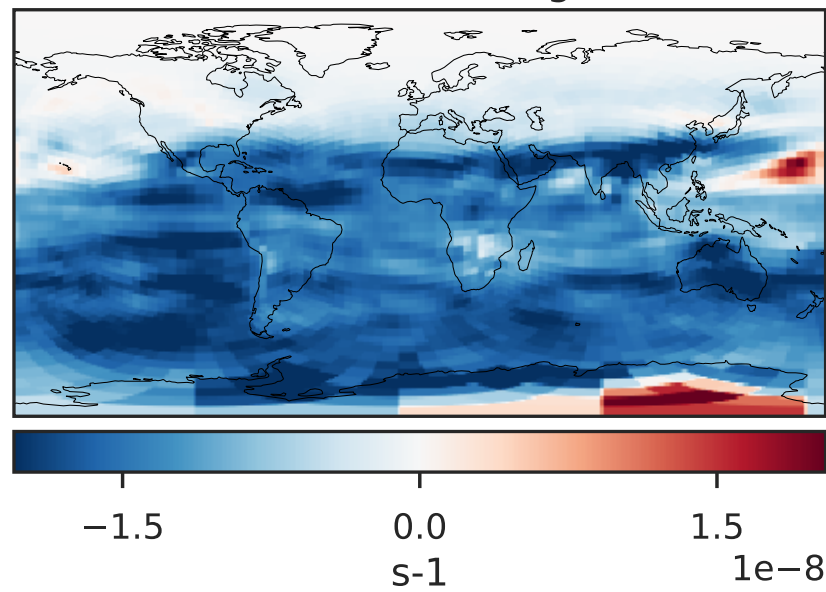
GCHP_14.2.0 (Dev)
c24



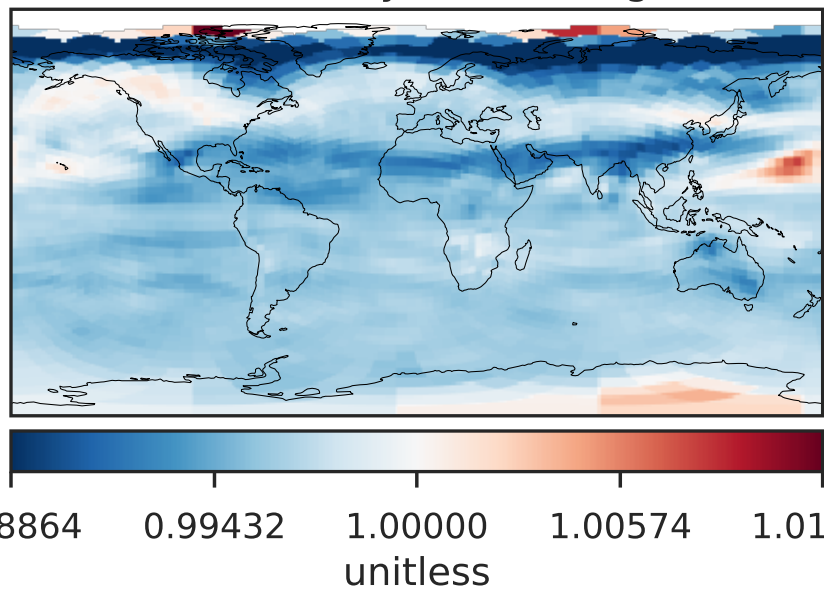
Difference (1x1.25)
Dev - Ref, Dynamic Range



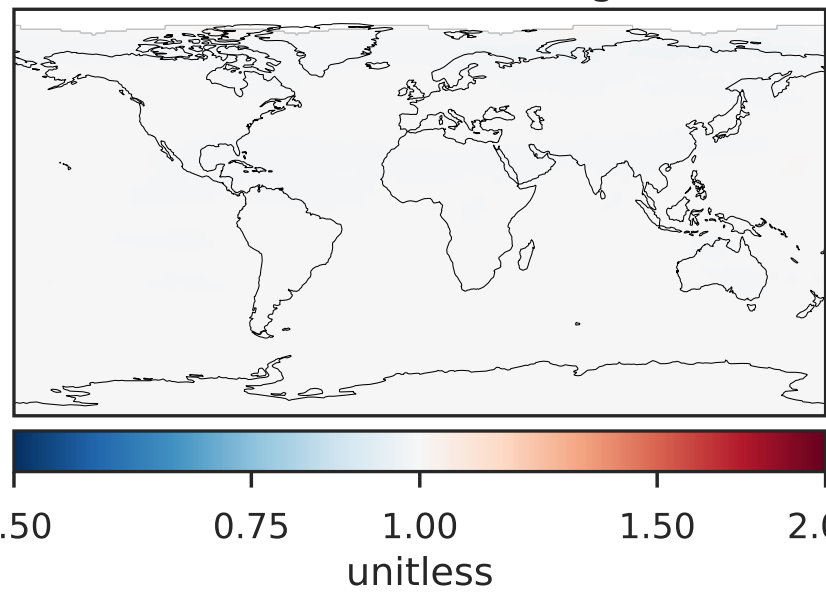
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

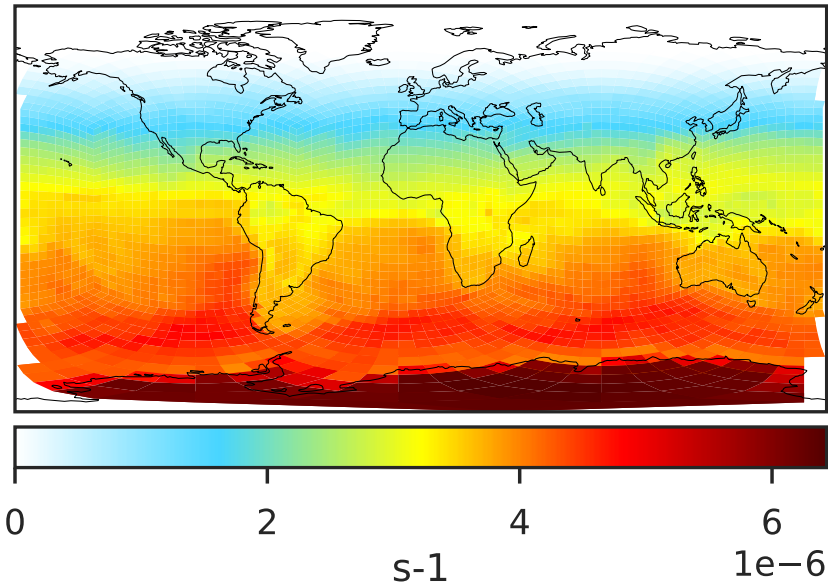


Ratio (1x1.25)
Dev/Ref, Fixed Range

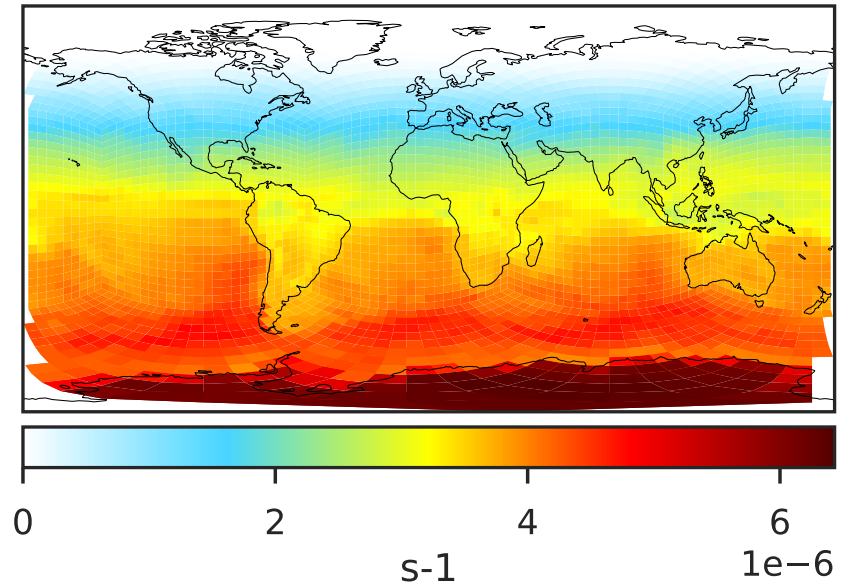


Jval_RB3P (Jan2019)

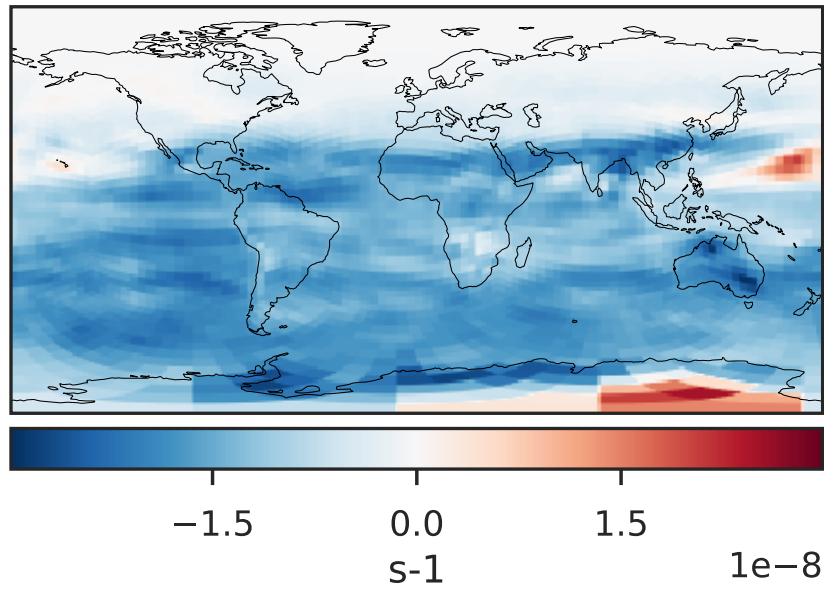
GCHP_14.0.0 (Ref)
c24



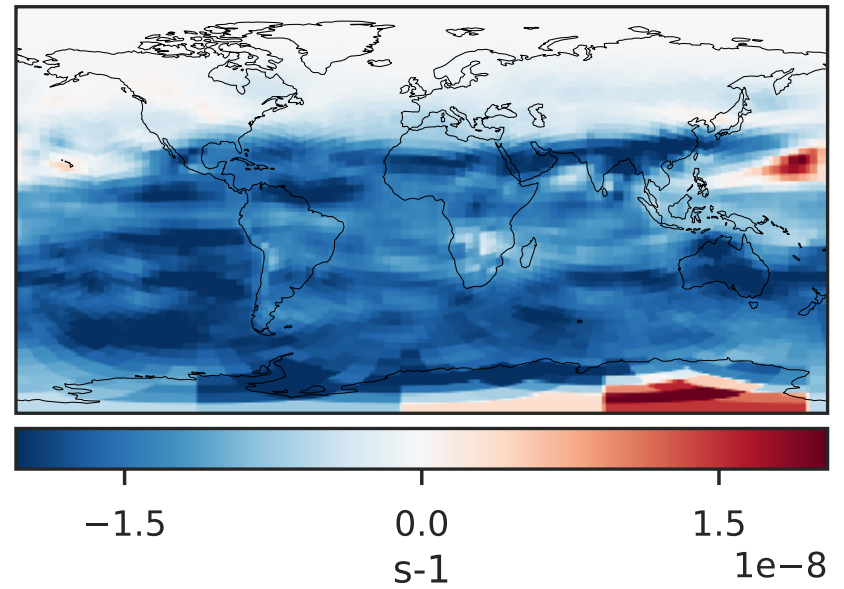
GCHP_14.2.0 (Dev)
c24



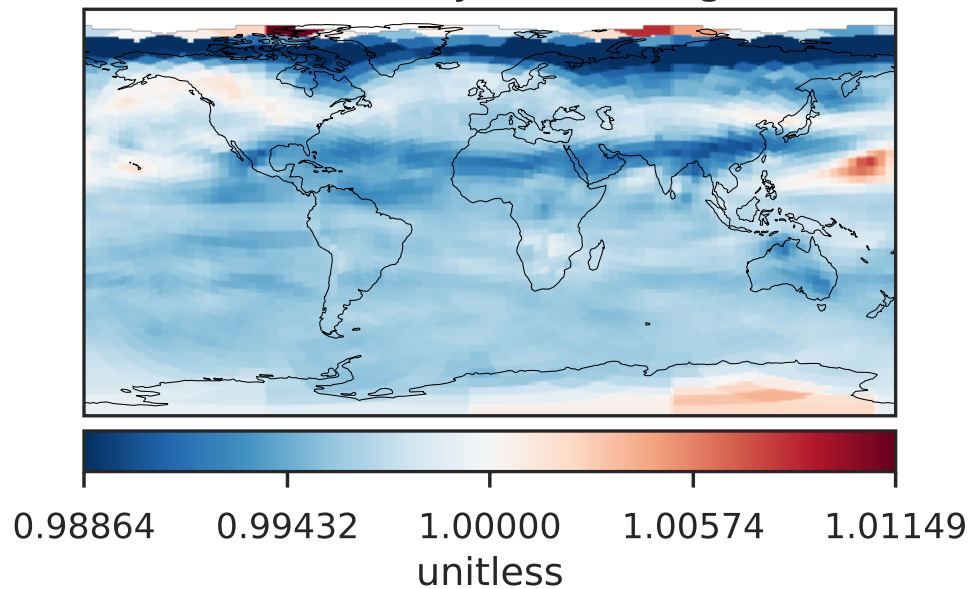
Difference (1x1.25)
Dev - Ref, Dynamic Range



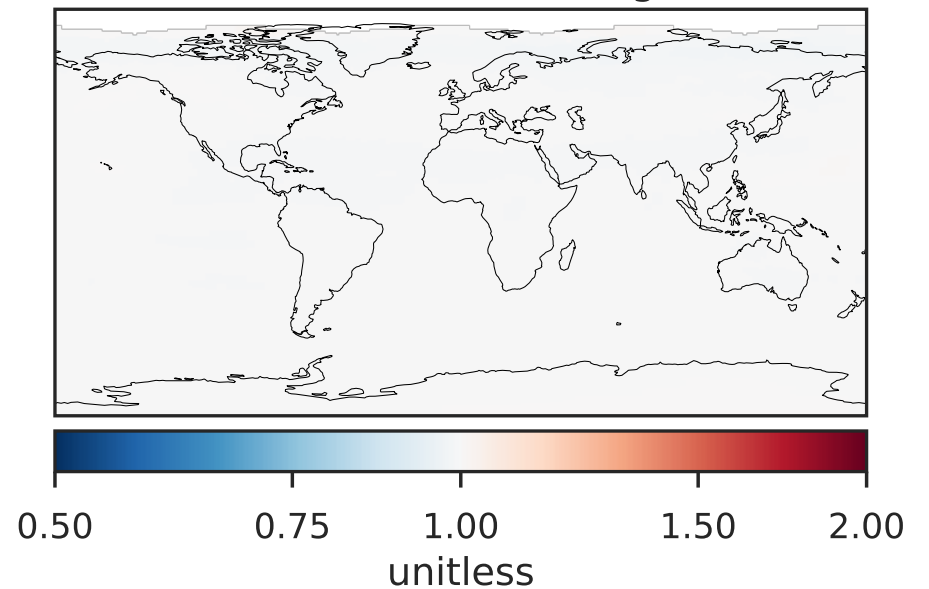
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

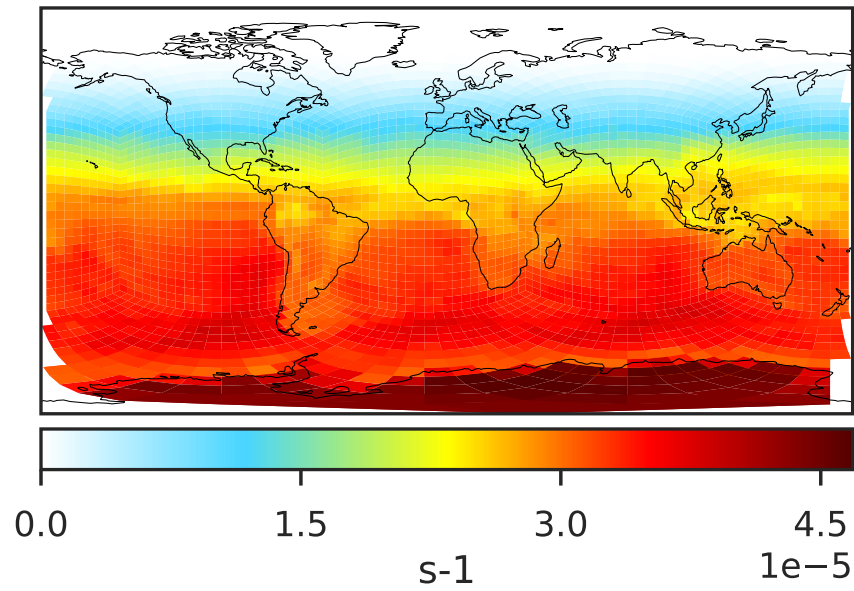


Ratio (1x1.25)
Dev/Ref, Fixed Range

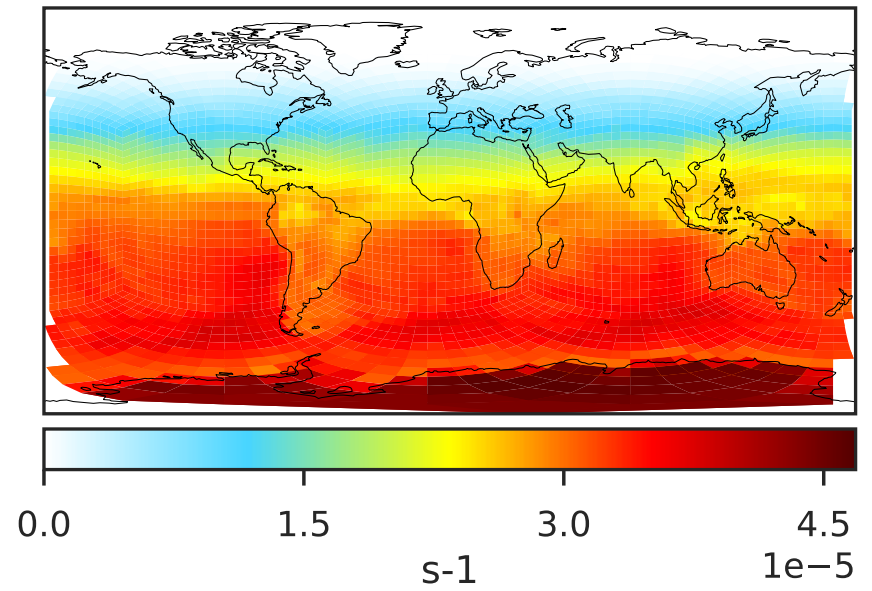


Jval_RCHO (Jan2019)

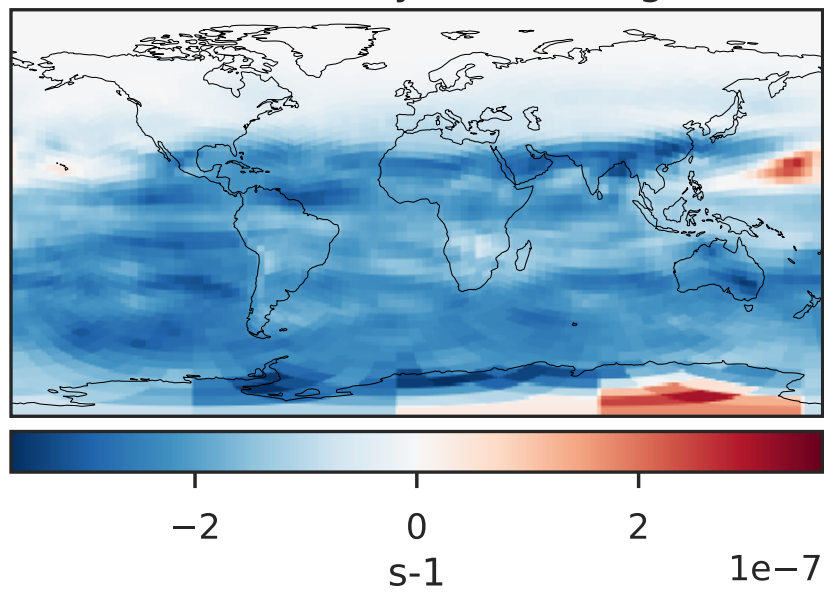
GCHP_14.0.0 (Ref)
c24



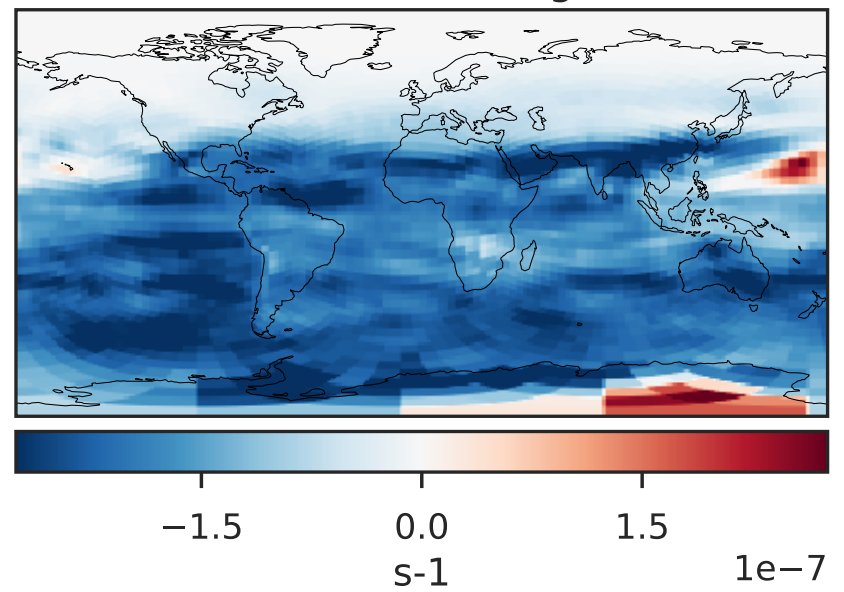
GCHP_14.2.0 (Dev)
c24



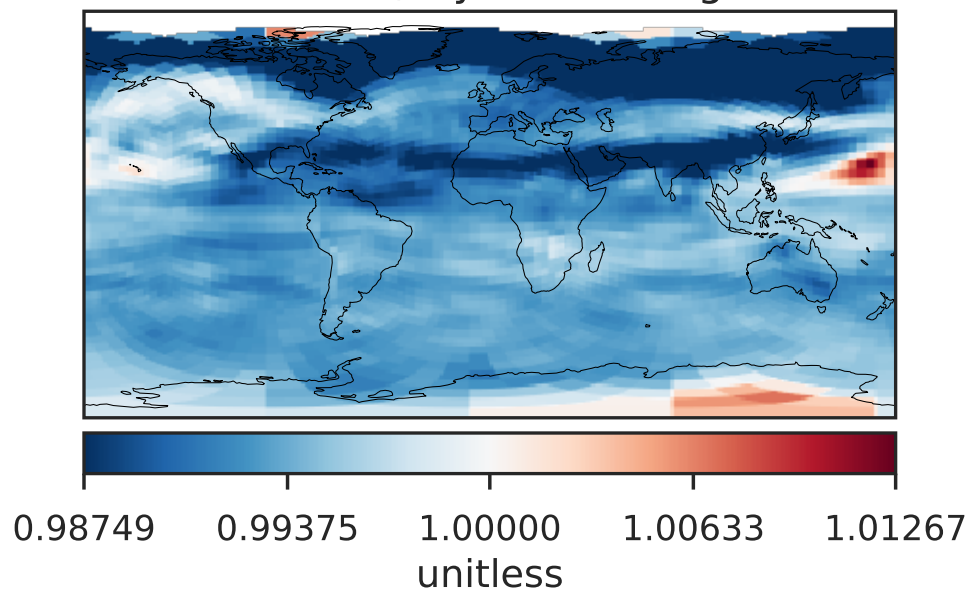
Difference (1x1.25)
Dev - Ref, Dynamic Range



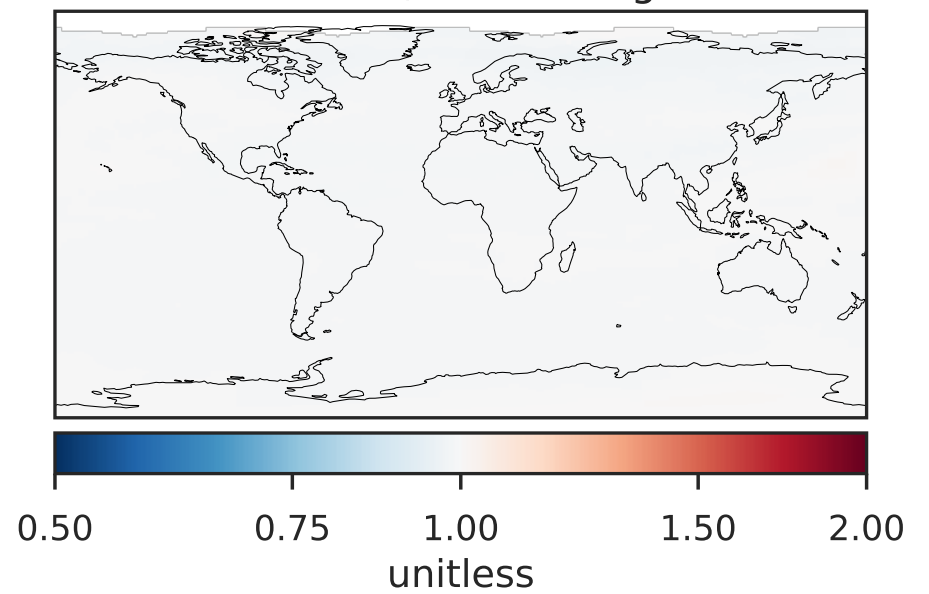
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

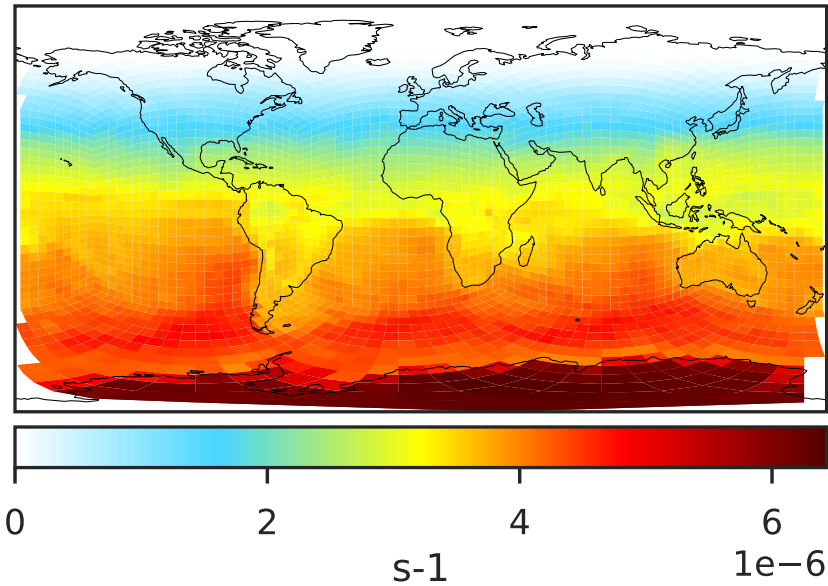


Ratio (1x1.25)
Dev/Ref, Fixed Range

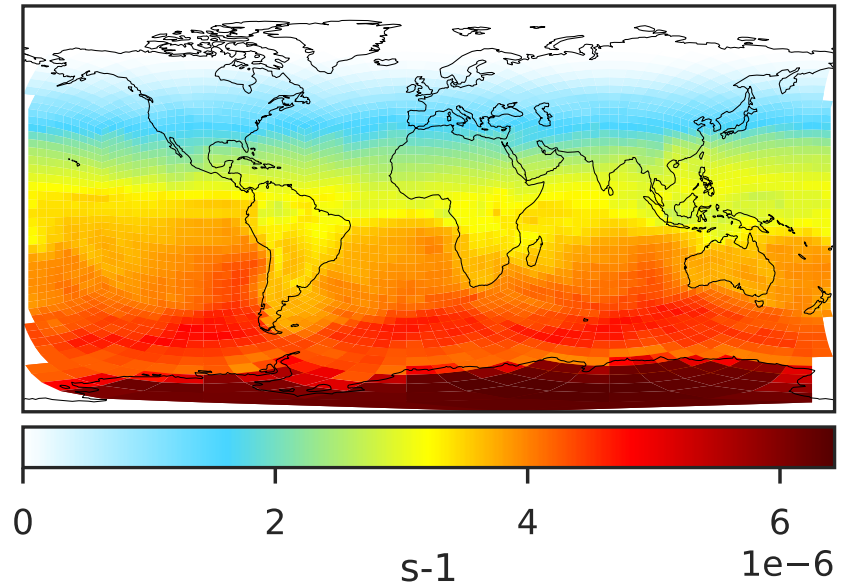


Jval_RIPA (Jan2019)

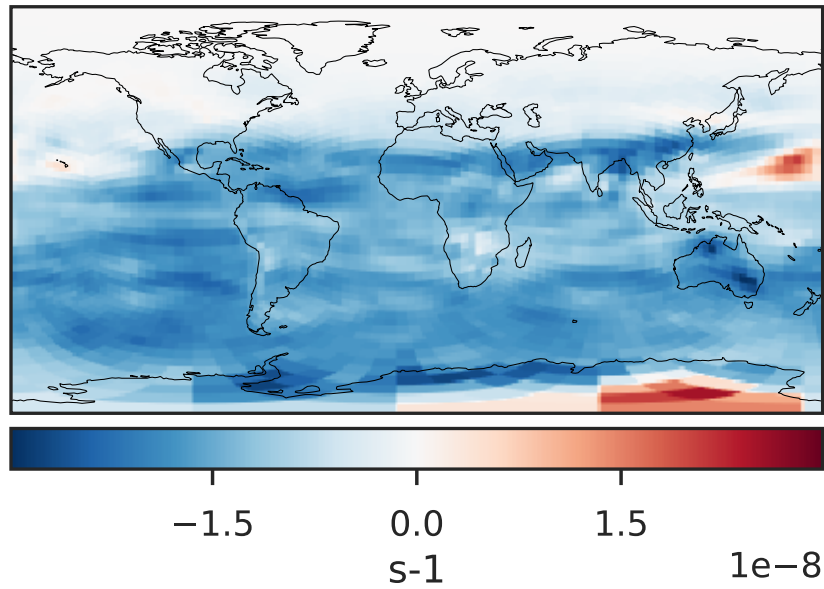
GCHP_14.0.0 (Ref)
c24



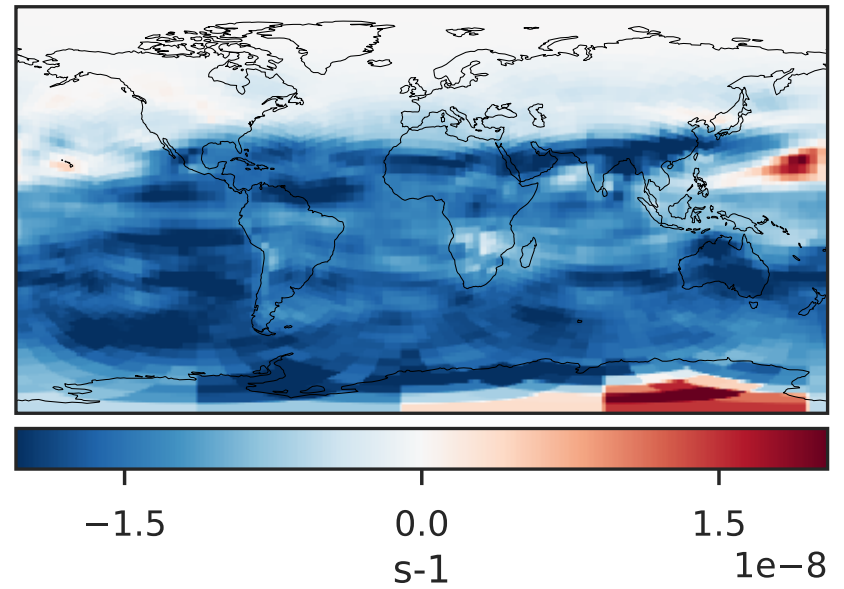
GCHP_14.2.0 (Dev)
c24



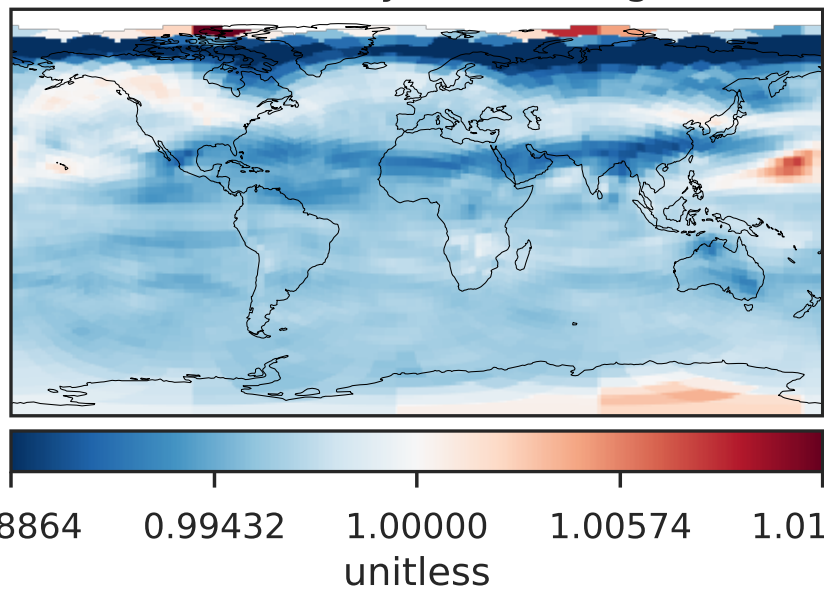
Difference (1x1.25)
Dev - Ref, Dynamic Range



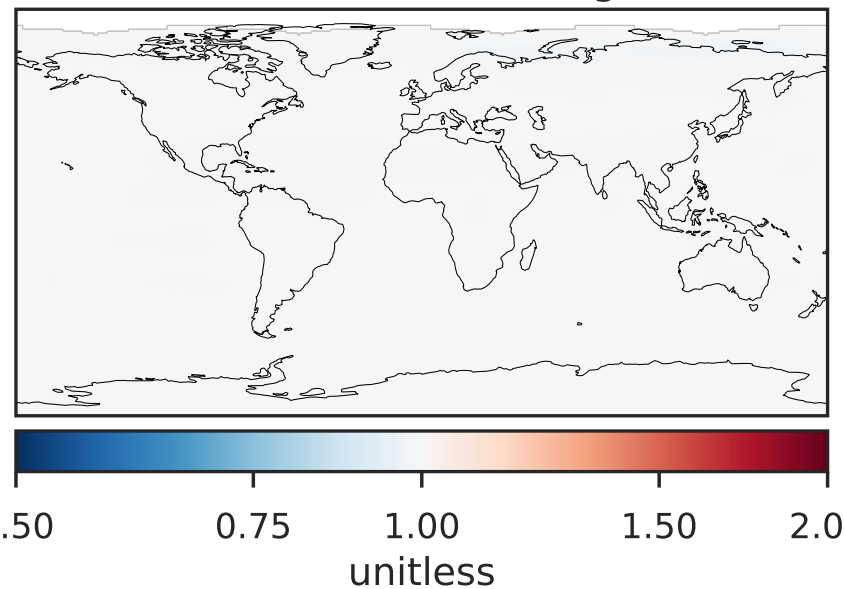
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

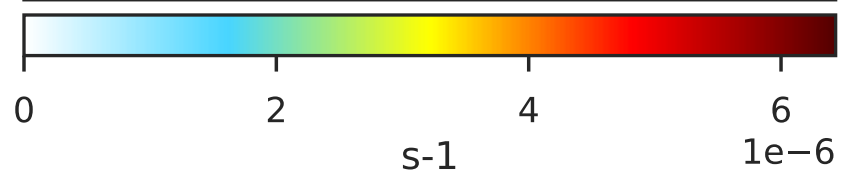
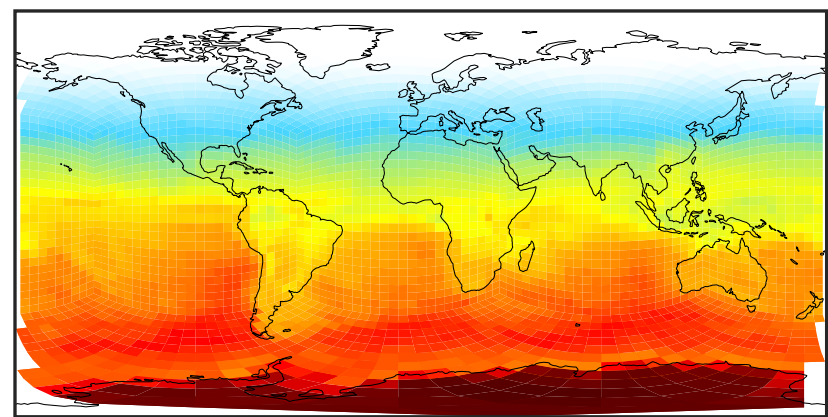


Ratio (1x1.25)
Dev/Ref, Fixed Range

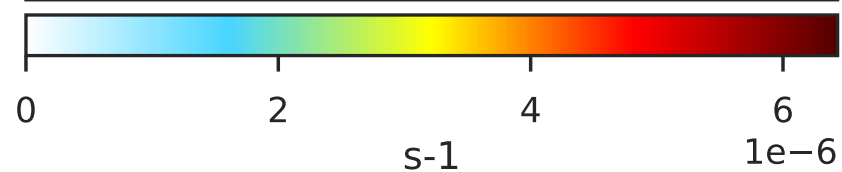
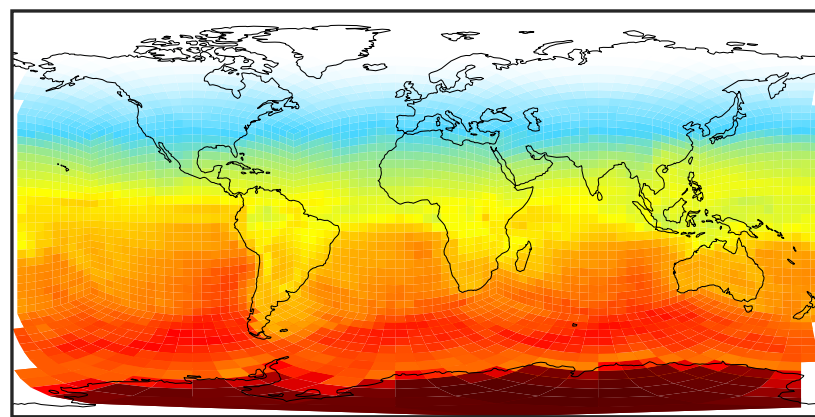


Jval_RIPB (Jan2019)

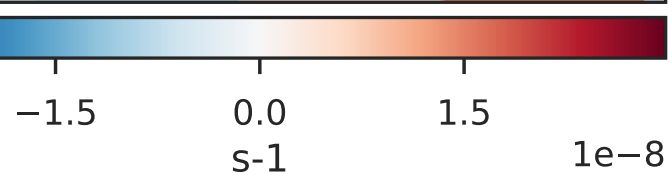
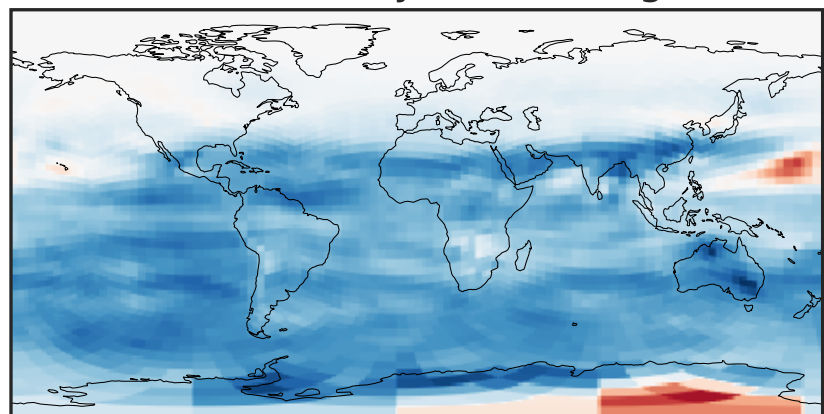
GCHP_14.0.0 (Ref)
c24



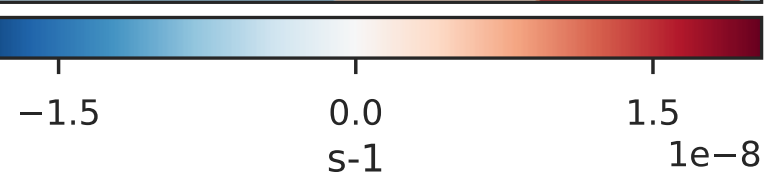
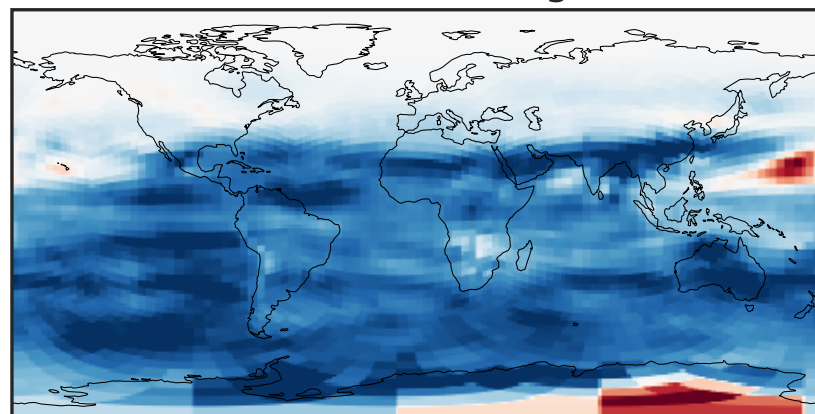
GCHP_14.2.0 (Dev)
c24



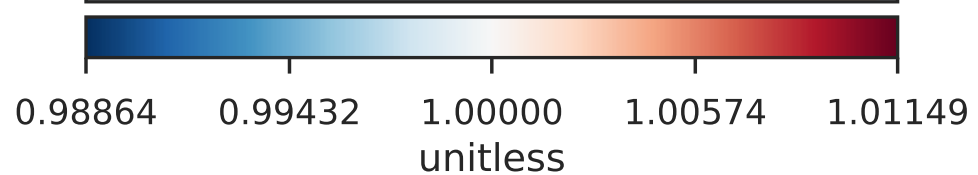
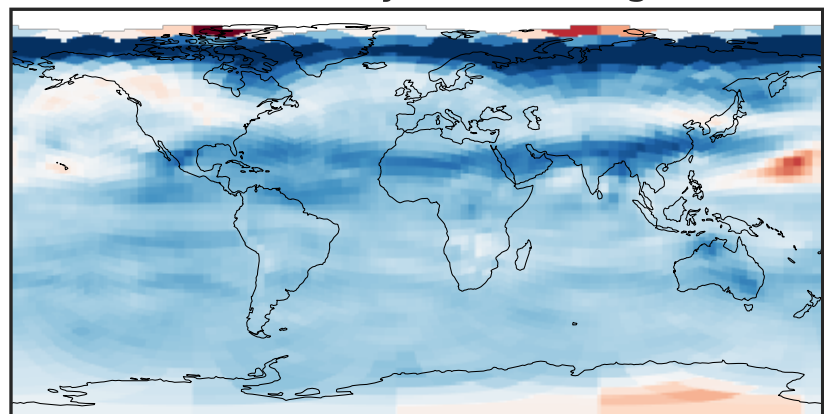
Difference (1x1.25)
Dev - Ref, Dynamic Range



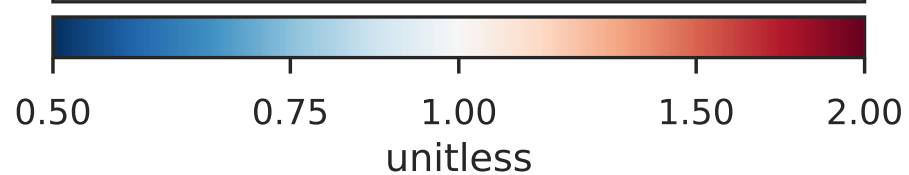
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

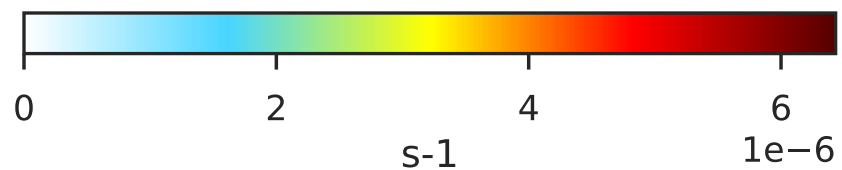
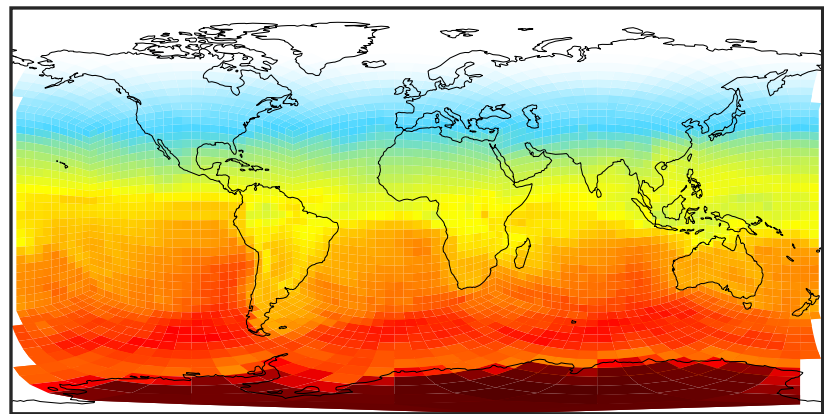


Ratio (1x1.25)
Dev/Ref, Fixed Range

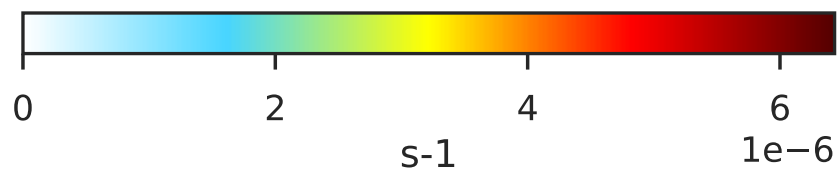
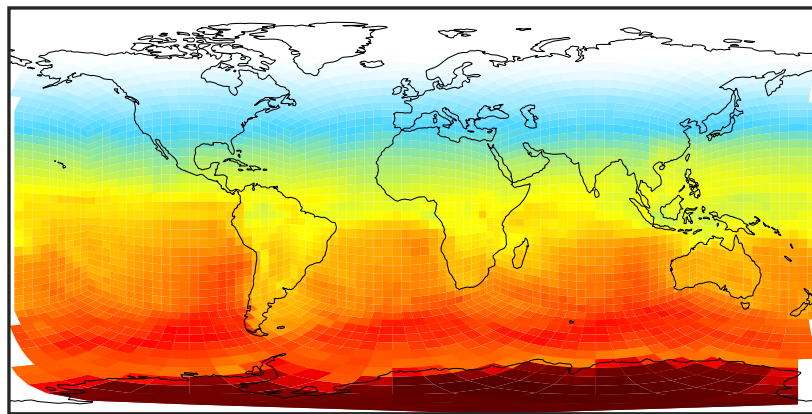


Jval_RIPC (Jan2019)

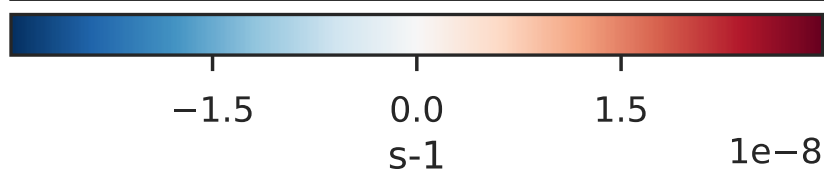
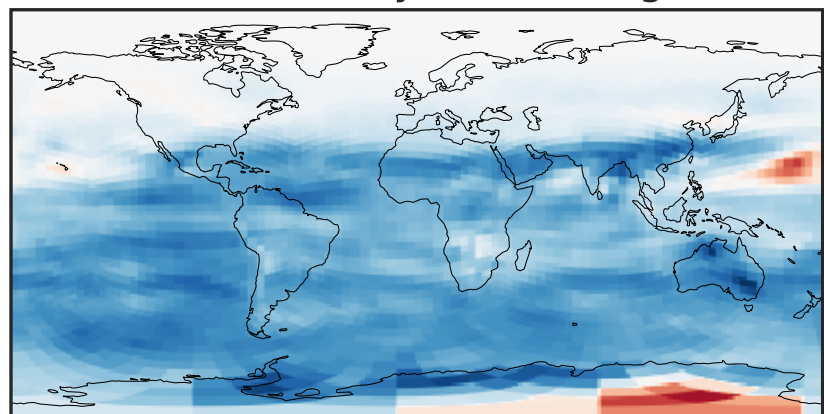
GCHP_14.0.0 (Ref)
c24



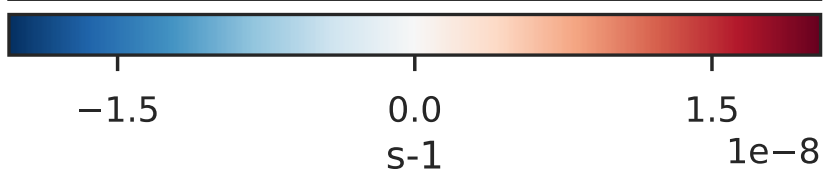
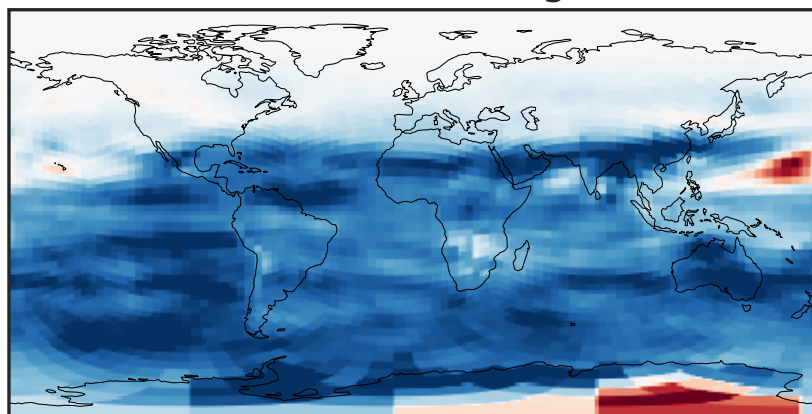
GCHP_14.2.0 (Dev)
c24



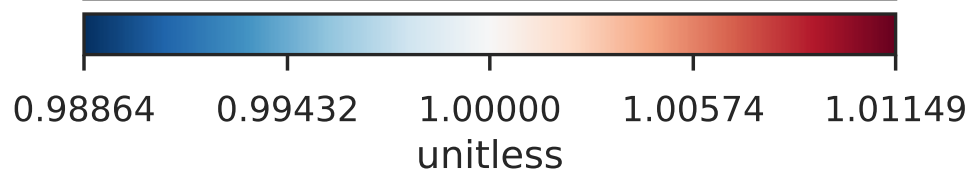
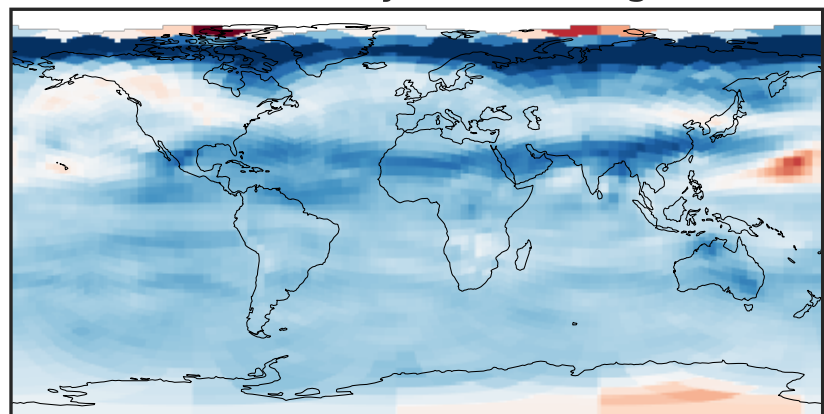
Difference (1x1.25)
Dev - Ref, Dynamic Range



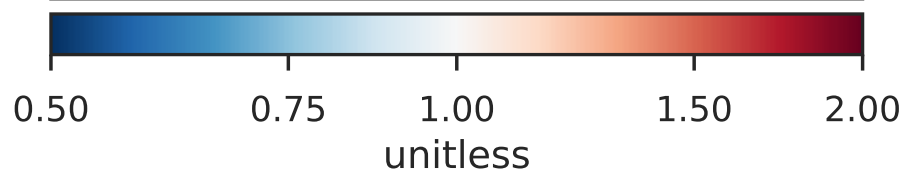
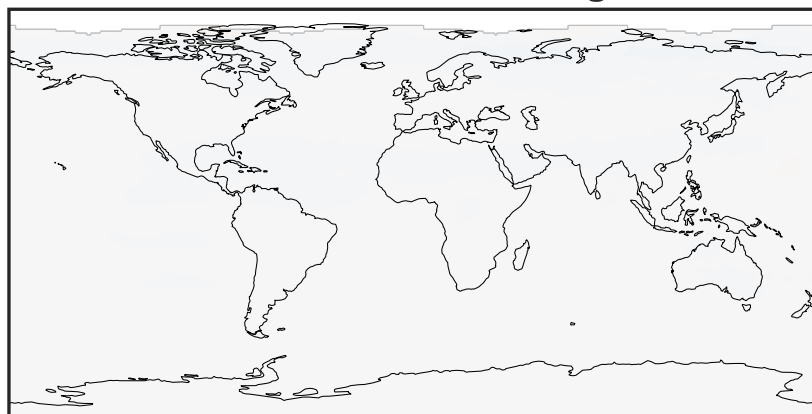
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

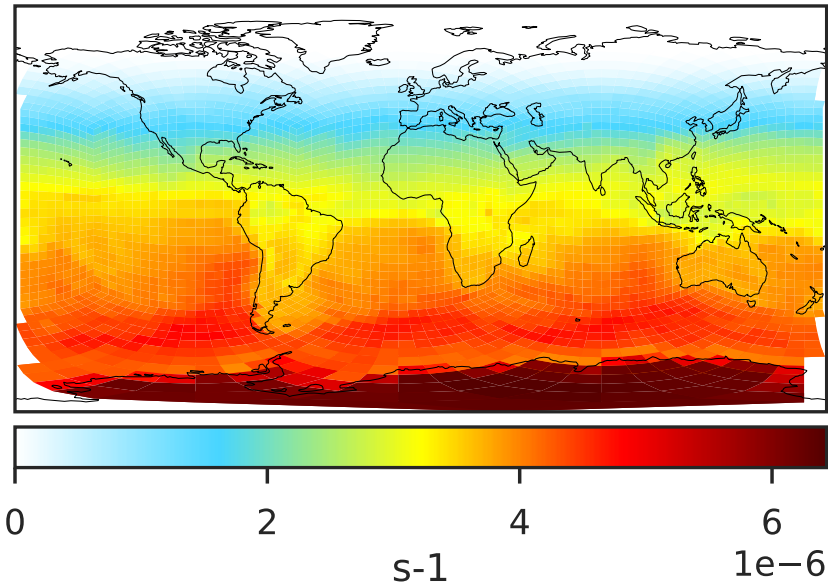


Ratio (1x1.25)
Dev/Ref, Fixed Range

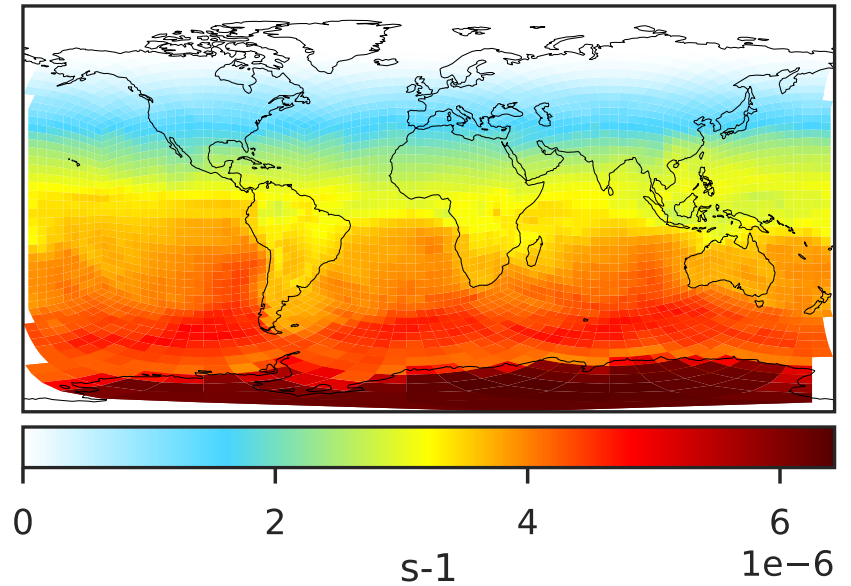


Jval_RIPD (Jan2019)

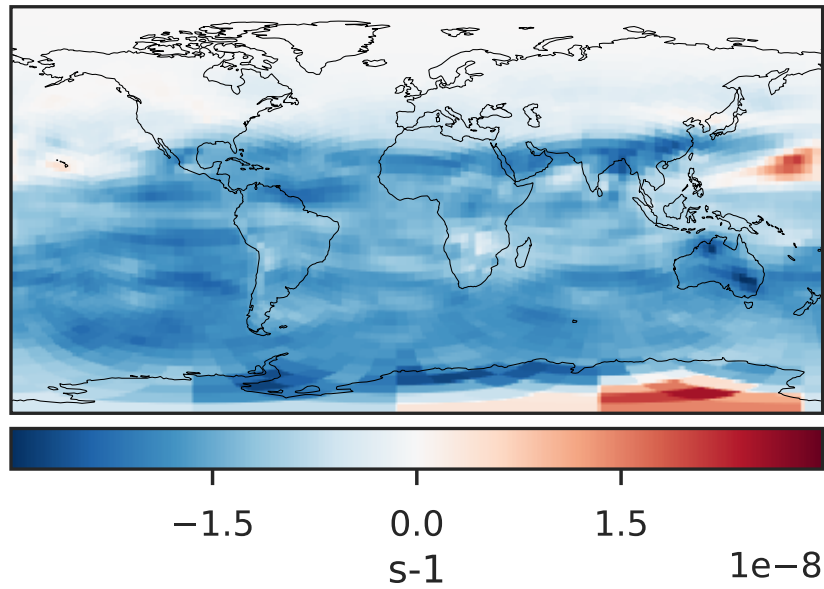
GCHP_14.0.0 (Ref)
c24



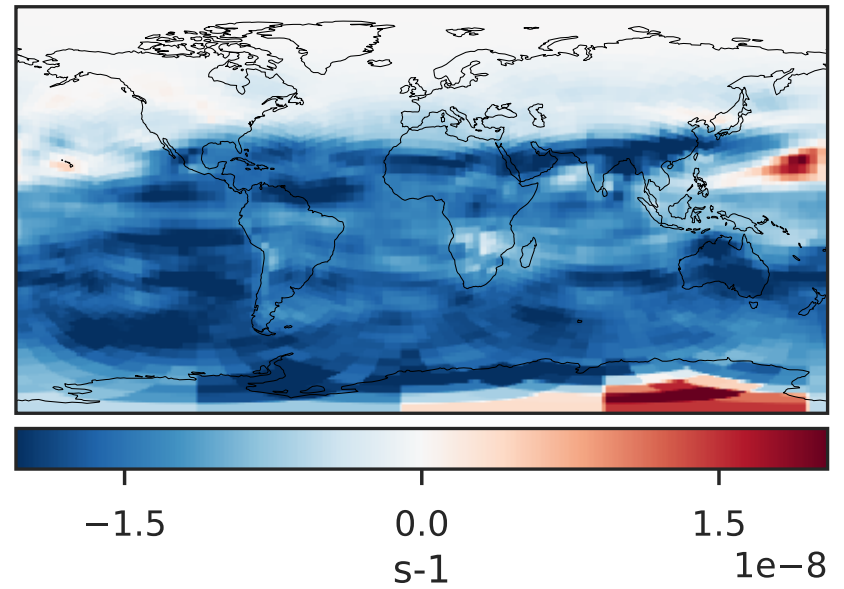
GCHP_14.2.0 (Dev)
c24



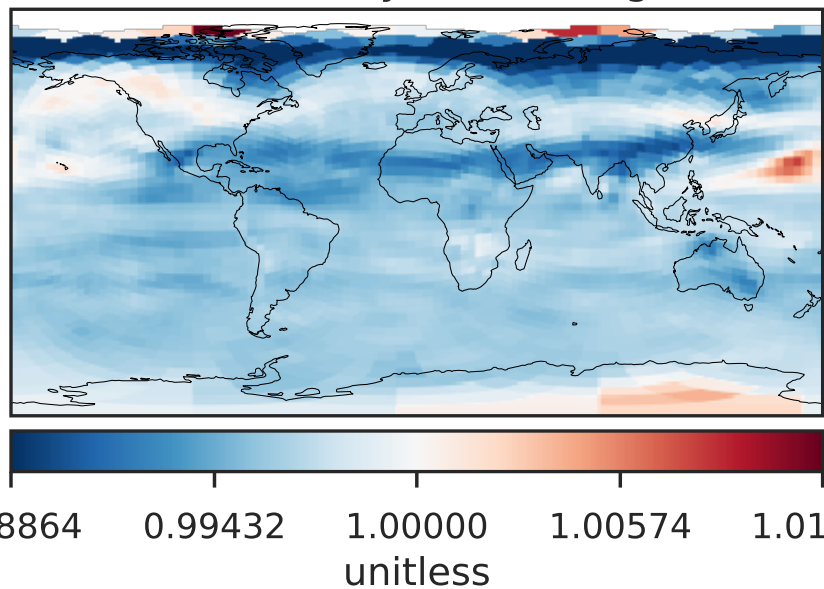
Difference (1x1.25)
Dev - Ref, Dynamic Range



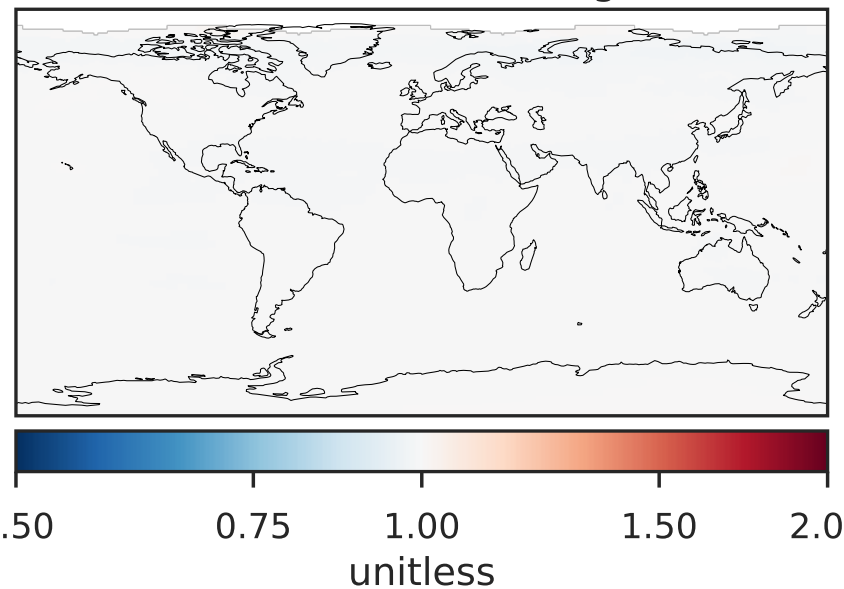
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

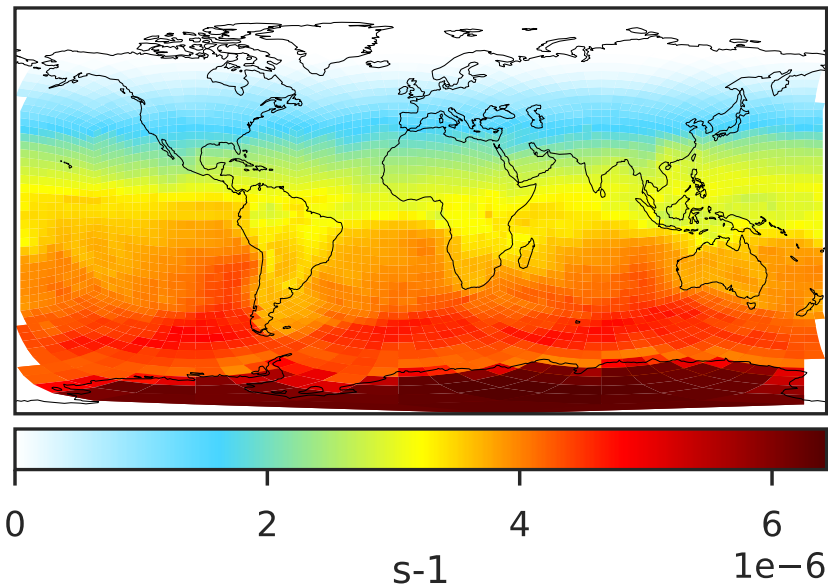


Ratio (1x1.25)
Dev/Ref, Fixed Range

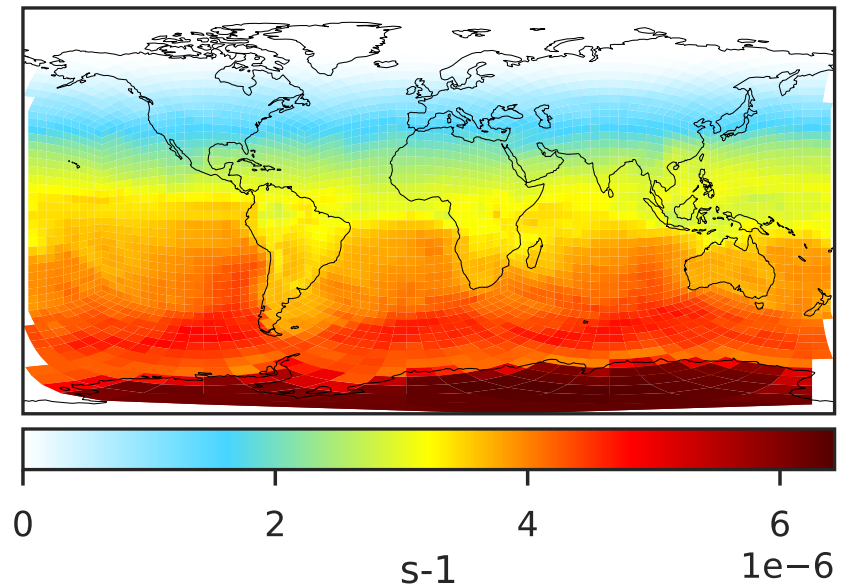


Jval_RP (Jan2019)

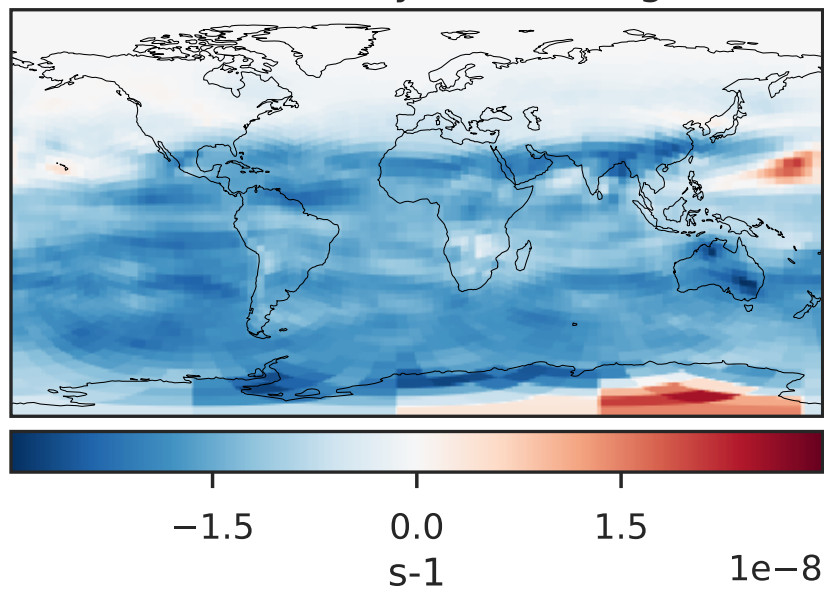
GCHP_14.0.0 (Ref)
c24



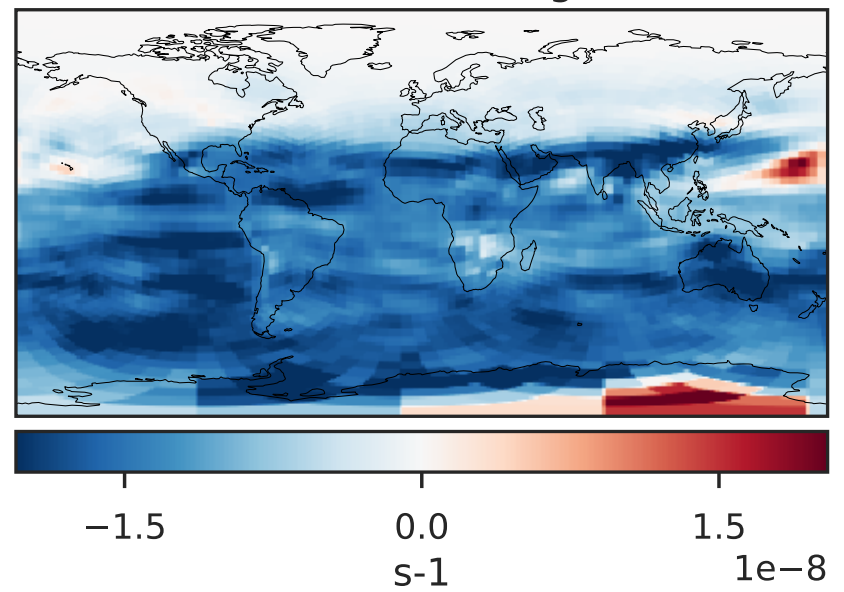
GCHP_14.2.0 (Dev)
c24



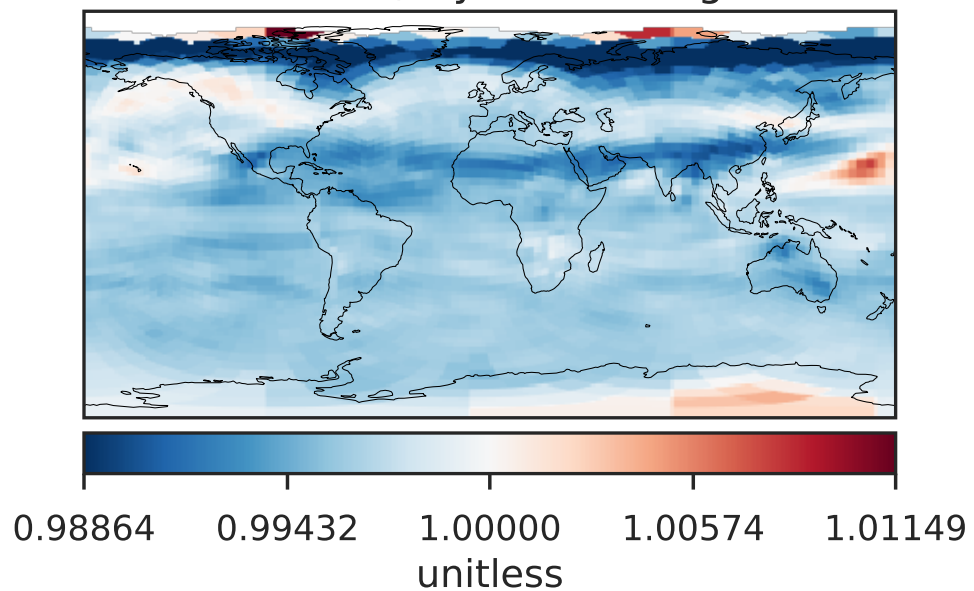
Difference (1x1.25)
Dev - Ref, Dynamic Range



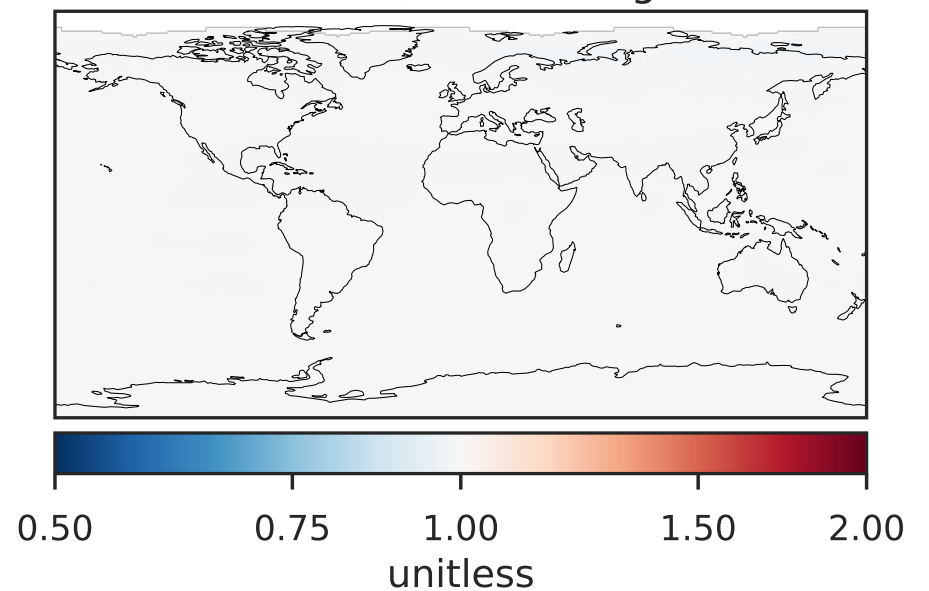
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range



Ratio (1x1.25)
Dev/Ref, Fixed Range



Jval_SO4 (Jan2019)

GCHP_14.0.0 (Ref)
c24



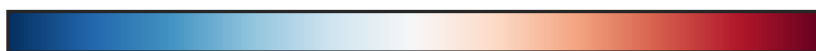
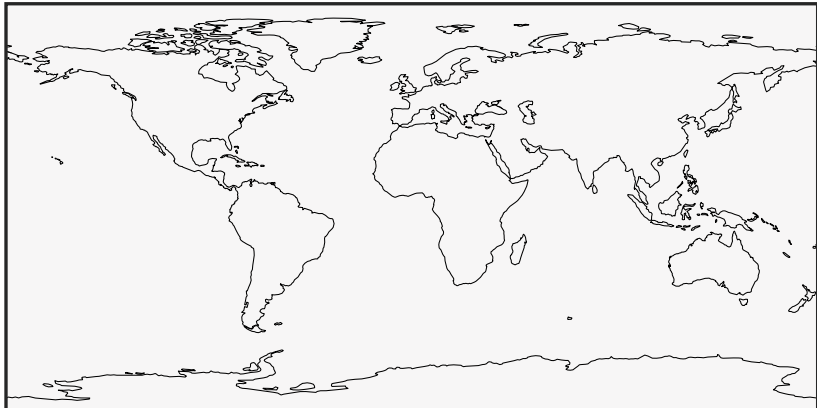
Zero throughput domain
s-1

GCHP_14.2.0 (Dev)
c24



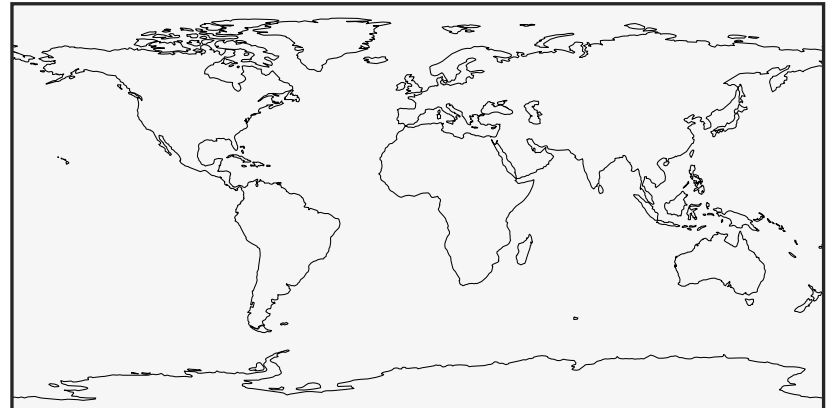
Zero throughput domain
s-1

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



Zero throughput domain
s-1

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



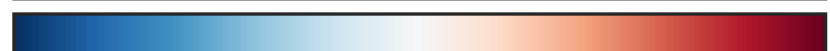
Zero throughput domain
s-1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



Undefined throughput domain
unitless

Ratio (1x1.25)
Dev/Ref, Fixed Range



Undefined throughput domain
unitless