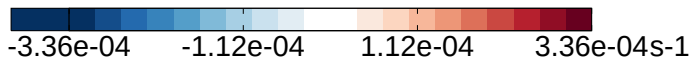
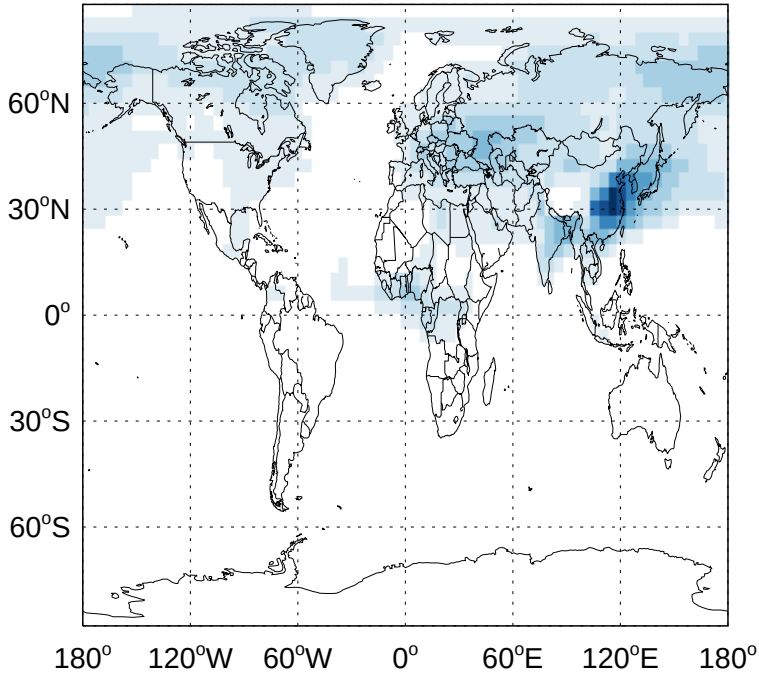


GEOS-Chem J-Values at surface and 500 hPa

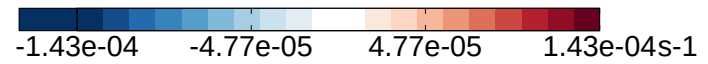
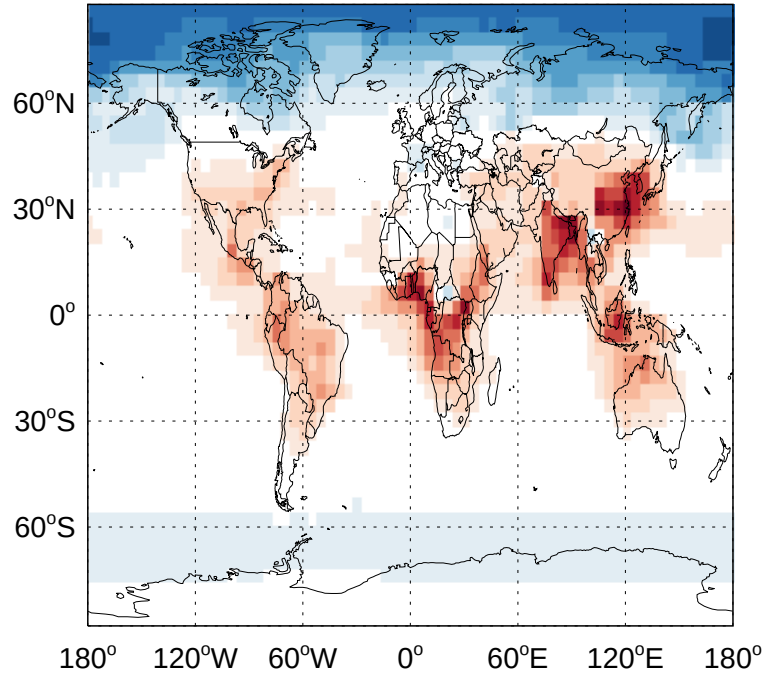
v11-02e-Run0 - v11-02d-Run1

JNO2 - J-Value Diff @ surface for Apr



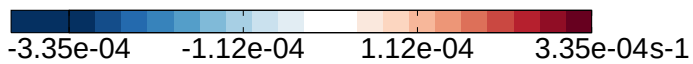
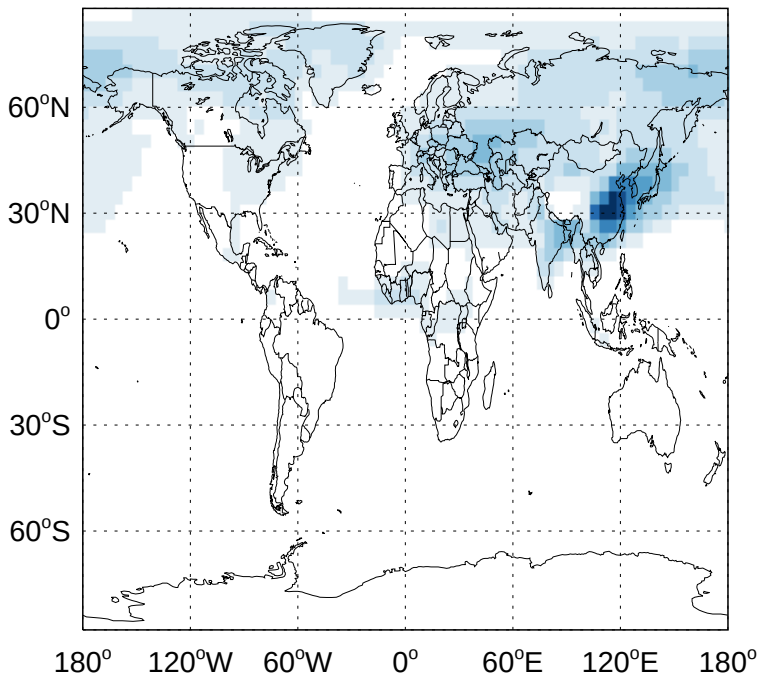
v11-02e-Run0 - v11-02d-Run1

JNO2 - J-Value Diff @ 500 hPa for Apr



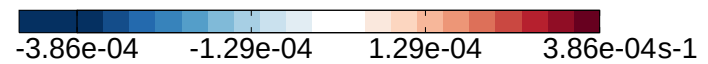
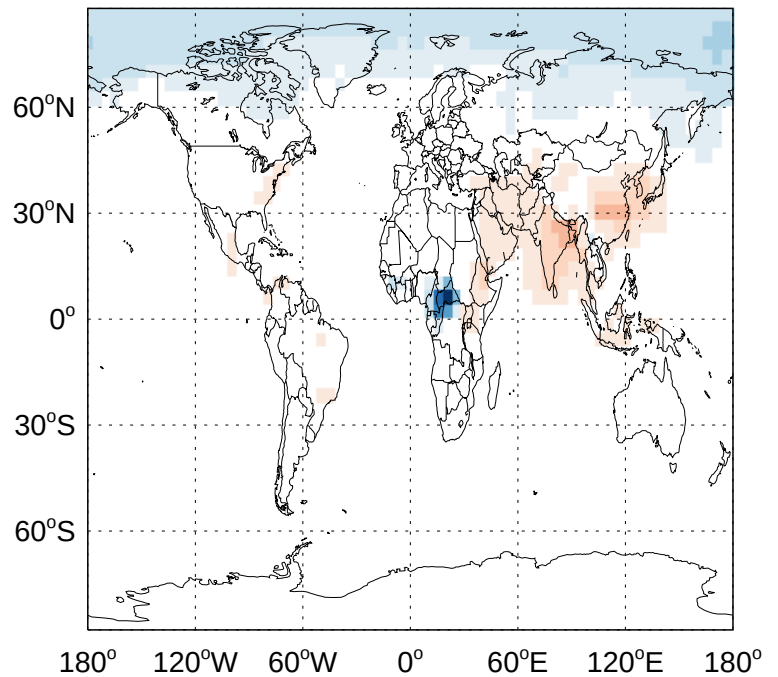
v11-02e-Run0 - v11-02c-Run0

JNO2 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

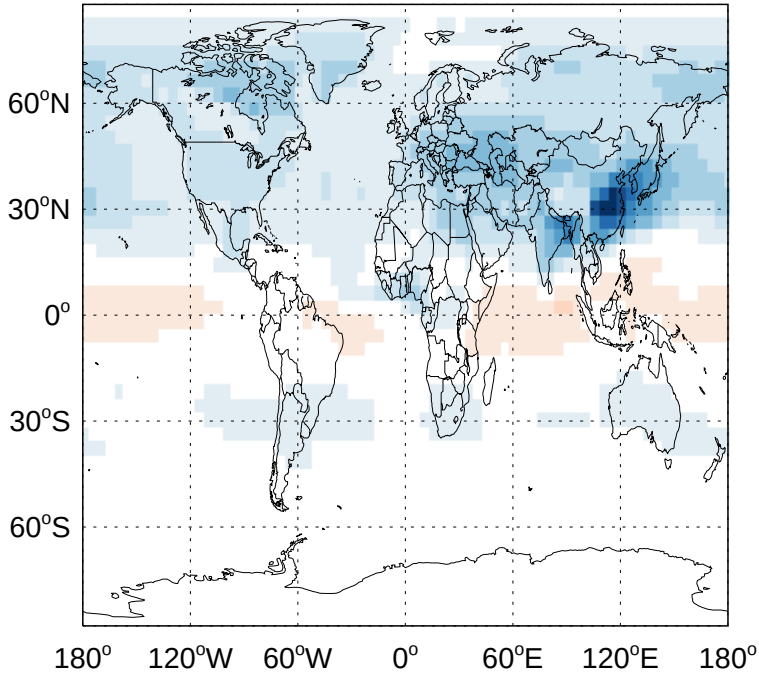
JNO2 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

v11-02e-Run0 - v11-02d-Run1

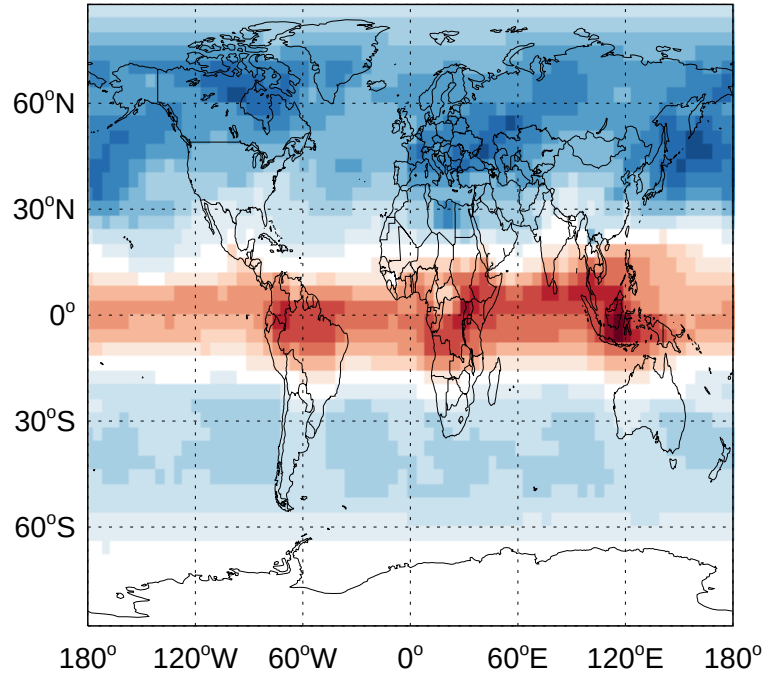
JHNO3 - J-Value Diff @ surface for Apr



A horizontal color scale bar representing the difference in the first eigenvalue. The scale ranges from $-3.19 \times 10^{-8} \text{ s}^{-1}$ (dark blue) to $3.19 \times 10^{-8} \text{ s}^{-1}$ (dark red), with intermediate labels at -1.06×10^{-8} and 1.06×10^{-8} .

v11-02e-Run0 - v11-02d-Run1

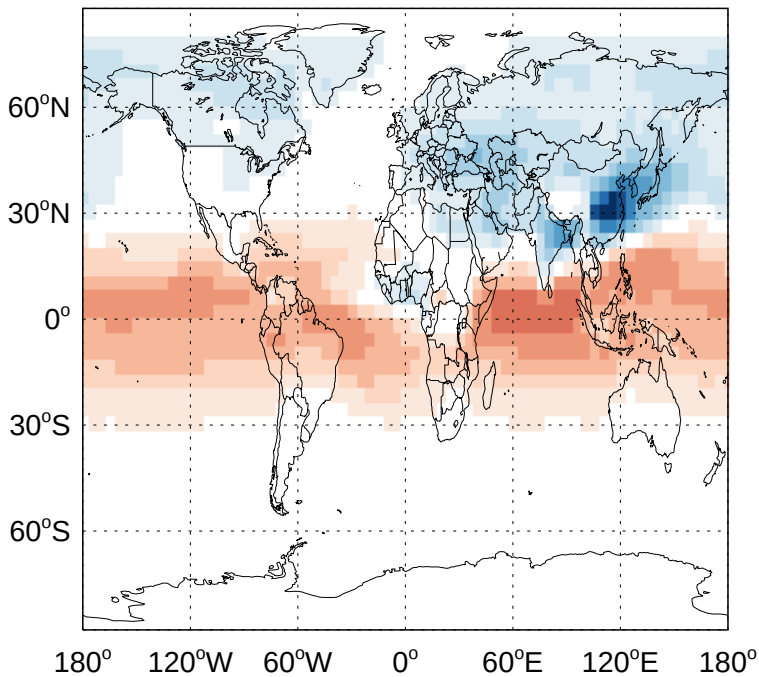
JHNO3 - J-Value Diff @ 500 hPa for Apr



A horizontal color bar representing the difference in the first eigenvalue. The scale ranges from -1.76×10^{-8} to $1.76 \times 10^{-8} \text{ s}^{-1}$. The color transitions from dark blue on the left to dark red on the right, passing through white at zero.

v11-02e-Run0 - v11-02c-Run0

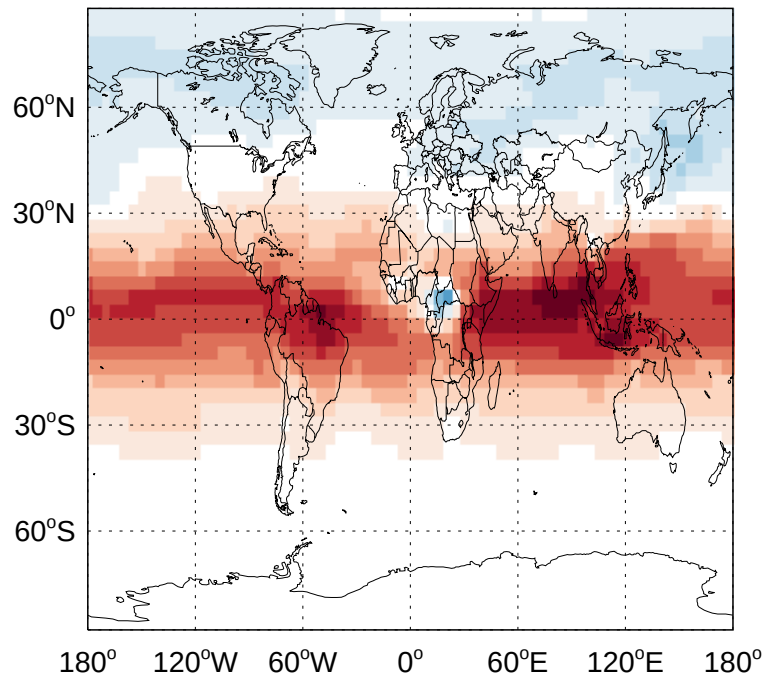
JHNO3 - J-Value Diff @ surface for Apr



A horizontal color bar representing the difference in the first eigenvalue. The scale ranges from -3.09e-08 to 3.09e-08 s-1. The color transitions from dark blue on the left to dark red on the right, passing through white at the zero point.

v11-02e-Run0 - v11-02c-Run0

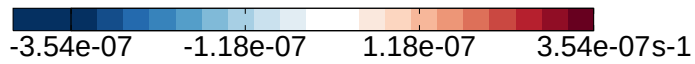
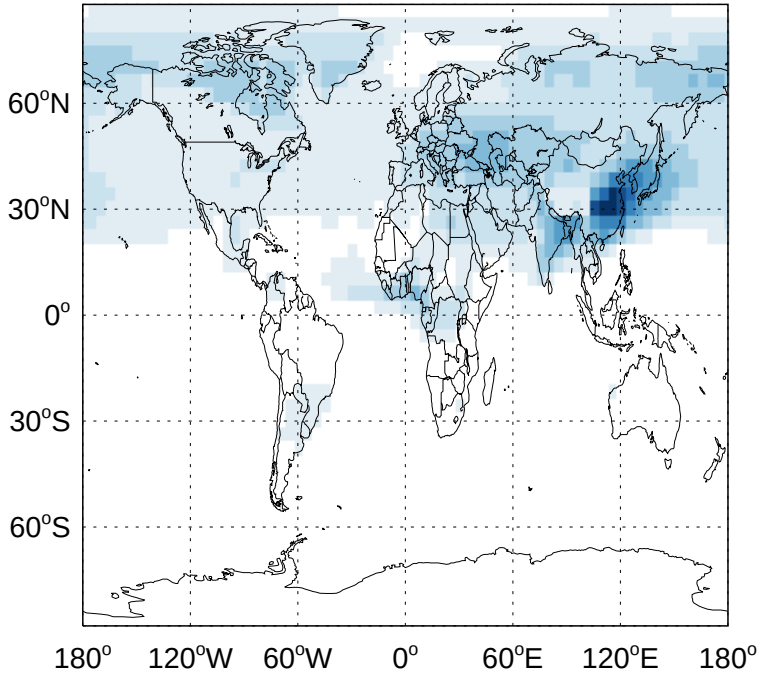
JHNO3 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

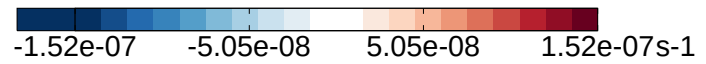
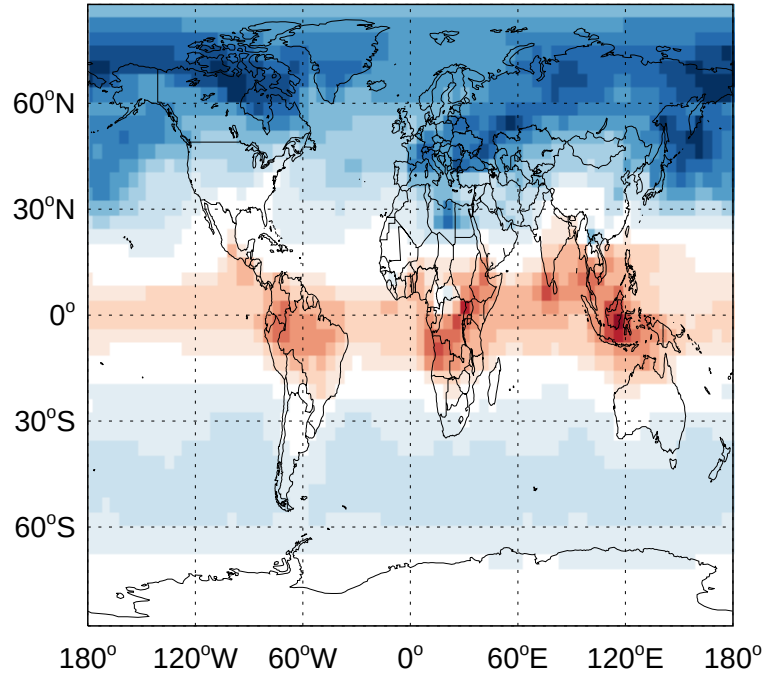
v11-02e-Run0 - v11-02d-Run1

JH2O2 - J-Value Diff @ surface for Apr



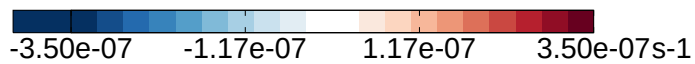
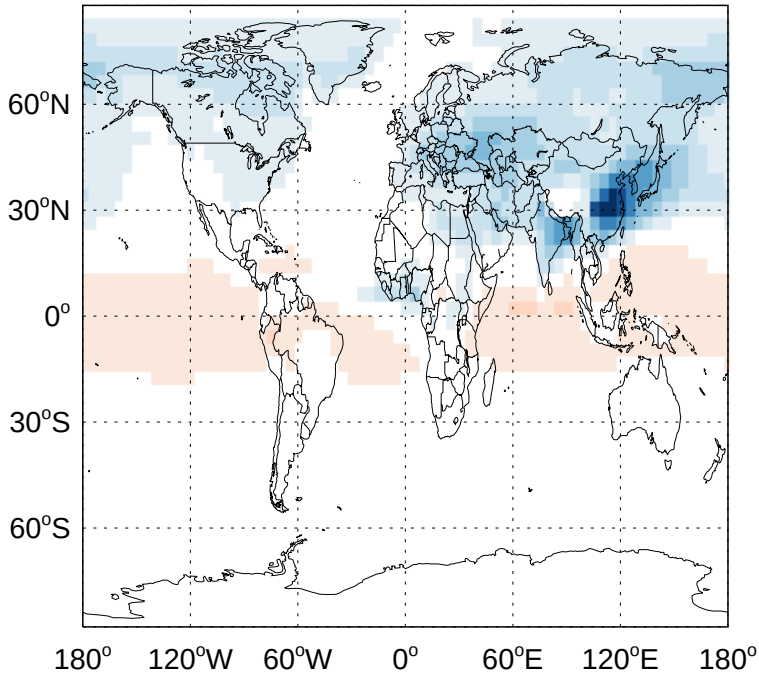
v11-02e-Run0 - v11-02d-Run1

JH2O2 - J-Value Diff @ 500 hPa for Apr



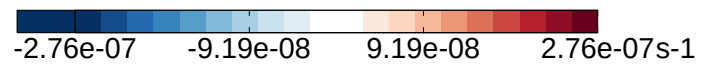
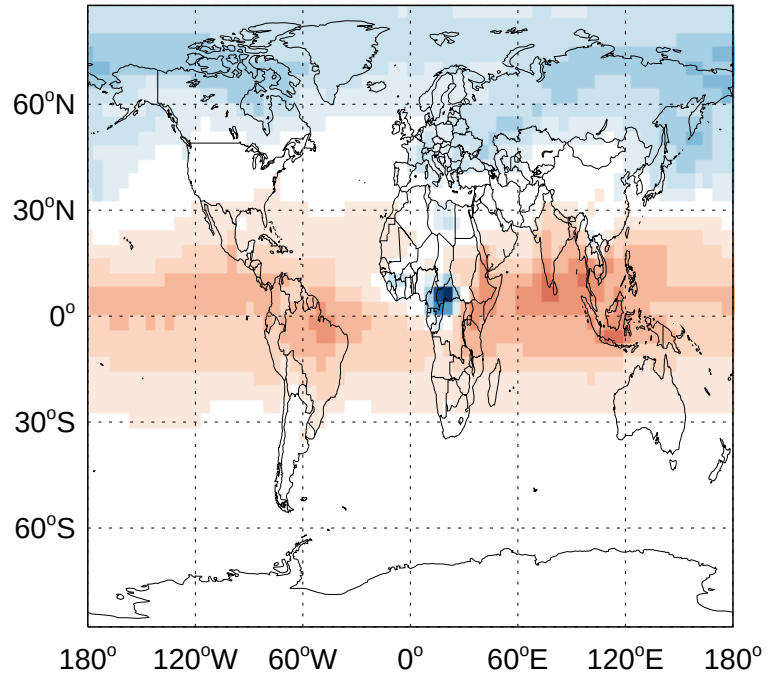
v11-02e-Run0 - v11-02c-Run0

JH2O2 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

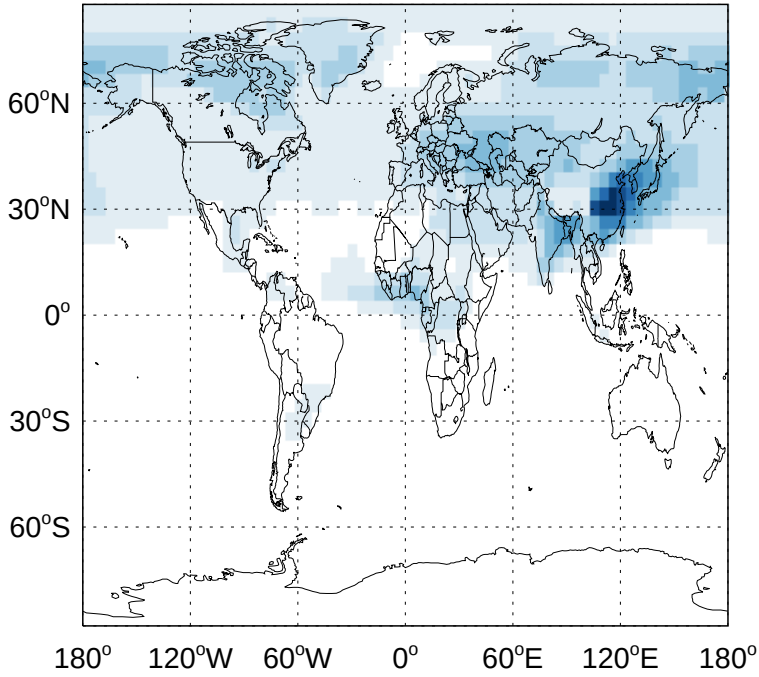
JH2O2 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

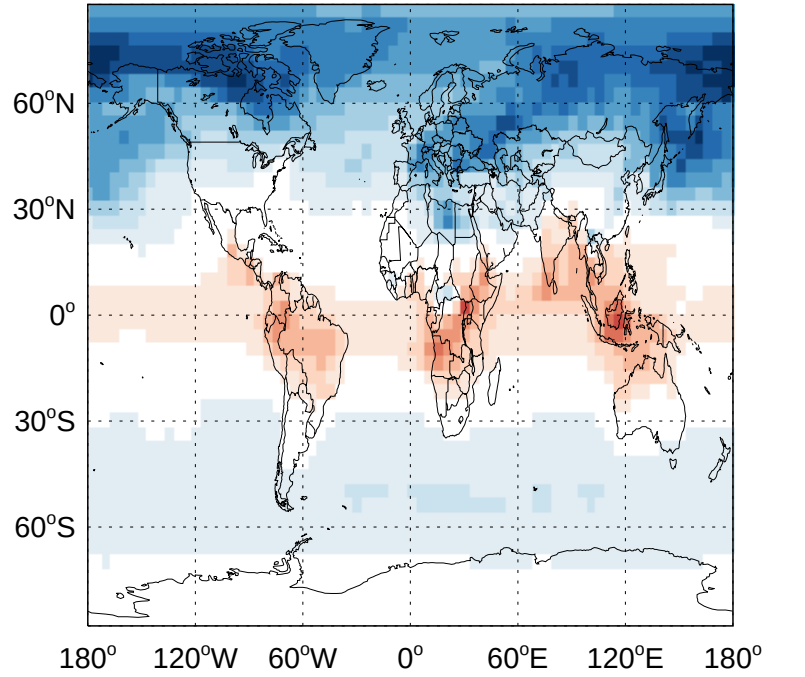
v11-02e-Run0 - v11-02d-Run1

JCH2O - J-Value Diff @ surface for Apr



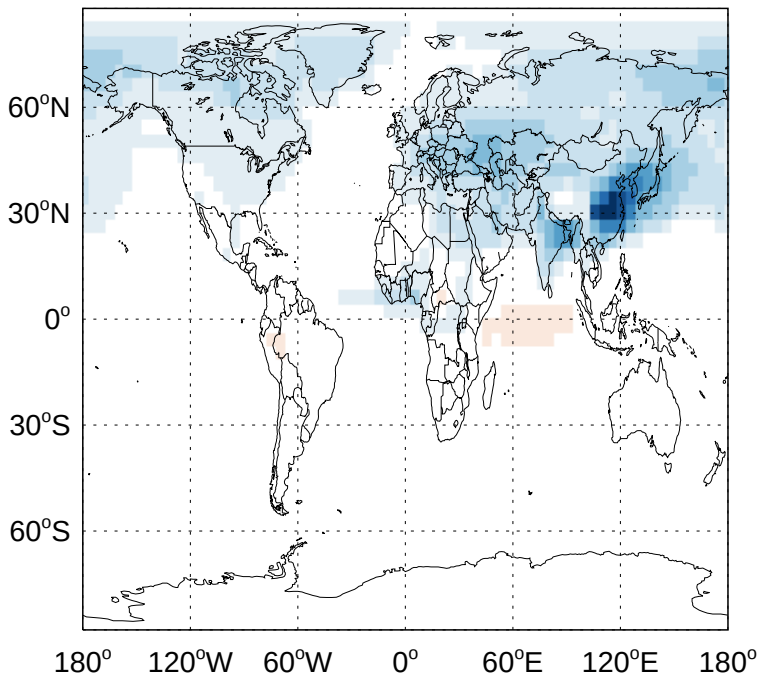
v11-02e-Run0 - v11-02d-Run1

JCH2O - J-Value Diff @ 500 hPa for Apr



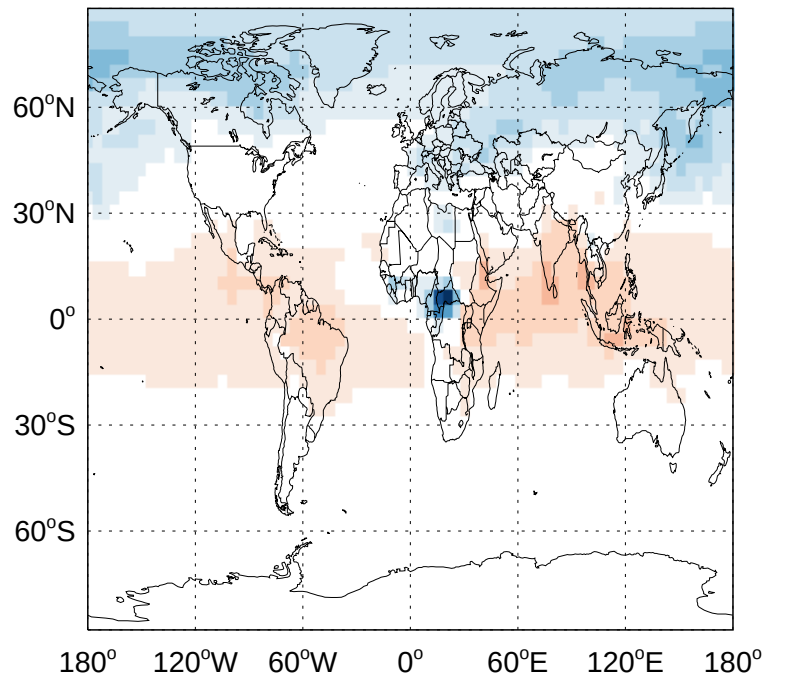
v11-02e-Run0 - v11-02c-Run0

JCH2O - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

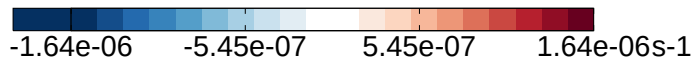
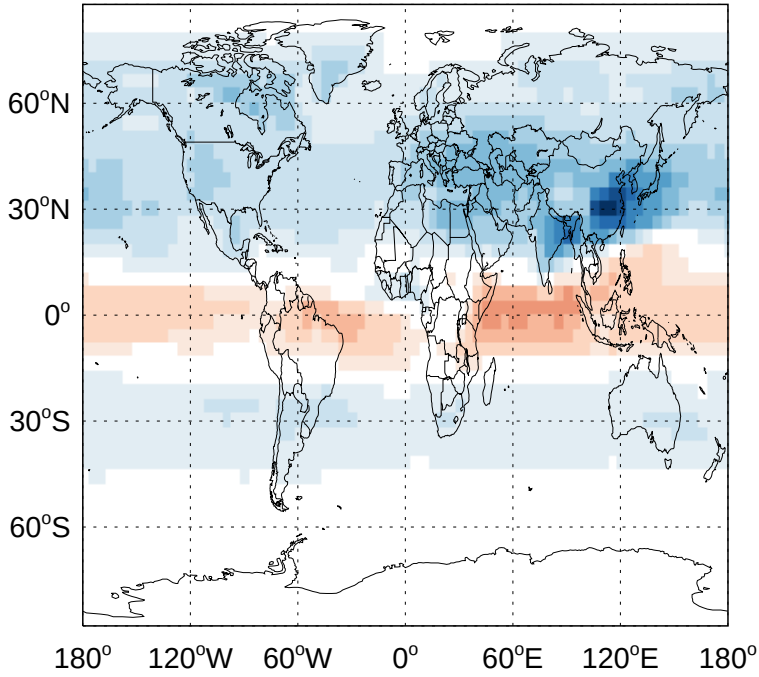
JCH2O - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

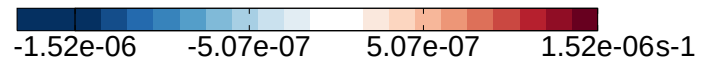
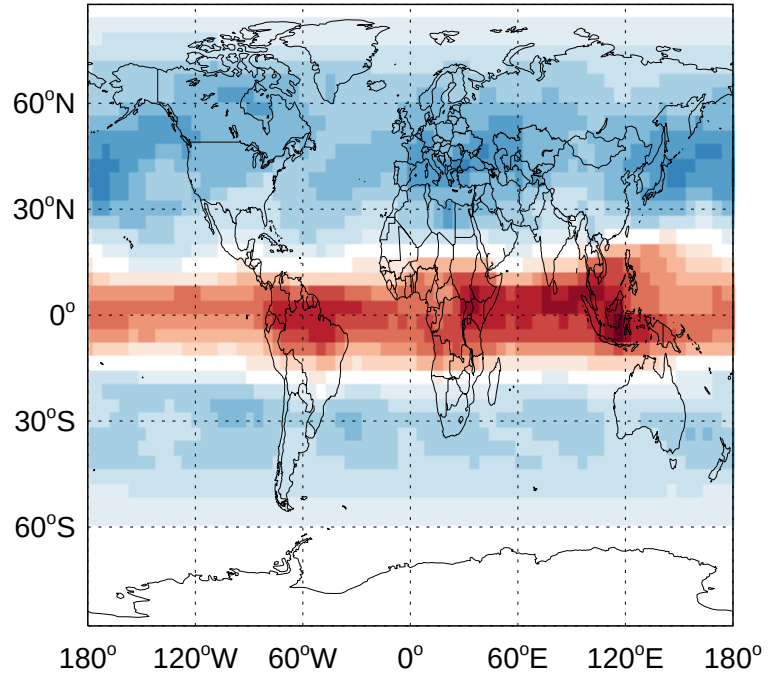
v11-02e-Run0 - v11-02d-Run1

JO3_O1D - J-Value Diff @ surface for Apr



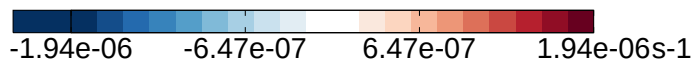
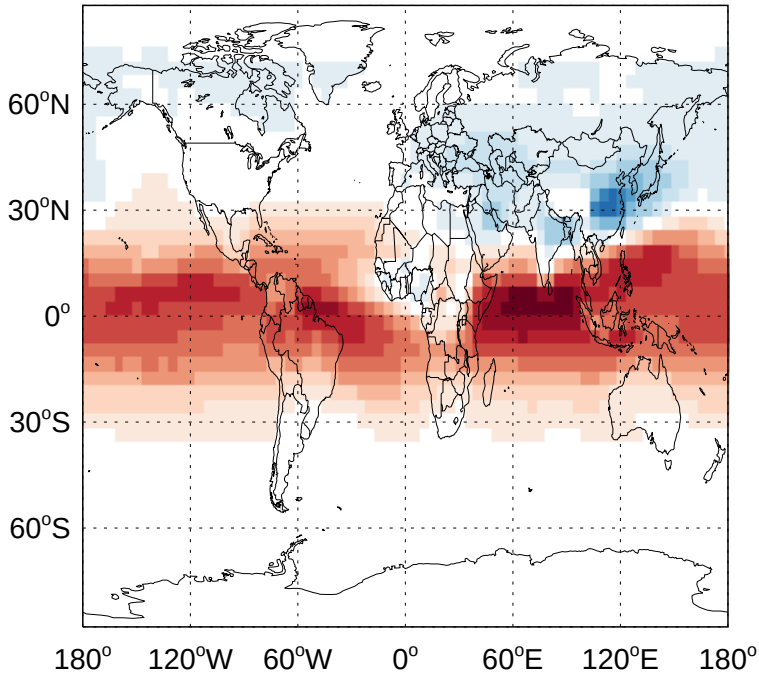
v11-02e-Run0 - v11-02d-Run1

JO3_O1D - J-Value Diff @ 500 hPa for Apr



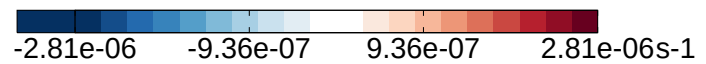
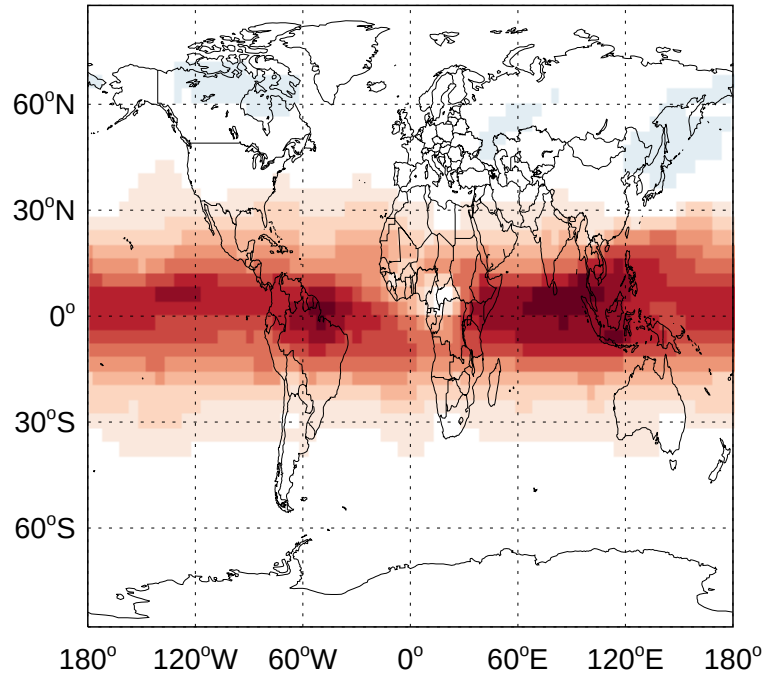
v11-02e-Run0 - v11-02c-Run0

JO3_O1D - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

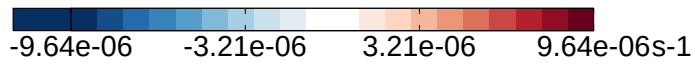
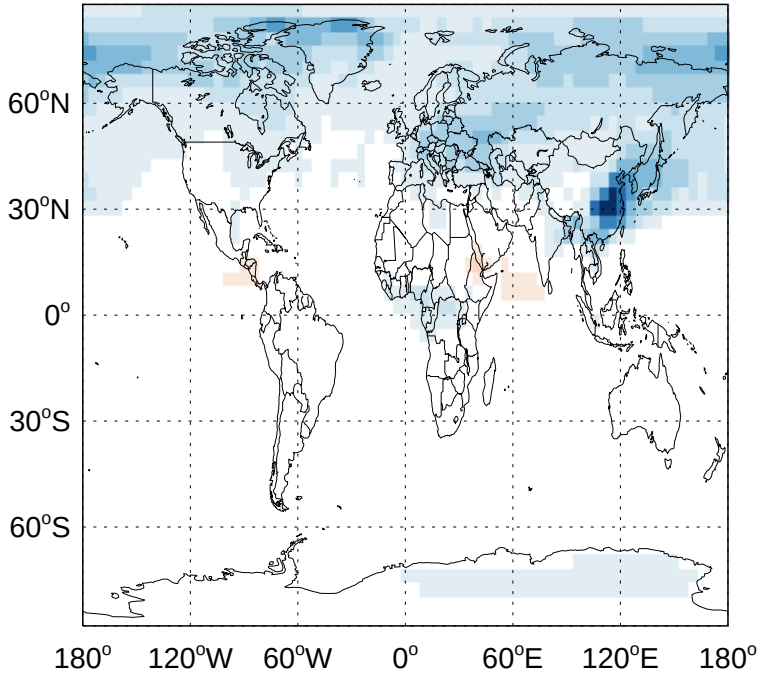
JO3_O1D - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

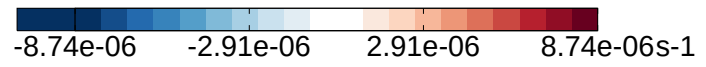
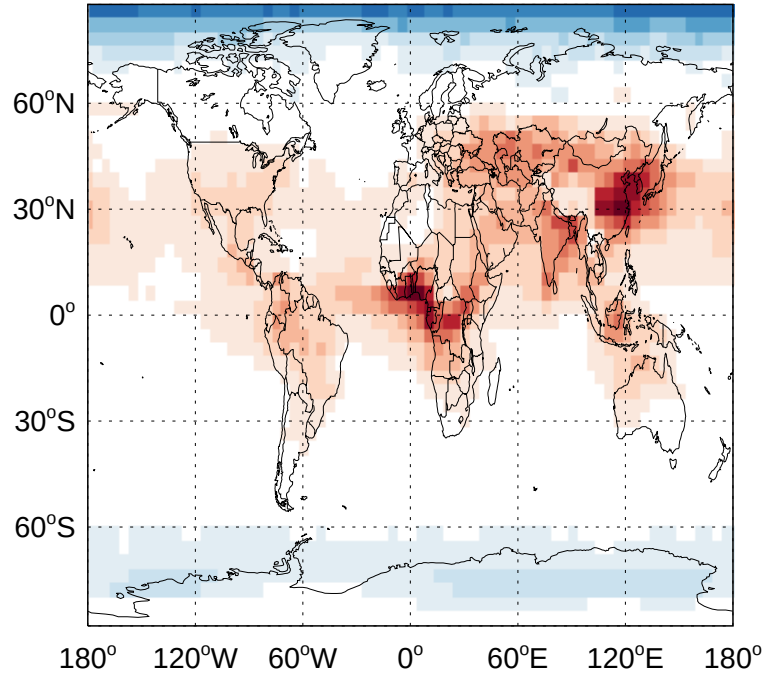
v11-02e-Run0 - v11-02d-Run1

JO3_O3P - J-Value Diff @ surface for Apr



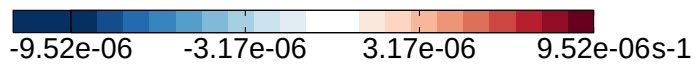
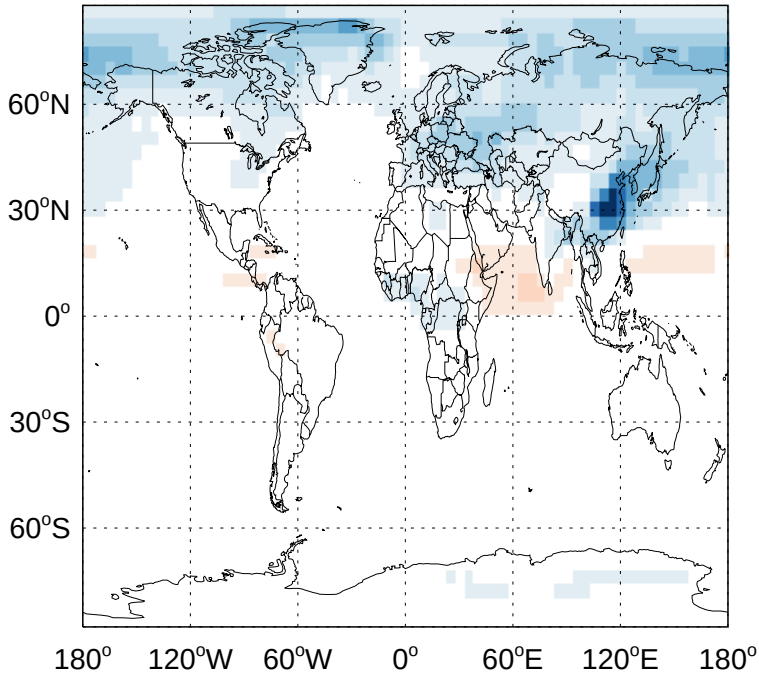
v11-02e-Run0 - v11-02d-Run1

JO3_O3P - J-Value Diff @ 500 hPa for Apr



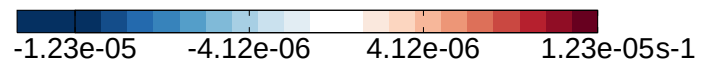
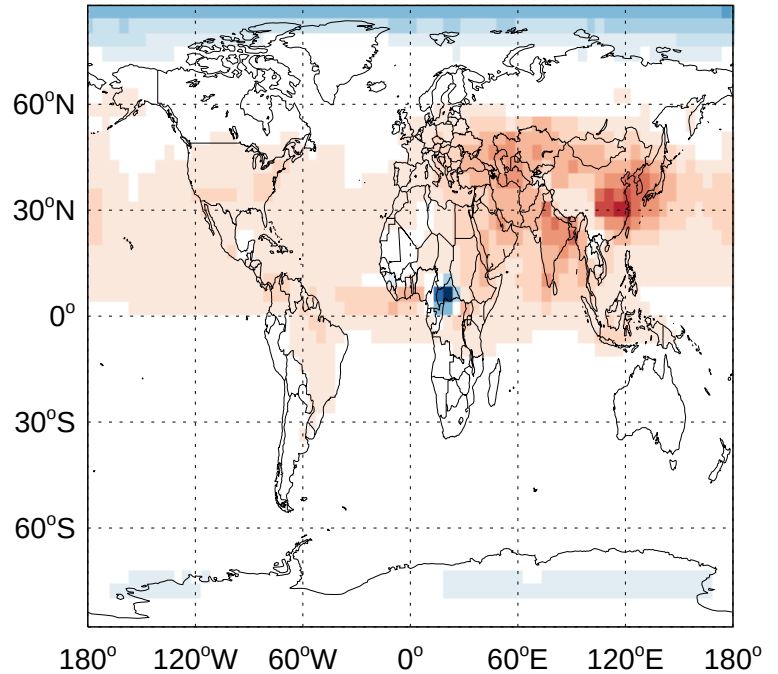
v11-02e-Run0 - v11-02c-Run0

JO3_O3P - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

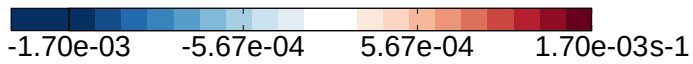
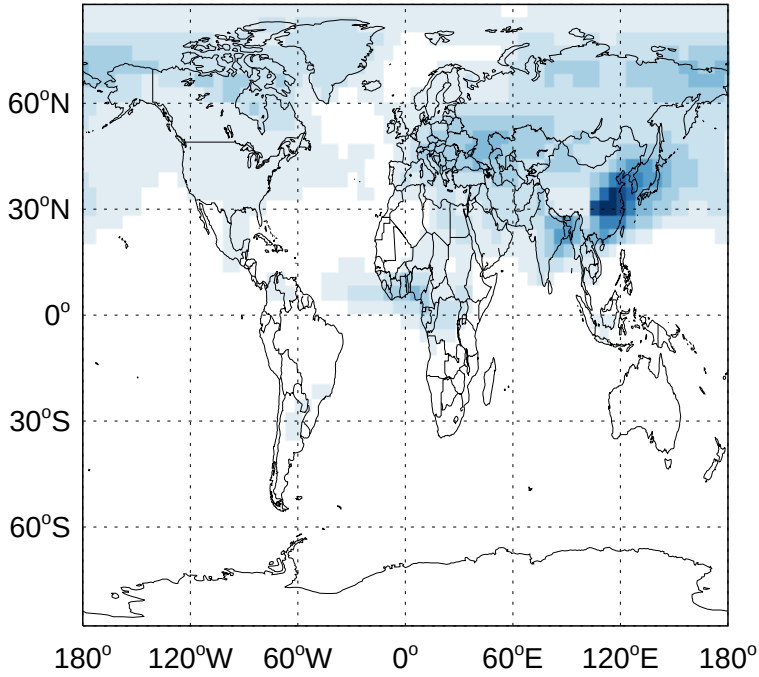
JO3_O3P - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

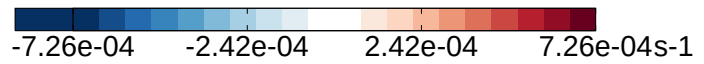
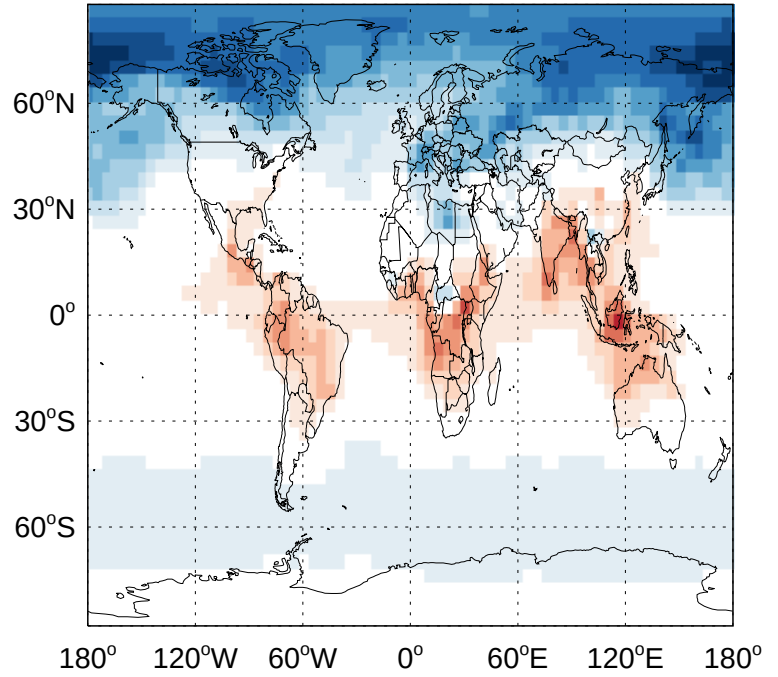
v11-02e-Run0 - v11-02d-Run1

JBrO - J-Value Diff @ surface for Apr



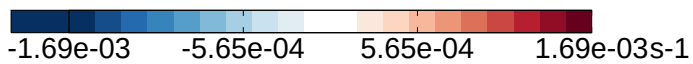
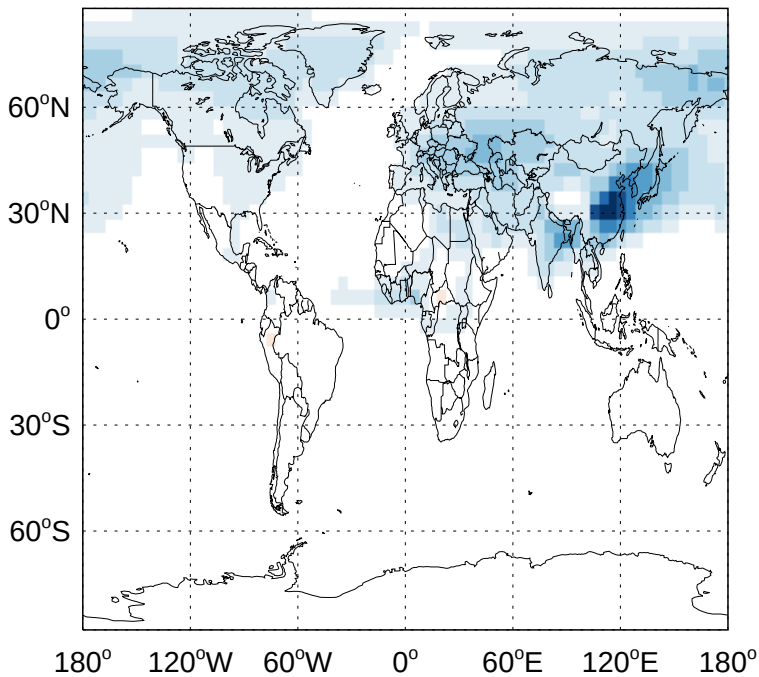
v11-02e-Run0 - v11-02d-Run1

JBrO - J-Value Diff @ 500 hPa for Apr



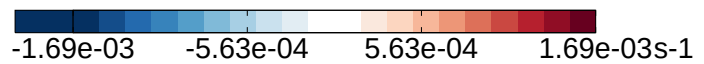
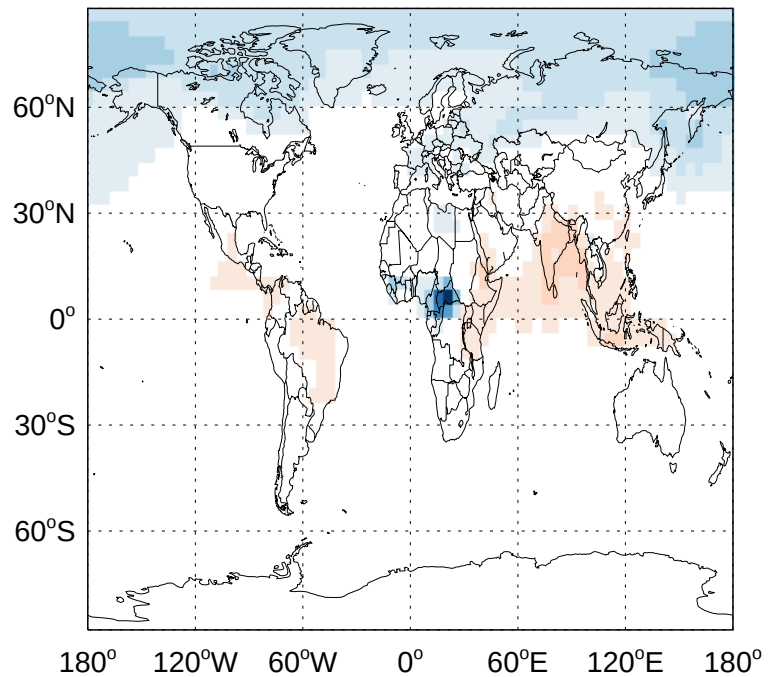
v11-02e-Run0 - v11-02c-Run0

JBrO - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

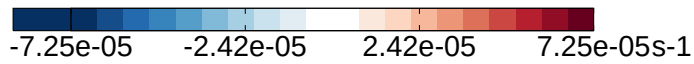
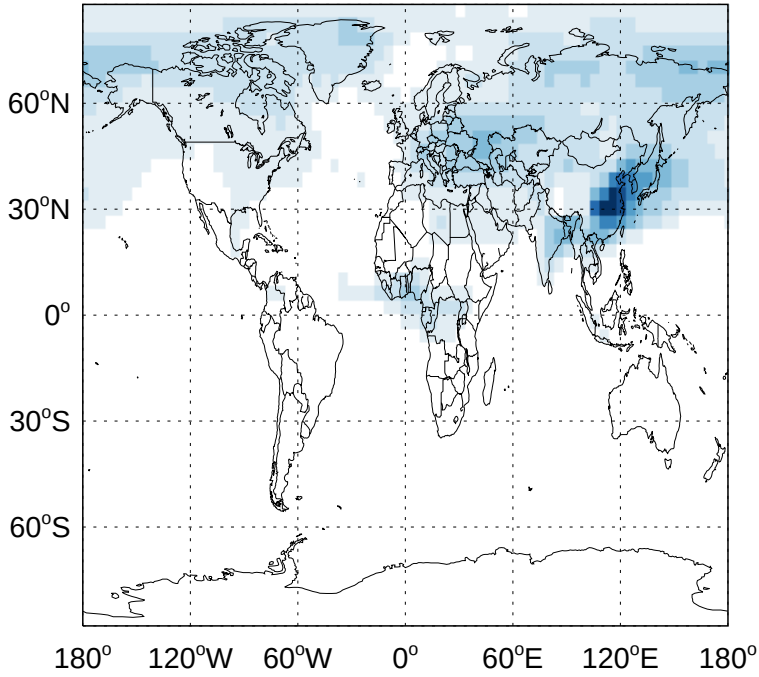
JBrO - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

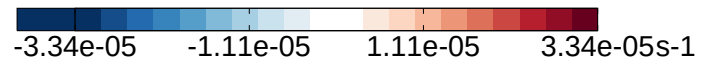
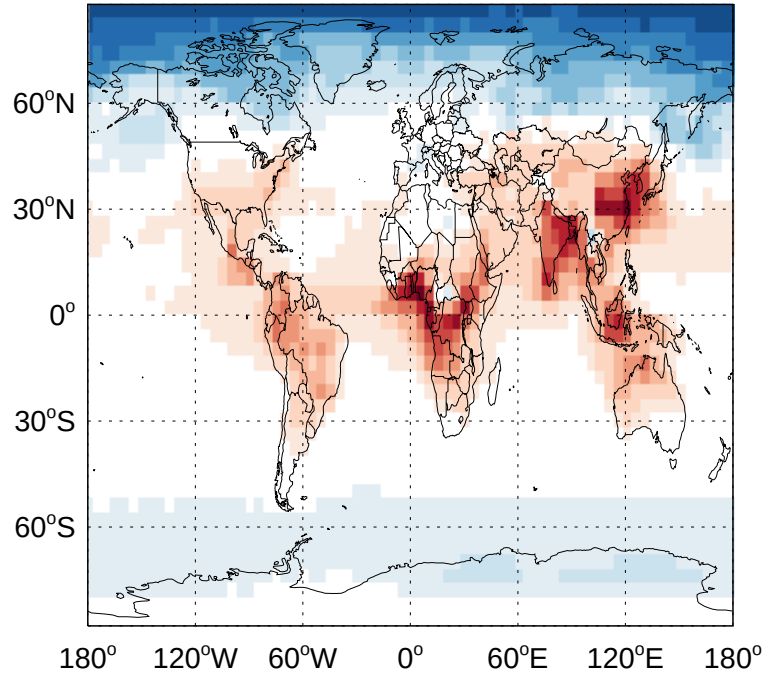
v11-02e-Run0 - v11-02d-Run1

JHOB_r - J-Value Diff @ surface for Apr



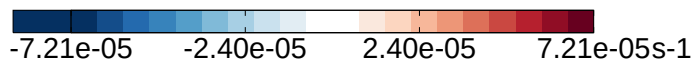
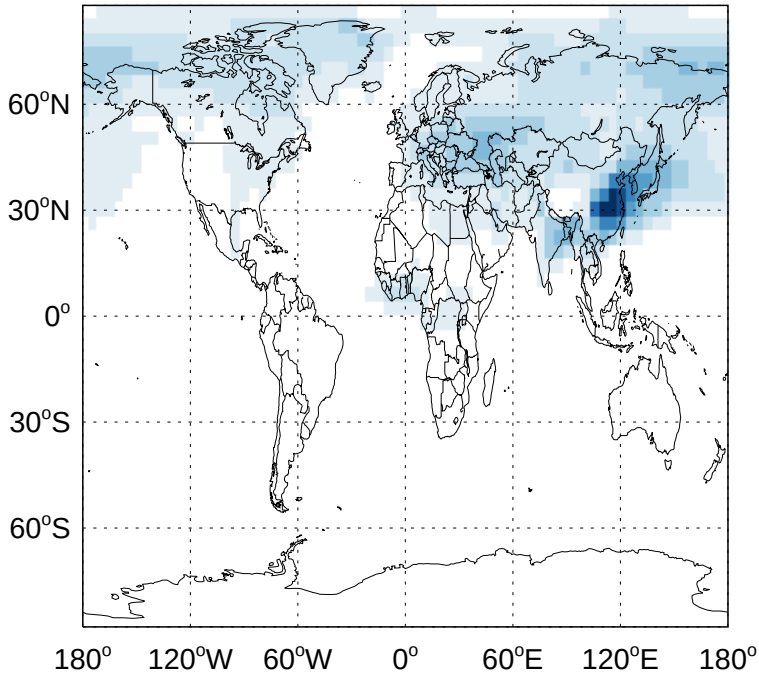
v11-02e-Run0 - v11-02d-Run1

JHOB_r - J-Value Diff @ 500 hPa for Apr



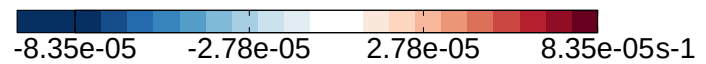
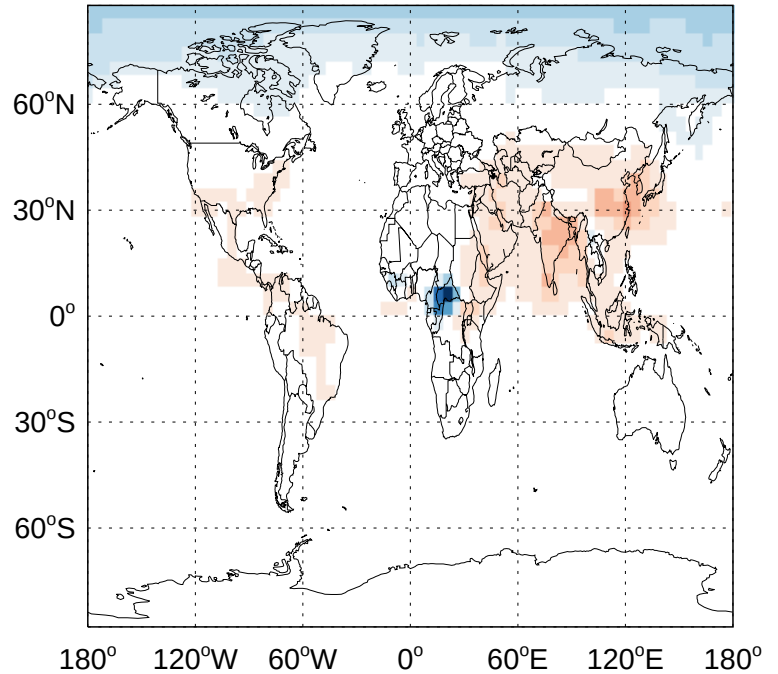
v11-02e-Run0 - v11-02c-Run0

JHOB_r - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

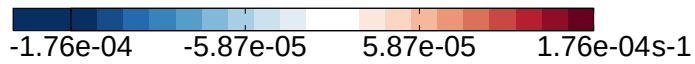
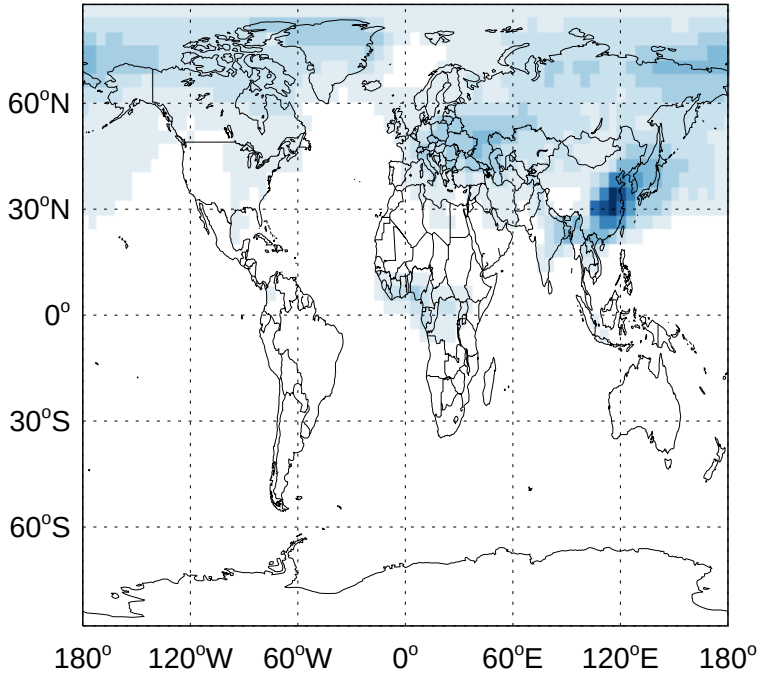
JHOB_r - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

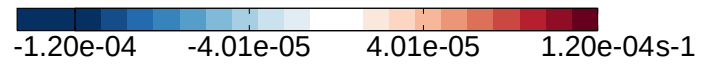
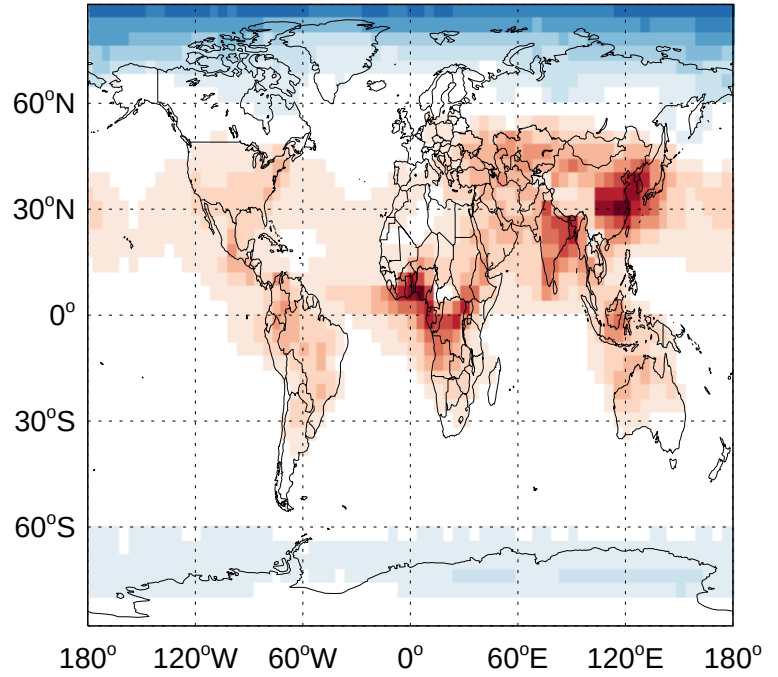
v11-02e-Run0 - v11-02d-Run1

JBrNO₂ - J-Value Diff @ surface for Apr



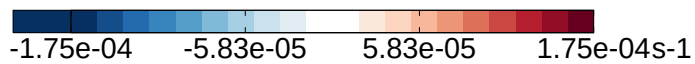
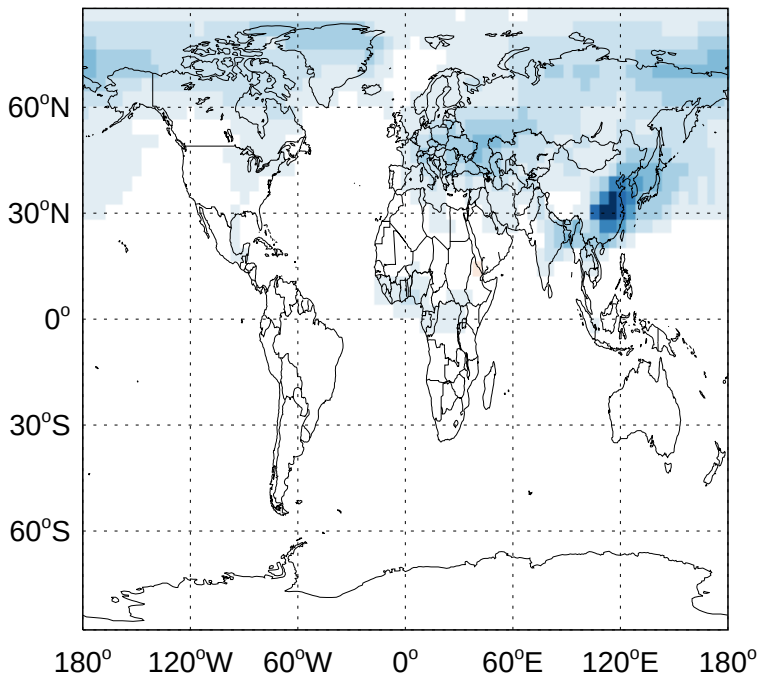
v11-02e-Run0 - v11-02d-Run1

JBrNO₂ - J-Value Diff @ 500 hPa for Apr



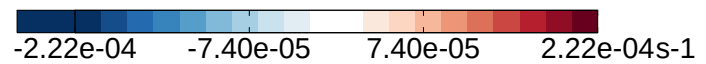
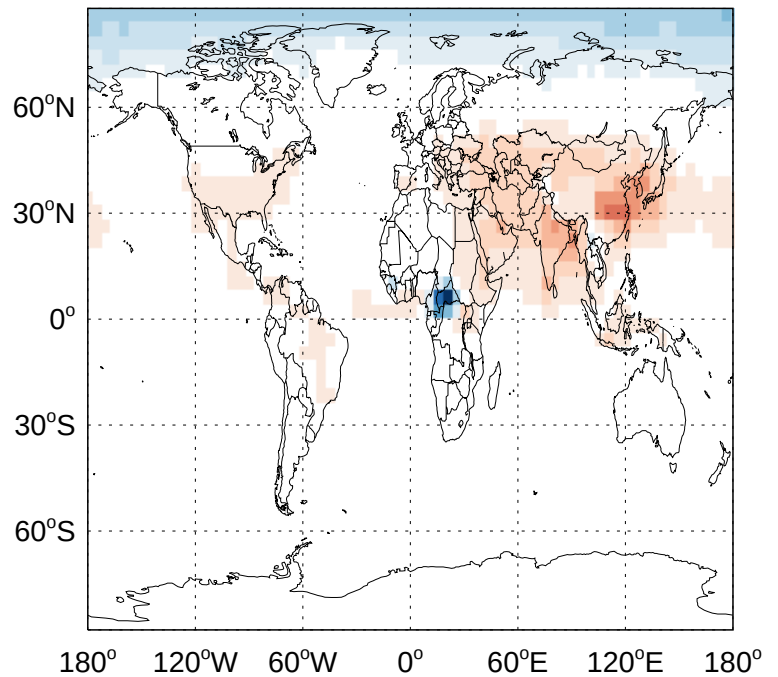
v11-02e-Run0 - v11-02c-Run0

JBrNO₂ - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

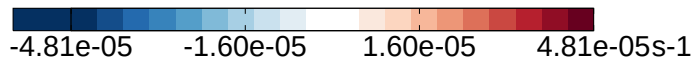
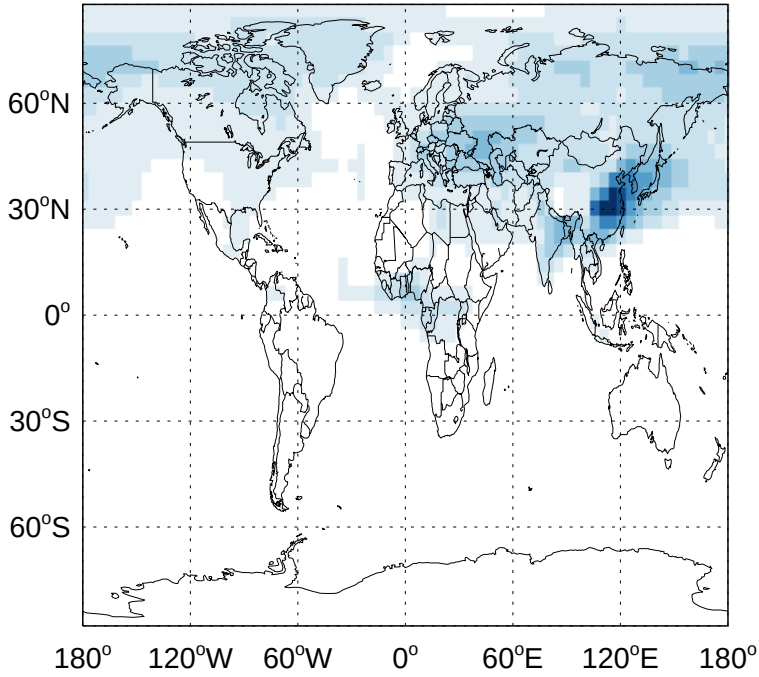
JBrNO₂ - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

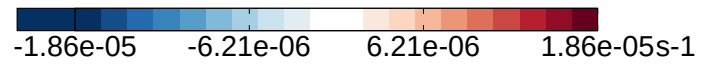
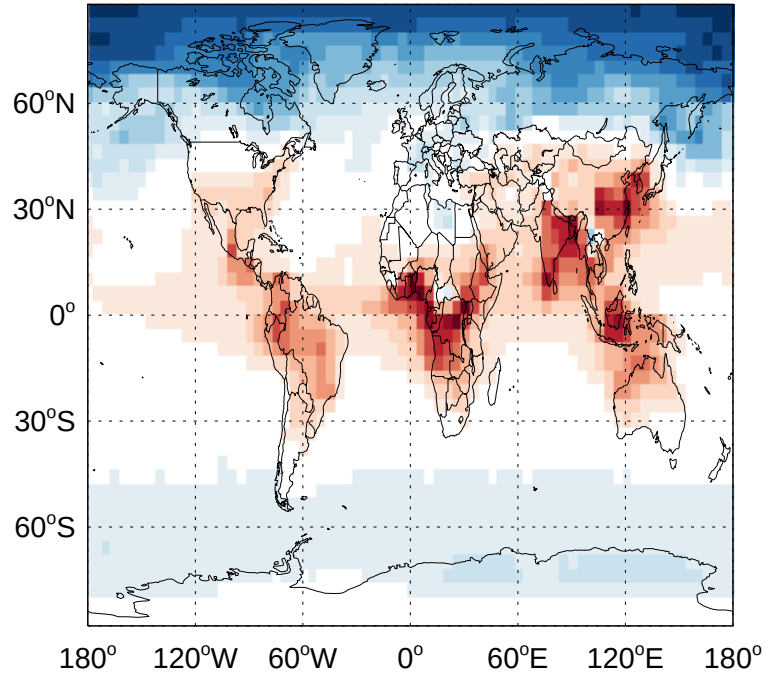
v11-02e-Run0 - v11-02d-Run1

JBrNO₃ - J-Value Diff @ surface for Apr



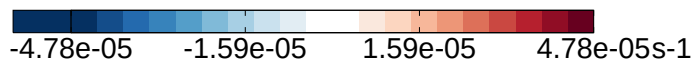
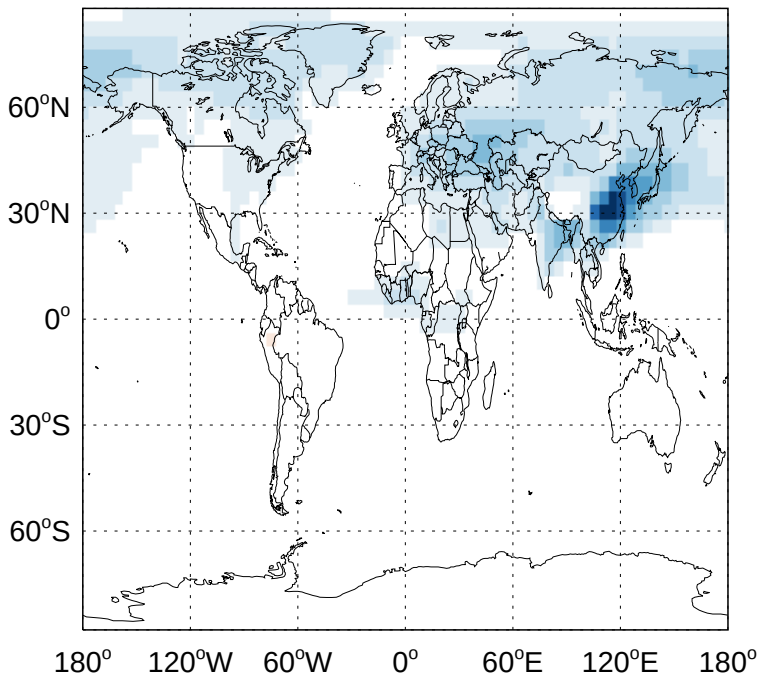
v11-02e-Run0 - v11-02d-Run1

JBrNO₃ - J-Value Diff @ 500 hPa for Apr



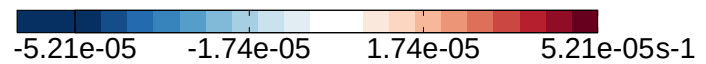
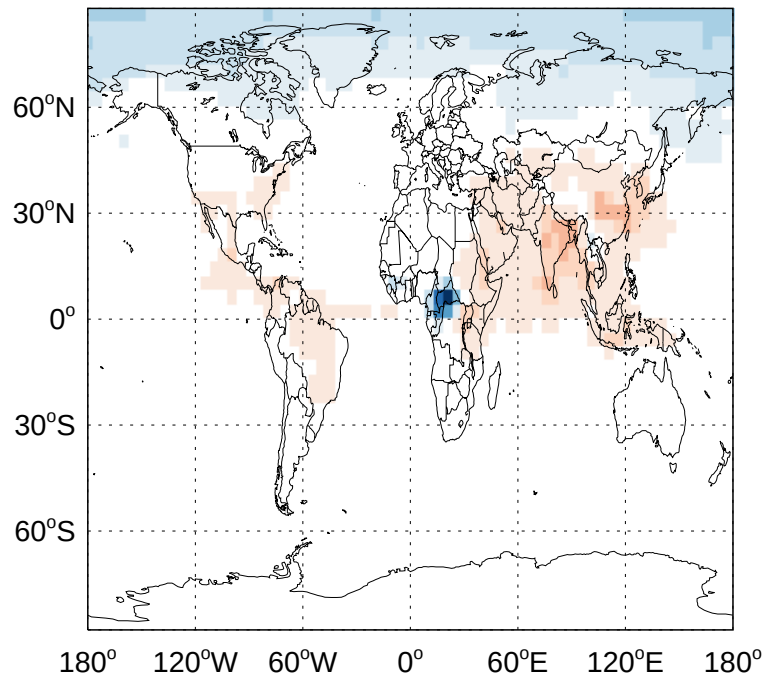
v11-02e-Run0 - v11-02c-Run0

JBrNO₃ - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

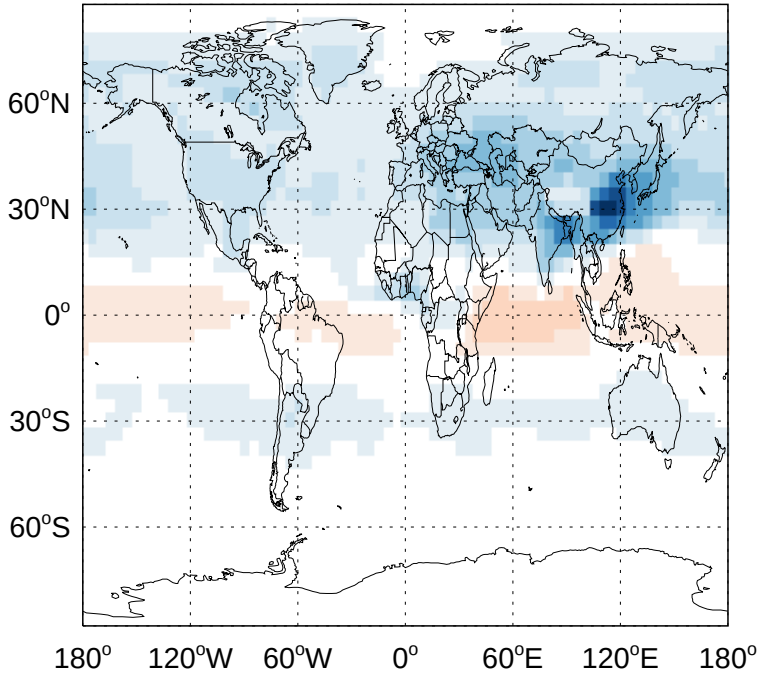
JBrNO₃ - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

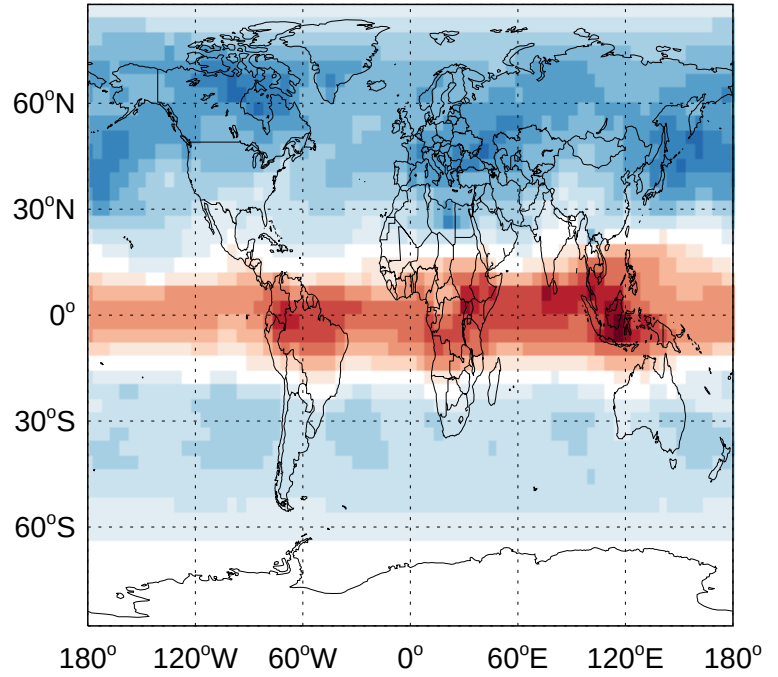
v11-02e-Run0 - v11-02d-Run1

JCHBr3 - J-Value Diff @ surface for Apr



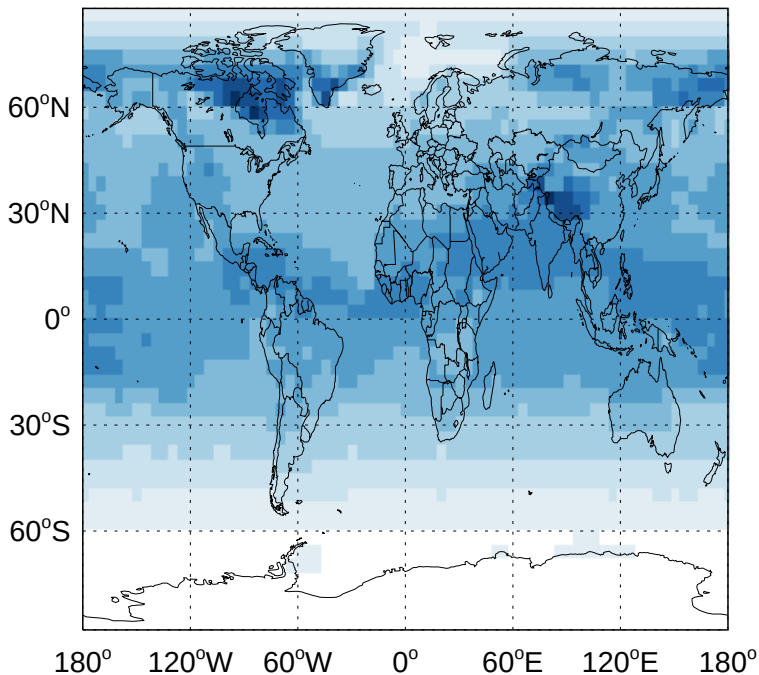
v11-02e-Run0 - v11-02d-Run1

JCHBr3 - J-Value Diff @ 500 hPa for Apr



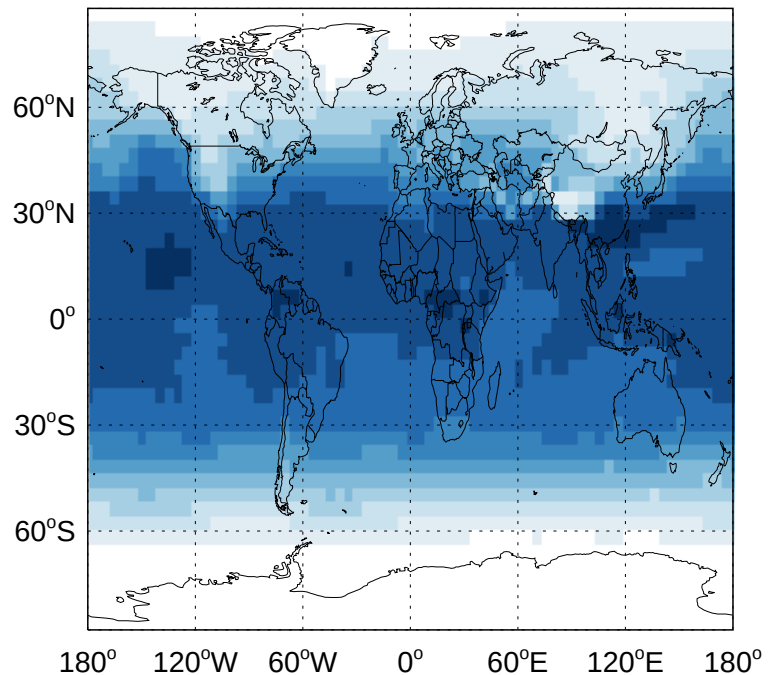
v11-02e-Run0 - v11-02c-Run0

JCHBr3 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

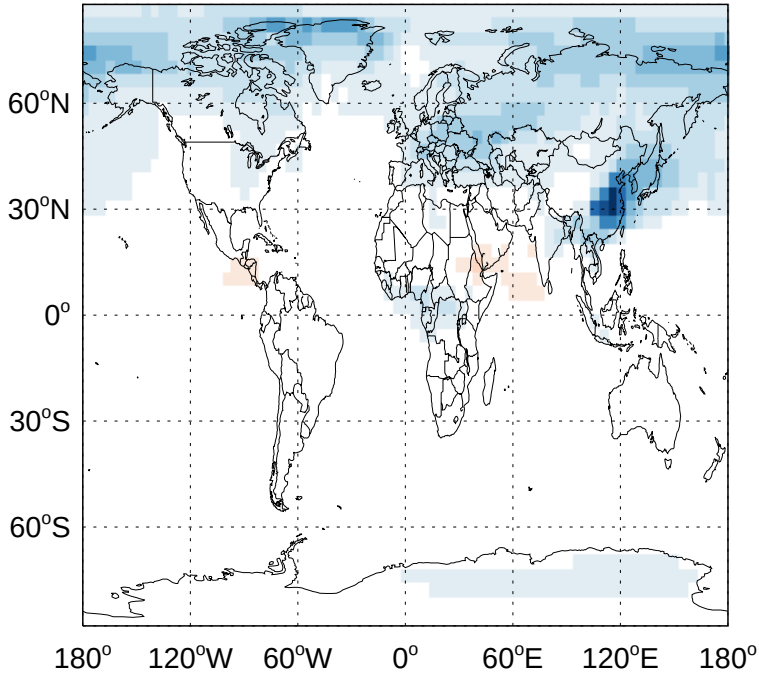
JCHBr3 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

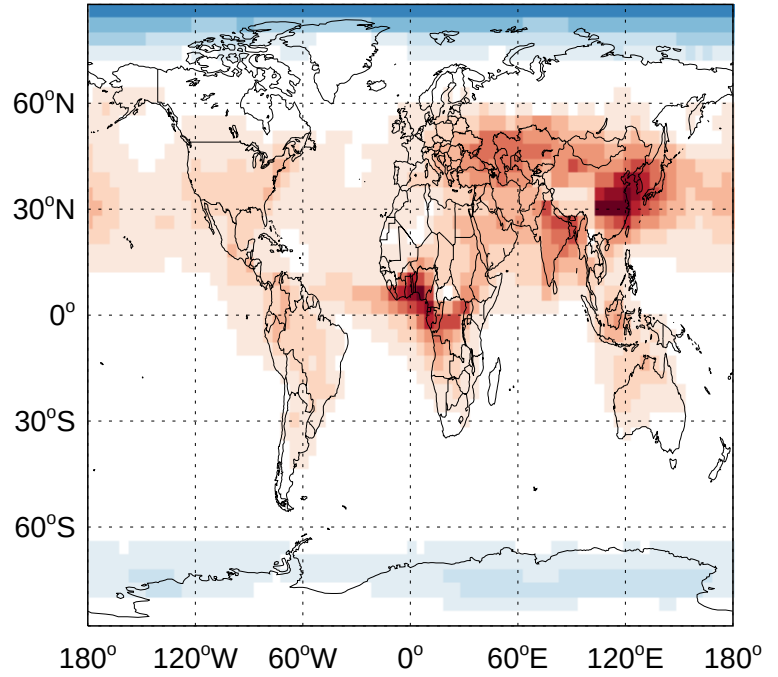
v11-02e-Run0 - v11-02d-Run1

JBr2 - J-Value Diff @ surface for Apr



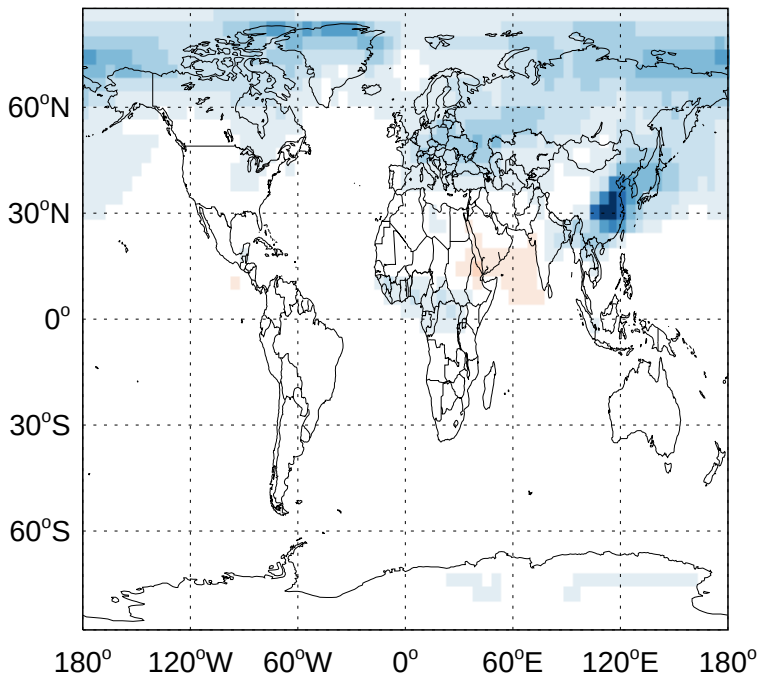
v11-02e-Run0 - v11-02d-Run1

JBr2 - J-Value Diff @ 500 hPa for Apr



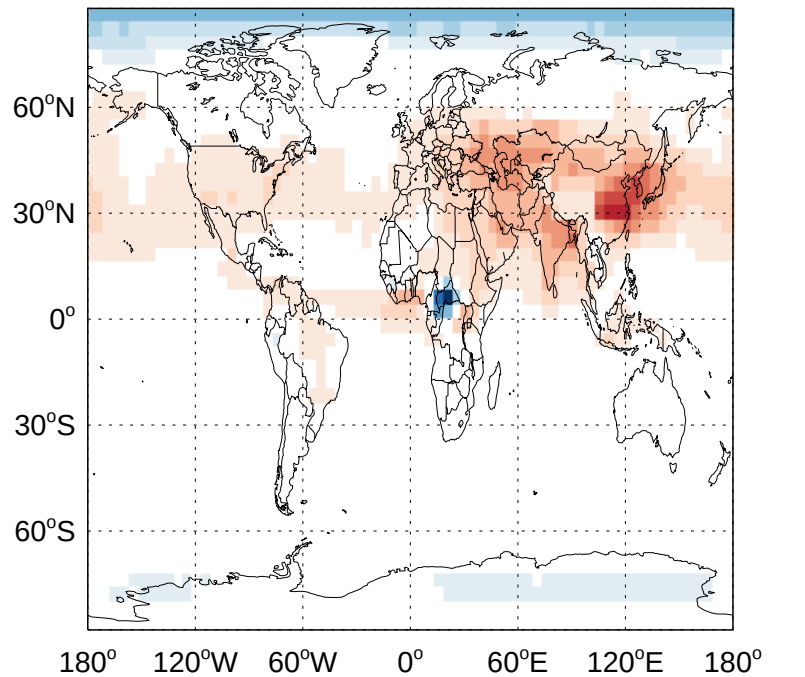
v11-02e-Run0 - v11-02c-Run0

JBr2 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

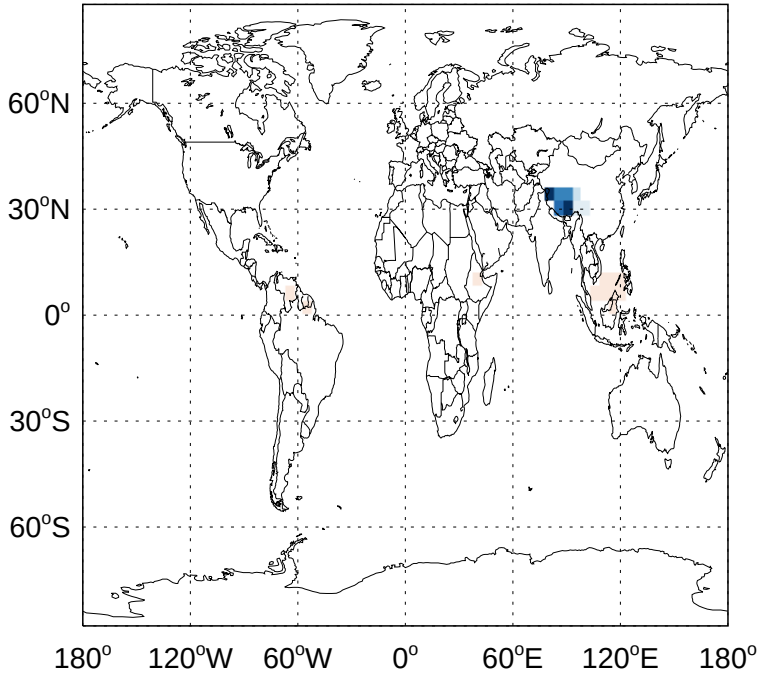
JBr2 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

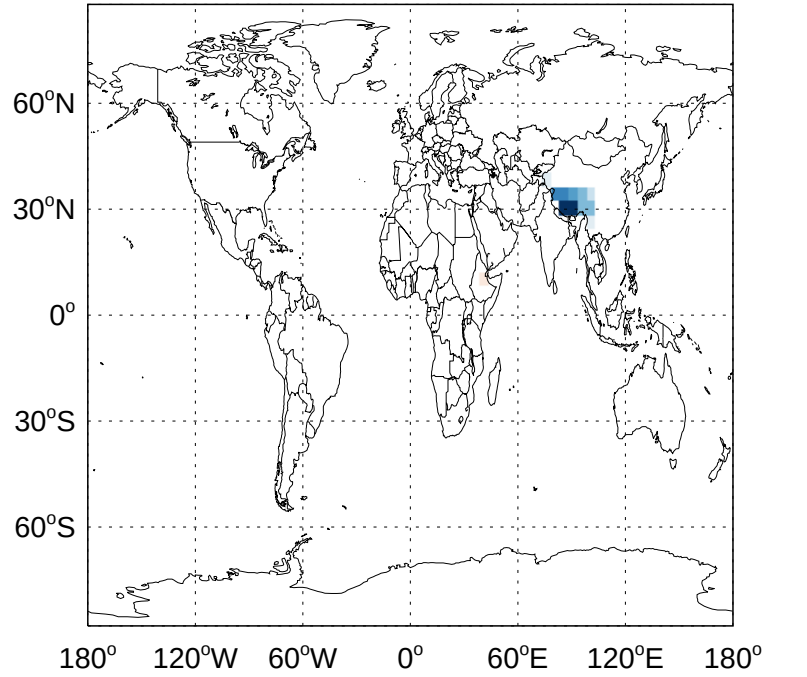
v11-02e-Run0 - v11-02d-Run1

JO2 - J-Value Diff @ surface for Apr



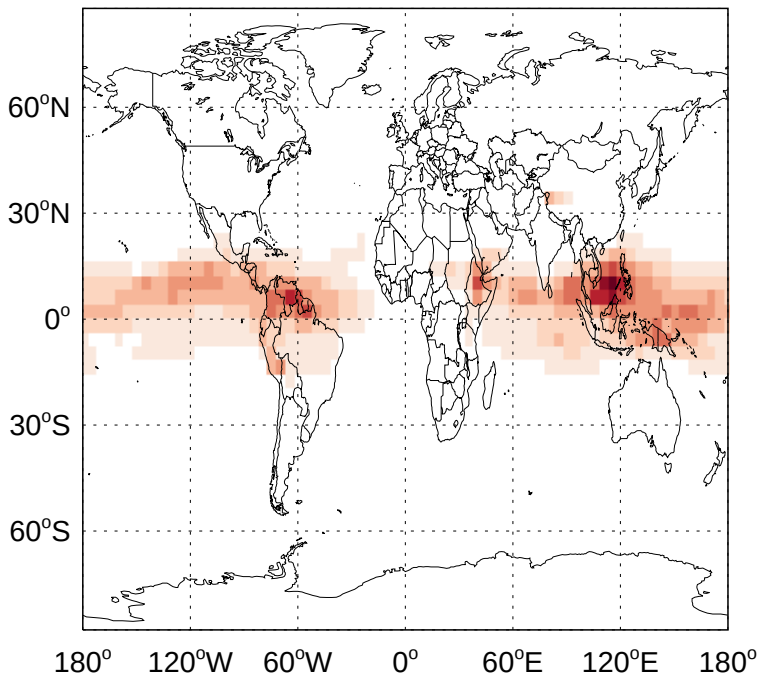
v11-02e-Run0 - v11-02d-Run1

JO2 - J-Value Diff @ 500 hPa for Apr



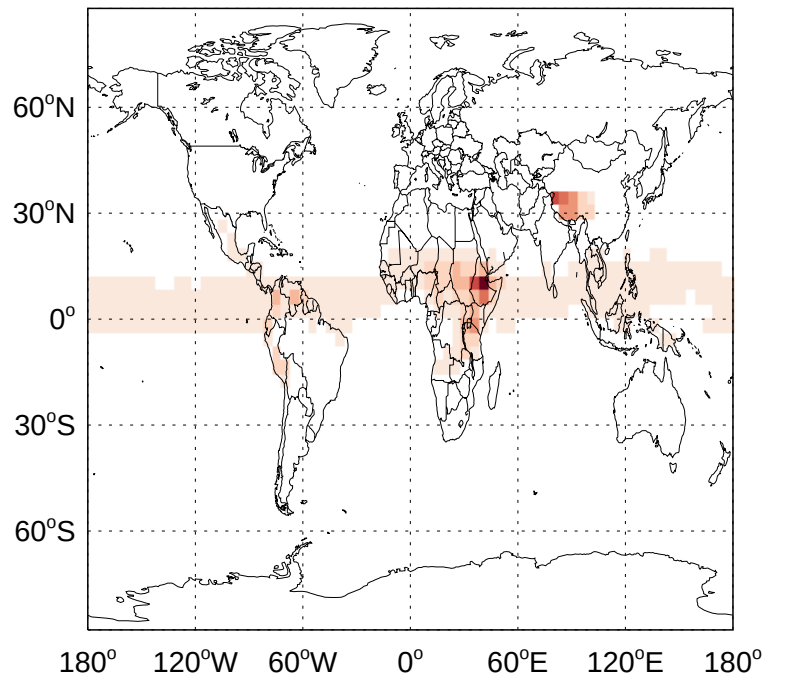
v11-02e-Run0 - v11-02c-Run0

JO2 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

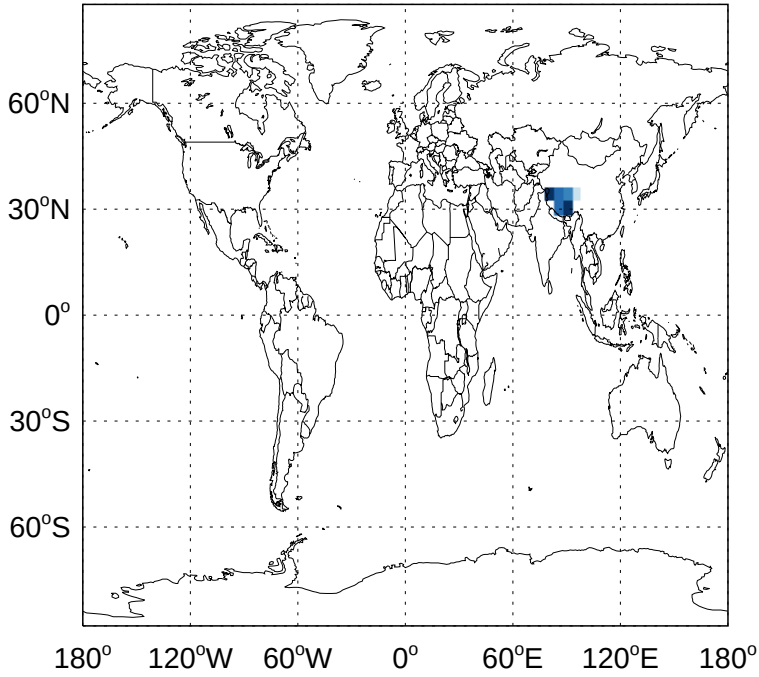
JO2 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

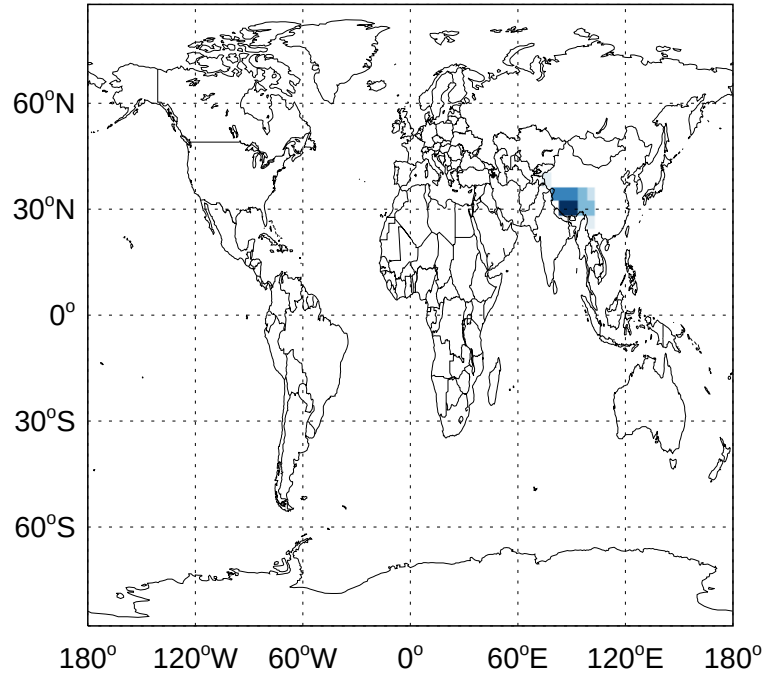
v11-02e-Run0 - v11-02d-Run1

JN2O - J-Value Diff @ surface for Apr



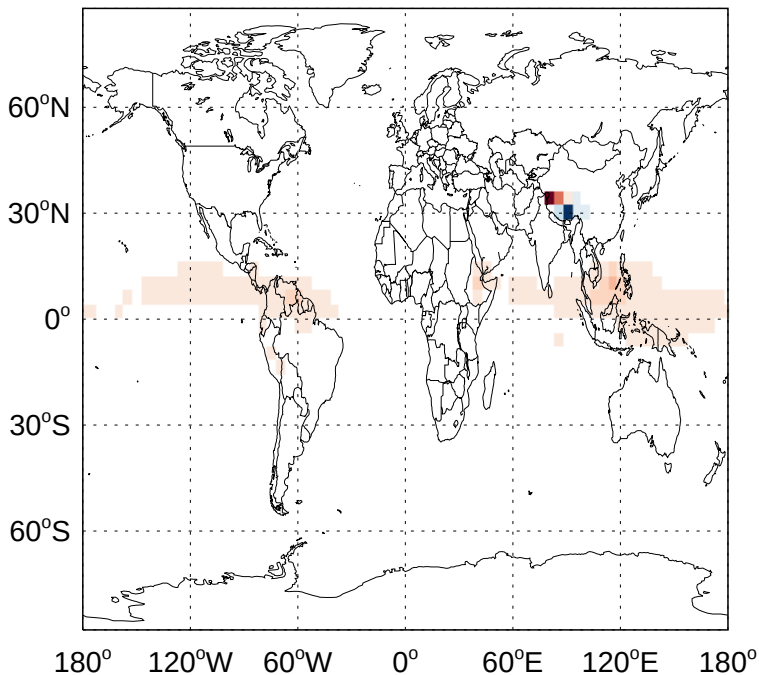
v11-02e-Run0 - v11-02d-Run1

JN2O - J-Value Diff @ 500 hPa for Apr



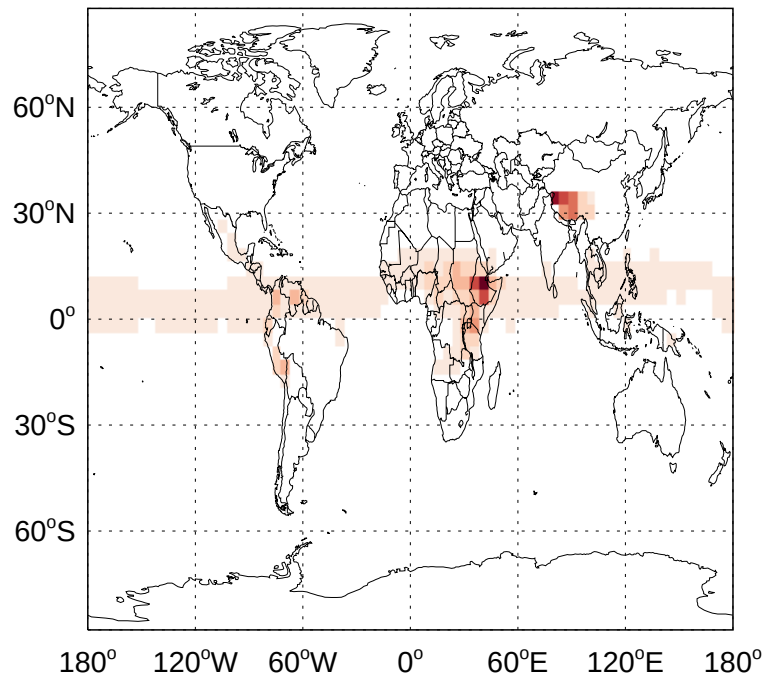
v11-02e-Run0 - v11-02c-Run0

JN2O - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

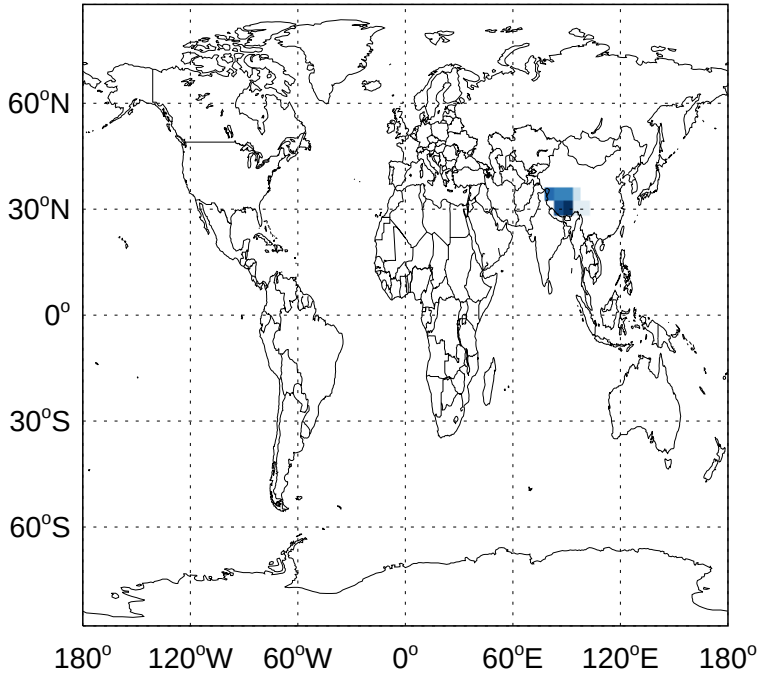
JN2O - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

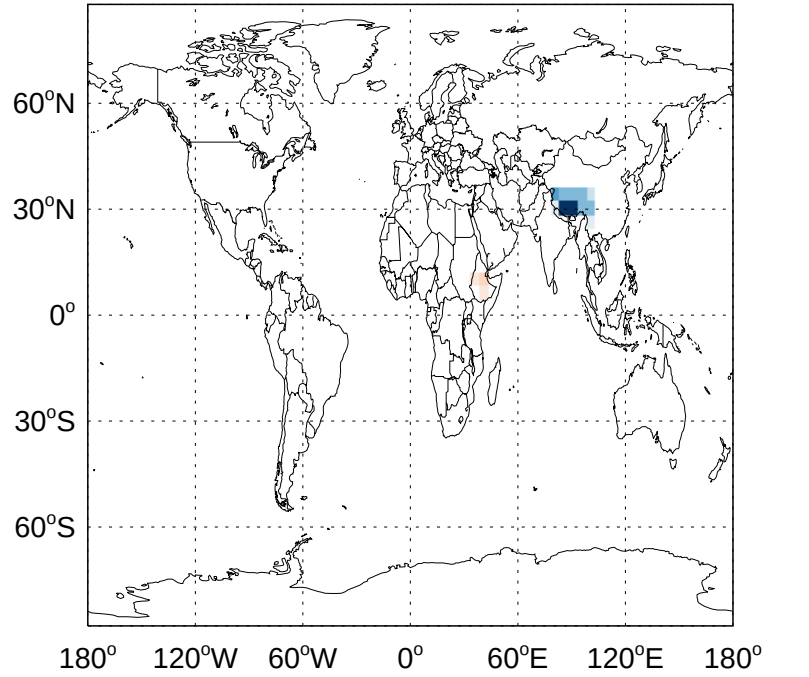
v11-02e-Run0 - v11-02d-Run1

JNO - J-Value Diff @ surface for Apr



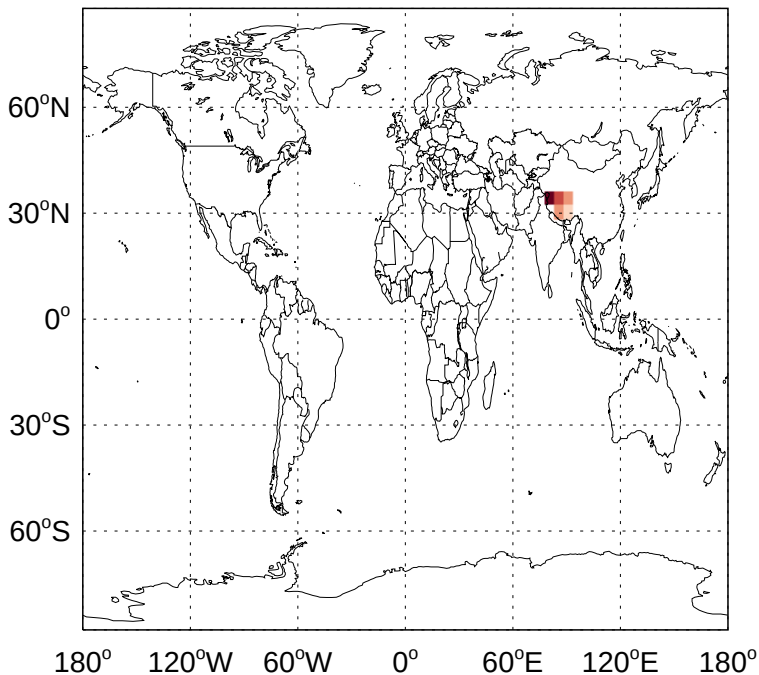
v11-02e-Run0 - v11-02d-Run1

JNO - J-Value Diff @ 500 hPa for Apr



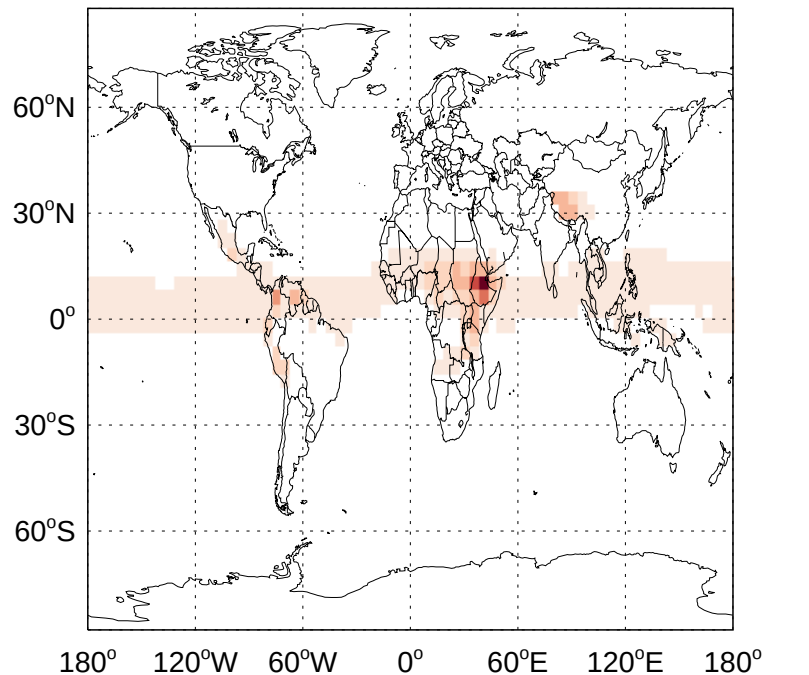
v11-02e-Run0 - v11-02c-Run0

JNO - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

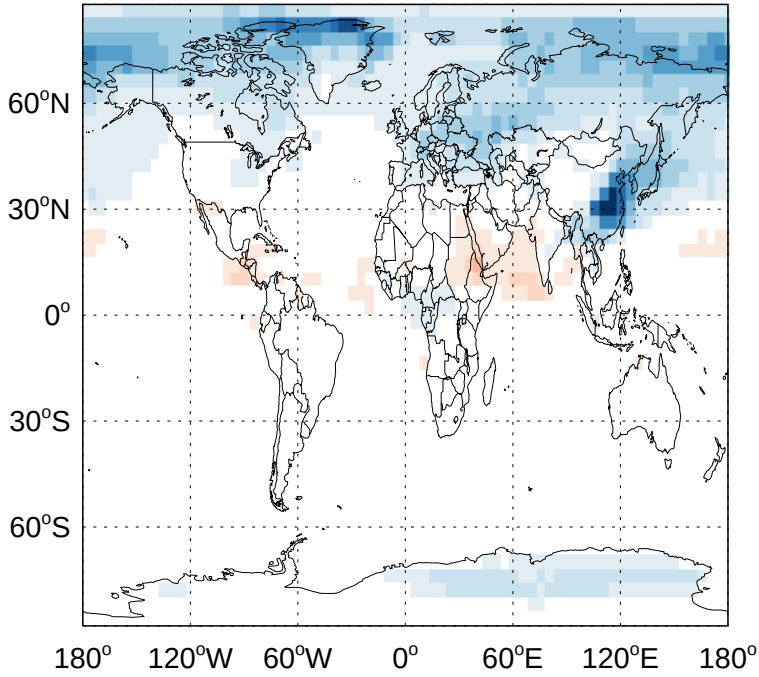
JNO - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

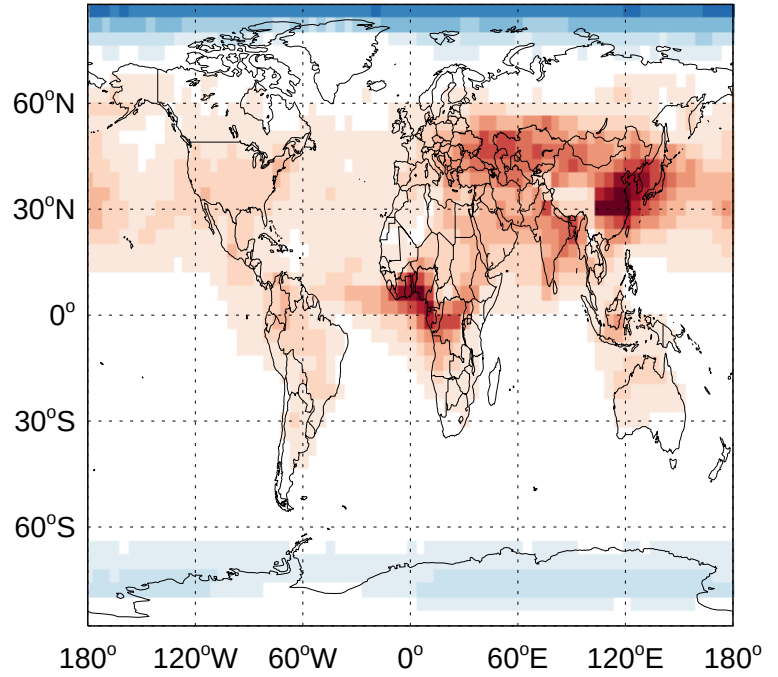
v11-02e-Run0 - v11-02d-Run1

JNO3 - J-Value Diff @ surface for Apr



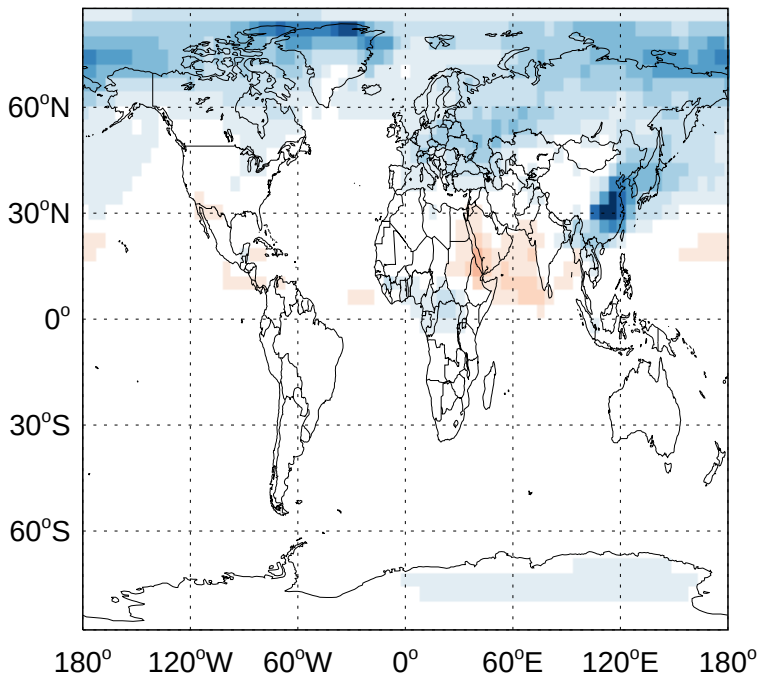
v11-02e-Run0 - v11-02d-Run1

JNO3 - J-Value Diff @ 500 hPa for Apr



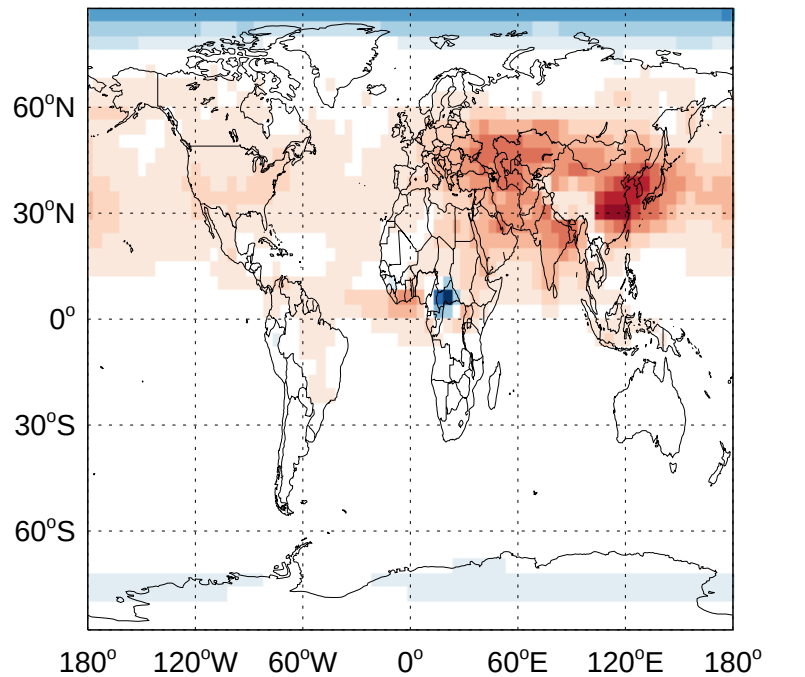
v11-02e-Run0 - v11-02c-Run0

JNO3 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

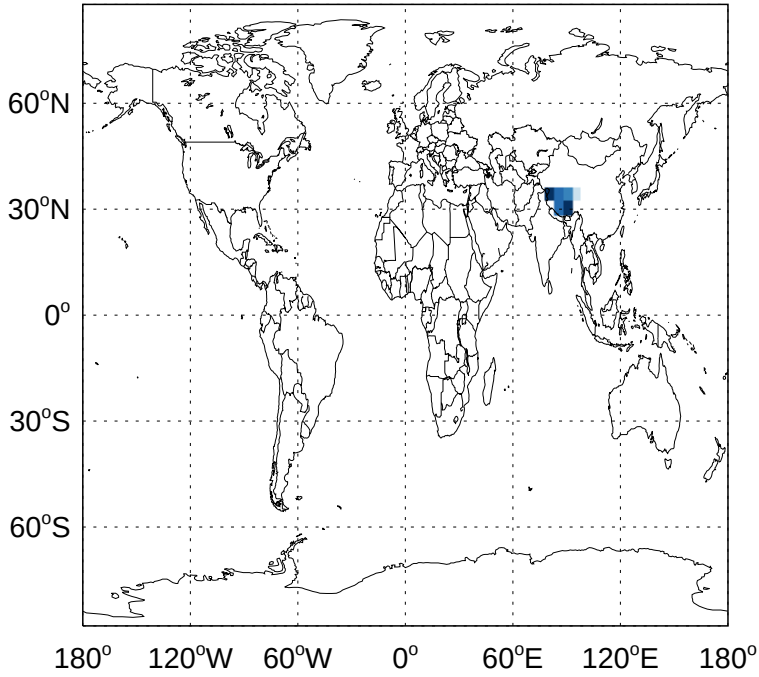
JNO3 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

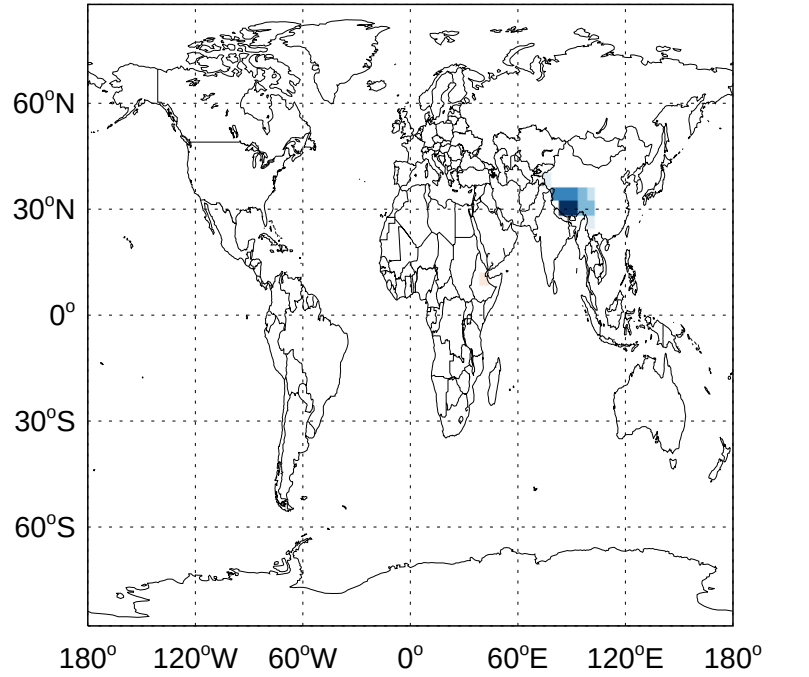
v11-02e-Run0 - v11-02d-Run1

JCFC11 - J-Value Diff @ surface for Apr



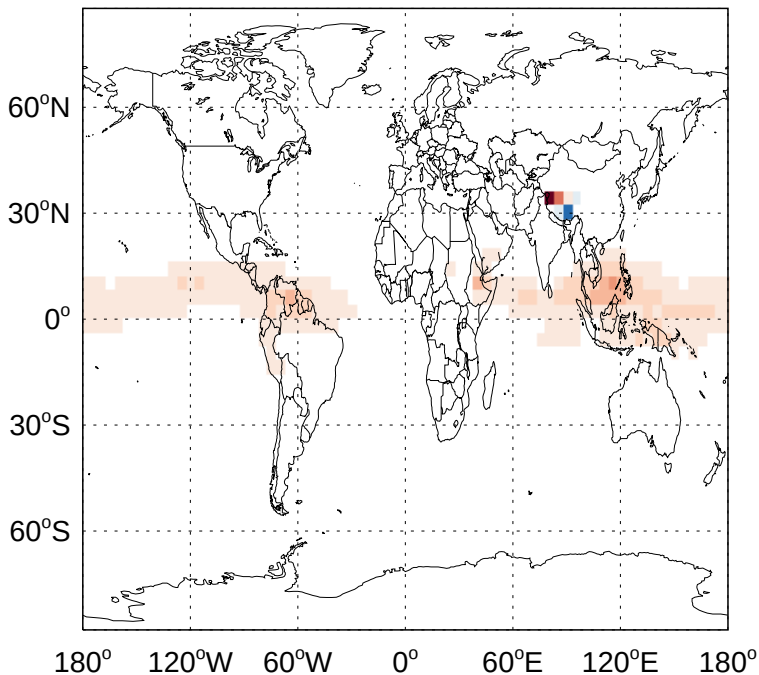
v11-02e-Run0 - v11-02d-Run1

JCFC11 - J-Value Diff @ 500 hPa for Apr



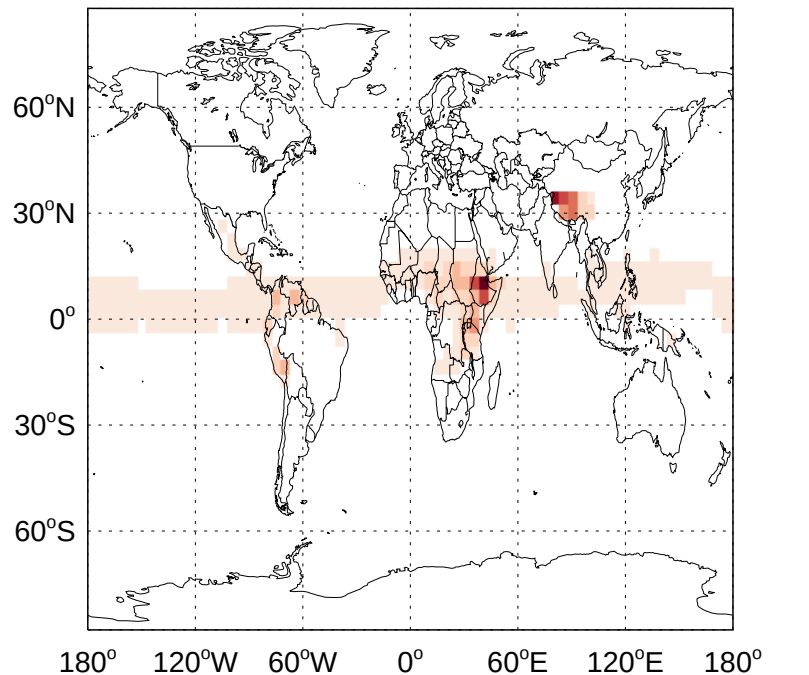
v11-02e-Run0 - v11-02c-Run0

JCFC11 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

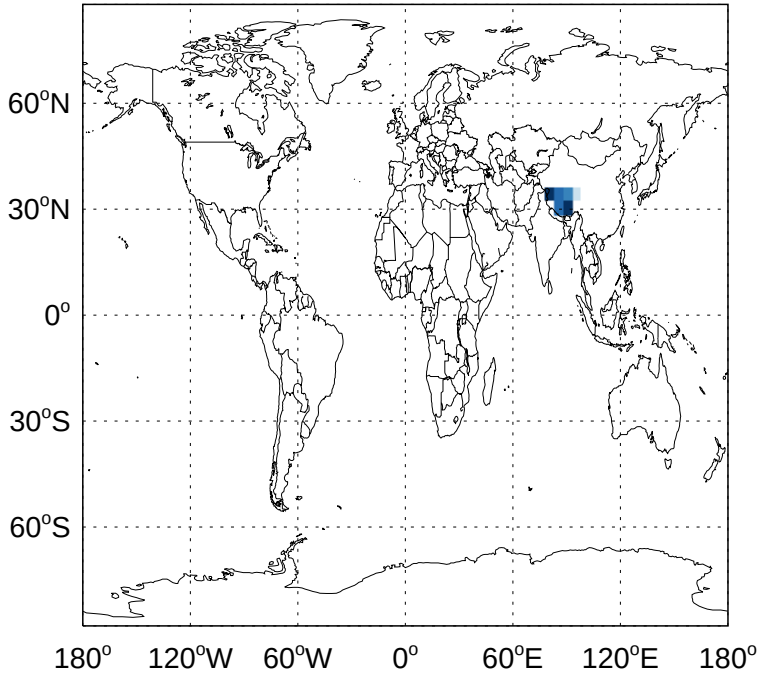
JCFC11 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

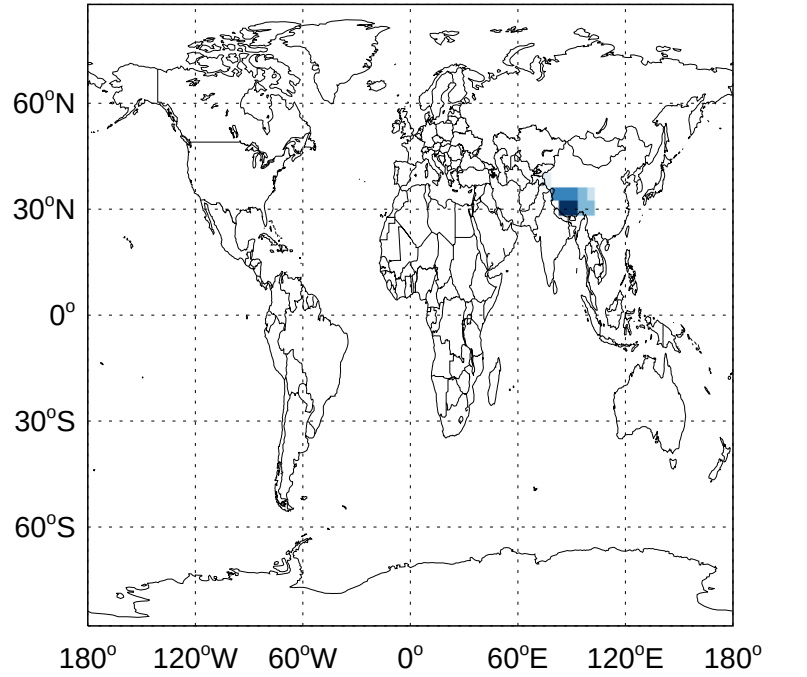
v11-02e-Run0 - v11-02d-Run1

JCFC12 - J-Value Diff @ surface for Apr



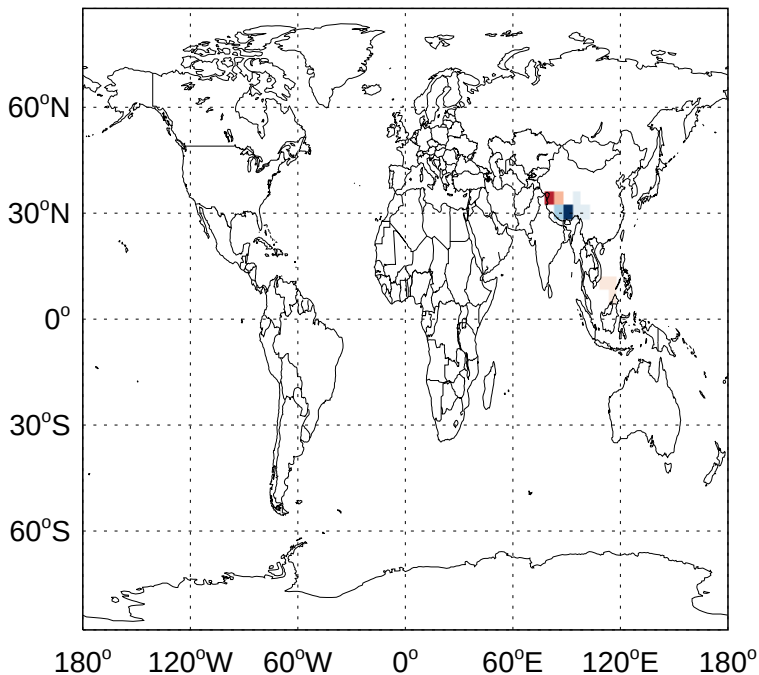
v11-02e-Run0 - v11-02d-Run1

JCFC12 - J-Value Diff @ 500 hPa for Apr



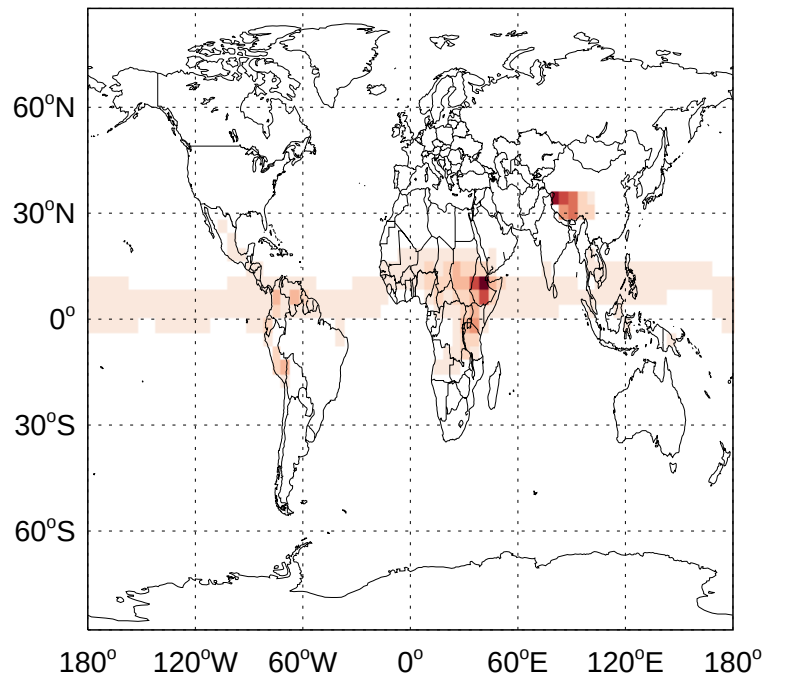
v11-02e-Run0 - v11-02c-Run0

JCFC12 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

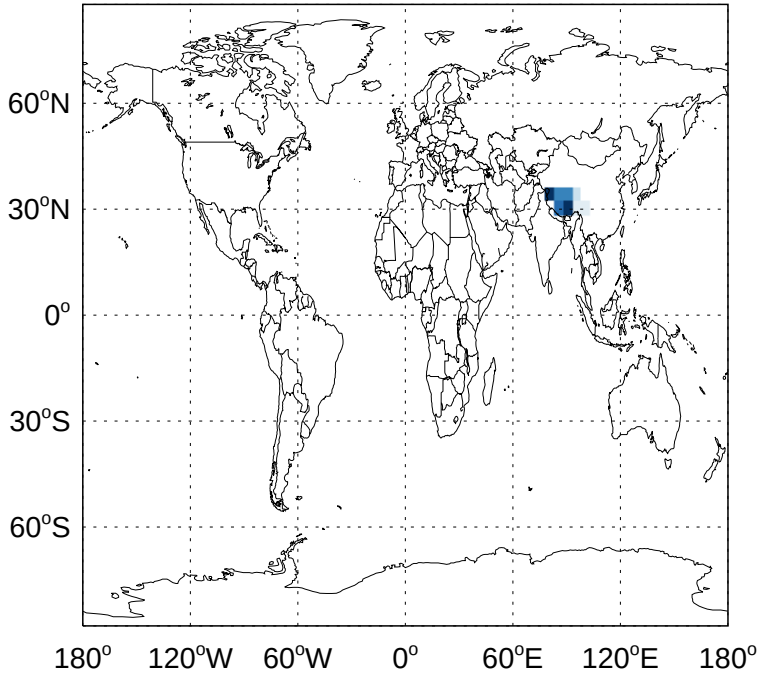
JCFC12 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

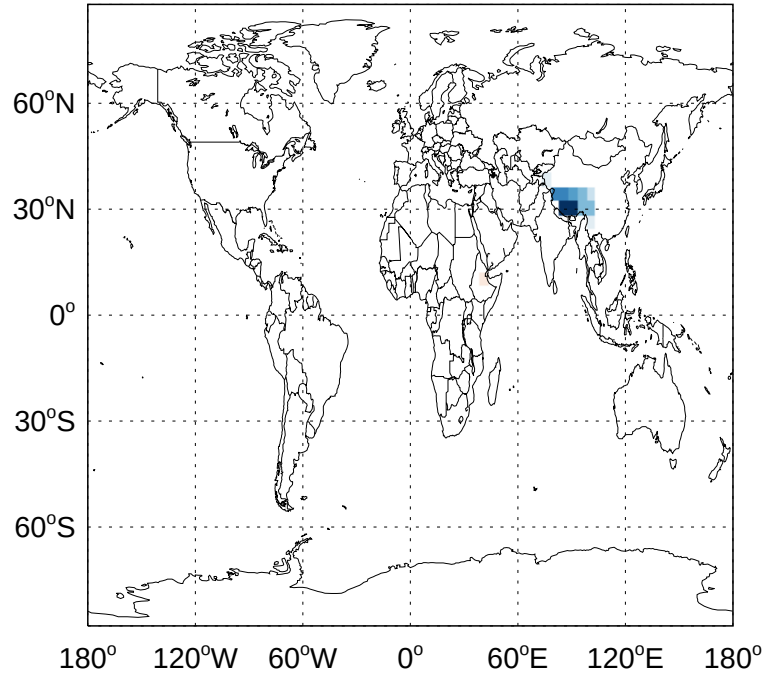
v11-02e-Run0 - v11-02d-Run1

JCCI4 - J-Value Diff @ surface for Apr



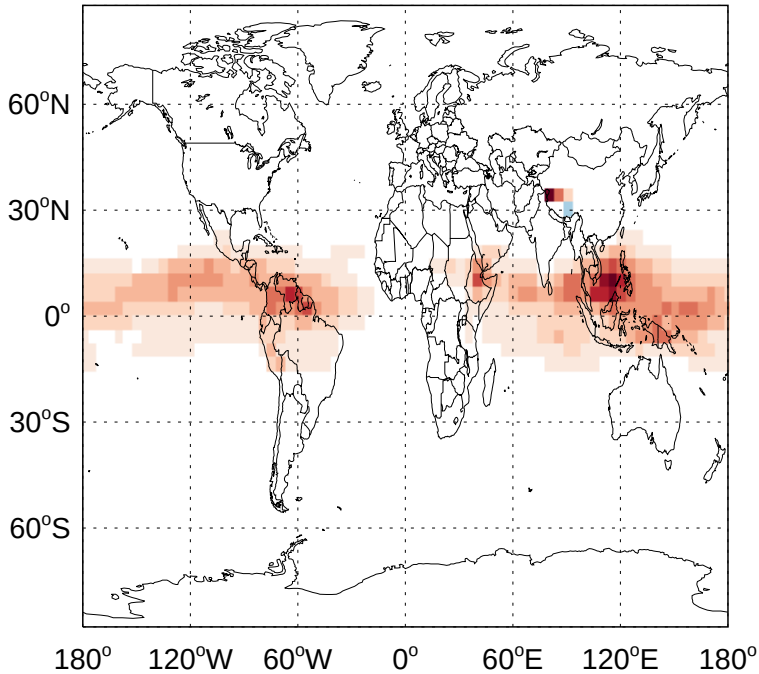
v11-02e-Run0 - v11-02d-Run1

JCCI4 - J-Value Diff @ 500 hPa for Apr



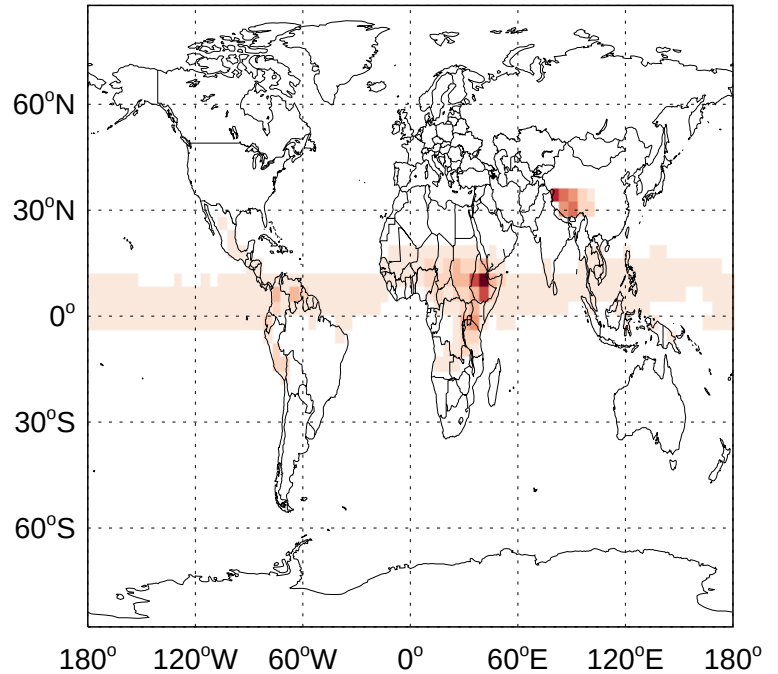
v11-02e-Run0 - v11-02c-Run0

JCCI4 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

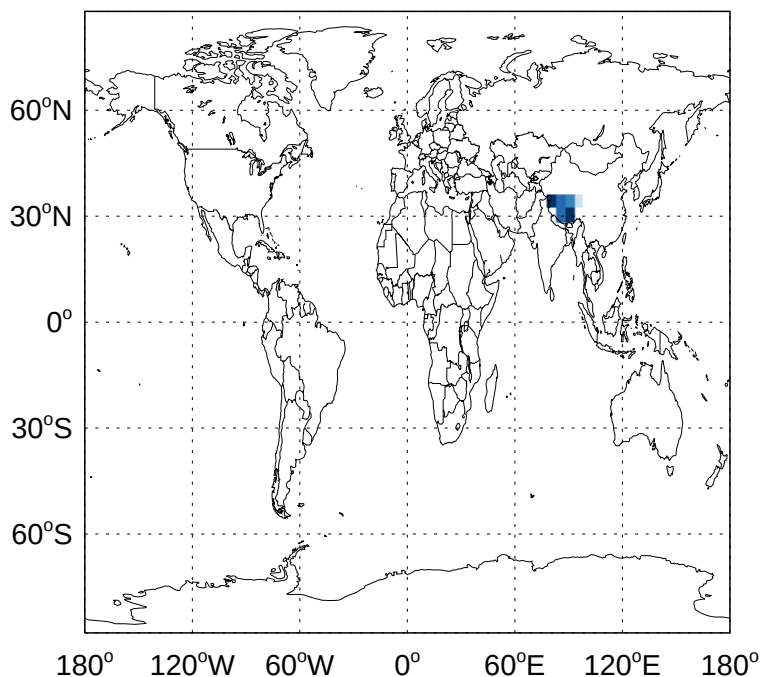
JCCI4 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

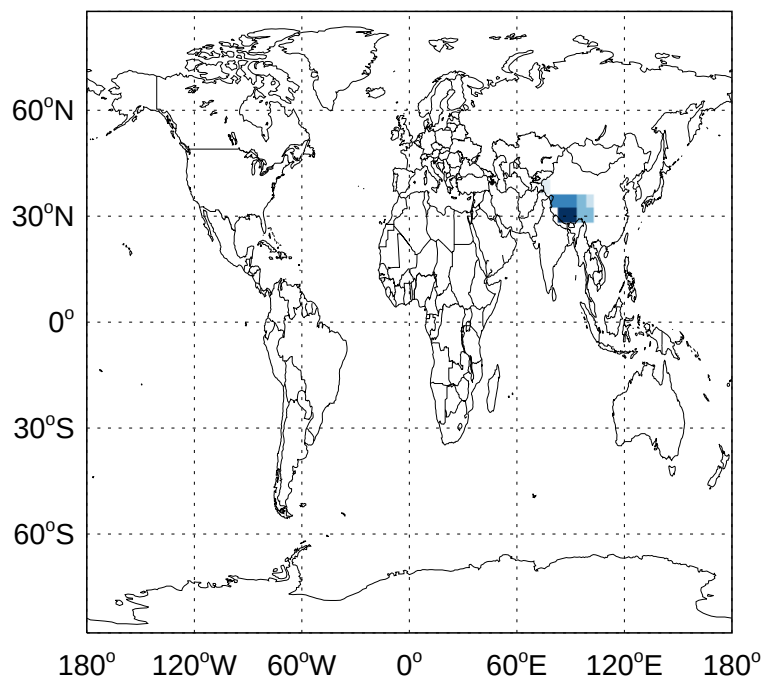
v11-02e-Run0 - v11-02d-Run1

JCH3Cl - J-Value Diff @ surface for Apr



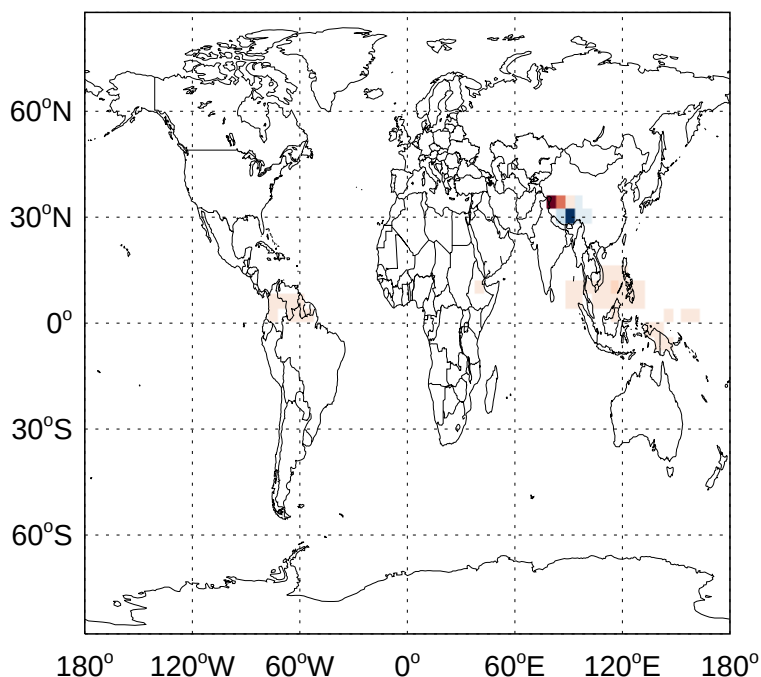
v11-02e-Run0 - v11-02d-Run1

JCH3Cl - J-Value Diff @ 500 hPa for Apr



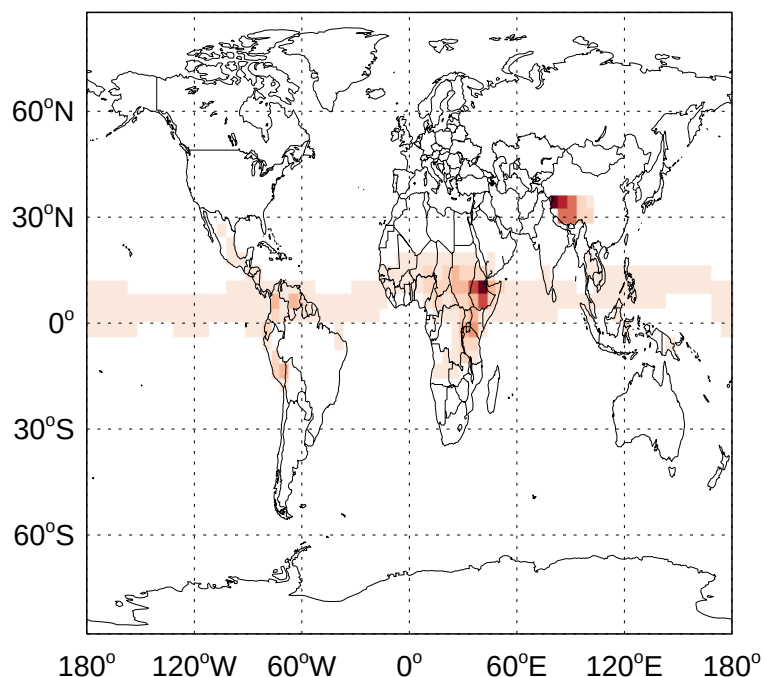
v11-02e-Run0 - v11-02c-Run0

JCH3Cl - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

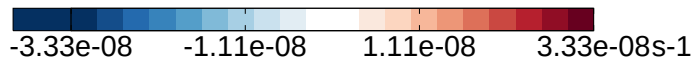
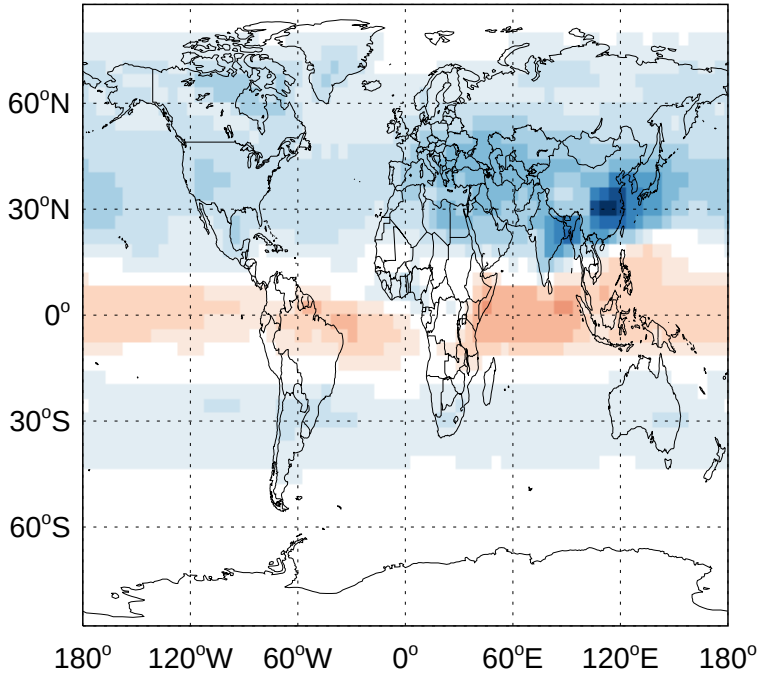
JCH3Cl - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

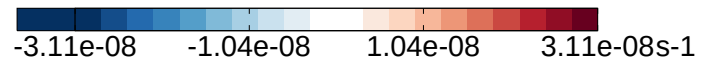
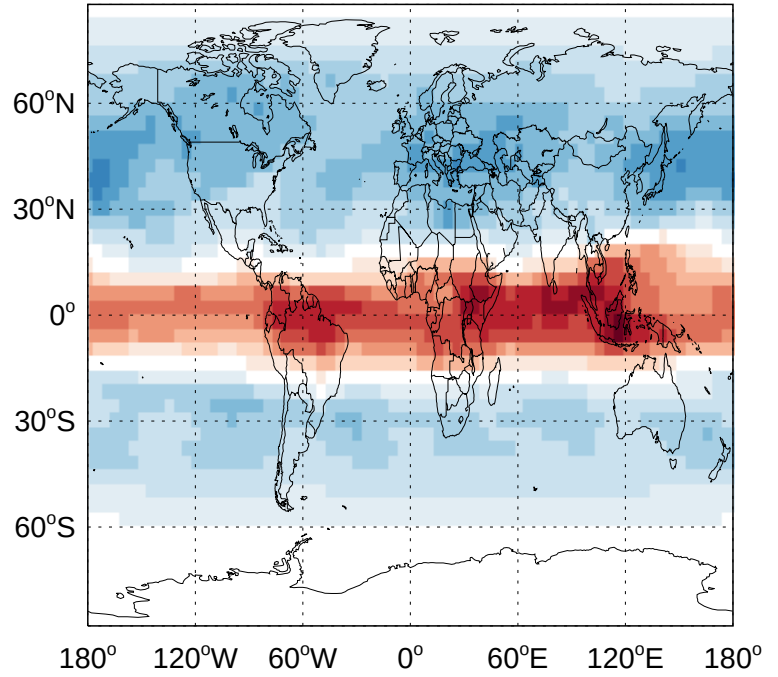
v11-02e-Run0 - v11-02d-Run1

JACET - J-Value Diff @ surface for Apr



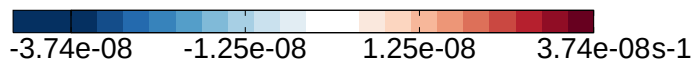
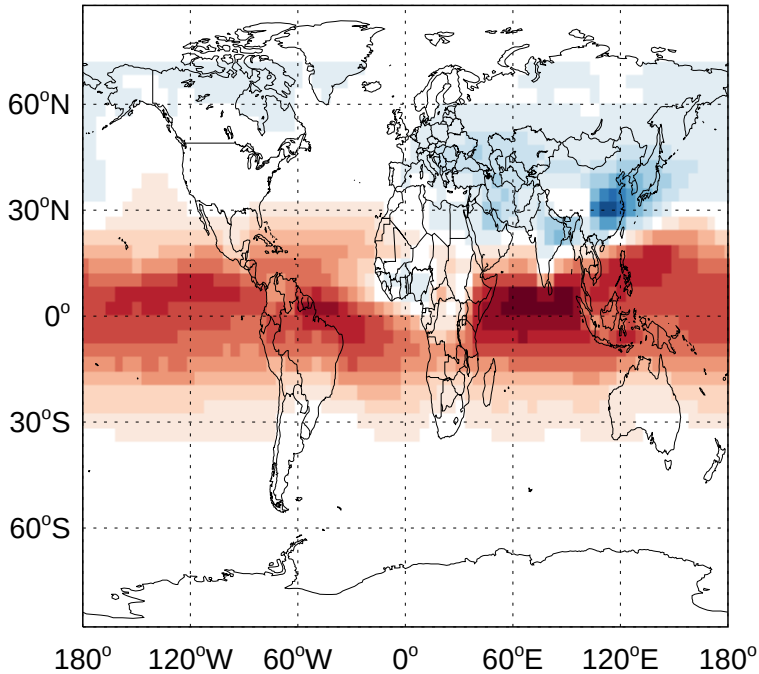
v11-02e-Run0 - v11-02d-Run1

JACET - J-Value Diff @ 500 hPa for Apr



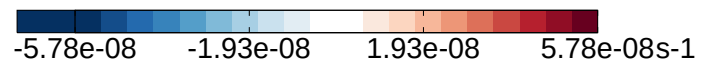
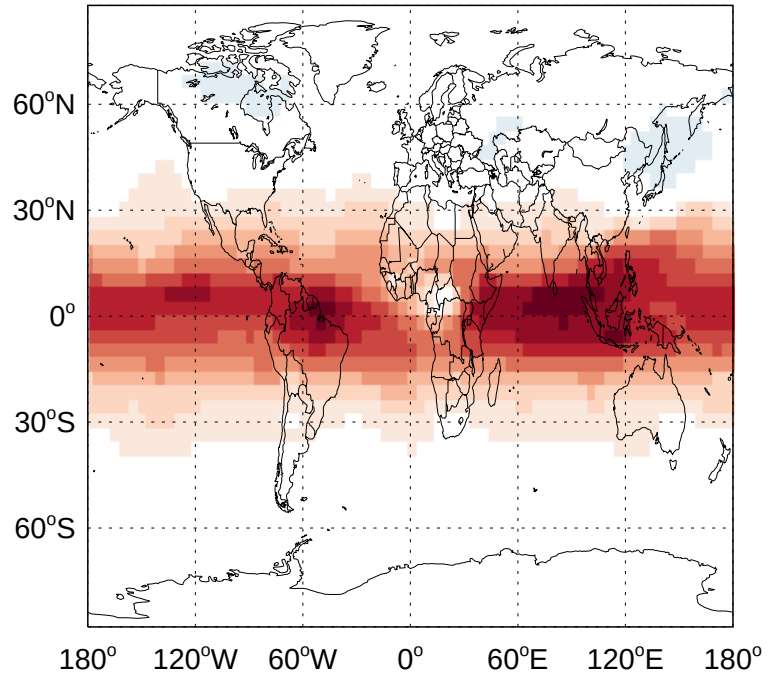
v11-02e-Run0 - v11-02c-Run0

JACET - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

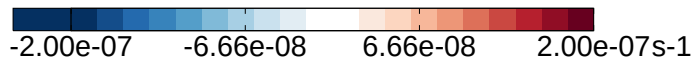
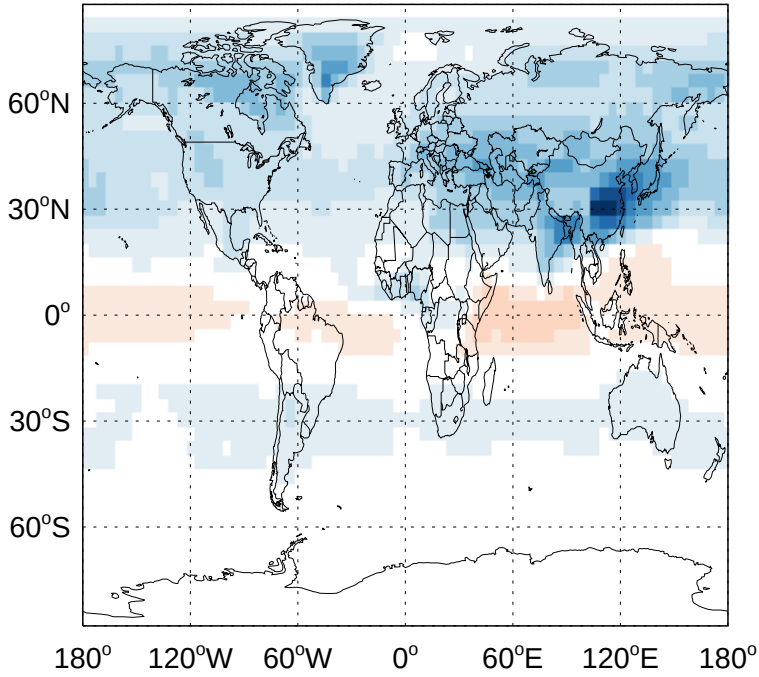
JACET - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

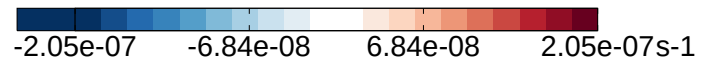
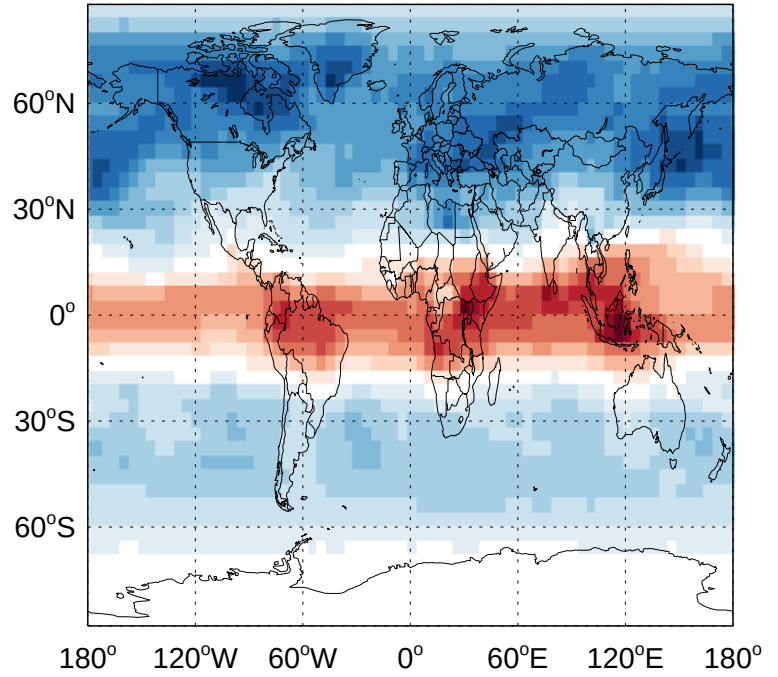
v11-02e-Run0 - v11-02d-Run1

JALD2 - J-Value Diff @ surface for Apr



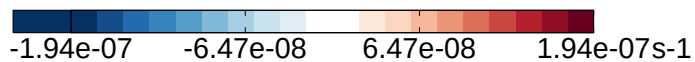
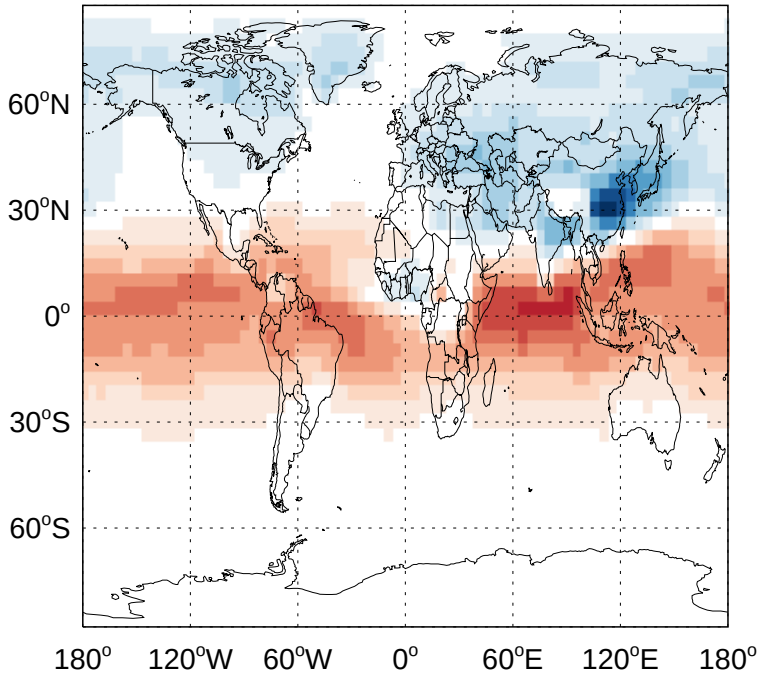
v11-02e-Run0 - v11-02d-Run1

JALD2 - J-Value Diff @ 500 hPa for Apr



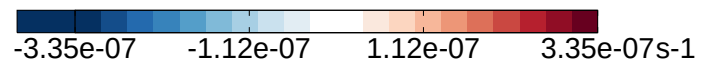
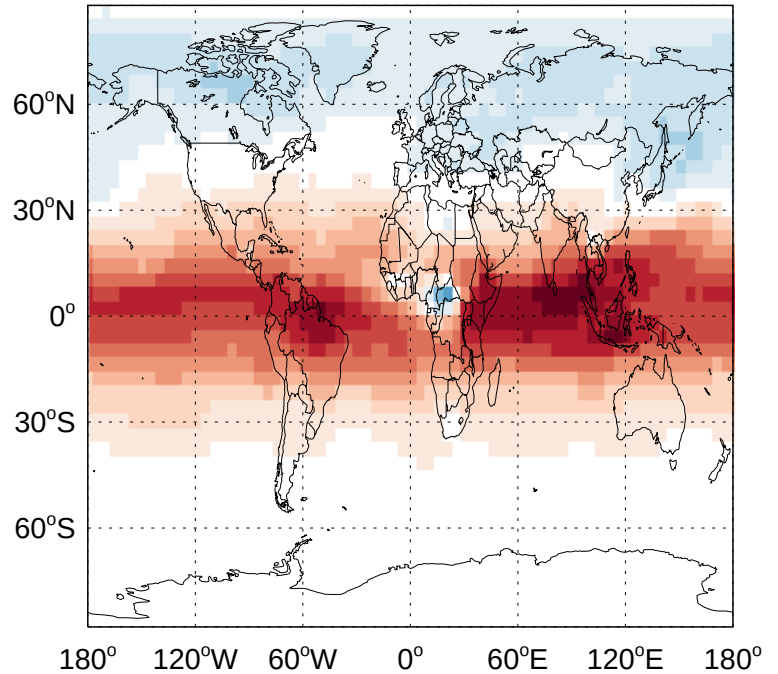
v11-02e-Run0 - v11-02c-Run0

JALD2 - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

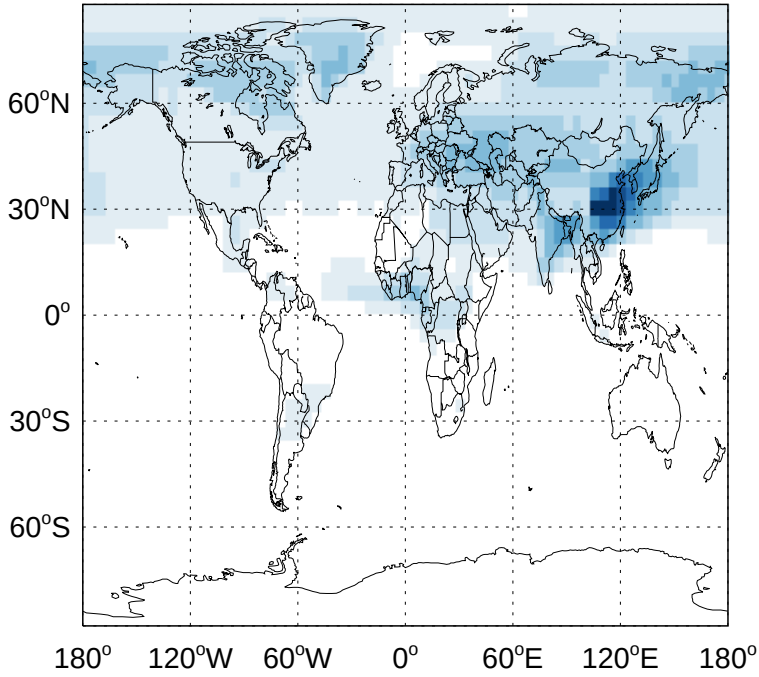
JALD2 - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

v11-02e-Run0 - v11-02d-Run1

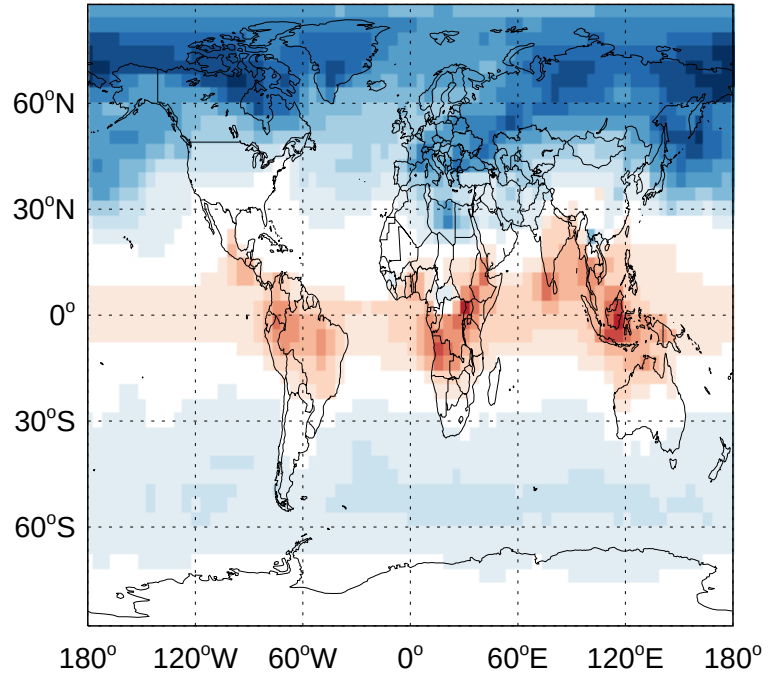
JMVK - J-Value Diff @ surface for Apr



-2.07e-07 -6.90e-08 6.90e-08 2.07e-07s-1

v11-02e-Run0 - v11-02d-Run1

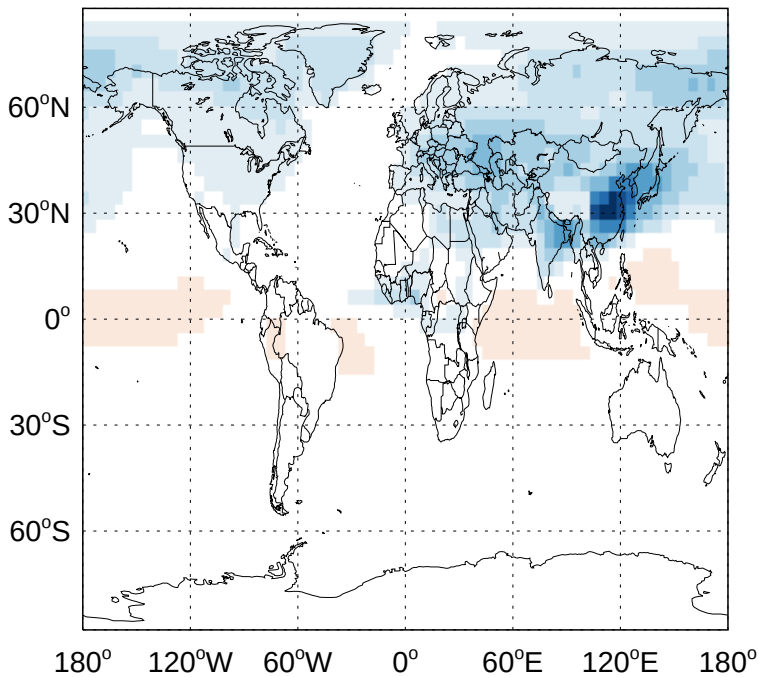
JMVK - J-Value Diff @ 500 hPa for Apr



-1.57e-07 -5.24e-08 5.24e-08 1.57e-07s-1

v11-02e-Run0 - v11-02c-Run0

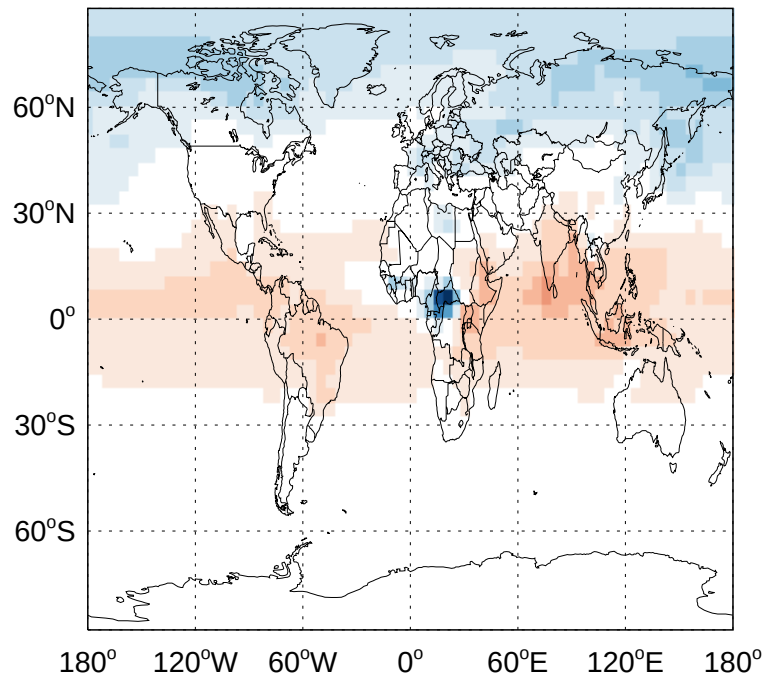
JMVK - J-Value Diff @ surface for Apr



-2.05e-07 -6.84e-08 6.84e-08 2.05e-07s-1

v11-02e-Run0 - v11-02c-Run0

JMVK - J-Value Diff @ 500 hPa for Apr

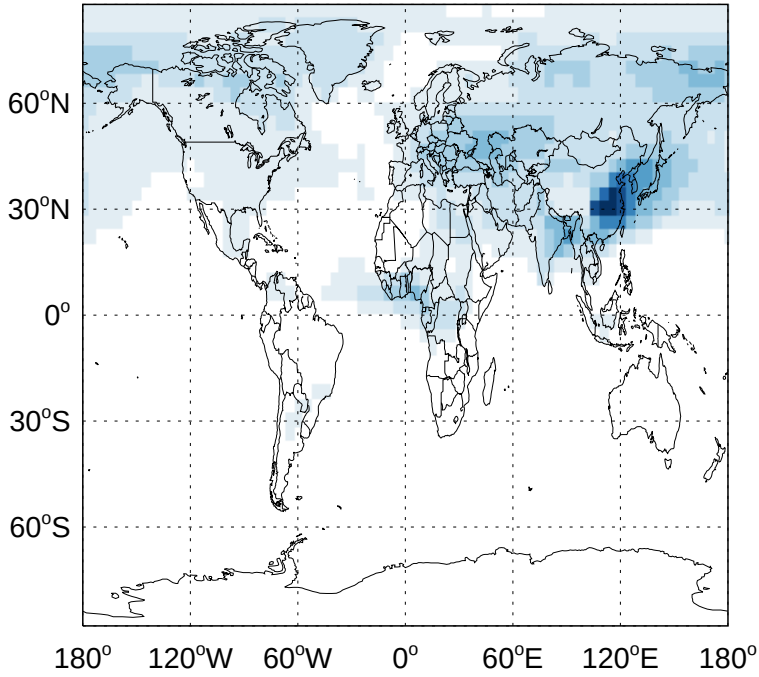


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GEOS-Chem J-Values at surface and 500 hPa

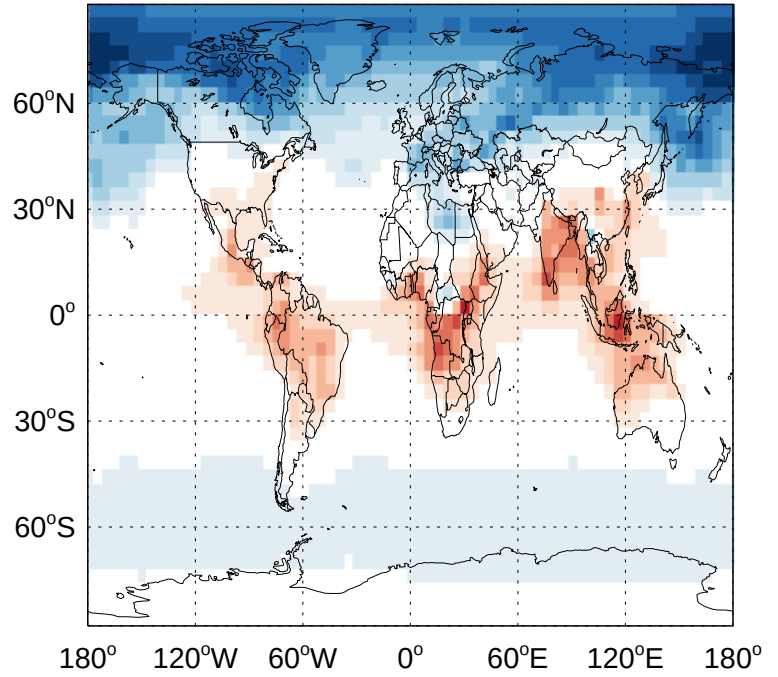
v11-02e-Run0 - v11-02d-Run1

JMACR - J-Value Diff @ surface for Apr



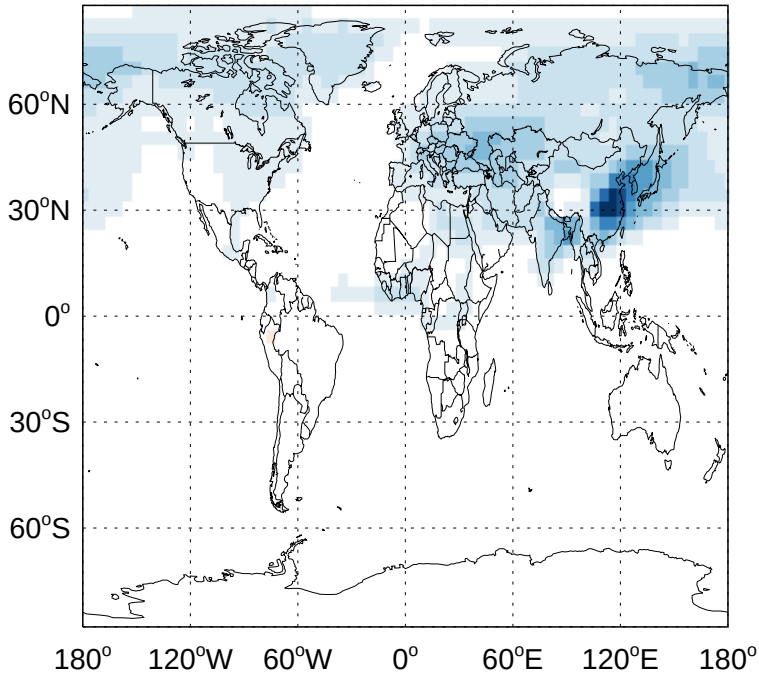
v11-02e-Run0 - v11-02d-Run1

JMACR - J-Value Diff @ 500 hPa for Apr



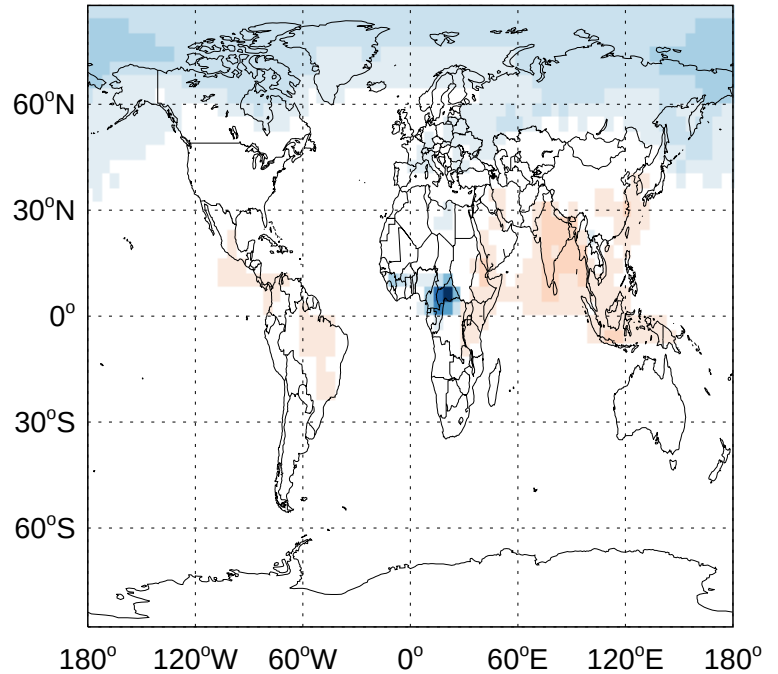
v11-02e-Run0 - v11-02c-Run0

JMACR - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

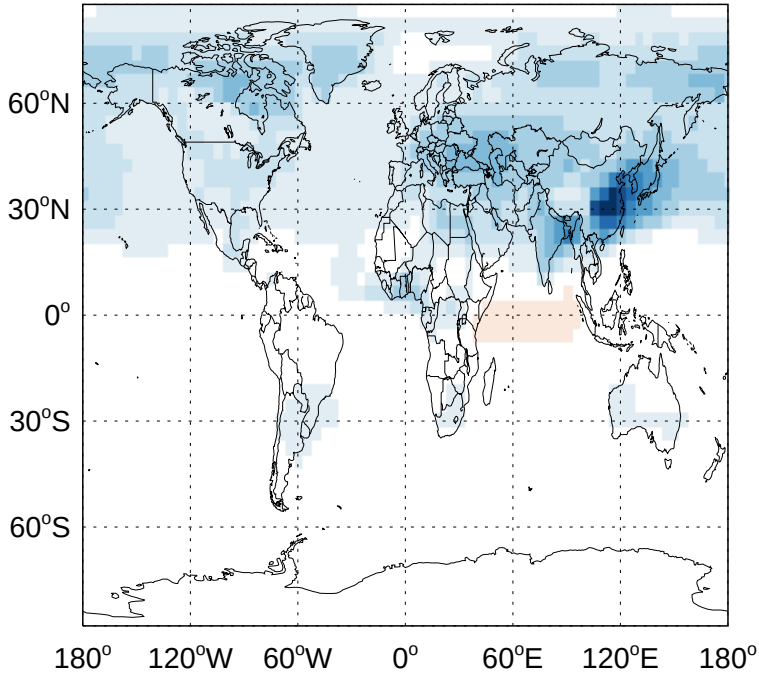
JMACR - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

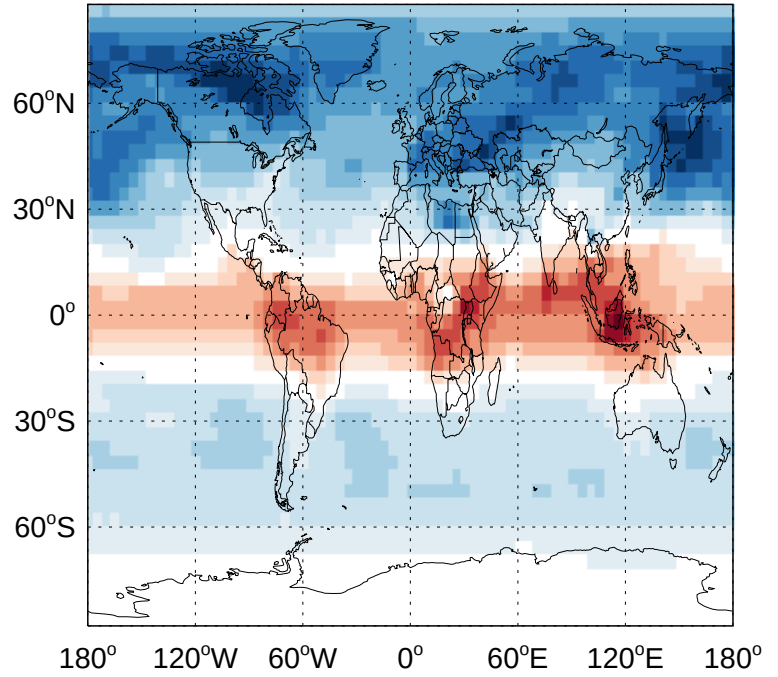
v11-02e-Run0 - v11-02d-Run1

JHAC - J-Value Diff @ surface for Apr



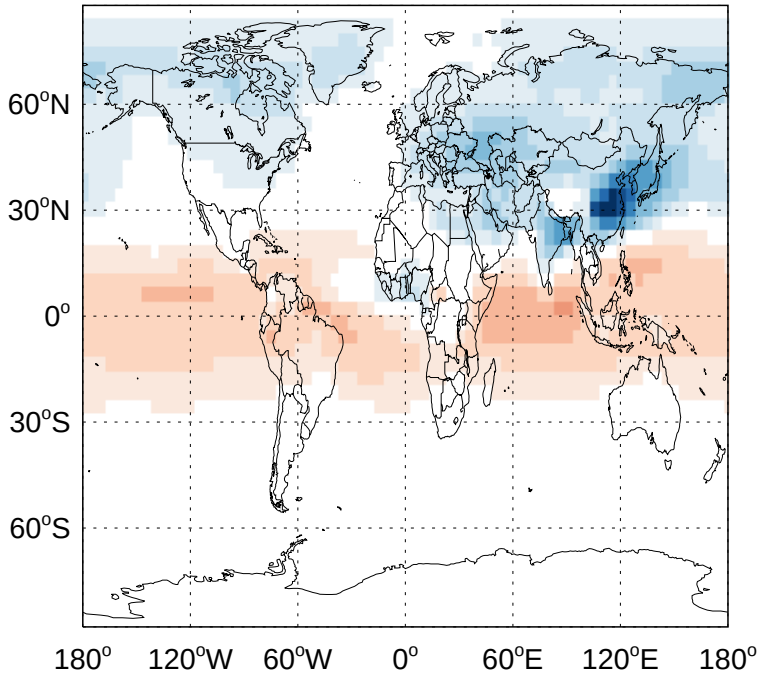
v11-02e-Run0 - v11-02d-Run1

JHAC - J-Value Diff @ 500 hPa for Apr



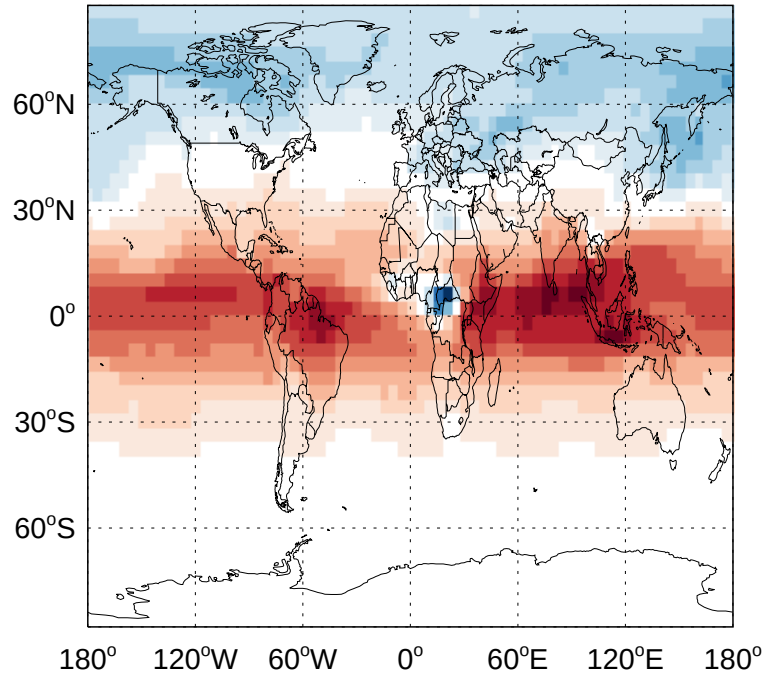
v11-02e-Run0 - v11-02c-Run0

JHAC - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

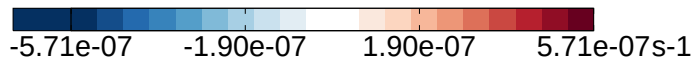
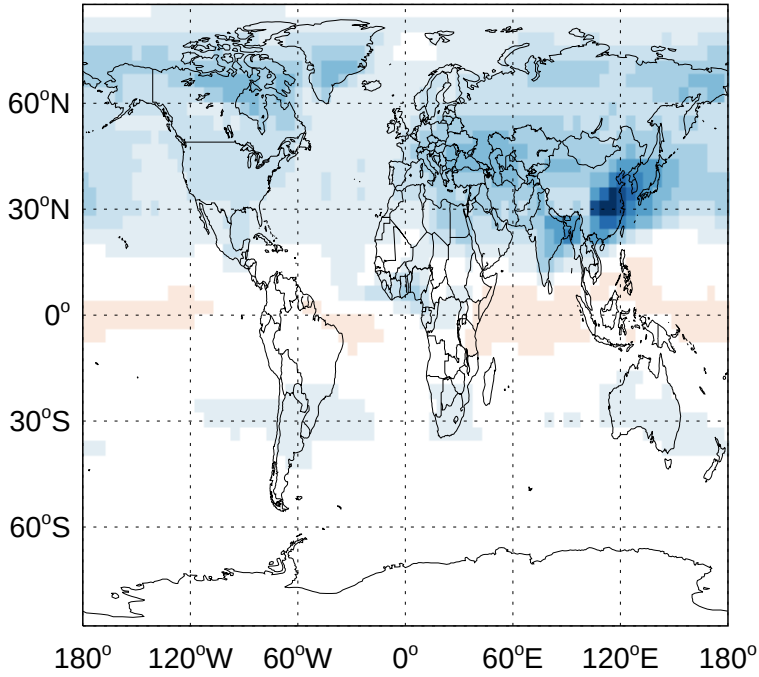
JHAC - J-Value Diff @ 500 hPa for Apr



GEOS-Chem J-Values at surface and 500 hPa

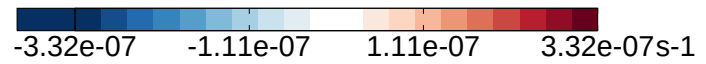
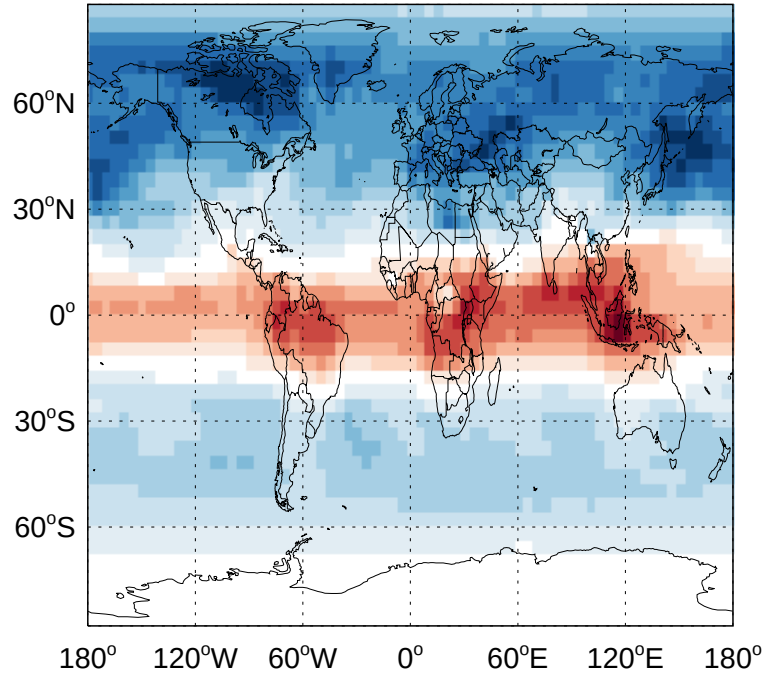
v11-02e-Run0 - v11-02d-Run1

JGLYC - J-Value Diff @ surface for Apr



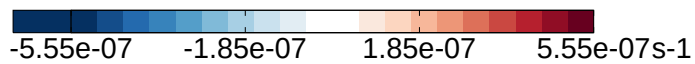
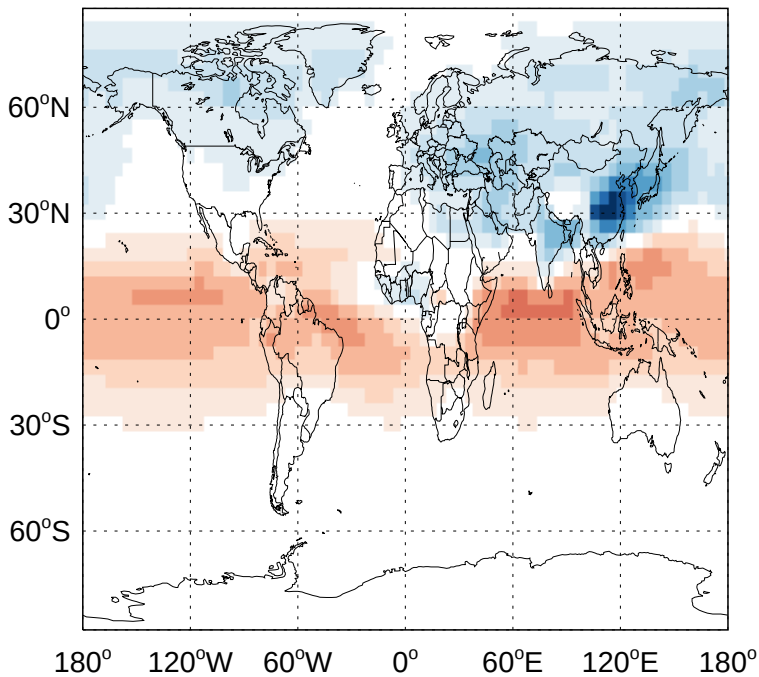
v11-02e-Run0 - v11-02d-Run1

JGLYC - J-Value Diff @ 500 hPa for Apr



v11-02e-Run0 - v11-02c-Run0

JGLYC - J-Value Diff @ surface for Apr



v11-02e-Run0 - v11-02c-Run0

JGLYC - J-Value Diff @ 500 hPa for Apr

