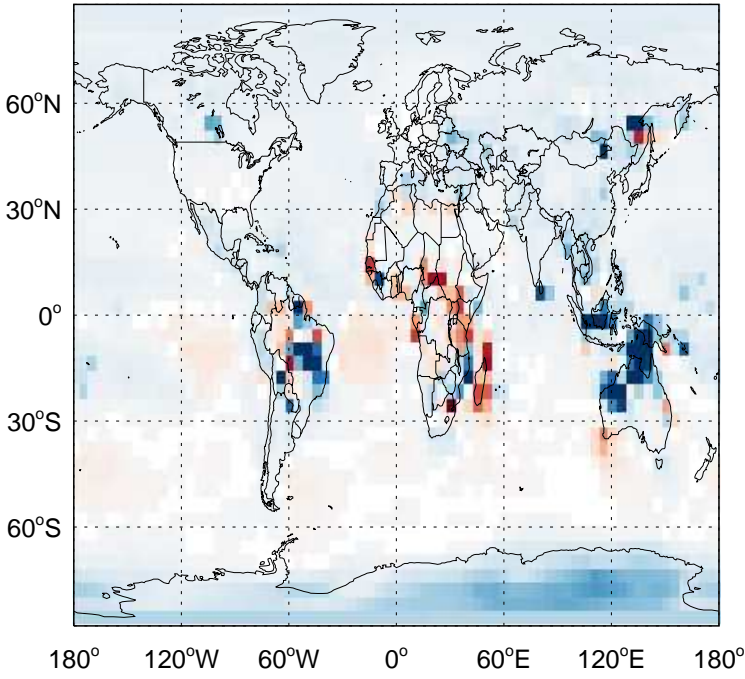
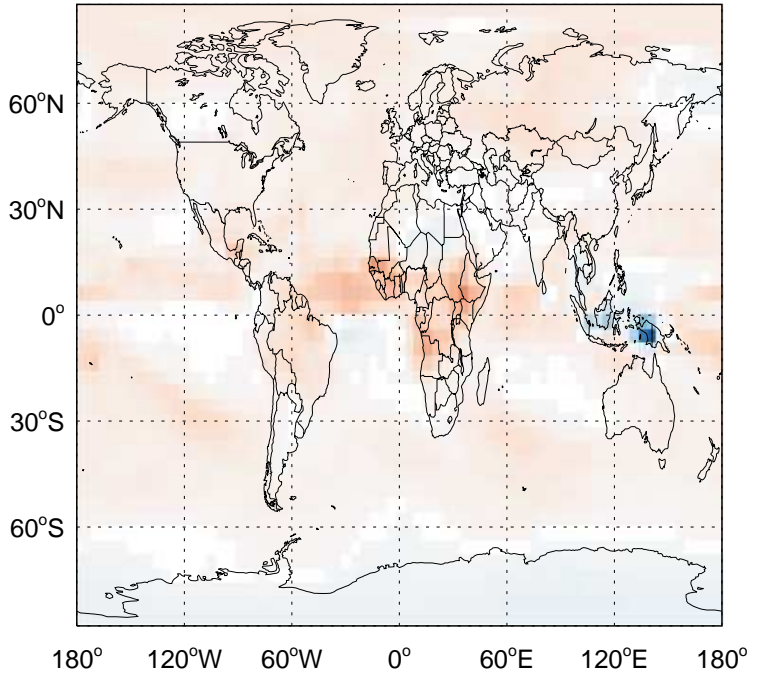


# GEOS-Chem Ratio Maps at surface and 500 hPa

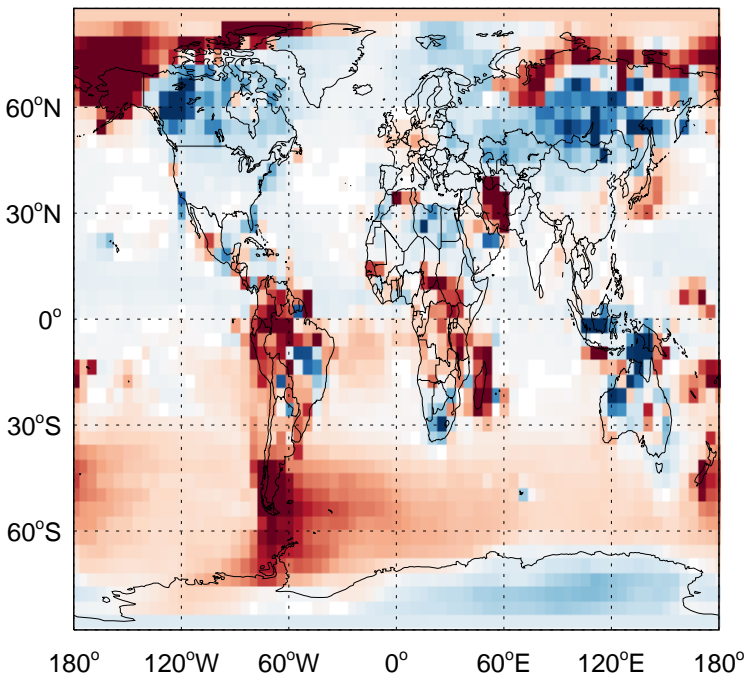
GC\_12.0.0 / v11-02f-Run1  
NO / Ratio @ Surface for Oct



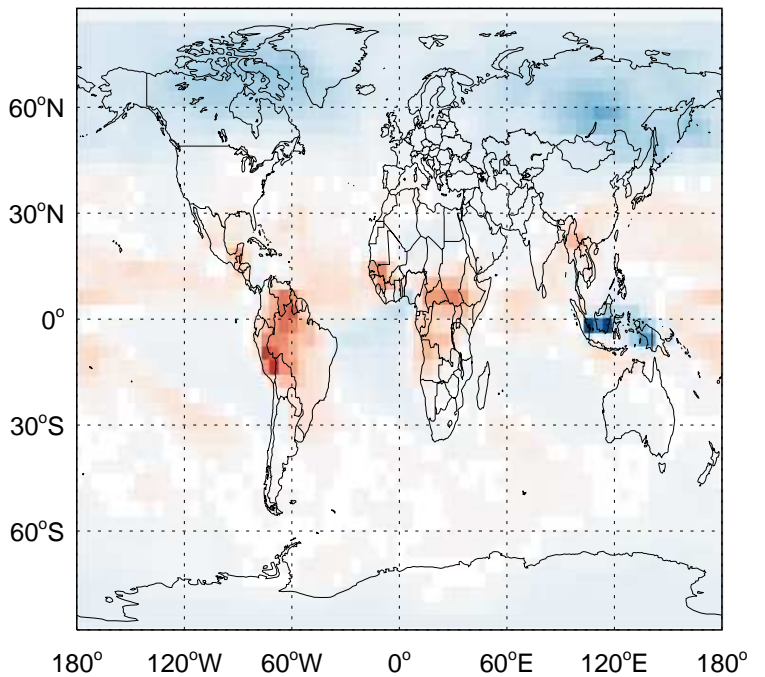
GC\_12.0.0 / v11-02f-Run1  
NO / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NO / Ratio @ Surface for Oct

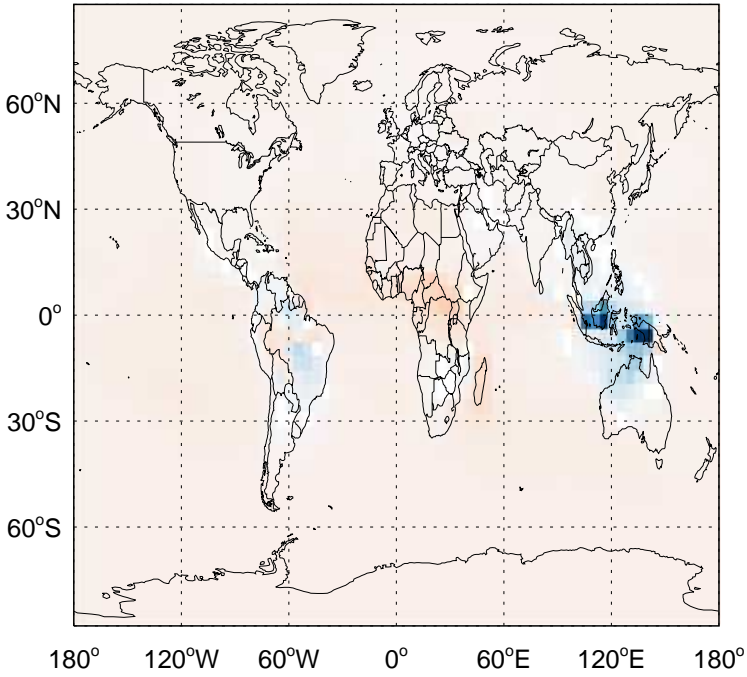


GC\_12.0.0 / v11-02e-Run1  
NO / Ratio @ 500 hPa for Oct

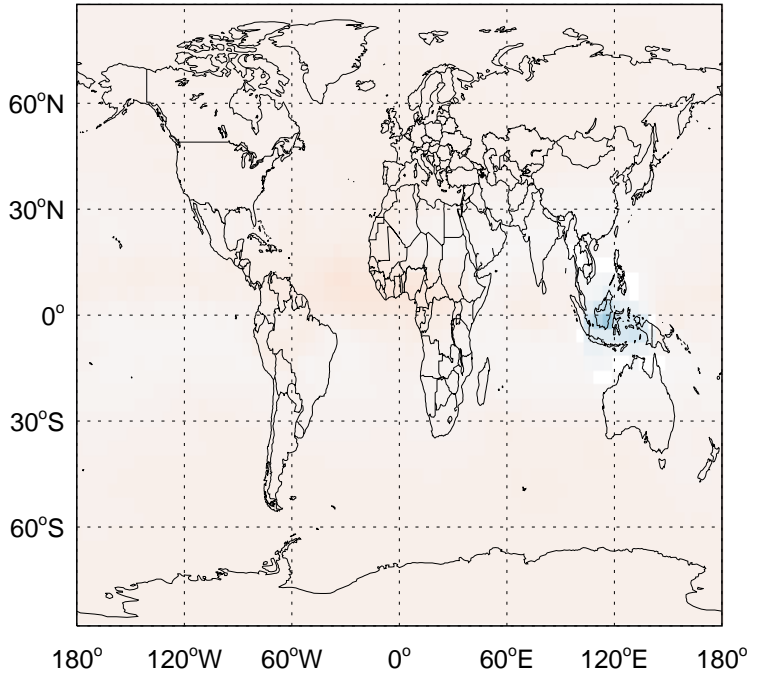


# GEOS-Chem Ratio Maps at surface and 500 hPa

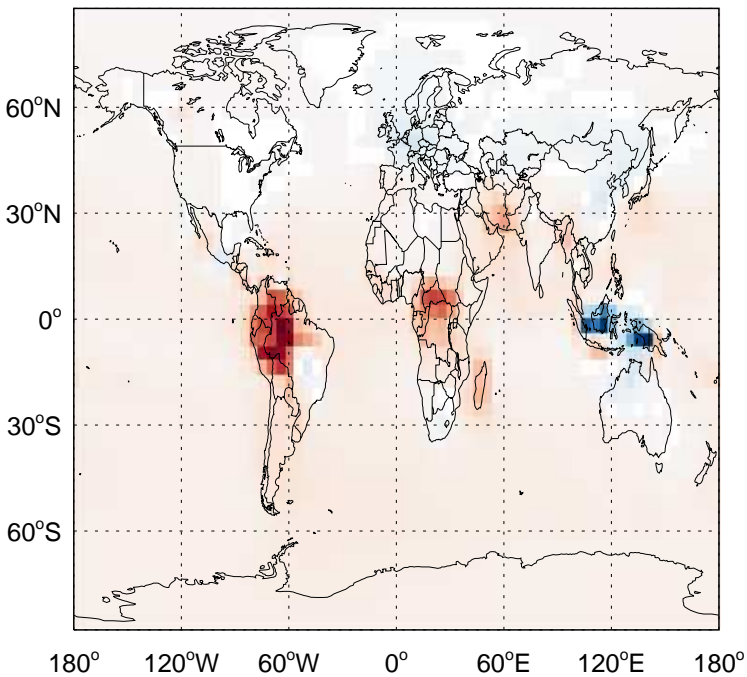
GC\_12.0.0 / v11-02f-Run1  
O3 / Ratio @ Surface for Oct



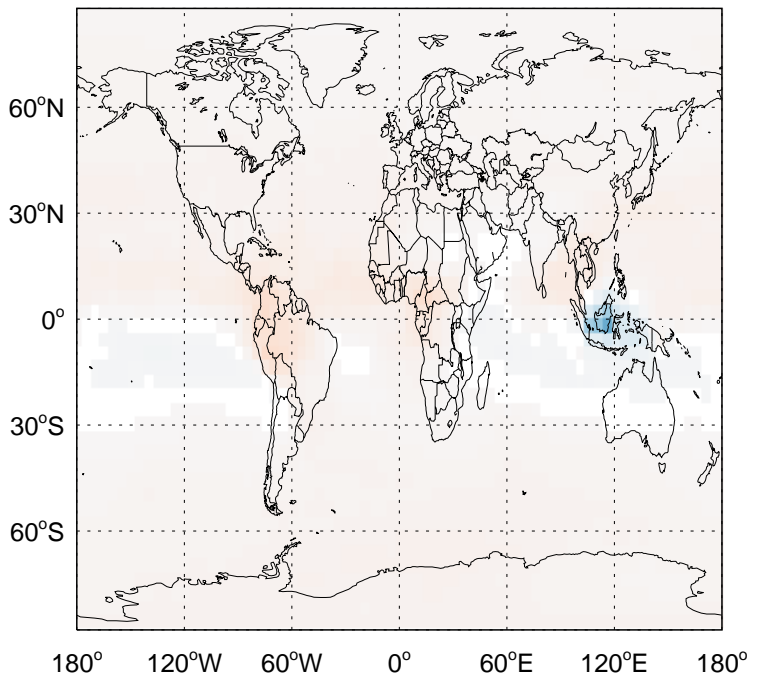
GC\_12.0.0 / v11-02f-Run1  
O3 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
O3 / Ratio @ Surface for Oct



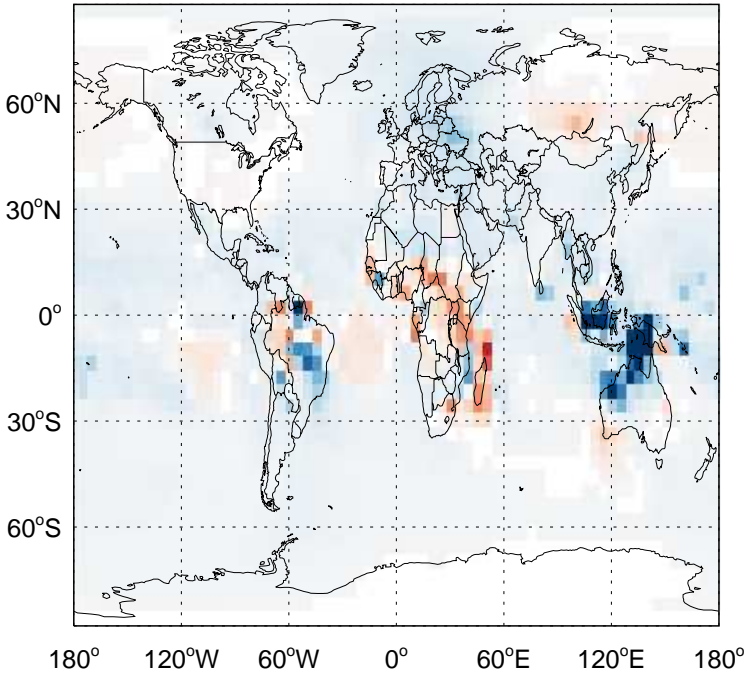
GC\_12.0.0 / v11-02e-Run1  
O3 / Ratio @ 500 hPa for Oct



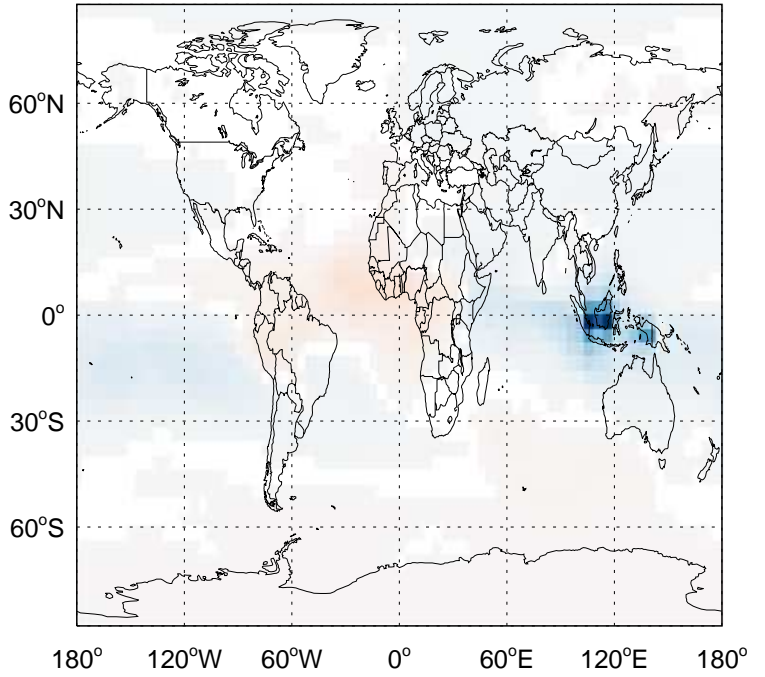


# GEOS-Chem Ratio Maps at surface and 500 hPa

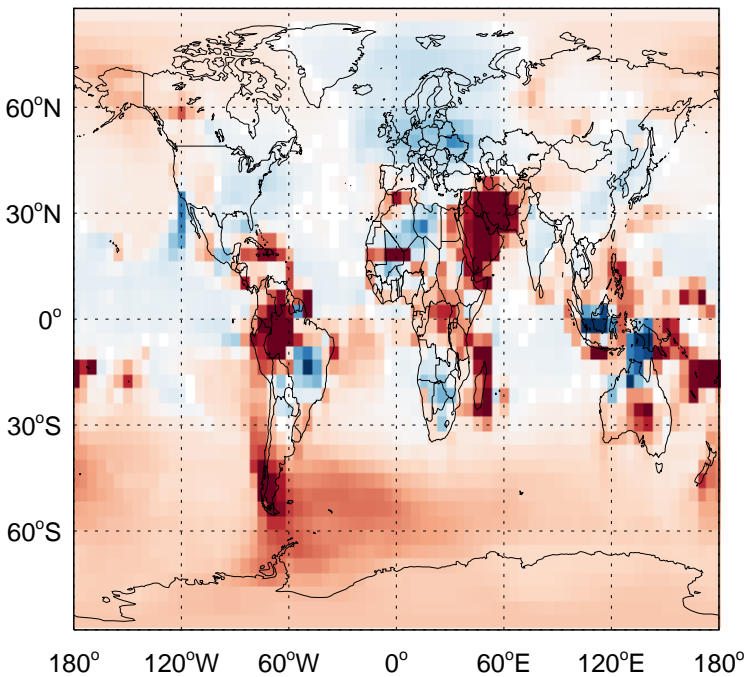
GC\_12.0.0 / v11-02f-Run1  
PAN / Ratio @ Surface for Oct



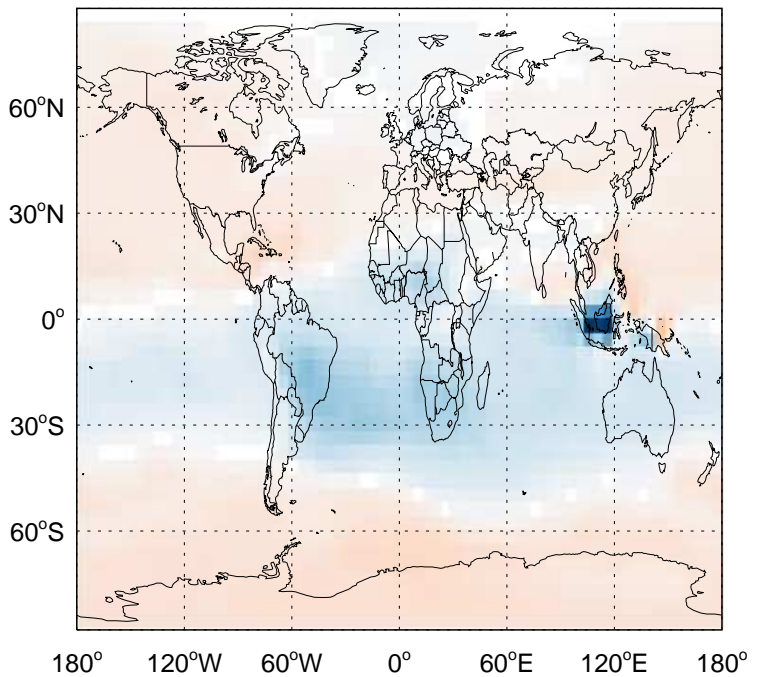
GC\_12.0.0 / v11-02f-Run1  
PAN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
PAN / Ratio @ Surface for Oct

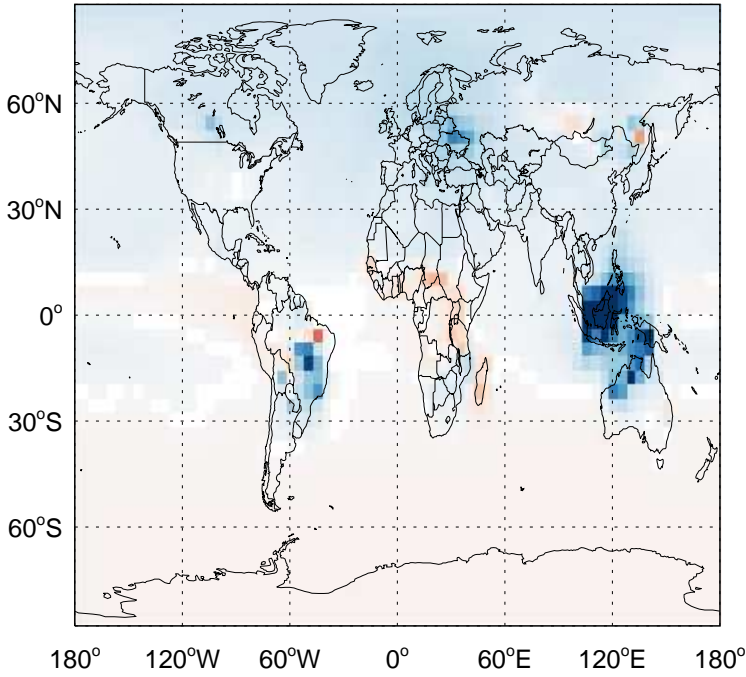


GC\_12.0.0 / v11-02e-Run1  
PAN/ Ratio @ 500 hPa for Oct

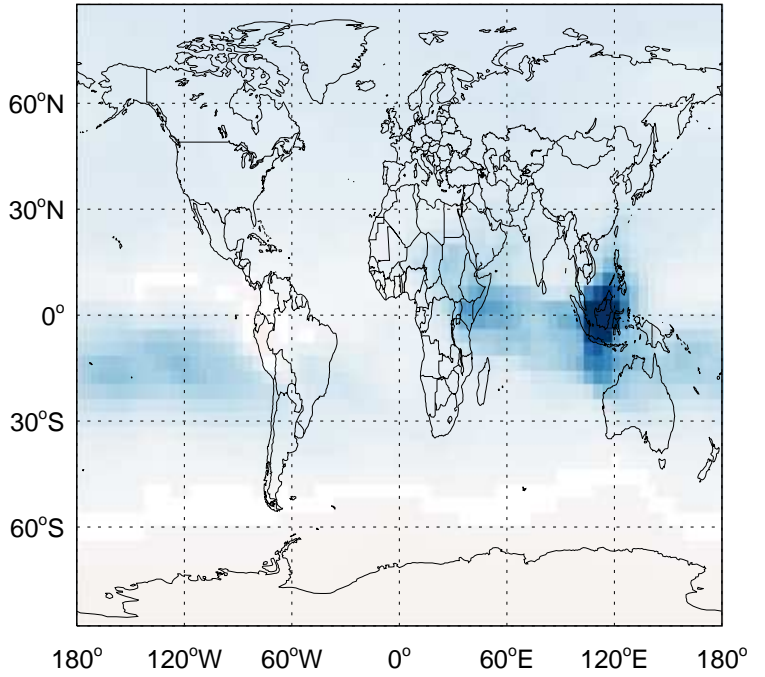


# GEOS-Chem Ratio Maps at surface and 500 hPa

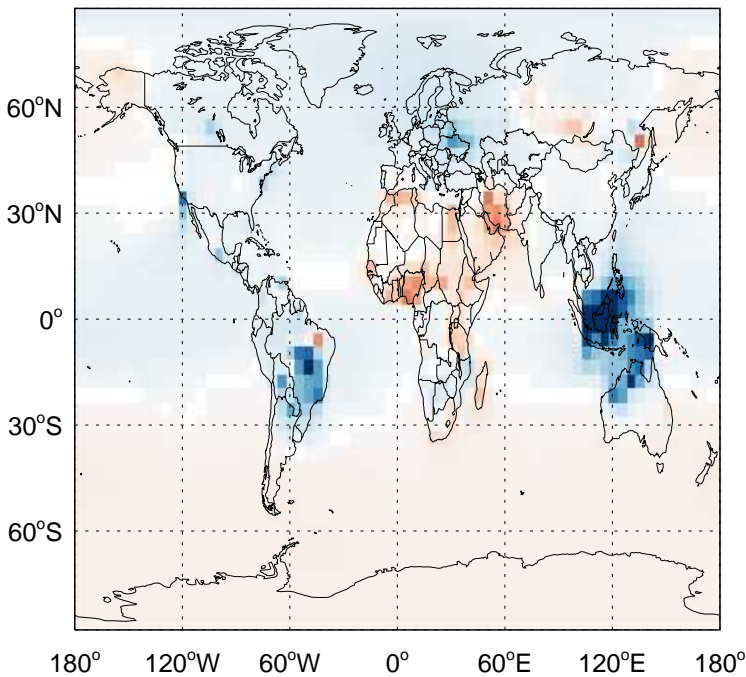
GC\_12.0.0 / v11-02f-Run1  
CO / Ratio @ Surface for Oct



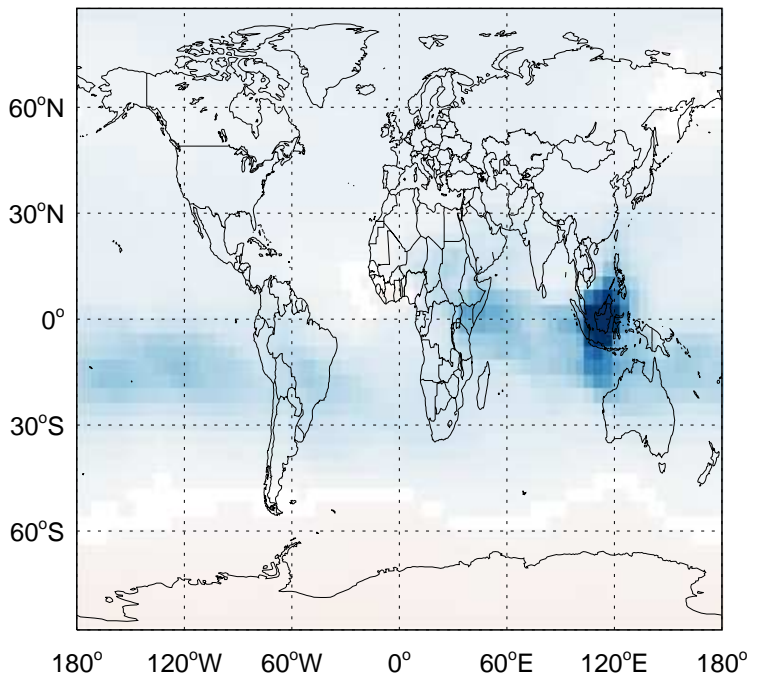
GC\_12.0.0 / v11-02f-Run1  
CO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CO / Ratio @ Surface for Oct

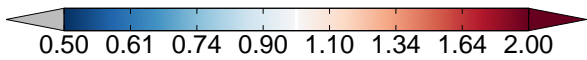
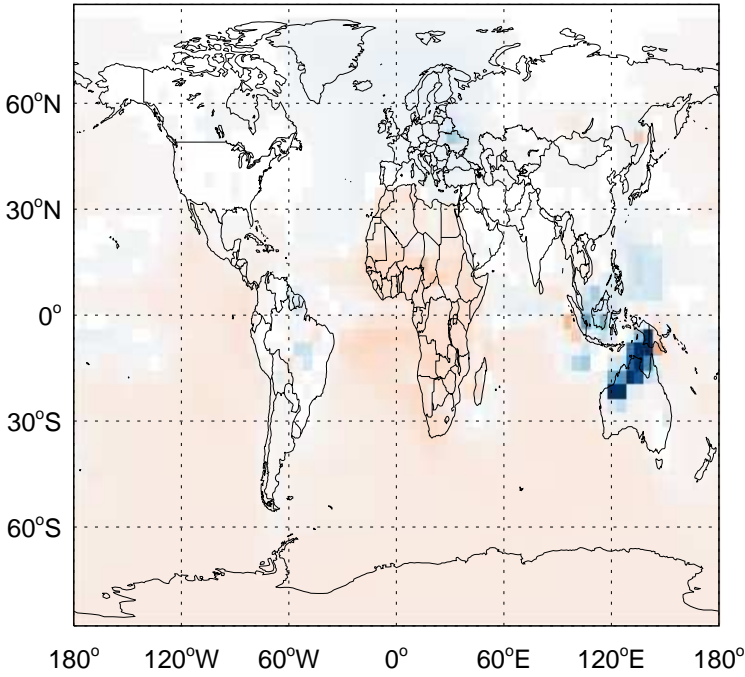


GC\_12.0.0 / v11-02e-Run1  
CO/ Ratio @ 500 hPa for Oct

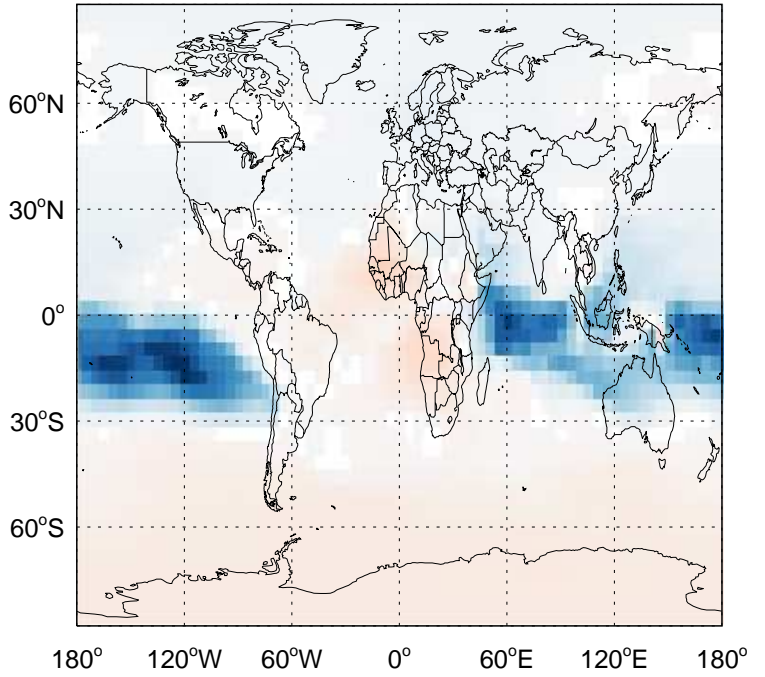


# GEOS-Chem Ratio Maps at surface and 500 hPa

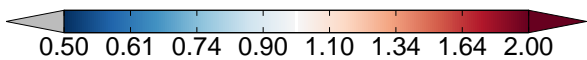
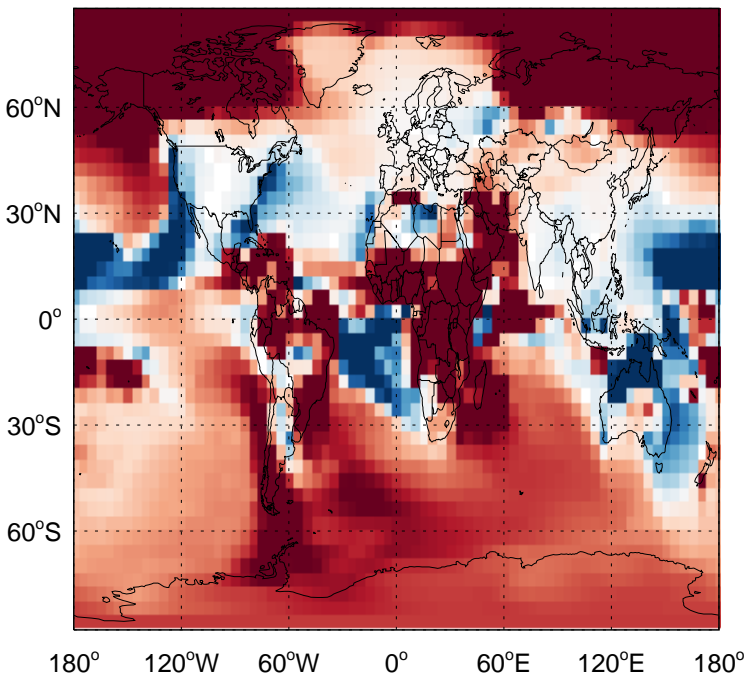
GC\_12.0.0 / v11-02f-Run1  
ALK4 / Ratio @ Surface for Oct



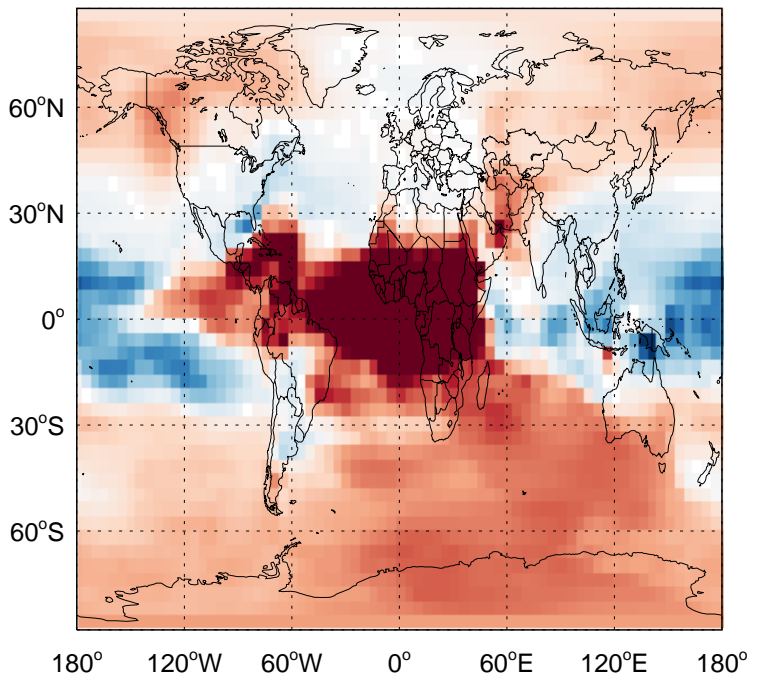
GC\_12.0.0 / v11-02f-Run1  
ALK4 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ALK4 / Ratio @ Surface for Oct



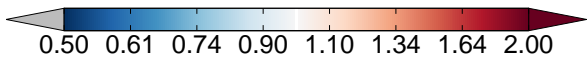
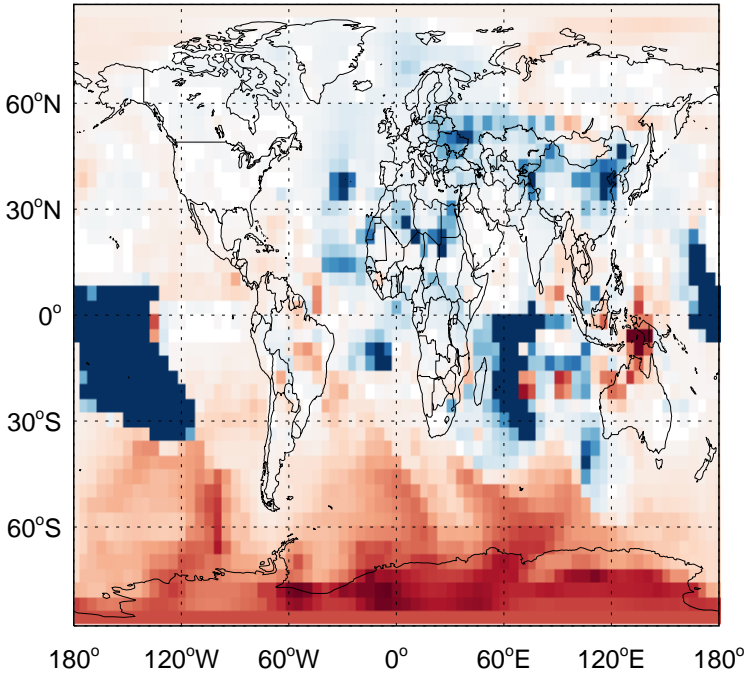
GC\_12.0.0 / v11-02e-Run1  
ALK4 / Ratio @ 500 hPa for Oct



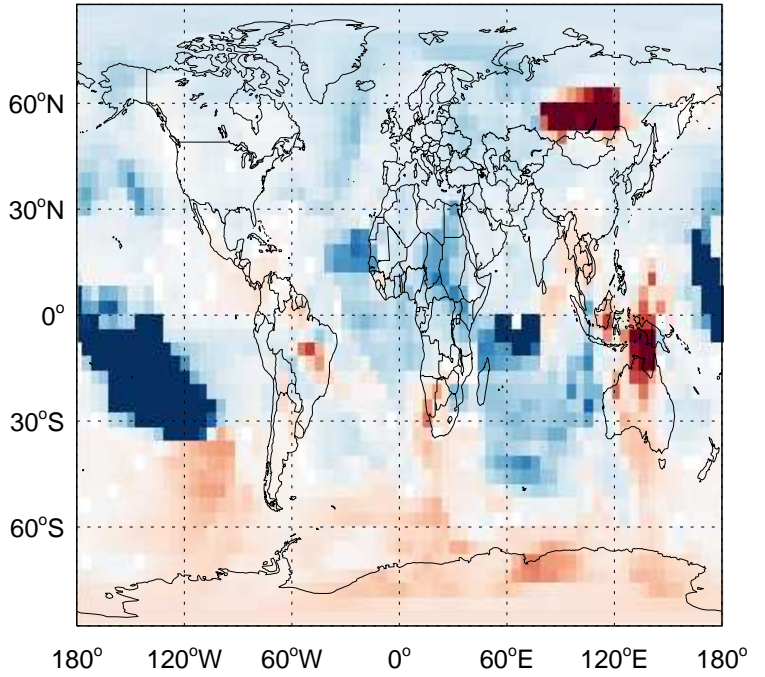


# GEOS-Chem Ratio Maps at surface and 500 hPa

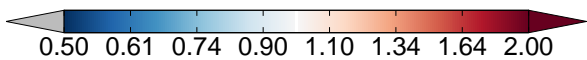
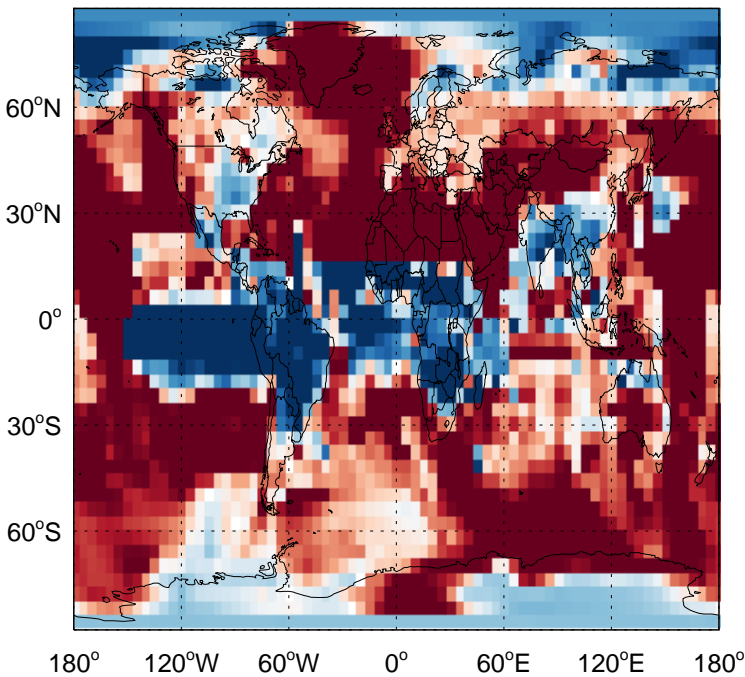
GC\_12.0.0 / v11-02f-Run1  
ISOP / Ratio @ Surface for Oct



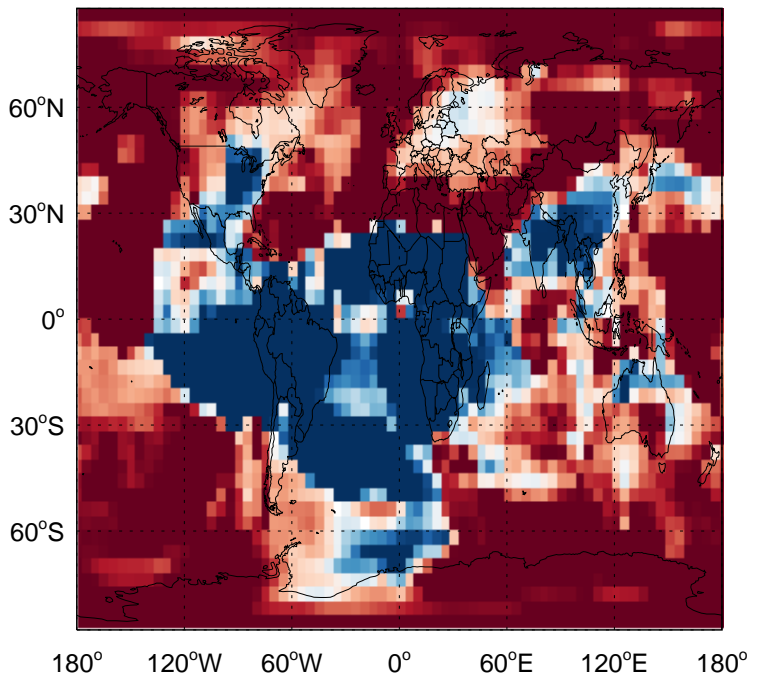
GC\_12.0.0 / v11-02f-Run1  
ISOP / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOP / Ratio @ Surface for Oct

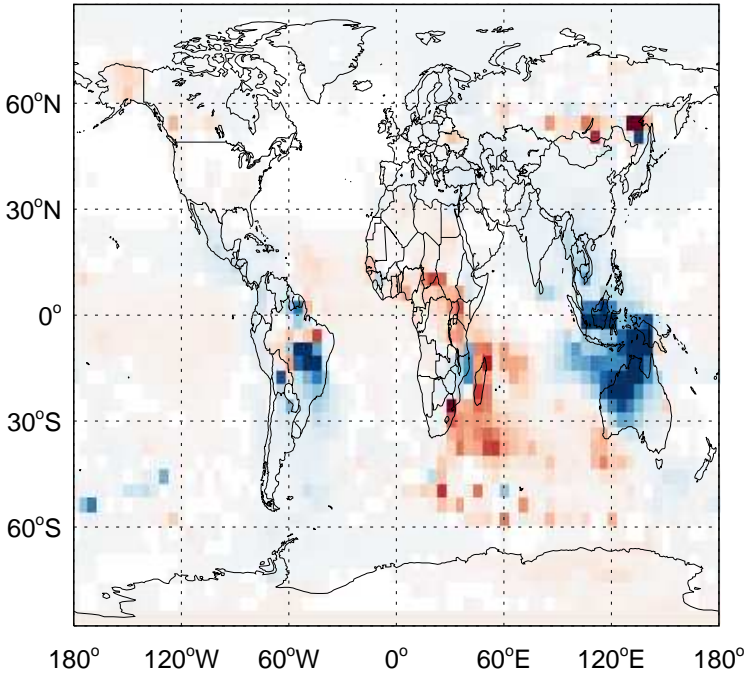


GC\_12.0.0 / v11-02e-Run1  
ISOP / Ratio @ 500 hPa for Oct

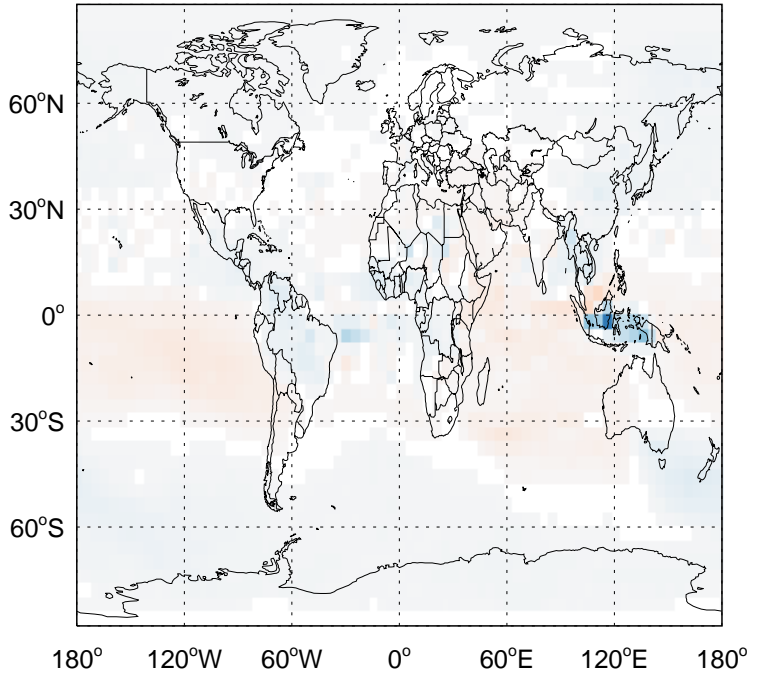


# GEOS-Chem Ratio Maps at surface and 500 hPa

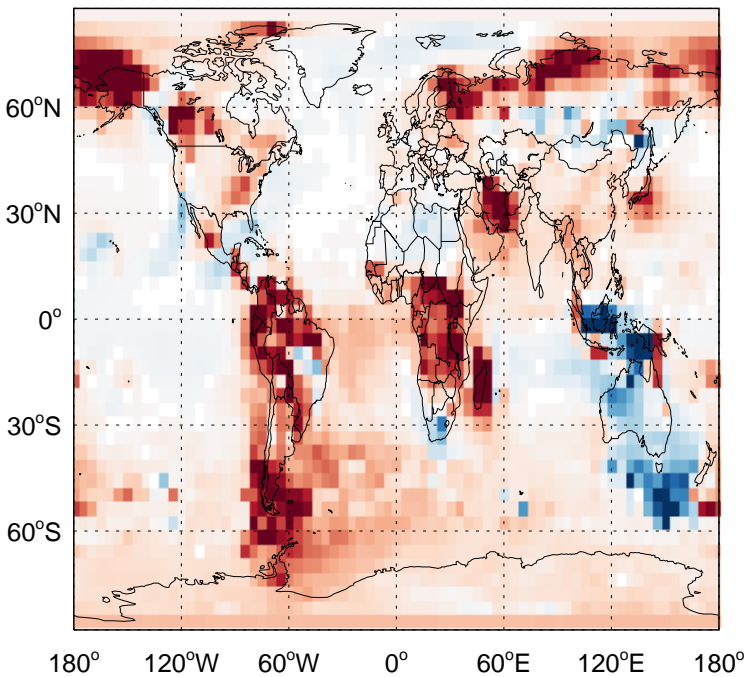
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>3</sub> / Ratio @ Surface for Oct



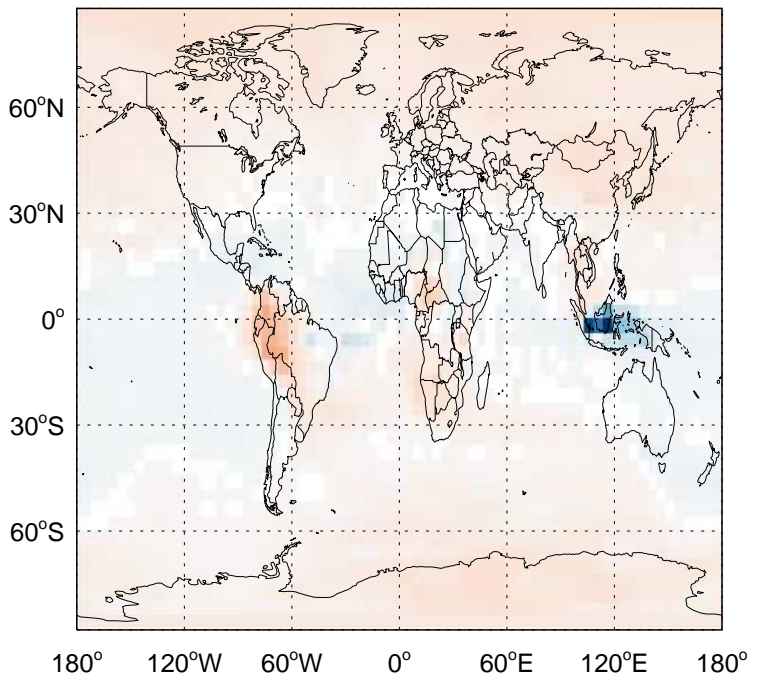
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>3</sub> / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HNO<sub>3</sub> / Ratio @ Surface for Oct

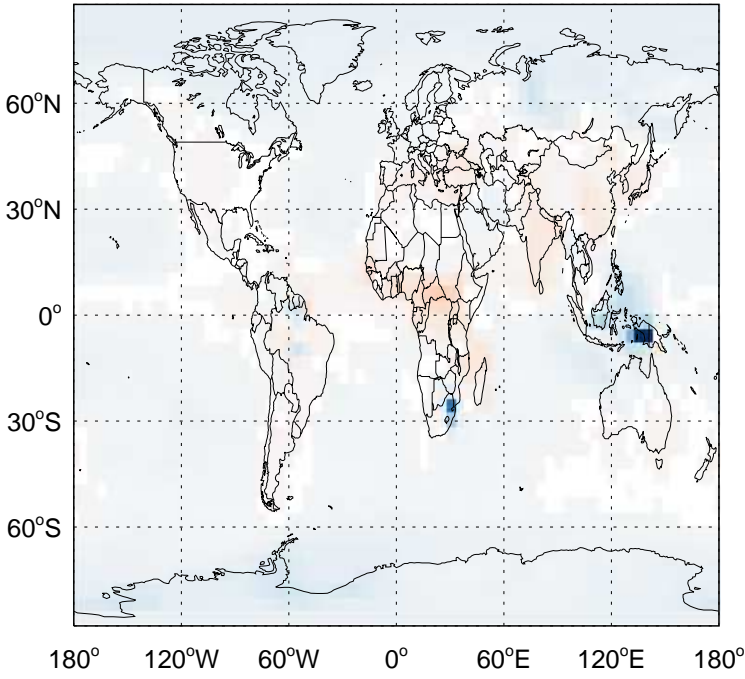


GC\_12.0.0 / v11-02e-Run1  
HNO<sub>3</sub> / Ratio @ 500 hPa for Oct

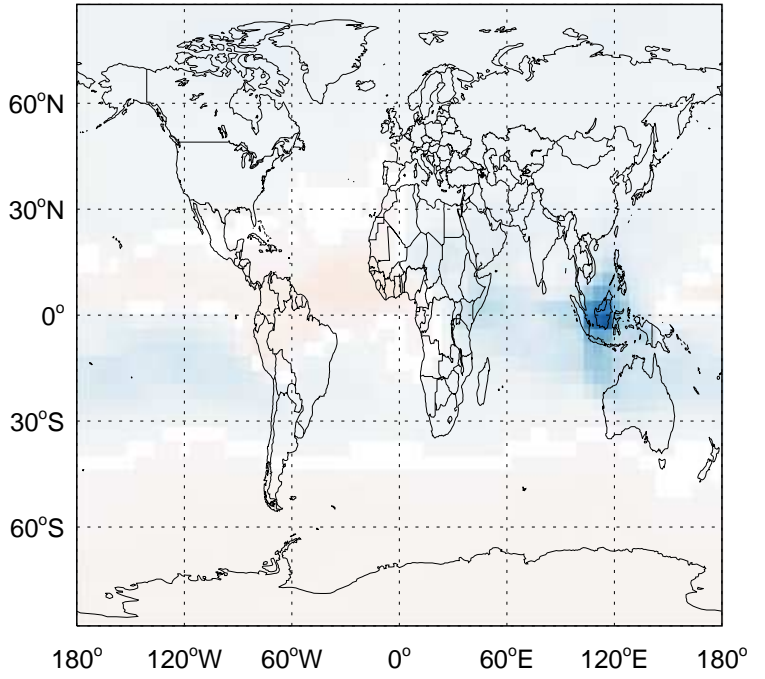


# GEOS-Chem Ratio Maps at surface and 500 hPa

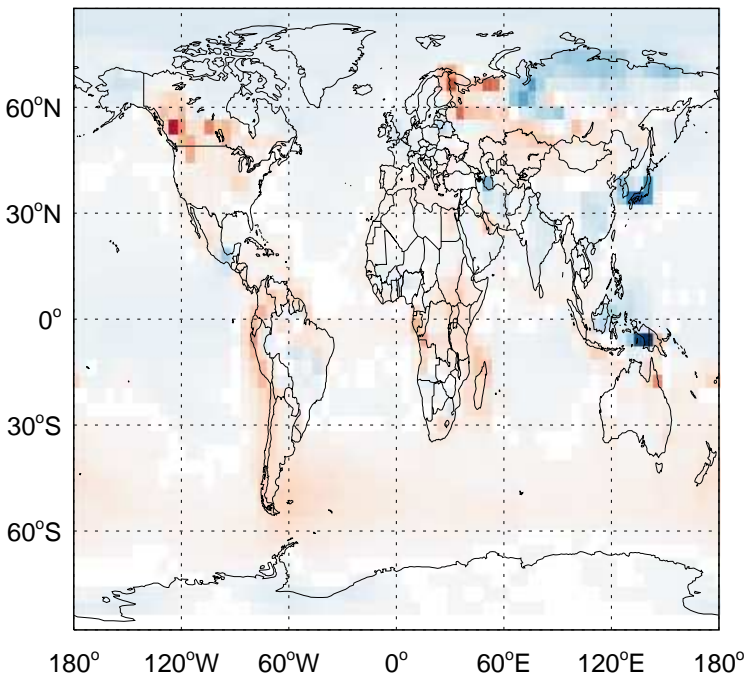
GC\_12.0.0 / v11-02f-Run1  
H2O2 / Ratio @ Surface for Oct



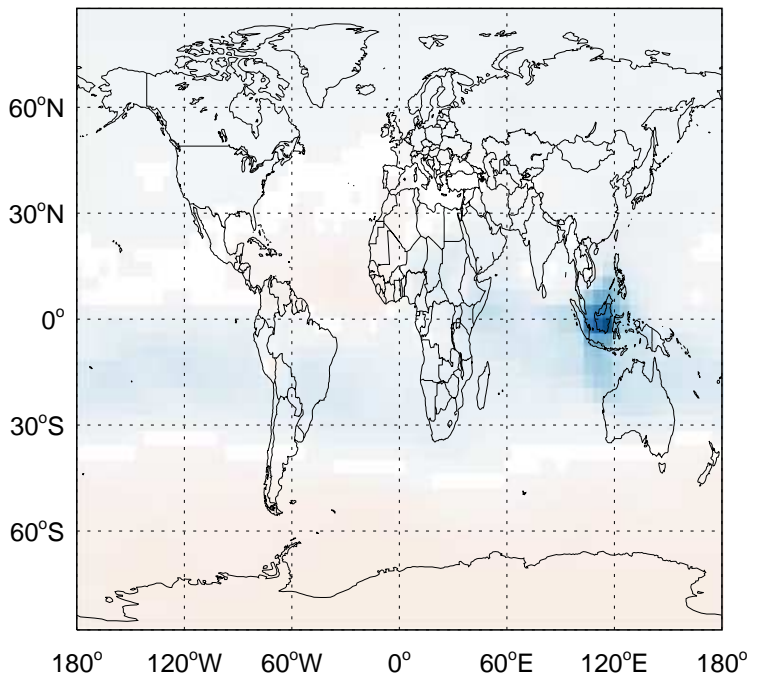
GC\_12.0.0 / v11-02f-Run1  
H2O2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
H2O2 / Ratio @ Surface for Oct



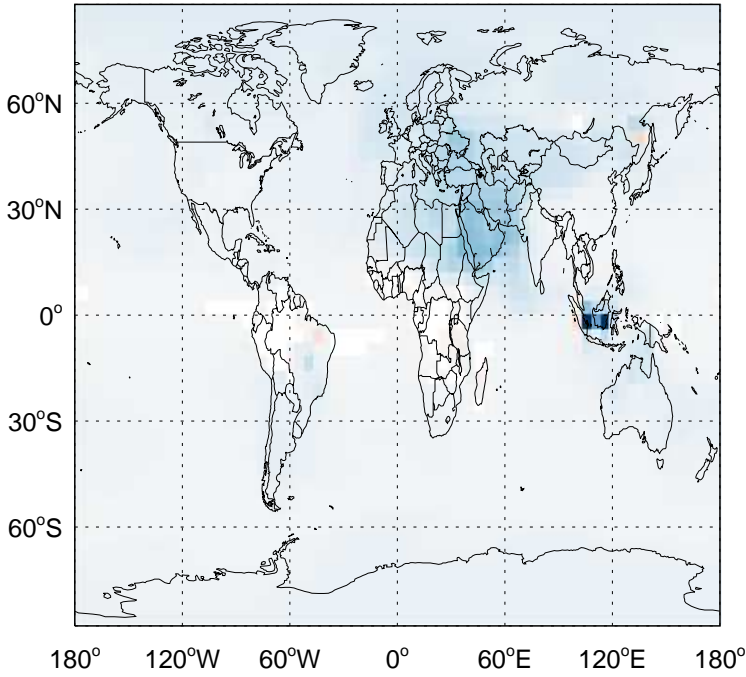
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H2O2/ Ratio @ 500 hPa for Oct



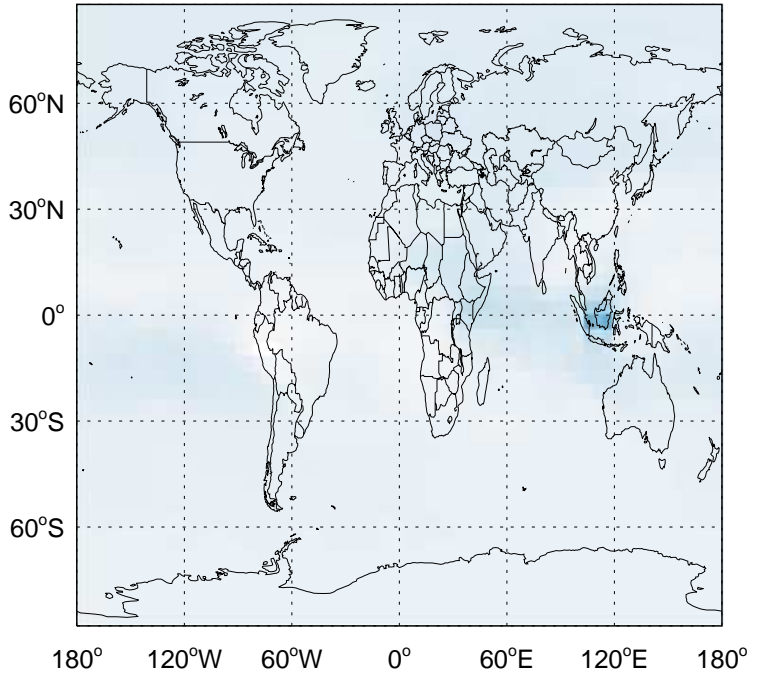


# GEOS-Chem Ratio Maps at surface and 500 hPa

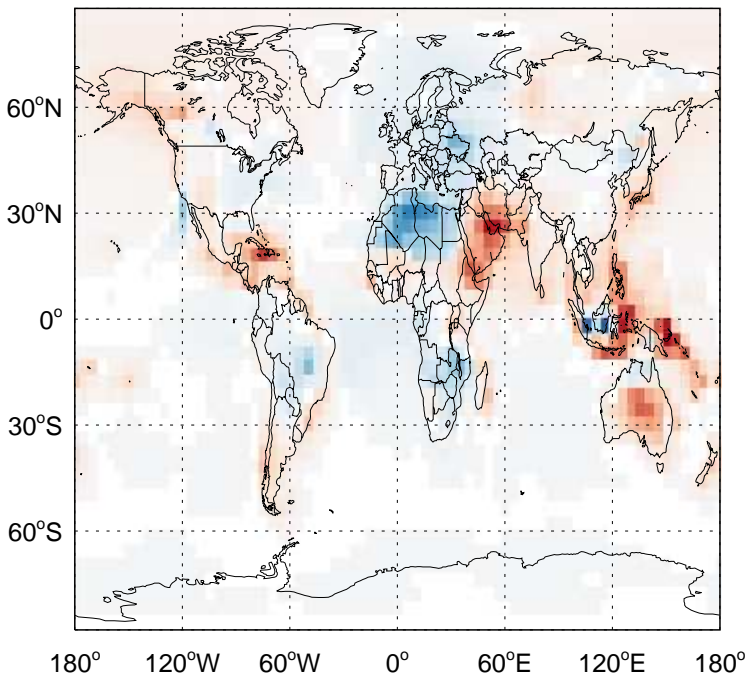
GC\_12.0.0 / v11-02f-Run1  
ACET / Ratio @ Surface for Oct



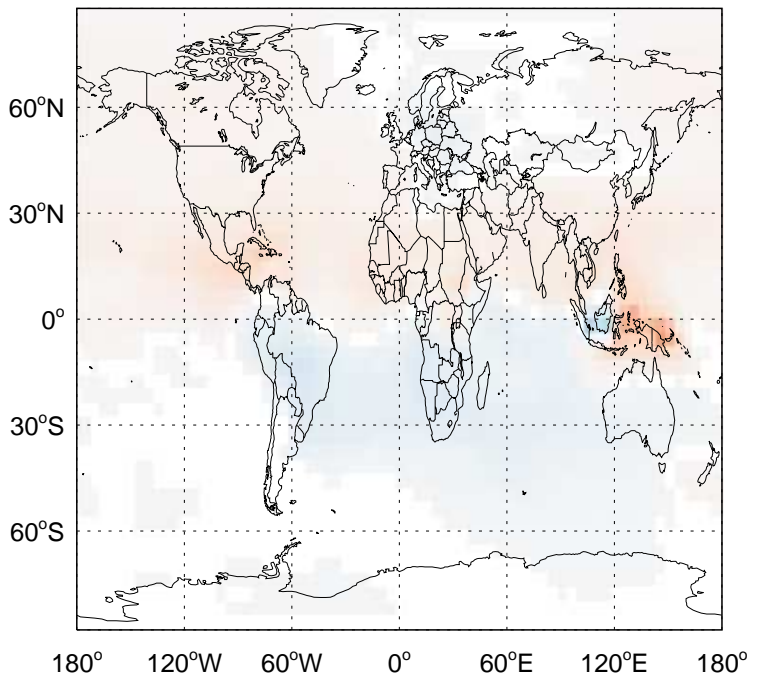
GC\_12.0.0 / v11-02f-Run1  
ACET/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ACET / Ratio @ Surface for Oct

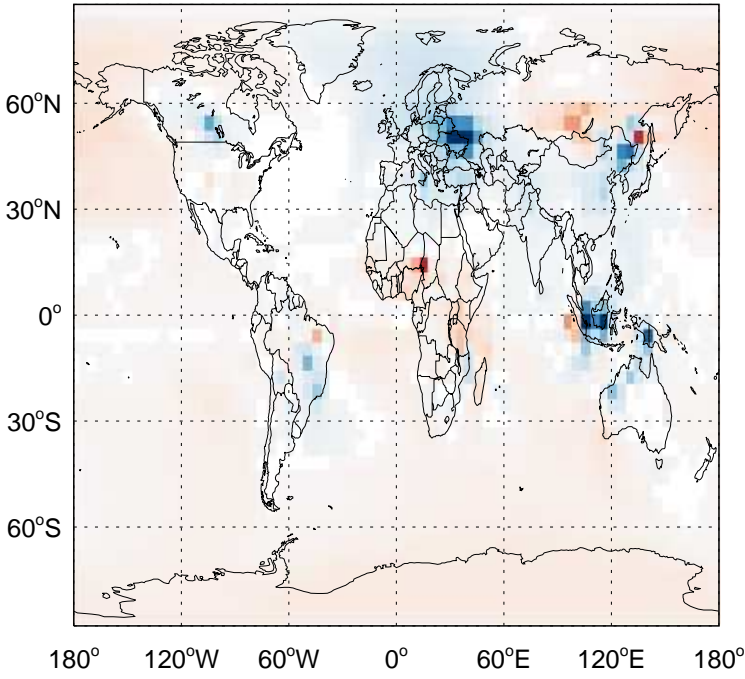


GC\_12.0.0 / v11-02e-Run1  
ACET/ Ratio @ 500 hPa for Oct

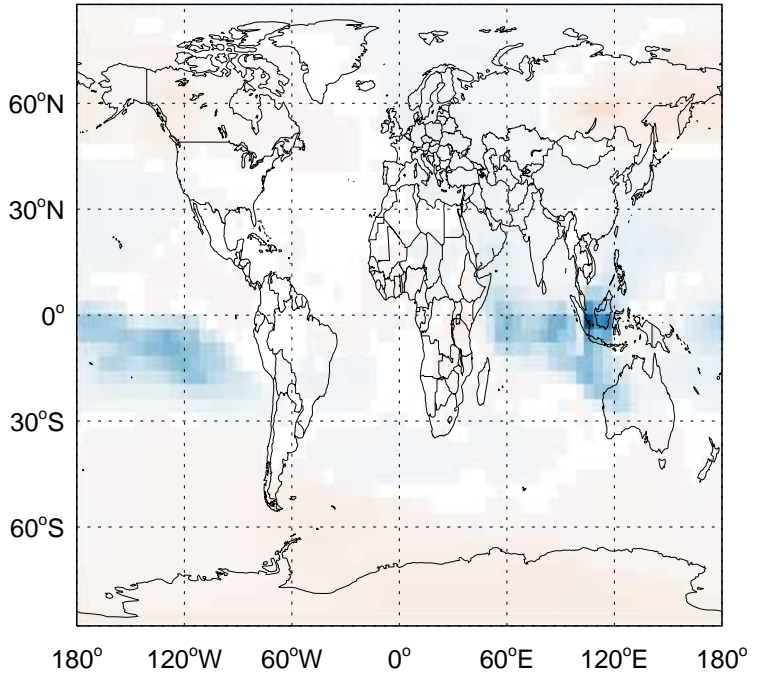


# GEOS-Chem Ratio Maps at surface and 500 hPa

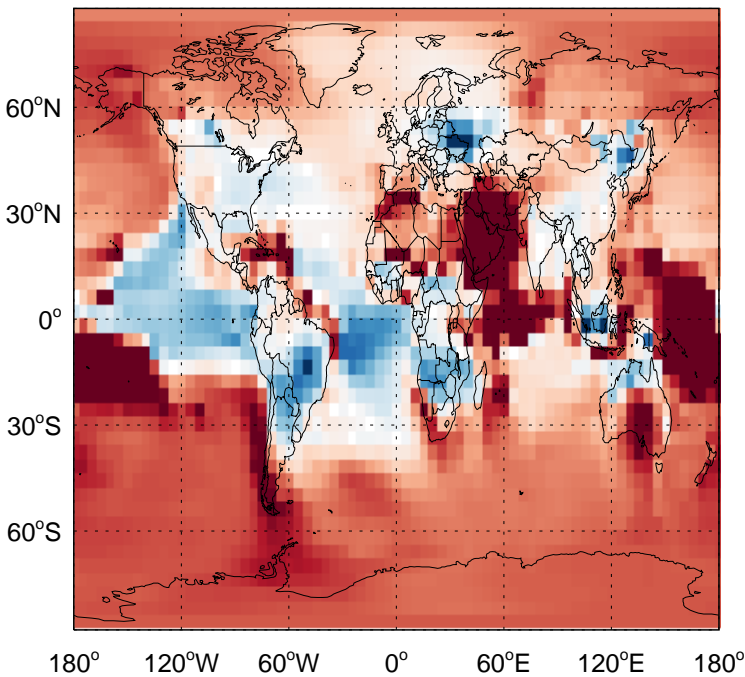
GC\_12.0.0 / v11-02f-Run1  
MEK / Ratio @ Surface for Oct



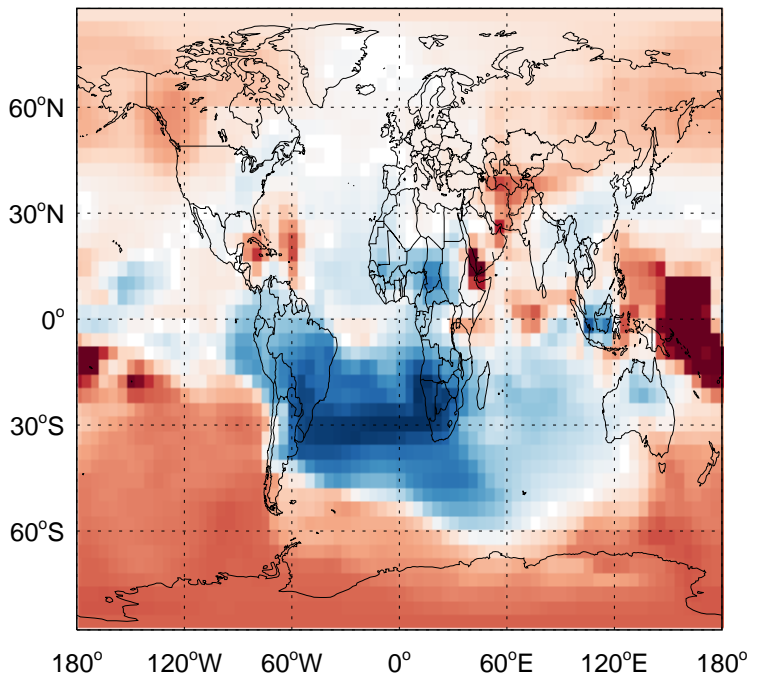
GC\_12.0.0 / v11-02f-Run1  
MEK / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MEK / Ratio @ Surface for Oct

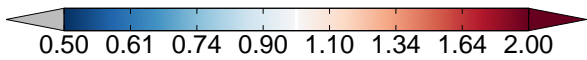
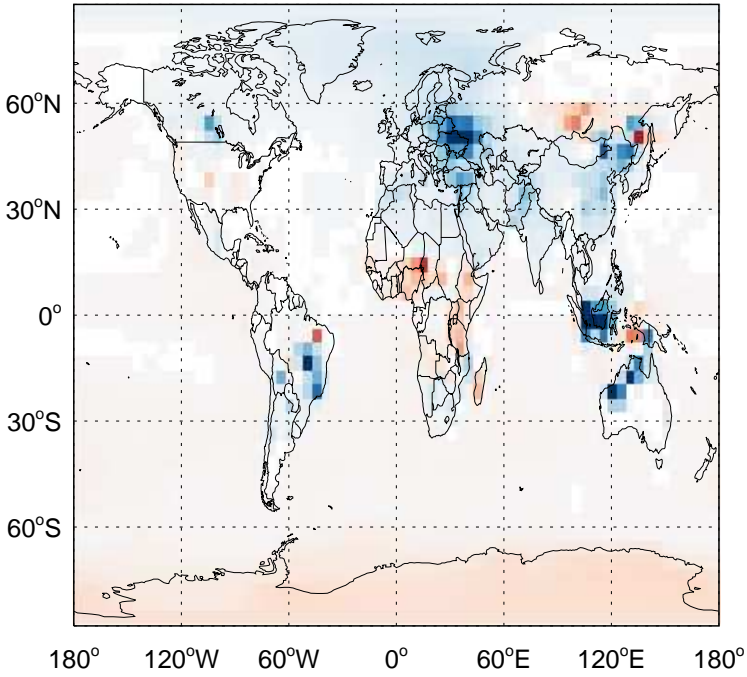


GC\_12.0.0 / v11-02e-Run1  
MEK / Ratio @ 500 hPa for Oct

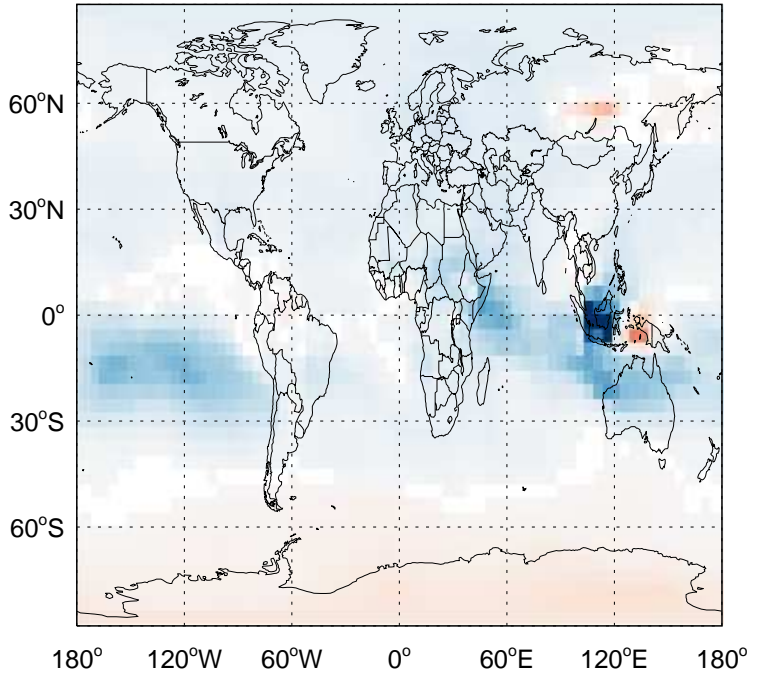


# GEOS-Chem Ratio Maps at surface and 500 hPa

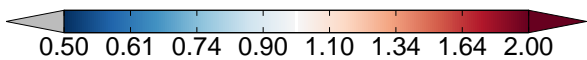
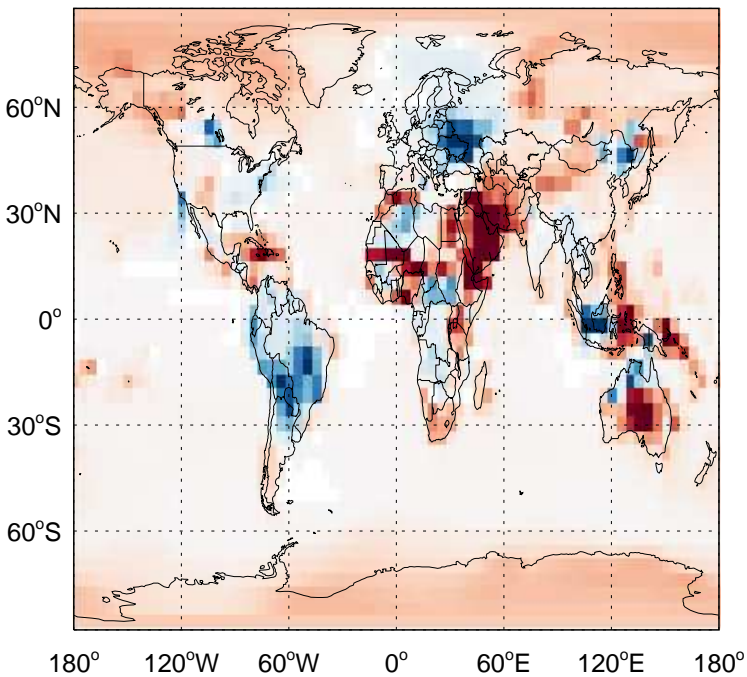
GC\_12.0.0 / v11-02f-Run1  
ALD2 / Ratio @ Surface for Oct



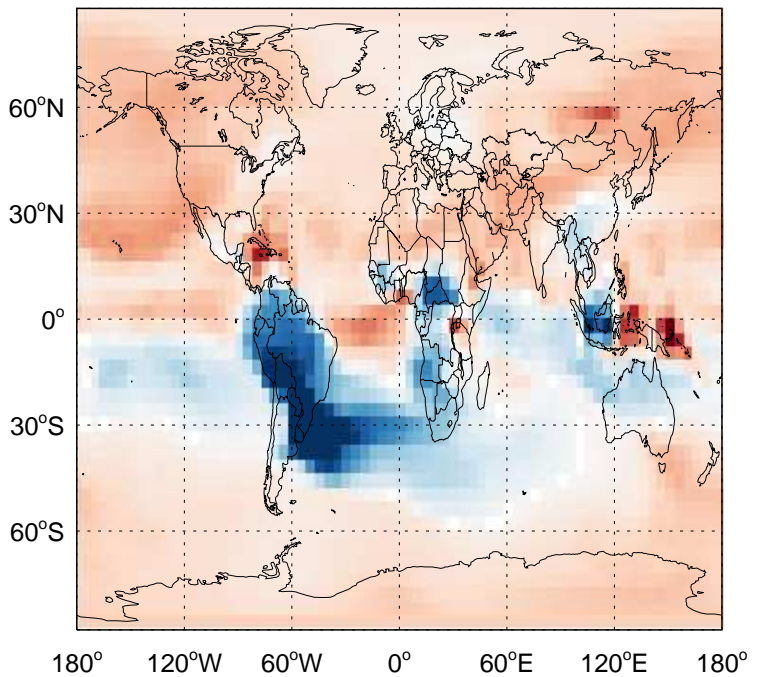
GC\_12.0.0 / v11-02f-Run1  
ALD2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ALD2 / Ratio @ Surface for Oct



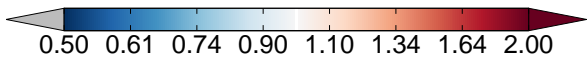
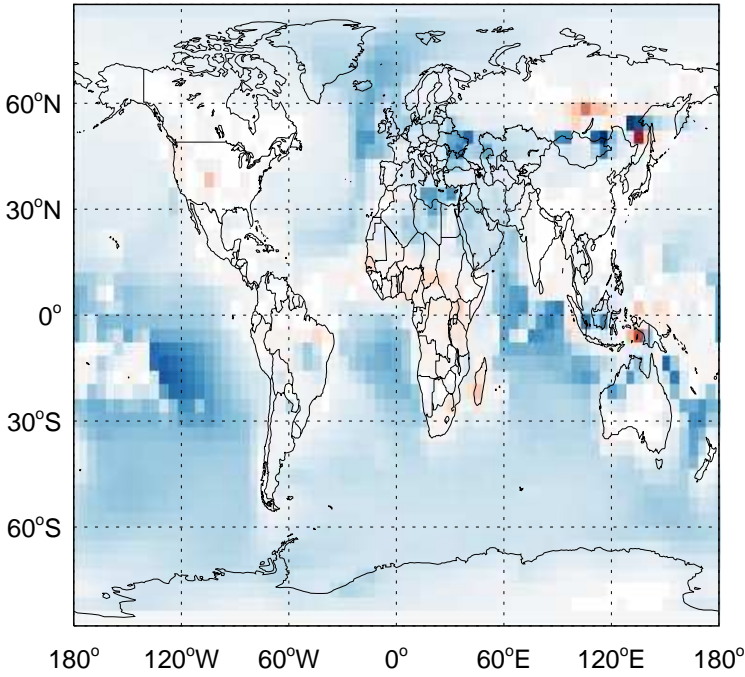
GC\_12.0.0 / v11-02e-Run1  
ALD2 / Ratio @ 500 hPa for Oct



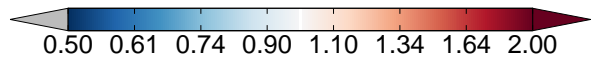
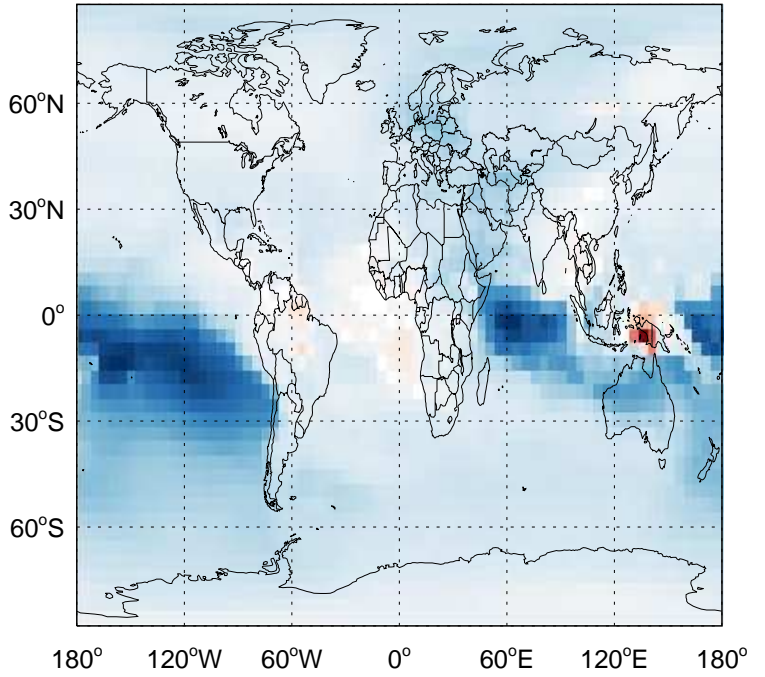


# GEOS-Chem Ratio Maps at surface and 500 hPa

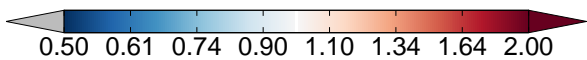
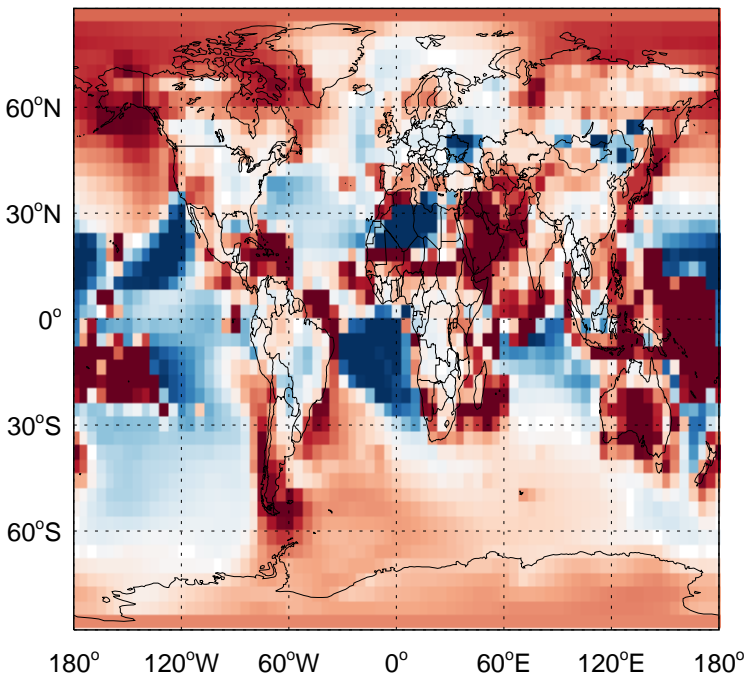
GC\_12.0.0 / v11-02f-Run1  
RCHO / Ratio @ Surface for Oct



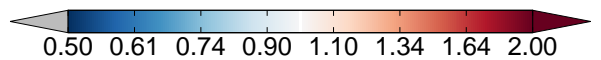
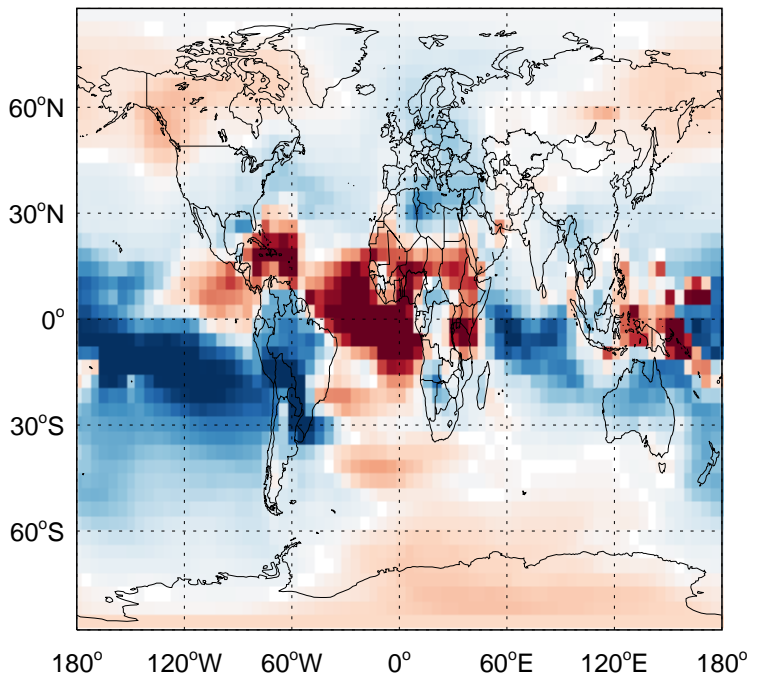
GC\_12.0.0 / v11-02f-Run1  
RCHO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
RCHO / Ratio @ Surface for Oct

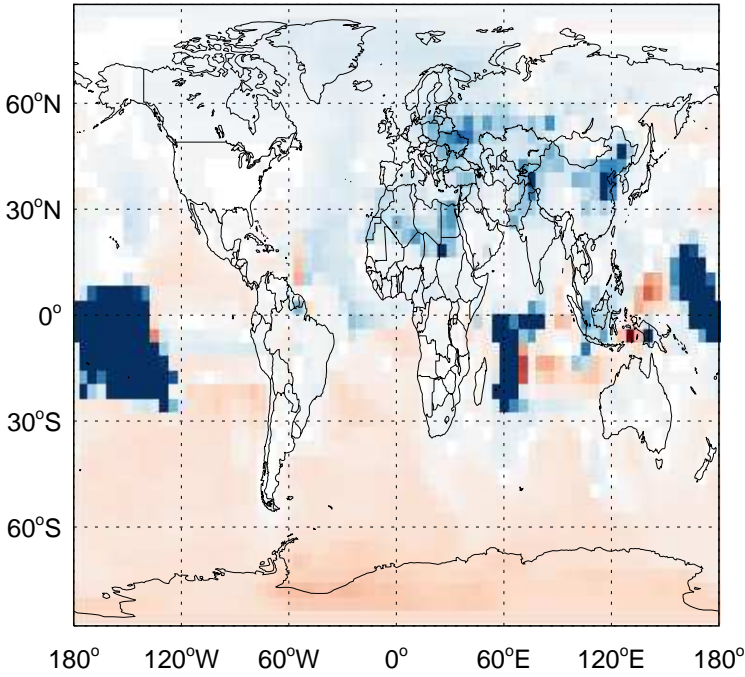


GC\_12.0.0 / v11-02e-Run1  
RCHO/ Ratio @ 500 hPa for Oct

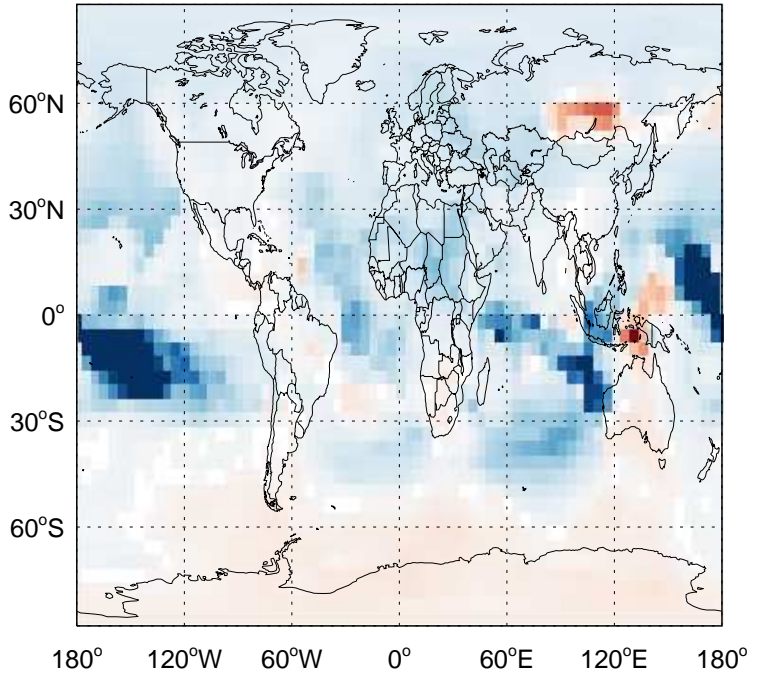


# GEOS-Chem Ratio Maps at surface and 500 hPa

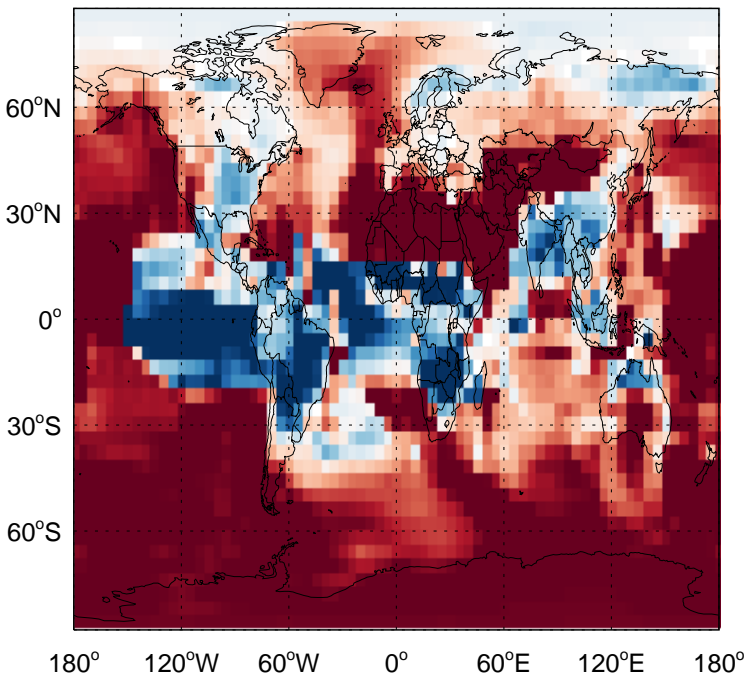
GC\_12.0.0 / v11-02f-Run1  
MVK / Ratio @ Surface for Oct



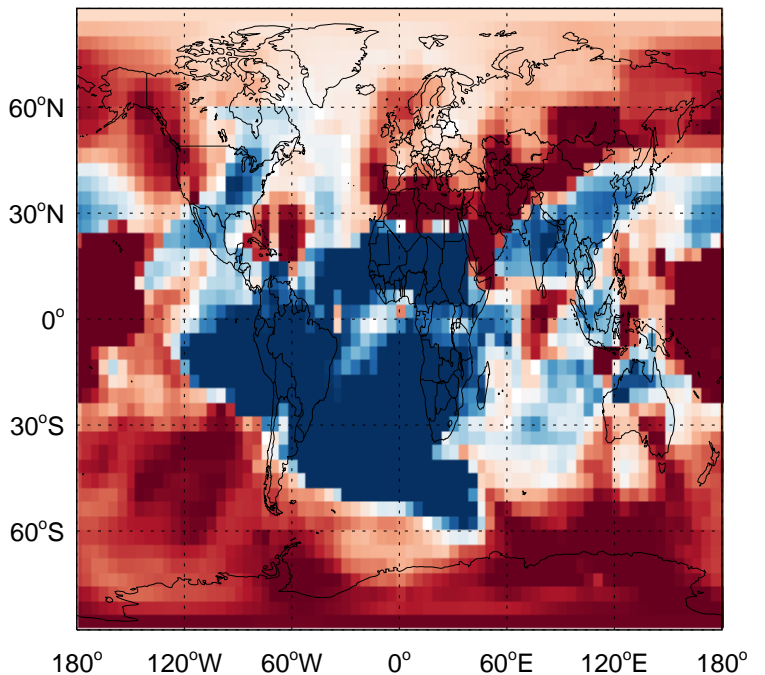
GC\_12.0.0 / v11-02f-Run1  
MVK/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MVK / Ratio @ Surface for Oct

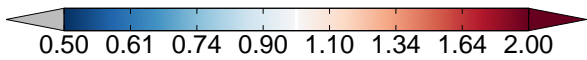
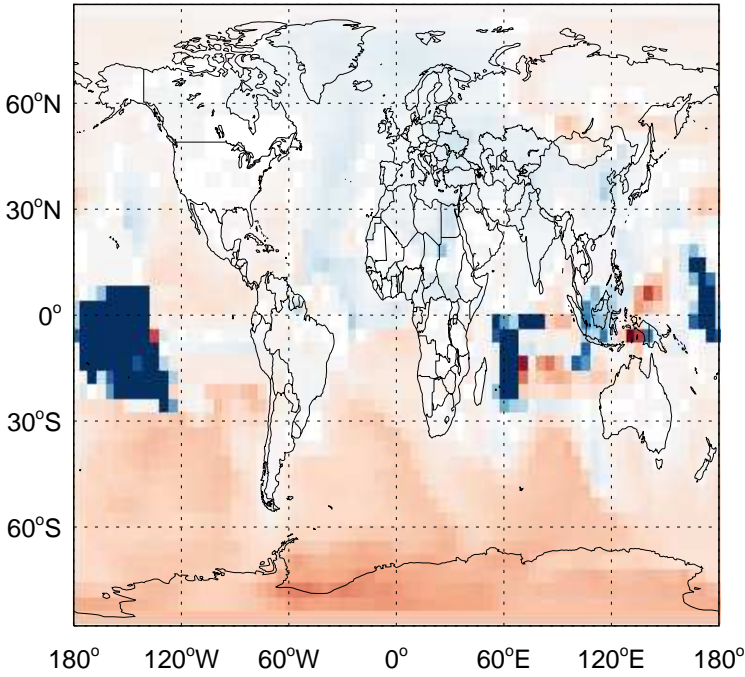


GC\_12.0.0 / v11-02e-Run1  
MVK/ Ratio @ 500 hPa for Oct

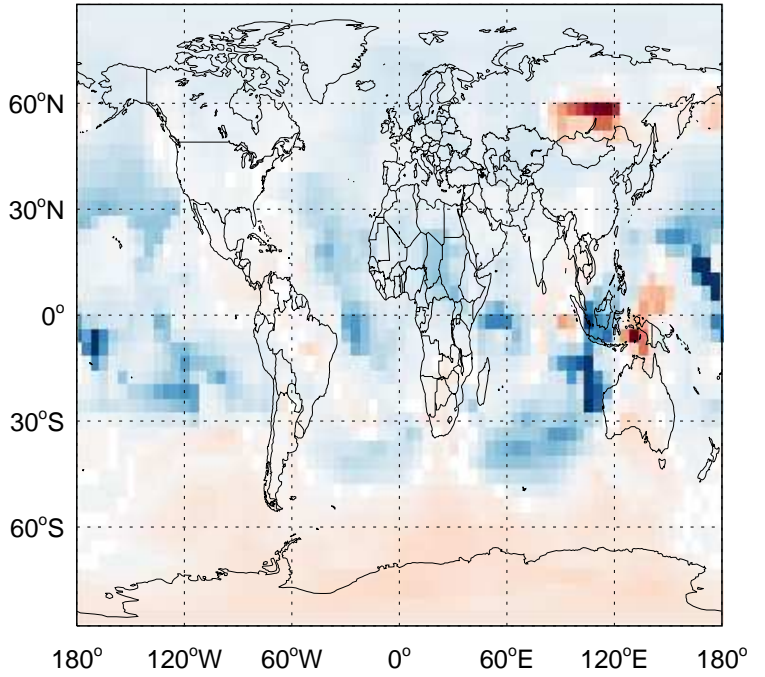


# GEOS-Chem Ratio Maps at surface and 500 hPa

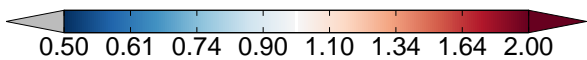
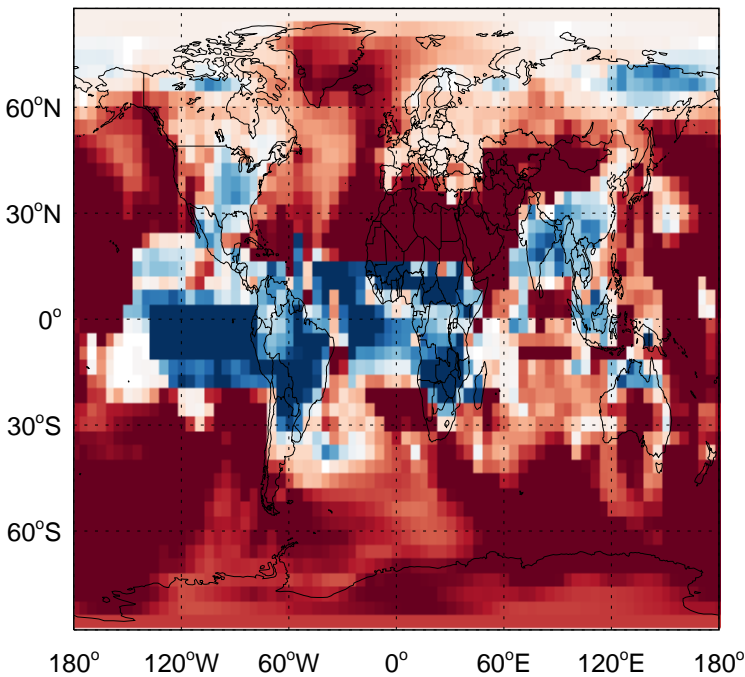
GC\_12.0.0 / v11-02f-Run1  
MACR / Ratio @ Surface for Oct



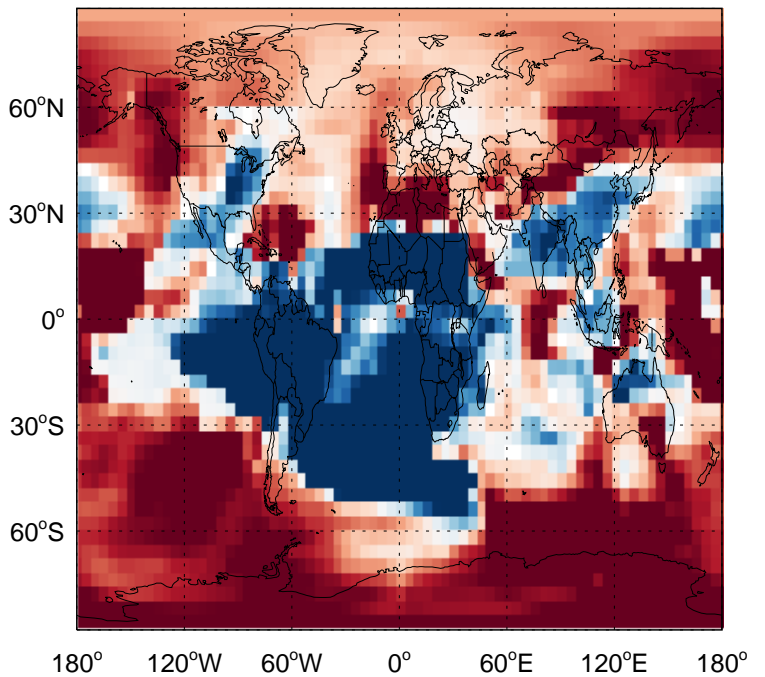
GC\_12.0.0 / v11-02f-Run1  
MACR/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MACR / Ratio @ Surface for Oct



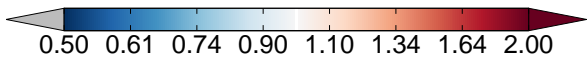
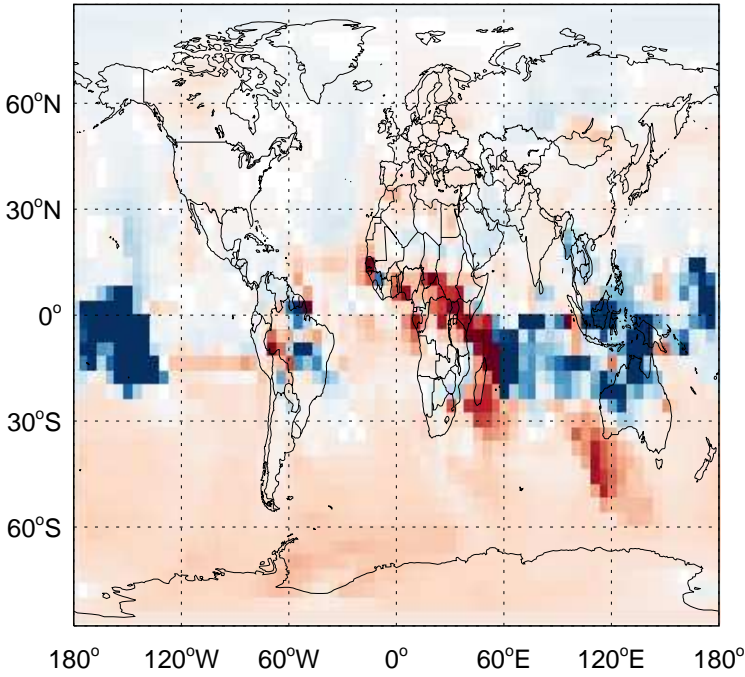
GC\_12.0.0 / v11-02e-Run1  
MACR/ Ratio @ 500 hPa for Oct



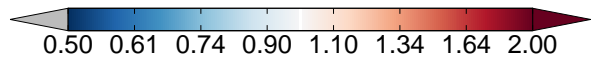
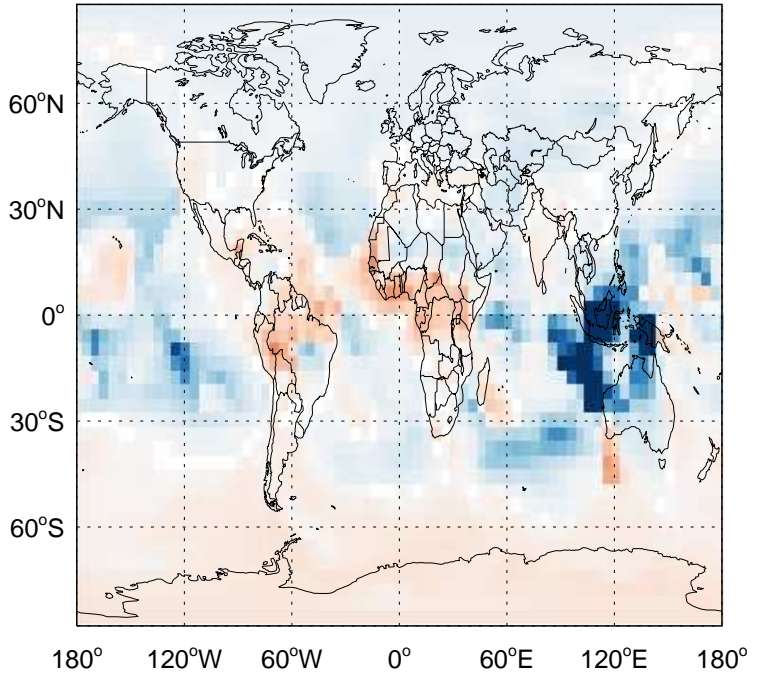


# GEOS-Chem Ratio Maps at surface and 500 hPa

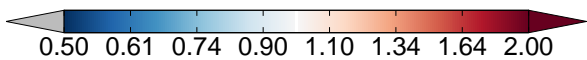
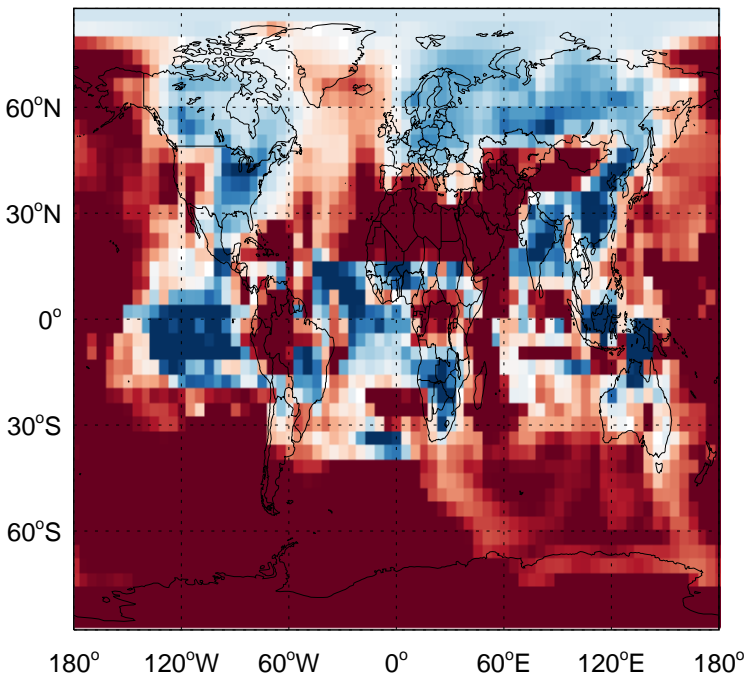
GC\_12.0.0 / v11-02f-Run1  
NPMN / Ratio @ Surface for Oct



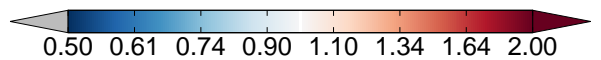
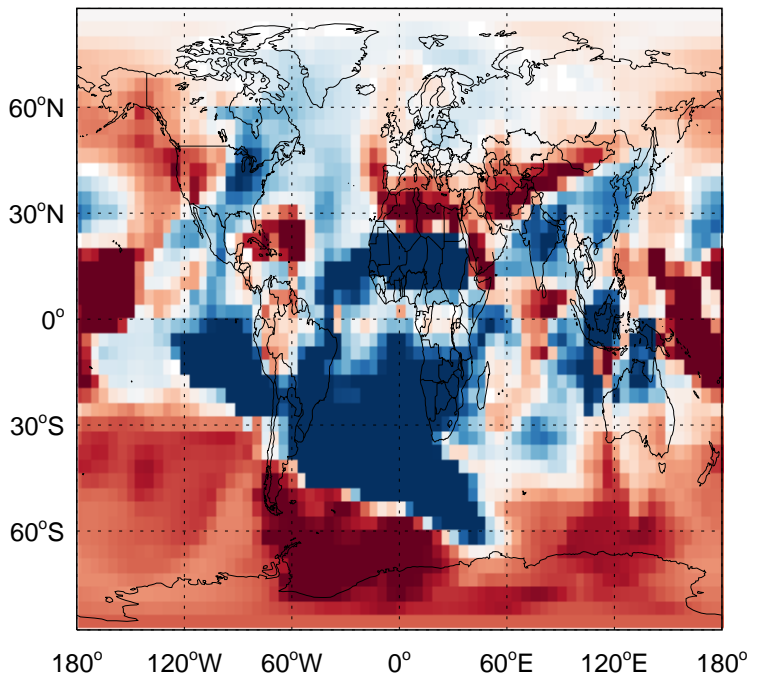
GC\_12.0.0 / v11-02f-Run1  
NPMN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NPMN / Ratio @ Surface for Oct

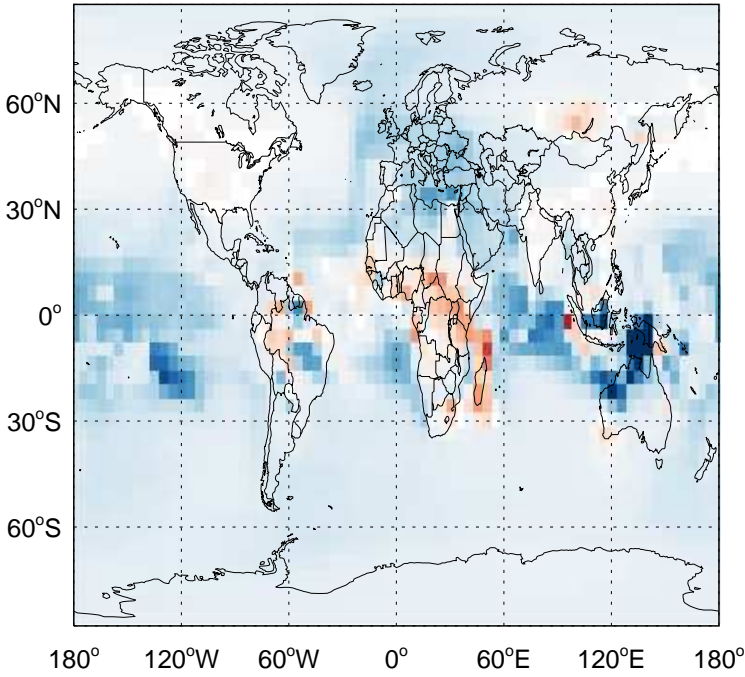


GC\_12.0.0 / v11-02e-Run1  
NPMN/ Ratio @ 500 hPa for Oct

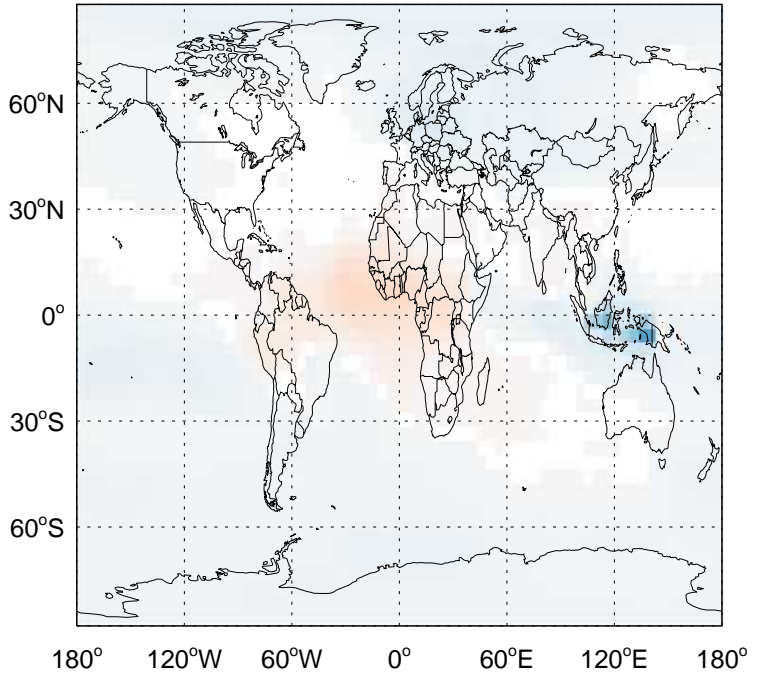


# GEOS-Chem Ratio Maps at surface and 500 hPa

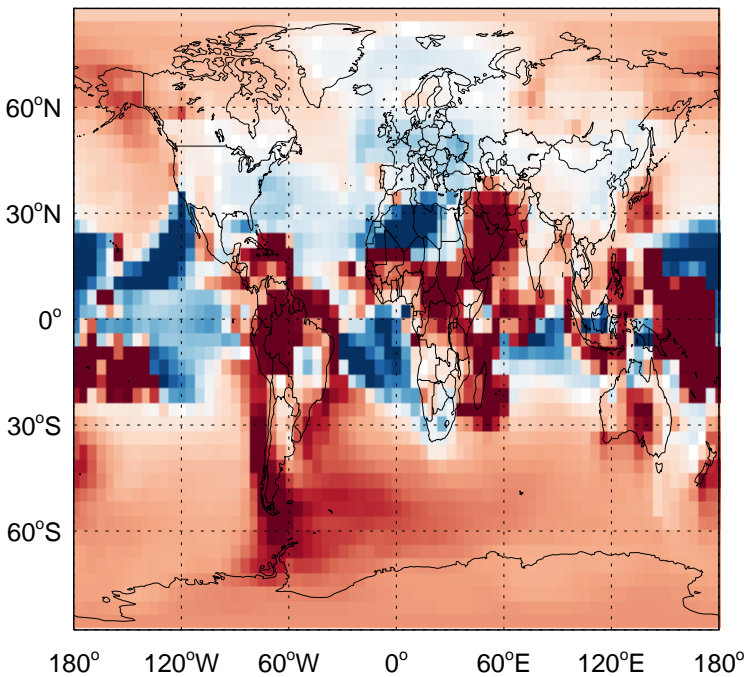
GC\_12.0.0 / v11-02f-Run1  
PPN / Ratio @ Surface for Oct



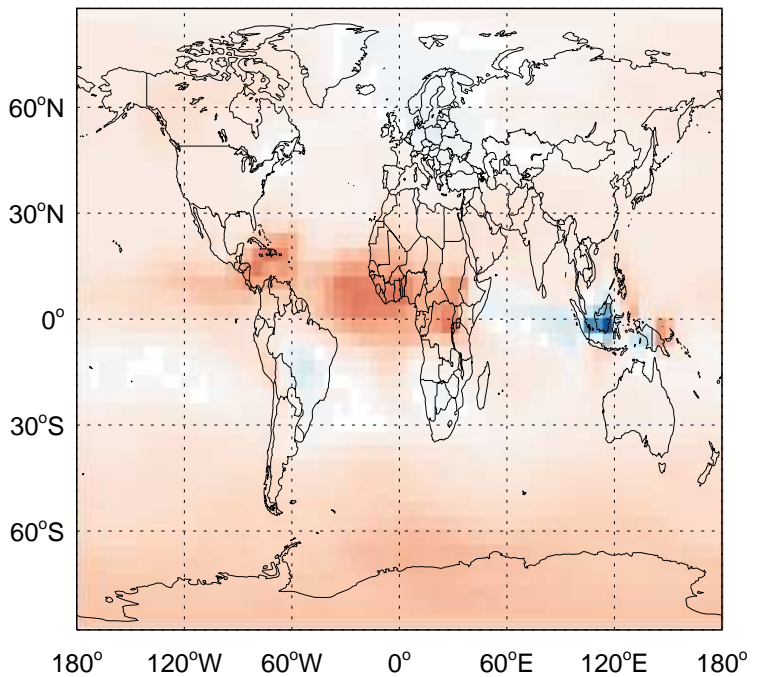
GC\_12.0.0 / v11-02f-Run1  
PPN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
PPN / Ratio @ Surface for Oct

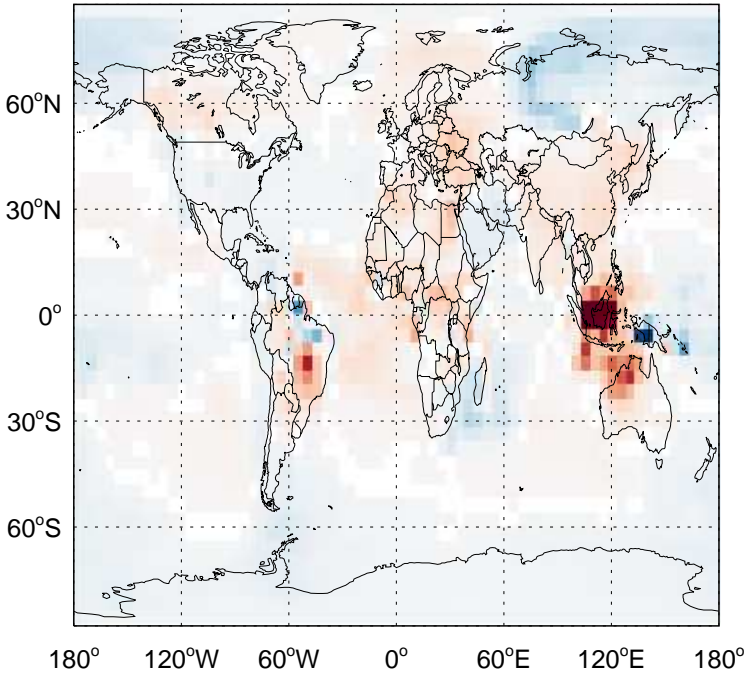


GC\_12.0.0 / v11-02e-Run1  
PPN/ Ratio @ 500 hPa for Oct

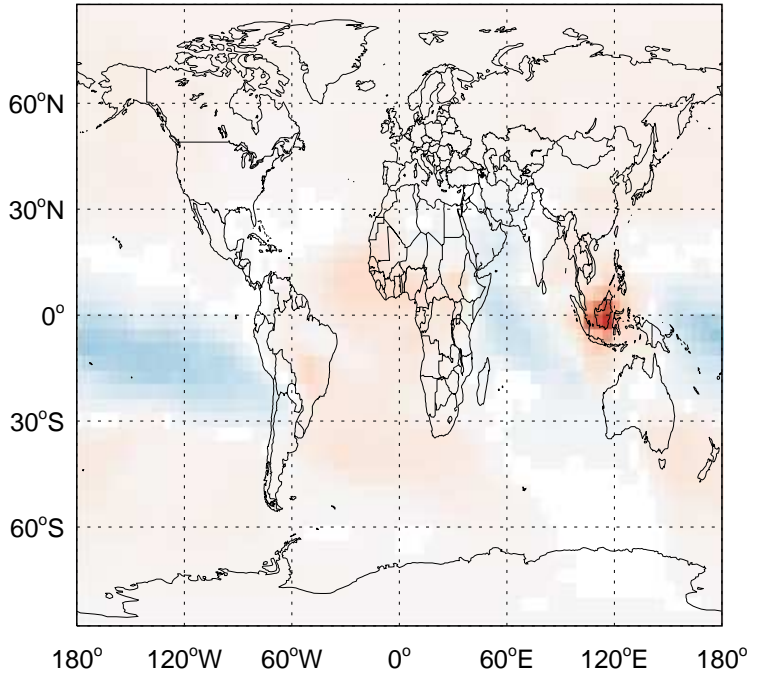


# GEOS-Chem Ratio Maps at surface and 500 hPa

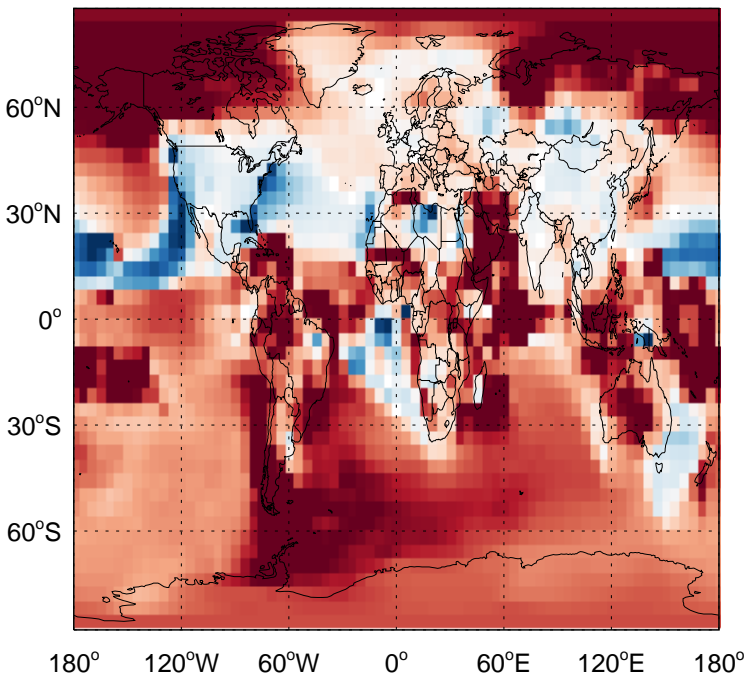
GC\_12.0.0 / v11-02f-Run1  
R4N2 / Ratio @ Surface for Oct



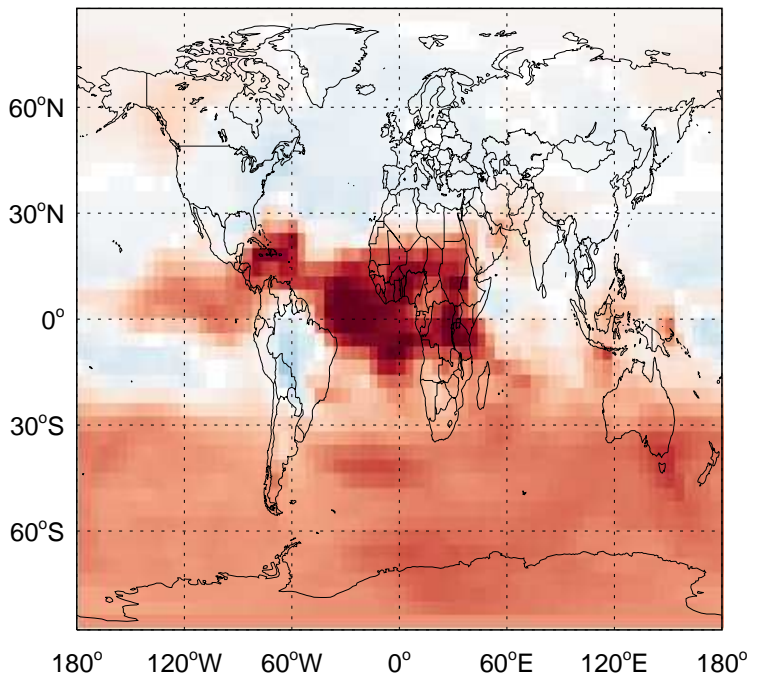
GC\_12.0.0 / v11-02f-Run1  
R4N2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
R4N2 / Ratio @ Surface for Oct



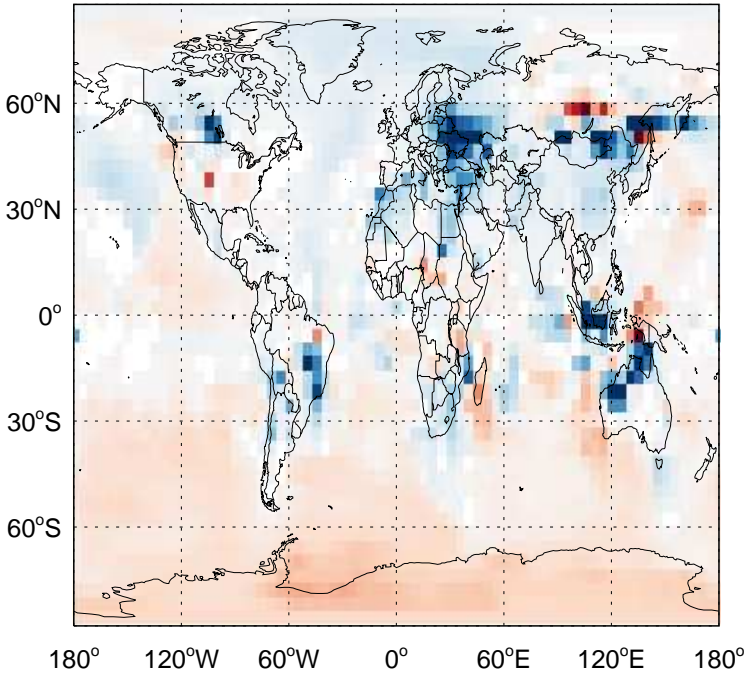
GC\_12.0.0 / v11-02e-Run1  
R4N2/ Ratio @ 500 hPa for Oct



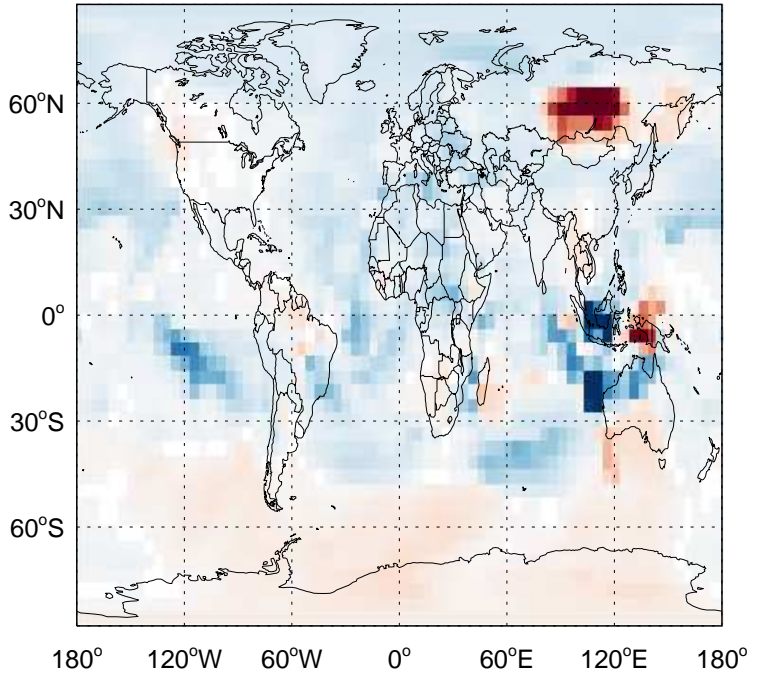


# GEOS-Chem Ratio Maps at surface and 500 hPa

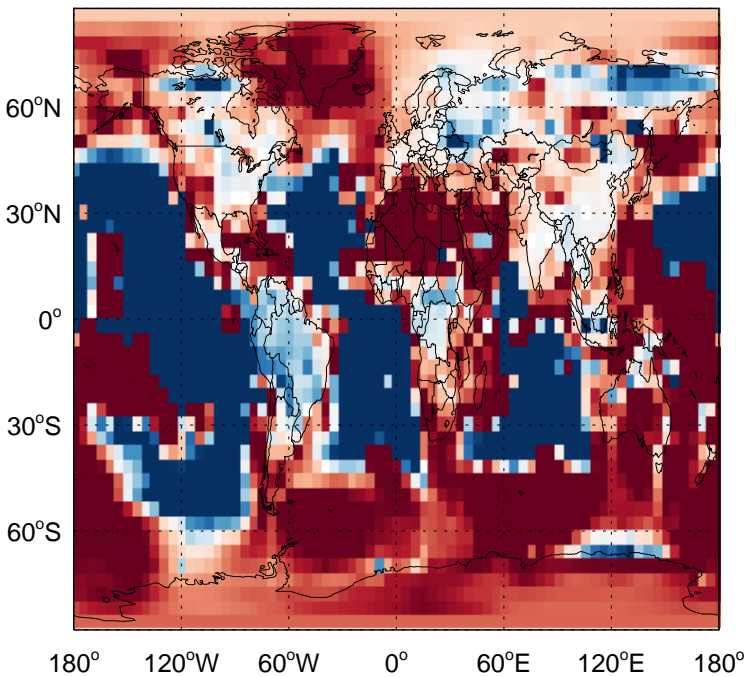
GC\_12.0.0 / v11-02f-Run1  
PRPE / Ratio @ Surface for Oct



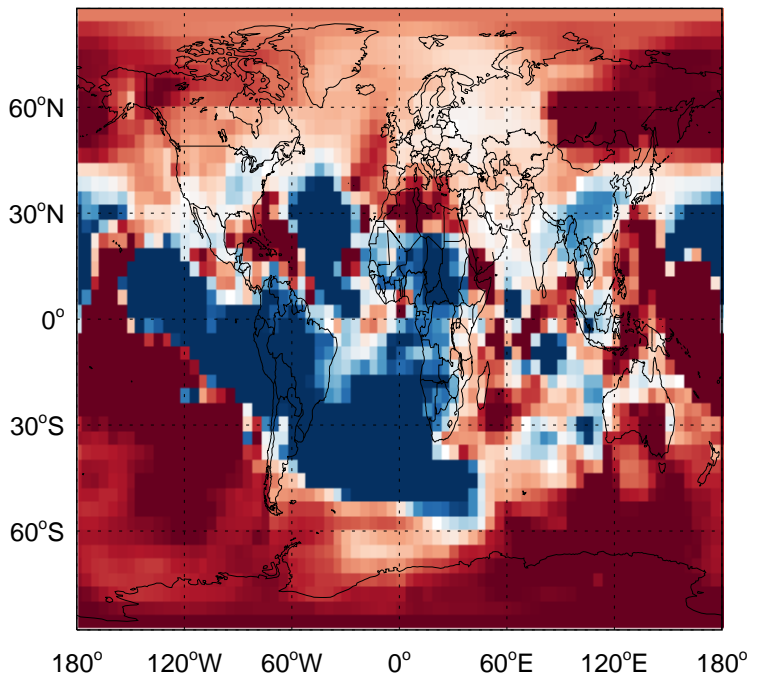
GC\_12.0.0 / v11-02f-Run1  
PRPE/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
PRPE / Ratio @ Surface for Oct

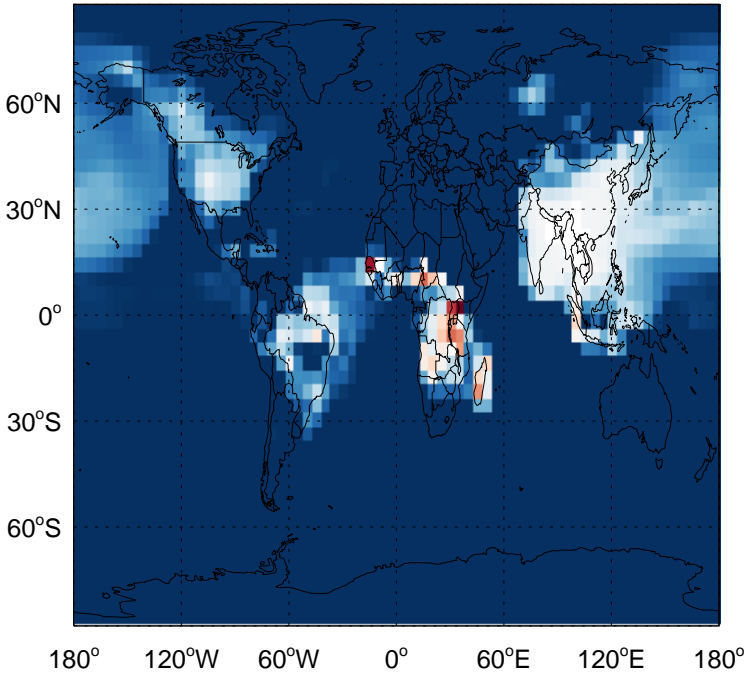


GC\_12.0.0 / v11-02e-Run1  
PRPE/ Ratio @ 500 hPa for Oct

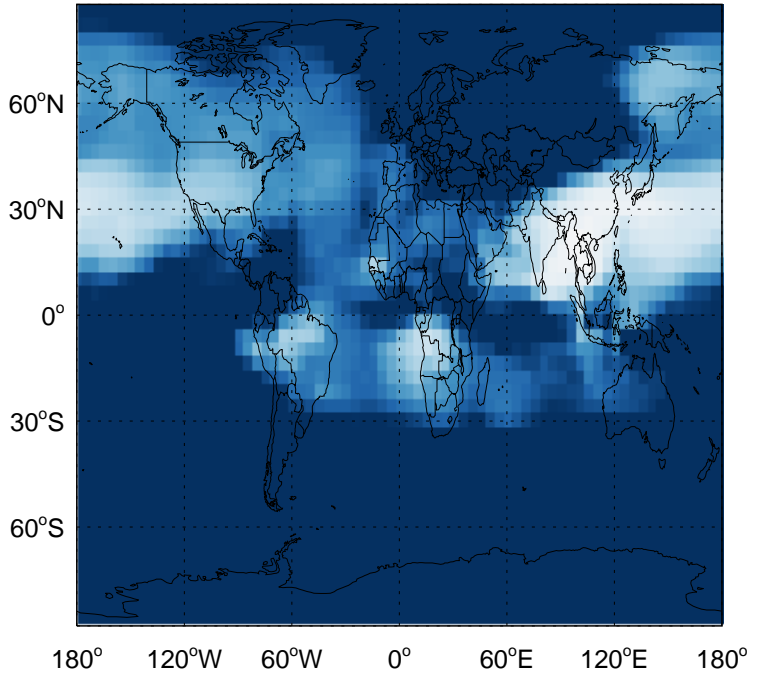


# GEOS-Chem Ratio Maps at surface and 500 hPa

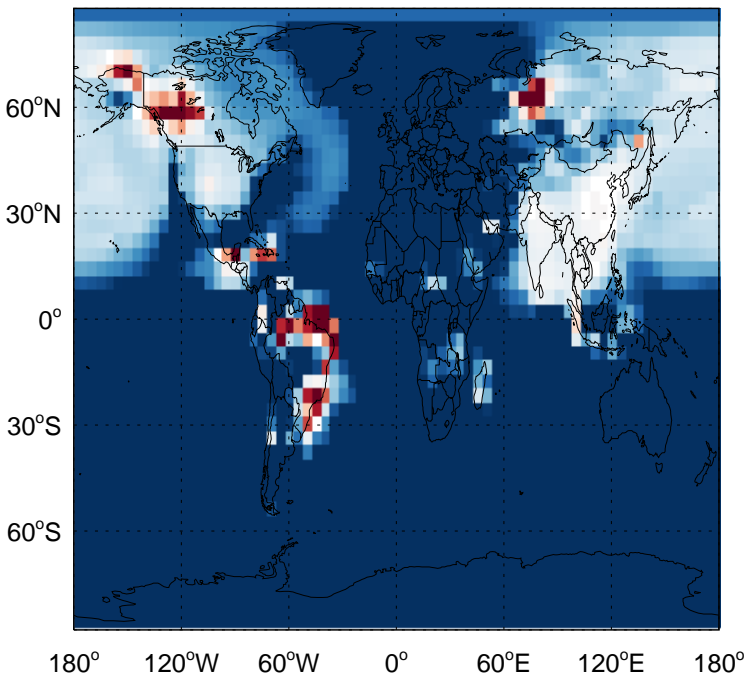
GC\_12.0.0 / v11-02f-Run1  
C3H8 / Ratio @ Surface for Oct



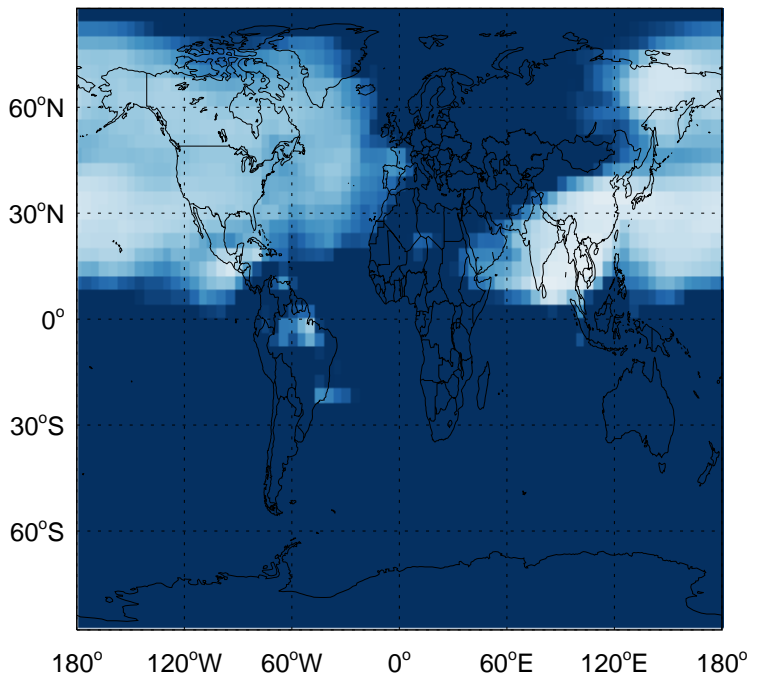
GC\_12.0.0 / v11-02f-Run1  
C3H8/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
C3H8 / Ratio @ Surface for Oct

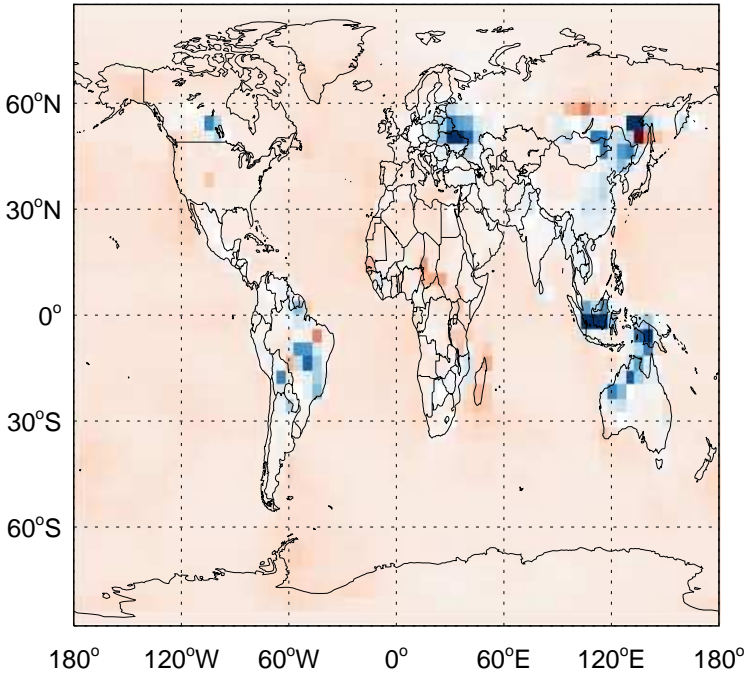


GC\_12.0.0 / v11-02e-Run1  
C3H8/ Ratio @ 500 hPa for Oct

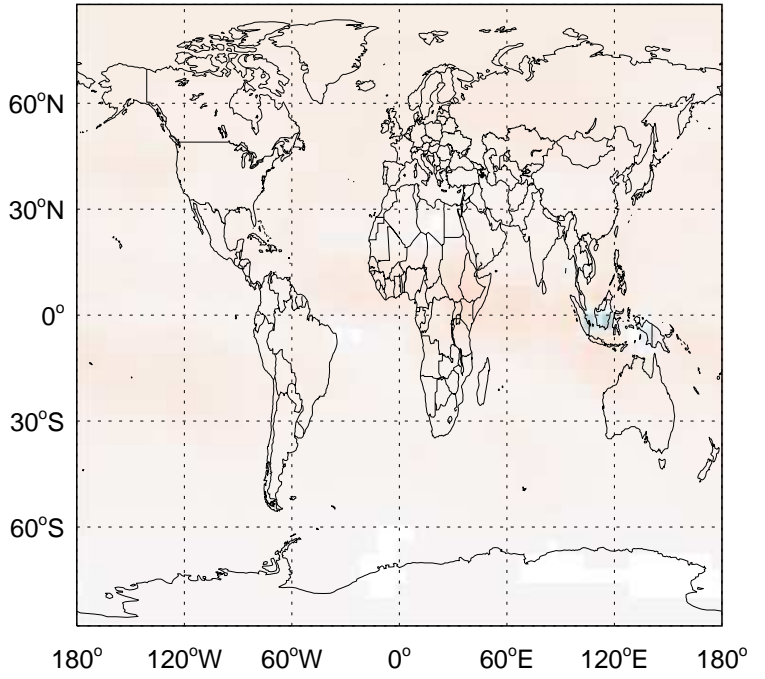


# GEOS-Chem Ratio Maps at surface and 500 hPa

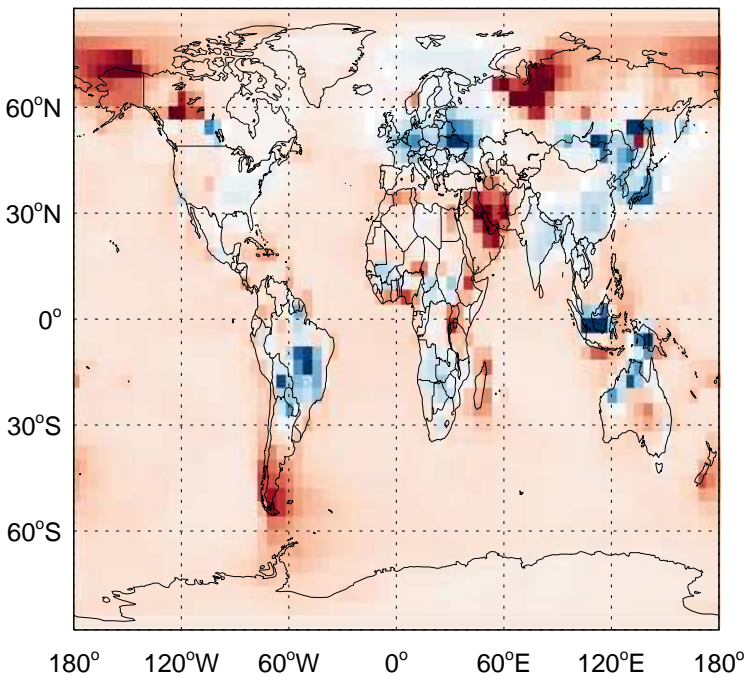
GC\_12.0.0 / v11-02f-Run1  
CH2O / Ratio @ Surface for Oct



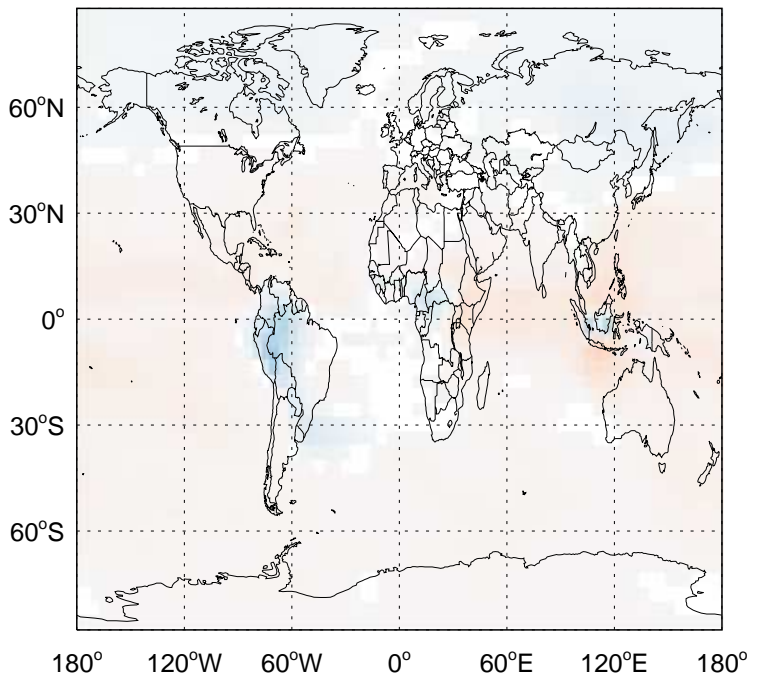
GC\_12.0.0 / v11-02f-Run1  
CH2O/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH2O / Ratio @ Surface for Oct



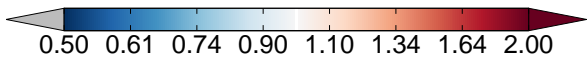
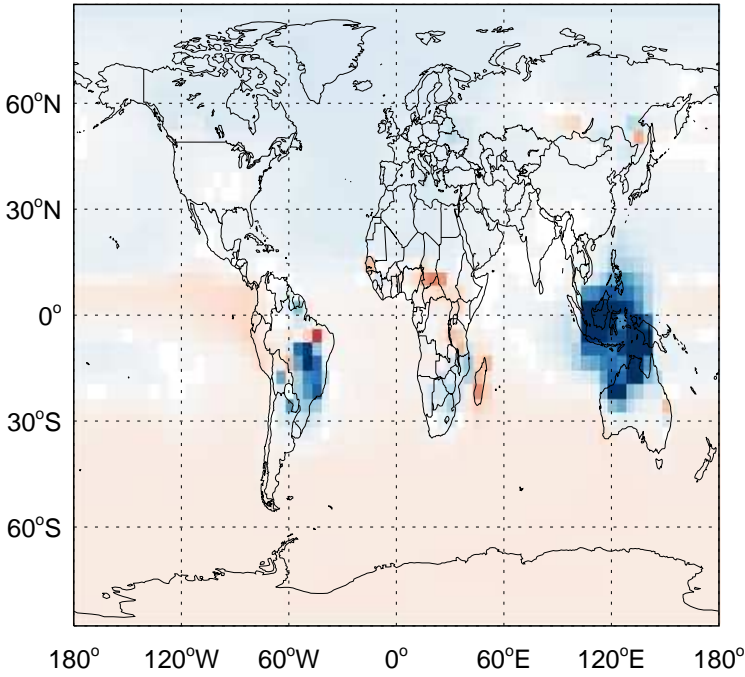
GC\_12.0.0 / v11-02e-Run1  
CH2O/ Ratio @ 500 hPa for Oct



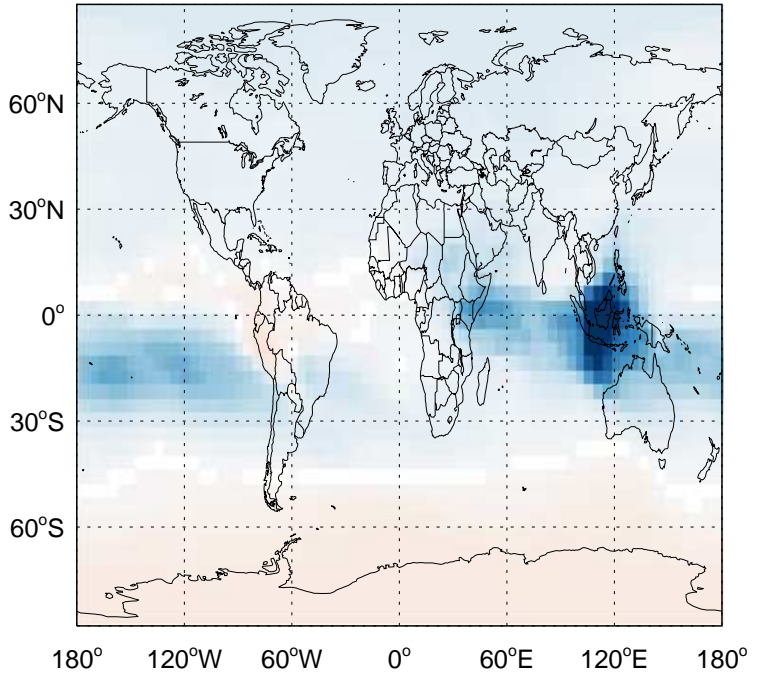


# GEOS-Chem Ratio Maps at surface and 500 hPa

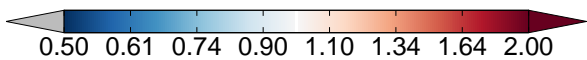
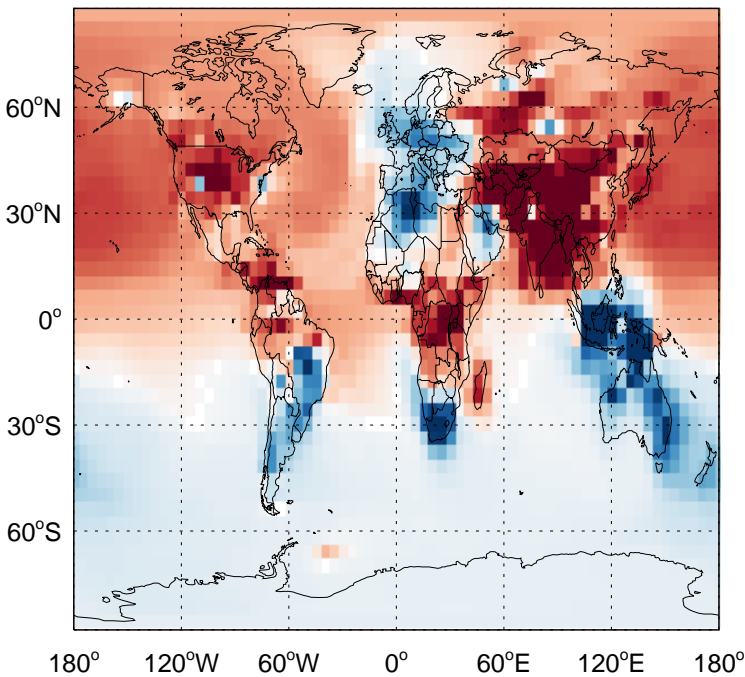
GC\_12.0.0 / v11-02f-Run1  
C2H6 / Ratio @ Surface for Oct



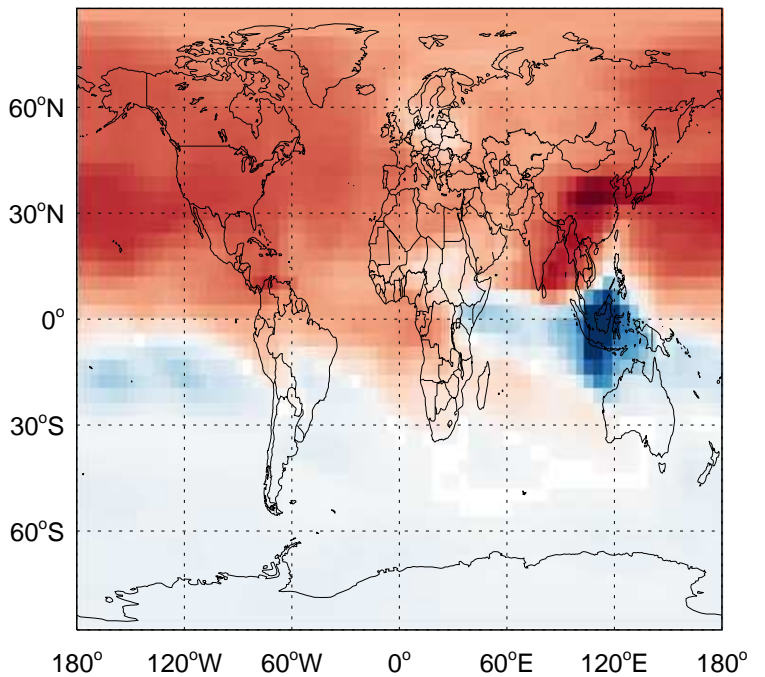
GC\_12.0.0 / v11-02f-Run1  
C2H6/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
C2H6 / Ratio @ Surface for Oct

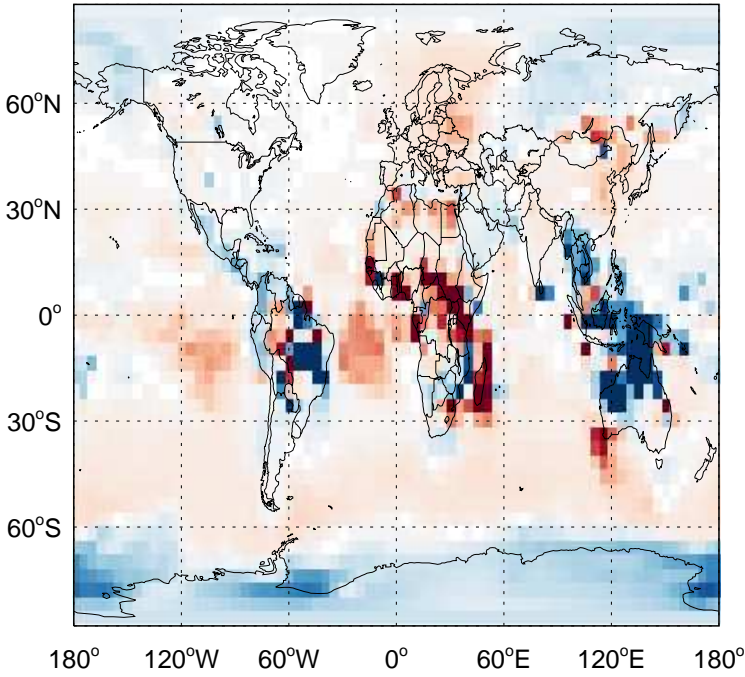


GC\_12.0.0 / v11-02e-Run1  
C2H6/ Ratio @ 500 hPa for Oct

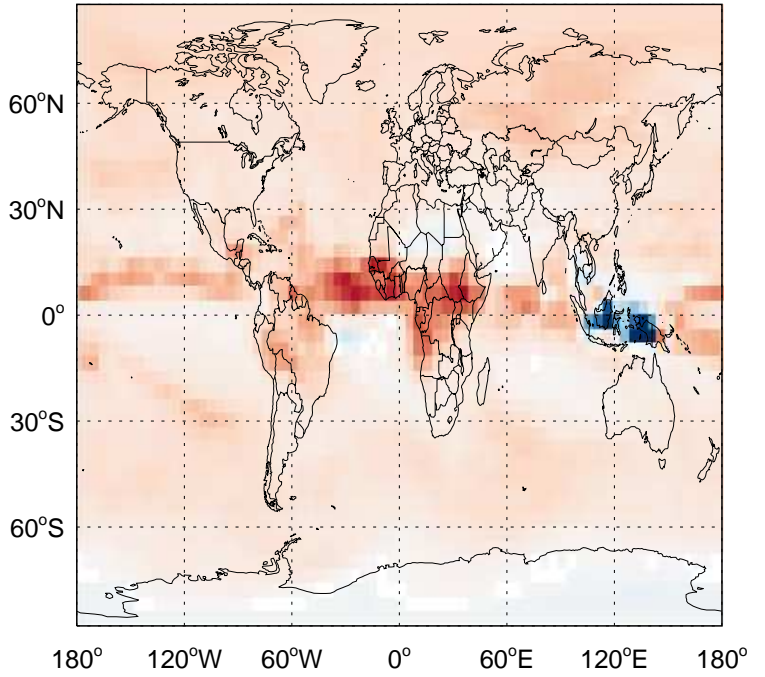


# GEOS-Chem Ratio Maps at surface and 500 hPa

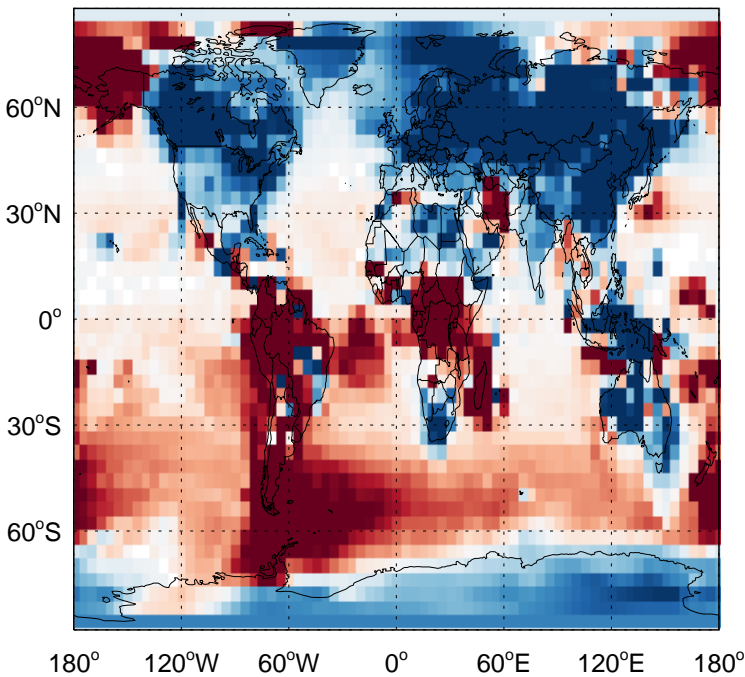
GC\_12.0.0 / v11-02f-Run1  
N2O5 / Ratio @ Surface for Oct



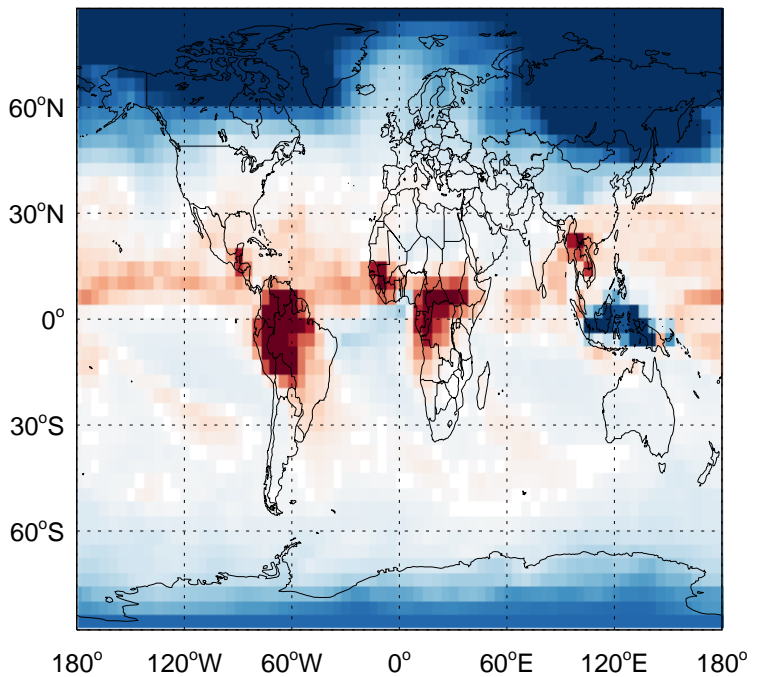
GC\_12.0.0 / v11-02f-Run1  
N2O5/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
N2O5 / Ratio @ Surface for Oct

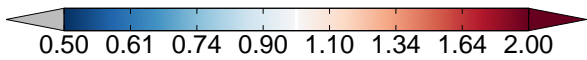
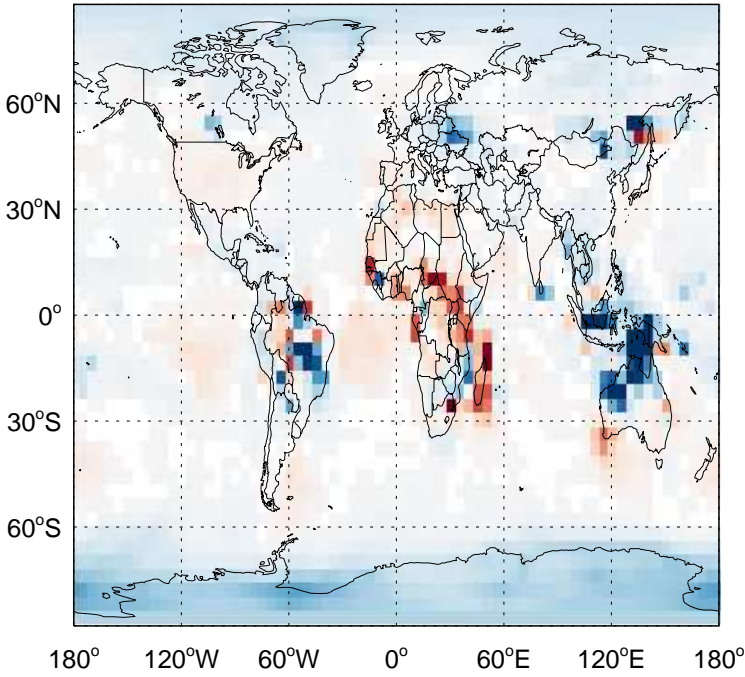


GC\_12.0.0 / v11-02e-Run1  
N2O5/ Ratio @ 500 hPa for Oct

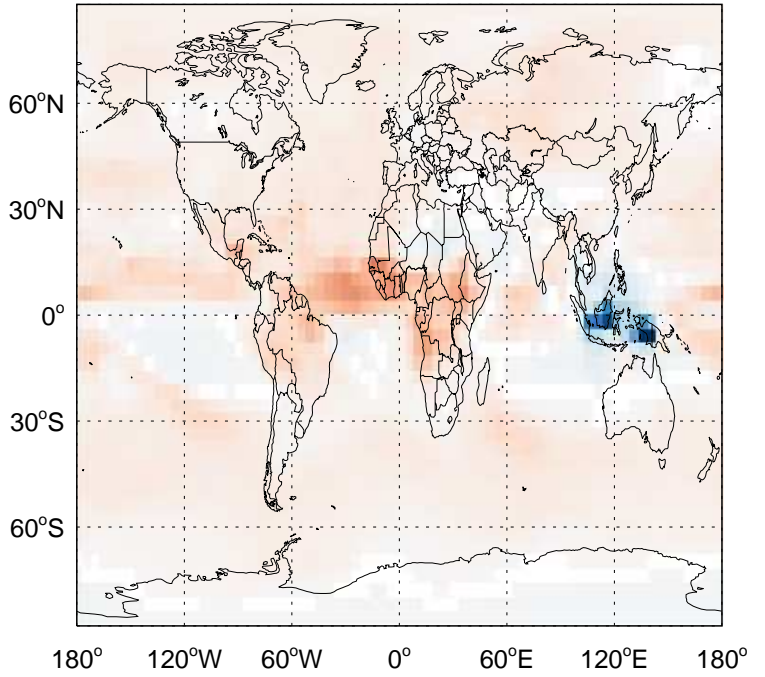


# GEOS-Chem Ratio Maps at surface and 500 hPa

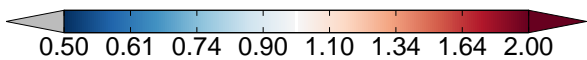
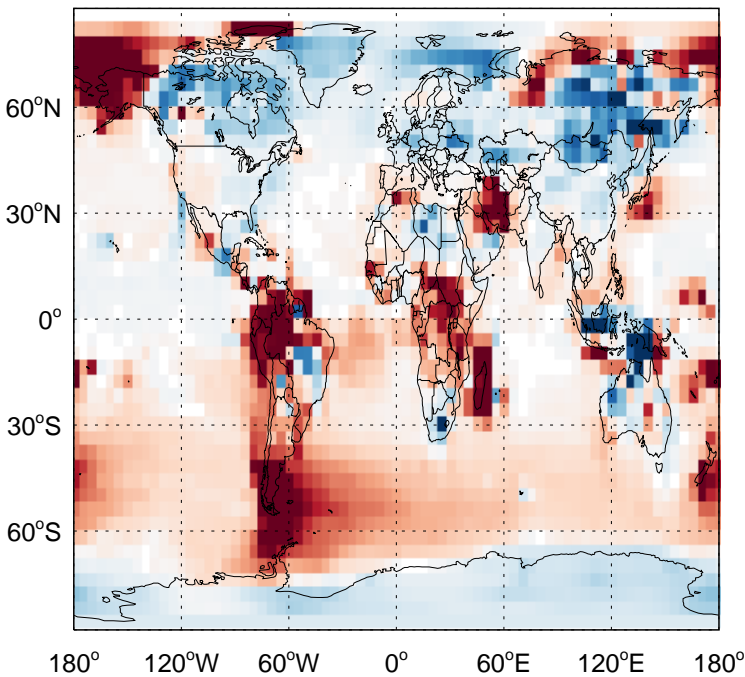
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>4</sub> / Ratio @ Surface for Oct



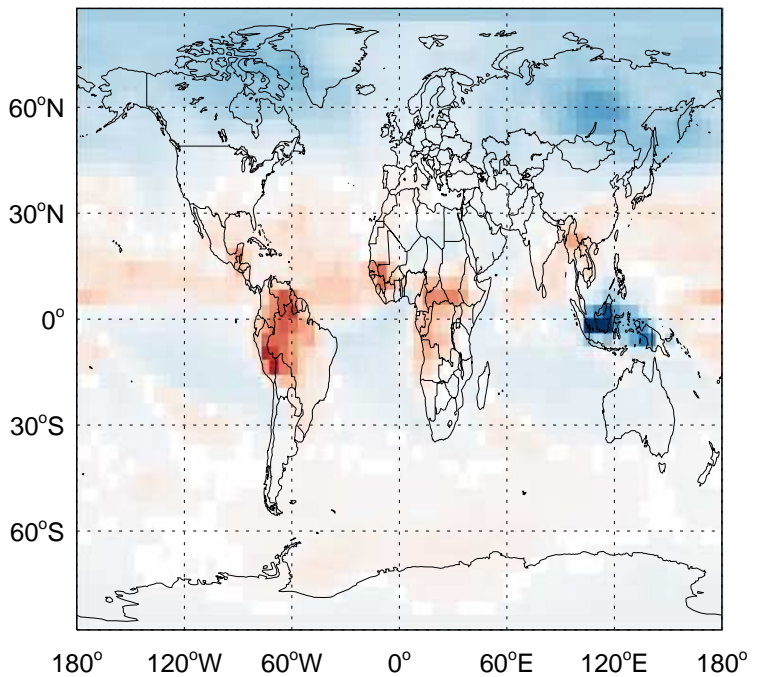
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>4</sub> / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HNO<sub>4</sub> / Ratio @ Surface for Oct



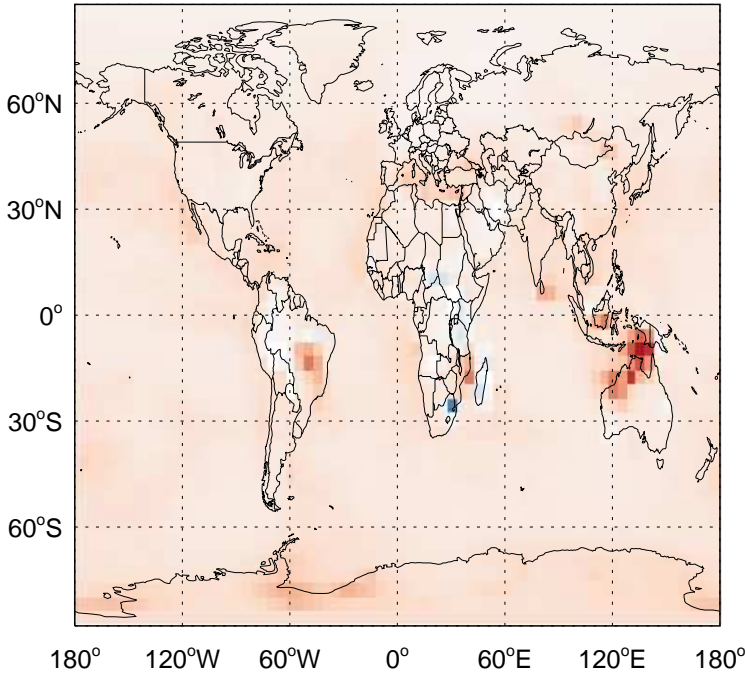
GC\_12.0.0 / v11-02e-Run1  
HNO<sub>4</sub> / Ratio @ 500 hPa for Oct



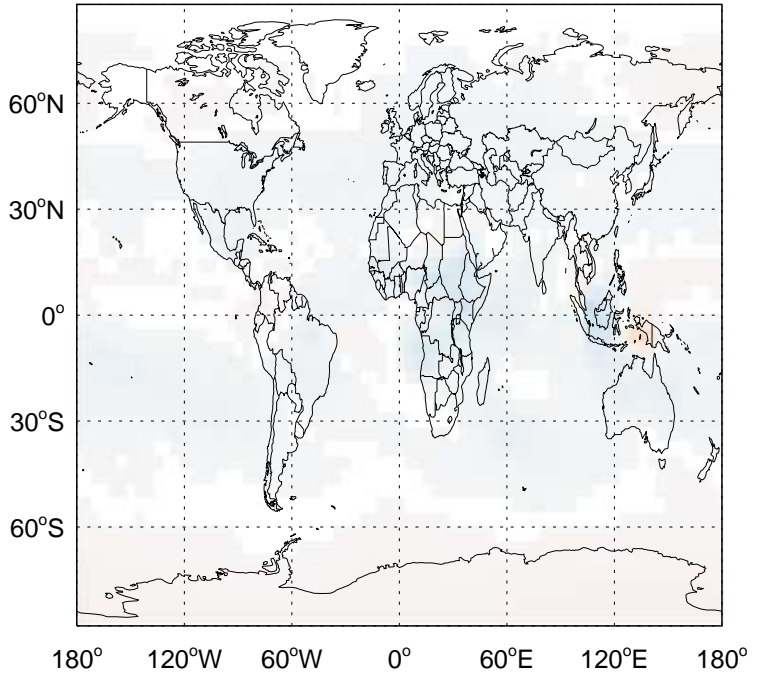


# GEOS-Chem Ratio Maps at surface and 500 hPa

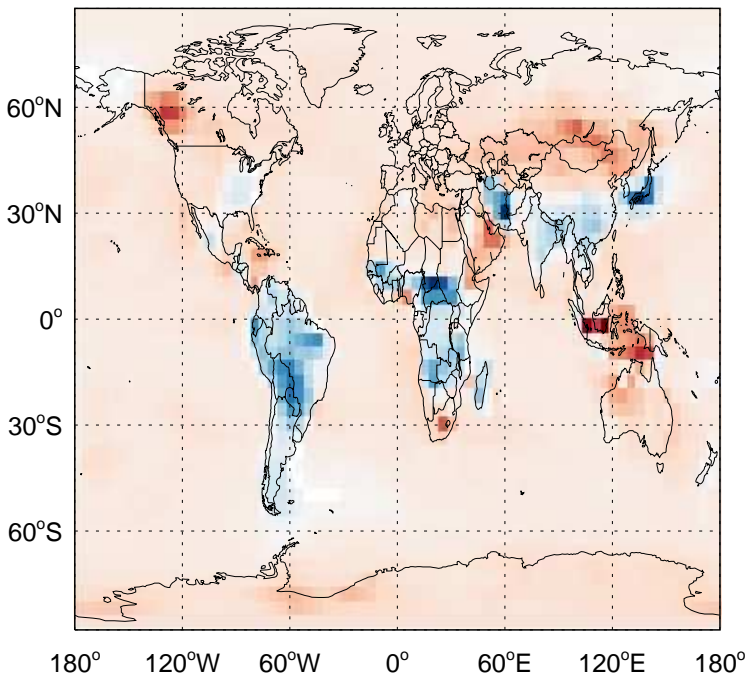
GC\_12.0.0 / v11-02f-Run1  
MP / Ratio @ Surface for Oct



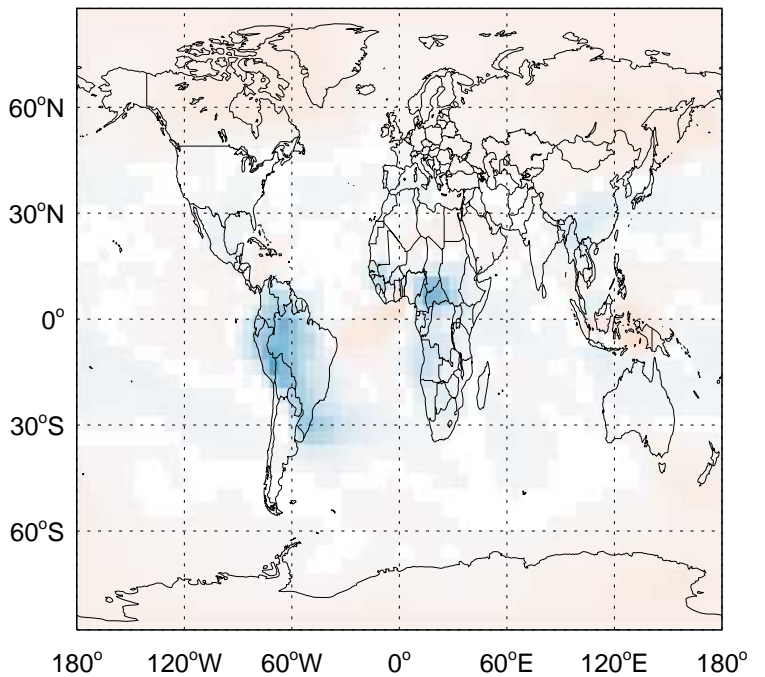
GC\_12.0.0 / v11-02f-Run1  
MP/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MP / Ratio @ Surface for Oct

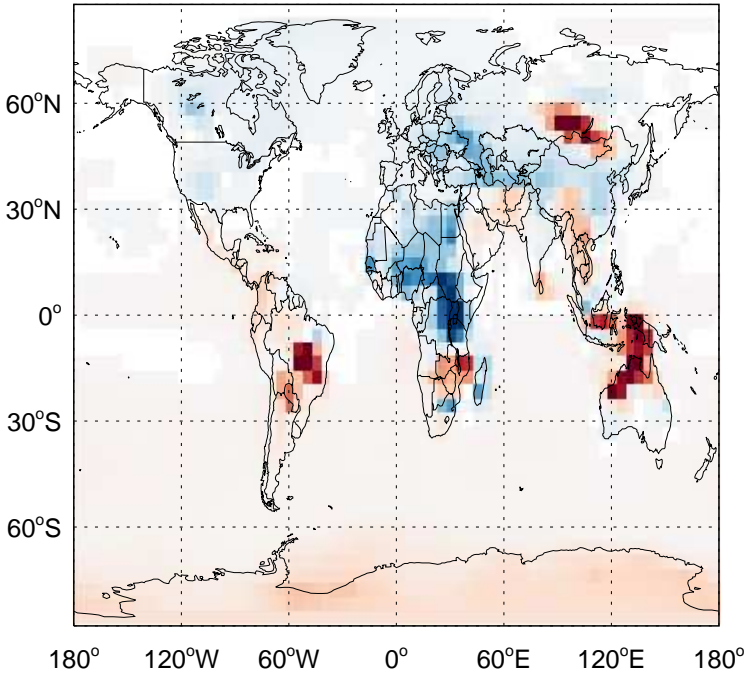


GC\_12.0.0 / v11-02e-Run1  
MP/ Ratio @ 500 hPa for Oct

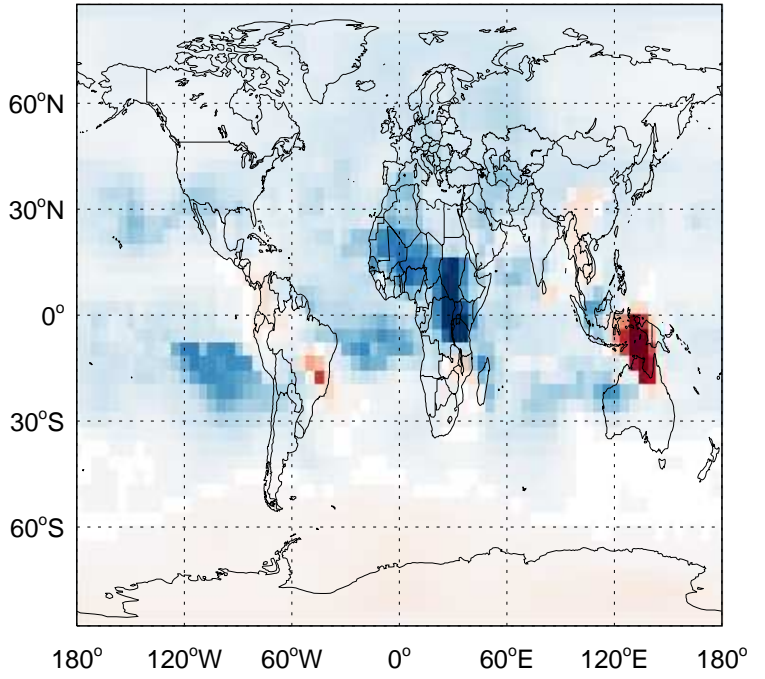


# GEOS-Chem Ratio Maps at surface and 500 hPa

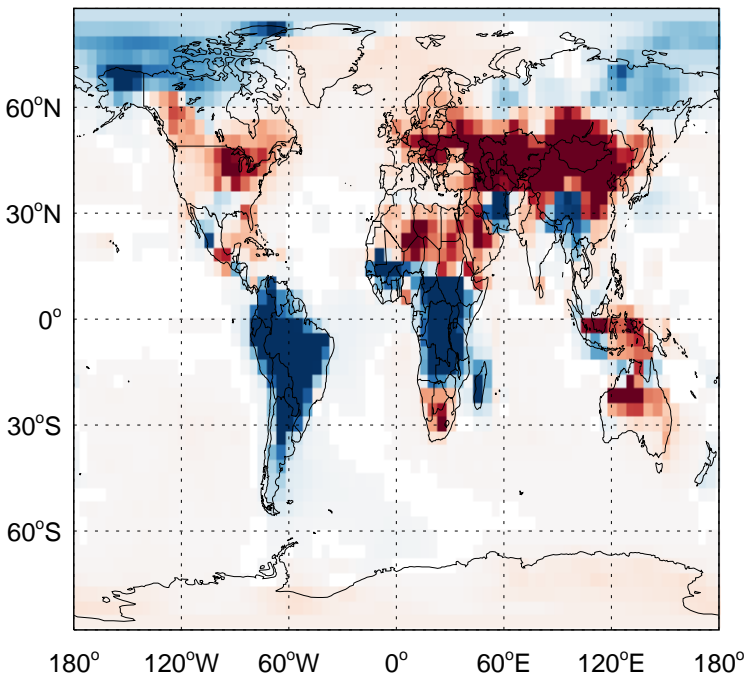
GC\_12.0.0 / v11-02f-Run1  
DMS / Ratio @ Surface for Oct



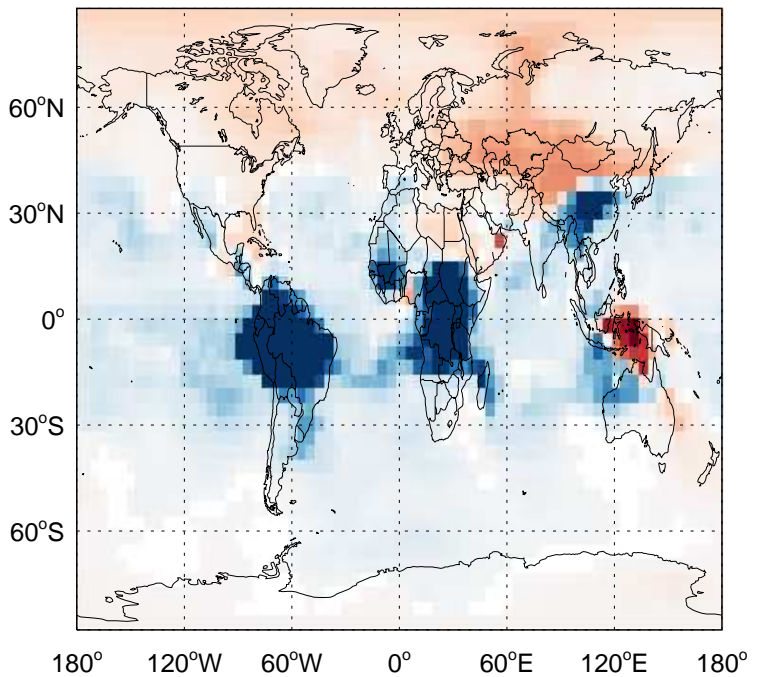
GC\_12.0.0 / v11-02f-Run1  
DMS/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DMS / Ratio @ Surface for Oct

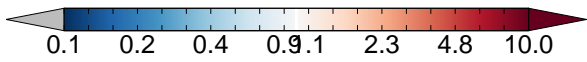
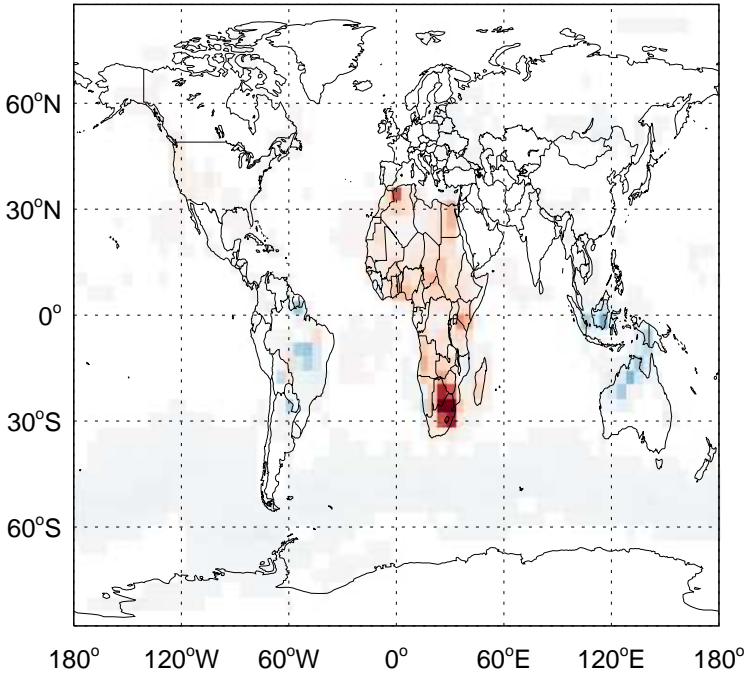


GC\_12.0.0 / v11-02e-Run1  
DMS/ Ratio @ 500 hPa for Oct

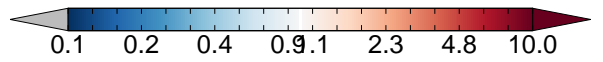
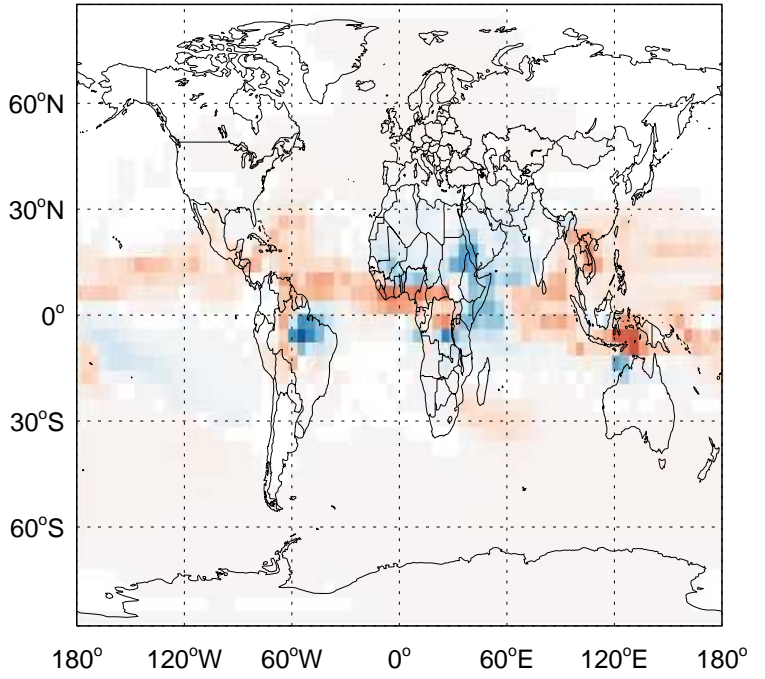


# GEOS-Chem Ratio Maps at surface and 500 hPa

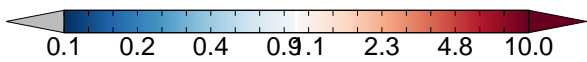
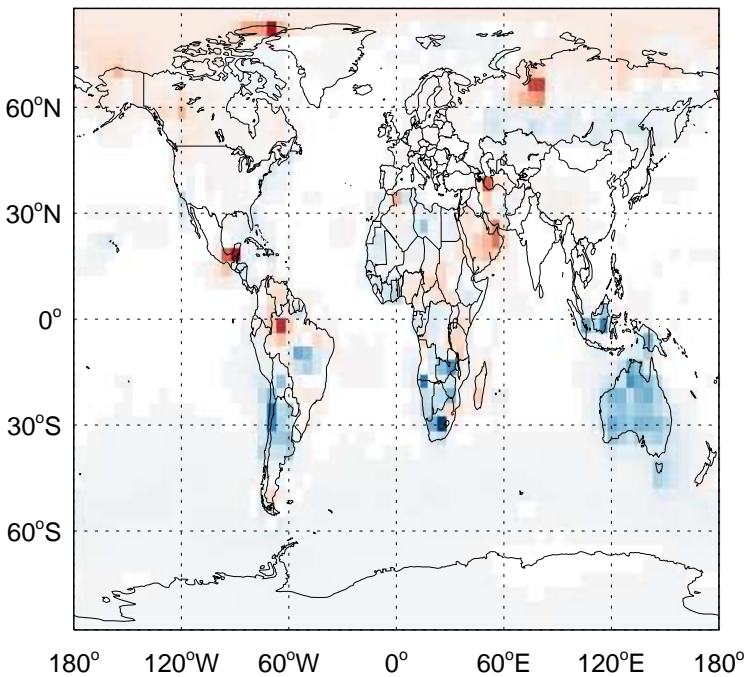
GC\_12.0.0 / v11-02f-Run1  
SO2 / Ratio @ Surface for Oct



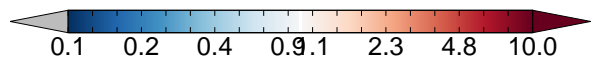
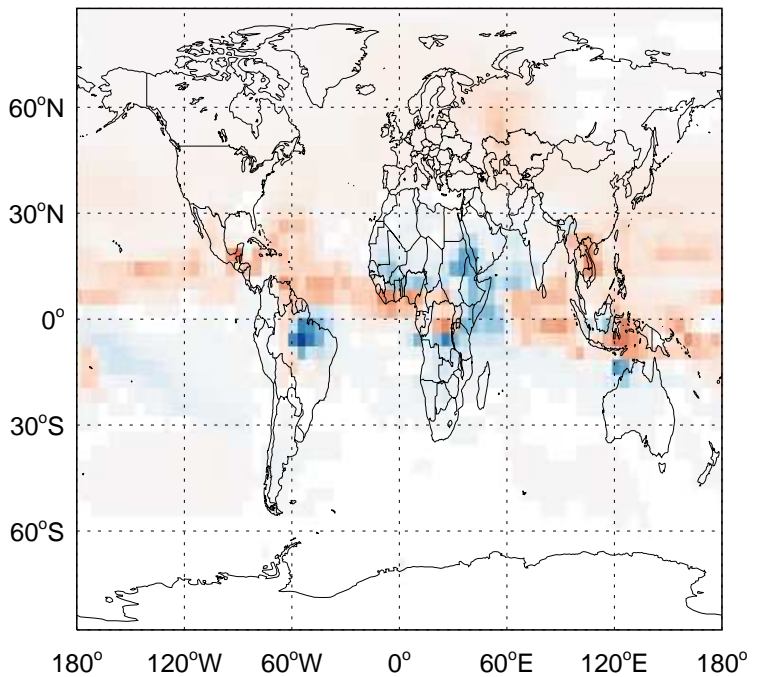
GC\_12.0.0 / v11-02f-Run1  
SO2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SO2 / Ratio @ Surface for Oct



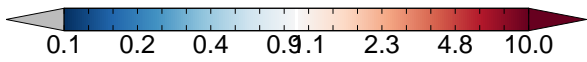
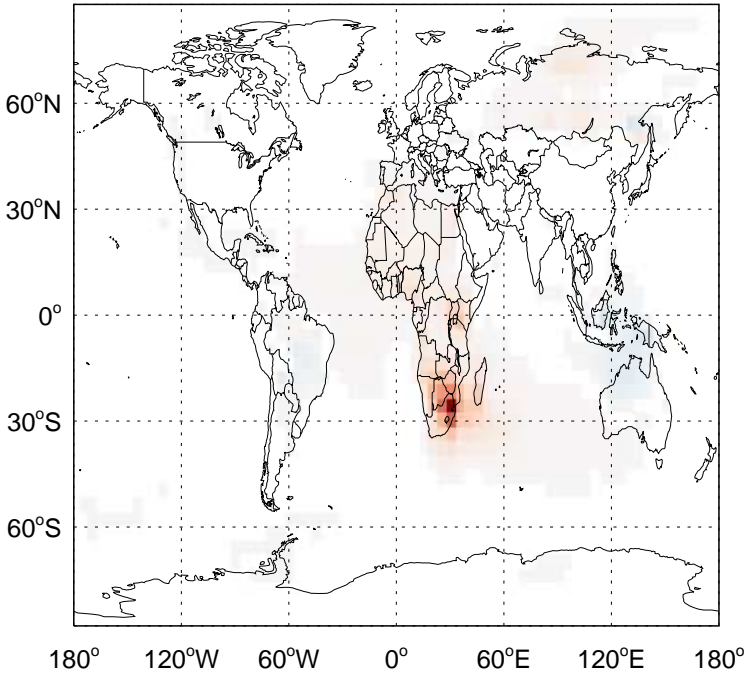
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SO2/ Ratio @ 500 hPa for Oct



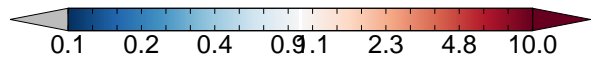
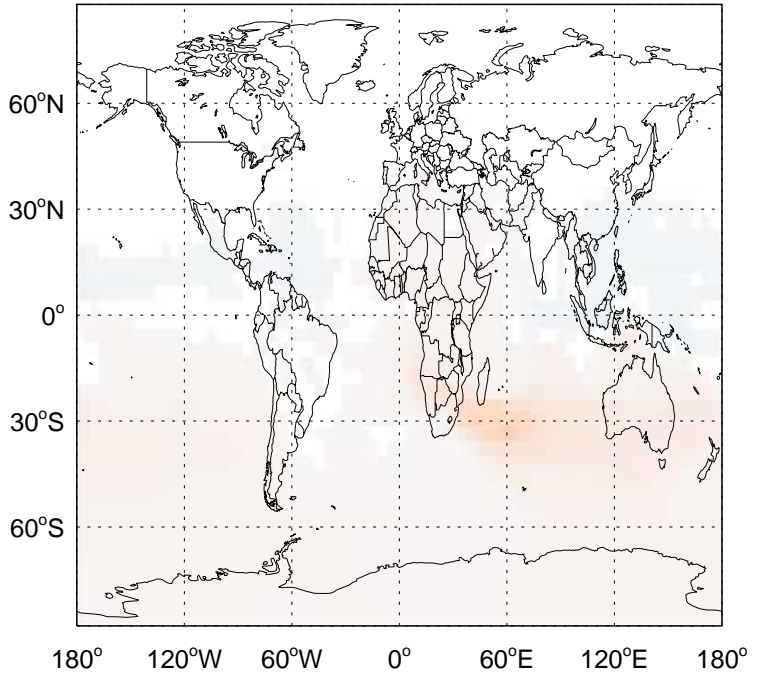


# GEOS-Chem Ratio Maps at surface and 500 hPa

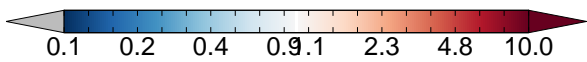
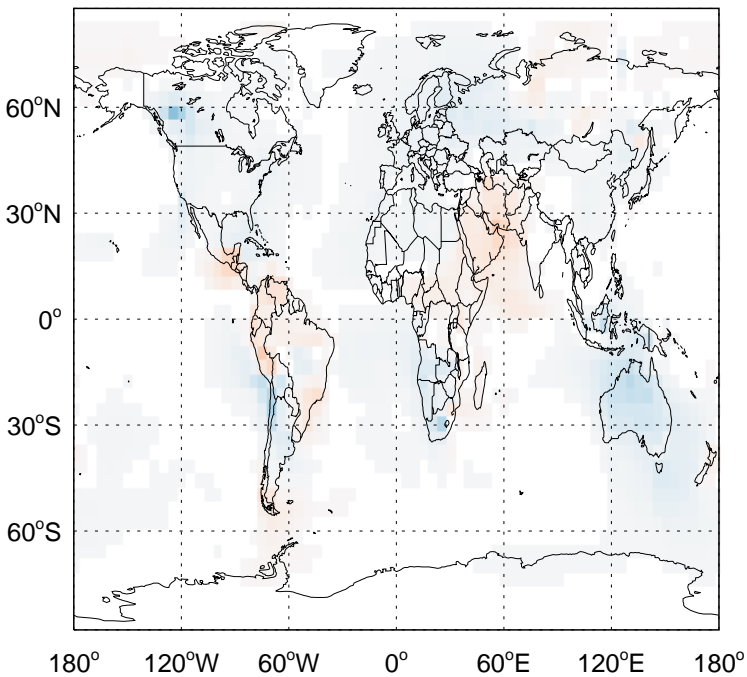
GC\_12.0.0 / v11-02f-Run1  
SO4 / Ratio @ Surface for Oct



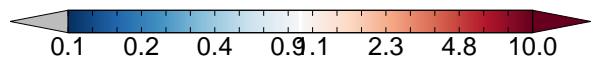
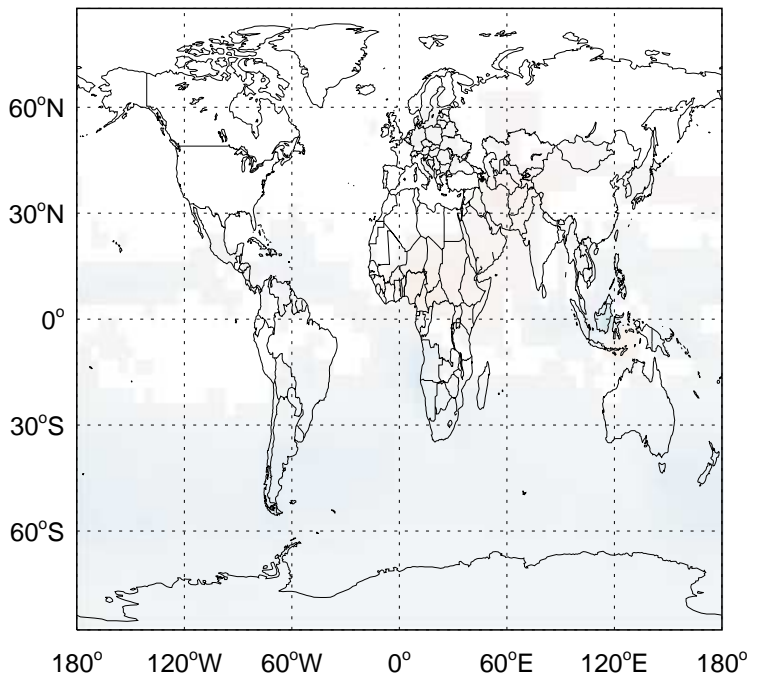
GC\_12.0.0 / v11-02f-Run1  
SO4/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SO4 / Ratio @ Surface for Oct

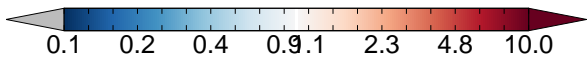
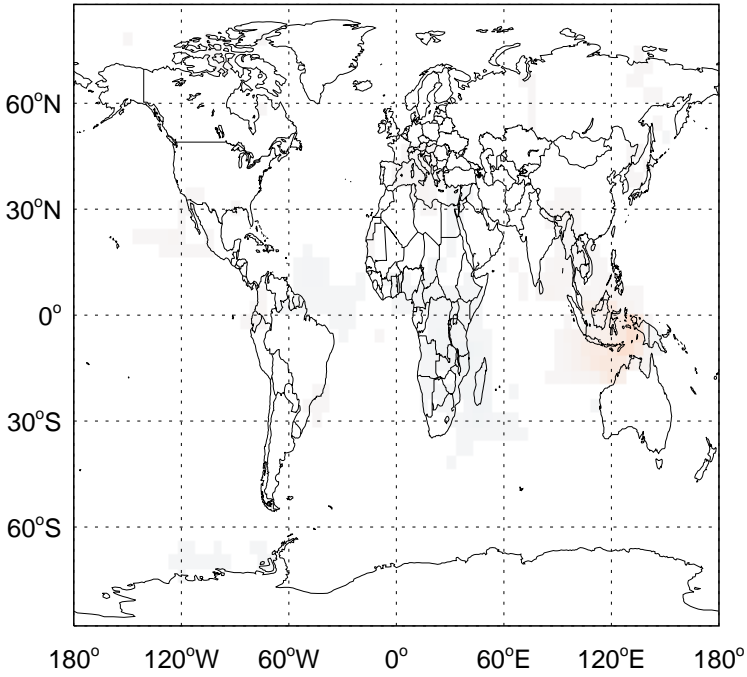


GC\_12.0.0 / v11-02e-Run1  
SO4/ Ratio @ 500 hPa for Oct

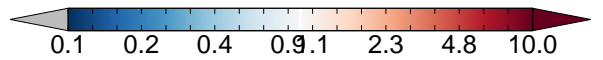
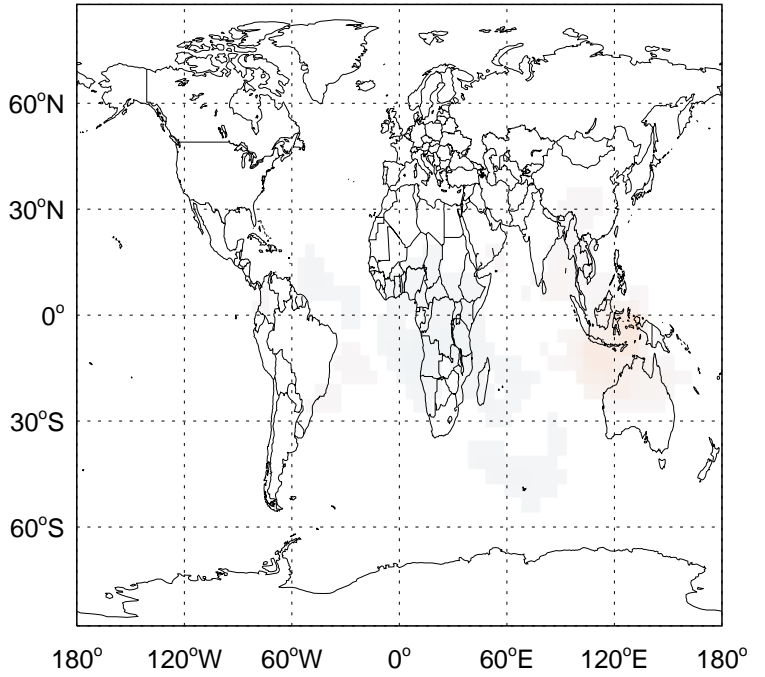


# GEOS-Chem Ratio Maps at surface and 500 hPa

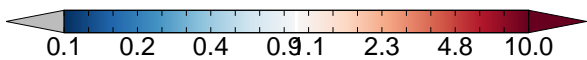
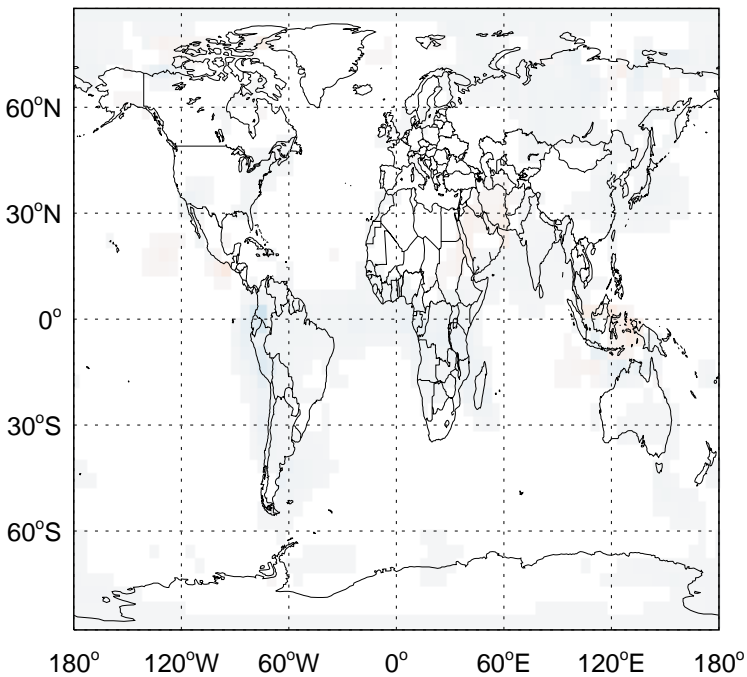
GC\_12.0.0 / v11-02f-Run1  
SO4s / Ratio @ Surface for Oct



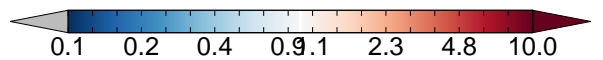
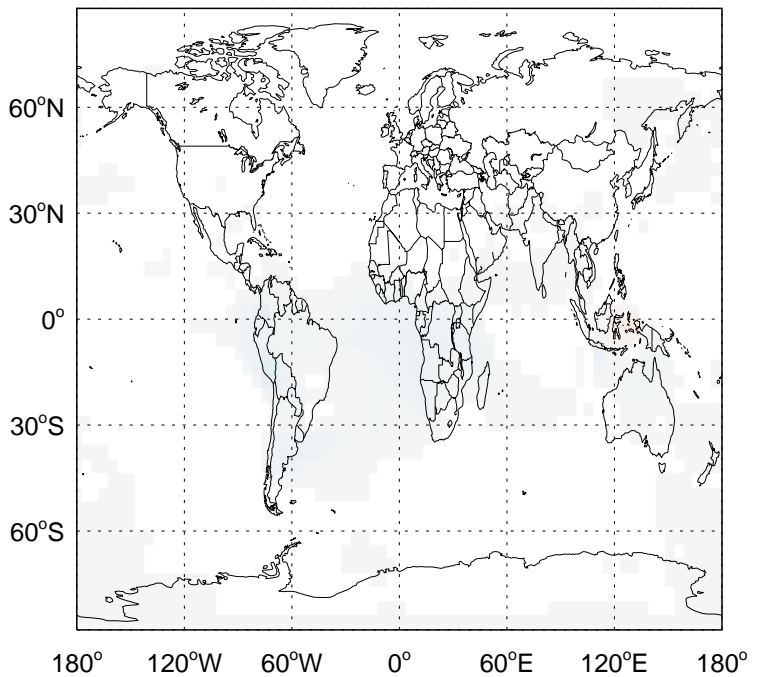
GC\_12.0.0 / v11-02f-Run1  
SO4s / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SO4s / Ratio @ Surface for Oct

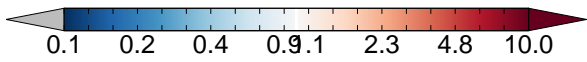
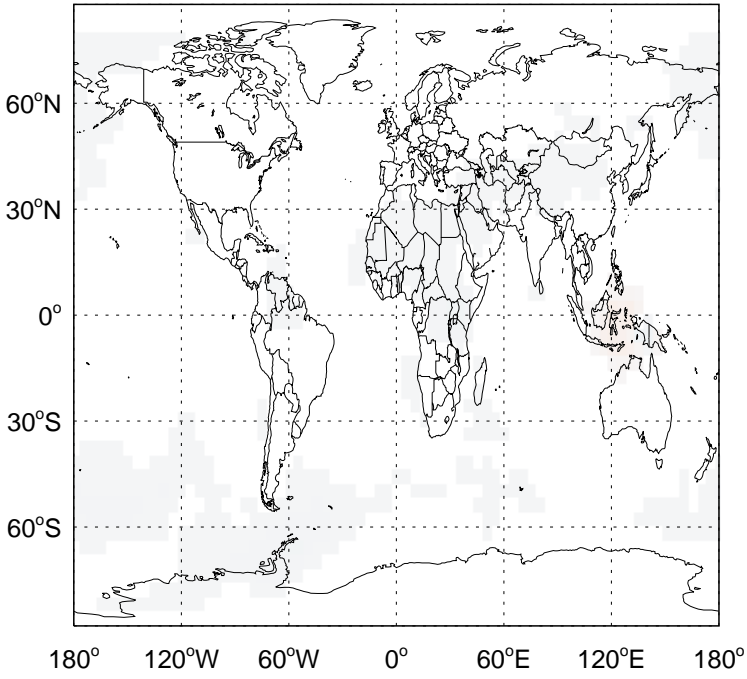


GC\_12.0.0 / v11-02e-Run1  
SO4s / Ratio @ 500 hPa for Oct

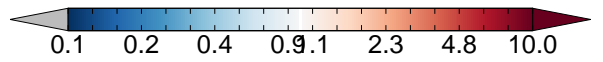
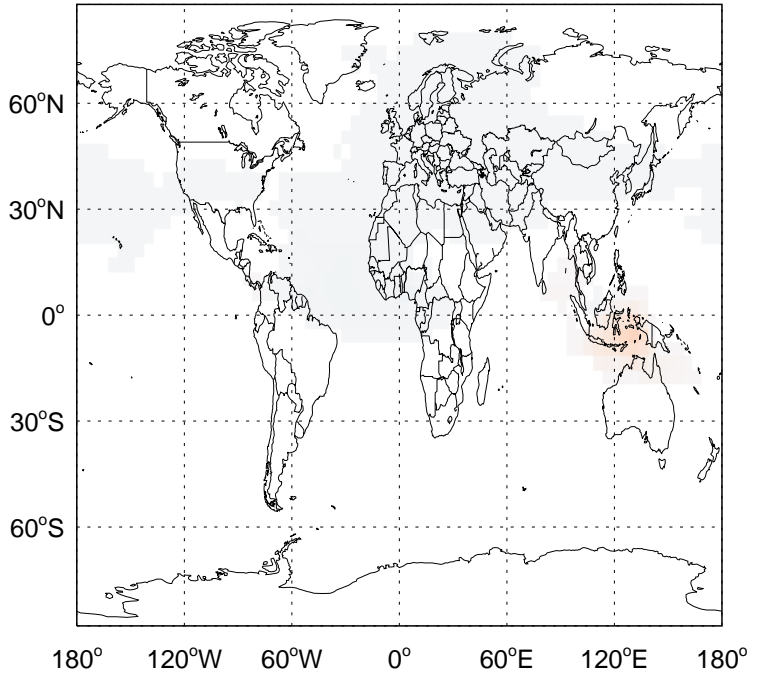


# GEOS-Chem Ratio Maps at surface and 500 hPa

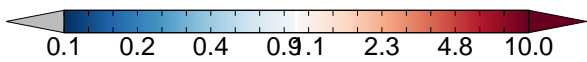
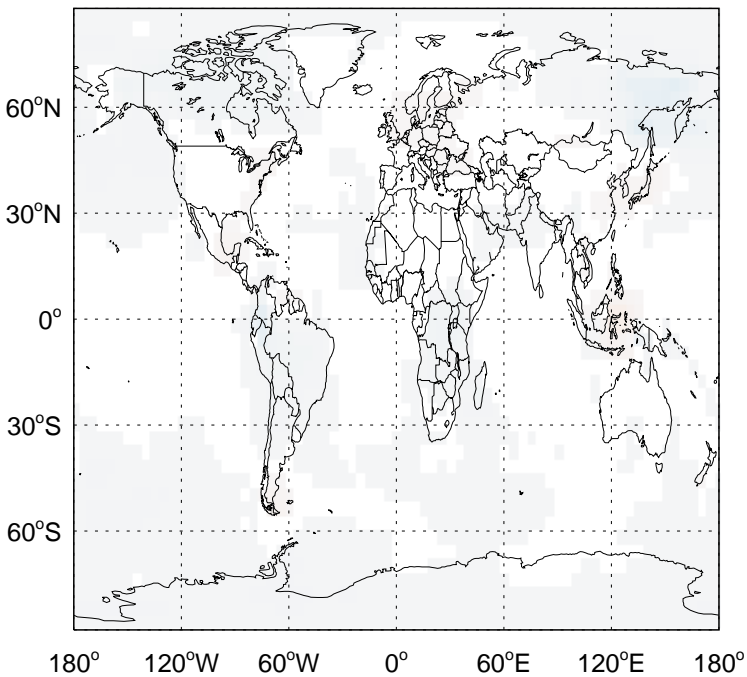
GC\_12.0.0 / v11-02f-Run1  
MSA / Ratio @ Surface for Oct



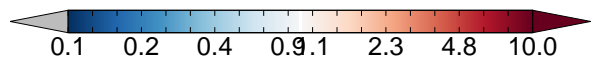
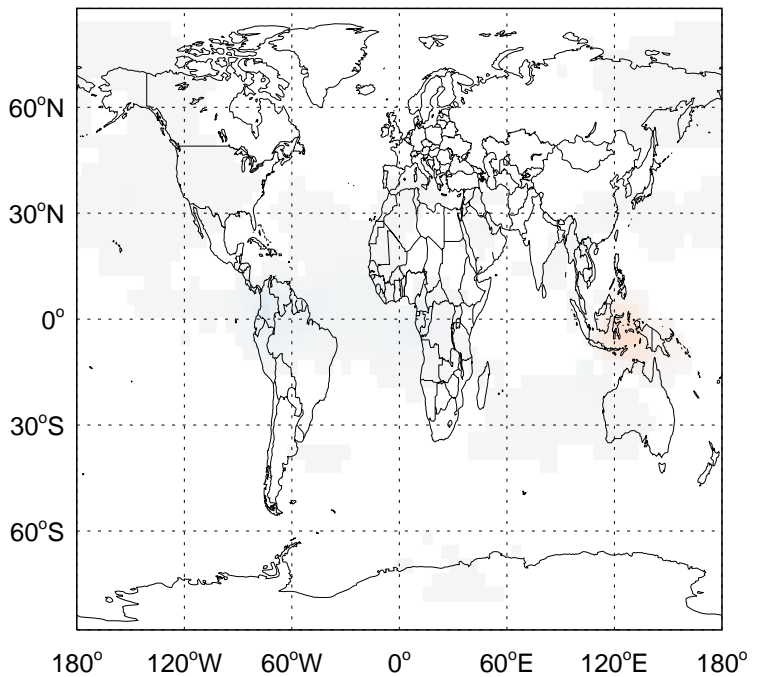
GC\_12.0.0 / v11-02f-Run1  
MSA / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MSA / Ratio @ Surface for Oct



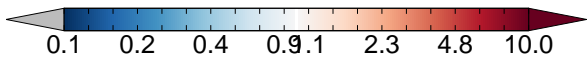
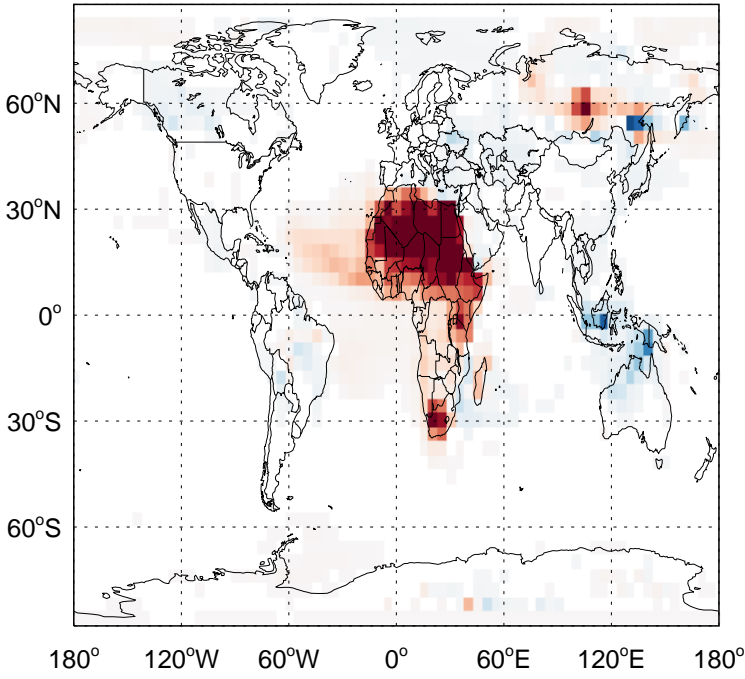
GC\_12.0.0 / v11-02e-Run1  
MSA / Ratio @ 500 hPa for Oct



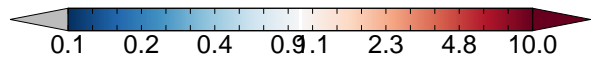
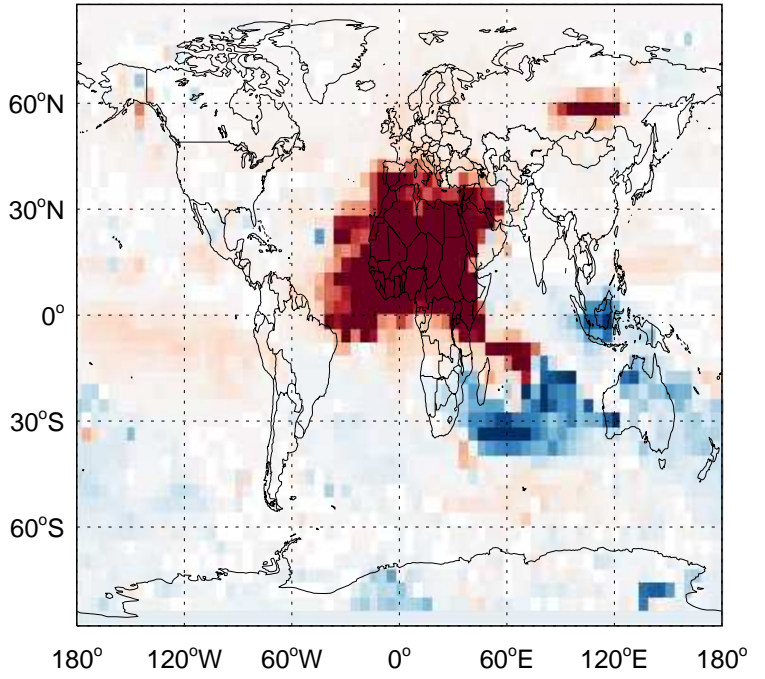


# GEOS-Chem Ratio Maps at surface and 500 hPa

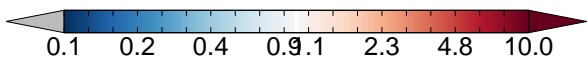
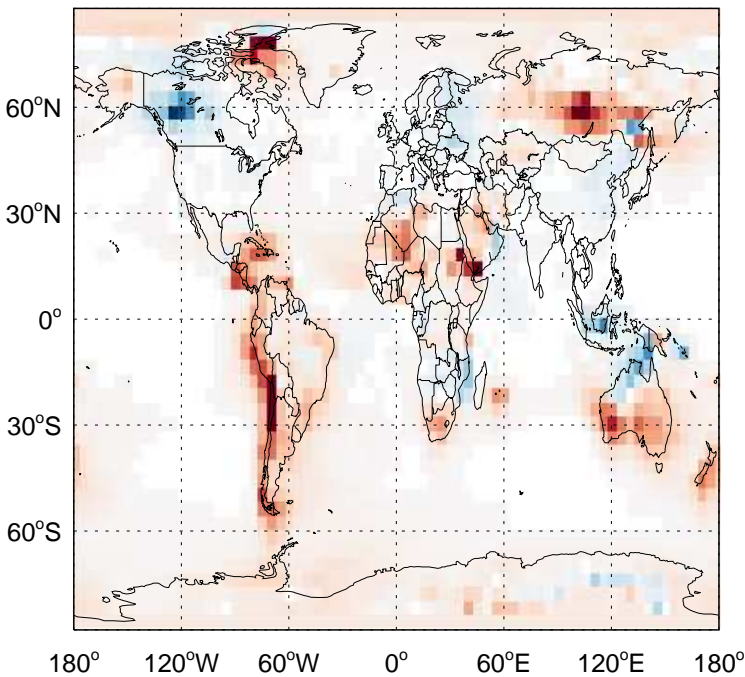
GC\_12.0.0 / v11-02f-Run1  
NH3 / Ratio @ Surface for Oct



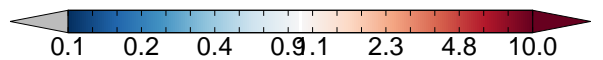
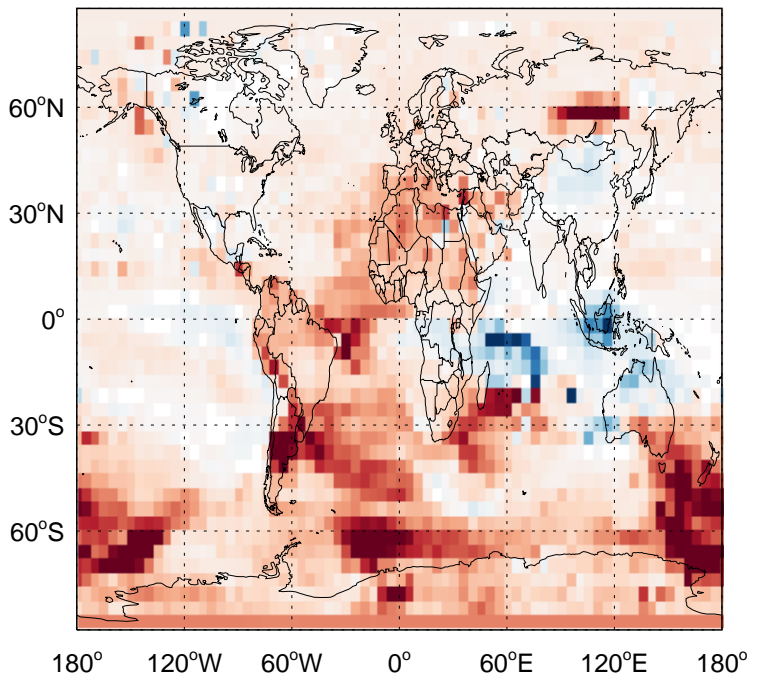
GC\_12.0.0 / v11-02f-Run1  
NH3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NH3 / Ratio @ Surface for Oct

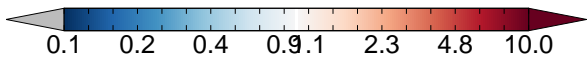
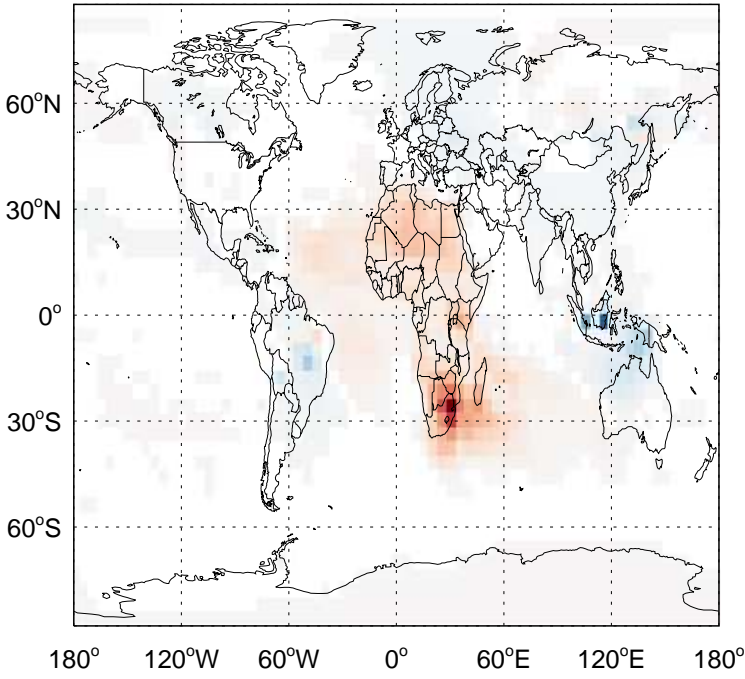


GC\_12.0.0 / v11-02e-Run1  
NH3/ Ratio @ 500 hPa for Oct

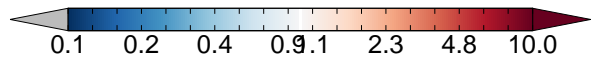
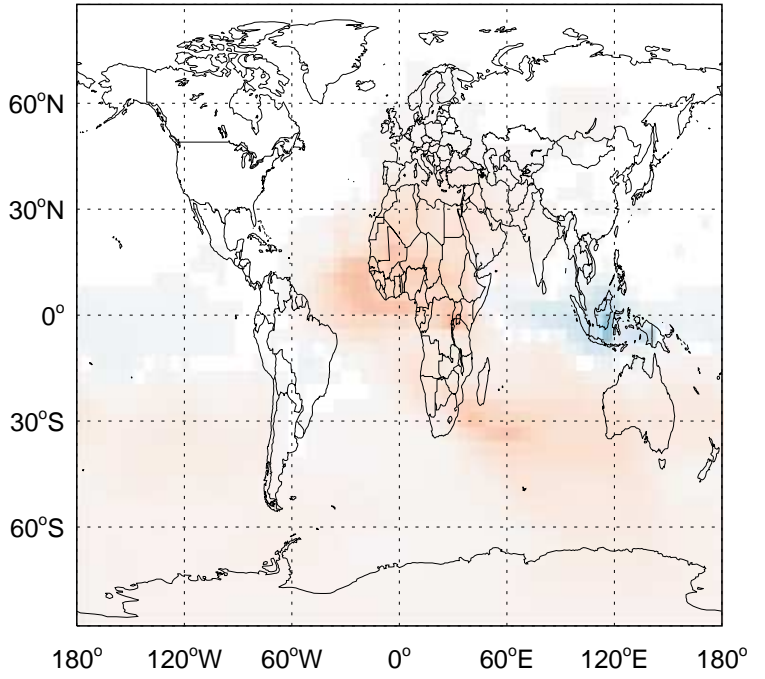


# GEOS-Chem Ratio Maps at surface and 500 hPa

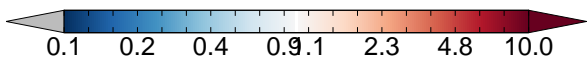
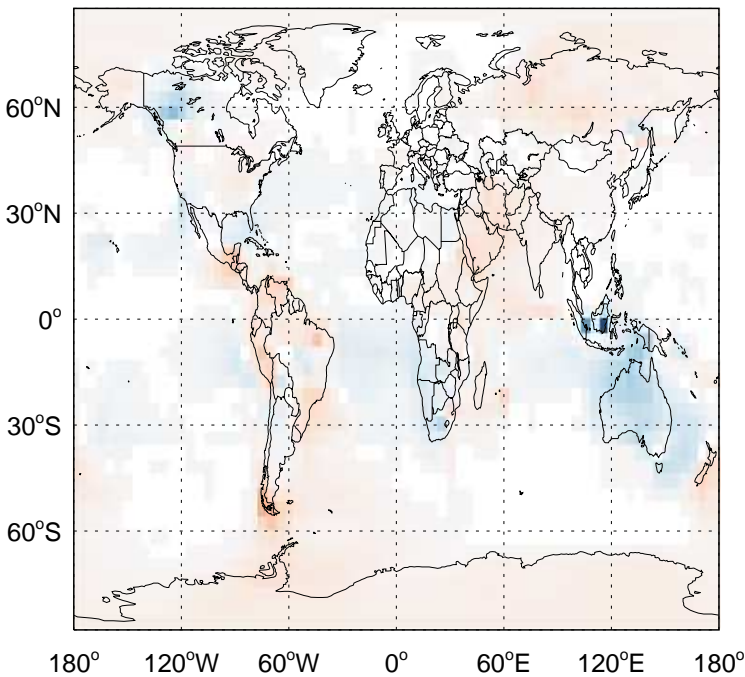
GC\_12.0.0 / v11-02f-Run1  
NH4 / Ratio @ Surface for Oct



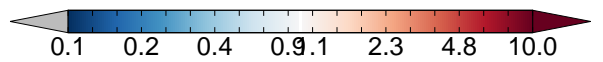
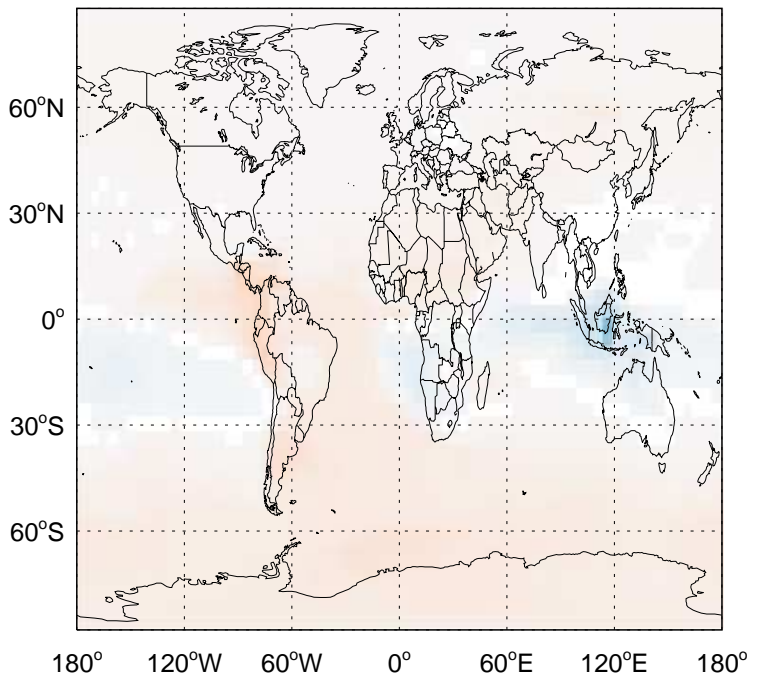
GC\_12.0.0 / v11-02f-Run1  
NH4/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NH4 / Ratio @ Surface for Oct

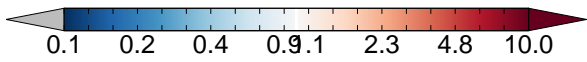
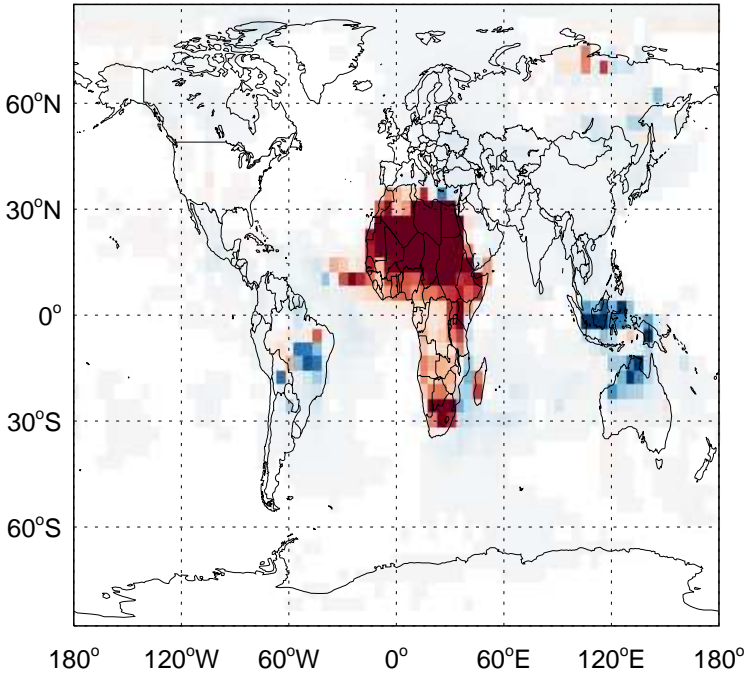


GC\_12.0.0 / v11-02e-Run1  
NH4/ Ratio @ 500 hPa for Oct

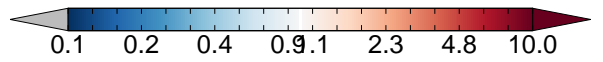
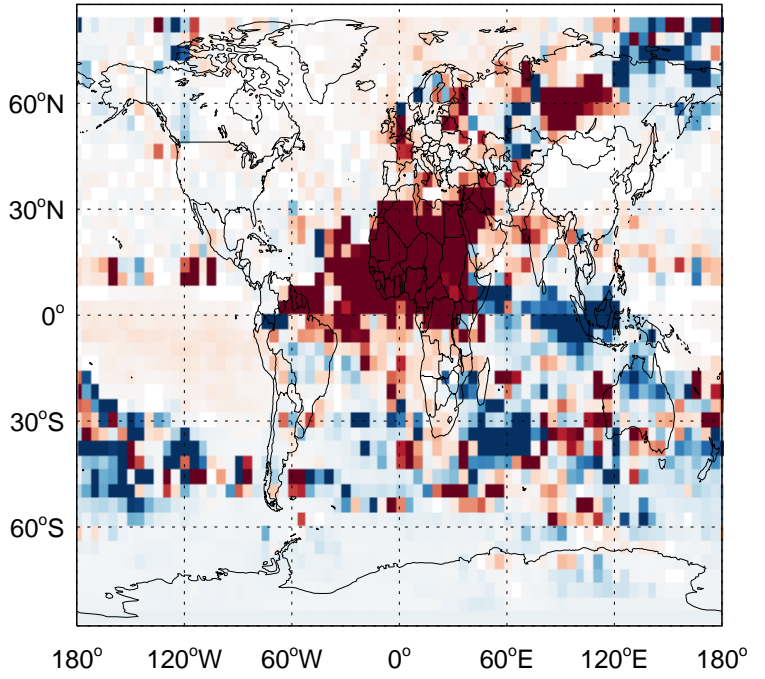


# GEOS-Chem Ratio Maps at surface and 500 hPa

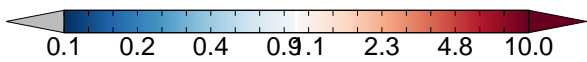
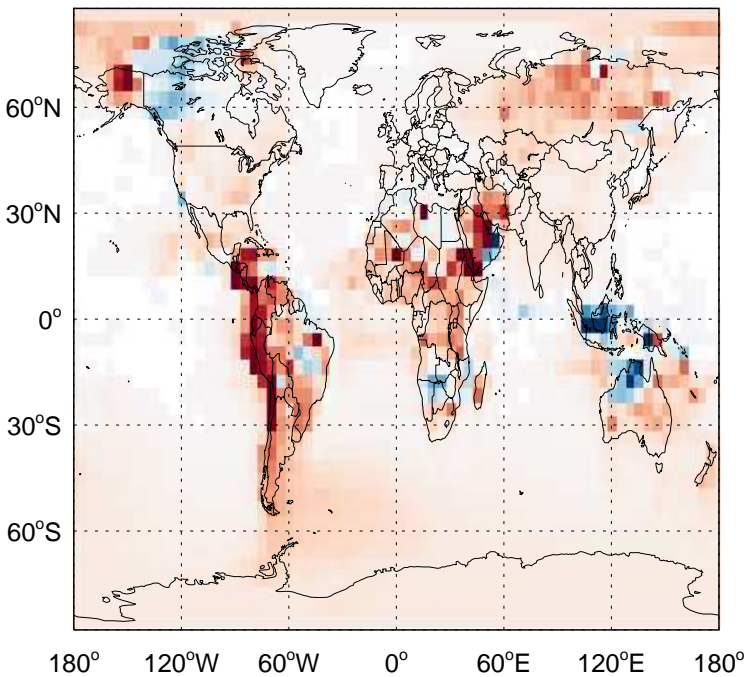
GC\_12.0.0 / v11-02f-Run1  
NIT / Ratio @ Surface for Oct



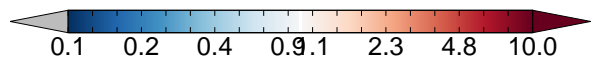
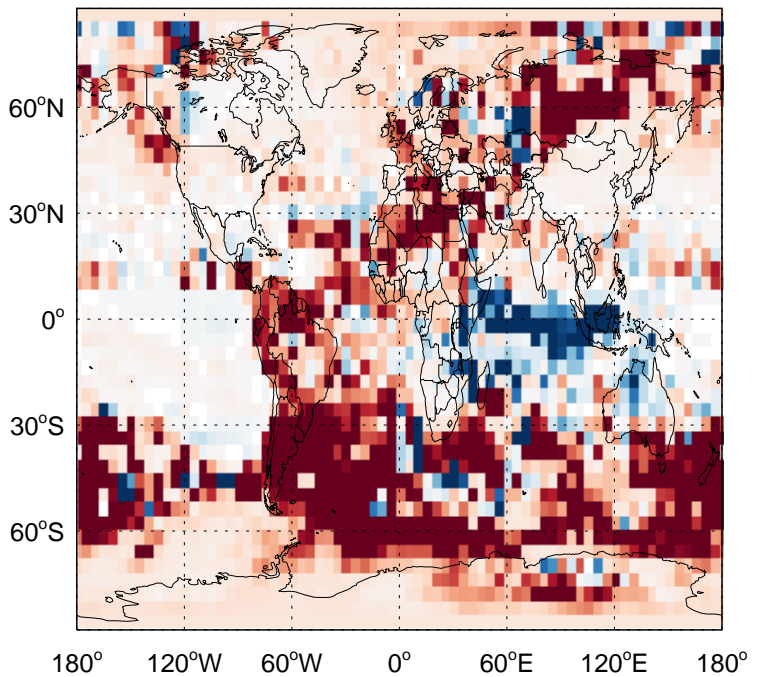
GC\_12.0.0 / v11-02f-Run1  
NIT/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NIT / Ratio @ Surface for Oct



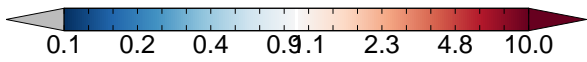
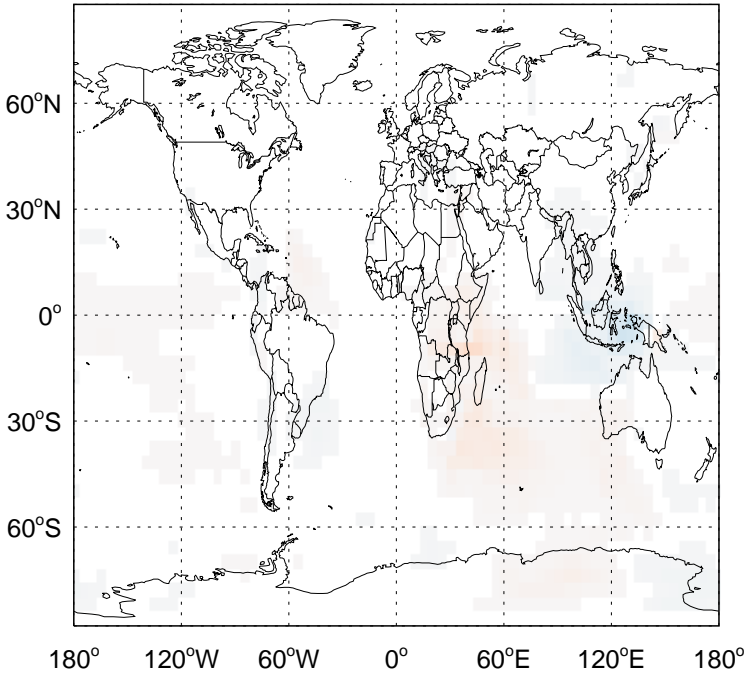
GC\_12.0.0 / v11-02e-Run1  
NIT/ Ratio @ 500 hPa for Oct



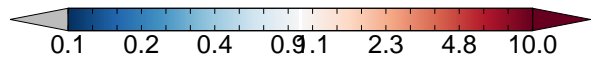
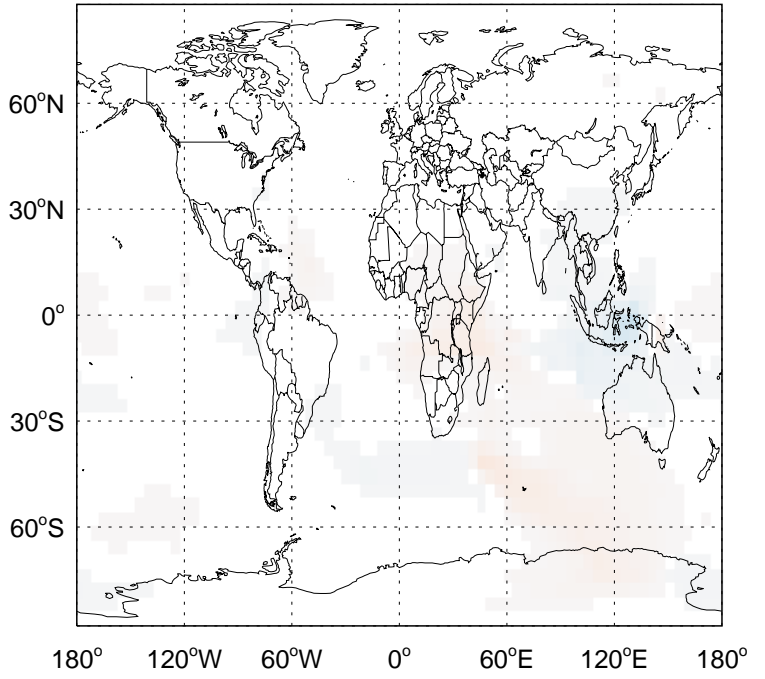


# GEOS-Chem Ratio Maps at surface and 500 hPa

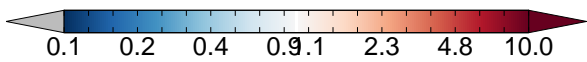
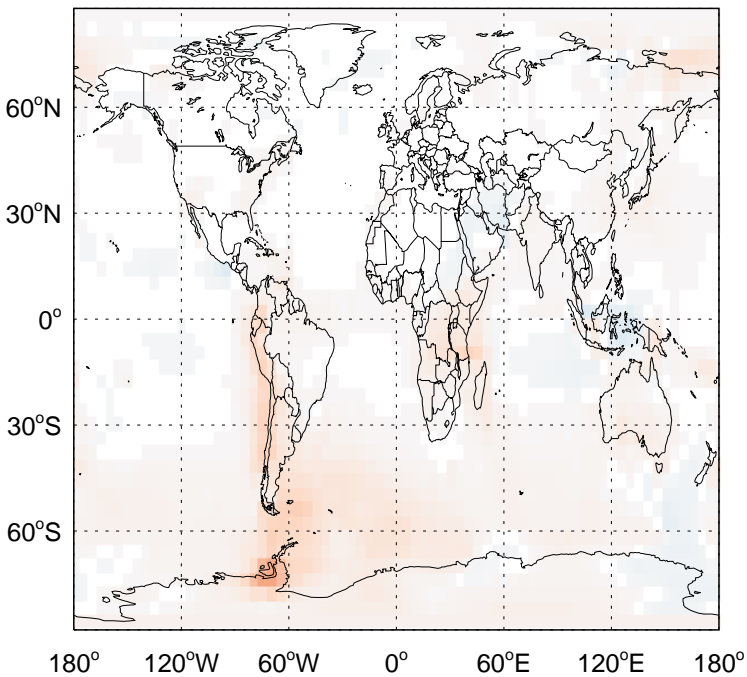
GC\_12.0.0 / v11-02f-Run1  
NITs / Ratio @ Surface for Oct



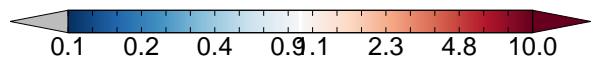
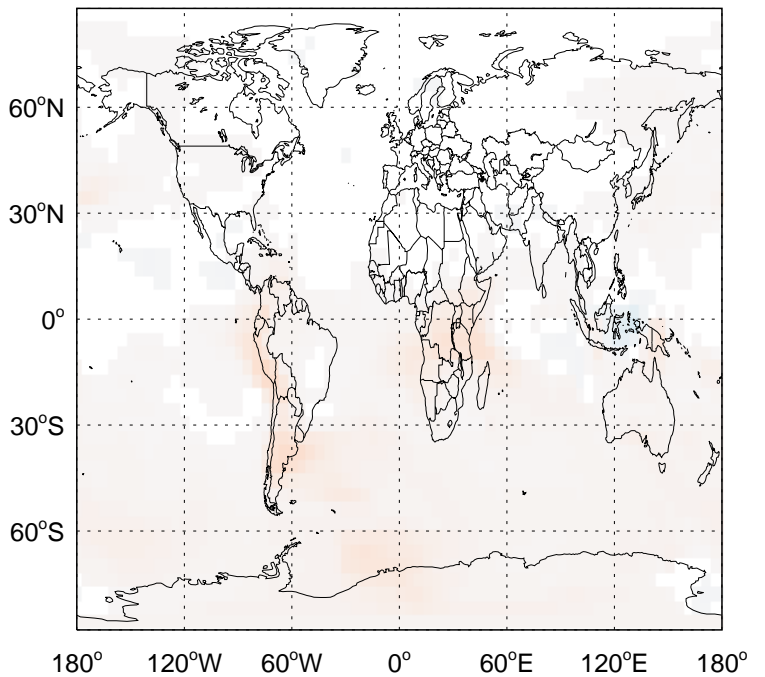
GC\_12.0.0 / v11-02f-Run1  
NITs/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NITs / Ratio @ Surface for Oct

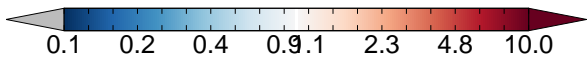
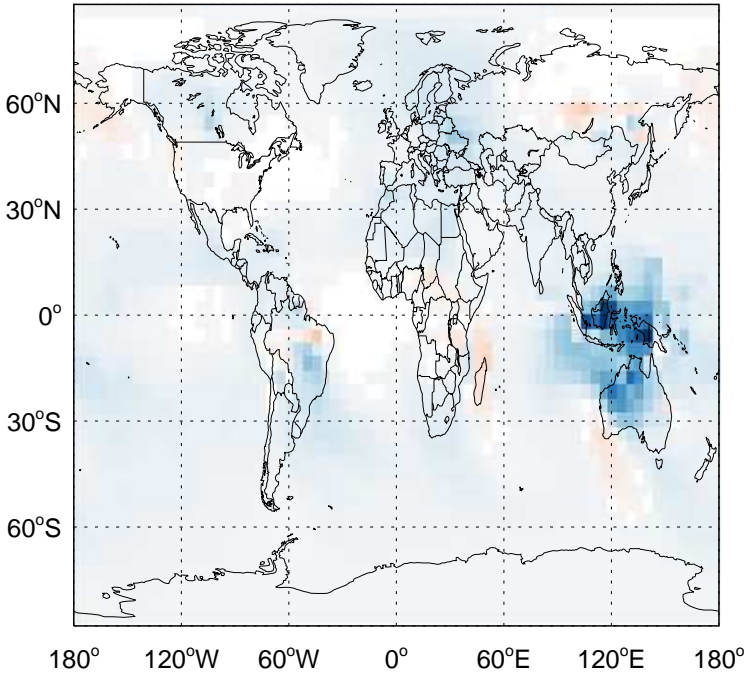


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NITs/ Ratio @ 500 hPa for Oct

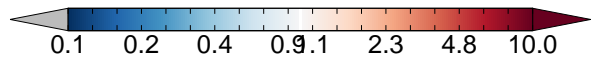
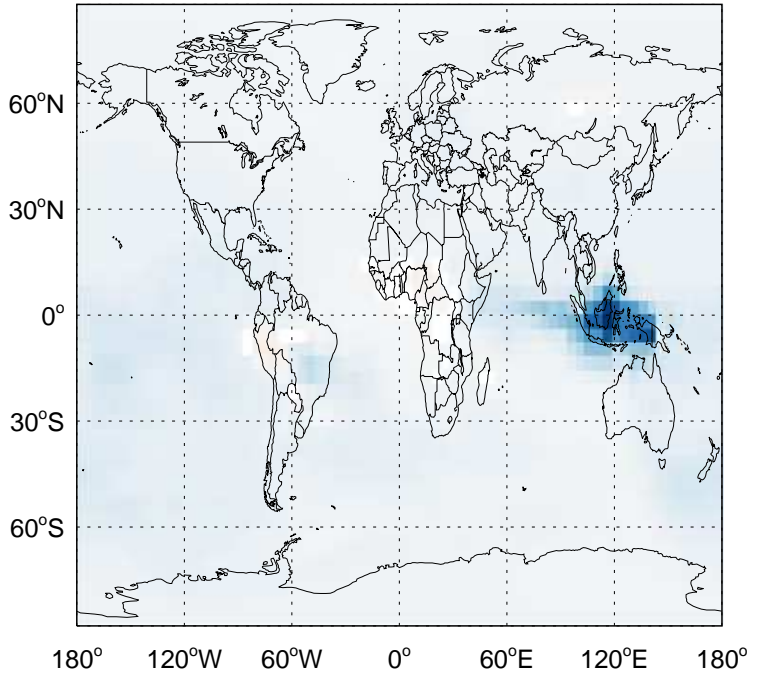


# GEOS-Chem Ratio Maps at surface and 500 hPa

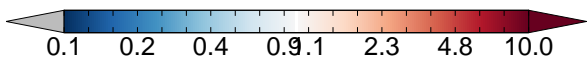
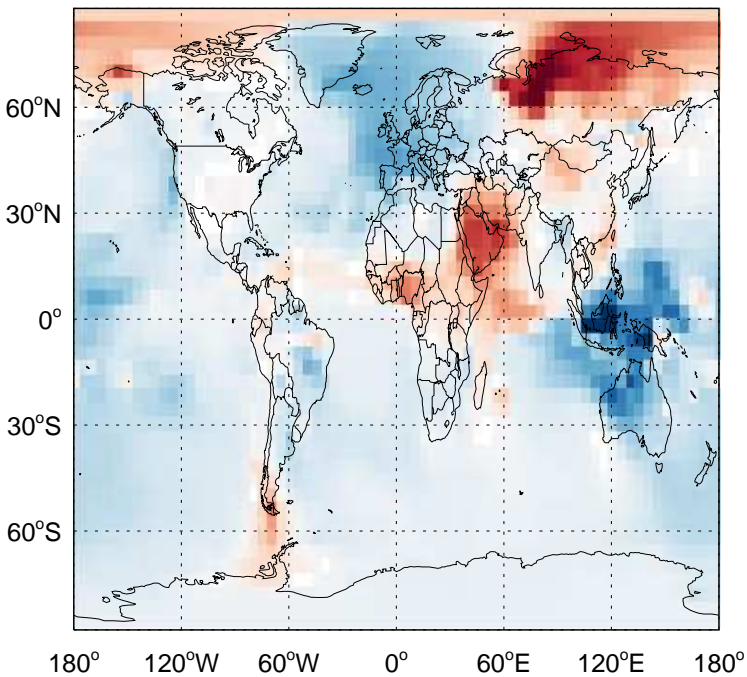
GC\_12.0.0 / v11-02f-Run1  
BCPI / Ratio @ Surface for Oct



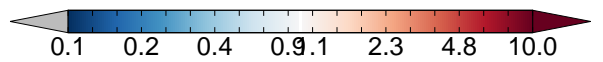
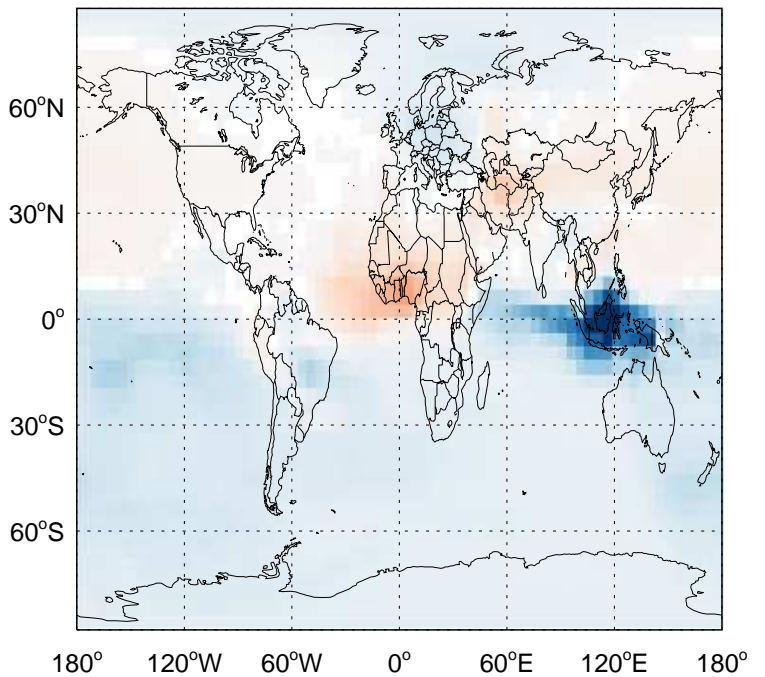
GC\_12.0.0 / v11-02f-Run1  
BCPI / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BCPI / Ratio @ Surface for Oct

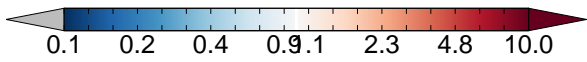
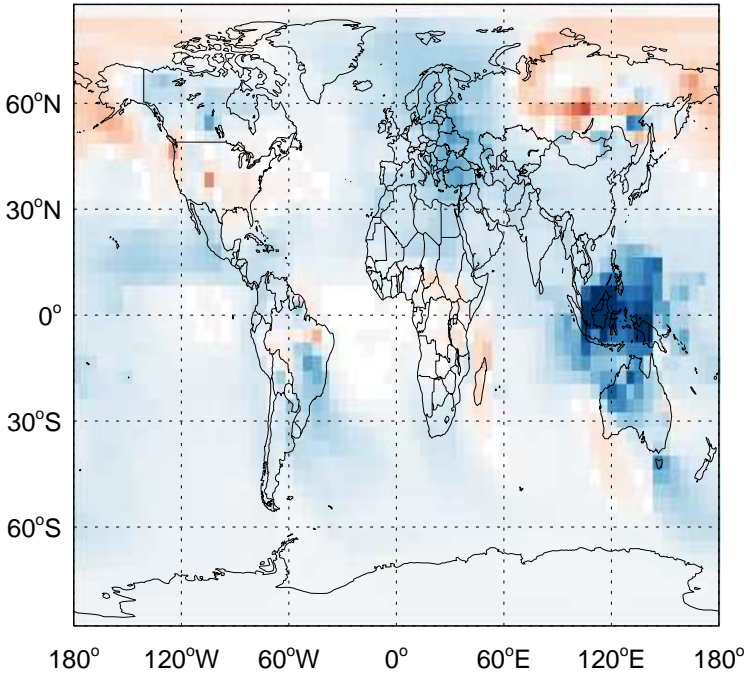


GC\_12.0.0 / v11-02e-Run1  
BCPI / Ratio @ 500 hPa for Oct

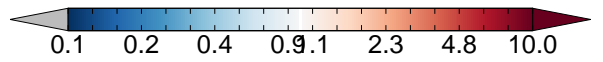
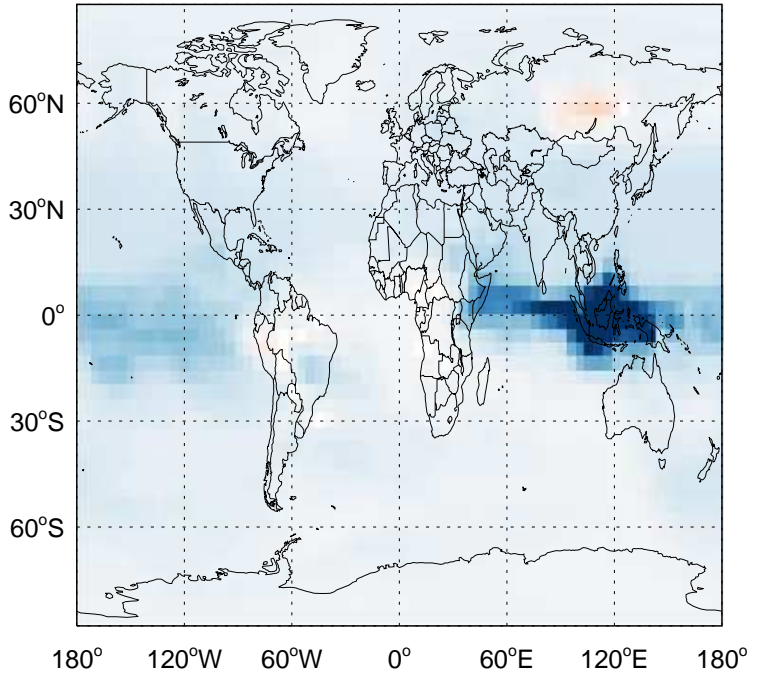


# GEOS-Chem Ratio Maps at surface and 500 hPa

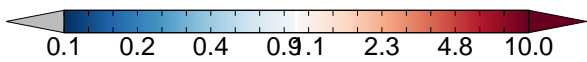
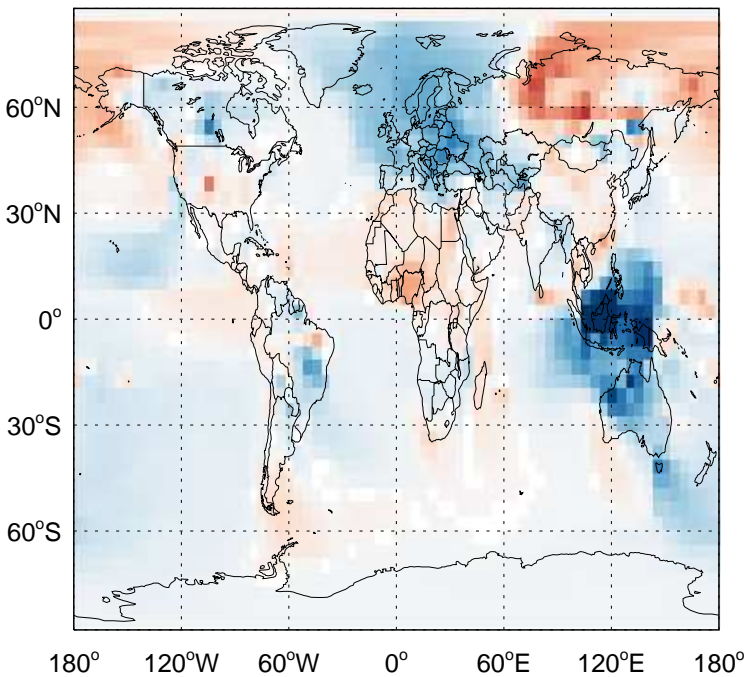
GC\_12.0.0 / v11-02f-Run1  
OCPI / Ratio @ Surface for Oct



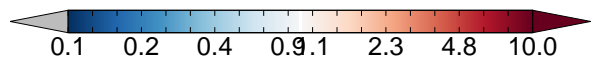
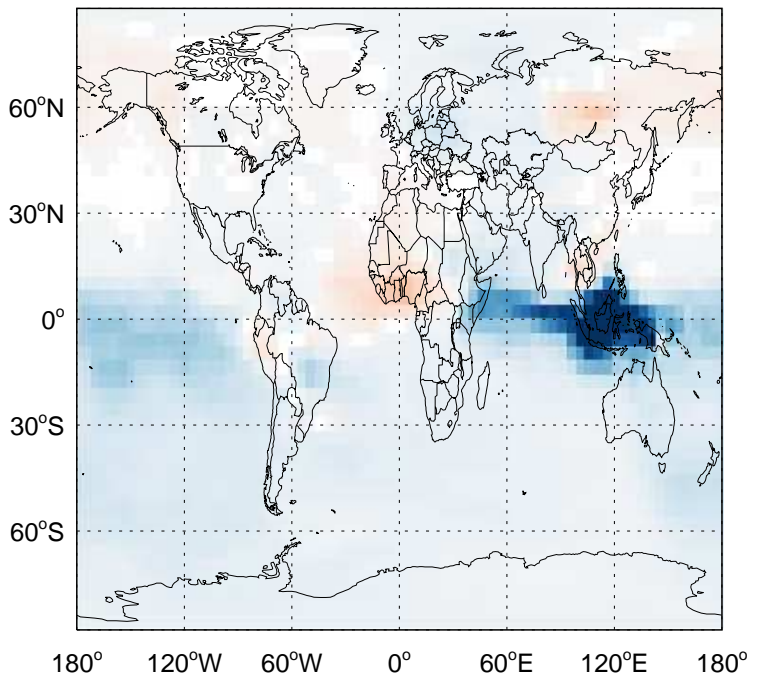
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OCPI / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
OCPI / Ratio @ Surface for Oct



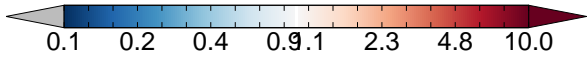
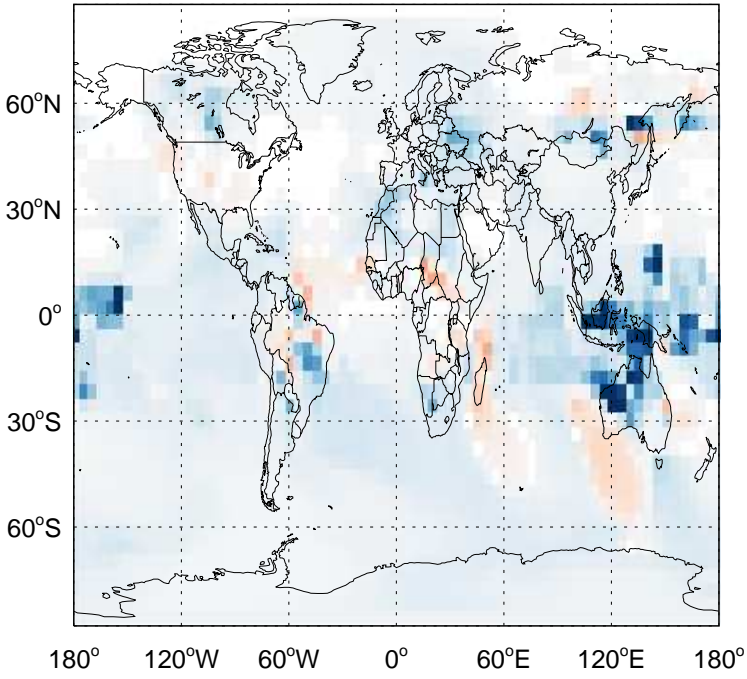
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OCPI / Ratio @ 500 hPa for Oct



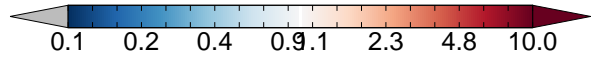
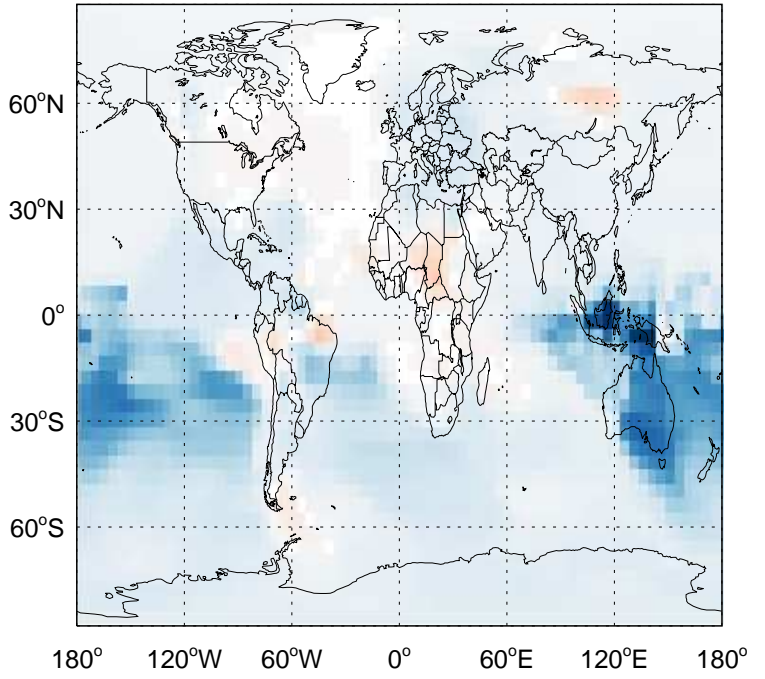


# GEOS-Chem Ratio Maps at surface and 500 hPa

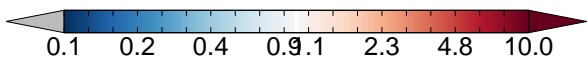
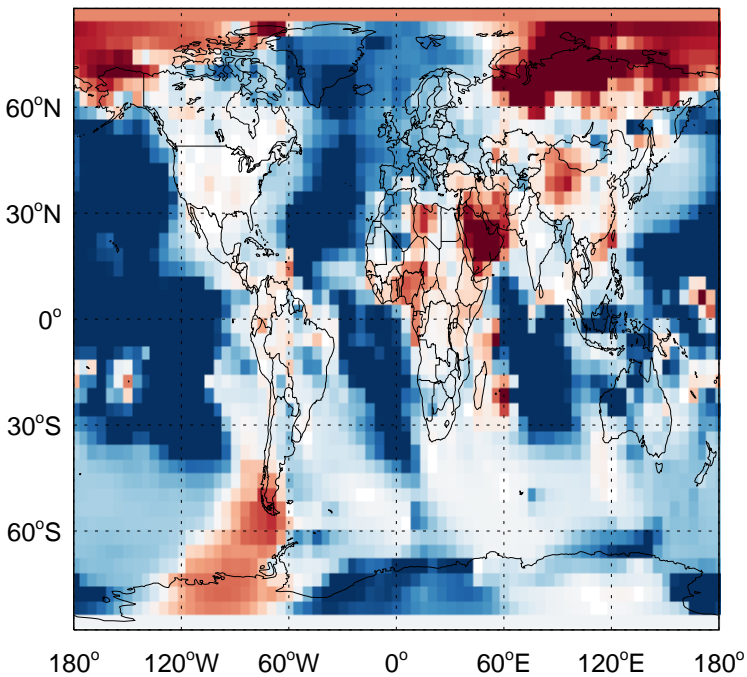
GC\_12.0.0 / v11-02f-Run1  
BCPO / Ratio @ Surface for Oct



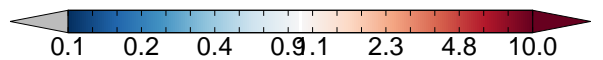
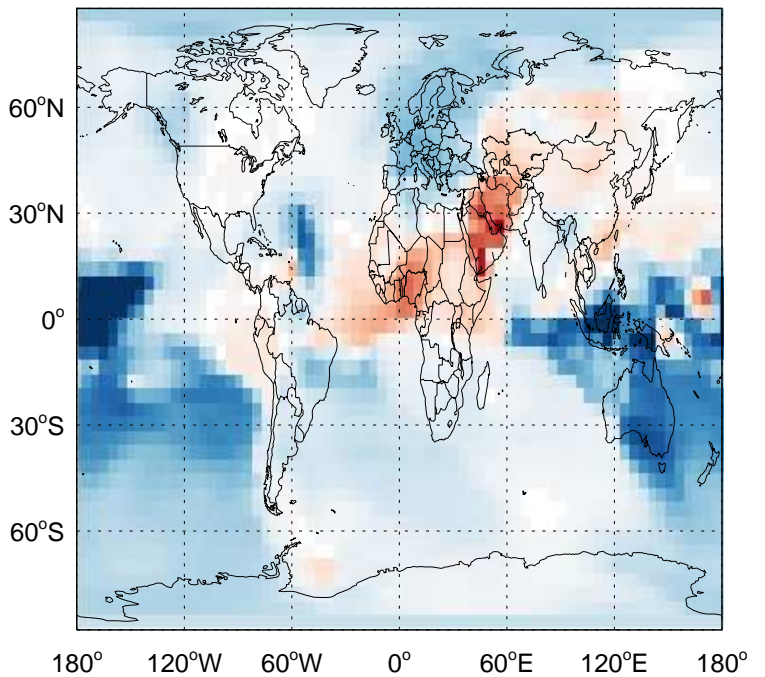
GC\_12.0.0 / v11-02f-Run1  
BCPO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BCPO / Ratio @ Surface for Oct

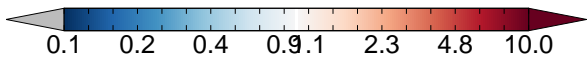
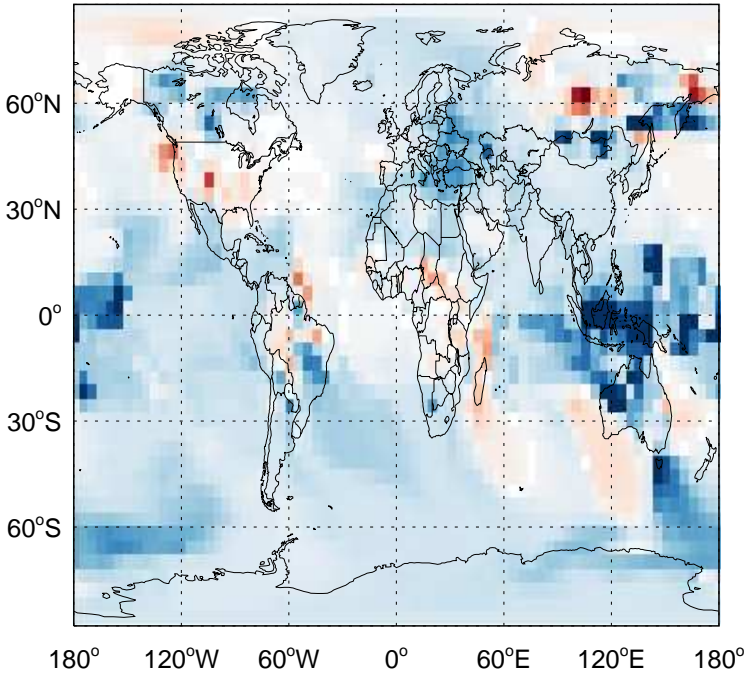


GC\_12.0.0 / v11-02e-Run1  
BCPO/ Ratio @ 500 hPa for Oct

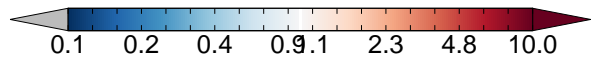
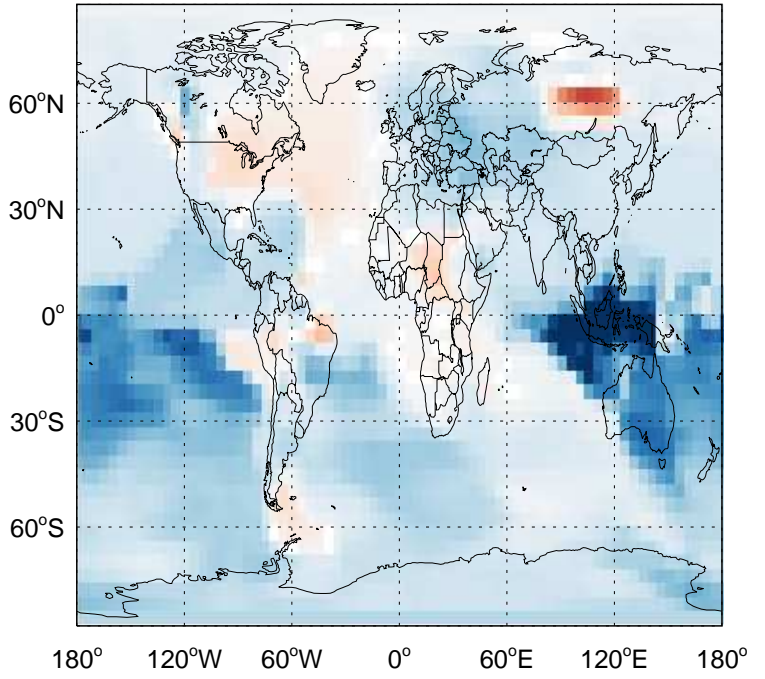


# GEOS-Chem Ratio Maps at surface and 500 hPa

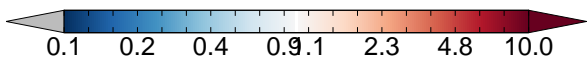
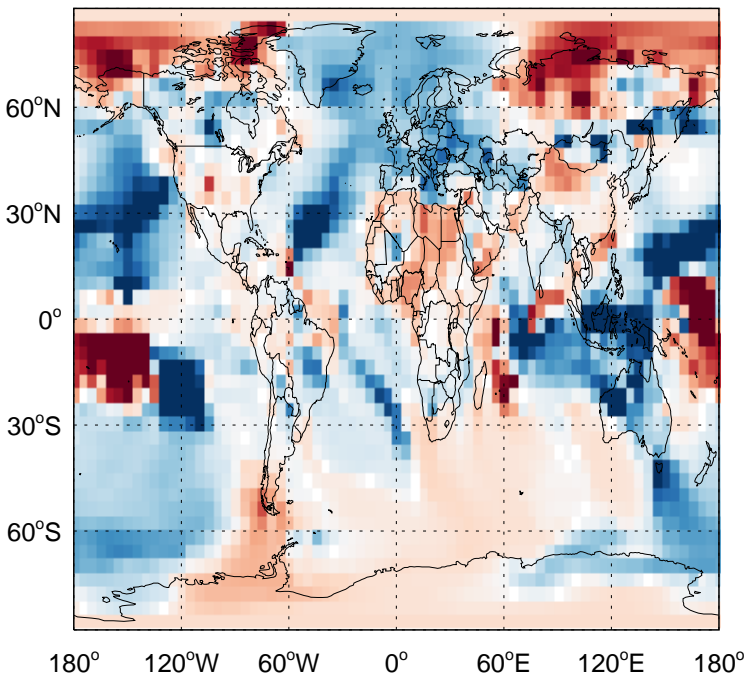
GC\_12.0.0 / v11-02f-Run1  
OCPO / Ratio @ Surface for Oct



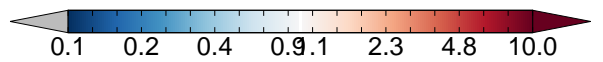
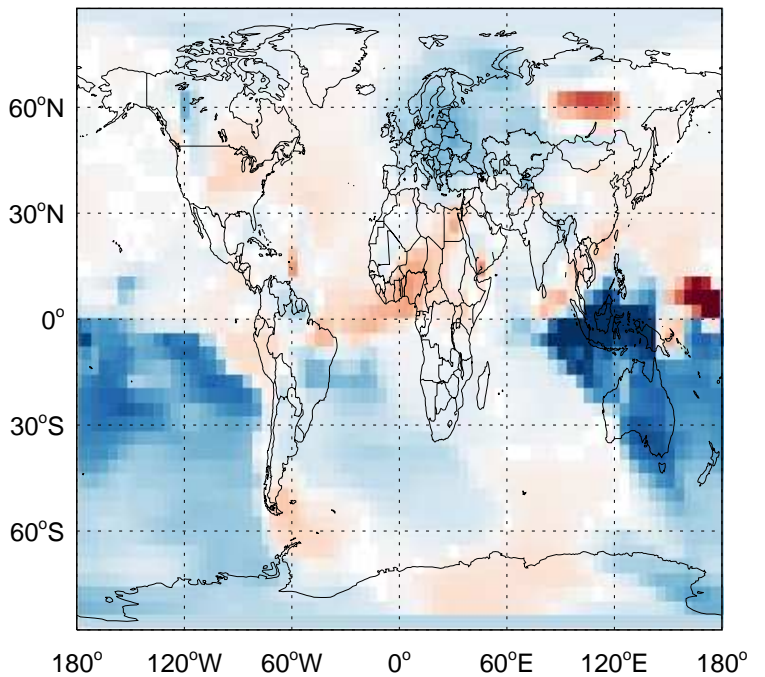
GC\_12.0.0 / v11-02f-Run1  
OCPO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
OCPO / Ratio @ Surface for Oct

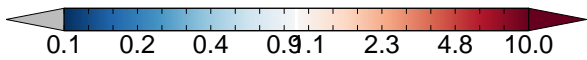


GC\_12.0.0 / v11-02e-Run1  
OCPO/ Ratio @ 500 hPa for Oct

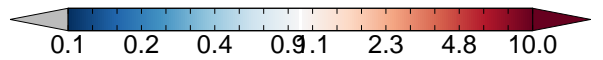


# GEOS-Chem Ratio Maps at surface and 500 hPa

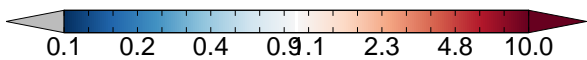
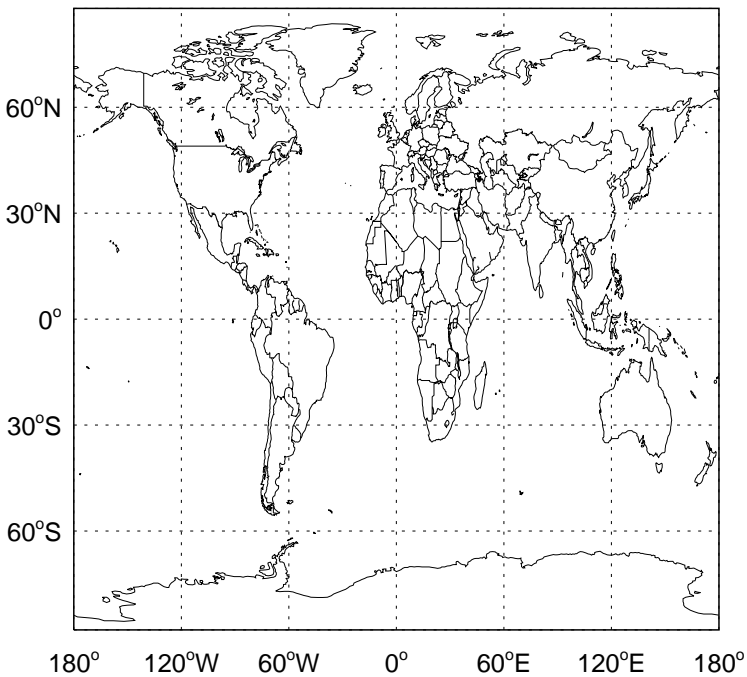
GC\_12.0.0 / v11-02f-Run1  
DST1 / Ratio @ Surface for Oct



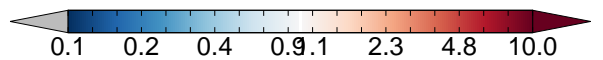
GC\_12.0.0 / v11-02f-Run1  
DST1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DST1 / Ratio @ Surface for Oct



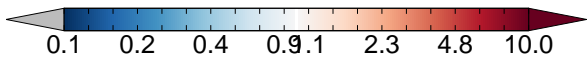
GC\_12.0.0 / v11-02e-Run1  
DST1/ Ratio @ 500 hPa for Oct



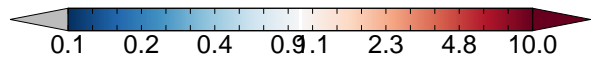


# GEOS-Chem Ratio Maps at surface and 500 hPa

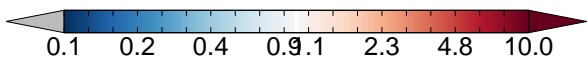
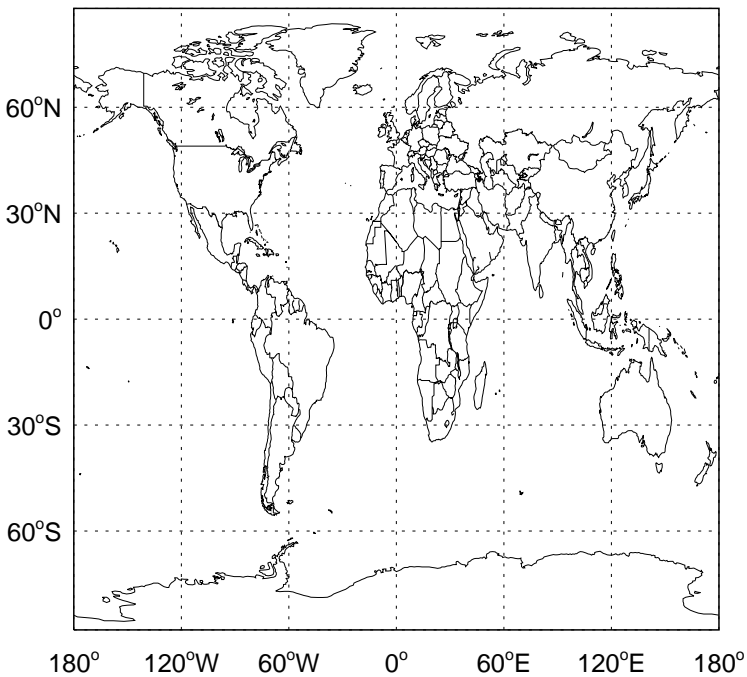
GC\_12.0.0 / v11-02f-Run1  
DST2 / Ratio @ Surface for Oct



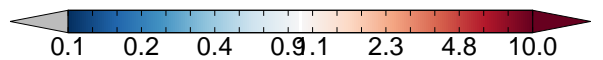
GC\_12.0.0 / v11-02f-Run1  
DST2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DST2 / Ratio @ Surface for Oct

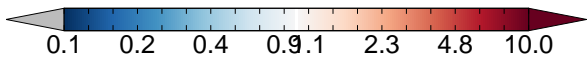


GC\_12.0.0 / v11-02e-Run1  
DST2 / Ratio @ 500 hPa for Oct

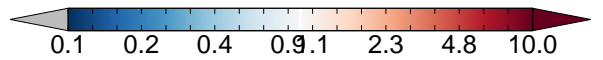


# GEOS-Chem Ratio Maps at surface and 500 hPa

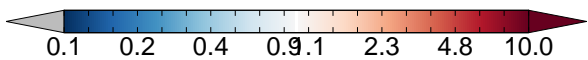
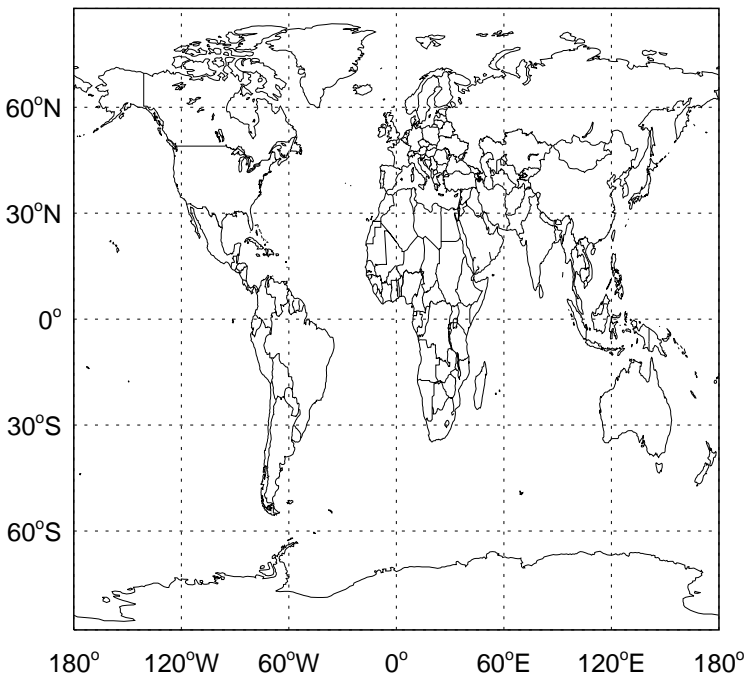
GC\_12.0.0 / v11-02f-Run1  
DST3 / Ratio @ Surface for Oct



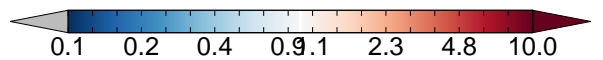
GC\_12.0.0 / v11-02f-Run1  
DST3 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DST3 / Ratio @ Surface for Oct

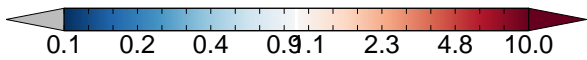


GC\_12.0.0 / v11-02e-Run1  
DST3 / Ratio @ 500 hPa for Oct

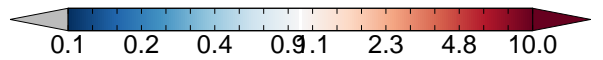


# GEOS-Chem Ratio Maps at surface and 500 hPa

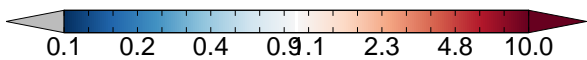
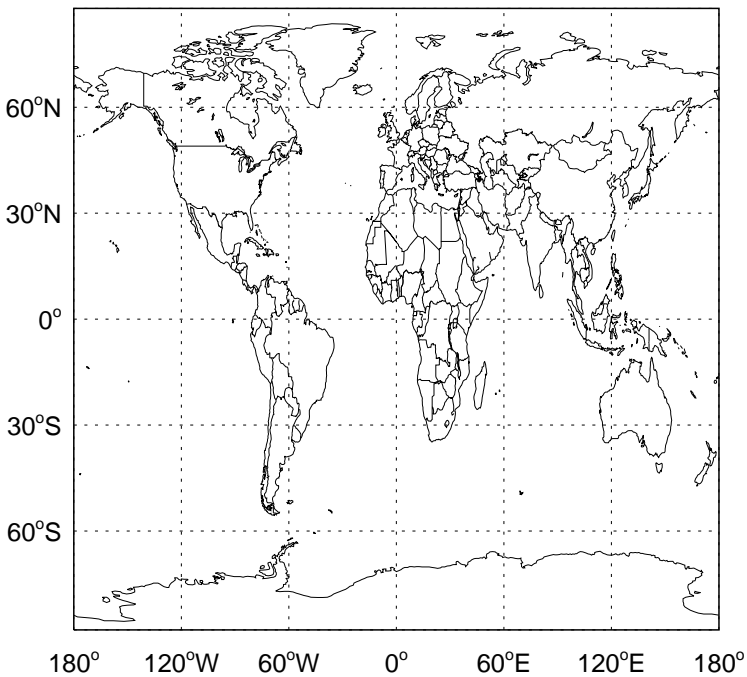
GC\_12.0.0 / v11-02f-Run1  
DST4 / Ratio @ Surface for Oct



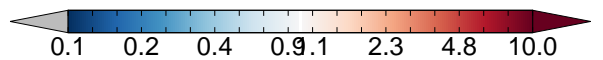
GC\_12.0.0 / v11-02f-Run1  
DST4 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DST4 / Ratio @ Surface for Oct



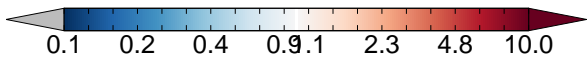
GC\_12.0.0 / v11-02e-Run1  
DST4 / Ratio @ 500 hPa for Oct



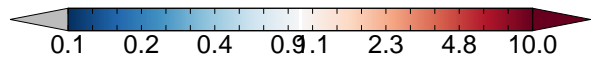


# GEOS-Chem Ratio Maps at surface and 500 hPa

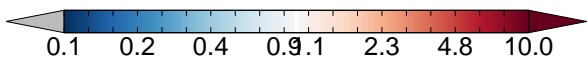
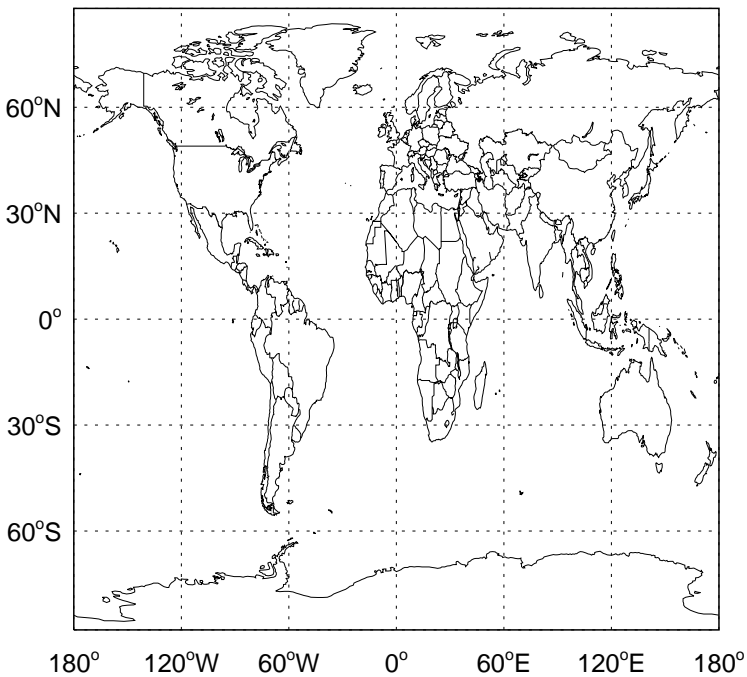
GC\_12.0.0 / v11-02f-Run1  
SALA / Ratio @ Surface for Oct



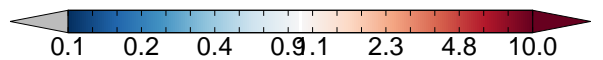
GC\_12.0.0 / v11-02f-Run1  
SALA/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SALA / Ratio @ Surface for Oct

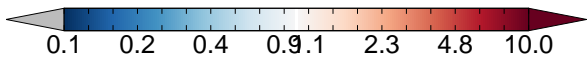
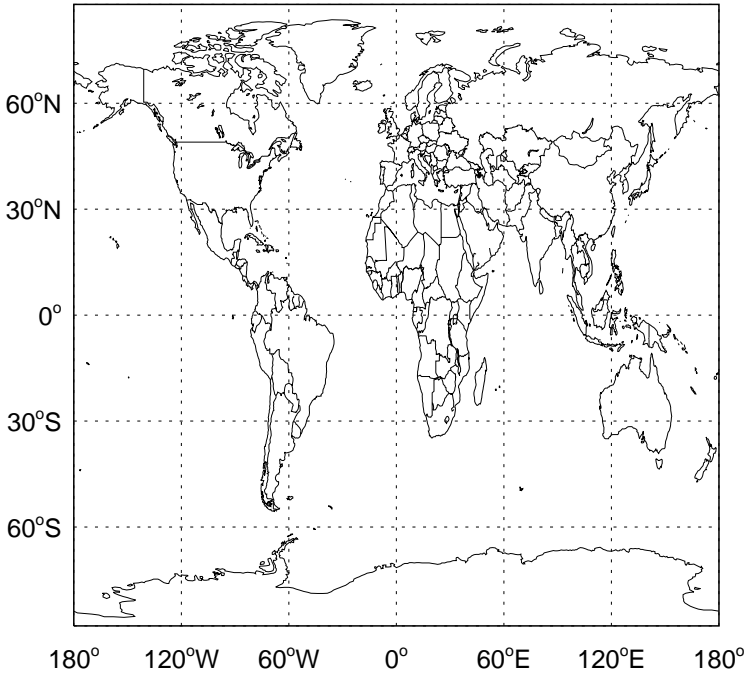


GC\_12.0.0 / v11-02e-Run1  
SALA/ Ratio @ 500 hPa for Oct

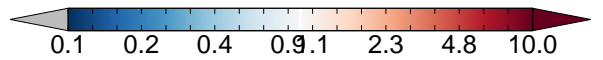


# GEOS-Chem Ratio Maps at surface and 500 hPa

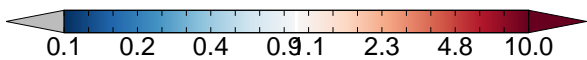
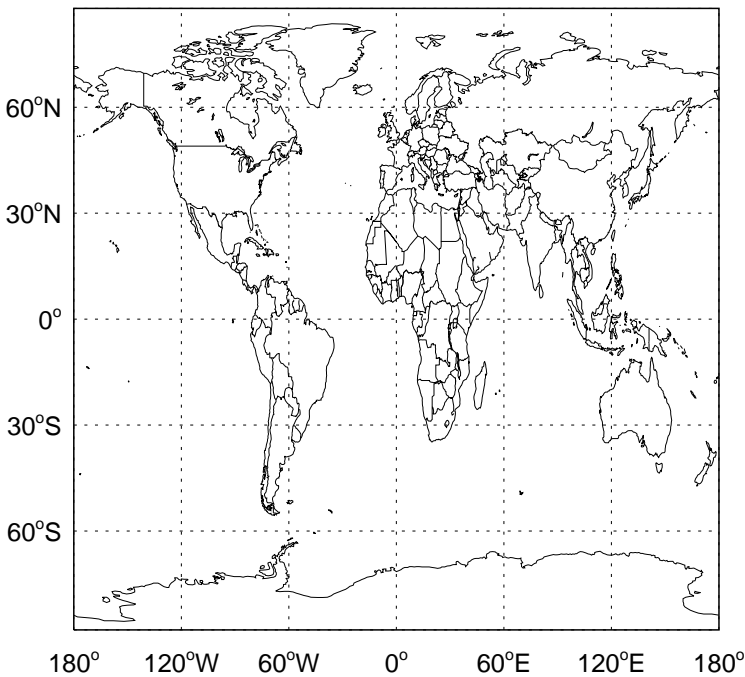
GC\_12.0.0 / v11-02f-Run1  
SALC / Ratio @ Surface for Oct



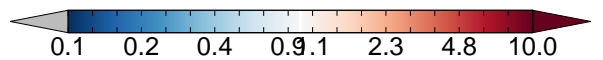
GC\_12.0.0 / v11-02f-Run1  
SALC/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SALC / Ratio @ Surface for Oct

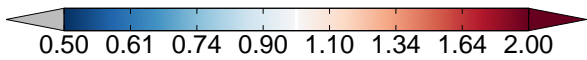
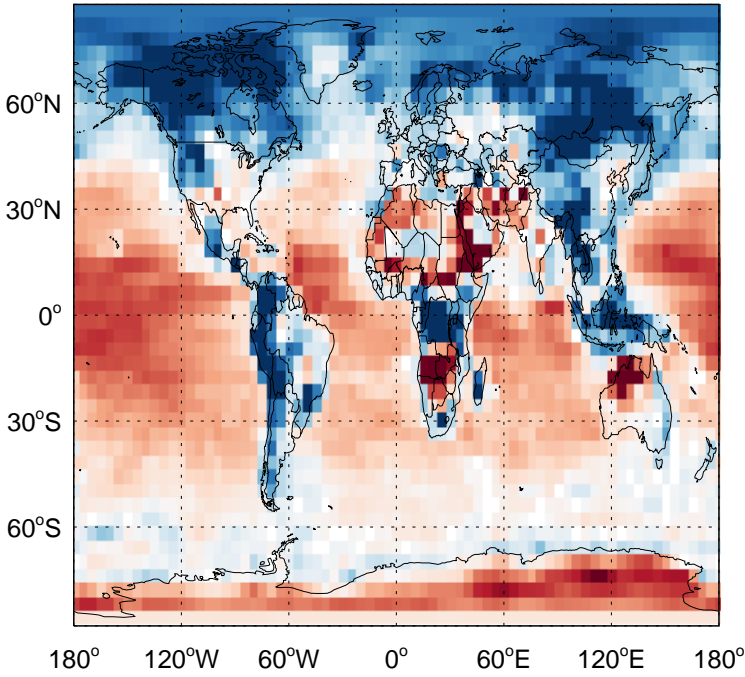


GC\_12.0.0 / v11-02e-Run1  
SALC/ Ratio @ 500 hPa for Oct

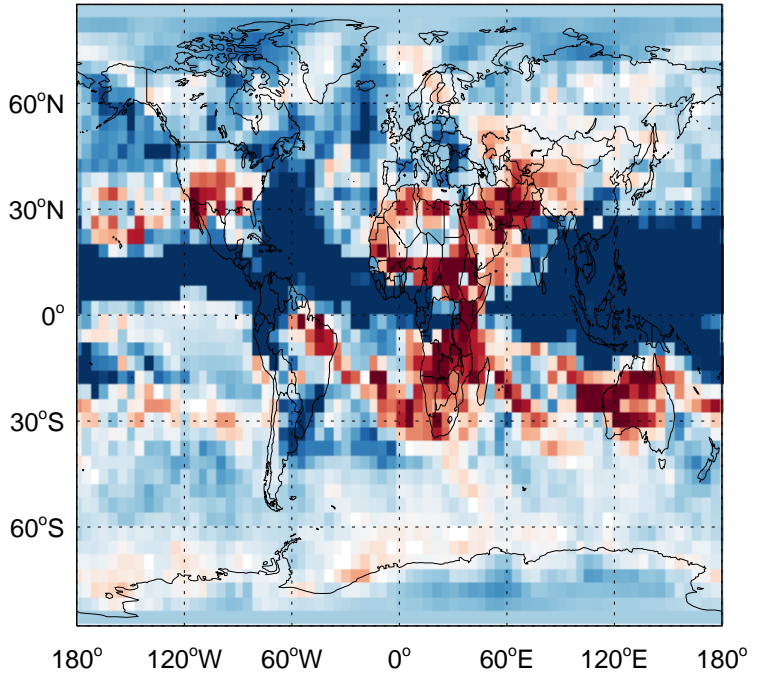


# GEOS-Chem Ratio Maps at surface and 500 hPa

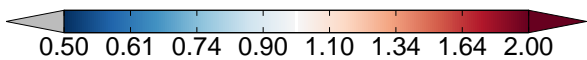
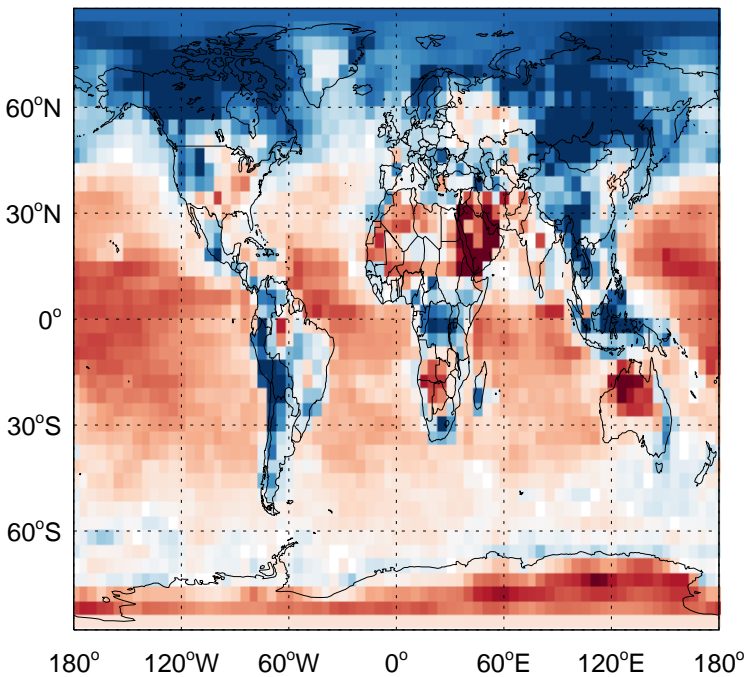
GC\_12.0.0 / v11-02f-Run1  
Br2 / Ratio @ Surface for Oct



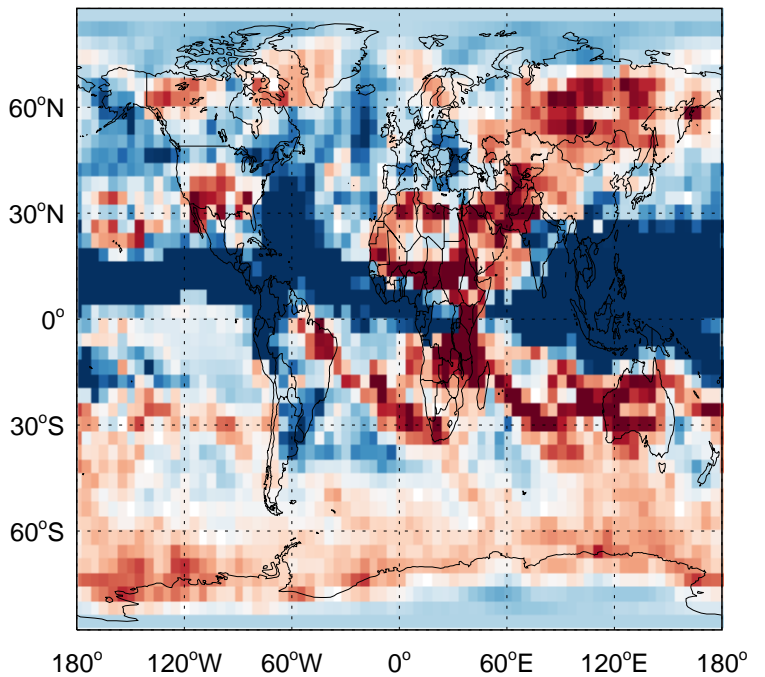
GC\_12.0.0 / v11-02f-Run1  
Br2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
Br2 / Ratio @ Surface for Oct



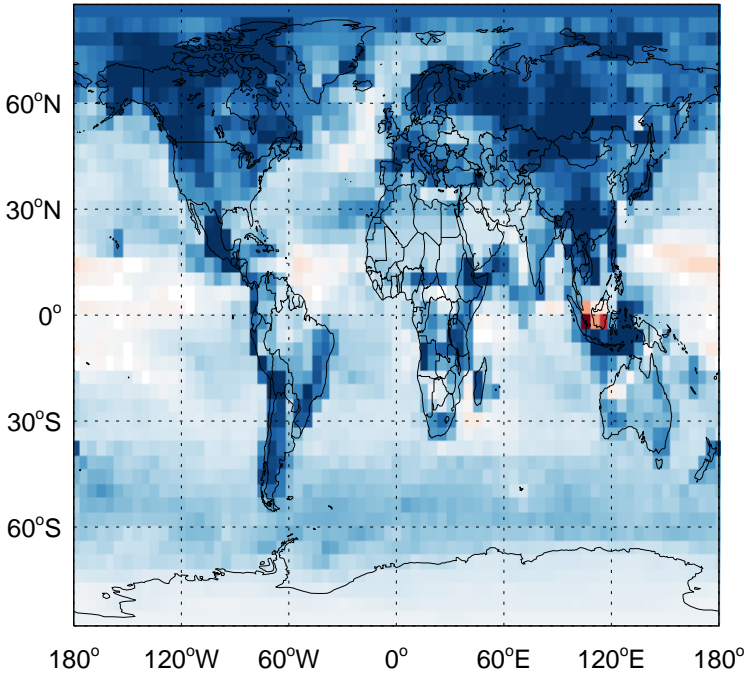
GC\_12.0.0 / v11-02e-Run1  
Br2 / Ratio @ 500 hPa for Oct



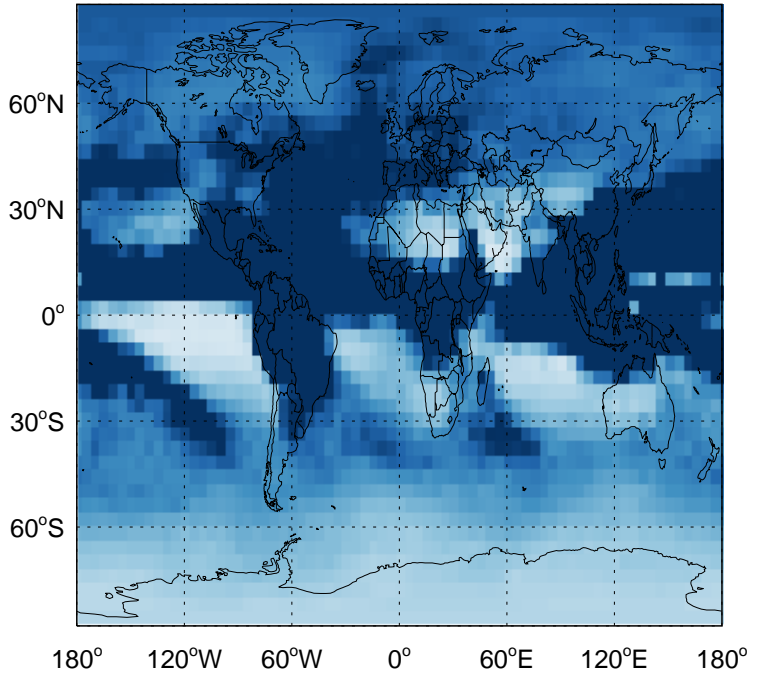


# GEOS-Chem Ratio Maps at surface and 500 hPa

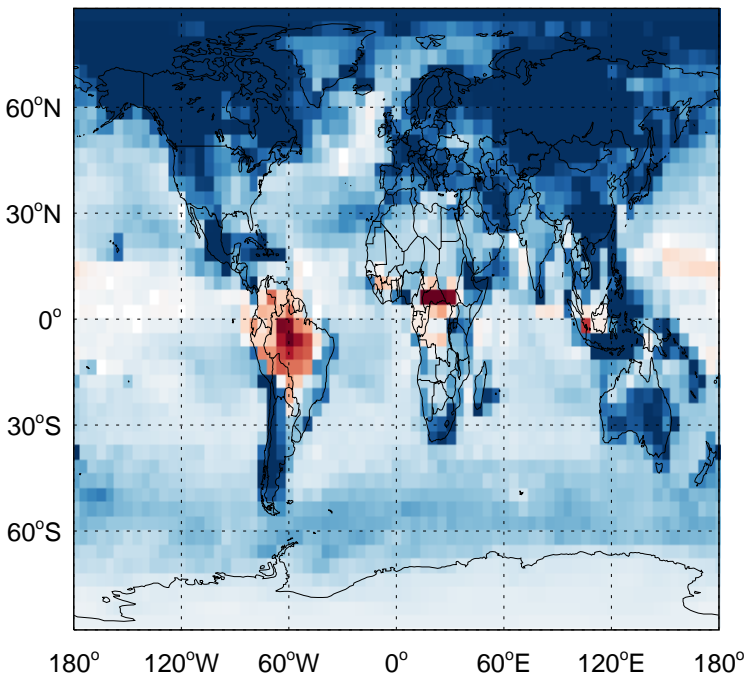
GC\_12.0.0 / v11-02f-Run1  
Br / Ratio @ Surface for Oct



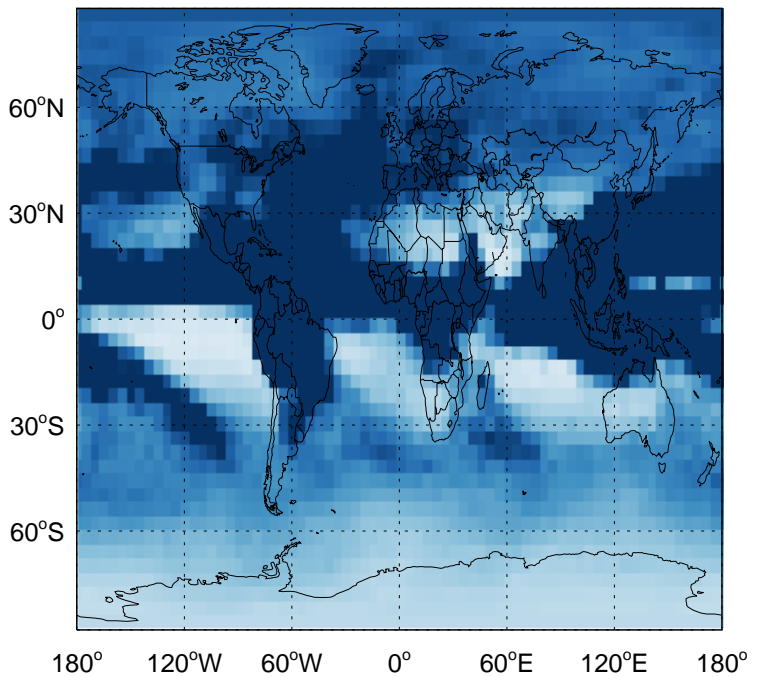
GC\_12.0.0 / v11-02f-Run1  
Br / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
Br / Ratio @ Surface for Oct

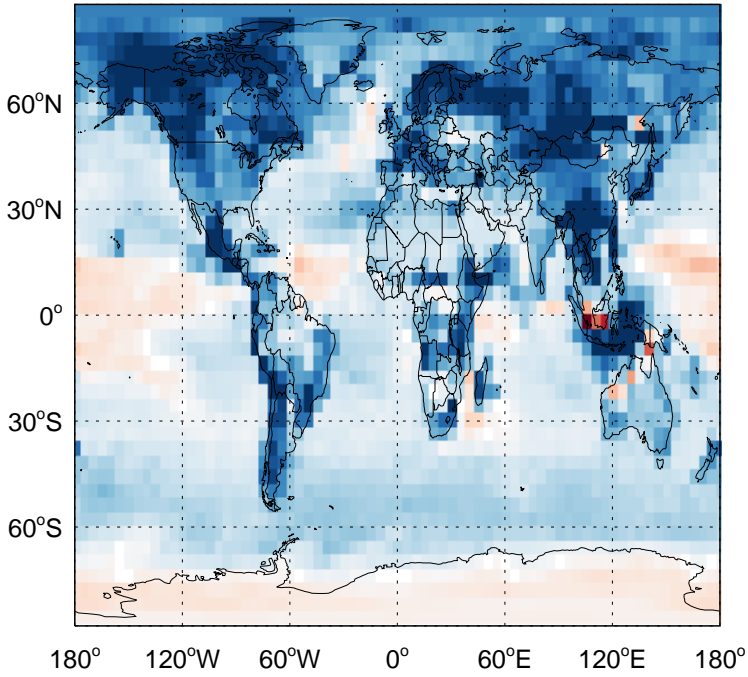


GC\_12.0.0 / v11-02e-Run1  
Br / Ratio @ 500 hPa for Oct

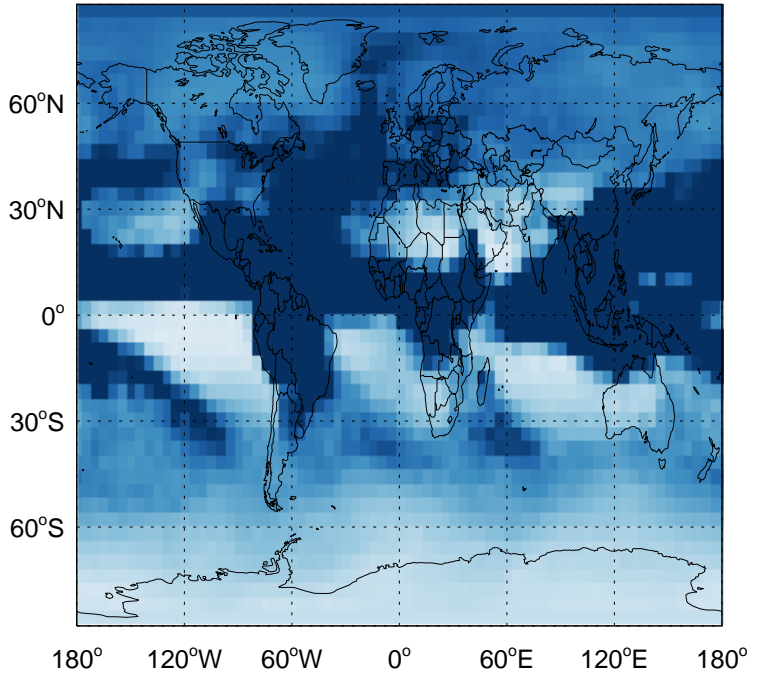


# GEOS-Chem Ratio Maps at surface and 500 hPa

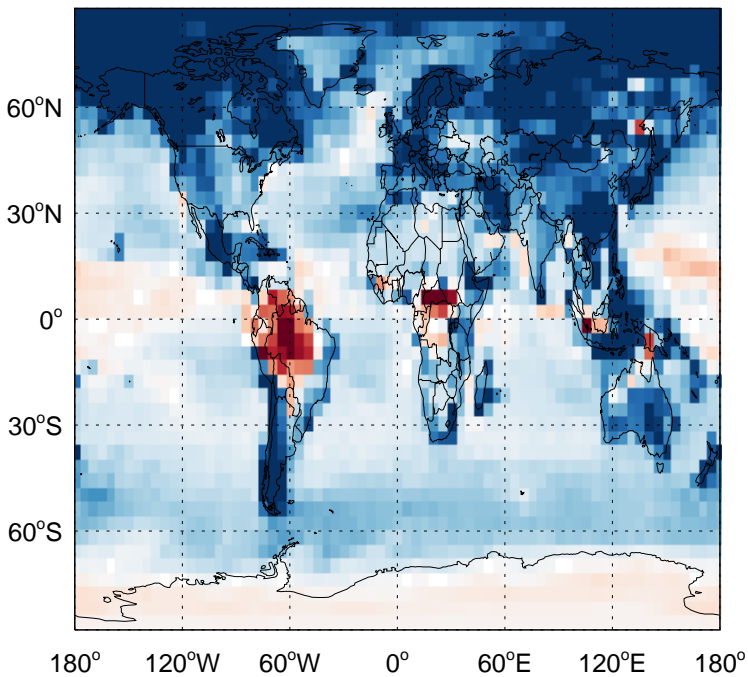
GC\_12.0.0 / v11-02f-Run1  
BrO / Ratio @ Surface for Oct



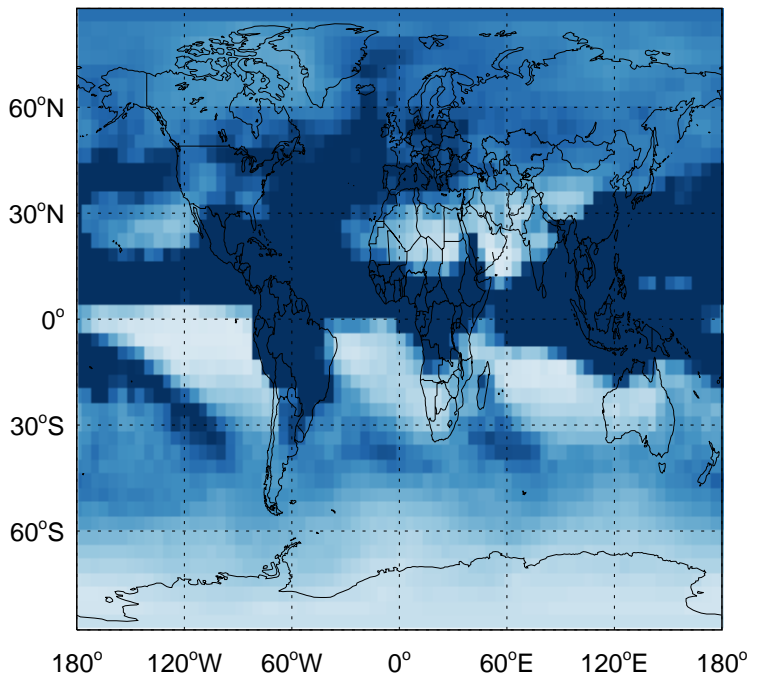
GC\_12.0.0 / v11-02f-Run1  
BrO / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BrO / Ratio @ Surface for Oct

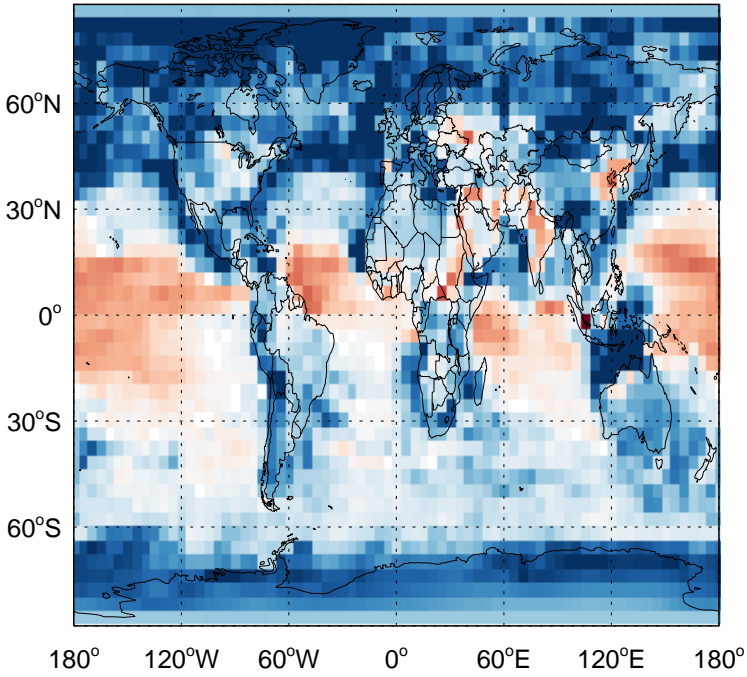


GC\_12.0.0 / v11-02e-Run1  
BrO / Ratio @ 500 hPa for Oct

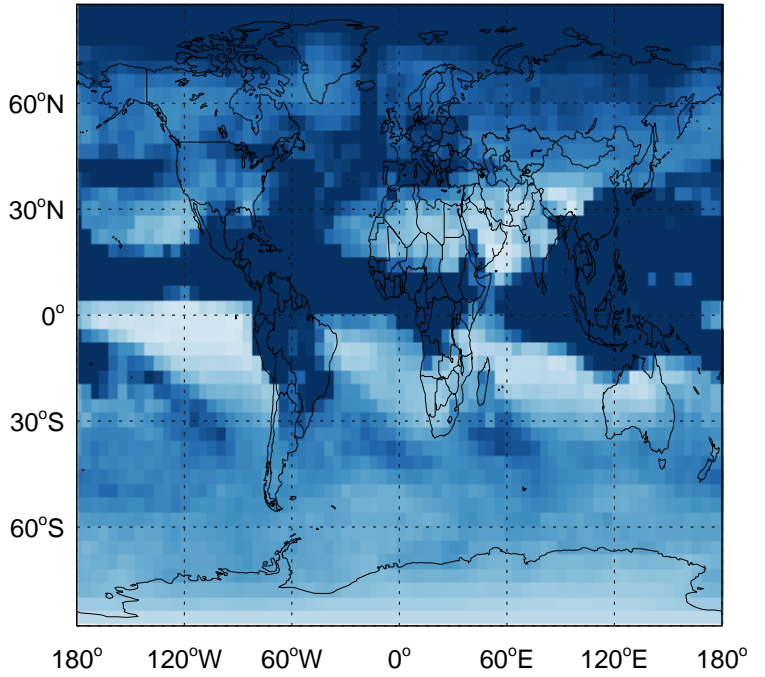


# GEOS-Chem Ratio Maps at surface and 500 hPa

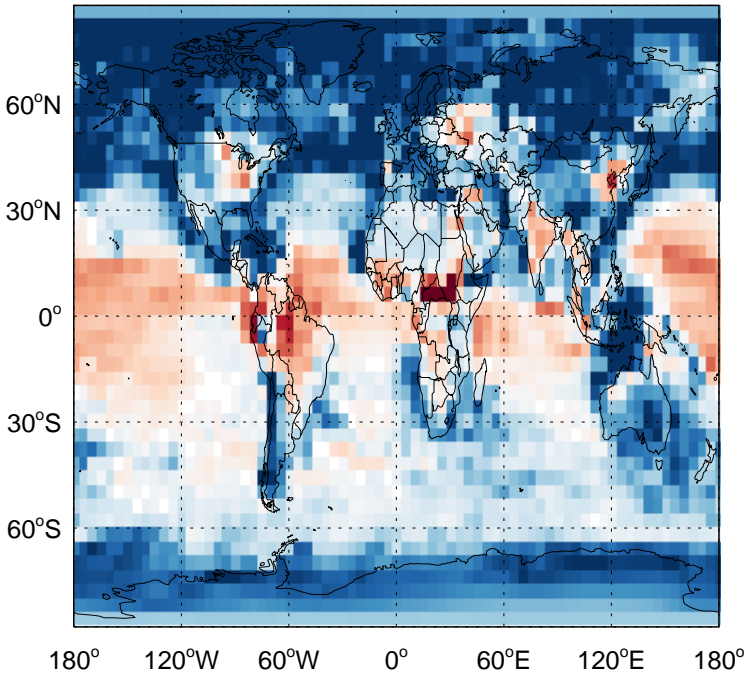
GC\_12.0.0 / v11-02f-Run1  
HOBr / Ratio @ Surface for Oct



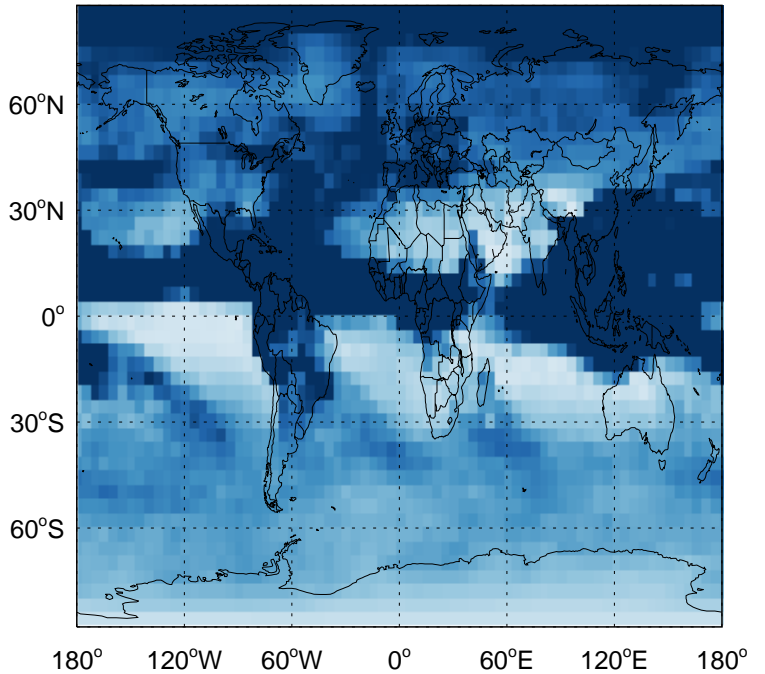
GC\_12.0.0 / v11-02f-Run1  
HOBr / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HOBr / Ratio @ Surface for Oct



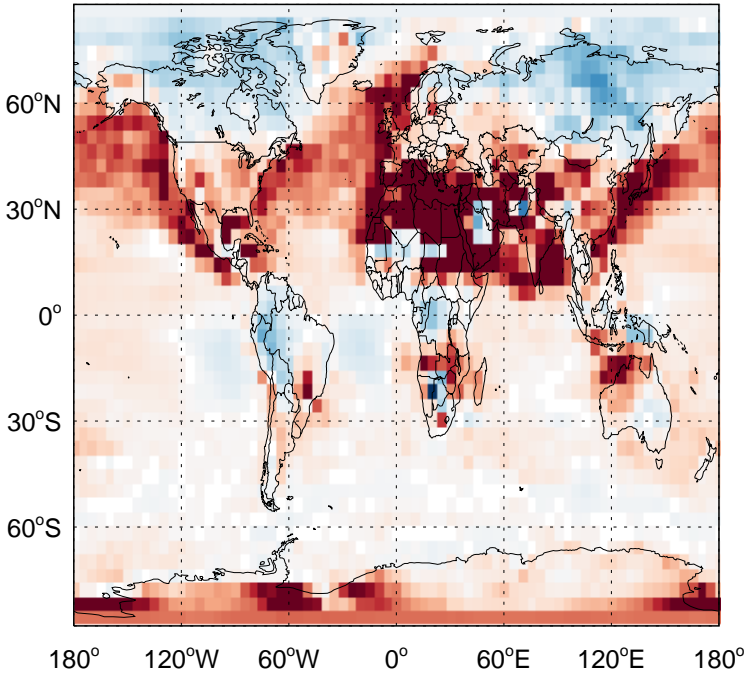
GC\_12.0.0 / v11-02e-Run1  
HOBr / Ratio @ 500 hPa for Oct



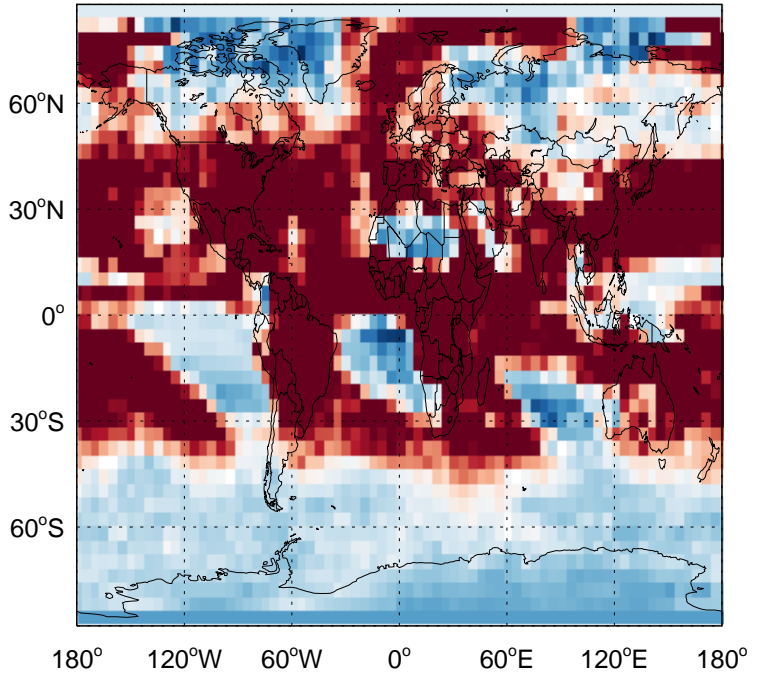


# GEOS-Chem Ratio Maps at surface and 500 hPa

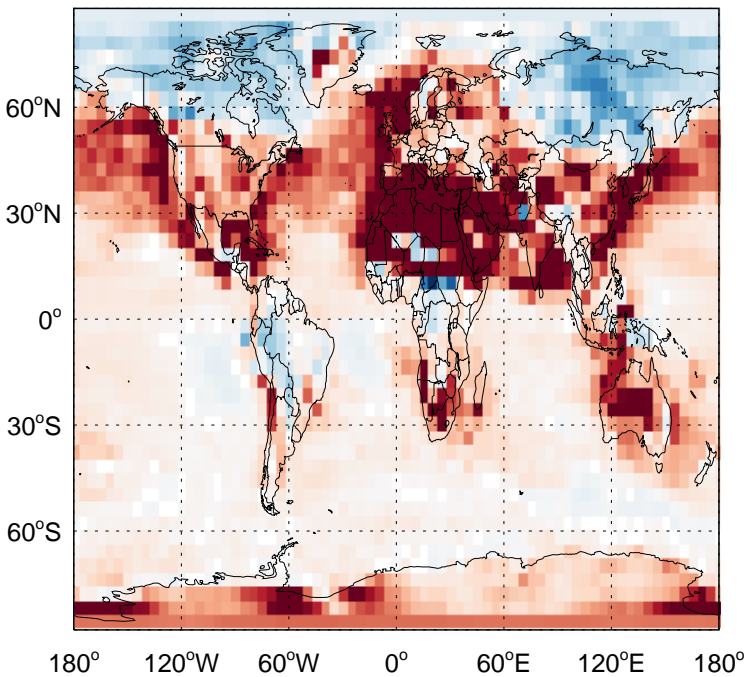
GC\_12.0.0 / v11-02f-Run1  
HBr / Ratio @ Surface for Oct



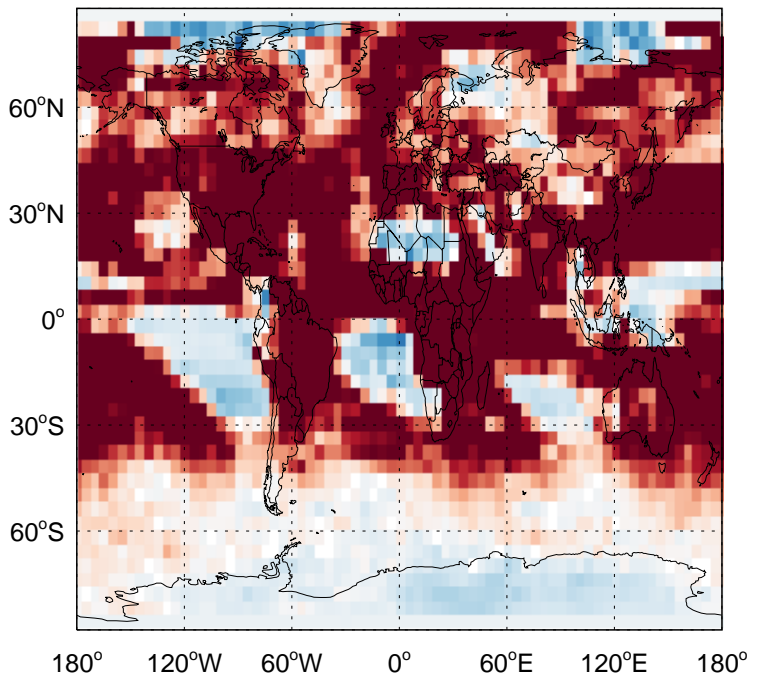
GC\_12.0.0 / v11-02f-Run1  
HBr/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HBr / Ratio @ Surface for Oct

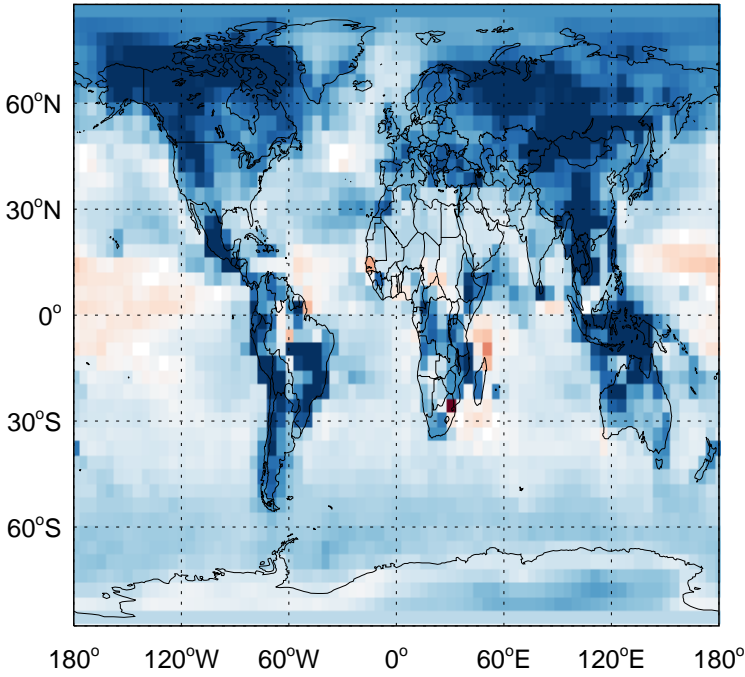


GC\_12.0.0 / v11-02e-Run1  
HBr/ Ratio @ 500 hPa for Oct

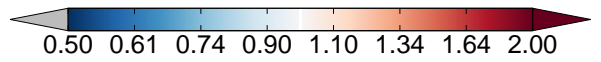
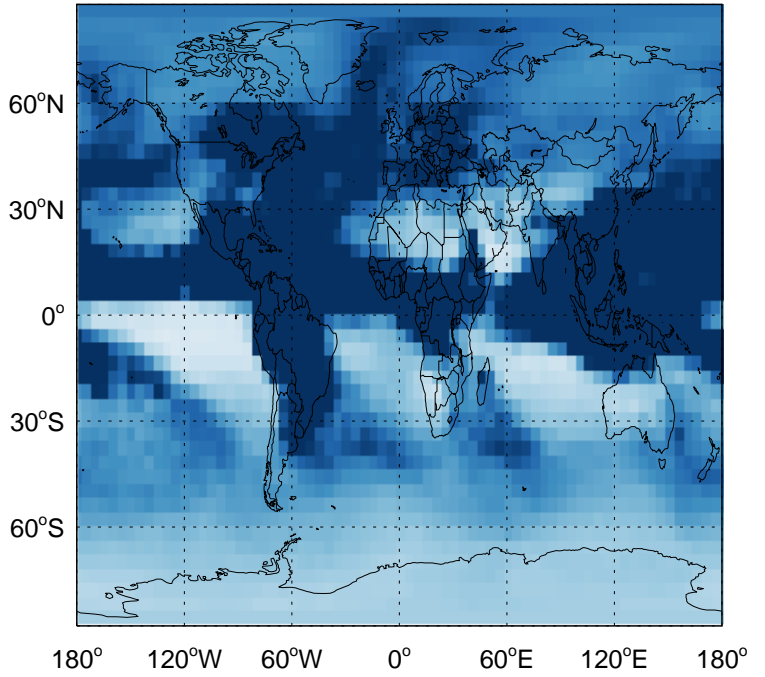


# GEOS-Chem Ratio Maps at surface and 500 hPa

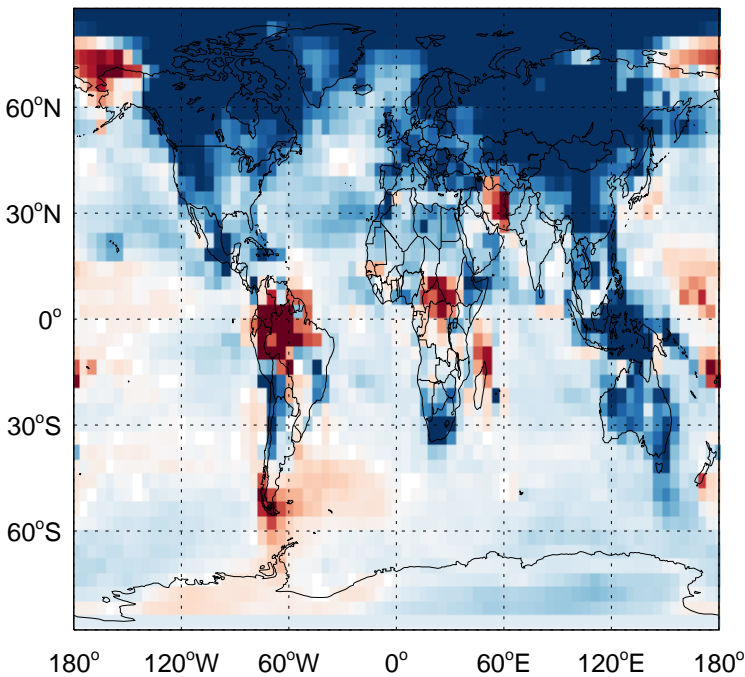
GC\_12.0.0 / v11-02f-Run1  
BrNO<sub>2</sub> / Ratio @ Surface for Oct



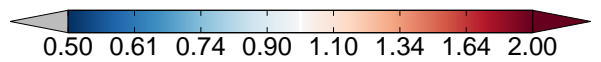
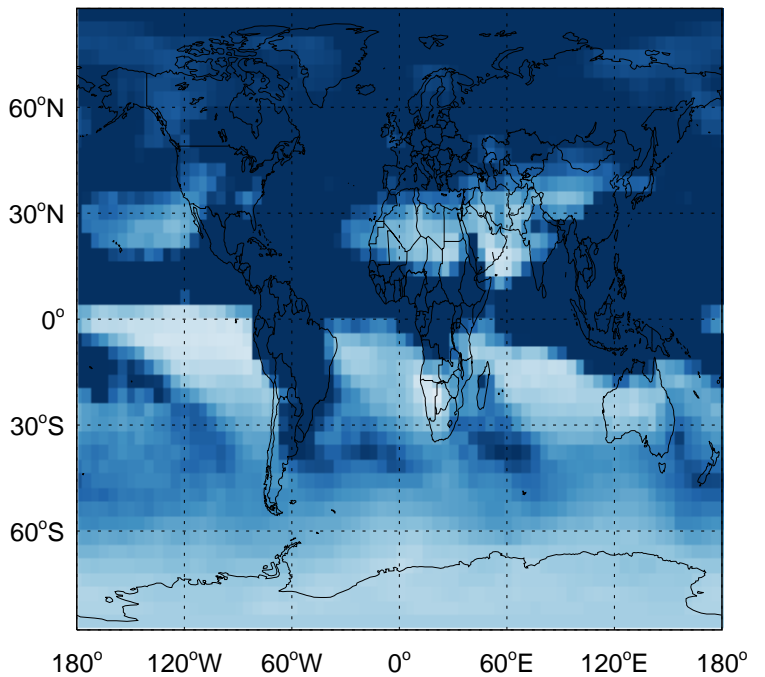
GC\_12.0.0 / v11-02f-Run1  
BrNO<sub>2</sub> / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BrNO<sub>2</sub> / Ratio @ Surface for Oct

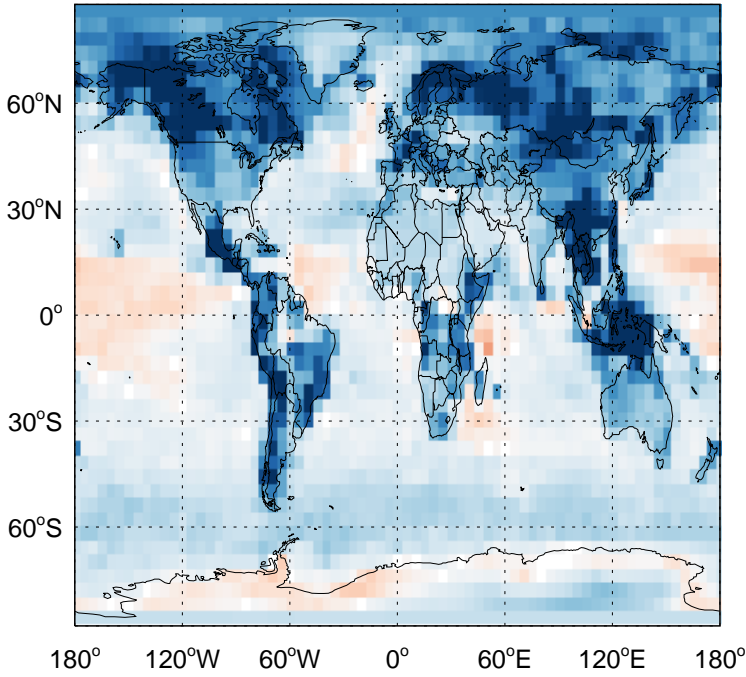


GC\_12.0.0 / v11-02e-Run1  
BrNO<sub>2</sub> / Ratio @ 500 hPa for Oct

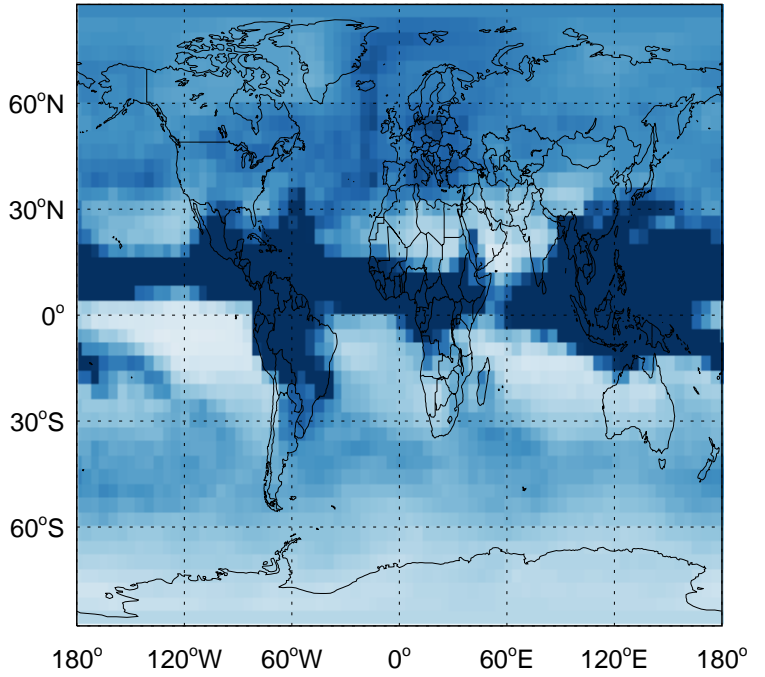


# GEOS-Chem Ratio Maps at surface and 500 hPa

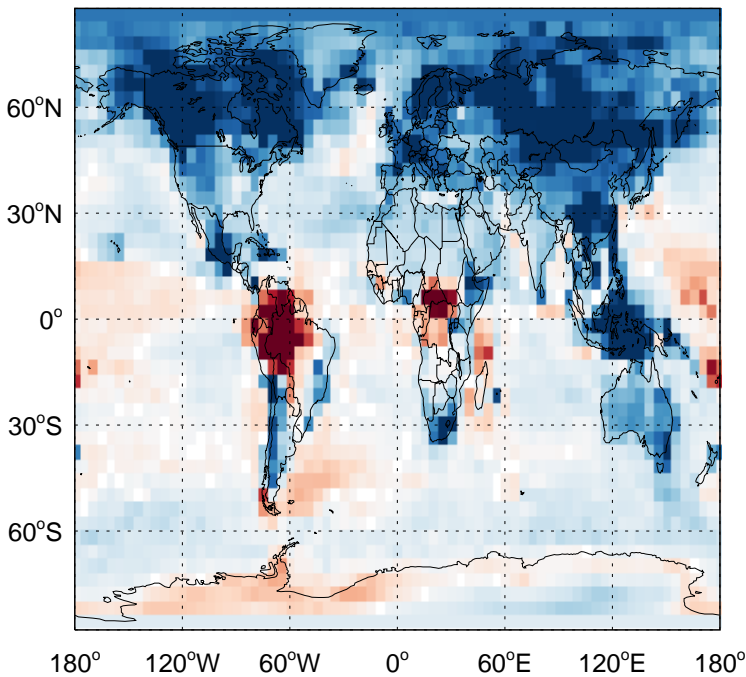
GC\_12.0.0 / v11-02f-Run1  
BrNO3 / Ratio @ Surface for Oct



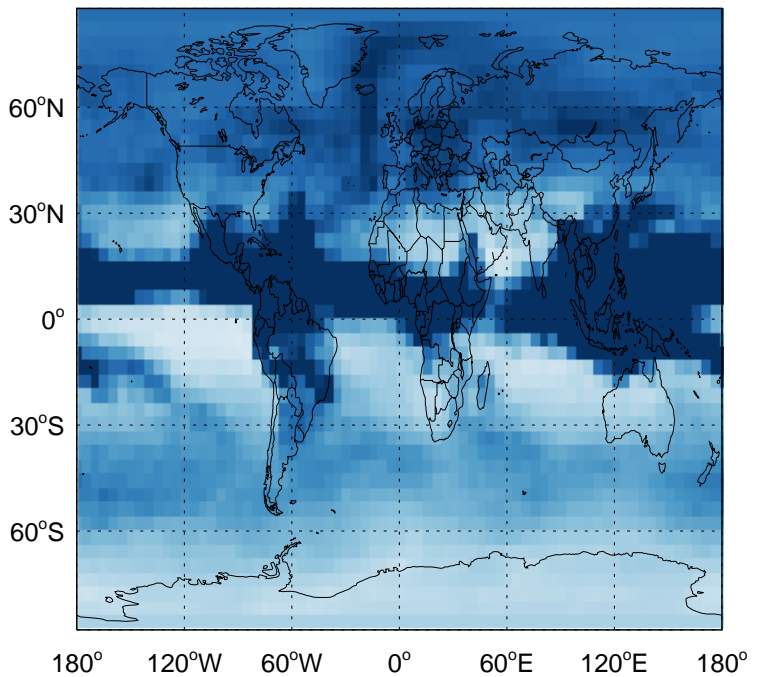
GC\_12.0.0 / v11-02f-Run1  
BrNO3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BrNO3 / Ratio @ Surface for Oct



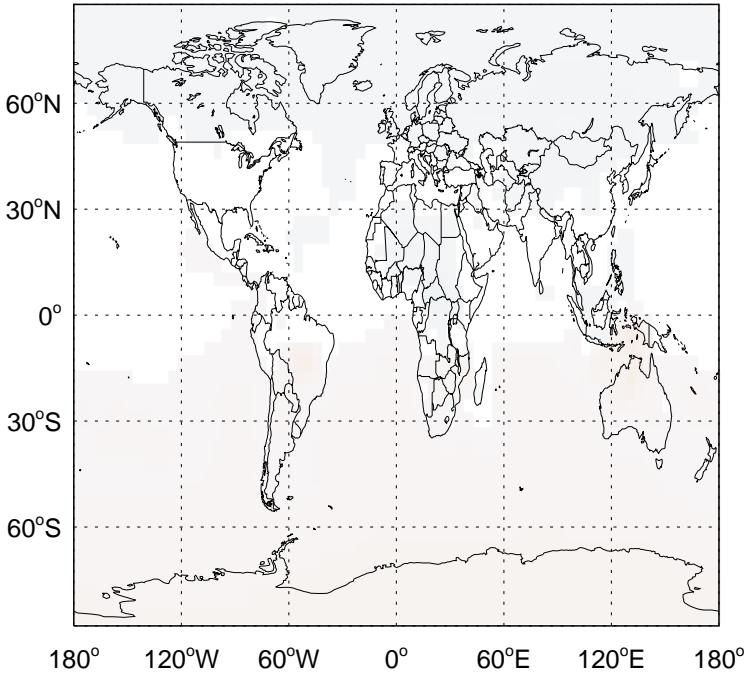
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BrNO3/ Ratio @ 500 hPa for Oct



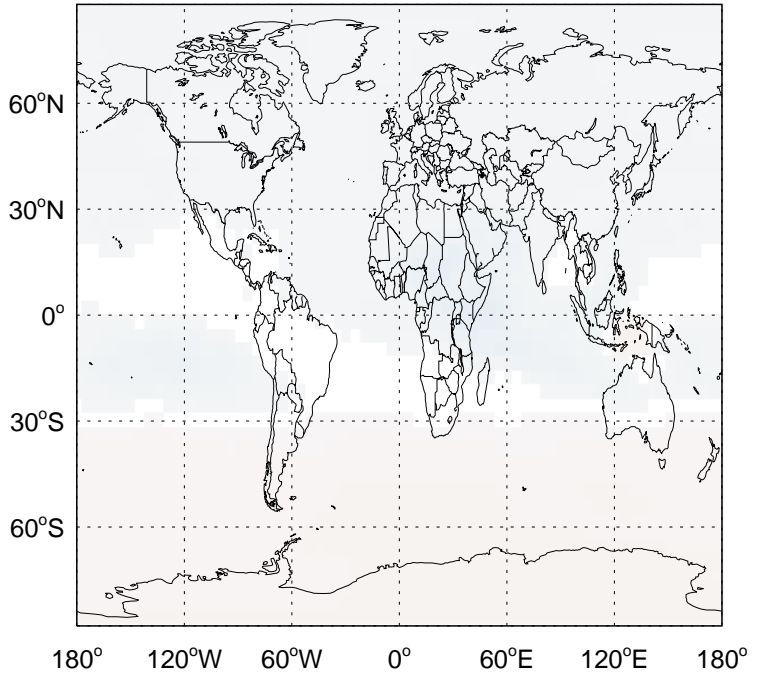


# GEOS-Chem Ratio Maps at surface and 500 hPa

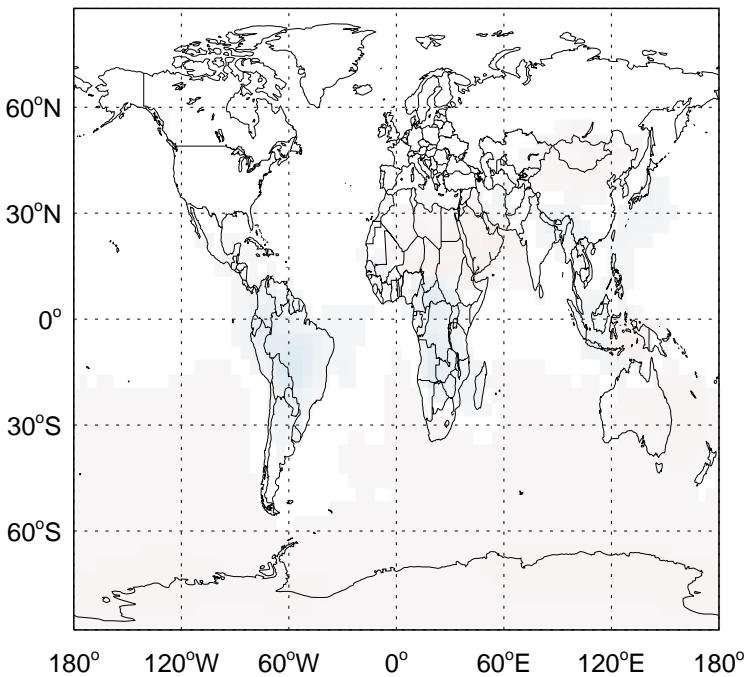
GC\_12.0.0 / v11-02f-Run1  
CHBr3 / Ratio @ Surface for Oct



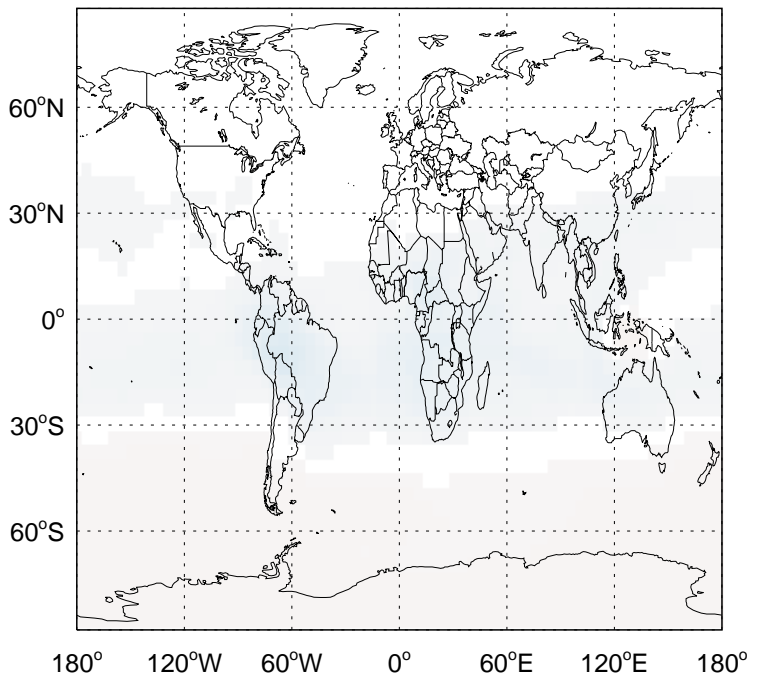
GC\_12.0.0 / v11-02f-Run1  
CHBr3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CHBr3 / Ratio @ Surface for Oct

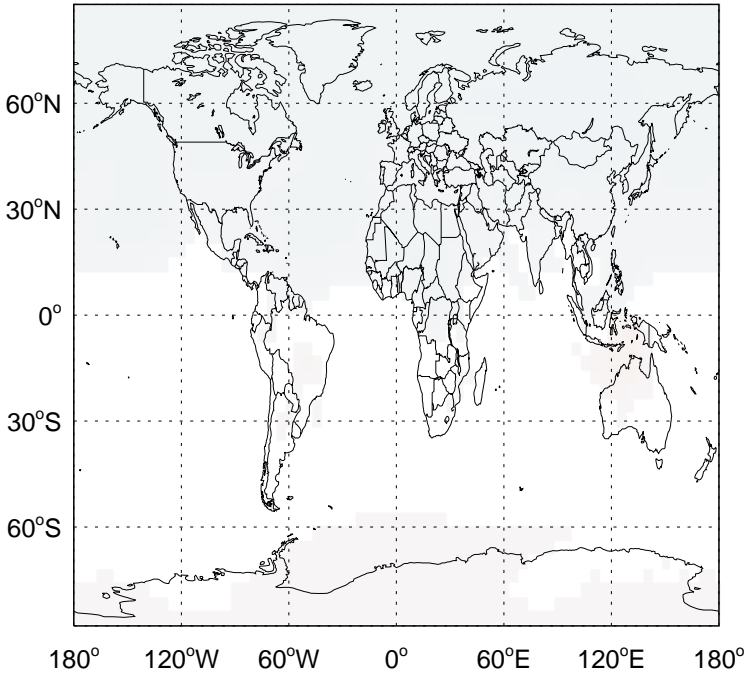


GC\_12.0.0 / v11-02e-Run1  
CHBr3/ Ratio @ 500 hPa for Oct

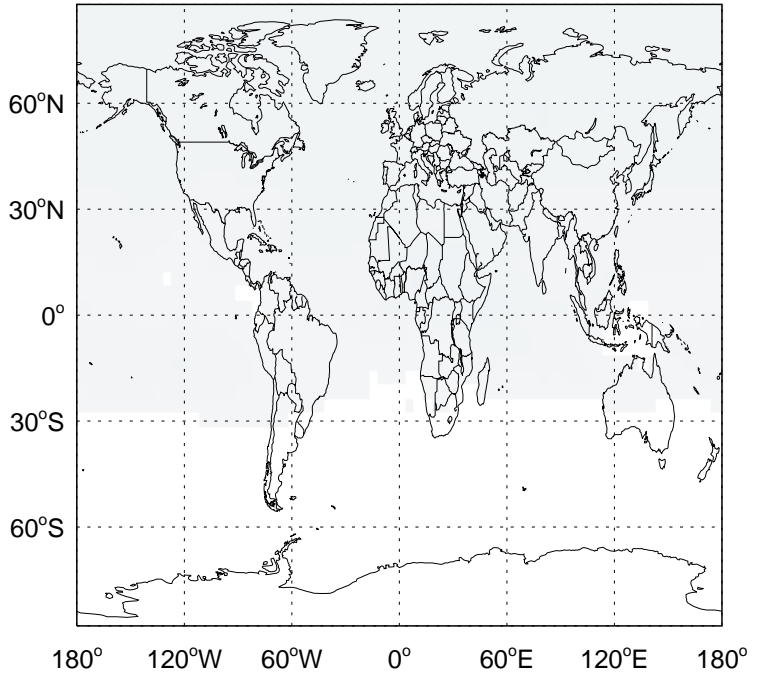


# GEOS-Chem Ratio Maps at surface and 500 hPa

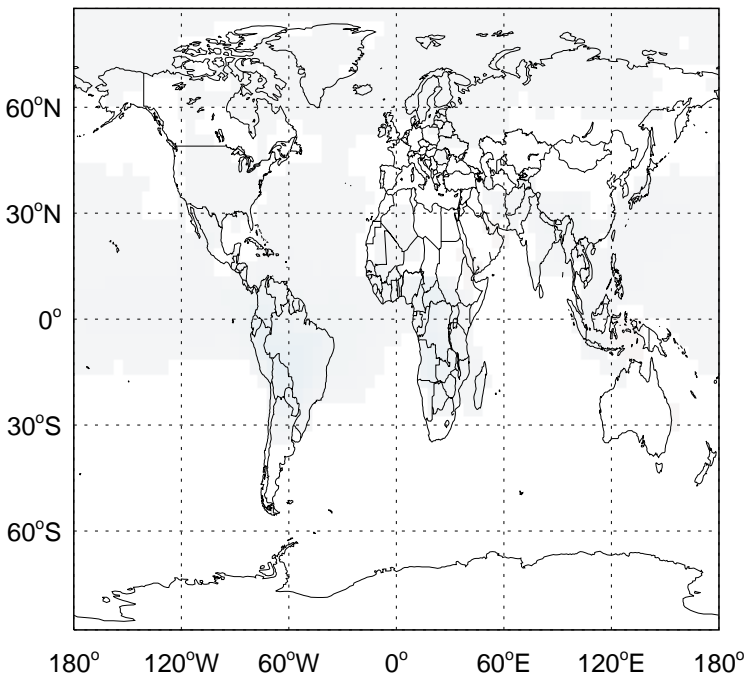
GC\_12.0.0 / v11-02f-Run1  
CH2Br2 / Ratio @ Surface for Oct



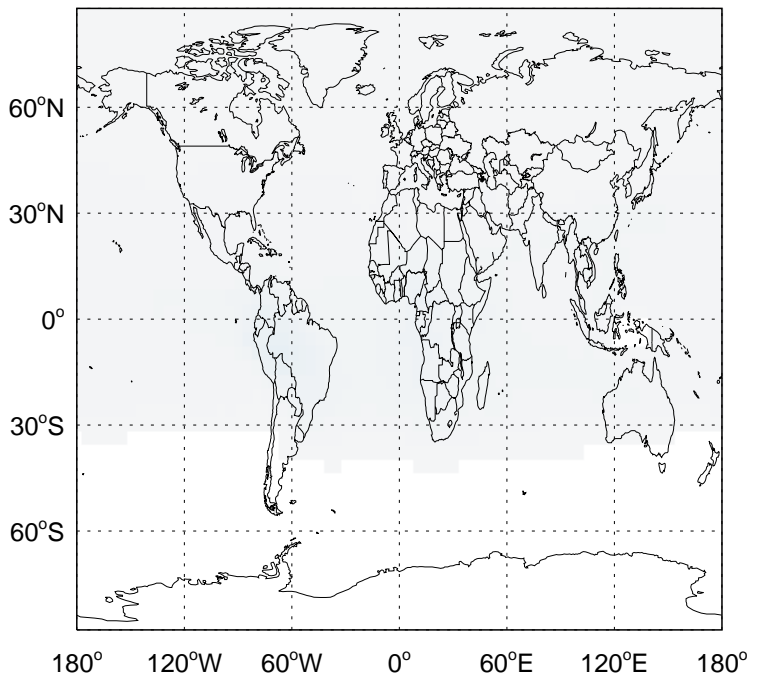
GC\_12.0.0 / v11-02f-Run1  
CH2Br2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH2Br2 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
CH2Br2 / Ratio @ 500 hPa for Oct

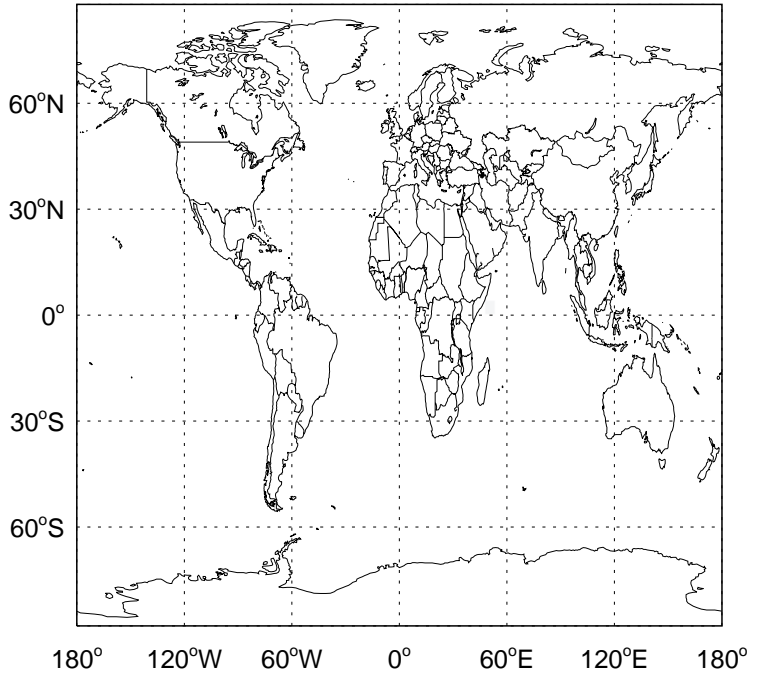


# GEOS-Chem Ratio Maps at surface and 500 hPa

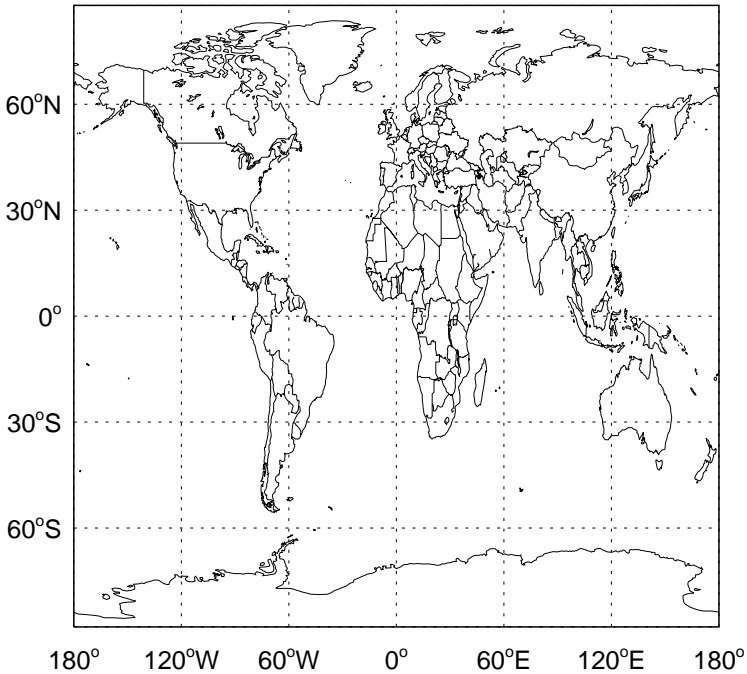
GC\_12.0.0 / v11-02f-Run1  
CH3Br / Ratio @ Surface for Oct



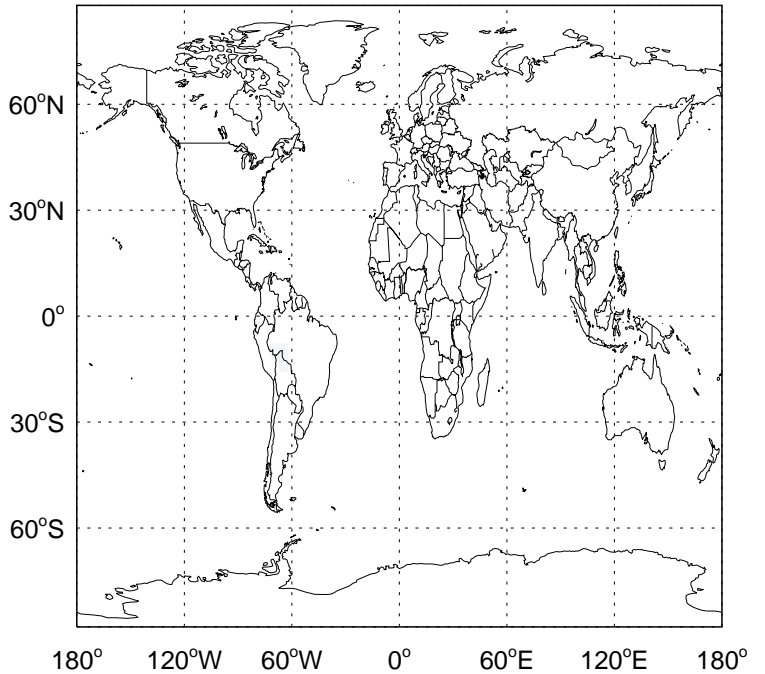
GC\_12.0.0 / v11-02f-Run1  
CH3Br/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH3Br / Ratio @ Surface for Oct



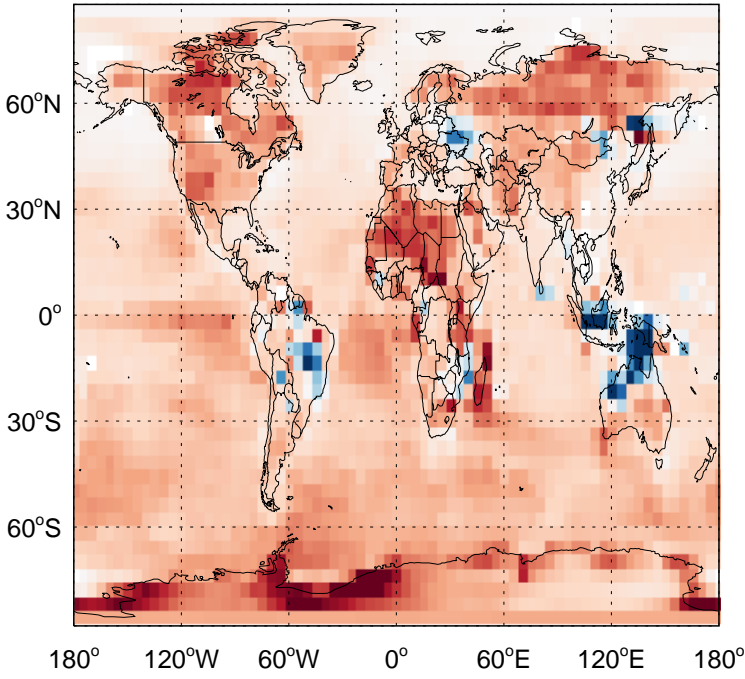
GC\_12.0.0 / v11-02e-Run1  
CH3Br/ Ratio @ 500 hPa for Oct



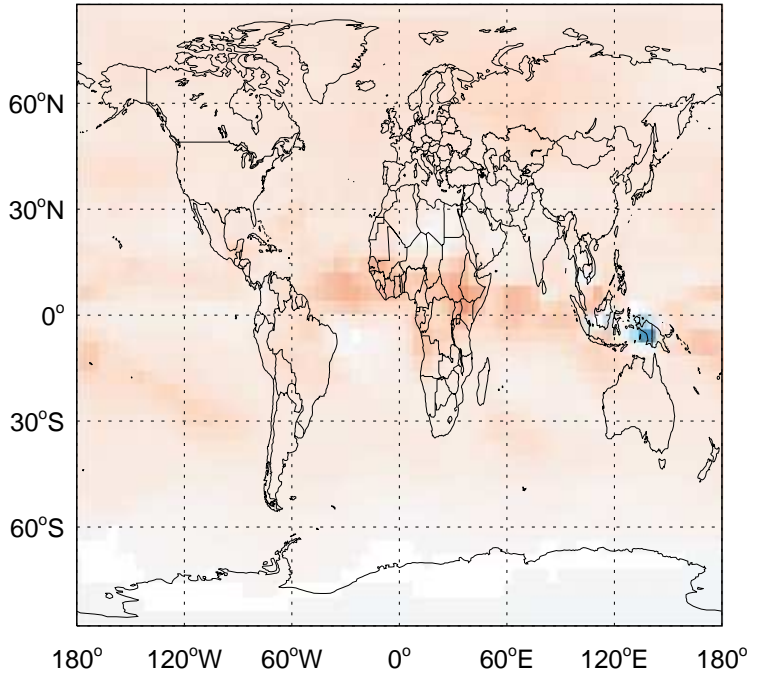


# GEOS-Chem Ratio Maps at surface and 500 hPa

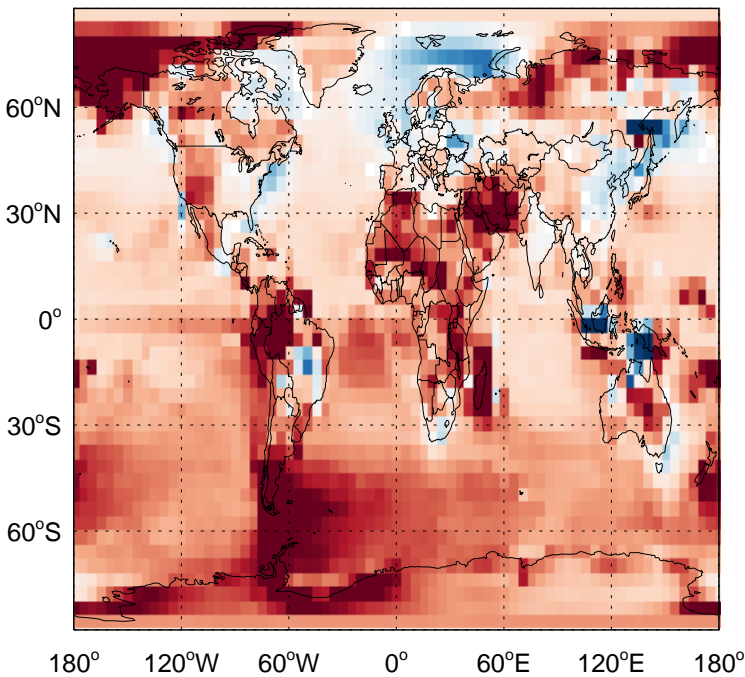
GC\_12.0.0 / v11-02f-Run1  
MPN / Ratio @ Surface for Oct



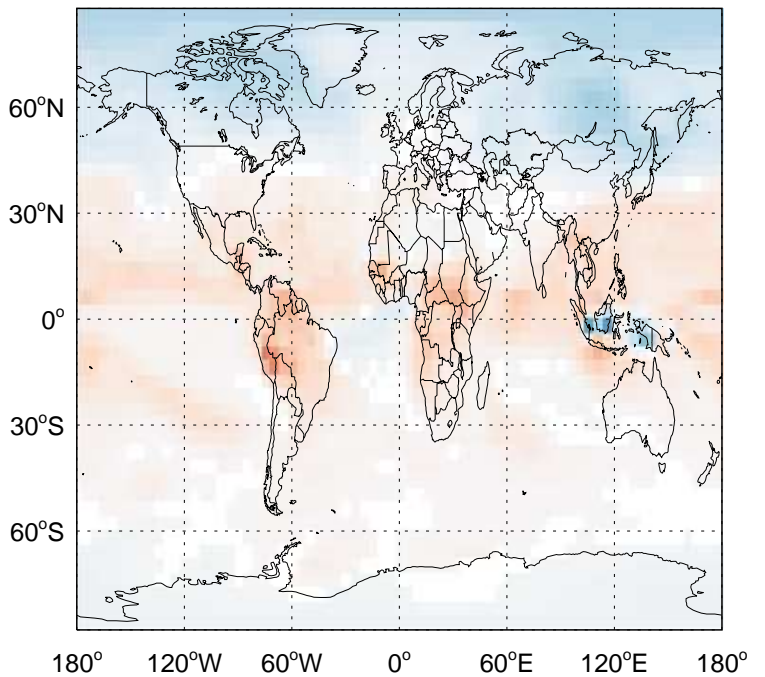
GC\_12.0.0 / v11-02f-Run1  
MPN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MPN / Ratio @ Surface for Oct

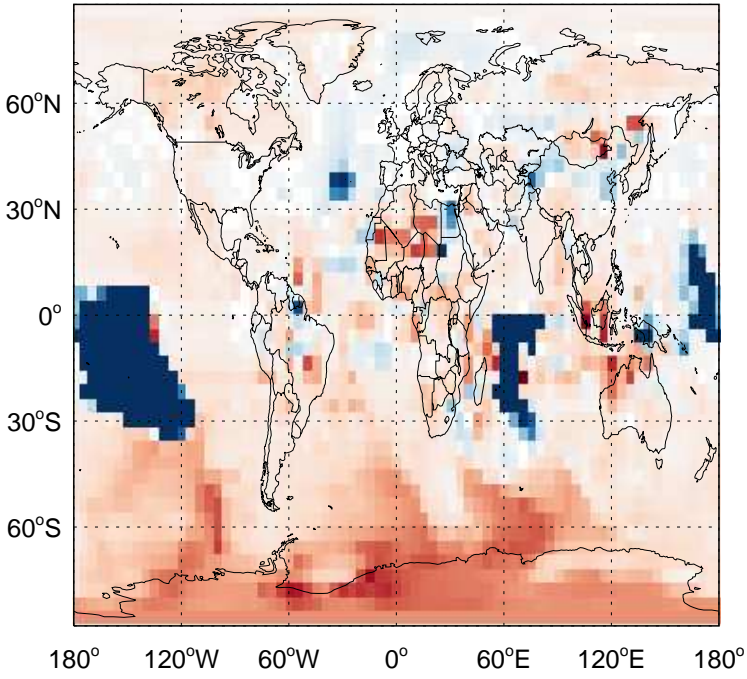


GC\_12.0.0 / v11-02e-Run1  
MPN/ Ratio @ 500 hPa for Oct

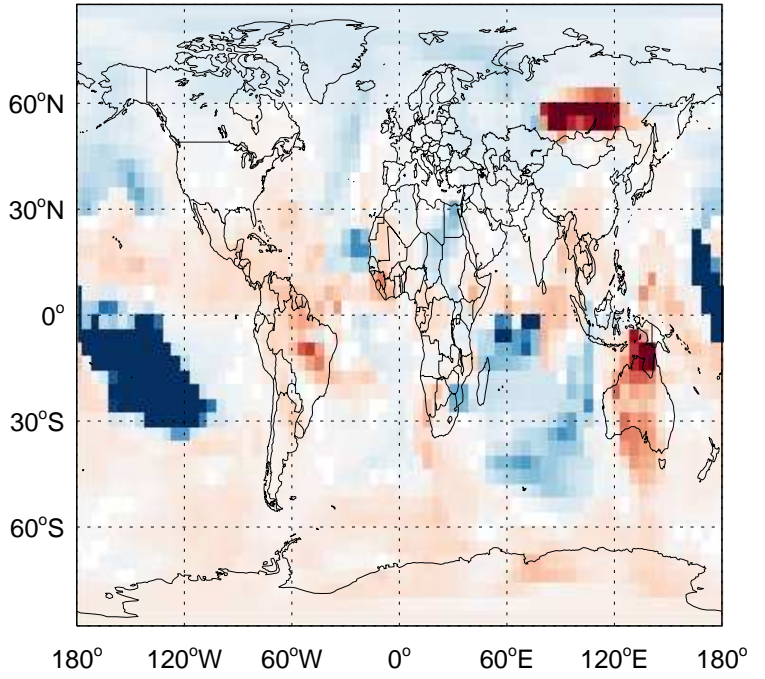


# GEOS-Chem Ratio Maps at surface and 500 hPa

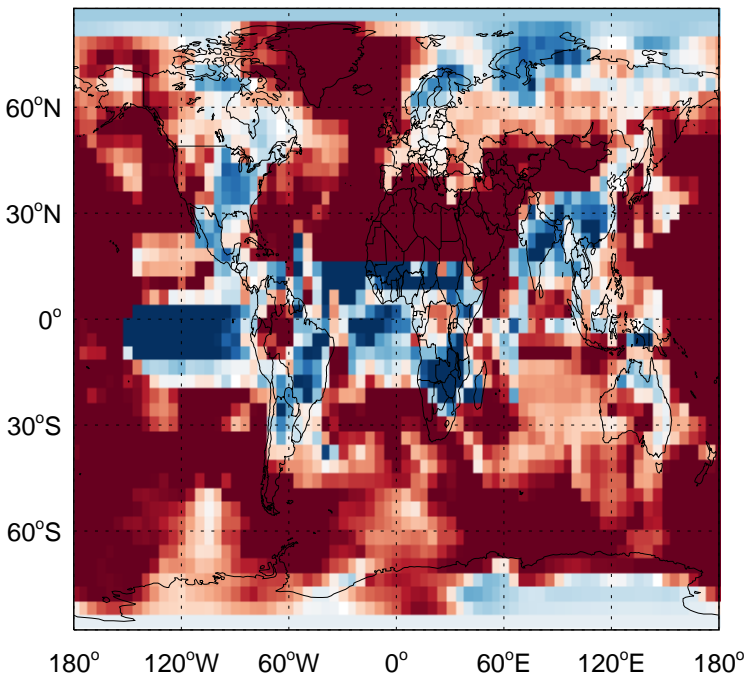
GC\_12.0.0 / v11-02f-Run1  
ISOPND / Ratio @ Surface for Oct



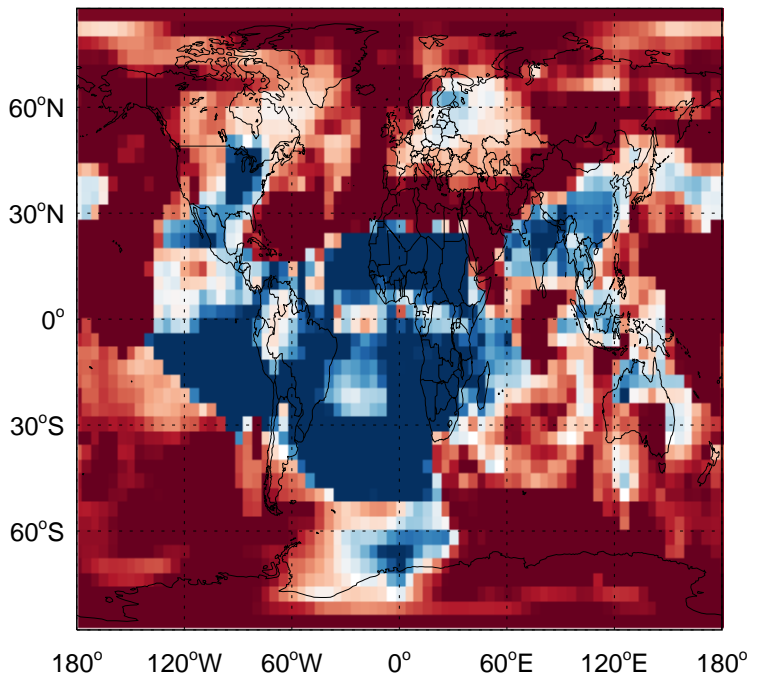
GC\_12.0.0 / v11-02f-Run1  
ISOPND/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOPND / Ratio @ Surface for Oct

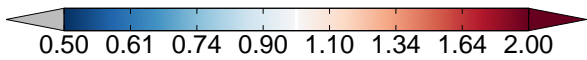
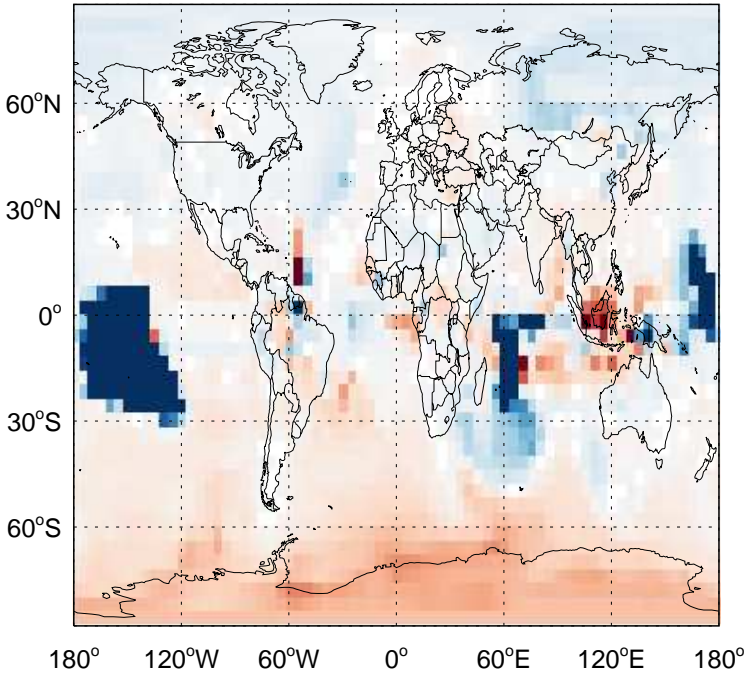


GC\_12.0.0 / v11-02e-Run1  
ISOPND/ Ratio @ 500 hPa for Oct

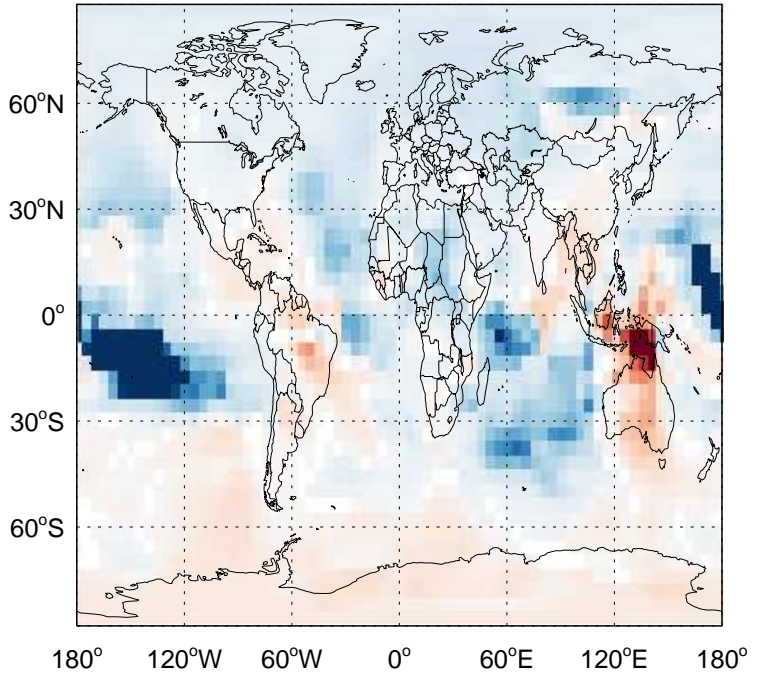


# GEOS-Chem Ratio Maps at surface and 500 hPa

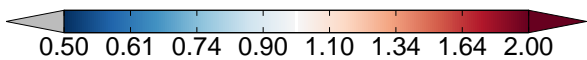
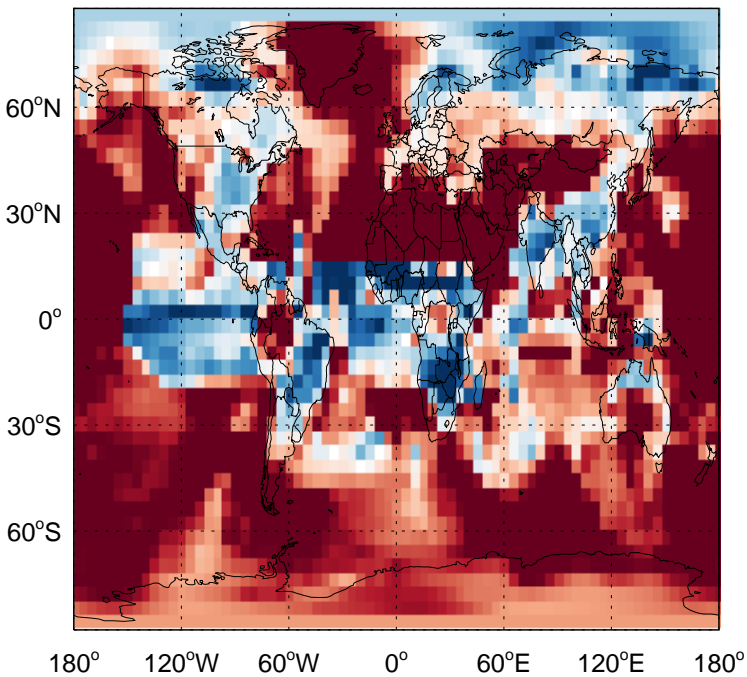
GC\_12.0.0 / v11-02f-Run1  
ISOPNB / Ratio @ Surface for Oct



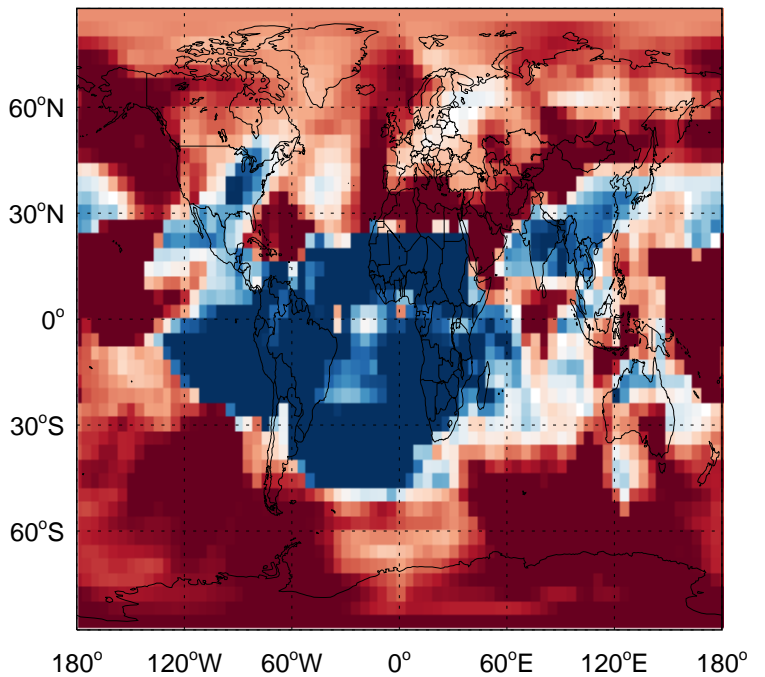
GC\_12.0.0 / v11-02f-Run1  
ISOPNB/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOPNB / Ratio @ Surface for Oct



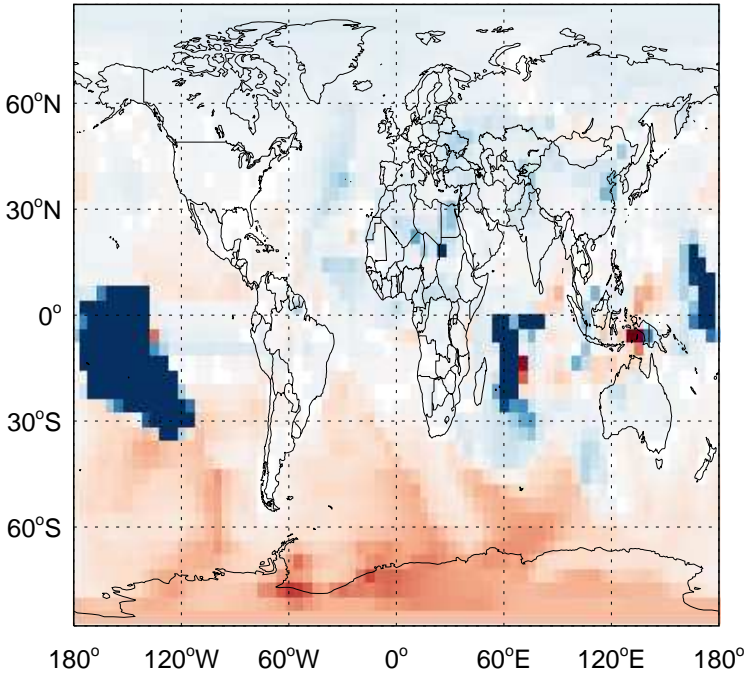
GC\_12.0.0 / v11-02e-Run1  
ISOPNB/ Ratio @ 500 hPa for Oct



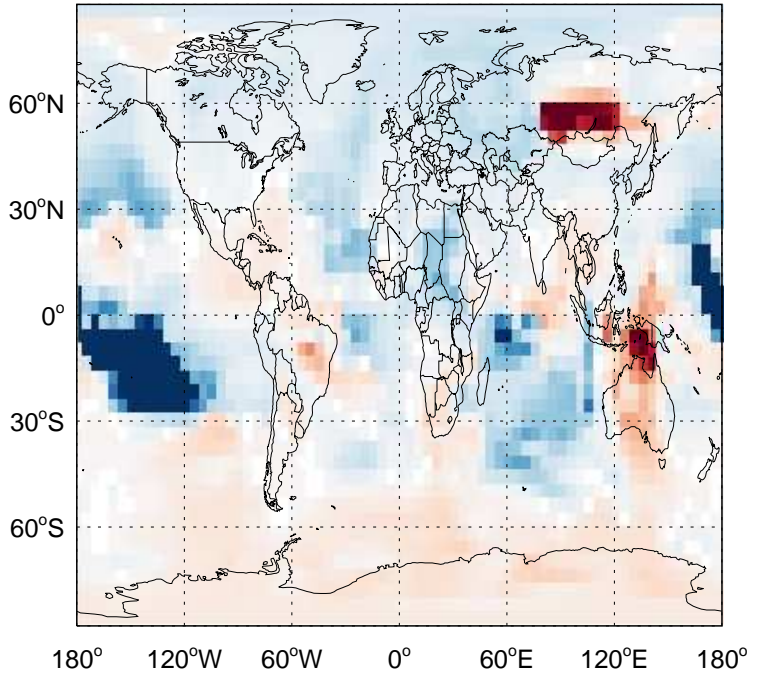


# GEOS-Chem Ratio Maps at surface and 500 hPa

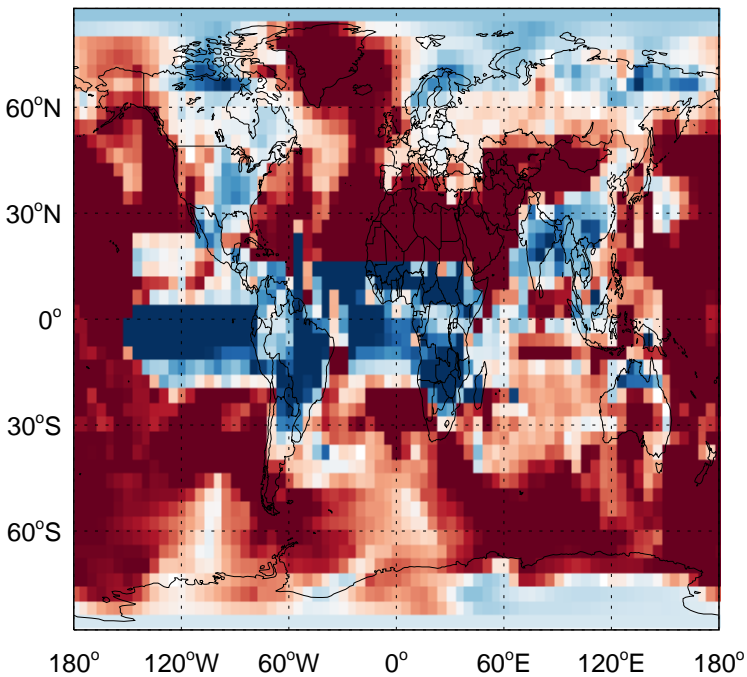
GC\_12.0.0 / v11-02f-Run1  
MOBA / Ratio @ Surface for Oct



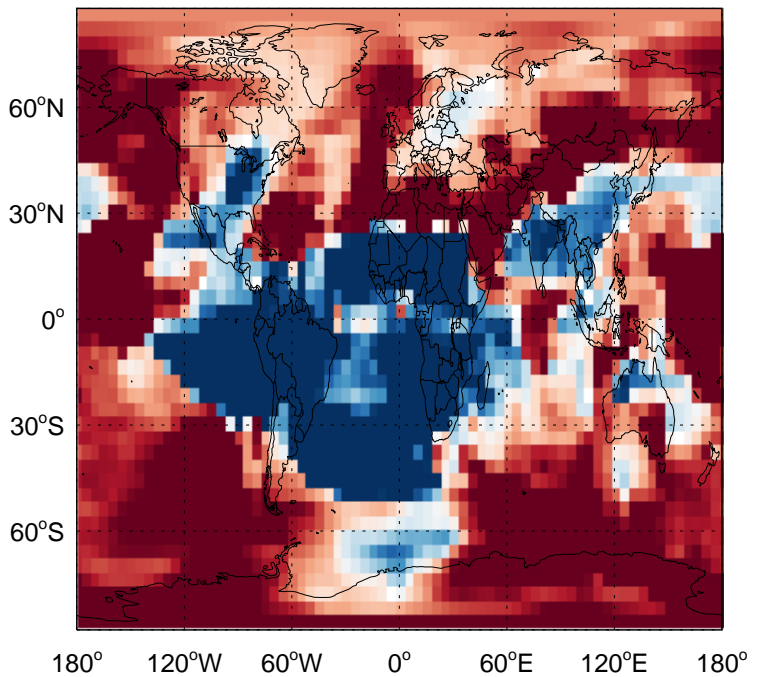
GC\_12.0.0 / v11-02f-Run1  
MOBA/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MOBA / Ratio @ Surface for Oct

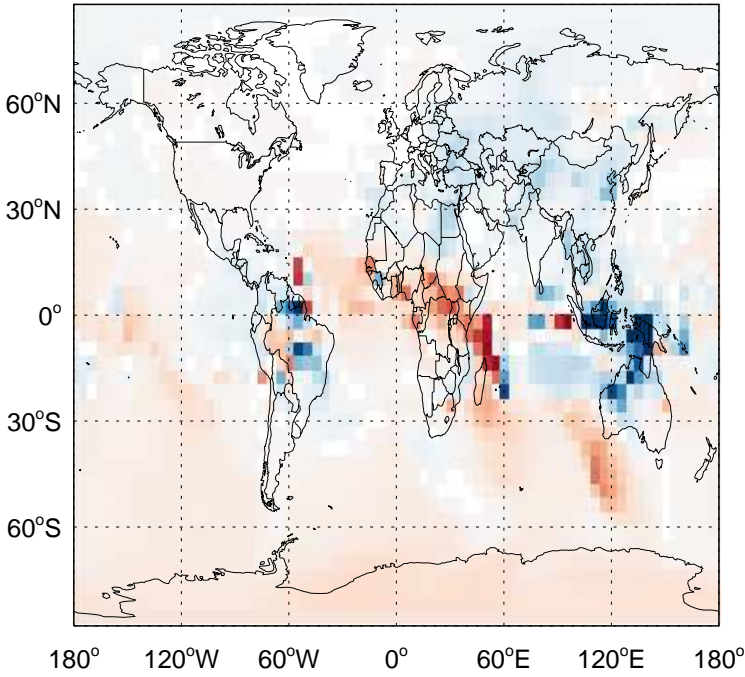


GC\_12.0.0 / v11-02e-Run1  
MOBA/ Ratio @ 500 hPa for Oct

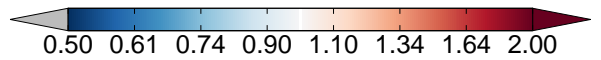
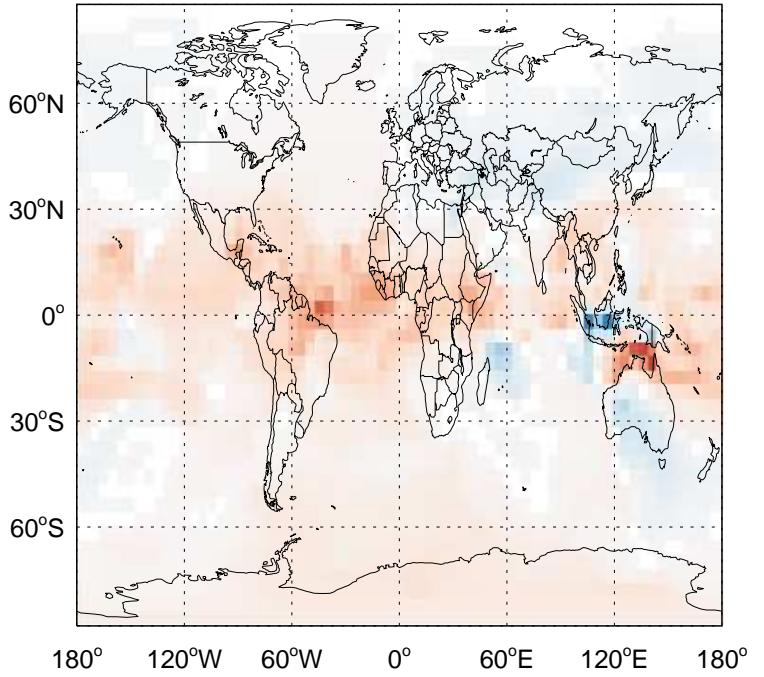


# GEOS-Chem Ratio Maps at surface and 500 hPa

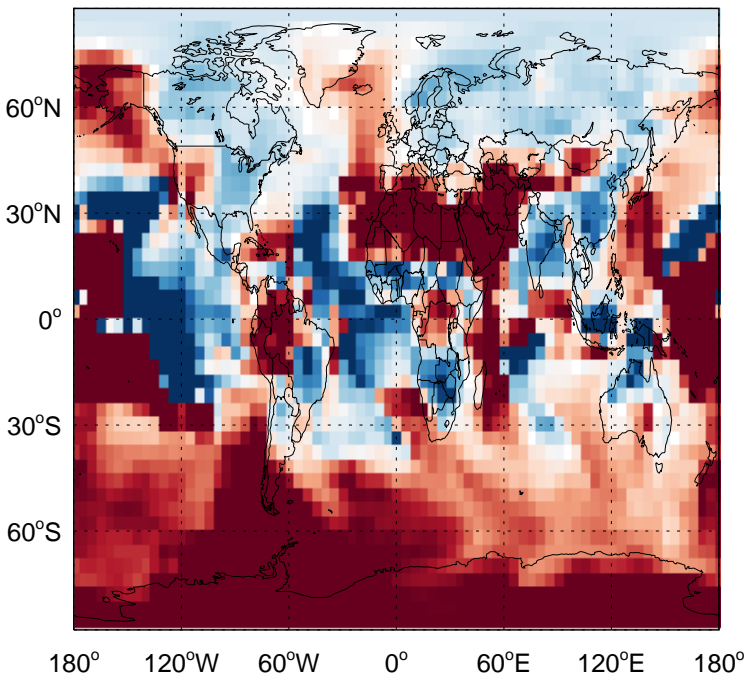
GC\_12.0.0 / v11-02f-Run1  
PROPNN / Ratio @ Surface for Oct



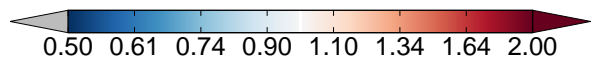
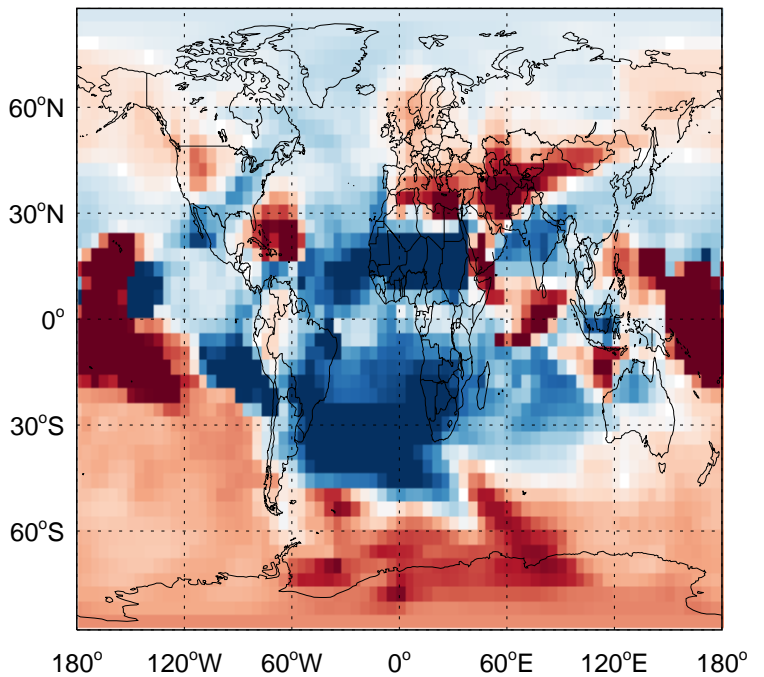
GC\_12.0.0 / v11-02f-Run1  
PROPNN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
PROPNN / Ratio @ Surface for Oct

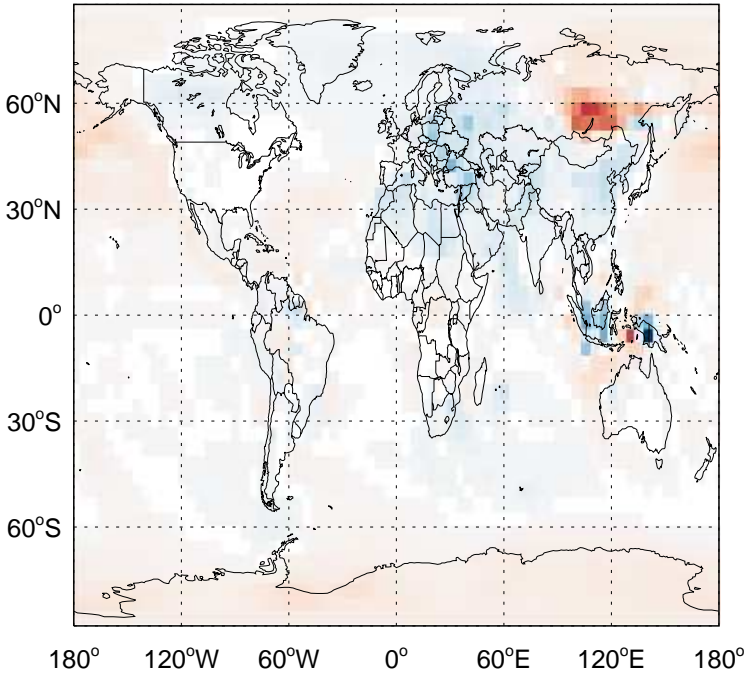


GC\_12.0.0 / v11-02e-Run1  
PROPNN/ Ratio @ 500 hPa for Oct

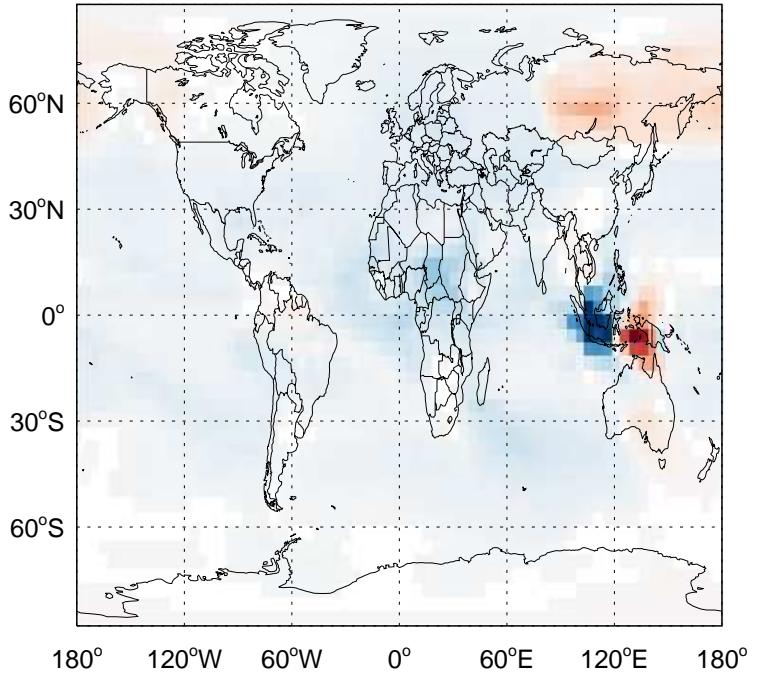


# GEOS-Chem Ratio Maps at surface and 500 hPa

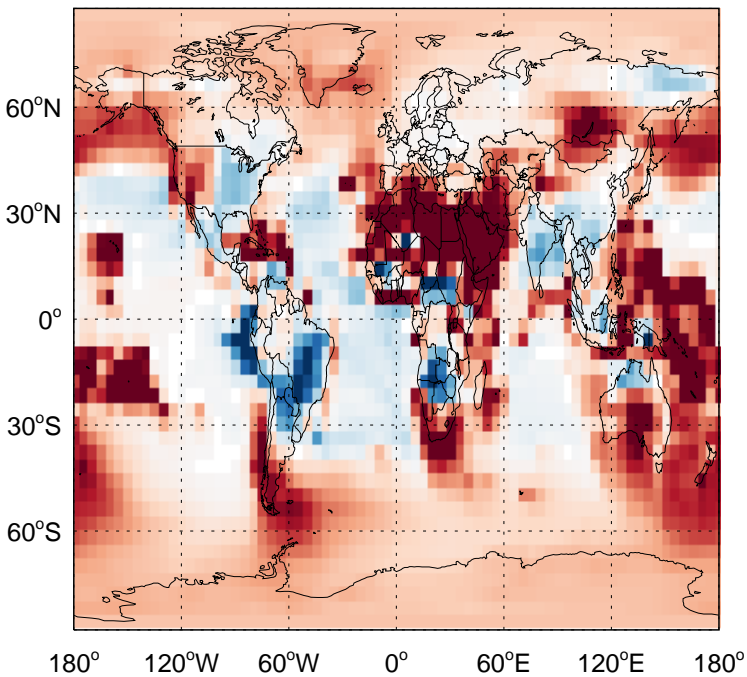
GC\_12.0.0 / v11-02f-Run1  
HAC / Ratio @ Surface for Oct



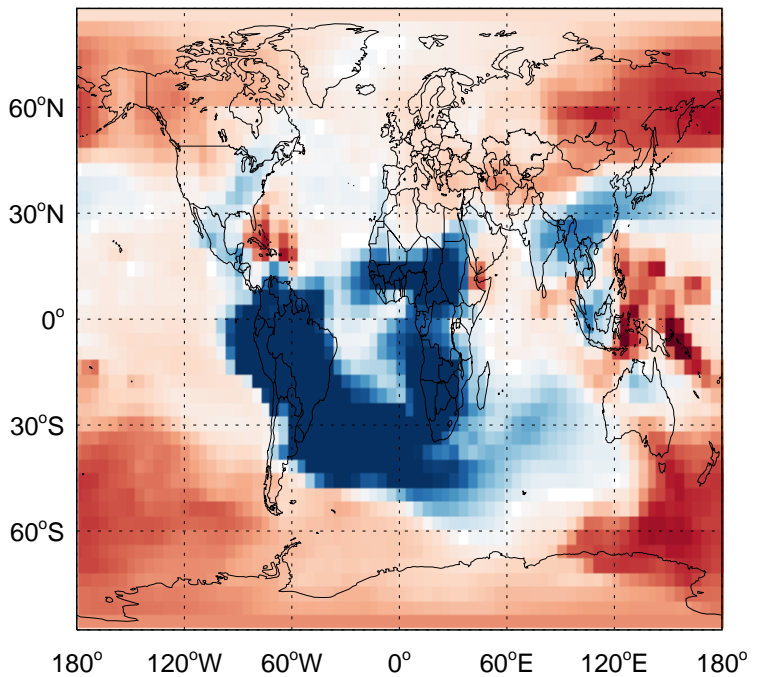
GC\_12.0.0 / v11-02f-Run1  
HAC/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HAC / Ratio @ Surface for Oct



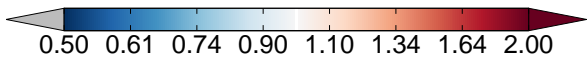
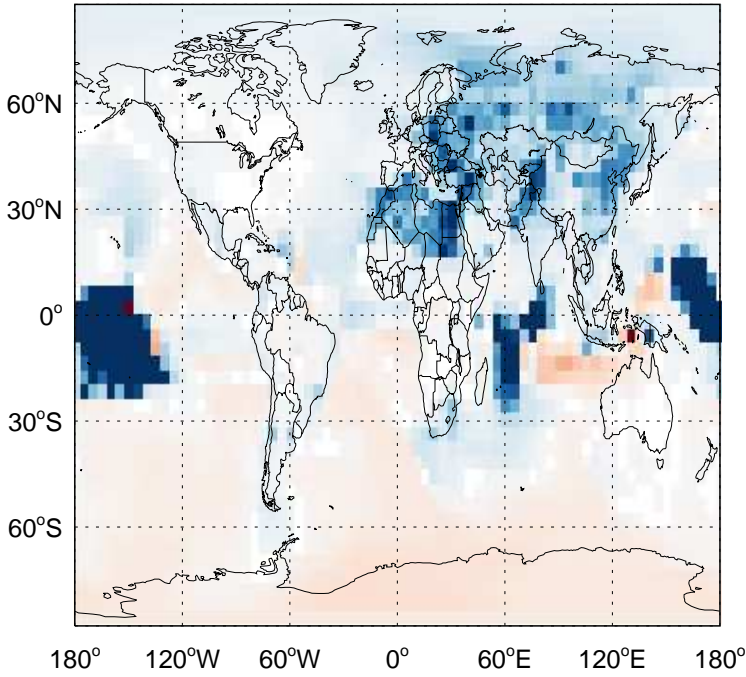
GC\_12.0.0 / v11-02e-Run1  
HAC/ Ratio @ 500 hPa for Oct



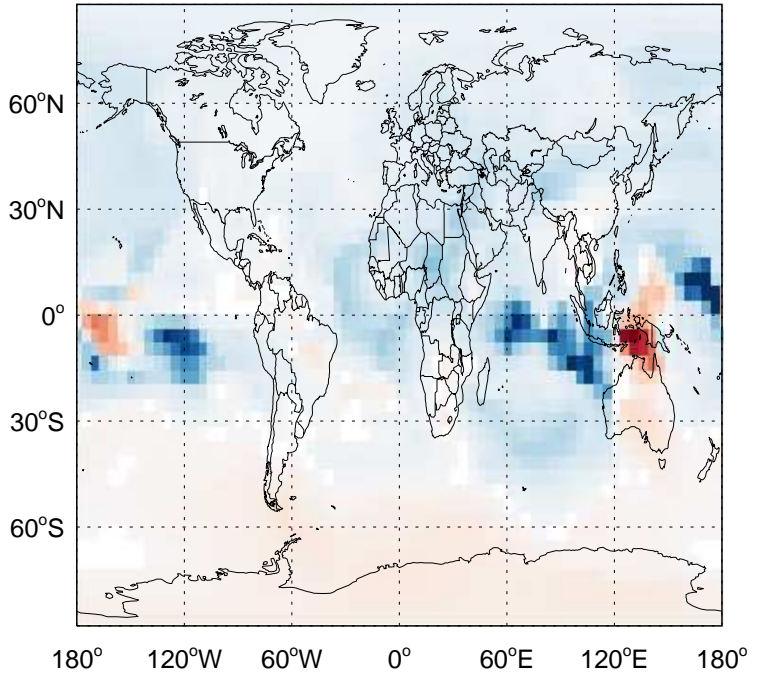


# GEOS-Chem Ratio Maps at surface and 500 hPa

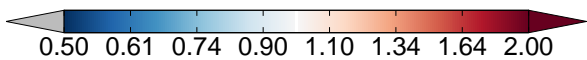
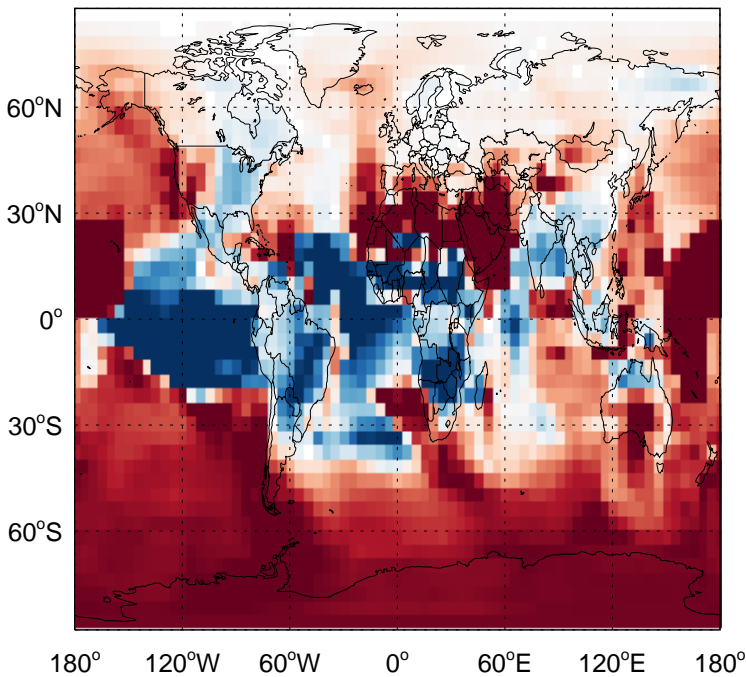
GC\_12.0.0 / v11-02f-Run1  
GLYC / Ratio @ Surface for Oct



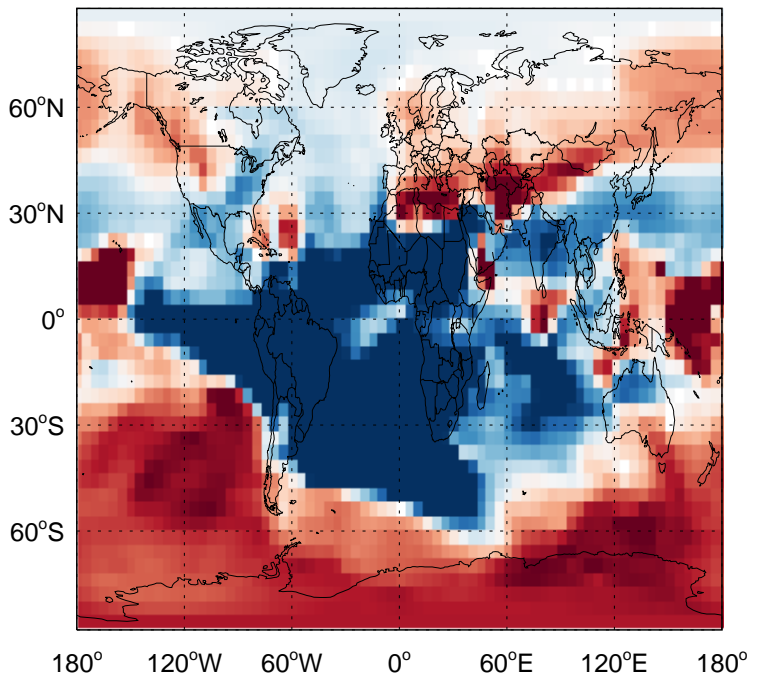
GC\_12.0.0 / v11-02f-Run1  
GLYC/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
GLYC / Ratio @ Surface for Oct



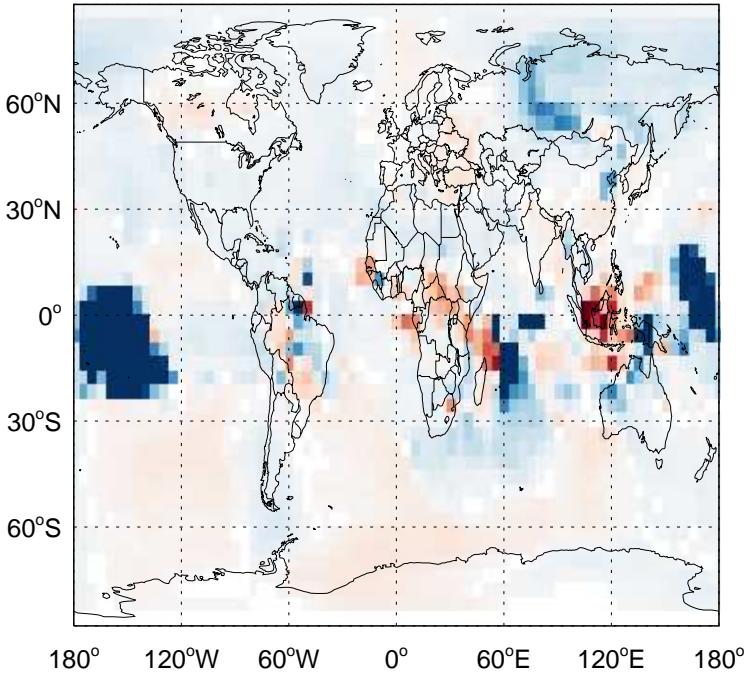
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GLYC/ Ratio @ 500 hPa for Oct



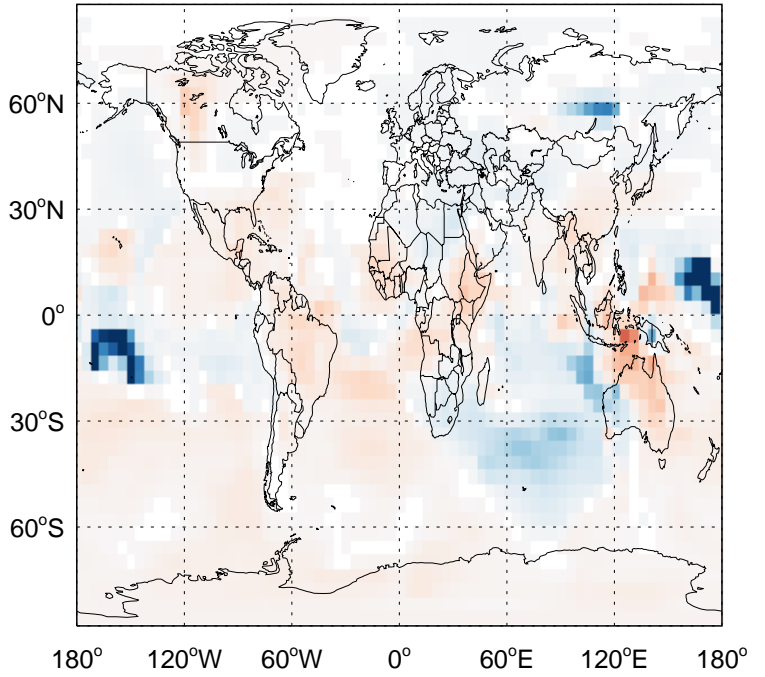


# GEOS-Chem Ratio Maps at surface and 500 hPa

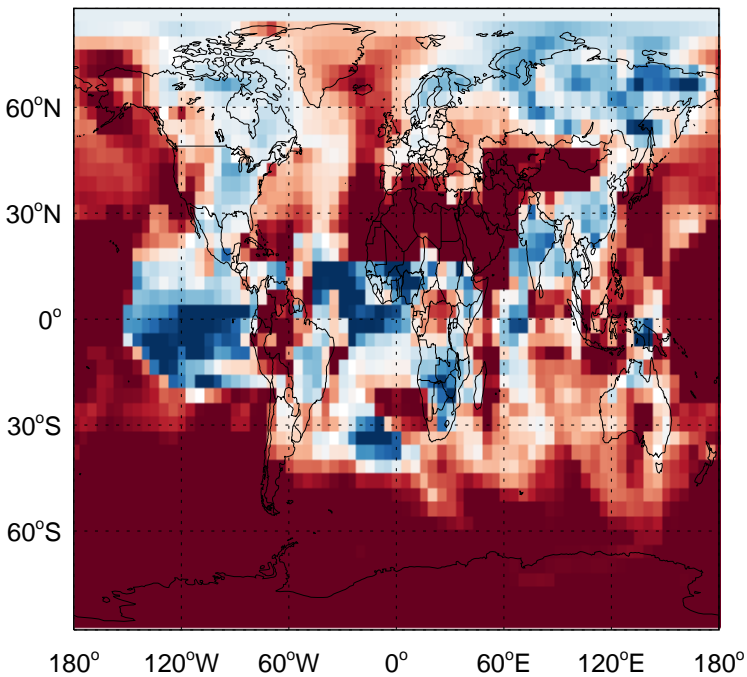
GC\_12.0.0 / v11-02f-Run1  
MVKN / Ratio @ Surface for Oct



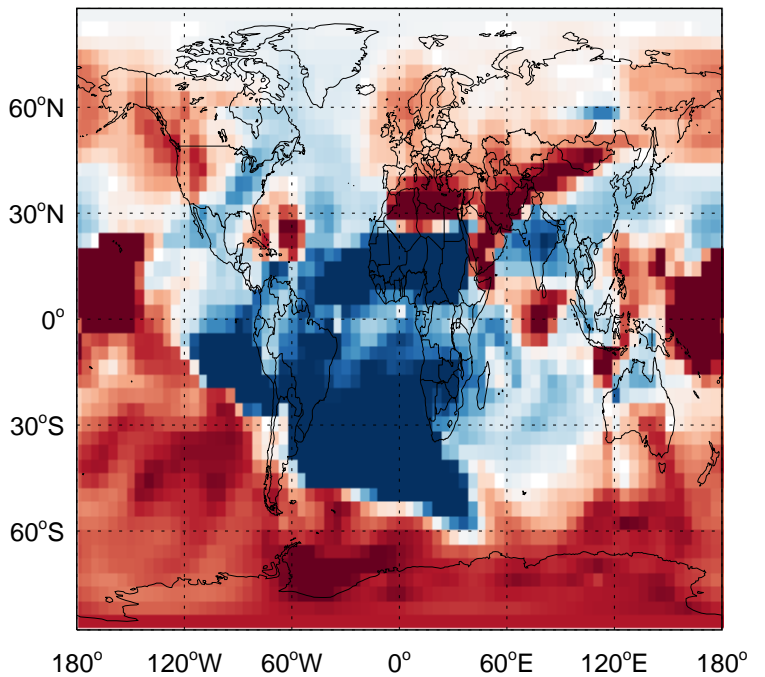
GC\_12.0.0 / v11-02f-Run1  
MVKN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MVKN / Ratio @ Surface for Oct

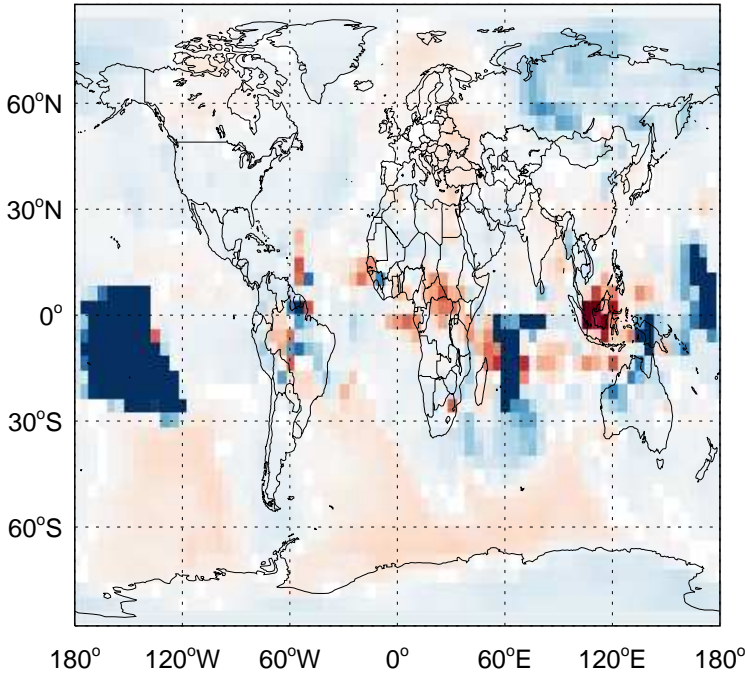


GC\_12.0.0 / v11-02e-Run1  
MVKN/ Ratio @ 500 hPa for Oct

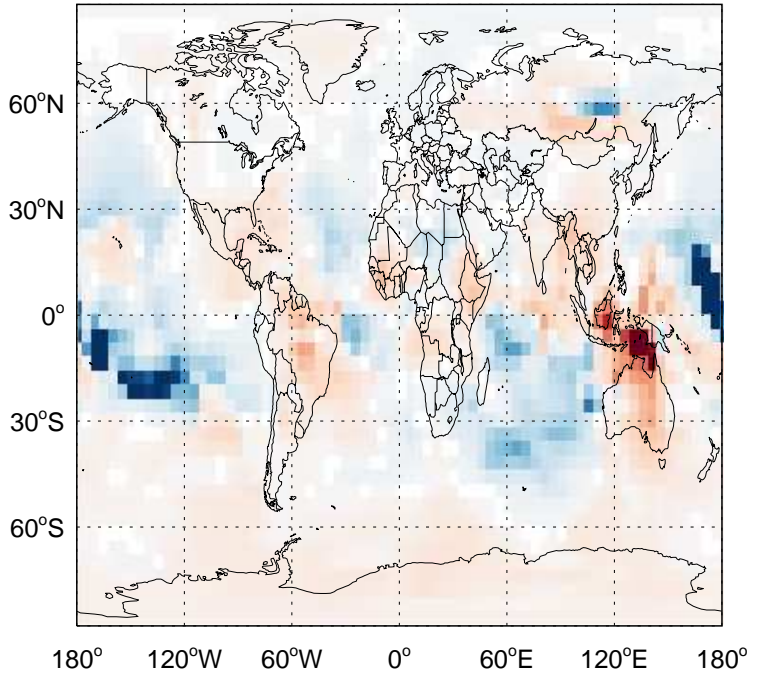


# GEOS-Chem Ratio Maps at surface and 500 hPa

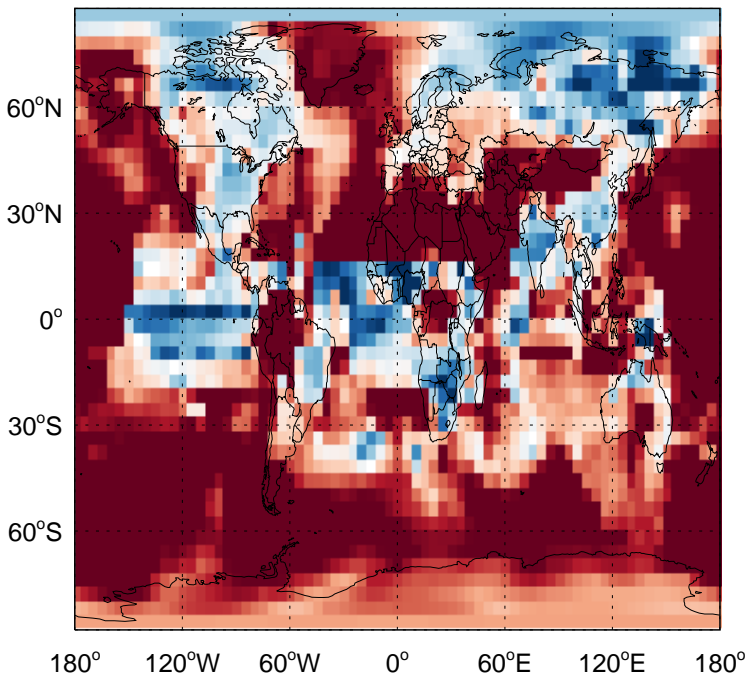
GC\_12.0.0 / v11-02f-Run1  
MACRN / Ratio @ Surface for Oct



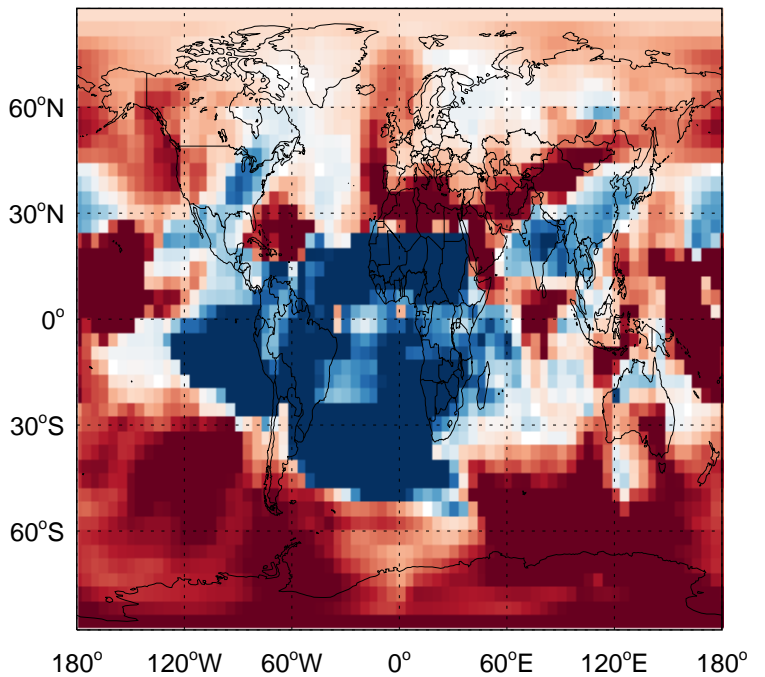
GC\_12.0.0 / v11-02f-Run1  
MACRN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MACRN / Ratio @ Surface for Oct

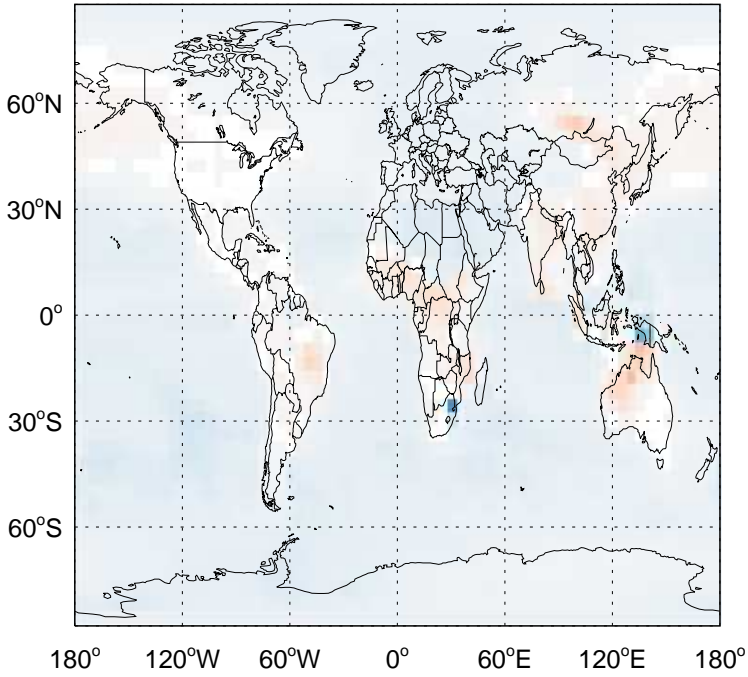


GC\_12.0.0 / v11-02e-Run1  
MACRN/ Ratio @ 500 hPa for Oct

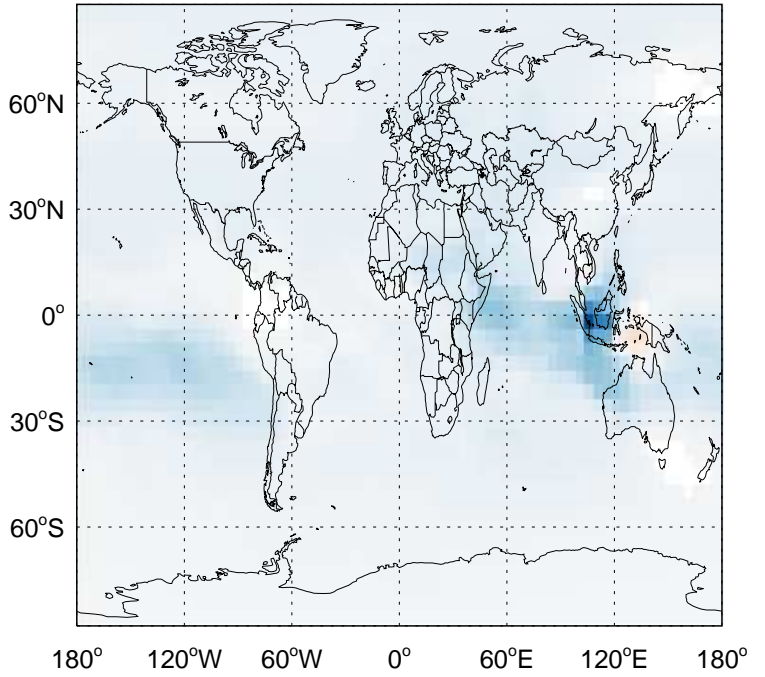


# GEOS-Chem Ratio Maps at surface and 500 hPa

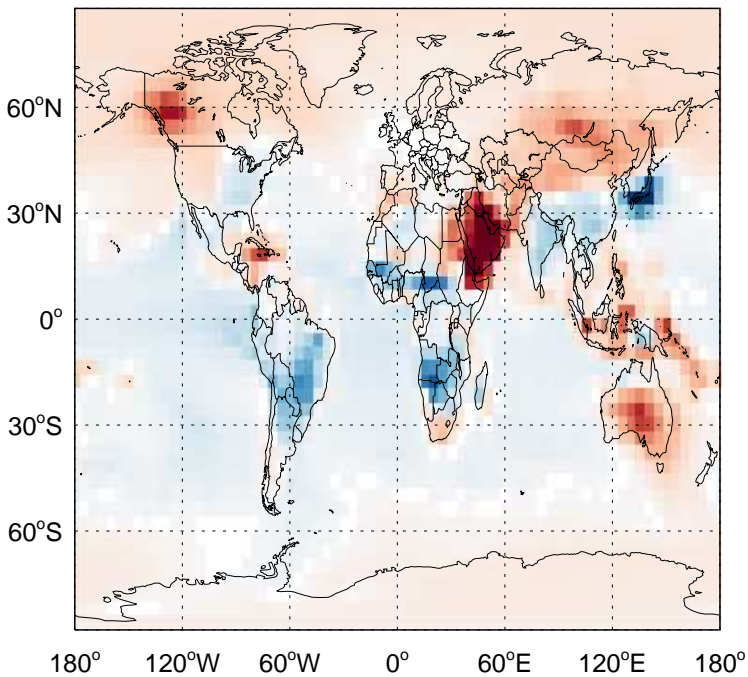
GC\_12.0.0 / v11-02f-Run1  
MAP / Ratio @ Surface for Oct



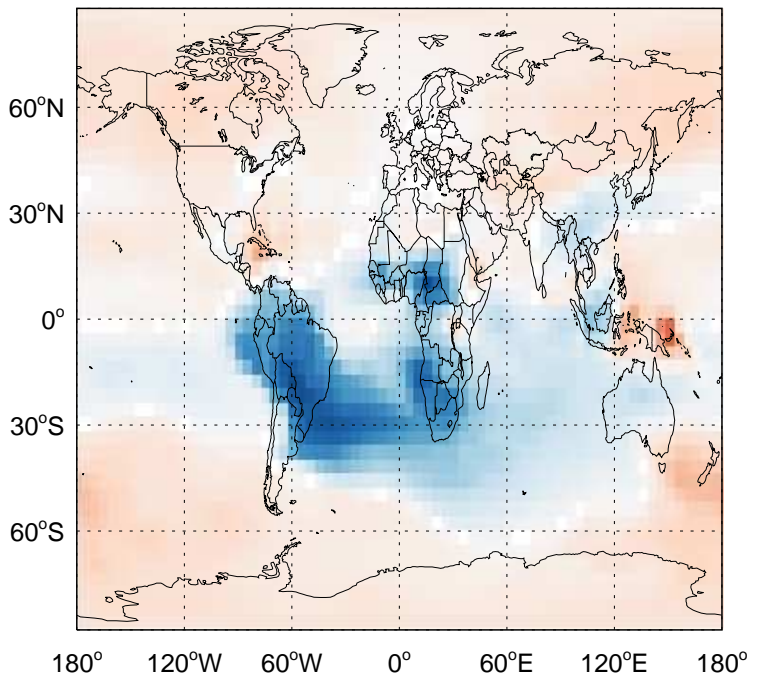
GC\_12.0.0 / v11-02f-Run1  
MAP/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MAP / Ratio @ Surface for Oct



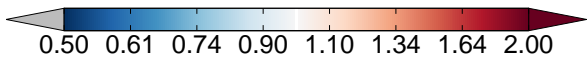
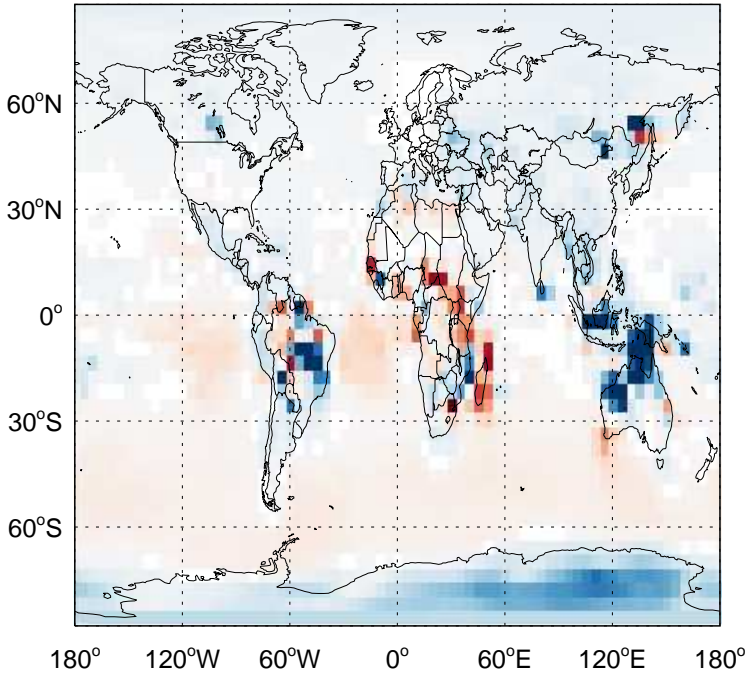
GC\_12.0.0 / v11-02e-Run1  
MAP/ Ratio @ 500 hPa for Oct



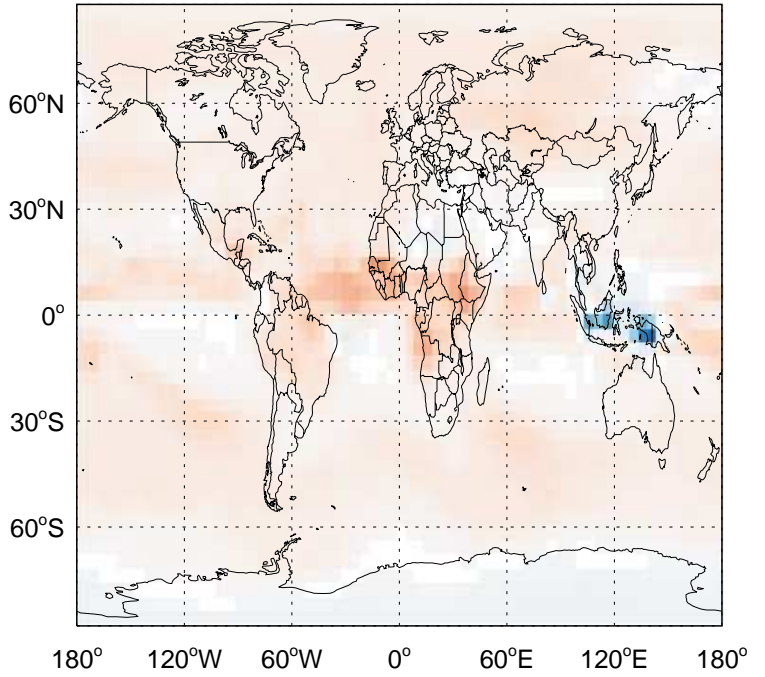


# GEOS-Chem Ratio Maps at surface and 500 hPa

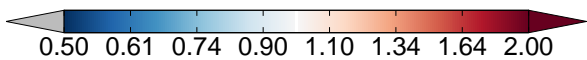
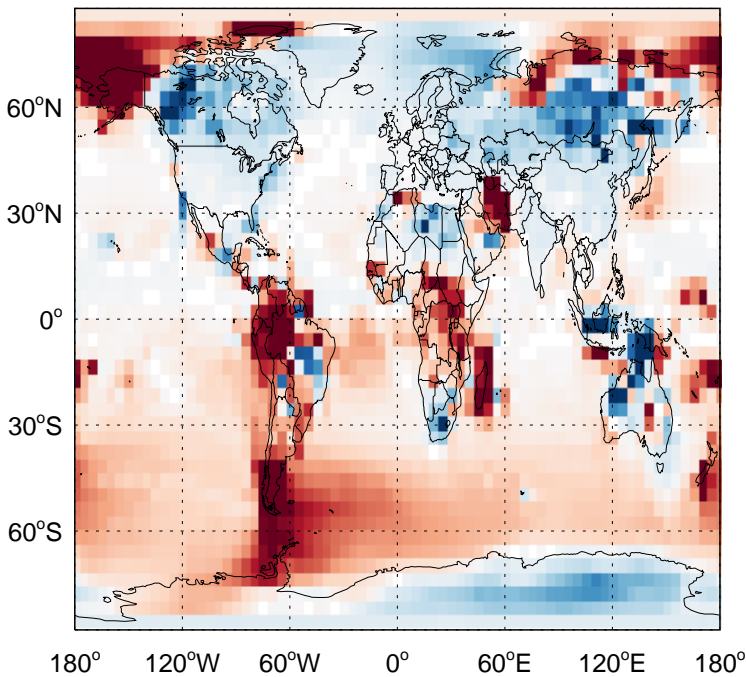
GC\_12.0.0 / v11-02f-Run1  
NO2 / Ratio @ Surface for Oct



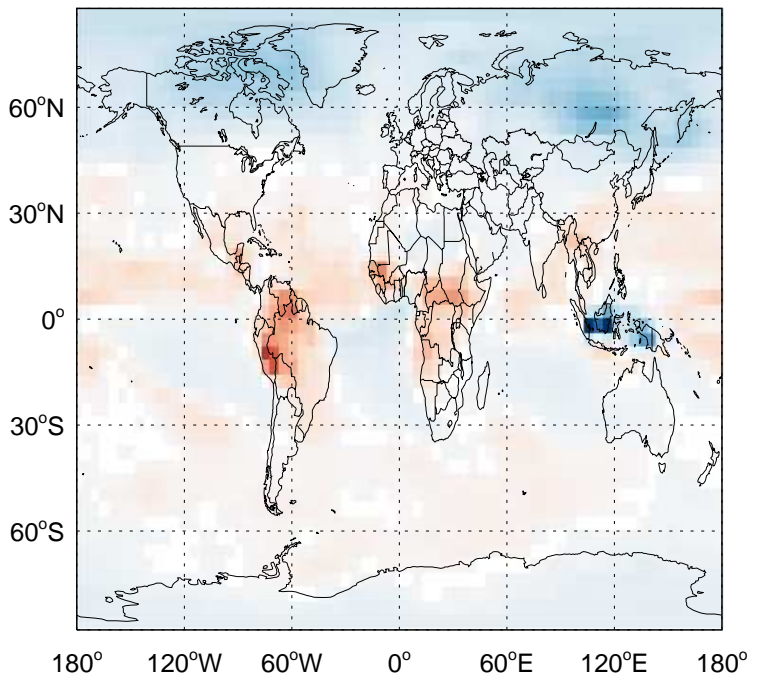
GC\_12.0.0 / v11-02f-Run1  
NO2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NO2 / Ratio @ Surface for Oct



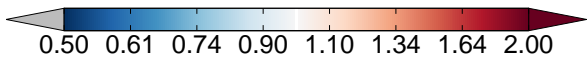
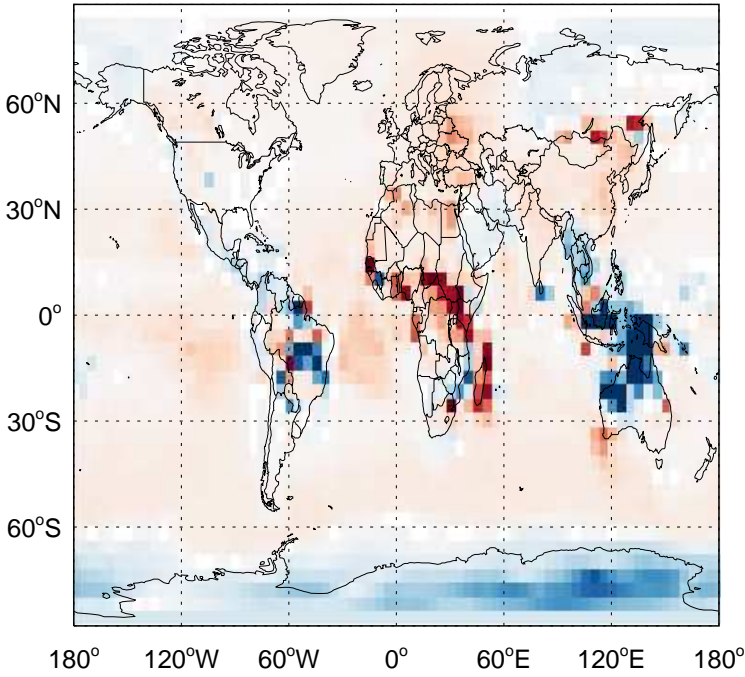
GC\_12.0.0 / v11-02e-Run1  
NO2/ Ratio @ 500 hPa for Oct



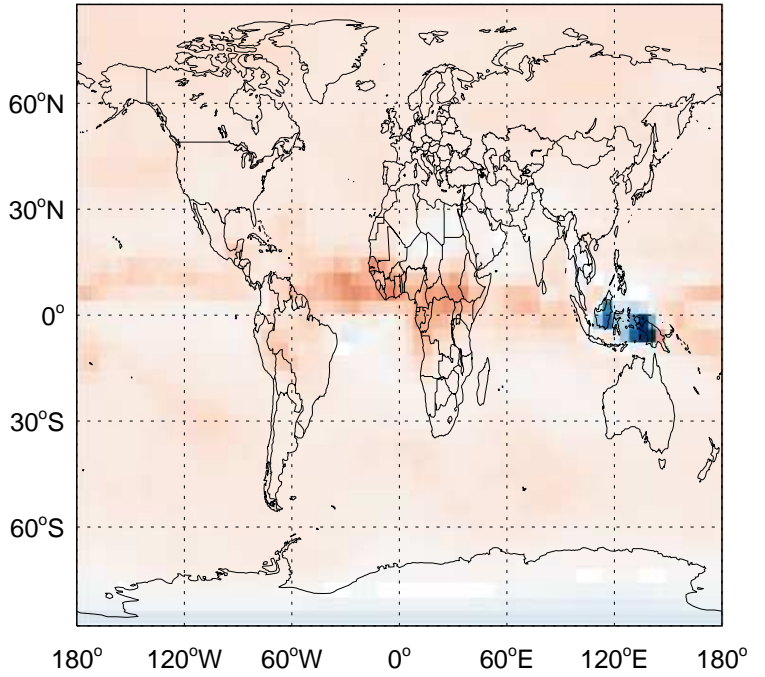


# GEOS-Chem Ratio Maps at surface and 500 hPa

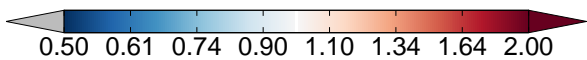
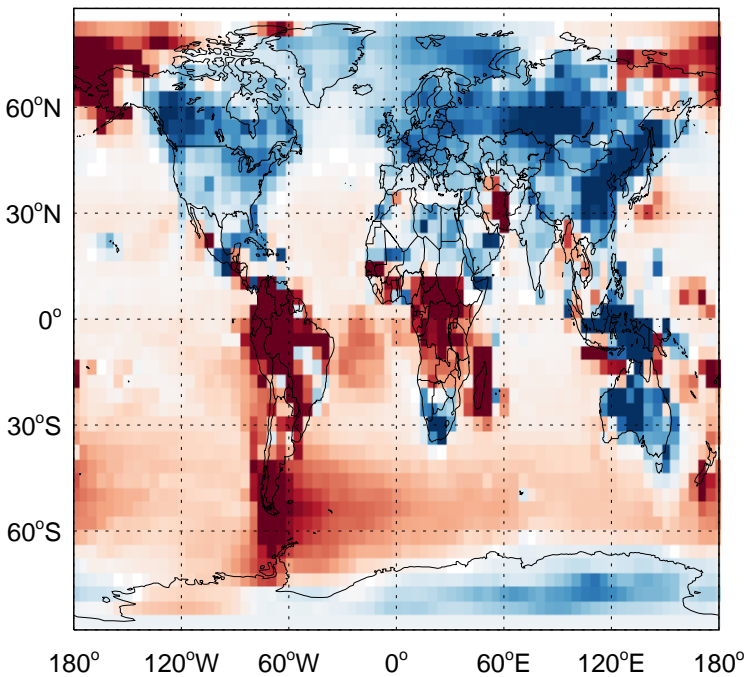
GC\_12.0.0 / v11-02f-Run1  
NO3 / Ratio @ Surface for Oct



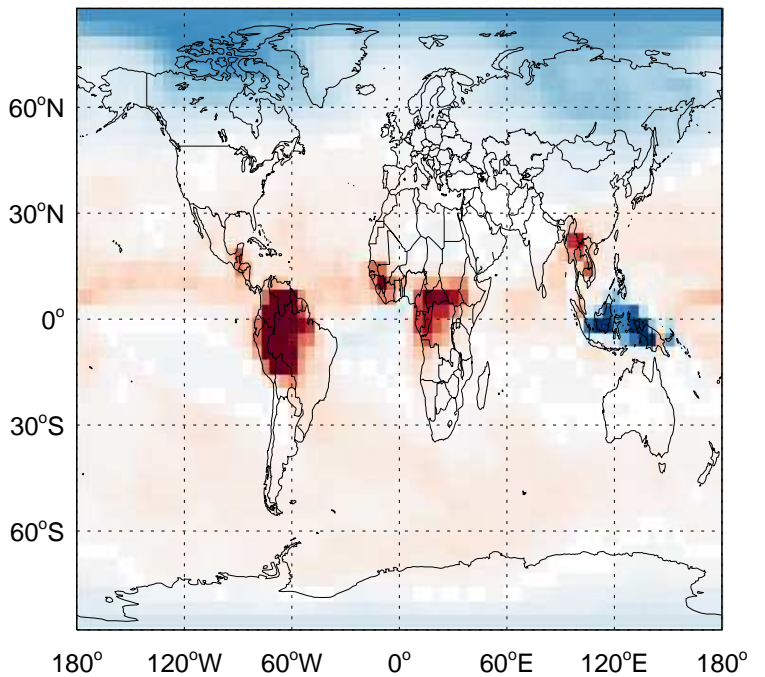
GC\_12.0.0 / v11-02f-Run1  
NO3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
NO3 / Ratio @ Surface for Oct

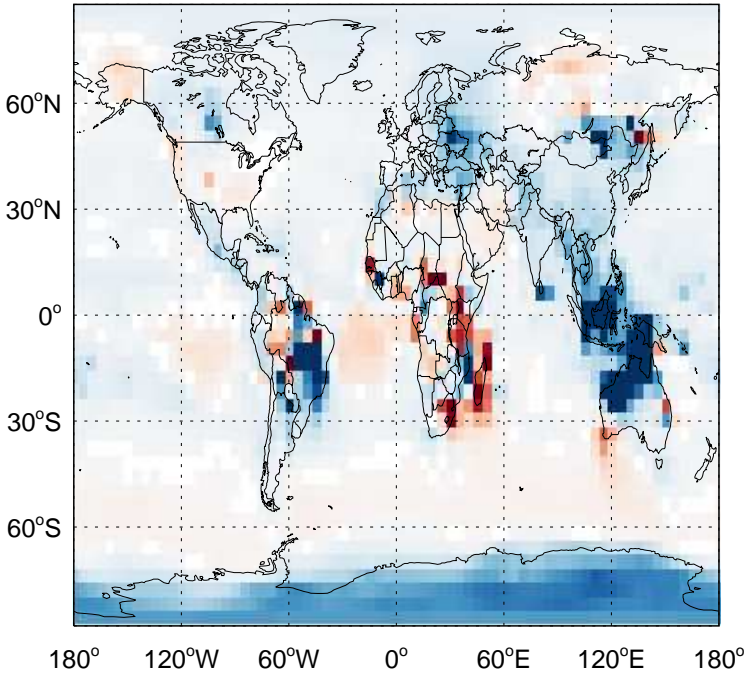


GC\_12.0.0 / v11-02e-Run1  
NO3/ Ratio @ 500 hPa for Oct

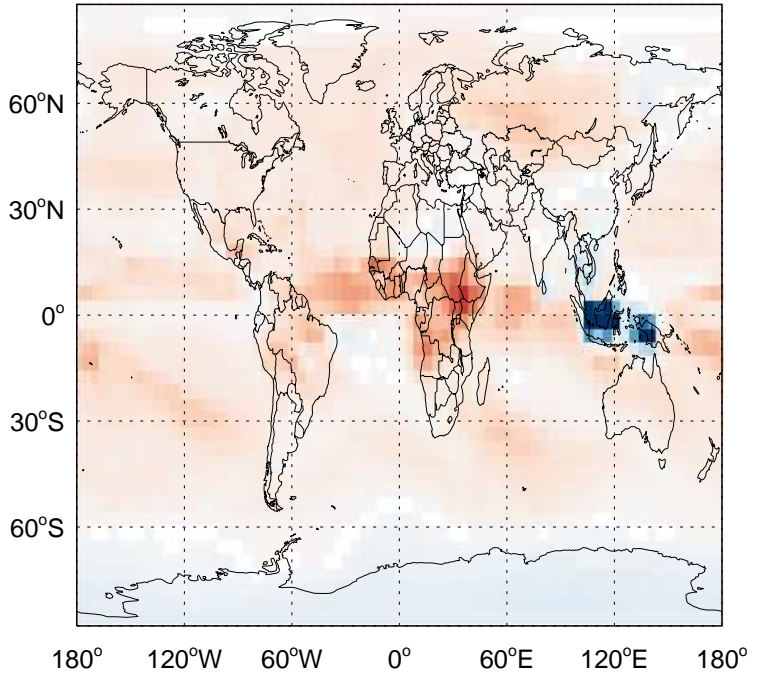


# GEOS-Chem Ratio Maps at surface and 500 hPa

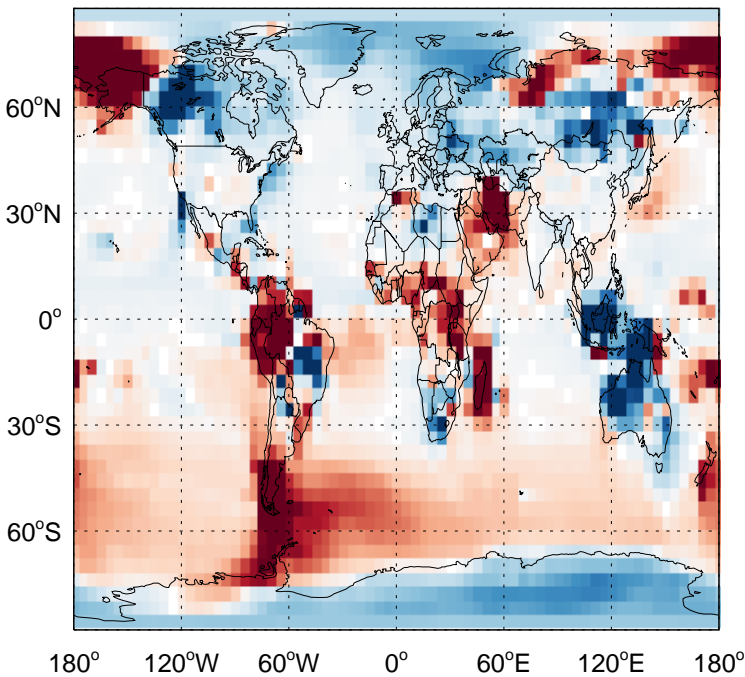
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>2</sub> / Ratio @ Surface for Oct



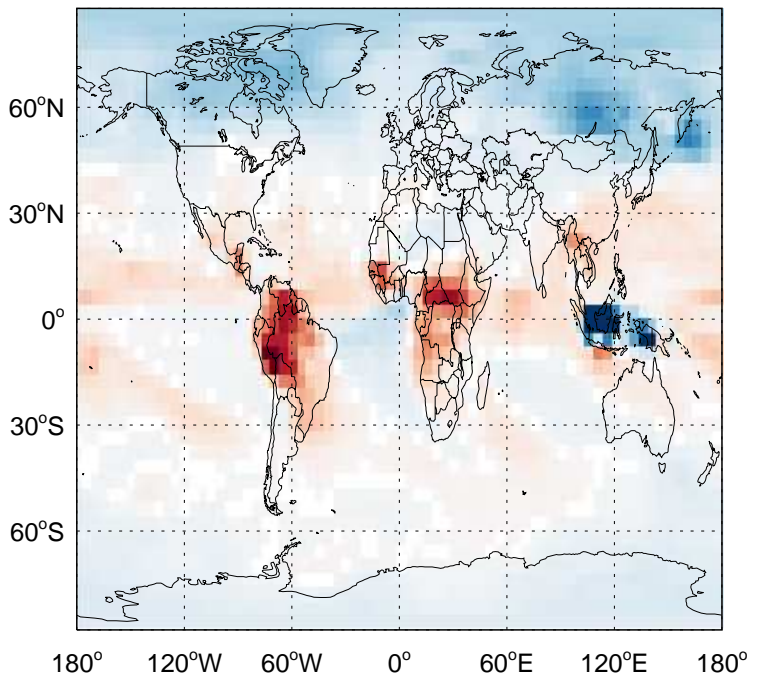
GC\_12.0.0 / v11-02f-Run1  
HNO<sub>2</sub> / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HNO<sub>2</sub> / Ratio @ Surface for Oct

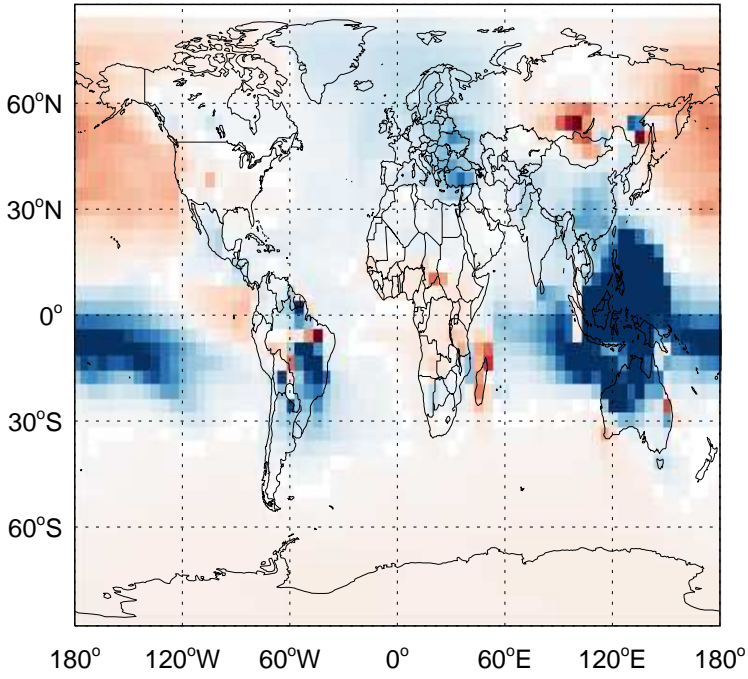


GC\_12.0.0 / v11-02e-Run1  
HNO<sub>2</sub> / Ratio @ 500 hPa for Oct

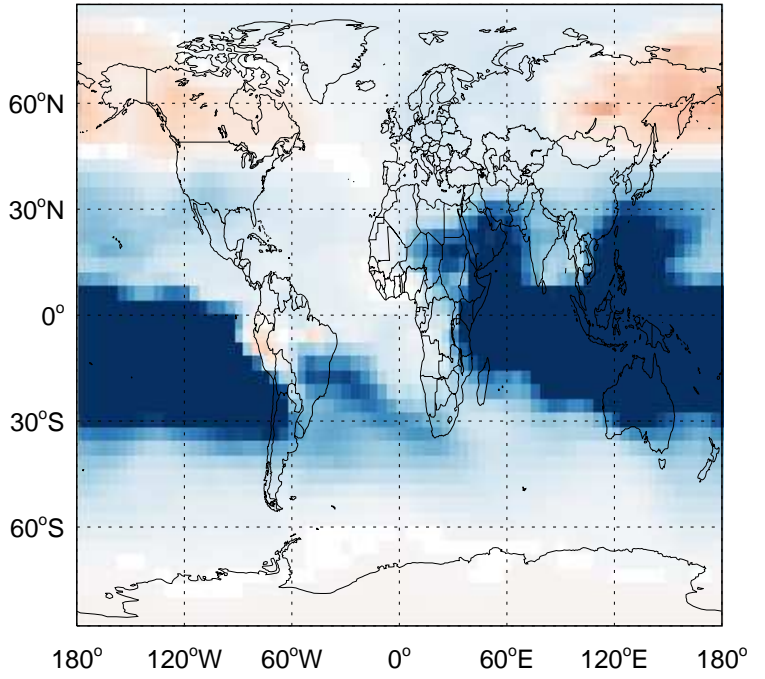


# GEOS-Chem Ratio Maps at surface and 500 hPa

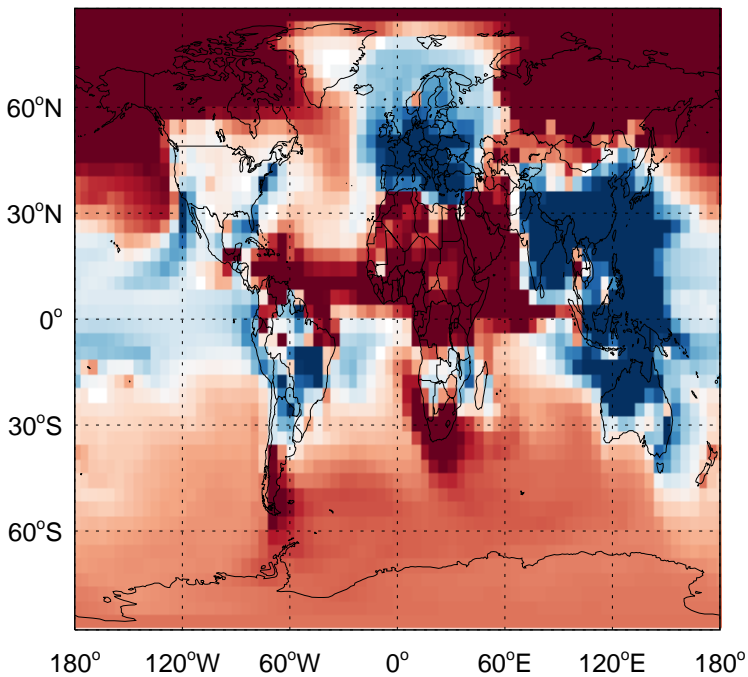
GC\_12.0.0 / v11-02f-Run1  
BENZ / Ratio @ Surface for Oct



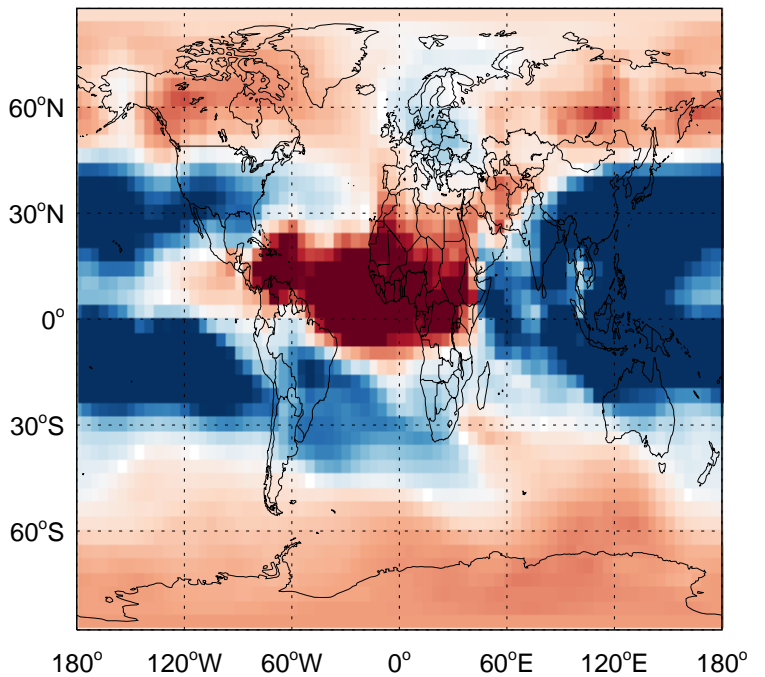
GC\_12.0.0 / v11-02f-Run1  
BENZ/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BENZ / Ratio @ Surface for Oct



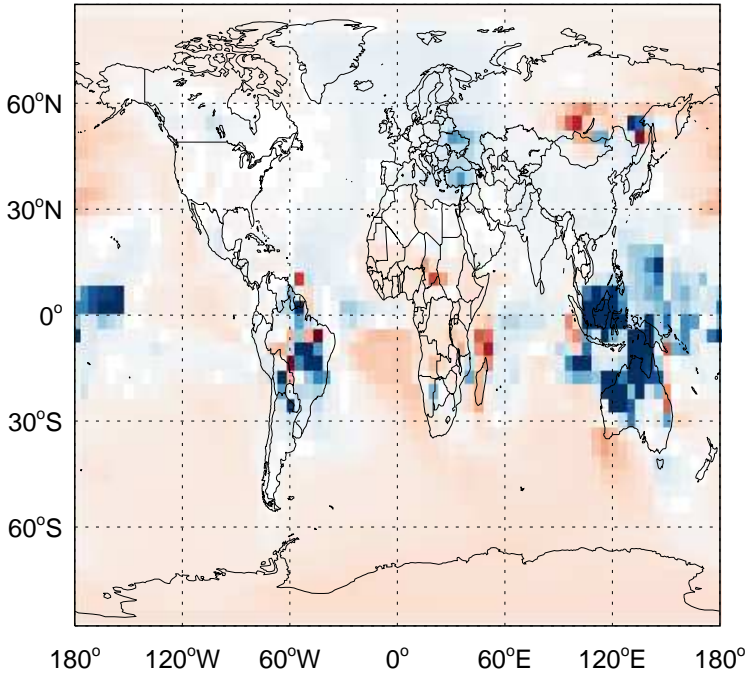
GC\_12.0.0 / v11-02e-Run1  
BENZ/ Ratio @ 500 hPa for Oct



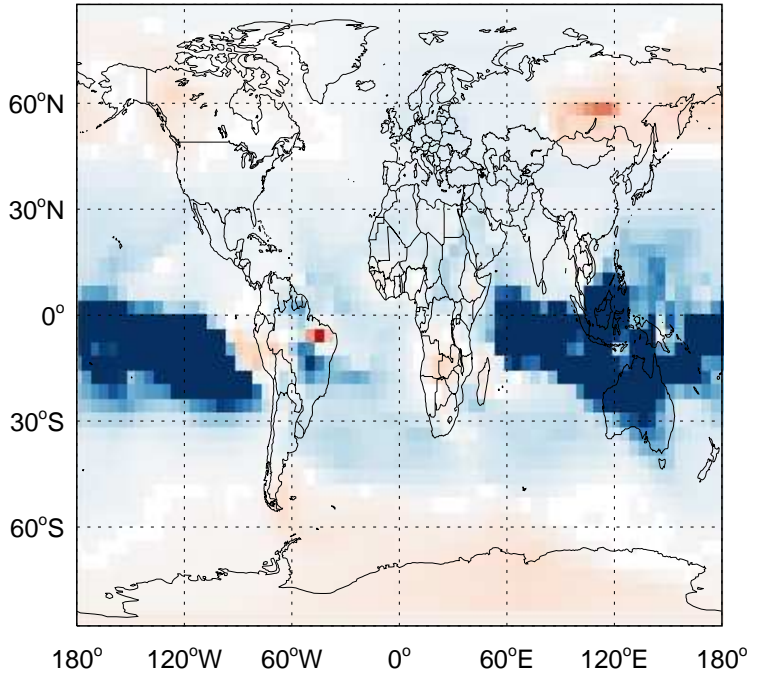


# GEOS-Chem Ratio Maps at surface and 500 hPa

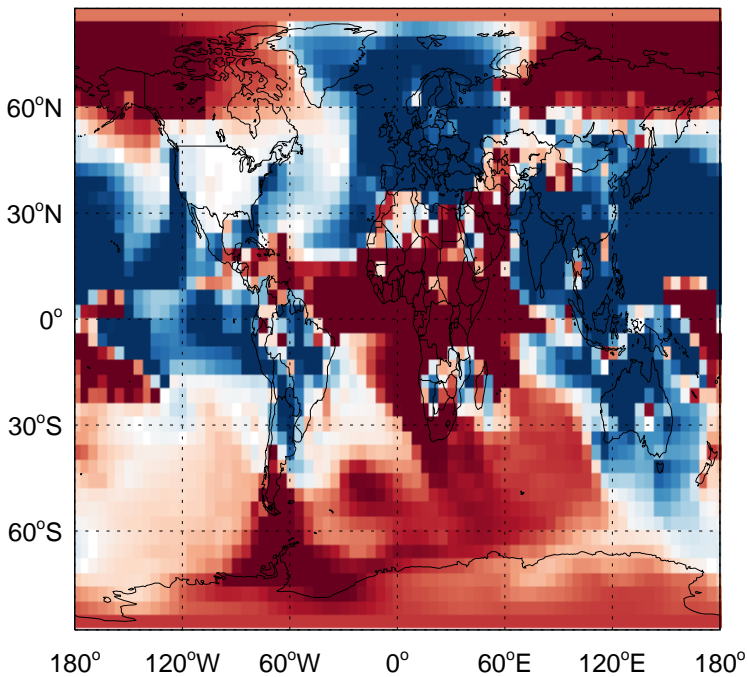
GC\_12.0.0 / v11-02f-Run1  
TOLU / Ratio @ Surface for Oct



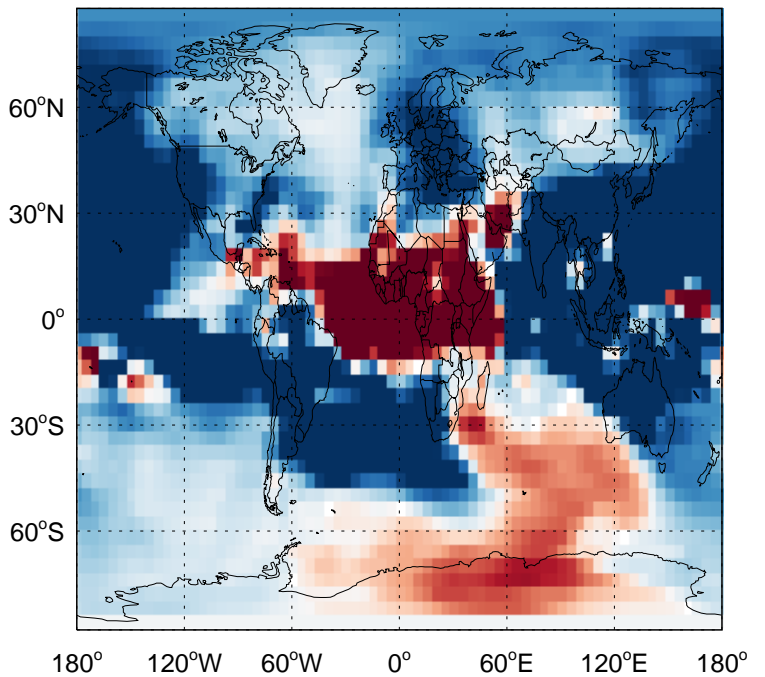
GC\_12.0.0 / v11-02f-Run1  
TOLU/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TOLU / Ratio @ Surface for Oct



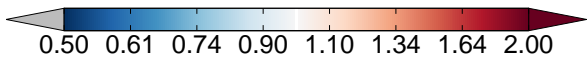
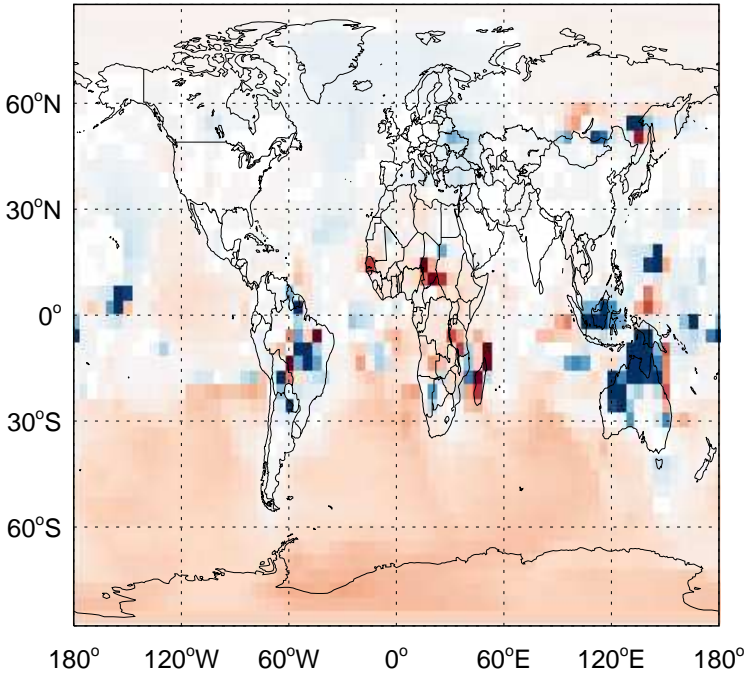
GC\_12.0.0 / v11-02e-Run1  
TOLU/ Ratio @ 500 hPa for Oct



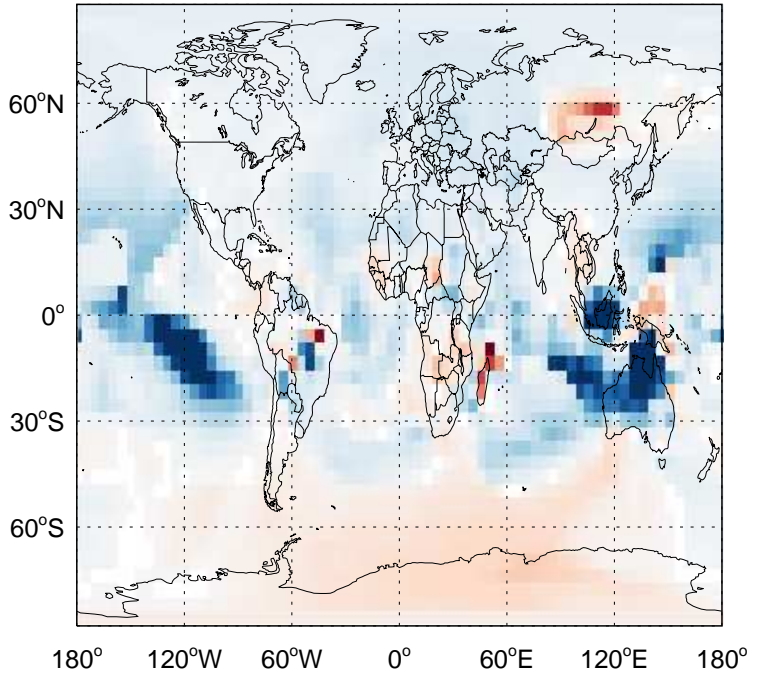


# GEOS-Chem Ratio Maps at surface and 500 hPa

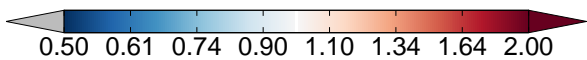
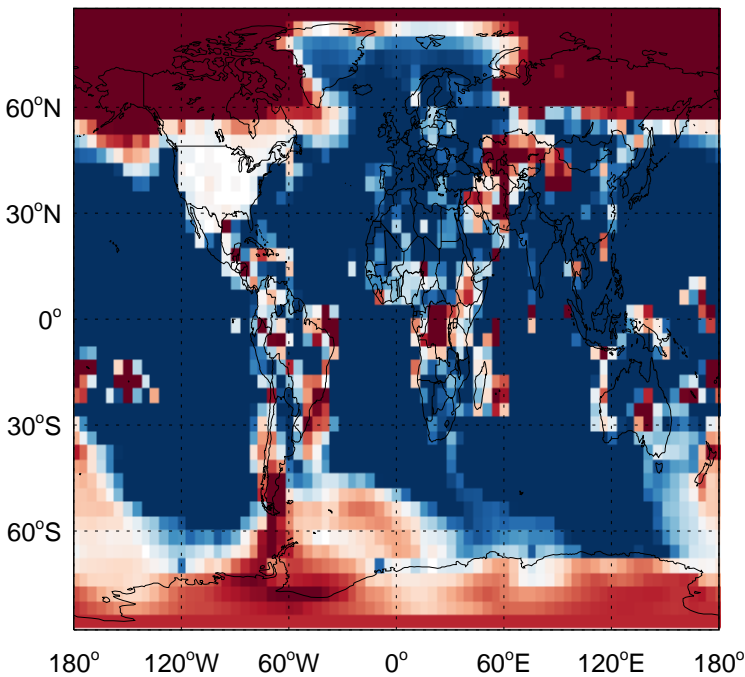
GC\_12.0.0 / v11-02f-Run1  
XYLE / Ratio @ Surface for Oct



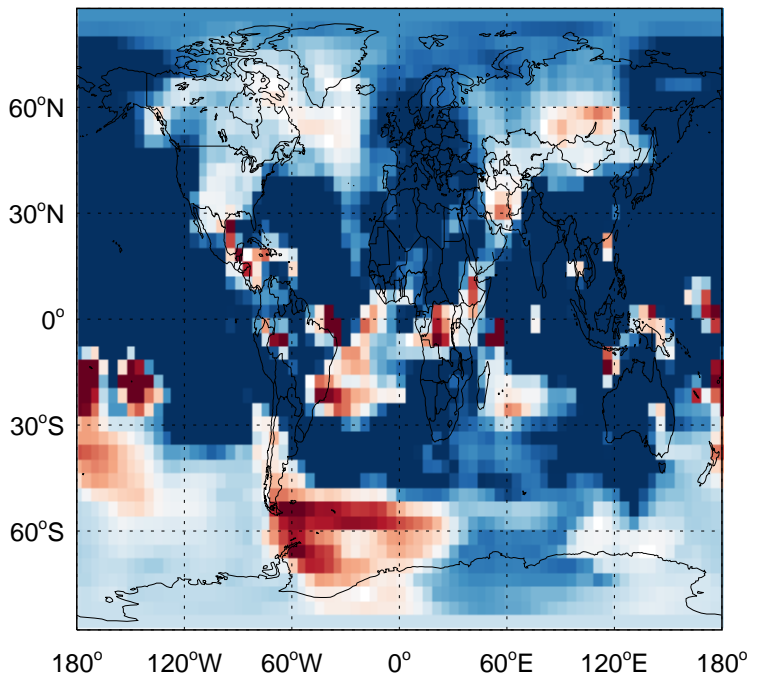
GC\_12.0.0 / v11-02f-Run1  
XYLE/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
XYLE / Ratio @ Surface for Oct

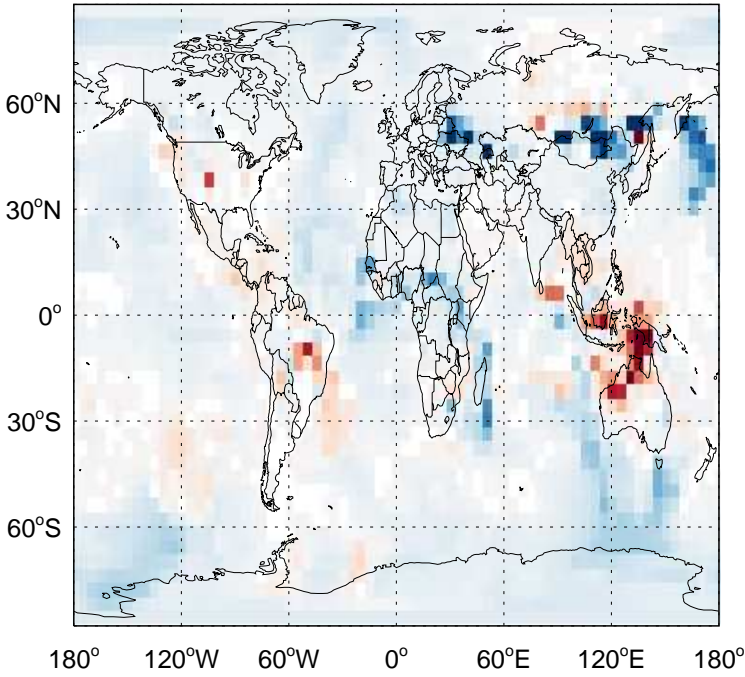


GC\_12.0.0 / v11-02e-Run1  
XYLE/ Ratio @ 500 hPa for Oct

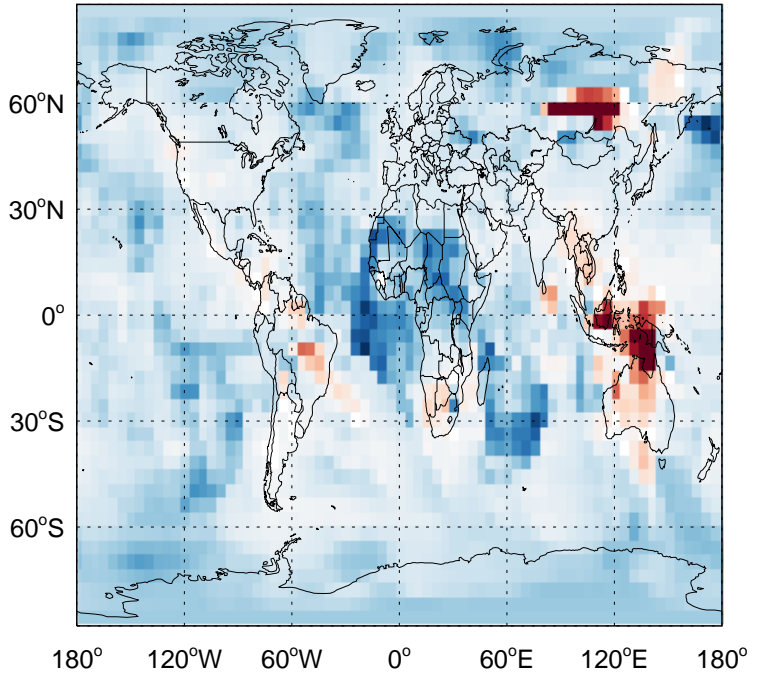


# GEOS-Chem Ratio Maps at surface and 500 hPa

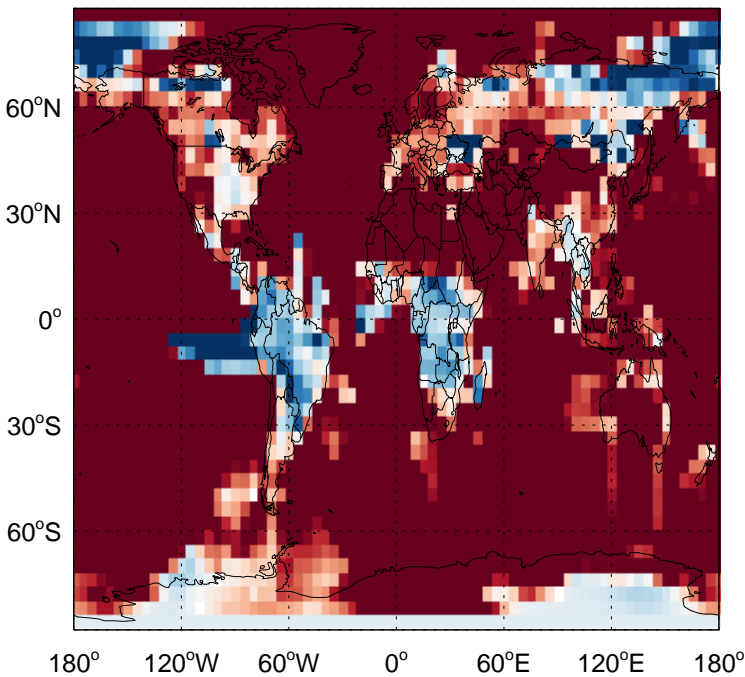
GC\_12.0.0 / v11-02f-Run1  
MTPA / Ratio @ Surface for Oct



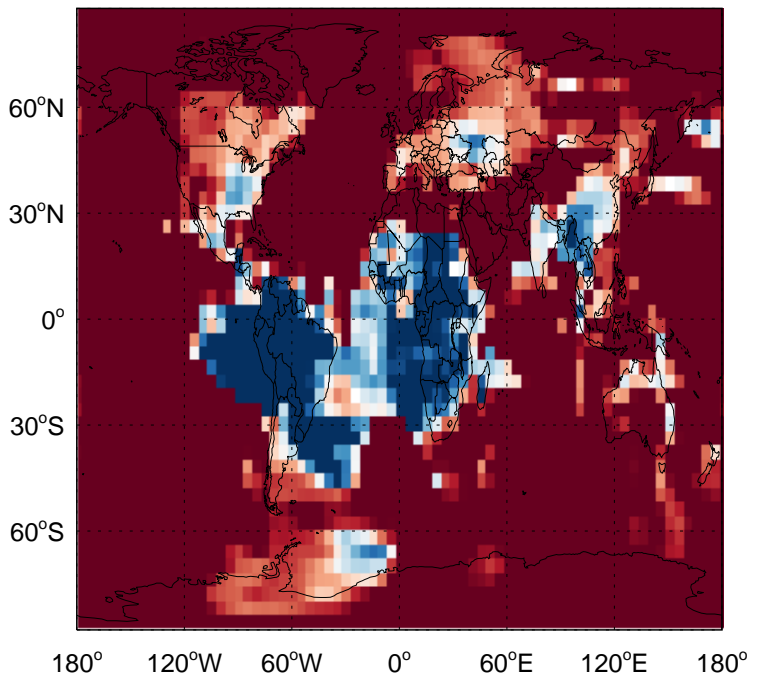
GC\_12.0.0 / v11-02f-Run1  
MTPA/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MTPA / Ratio @ Surface for Oct

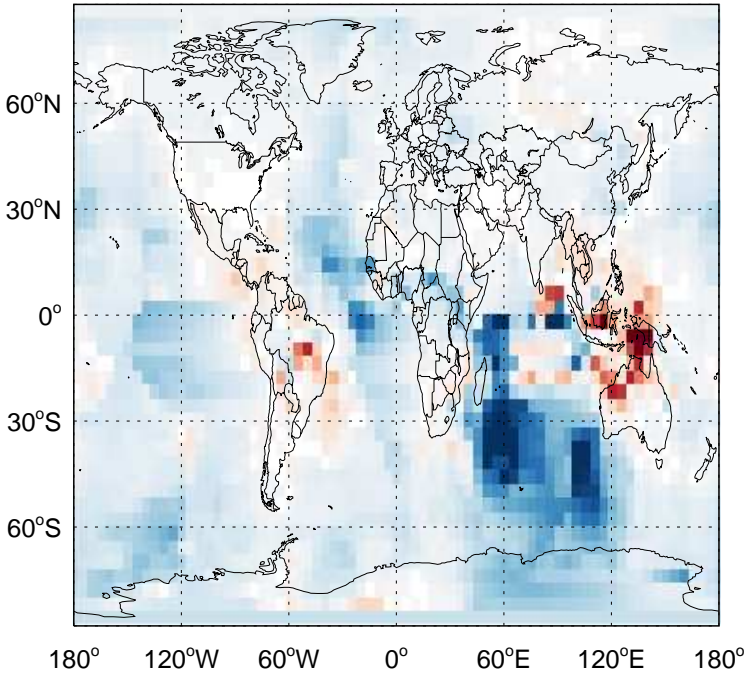


GC\_12.0.0 / v11-02e-Run1  
MTPA/ Ratio @ 500 hPa for Oct

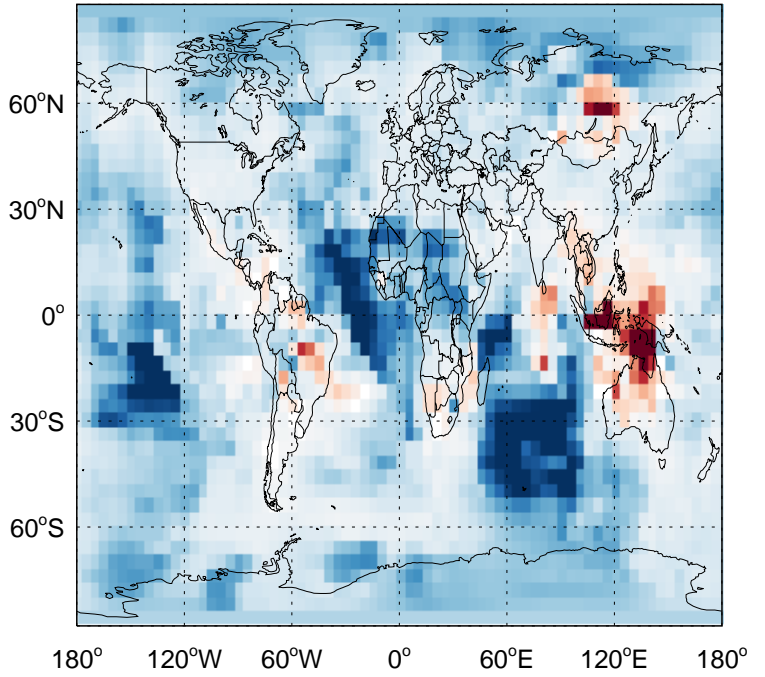


# GEOS-Chem Ratio Maps at surface and 500 hPa

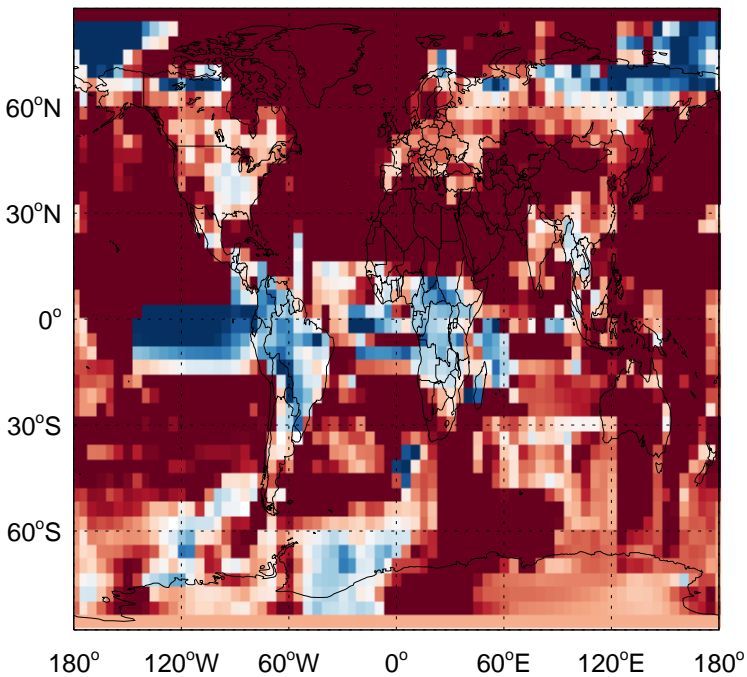
GC\_12.0.0 / v11-02f-Run1  
LIMO / Ratio @ Surface for Oct



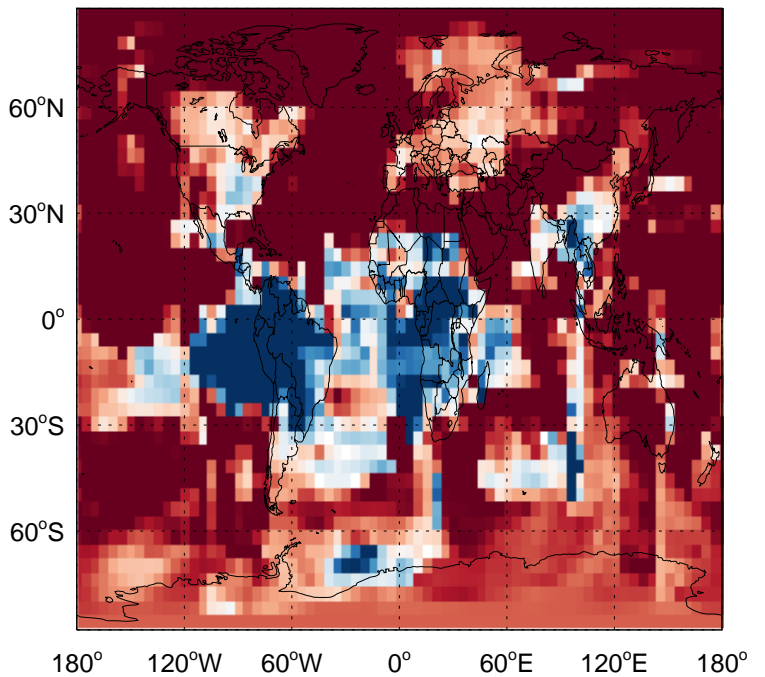
GC\_12.0.0 / v11-02f-Run1  
LIMO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
LIMO / Ratio @ Surface for Oct



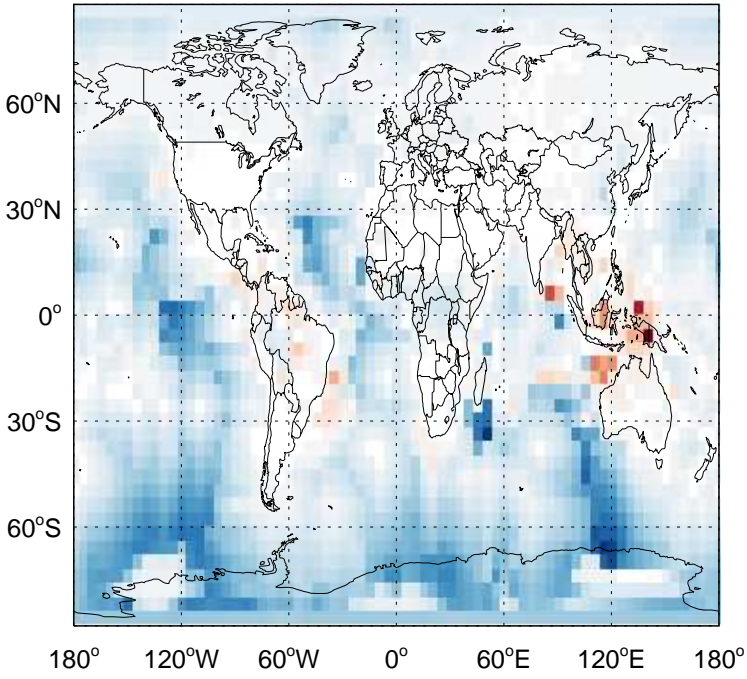
GC\_12.0.0 / v11-02e-Run1  
LIMO/ Ratio @ 500 hPa for Oct



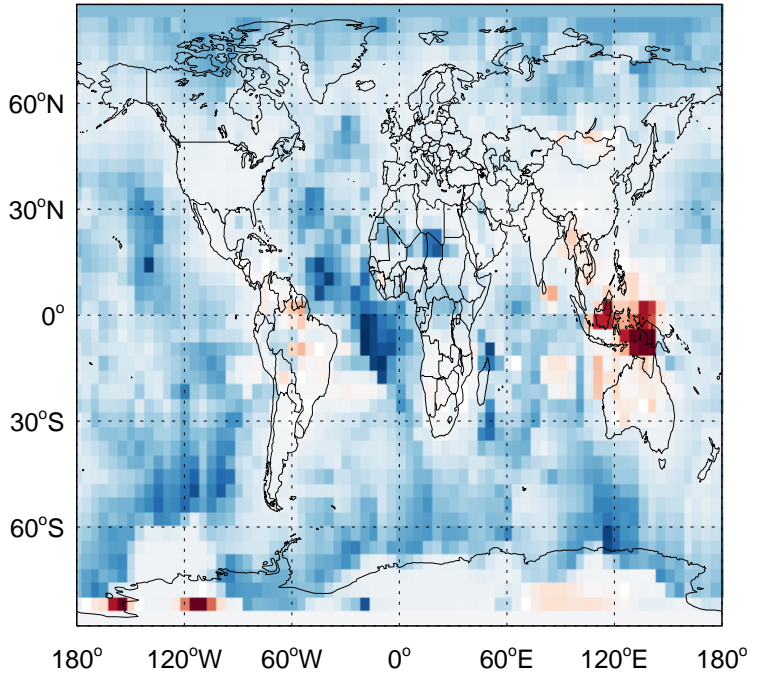


# GEOS-Chem Ratio Maps at surface and 500 hPa

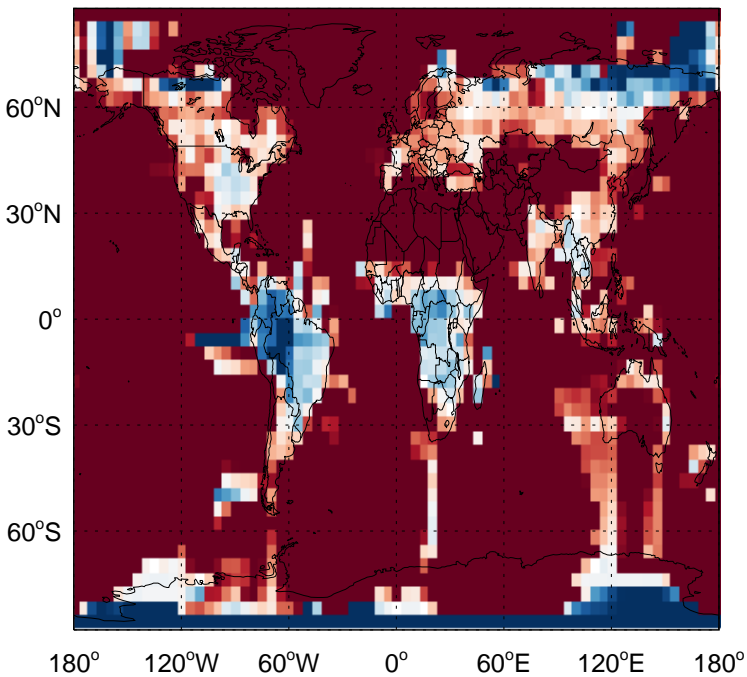
GC\_12.0.0 / v11-02f-Run1  
MTPO / Ratio @ Surface for Oct



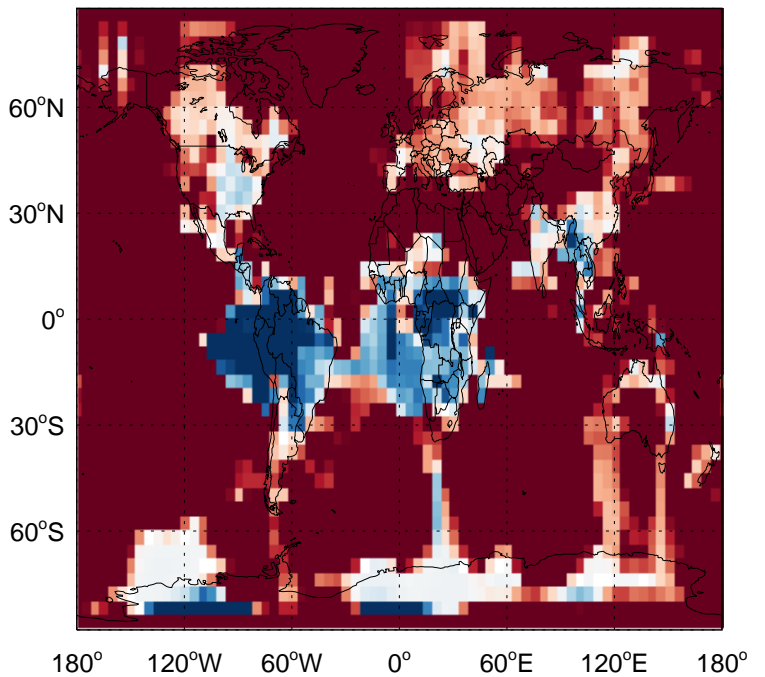
GC\_12.0.0 / v11-02f-Run1  
MTPO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MTPO / Ratio @ Surface for Oct



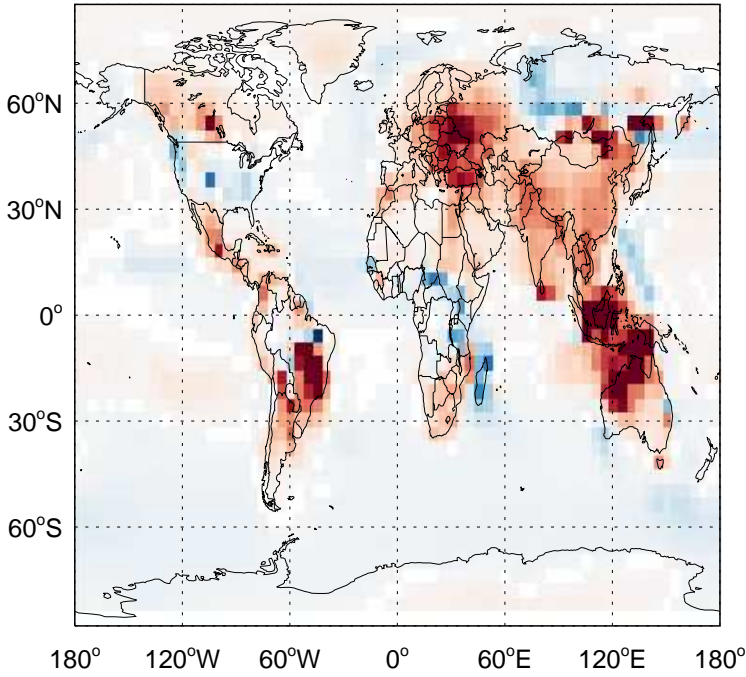
GC\_12.0.0 / v11-02e-Run1  
MTPO/ Ratio @ 500 hPa for Oct



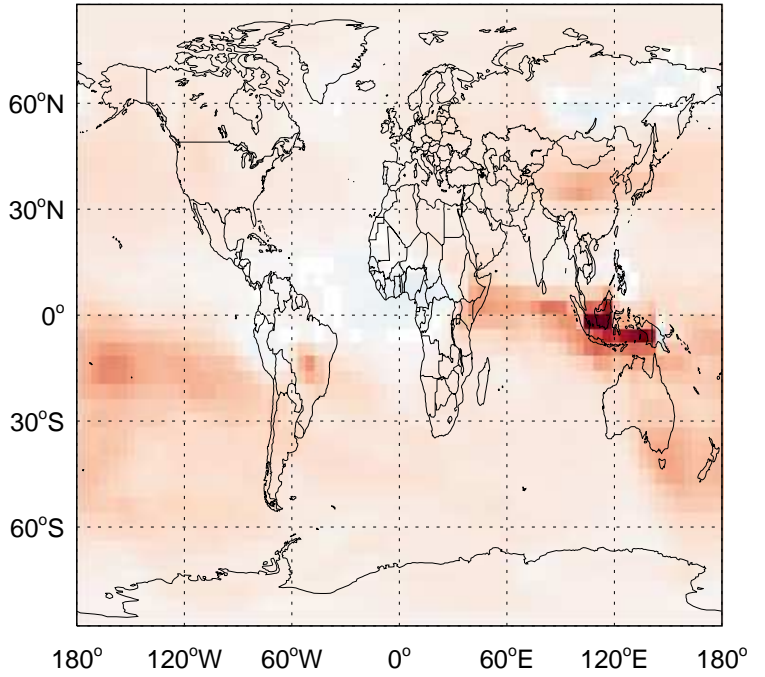


# GEOS-Chem Ratio Maps at surface and 500 hPa

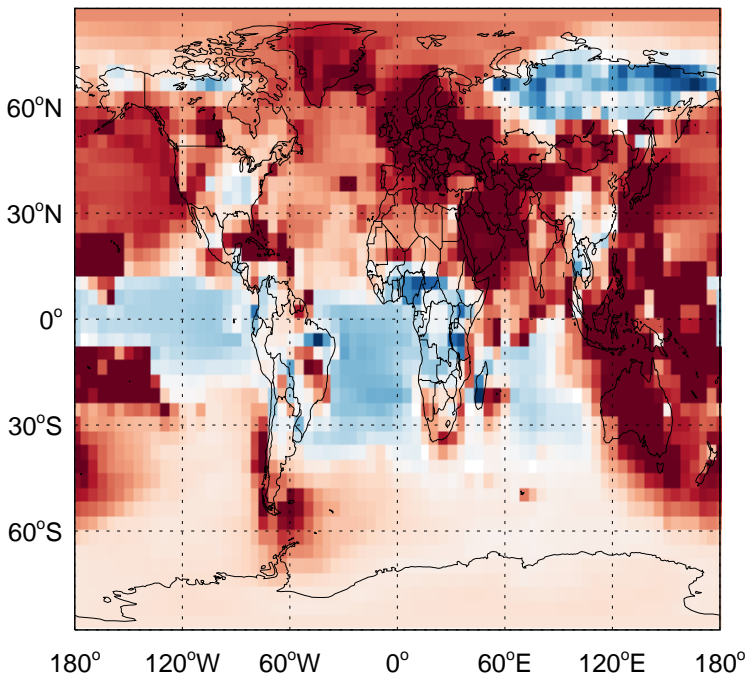
GC\_12.0.0 / v11-02f-Run1  
TSOG1 / Ratio @ Surface for Oct



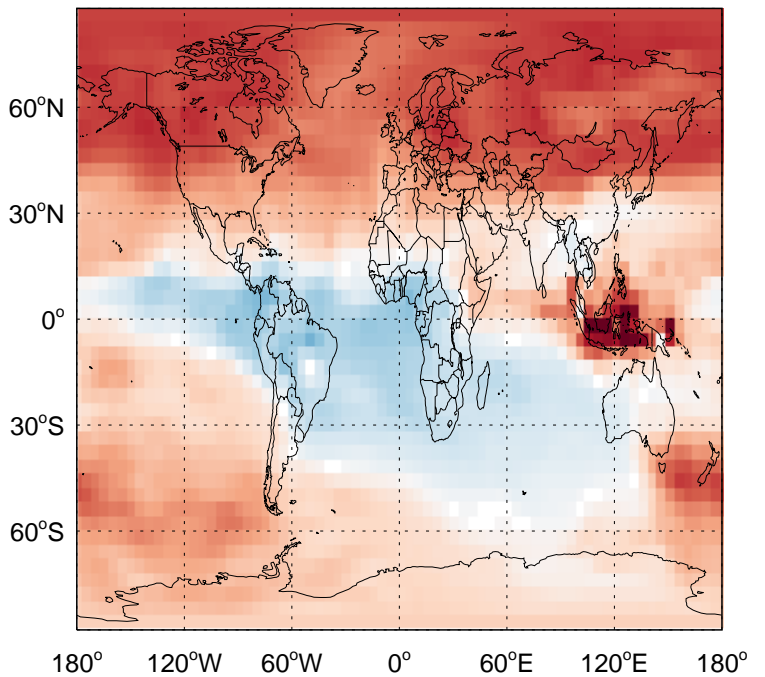
GC\_12.0.0 / v11-02f-Run1  
TSOG1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOG1 / Ratio @ Surface for Oct

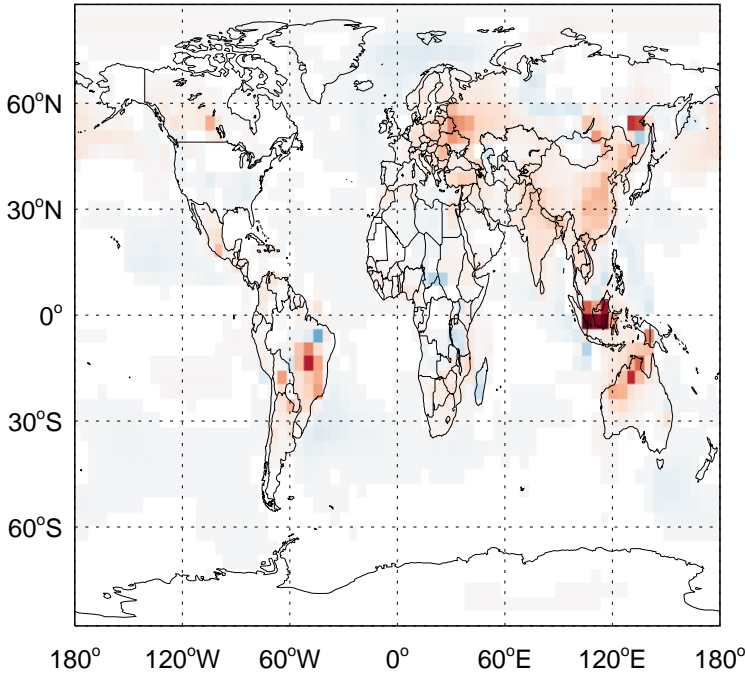


GC\_12.0.0 / v11-02e-Run1  
TSOG1/ Ratio @ 500 hPa for Oct

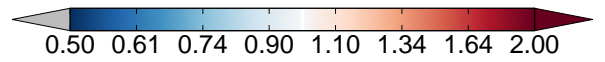
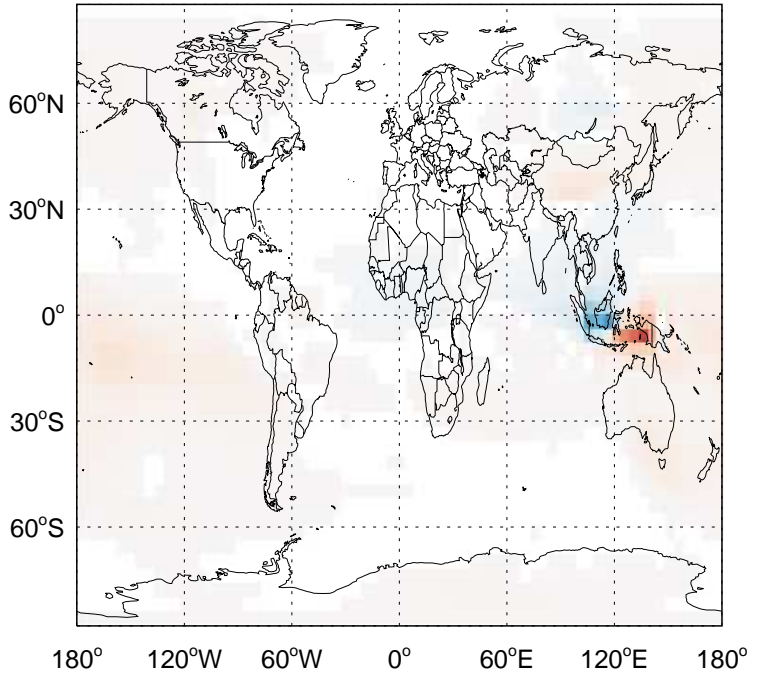


# GEOS-Chem Ratio Maps at surface and 500 hPa

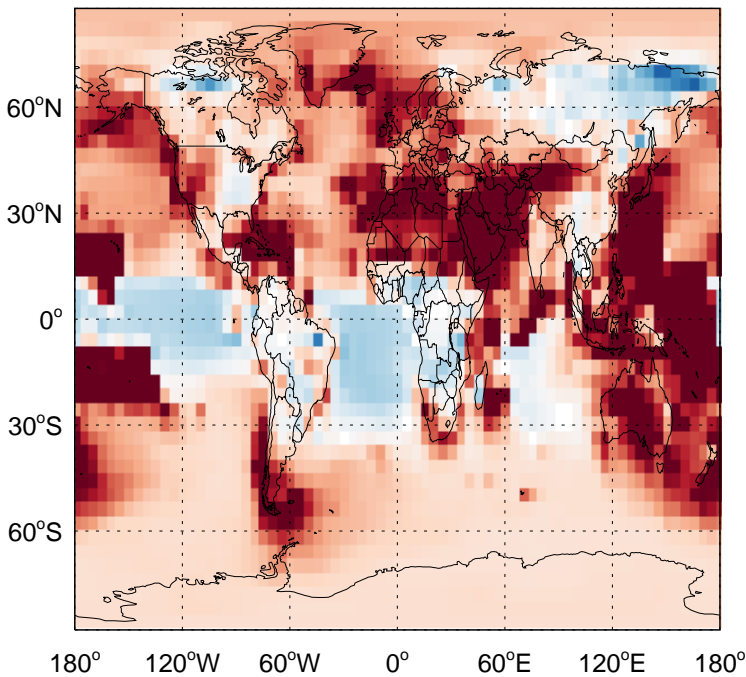
GC\_12.0.0 / v11-02f-Run1  
TSOG2 / Ratio @ Surface for Oct



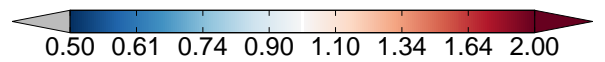
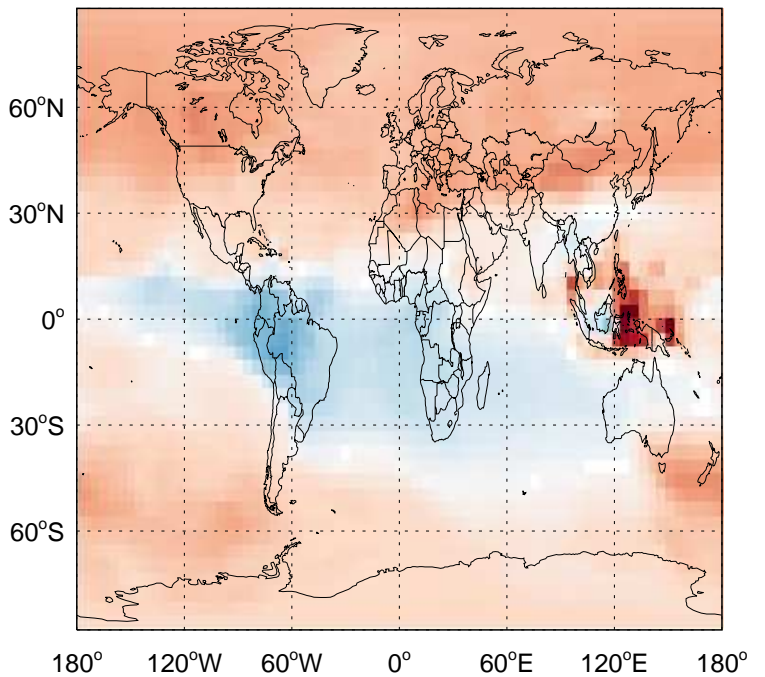
GC\_12.0.0 / v11-02f-Run1  
TSOG2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOG2 / Ratio @ Surface for Oct

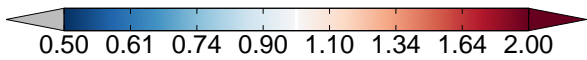
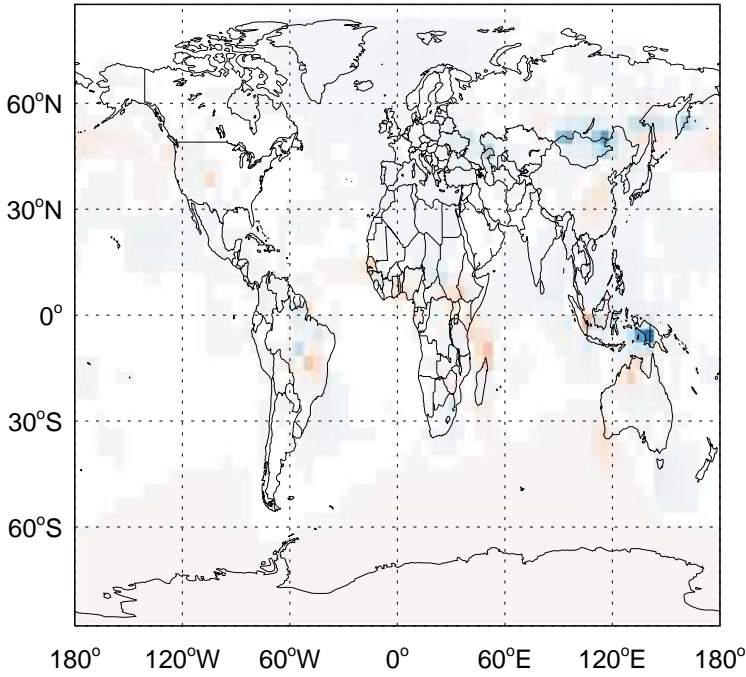


GC\_12.0.0 / v11-02e-Run1  
TSOG2 / Ratio @ 500 hPa for Oct

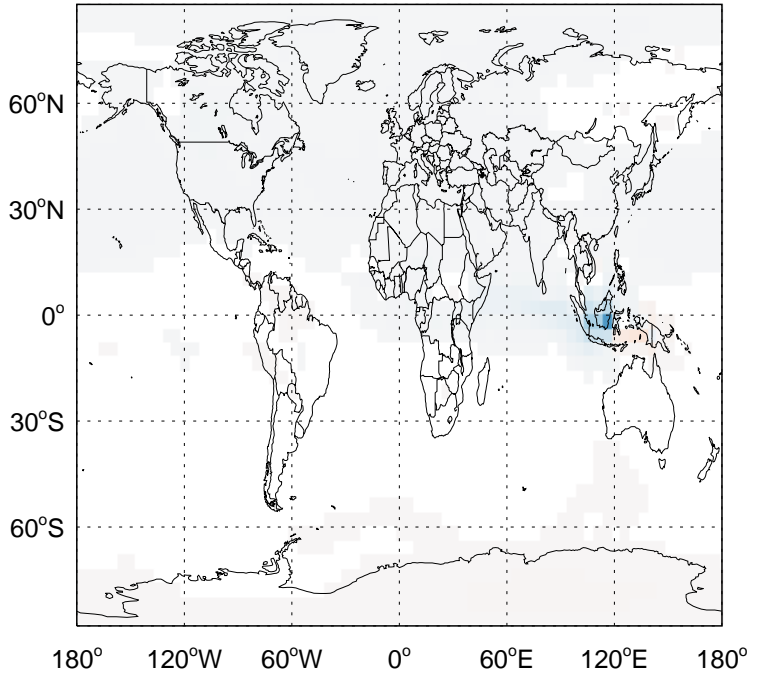


# GEOS-Chem Ratio Maps at surface and 500 hPa

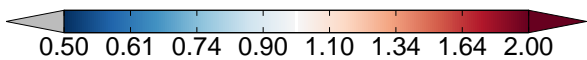
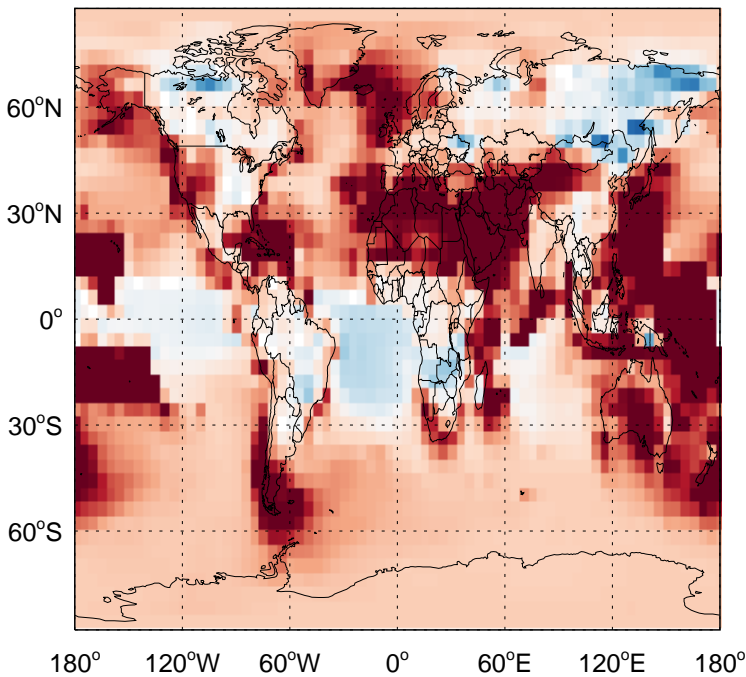
GC\_12.0.0 / v11-02f-Run1  
TSOG3 / Ratio @ Surface for Oct



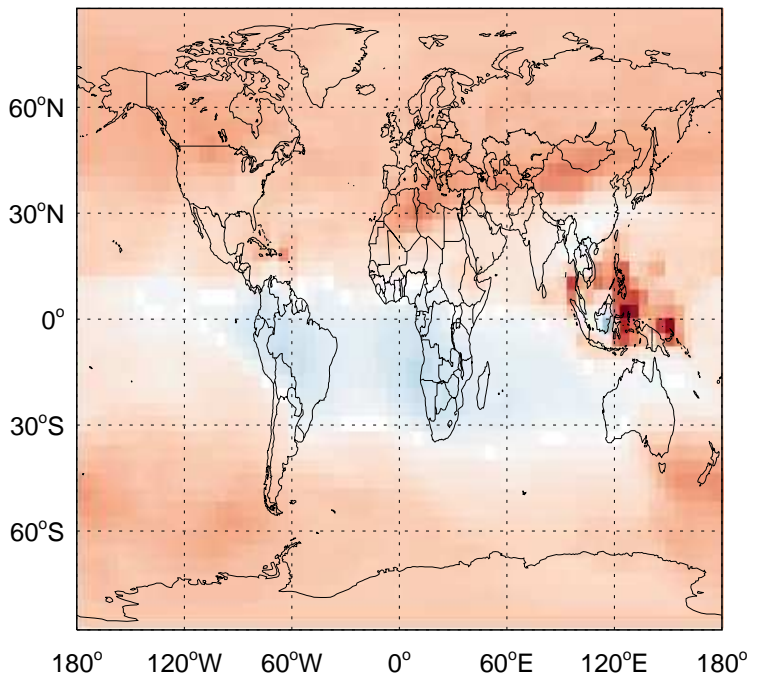
GC\_12.0.0 / v11-02f-Run1  
TSOG3 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOG3 / Ratio @ Surface for Oct



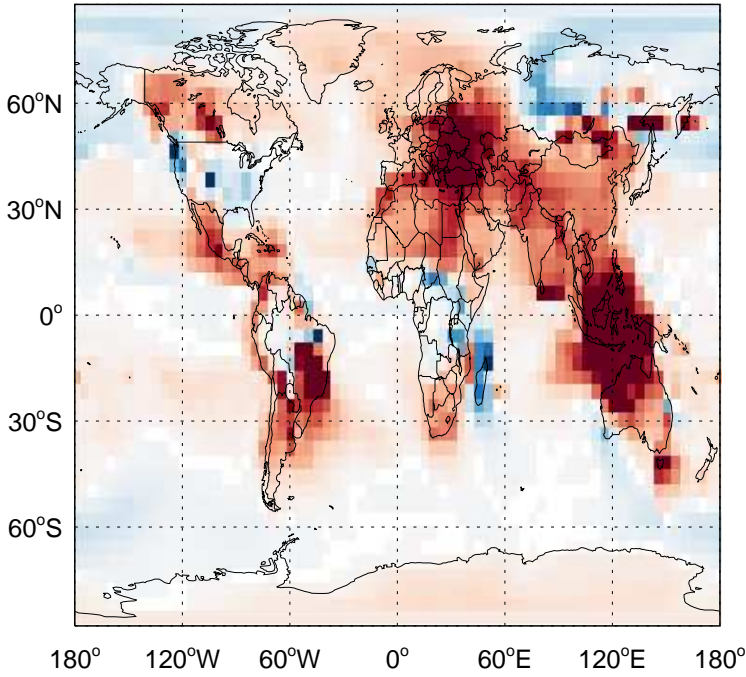
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TSOG3 / Ratio @ 500 hPa for Oct



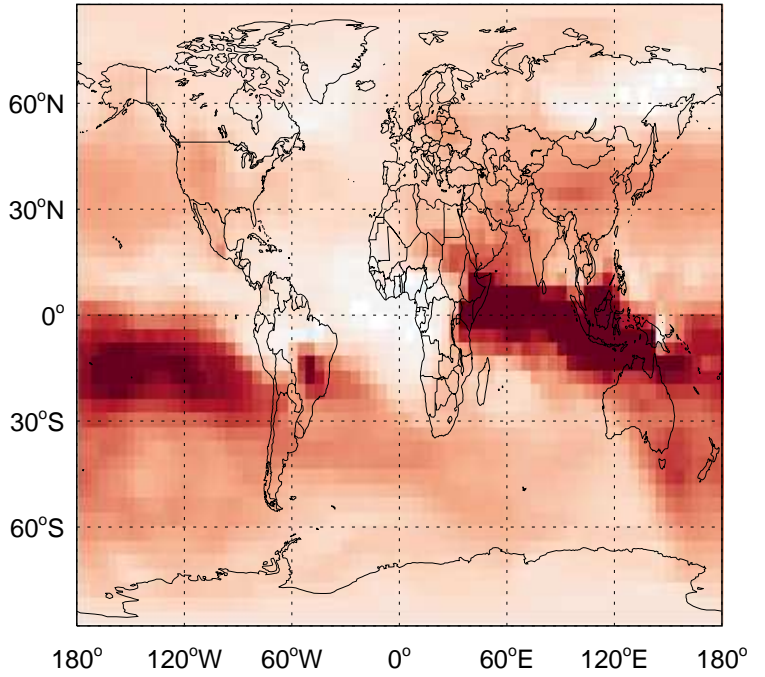


# GEOS-Chem Ratio Maps at surface and 500 hPa

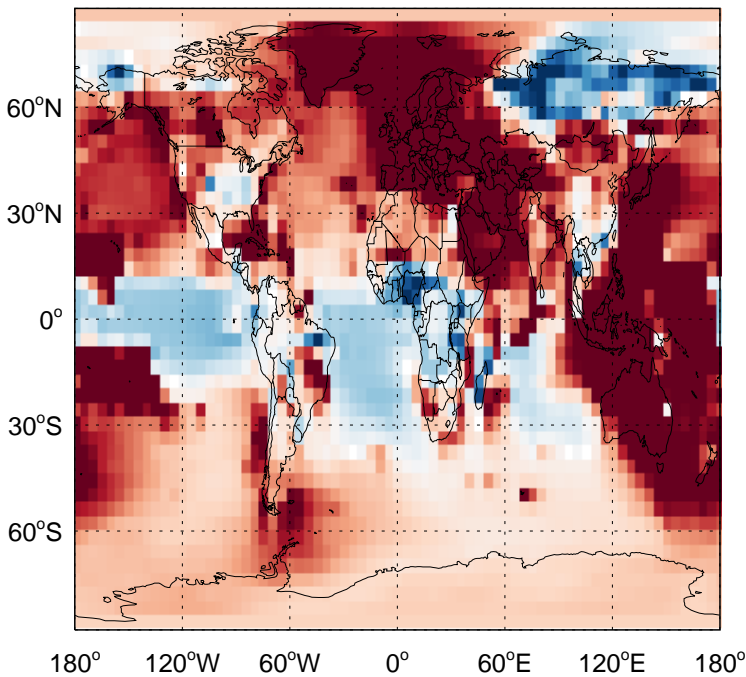
GC\_12.0.0 / v11-02f-Run1  
TSOG0 / Ratio @ Surface for Oct



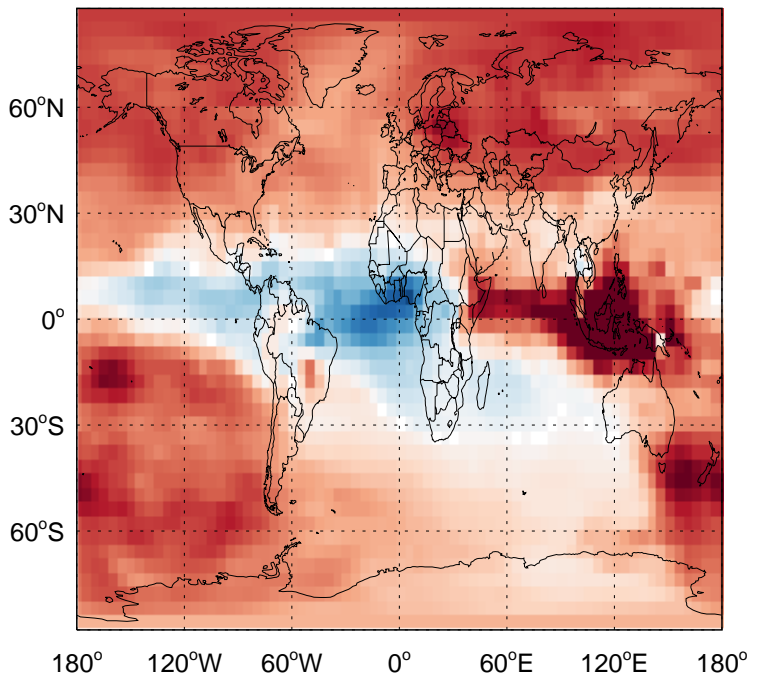
GC\_12.0.0 / v11-02f-Run1  
TSOG0/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOG0 / Ratio @ Surface for Oct

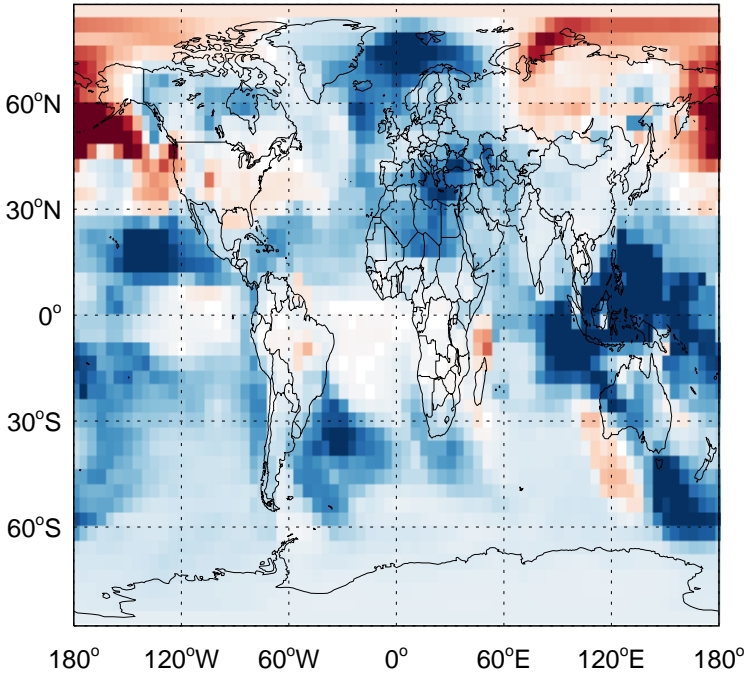


GC\_12.0.0 / v11-02e-Run1  
TSOG0/ Ratio @ 500 hPa for Oct

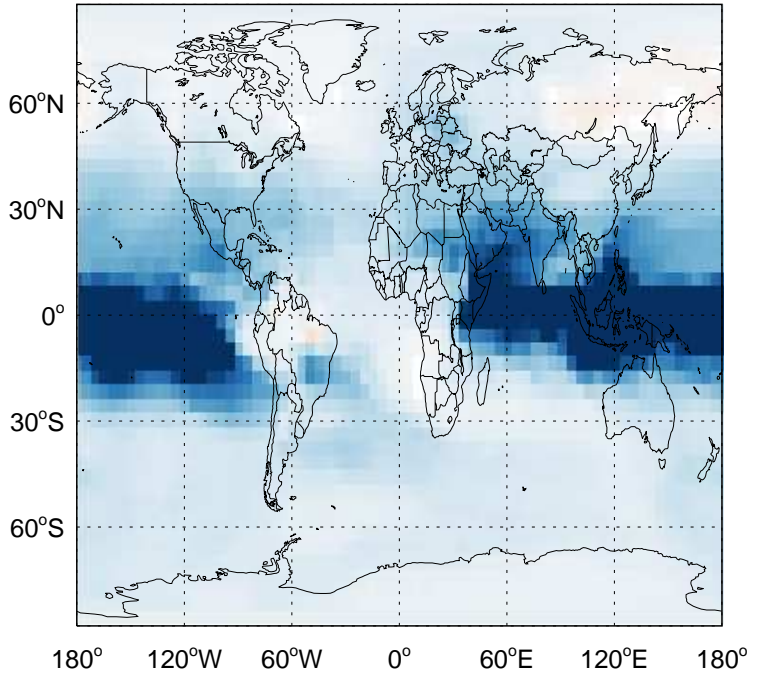


# GEOS-Chem Ratio Maps at surface and 500 hPa

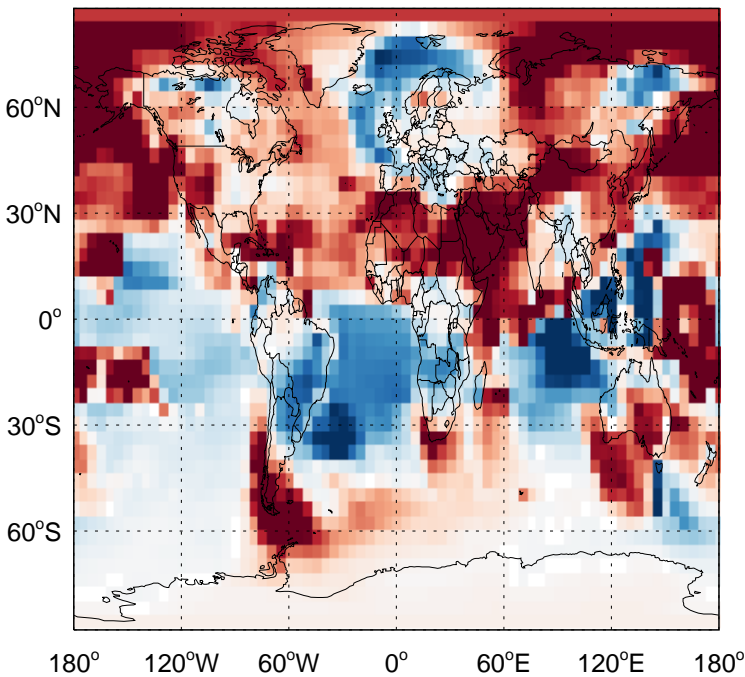
GC\_12.0.0 / v11-02f-Run1  
TSOA1 / Ratio @ Surface for Oct



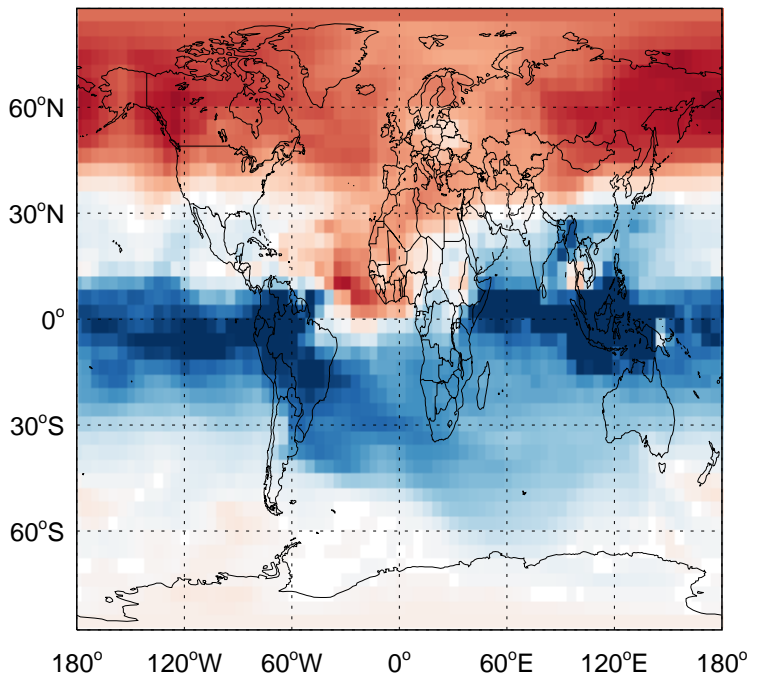
GC\_12.0.0 / v11-02f-Run1  
TSOA1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOA1 / Ratio @ Surface for Oct

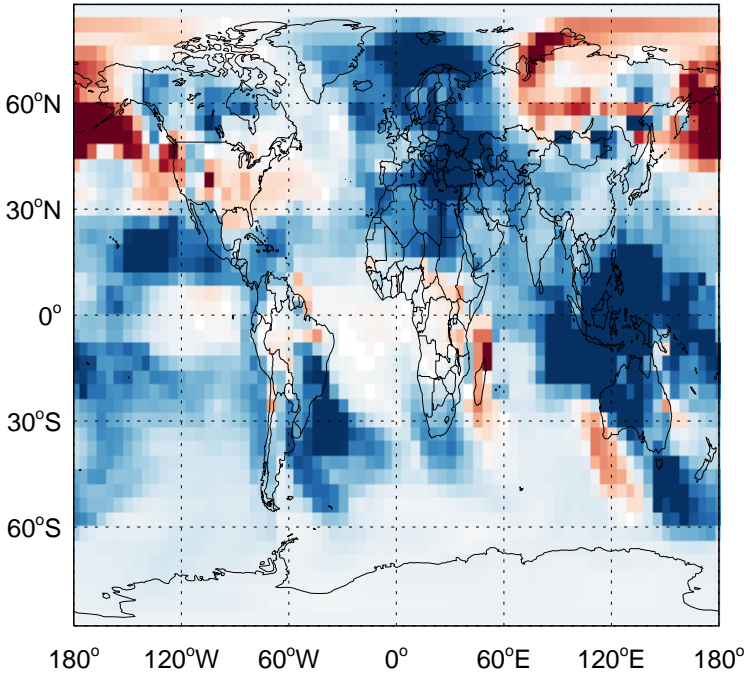


GC\_12.0.0 / v11-02e-Run1  
TSOA1/ Ratio @ 500 hPa for Oct

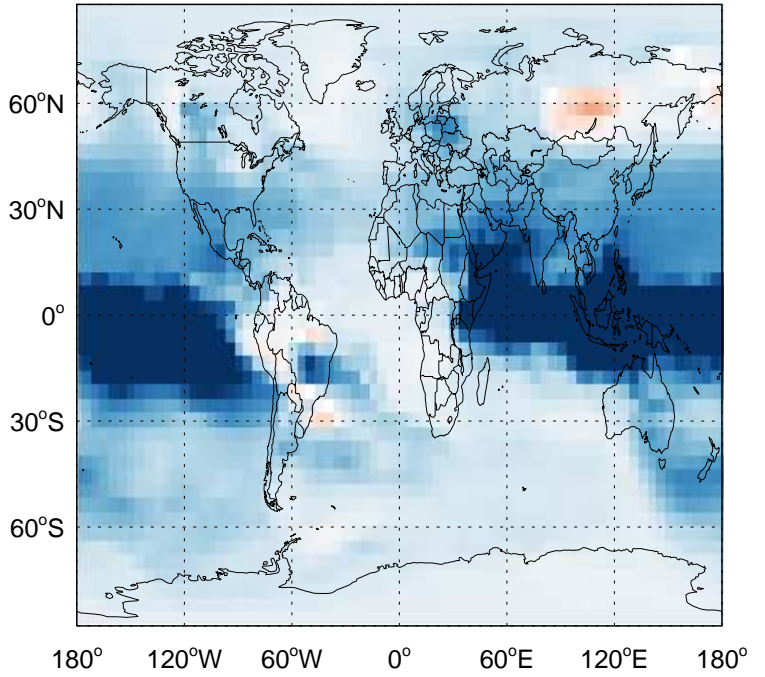


# GEOS-Chem Ratio Maps at surface and 500 hPa

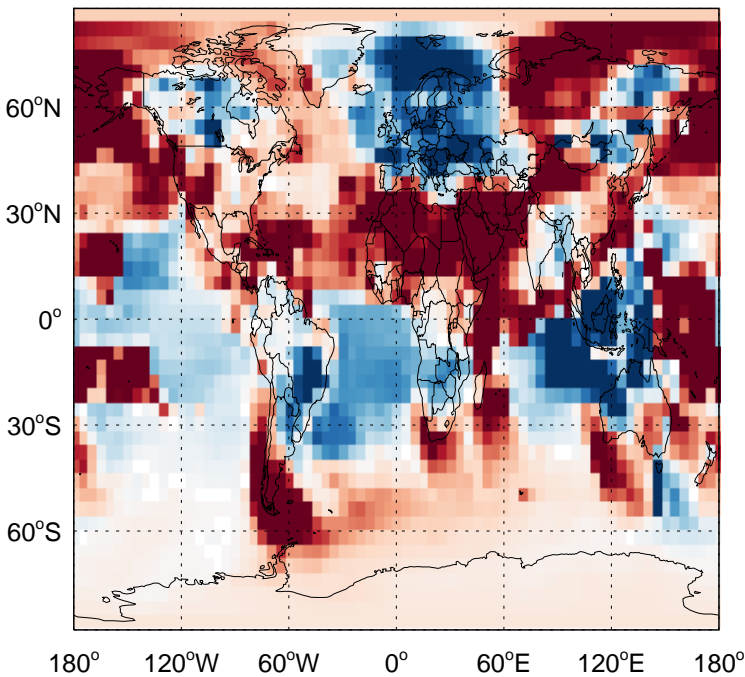
GC\_12.0.0 / v11-02f-Run1  
TSOA2 / Ratio @ Surface for Oct



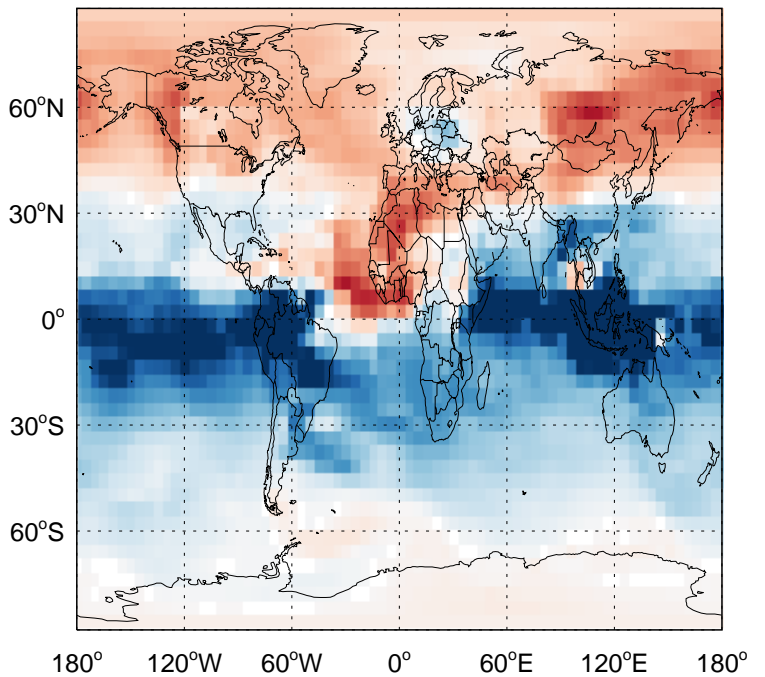
GC\_12.0.0 / v11-02f-Run1  
TSOA2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOA2 / Ratio @ Surface for Oct



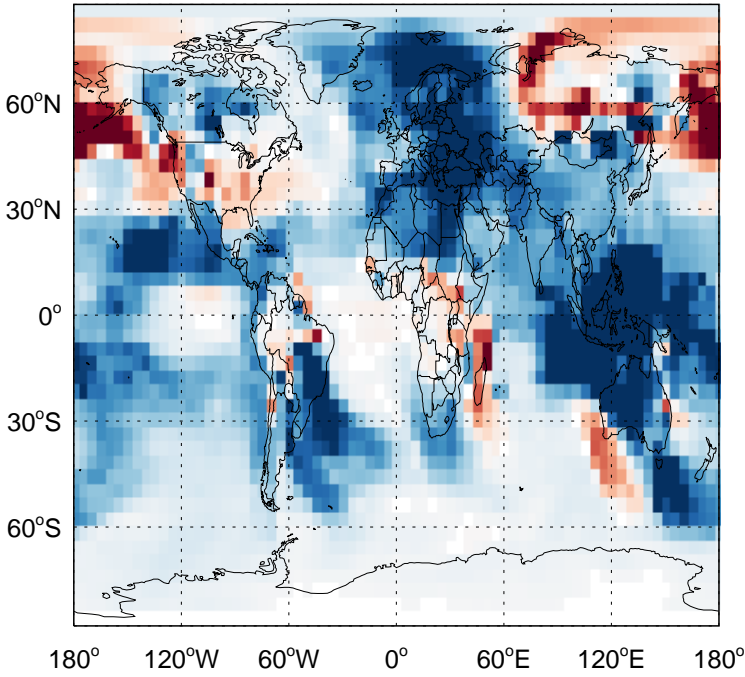
GC\_12.0.0 / v11-02e-Run1  
TSOA2 / Ratio @ 500 hPa for Oct



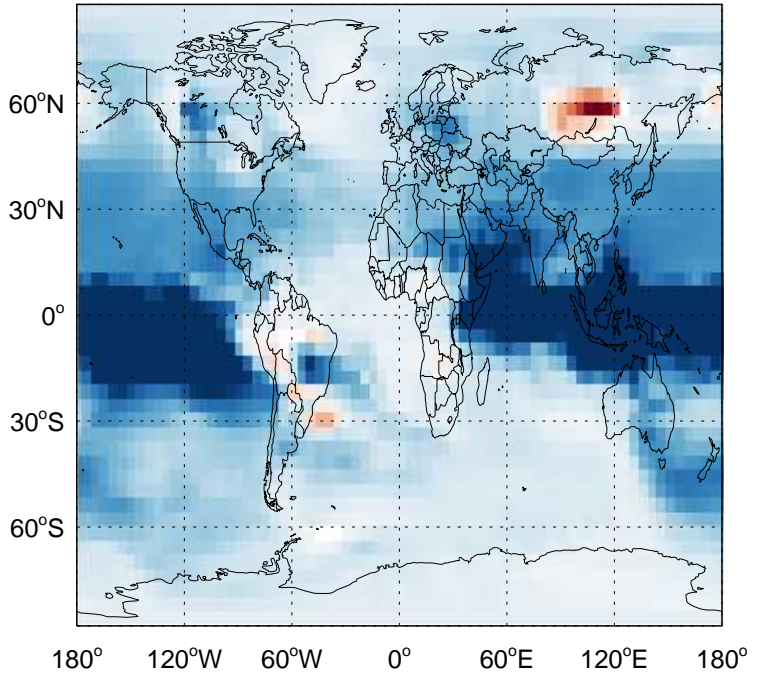


# GEOS-Chem Ratio Maps at surface and 500 hPa

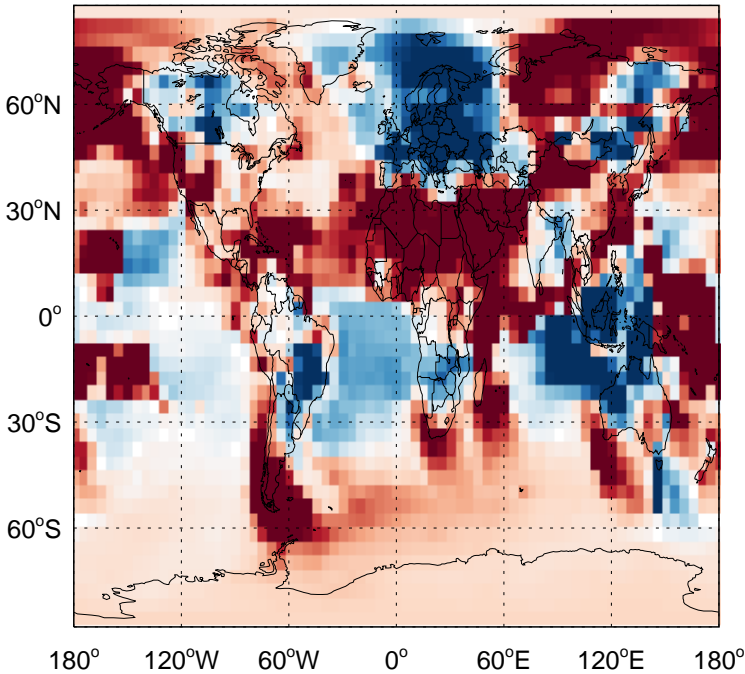
GC\_12.0.0 / v11-02f-Run1  
TSOA3 / Ratio @ Surface for Oct



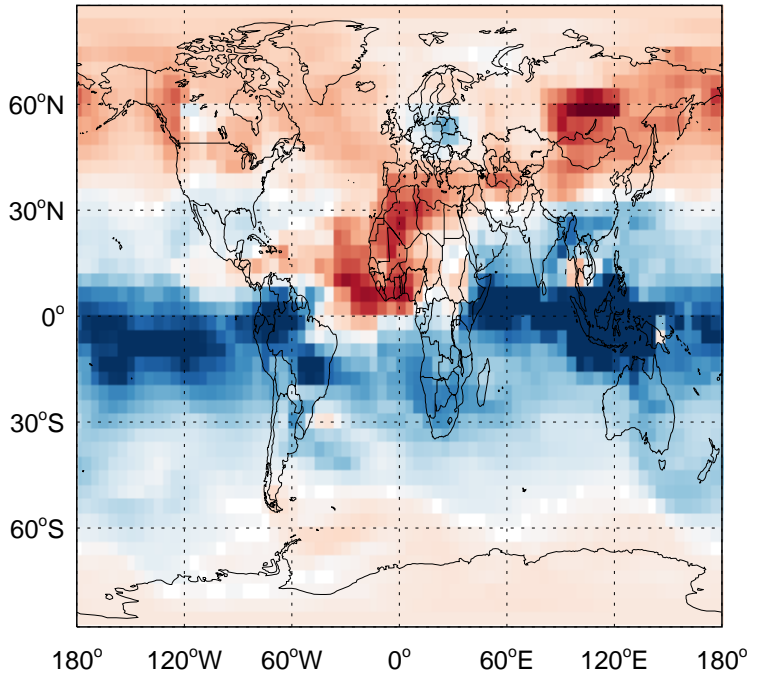
GC\_12.0.0 / v11-02f-Run1  
TSOA3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOA3 / Ratio @ Surface for Oct

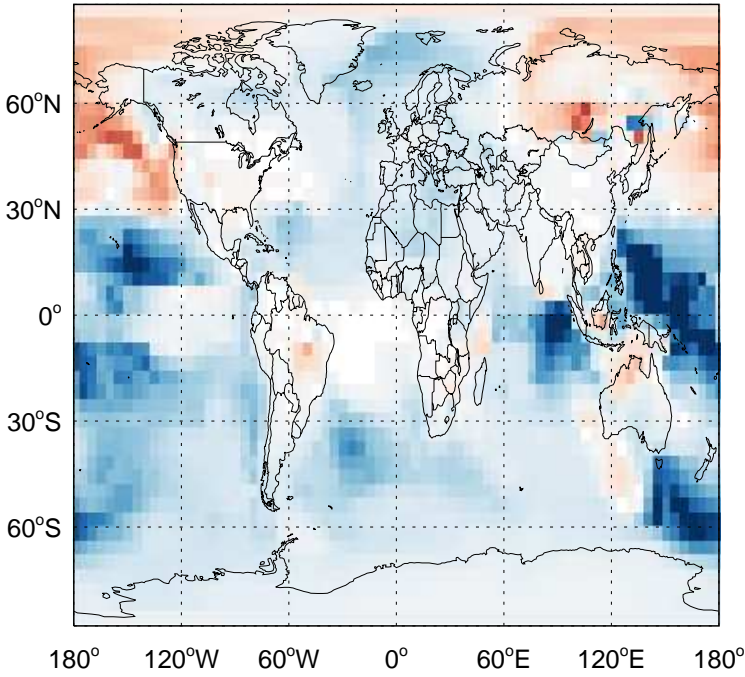


GC\_12.0.0 / v11-02e-Run1  
TSOA3/ Ratio @ 500 hPa for Oct

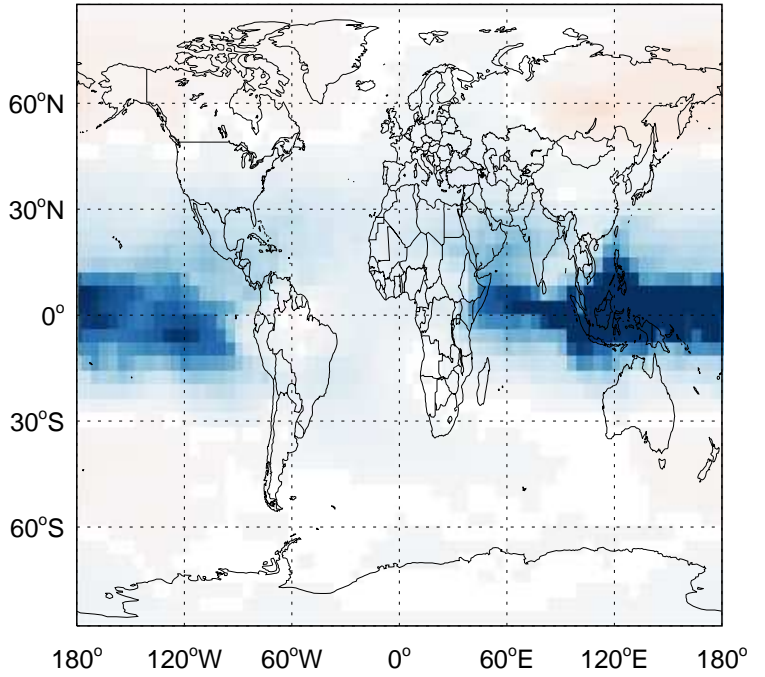


# GEOS-Chem Ratio Maps at surface and 500 hPa

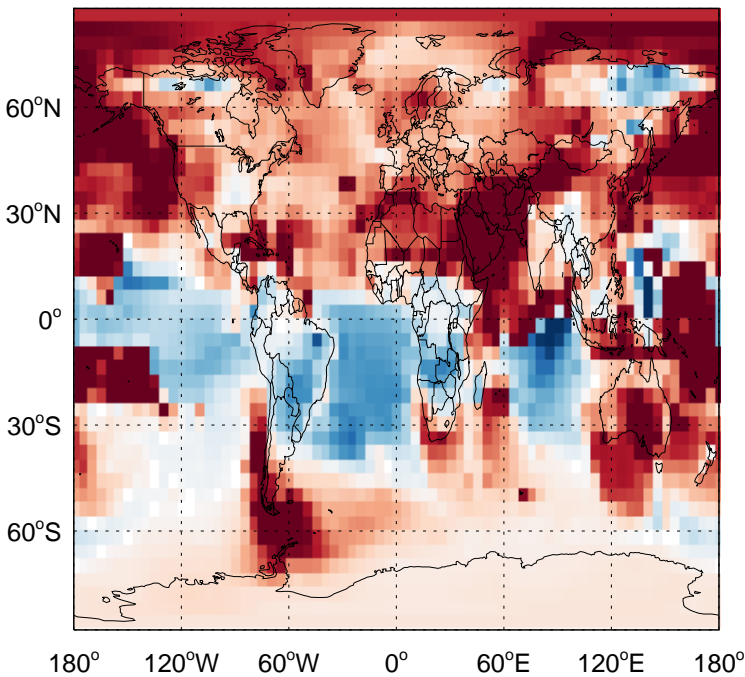
GC\_12.0.0 / v11-02f-Run1  
TSOA0 / Ratio @ Surface for Oct



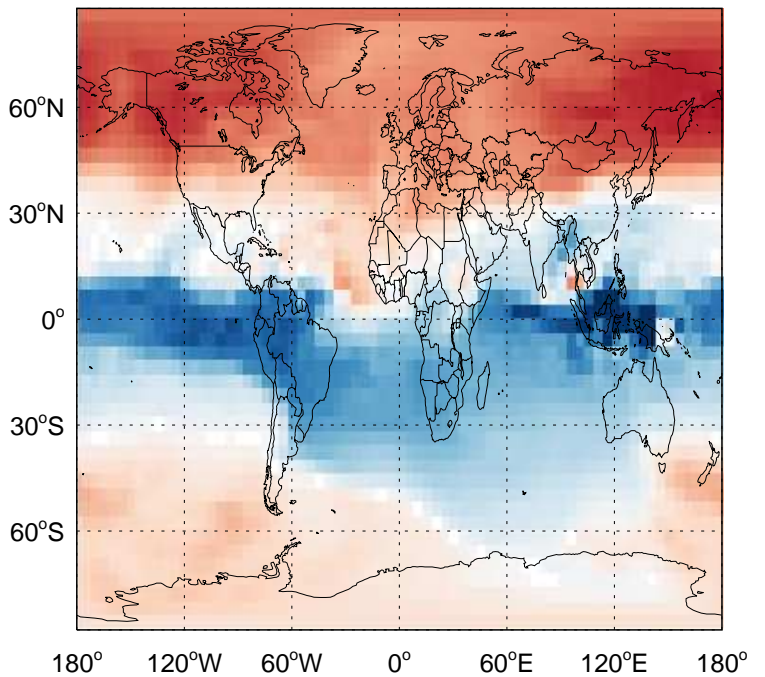
GC\_12.0.0 / v11-02f-Run1  
TSOA0/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
TSOA0 / Ratio @ Surface for Oct

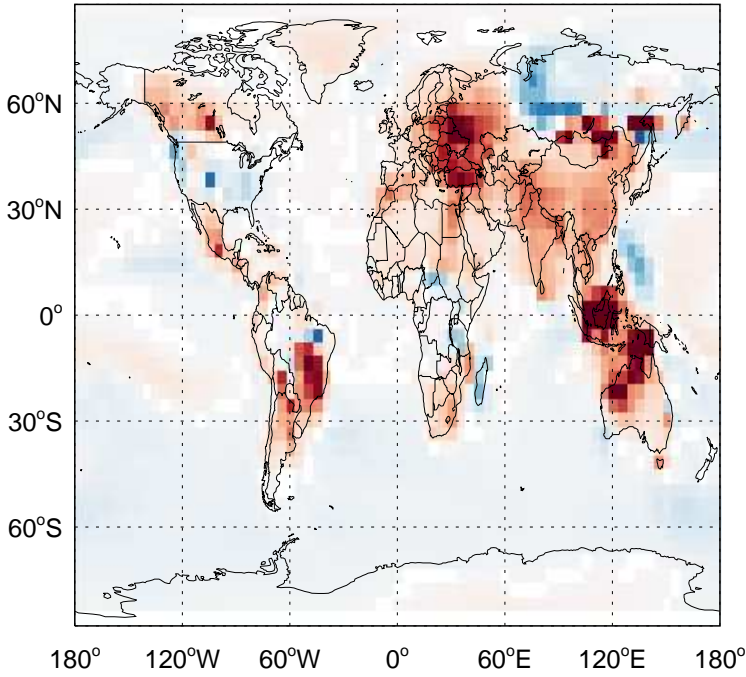


GC\_12.0.0 / v11-02e-Run1  
TSOA0/ Ratio @ 500 hPa for Oct

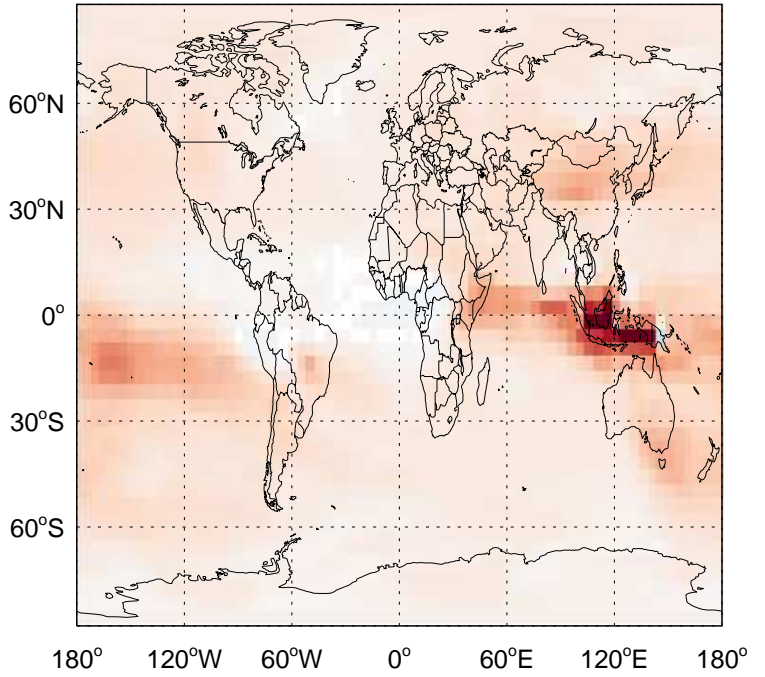


# GEOS-Chem Ratio Maps at surface and 500 hPa

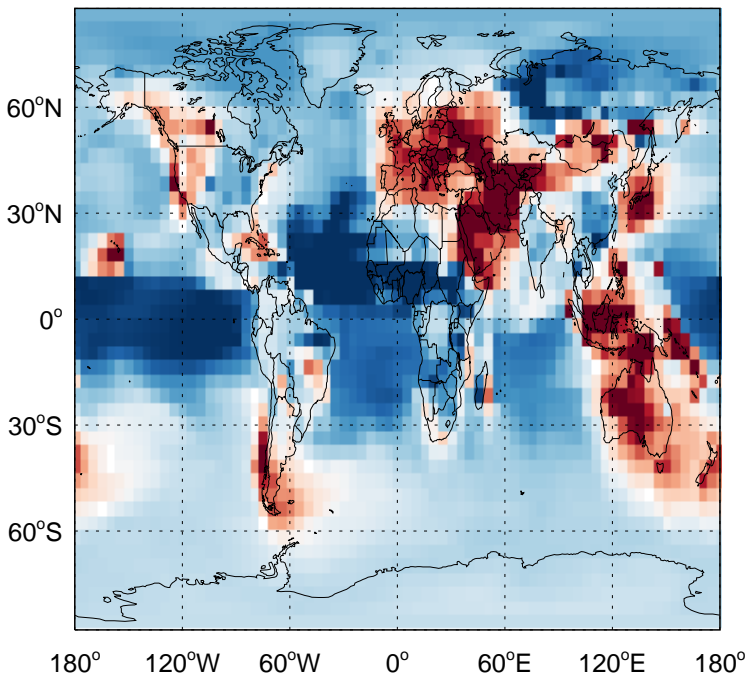
GC\_12.0.0 / v11-02f-Run1  
ISOG1 / Ratio @ Surface for Oct



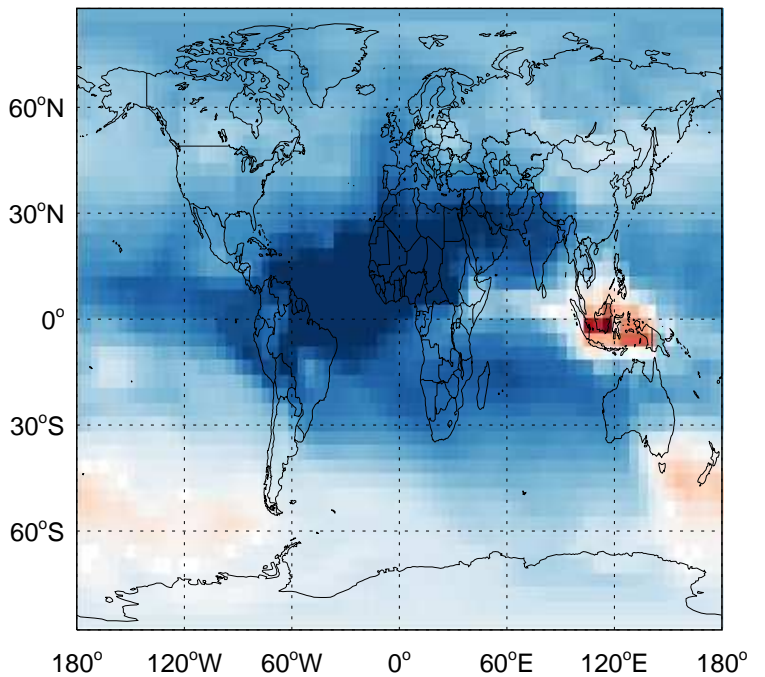
GC\_12.0.0 / v11-02f-Run1  
ISOG1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOG1 / Ratio @ Surface for Oct



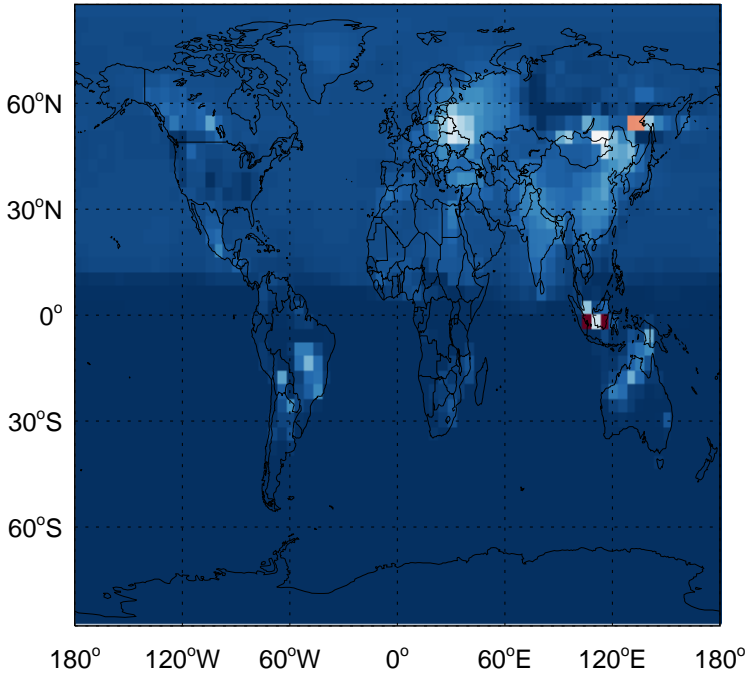
GC\_12.0.0 / v11-02e-Run1  
ISOG1/ Ratio @ 500 hPa for Oct



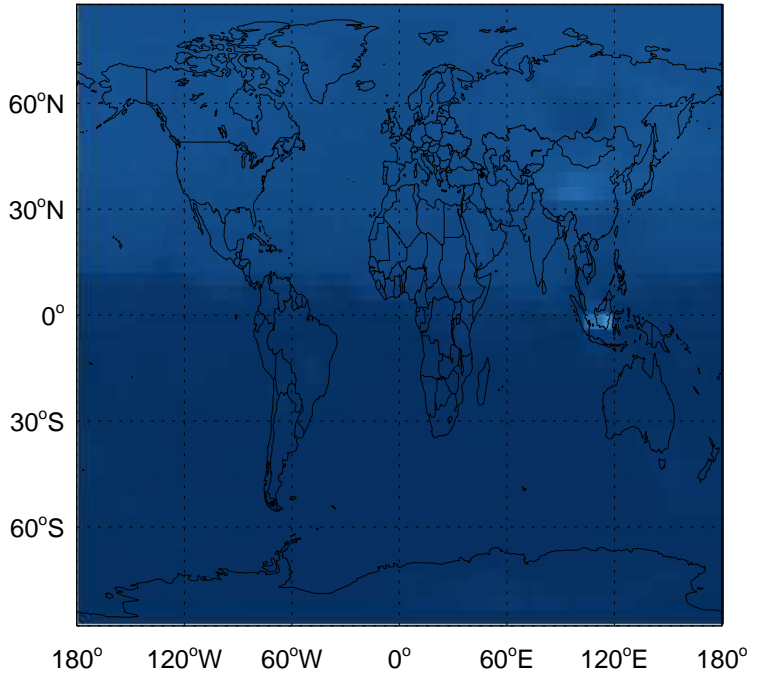


# GEOS-Chem Ratio Maps at surface and 500 hPa

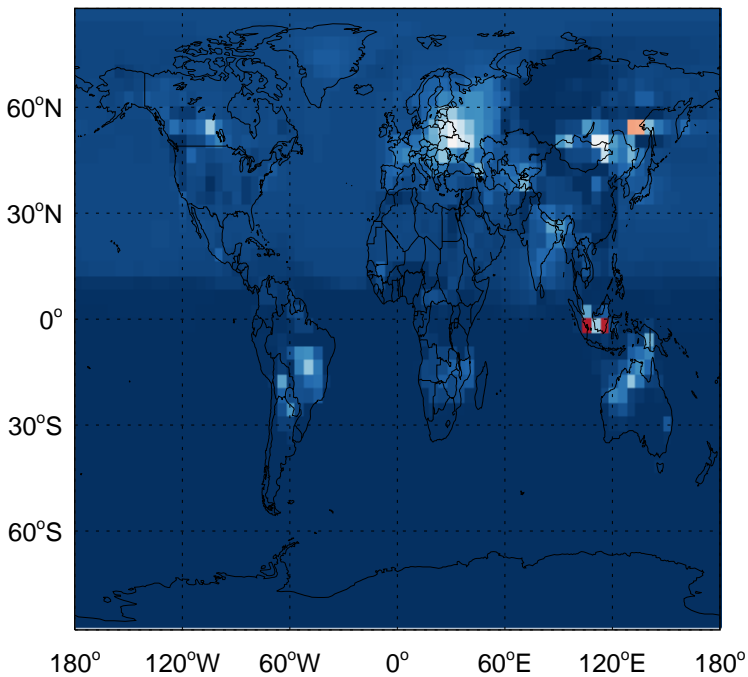
GC\_12.0.0 / v11-02f-Run1  
ISO<sub>G2</sub> / Ratio @ Surface for Oct



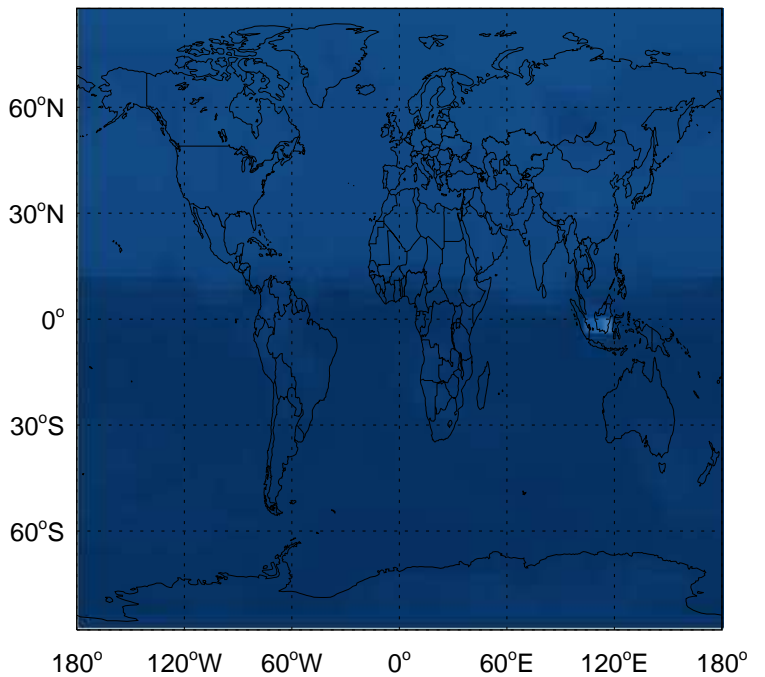
GC\_12.0.0 / v11-02f-Run1  
ISO<sub>G2</sub> / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISO<sub>G2</sub> / Ratio @ Surface for Oct

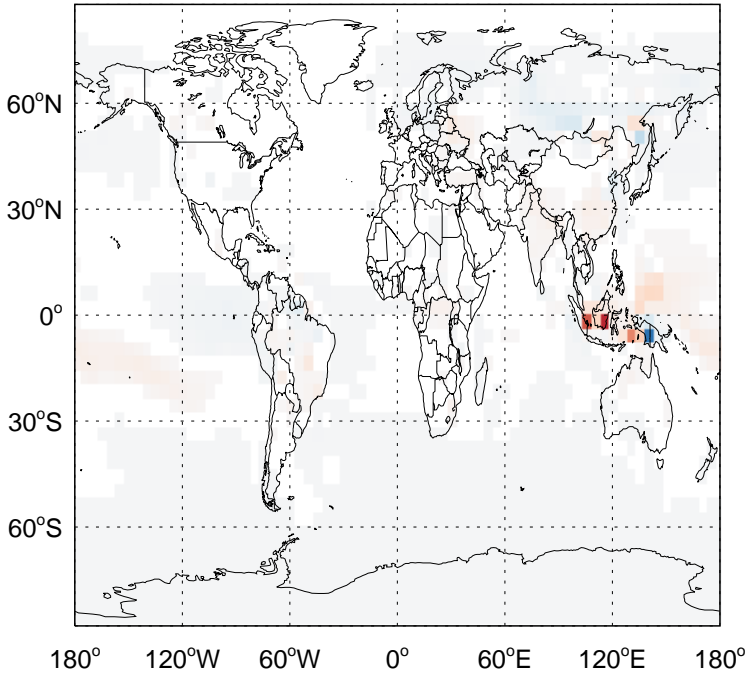


GC\_12.0.0 / v11-02e-Run1  
ISO<sub>G2</sub> / Ratio @ 500 hPa for Oct

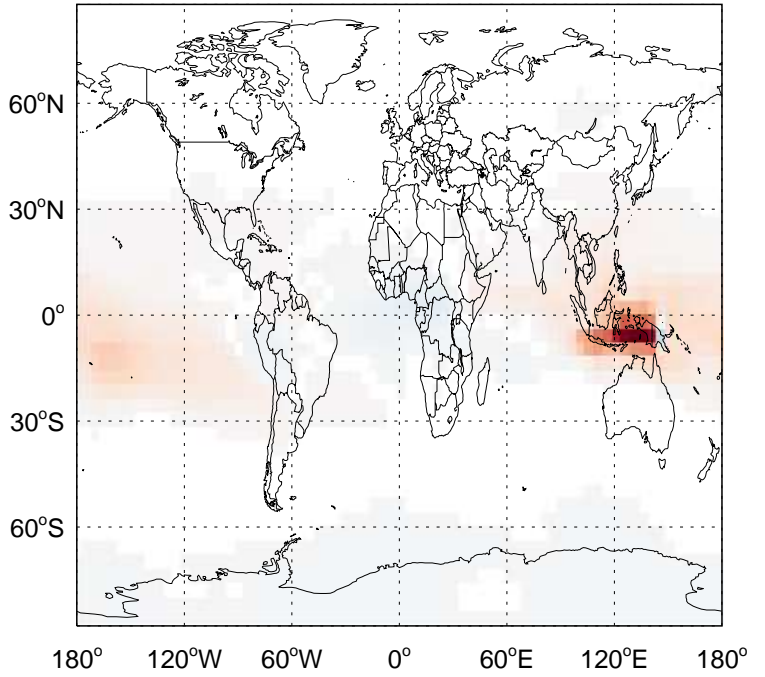


# GEOS-Chem Ratio Maps at surface and 500 hPa

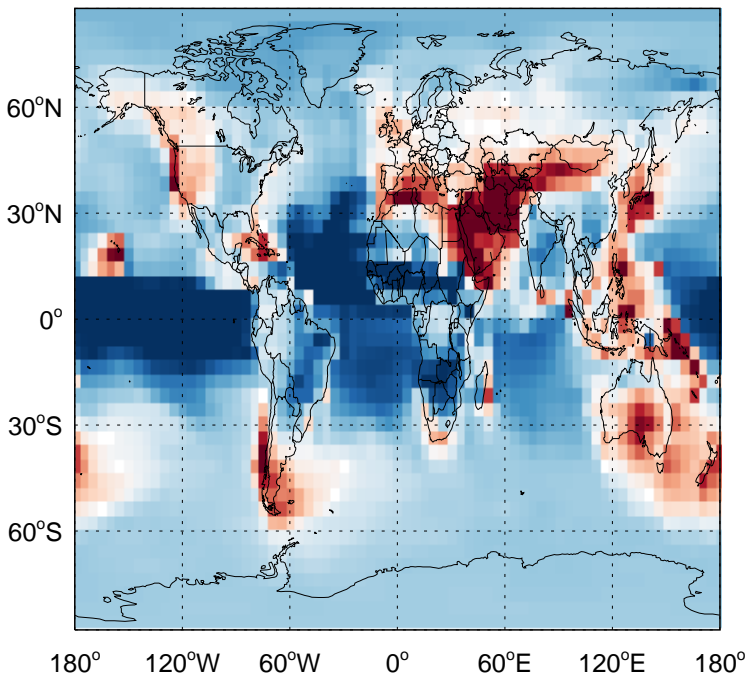
GC\_12.0.0 / v11-02f-Run1  
ISO3 / Ratio @ Surface for Oct



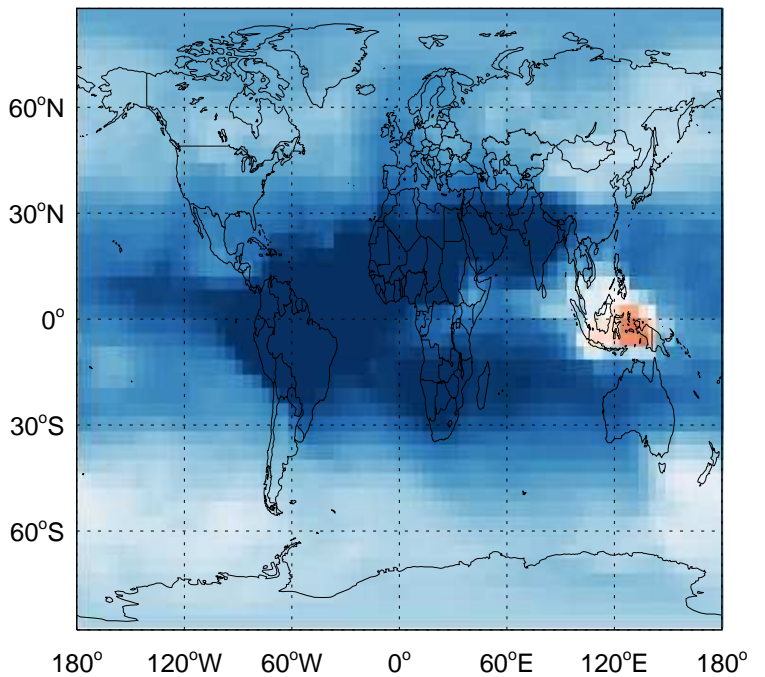
GC\_12.0.0 / v11-02f-Run1  
ISO3 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISO3 / Ratio @ Surface for Oct

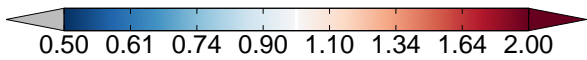
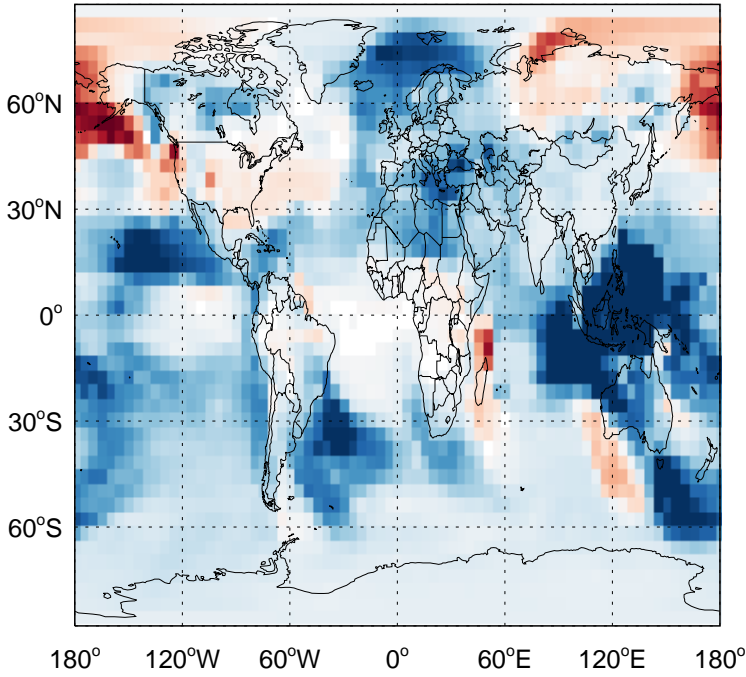


GC\_12.0.0 / v11-02e-Run1  
ISO3 / Ratio @ 500 hPa for Oct

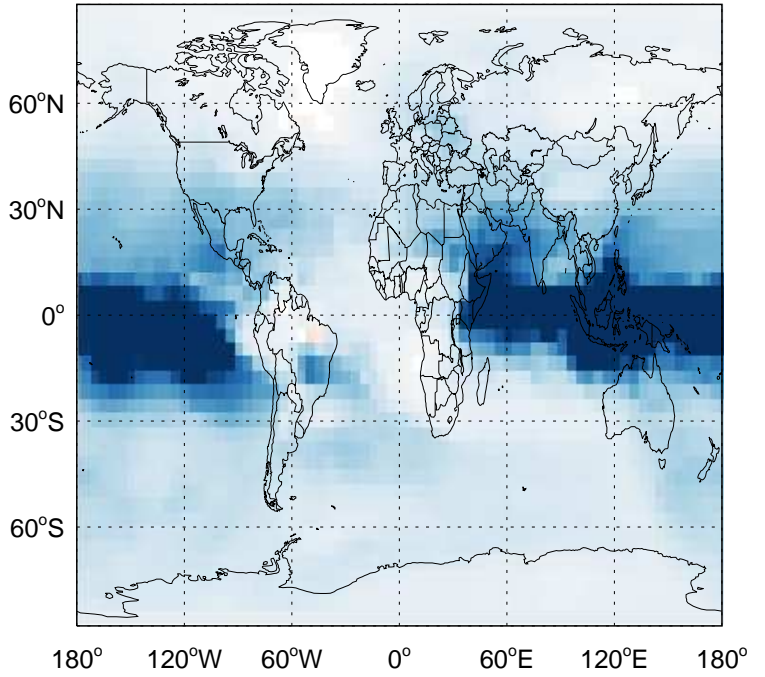


# GEOS-Chem Ratio Maps at surface and 500 hPa

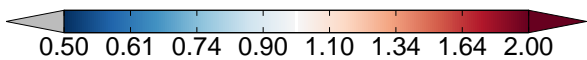
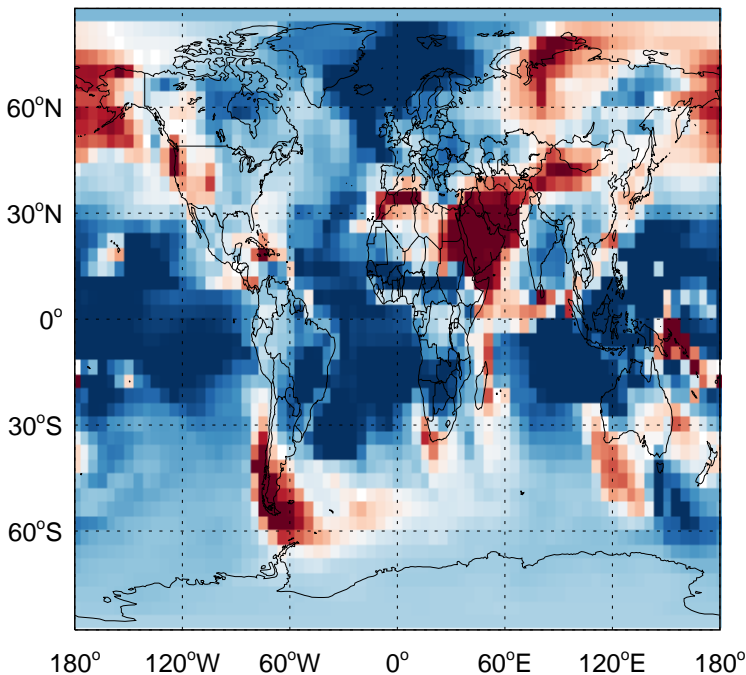
GC\_12.0.0 / v11-02f-Run1  
ISOA1 / Ratio @ Surface for Oct



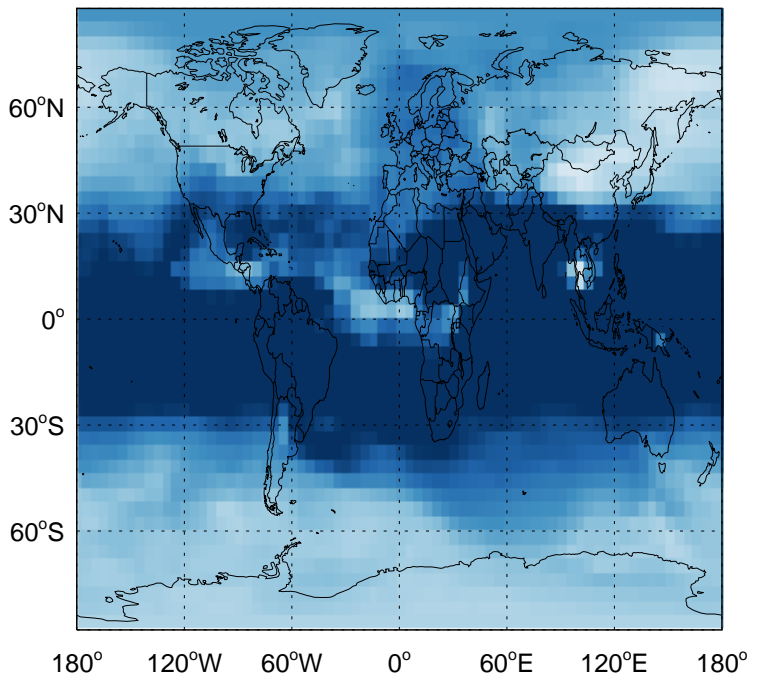
GC\_12.0.0 / v11-02f-Run1  
ISOA1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOA1 / Ratio @ Surface for Oct



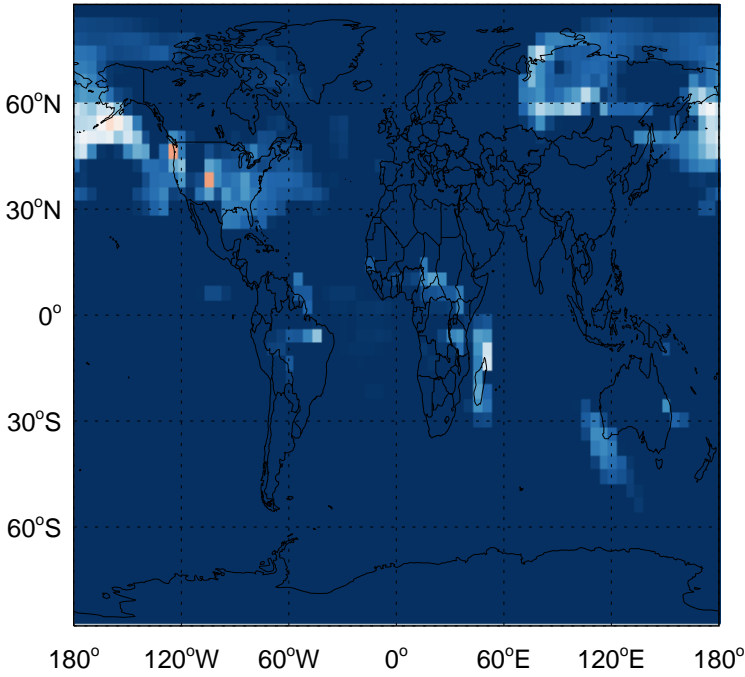
GC\_12.0.0 / v11-02e-Run1  
ISOA1/ Ratio @ 500 hPa for Oct



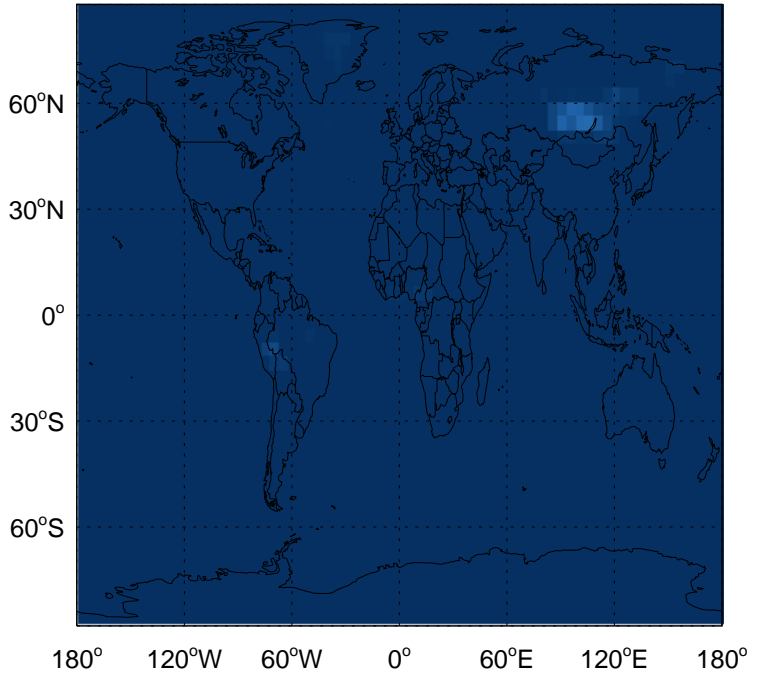


# GEOS-Chem Ratio Maps at surface and 500 hPa

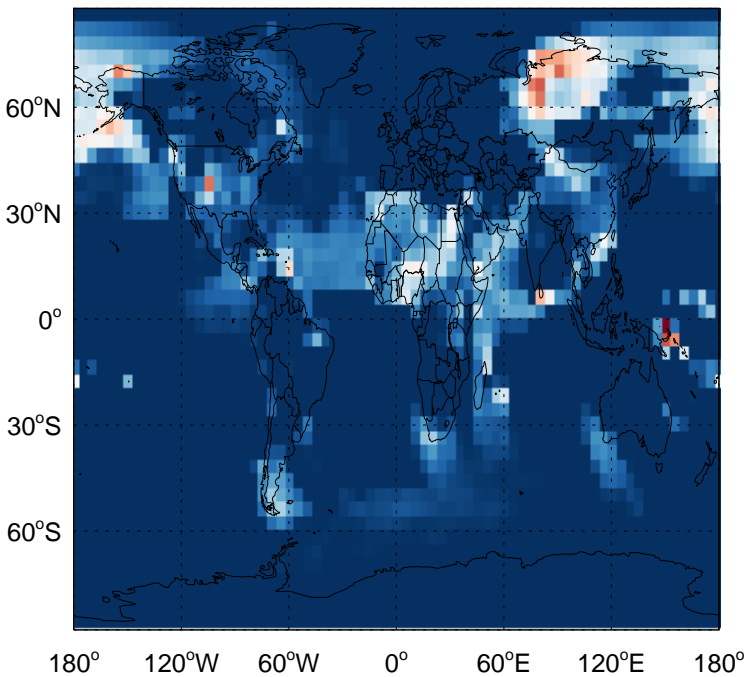
GC\_12.0.0 / v11-02f-Run1  
ISOA2 / Ratio @ Surface for Oct



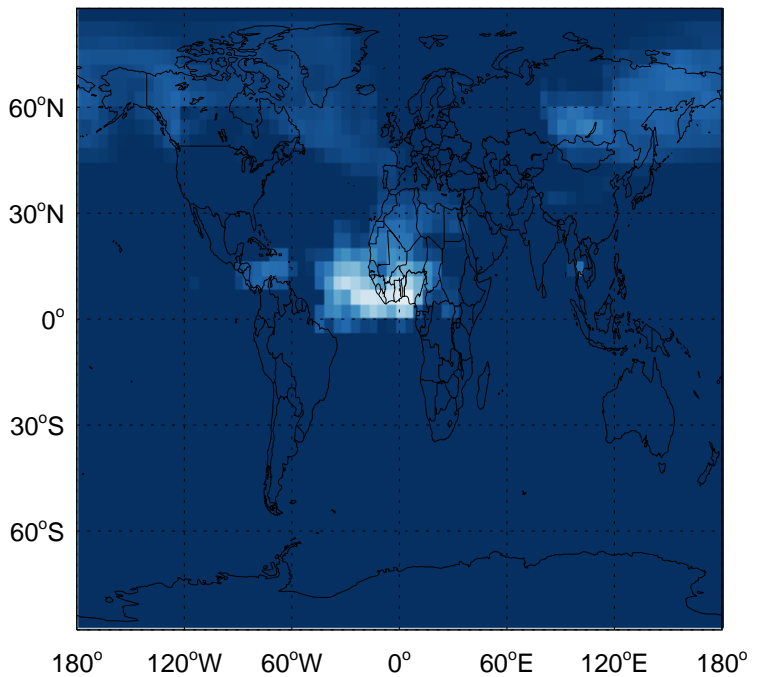
GC\_12.0.0 / v11-02f-Run1  
ISOA2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOA2 / Ratio @ Surface for Oct

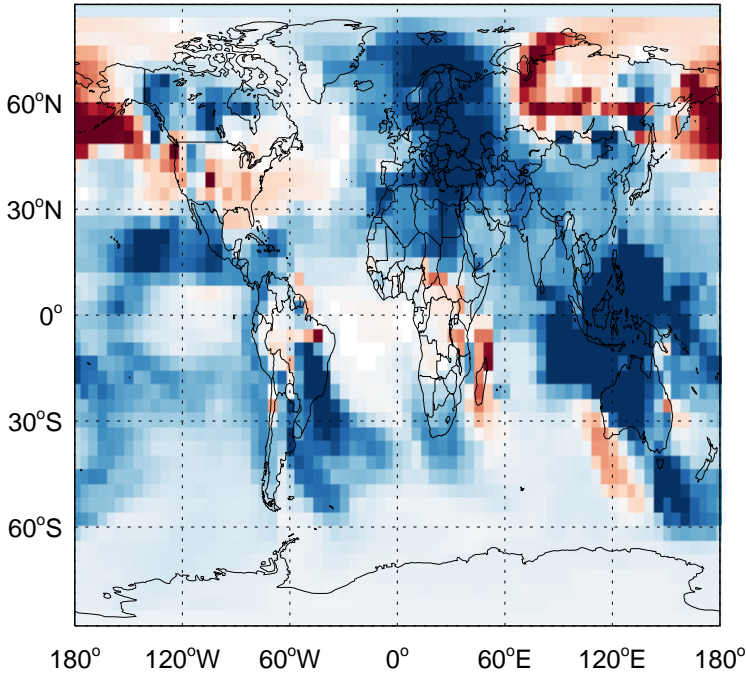


GC\_12.0.0 / v11-02e-Run1  
ISOA2/ Ratio @ 500 hPa for Oct

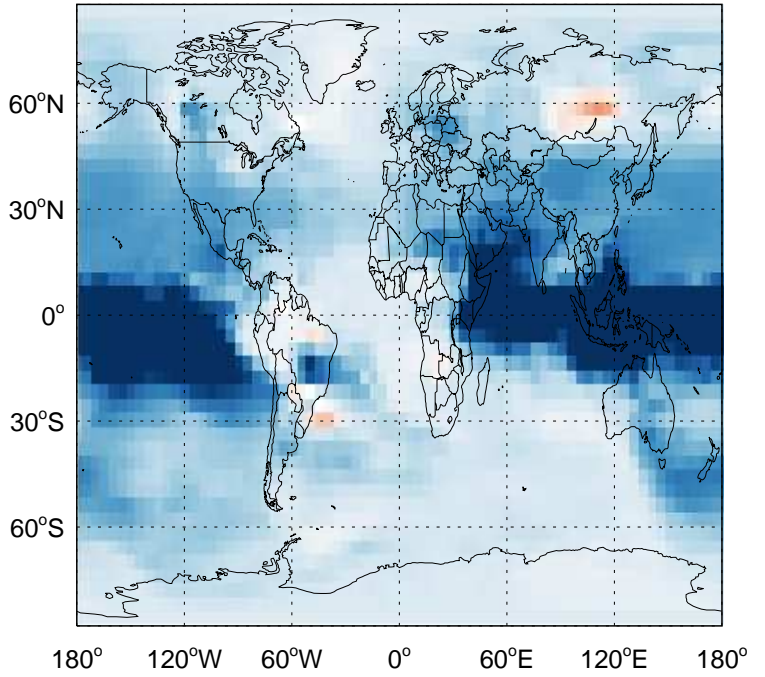


# GEOS-Chem Ratio Maps at surface and 500 hPa

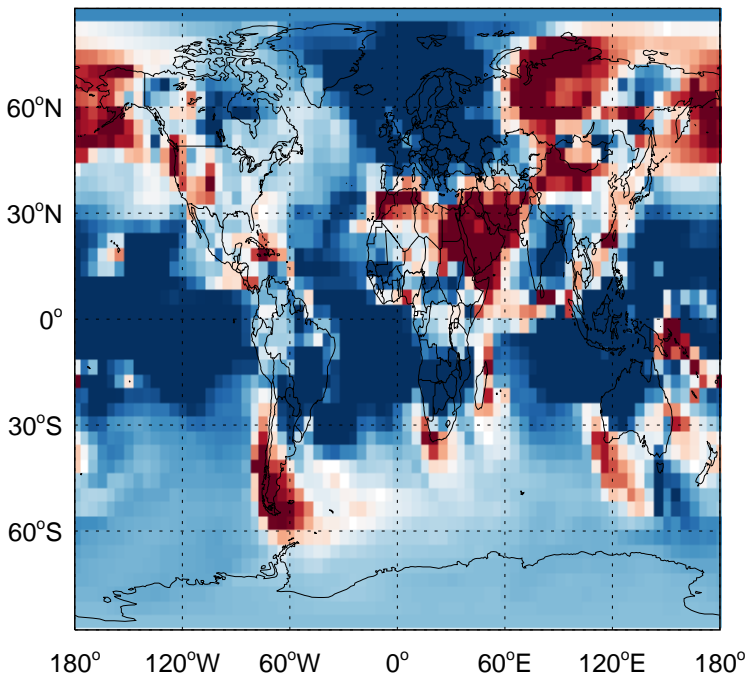
GC\_12.0.0 / v11-02f-Run1  
ISOA3 / Ratio @ Surface for Oct



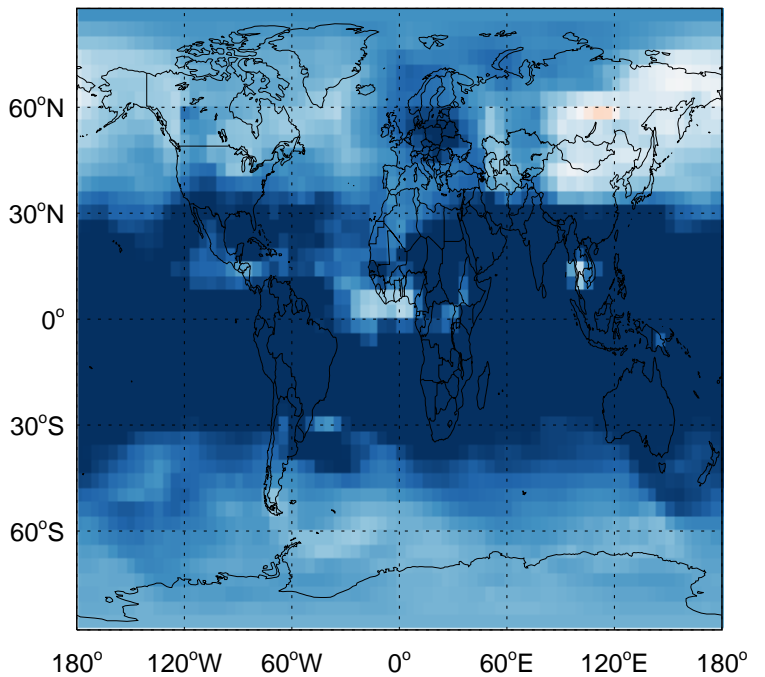
GC\_12.0.0 / v11-02f-Run1  
ISOA3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISOA3 / Ratio @ Surface for Oct

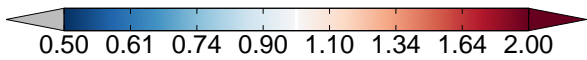
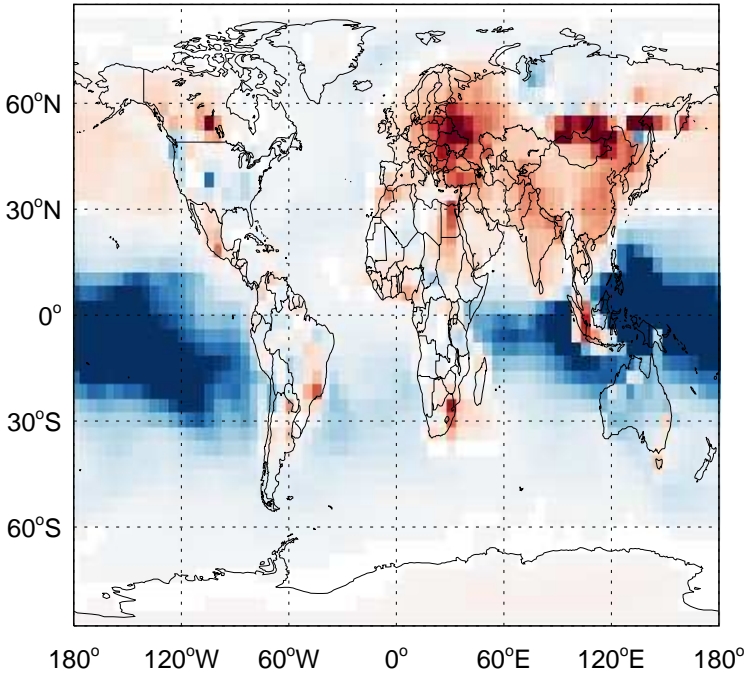


GC\_12.0.0 / v11-02e-Run1  
ISOA3/ Ratio @ 500 hPa for Oct

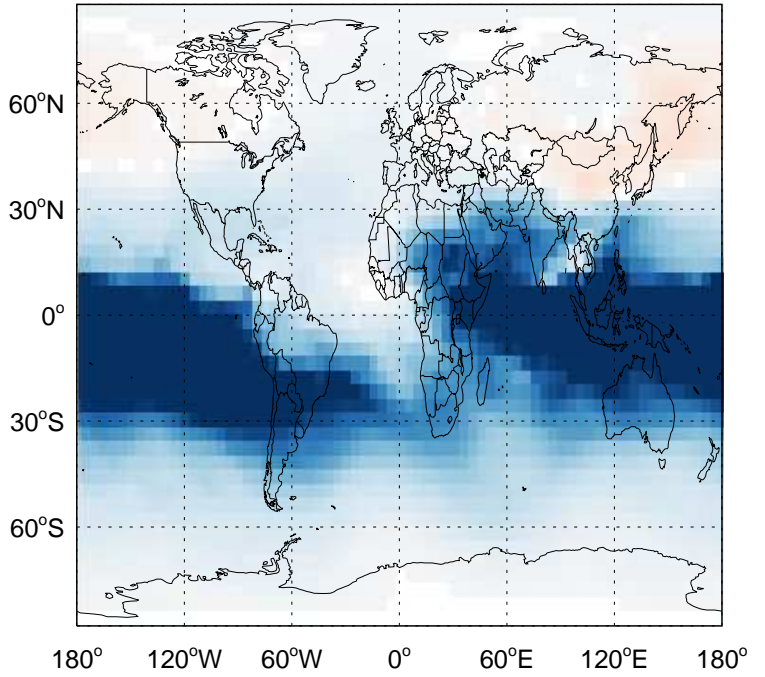


# GEOS-Chem Ratio Maps at surface and 500 hPa

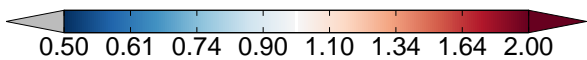
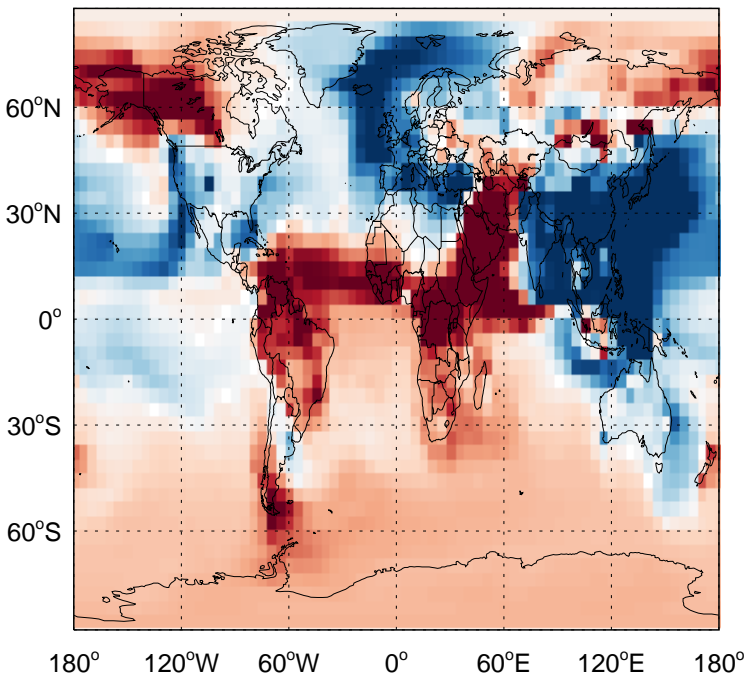
GC\_12.0.0 / v11-02f-Run1  
ASOG1 / Ratio @ Surface for Oct



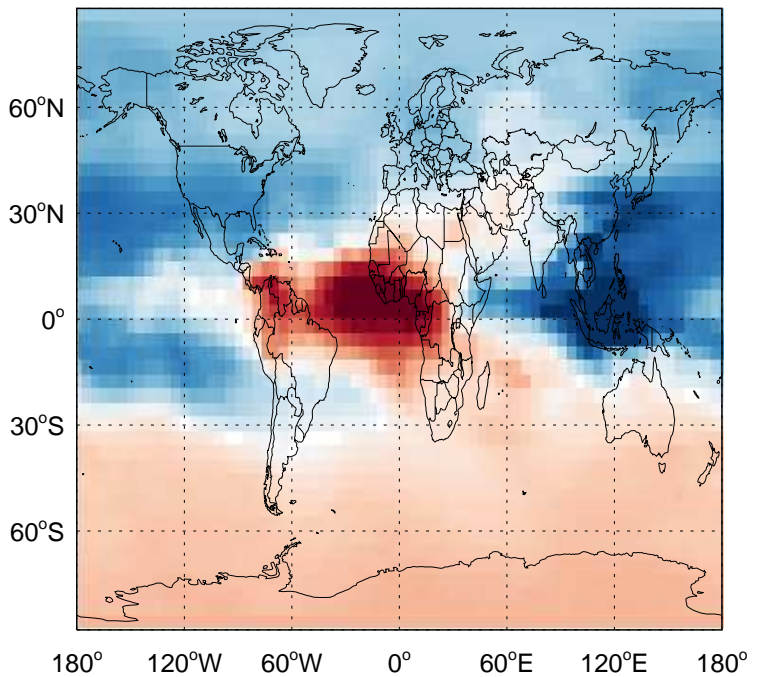
GC\_12.0.0 / v11-02f-Run1  
ASOG1 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOG1 / Ratio @ Surface for Oct



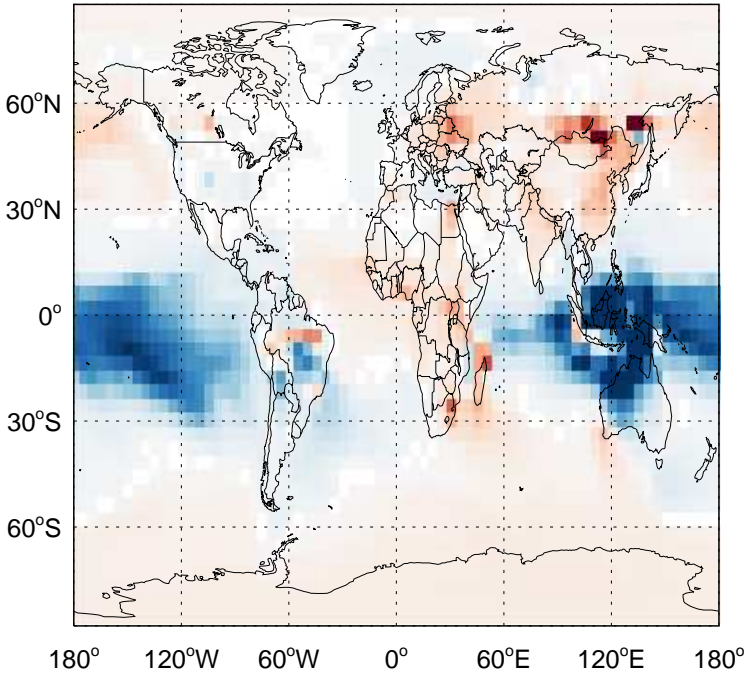
GC\_12.0.0 / v11-02e-Run1  
ASOG1 / Ratio @ 500 hPa for Oct



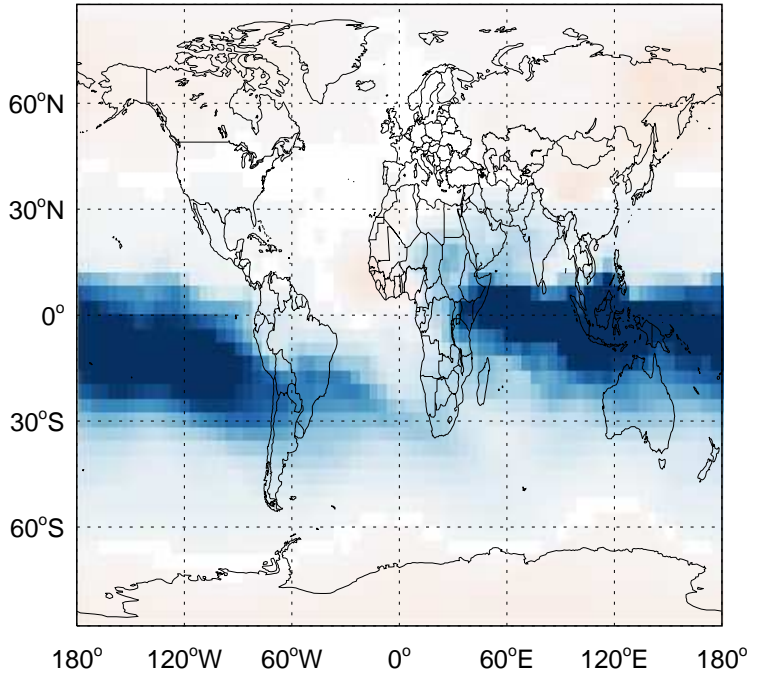


# GEOS-Chem Ratio Maps at surface and 500 hPa

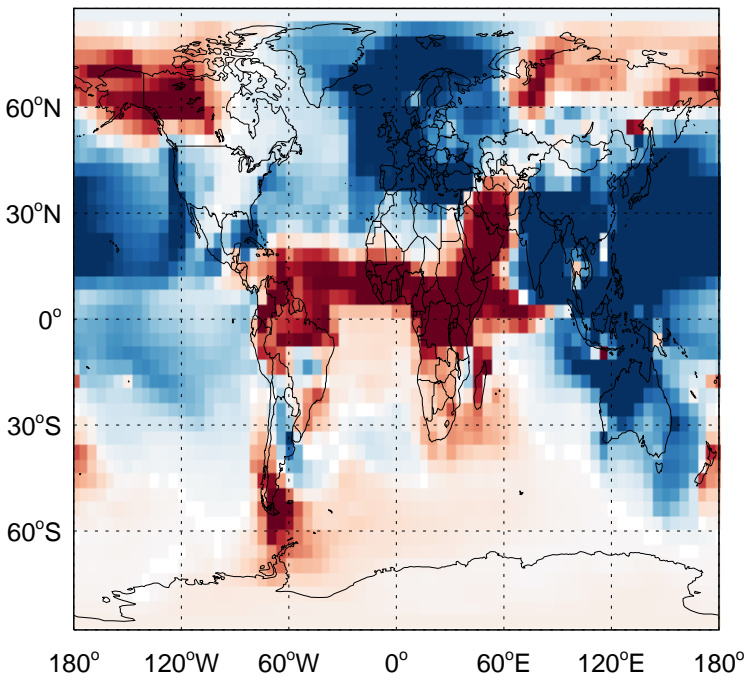
GC\_12.0.0 / v11-02f-Run1  
ASOG2 / Ratio @ Surface for Oct



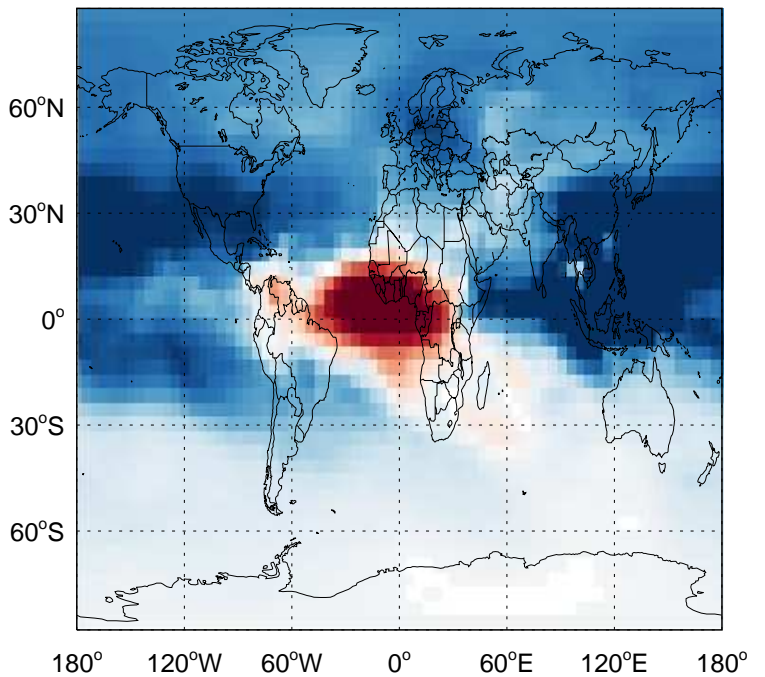
GC\_12.0.0 / v11-02f-Run1  
ASOG2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOG2 / Ratio @ Surface for Oct

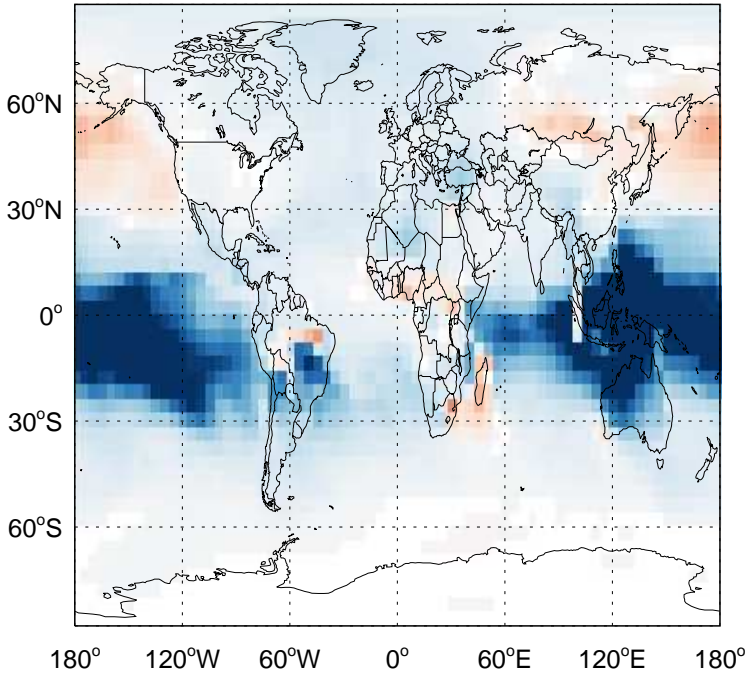


GC\_12.0.0 / v11-02e-Run1  
ASOG2 / Ratio @ 500 hPa for Oct

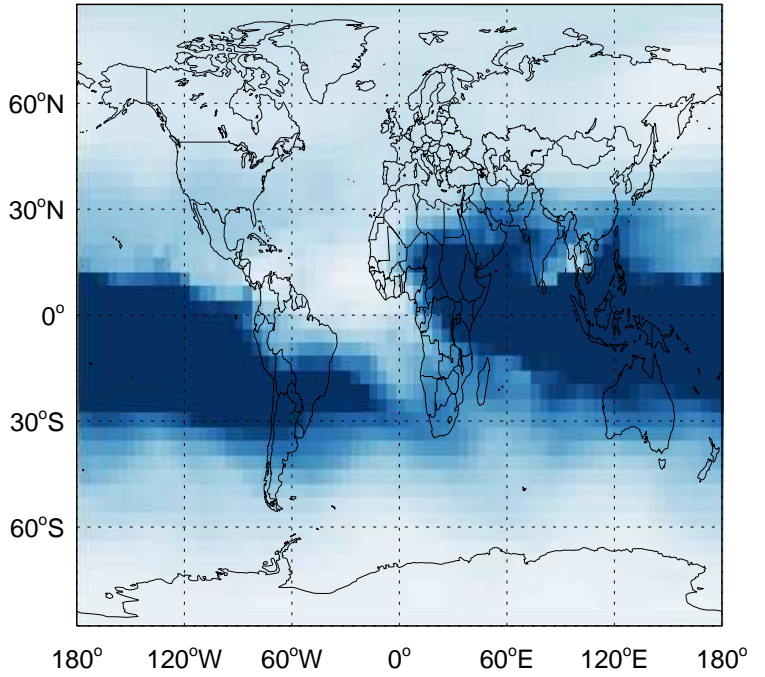


# GEOS-Chem Ratio Maps at surface and 500 hPa

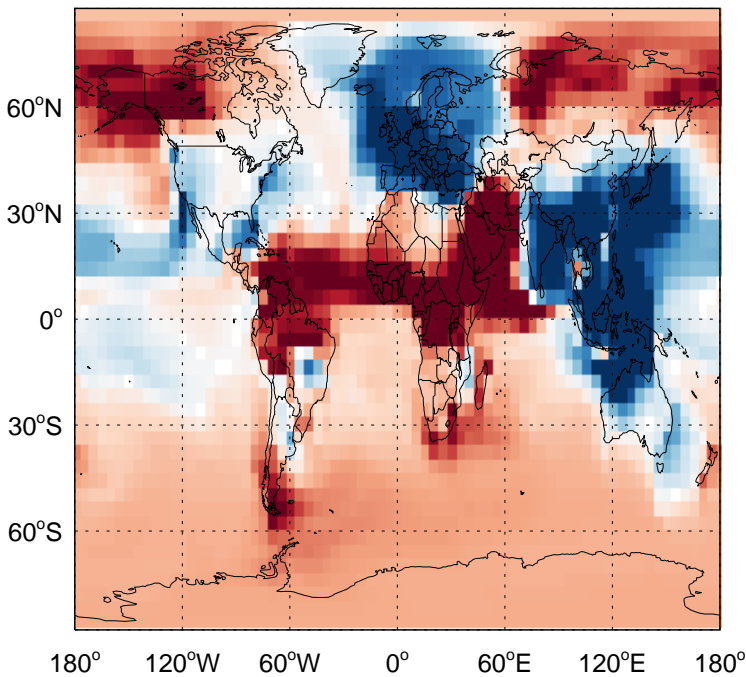
GC\_12.0.0 / v11-02f-Run1  
ASOG3 / Ratio @ Surface for Oct



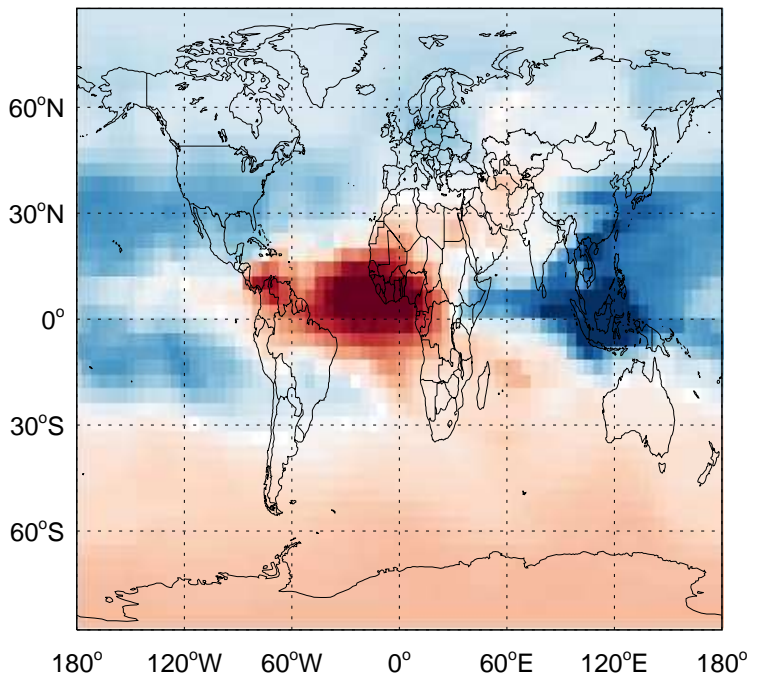
GC\_12.0.0 / v11-02f-Run1  
ASOG3 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOG3 / Ratio @ Surface for Oct

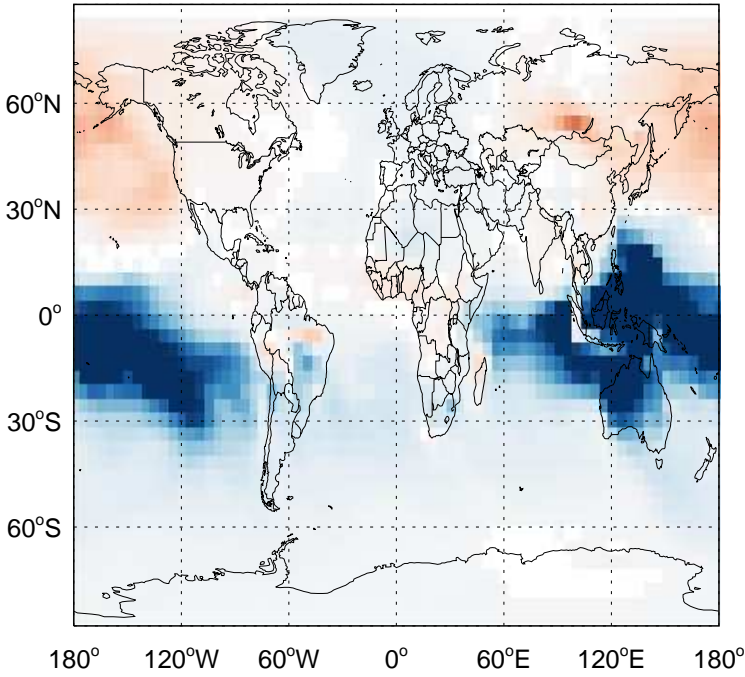


GC\_12.0.0 / v11-02e-Run1  
ASOG3 / Ratio @ 500 hPa for Oct

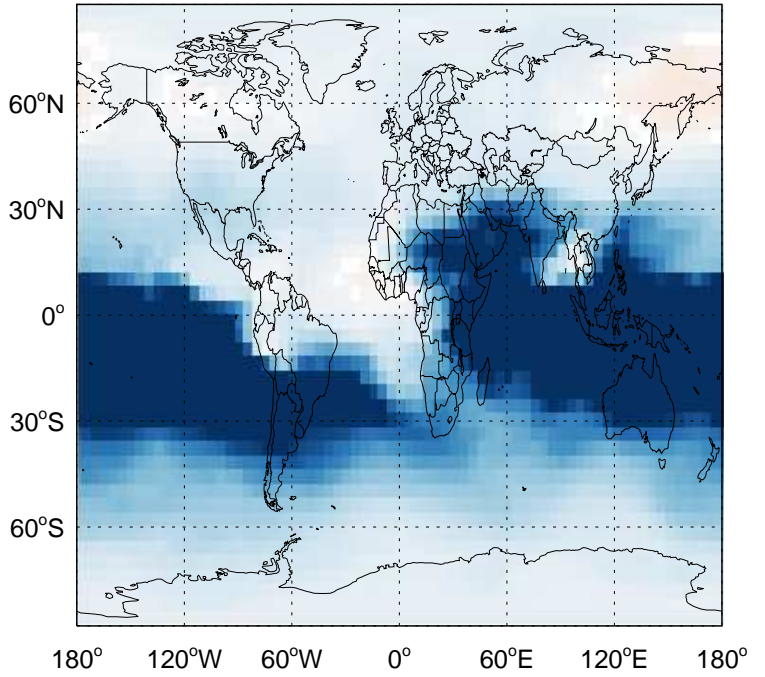


# GEOS-Chem Ratio Maps at surface and 500 hPa

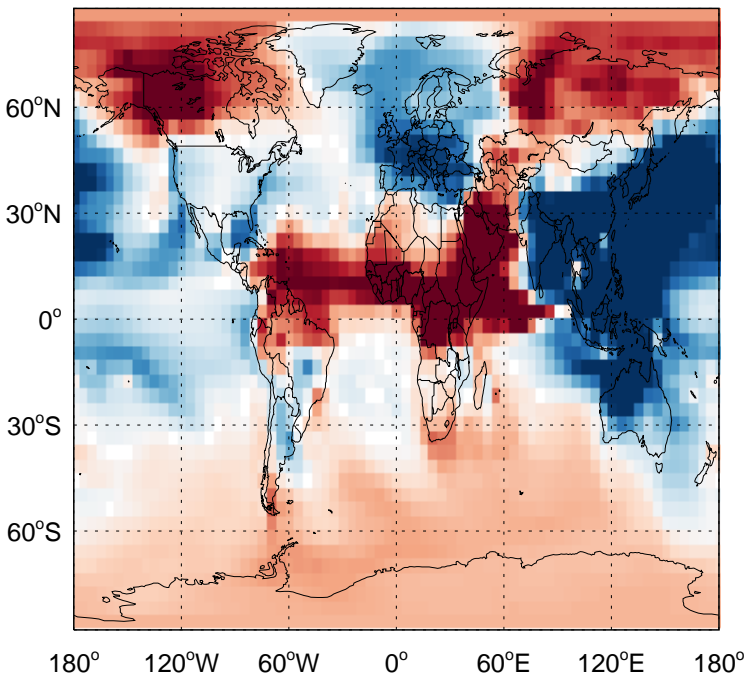
GC\_12.0.0 / v11-02f-Run1  
ASOAN / Ratio @ Surface for Oct



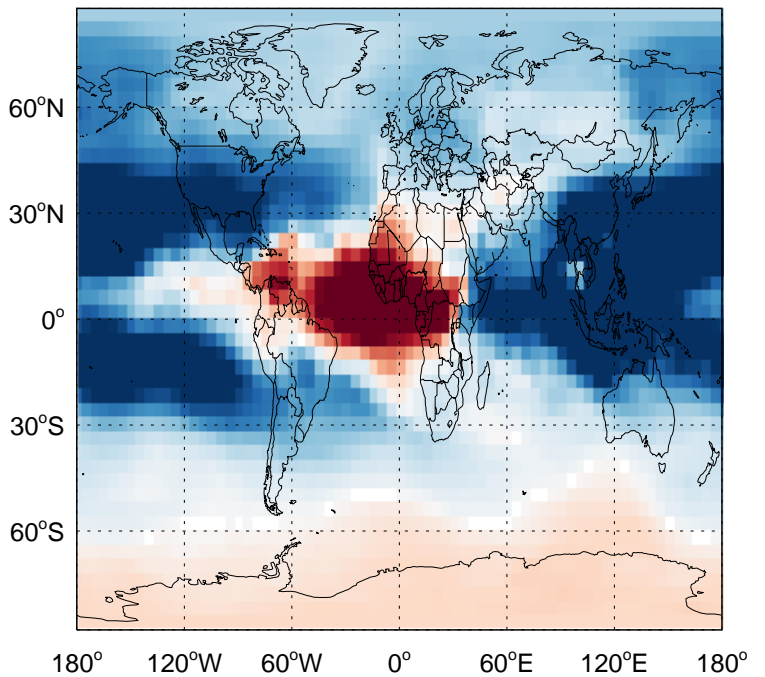
GC\_12.0.0 / v11-02f-Run1  
ASOAN / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOAN / Ratio @ Surface for Oct



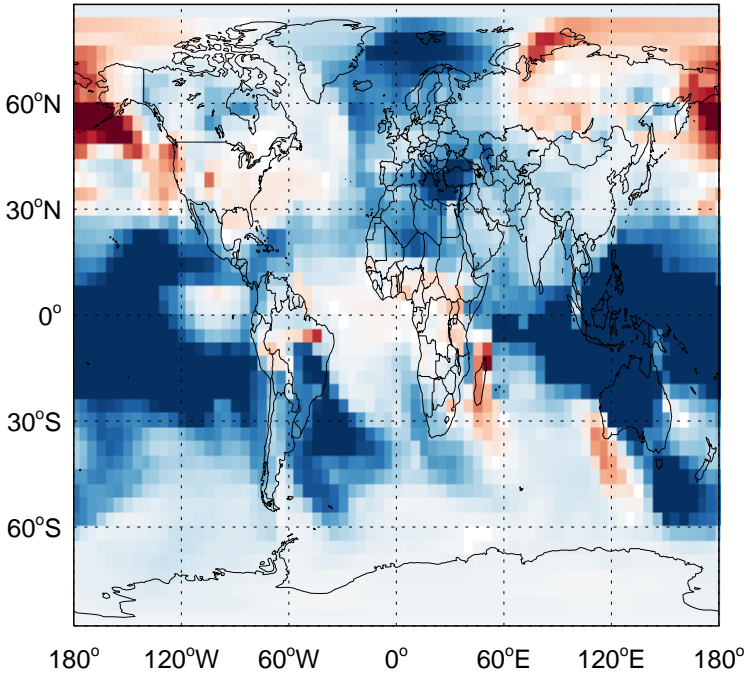
GC\_12.0.0 / v11-02e-Run1  
ASOAN / Ratio @ 500 hPa for Oct



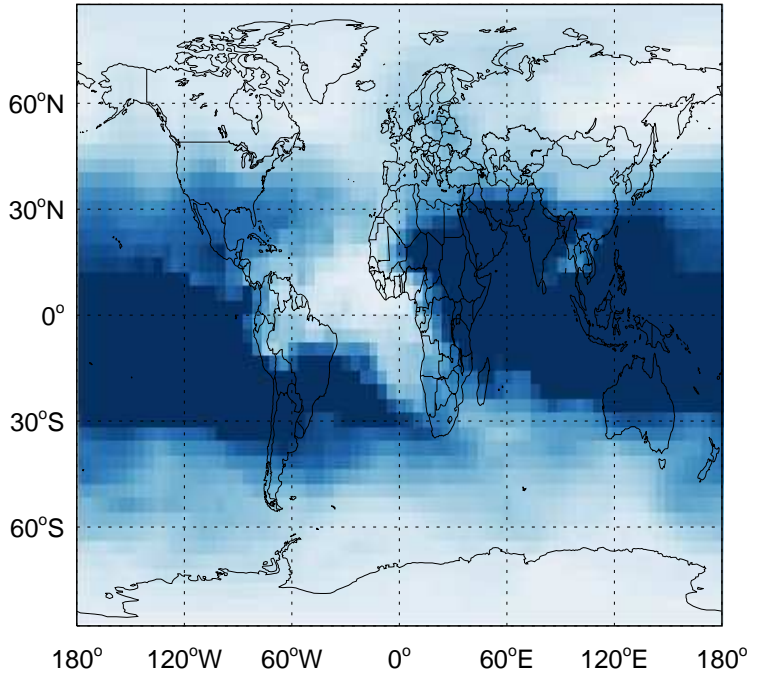


# GEOS-Chem Ratio Maps at surface and 500 hPa

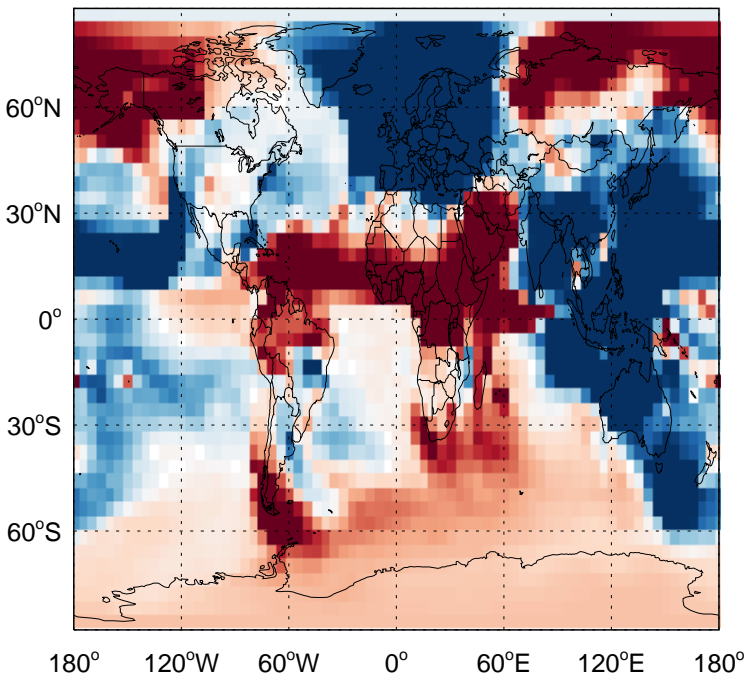
GC\_12.0.0 / v11-02f-Run1  
ASOA1 / Ratio @ Surface for Oct



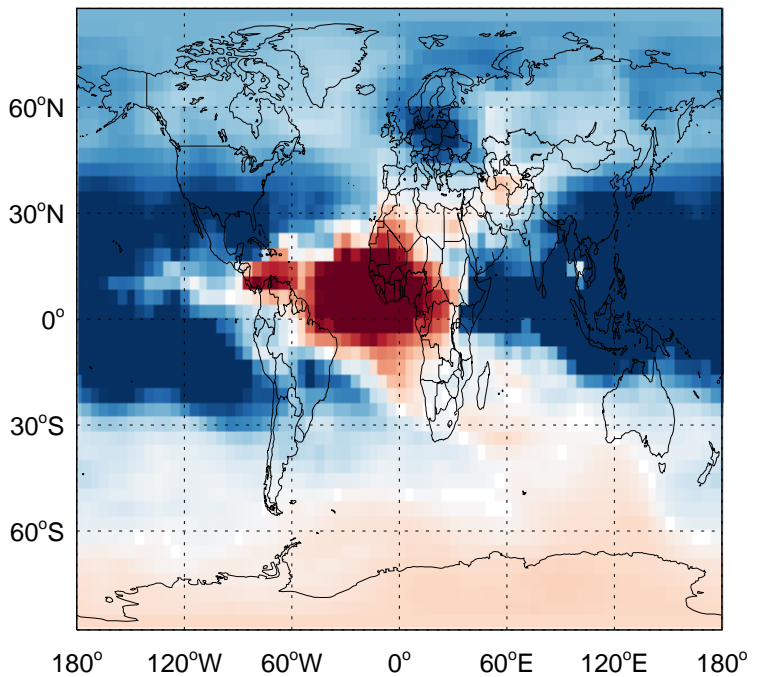
GC\_12.0.0 / v11-02f-Run1  
ASOA1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOA1 / Ratio @ Surface for Oct

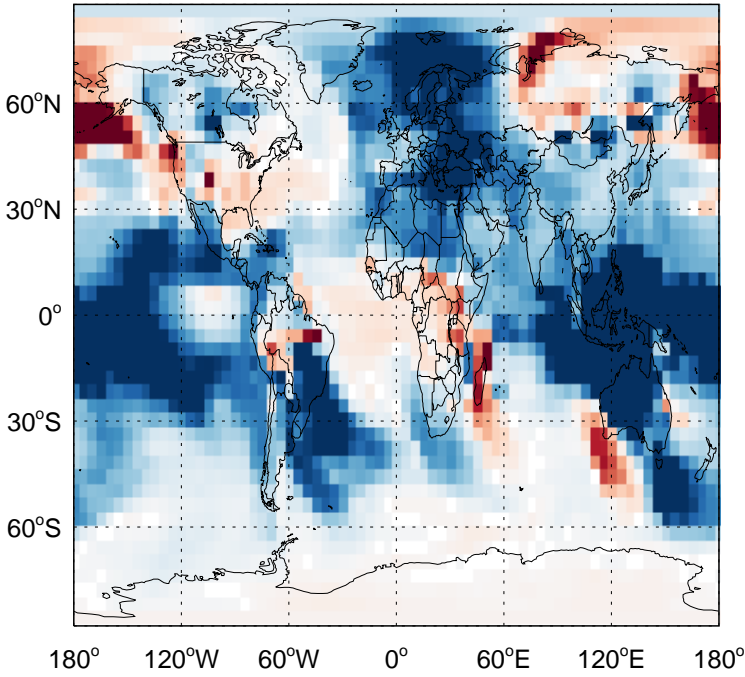


GC\_12.0.0 / v11-02e-Run1  
ASOA1/ Ratio @ 500 hPa for Oct

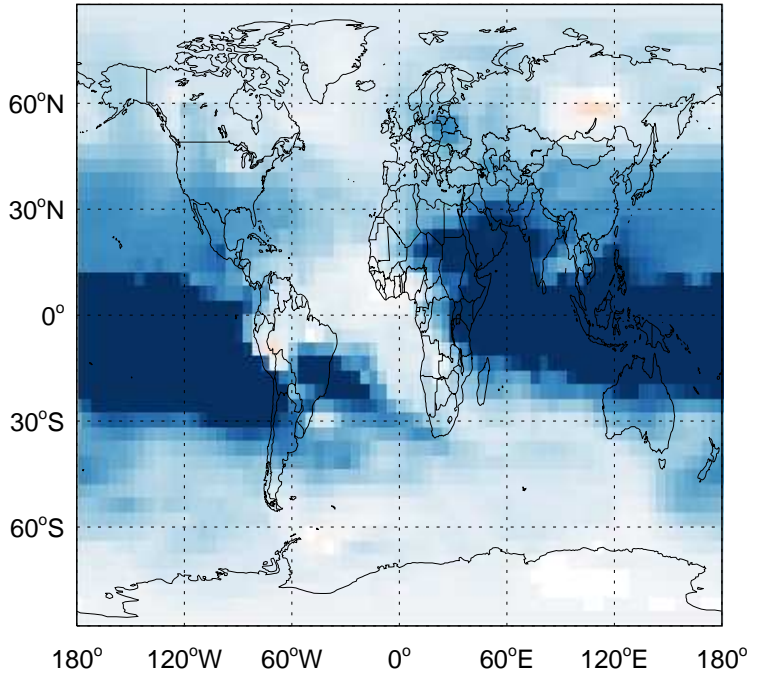


# GEOS-Chem Ratio Maps at surface and 500 hPa

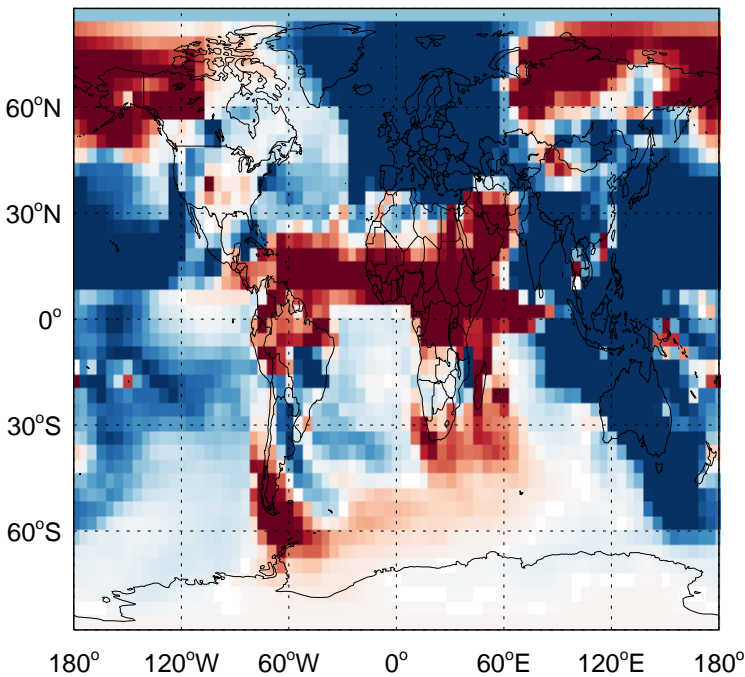
GC\_12.0.0 / v11-02f-Run1  
ASOA2 / Ratio @ Surface for Oct



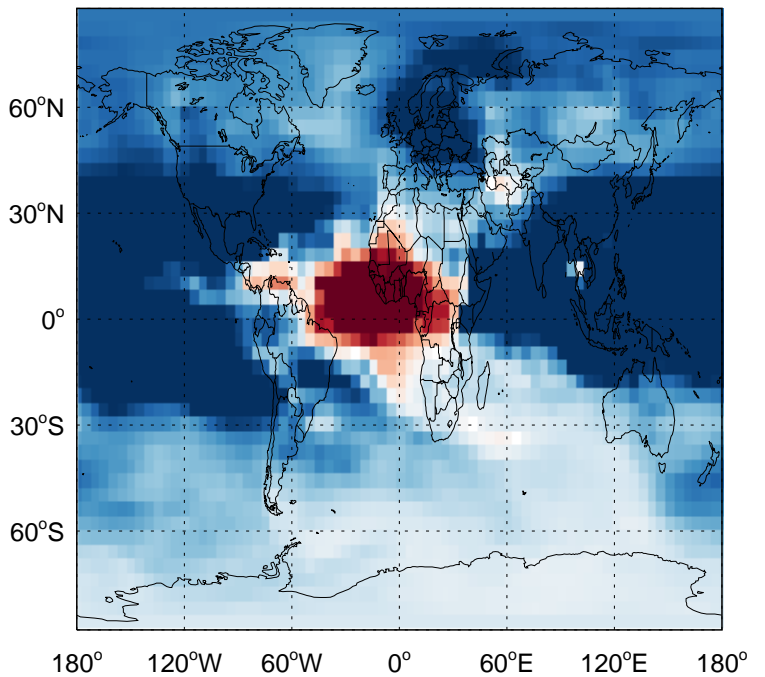
GC\_12.0.0 / v11-02f-Run1  
ASOA2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOA2 / Ratio @ Surface for Oct

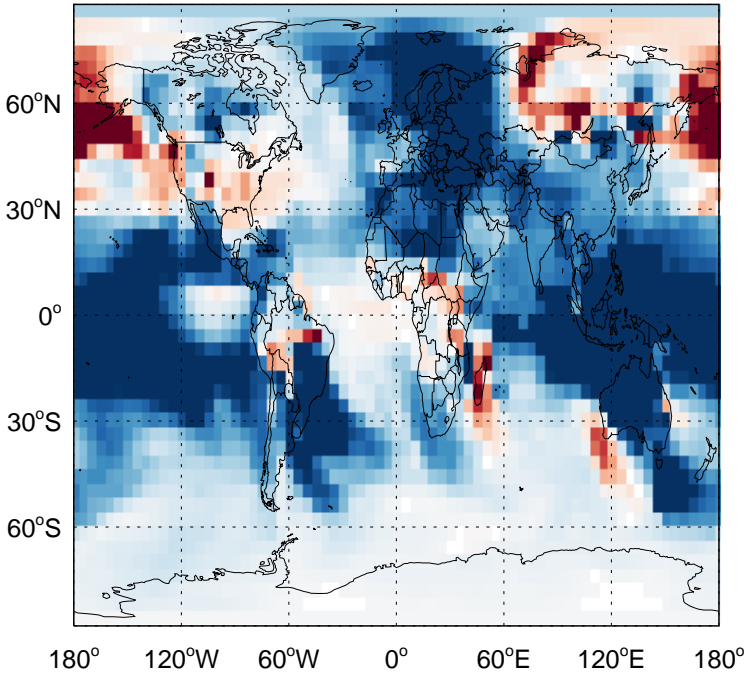


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ASOA2 / Ratio @ 500 hPa for Oct

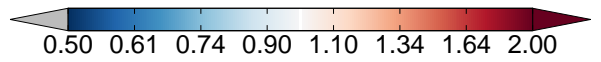
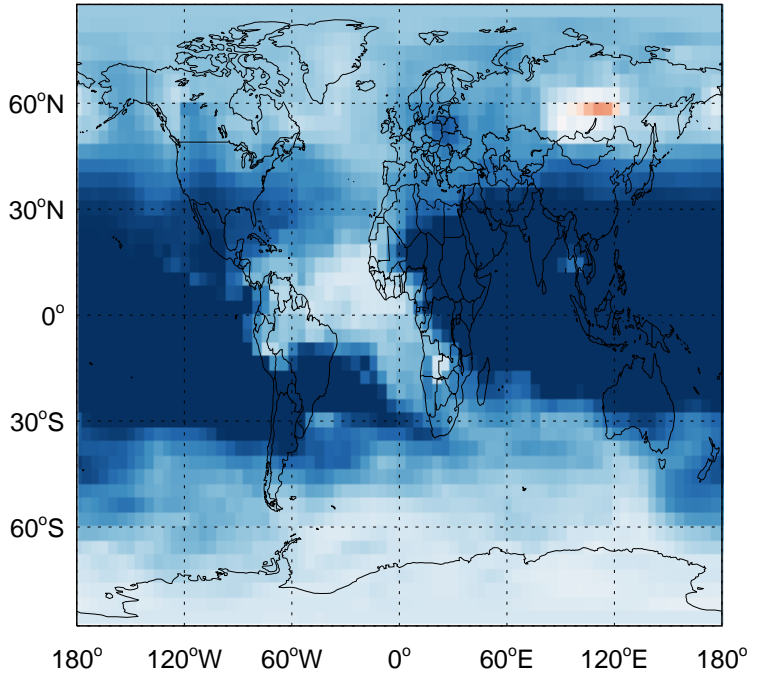


# GEOS-Chem Ratio Maps at surface and 500 hPa

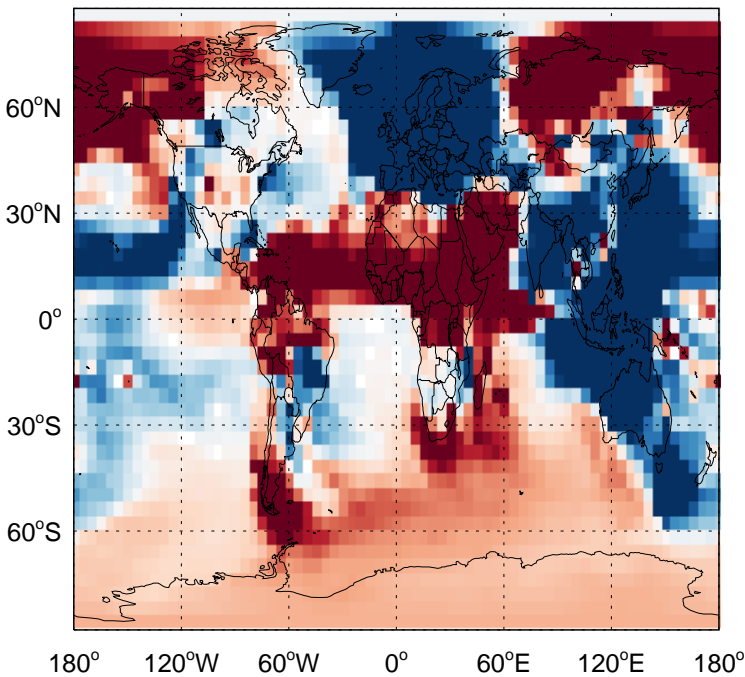
GC\_12.0.0 / v11-02f-Run1  
ASOA3 / Ratio @ Surface for Oct



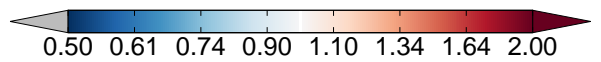
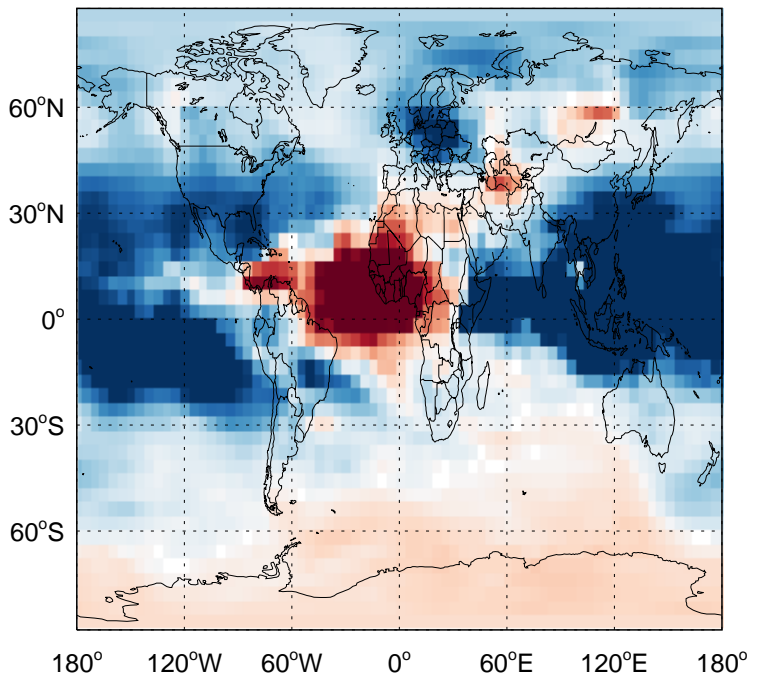
GC\_12.0.0 / v11-02f-Run1  
ASOA3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ASOA3 / Ratio @ Surface for Oct



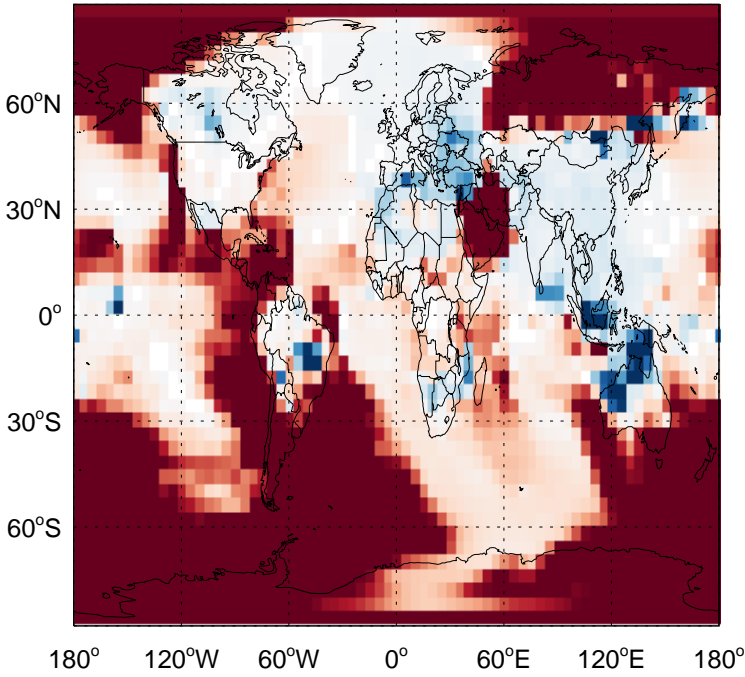
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ASOA3/ Ratio @ 500 hPa for Oct



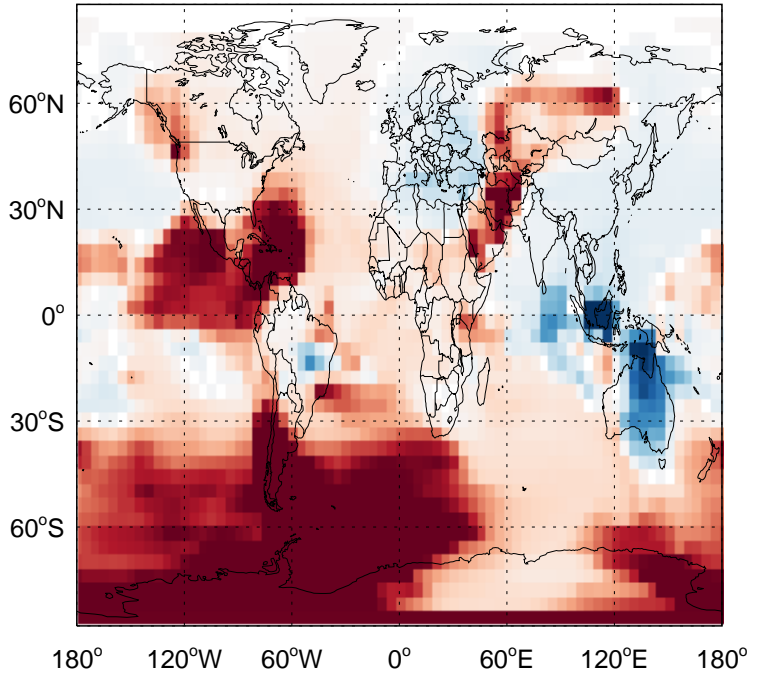


# GEOS-Chem Ratio Maps at surface and 500 hPa

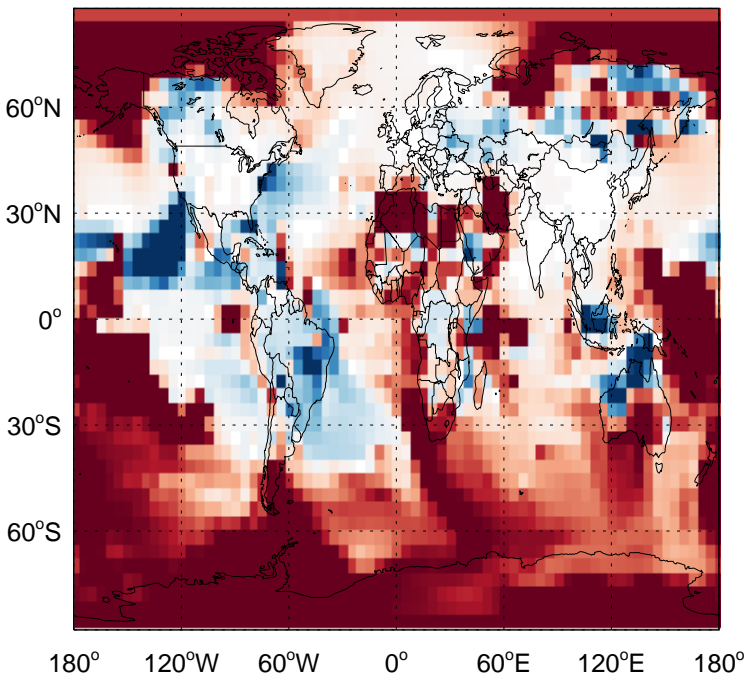
GC\_12.0.0 / v11-02f-Run1  
SOAP / Ratio @ Surface for Oct



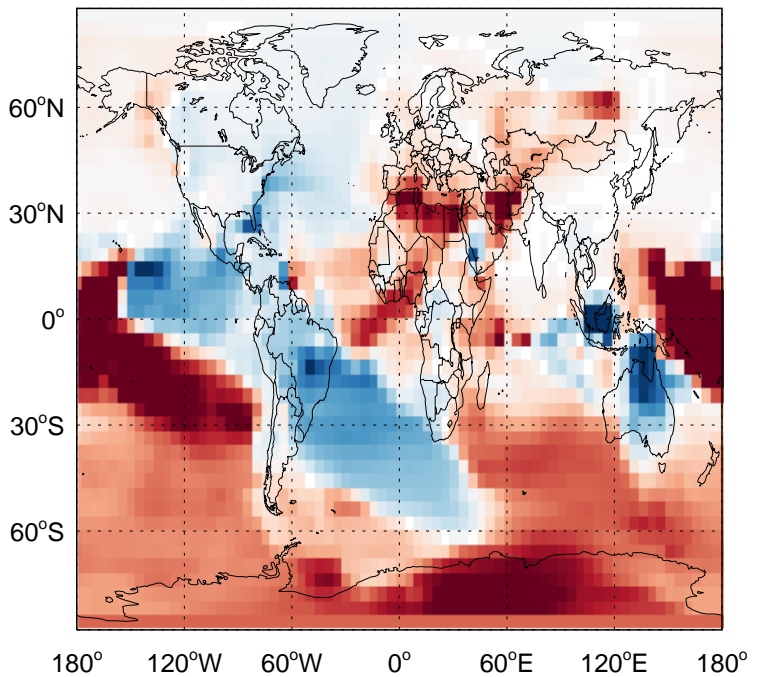
GC\_12.0.0 / v11-02f-Run1  
SOAP/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAP / Ratio @ Surface for Oct

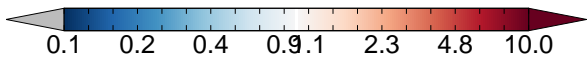
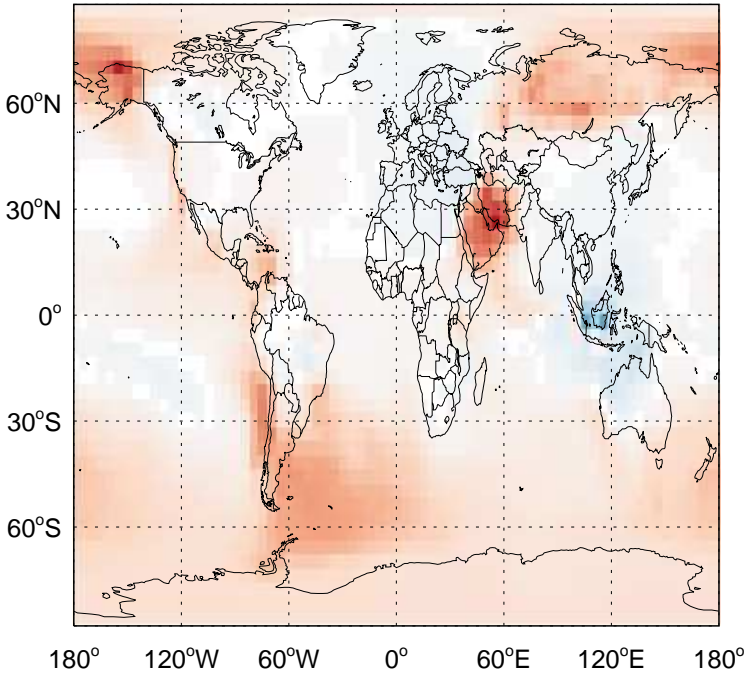


GC\_12.0.0 / v11-02e-Run1  
SOAP/ Ratio @ 500 hPa for Oct

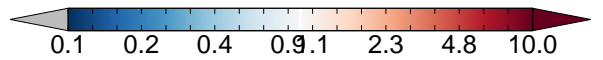
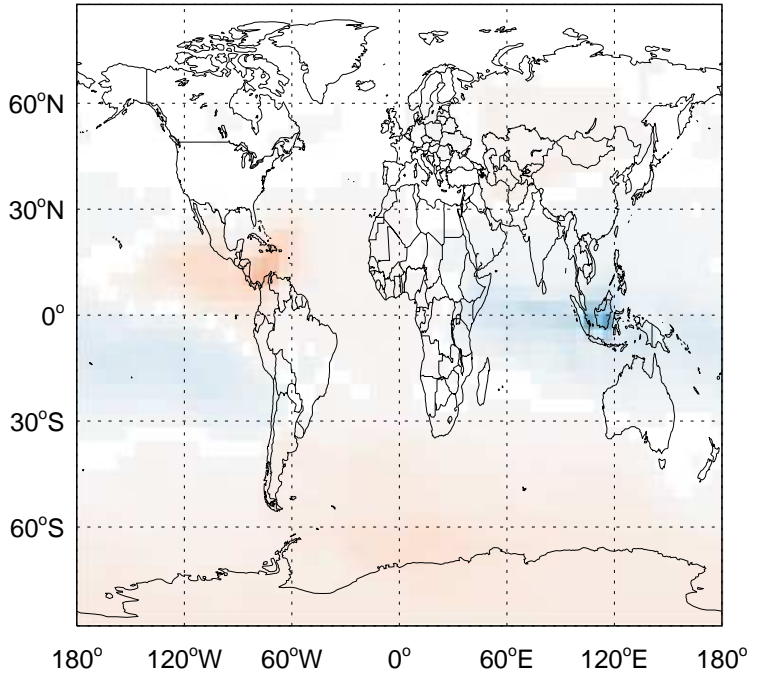


# GEOS-Chem Ratio Maps at surface and 500 hPa

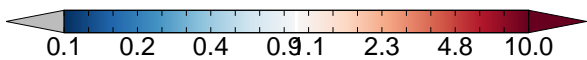
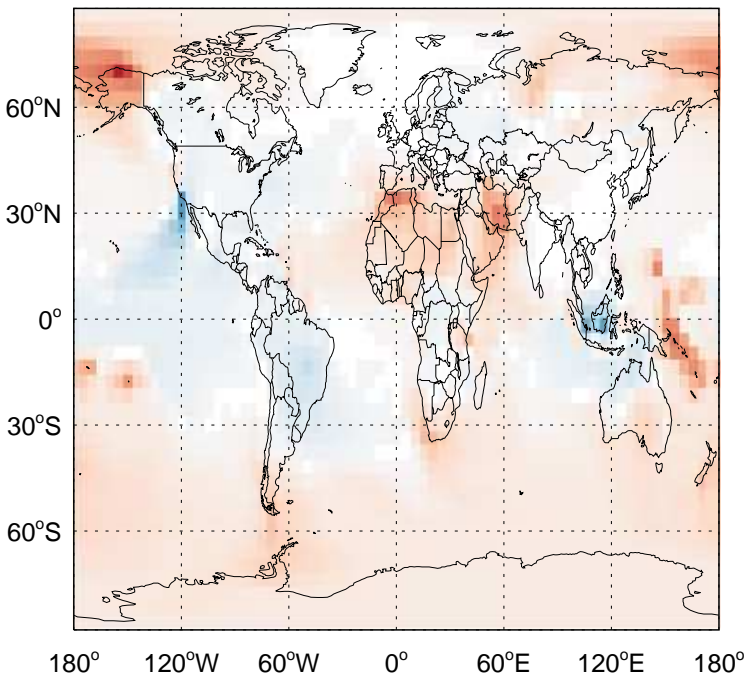
GC\_12.0.0 / v11-02f-Run1  
SOAS / Ratio @ Surface for Oct



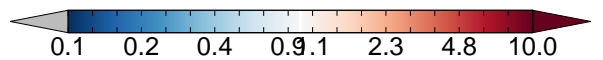
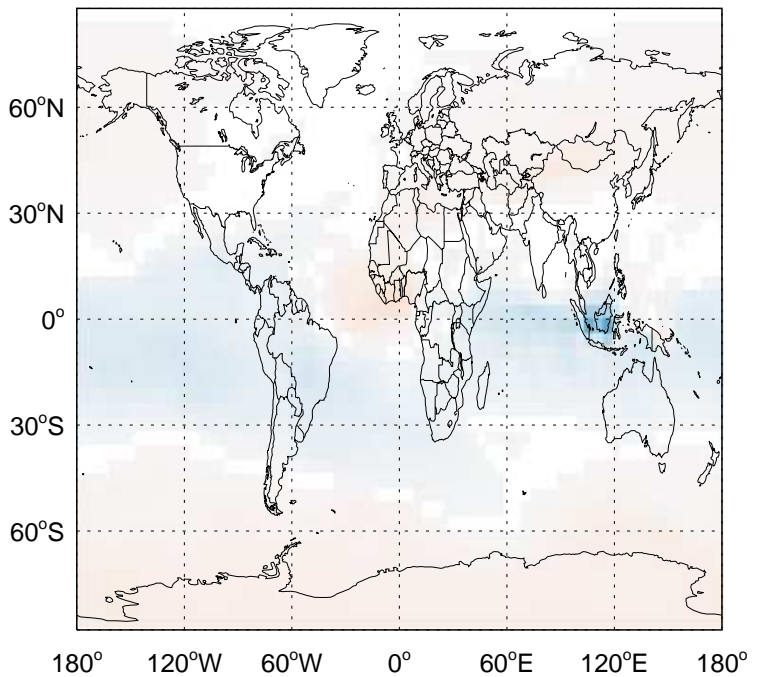
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SOAS/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAS / Ratio @ Surface for Oct

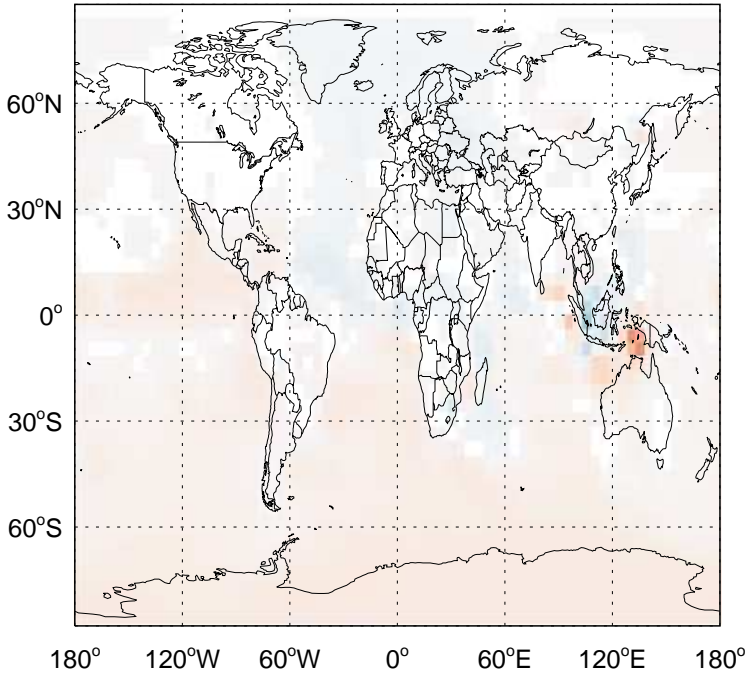


GC\_12.0.0 / v11-02e-Run1  
SOAS/ Ratio @ 500 hPa for Oct

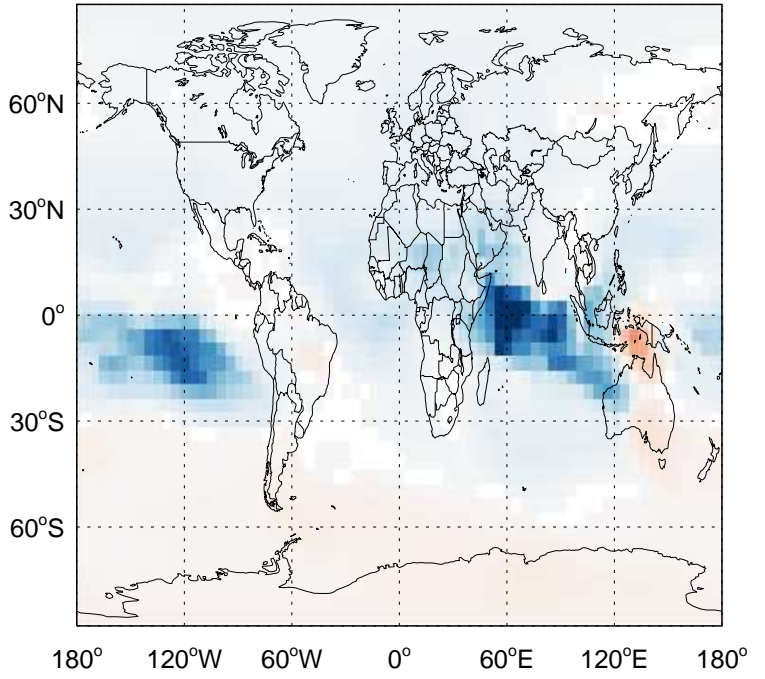


# GEOS-Chem Ratio Maps at surface and 500 hPa

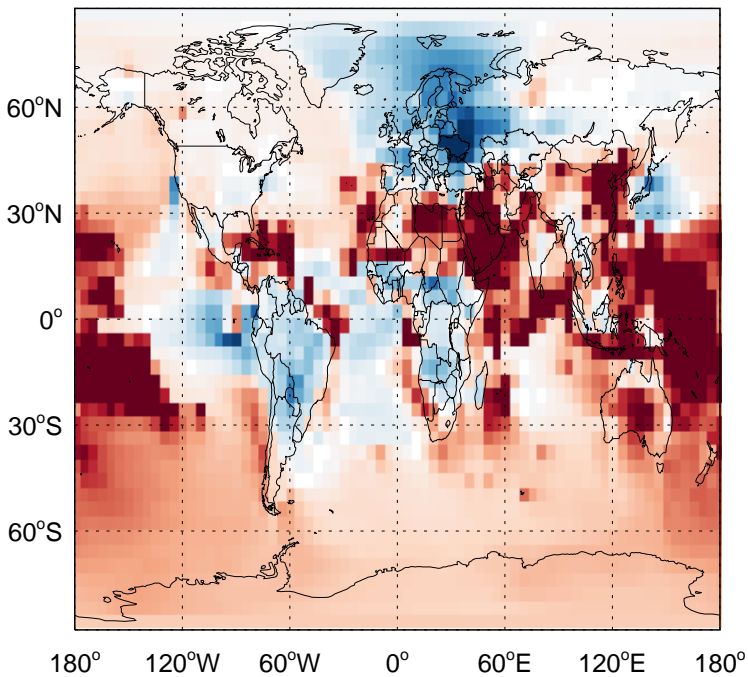
GC\_12.0.0 / v11-02f-Run1  
EOH / Ratio @ Surface for Oct



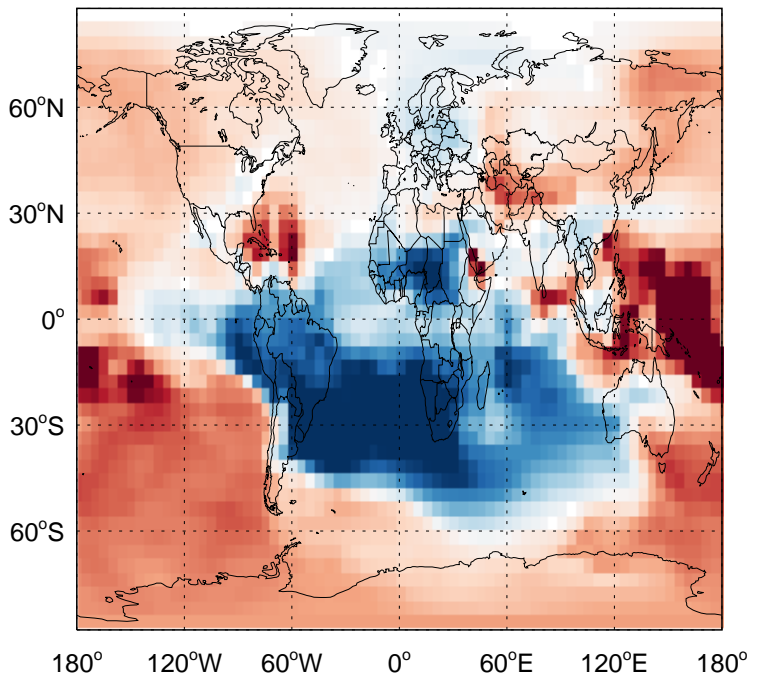
GC\_12.0.0 / v11-02f-Run1  
EOH/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
EOH / Ratio @ Surface for Oct



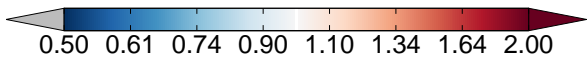
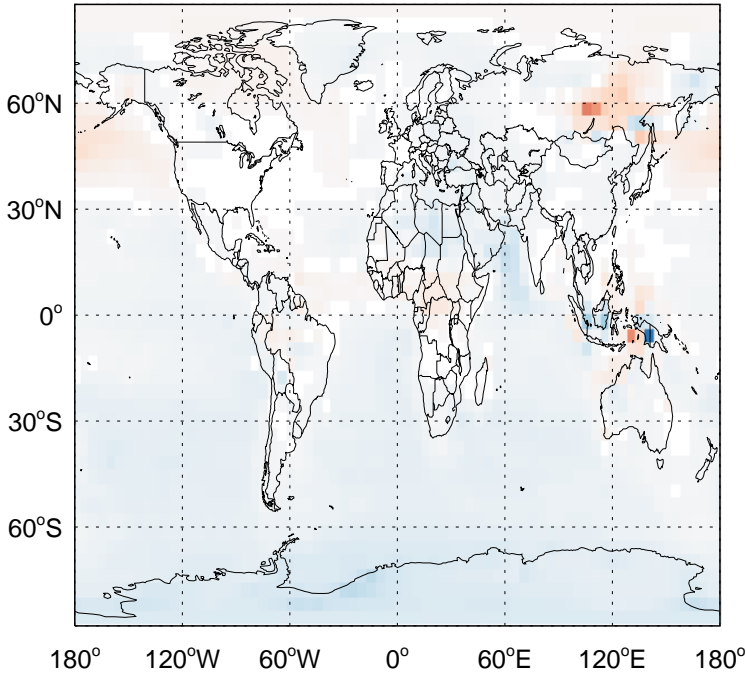
GC\_12.0.0 / v11-02e-Run1  
EOH/ Ratio @ 500 hPa for Oct



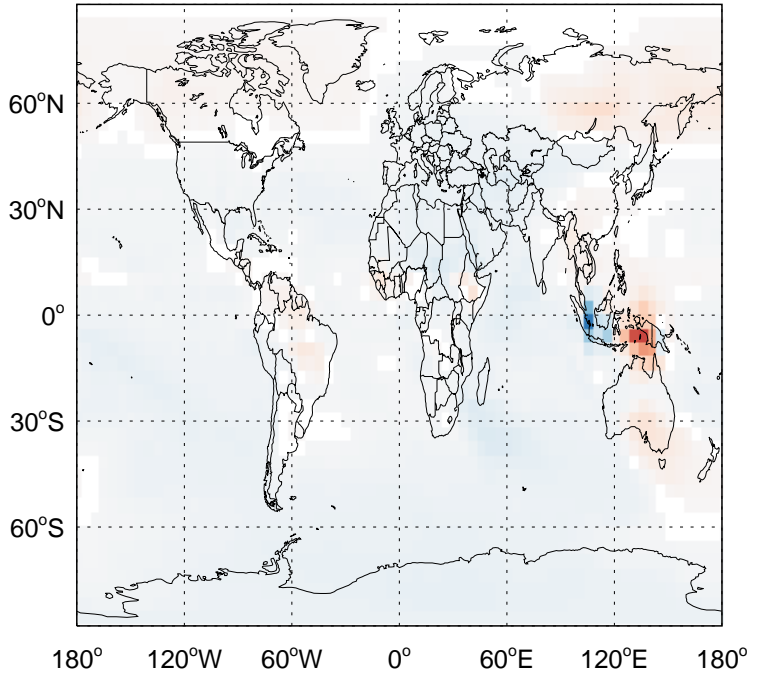


# GEOS-Chem Ratio Maps at surface and 500 hPa

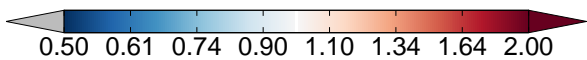
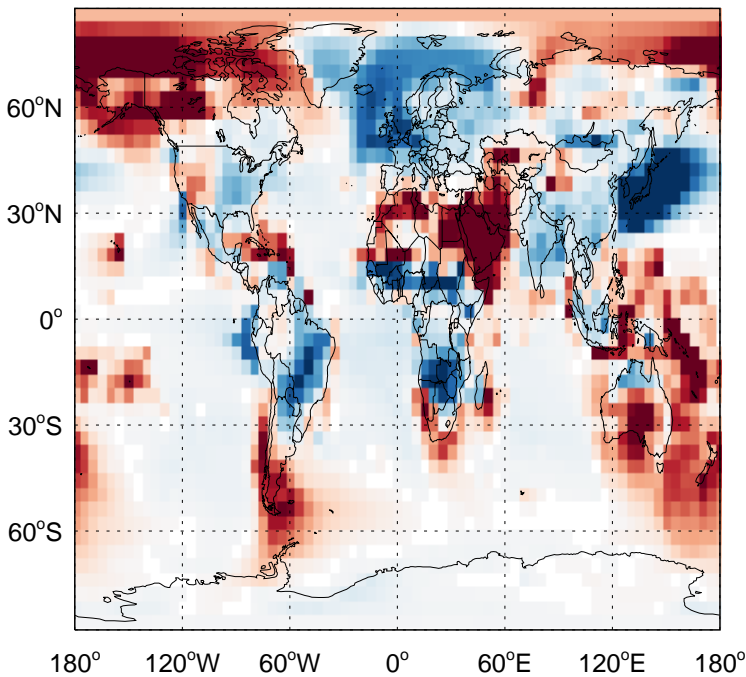
GC\_12.0.0 / v11-02f-Run1  
MGLY / Ratio @ Surface for Oct



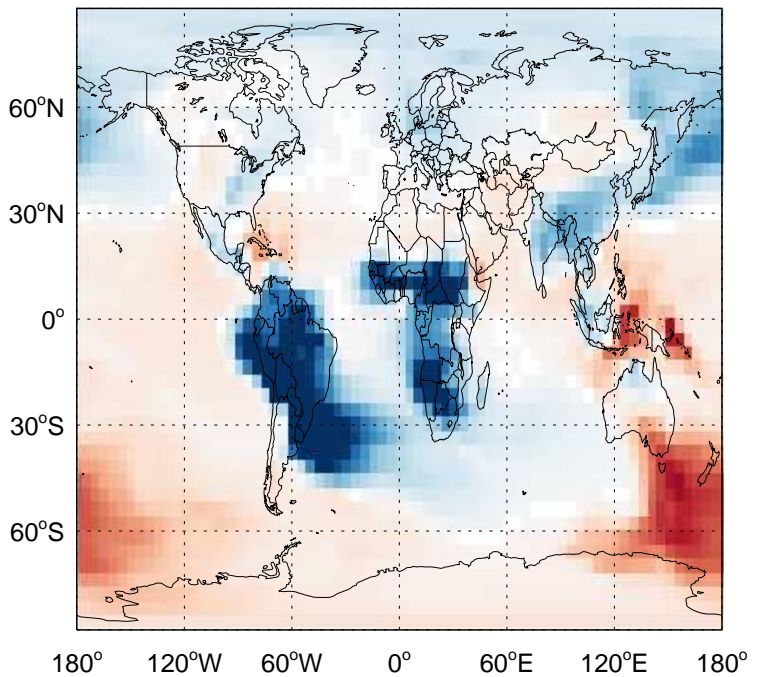
GC\_12.0.0 / v11-02f-Run1  
MGLY/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MGLY / Ratio @ Surface for Oct

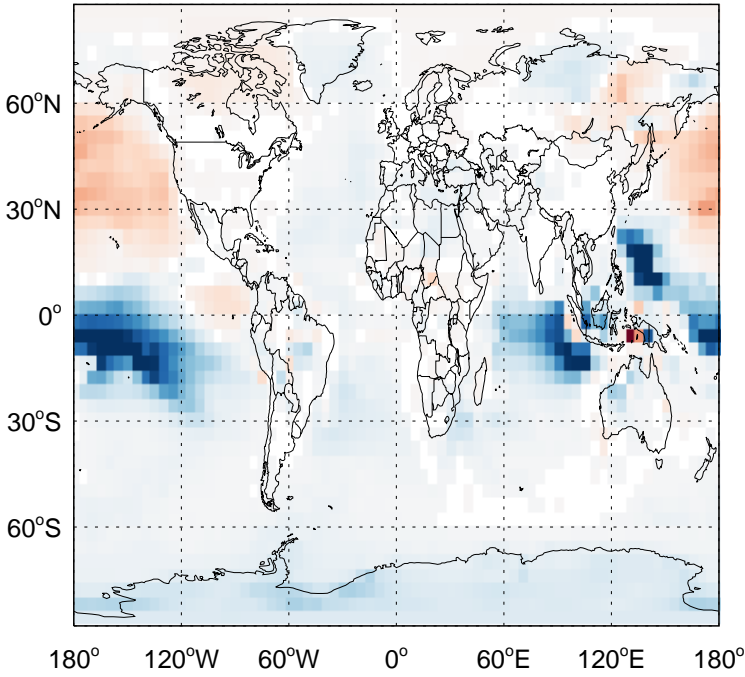


GC\_12.0.0 / v11-02e-Run1  
MGLY/ Ratio @ 500 hPa for Oct

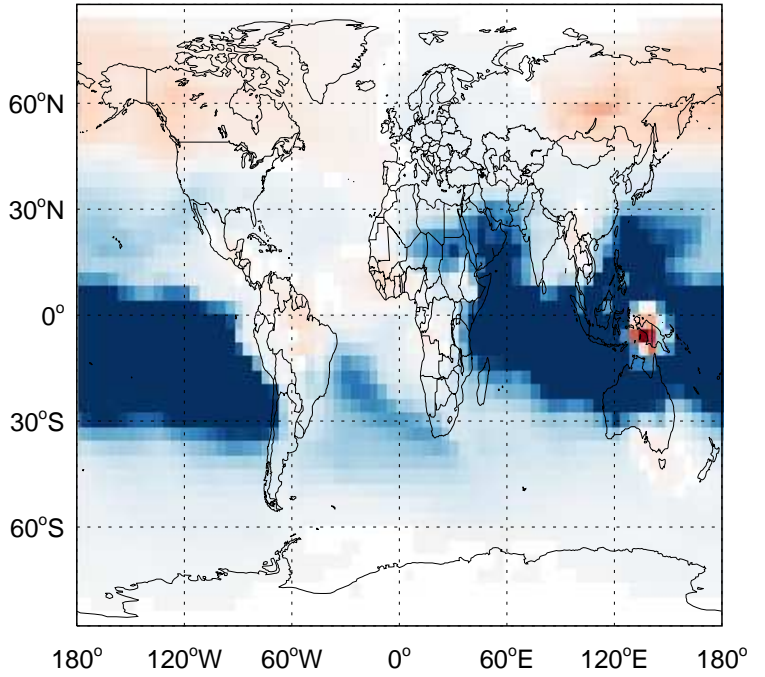


# GEOS-Chem Ratio Maps at surface and 500 hPa

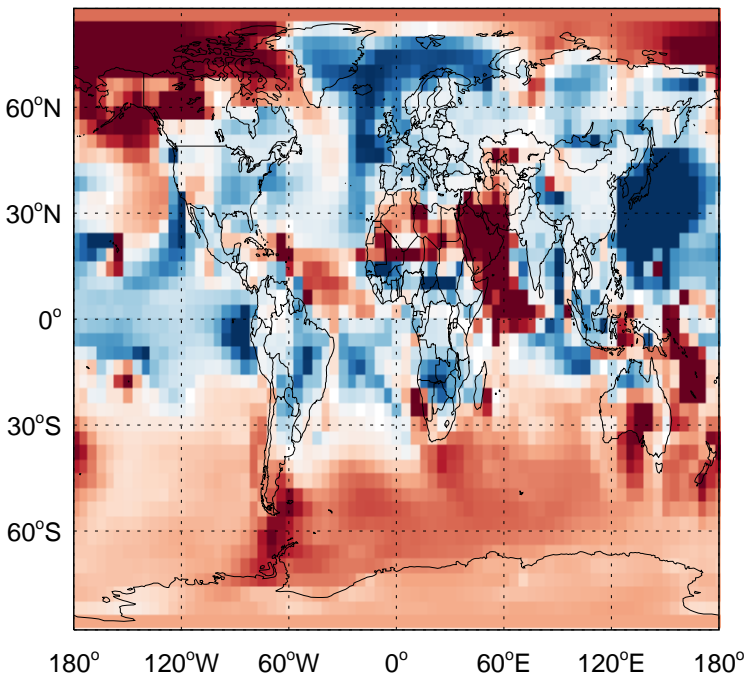
GC\_12.0.0 / v11-02f-Run1  
GLYX / Ratio @ Surface for Oct



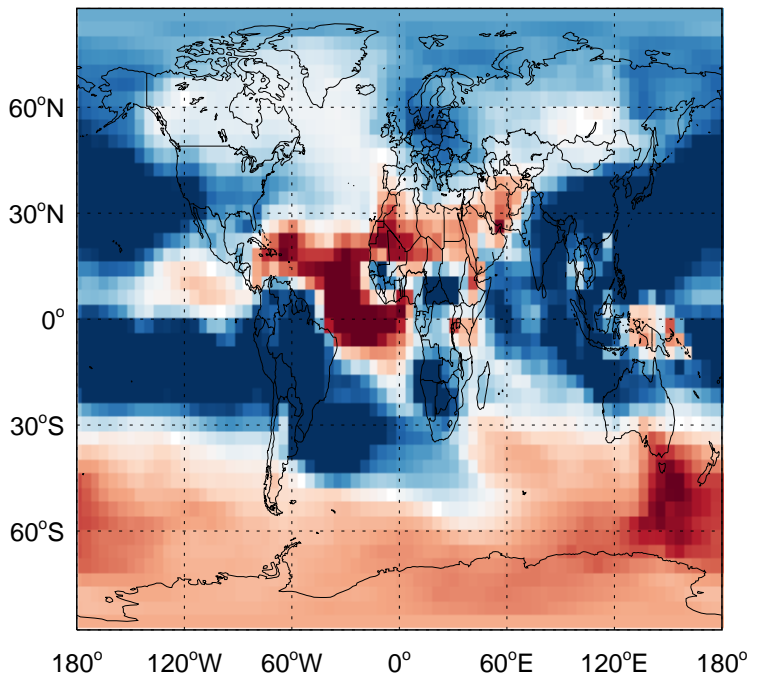
GC\_12.0.0 / v11-02f-Run1  
GLYX/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
GLYX / Ratio @ Surface for Oct

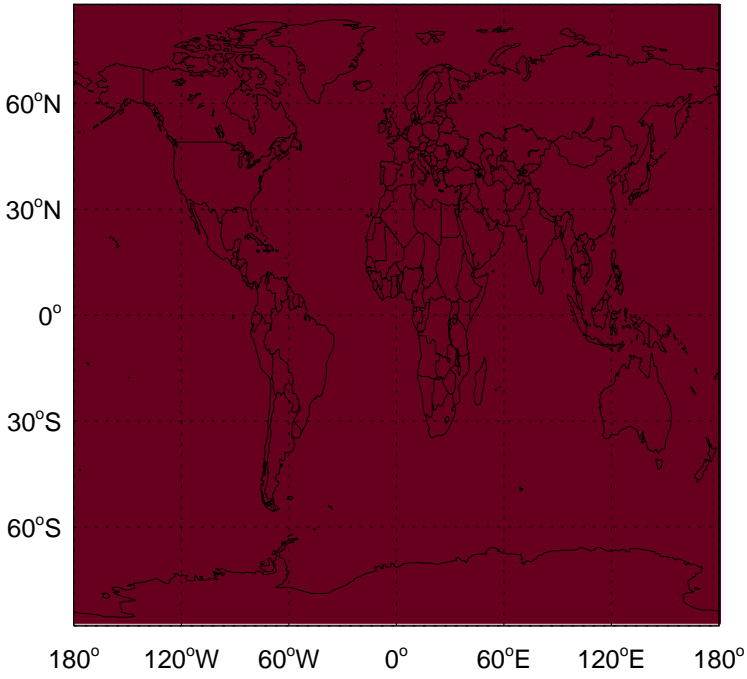


GC\_12.0.0 / v11-02e-Run1  
GLYX/ Ratio @ 500 hPa for Oct

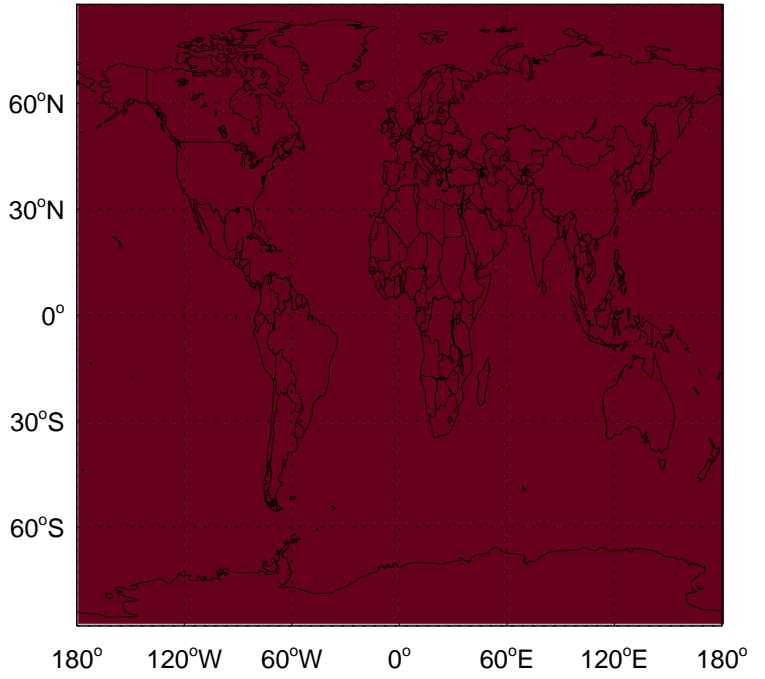


# GEOS-Chem Ratio Maps at surface and 500 hPa

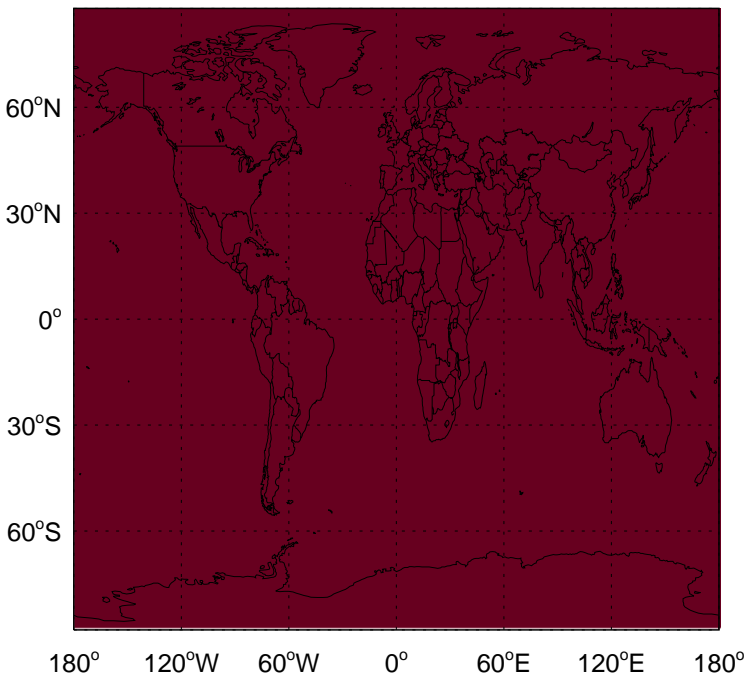
GC\_12.0.0 / v11-02f-Run1  
ACTA / Ratio @ Surface for Oct



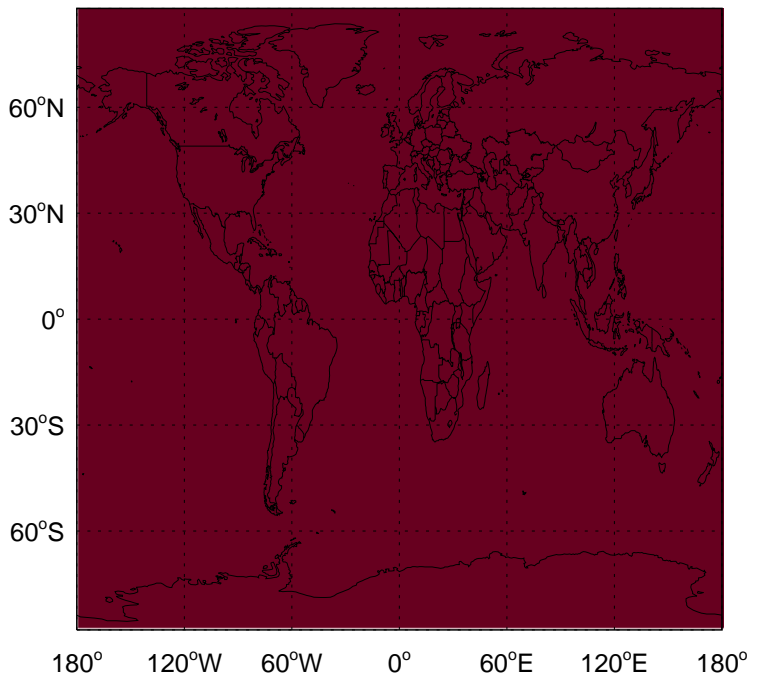
GC\_12.0.0 / v11-02f-Run1  
ACTA / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ACTA / Ratio @ Surface for Oct



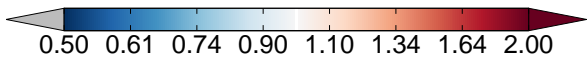
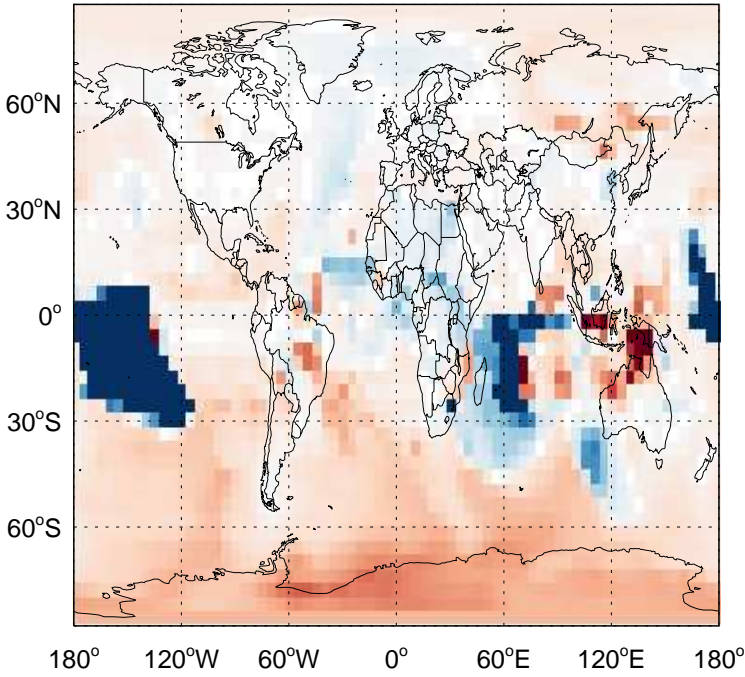
GC\_12.0.0 / v11-02e-Run1  
ACTA / Ratio @ 500 hPa for Oct



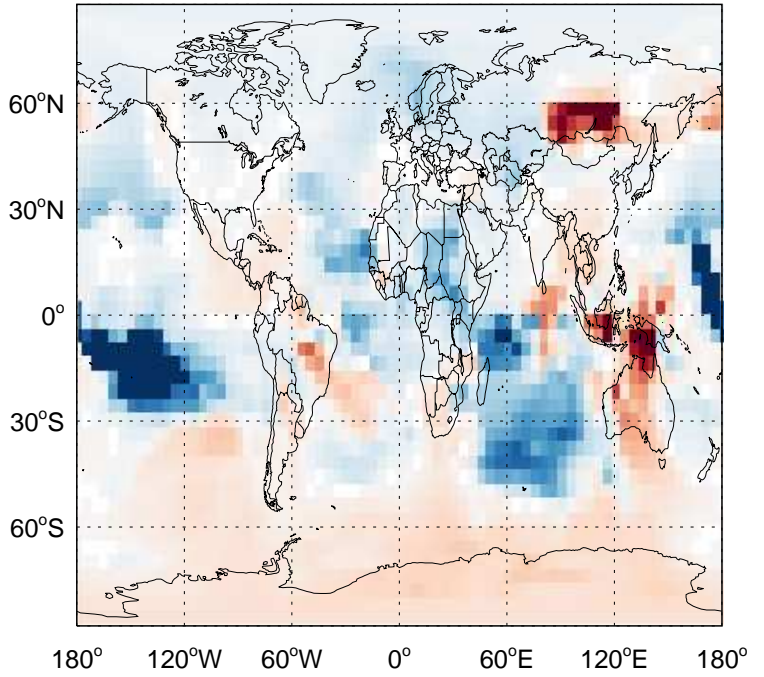


# GEOS-Chem Ratio Maps at surface and 500 hPa

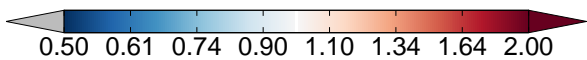
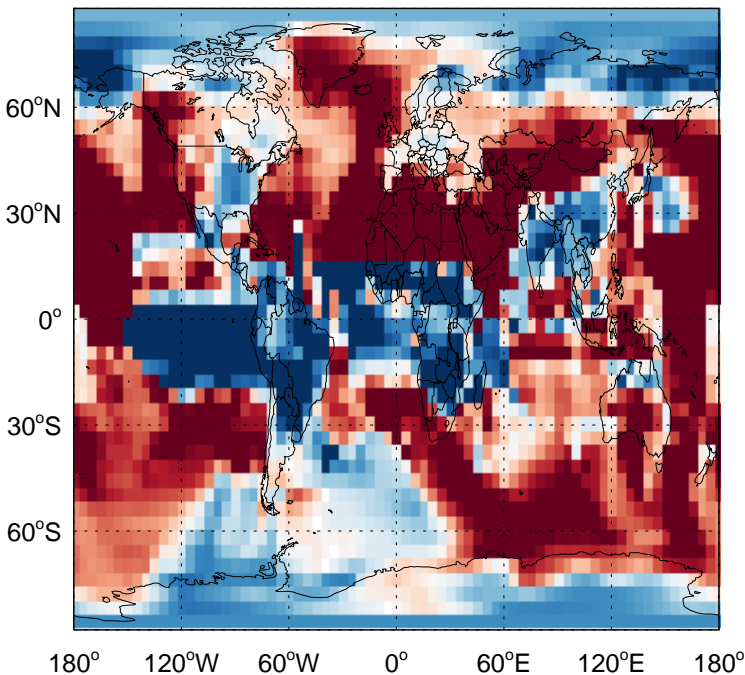
GC\_12.0.0 / v11-02f-Run1  
HPALD / Ratio @ Surface for Oct



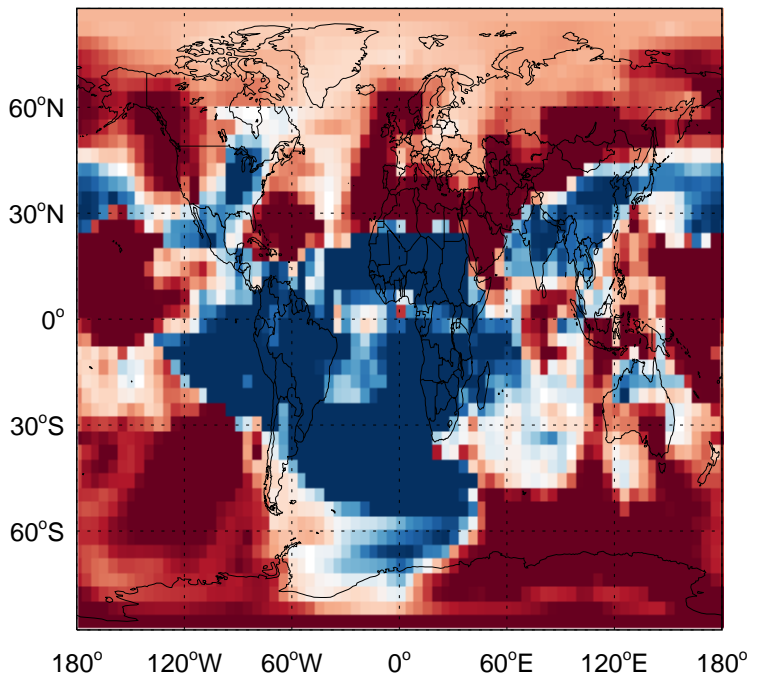
GC\_12.0.0 / v11-02f-Run1  
HPALD/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HPALD / Ratio @ Surface for Oct

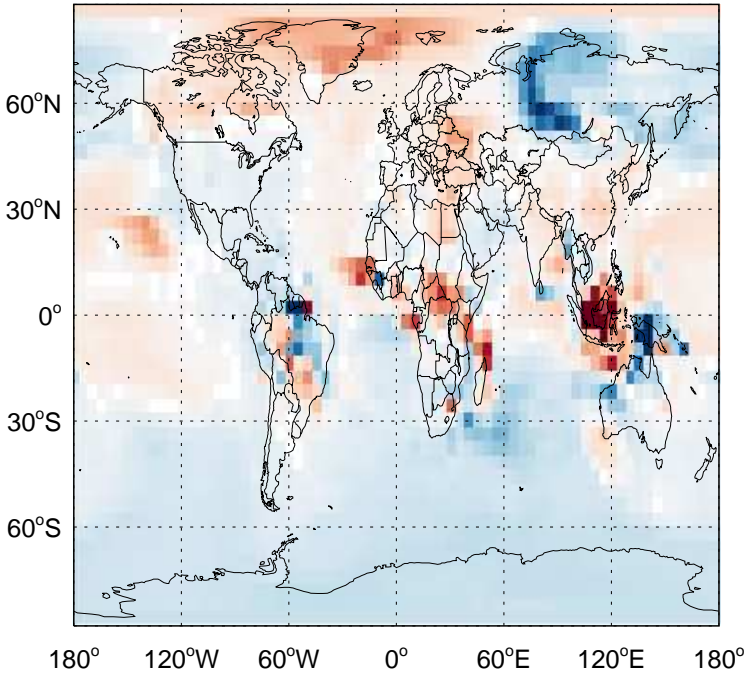


GC\_12.0.0 / v11-02e-Run1  
HPALD/ Ratio @ 500 hPa for Oct

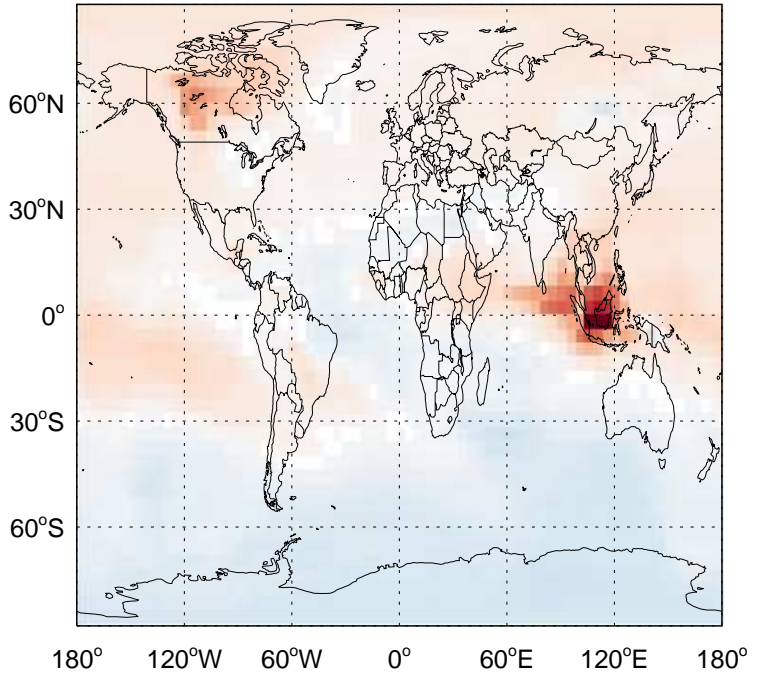


# GEOS-Chem Ratio Maps at surface and 500 hPa

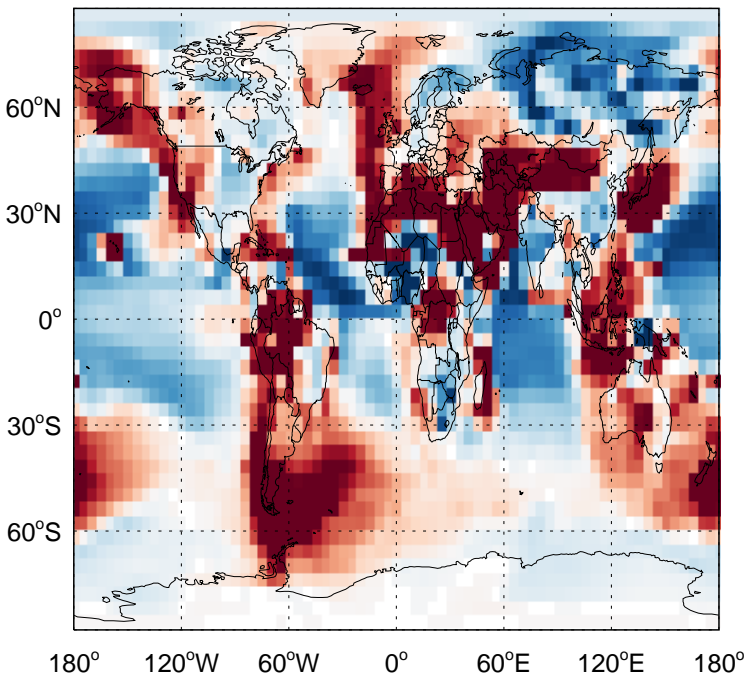
GC\_12.0.0 / v11-02f-Run1  
DHDN / Ratio @ Surface for Oct



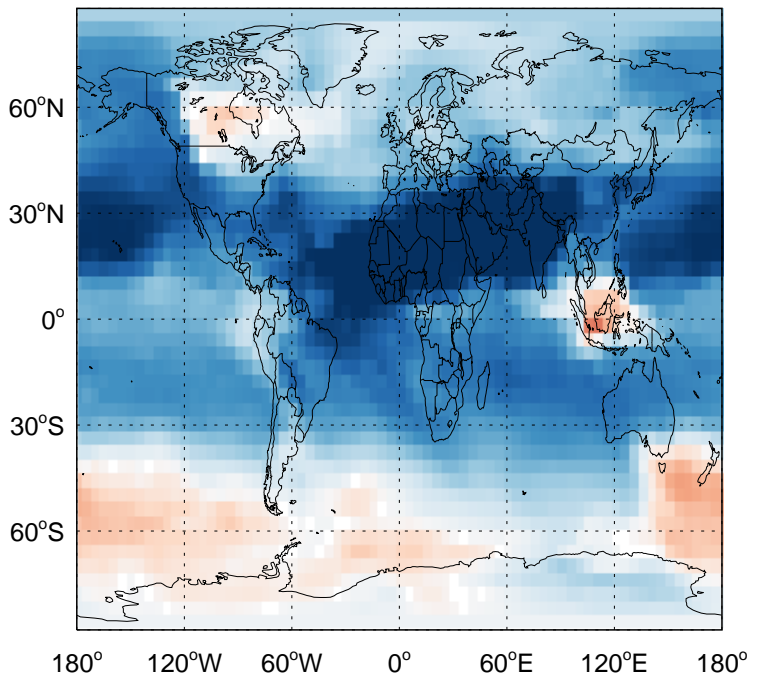
GC\_12.0.0 / v11-02f-Run1  
DHDN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
DHDN / Ratio @ Surface for Oct

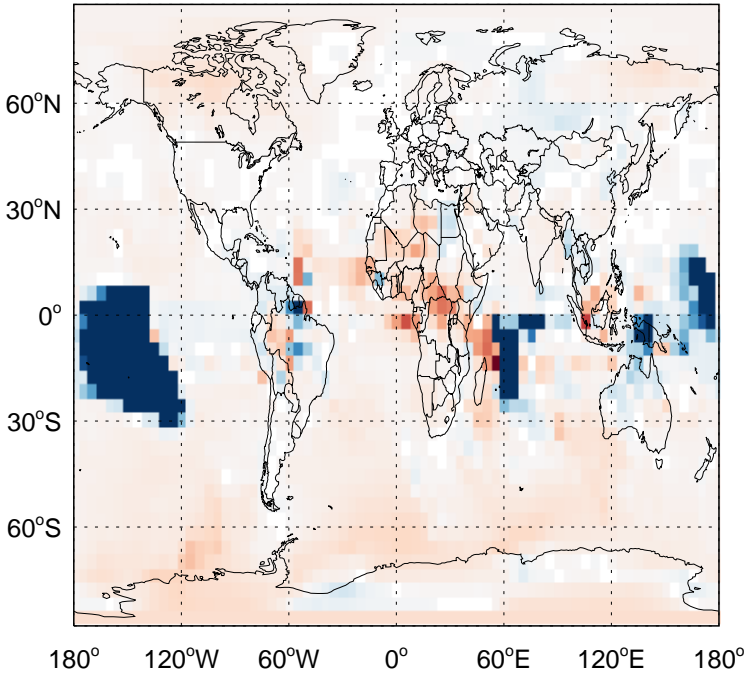


GC\_12.0.0 / v11-02e-Run1  
DHDN/ Ratio @ 500 hPa for Oct

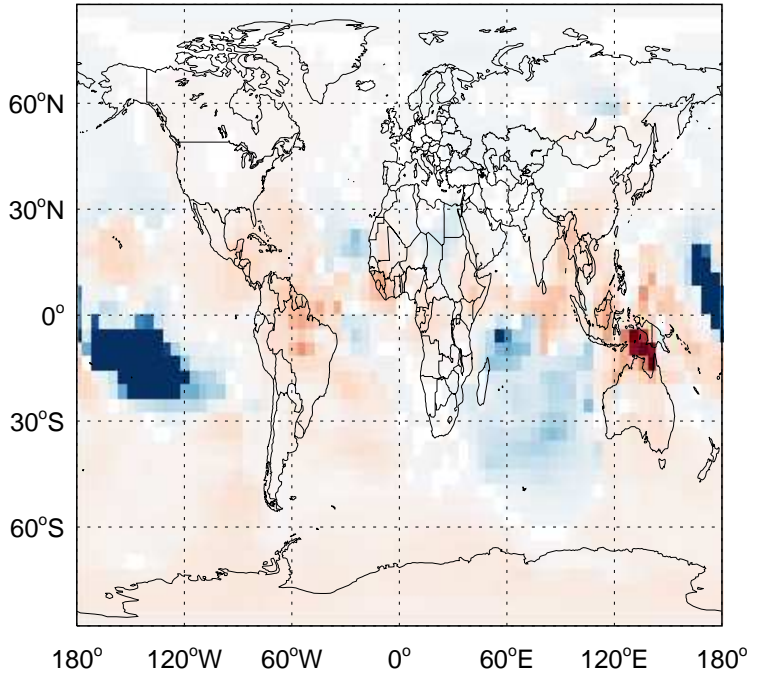


# GEOS-Chem Ratio Maps at surface and 500 hPa

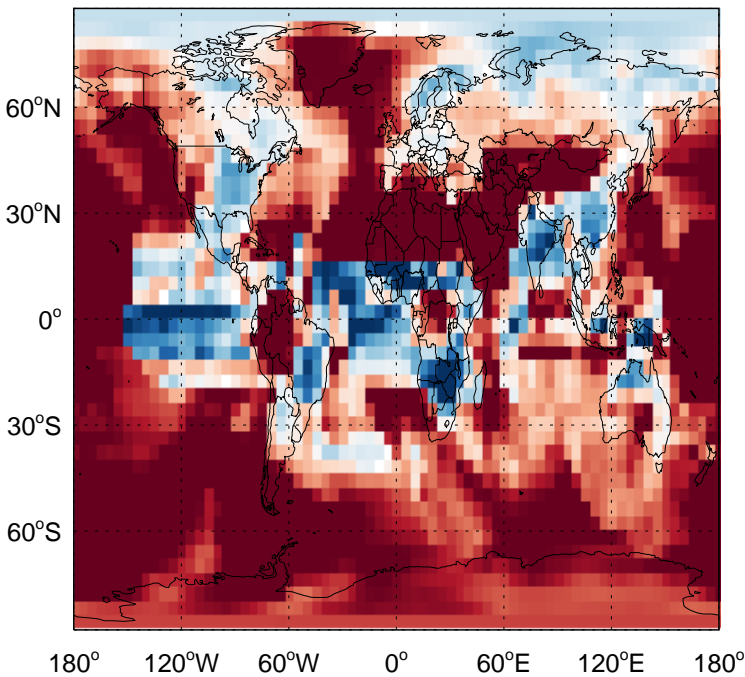
GC\_12.0.0 / v11-02f-Run1  
ETHLN / Ratio @ Surface for Oct



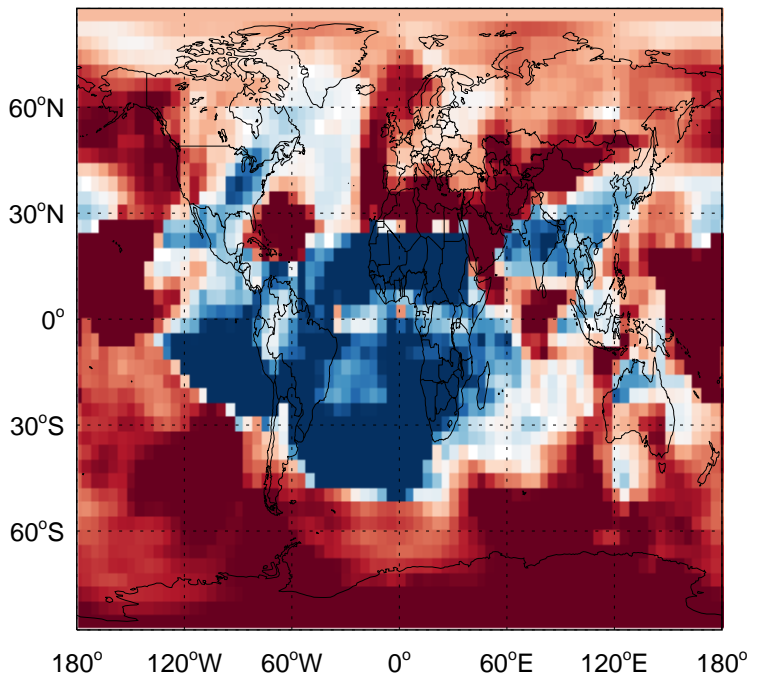
GC\_12.0.0 / v11-02f-Run1  
ETHLN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ETHLN / Ratio @ Surface for Oct



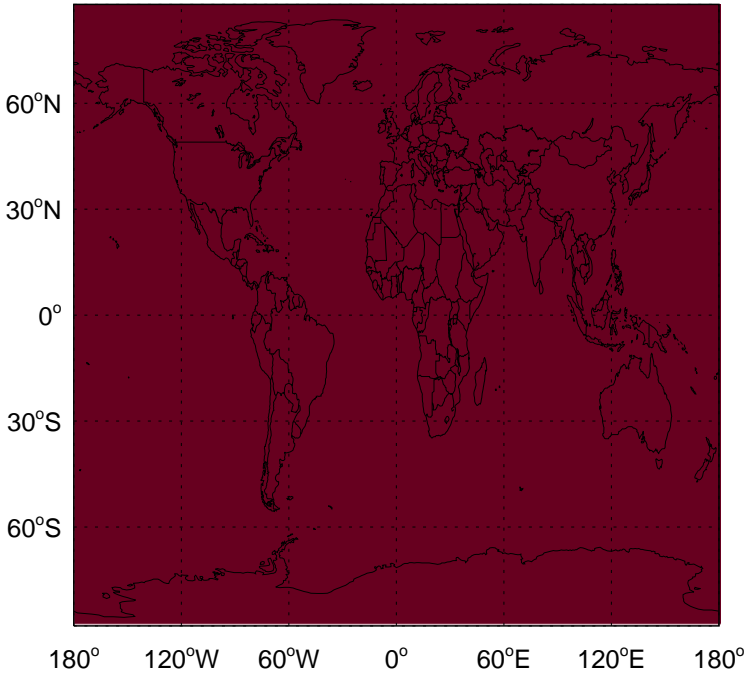
GC\_12.0.0 / v11-02e-Run1  
ETHLN/ Ratio @ 500 hPa for Oct



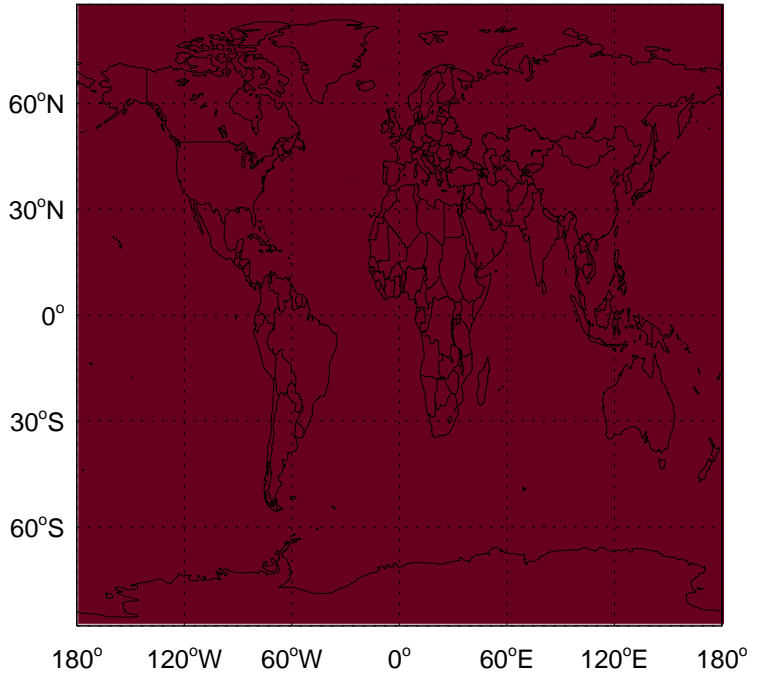


# GEOS-Chem Ratio Maps at surface and 500 hPa

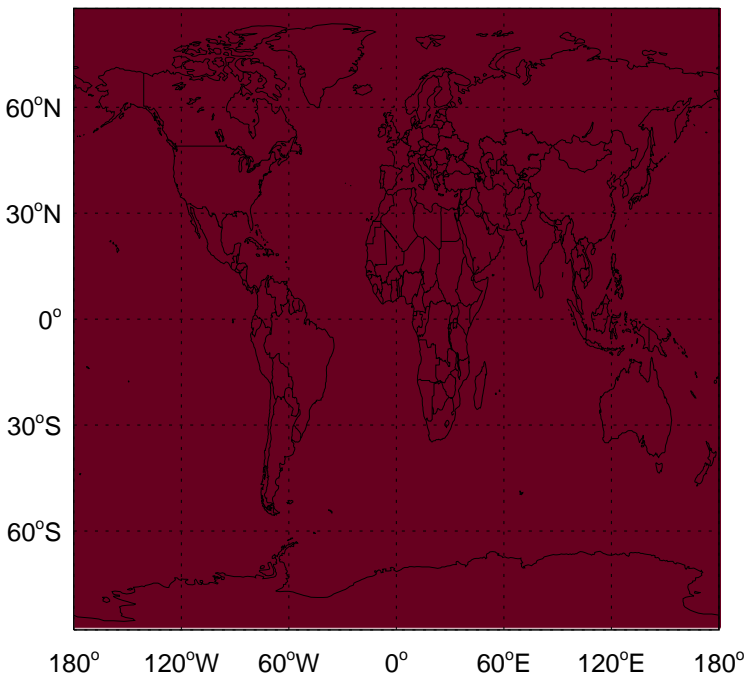
GC\_12.0.0 / v11-02f-Run1  
HCOOH / Ratio @ Surface for Oct



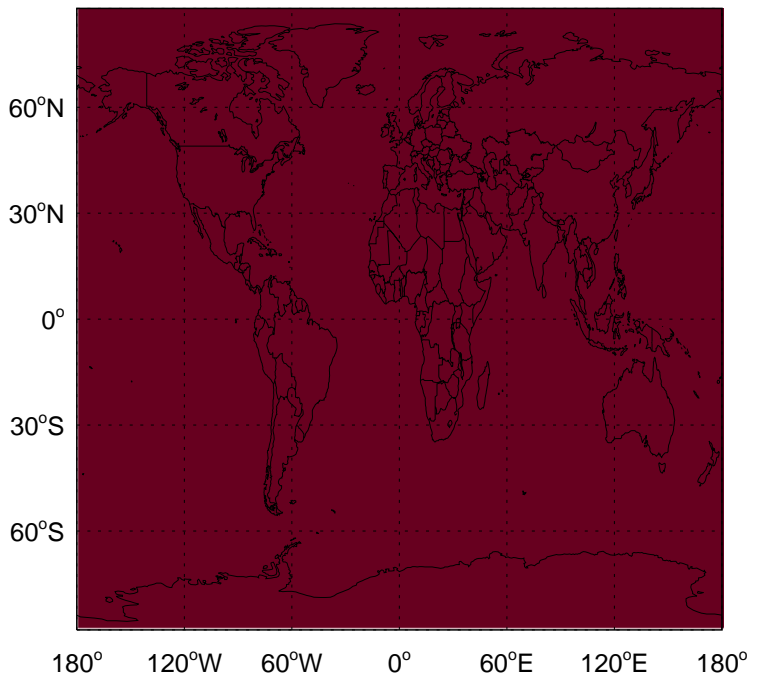
GC\_12.0.0 / v11-02f-Run1  
HCOOH / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCOOH / Ratio @ Surface for Oct

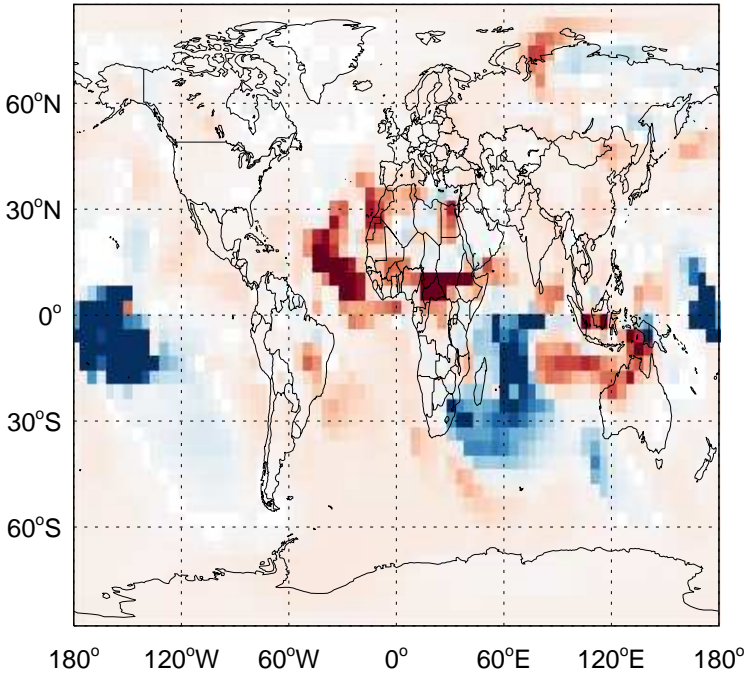


GC\_12.0.0 / v11-02e-Run1  
HCOOH / Ratio @ 500 hPa for Oct

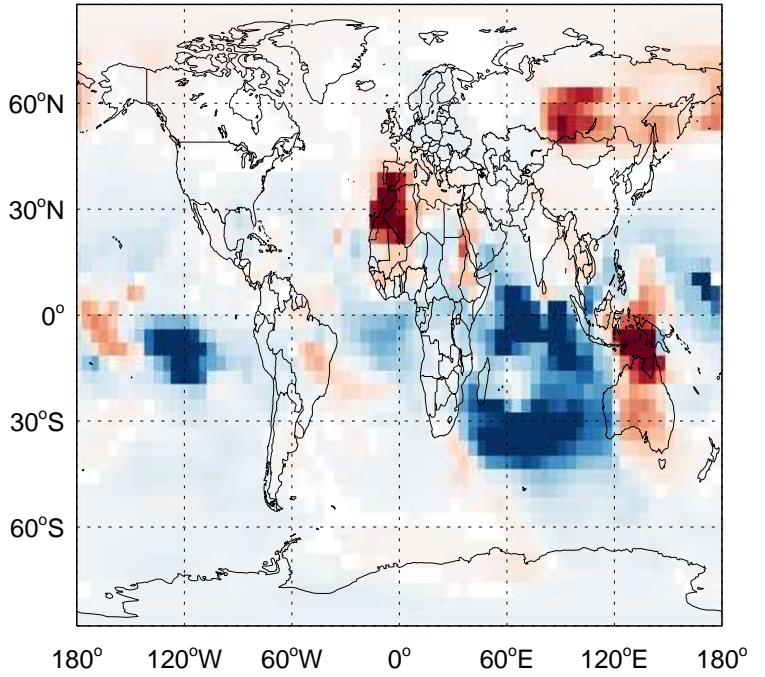


# GEOS-Chem Ratio Maps at surface and 500 hPa

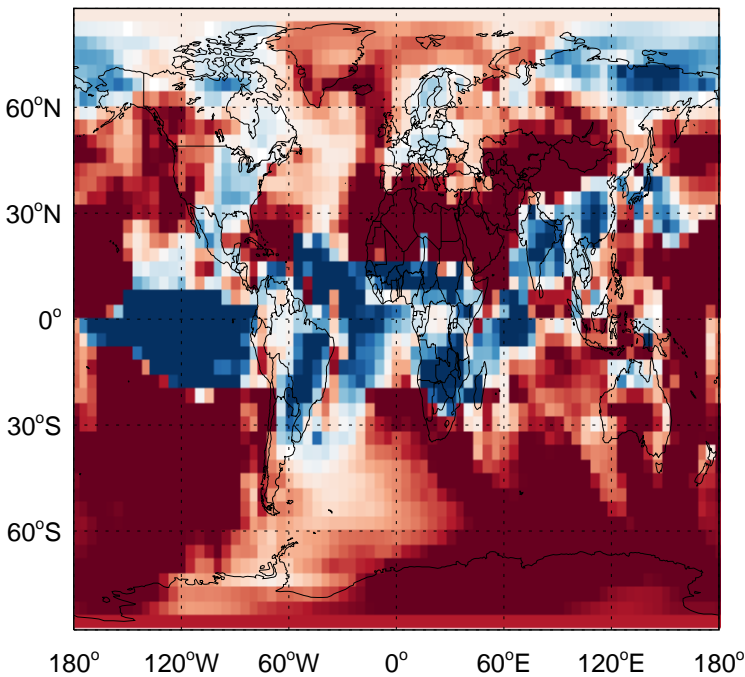
GC\_12.0.0 / v11-02f-Run1  
IEPOXA / Ratio @ Surface for Oct



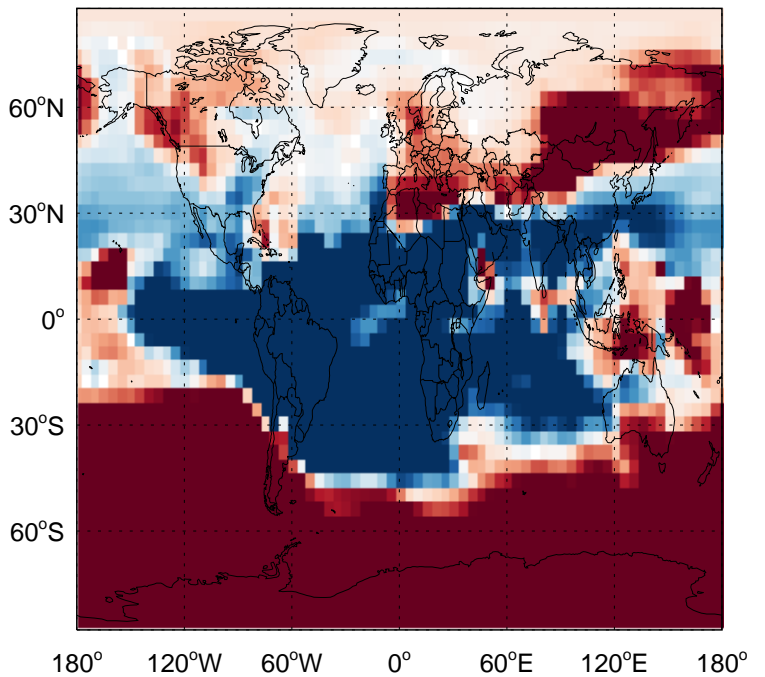
GC\_12.0.0 / v11-02f-Run1  
IEPOXA / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IEPOXA / Ratio @ Surface for Oct

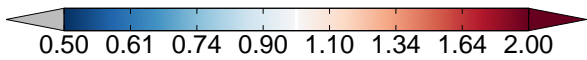
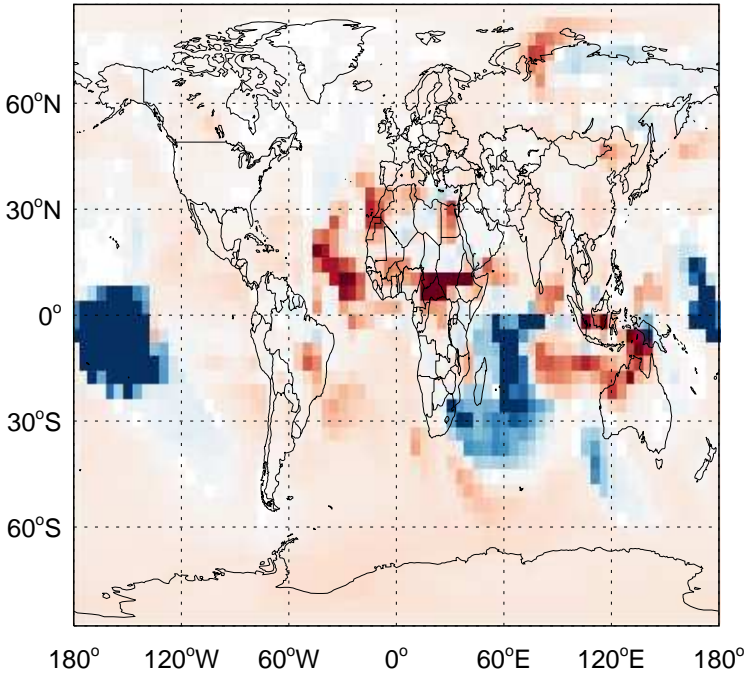


GC\_12.0.0 / v11-02e-Run1  
IEPOXA / Ratio @ 500 hPa for Oct

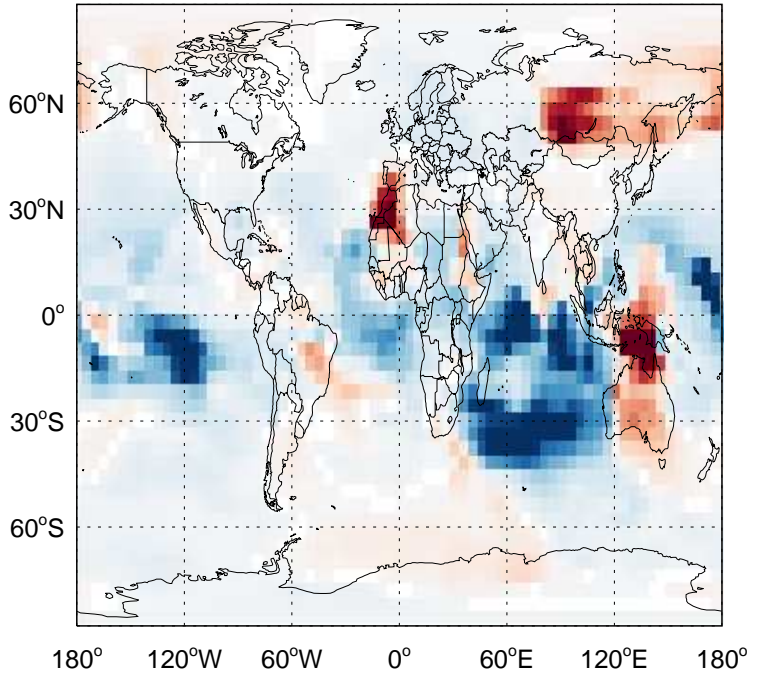


# GEOS-Chem Ratio Maps at surface and 500 hPa

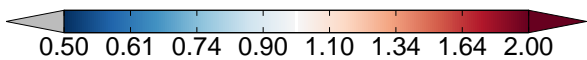
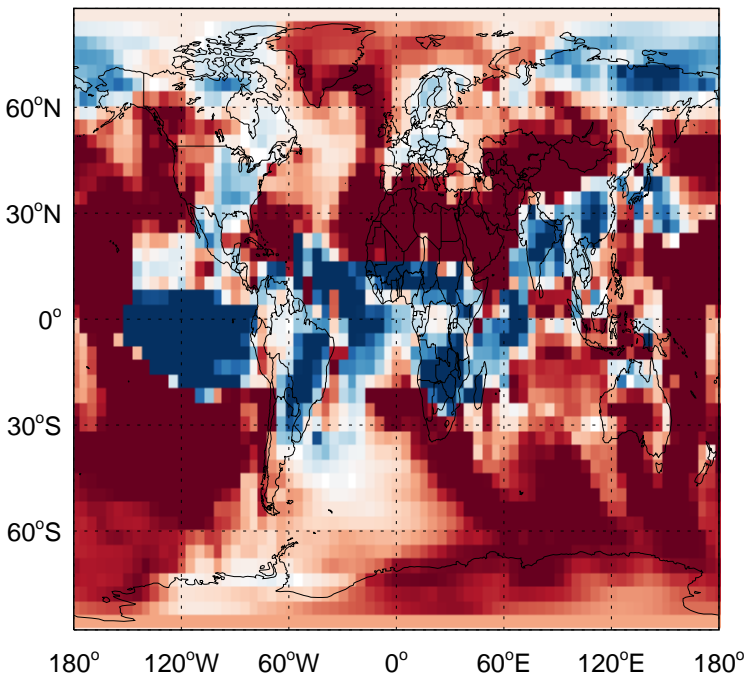
GC\_12.0.0 / v11-02f-Run1  
IEPOXB / Ratio @ Surface for Oct



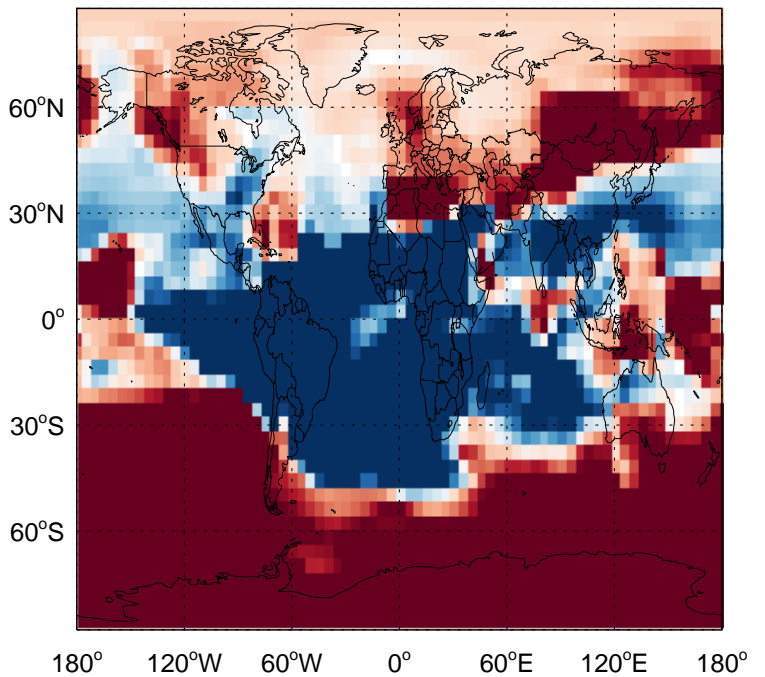
GC\_12.0.0 / v11-02f-Run1  
IEPOXB/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IEPOXB / Ratio @ Surface for Oct



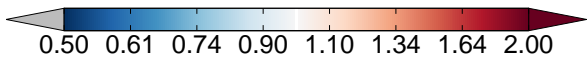
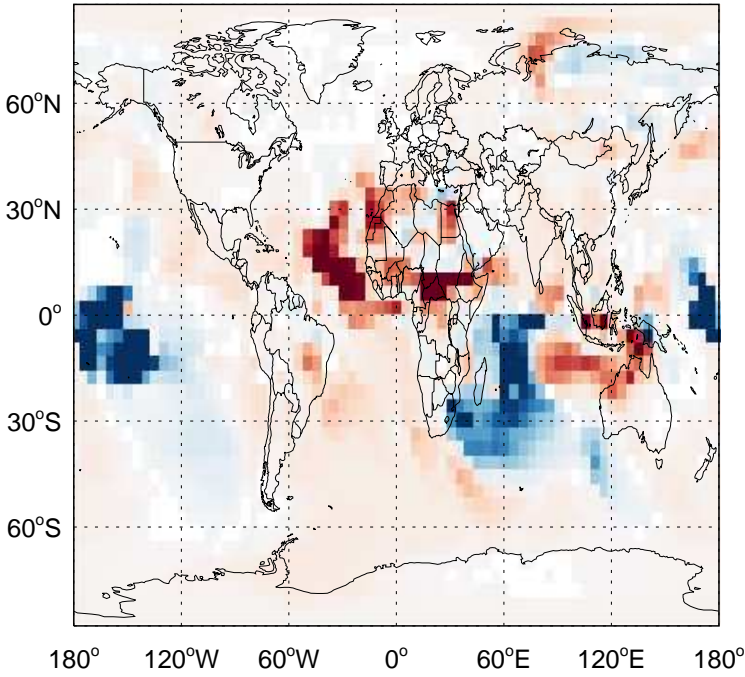
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IEPOXB/ Ratio @ 500 hPa for Oct



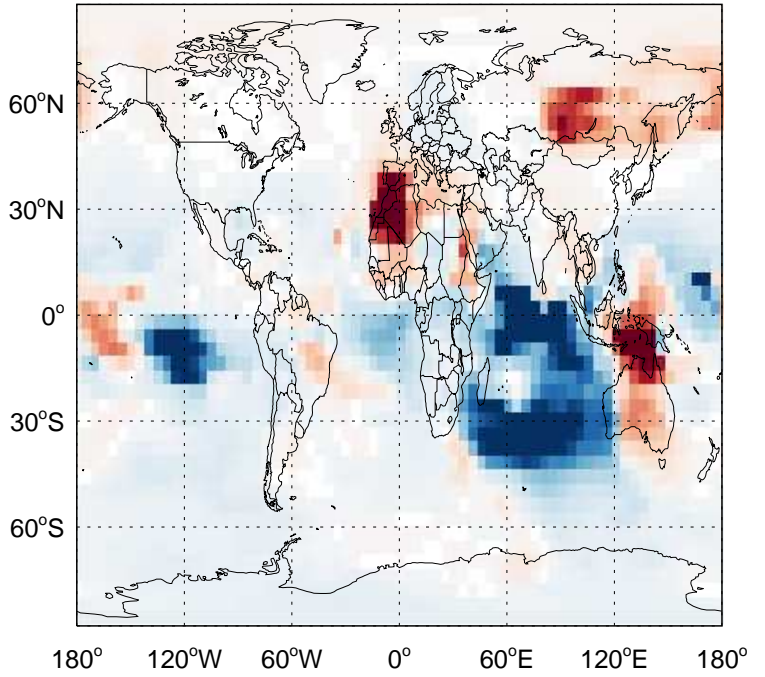


# GEOS-Chem Ratio Maps at surface and 500 hPa

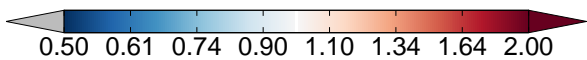
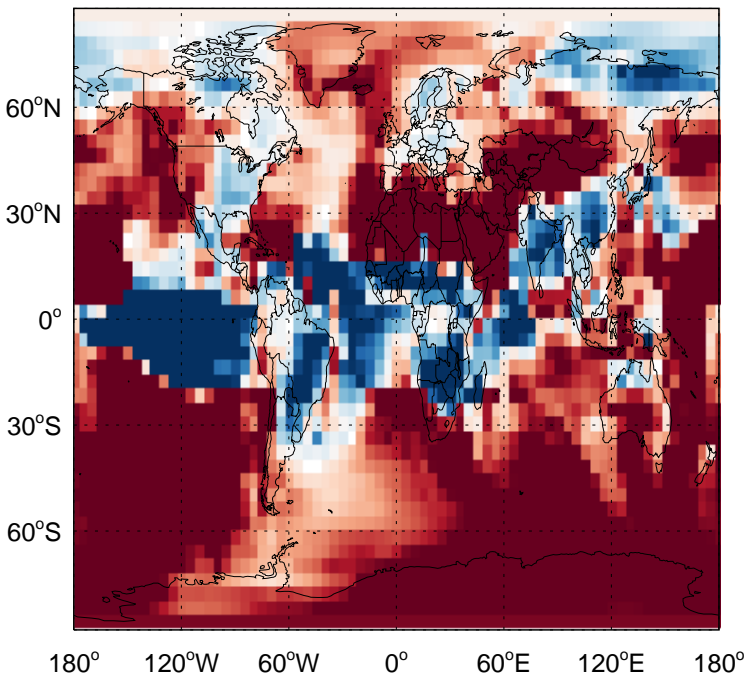
GC\_12.0.0 / v11-02f-Run1  
IEPOXD / Ratio @ Surface for Oct



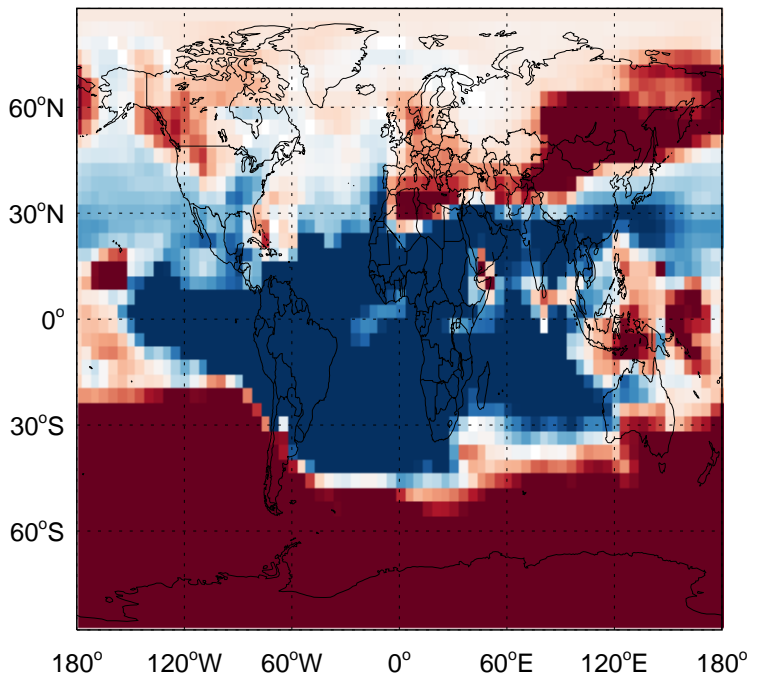
GC\_12.0.0 / v11-02f-Run1  
IEPOXD/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IEPOXD / Ratio @ Surface for Oct

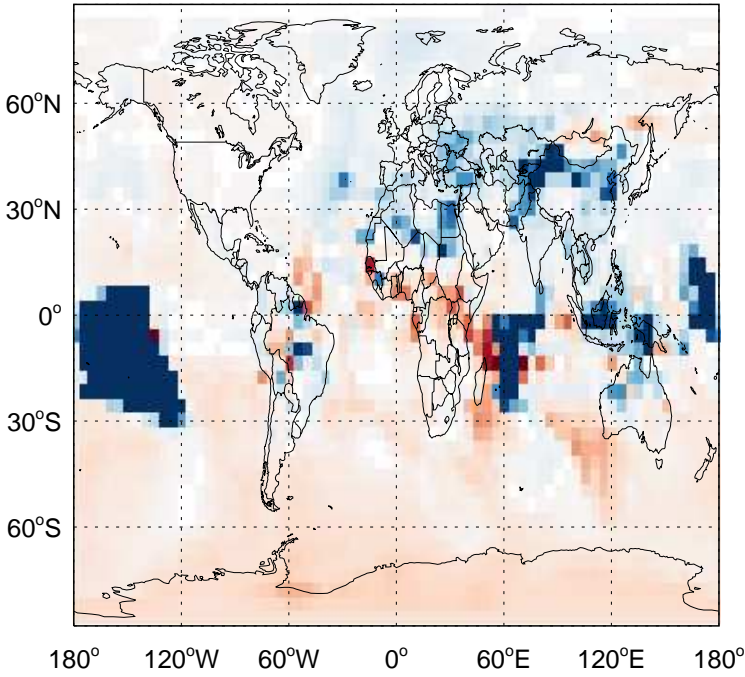


GC\_12.0.0 / v11-02e-Run1  
IEPOXD/ Ratio @ 500 hPa for Oct

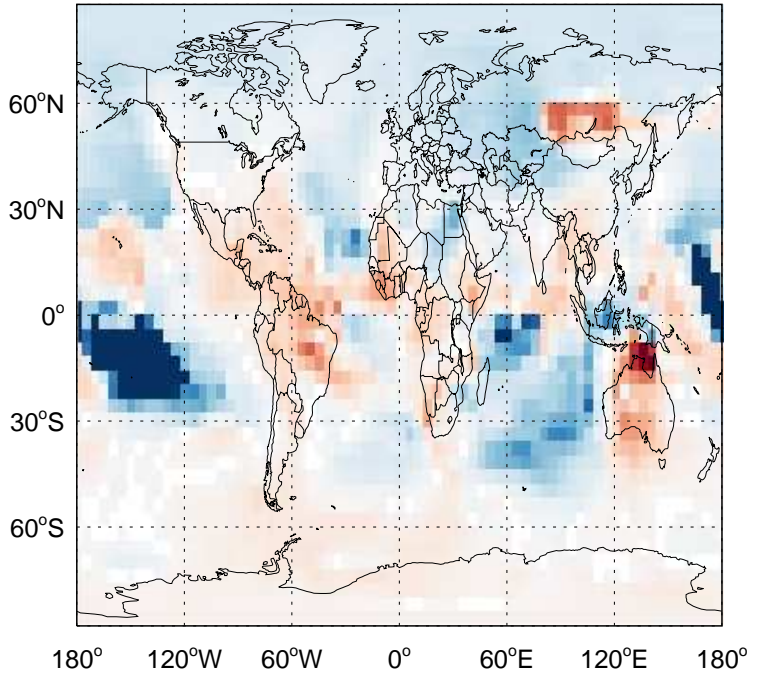


# GEOS-Chem Ratio Maps at surface and 500 hPa

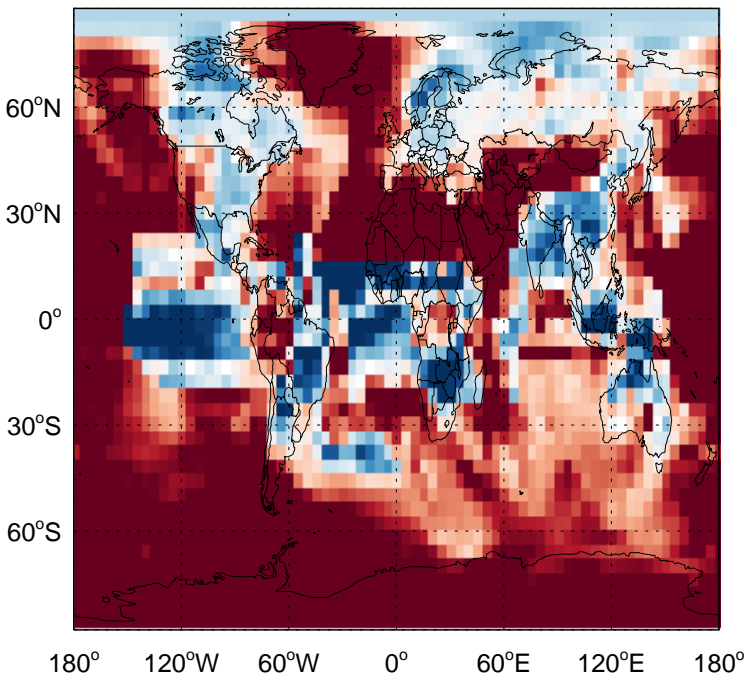
GC\_12.0.0 / v11-02f-Run1  
ISN1 / Ratio @ Surface for Oct



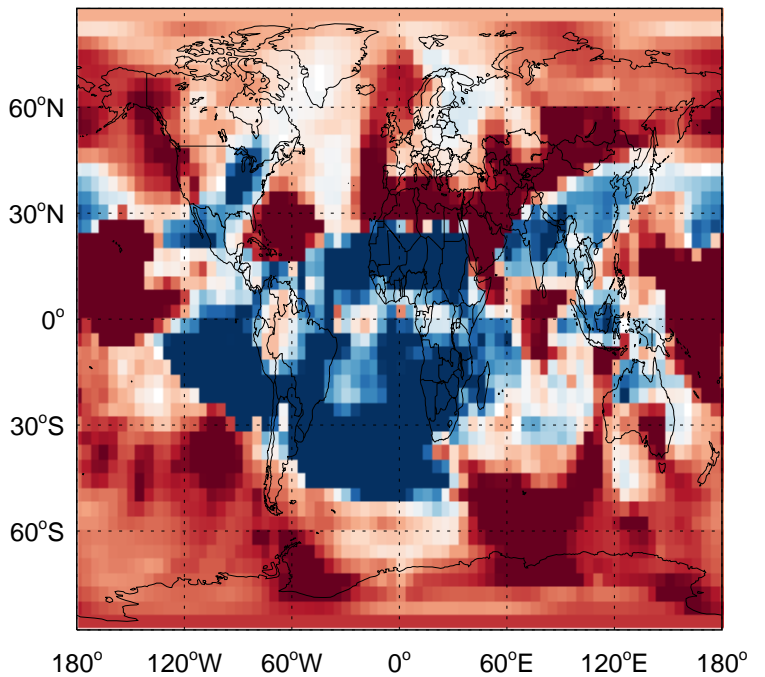
GC\_12.0.0 / v11-02f-Run1  
ISN1/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISN1 / Ratio @ Surface for Oct

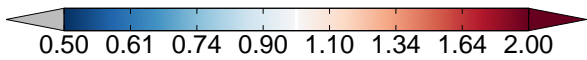
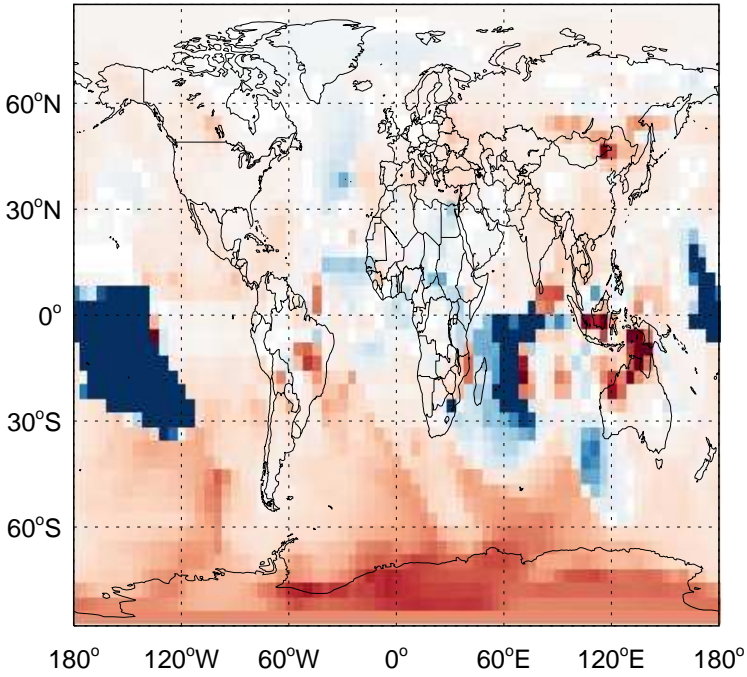


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ISN1/ Ratio @ 500 hPa for Oct

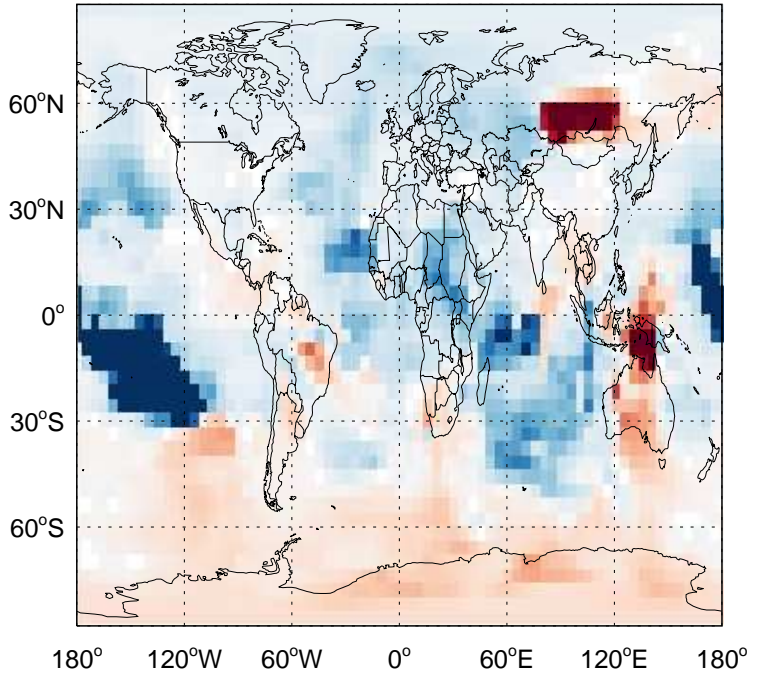


# GEOS-Chem Ratio Maps at surface and 500 hPa

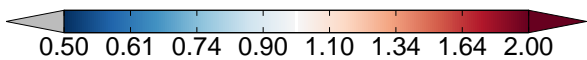
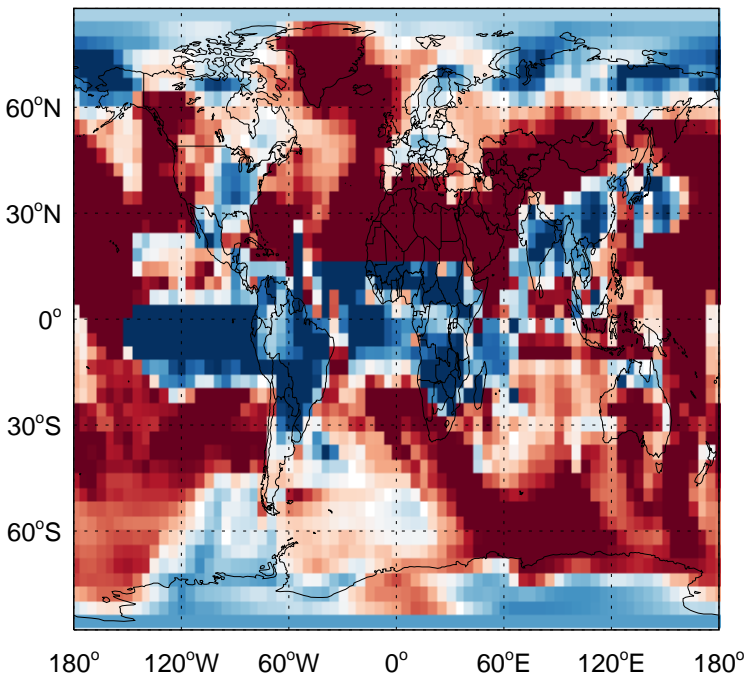
GC\_12.0.0 / v11-02f-Run1  
RIPA / Ratio @ Surface for Oct



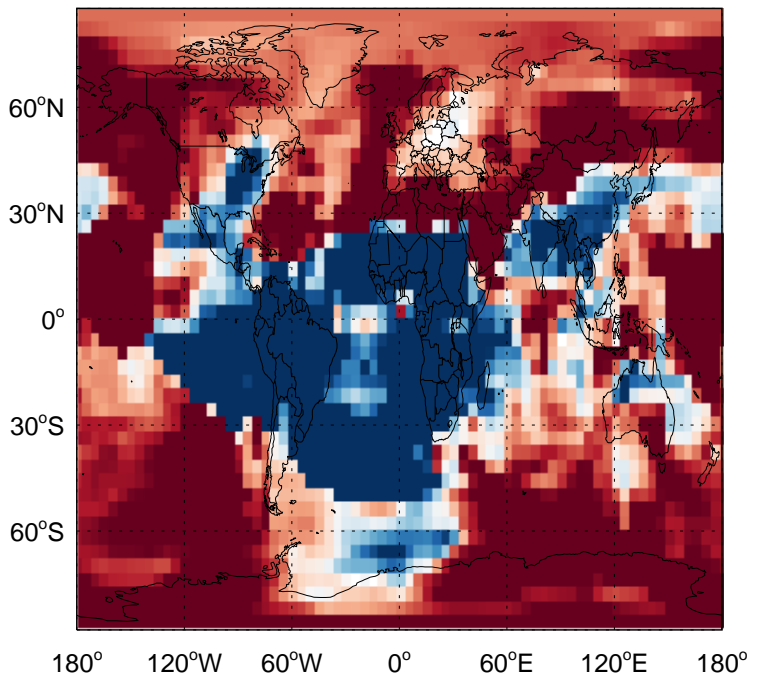
GC\_12.0.0 / v11-02f-Run1  
RIPA / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
RIPA / Ratio @ Surface for Oct



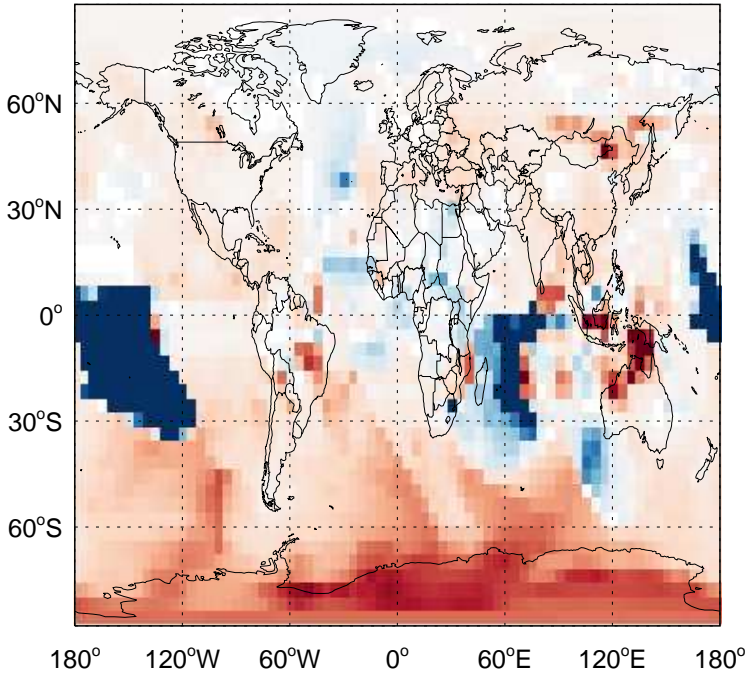
GC\_12.0.0 / v11-02e-Run1  
RIPA / Ratio @ 500 hPa for Oct



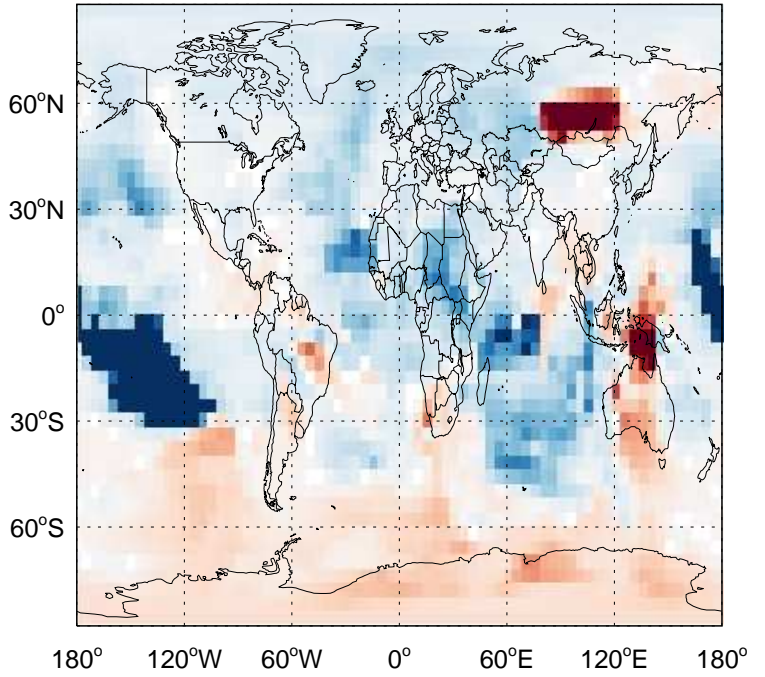


# GEOS-Chem Ratio Maps at surface and 500 hPa

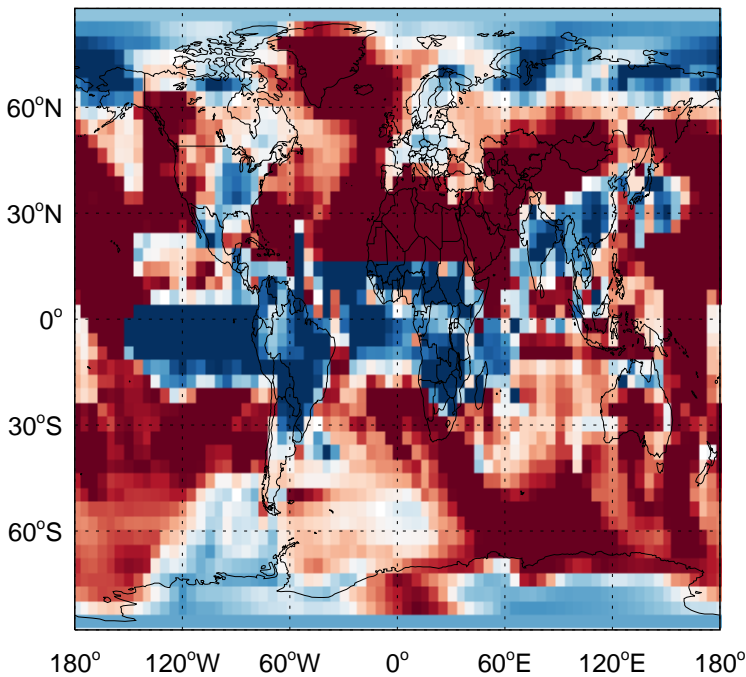
GC\_12.0.0 / v11-02f-Run1  
RIPB / Ratio @ Surface for Oct



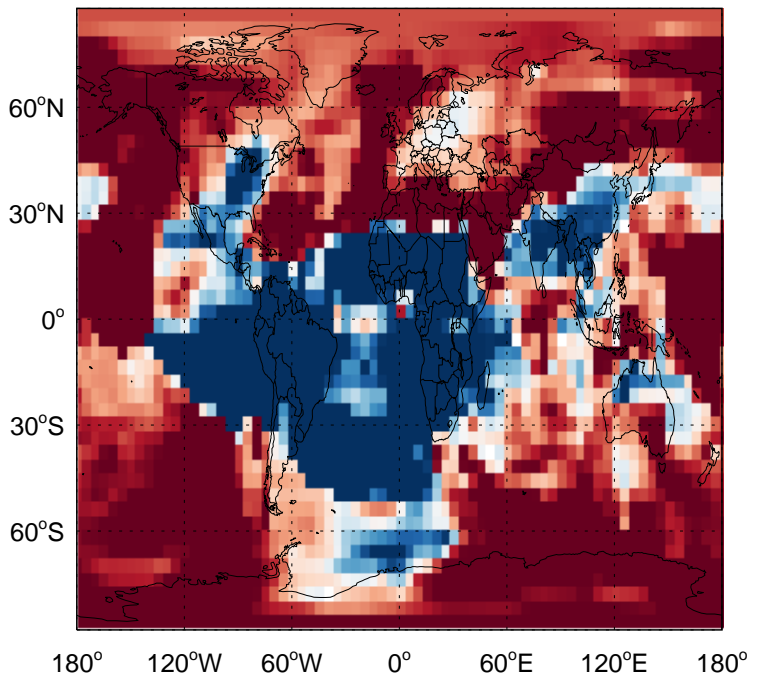
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RIPB / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
RIPB / Ratio @ Surface for Oct

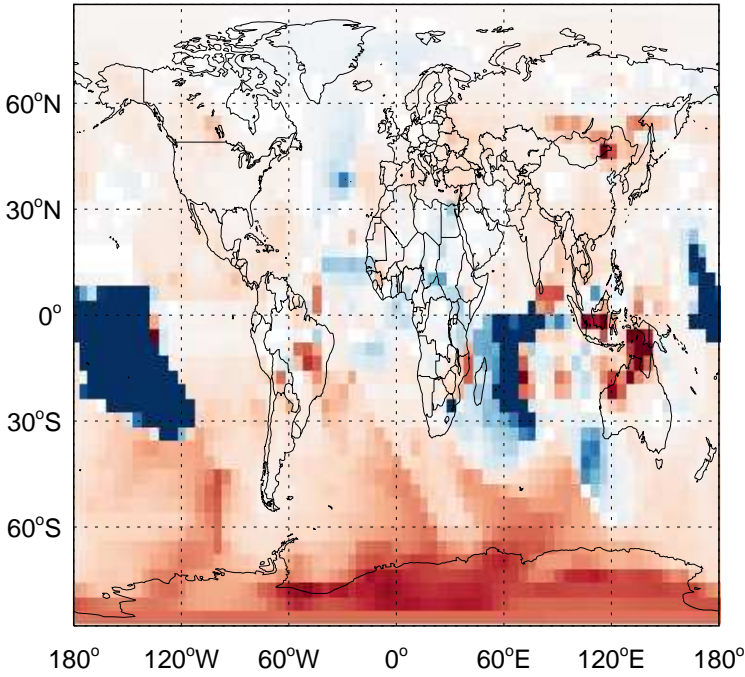


GC\_12.0.0 / v11-02e-Run1  
RIPB / Ratio @ 500 hPa for Oct

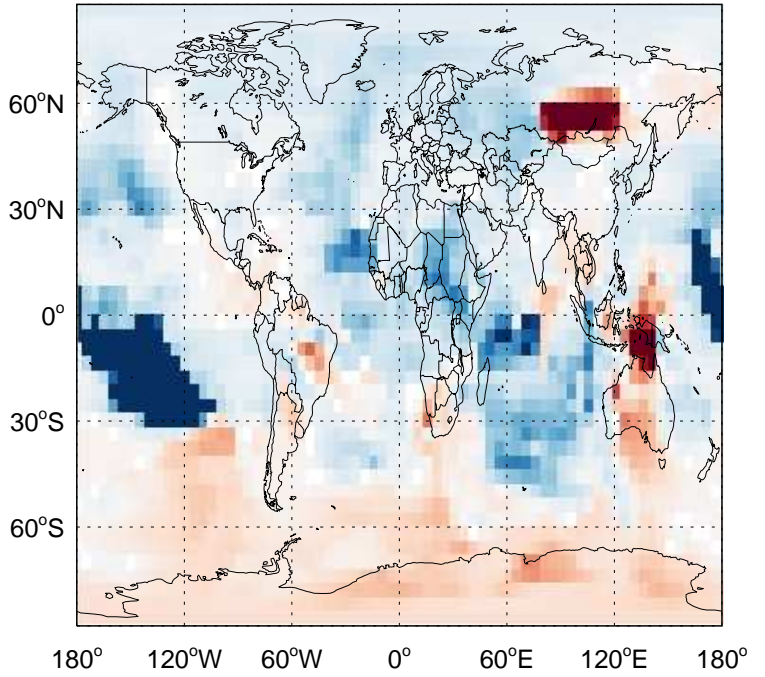


# GEOS-Chem Ratio Maps at surface and 500 hPa

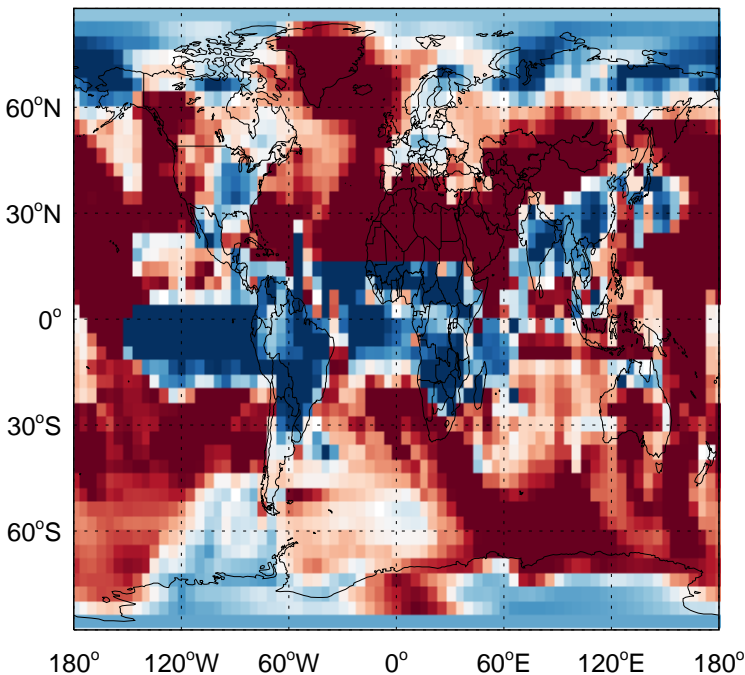
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RIPD / Ratio @ Surface for Oct



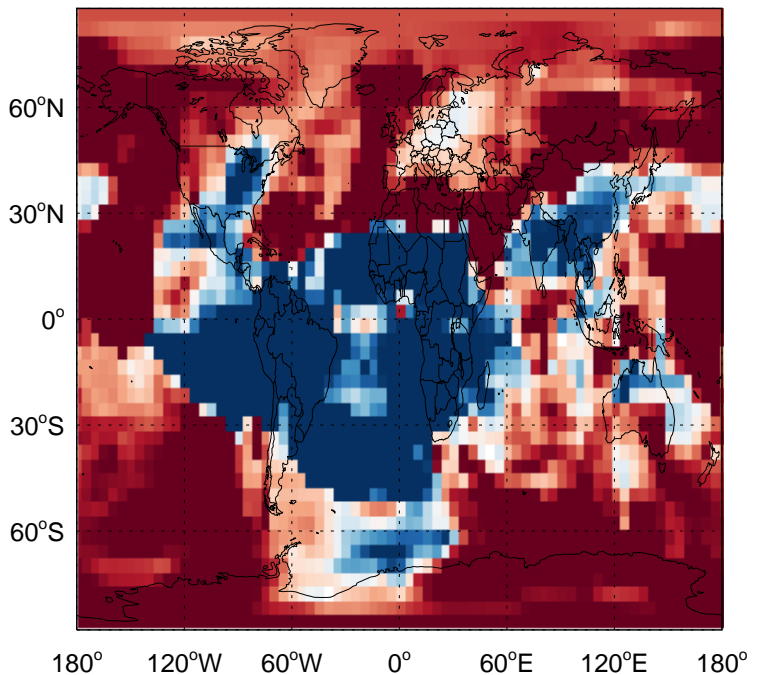
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RIPD / Ratio @ 500 hPa for Oct



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RIPD / Ratio @ Surface for Oct

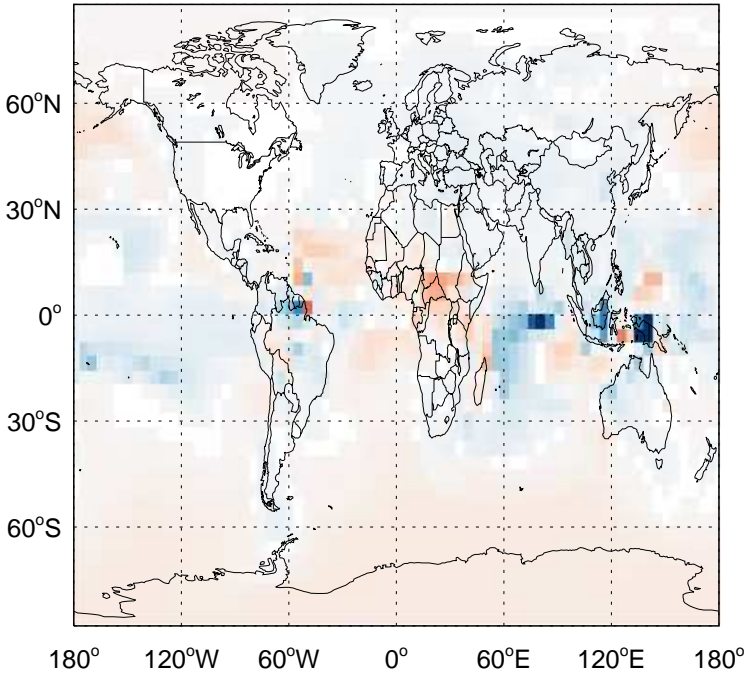


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RIPD / Ratio @ 500 hPa for Oct

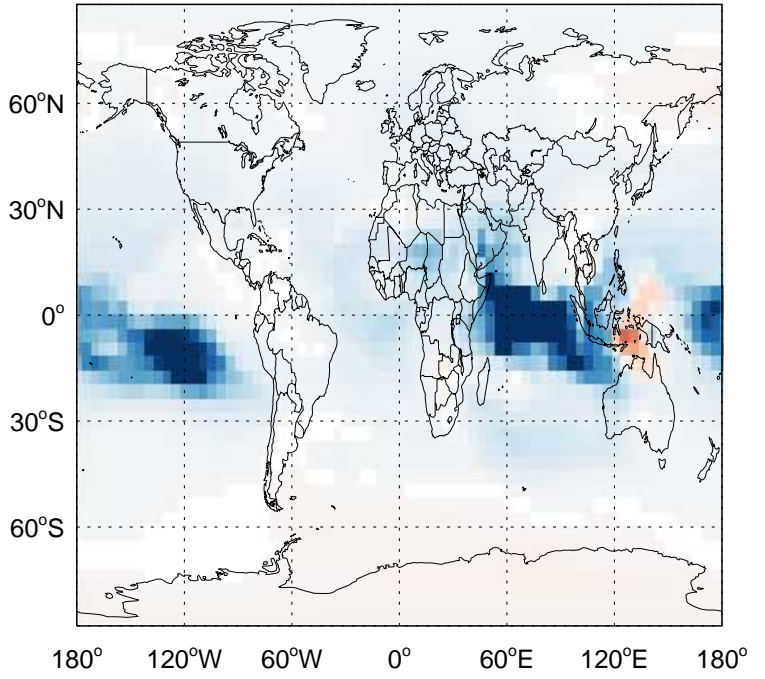


# GEOS-Chem Ratio Maps at surface and 500 hPa

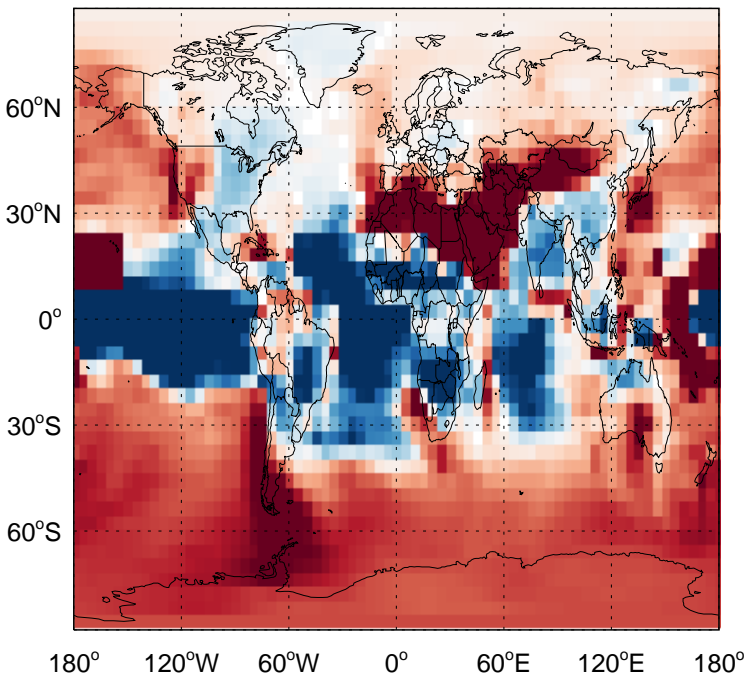
GC\_12.0.0 / v11-02f-Run1  
IMAE / Ratio @ Surface for Oct



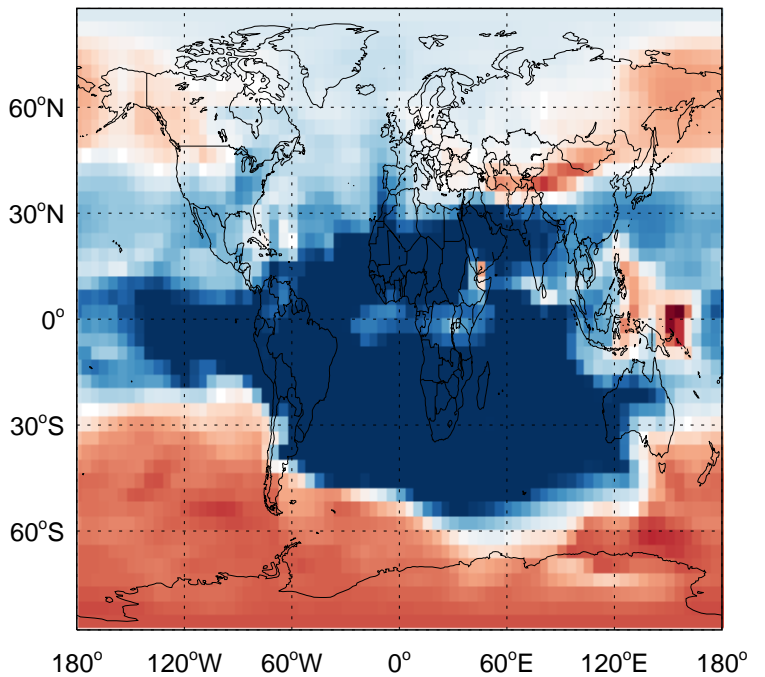
GC\_12.0.0 / v11-02f-Run1  
IMAE/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IMAE / Ratio @ Surface for Oct



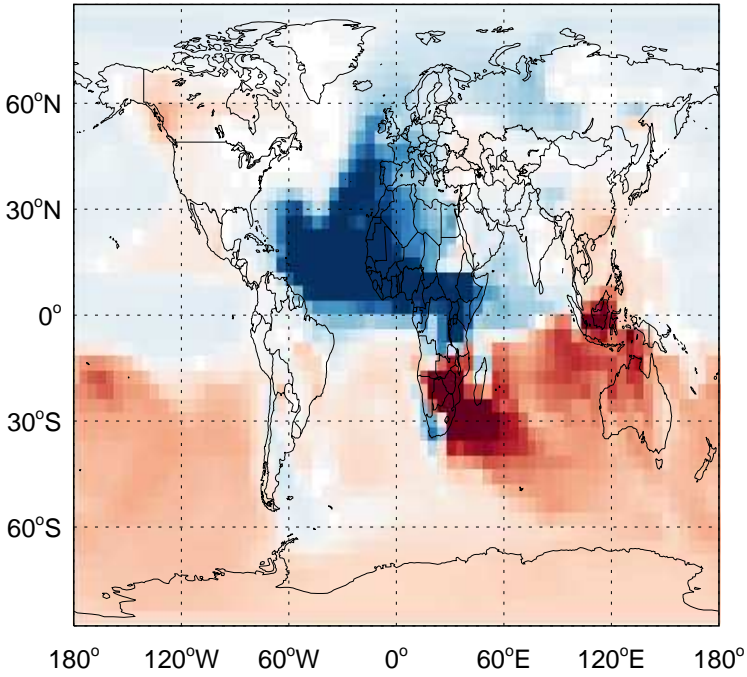
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IMAE/ Ratio @ 500 hPa for Oct



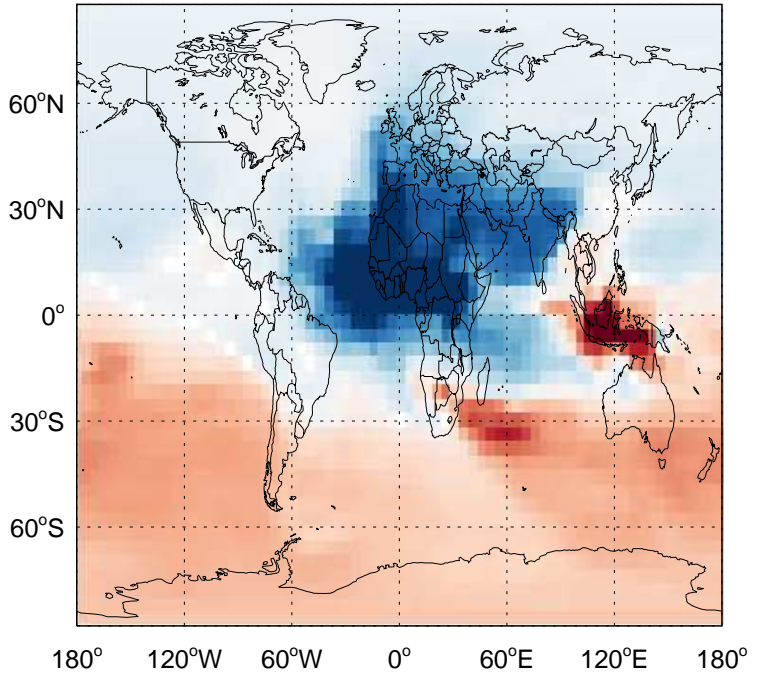


# GEOS-Chem Ratio Maps at surface and 500 hPa

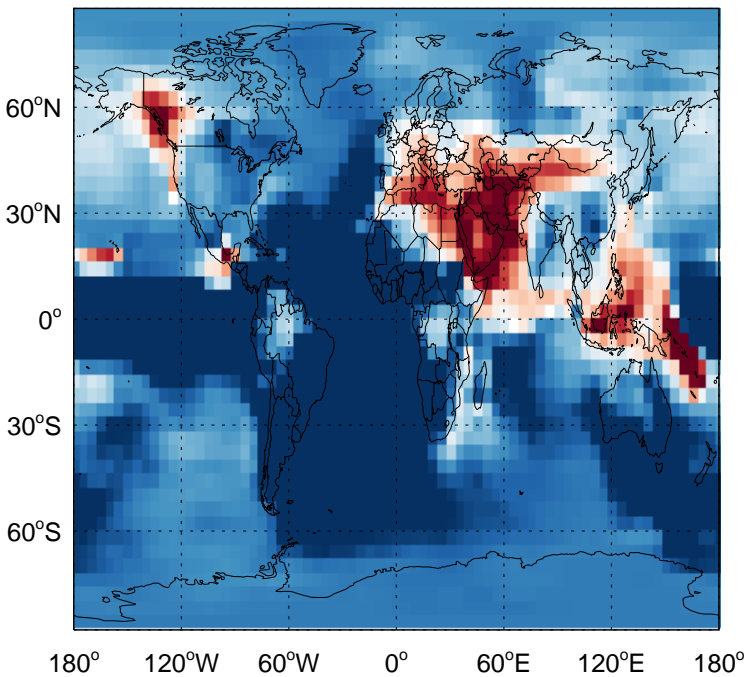
GC\_12.0.0 / v11-02f-Run1  
SOAIE / Ratio @ Surface for Oct



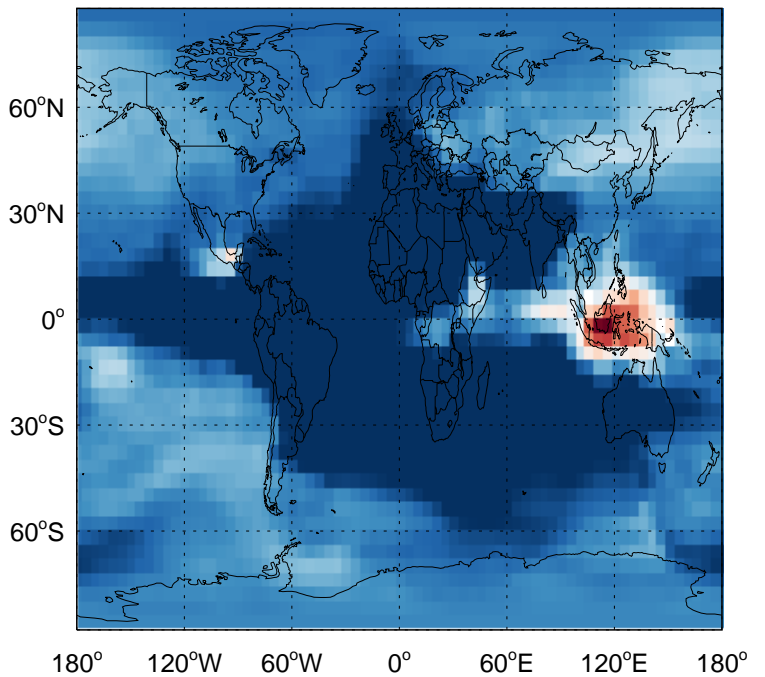
GC\_12.0.0 / v11-02f-Run1  
SOAIE/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAIE / Ratio @ Surface for Oct

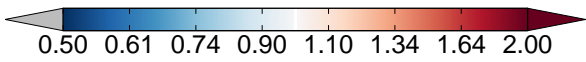
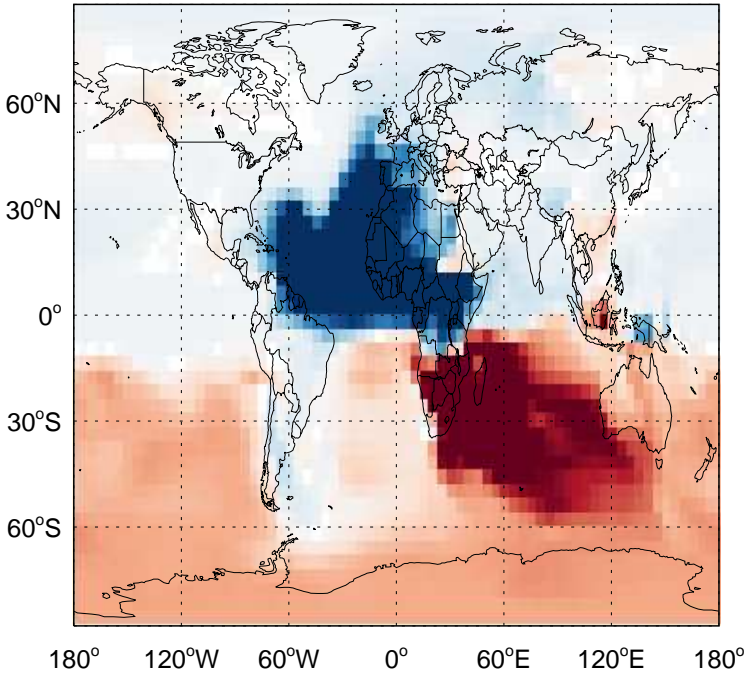


GC\_12.0.0 / v11-02e-Run1  
SOAIE/ Ratio @ 500 hPa for Oct

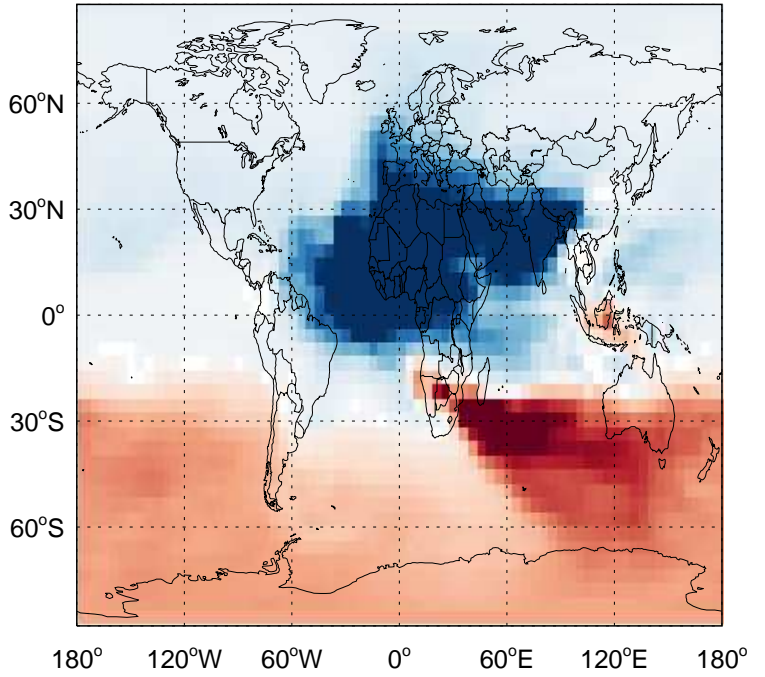


# GEOS-Chem Ratio Maps at surface and 500 hPa

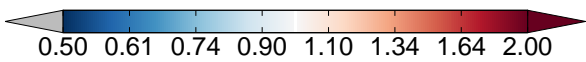
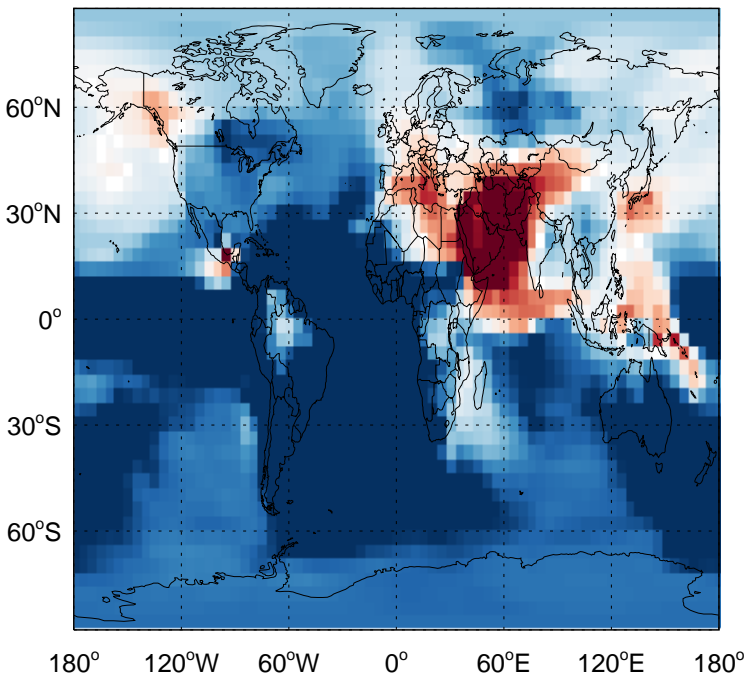
GC\_12.0.0 / v11-02f-Run1  
SOAME / Ratio @ Surface for Oct



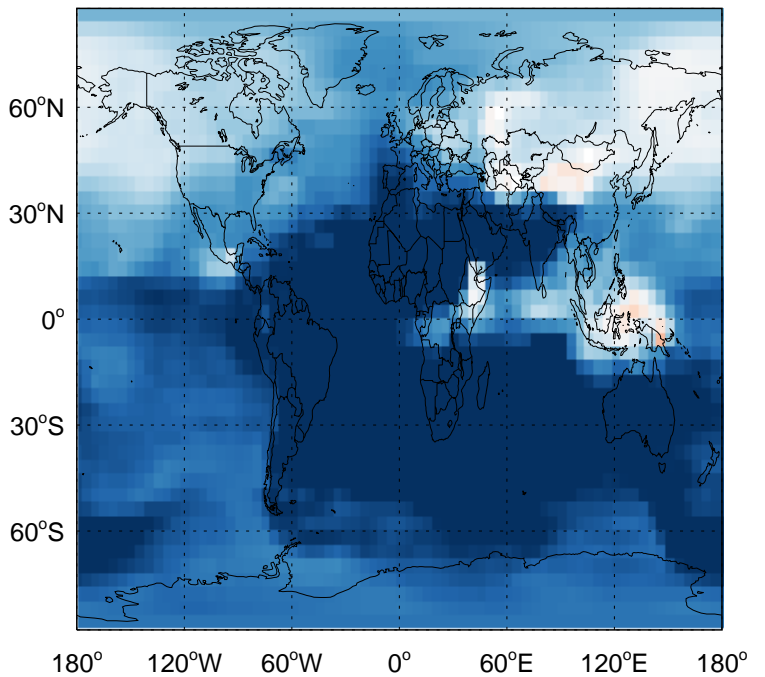
GC\_12.0.0 / v11-02f-Run1  
SOAME/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAME / Ratio @ Surface for Oct

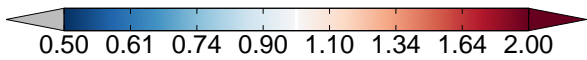
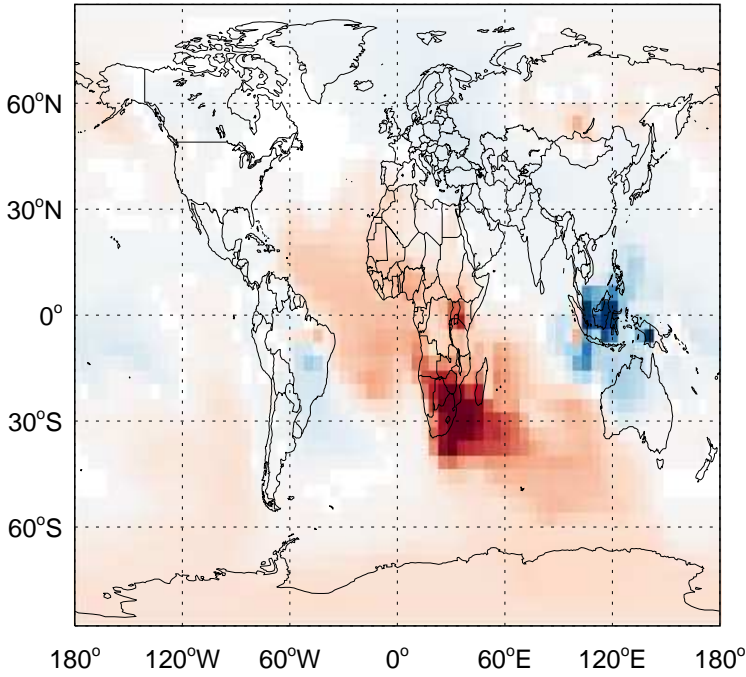


GC\_12.0.0 / v11-02e-Run1  
SOAME/ Ratio @ 500 hPa for Oct

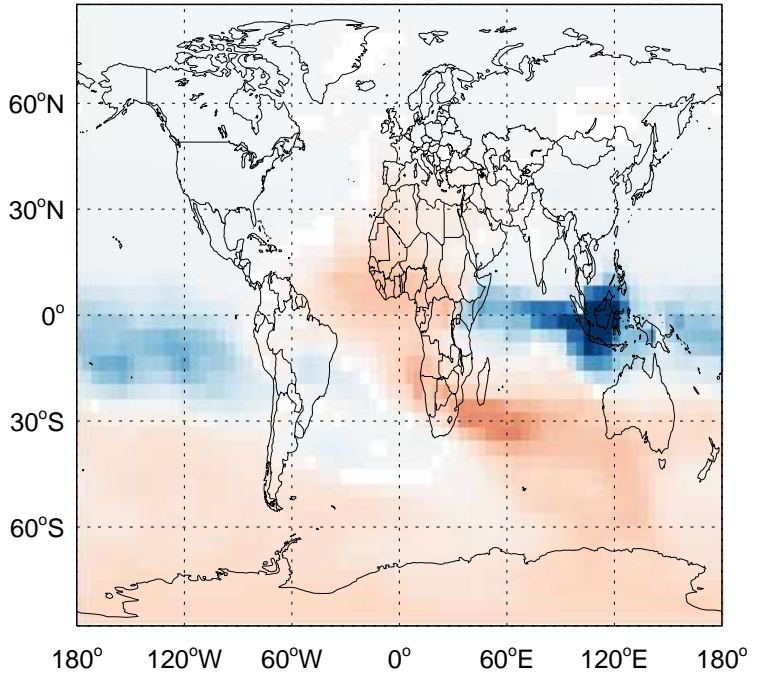


# GEOS-Chem Ratio Maps at surface and 500 hPa

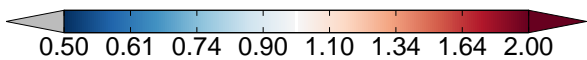
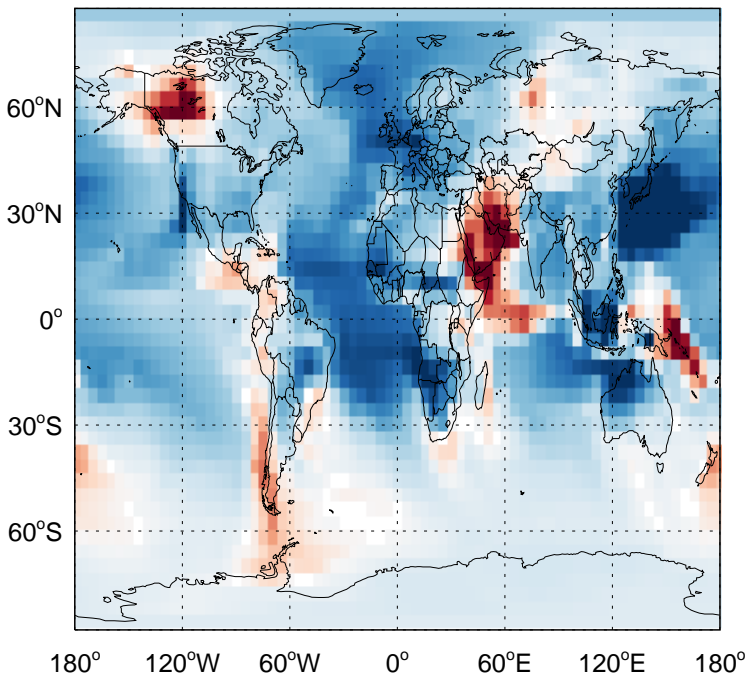
GC\_12.0.0 / v11-02f-Run1  
SOAGX / Ratio @ Surface for Oct



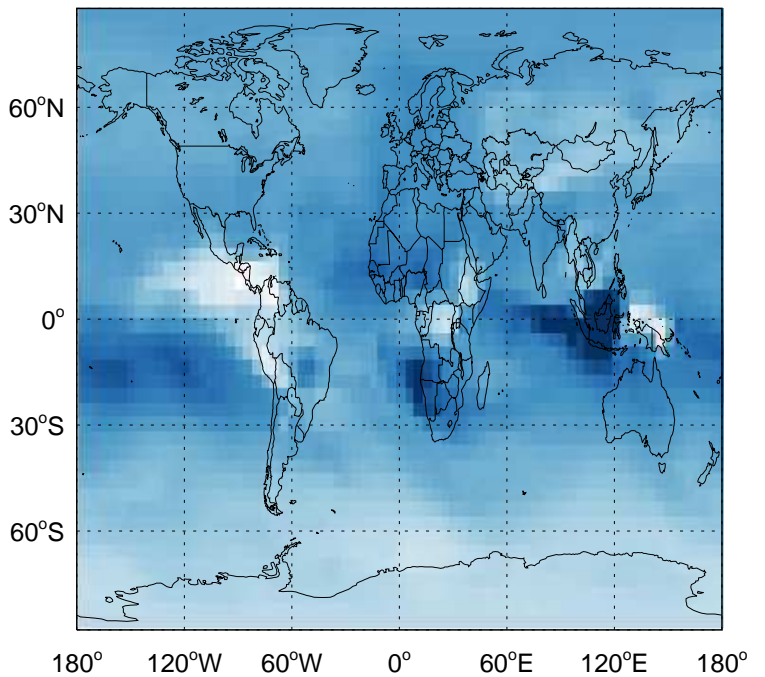
GC\_12.0.0 / v11-02f-Run1  
SOAGX / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAGX / Ratio @ Surface for Oct



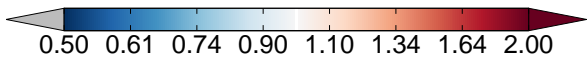
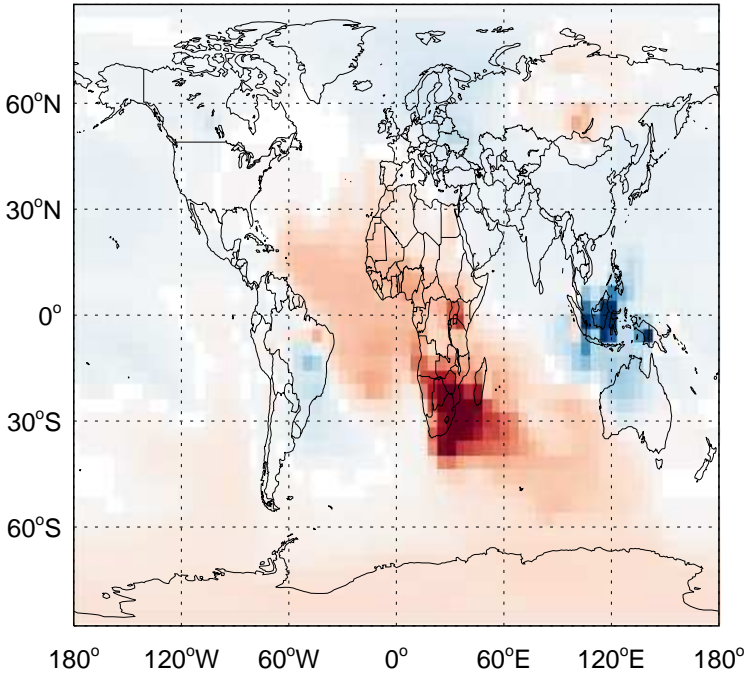
GC\_12.0.0 / v11-02e-Run1  
SOAGX / Ratio @ 500 hPa for Oct



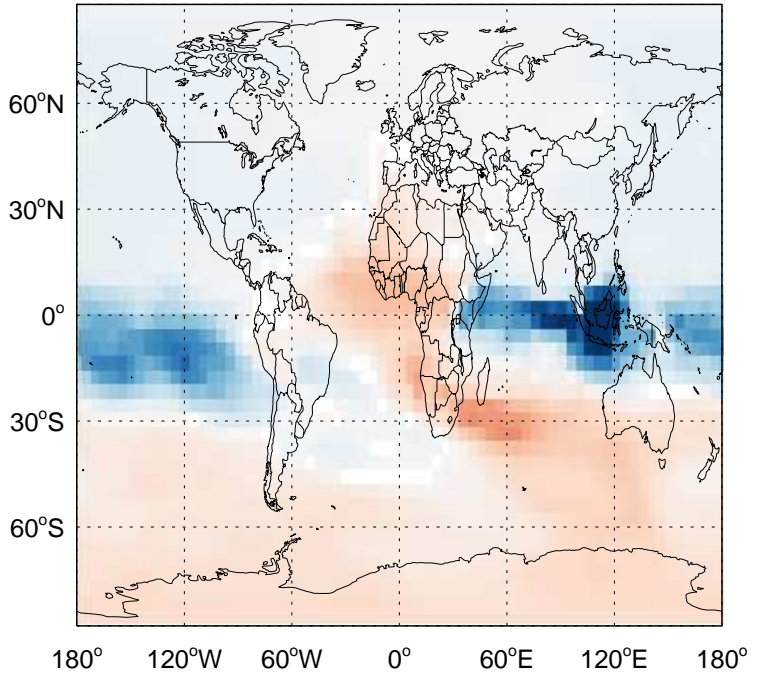


# GEOS-Chem Ratio Maps at surface and 500 hPa

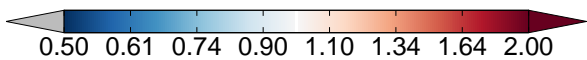
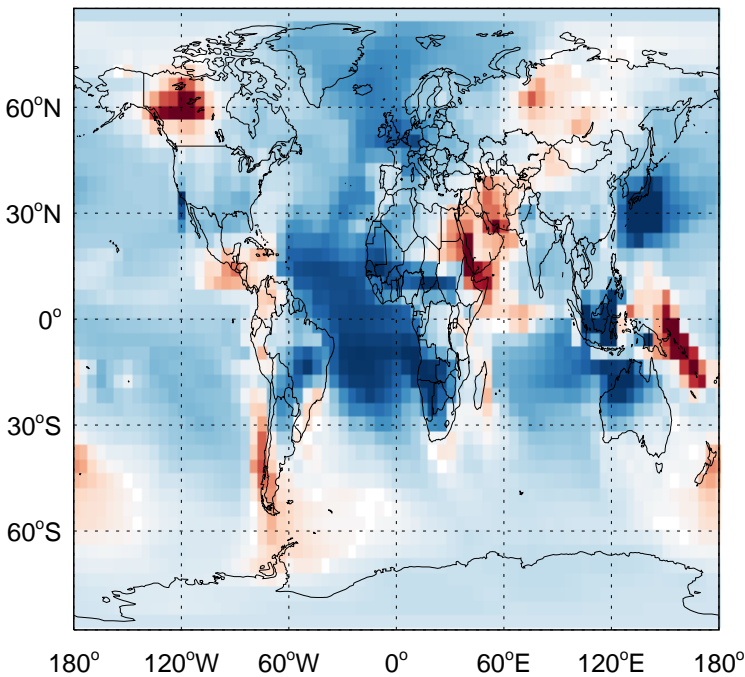
GC\_12.0.0 / v11-02f-Run1  
SOAMG / Ratio @ Surface for Oct



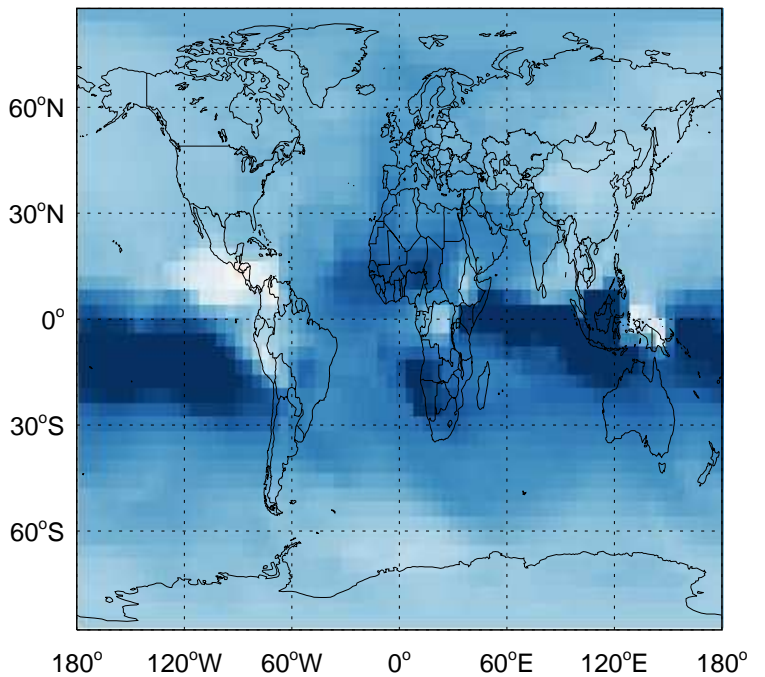
GC\_12.0.0 / v11-02f-Run1  
SOAMG/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
SOAMG / Ratio @ Surface for Oct

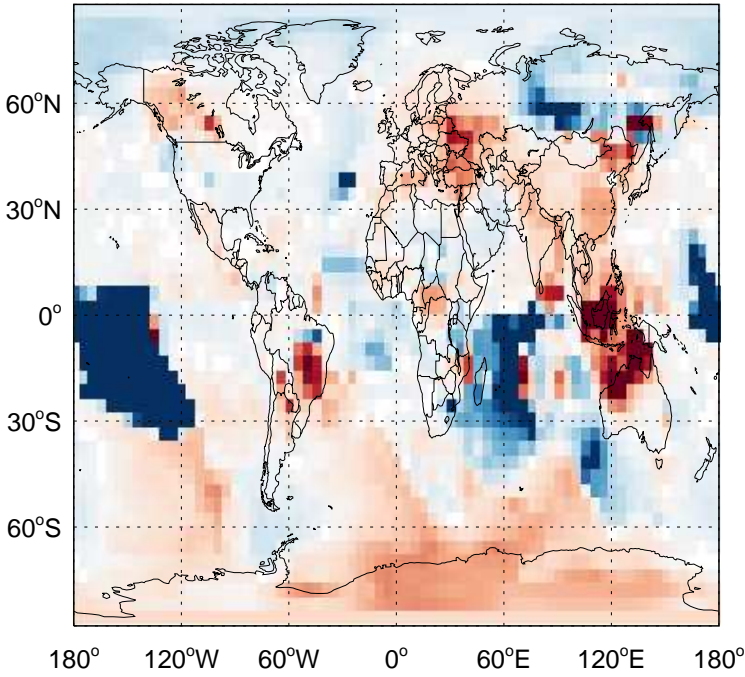


GC\_12.0.0 / v11-02e-Run1  
SOAMG/ Ratio @ 500 hPa for Oct

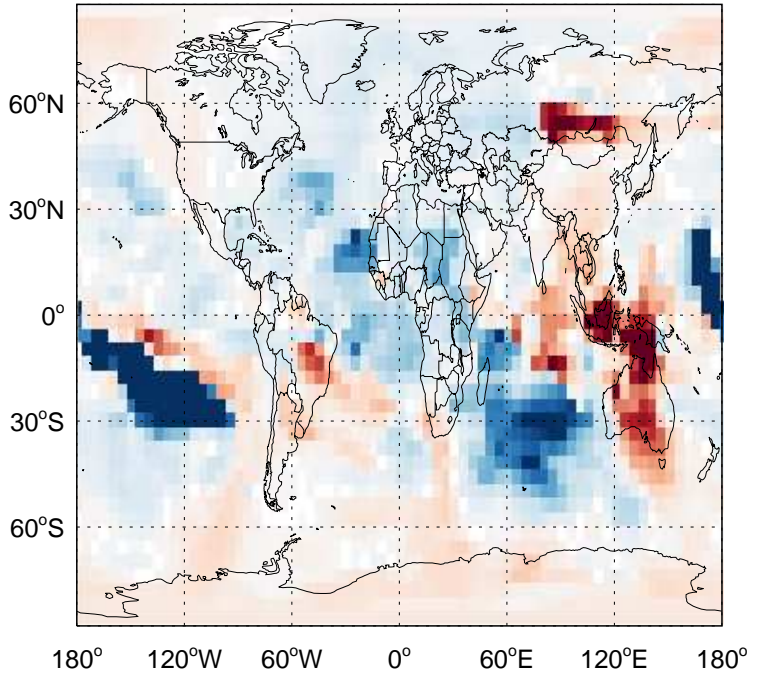


# GEOS-Chem Ratio Maps at surface and 500 hPa

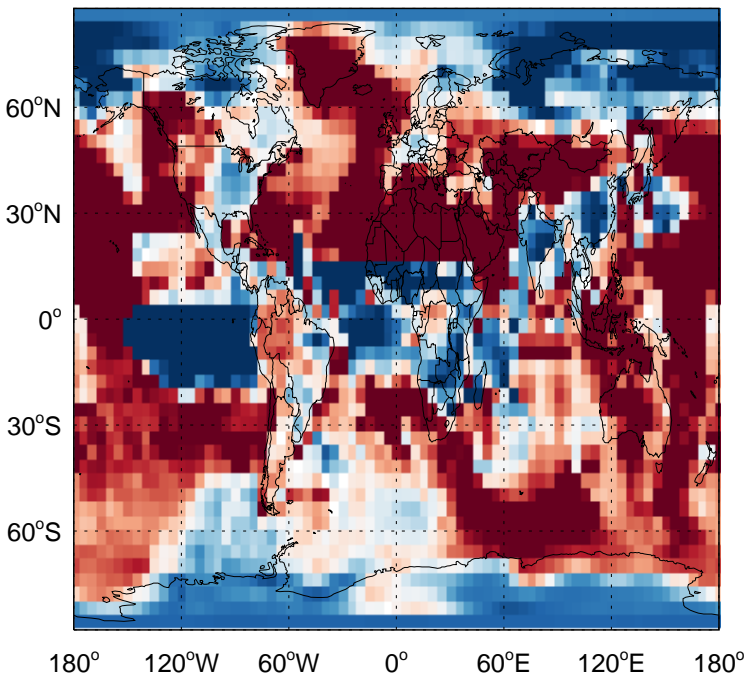
GC\_12.0.0 / v11-02f-Run1  
LVOC / Ratio @ Surface for Oct



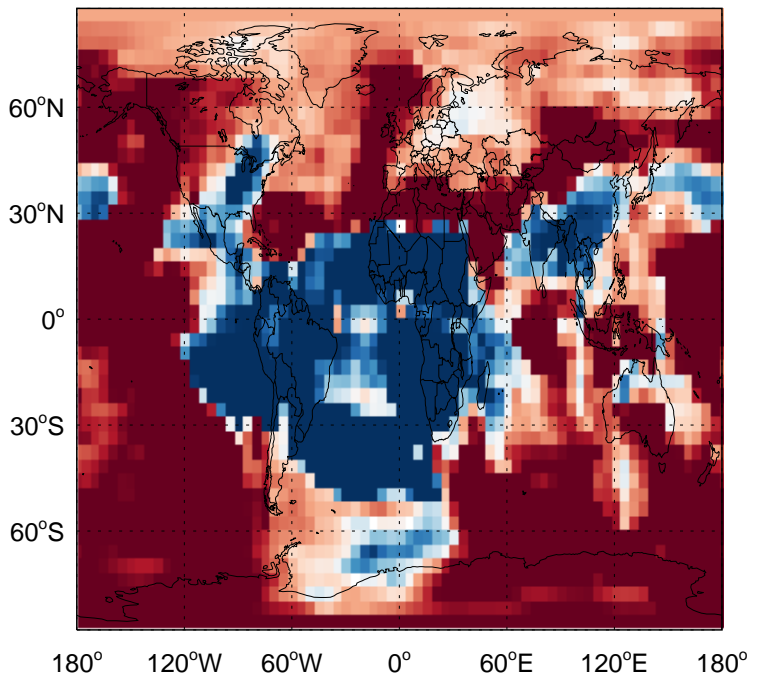
GC\_12.0.0 / v11-02f-Run1  
LVOC/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
LVOC / Ratio @ Surface for Oct

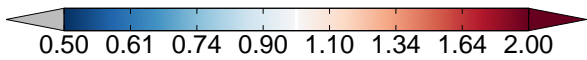
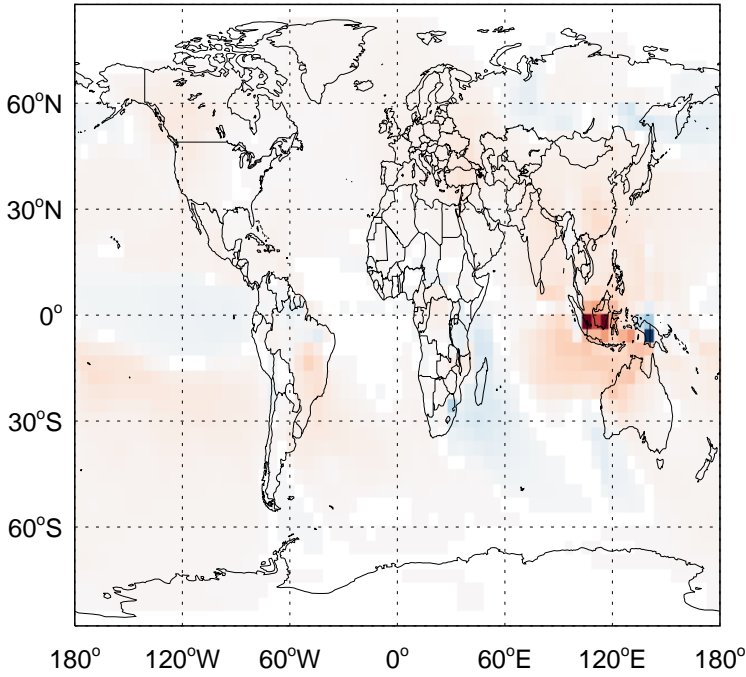


GC\_12.0.0 / v11-02e-Run1  
LVOC/ Ratio @ 500 hPa for Oct

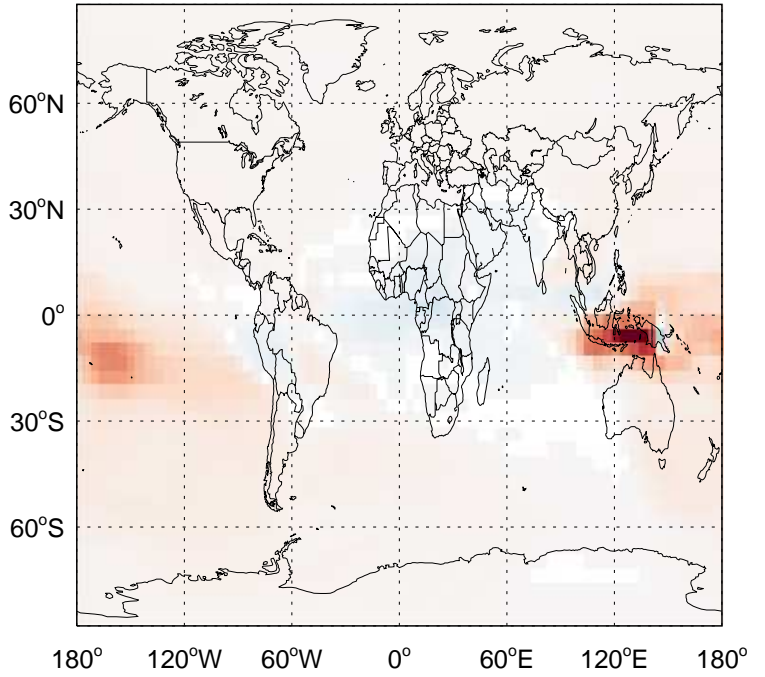


# GEOS-Chem Ratio Maps at surface and 500 hPa

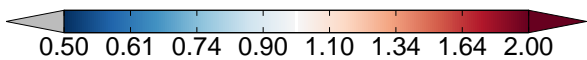
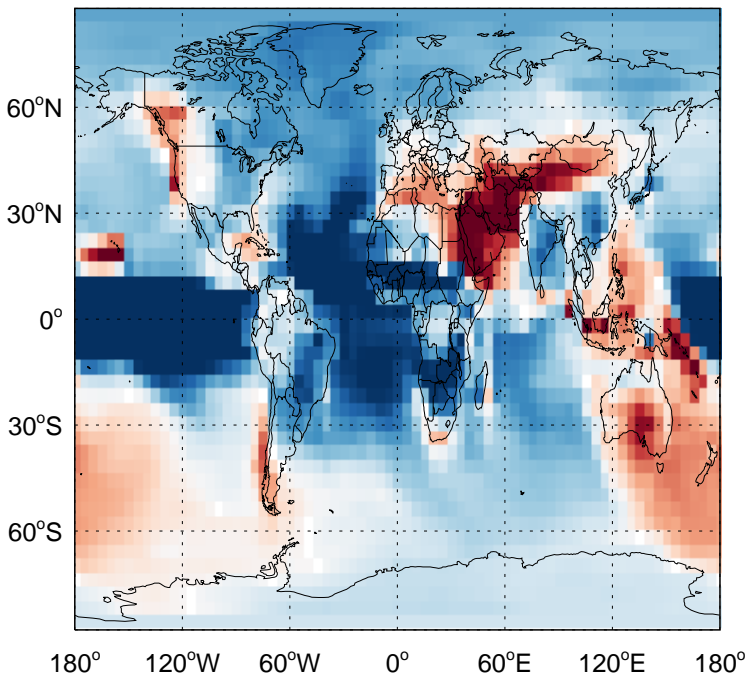
GC\_12.0.0 / v11-02f-Run1  
LVCOA / Ratio @ Surface for Oct



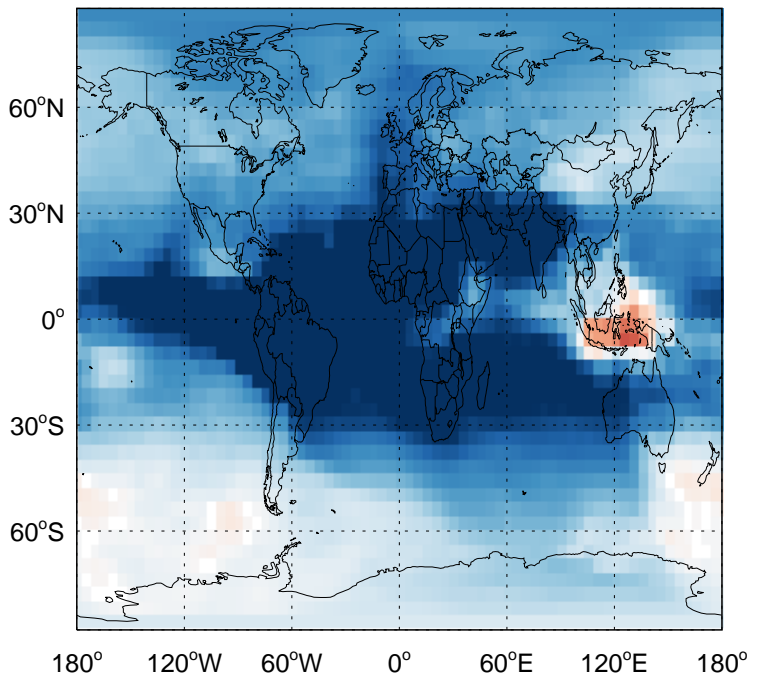
GC\_12.0.0 / v11-02f-Run1  
LVCOA / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
LVCOA / Ratio @ Surface for Oct



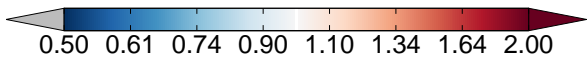
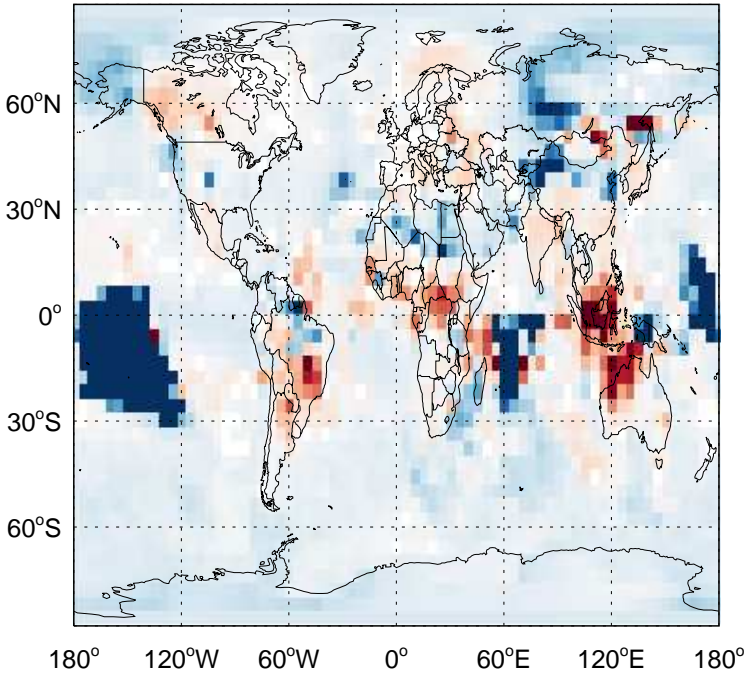
GC\_12.0.0 / v11-02e-Run1  
LVCOA / Ratio @ 500 hPa for Oct



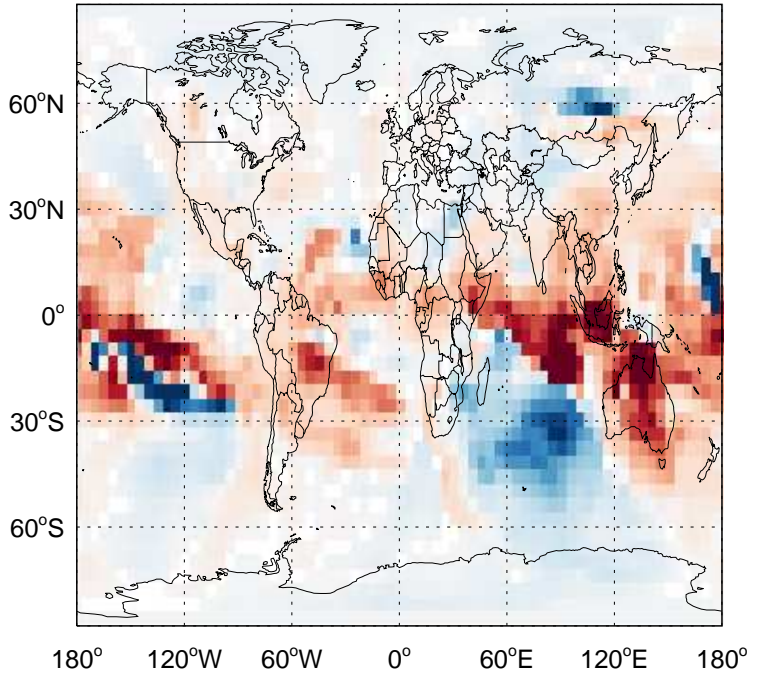


# GEOS-Chem Ratio Maps at surface and 500 hPa

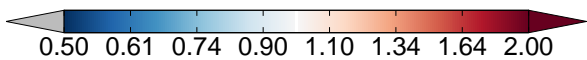
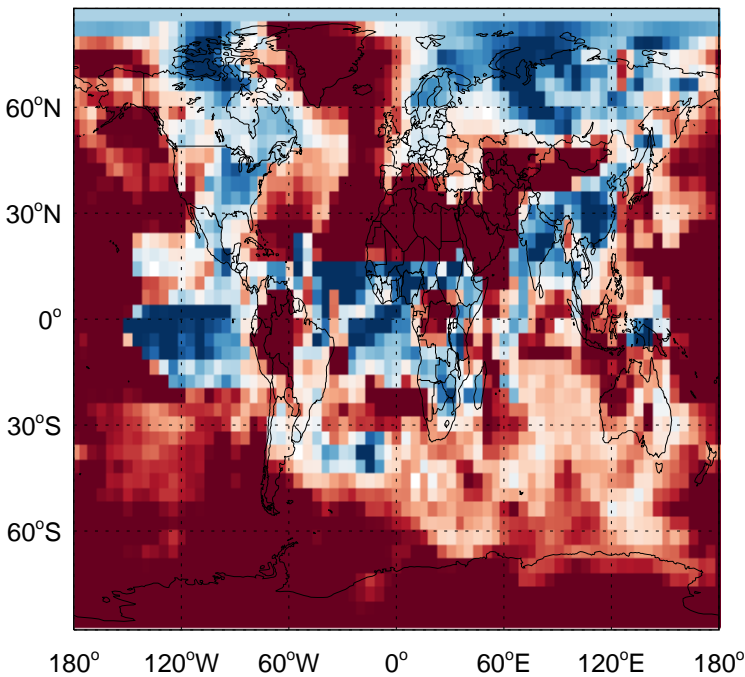
GC\_12.0.0 / v11-02f-Run1  
ISN1OG / Ratio @ Surface for Oct



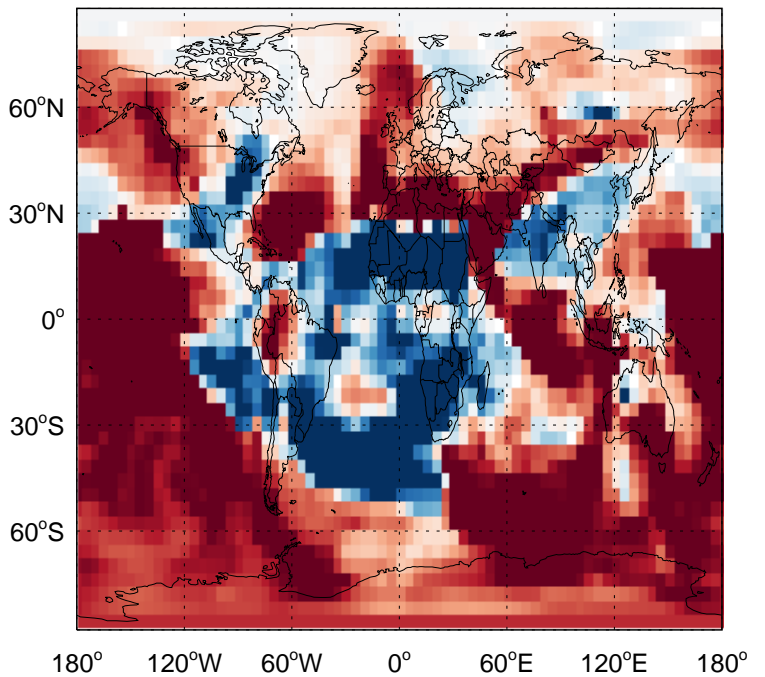
GC\_12.0.0 / v11-02f-Run1  
ISN1OG/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISN1OG / Ratio @ Surface for Oct

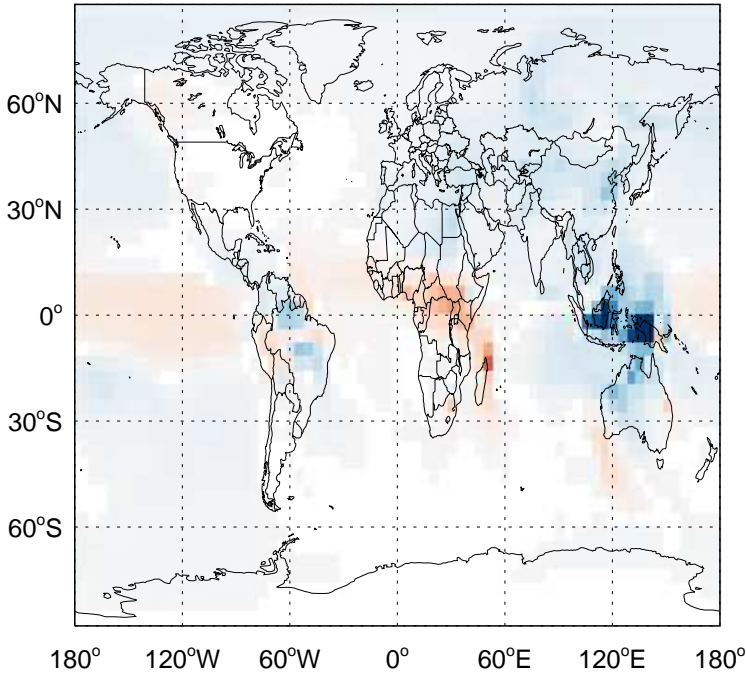


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ISN1OG/ Ratio @ 500 hPa for Oct

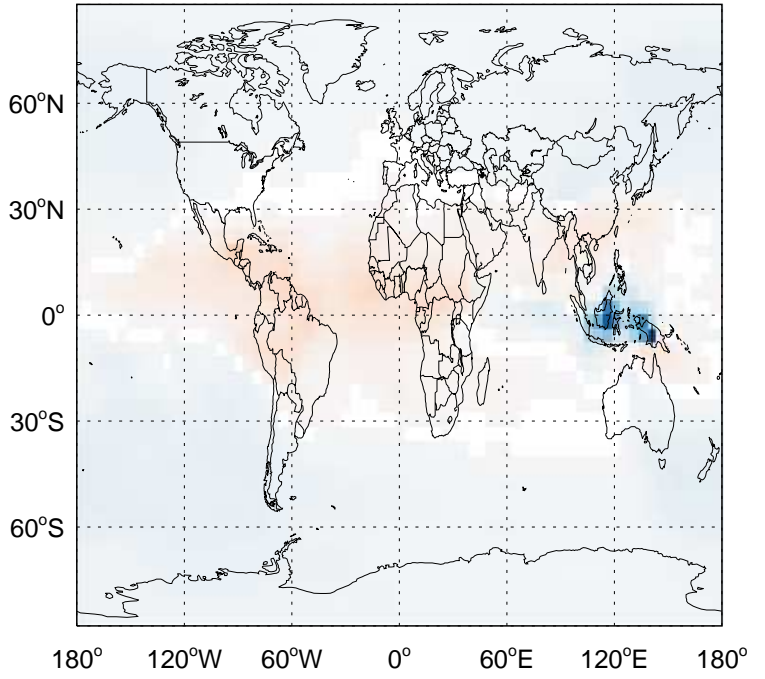


# GEOS-Chem Ratio Maps at surface and 500 hPa

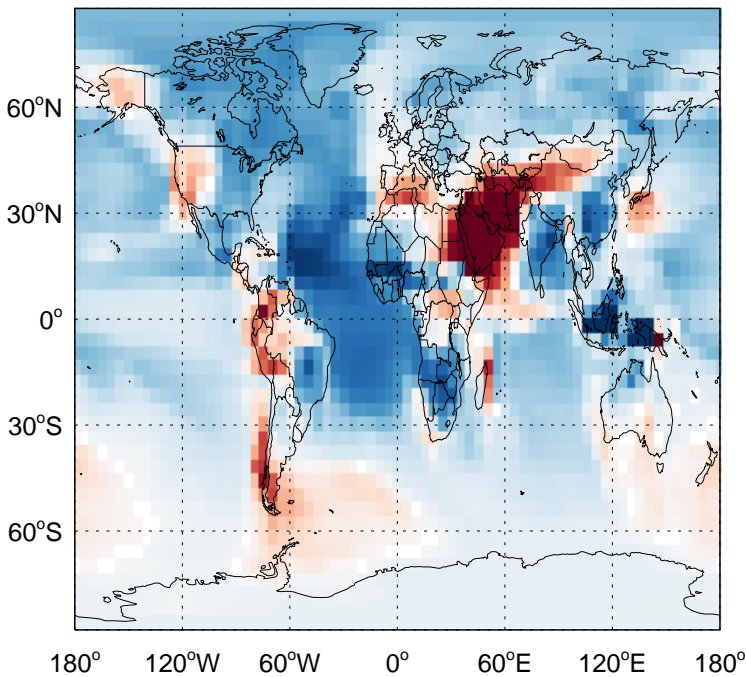
GC\_12.0.0 / v11-02f-Run1  
ISN10A / Ratio @ Surface for Oct



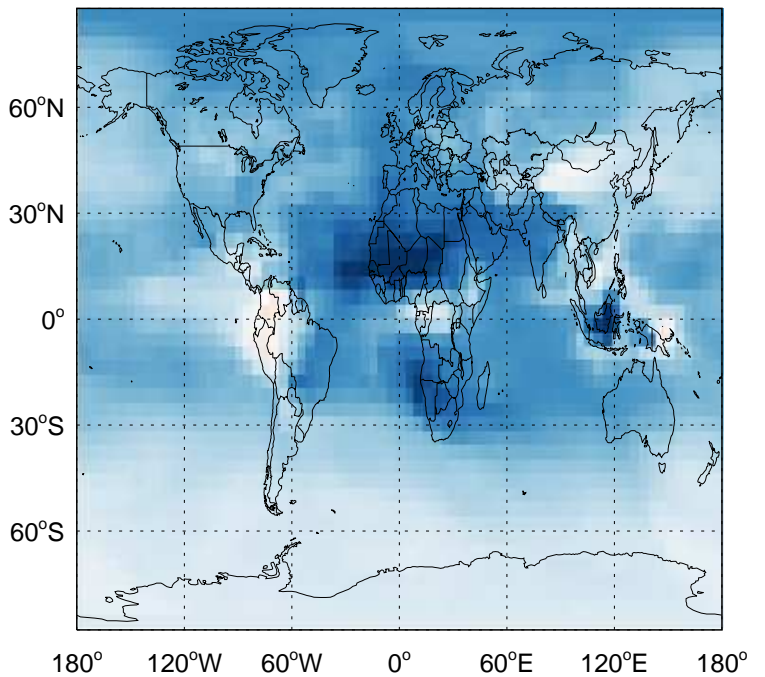
GC\_12.0.0 / v11-02f-Run1  
ISN10A / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ISN10A / Ratio @ Surface for Oct

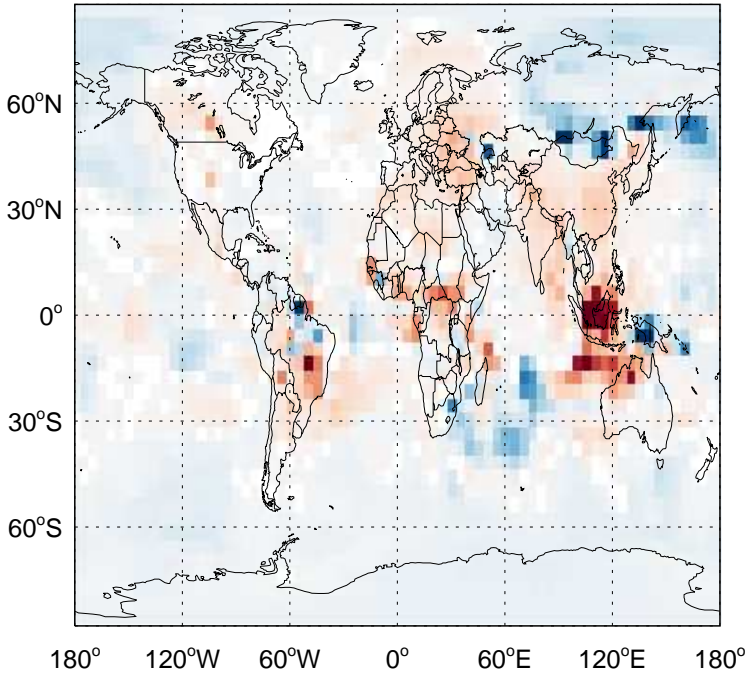


GC\_12.0.0 / v11-02e-Run1  
ISN10A / Ratio @ 500 hPa for Oct

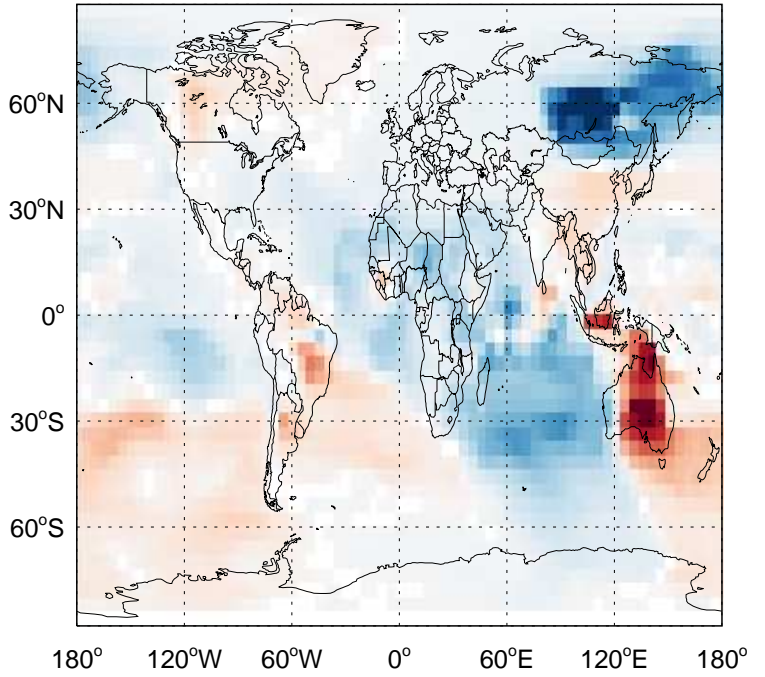


# GEOS-Chem Ratio Maps at surface and 500 hPa

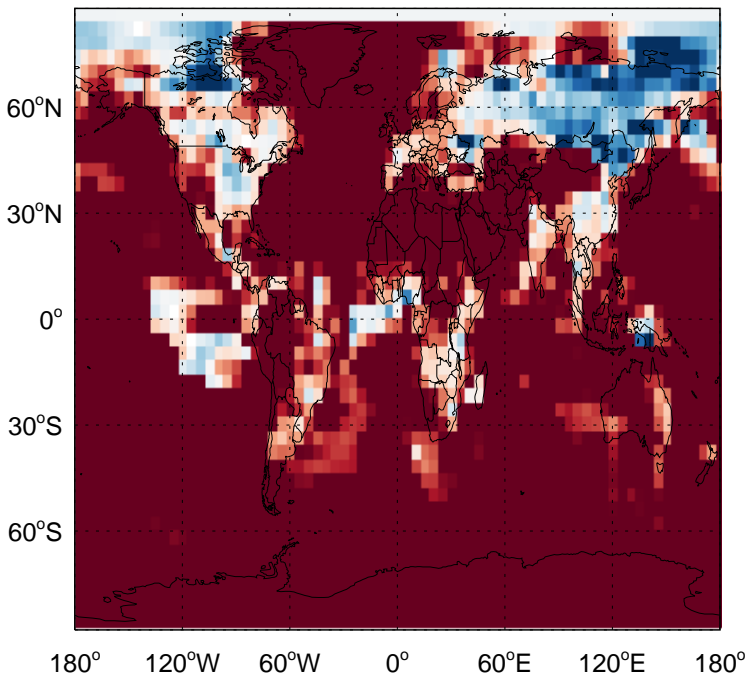
GC\_12.0.0 / v11-02f-Run1  
MONITS / Ratio @ Surface for Oct



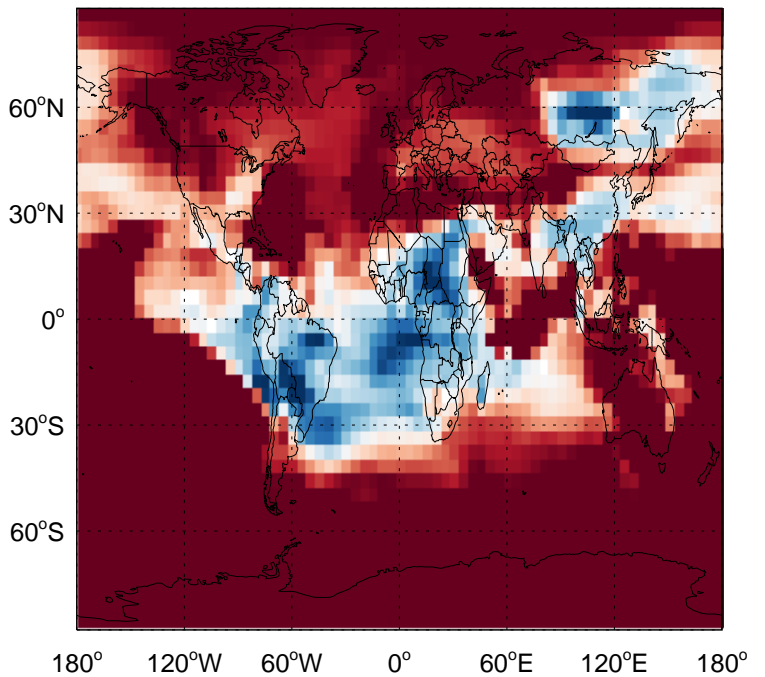
GC\_12.0.0 / v11-02f-Run1  
MONITS/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MONITS / Ratio @ Surface for Oct



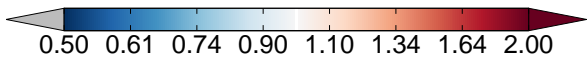
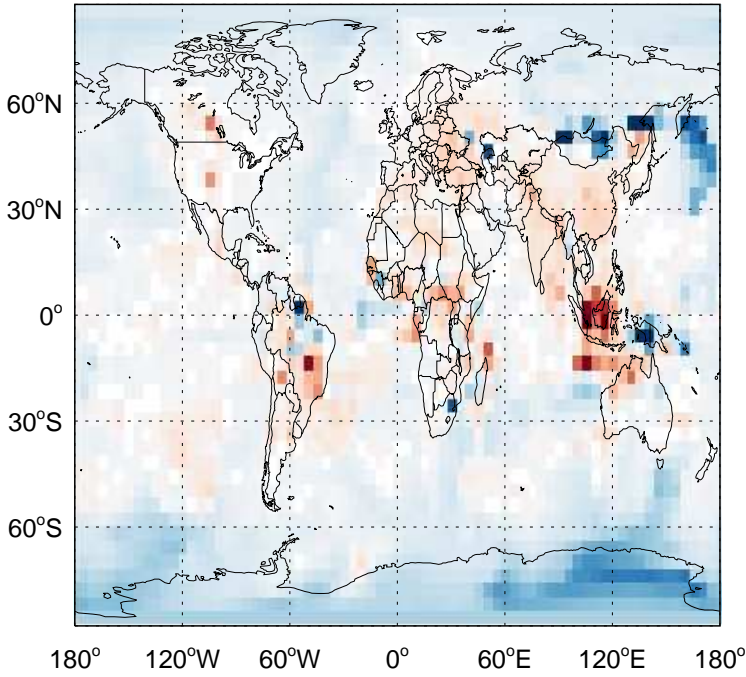
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MONITS/ Ratio @ 500 hPa for Oct



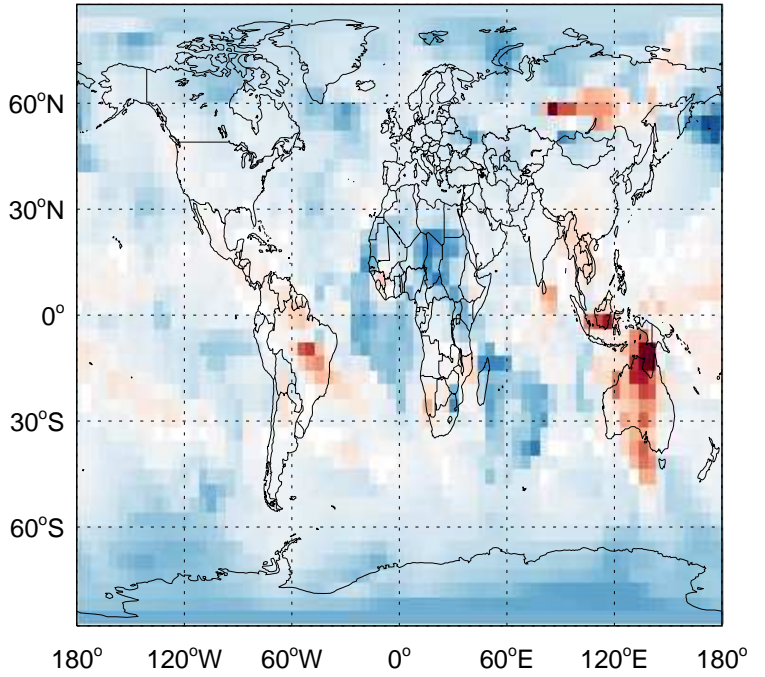


# GEOS-Chem Ratio Maps at surface and 500 hPa

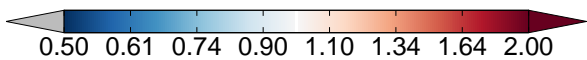
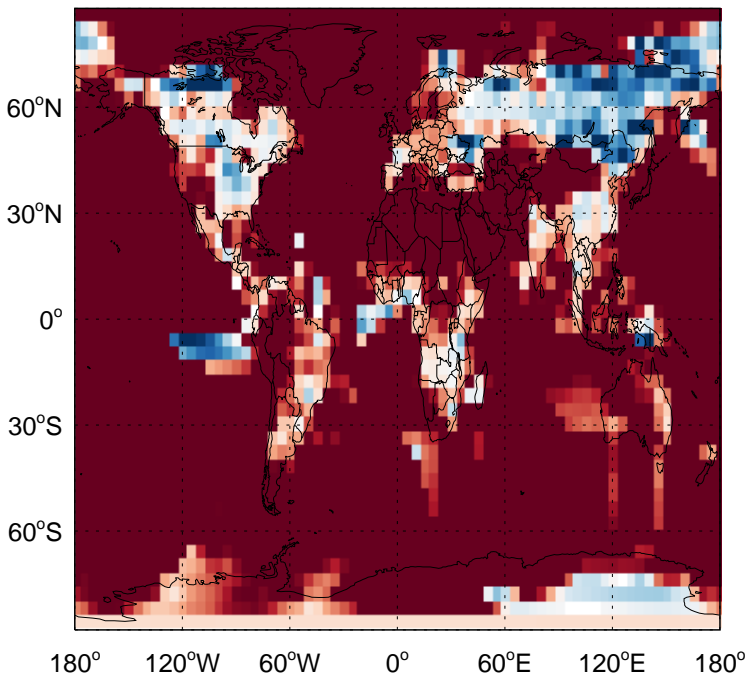
GC\_12.0.0 / v11-02f-Run1  
MONITU / Ratio @ Surface for Oct



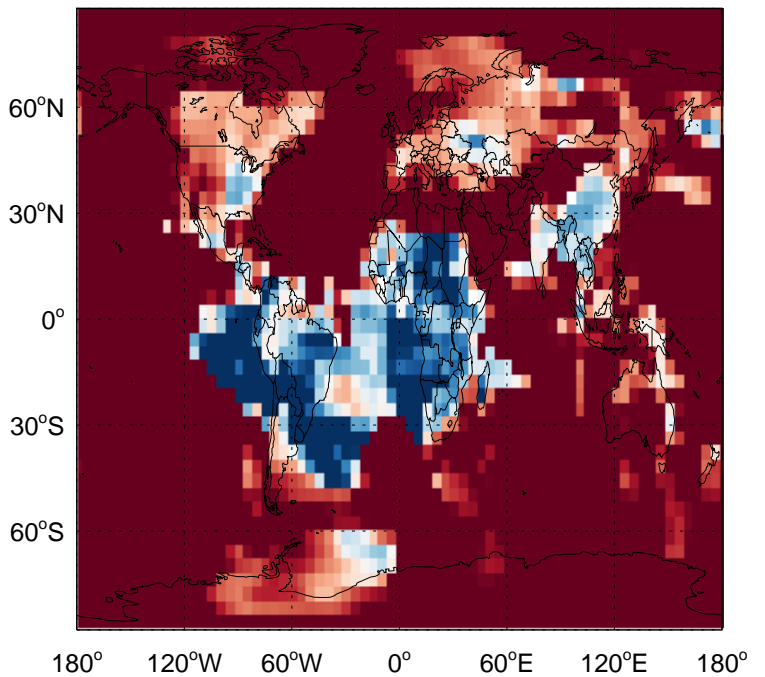
GC\_12.0.0 / v11-02f-Run1  
MONITU/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MONITU / Ratio @ Surface for Oct

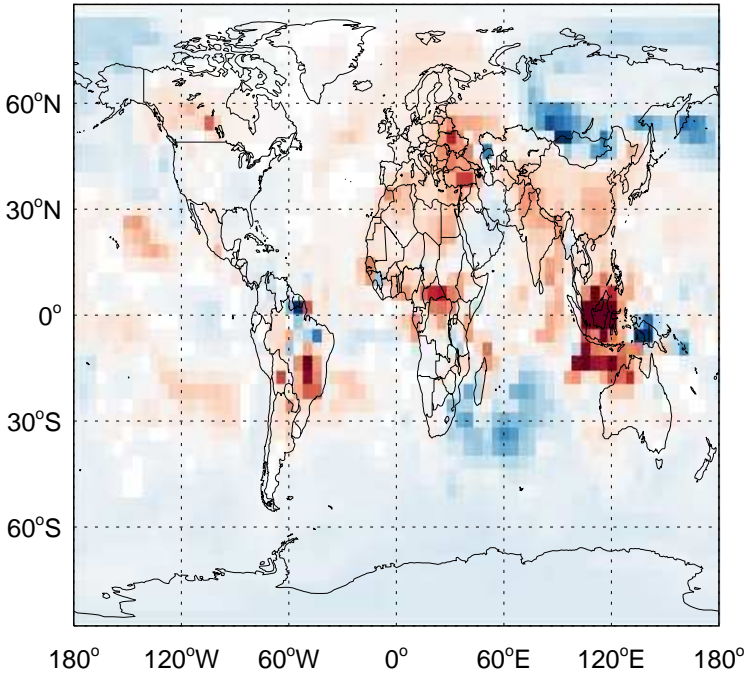


GC\_12.0.0 / v11-02e-Run1  
MONITU/ Ratio @ 500 hPa for Oct

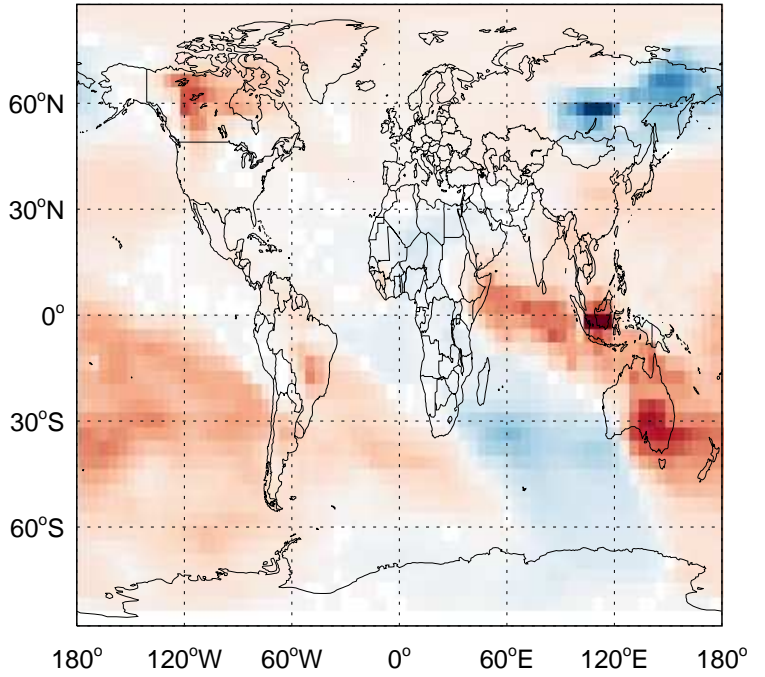


# GEOS-Chem Ratio Maps at surface and 500 hPa

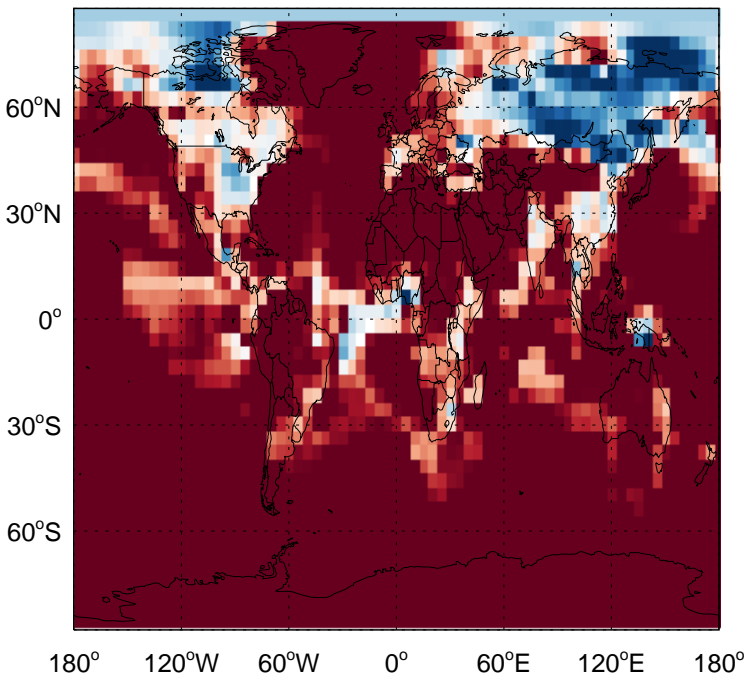
GC\_12.0.0 / v11-02f-Run1  
HONIT / Ratio @ Surface for Oct



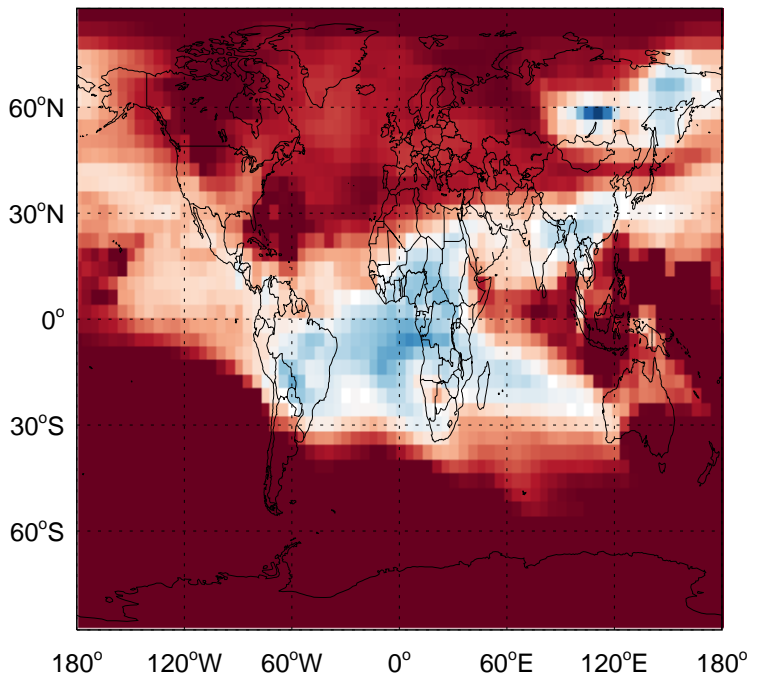
GC\_12.0.0 / v11-02f-Run1  
HONIT/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HONIT / Ratio @ Surface for Oct

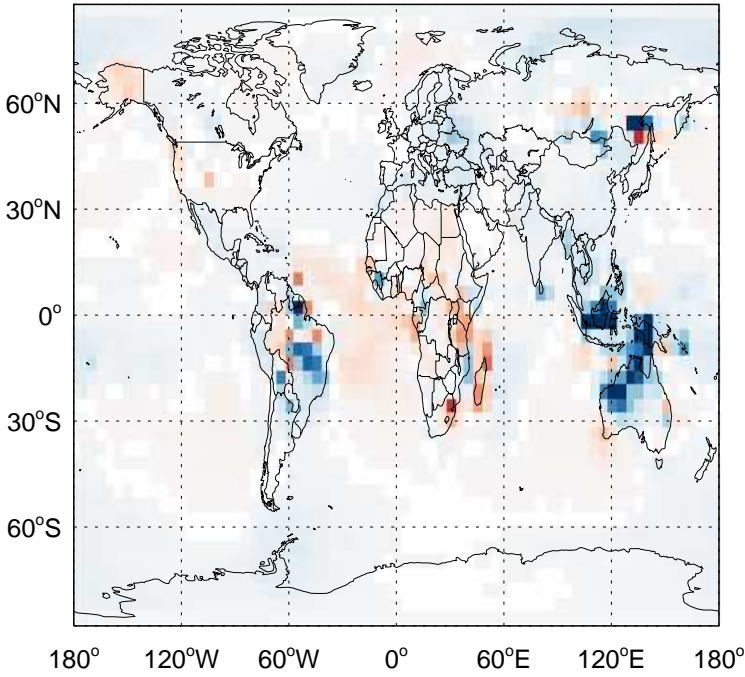


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HONIT/ Ratio @ 500 hPa for Oct

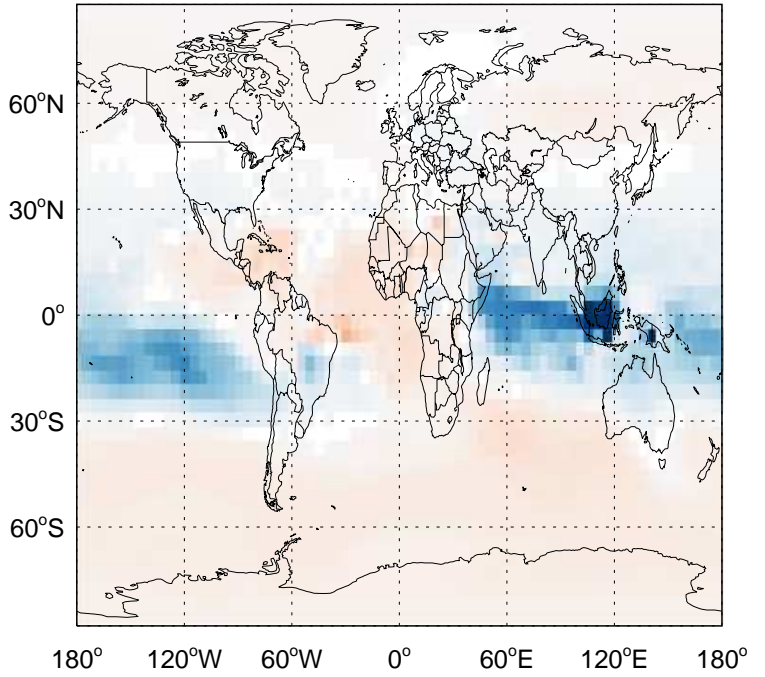


# GEOS-Chem Ratio Maps at surface and 500 hPa

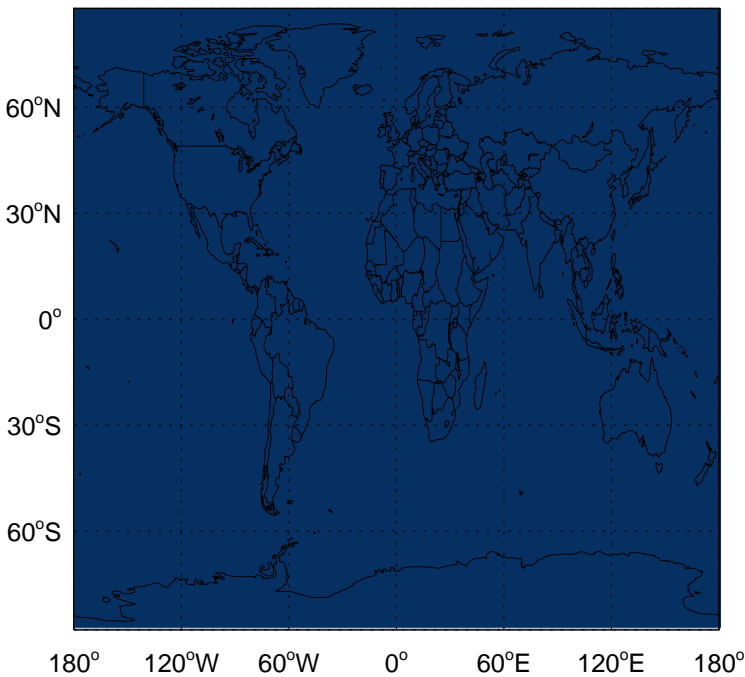
GC\_12.0.0 / v11-02f-Run1  
IONITA / Ratio @ Surface for Oct



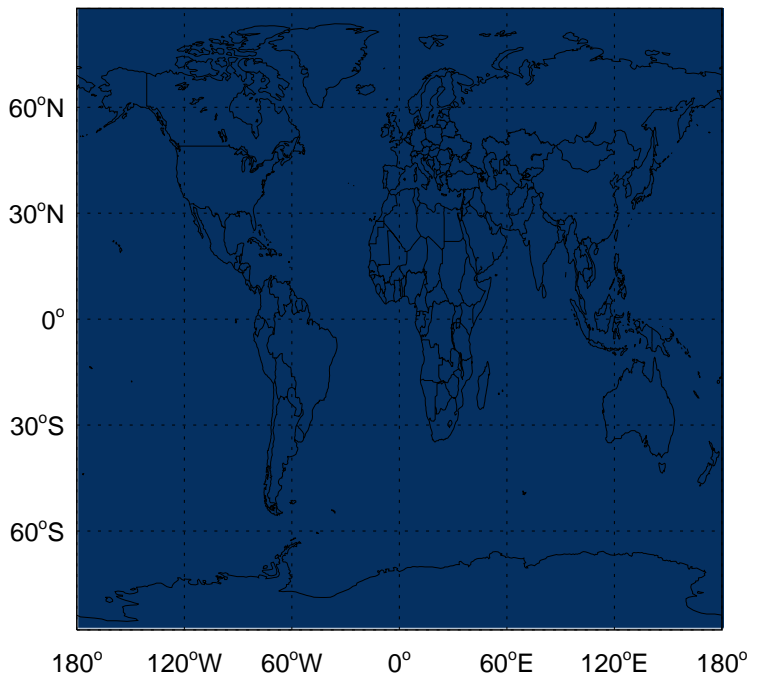
GC\_12.0.0 / v11-02f-Run1  
IONITA/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IONITA / Ratio @ Surface for Oct



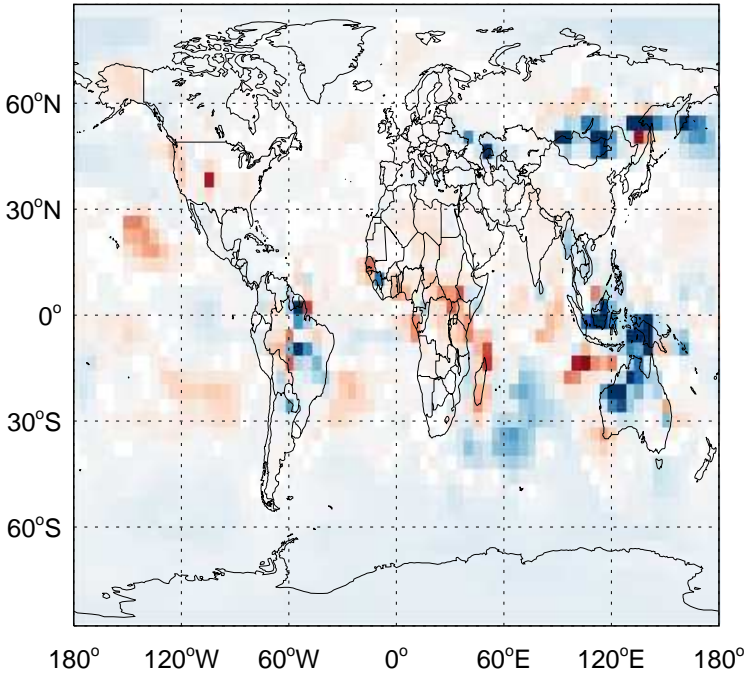
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IONITA/ Ratio @ 500 hPa for Oct



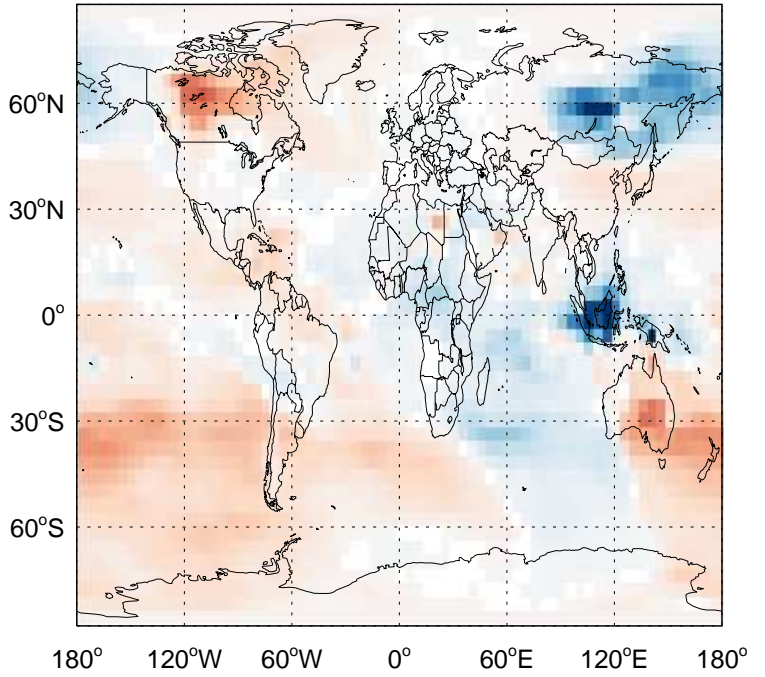


# GEOS-Chem Ratio Maps at surface and 500 hPa

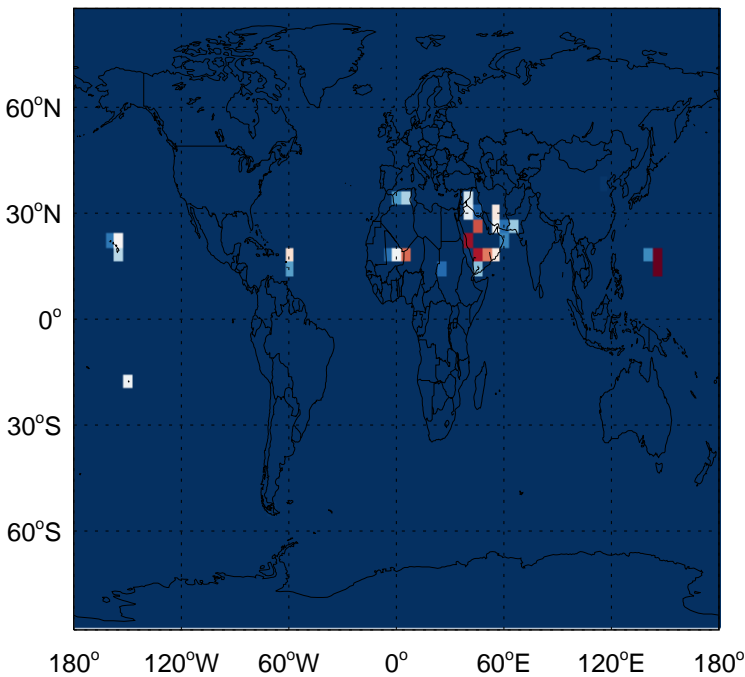
GC\_12.0.0 / v11-02f-Run1  
MONITA / Ratio @ Surface for Oct



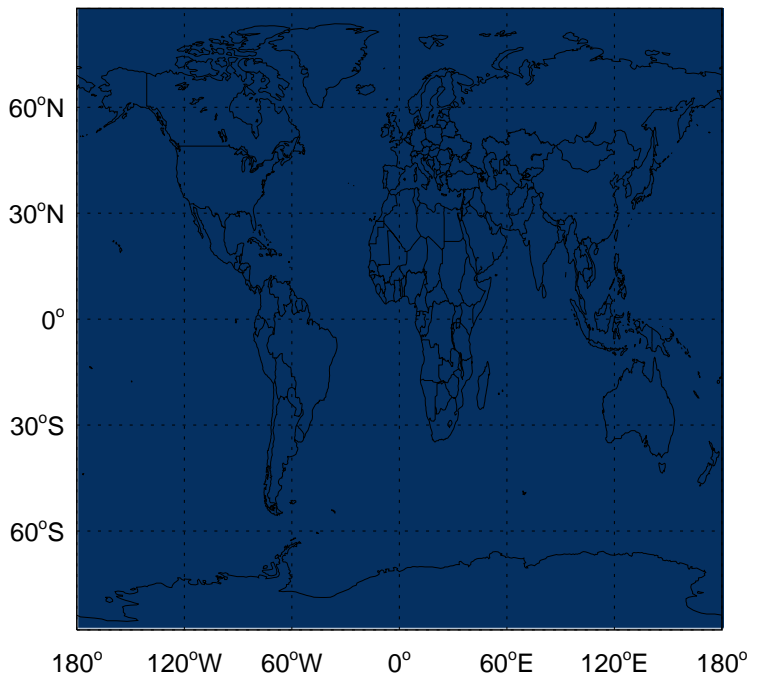
GC\_12.0.0 / v11-02f-Run1  
MONITA/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
MONITA / Ratio @ Surface for Oct

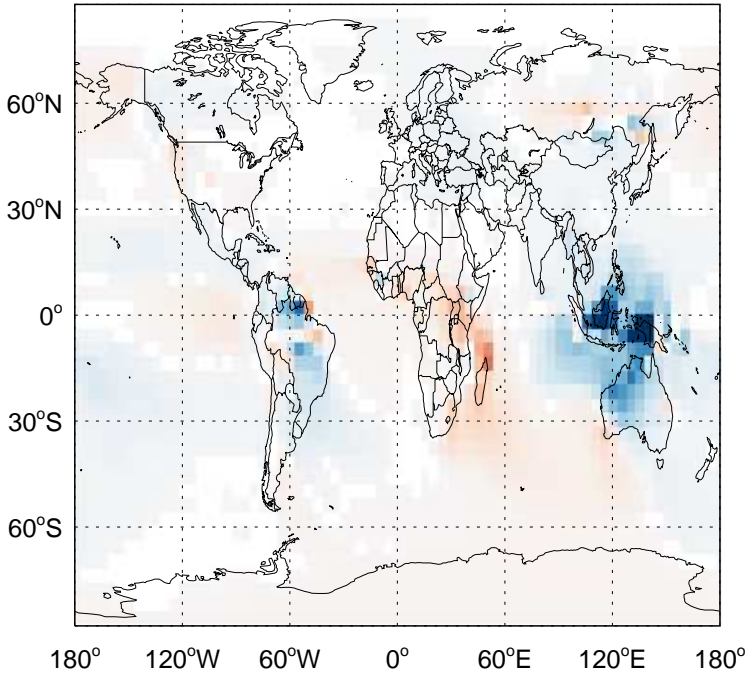


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MONITA/ Ratio @ 500 hPa for Oct

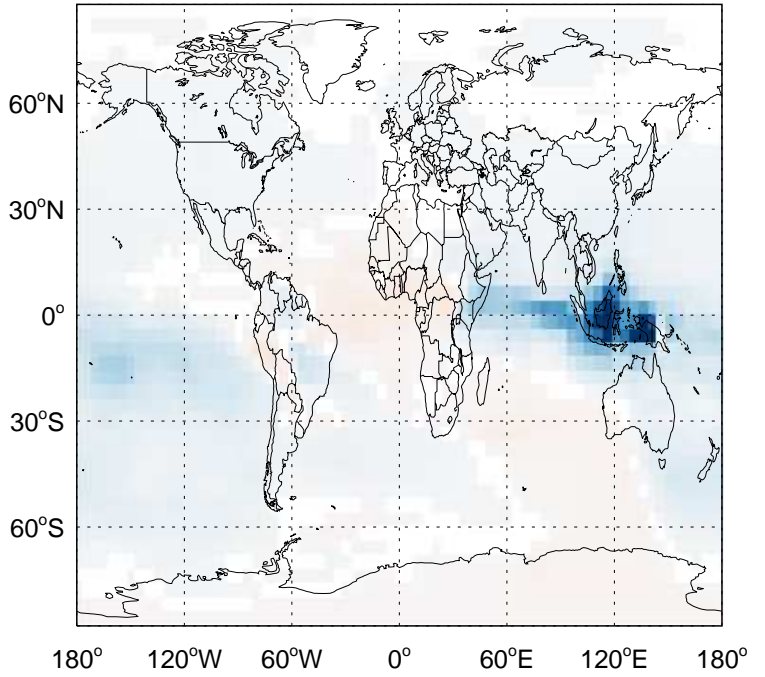


# GEOS-Chem Ratio Maps at surface and 500 hPa

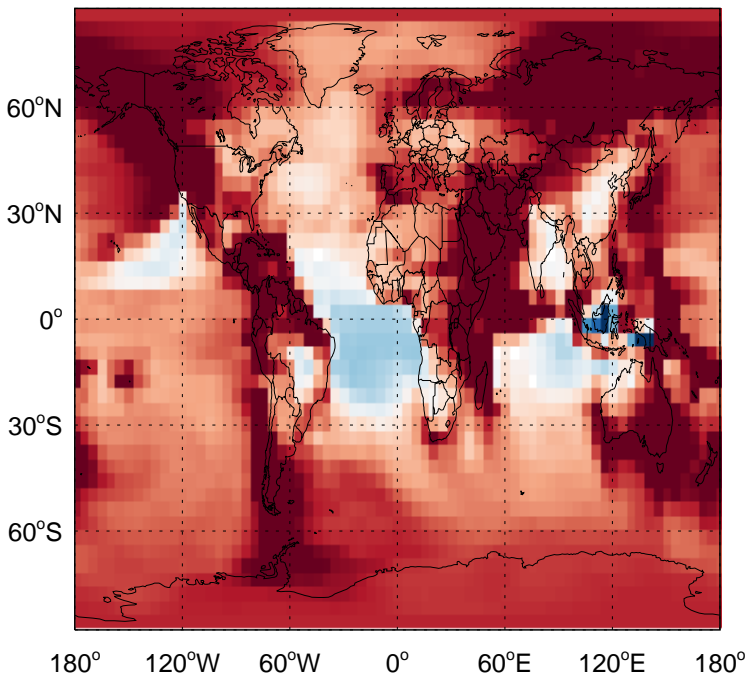
GC\_12.0.0 / v11-02f-Run1  
INDIOL / Ratio @ Surface for Oct



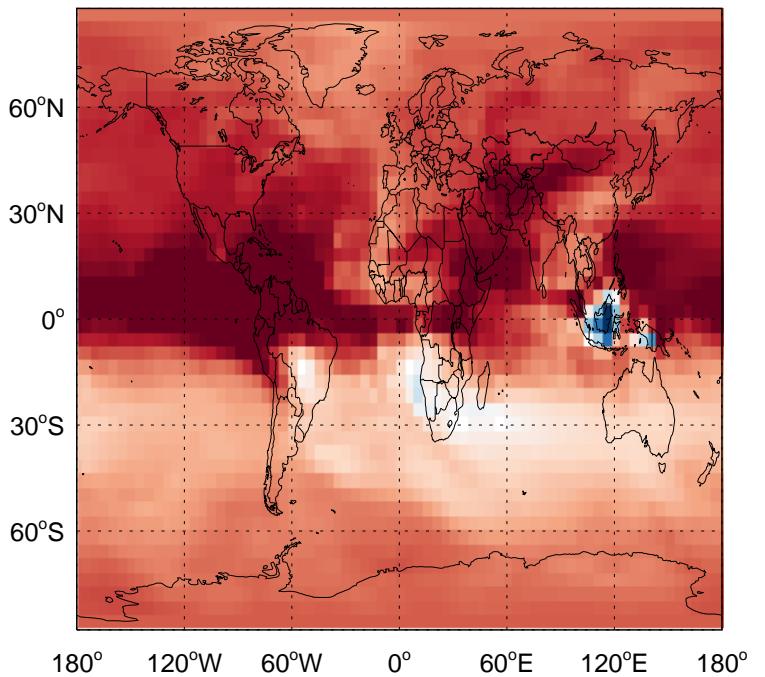
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INDIOL/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
INDIOL / Ratio @ Surface for Oct

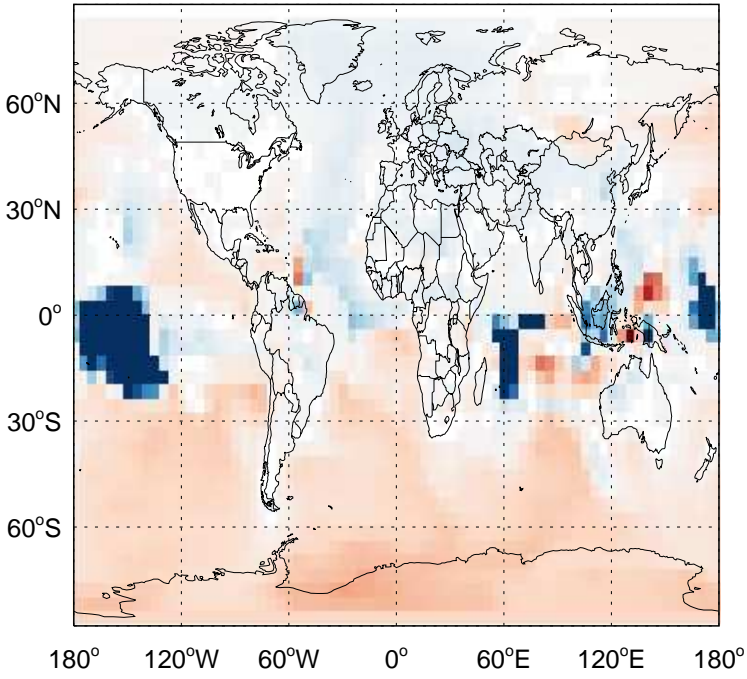


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INDIOL/ Ratio @ 500 hPa for Oct

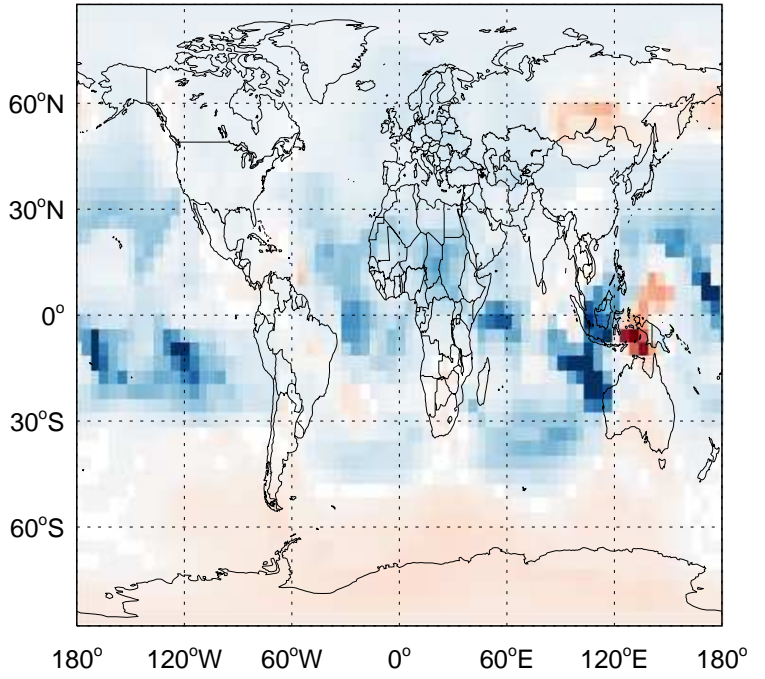


# GEOS-Chem Ratio Maps at surface and 500 hPa

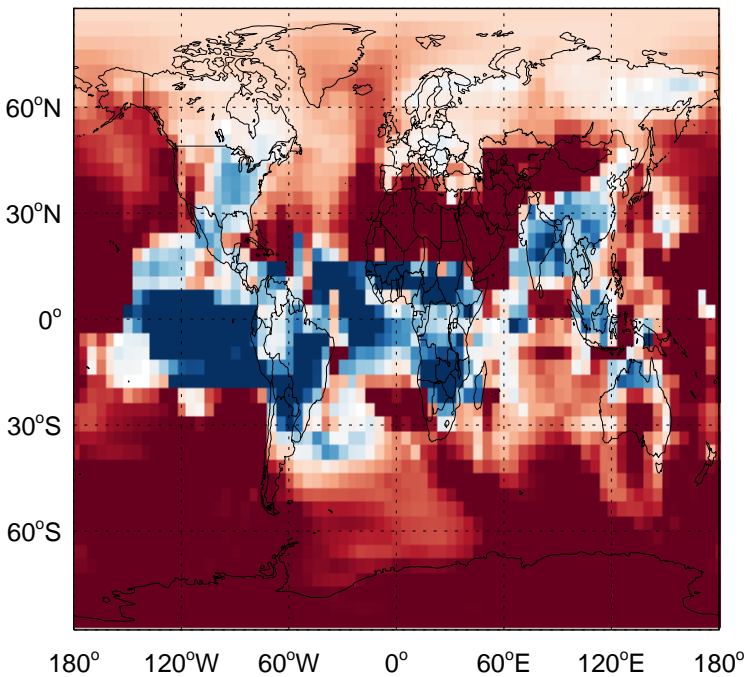
GC\_12.0.0 / v11-02f-Run1  
IPMN / Ratio @ Surface for Oct



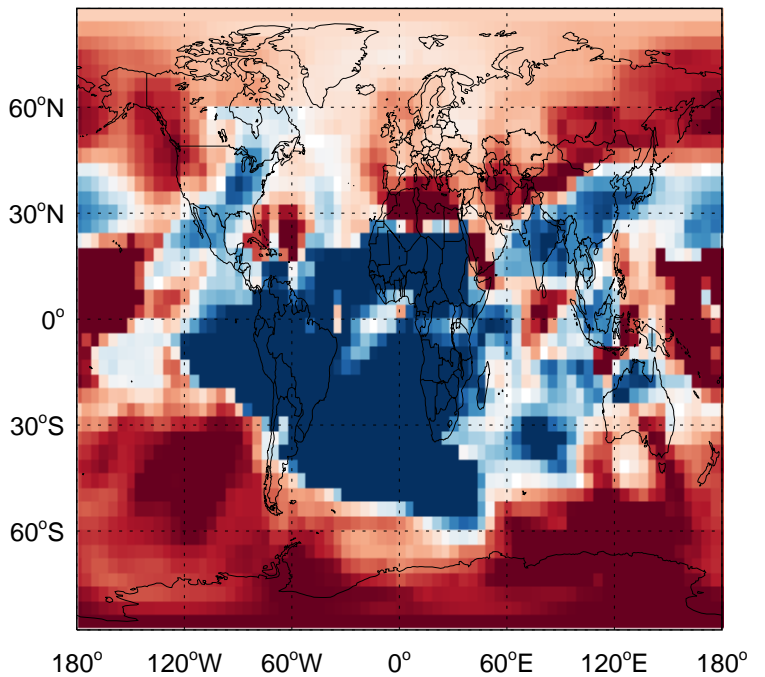
GC\_12.0.0 / v11-02f-Run1  
IPMN/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
IPMN / Ratio @ Surface for Oct



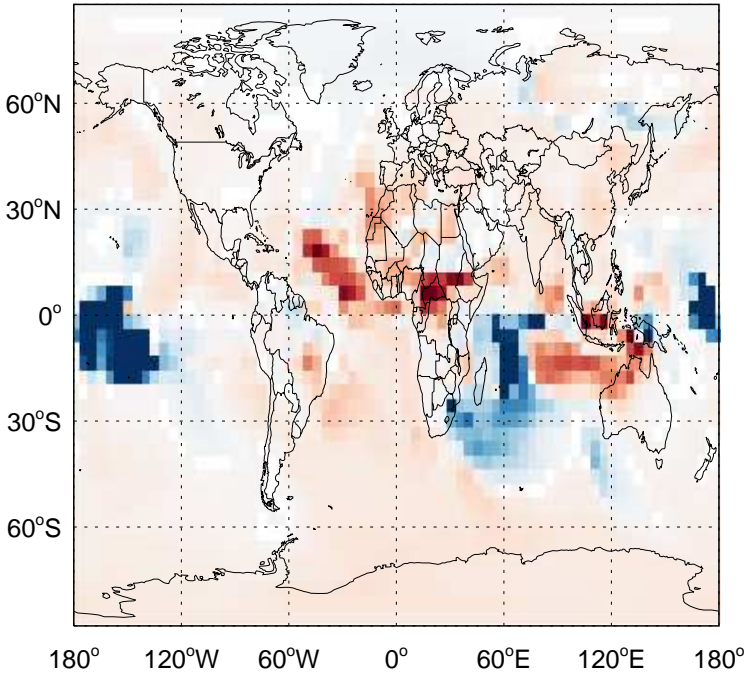
GC\_12.0.0 / v11-02e-Run1  
IPMN/ Ratio @ 500 hPa for Oct



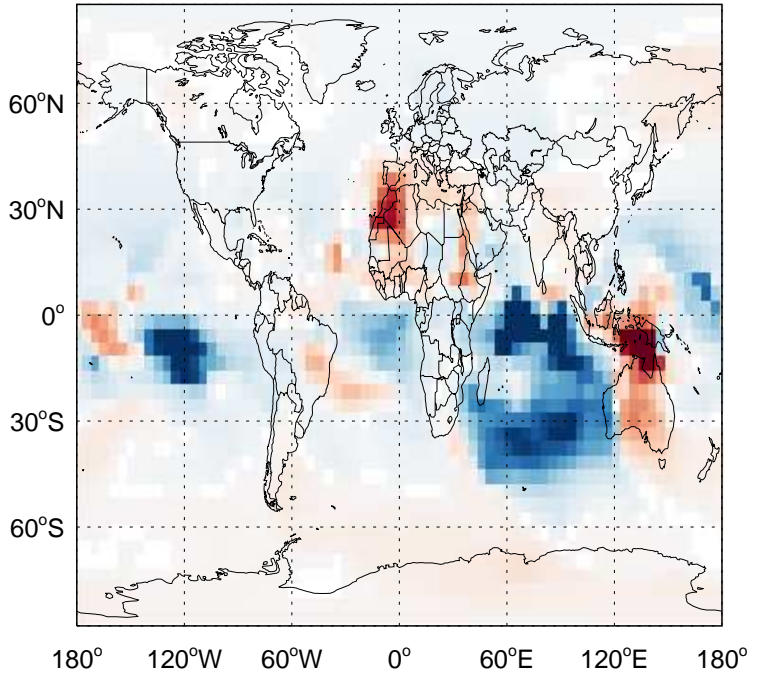


# GEOS-Chem Ratio Maps at surface and 500 hPa

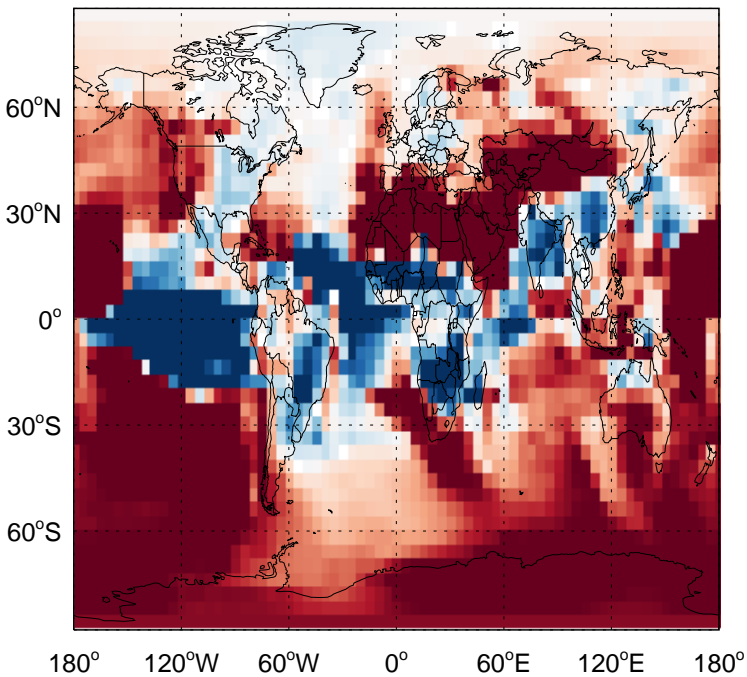
GC\_12.0.0 / v11-02f-Run1  
HC187 / Ratio @ Surface for Oct



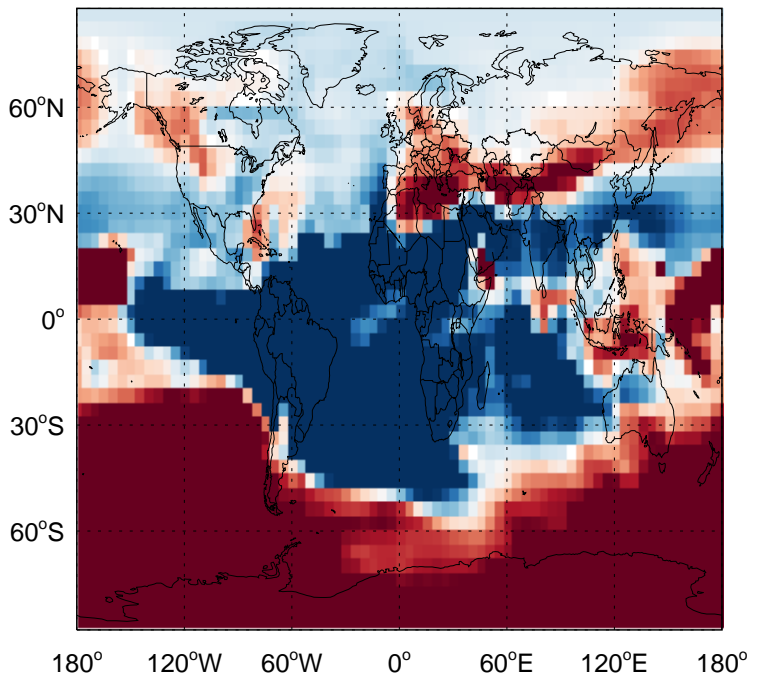
GC\_12.0.0 / v11-02f-Run1  
HC187/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HC187 / Ratio @ Surface for Oct

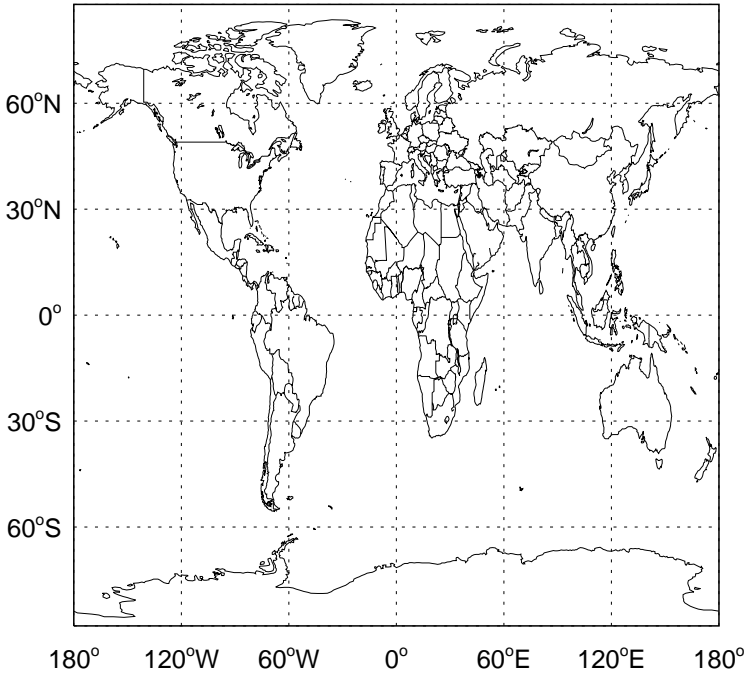


GC\_12.0.0 / v11-02e-Run1  
HC187/ Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

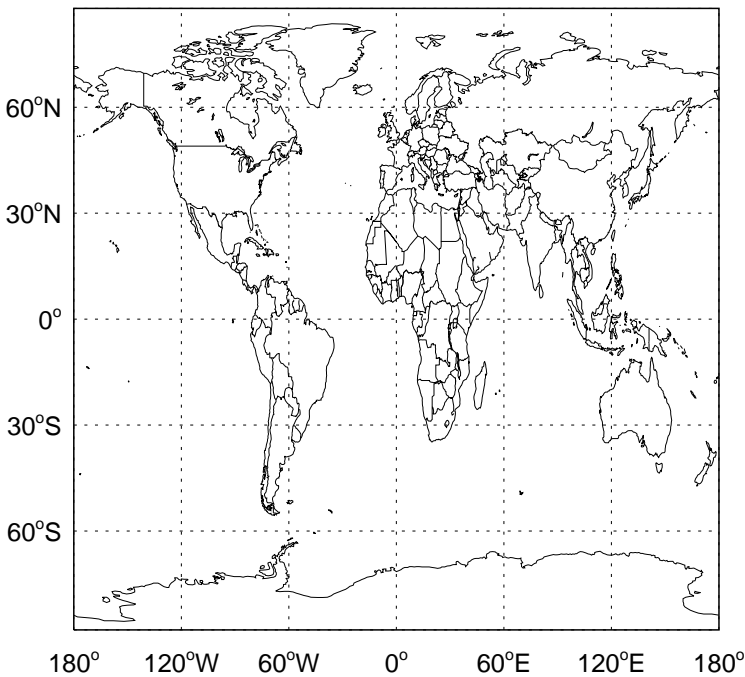
GC\_12.0.0 / v11-02f-Run1  
N2O / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
N2O/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
N2O / Ratio @ Surface for Oct

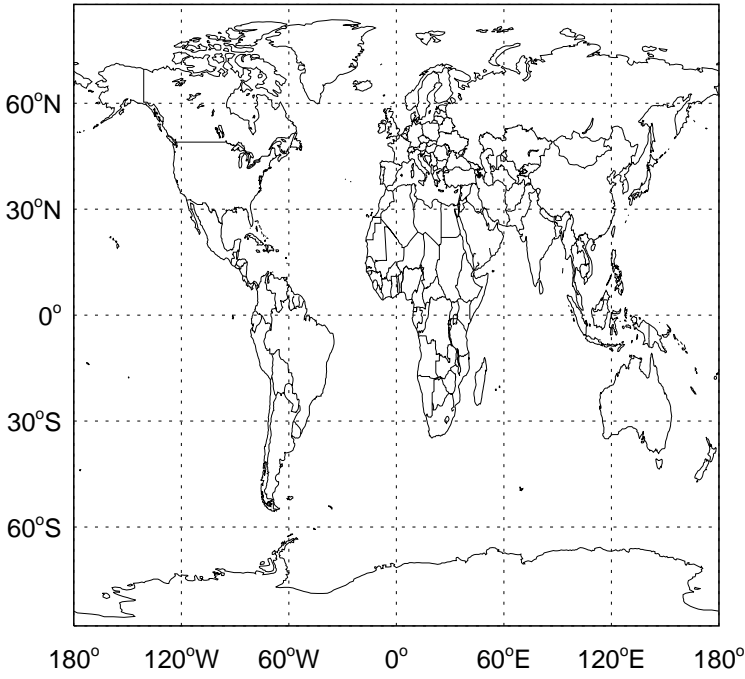


GC\_12.0.0 / v11-02e-Run1  
N2O/ Ratio @ 500 hPa for Oct

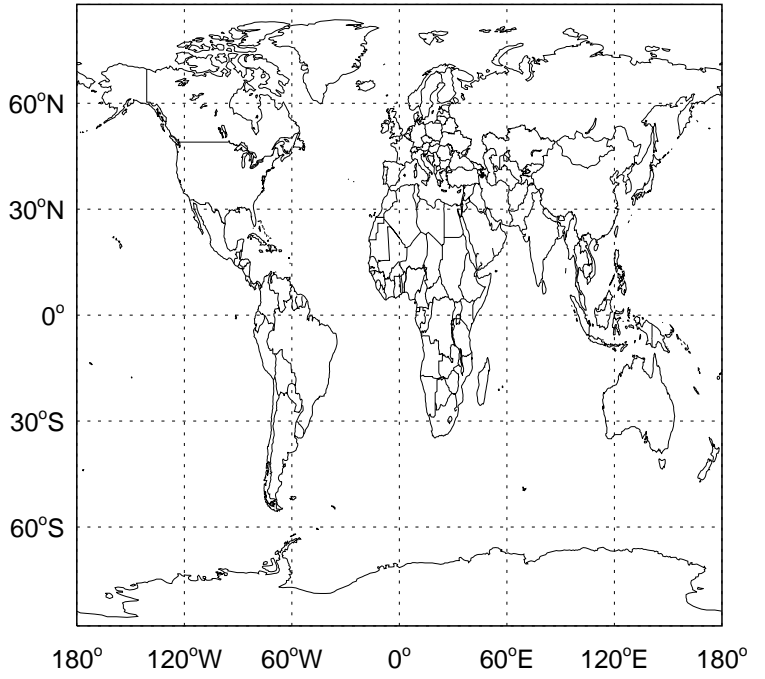


# GEOS-Chem Ratio Maps at surface and 500 hPa

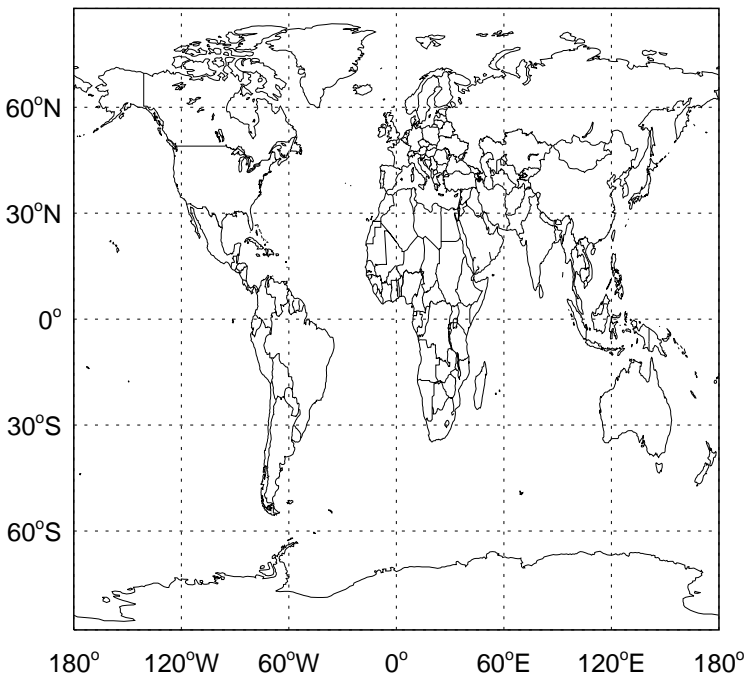
GC\_12.0.0 / v11-02f-Run1  
OCS / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
OCS/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
OCS / Ratio @ Surface for Oct



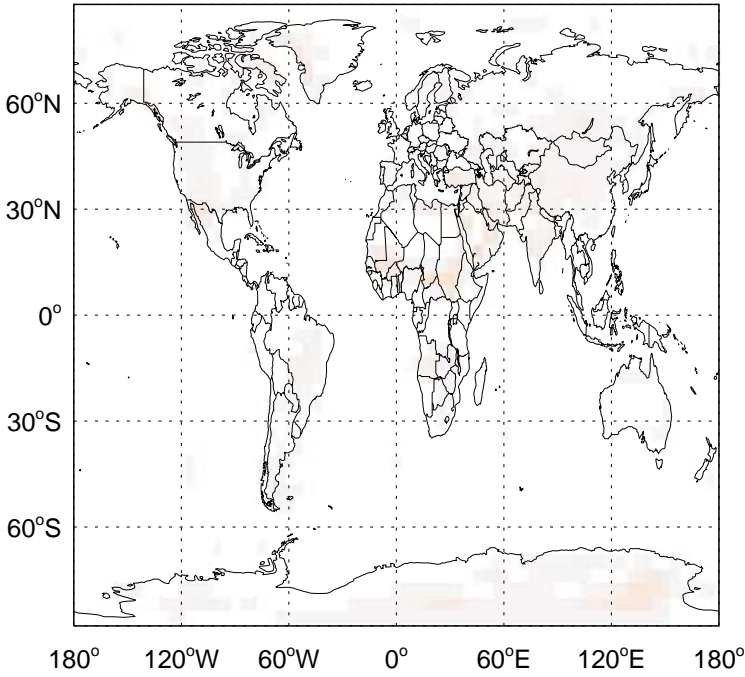
GC\_12.0.0 / v11-02e-Run1  
OCS/ Ratio @ 500 hPa for Oct



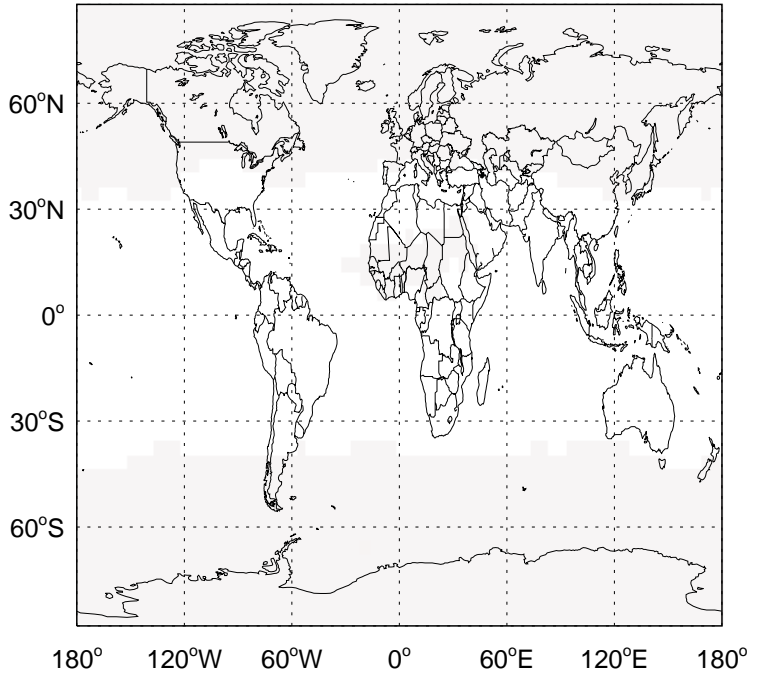


# GEOS-Chem Ratio Maps at surface and 500 hPa

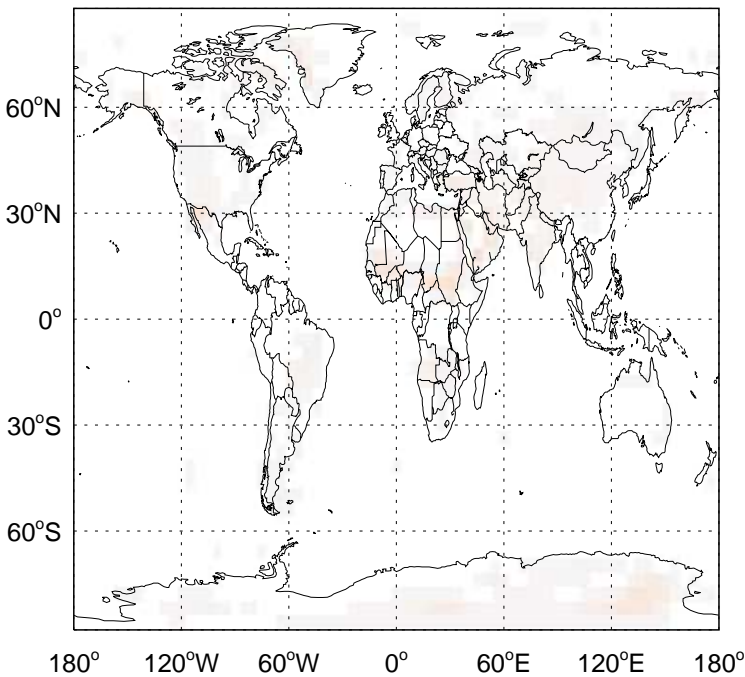
GC\_12.0.0 / v11-02f-Run1  
CH4 / Ratio @ Surface for Oct



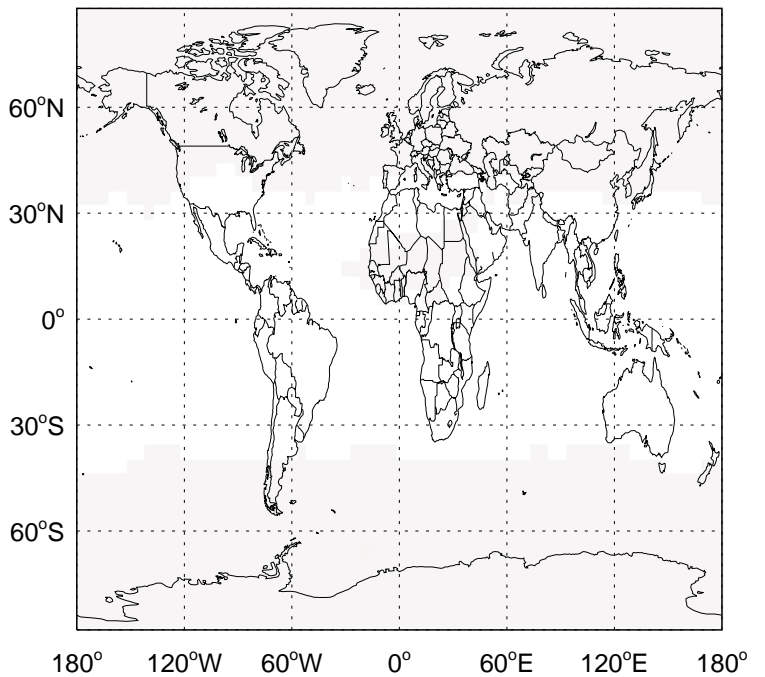
GC\_12.0.0 / v11-02f-Run1  
CH4/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH4 / Ratio @ Surface for Oct

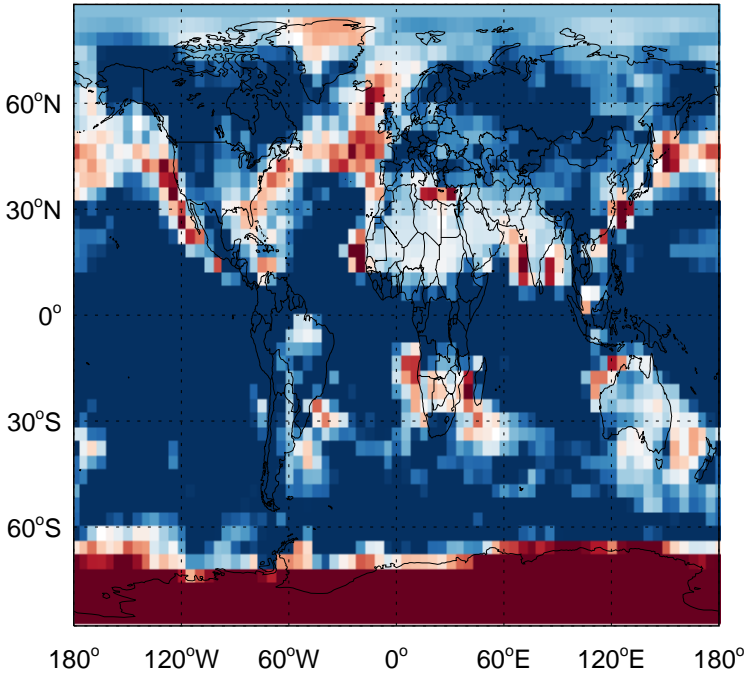


GC\_12.0.0 / v11-02e-Run1  
CH4/ Ratio @ 500 hPa for Oct

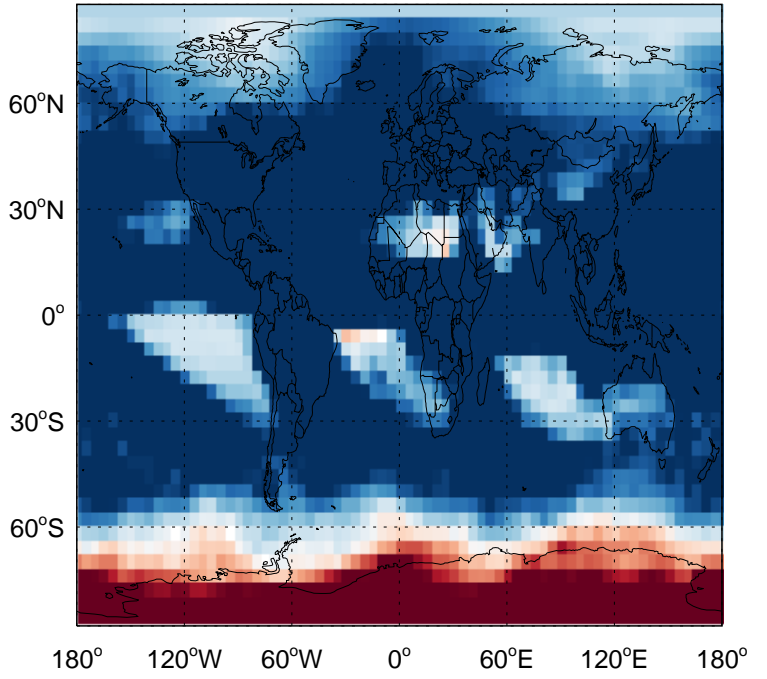


# GEOS-Chem Ratio Maps at surface and 500 hPa

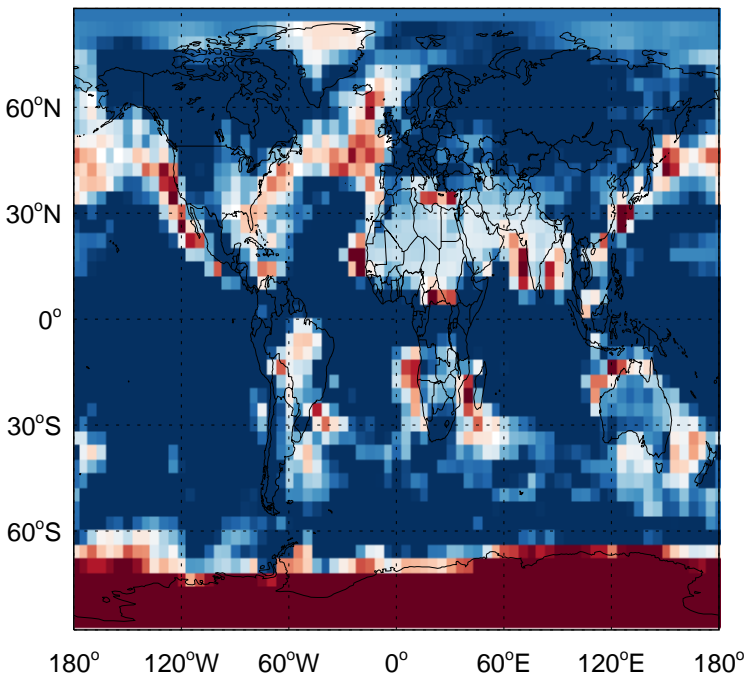
GC\_12.0.0 / v11-02f-Run1  
BrCl / Ratio @ Surface for Oct



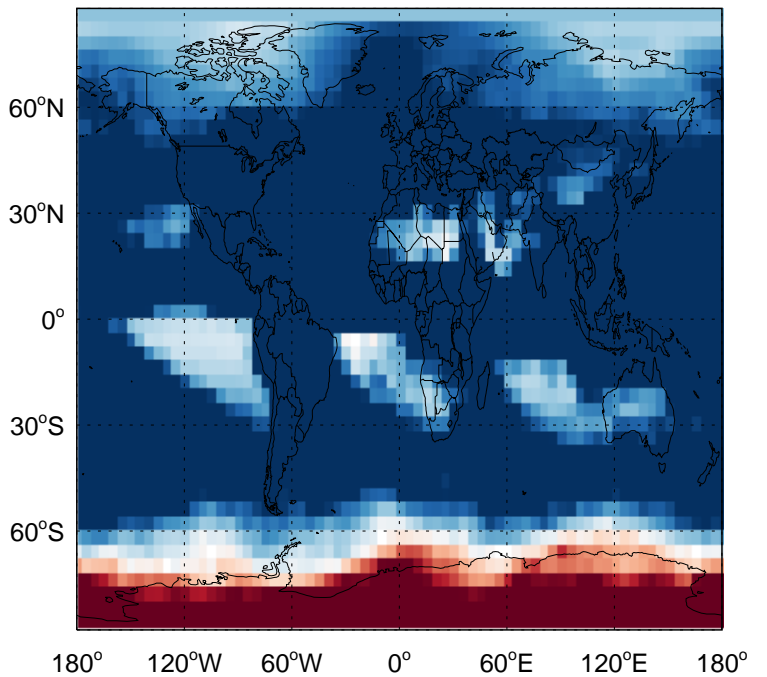
GC\_12.0.0 / v11-02f-Run1  
BrCl / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
BrCl / Ratio @ Surface for Oct

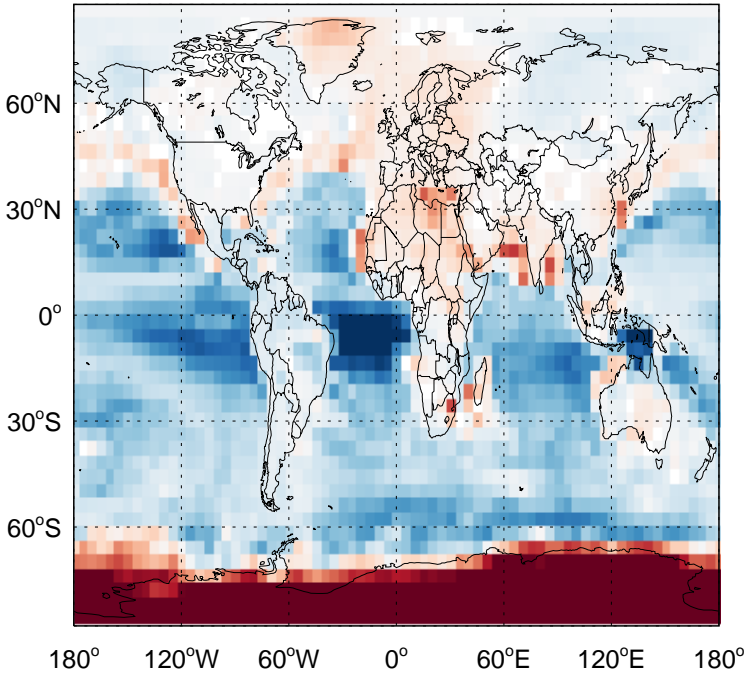


GC\_12.0.0 / v11-02e-Run1  
BrCl / Ratio @ 500 hPa for Oct

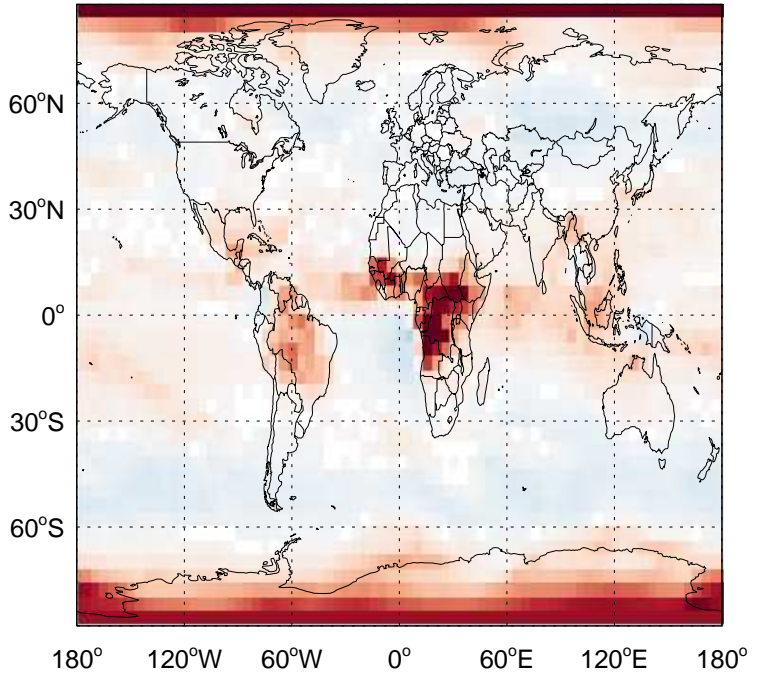


# GEOS-Chem Ratio Maps at surface and 500 hPa

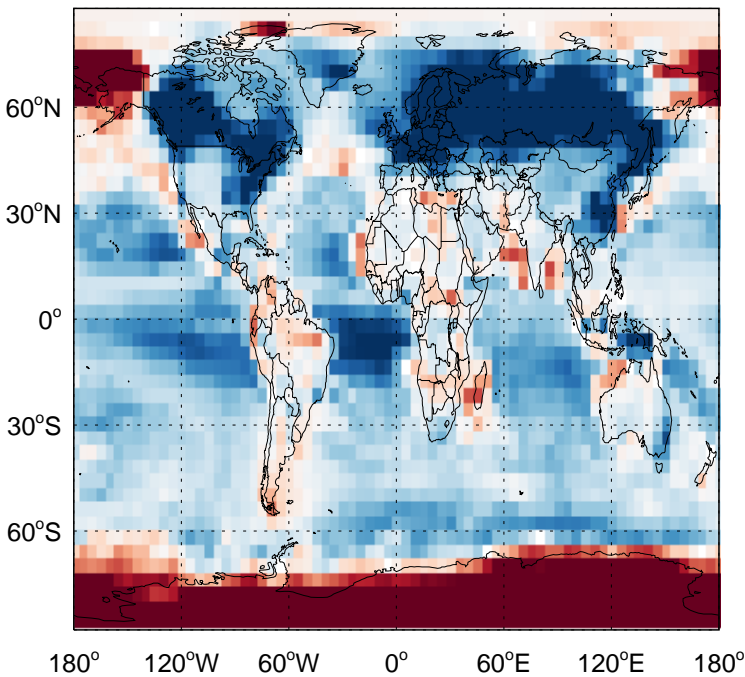
GC\_12.0.0 / v11-02f-Run1  
HCl / Ratio @ Surface for Oct



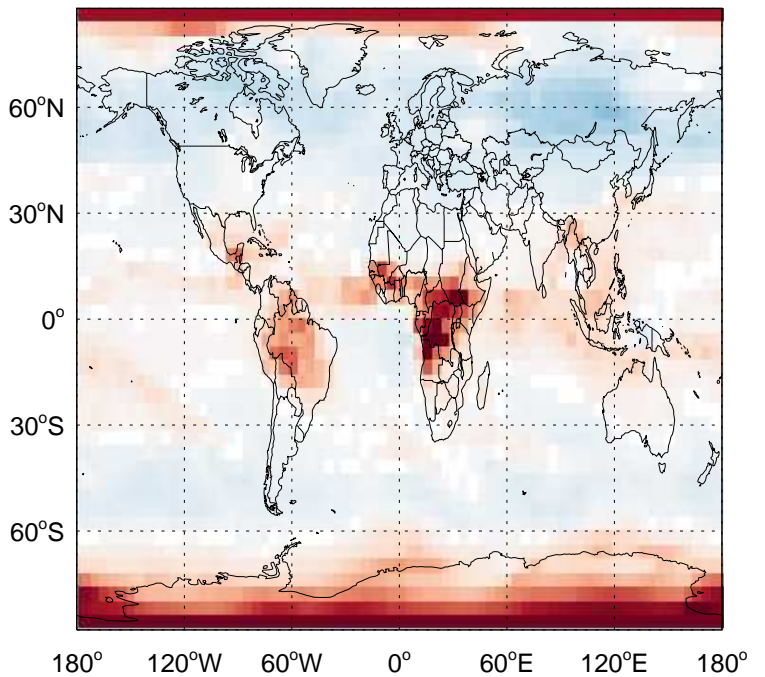
GC\_12.0.0 / v11-02f-Run1  
HCl / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCl / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
HCl / Ratio @ 500 hPa for Oct





# GEOS-Chem Ratio Maps at surface and 500 hPa

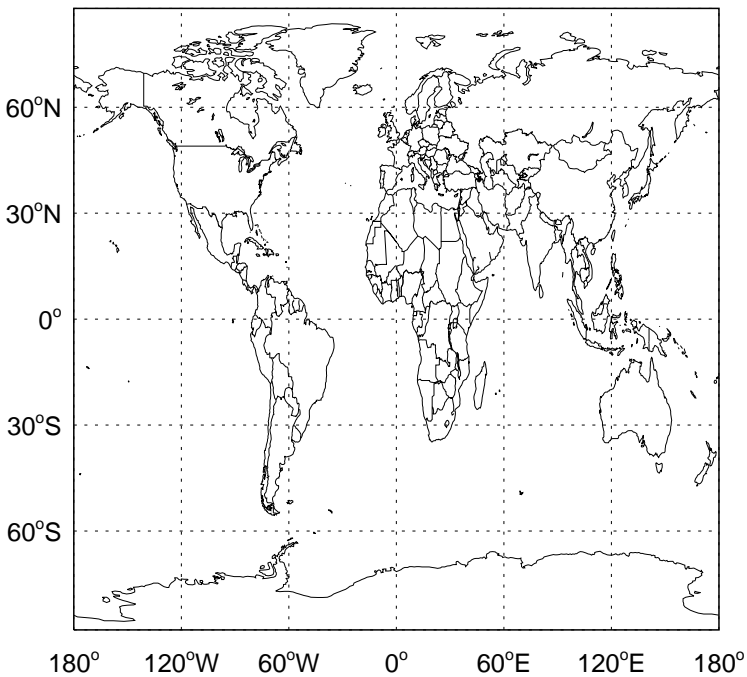
GC\_12.0.0 / v11-02f-Run1  
CCI4 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CCI4/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CCI4 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
CCI4/ Ratio @ 500 hPa for Oct

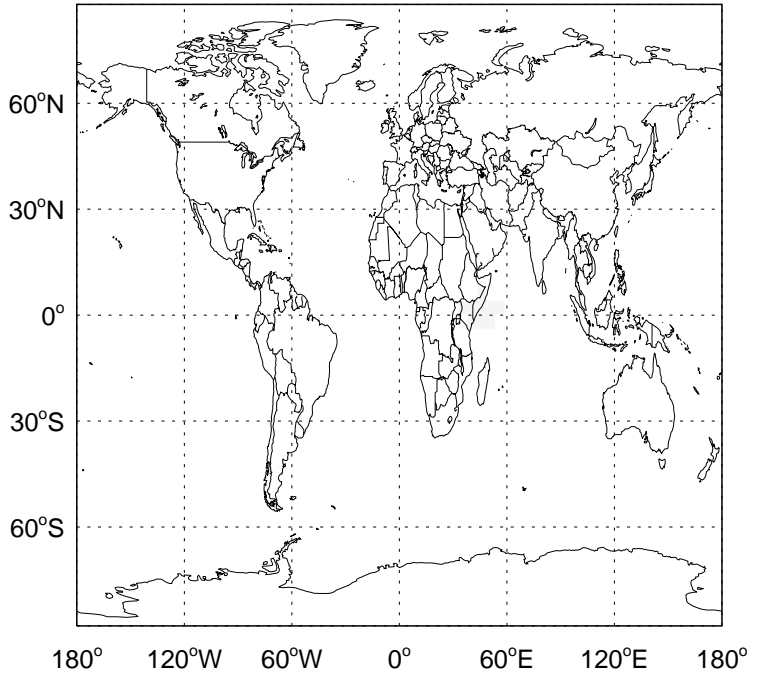


# GEOS-Chem Ratio Maps at surface and 500 hPa

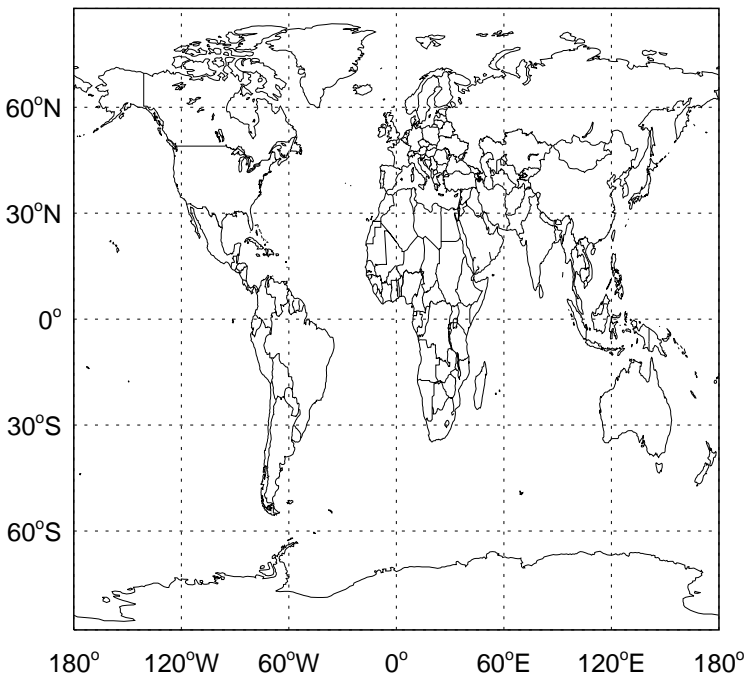
GC\_12.0.0 / v11-02f-Run1  
CH3Cl / Ratio @ Surface for Oct



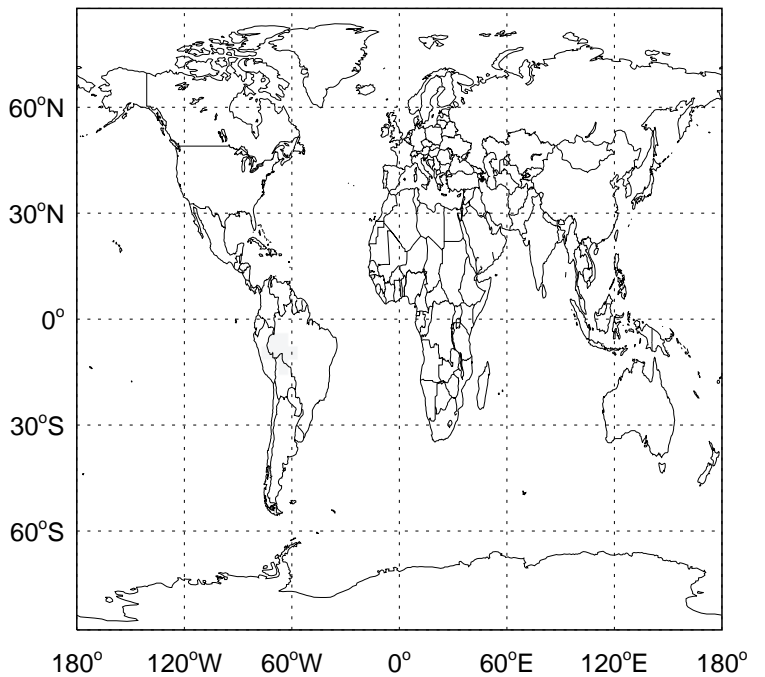
GC\_12.0.0 / v11-02f-Run1  
CH3Cl / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH3Cl / Ratio @ Surface for Oct

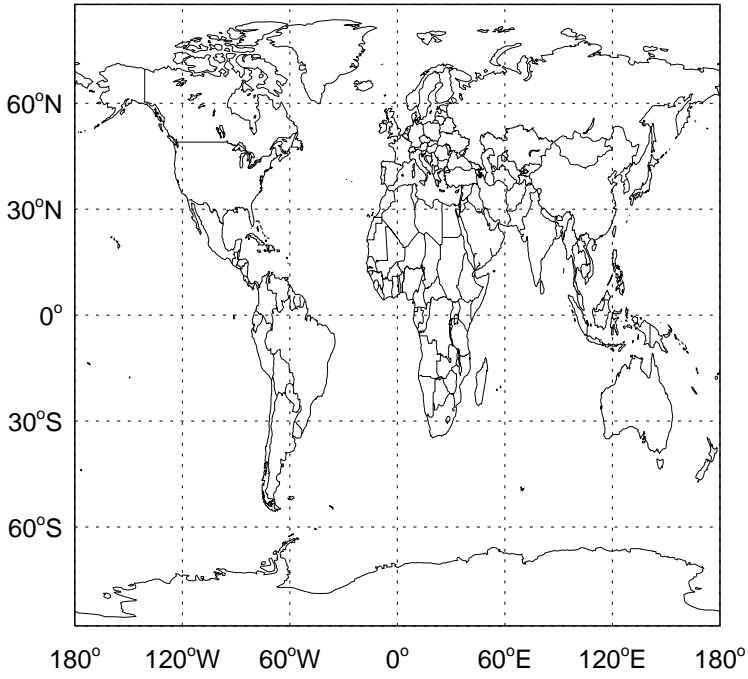


GC\_12.0.0 / v11-02e-Run1  
CH3Cl / Ratio @ 500 hPa for Oct

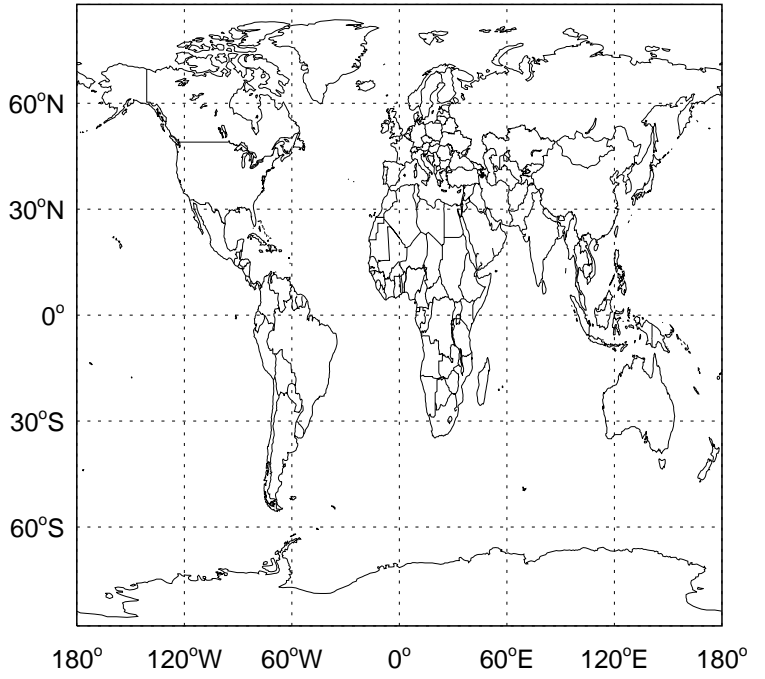


# GEOS-Chem Ratio Maps at surface and 500 hPa

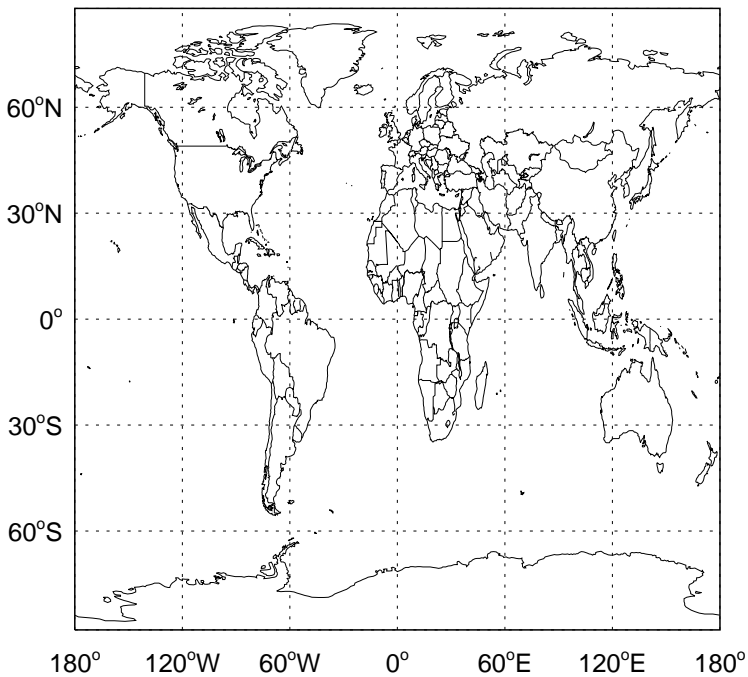
GC\_12.0.0 / v11-02f-Run1  
CH3CCI3 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CH3CCI3/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CH3CCI3 / Ratio @ Surface for Oct



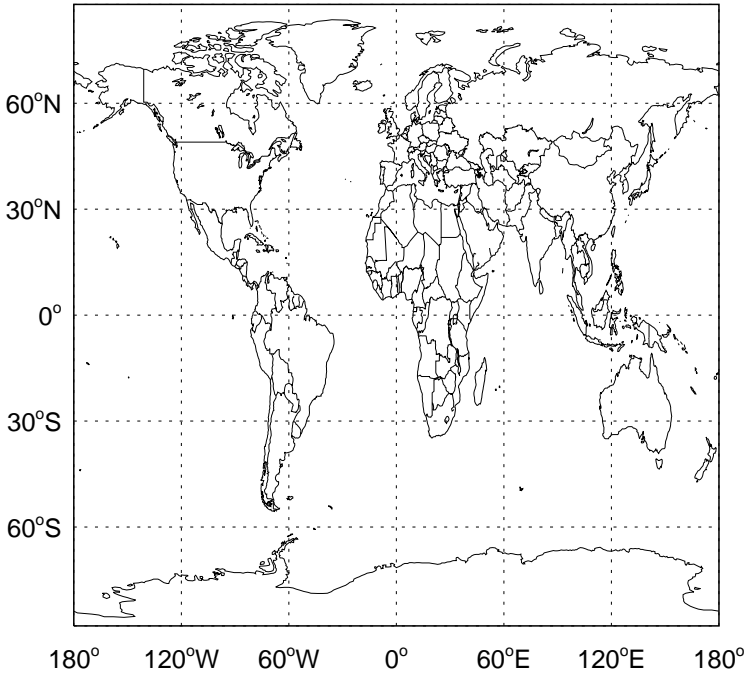
GC\_12.0.0 / v11-02e-Run1  
CH3CCI3/ Ratio @ 500 hPa for Oct





# GEOS-Chem Ratio Maps at surface and 500 hPa

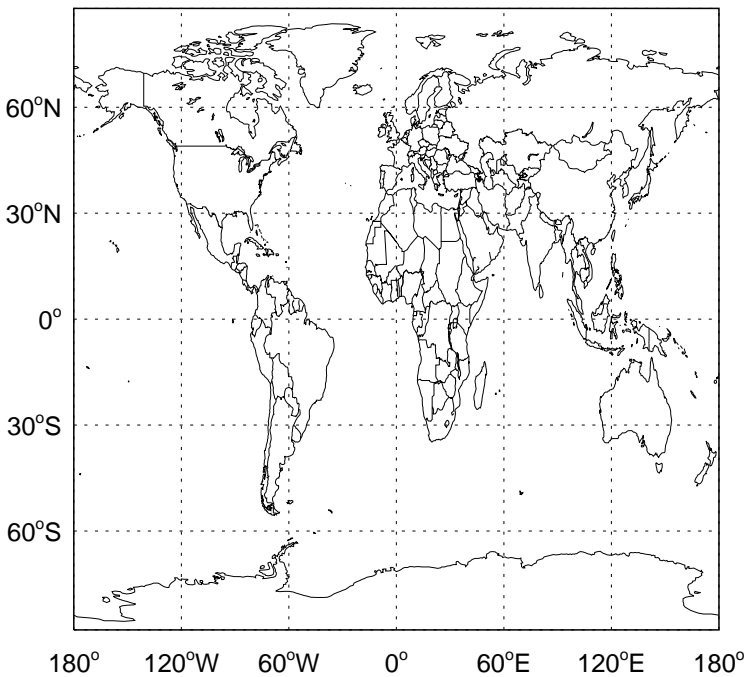
GC\_12.0.0 / v11-02f-Run1  
CFC113 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CFC113 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC113 / Ratio @ Surface for Oct

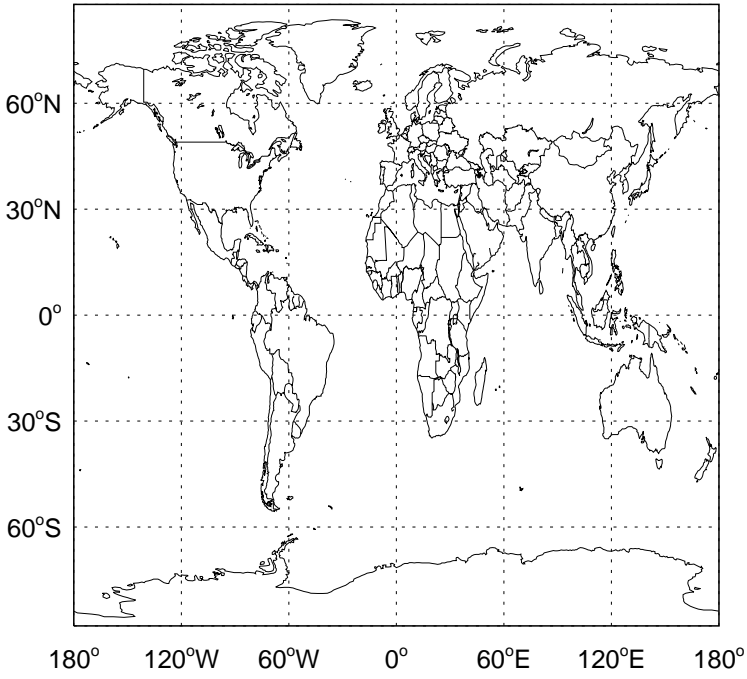


GC\_12.0.0 / v11-02e-Run1  
CFC113 / Ratio @ 500 hPa for Oct

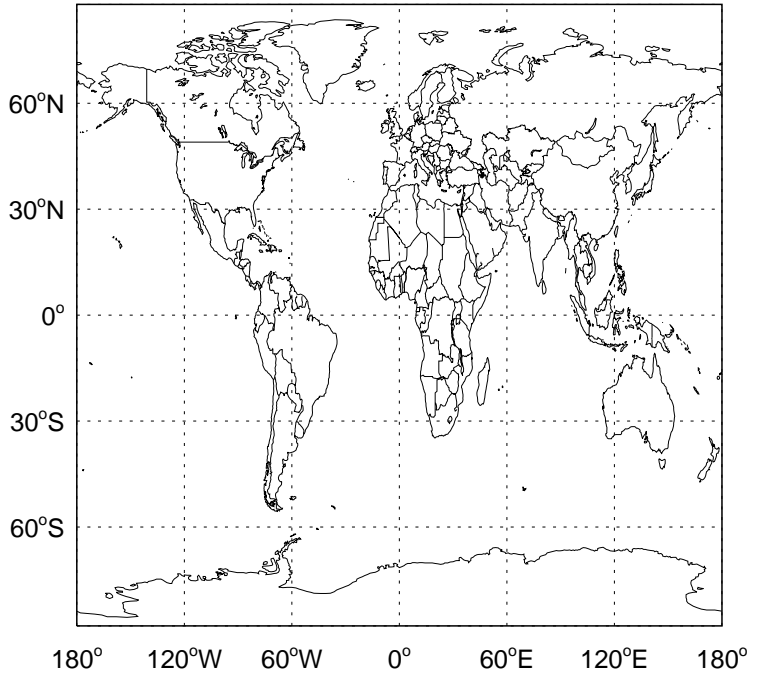


# GEOS-Chem Ratio Maps at surface and 500 hPa

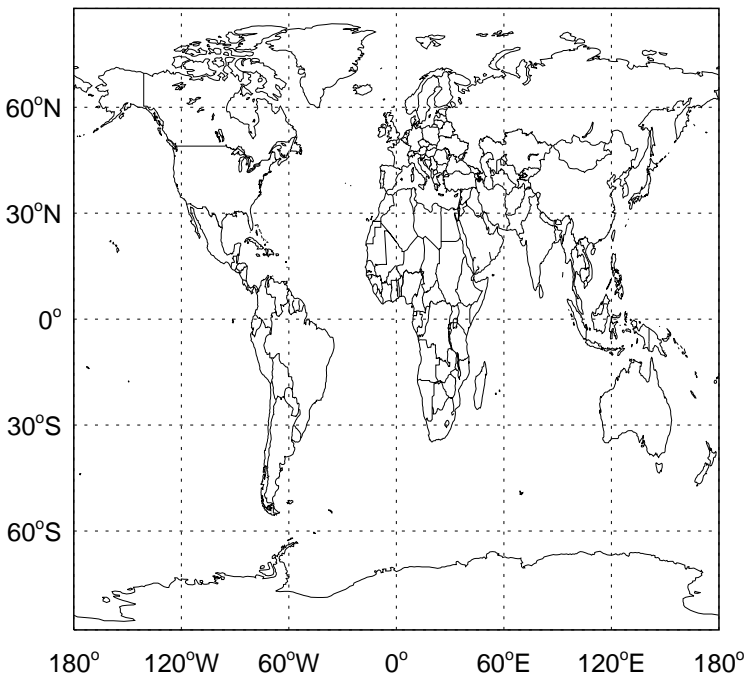
GC\_12.0.0 / v11-02f-Run1  
CFC114 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CFC114/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC114 / Ratio @ Surface for Oct

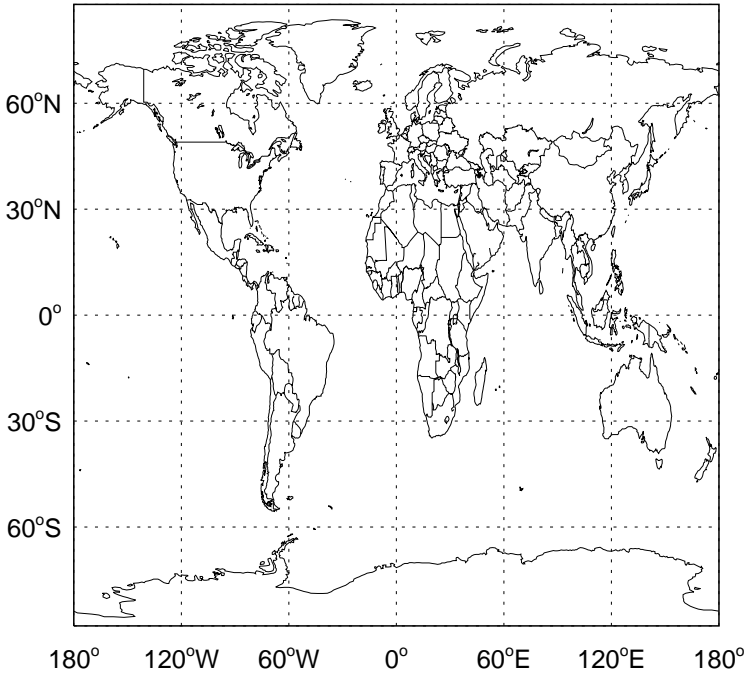


GC\_12.0.0 / v11-02e-Run1  
CFC114/ Ratio @ 500 hPa for Oct

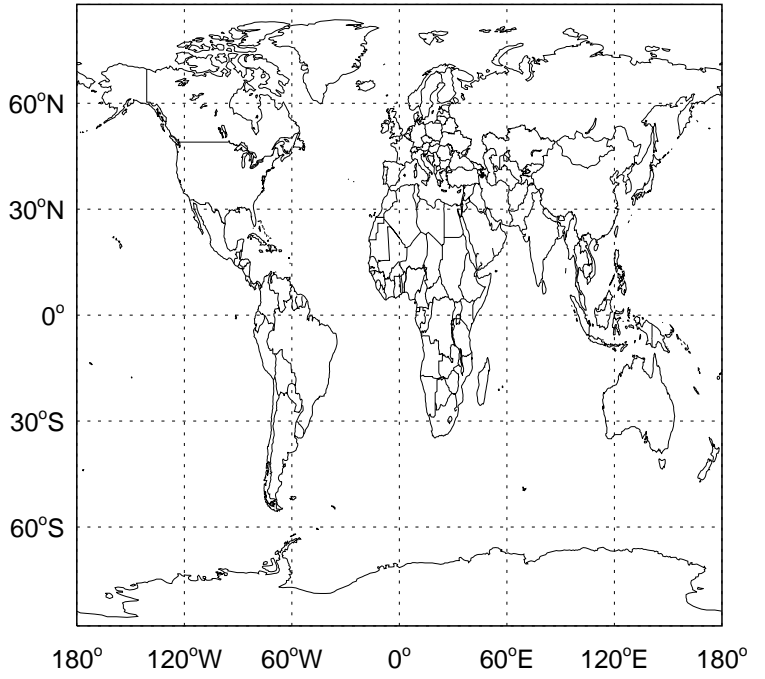


# GEOS-Chem Ratio Maps at surface and 500 hPa

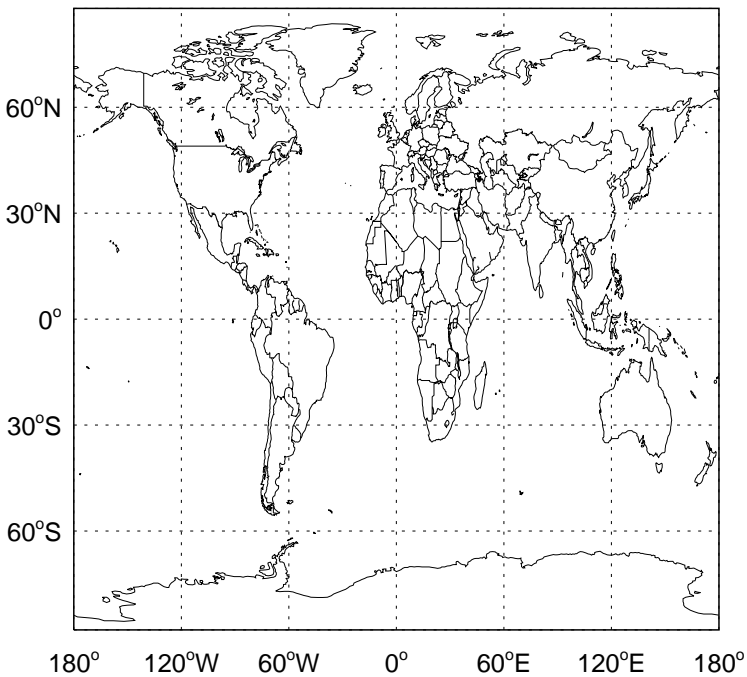
GC\_12.0.0 / v11-02f-Run1  
CFC115 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CFC115/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC115 / Ratio @ Surface for Oct



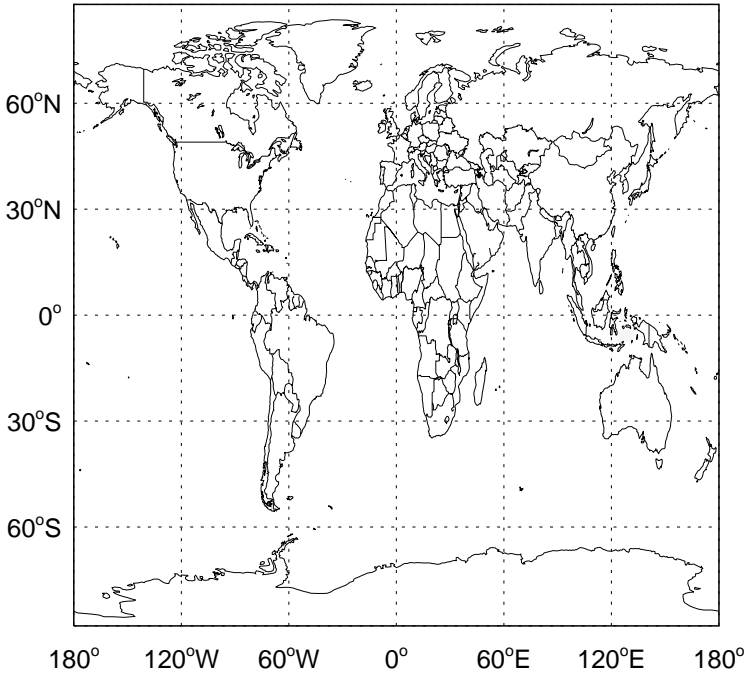
GC\_12.0.0 / v11-02e-Run1  
CFC115/ Ratio @ 500 hPa for Oct



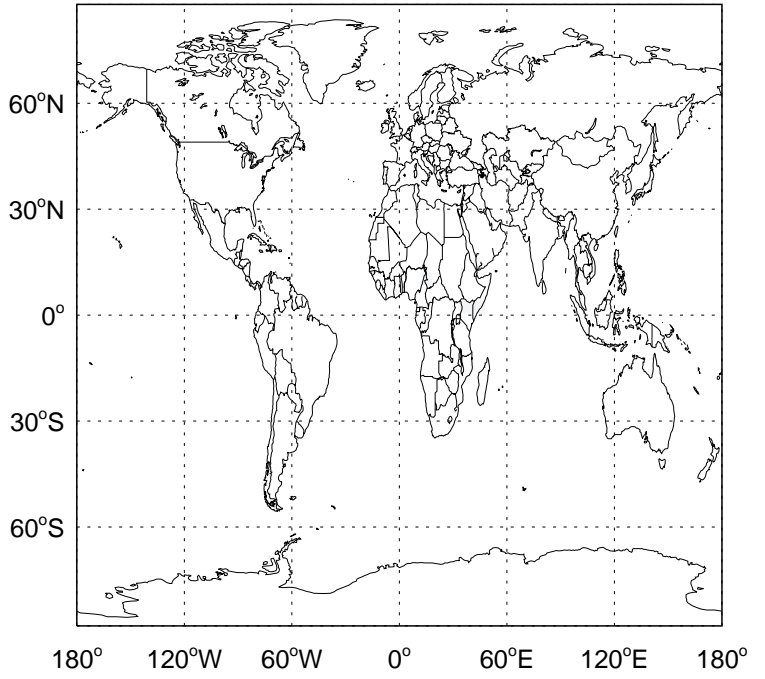


# GEOS-Chem Ratio Maps at surface and 500 hPa

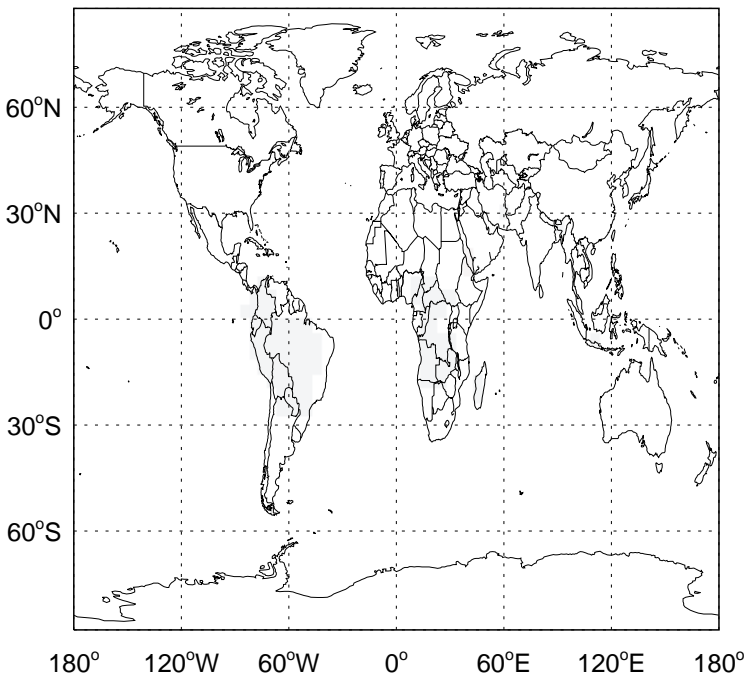
GC\_12.0.0 / v11-02f-Run1  
HCFC123 / Ratio @ Surface for Oct



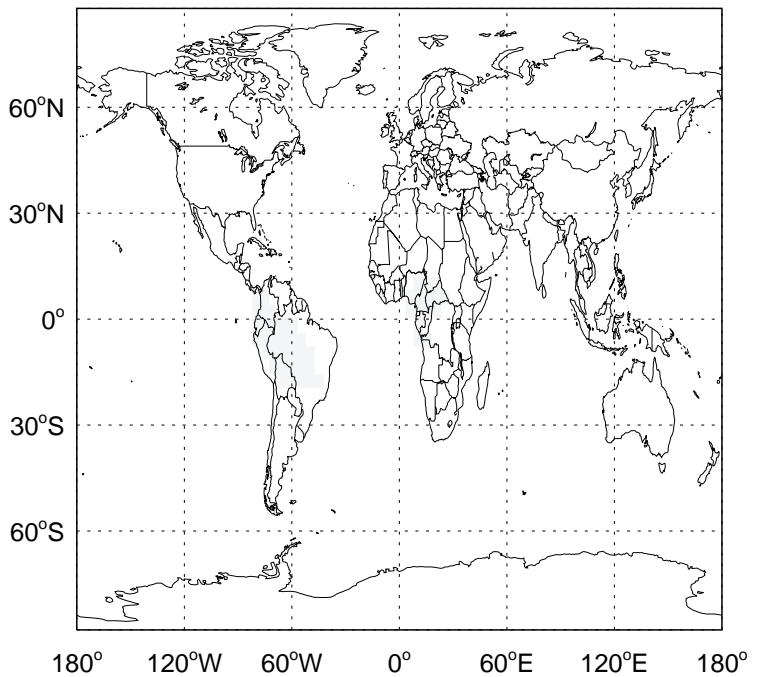
GC\_12.0.0 / v11-02f-Run1  
HCFC123/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCFC123 / Ratio @ Surface for Oct

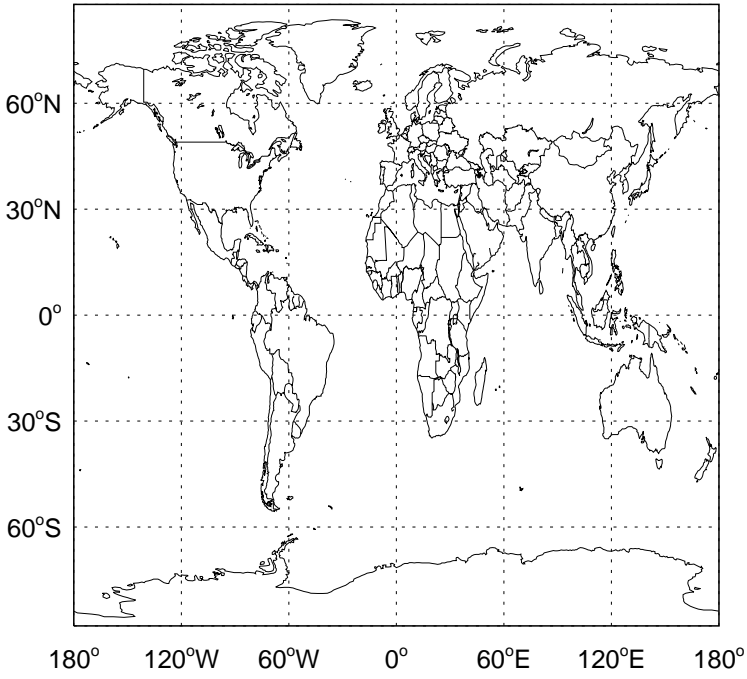


GC\_12.0.0 / v11-02e-Run1  
HCFC123/ Ratio @ 500 hPa for Oct

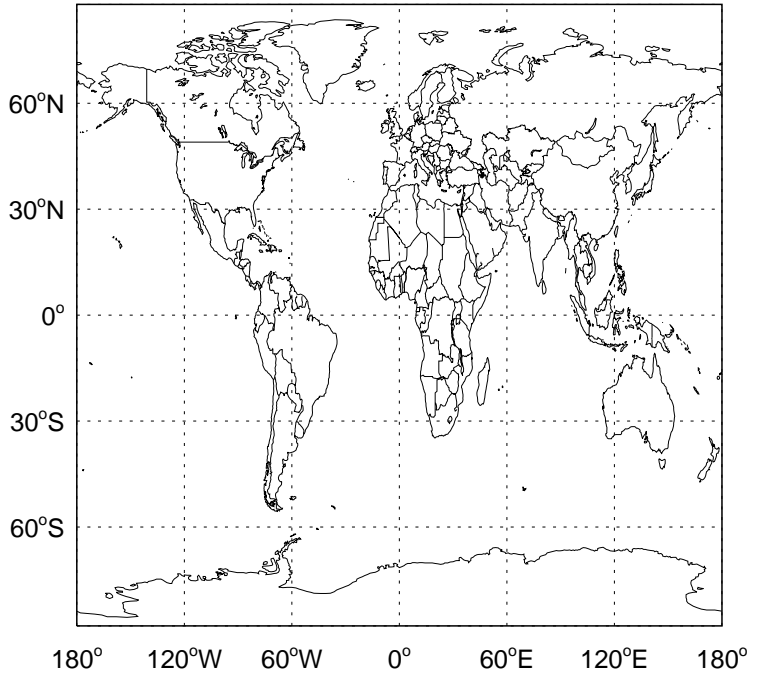


# GEOS-Chem Ratio Maps at surface and 500 hPa

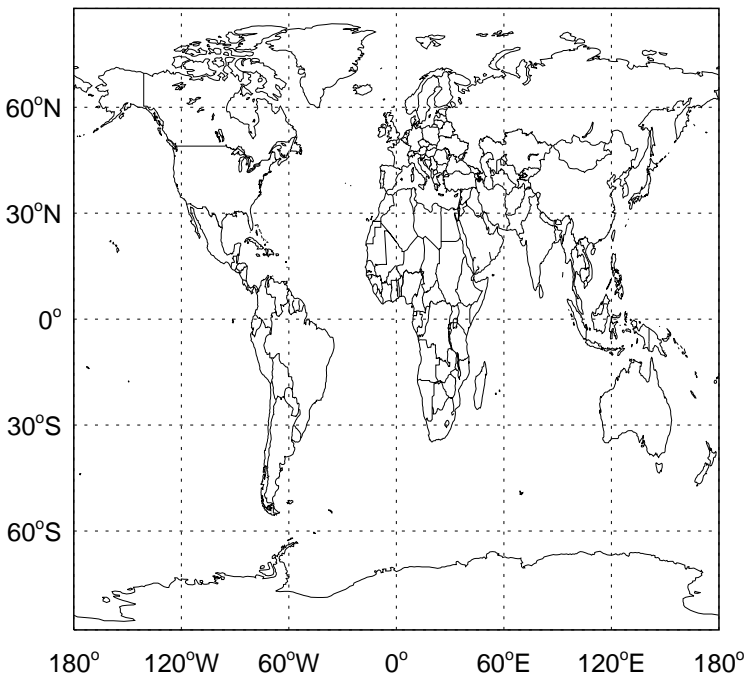
GC\_12.0.0 / v11-02f-Run1  
HCFC141b / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
HCFC141b / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCFC141b / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
HCFC141b / Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

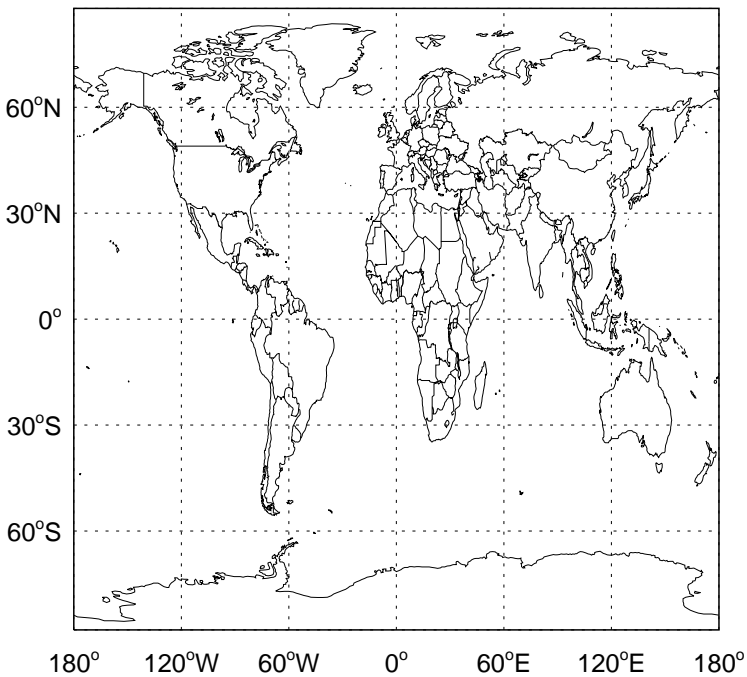
GC\_12.0.0 / v11-02f-Run1  
HCFC142b / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
HCFC142b/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCFC142b / Ratio @ Surface for Oct



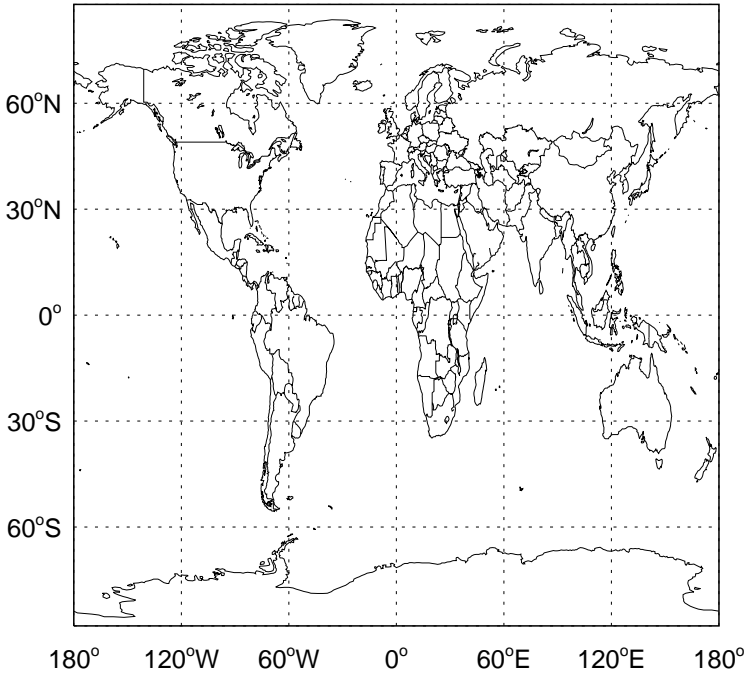
GC\_12.0.0 / v11-02e-Run1  
HCFC142b/ Ratio @ 500 hPa for Oct



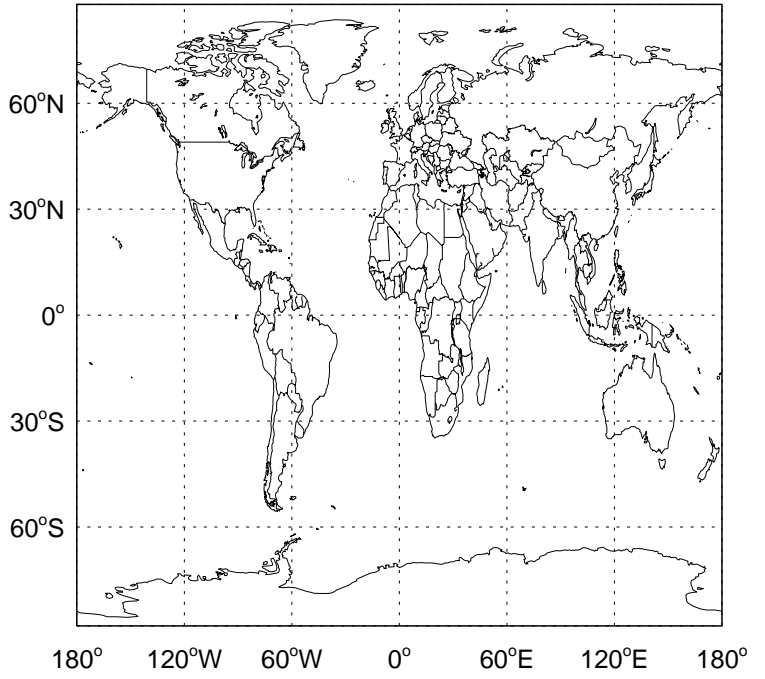


# GEOS-Chem Ratio Maps at surface and 500 hPa

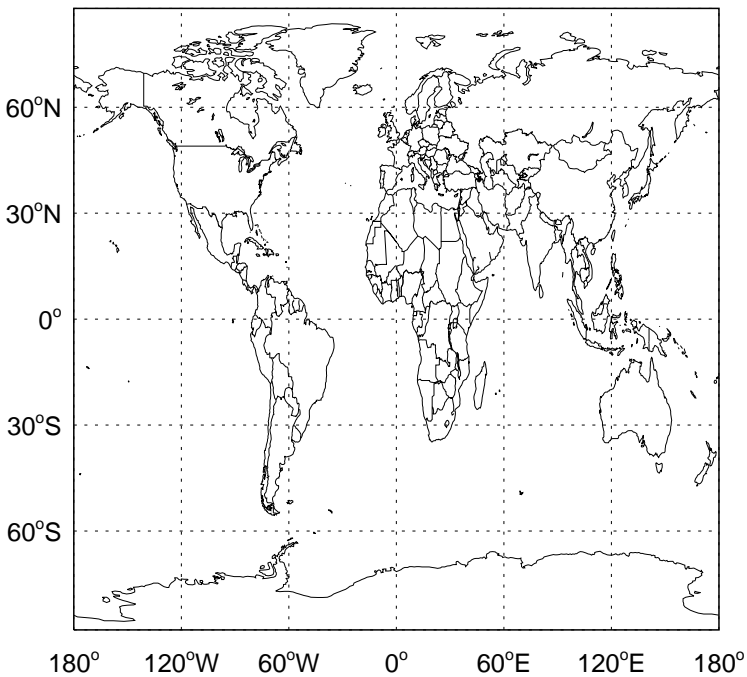
GC\_12.0.0 / v11-02f-Run1  
CFC11 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CFC11/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC11 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC11/ Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

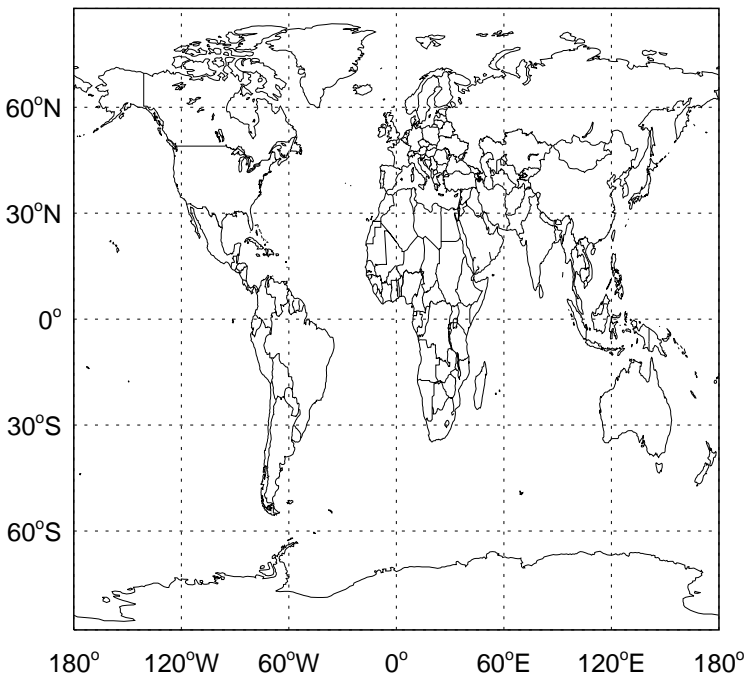
GC\_12.0.0 / v11-02f-Run1  
CFC12 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
CFC12/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CFC12 / Ratio @ Surface for Oct

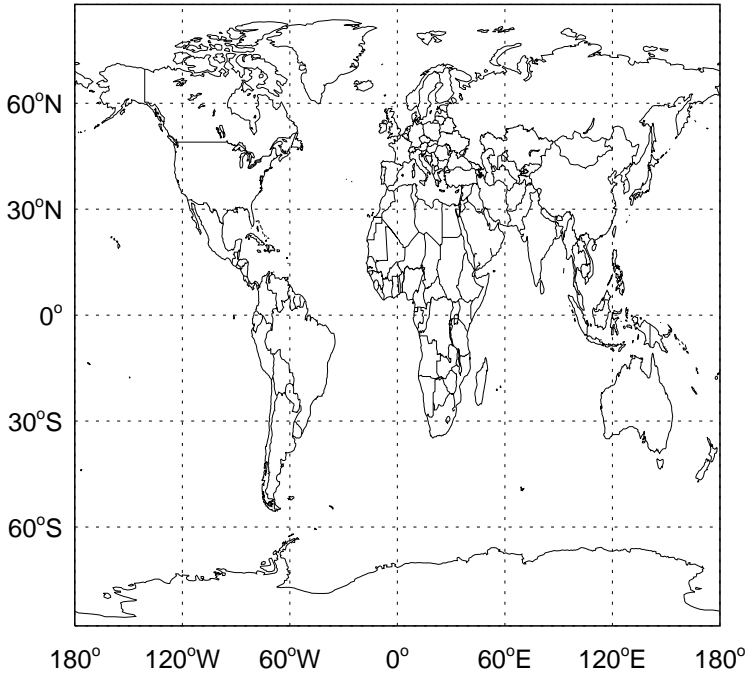


GC\_12.0.0 / v11-02e-Run1  
CFC12/ Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

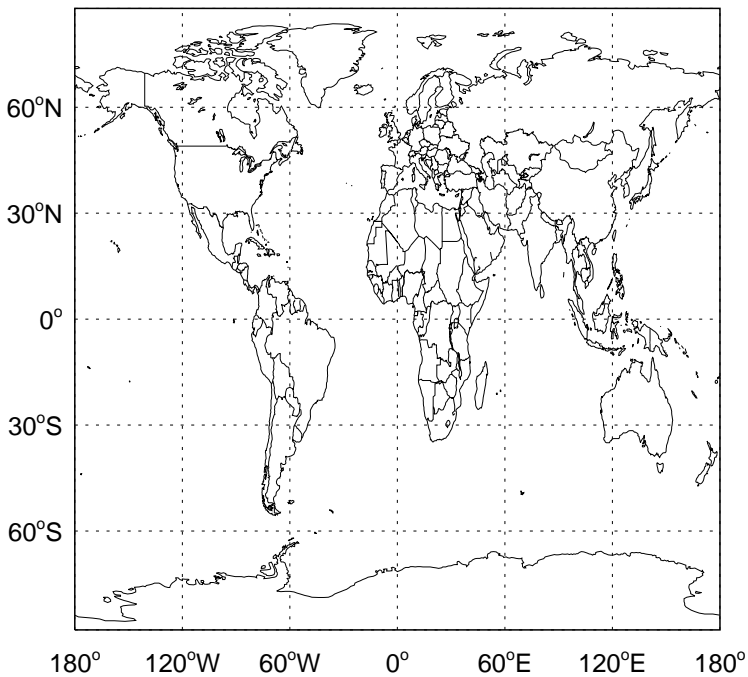
GC\_12.0.0 / v11-02f-Run1  
HCFC22 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
HCFC22/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HCFC22 / Ratio @ Surface for Oct



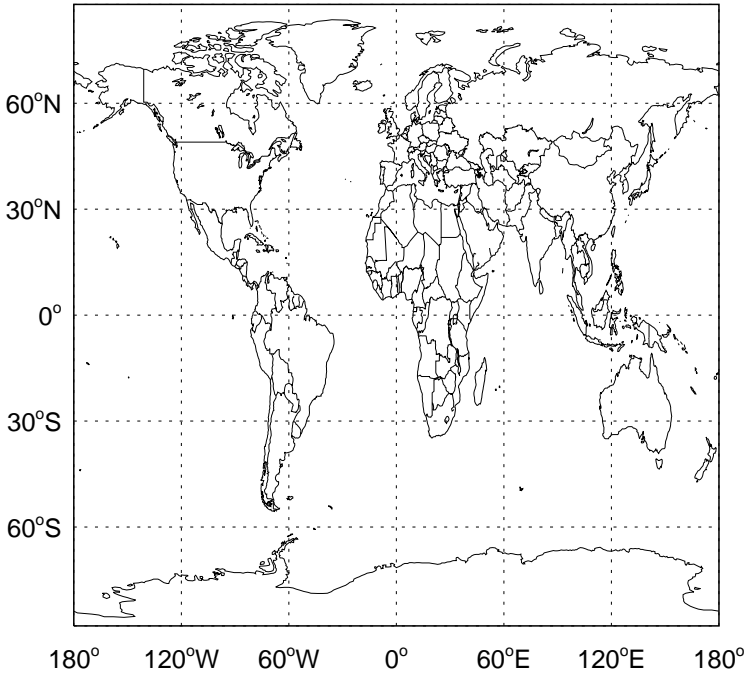
GC\_12.0.0 / v11-02e-Run1  
HCFC22/ Ratio @ 500 hPa for Oct





# GEOS-Chem Ratio Maps at surface and 500 hPa

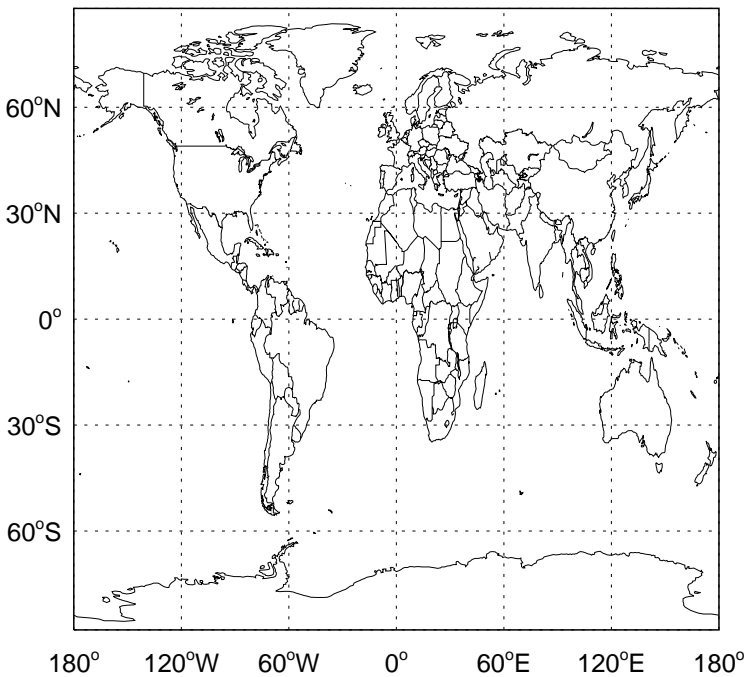
GC\_12.0.0 / v11-02f-Run1  
H1211 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
H1211/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
H1211 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
H1211/ Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

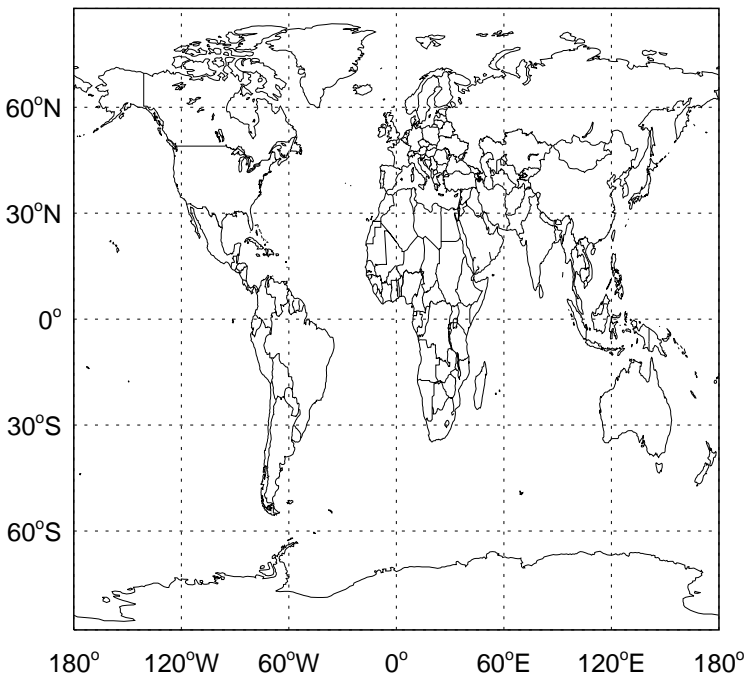
GC\_12.0.0 / v11-02f-Run1  
H1301 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
H1301/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
H1301 / Ratio @ Surface for Oct

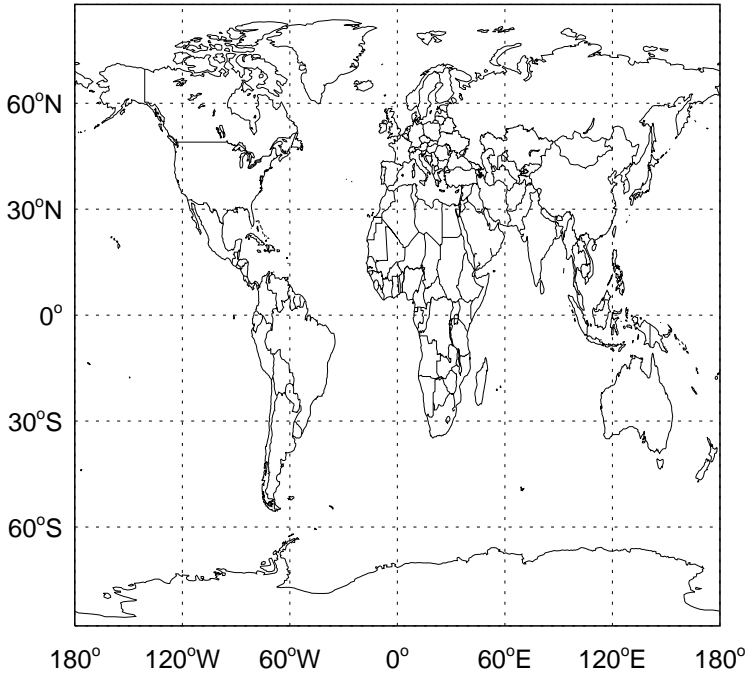


GC\_12.0.0 / v11-02e-Run1  
H1301/ Ratio @ 500 hPa for Oct



# GEOS-Chem Ratio Maps at surface and 500 hPa

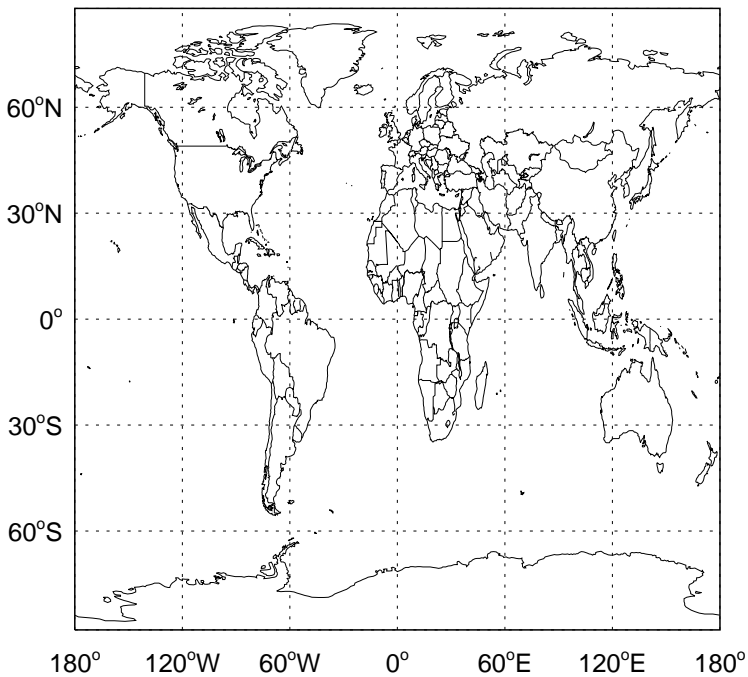
GC\_12.0.0 / v11-02f-Run1  
H2402 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
H2402/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
H2402 / Ratio @ Surface for Oct

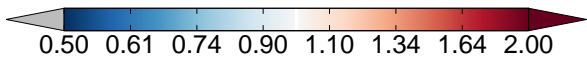
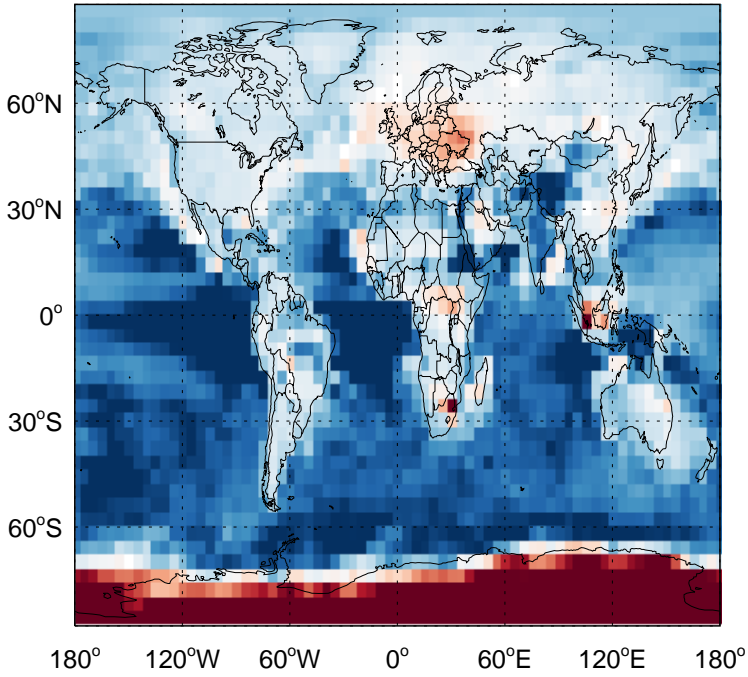


GC\_12.0.0 / v11-02e-Run1  
H2402/ Ratio @ 500 hPa for Oct

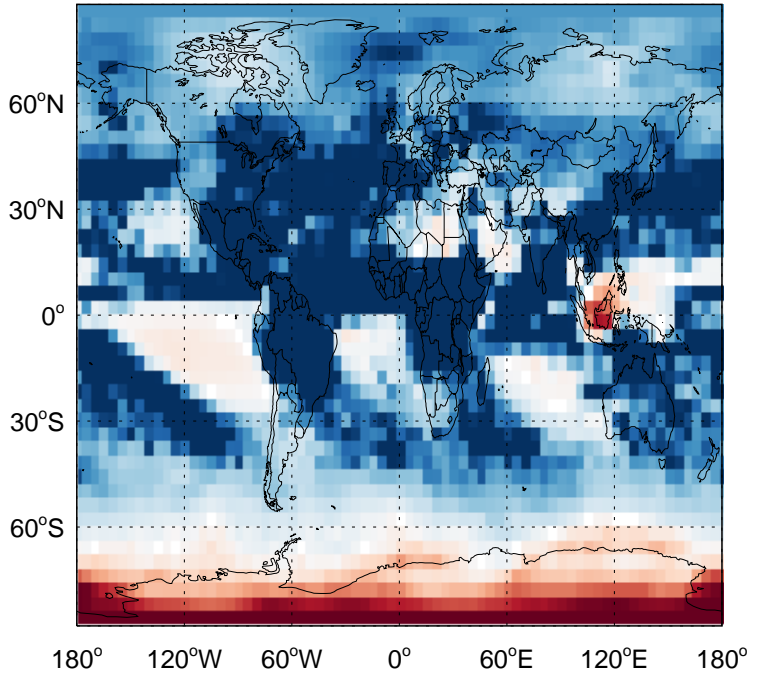


# GEOS-Chem Ratio Maps at surface and 500 hPa

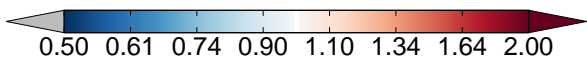
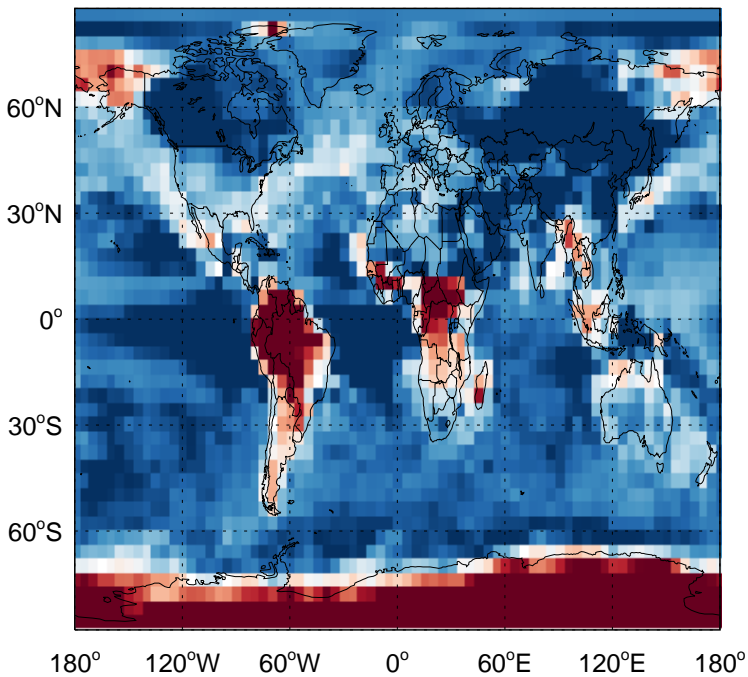
GC\_12.0.0 / v11-02f-Run1  
Cl / Ratio @ Surface for Oct



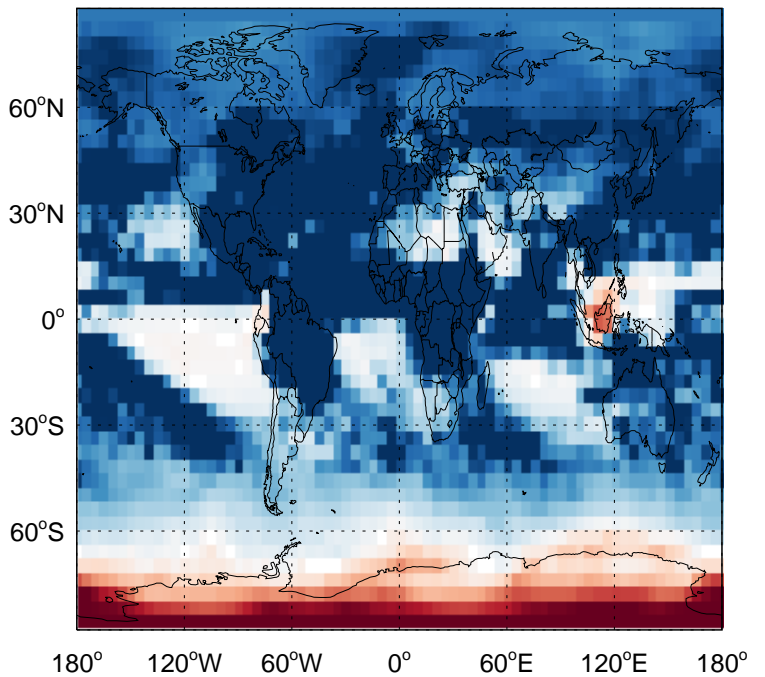
GC\_12.0.0 / v11-02f-Run1  
Cl / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
Cl / Ratio @ Surface for Oct



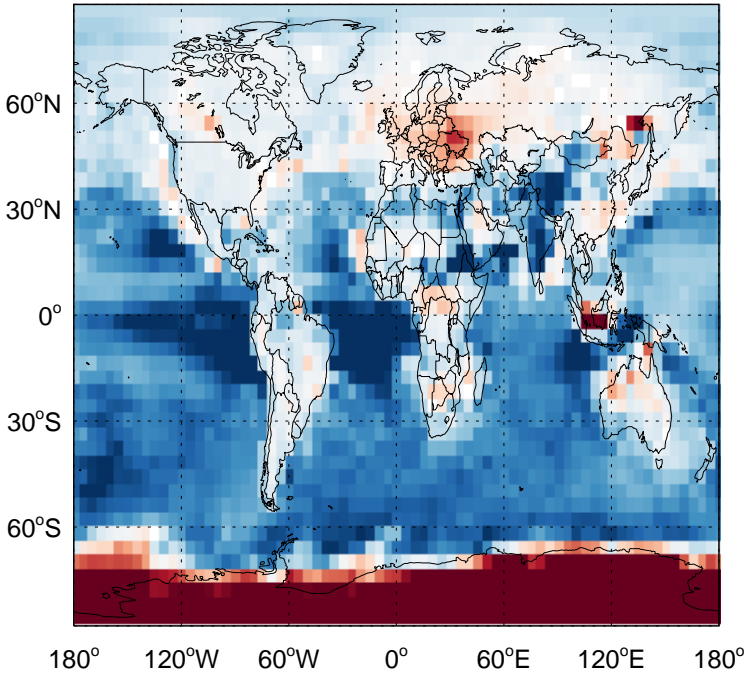
GC\_12.0.0 / v11-02e-Run1  
Cl / Ratio @ 500 hPa for Oct



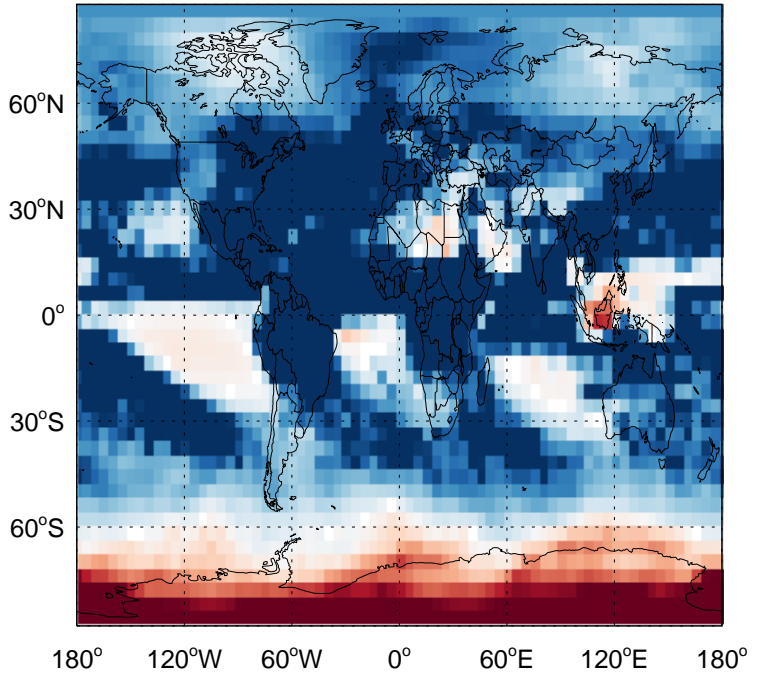


# GEOS-Chem Ratio Maps at surface and 500 hPa

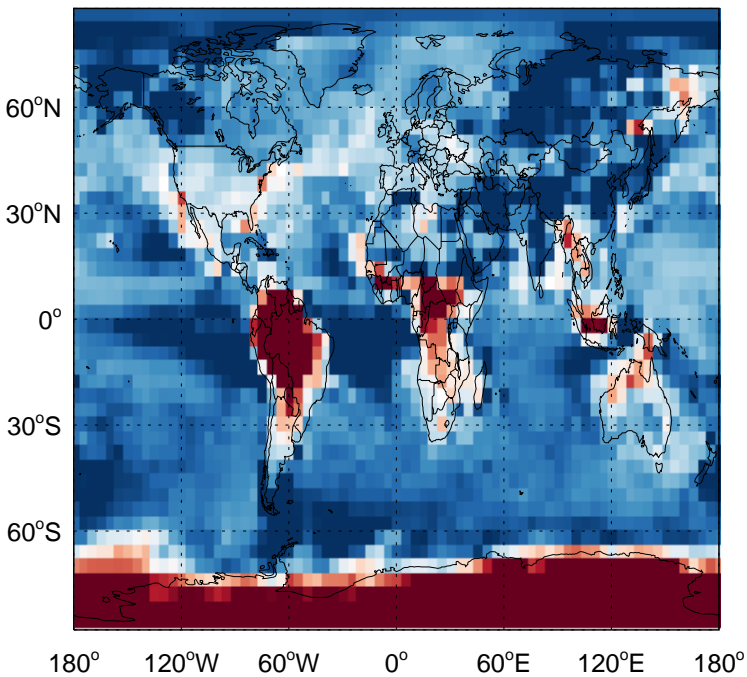
GC\_12.0.0 / v11-02f-Run1  
ClO / Ratio @ Surface for Oct



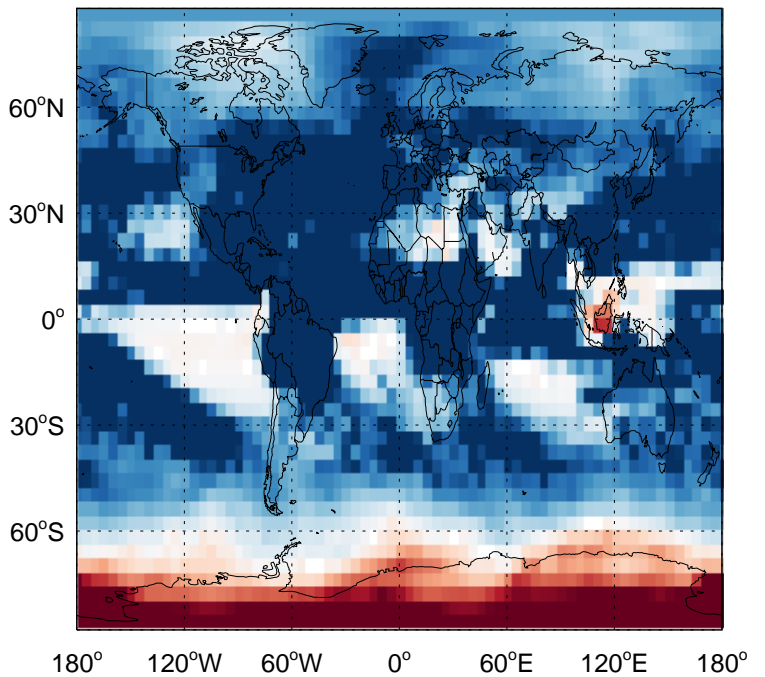
GC\_12.0.0 / v11-02f-Run1  
ClO / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ClO / Ratio @ Surface for Oct

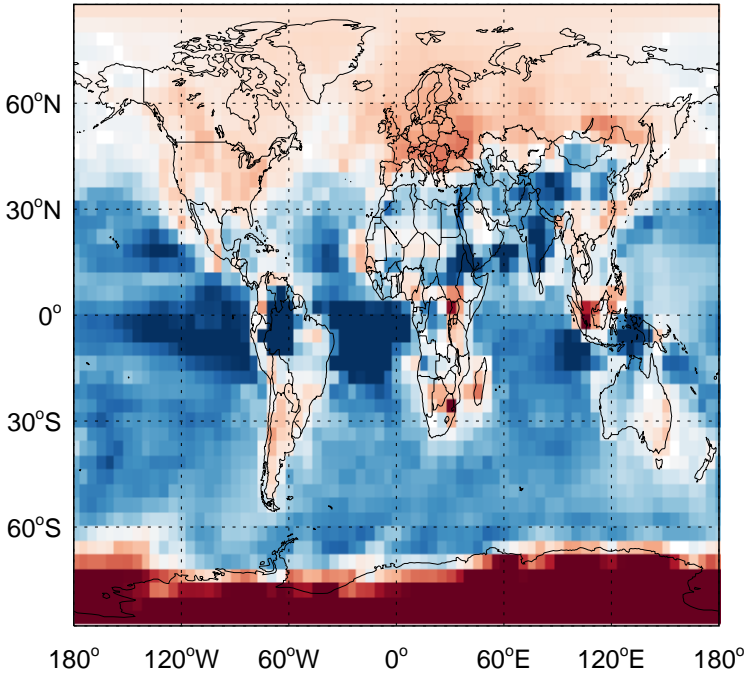


GC\_12.0.0 / v11-02e-Run1  
ClO / Ratio @ 500 hPa for Oct

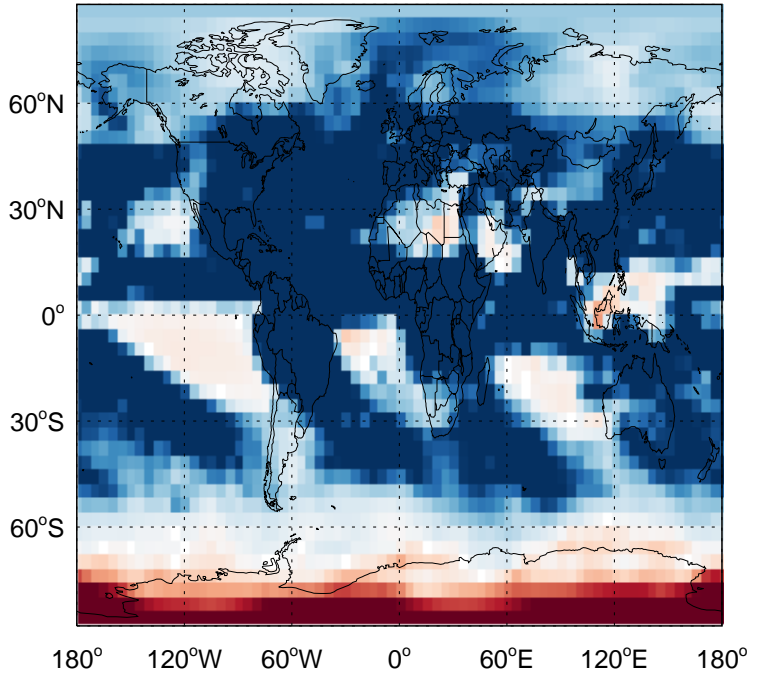


# GEOS-Chem Ratio Maps at surface and 500 hPa

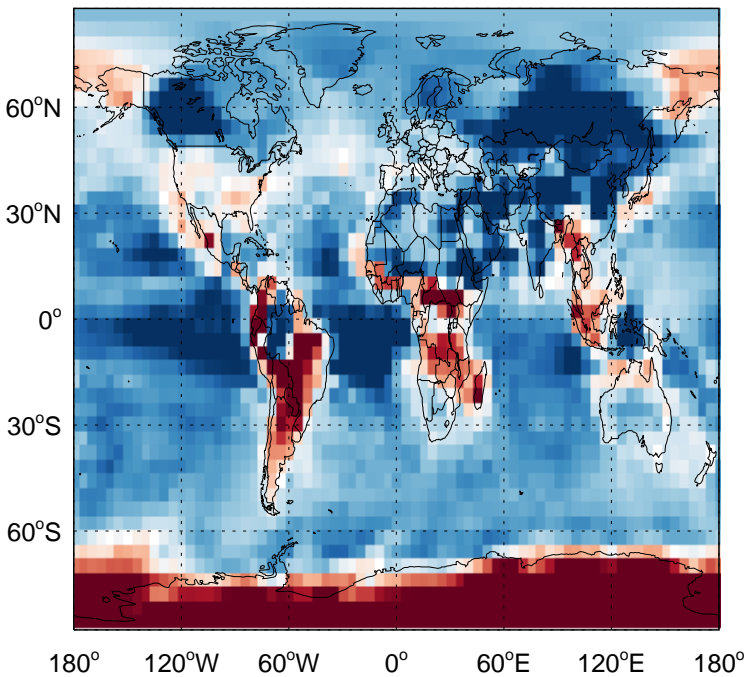
GC\_12.0.0 / v11-02f-Run1  
HOCl / Ratio @ Surface for Oct



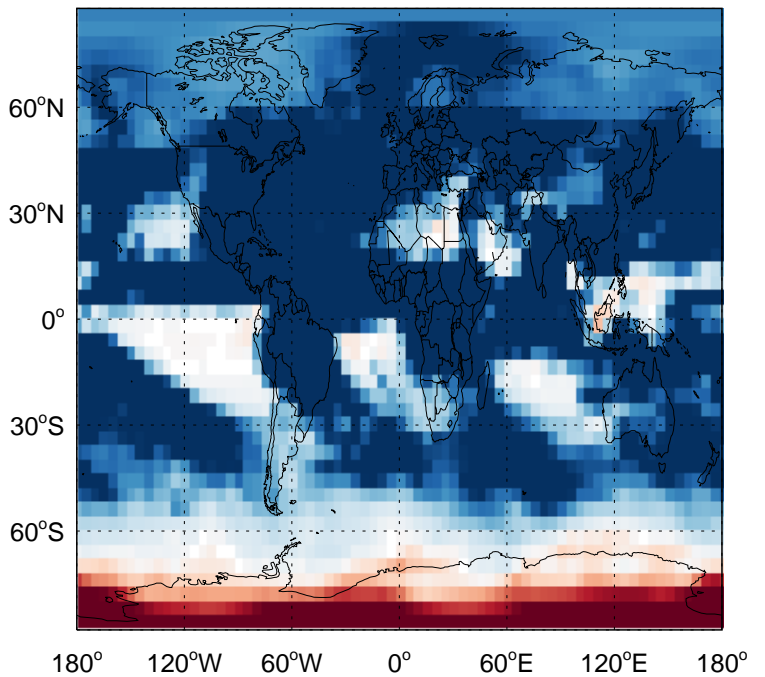
GC\_12.0.0 / v11-02f-Run1  
HOCl / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HOCl / Ratio @ Surface for Oct

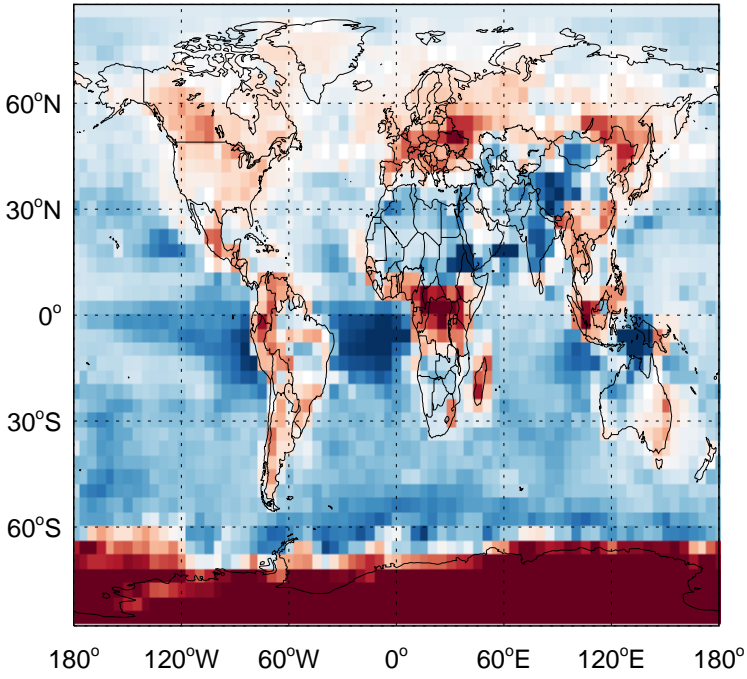


GC\_12.0.0 / v11-02e-Run1  
HOCl / Ratio @ 500 hPa for Oct

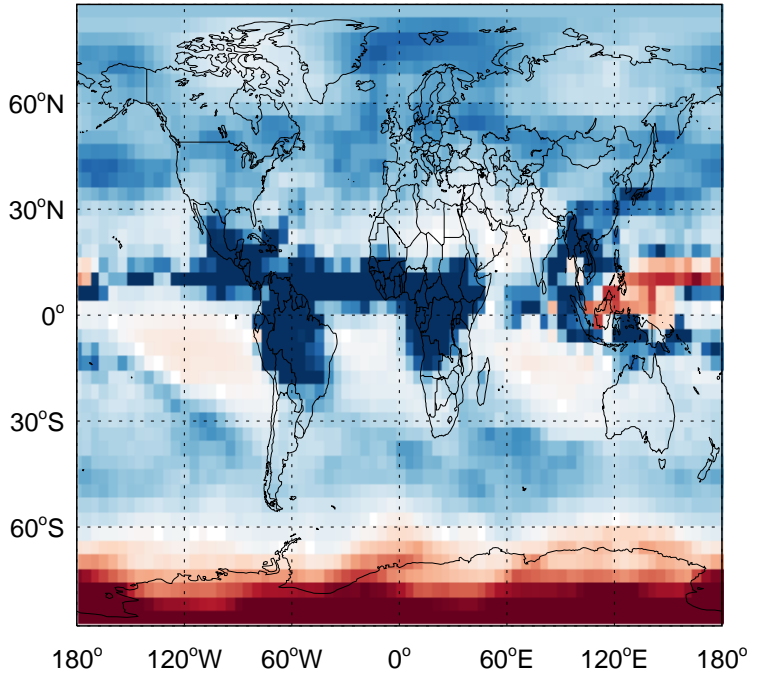


# GEOS-Chem Ratio Maps at surface and 500 hPa

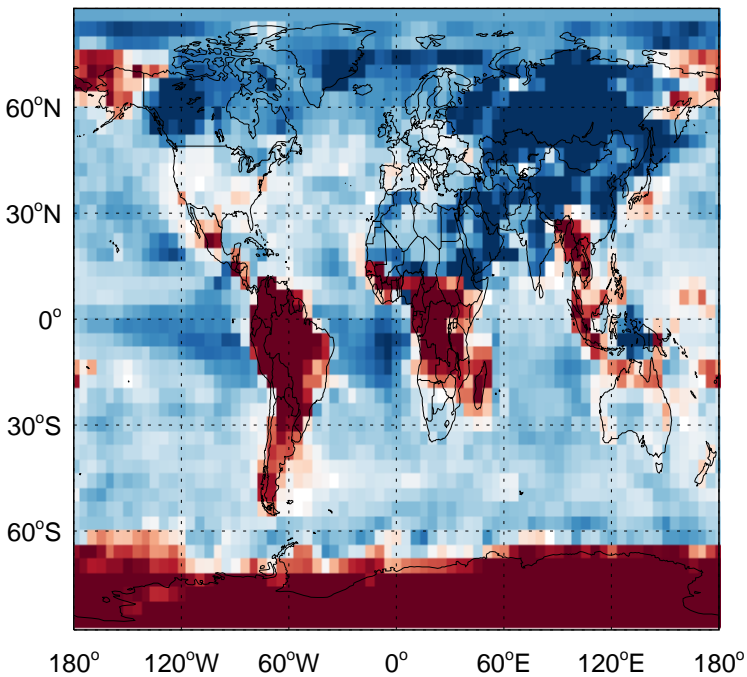
GC\_12.0.0 / v11-02f-Run1  
ClNO<sub>3</sub> / Ratio @ Surface for Oct



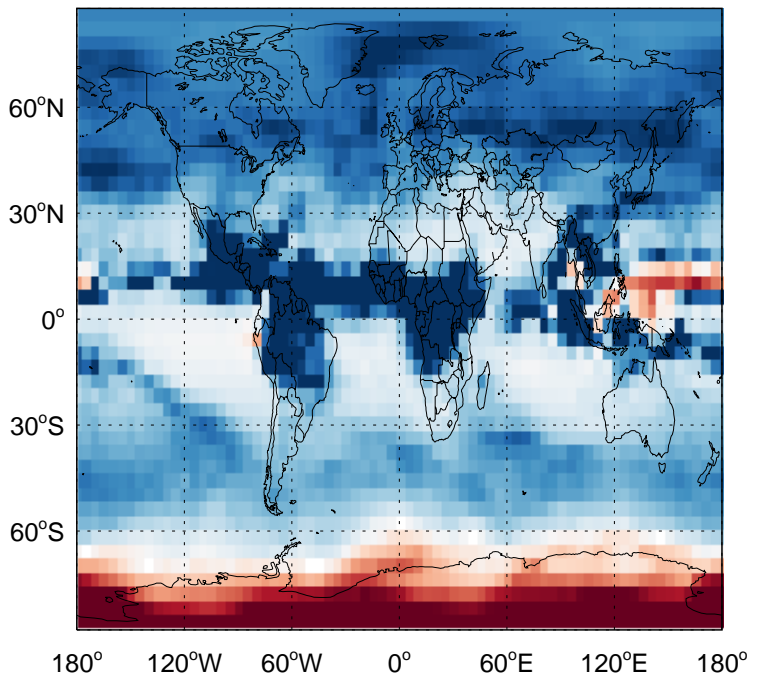
GC\_12.0.0 / v11-02f-Run1  
ClNO<sub>3</sub>/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ClNO<sub>3</sub> / Ratio @ Surface for Oct

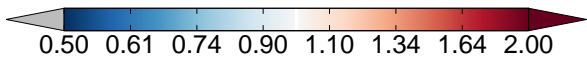
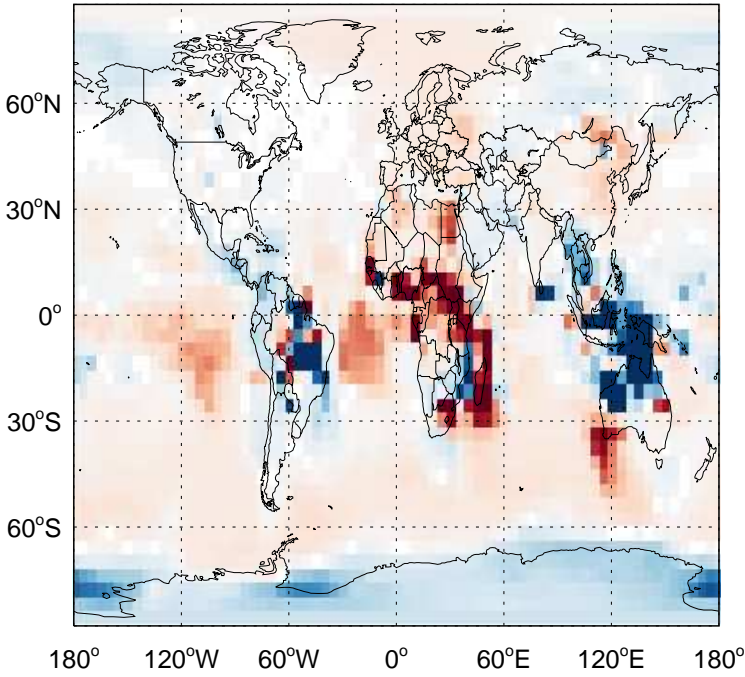


GC\_12.0.0 / v11-02e-Run1  
ClNO<sub>3</sub>/ Ratio @ 500 hPa for Oct

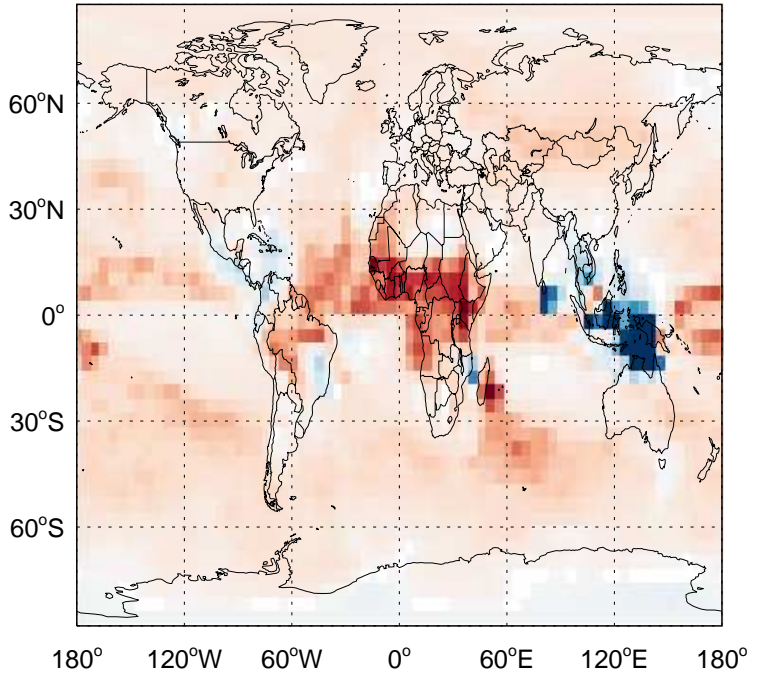


# GEOS-Chem Ratio Maps at surface and 500 hPa

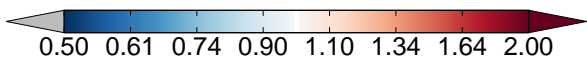
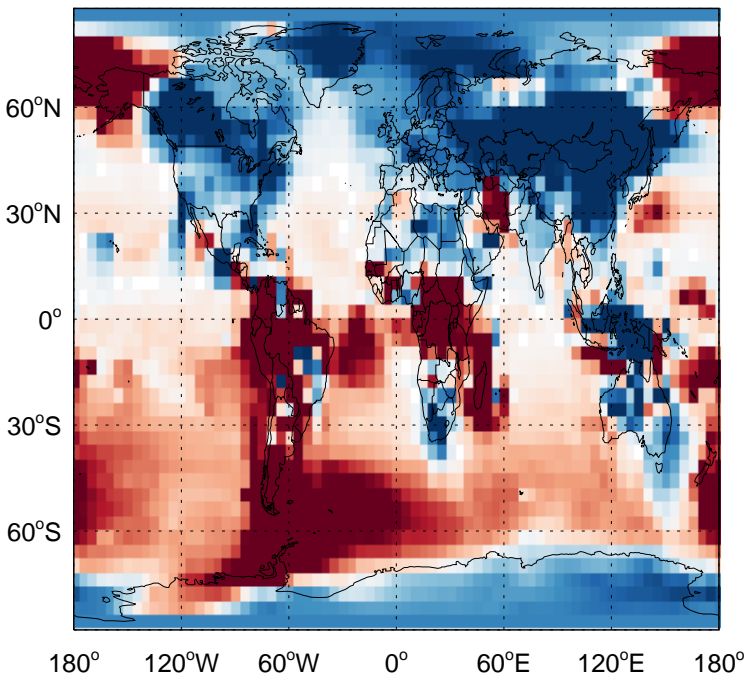
GC\_12.0.0 / v11-02f-Run1  
CINO2 / Ratio @ Surface for Oct



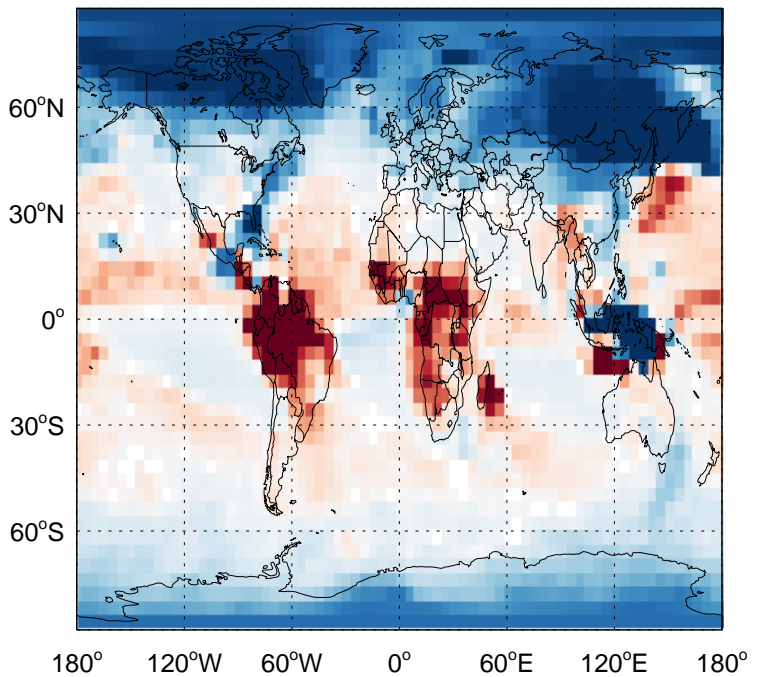
GC\_12.0.0 / v11-02f-Run1  
CINO2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
CINO2 / Ratio @ Surface for Oct



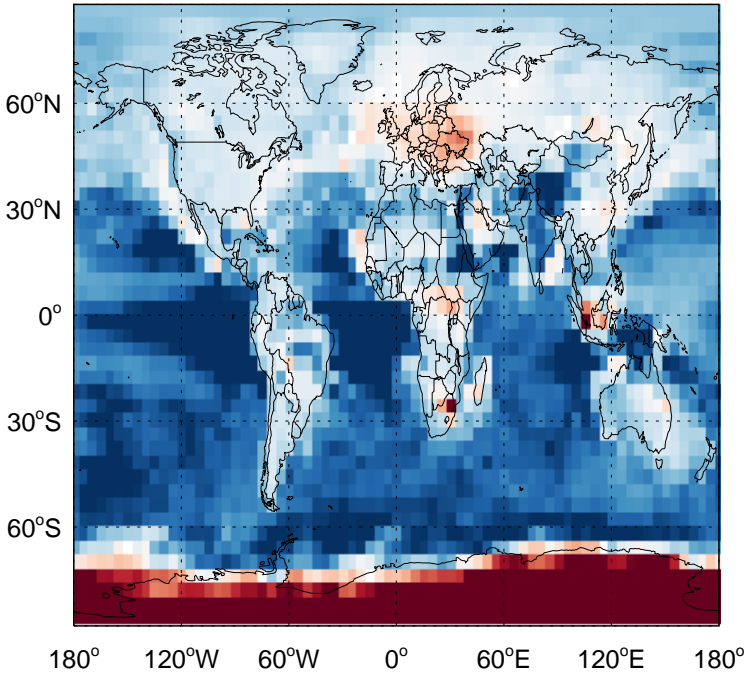
GC\_12.0.0 / v11-02e-Run1  
CINO2/ Ratio @ 500 hPa for Oct



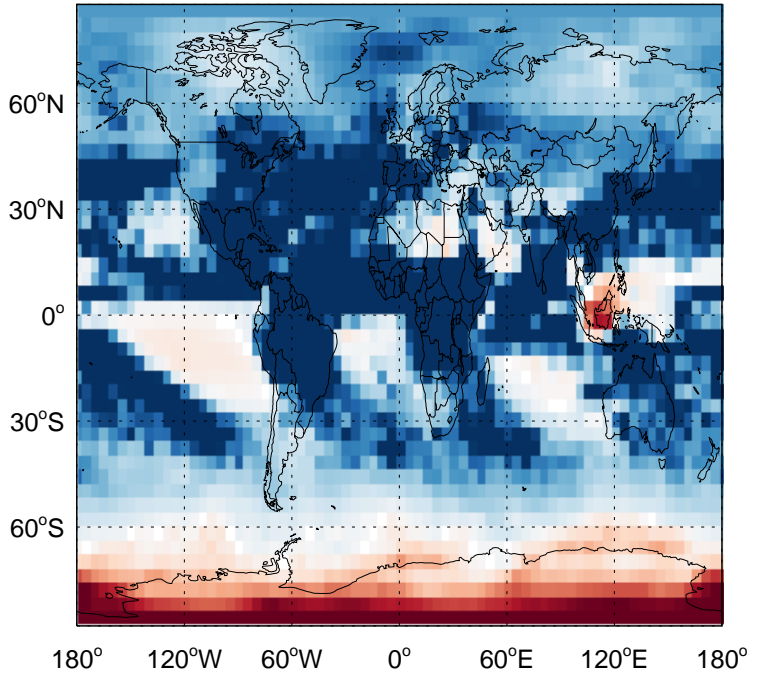


# GEOS-Chem Ratio Maps at surface and 500 hPa

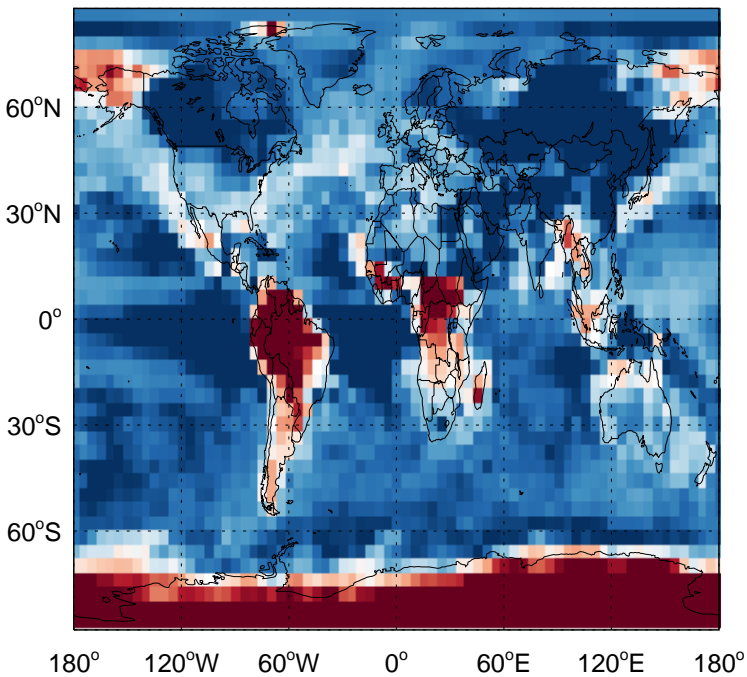
GC\_12.0.0 / v11-02f-Run1  
ClOO / Ratio @ Surface for Oct



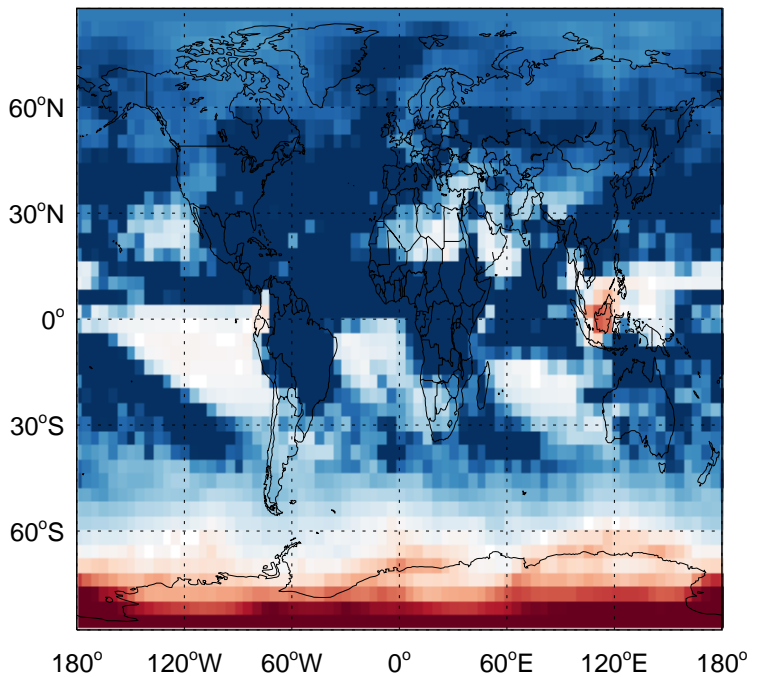
GC\_12.0.0 / v11-02f-Run1  
ClOO / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
ClOO / Ratio @ Surface for Oct

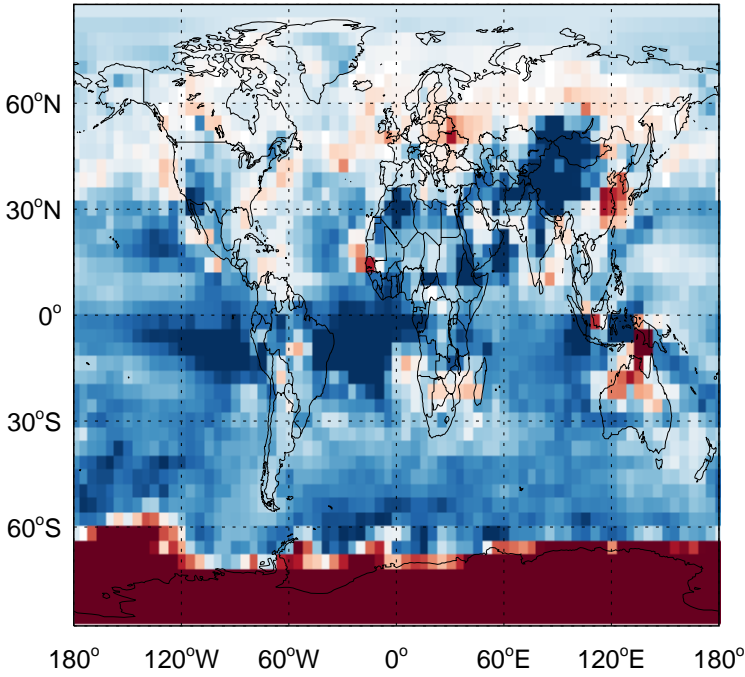


GC\_12.0.0 / v11-02e-Run1  
ClOO / Ratio @ 500 hPa for Oct

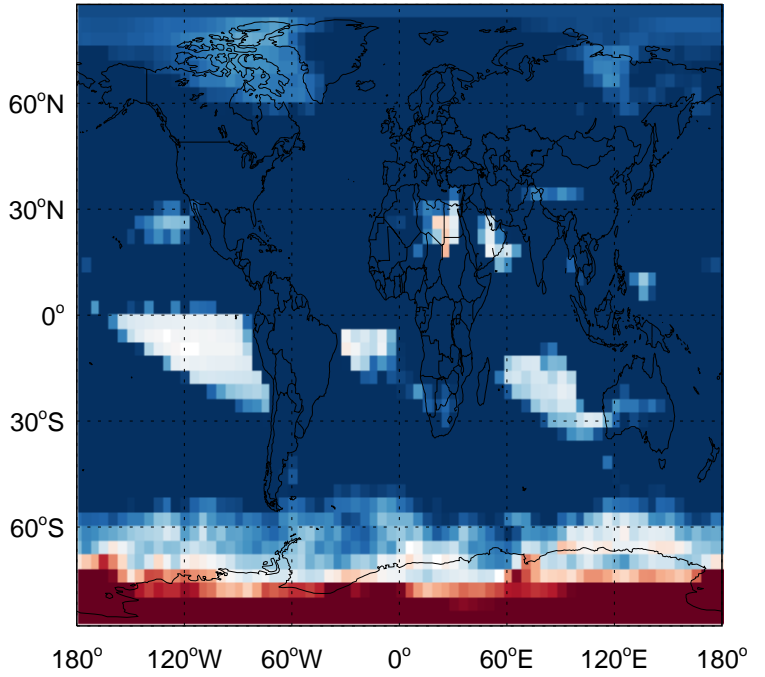


# GEOS-Chem Ratio Maps at surface and 500 hPa

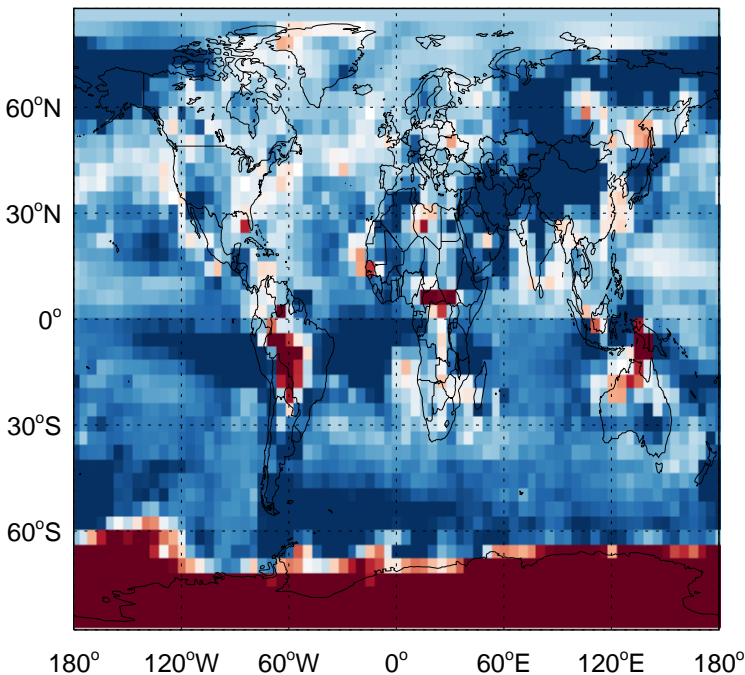
GC\_12.0.0 / v11-02f-Run1  
OCIO / Ratio @ Surface for Oct



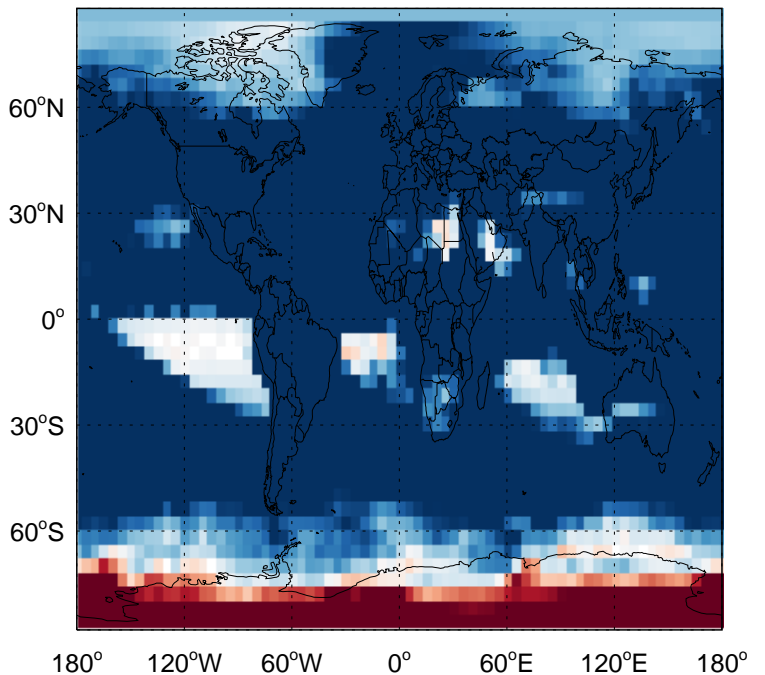
GC\_12.0.0 / v11-02f-Run1  
OCIO/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
OCIO / Ratio @ Surface for Oct

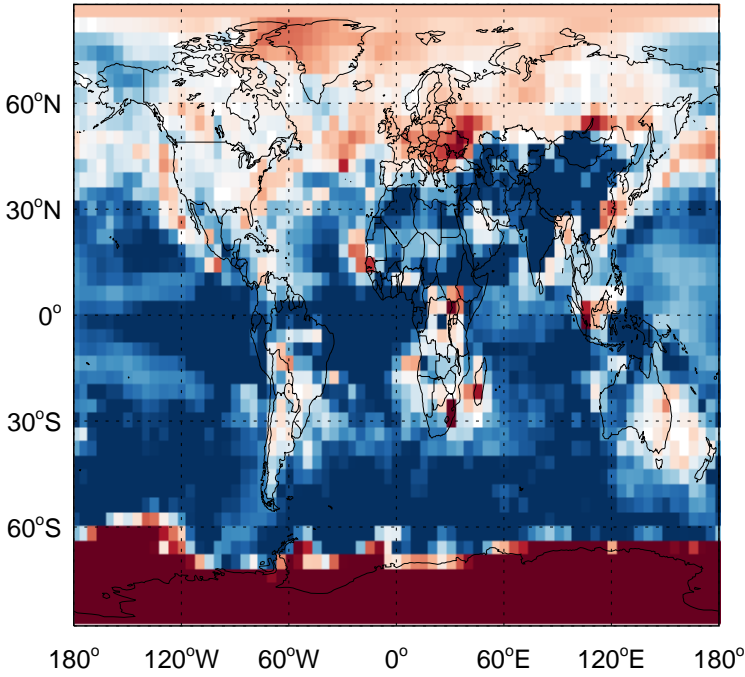


GC\_12.0.0 / v11-02e-Run1  
OCIO/ Ratio @ 500 hPa for Oct

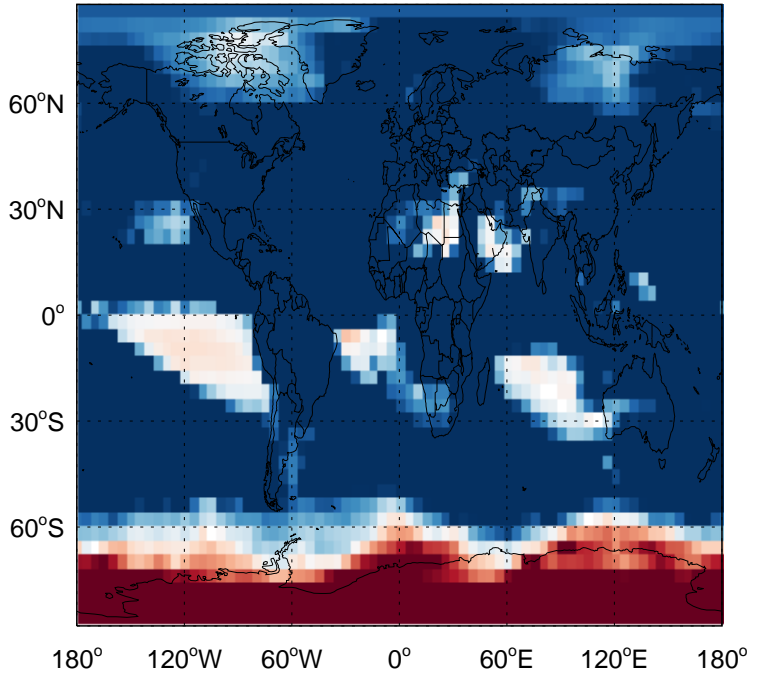


# GEOS-Chem Ratio Maps at surface and 500 hPa

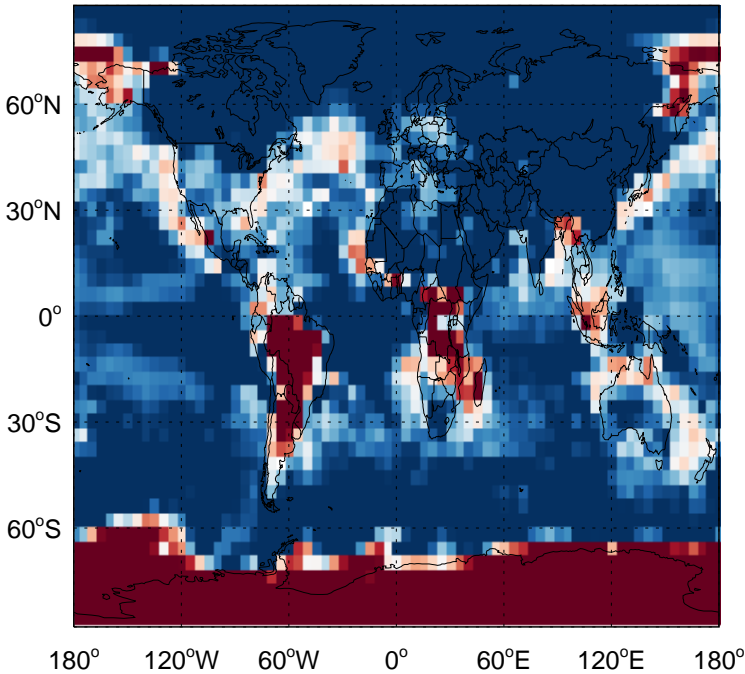
GC\_12.0.0 / v11-02f-Run1  
Cl2 / Ratio @ Surface for Oct



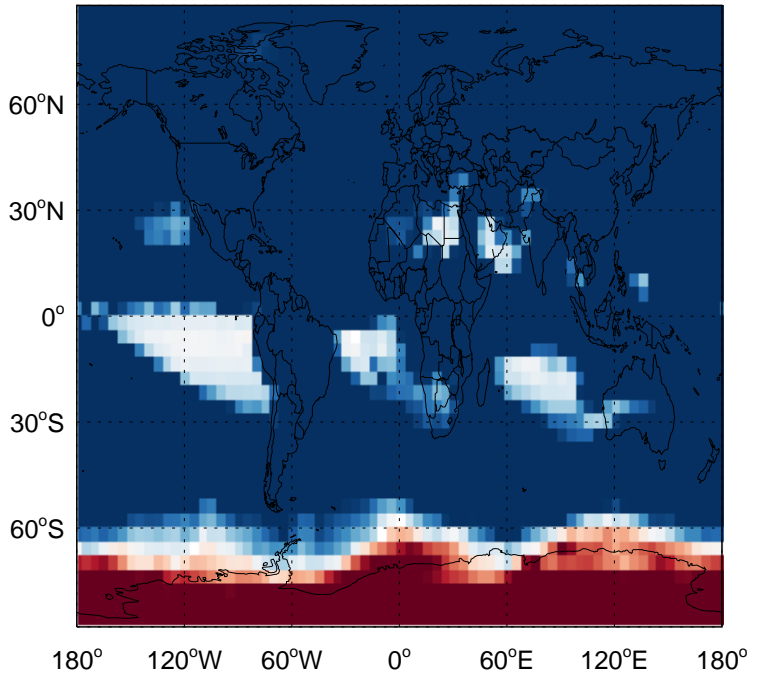
GC\_12.0.0 / v11-02f-Run1  
Cl2 / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
Cl2 / Ratio @ Surface for Oct

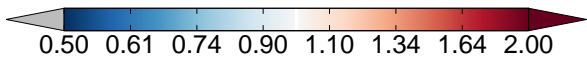
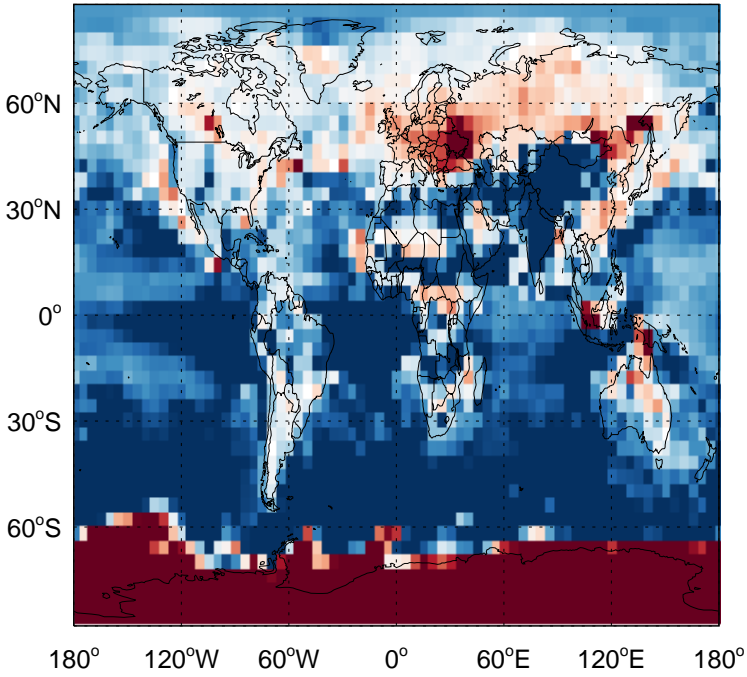


GC\_12.0.0 / v11-02e-Run1  
Cl2 / Ratio @ 500 hPa for Oct

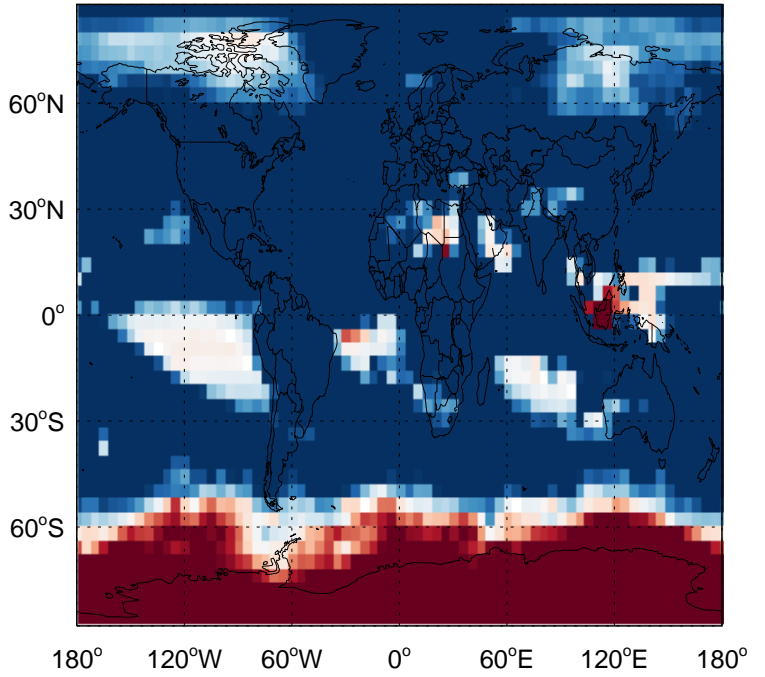


# GEOS-Chem Ratio Maps at surface and 500 hPa

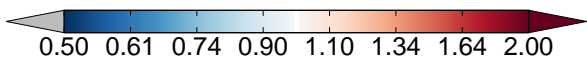
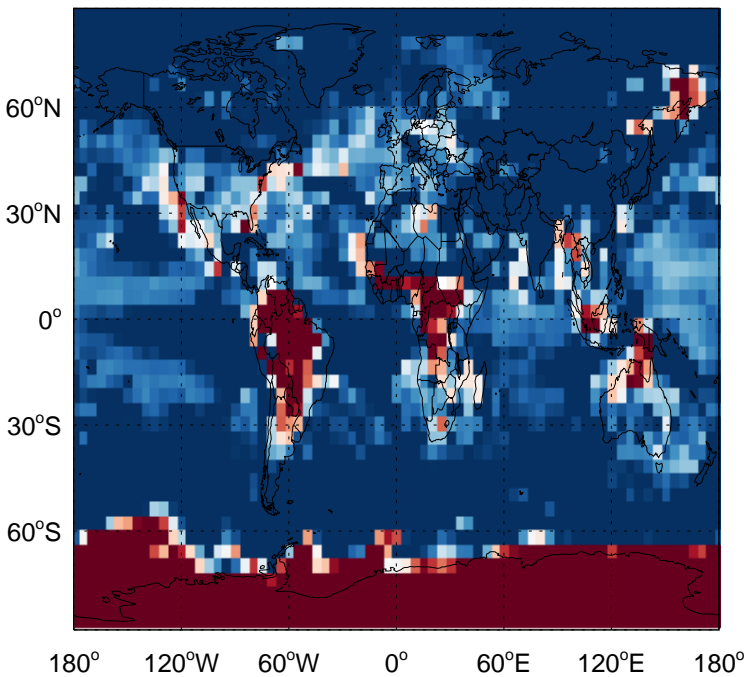
GC\_12.0.0 / v11-02f-Run1  
Cl2O2 / Ratio @ Surface for Oct



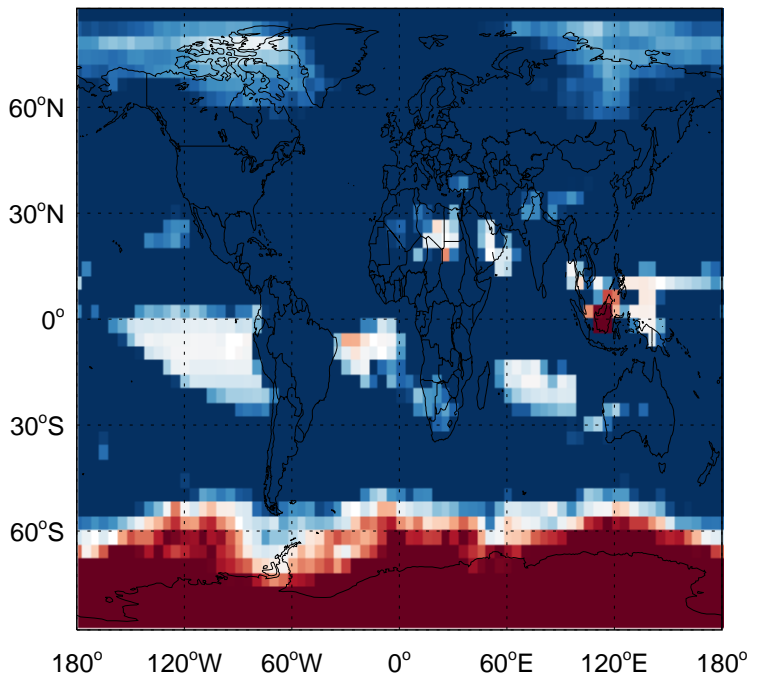
GC\_12.0.0 / v11-02f-Run1  
Cl2O2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
Cl2O2 / Ratio @ Surface for Oct



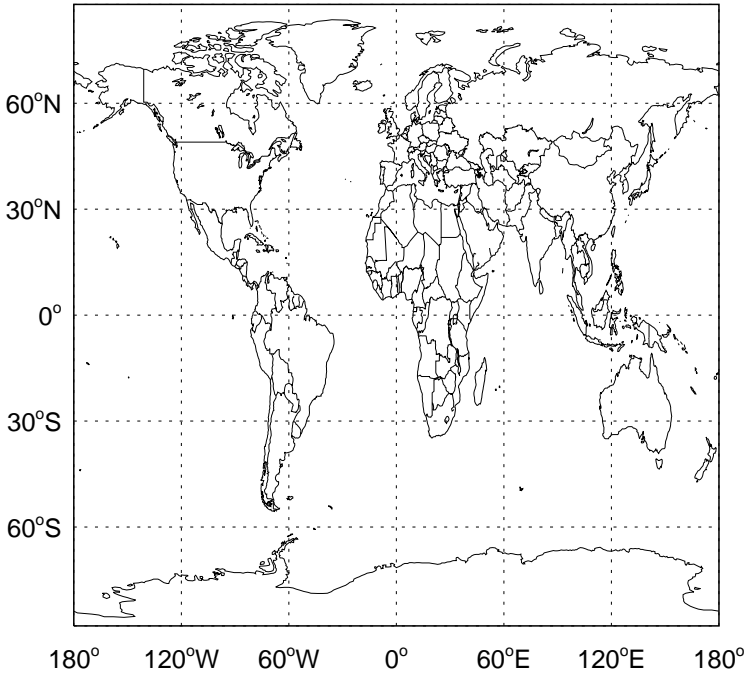
GC\_12.0.0 / v11-02e-Run1  
Cl2O2/ Ratio @ 500 hPa for Oct





# GEOS-Chem Ratio Maps at surface and 500 hPa

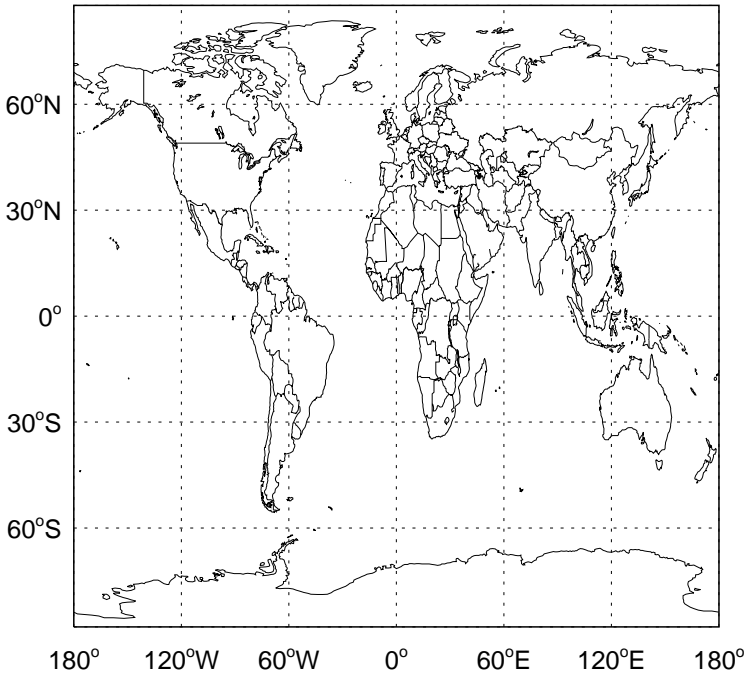
GC\_12.0.0 / v11-02f-Run1  
H2O / Ratio @ Surface for Oct



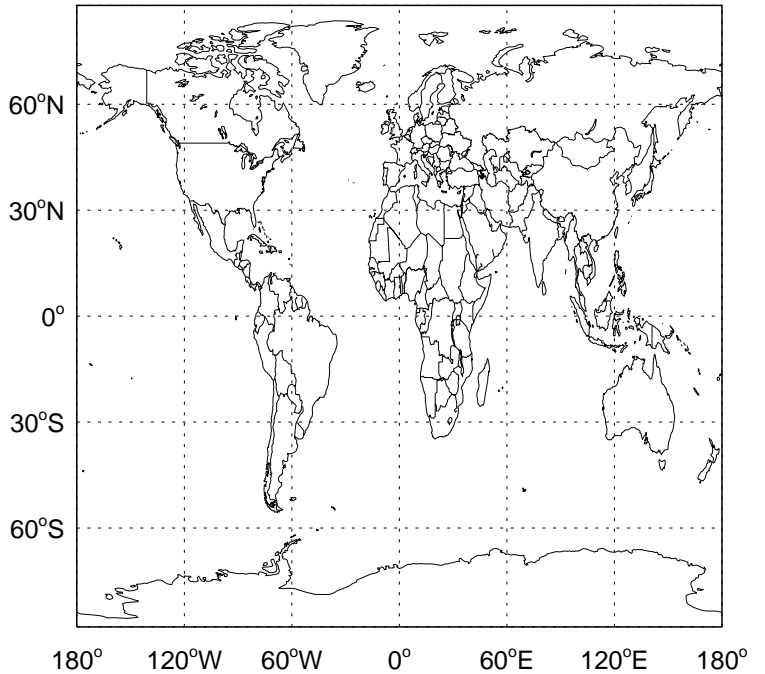
GC\_12.0.0 / v11-02f-Run1  
H2O/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
H2O / Ratio @ Surface for Oct

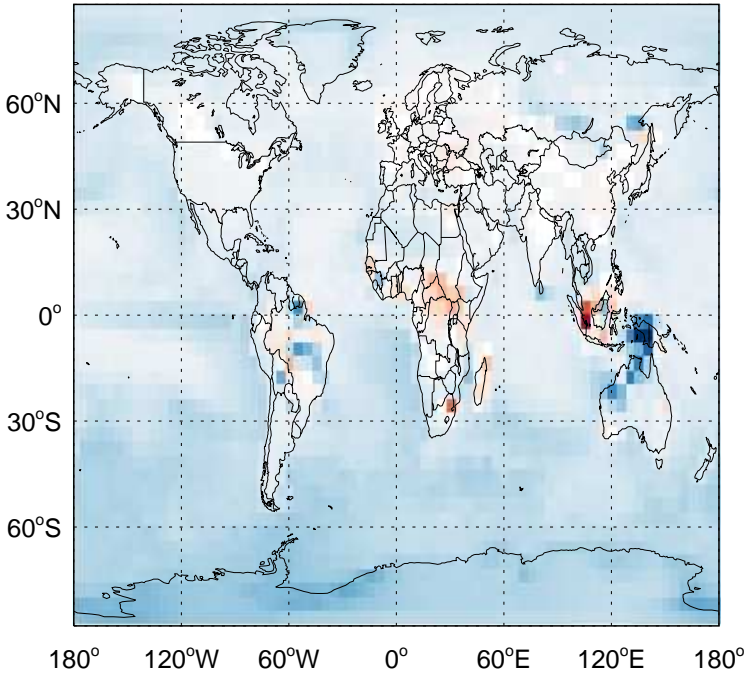


GC\_12.0.0 / v11-02e-Run1  
H2O/ Ratio @ 500 hPa for Oct

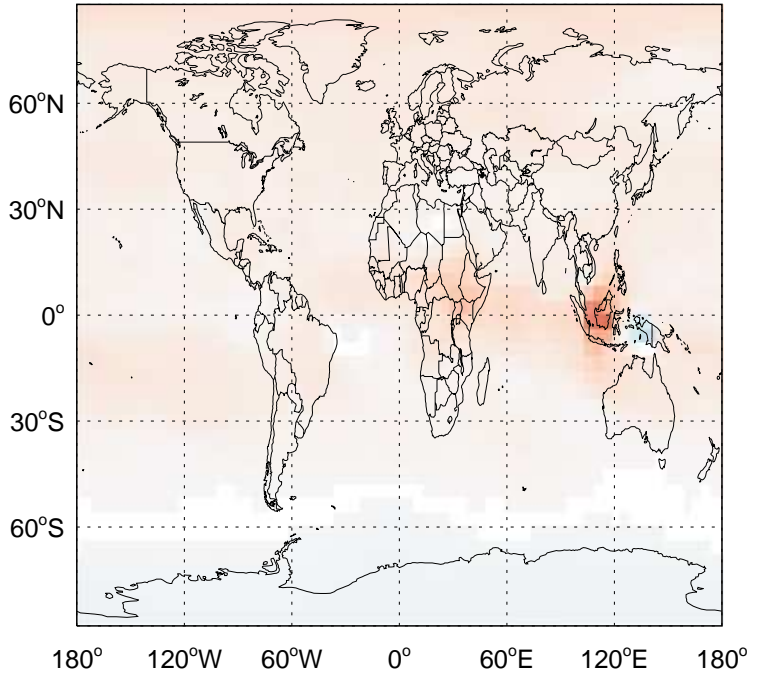


# GEOS-Chem Ratio Maps at surface and 500 hPa

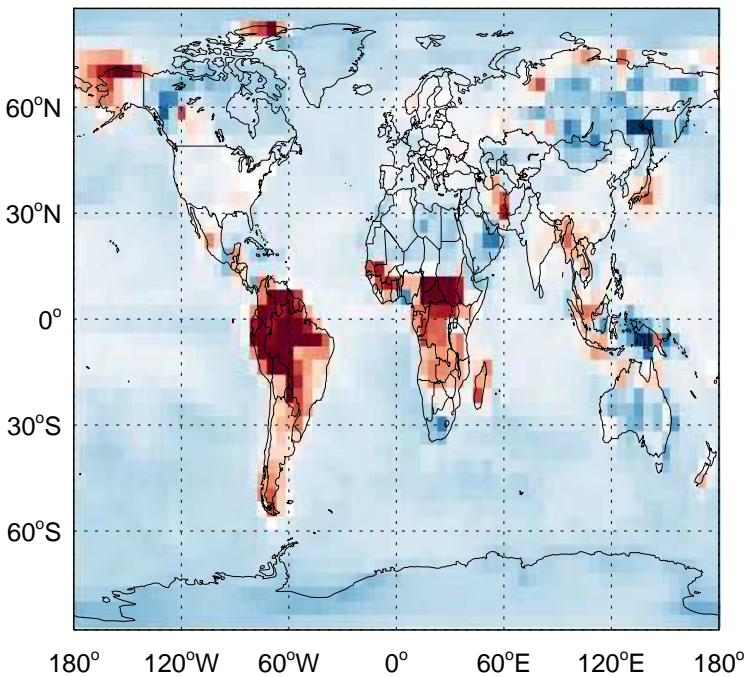
GC\_12.0.0 / v11-02f-Run1  
OH / Ratio @ Surface for Oct



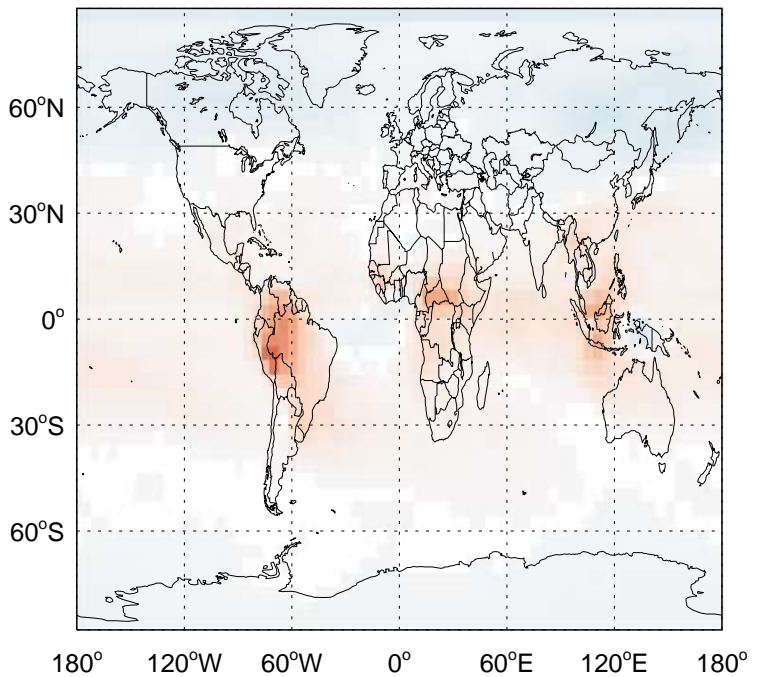
GC\_12.0.0 / v11-02f-Run1  
OH / Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
OH / Ratio @ Surface for Oct

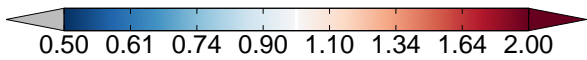
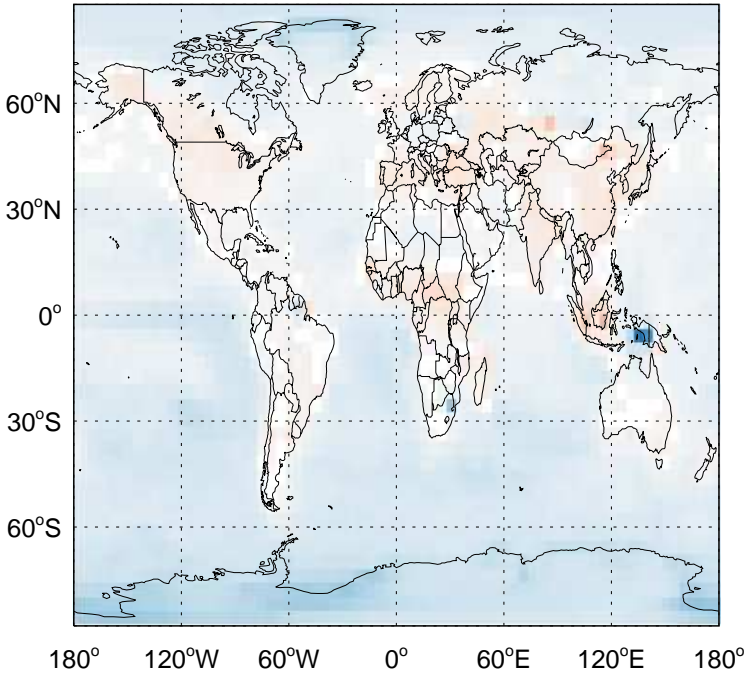


GC\_12.0.0 / v11-02e-Run1  
OH / Ratio @ 500 hPa for Oct

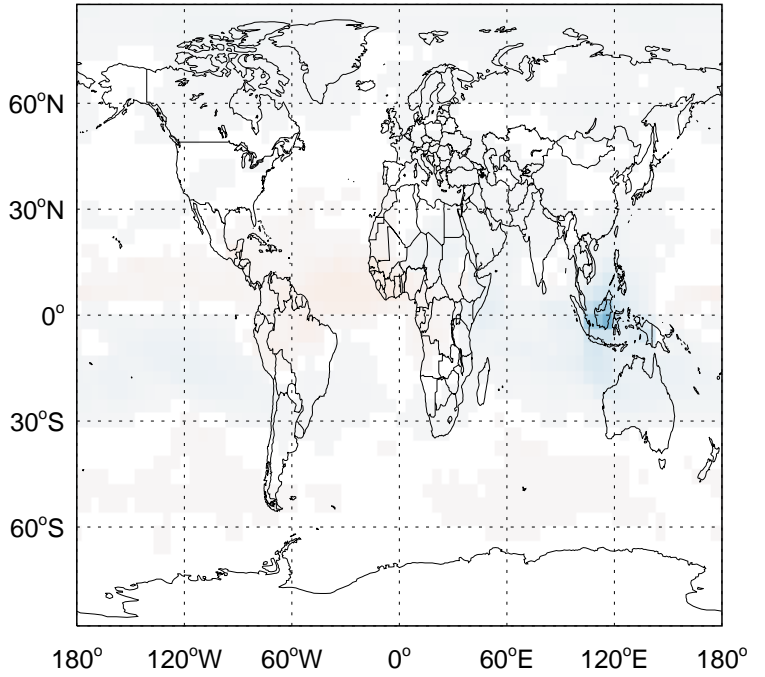


# GEOS-Chem Ratio Maps at surface and 500 hPa

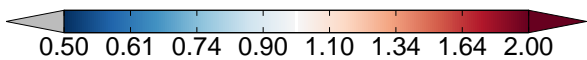
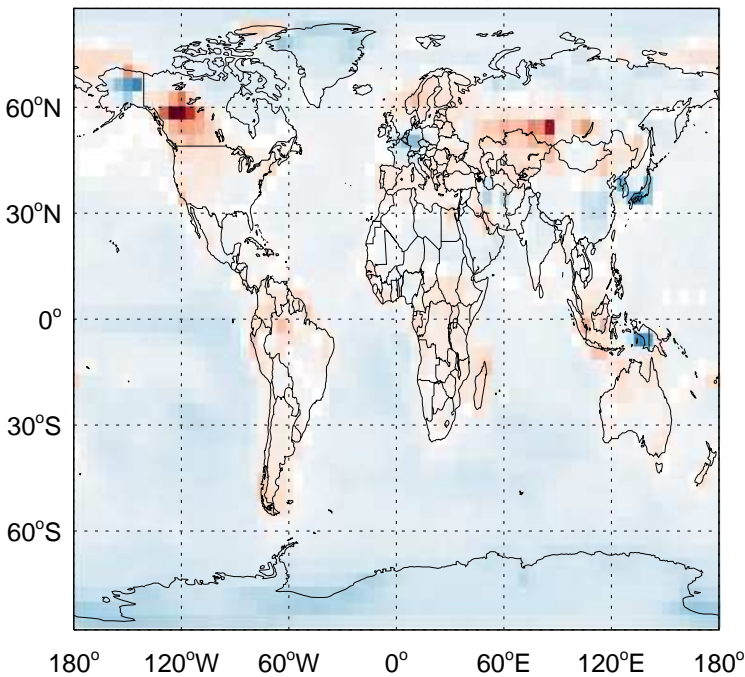
GC\_12.0.0 / v11-02f-Run1  
HO2 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02f-Run1  
HO2/ Ratio @ 500 hPa for Oct



GC\_12.0.0 / v11-02e-Run1  
HO2 / Ratio @ Surface for Oct



GC\_12.0.0 / v11-02e-Run1  
HO2/ Ratio @ 500 hPa for Oct

