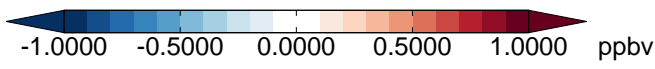
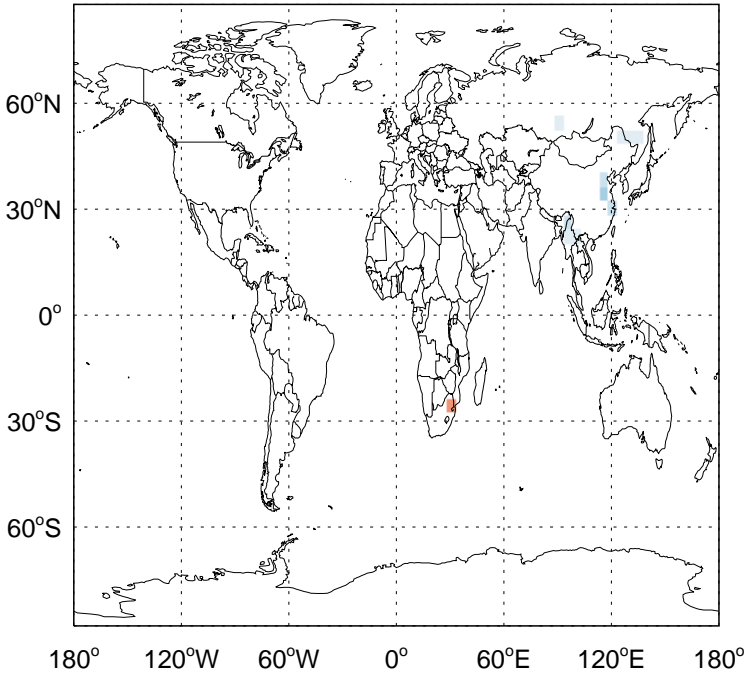
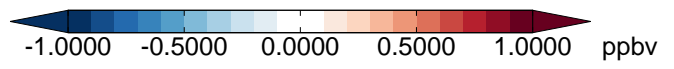


# GEOS-Chem Difference Maps at surface and 500 hPa

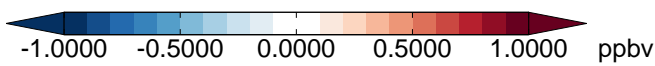
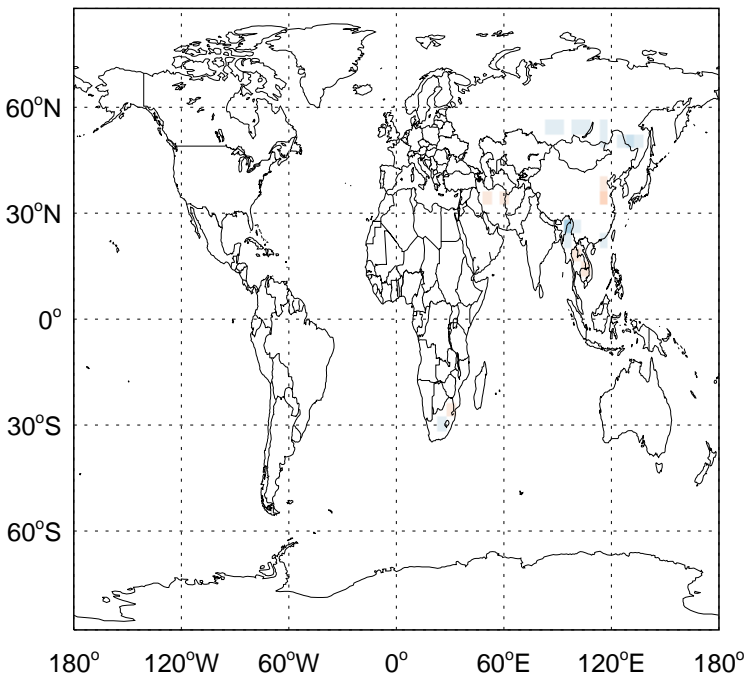
GC\_12.0.0 - v11-02f-Run1  
NO - Diff @ Surface for Apr



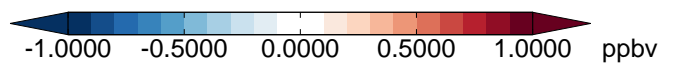
GC\_12.0.0 - v11-02f-Run1  
NO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NO - Diff @ Surface for Apr



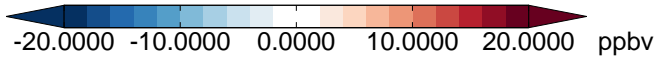
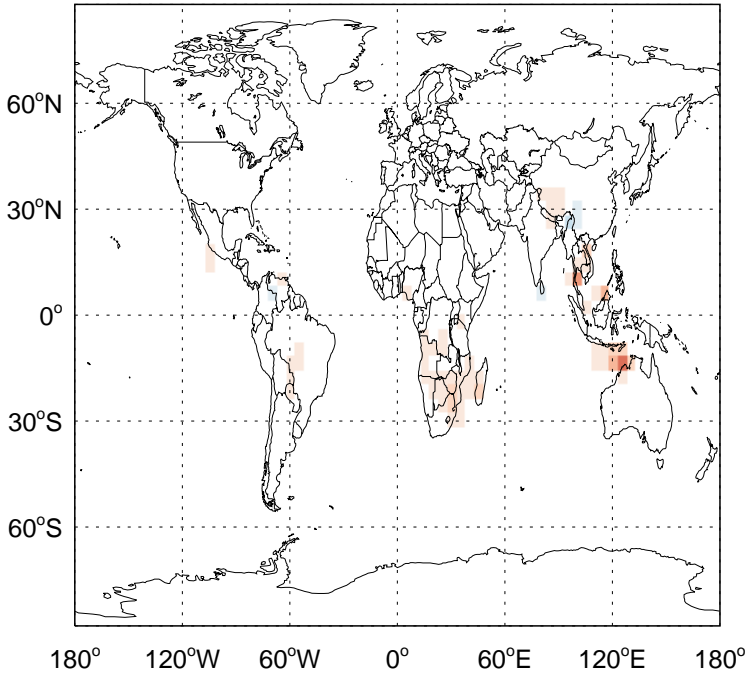
GC\_12.0.0 - v11-02e-Run1  
NO- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

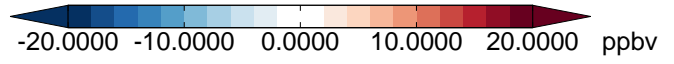
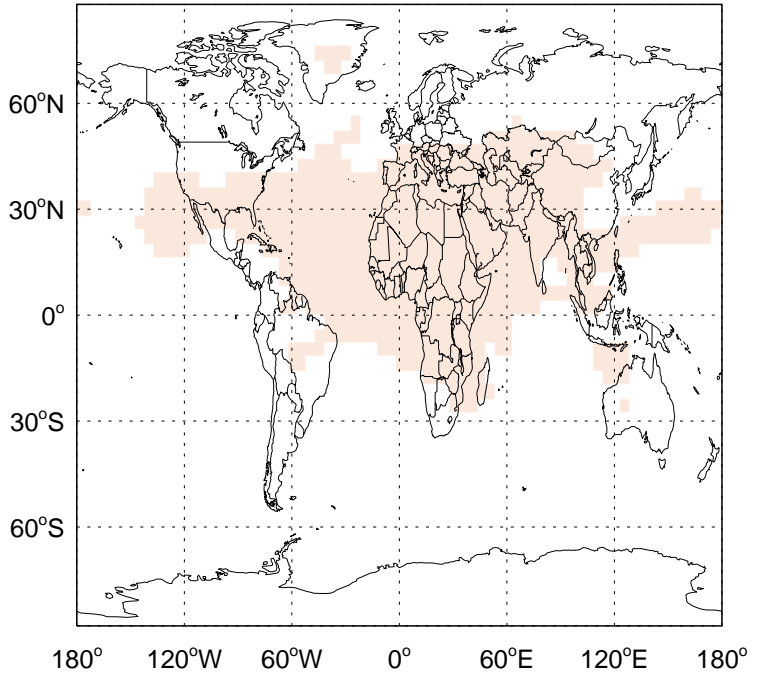
GC\_12.0.0 - v11-02f-Run1

O3 - Diff @ Surface for Apr



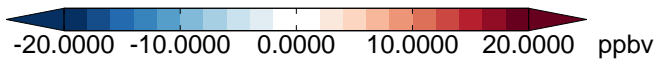
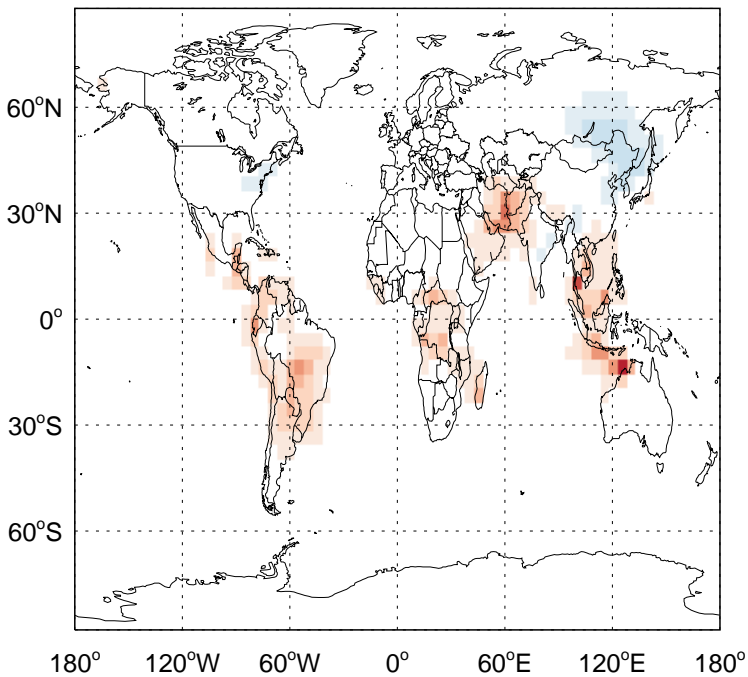
GC\_12.0.0 - v11-02f-Run1

O3- Diff @ 500 hPa for Apr



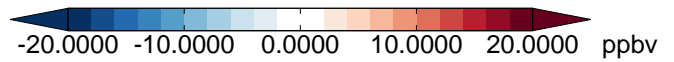
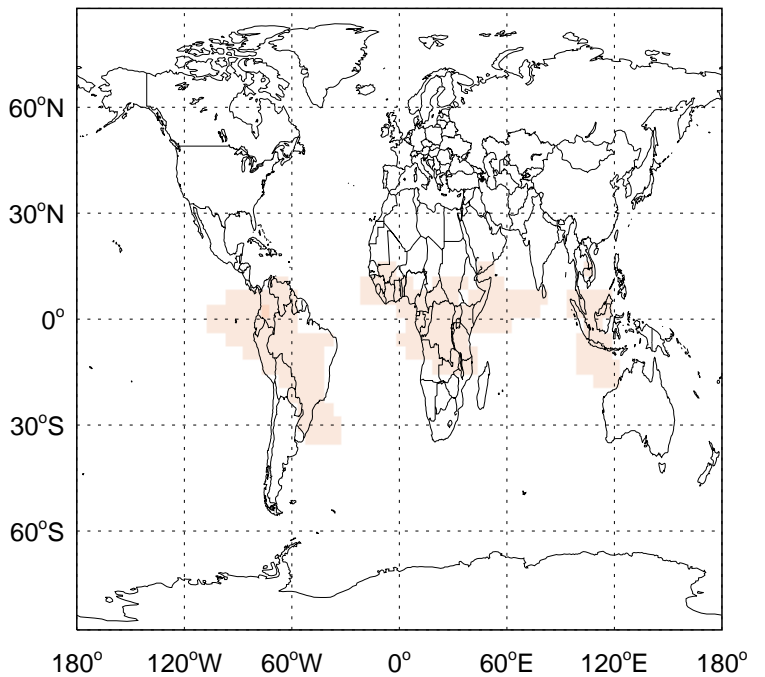
GC\_12.0.0 - v11-02e-Run1

O3 - Diff @ Surface for Apr



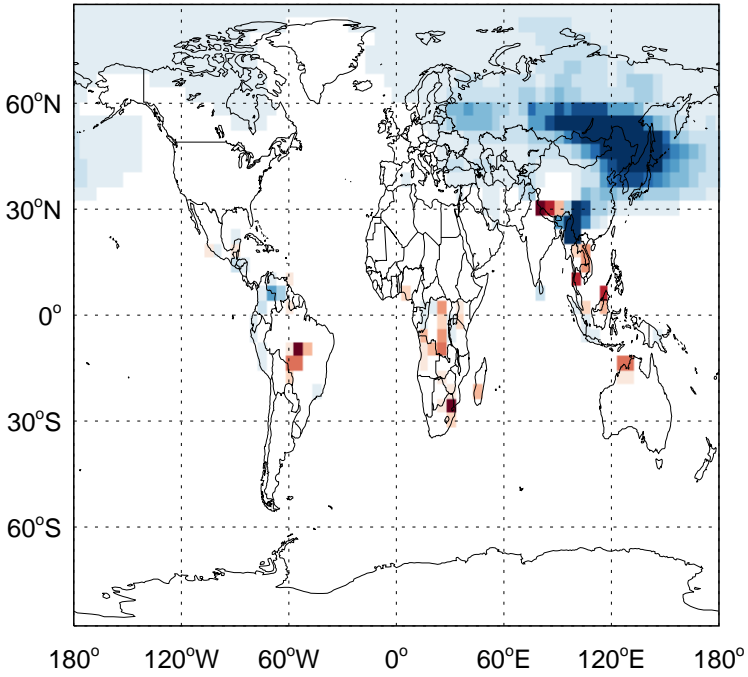
GC\_12.0.0 - v11-02e-Run1

O3- Diff @ 500 hPa for Apr

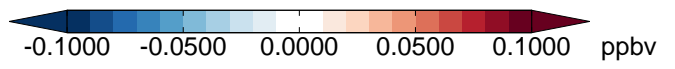
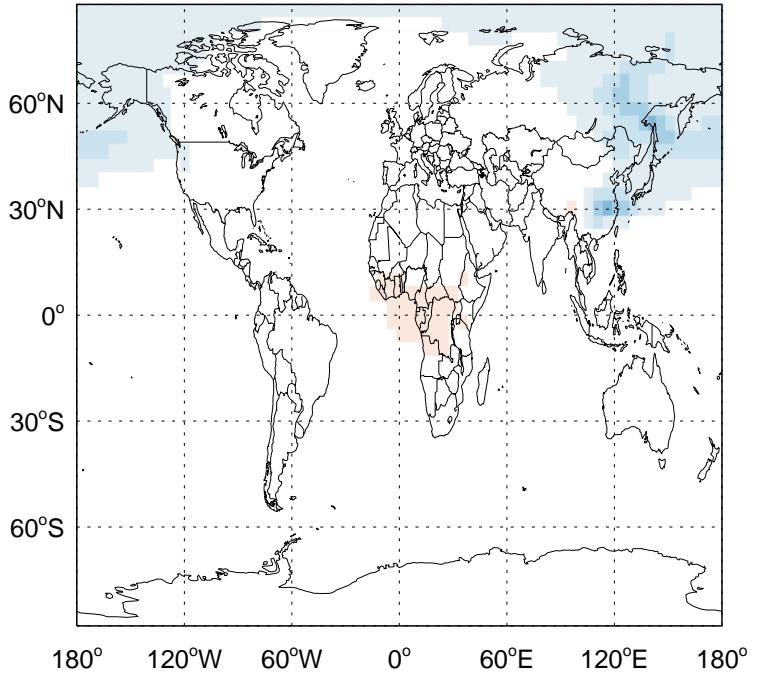


# GEOS-Chem Difference Maps at surface and 500 hPa

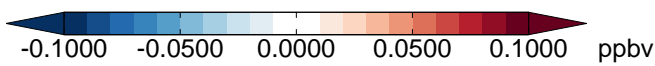
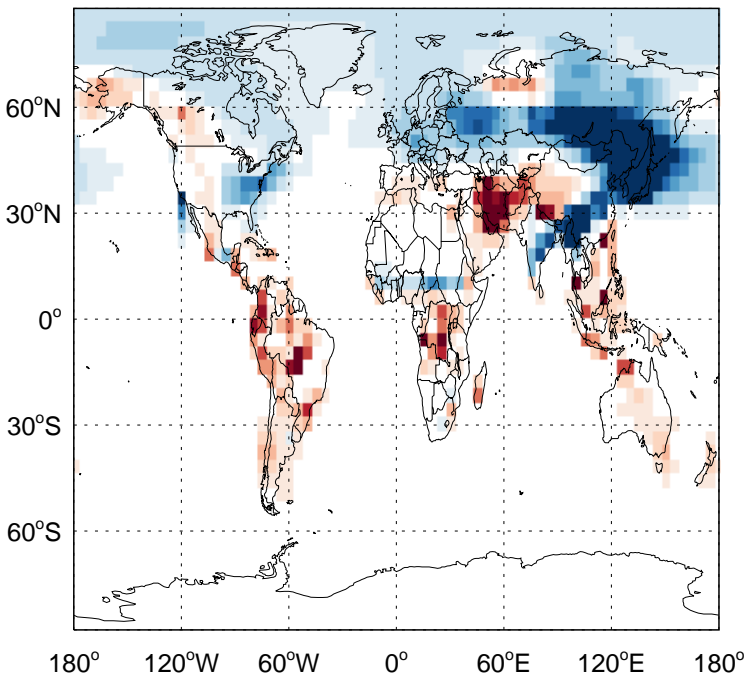
GC\_12.0.0 - v11-02f-Run1  
PAN - Diff @ Surface for Apr



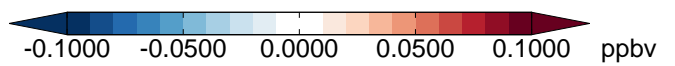
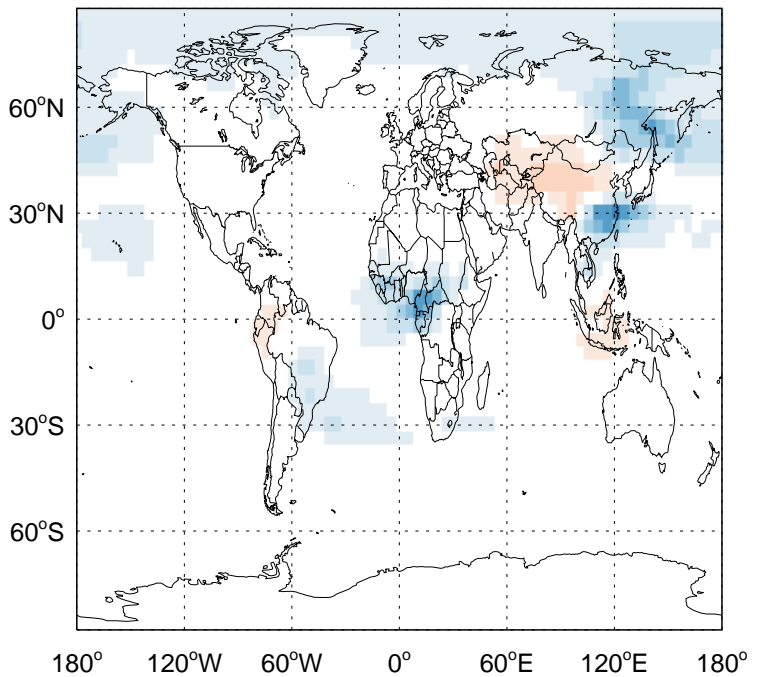
GC\_12.0.0 - v11-02f-Run1  
PAN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
PAN - Diff @ Surface for Apr

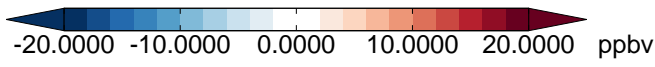
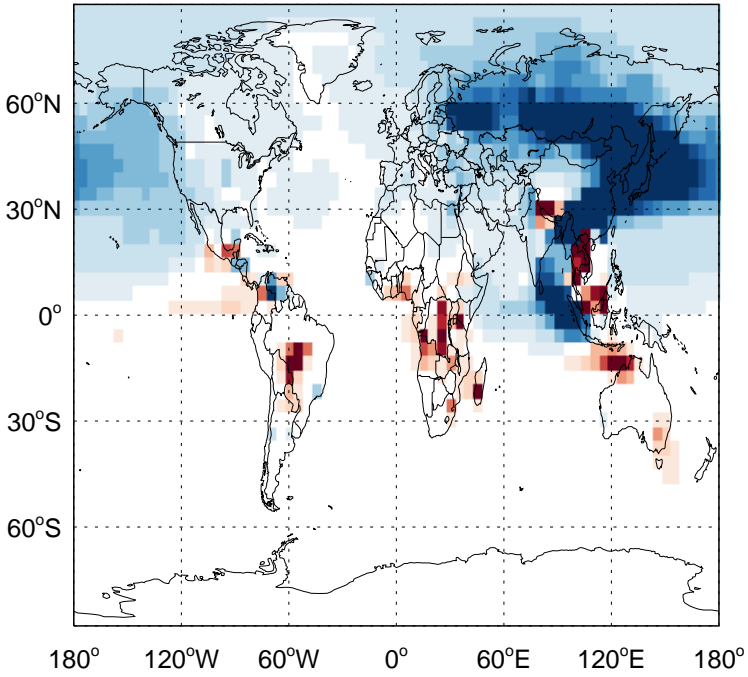


GC\_12.0.0 - v11-02e-Run1  
PAN- Diff @ 500 hPa for Apr

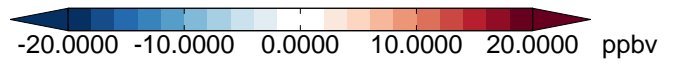
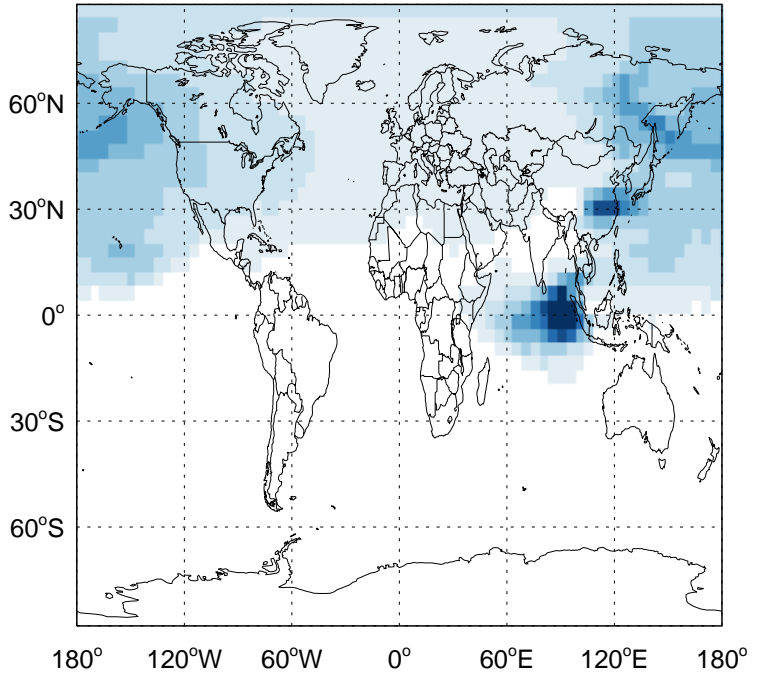


# GEOS-Chem Difference Maps at surface and 500 hPa

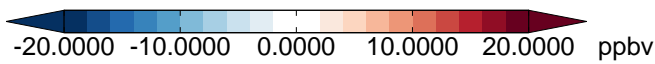
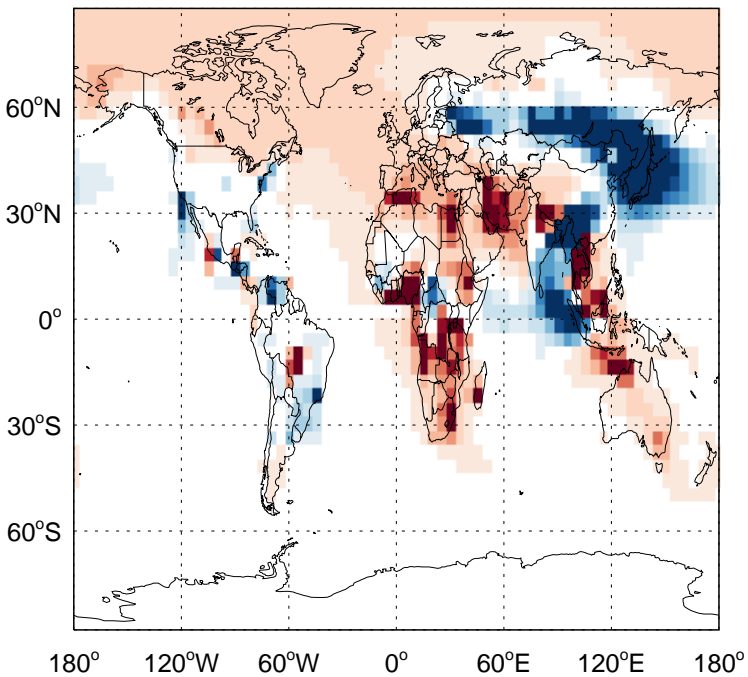
GC\_12.0.0 - v11-02f-Run1  
CO - Diff @ Surface for Apr



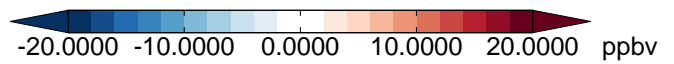
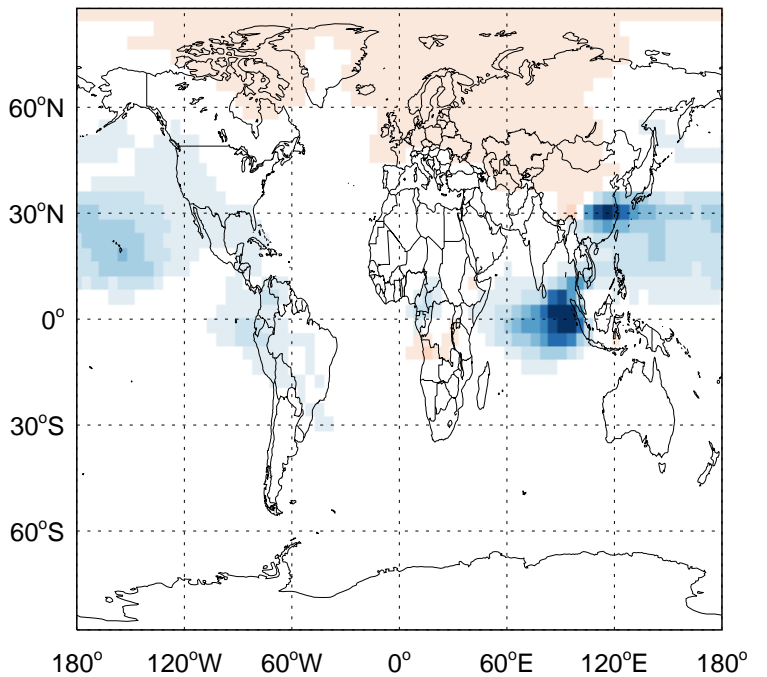
GC\_12.0.0 - v11-02f-Run1  
CO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CO - Diff @ Surface for Apr

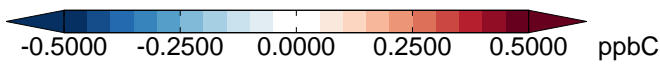
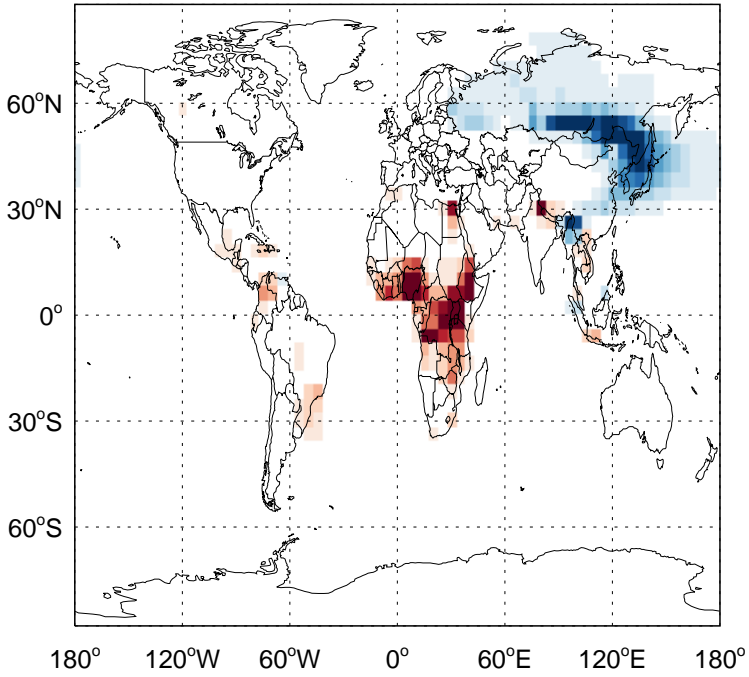


GC\_12.0.0 - v11-02e-Run1  
CO- Diff @ 500 hPa for Apr

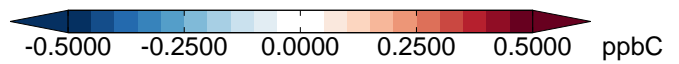
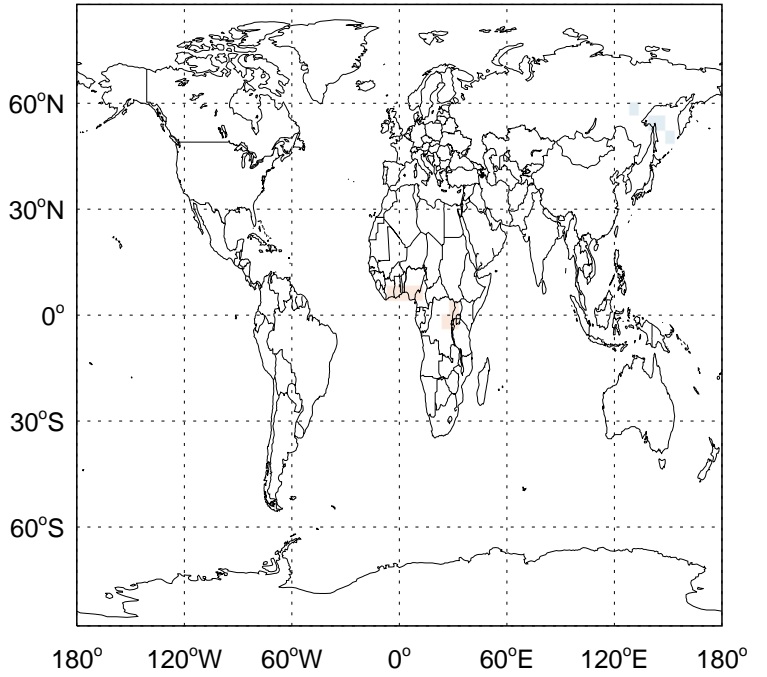


# GEOS-Chem Difference Maps at surface and 500 hPa

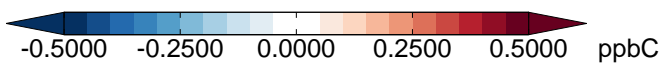
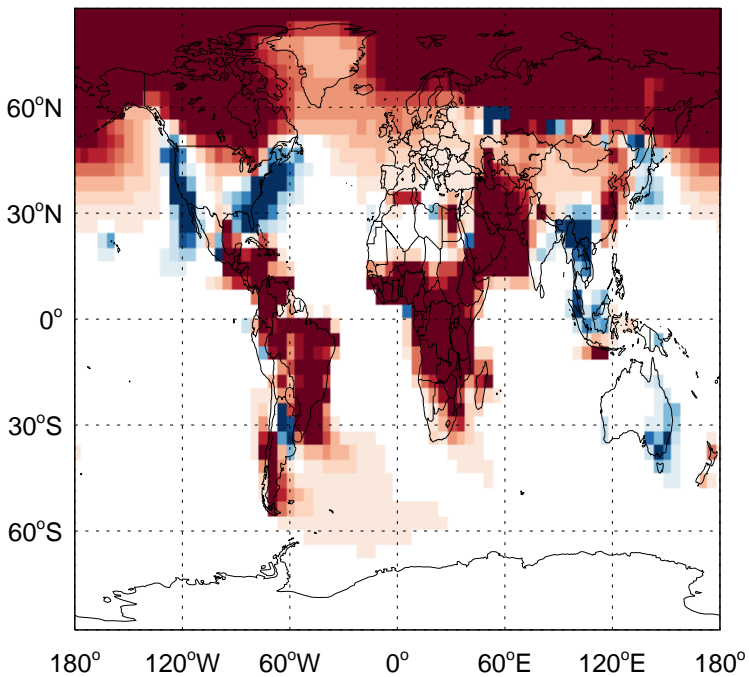
GC\_12.0.0 - v11-02f-Run1  
ALK4 - Diff @ Surface for Apr



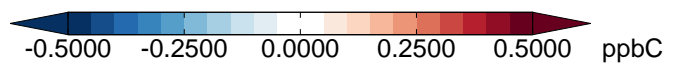
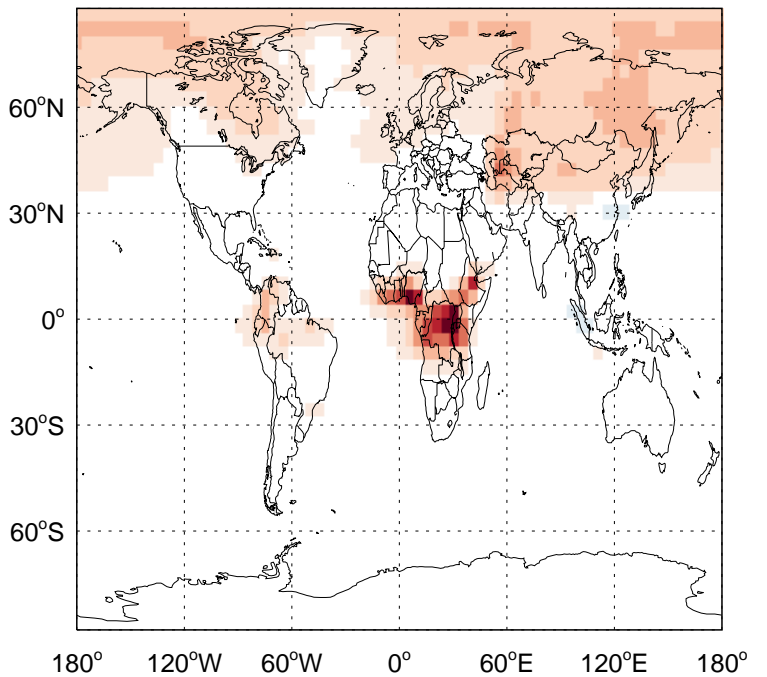
GC\_12.0.0 - v11-02f-Run1  
ALK4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ALK4 - Diff @ Surface for Apr

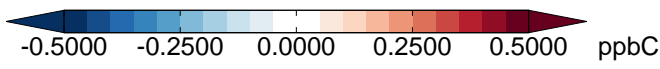
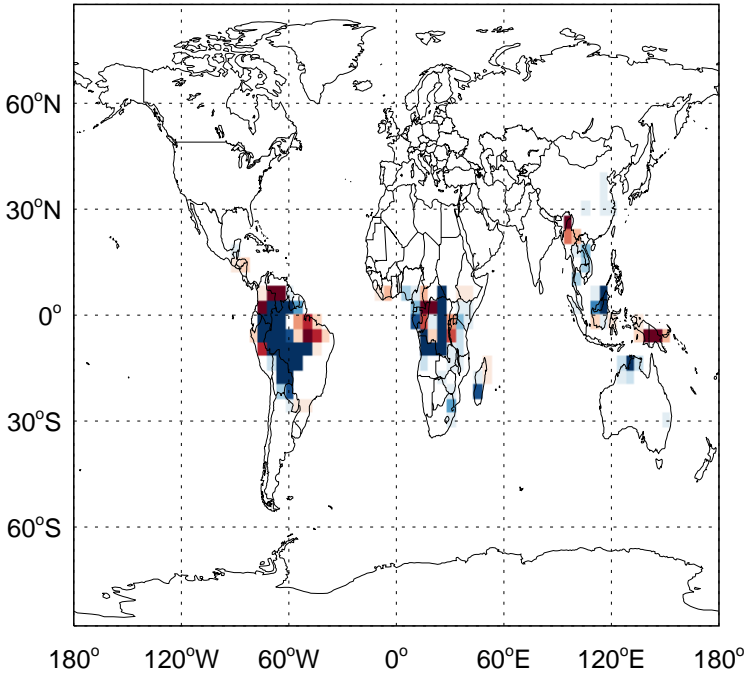


GC\_12.0.0 - v11-02e-Run1  
ALK4- Diff @ 500 hPa for Apr

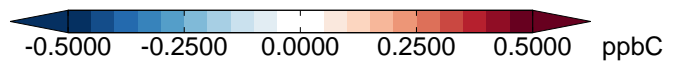
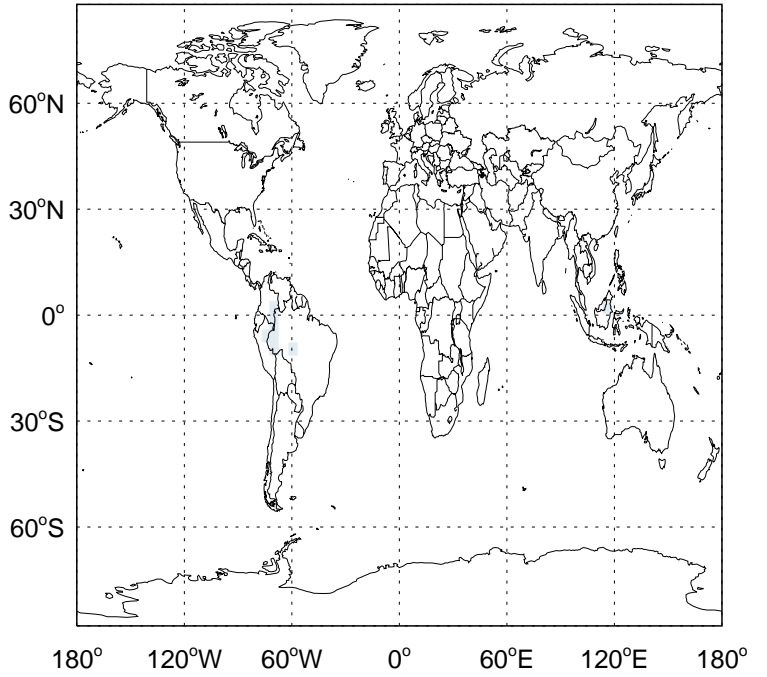


# GEOS-Chem Difference Maps at surface and 500 hPa

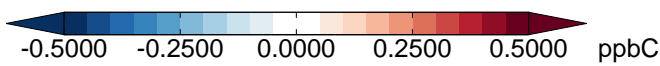
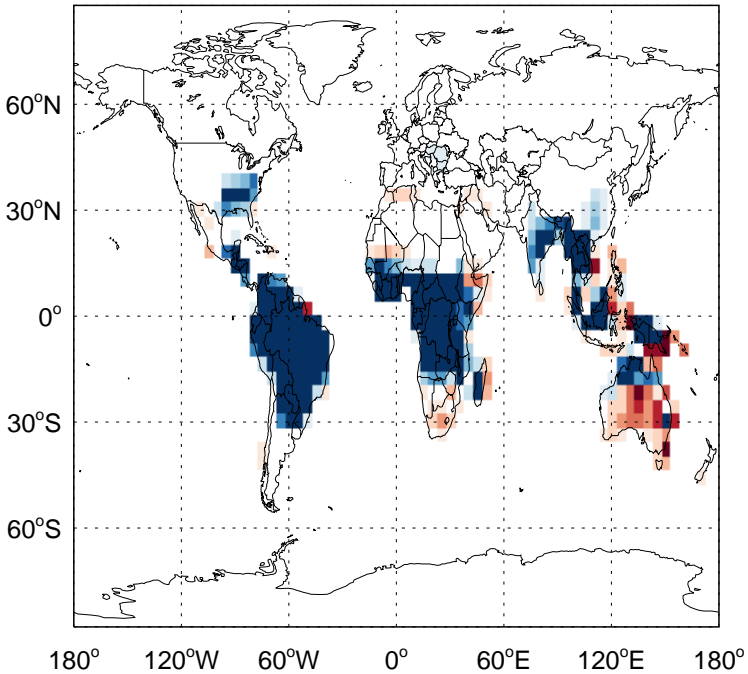
GC\_12.0.0 - v11-02f-Run1  
ISOP - Diff @ Surface for Apr



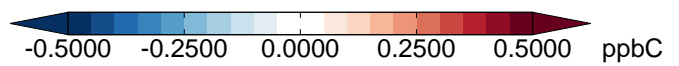
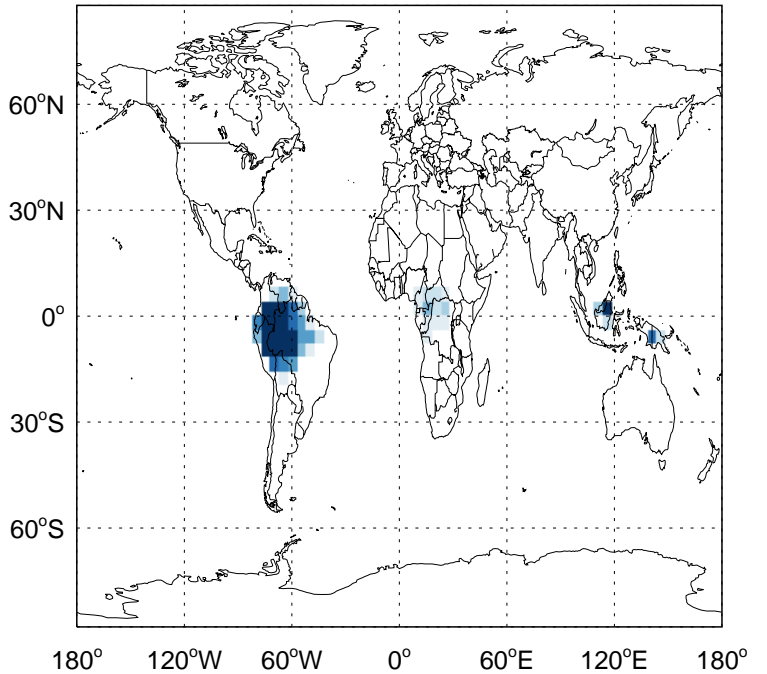
GC\_12.0.0 - v11-02f-Run1  
ISOP- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOP - Diff @ Surface for Apr

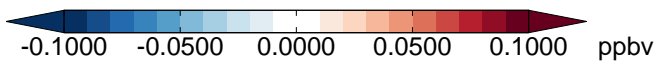
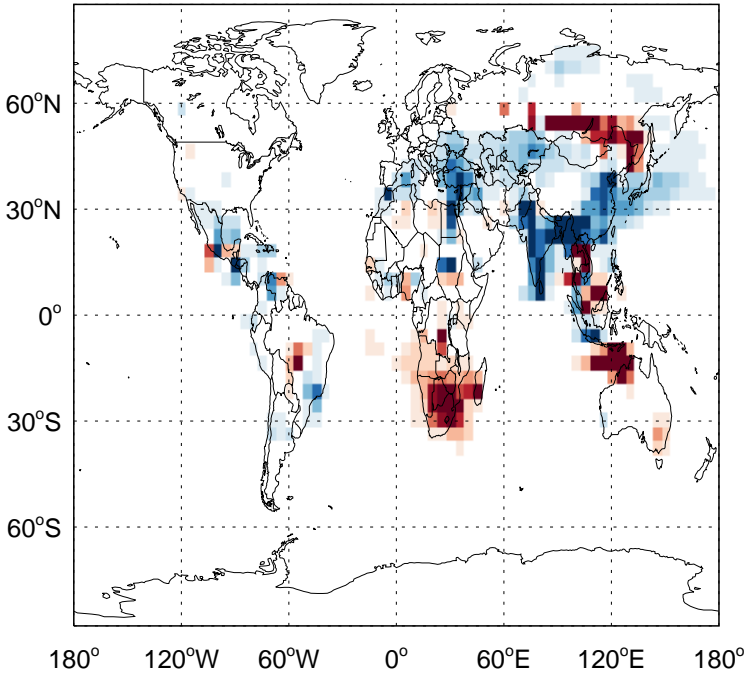


GC\_12.0.0 - v11-02e-Run1  
ISOP- Diff @ 500 hPa for Apr

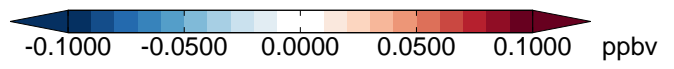
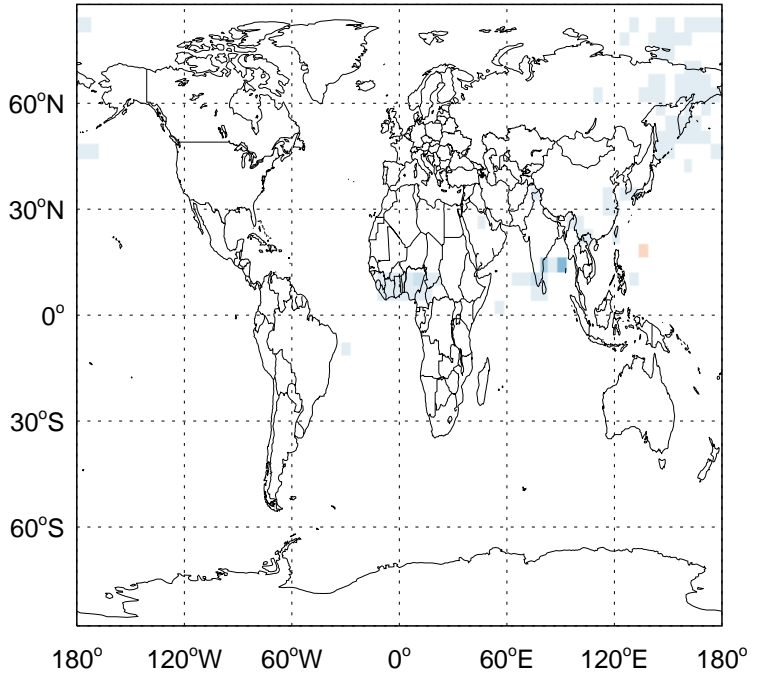


# GEOS-Chem Difference Maps at surface and 500 hPa

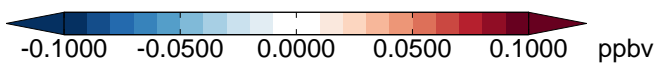
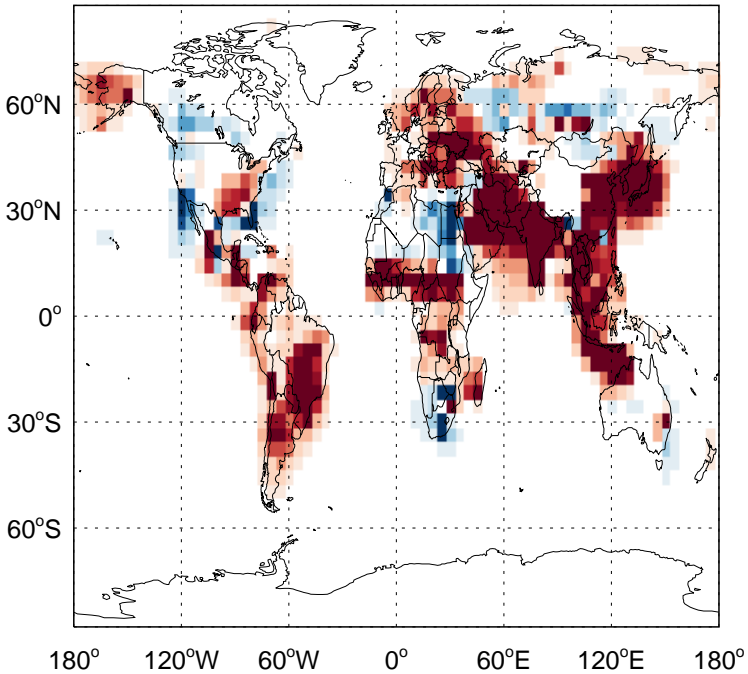
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>3</sub> - Diff @ Surface for Apr



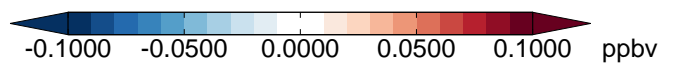
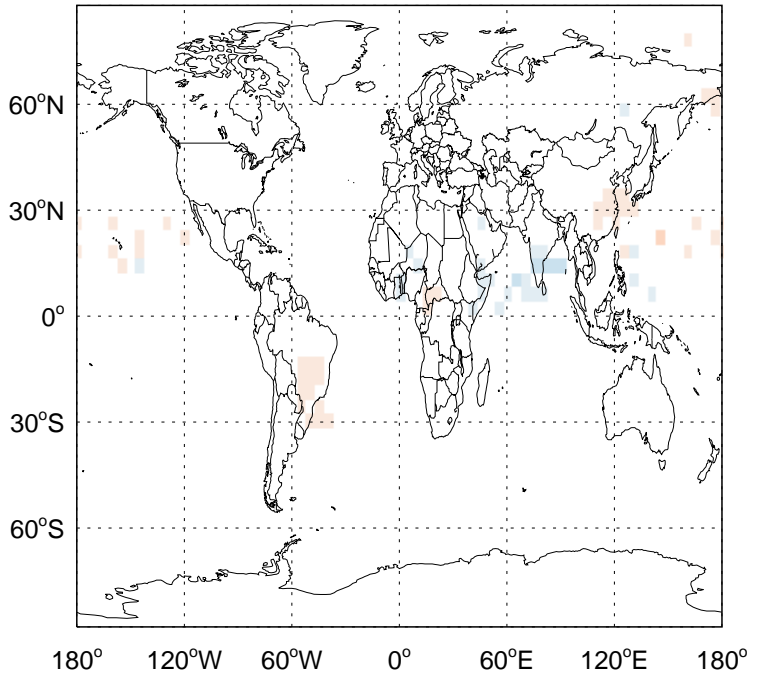
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>3</sub>- Diff @ 500 hPa for Apr



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

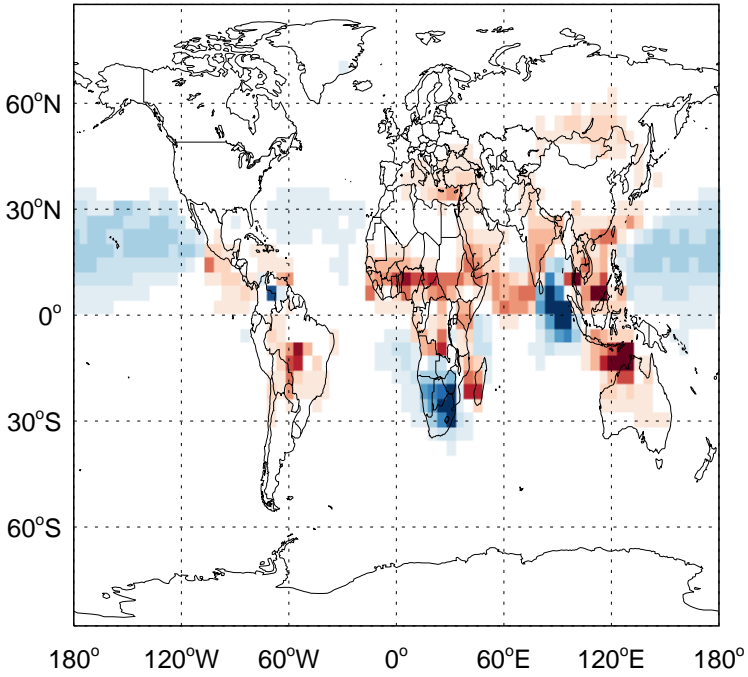


GC\_12.0.0 - v11-02e-Run1  
HNO<sub>3</sub>- Diff @ 500 hPa for Apr

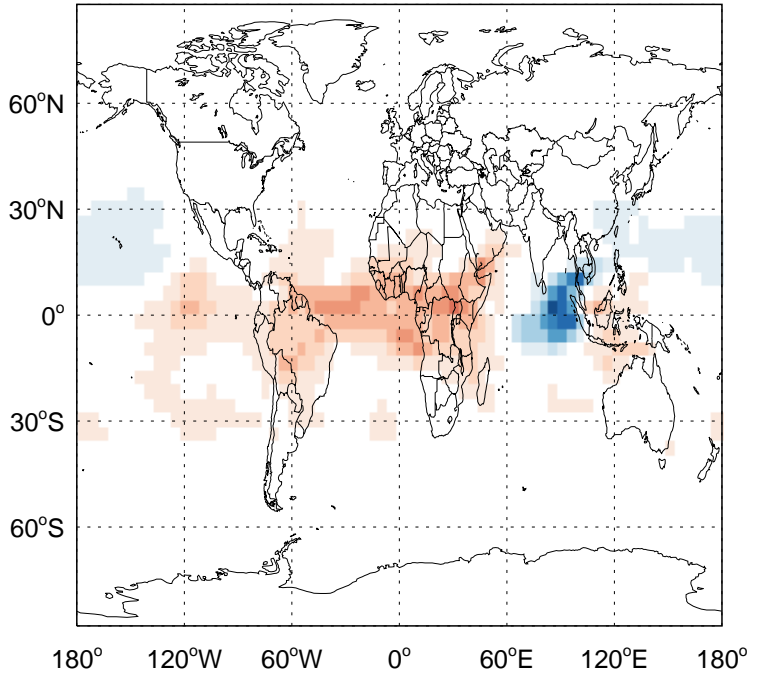


# GEOS-Chem Difference Maps at surface and 500 hPa

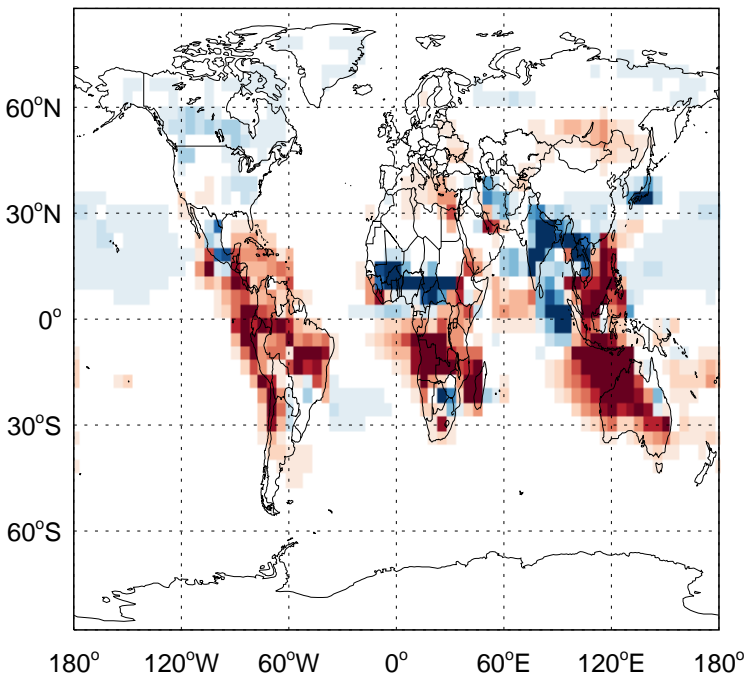
GC\_12.0.0 - v11-02f-Run1  
H2O2 - Diff @ Surface for Apr



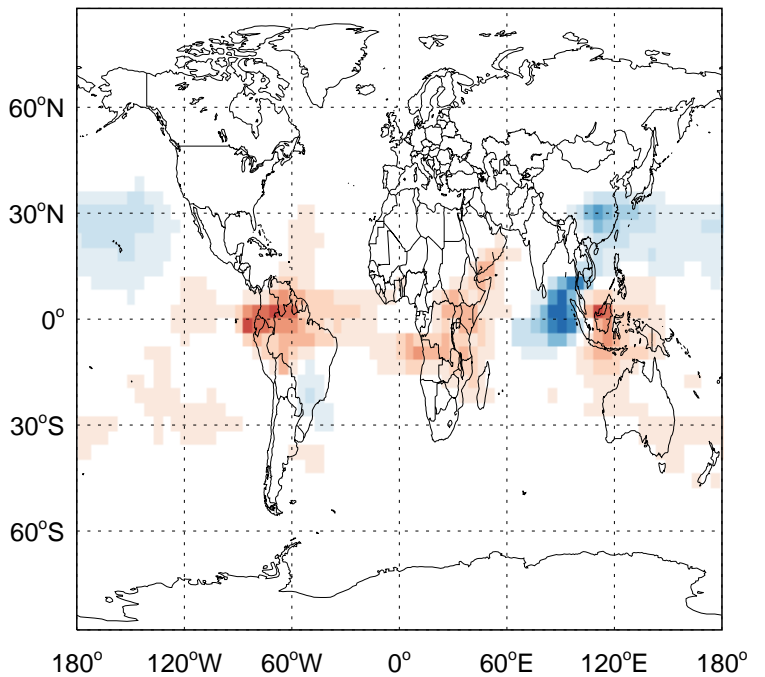
GC\_12.0.0 - v11-02f-Run1  
H2O2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
H2O2 - Diff @ Surface for Apr



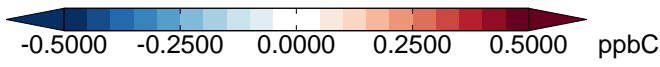
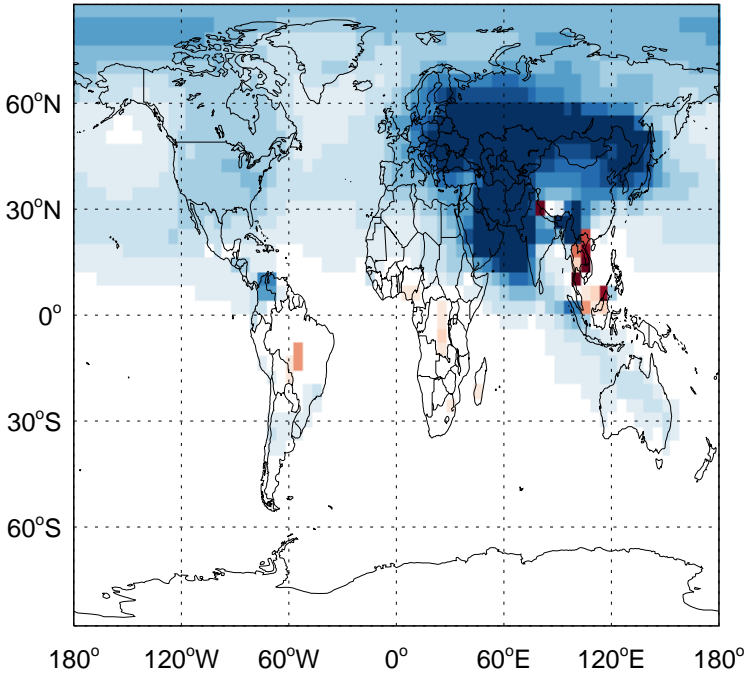
GC\_12.0.0 - v11-02e-Run1  
H2O2- Diff @ 500 hPa for Apr



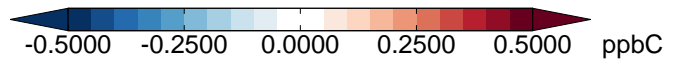
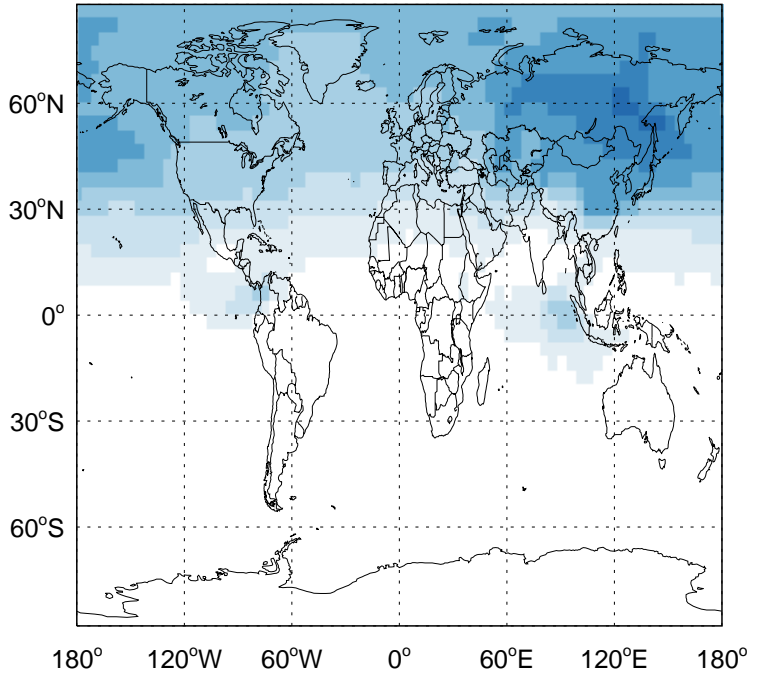


# GEOS-Chem Difference Maps at surface and 500 hPa

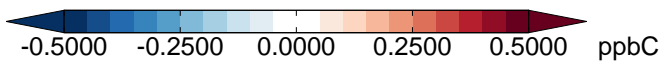
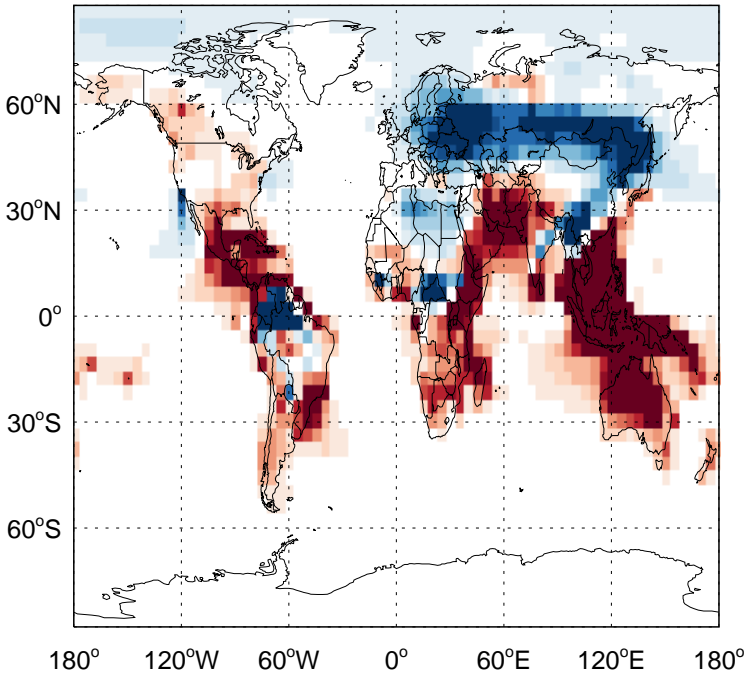
GC\_12.0.0 - v11-02f-Run1  
ACET - Diff @ Surface for Apr



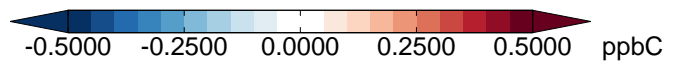
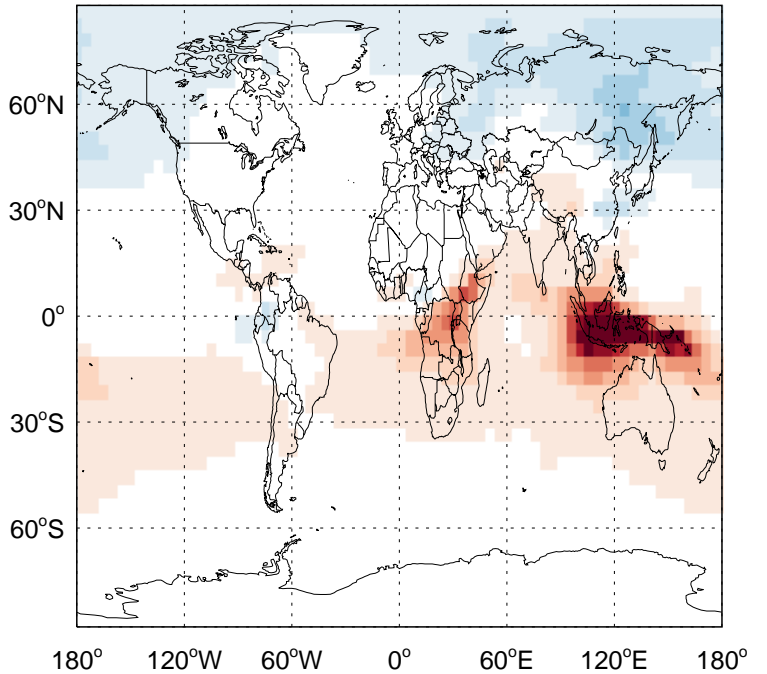
GC\_12.0.0 - v11-02f-Run1  
ACET- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ACET - Diff @ Surface for Apr

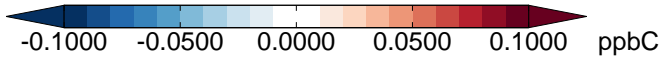
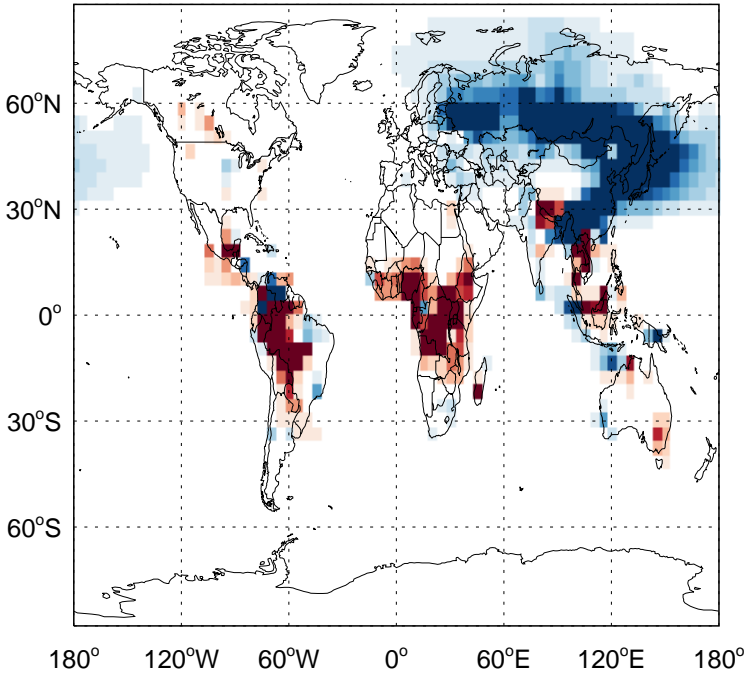


GC\_12.0.0 - v11-02e-Run1  
ACET- Diff @ 500 hPa for Apr

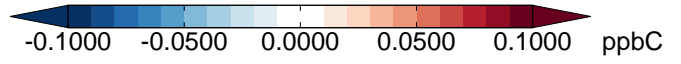
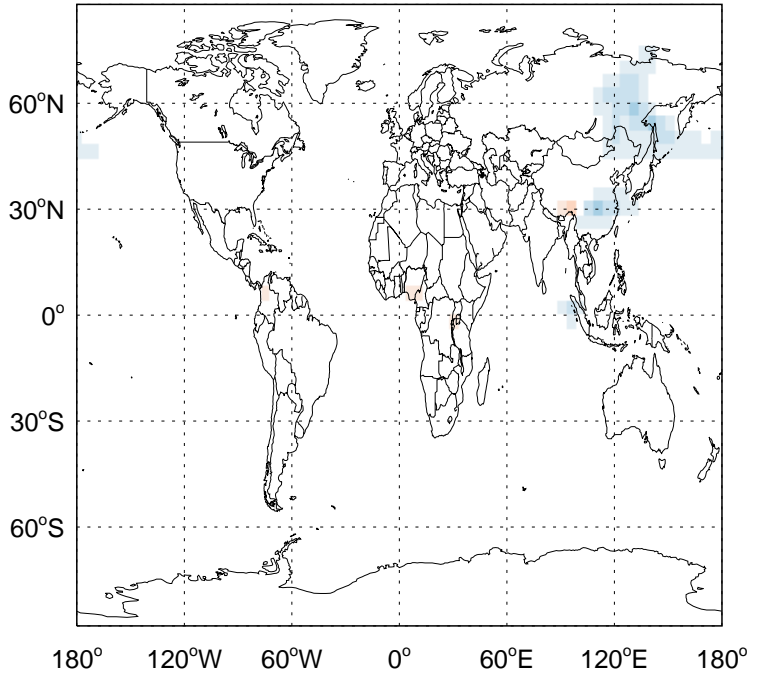


# GEOS-Chem Difference Maps at surface and 500 hPa

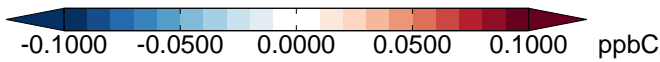
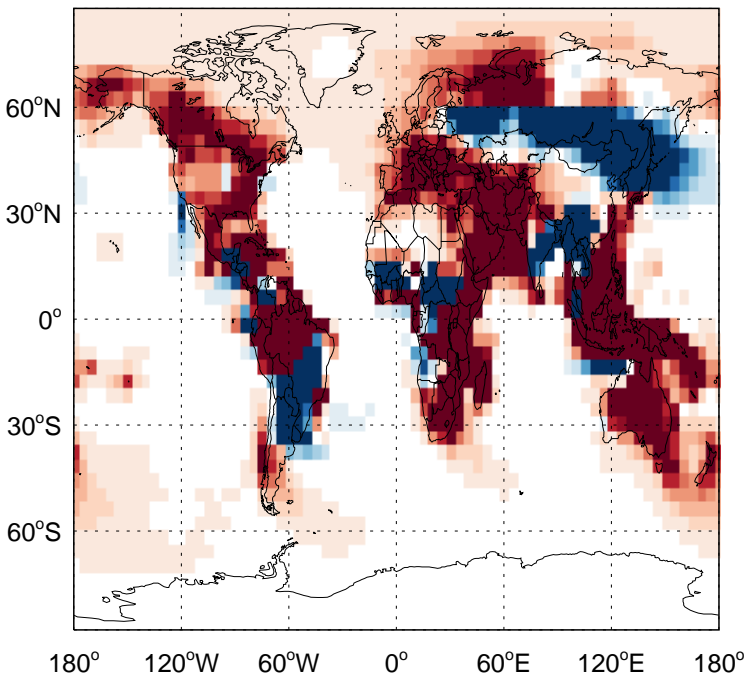
GC\_12.0.0 - v11-02f-Run1  
MEK - Diff @ Surface for Apr



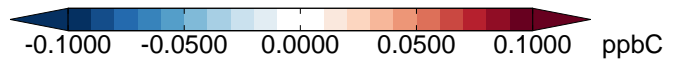
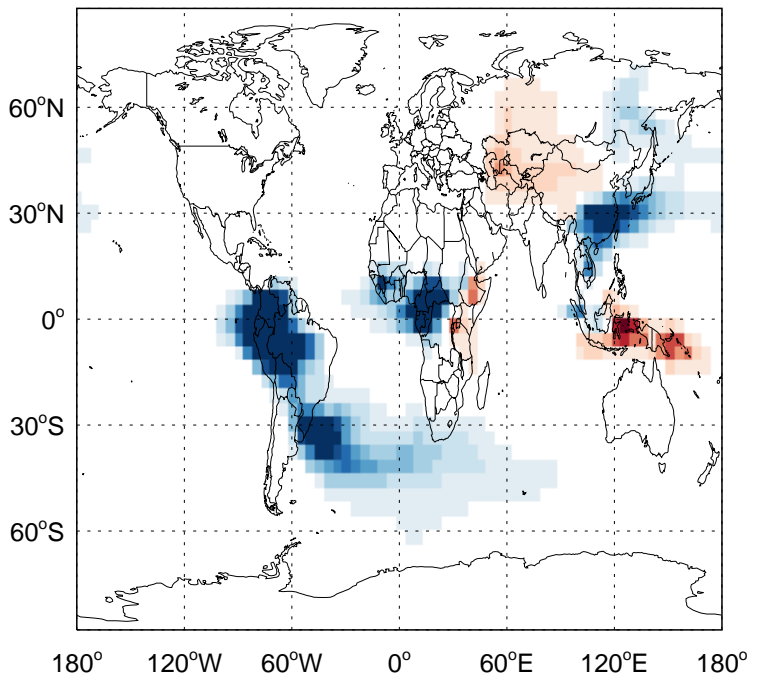
GC\_12.0.0 - v11-02f-Run1  
MEK- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MEK - Diff @ Surface for Apr

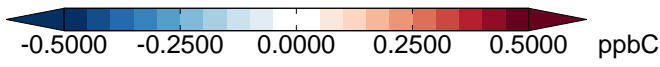
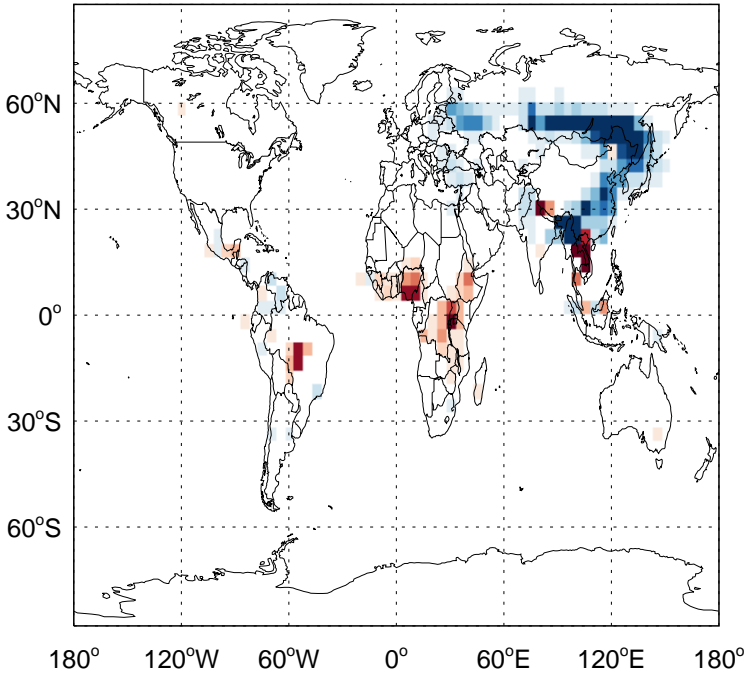


GC\_12.0.0 - v11-02e-Run1  
MEK- Diff @ 500 hPa for Apr

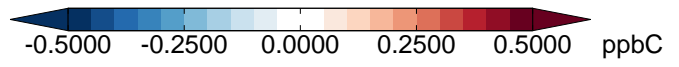
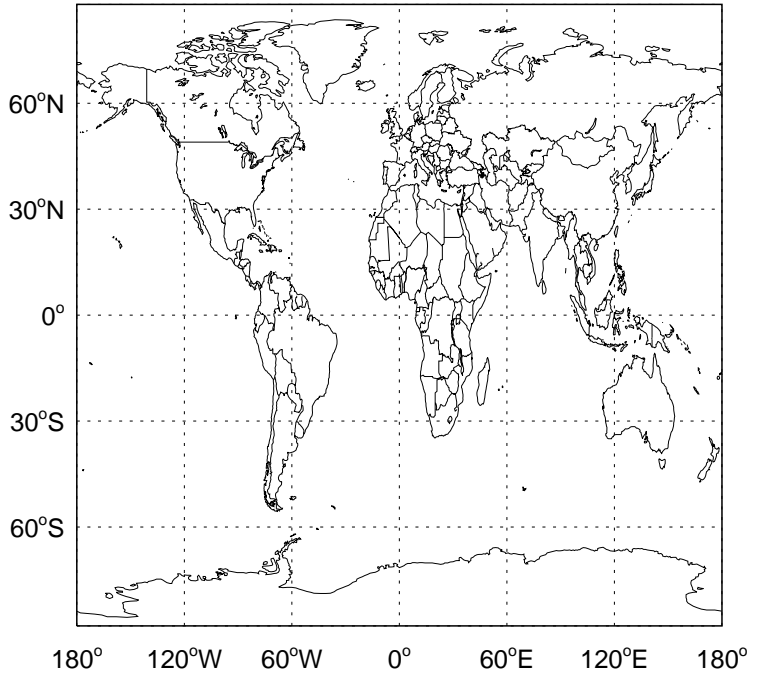


# GEOS-Chem Difference Maps at surface and 500 hPa

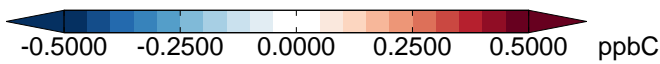
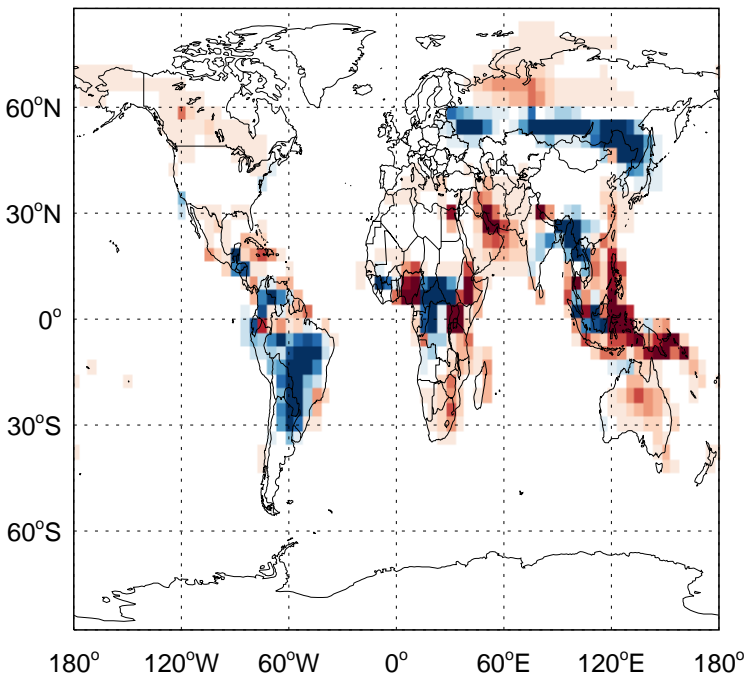
GC\_12.0.0 - v11-02f-Run1  
ALD2 - Diff @ Surface for Apr



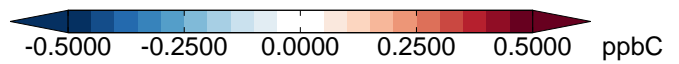
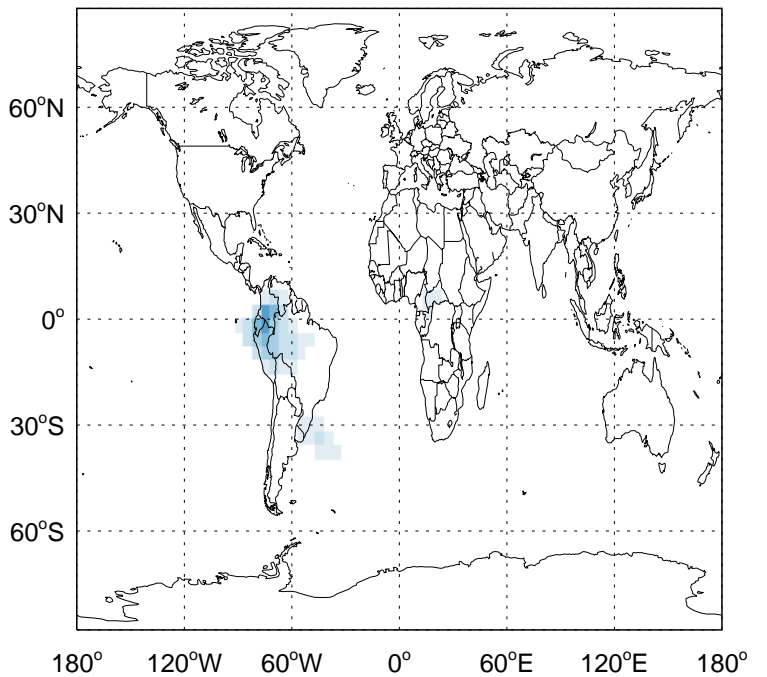
GC\_12.0.0 - v11-02f-Run1  
ALD2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ALD2 - Diff @ Surface for Apr

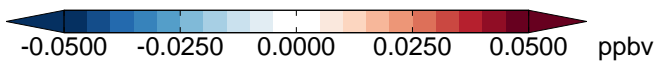
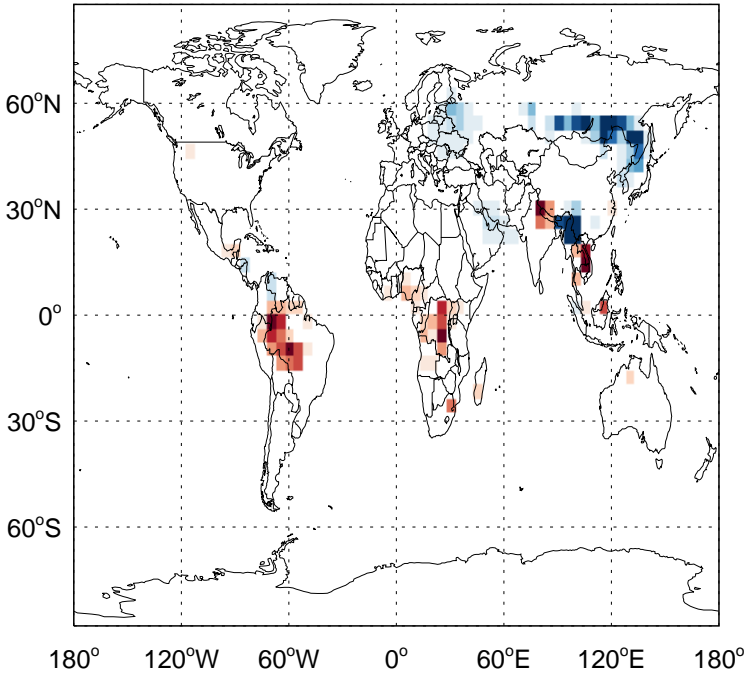


GC\_12.0.0 - v11-02e-Run1  
ALD2- Diff @ 500 hPa for Apr

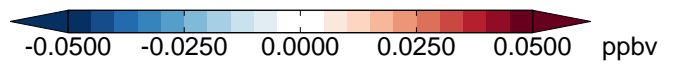


# GEOS-Chem Difference Maps at surface and 500 hPa

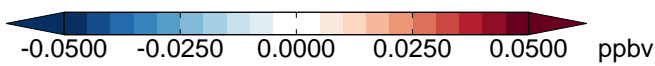
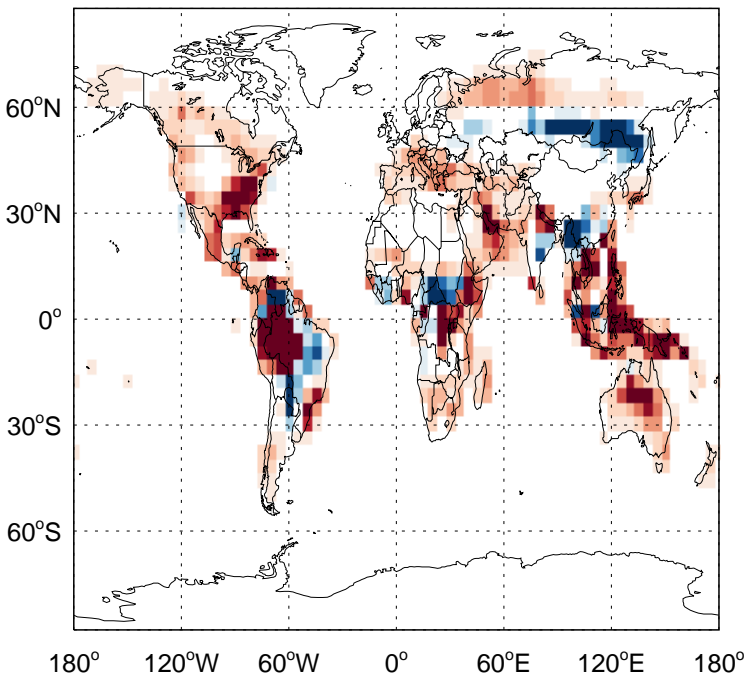
GC\_12.0.0 - v11-02f-Run1  
RCHO - Diff @ Surface for Apr



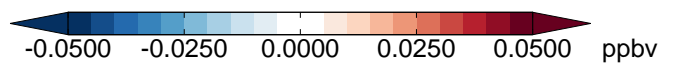
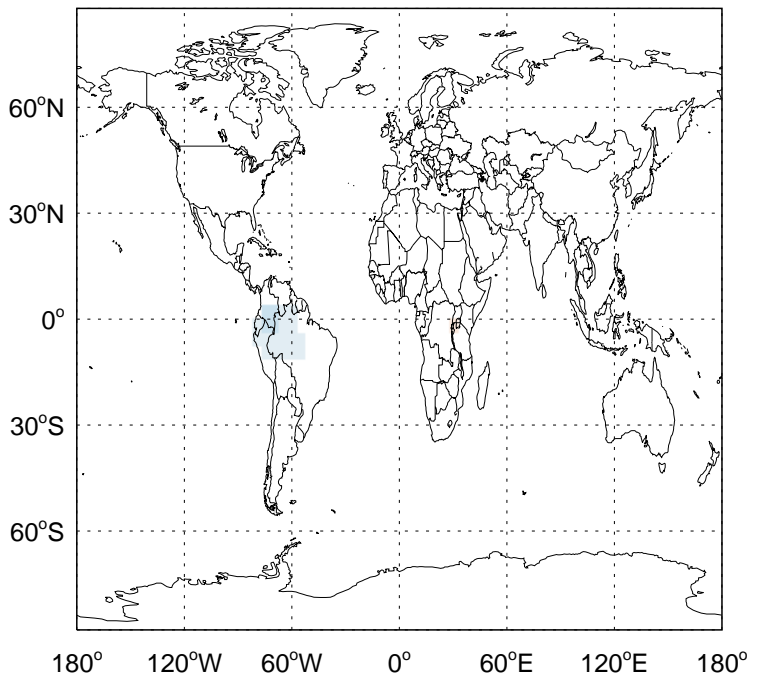
GC\_12.0.0 - v11-02f-Run1  
RCHO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
RCHO - Diff @ Surface for Apr

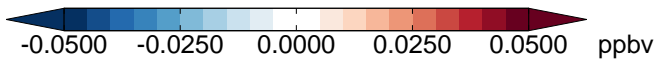
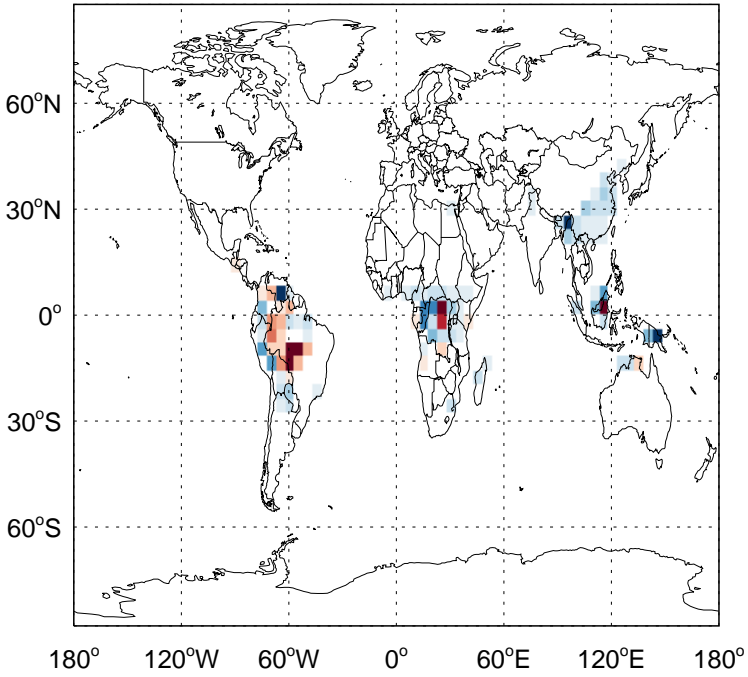


GC\_12.0.0 - v11-02e-Run1  
RCHO- Diff @ 500 hPa for Apr

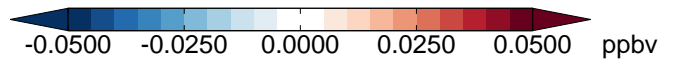
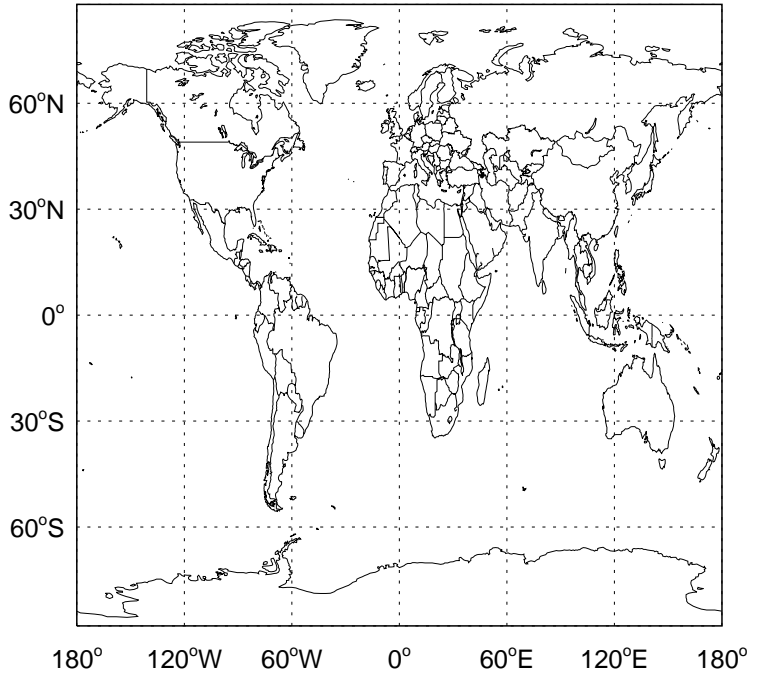


# GEOS-Chem Difference Maps at surface and 500 hPa

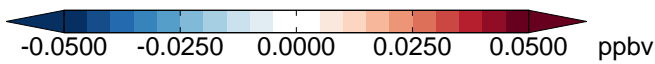
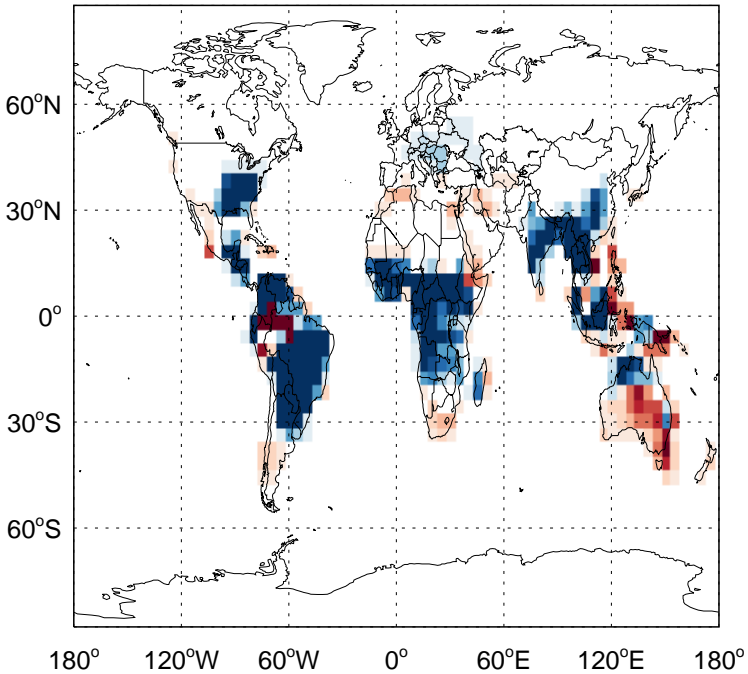
GC\_12.0.0 - v11-02f-Run1  
MVK - Diff @ Surface for Apr



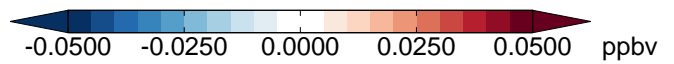
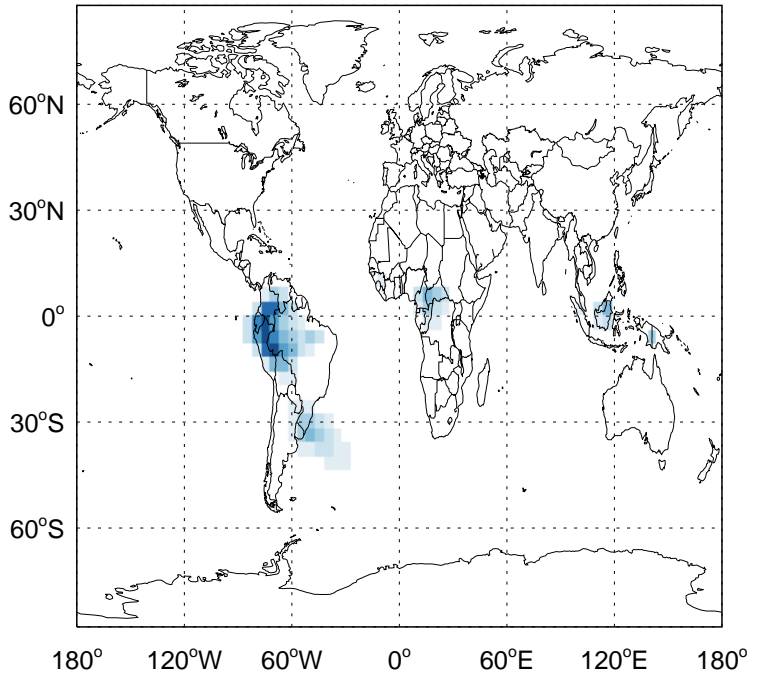
GC\_12.0.0 - v11-02f-Run1  
MVK- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MVK - Diff @ Surface for Apr

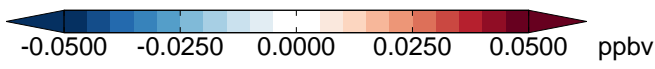
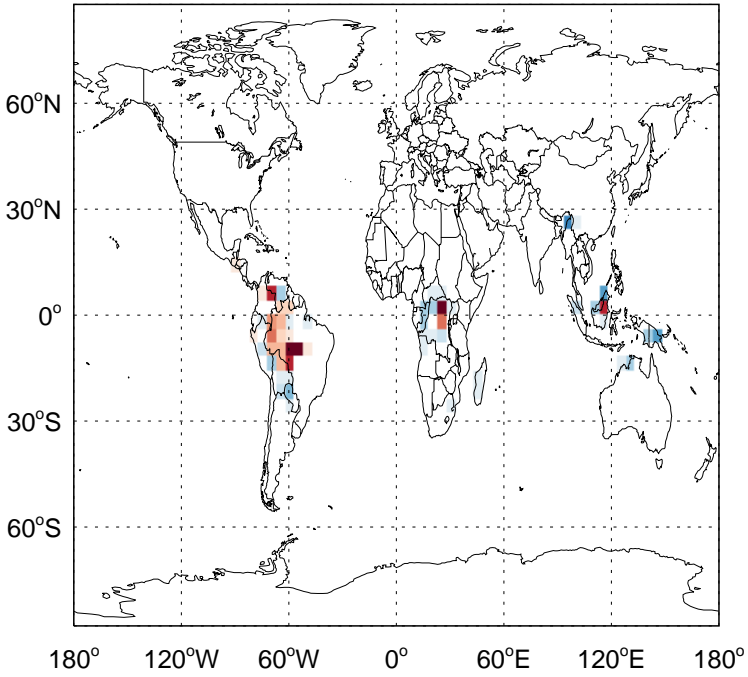


GC\_12.0.0 - v11-02e-Run1  
MVK- Diff @ 500 hPa for Apr

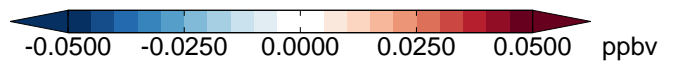
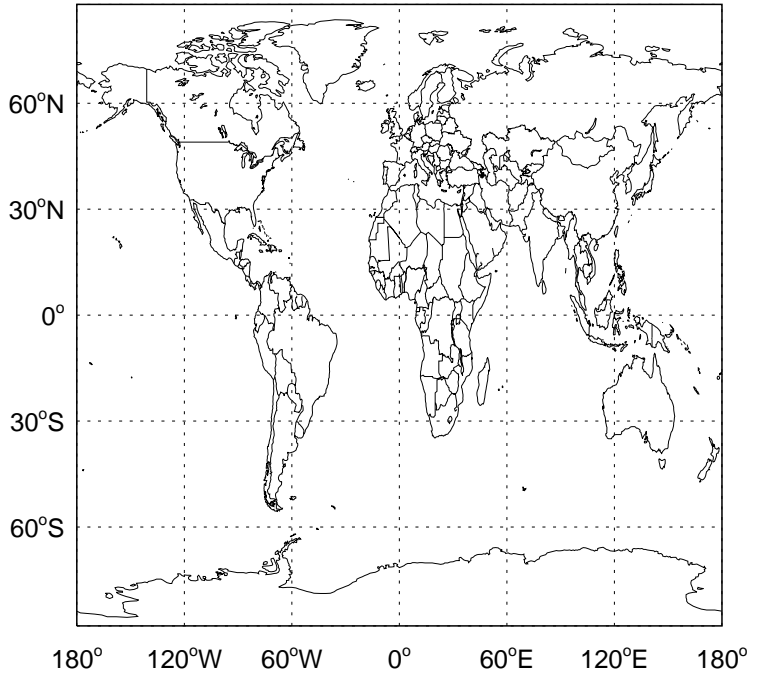


# GEOS-Chem Difference Maps at surface and 500 hPa

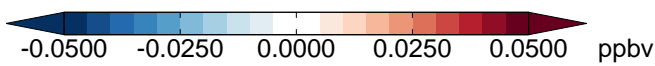
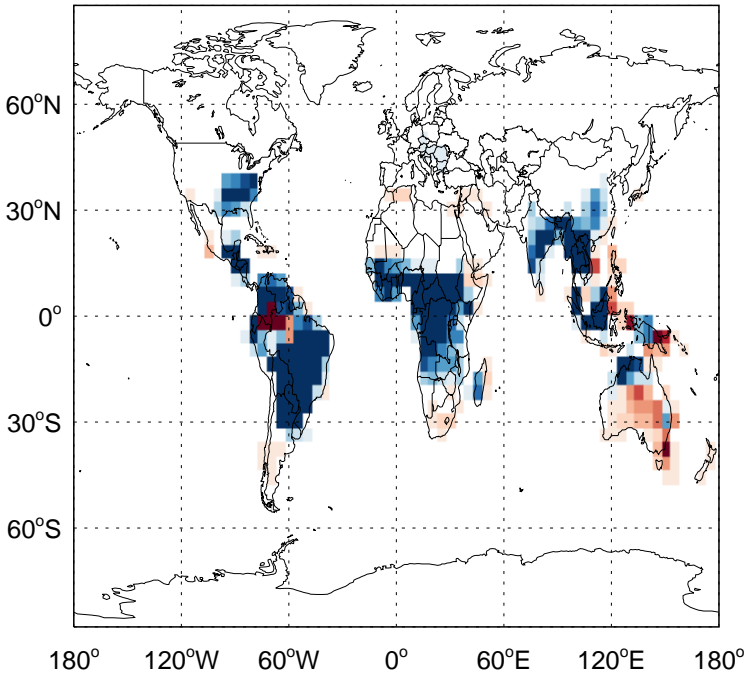
GC\_12.0.0 - v11-02f-Run1  
MACR - Diff @ Surface for Apr



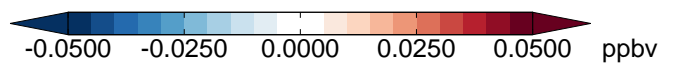
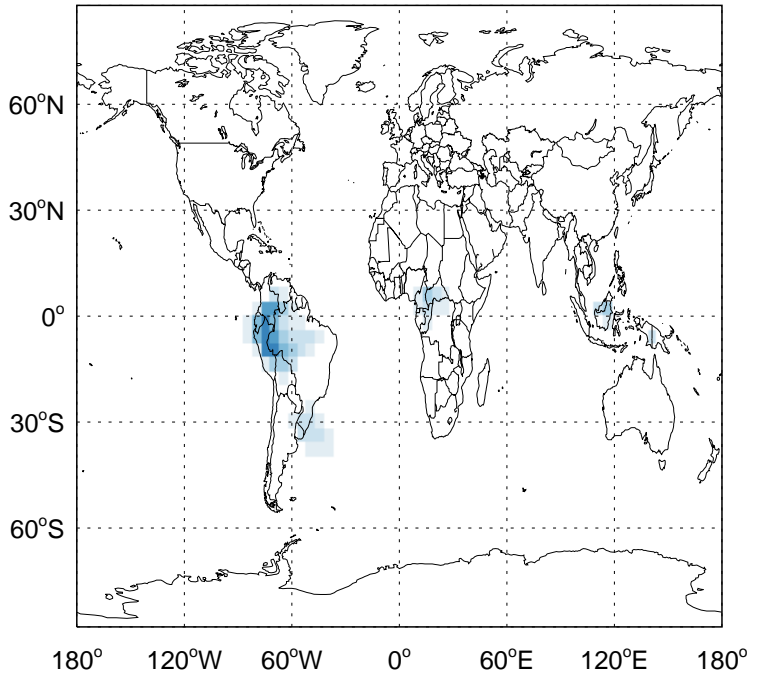
GC\_12.0.0 - v11-02f-Run1  
MACR- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MACR - Diff @ Surface for Apr

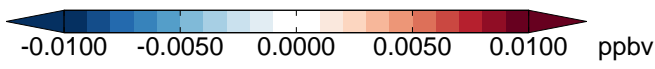


GC\_12.0.0 - v11-02e-Run1  
MACR- Diff @ 500 hPa for Apr

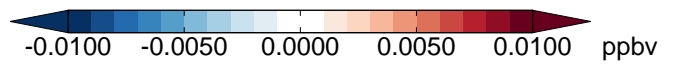


# GEOS-Chem Difference Maps at surface and 500 hPa

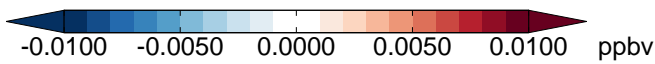
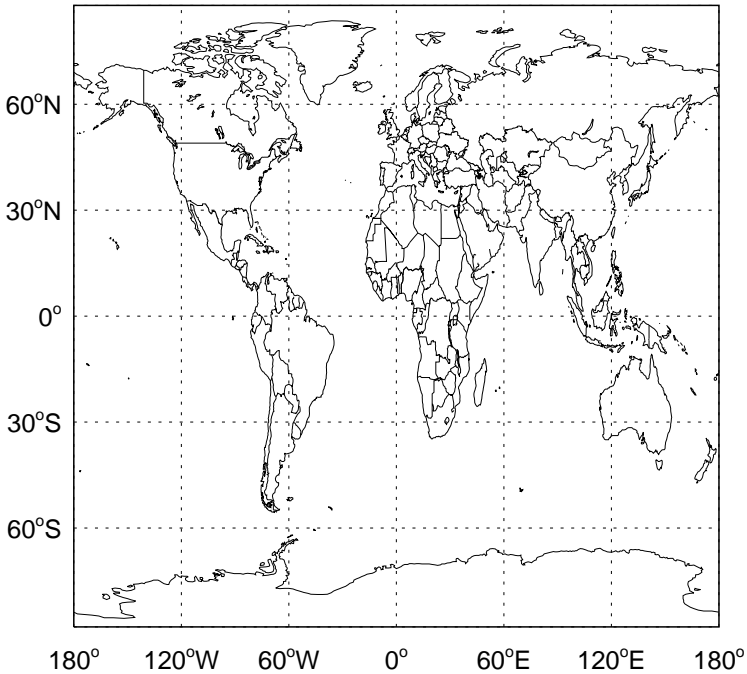
GC\_12.0.0 - v11-02f-Run1  
NPMN - Diff @ Surface for Apr



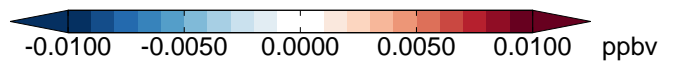
GC\_12.0.0 - v11-02f-Run1  
NPMN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NPMN - Diff @ Surface for Apr

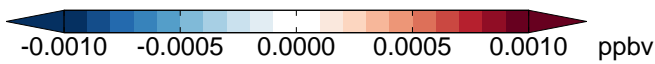
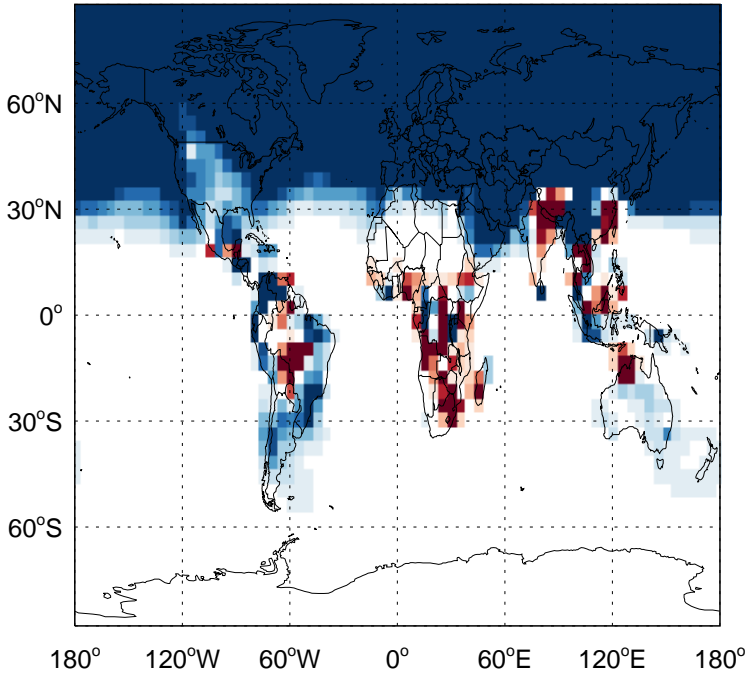


GC\_12.0.0 - v11-02e-Run1  
NPMN- Diff @ 500 hPa for Apr

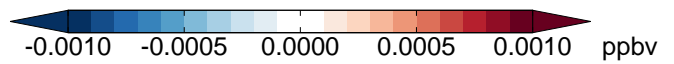
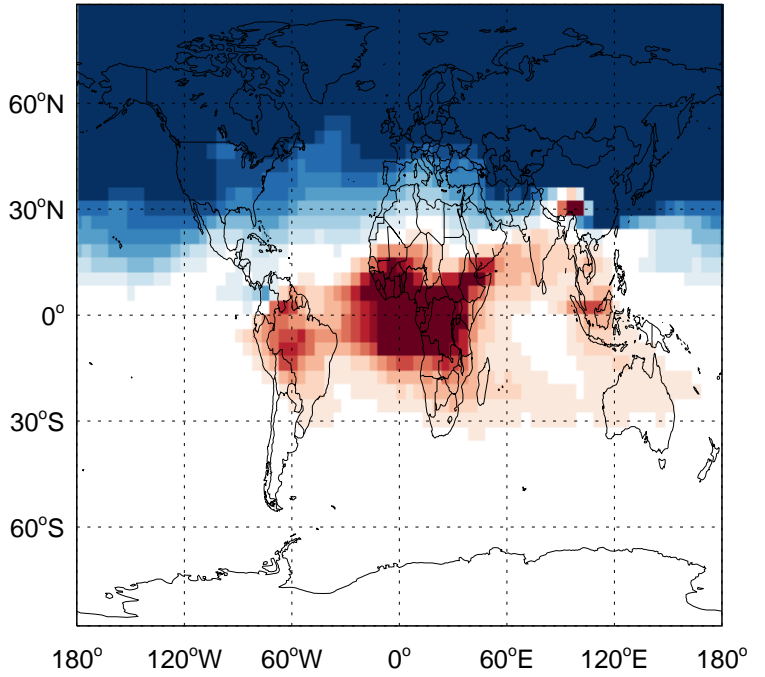


# GEOS-Chem Difference Maps at surface and 500 hPa

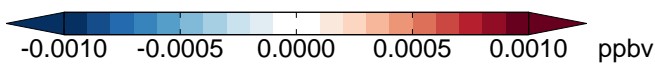
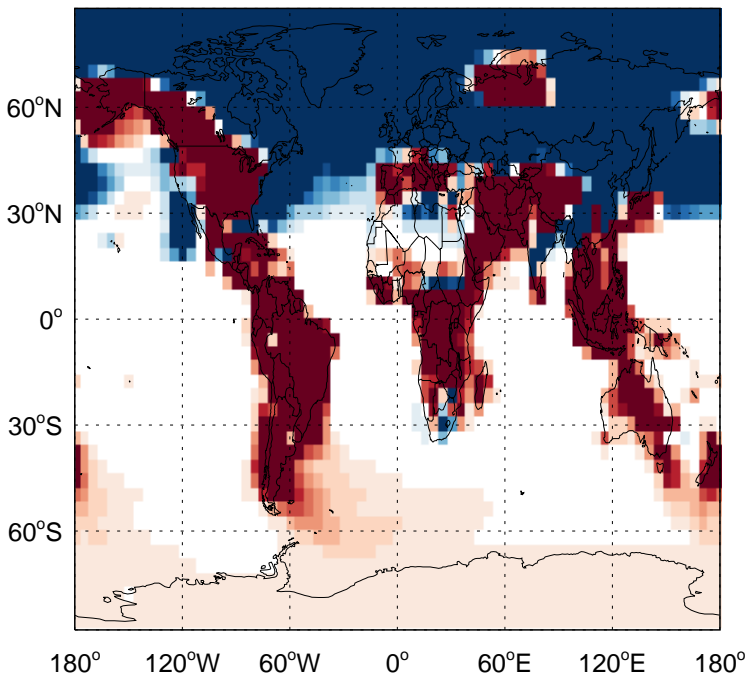
GC\_12.0.0 - v11-02f-Run1  
PPN - Diff @ Surface for Apr



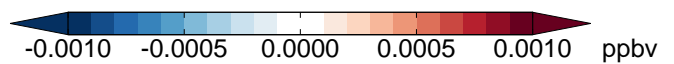
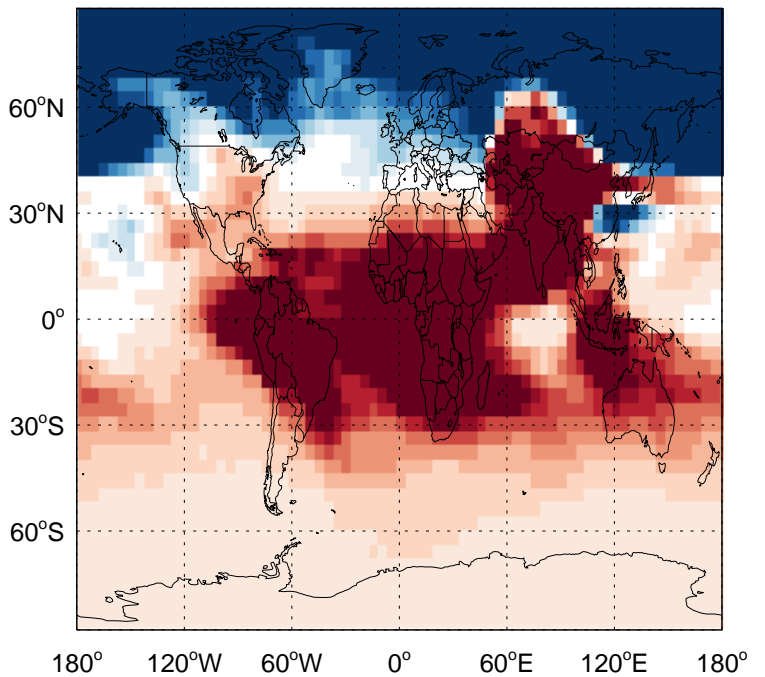
GC\_12.0.0 - v11-02f-Run1  
PPN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
PPN - Diff @ Surface for Apr



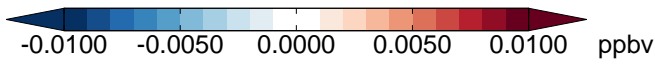
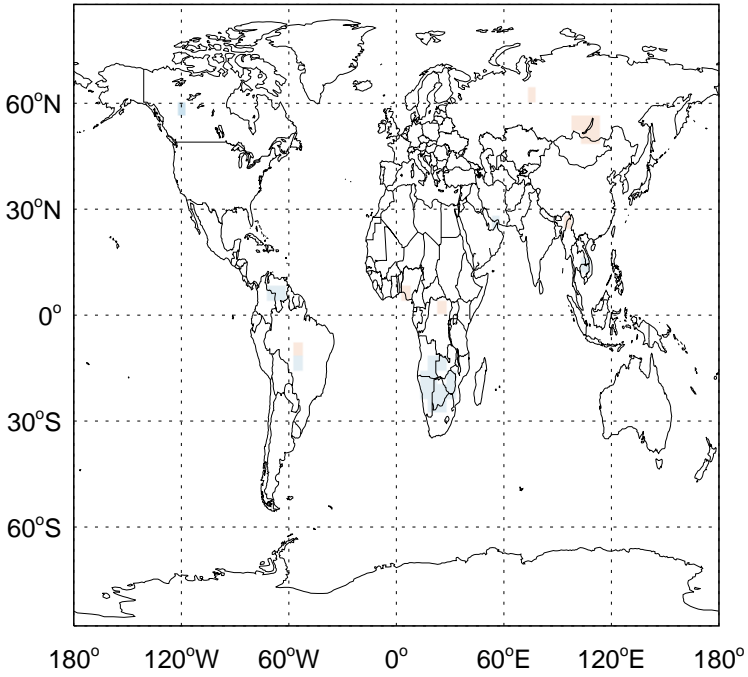
GC\_12.0.0 - v11-02e-Run1  
PPN- Diff @ 500 hPa for Apr



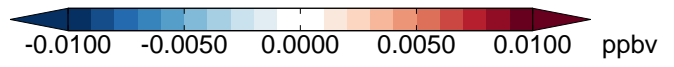


# GEOS-Chem Difference Maps at surface and 500 hPa

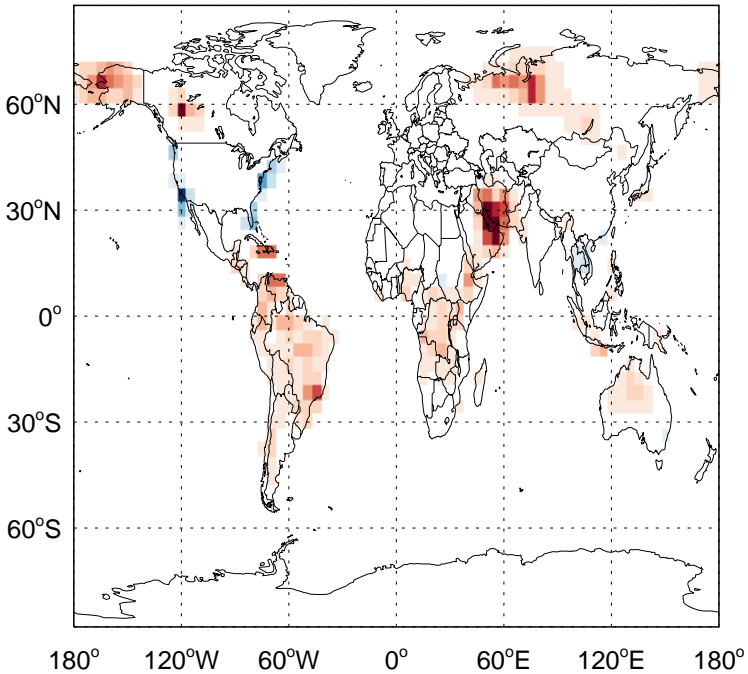
GC\_12.0.0 - v11-02f-Run1  
R4N2 - Diff @ Surface for Apr



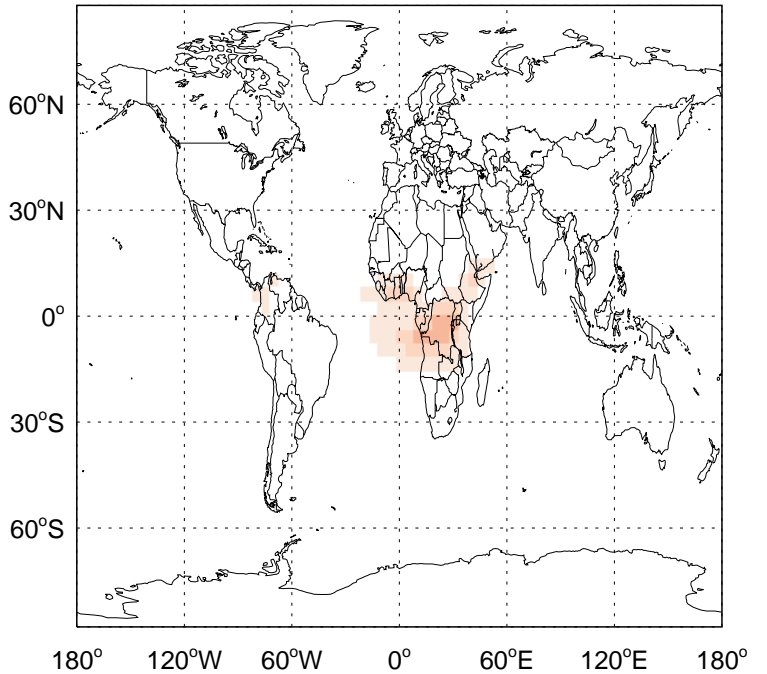
GC\_12.0.0 - v11-02f-Run1  
R4N2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
R4N2 - Diff @ Surface for Apr

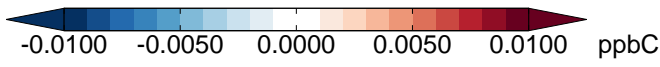
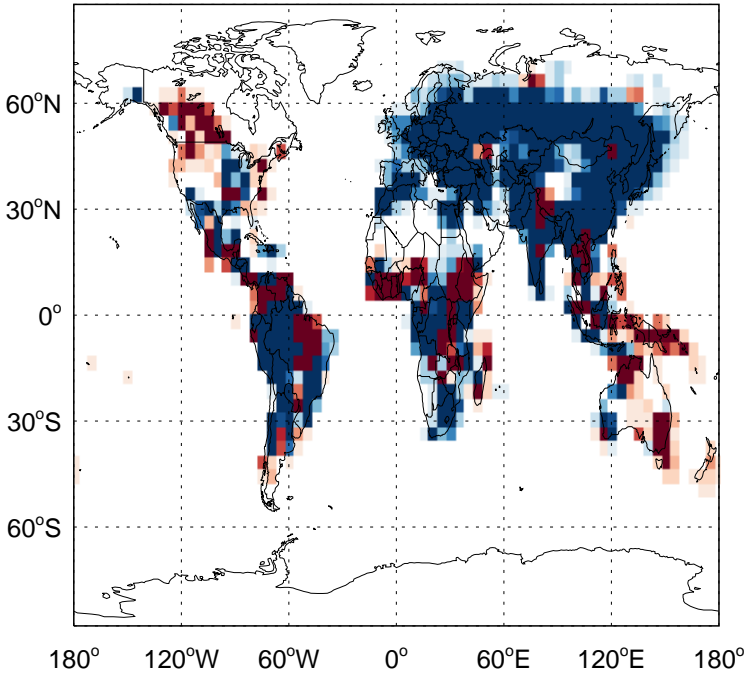


GC\_12.0.0 - v11-02e-Run1  
R4N2- Diff @ 500 hPa for Apr

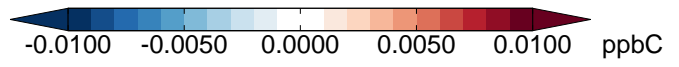
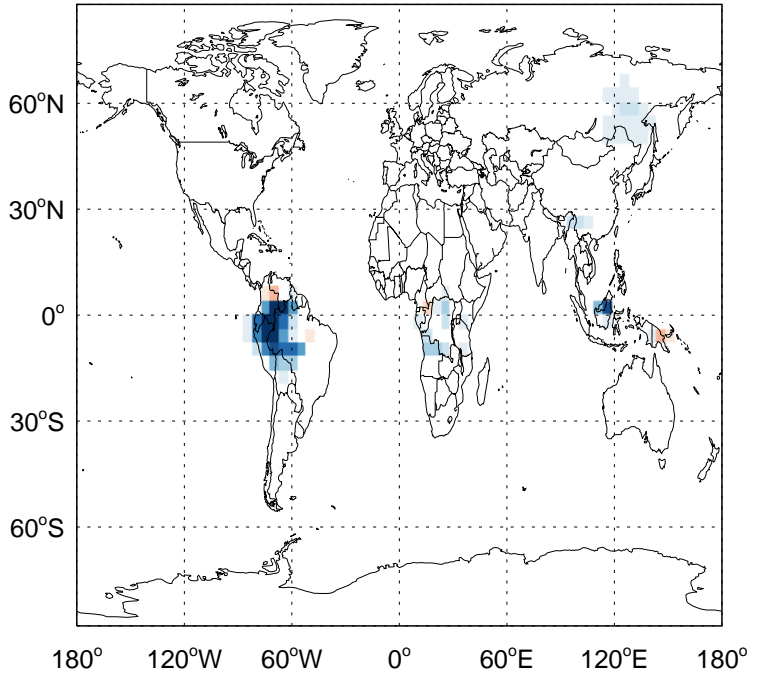


# GEOS-Chem Difference Maps at surface and 500 hPa

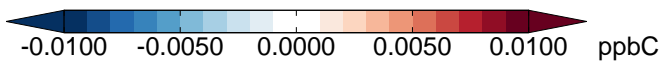
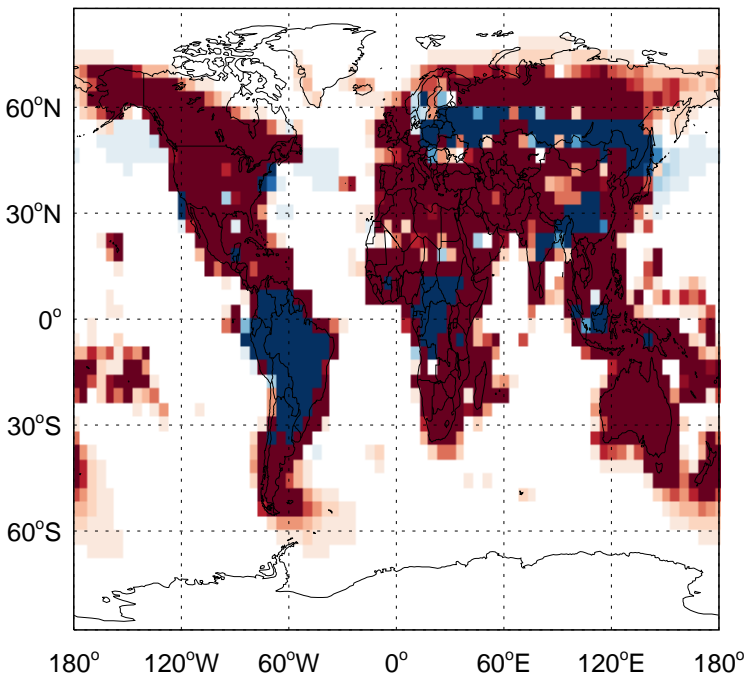
GC\_12.0.0 - v11-02f-Run1  
PRPE - Diff @ Surface for Apr



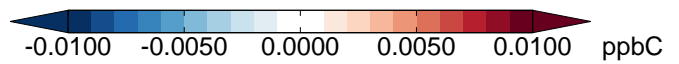
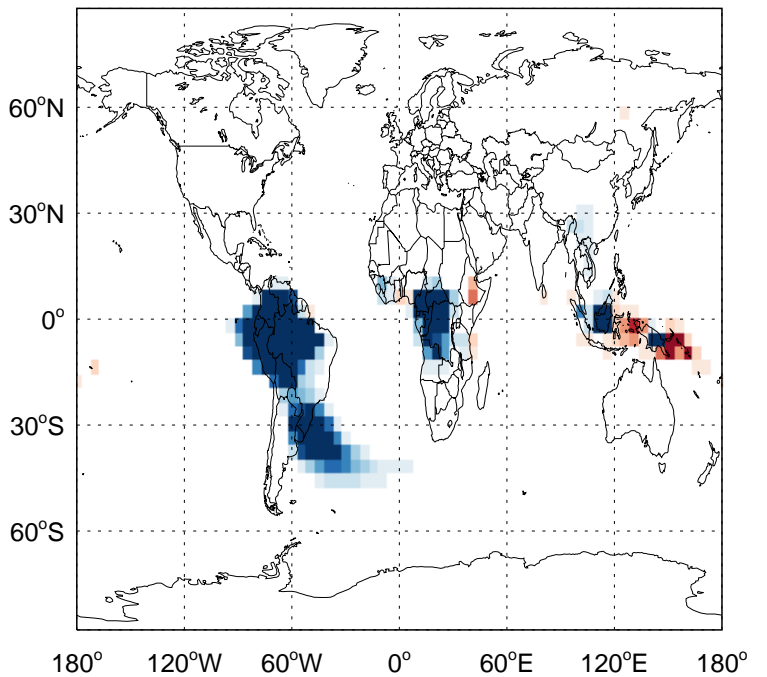
GC\_12.0.0 - v11-02f-Run1  
PRPE- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
PRPE - Diff @ Surface for Apr

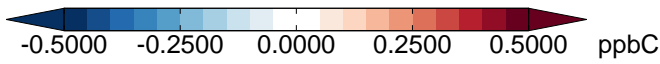
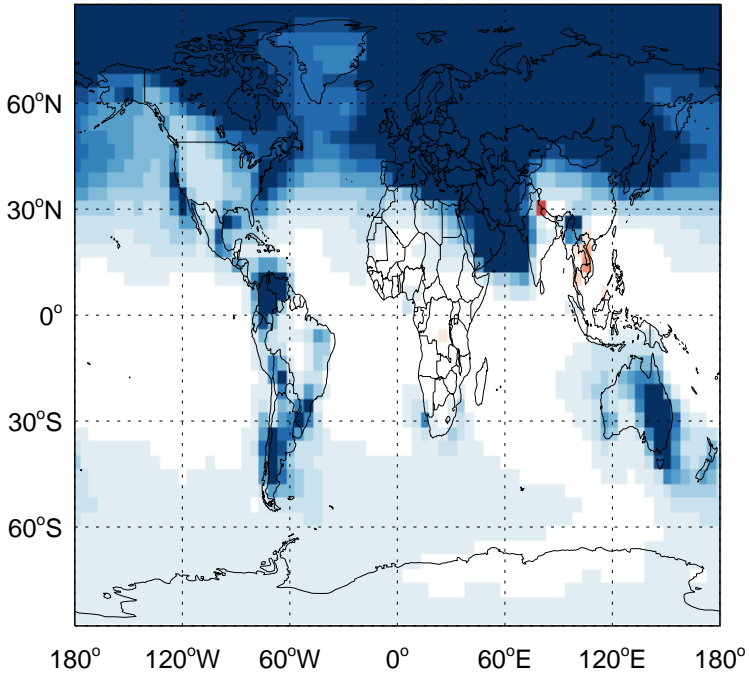


GC\_12.0.0 - v11-02e-Run1  
PRPE- Diff @ 500 hPa for Apr

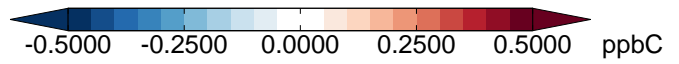
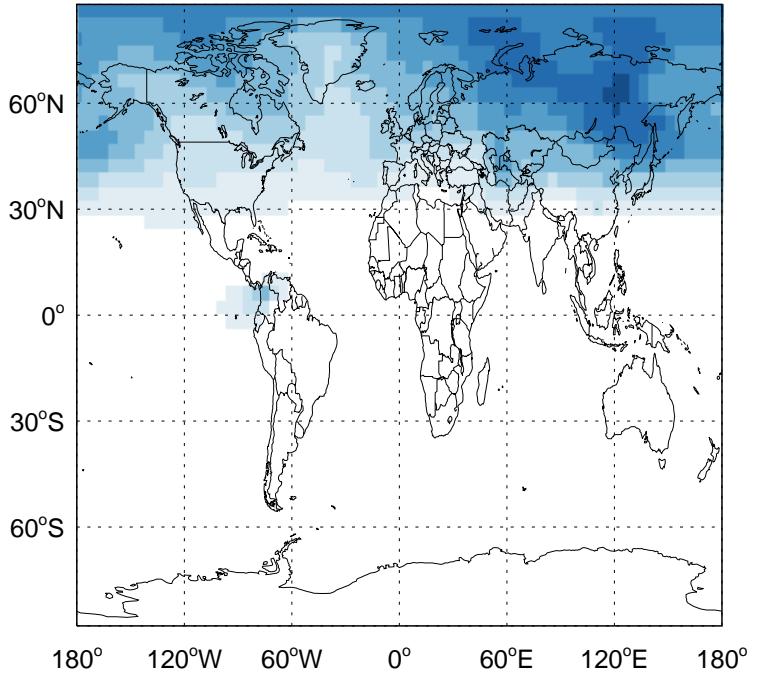


# GEOS-Chem Difference Maps at surface and 500 hPa

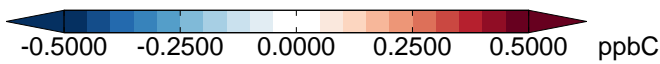
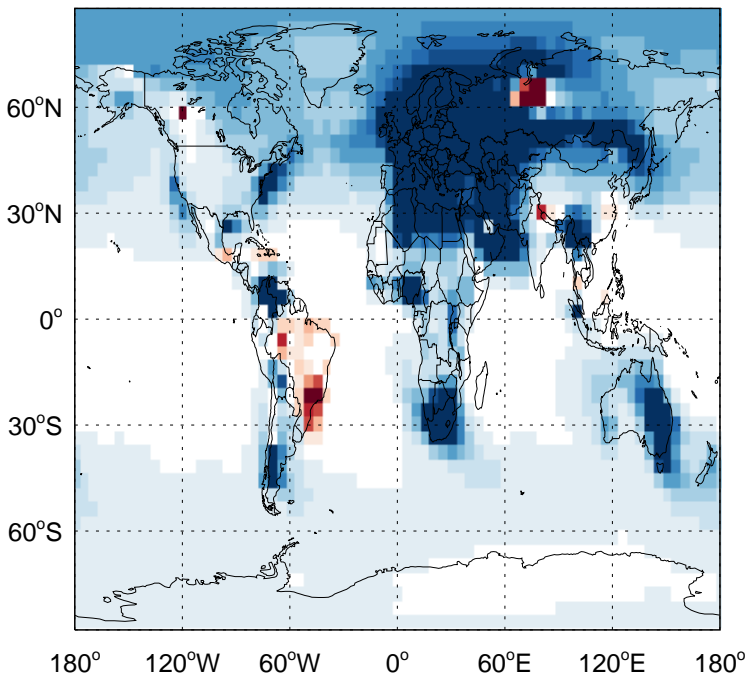
GC\_12.0.0 - v11-02f-Run1  
C3H8 - Diff @ Surface for Apr



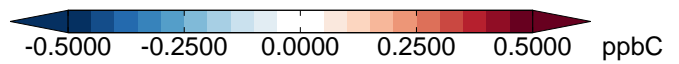
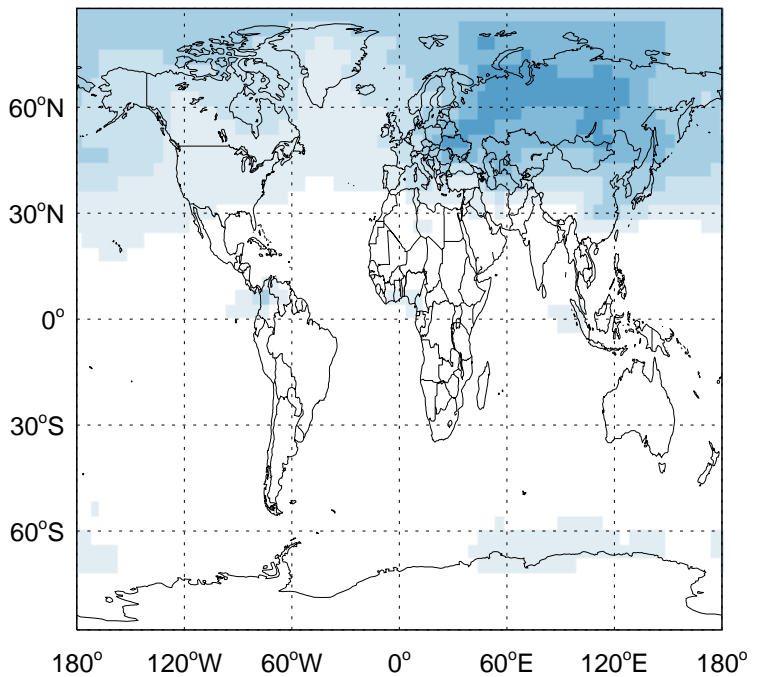
GC\_12.0.0 - v11-02f-Run1  
C3H8- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
C3H8 - Diff @ Surface for Apr

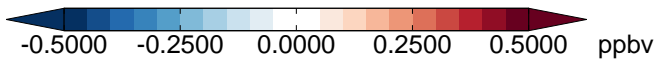
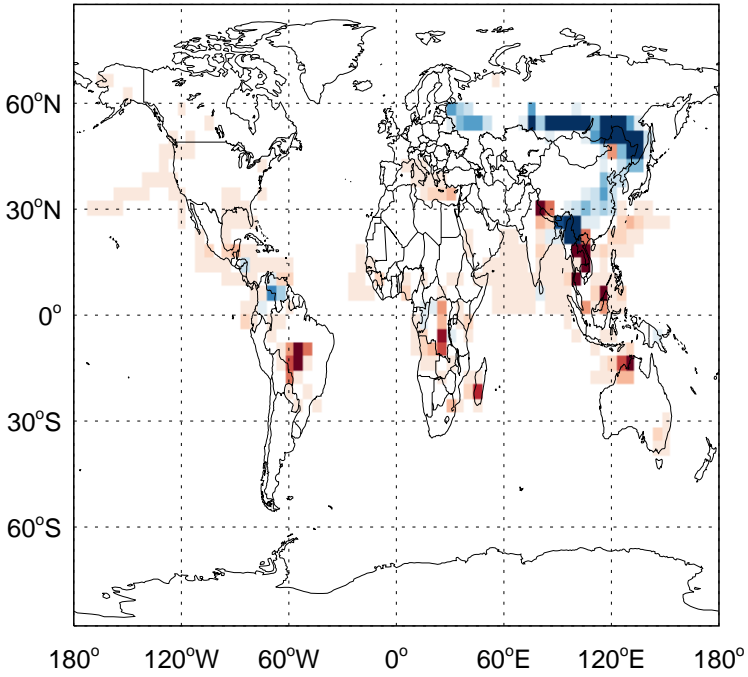


GC\_12.0.0 - v11-02e-Run1  
C3H8- Diff @ 500 hPa for Apr

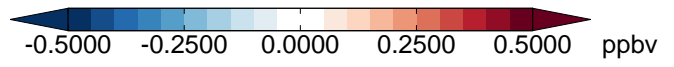


# GEOS-Chem Difference Maps at surface and 500 hPa

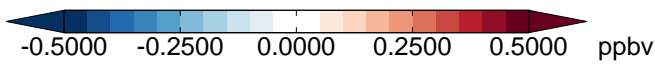
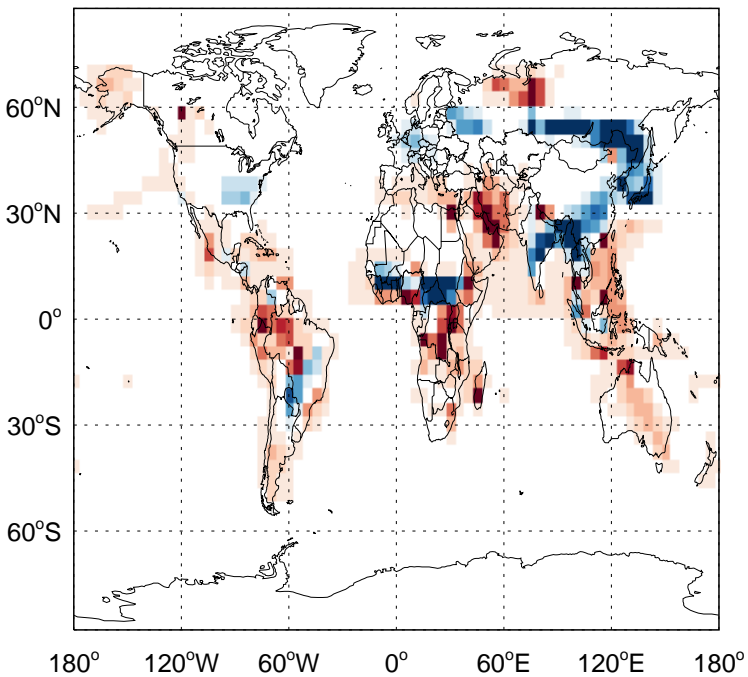
GC\_12.0.0 - v11-02f-Run1  
CH2O - Diff @ Surface for Apr



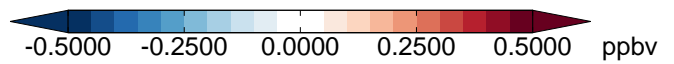
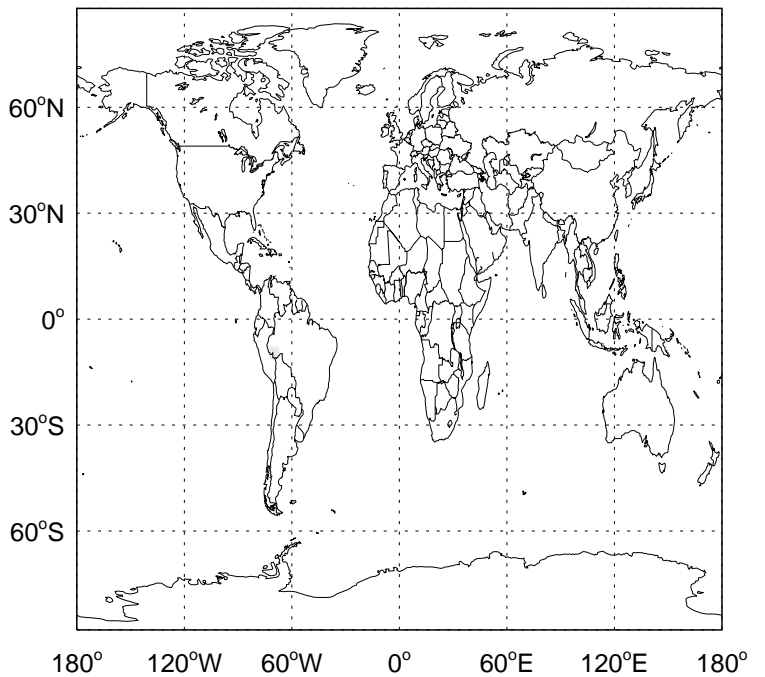
GC\_12.0.0 - v11-02f-Run1  
CH2O- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH2O - Diff @ Surface for Apr

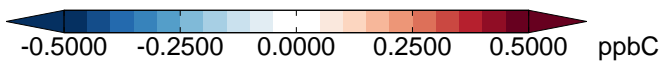
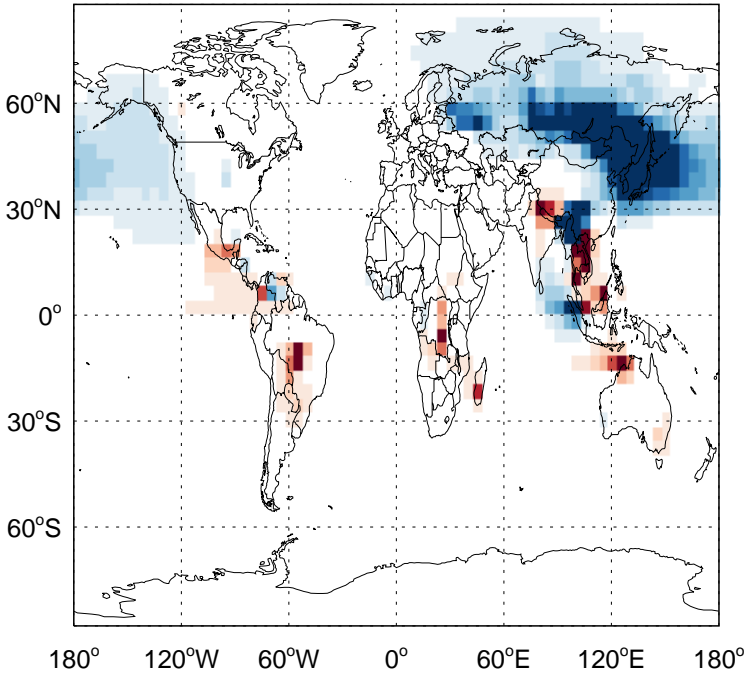


GC\_12.0.0 - v11-02e-Run1  
CH2O- Diff @ 500 hPa for Apr

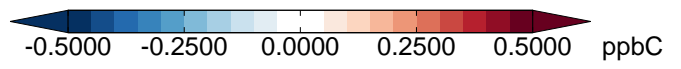
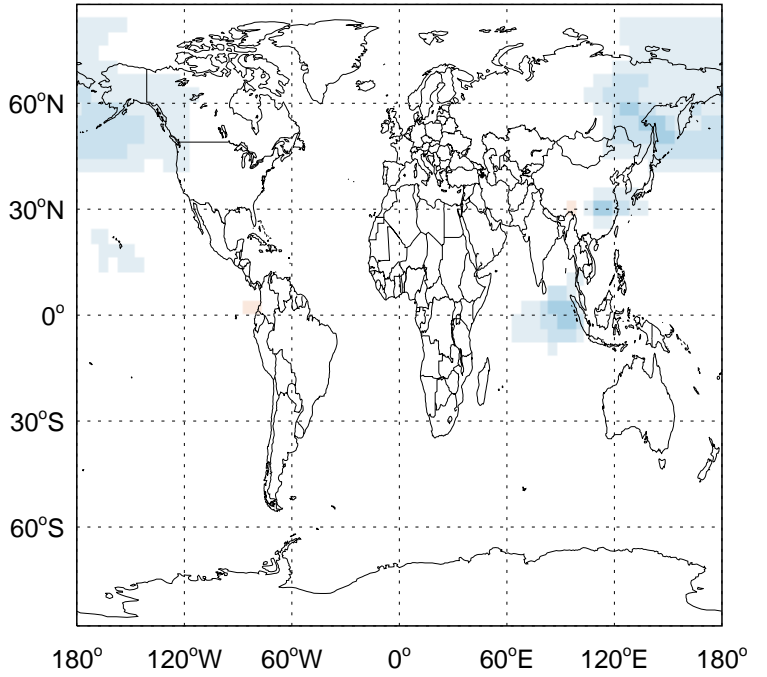


# GEOS-Chem Difference Maps at surface and 500 hPa

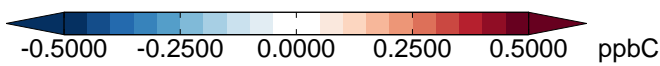
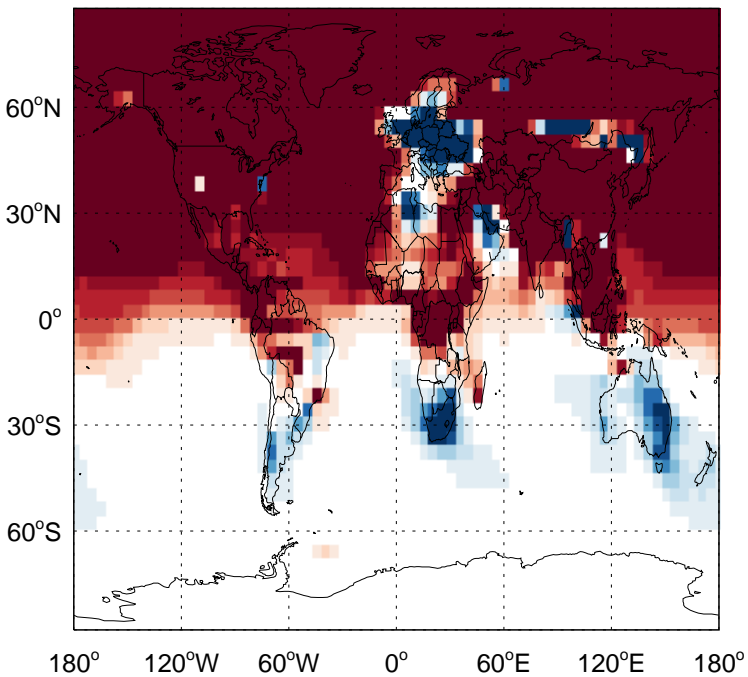
GC\_12.0.0 - v11-02f-Run1  
C2H6 - Diff @ Surface for Apr



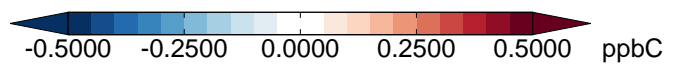
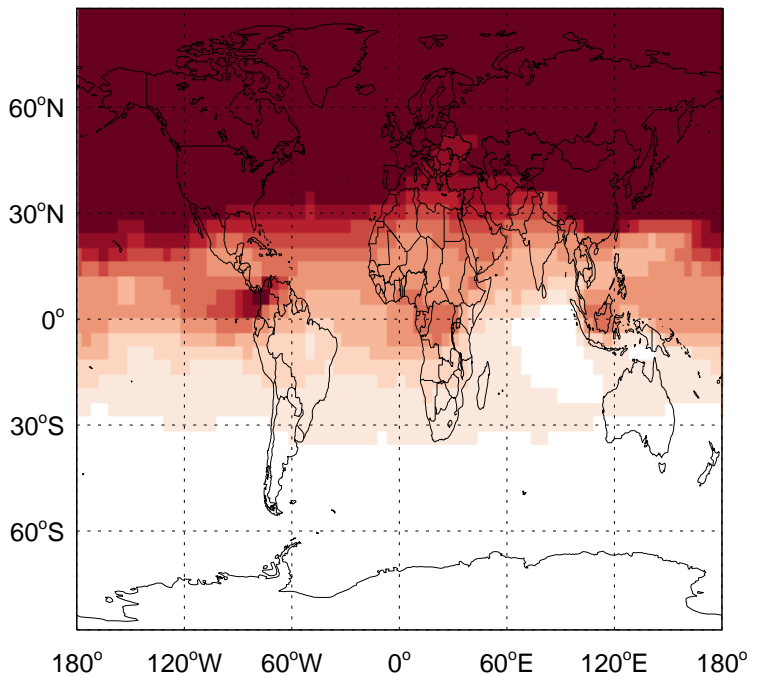
GC\_12.0.0 - v11-02f-Run1  
C2H6- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
C2H6 - Diff @ Surface for Apr

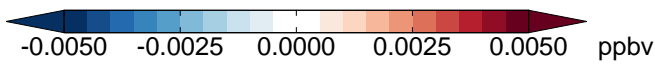
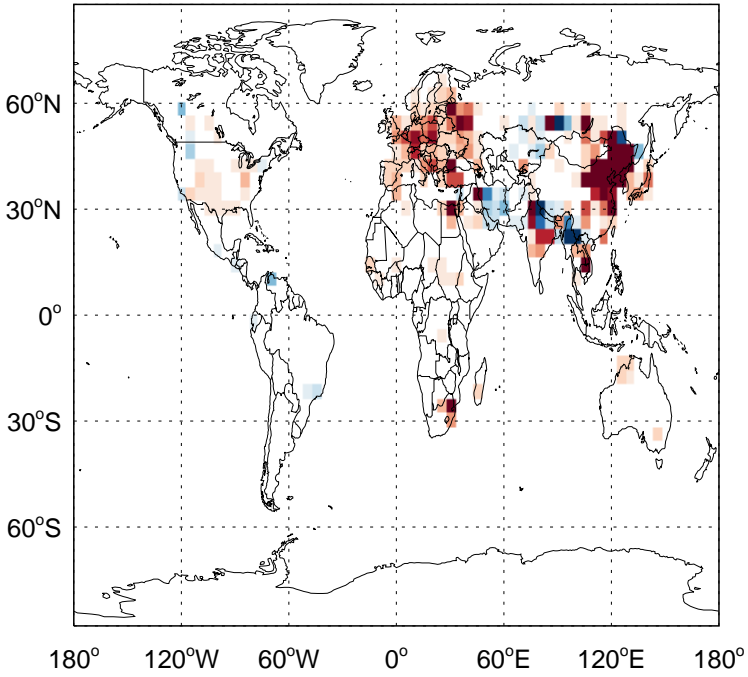


GC\_12.0.0 - v11-02e-Run1  
C2H6- Diff @ 500 hPa for Apr

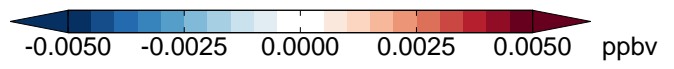
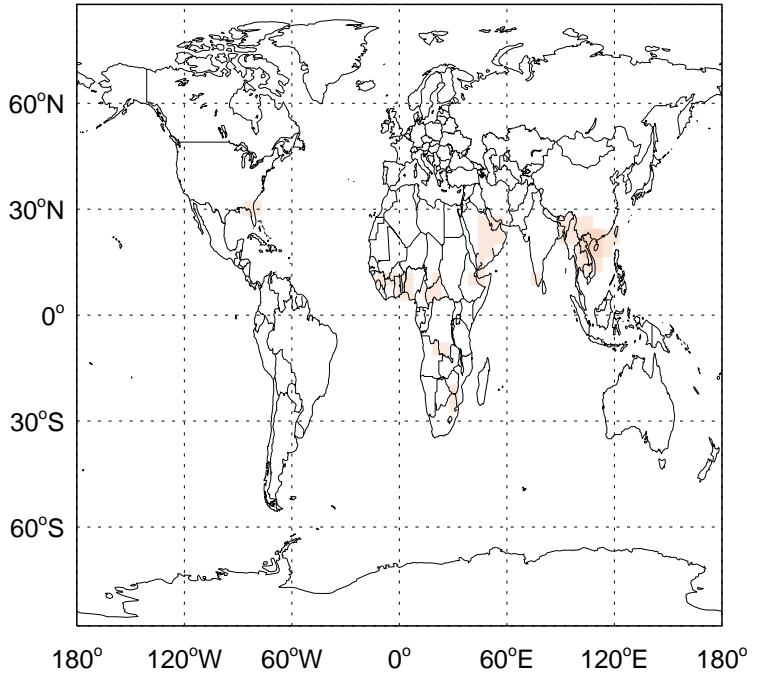


# GEOS-Chem Difference Maps at surface and 500 hPa

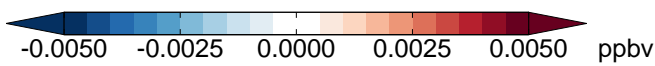
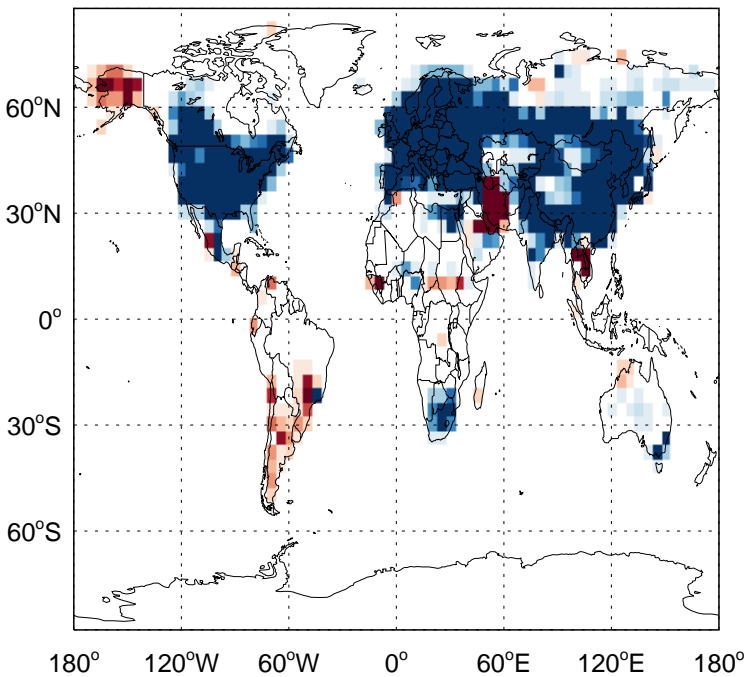
GC\_12.0.0 - v11-02f-Run1  
N2O5 - Diff @ Surface for Apr



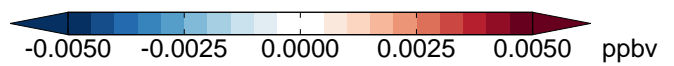
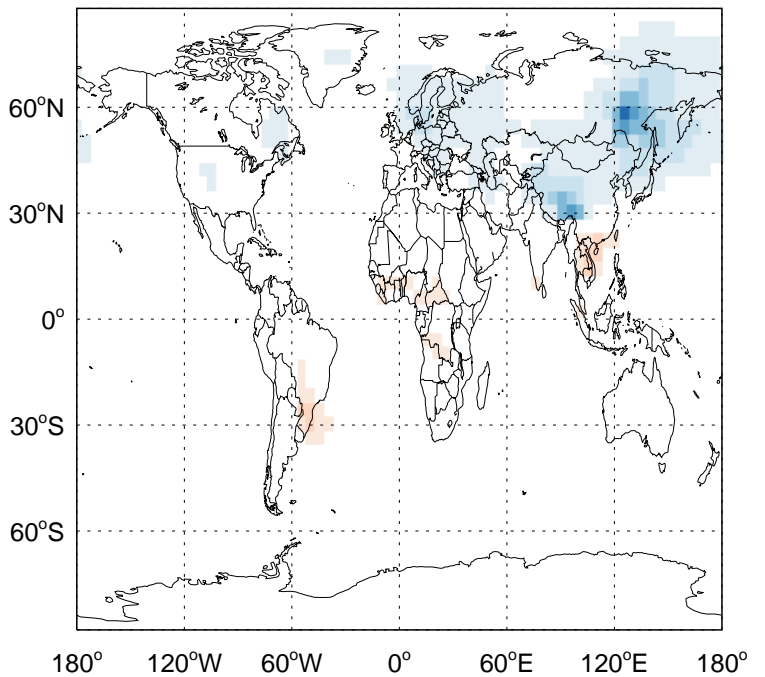
GC\_12.0.0 - v11-02f-Run1  
N2O5- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
N2O5 - Diff @ Surface for Apr

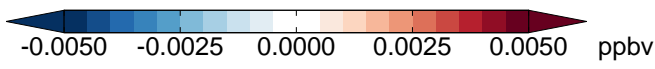
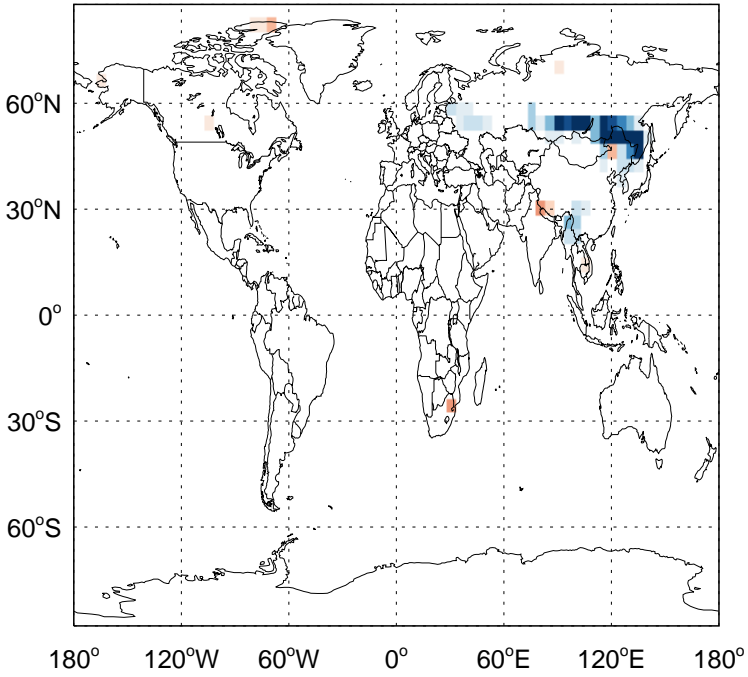


GC\_12.0.0 - v11-02e-Run1  
N2O5- Diff @ 500 hPa for Apr

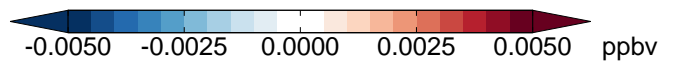
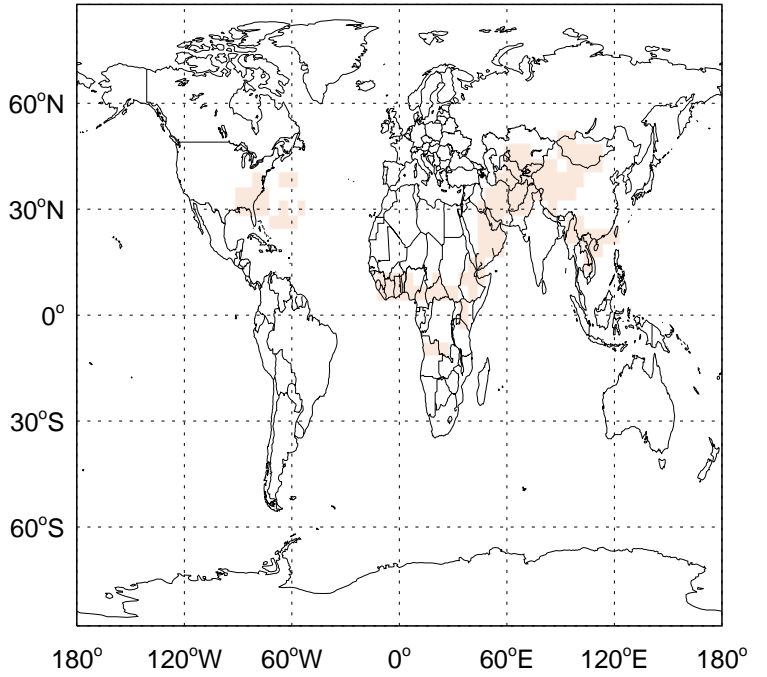


# GEOS-Chem Difference Maps at surface and 500 hPa

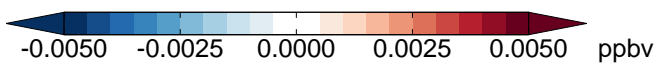
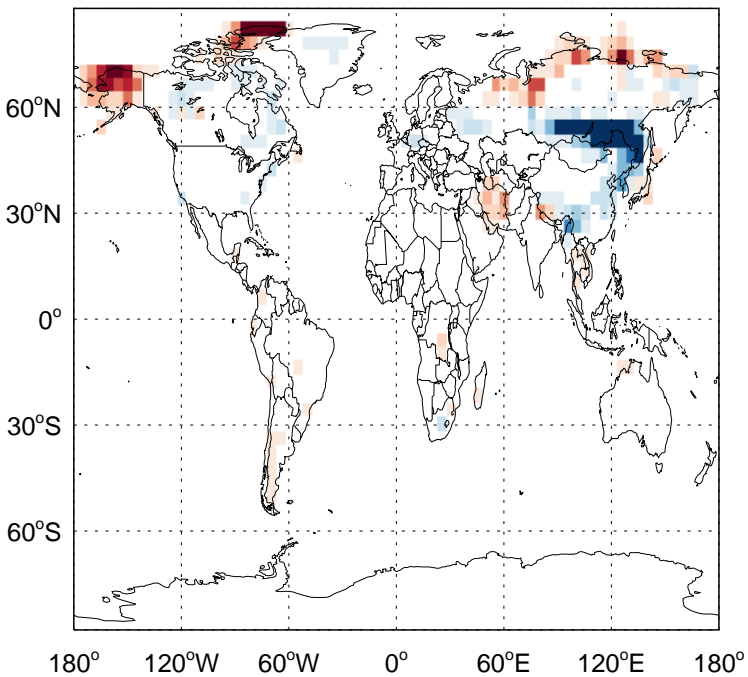
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>4</sub> - Diff @ Surface for Apr



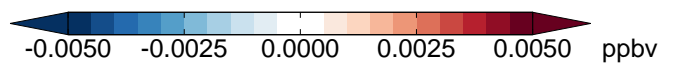
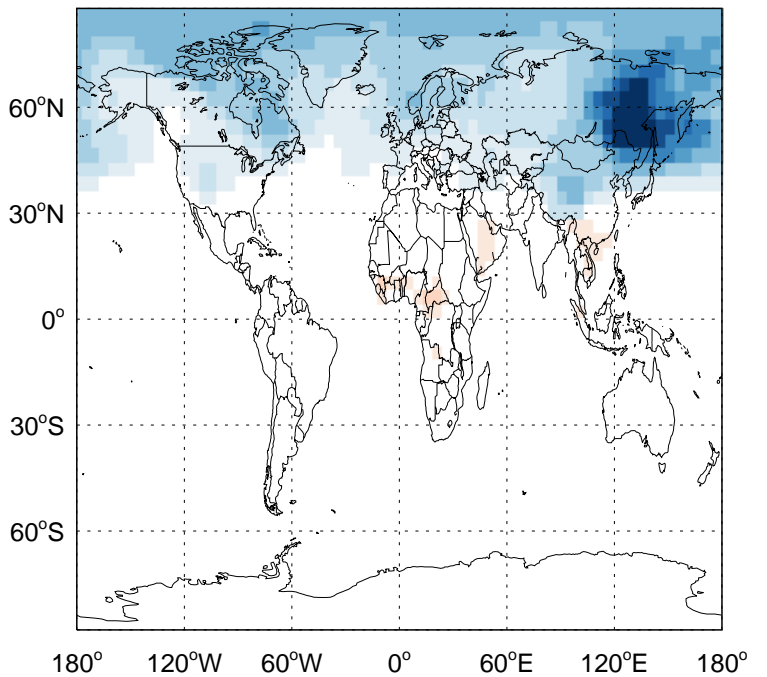
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>4</sub>- Diff @ 500 hPa for Apr



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

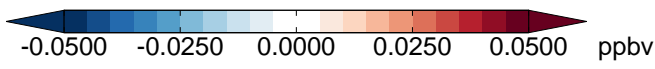
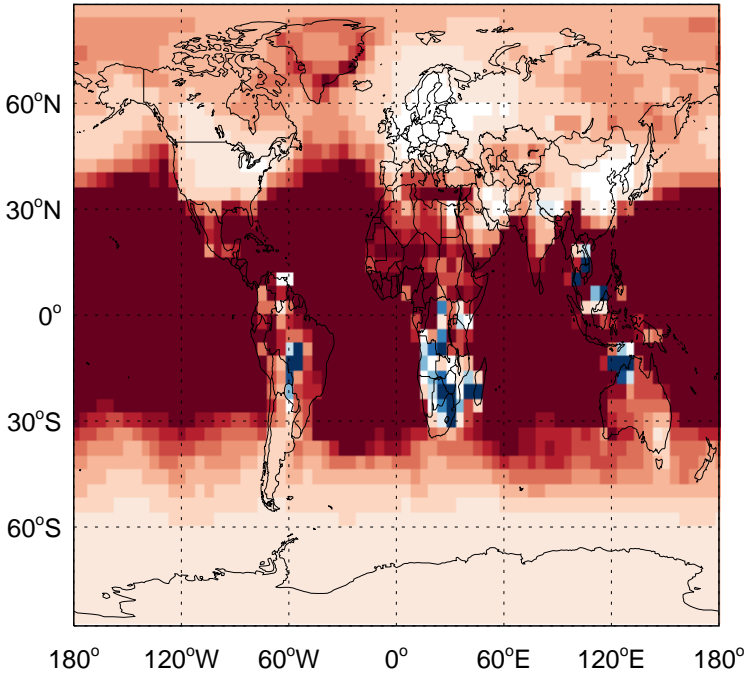


GC\_12.0.0 - v11-02e-Run1  
HNO<sub>4</sub>- Diff @ 500 hPa for Apr

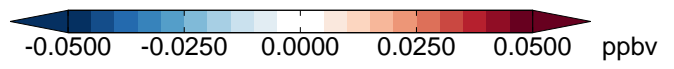
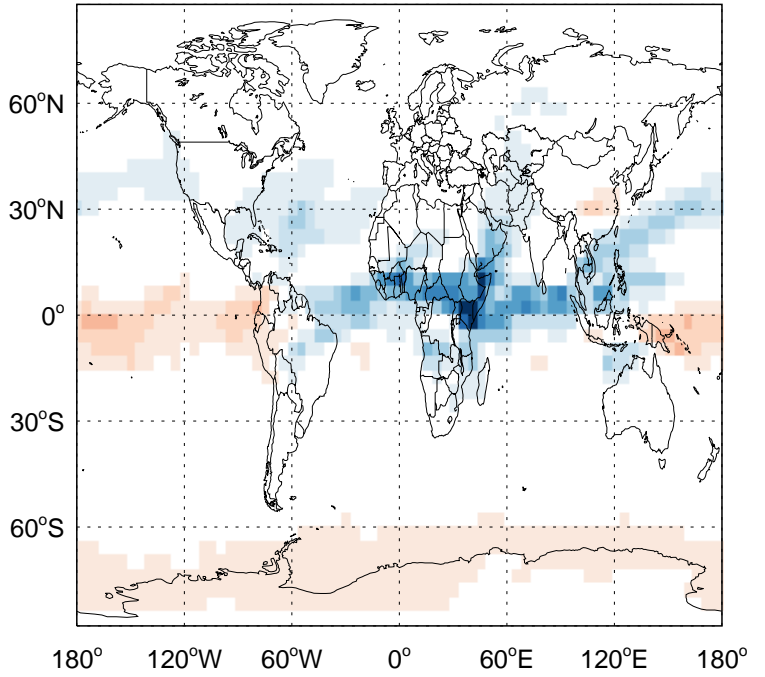


# GEOS-Chem Difference Maps at surface and 500 hPa

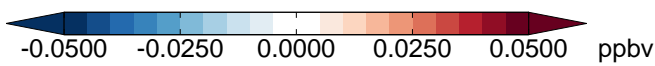
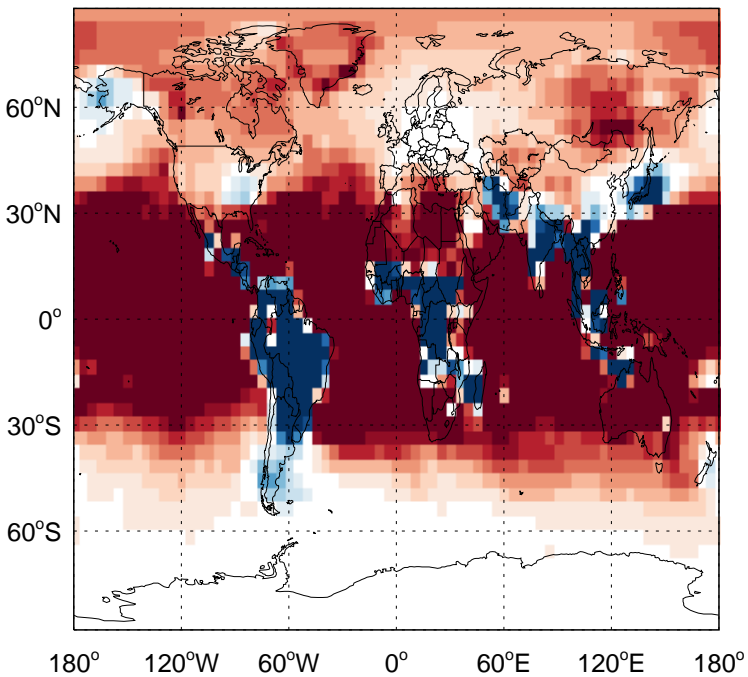
GC\_12.0.0 - v11-02f-Run1  
MP - Diff @ Surface for Apr



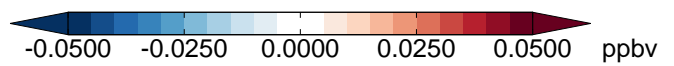
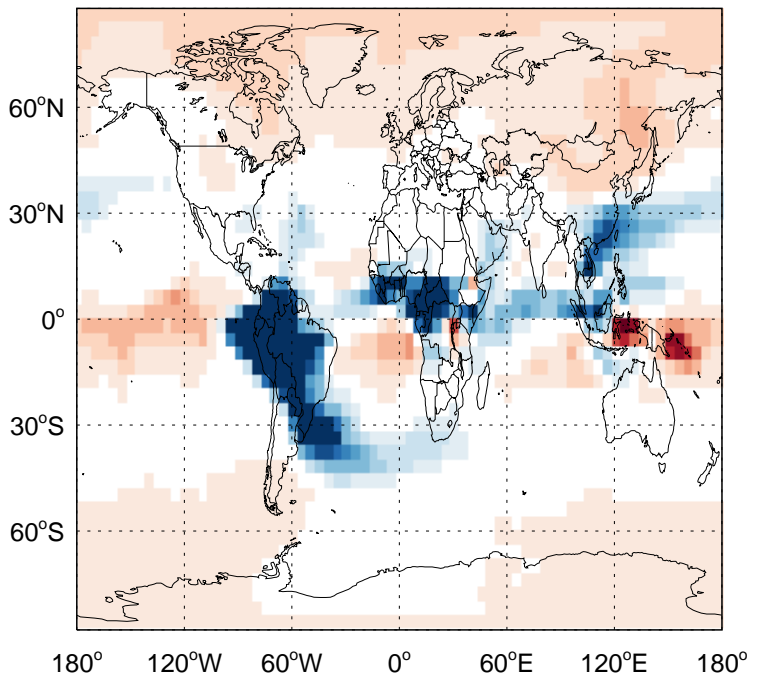
GC\_12.0.0 - v11-02f-Run1  
MP - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MP - Diff @ Surface for Apr



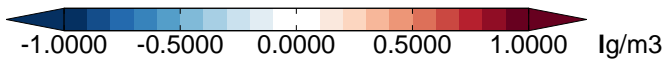
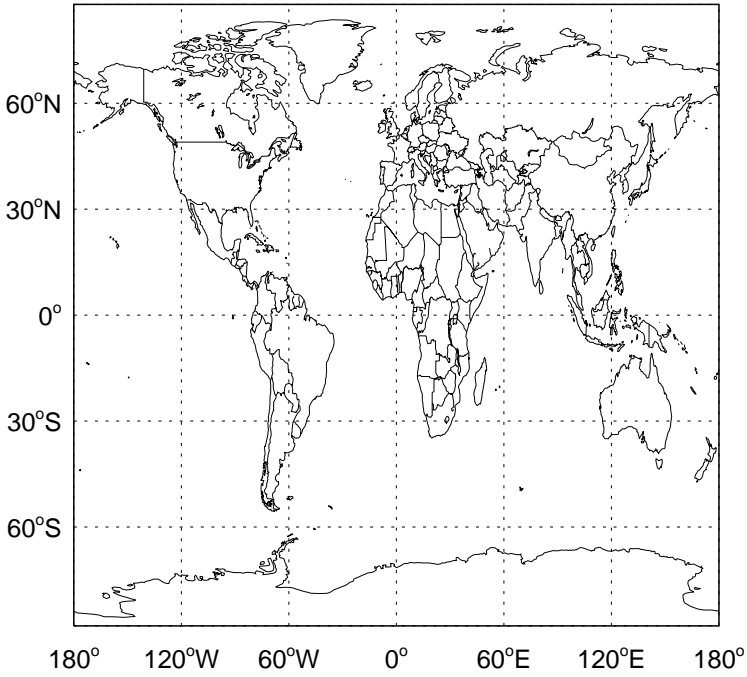
GC\_12.0.0 - v11-02e-Run1  
MP - Diff @ 500 hPa for Apr



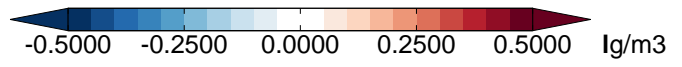


# GEOS-Chem Difference Maps at surface and 500 hPa

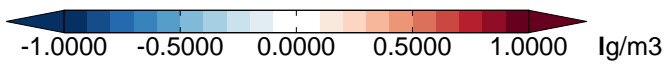
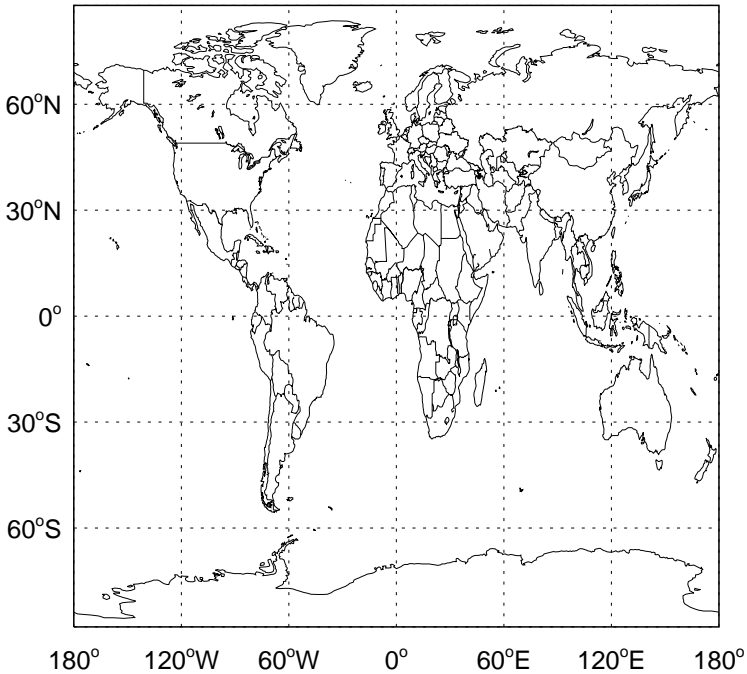
GC\_12.0.0 - v11-02f-Run1  
DMS - Diff @ Surface for Apr



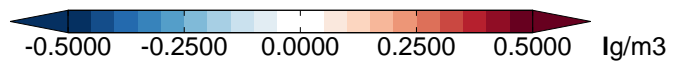
GC\_12.0.0 - v11-02f-Run1  
DMS- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DMS - Diff @ Surface for Apr

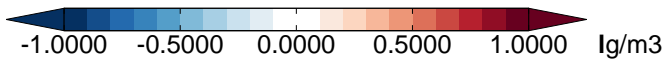
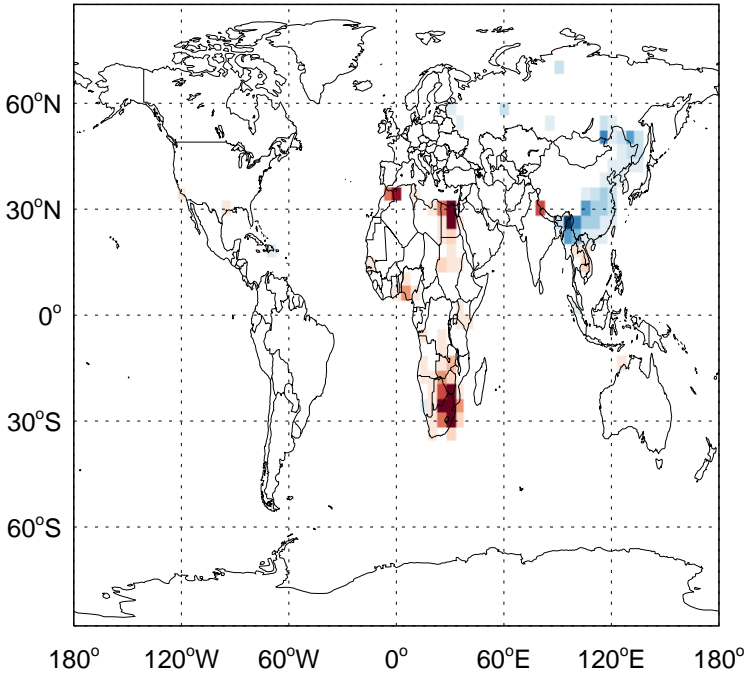


GC\_12.0.0 - v11-02e-Run1  
DMS- Diff @ 500 hPa for Apr

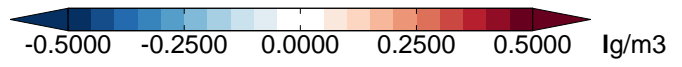
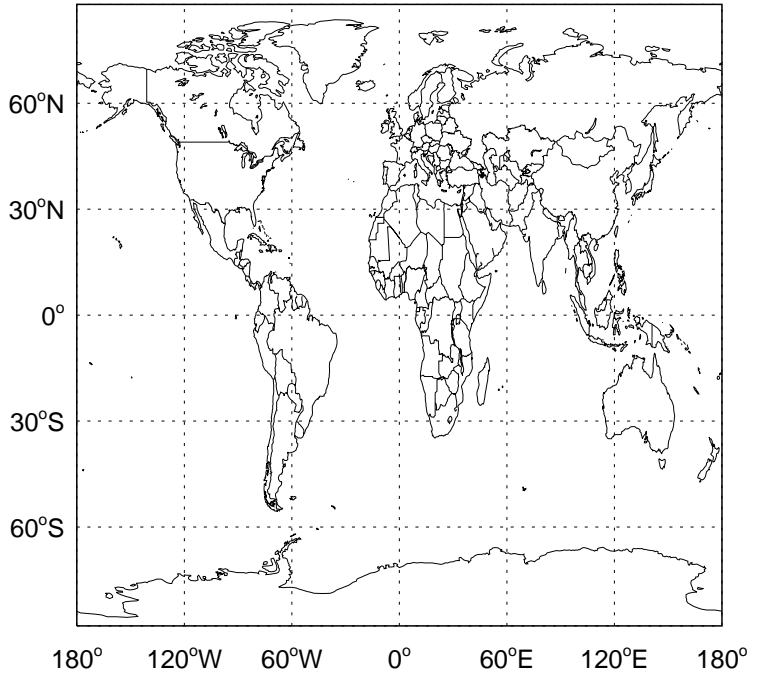


# GEOS-Chem Difference Maps at surface and 500 hPa

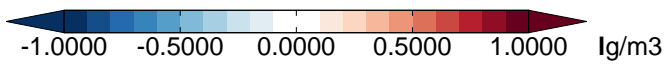
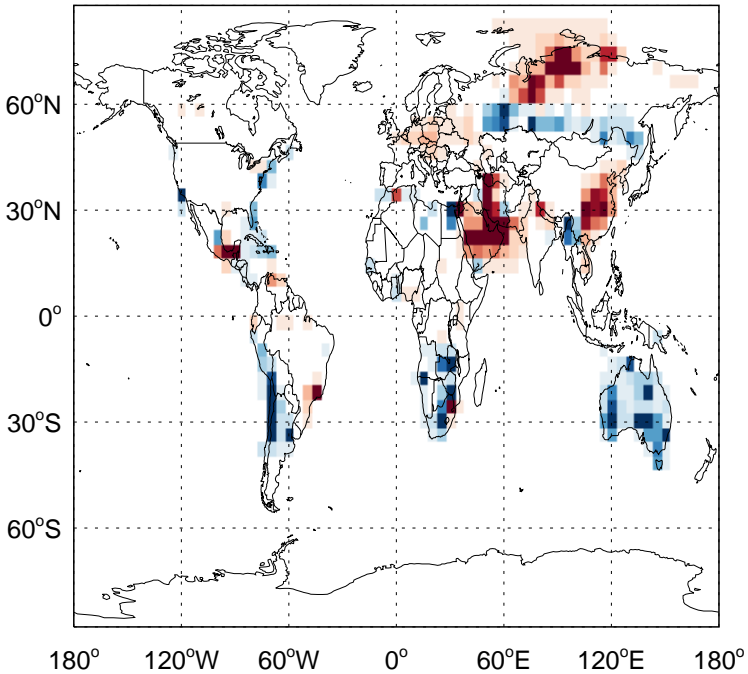
GC\_12.0.0 - v11-02f-Run1  
SO<sub>2</sub> - Diff @ Surface for Apr



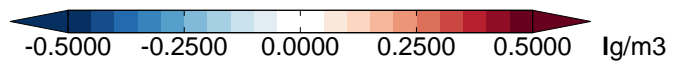
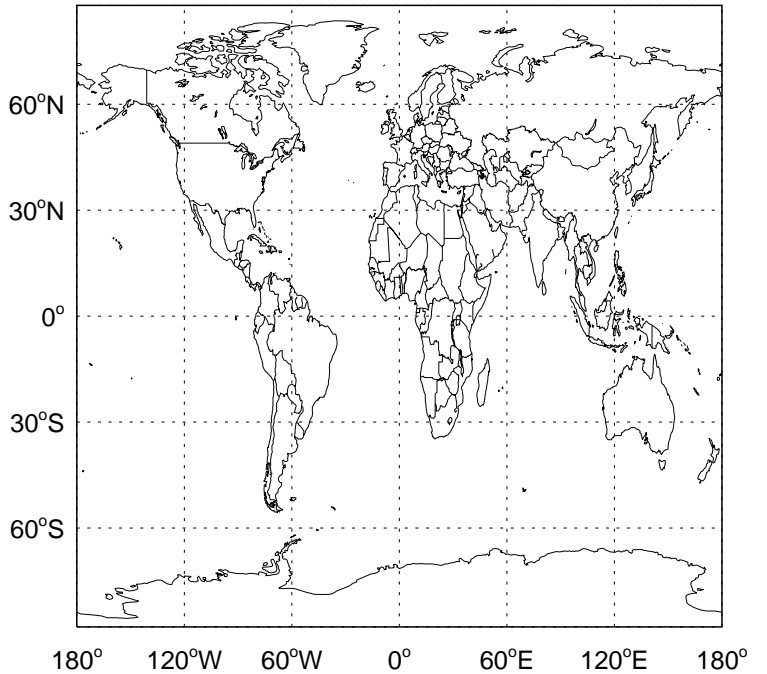
GC\_12.0.0 - v11-02f-Run1  
SO<sub>2</sub>- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SO<sub>2</sub> - Diff @ Surface for Apr

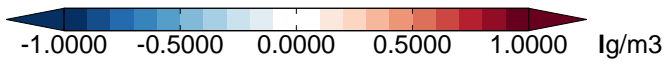
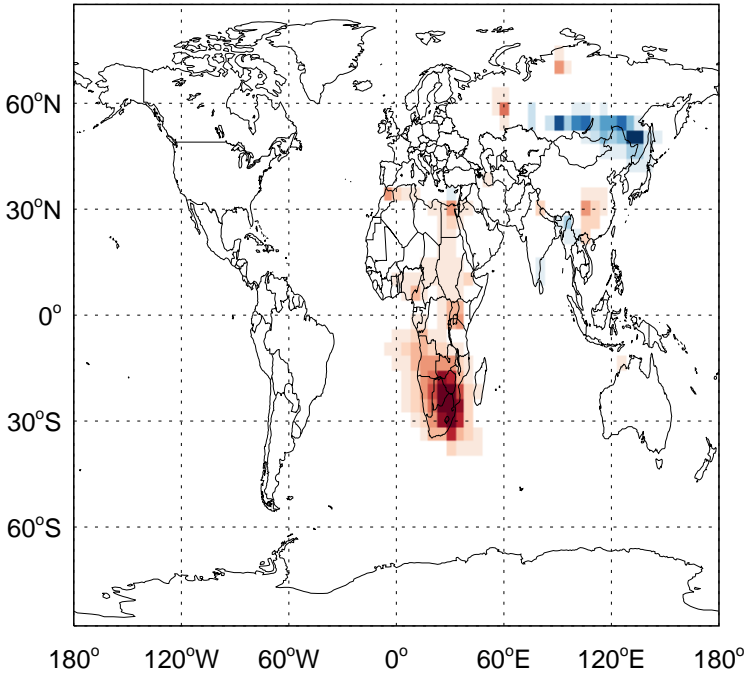


GC\_12.0.0 - v11-02e-Run1  
SO<sub>2</sub>- Diff @ 500 hPa for Apr

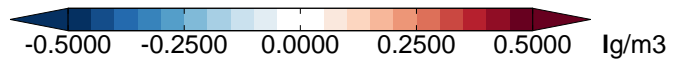
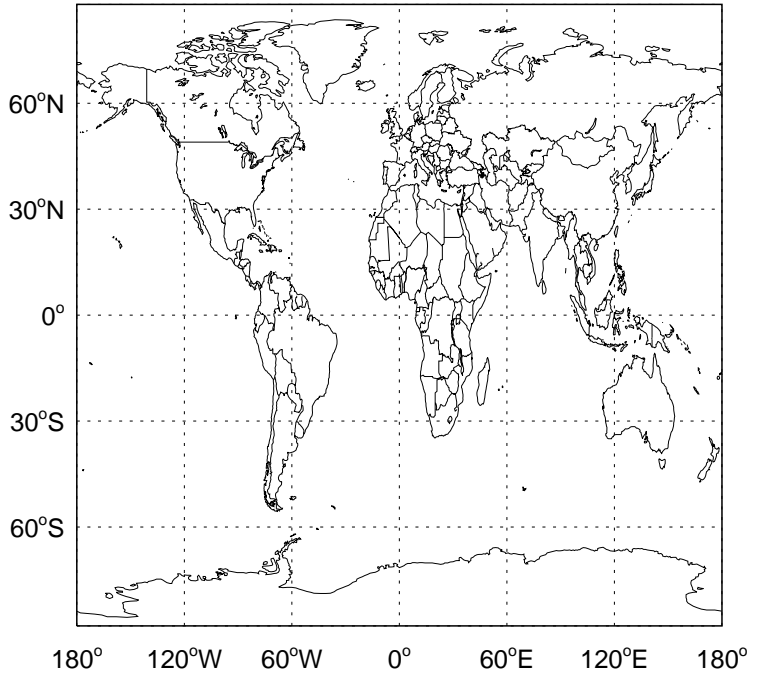


# GEOS-Chem Difference Maps at surface and 500 hPa

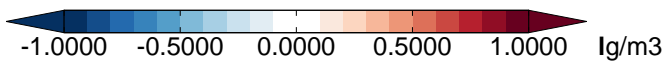
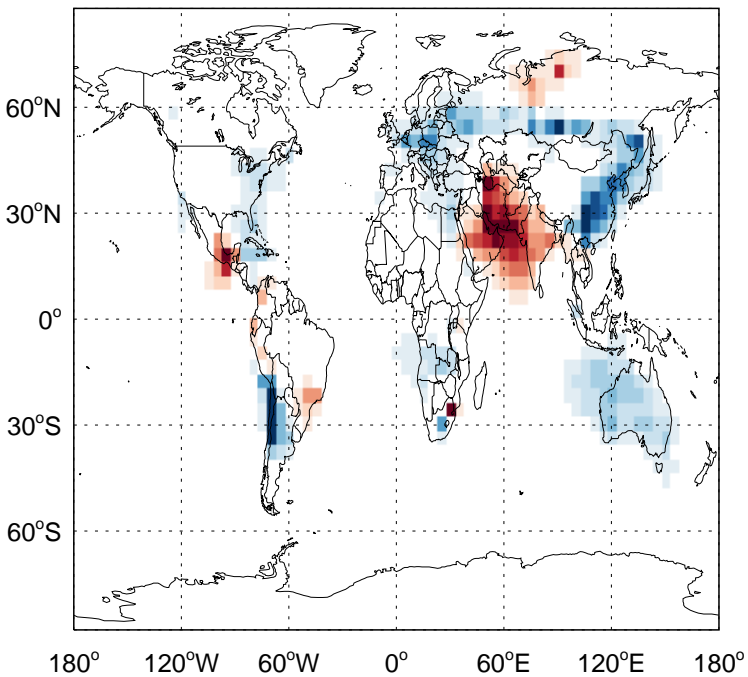
GC\_12.0.0 - v11-02f-Run1  
SO4- Diff @ Surface for Apr



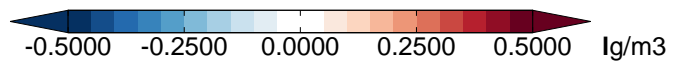
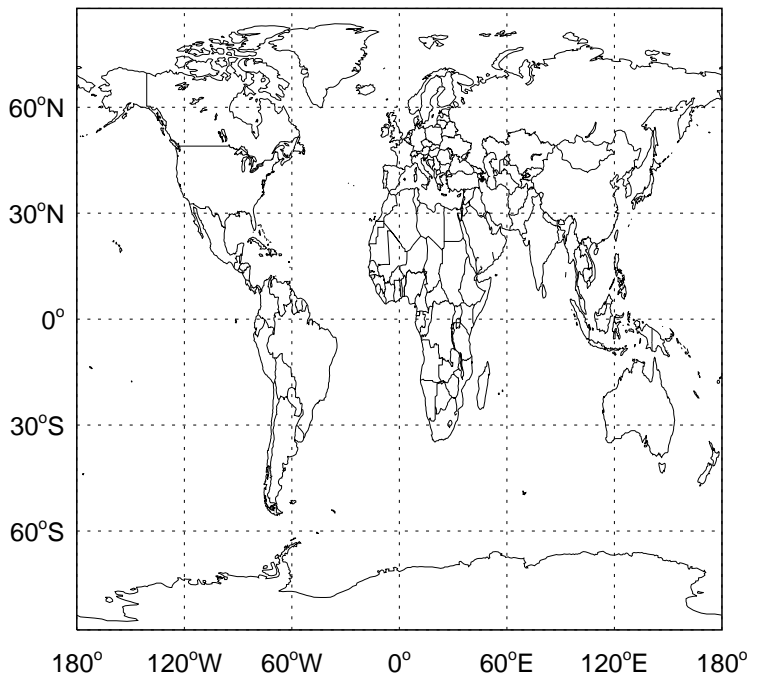
GC\_12.0.0 - v11-02f-Run1  
SO4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SO4- Diff @ Surface for Apr

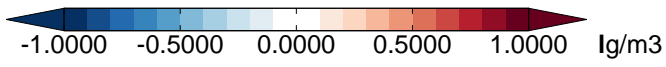
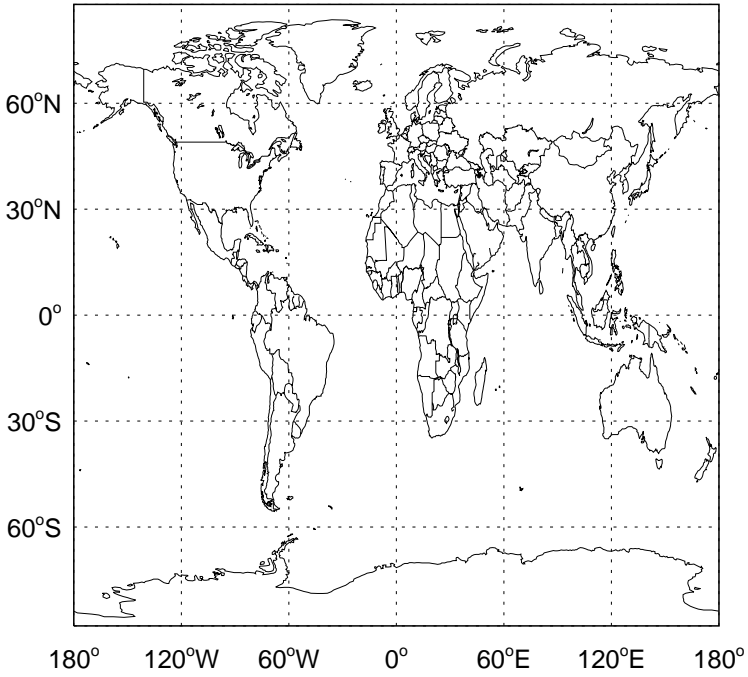


GC\_12.0.0 - v11-02e-Run1  
SO4- Diff @ 500 hPa for Apr

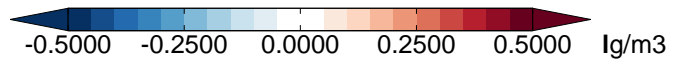
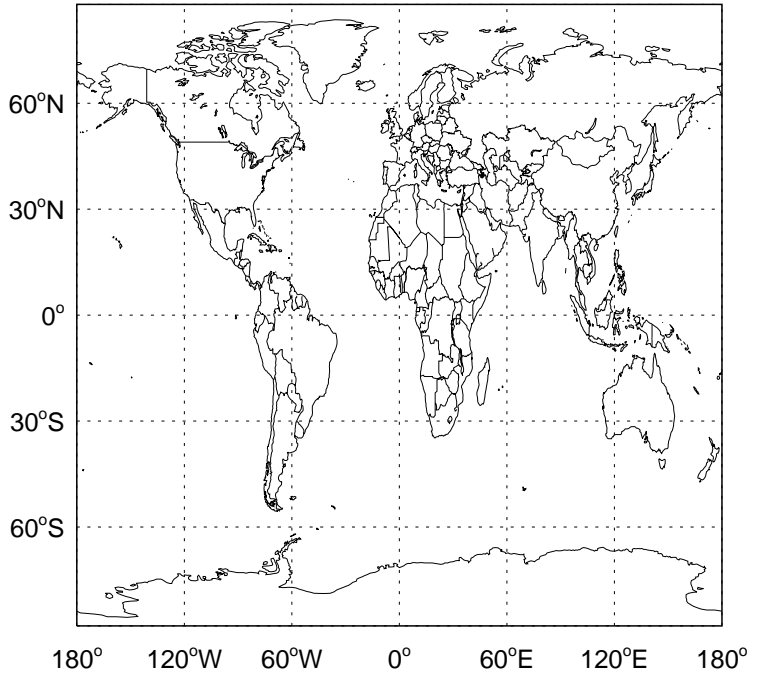


# GEOS-Chem Difference Maps at surface and 500 hPa

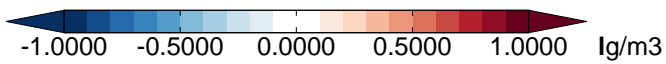
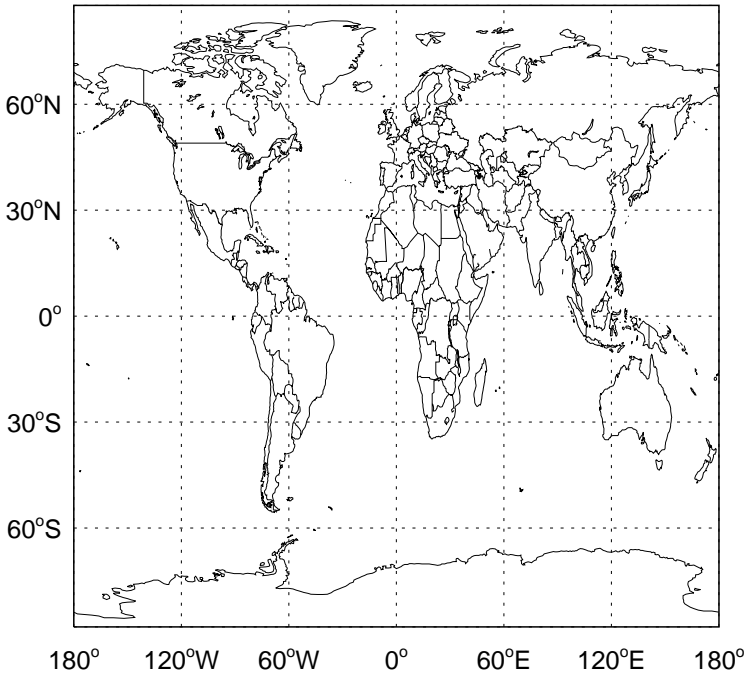
GC\_12.0.0 - v11-02f-Run1  
SO4s - Diff @ Surface for Apr



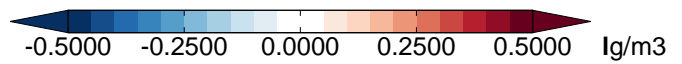
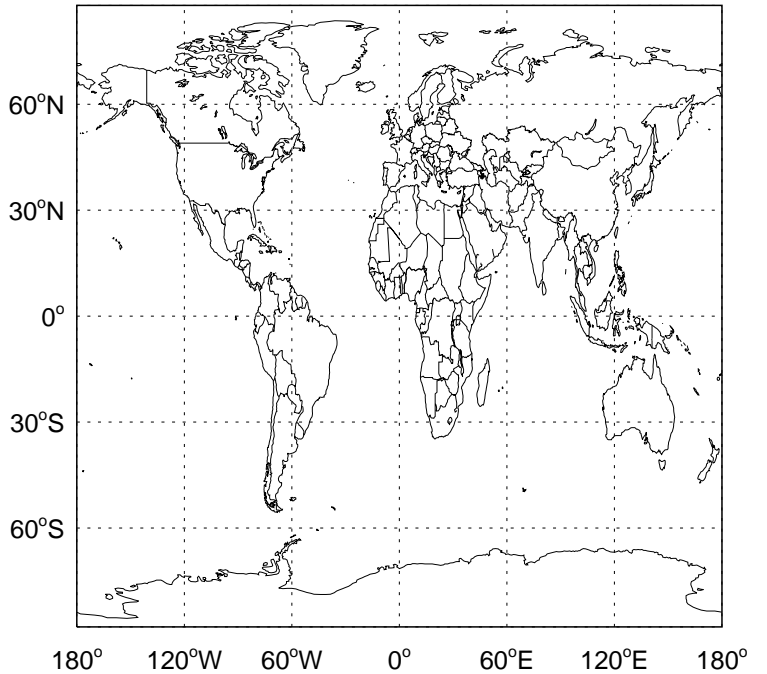
GC\_12.0.0 - v11-02f-Run1  
SO4s- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SO4s - Diff @ Surface for Apr

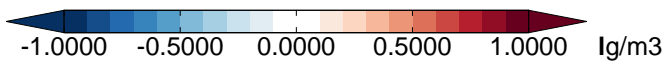
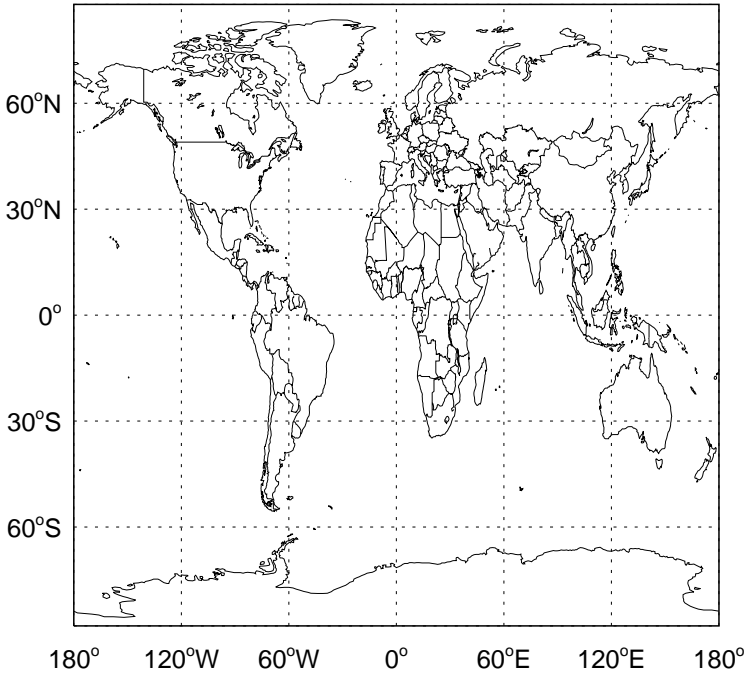


GC\_12.0.0 - v11-02e-Run1  
SO4s- Diff @ 500 hPa for Apr

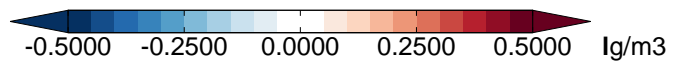
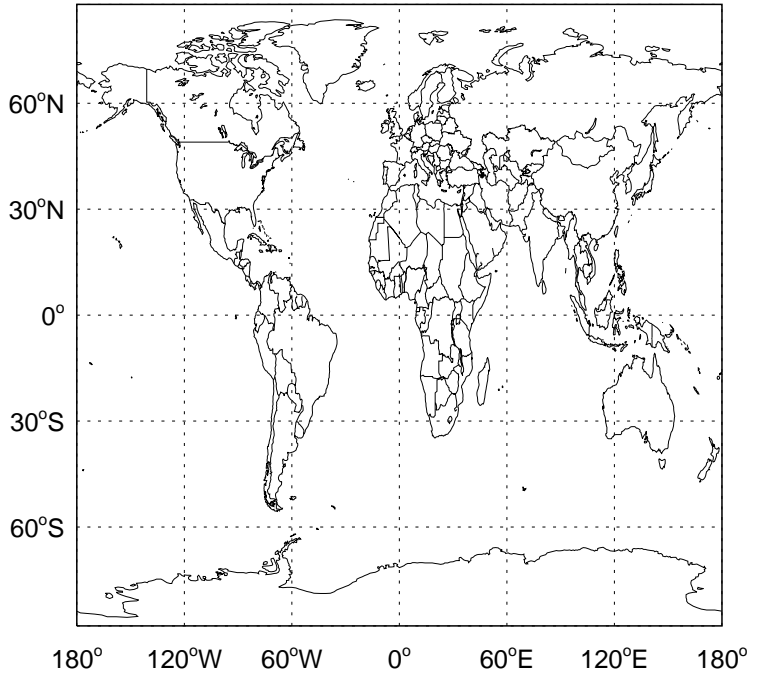


# GEOS-Chem Difference Maps at surface and 500 hPa

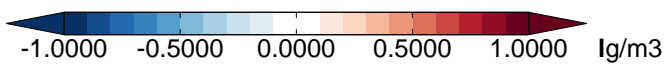
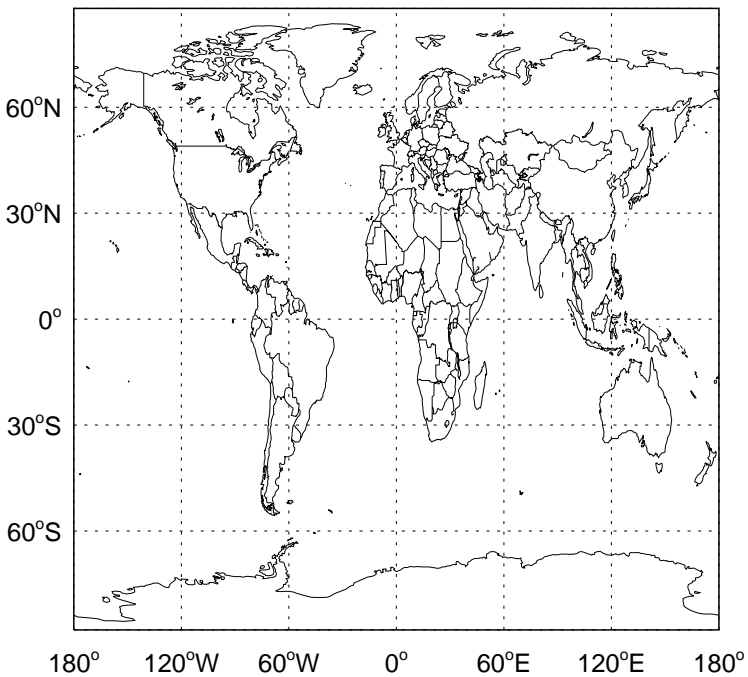
GC\_12.0.0 - v11-02f-Run1  
MSA - Diff @ Surface for Apr



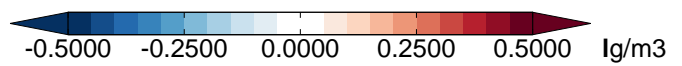
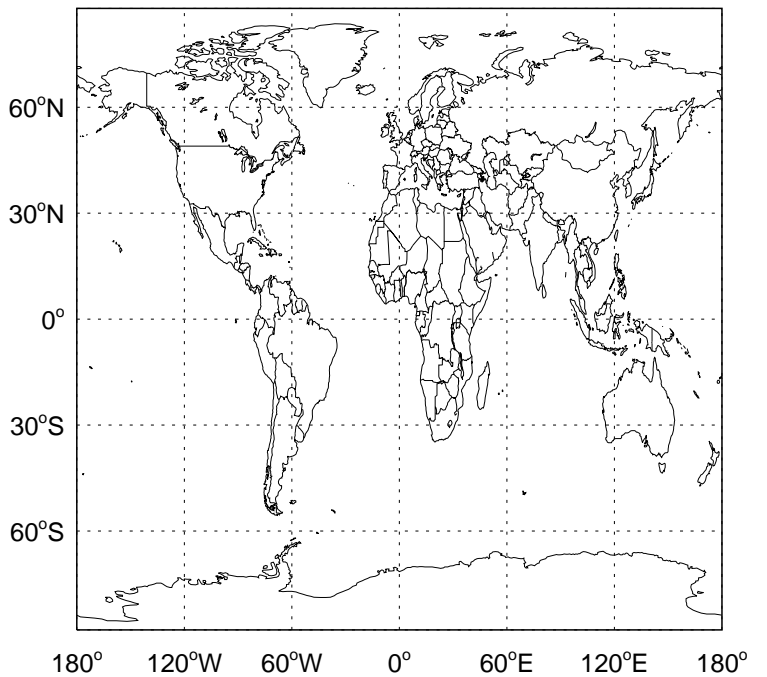
GC\_12.0.0 - v11-02f-Run1  
MSA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MSA - Diff @ Surface for Apr

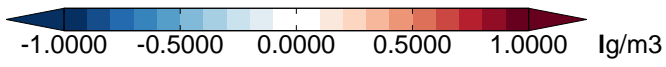
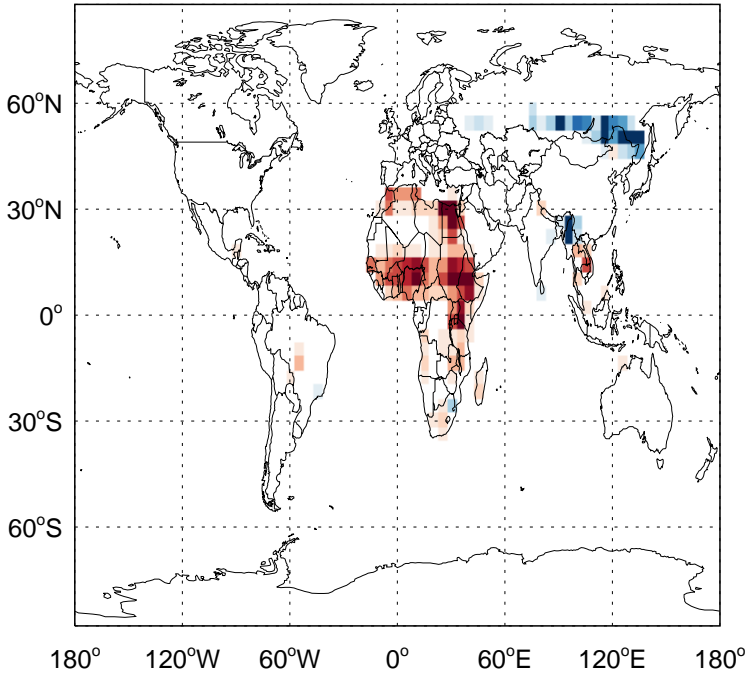


GC\_12.0.0 - v11-02e-Run1  
MSA- Diff @ 500 hPa for Apr

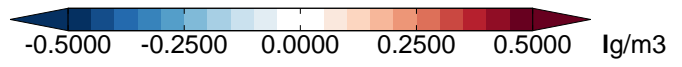
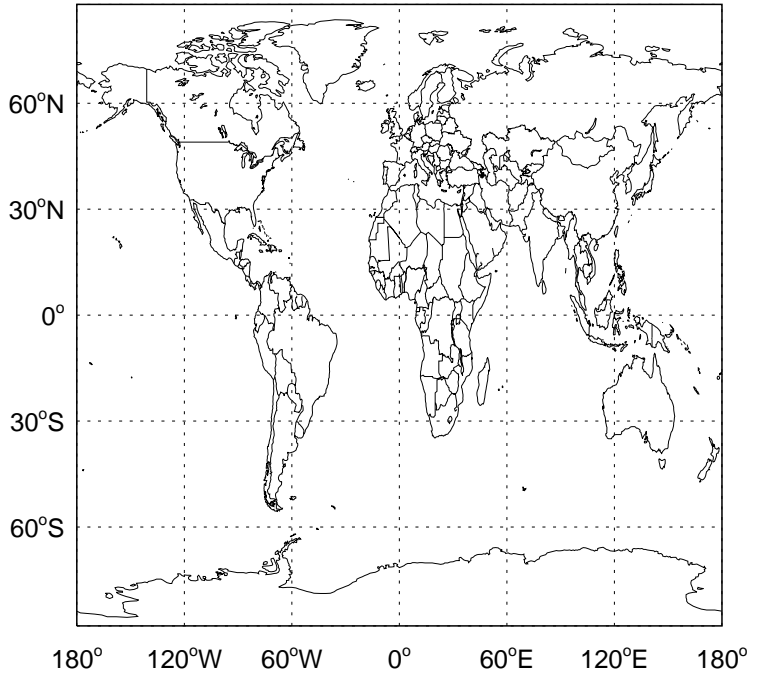


# GEOS-Chem Difference Maps at surface and 500 hPa

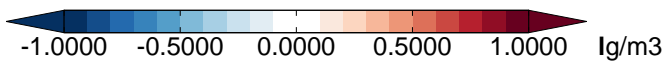
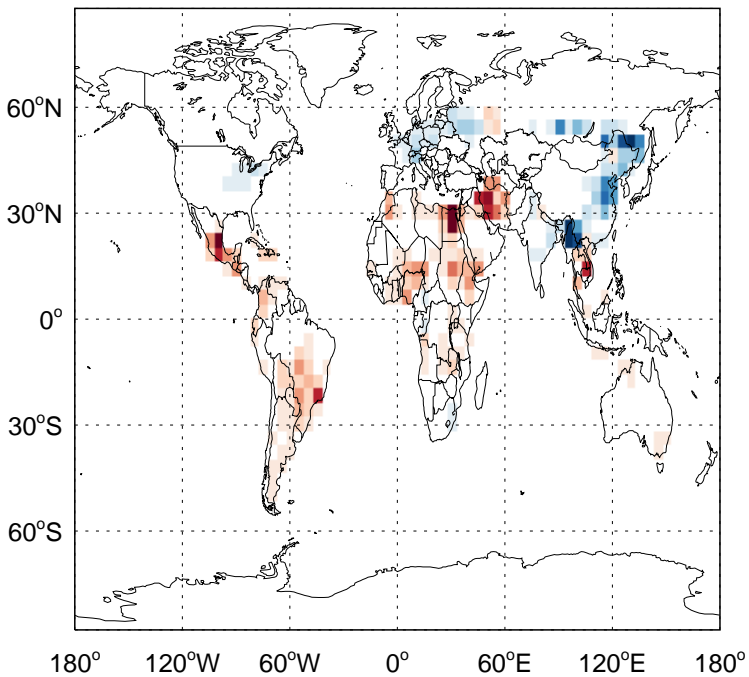
GC\_12.0.0 - v11-02f-Run1  
NH3 - Diff @ Surface for Apr



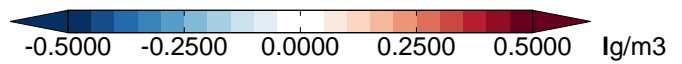
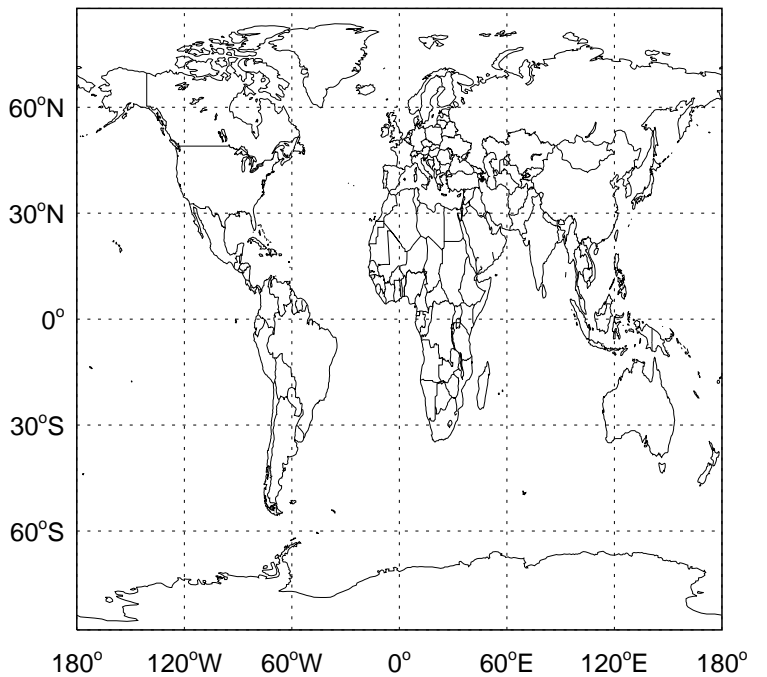
GC\_12.0.0 - v11-02f-Run1  
NH3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NH3 - Diff @ Surface for Apr

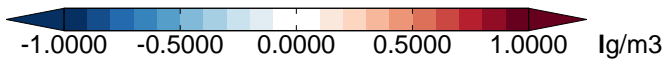
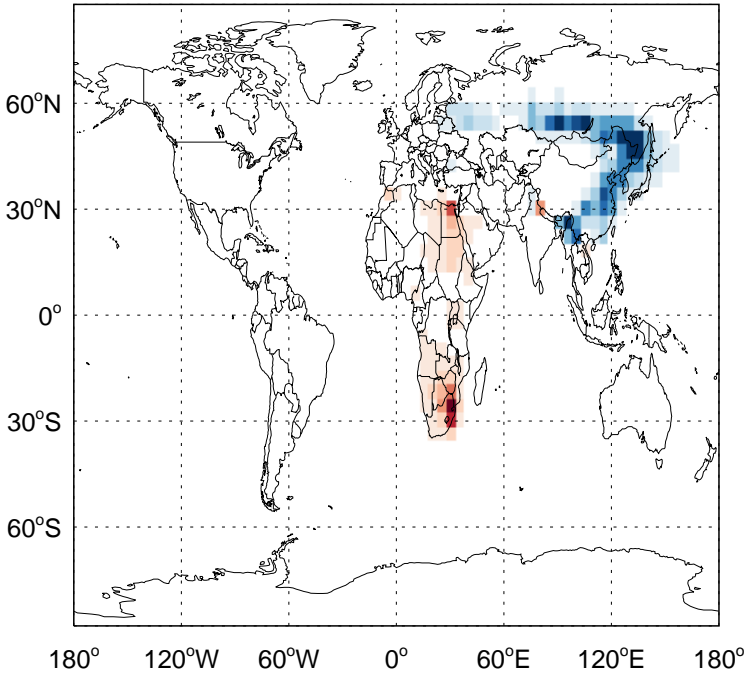


GC\_12.0.0 - v11-02e-Run1  
NH3- Diff @ 500 hPa for Apr

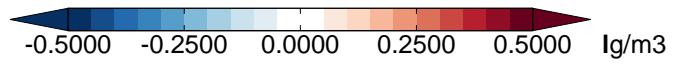
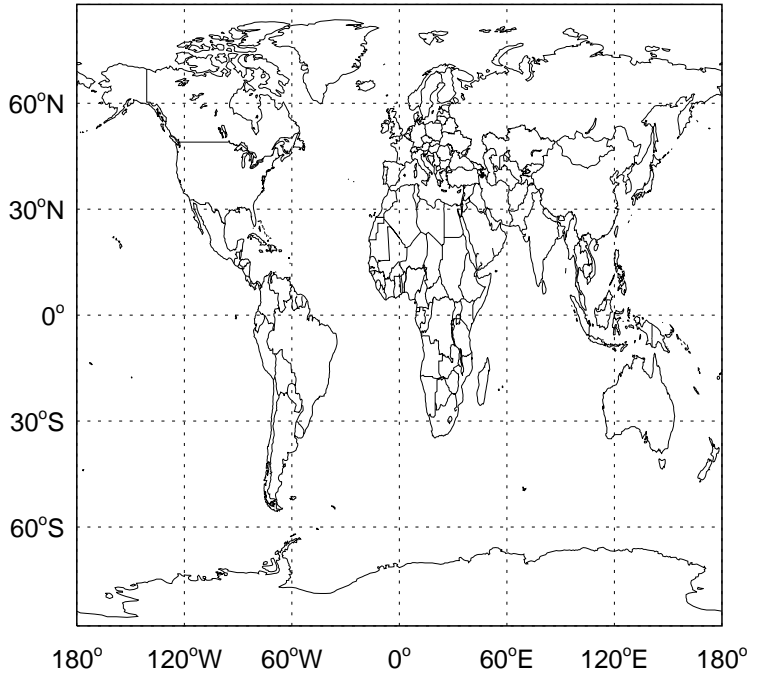


# GEOS-Chem Difference Maps at surface and 500 hPa

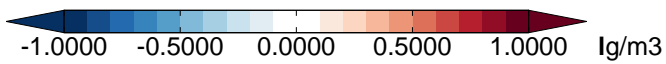
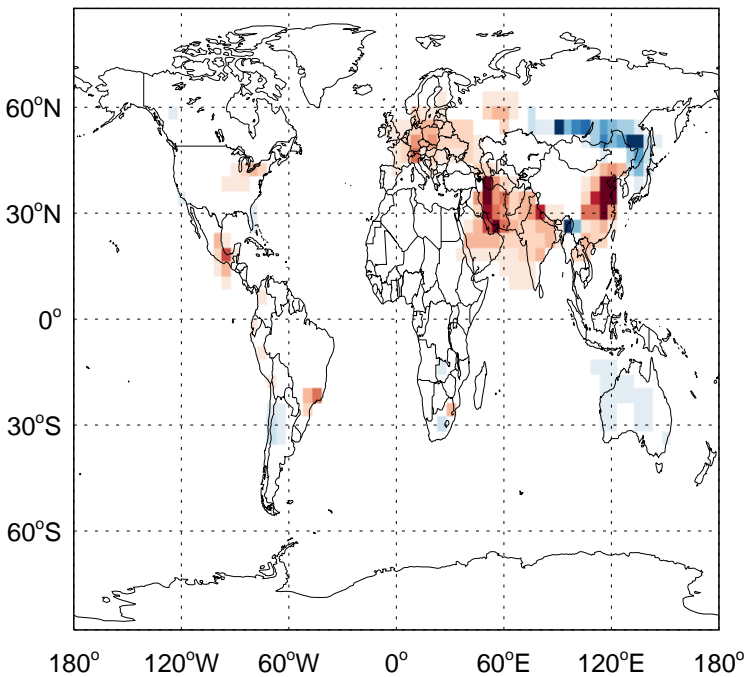
GC\_12.0.0 - v11-02f-Run1  
NH4 - Diff @ Surface for Apr



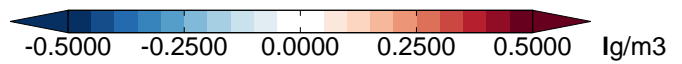
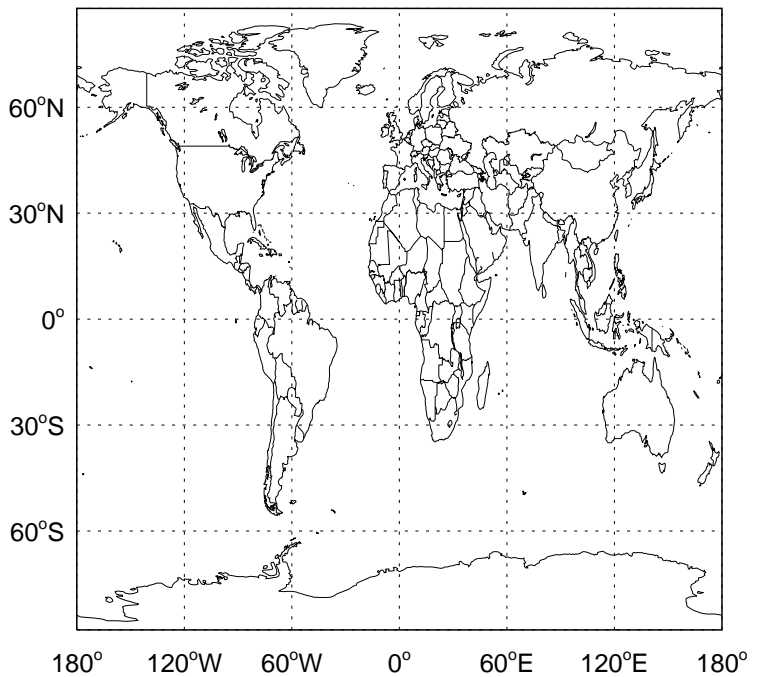
GC\_12.0.0 - v11-02f-Run1  
NH4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NH4 - Diff @ Surface for Apr

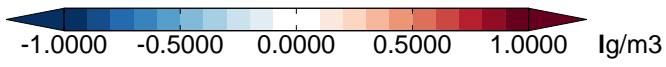
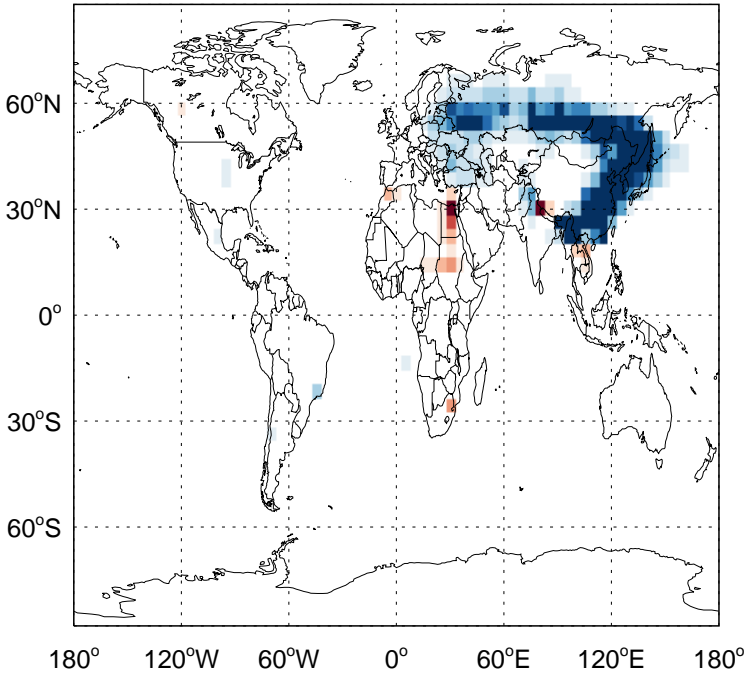


GC\_12.0.0 - v11-02e-Run1  
NH4- Diff @ 500 hPa for Apr

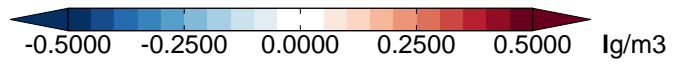
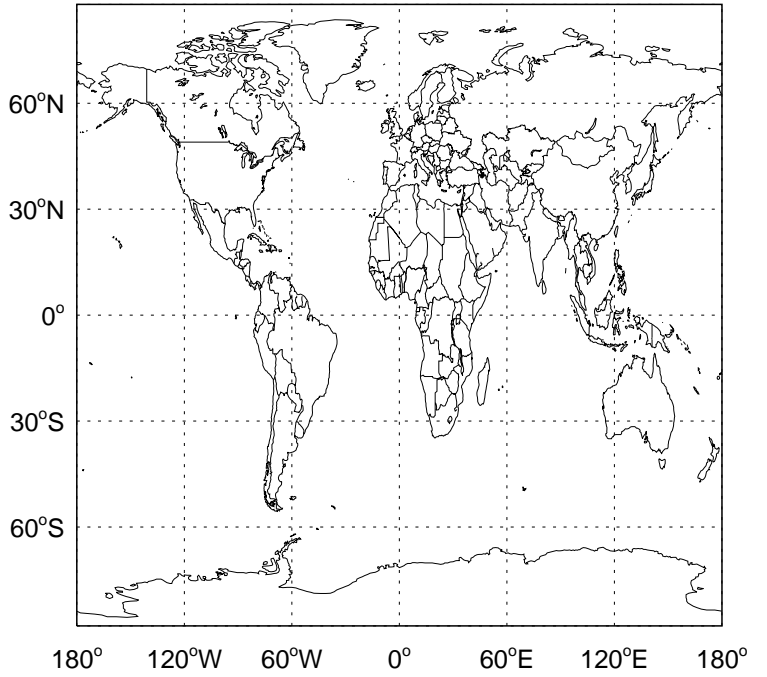


# GEOS-Chem Difference Maps at surface and 500 hPa

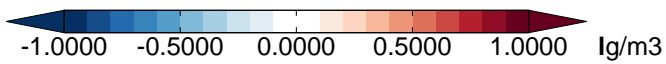
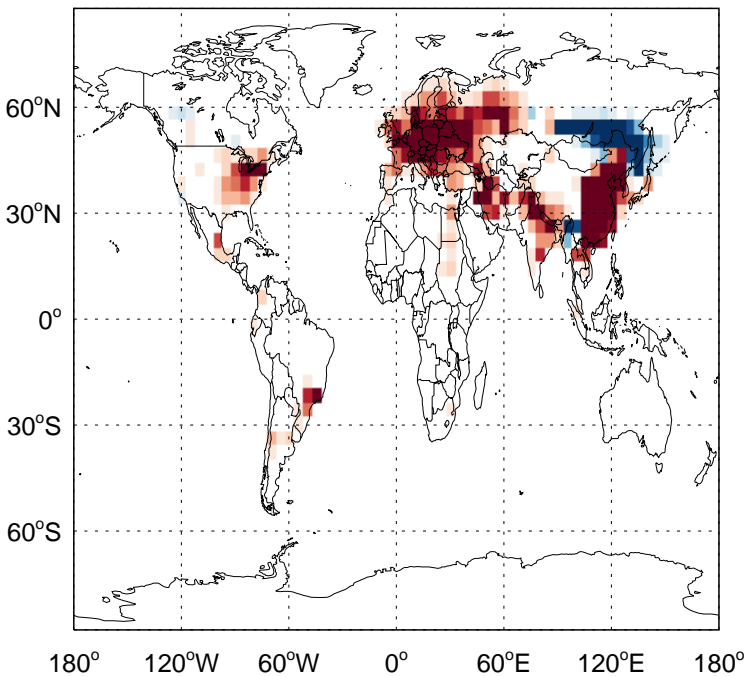
GC\_12.0.0 - v11-02f-Run1  
NIT - Diff @ Surface for Apr



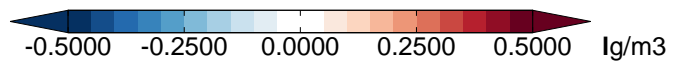
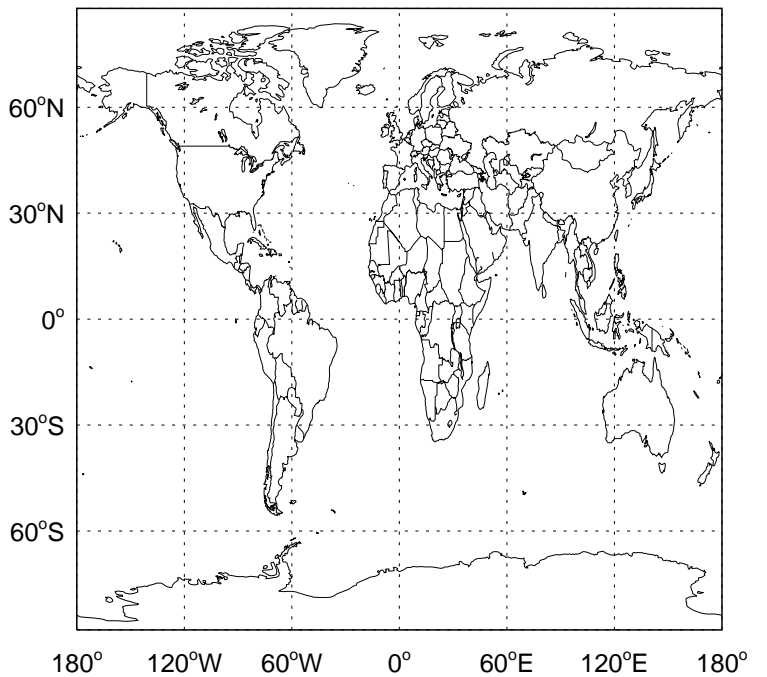
GC\_12.0.0 - v11-02f-Run1  
NIT- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NIT - Diff @ Surface for Apr



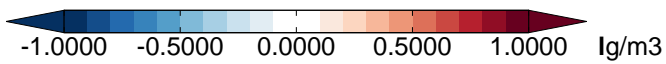
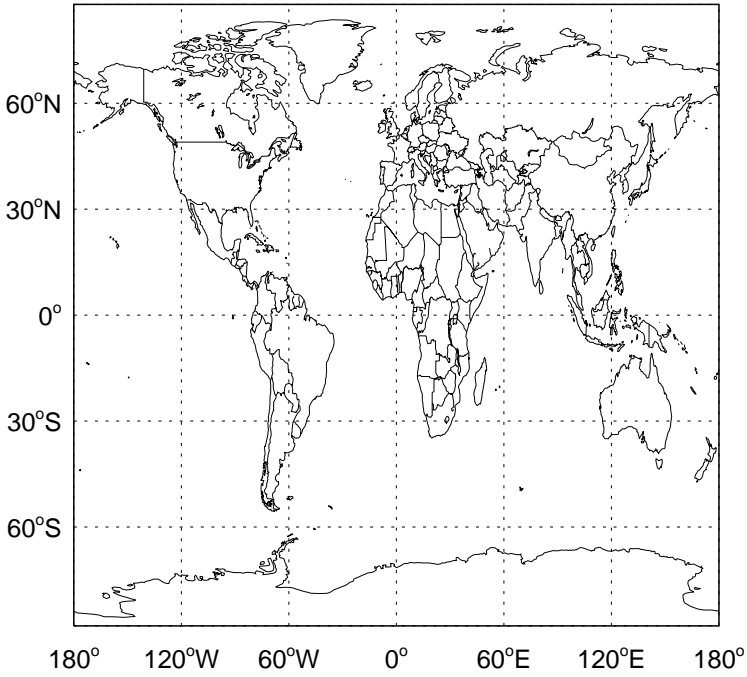
GC\_12.0.0 - v11-02e-Run1  
NIT- Diff @ 500 hPa for Apr



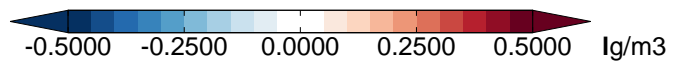


# GEOS-Chem Difference Maps at surface and 500 hPa

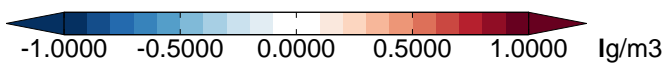
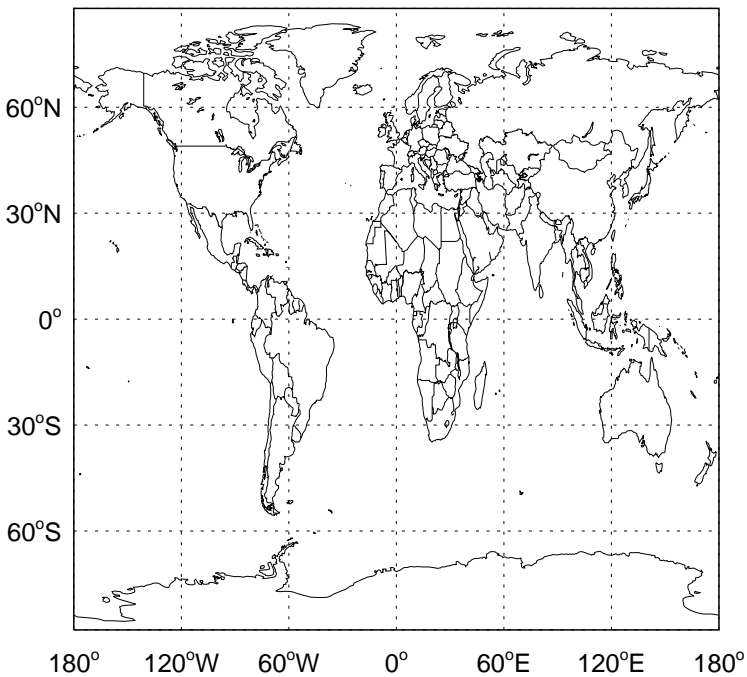
GC\_12.0.0 - v11-02f-Run1  
NITs - Diff @ Surface for Apr



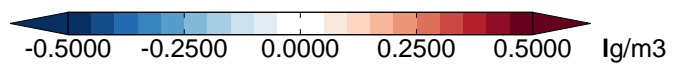
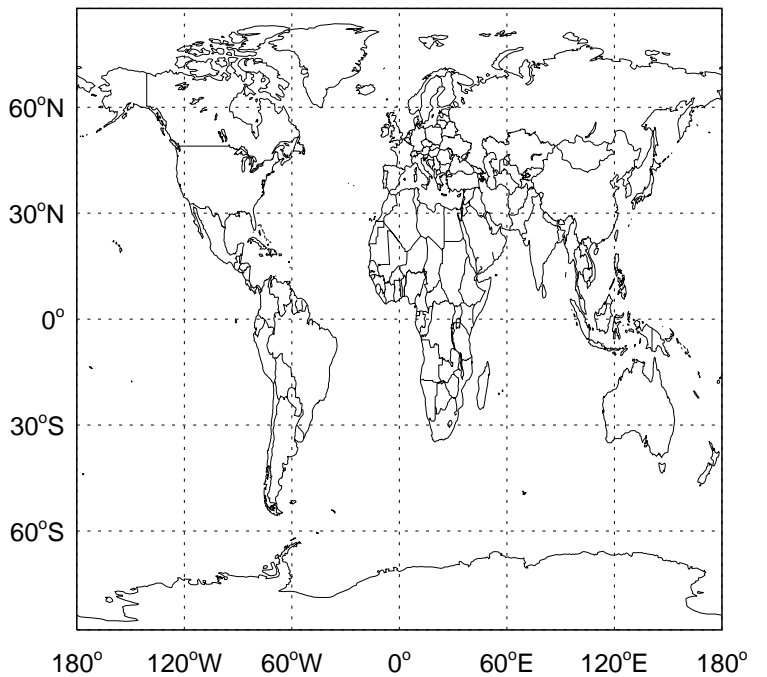
GC\_12.0.0 - v11-02f-Run1  
NITs- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NITs - Diff @ Surface for Apr

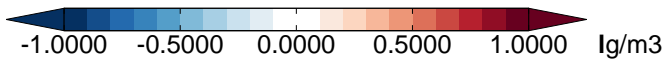
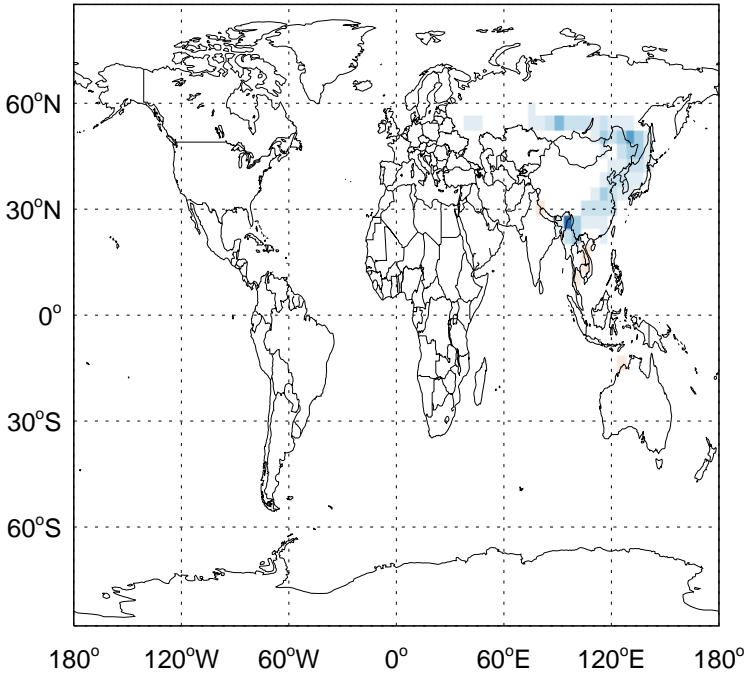


GC\_12.0.0 - v11-02e-Run1  
NITs- Diff @ 500 hPa for Apr

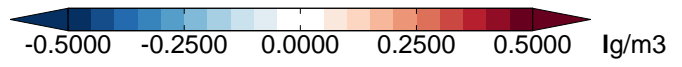
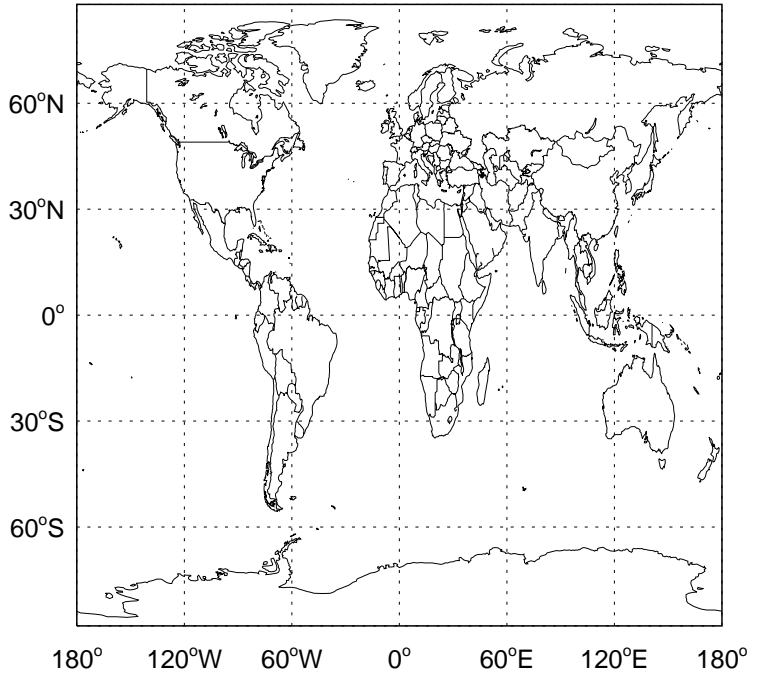


# GEOS-Chem Difference Maps at surface and 500 hPa

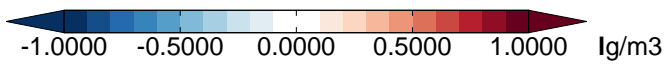
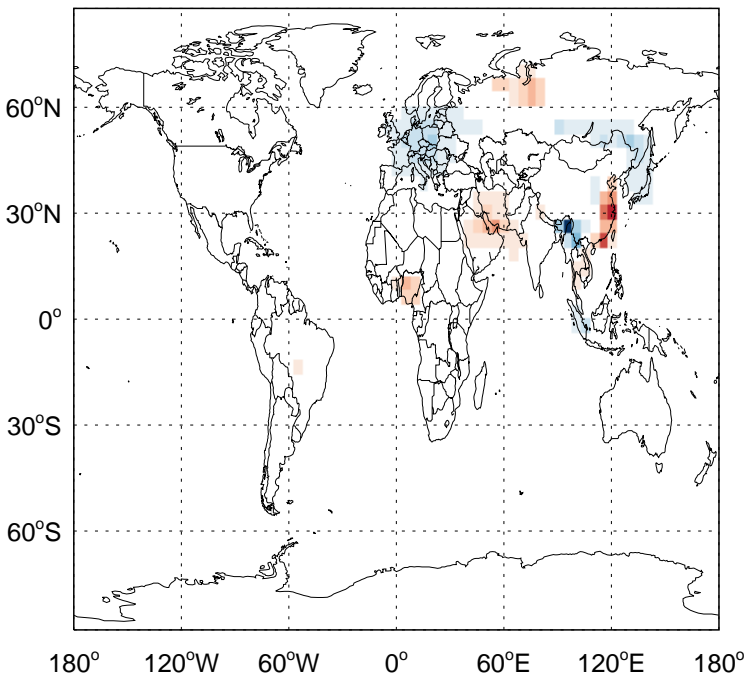
GC\_12.0.0 - v11-02f-Run1  
BCPI - Diff @ Surface for Apr



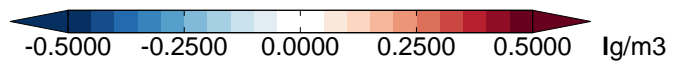
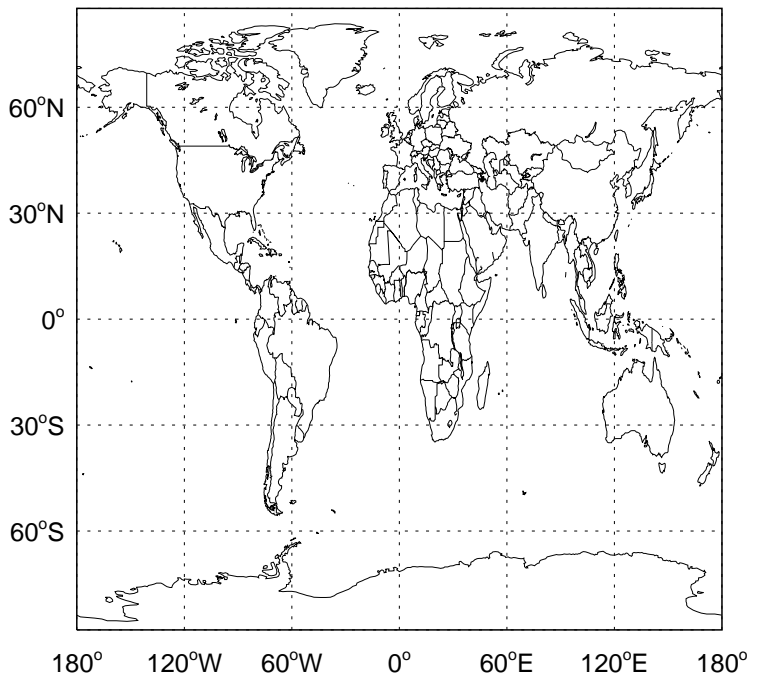
GC\_12.0.0 - v11-02f-Run1  
BCPI - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BCPI - Diff @ Surface for Apr

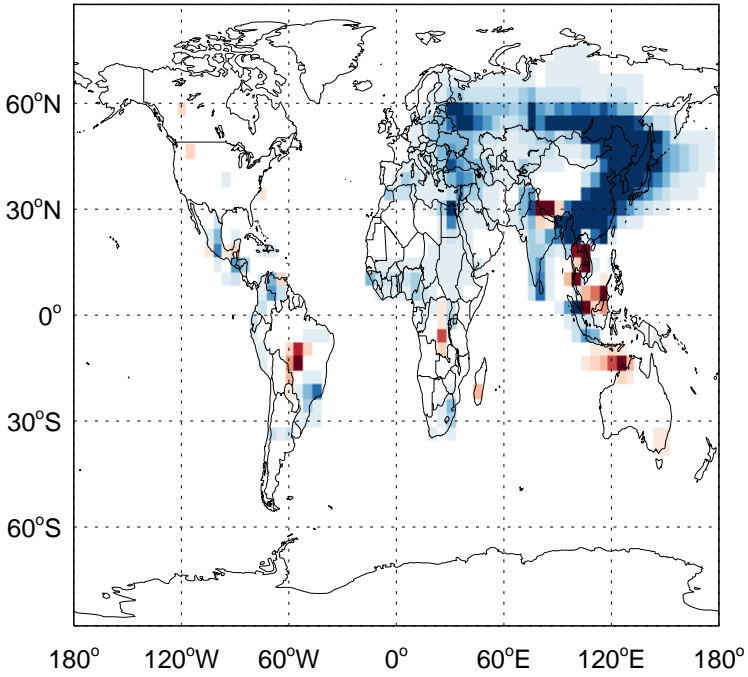


GC\_12.0.0 - v11-02e-Run1  
BCPI - Diff @ 500 hPa for Apr

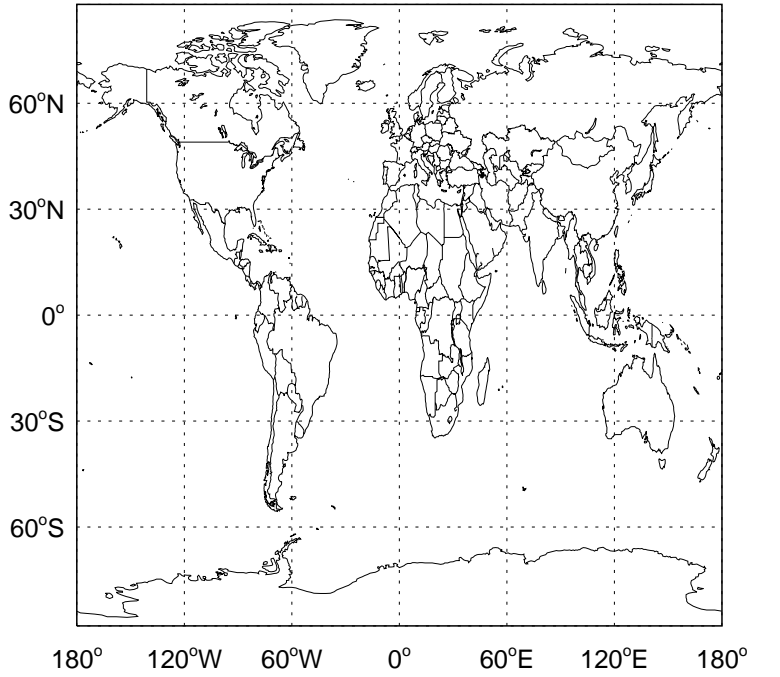


# GEOS-Chem Difference Maps at surface and 500 hPa

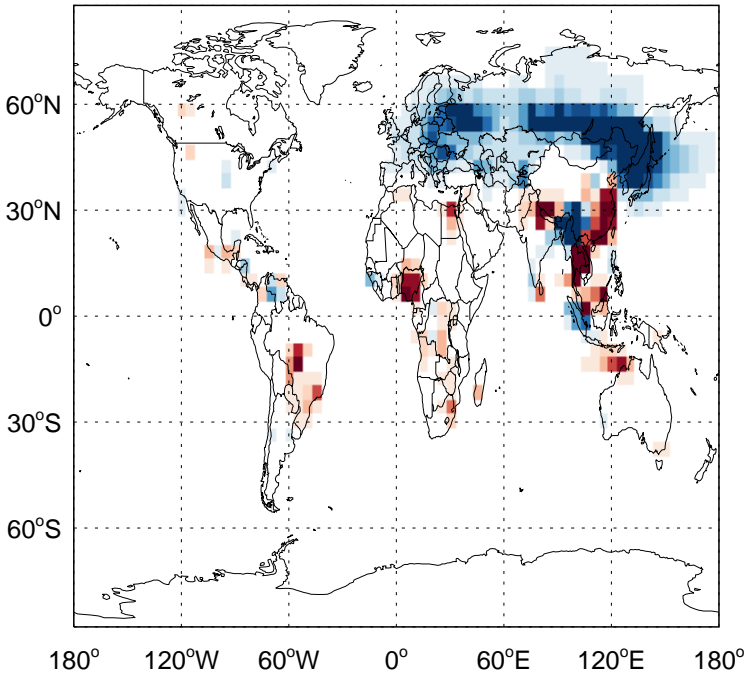
GC\_12.0.0 - v11-02f-Run1  
OCPI - Diff @ Surface for Apr



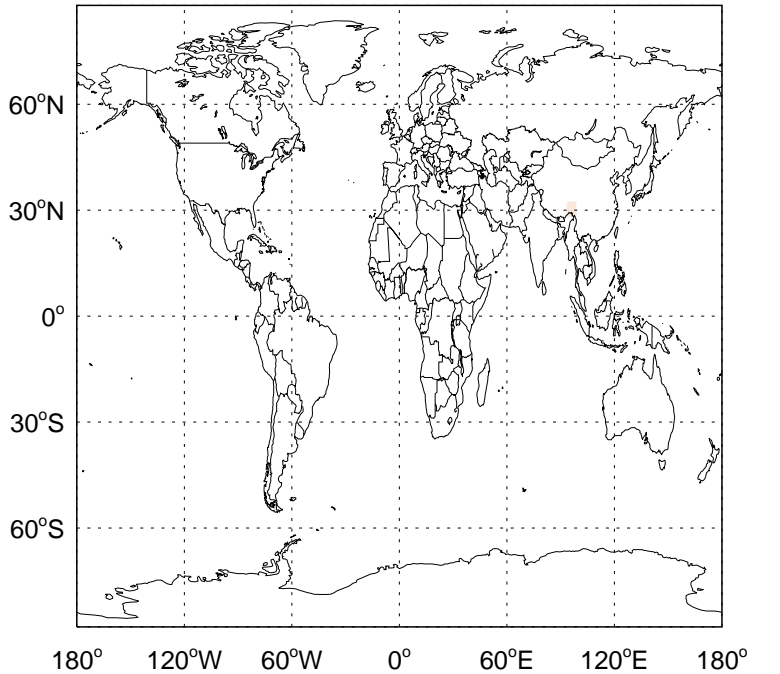
GC\_12.0.0 - v11-02f-Run1  
OCPI- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
OCPI - Diff @ Surface for Apr

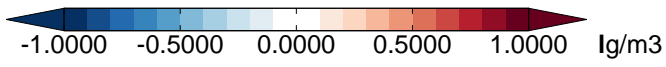
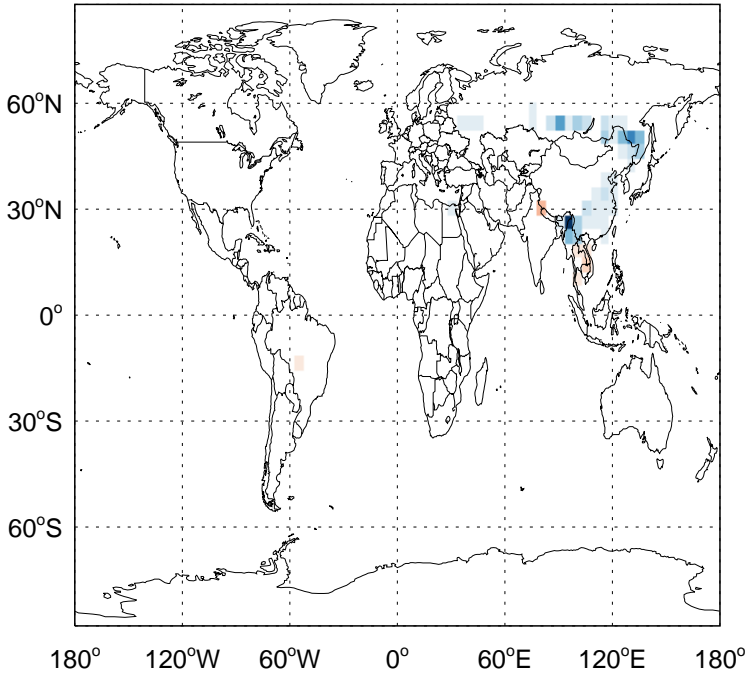


GC\_12.0.0 - v11-02e-Run1  
OCPI- Diff @ 500 hPa for Apr

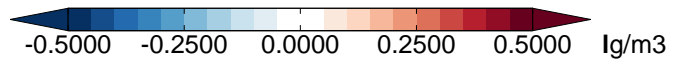
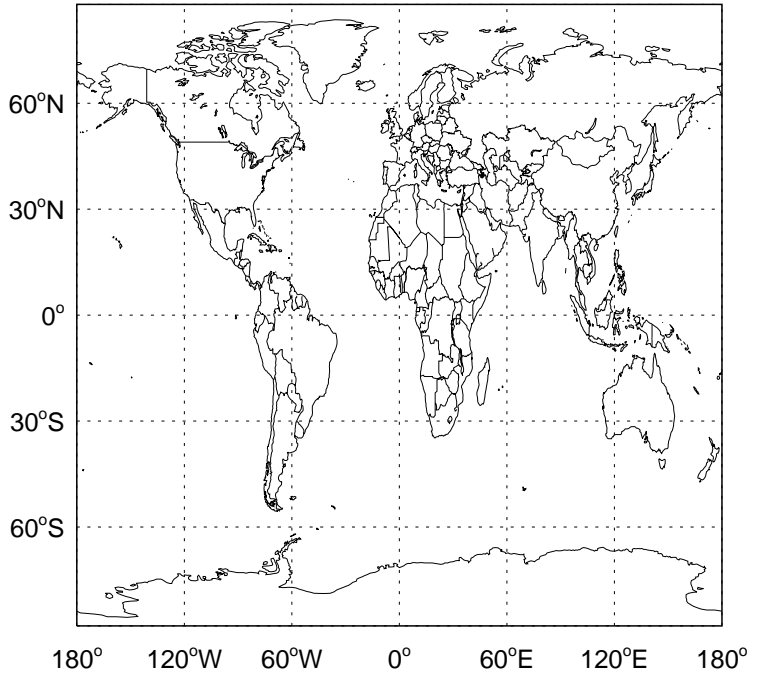


# GEOS-Chem Difference Maps at surface and 500 hPa

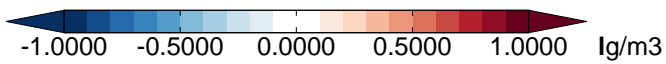
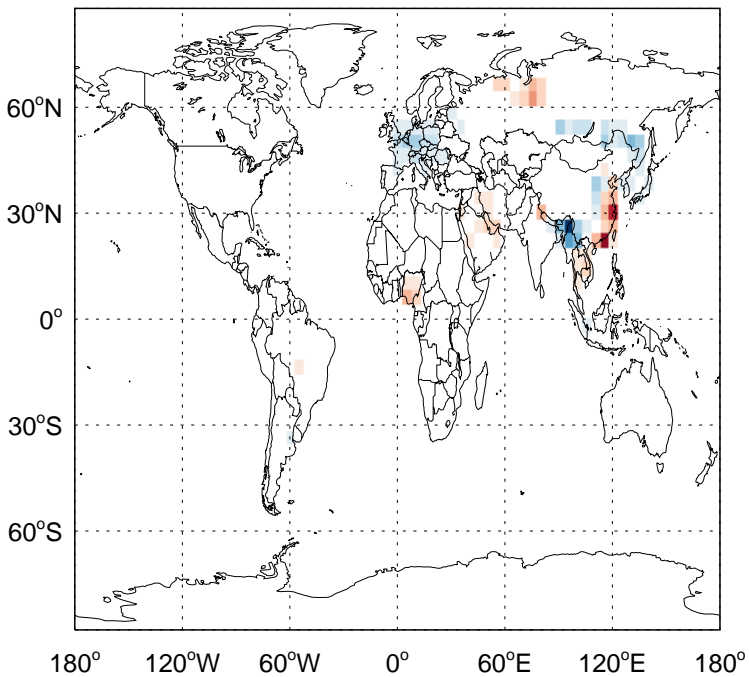
GC\_12.0.0 - v11-02f-Run1  
BCPO - Diff @ Surface for Apr



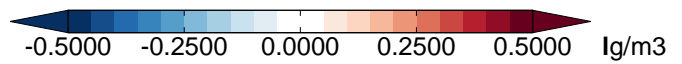
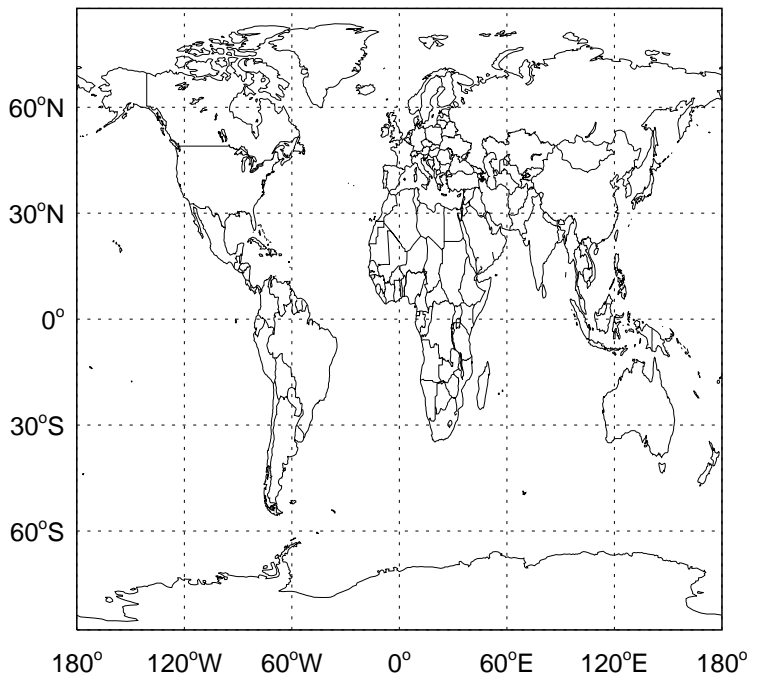
GC\_12.0.0 - v11-02f-Run1  
BCPO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BCPO - Diff @ Surface for Apr

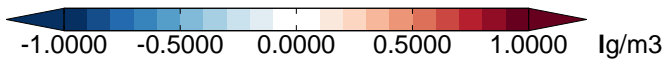
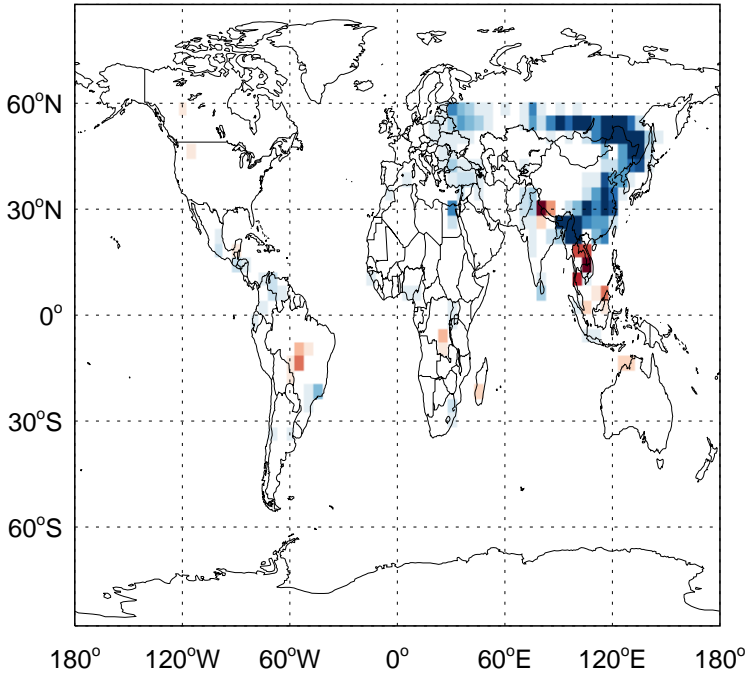


GC\_12.0.0 - v11-02e-Run1  
BCPO- Diff @ 500 hPa for Apr

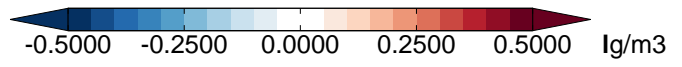
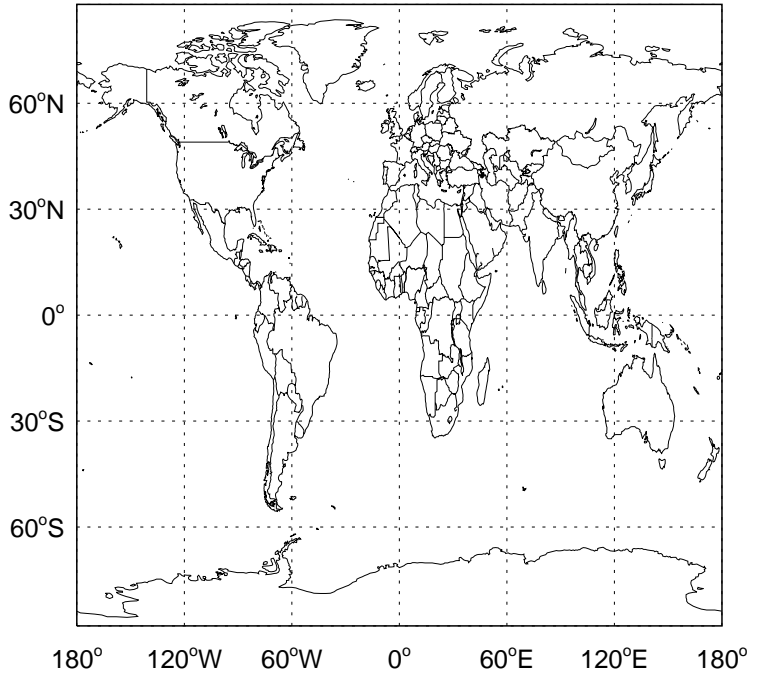


# GEOS-Chem Difference Maps at surface and 500 hPa

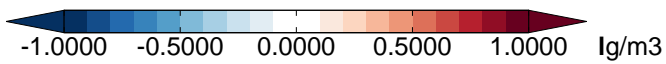
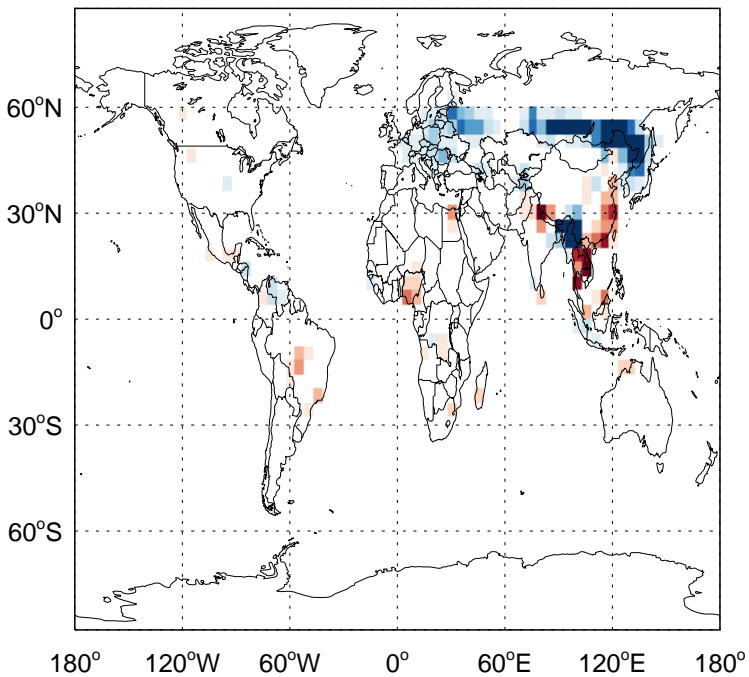
GC\_12.0.0 - v11-02f-Run1  
OCPO - Diff @ Surface for Apr



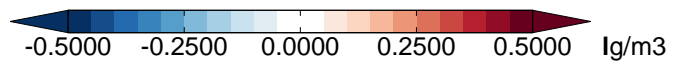
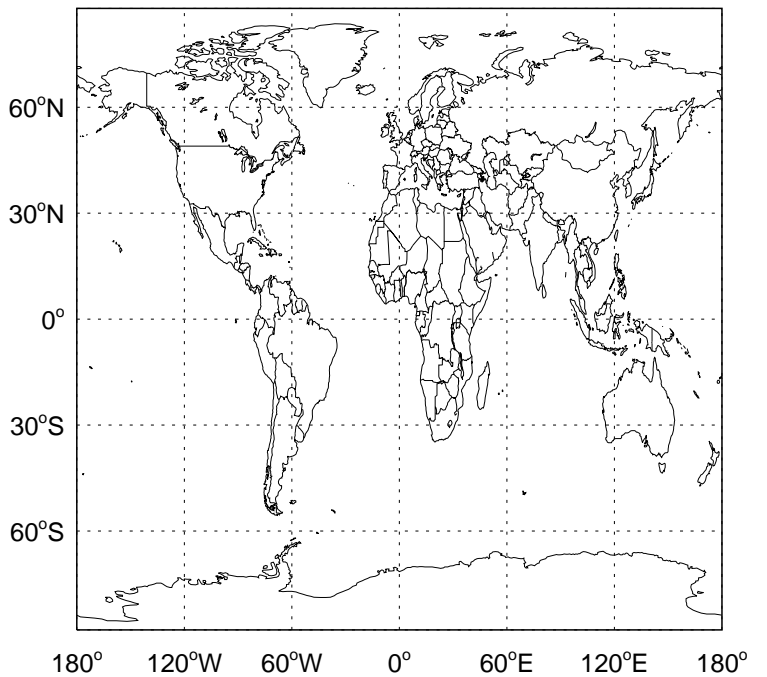
GC\_12.0.0 - v11-02f-Run1  
OCPO - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
OCPO - Diff @ Surface for Apr

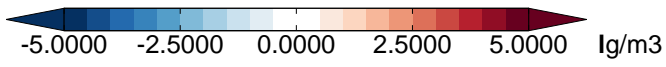
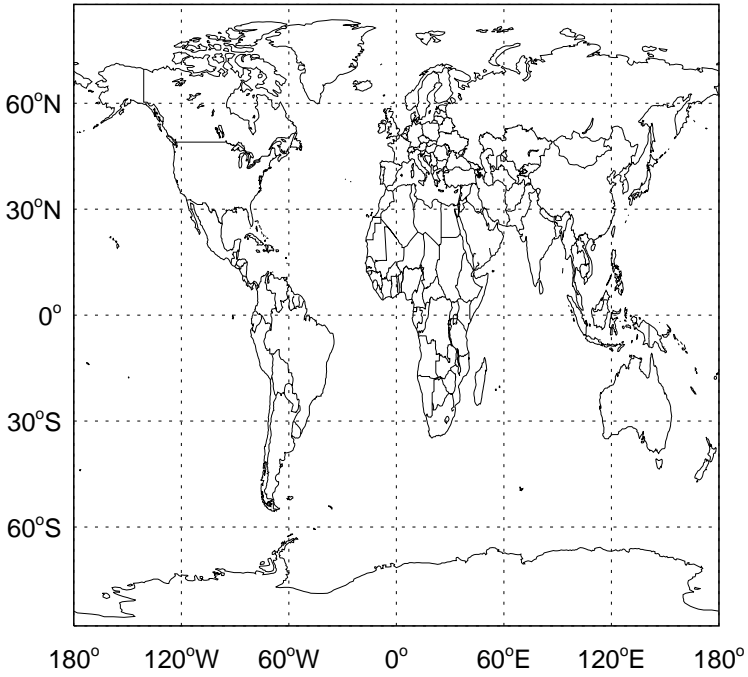


GC\_12.0.0 - v11-02e-Run1  
OCPO - Diff @ 500 hPa for Apr

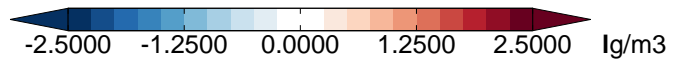
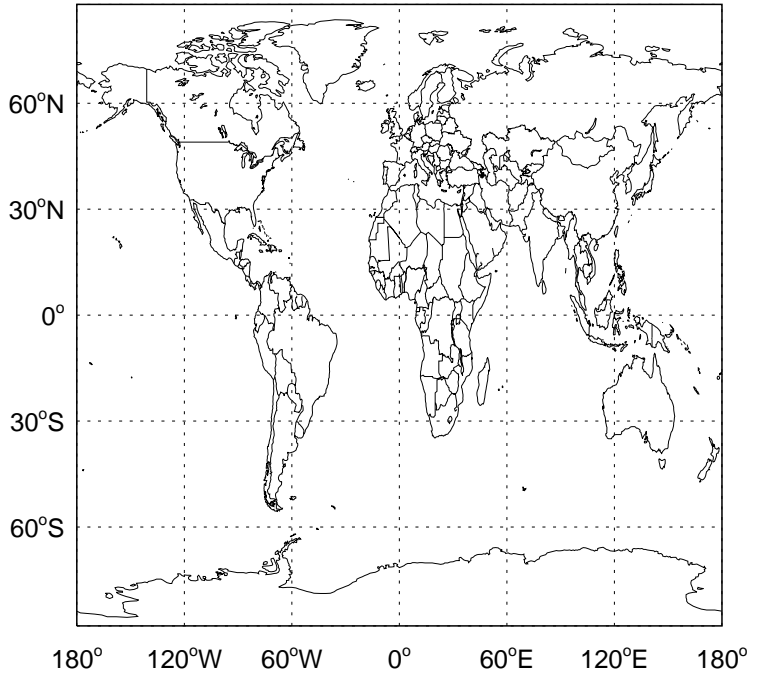


# GEOS-Chem Difference Maps at surface and 500 hPa

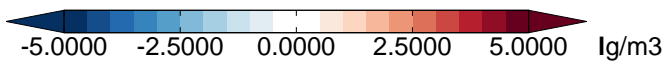
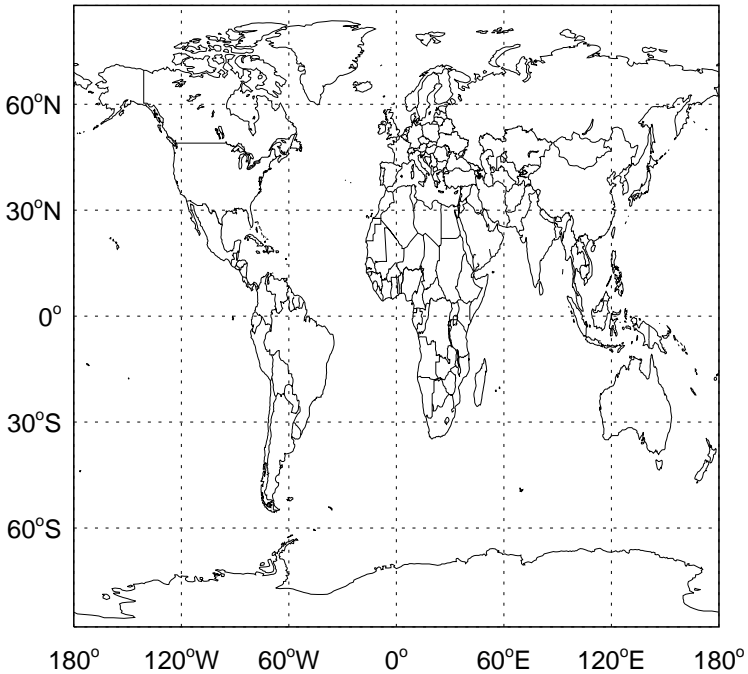
GC\_12.0.0 - v11-02f-Run1  
DST1 - Diff @ Surface for Apr



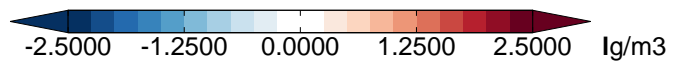
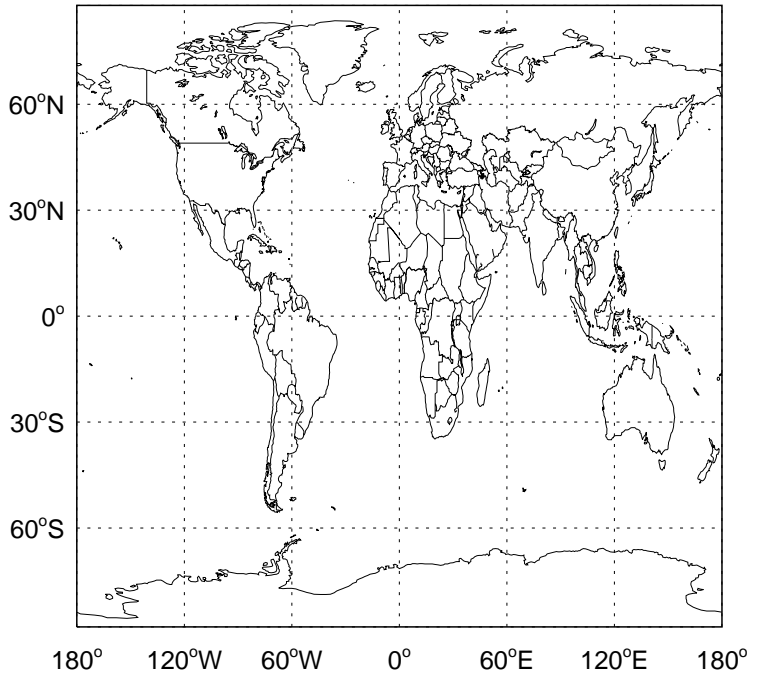
GC\_12.0.0 - v11-02f-Run1  
DST1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DST1 - Diff @ Surface for Apr

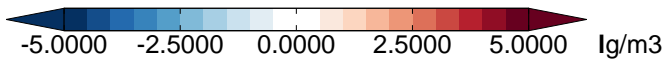
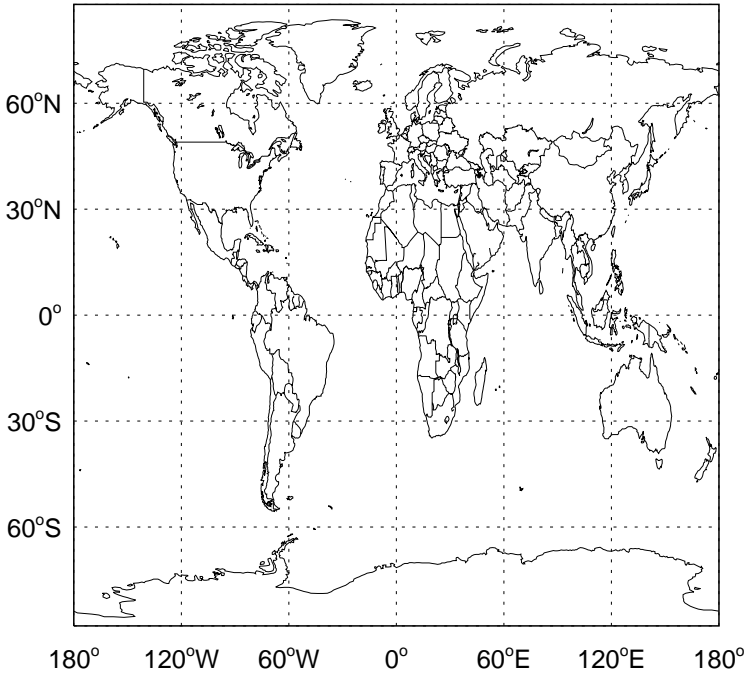


GC\_12.0.0 - v11-02e-Run1  
DST1- Diff @ 500 hPa for Apr

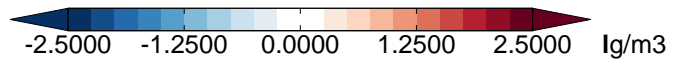
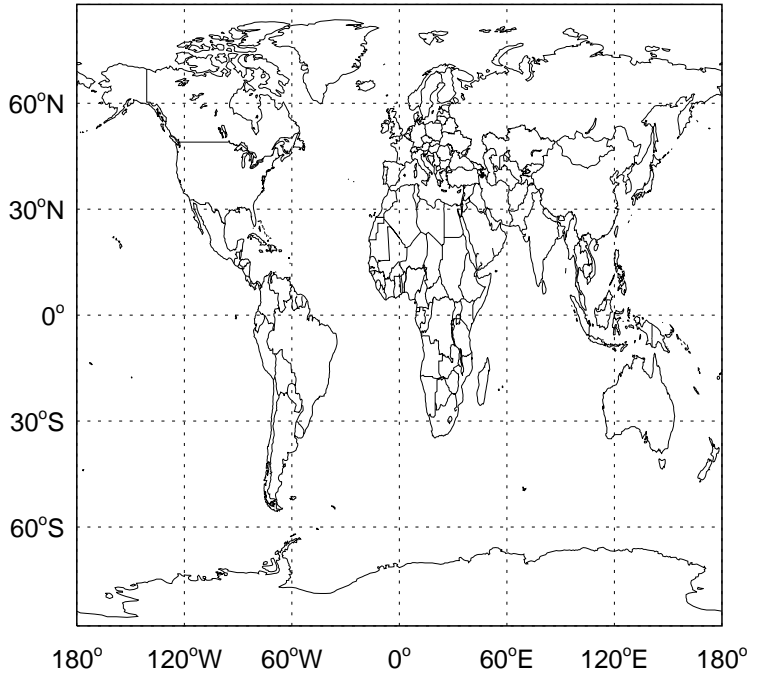


# GEOS-Chem Difference Maps at surface and 500 hPa

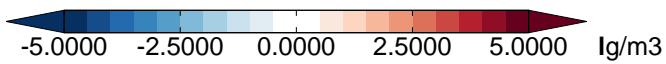
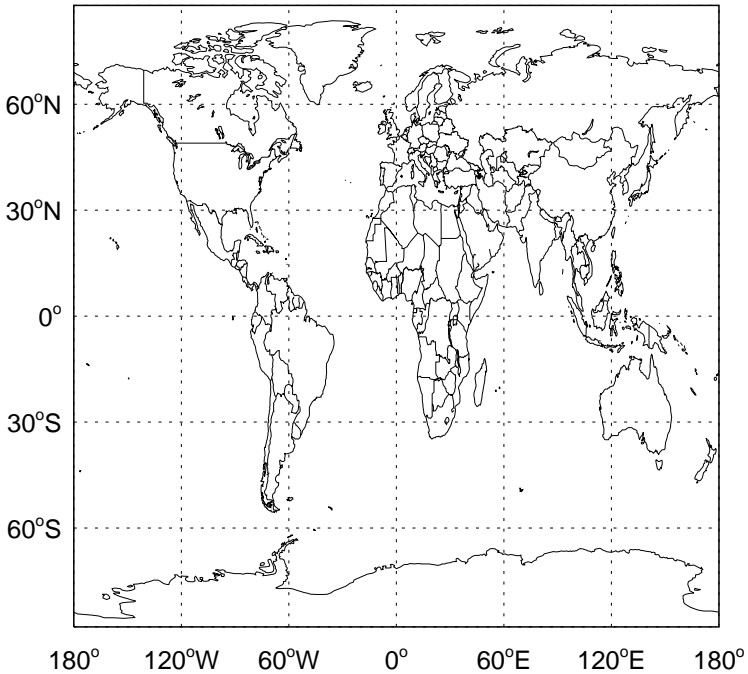
GC\_12.0.0 - v11-02f-Run1  
DST2 - Diff @ Surface for Apr



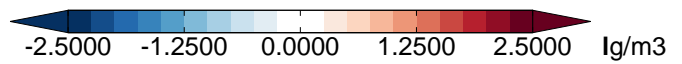
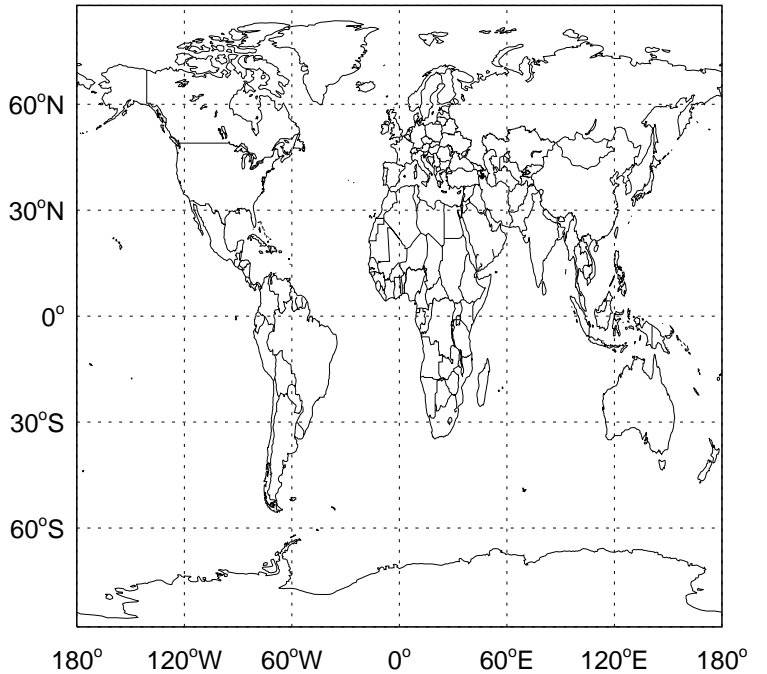
GC\_12.0.0 - v11-02f-Run1  
DST2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DST2 - Diff @ Surface for Apr

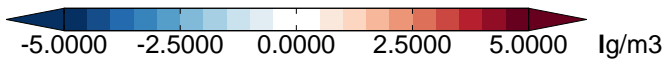
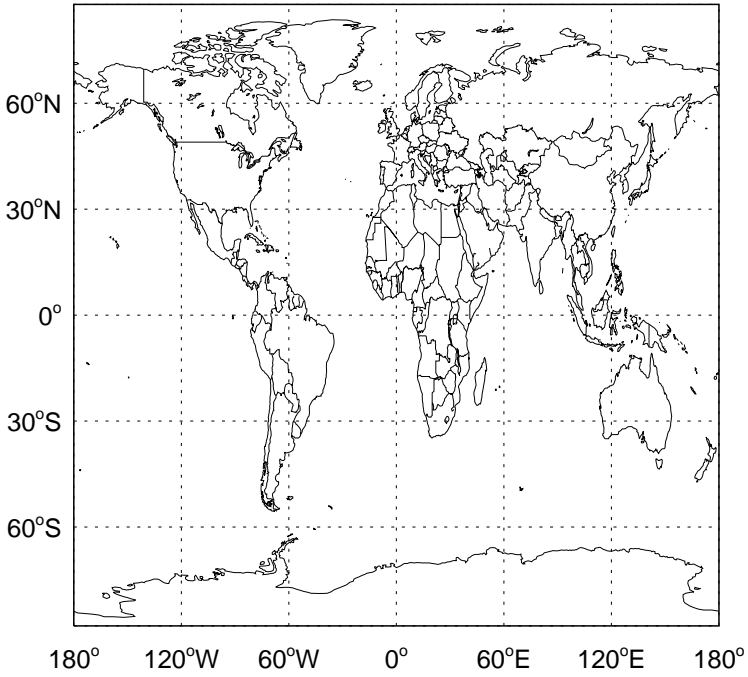


GC\_12.0.0 - v11-02e-Run1  
DST2- Diff @ 500 hPa for Apr

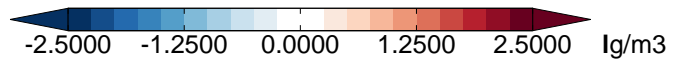
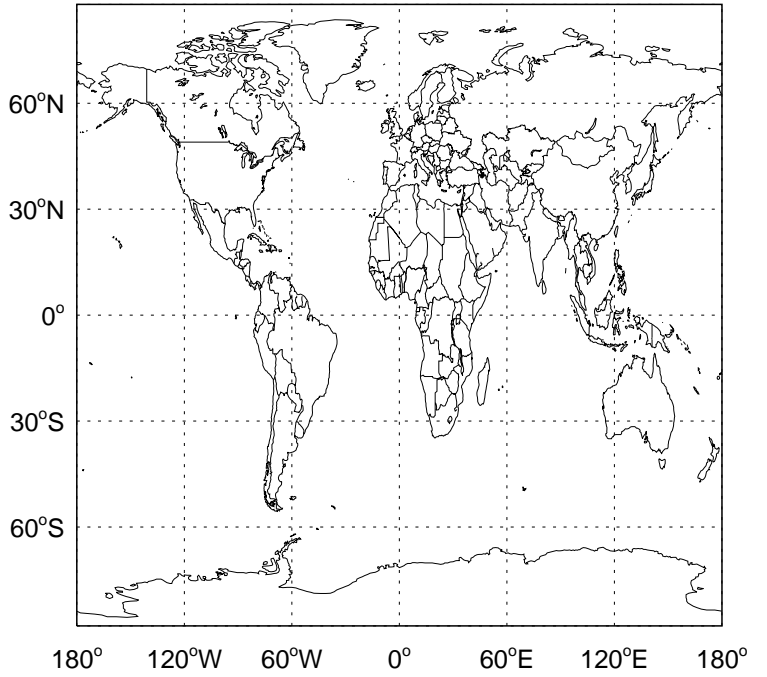


# GEOS-Chem Difference Maps at surface and 500 hPa

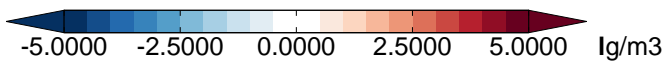
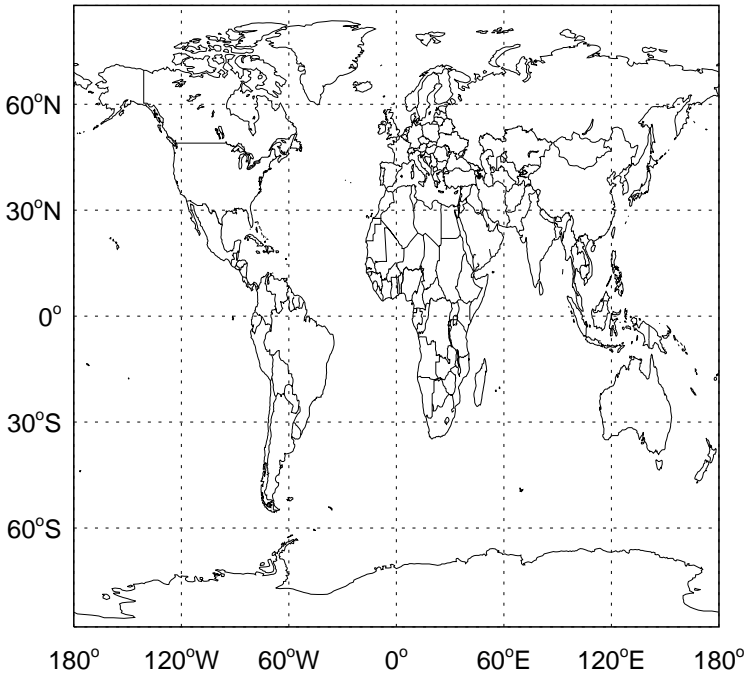
GC\_12.0.0 - v11-02f-Run1  
DST3 - Diff @ Surface for Apr



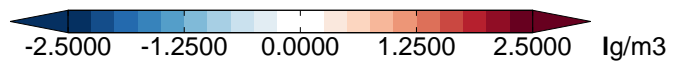
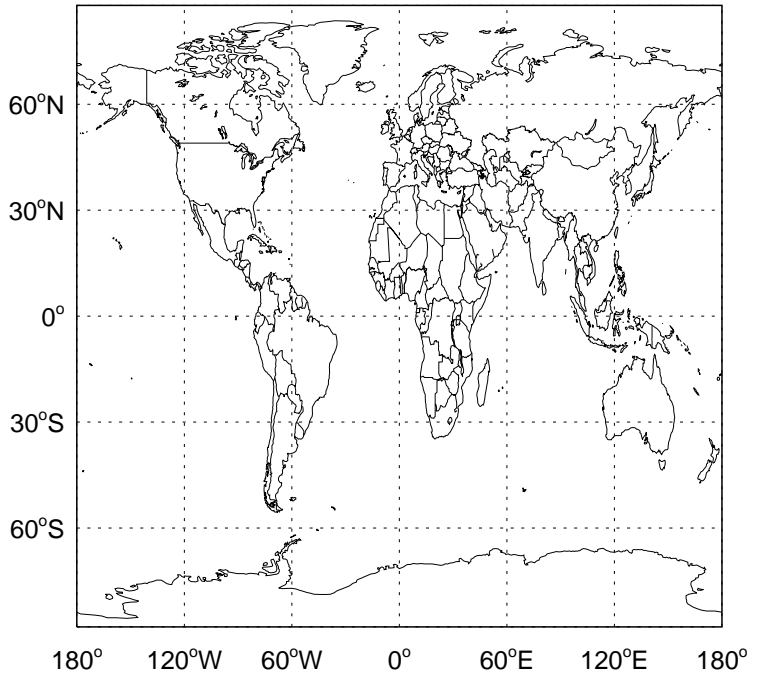
GC\_12.0.0 - v11-02f-Run1  
DST3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DST3 - Diff @ Surface for Apr



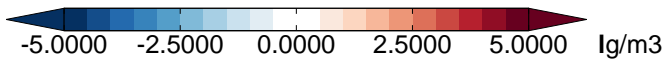
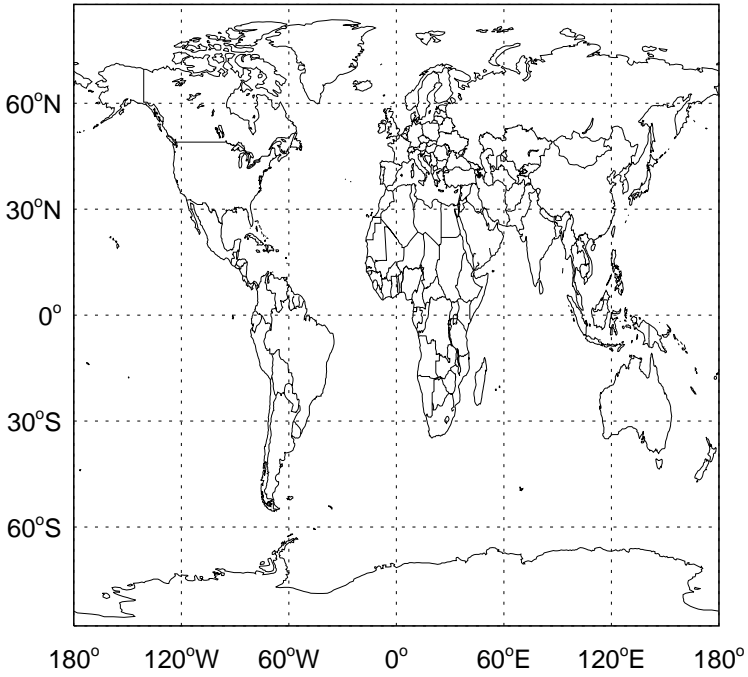
GC\_12.0.0 - v11-02e-Run1  
DST3- Diff @ 500 hPa for Apr



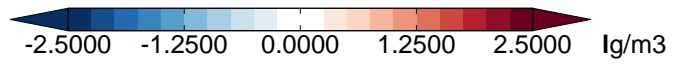


# GEOS-Chem Difference Maps at surface and 500 hPa

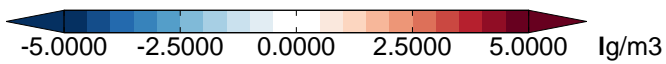
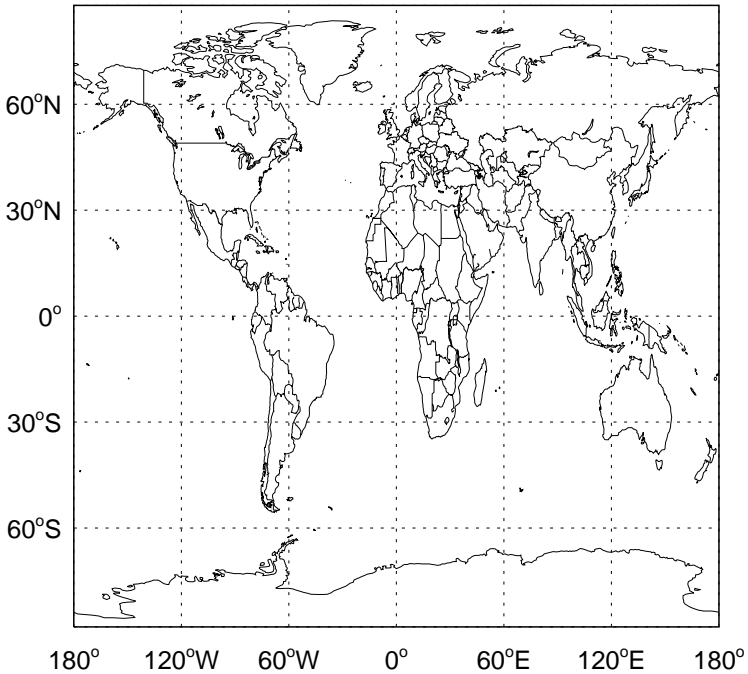
GC\_12.0.0 - v11-02f-Run1  
DST4 - Diff @ Surface for Apr



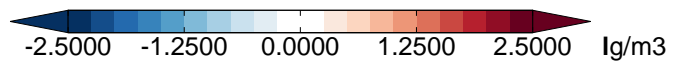
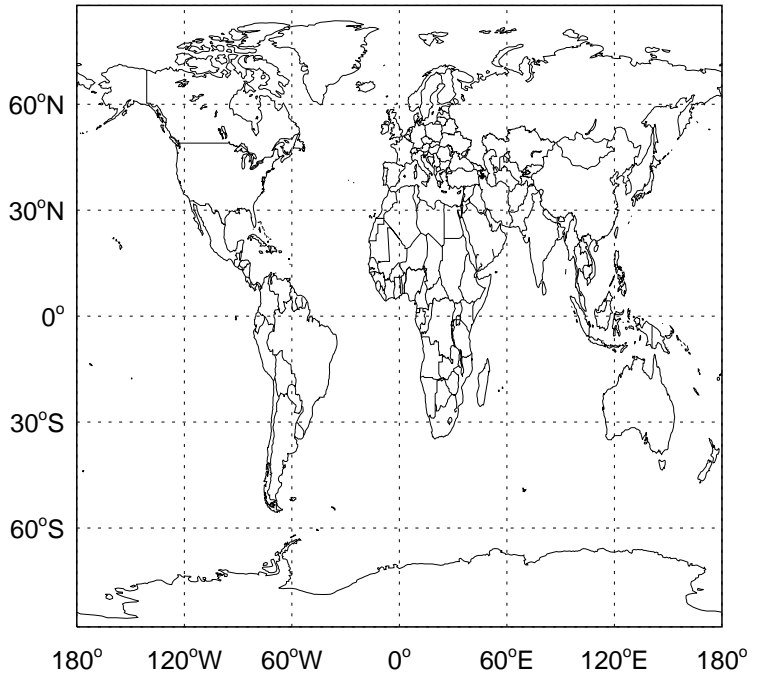
GC\_12.0.0 - v11-02f-Run1  
DST4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DST4 - Diff @ Surface for Apr

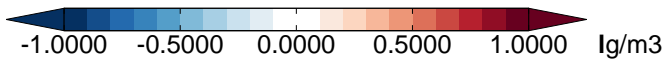


GC\_12.0.0 - v11-02e-Run1  
DST4- Diff @ 500 hPa for Apr

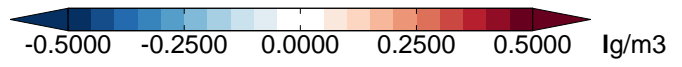
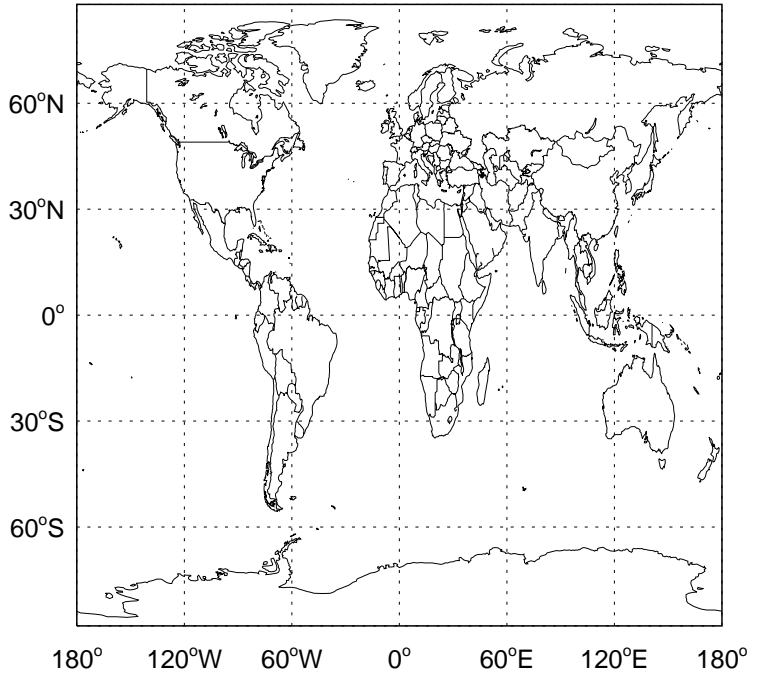


# GEOS-Chem Difference Maps at surface and 500 hPa

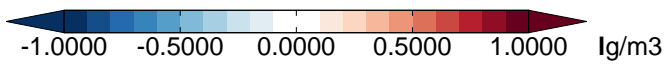
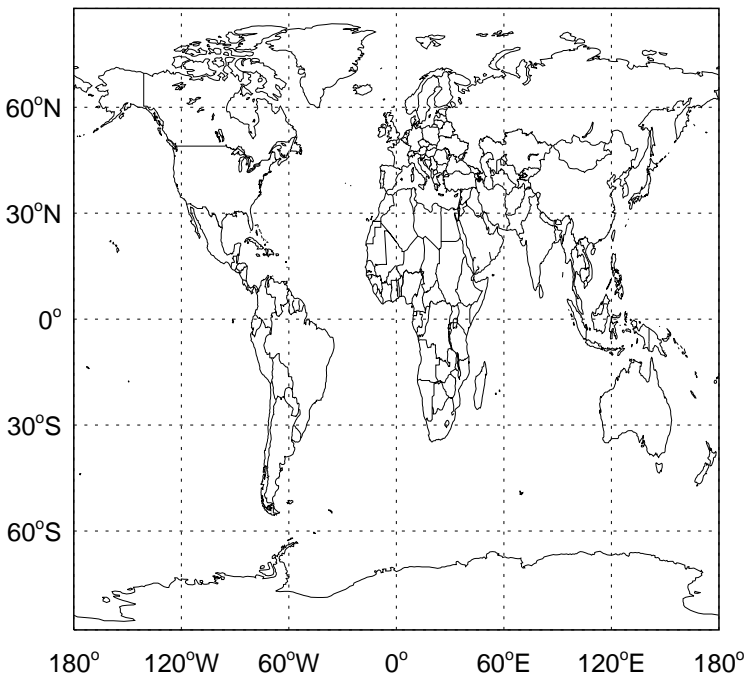
GC\_12.0.0 - v11-02f-Run1  
SALA - Diff @ Surface for Apr



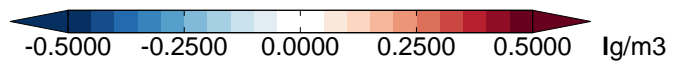
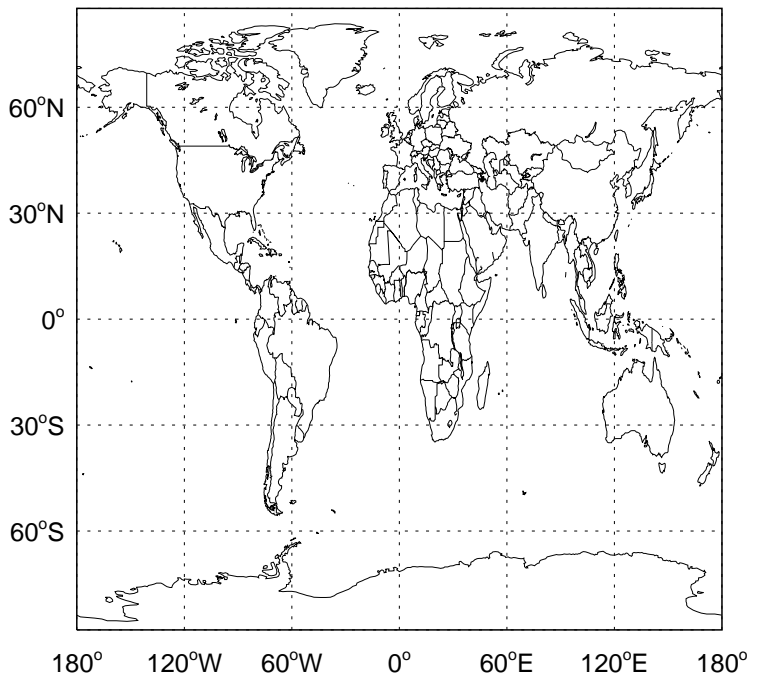
GC\_12.0.0 - v11-02f-Run1  
SALA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SALA - Diff @ Surface for Apr

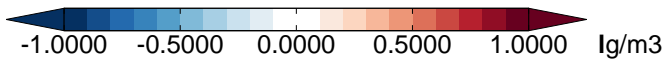
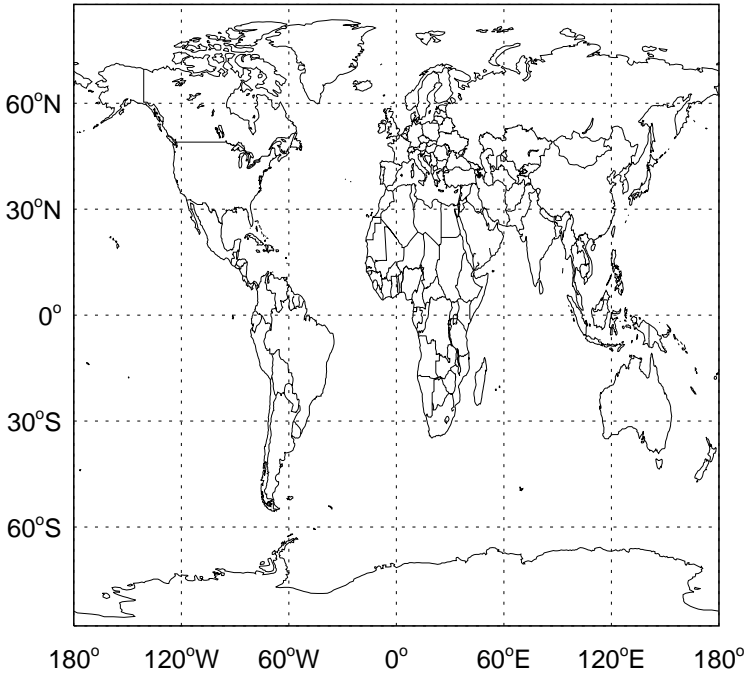


GC\_12.0.0 - v11-02e-Run1  
SALA- Diff @ 500 hPa for Apr

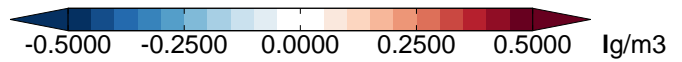


# GEOS-Chem Difference Maps at surface and 500 hPa

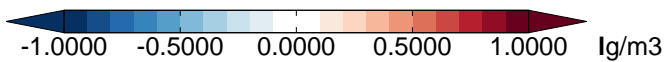
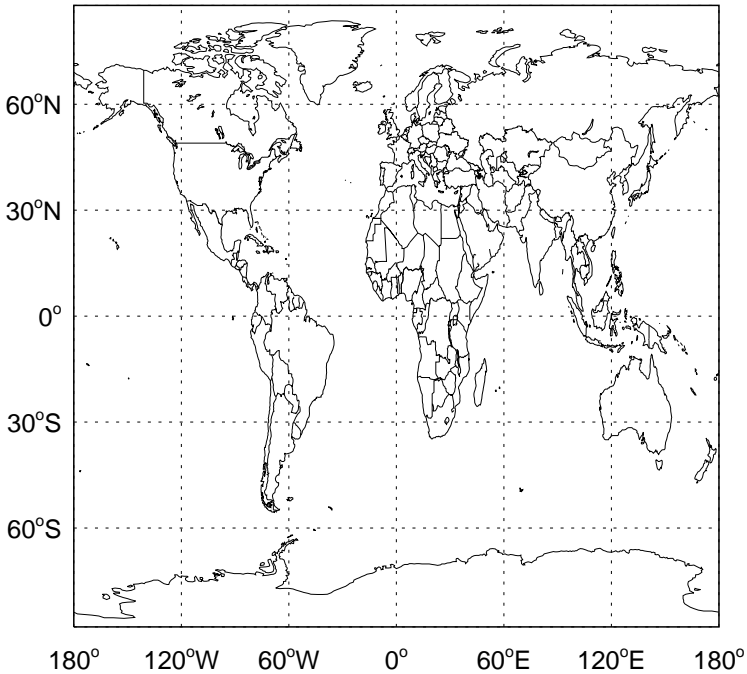
GC\_12.0.0 - v11-02f-Run1  
SALC - Diff @ Surface for Apr



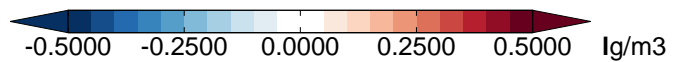
GC\_12.0.0 - v11-02f-Run1  
SALC- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SALC - Diff @ Surface for Apr

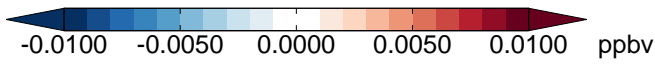
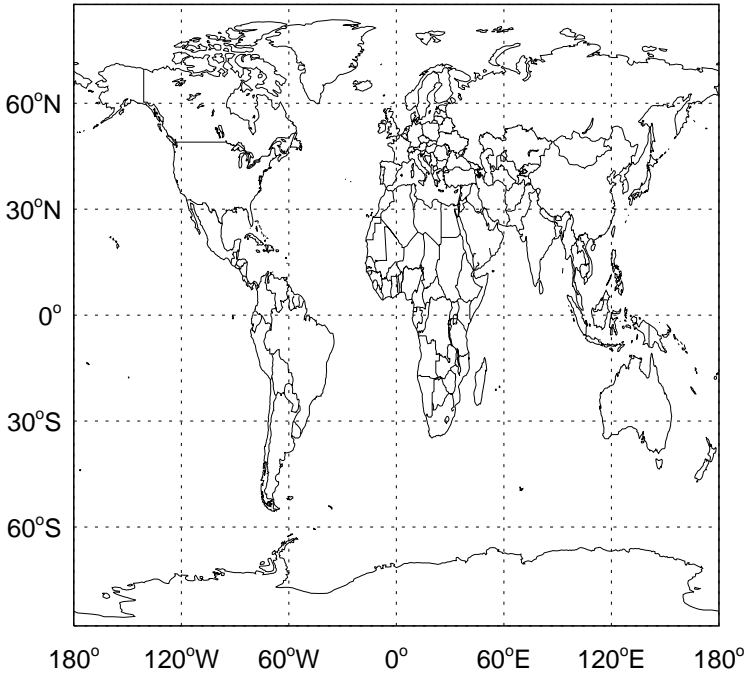


GC\_12.0.0 - v11-02e-Run1  
SALC- Diff @ 500 hPa for Apr

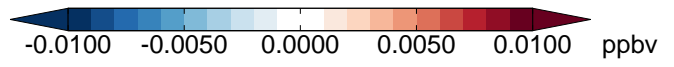


# GEOS-Chem Difference Maps at surface and 500 hPa

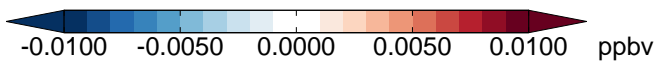
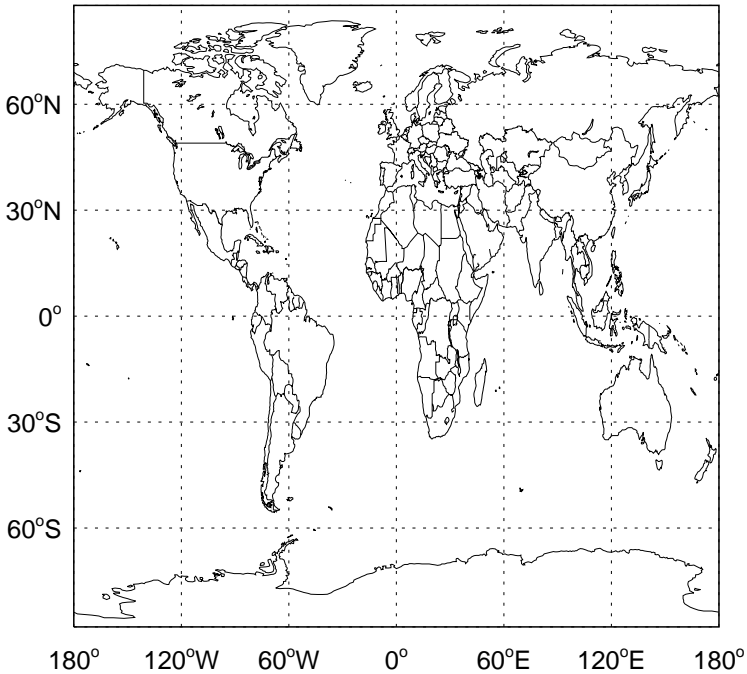
GC\_12.0.0 - v11-02f-Run1  
Br2 - Diff @ Surface for Apr



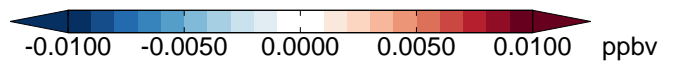
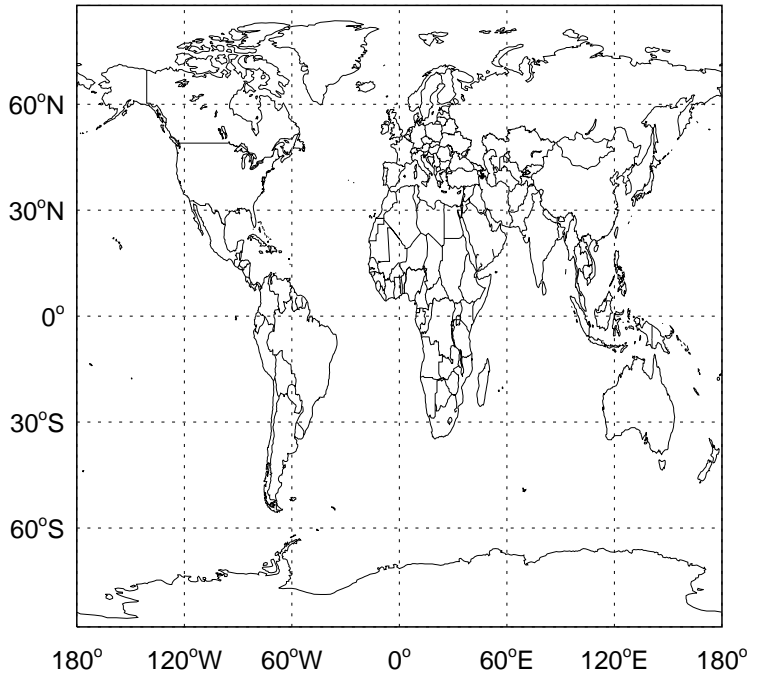
GC\_12.0.0 - v11-02f-Run1  
Br2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
Br2 - Diff @ Surface for Apr



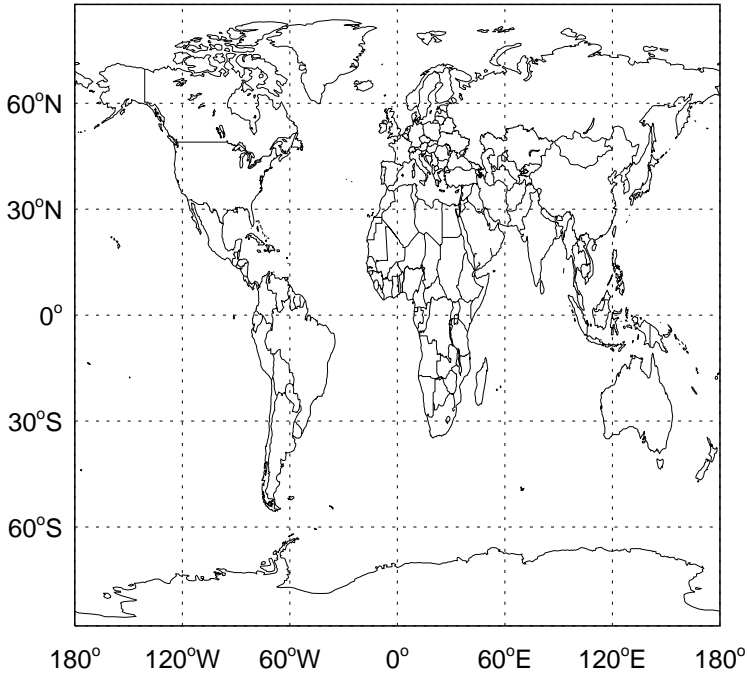
GC\_12.0.0 - v11-02e-Run1  
Br2- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

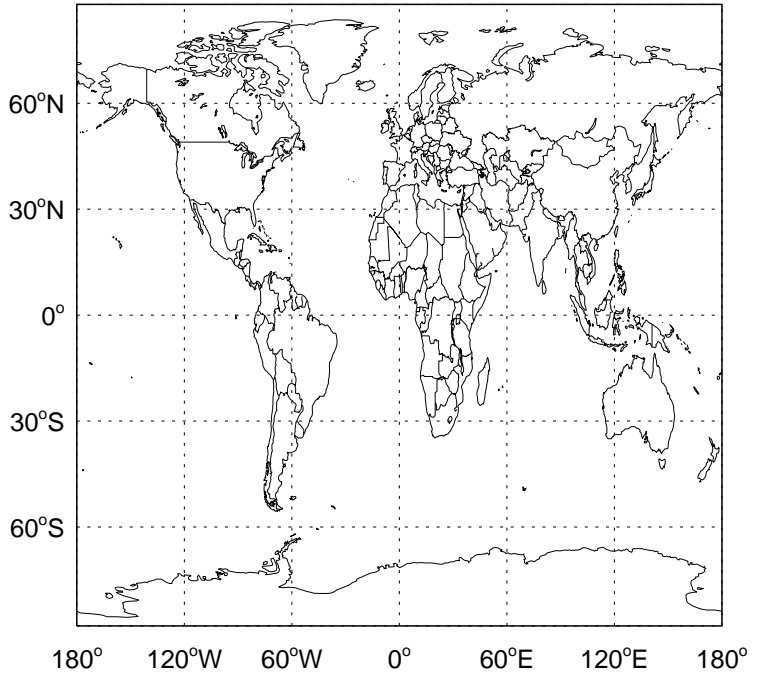
GC\_12.0.0 - v11-02f-Run1

Br - Diff @ Surface for Apr



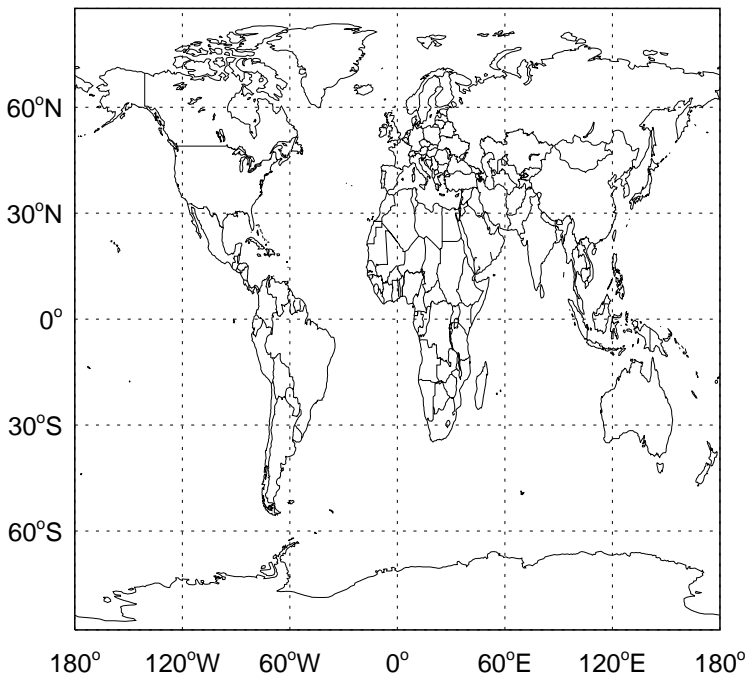
GC\_12.0.0 - v11-02f-Run1

Br- Diff @ 500 hPa for Apr



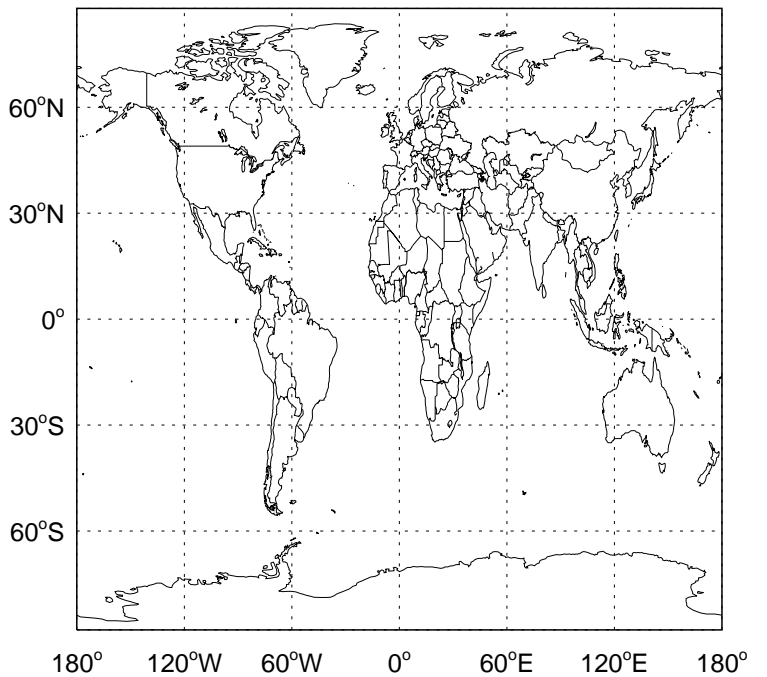
GC\_12.0.0 - v11-02e-Run1

Br - Diff @ Surface for Apr



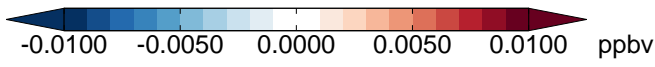
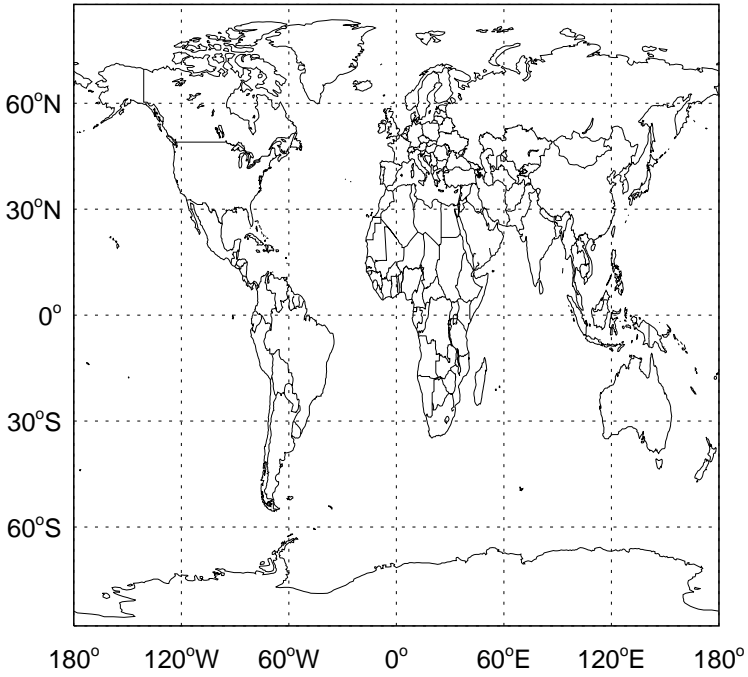
GC\_12.0.0 - v11-02e-Run1

Br- Diff @ 500 hPa for Apr

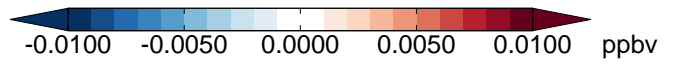


# GEOS-Chem Difference Maps at surface and 500 hPa

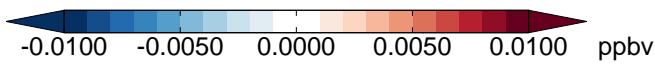
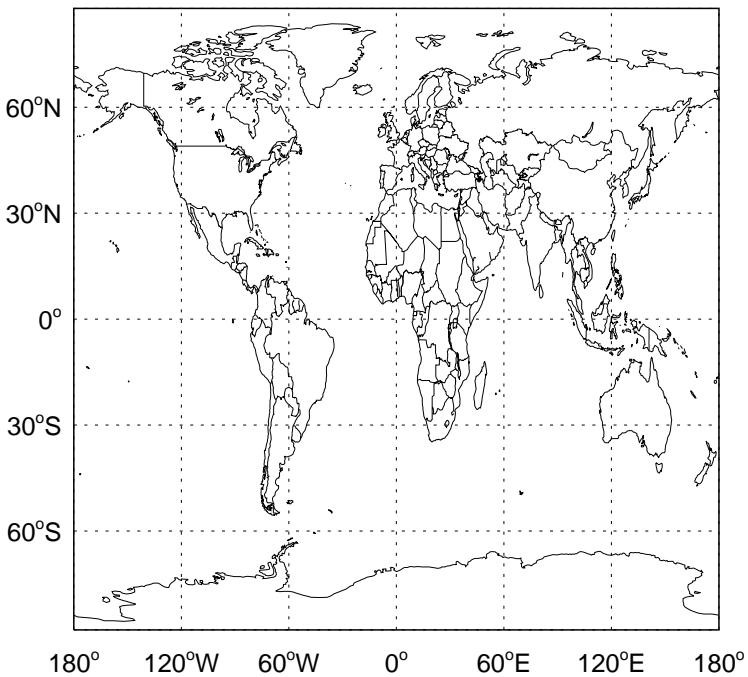
GC\_12.0.0 - v11-02f-Run1  
BrO - Diff @ Surface for Apr



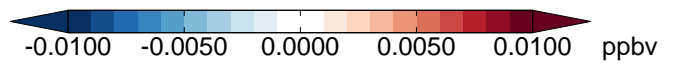
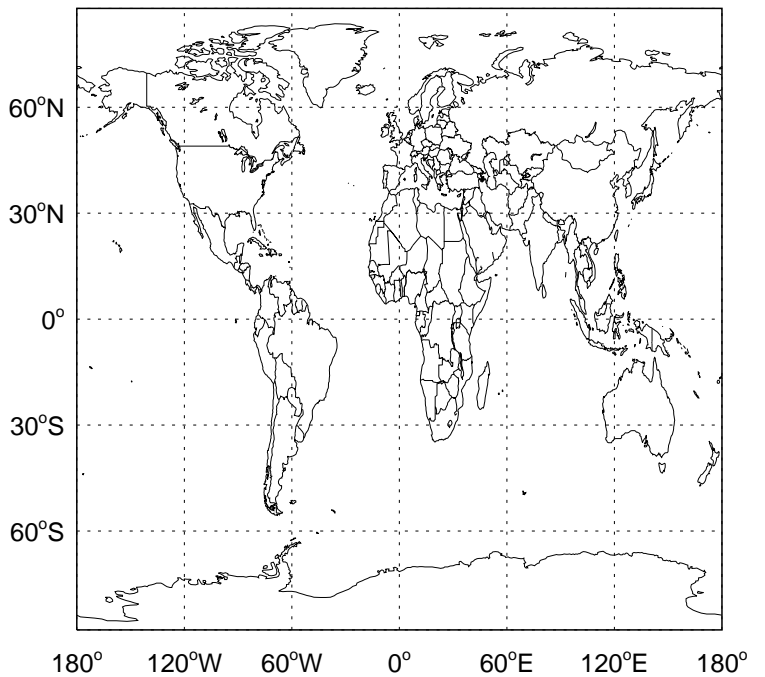
GC\_12.0.0 - v11-02f-Run1  
BrO - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BrO - Diff @ Surface for Apr

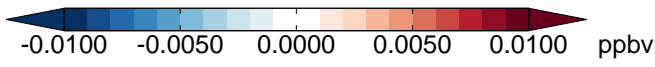
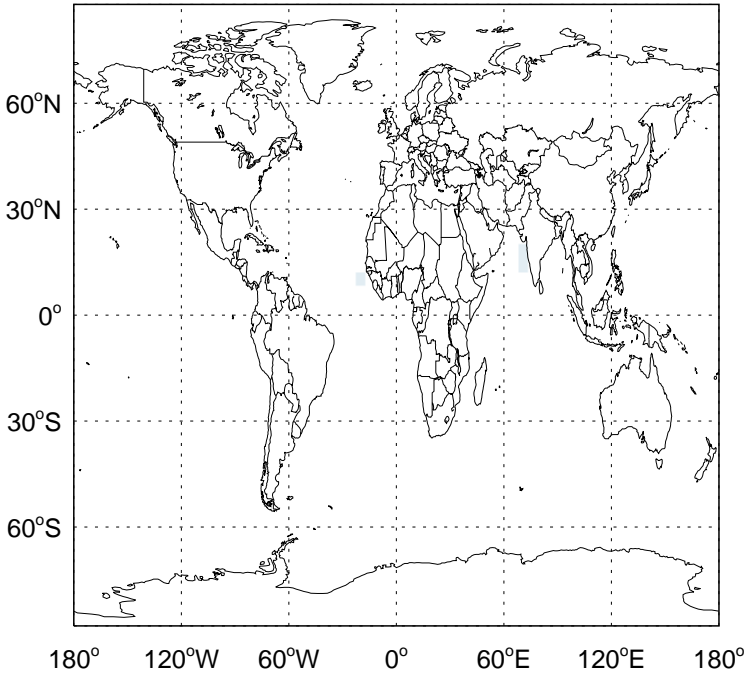


GC\_12.0.0 - v11-02e-Run1  
BrO - Diff @ 500 hPa for Apr

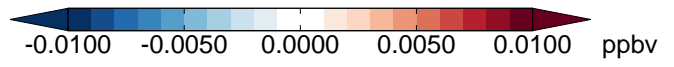


# GEOS-Chem Difference Maps at surface and 500 hPa

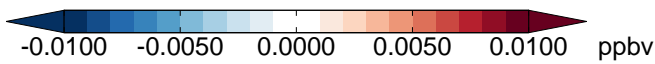
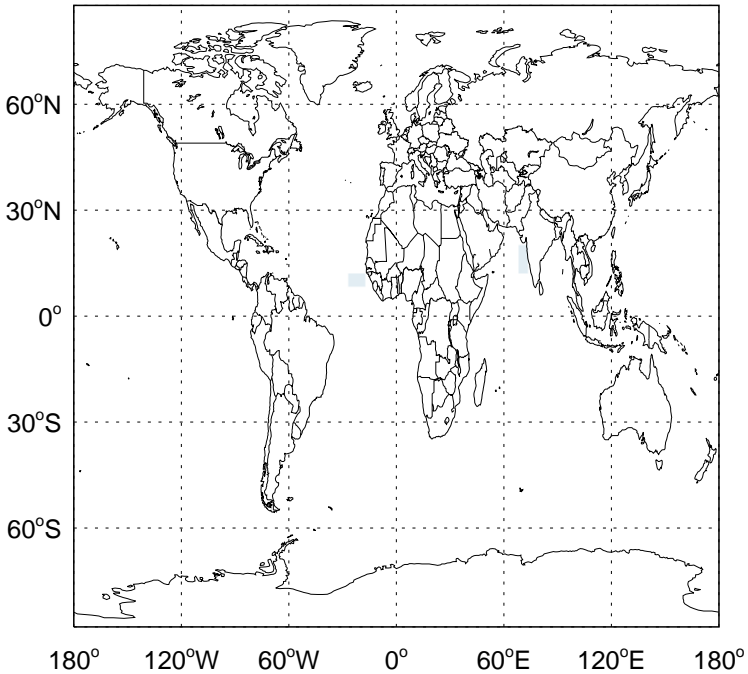
GC\_12.0.0 - v11-02f-Run1  
HOBr - Diff @ Surface for Apr



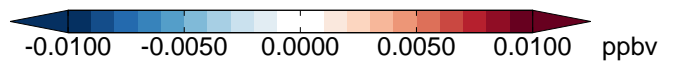
GC\_12.0.0 - v11-02f-Run1  
HOBr- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HOBr - Diff @ Surface for Apr

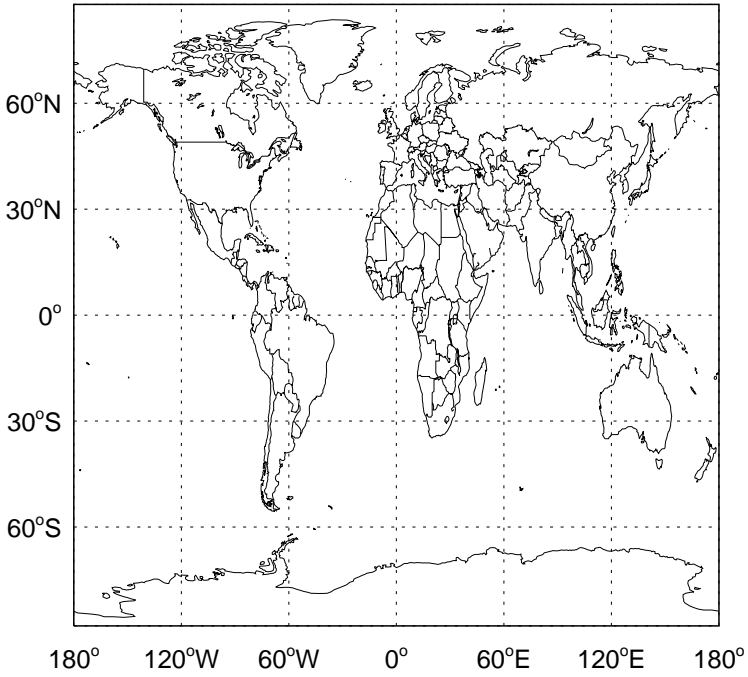


GC\_12.0.0 - v11-02e-Run1  
HOBr- Diff @ 500 hPa for Apr

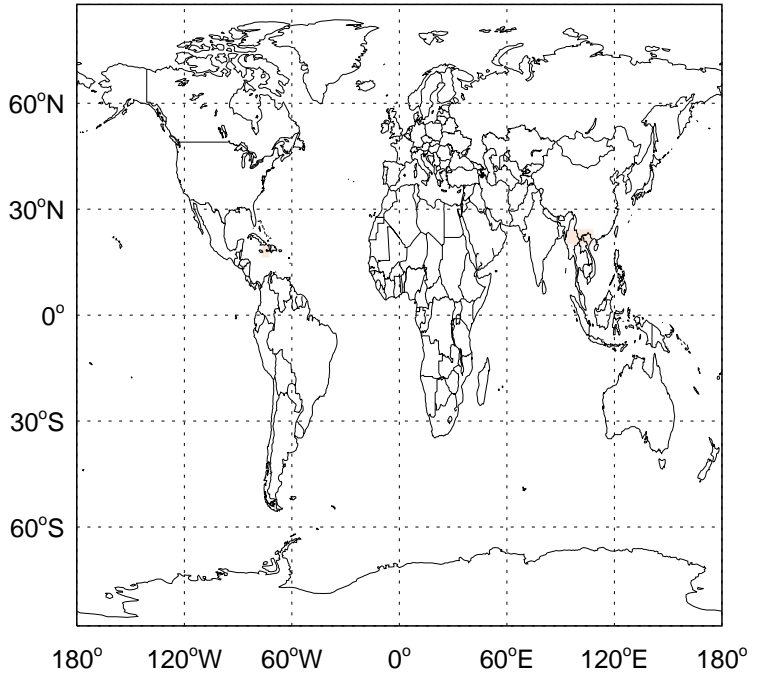


# GEOS-Chem Difference Maps at surface and 500 hPa

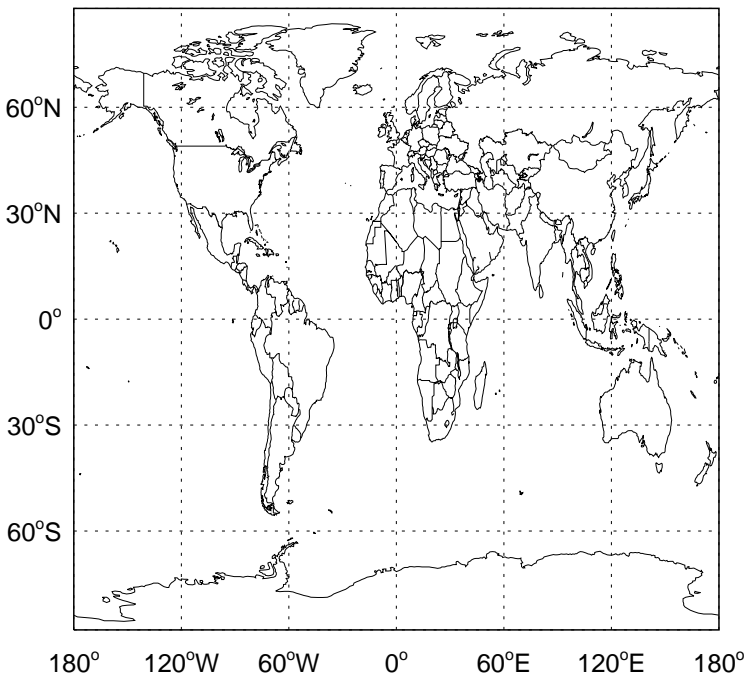
GC\_12.0.0 - v11-02f-Run1  
HBr - Diff @ Surface for Apr



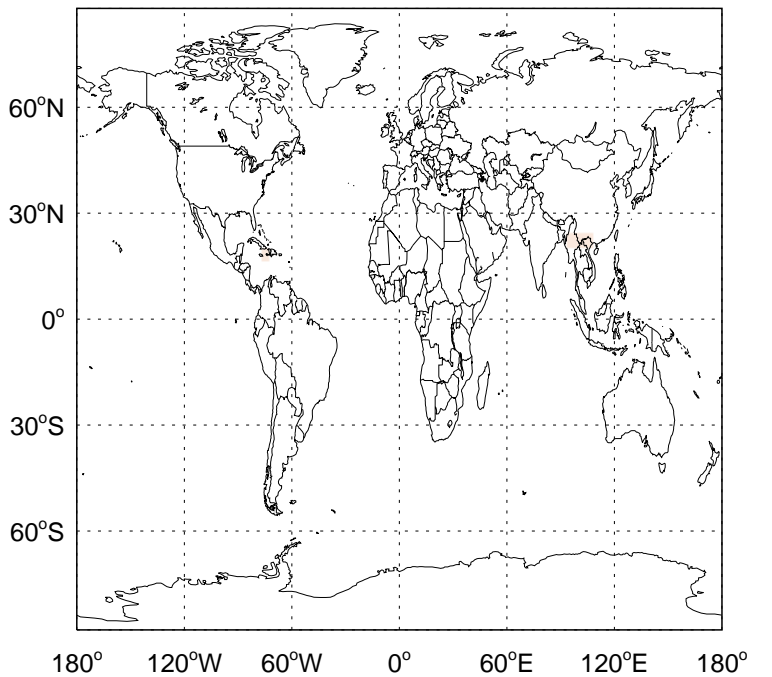
GC\_12.0.0 - v11-02f-Run1  
HBr- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HBr - Diff @ Surface for Apr



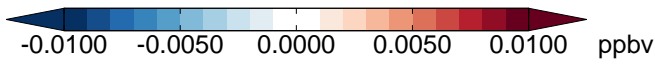
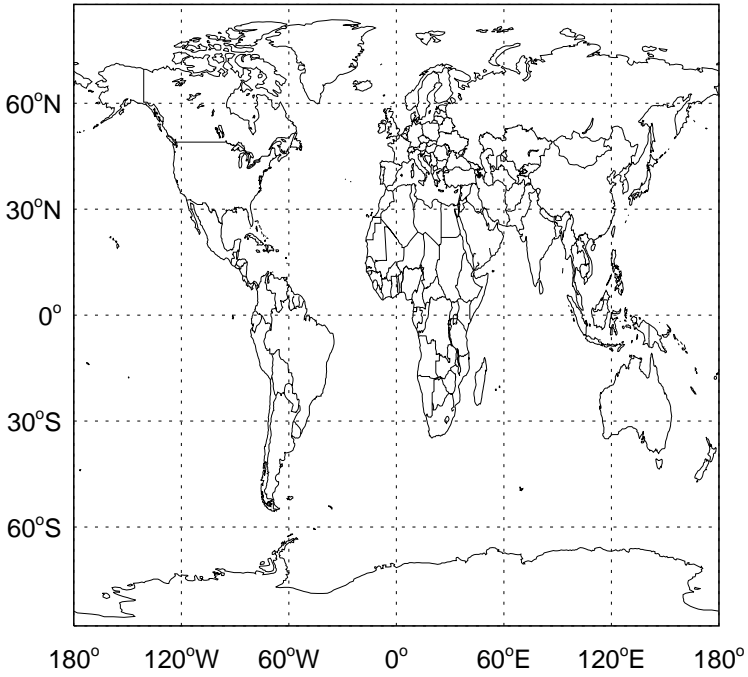
GC\_12.0.0 - v11-02e-Run1  
HBr- Diff @ 500 hPa for Apr



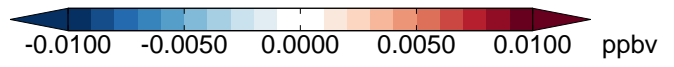


# GEOS-Chem Difference Maps at surface and 500 hPa

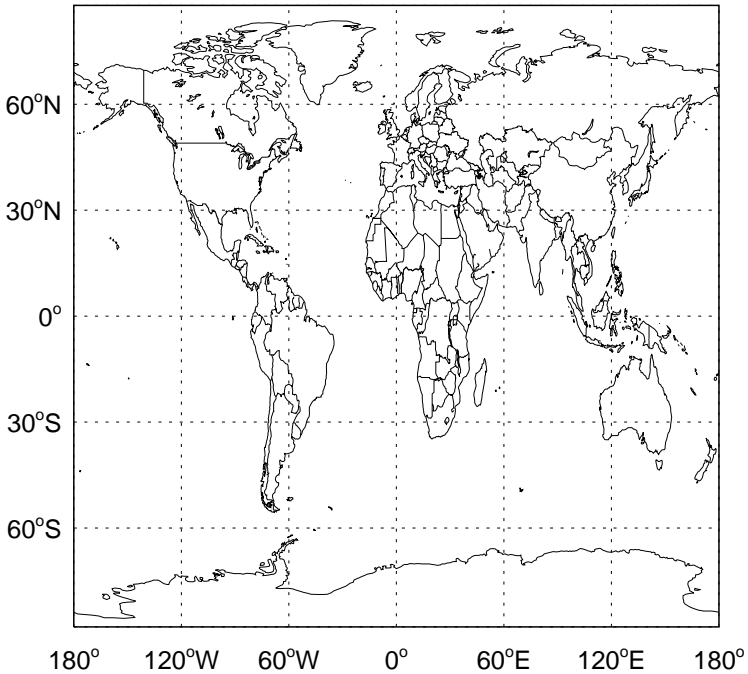
GC\_12.0.0 - v11-02f-Run1  
BrNO2 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
BrNO2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BrNO2 - Diff @ Surface for Apr

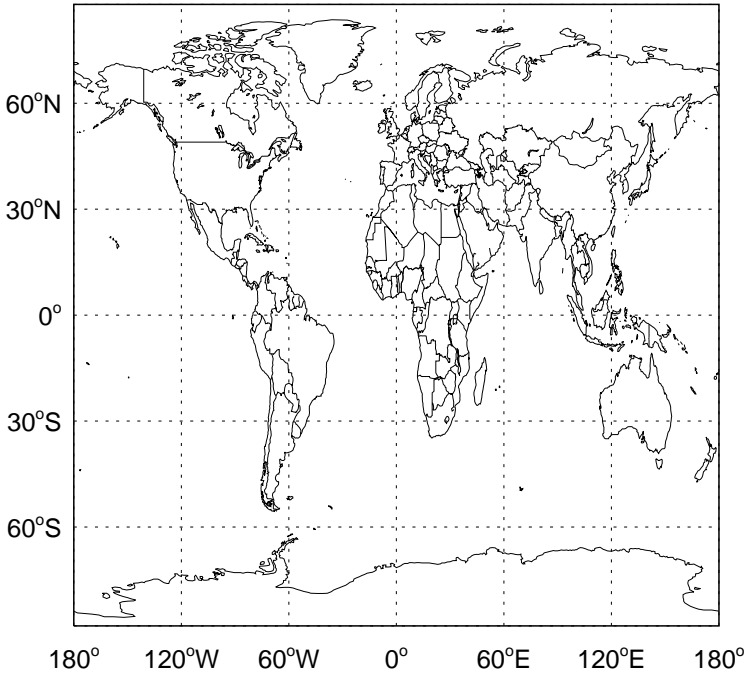


GC\_12.0.0 - v11-02e-Run1  
BrNO2- Diff @ 500 hPa for Apr

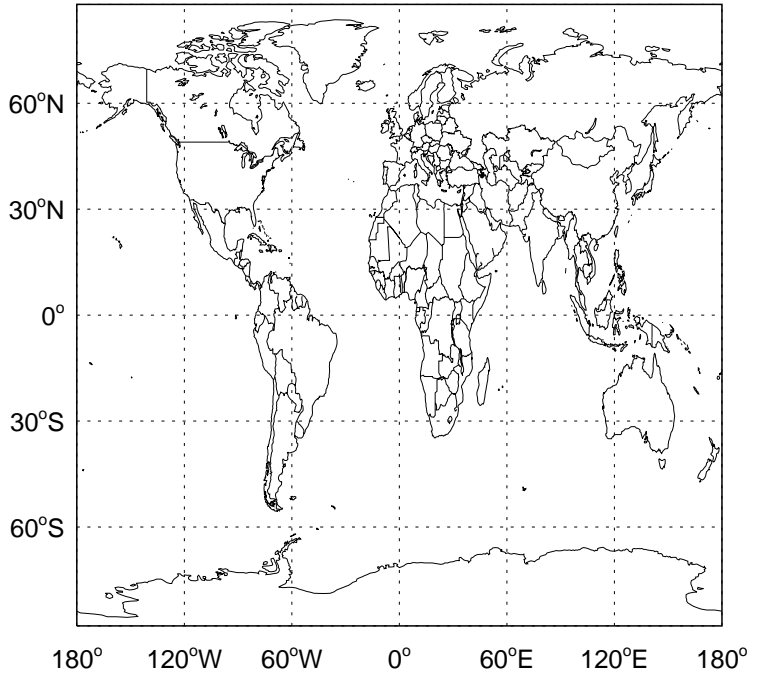


# GEOS-Chem Difference Maps at surface and 500 hPa

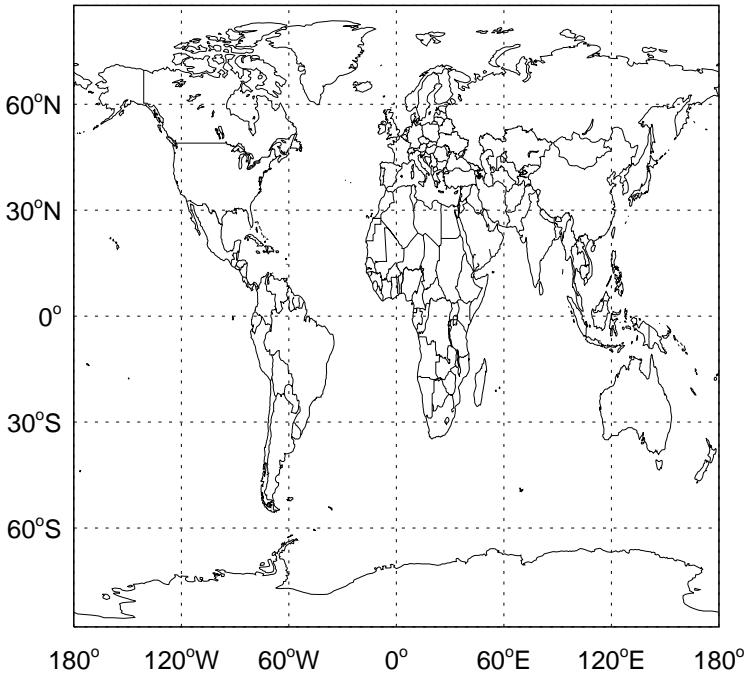
GC\_12.0.0 - v11-02f-Run1  
BrNO3 - Diff @ Surface for Apr



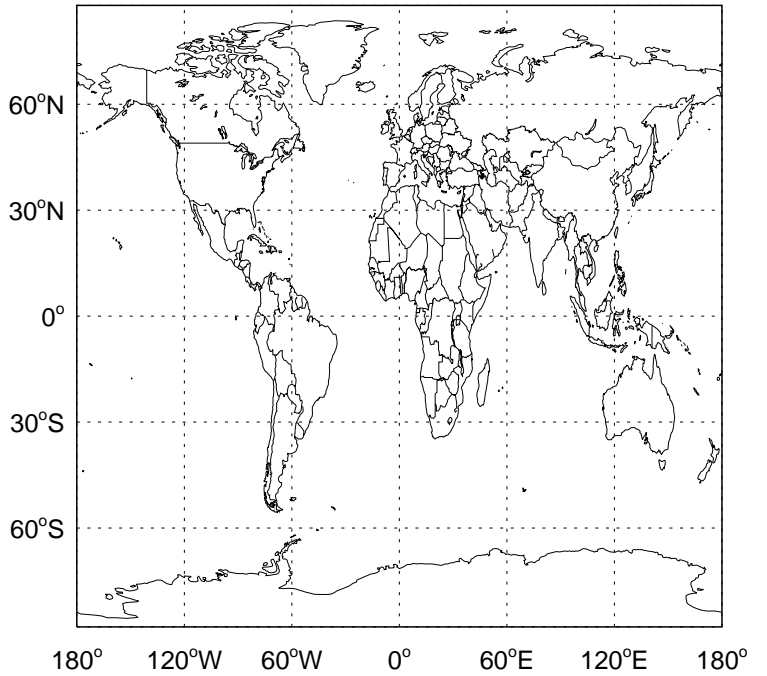
GC\_12.0.0 - v11-02f-Run1  
BrNO3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BrNO3 - Diff @ Surface for Apr

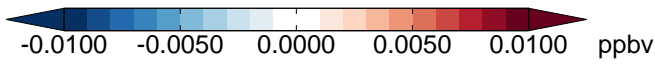
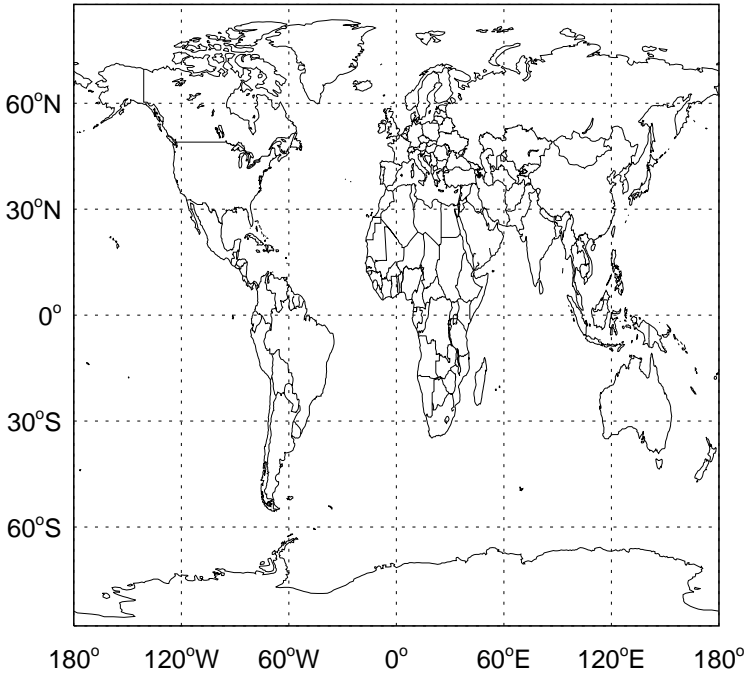


GC\_12.0.0 - v11-02e-Run1  
BrNO3- Diff @ 500 hPa for Apr

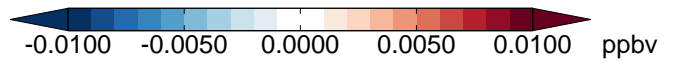


# GEOS-Chem Difference Maps at surface and 500 hPa

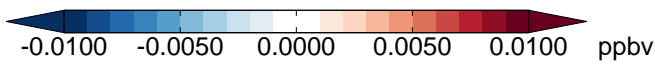
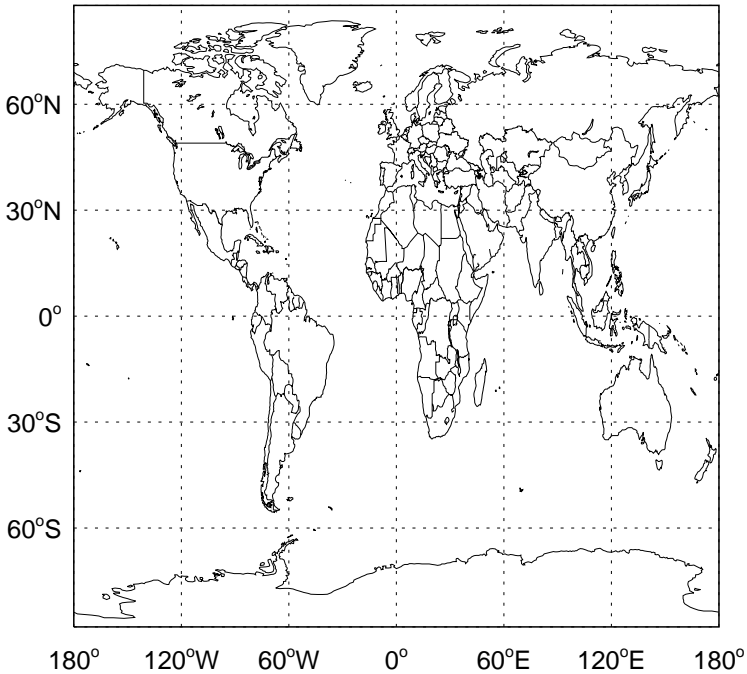
GC\_12.0.0 - v11-02f-Run1  
CHBr3 - Diff @ Surface for Apr



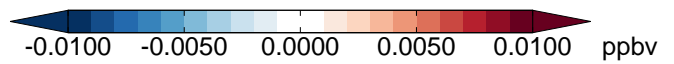
GC\_12.0.0 - v11-02f-Run1  
CHBr3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CHBr3 - Diff @ Surface for Apr

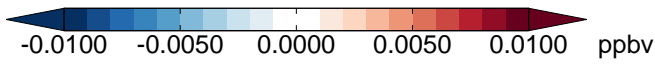
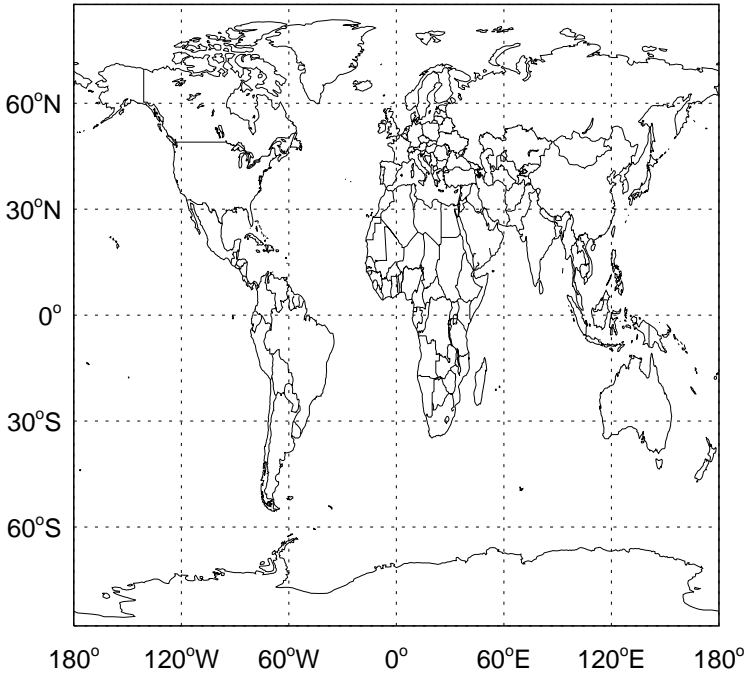


GC\_12.0.0 - v11-02e-Run1  
CHBr3- Diff @ 500 hPa for Apr

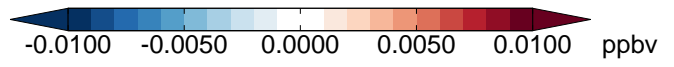


# GEOS-Chem Difference Maps at surface and 500 hPa

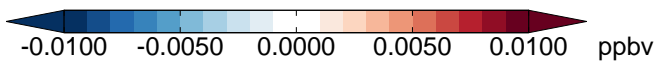
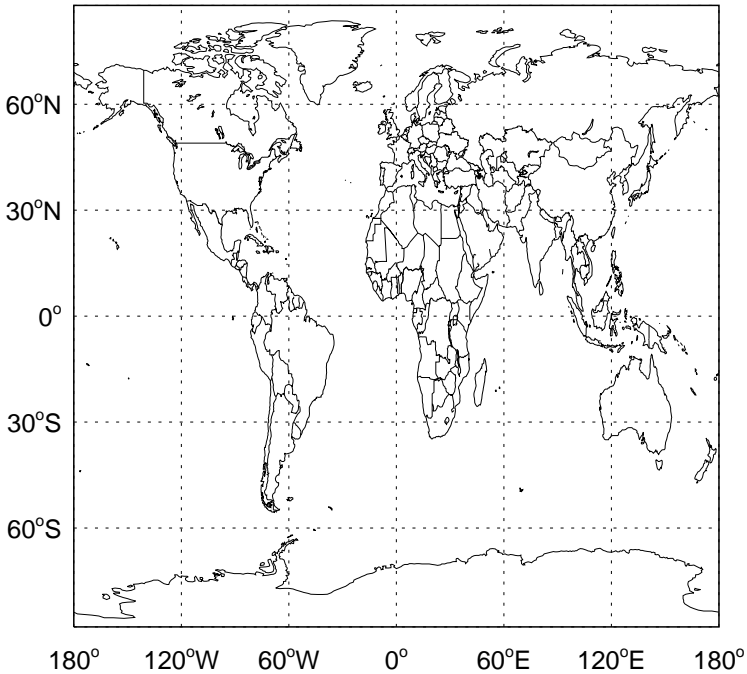
GC\_12.0.0 - v11-02f-Run1  
CH2Br2 - Diff @ Surface for Apr



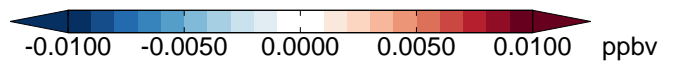
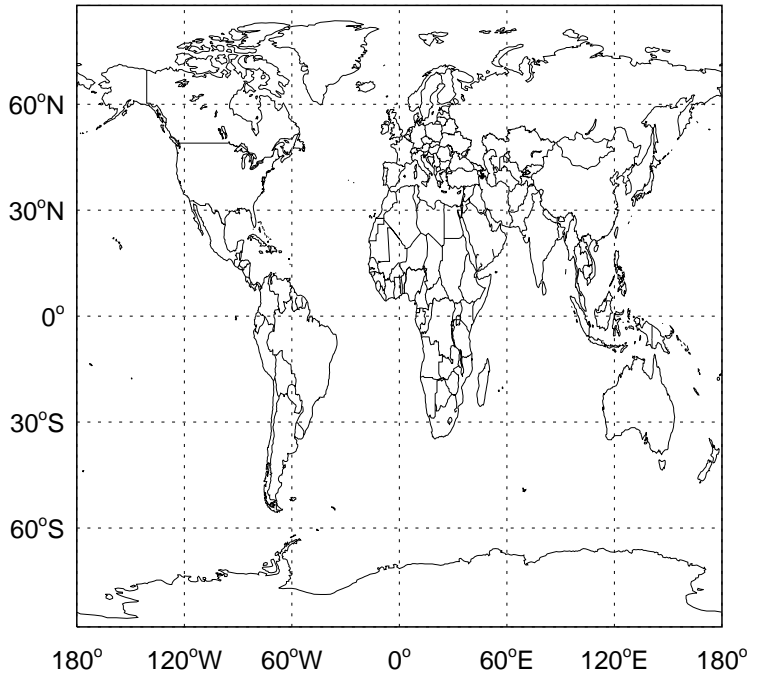
GC\_12.0.0 - v11-02f-Run1  
CH2Br2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH2Br2 - Diff @ Surface for Apr

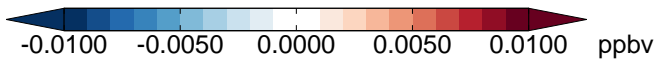


GC\_12.0.0 - v11-02e-Run1  
CH2Br2- Diff @ 500 hPa for Apr

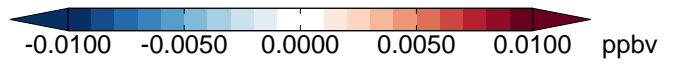


# GEOS-Chem Difference Maps at surface and 500 hPa

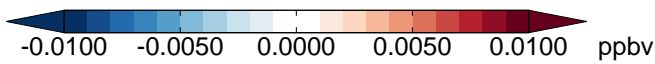
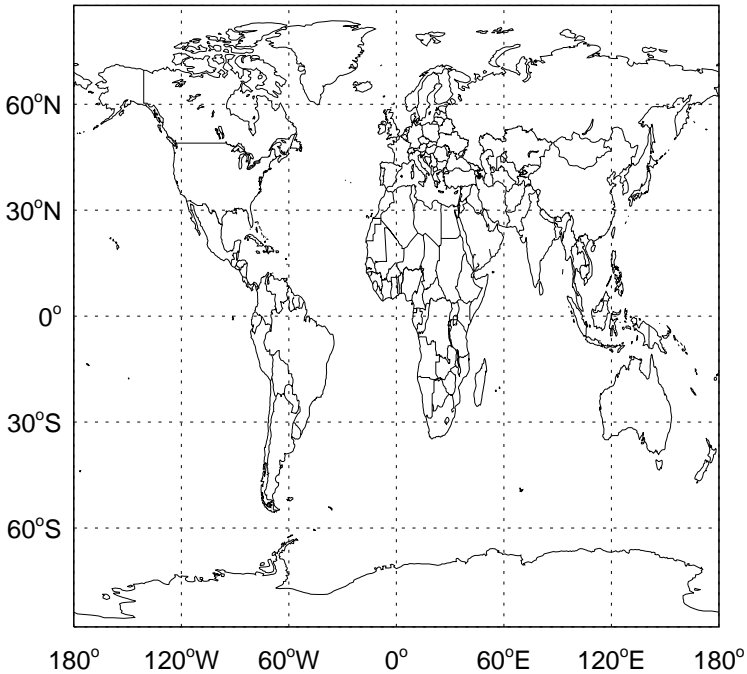
GC\_12.0.0 - v11-02f-Run1  
CH3Br - Diff @ Surface for Apr



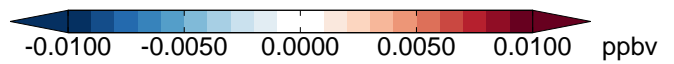
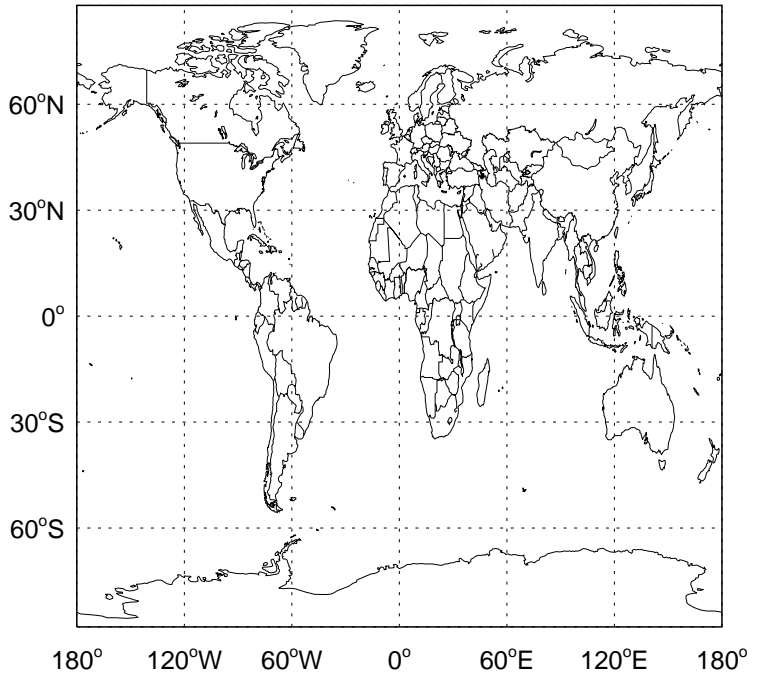
GC\_12.0.0 - v11-02f-Run1  
CH3Br- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH3Br - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
CH3Br- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

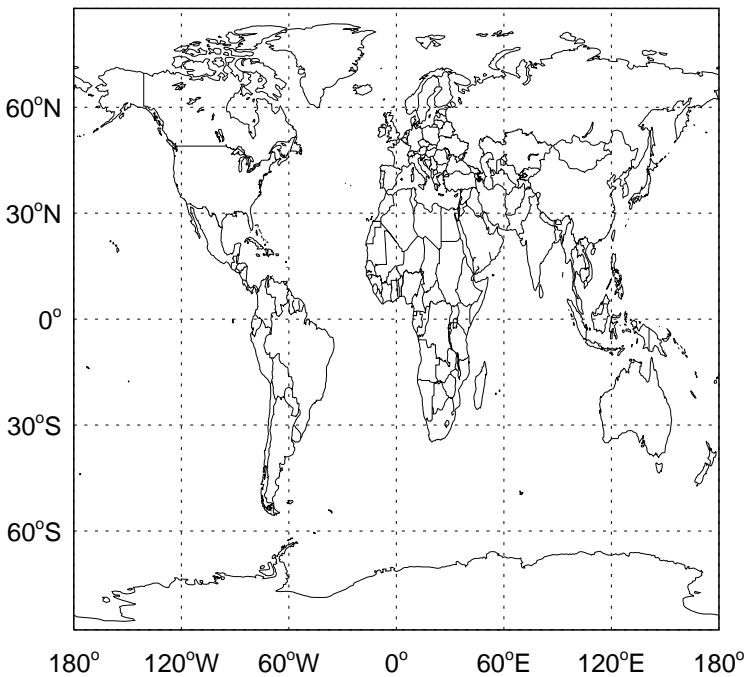
GC\_12.0.0 - v11-02f-Run1  
MPN - Diff @ Surface for Apr



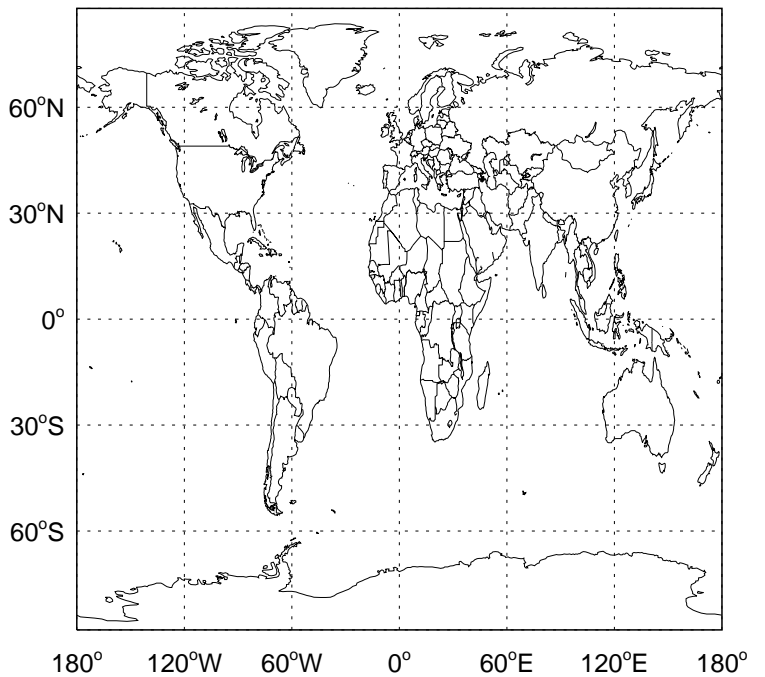
GC\_12.0.0 - v11-02f-Run1  
MPN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MPN - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
MPN- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

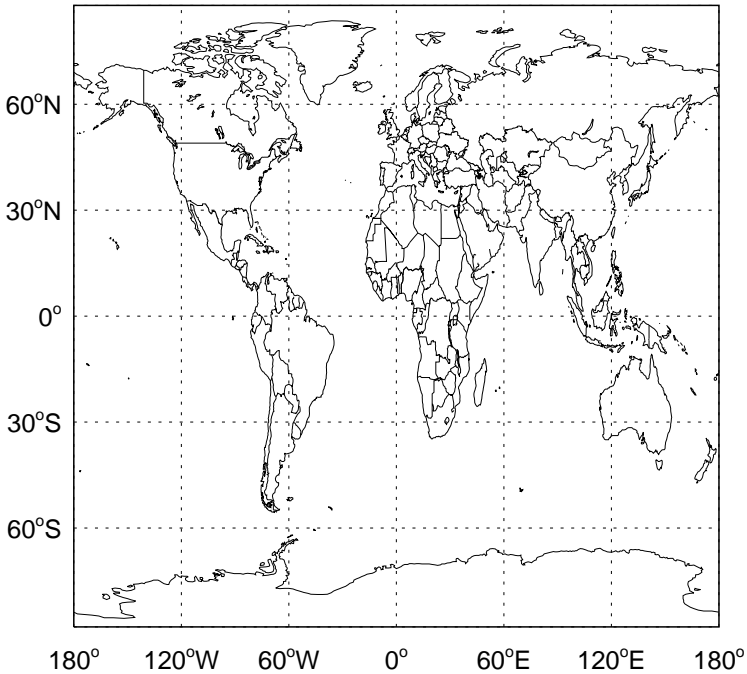
GC\_12.0.0 - v11-02f-Run1  
ISOPND - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ISOPND- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOPND - Diff @ Surface for Apr

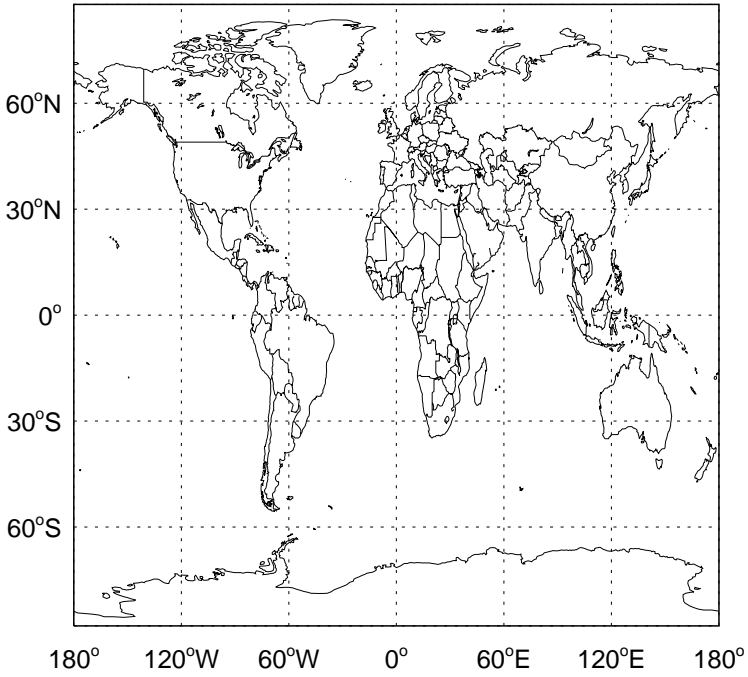


GC\_12.0.0 - v11-02e-Run1  
ISOPND- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

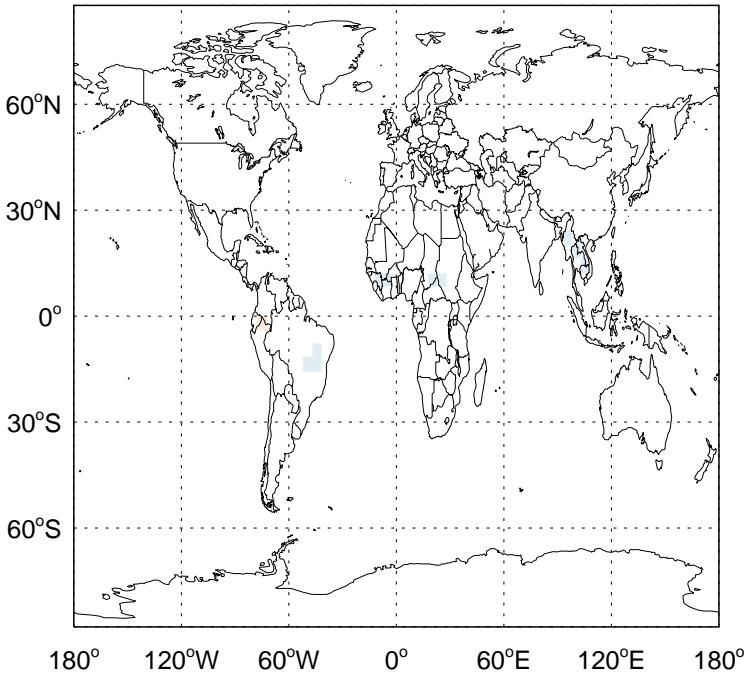
GC\_12.0.0 - v11-02f-Run1  
ISOPNB - Diff @ Surface for Apr



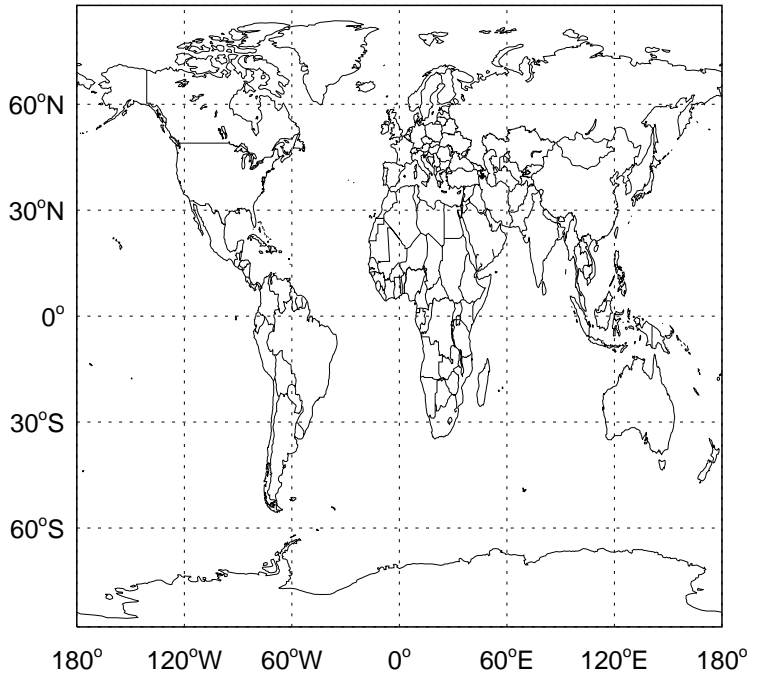
GC\_12.0.0 - v11-02f-Run1  
ISOPNB- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOPNB - Diff @ Surface for Apr



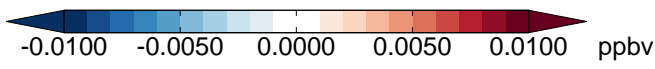
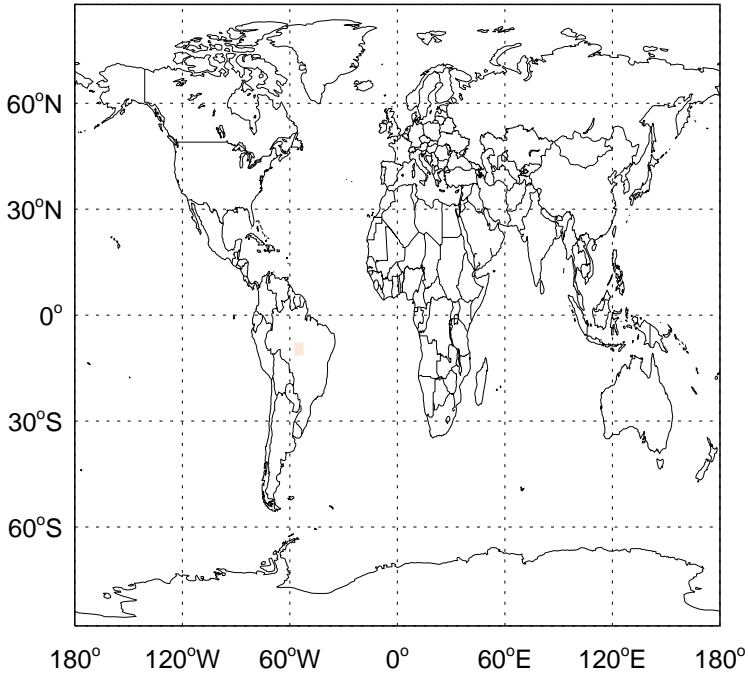
GC\_12.0.0 - v11-02e-Run1  
ISOPNB- Diff @ 500 hPa for Apr



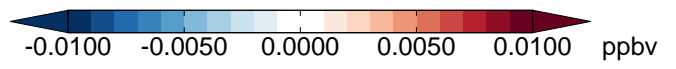


# GEOS-Chem Difference Maps at surface and 500 hPa

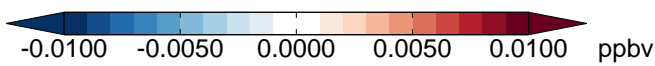
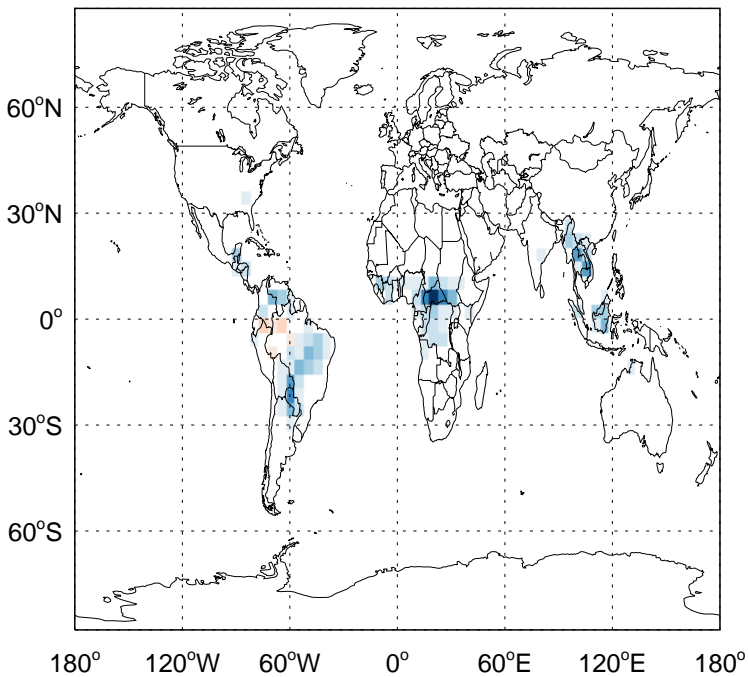
GC\_12.0.0 - v11-02f-Run1  
MOBA - Diff @ Surface for Apr



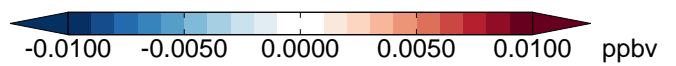
GC\_12.0.0 - v11-02f-Run1  
MOBA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MOBA - Diff @ Surface for Apr

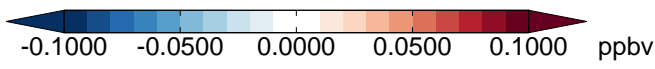
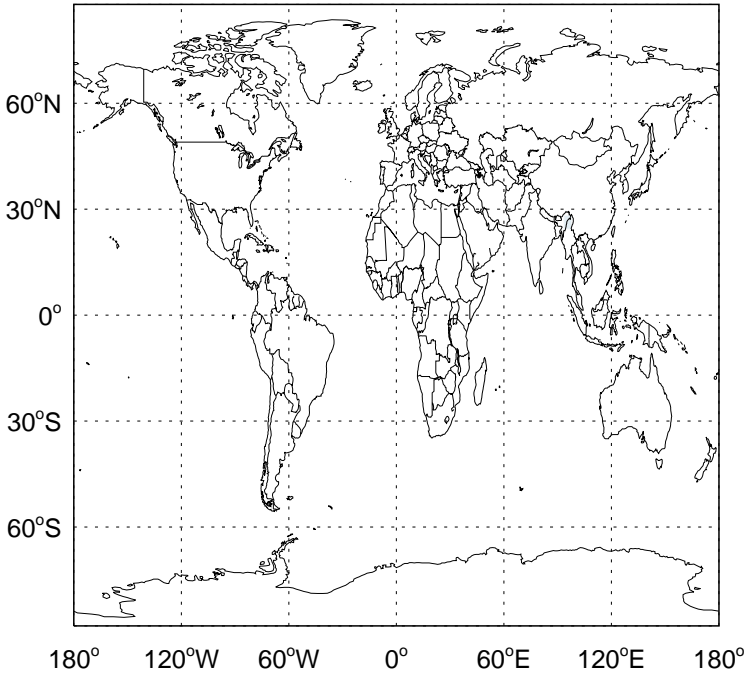


GC\_12.0.0 - v11-02e-Run1  
MOBA- Diff @ 500 hPa for Apr

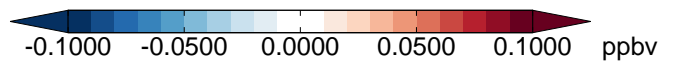


# GEOS-Chem Difference Maps at surface and 500 hPa

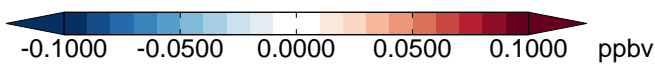
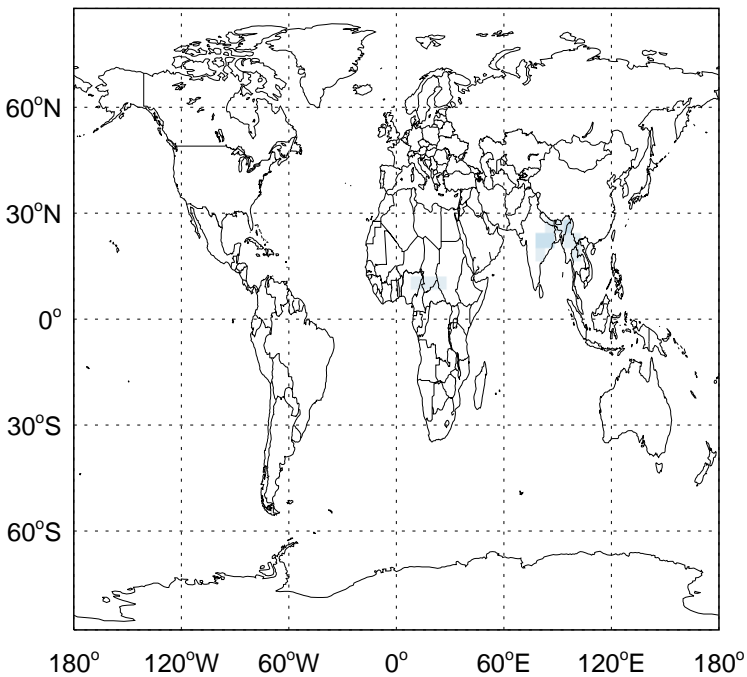
GC\_12.0.0 - v11-02f-Run1  
PROPNN - Diff @ Surface for Apr



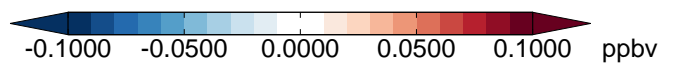
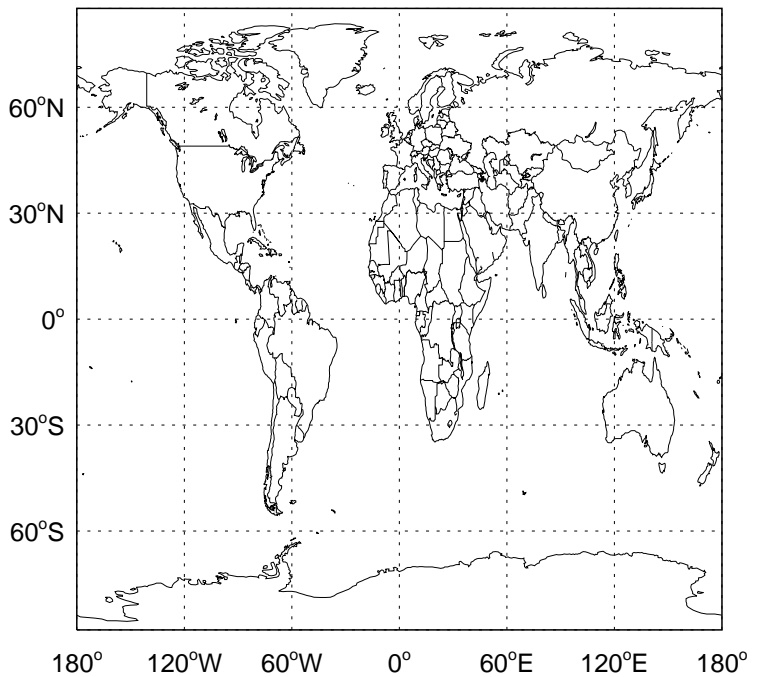
GC\_12.0.0 - v11-02f-Run1  
PROPNN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
PROPNN - Diff @ Surface for Apr

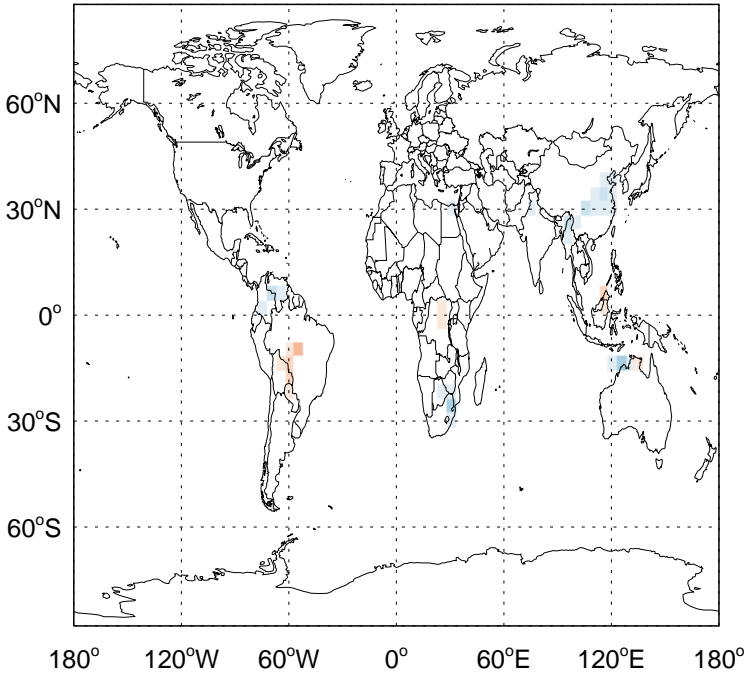


GC\_12.0.0 - v11-02e-Run1  
PROPNN- Diff @ 500 hPa for Apr

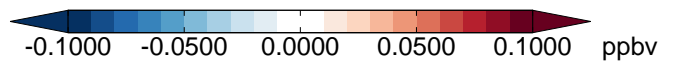
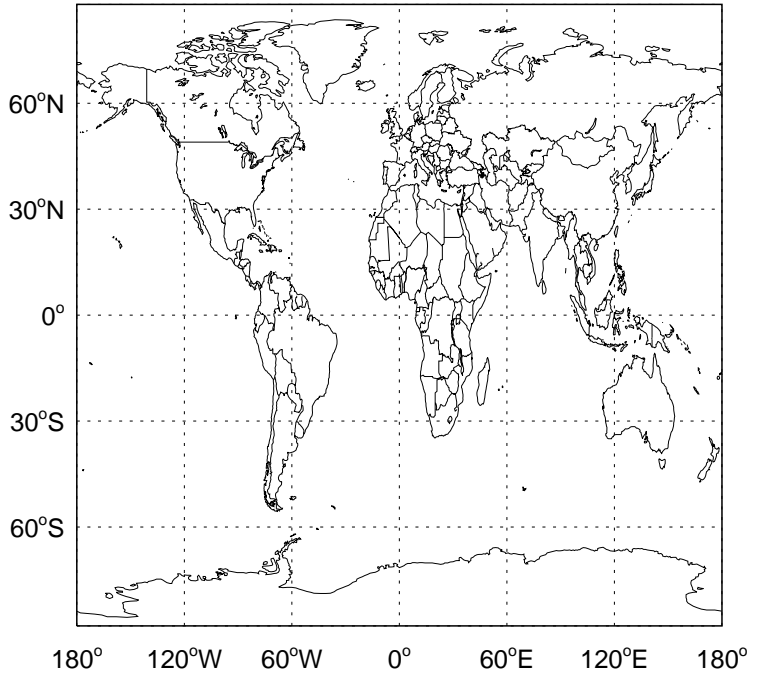


# GEOS-Chem Difference Maps at surface and 500 hPa

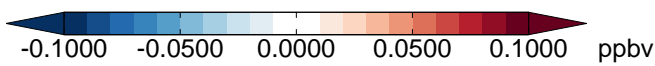
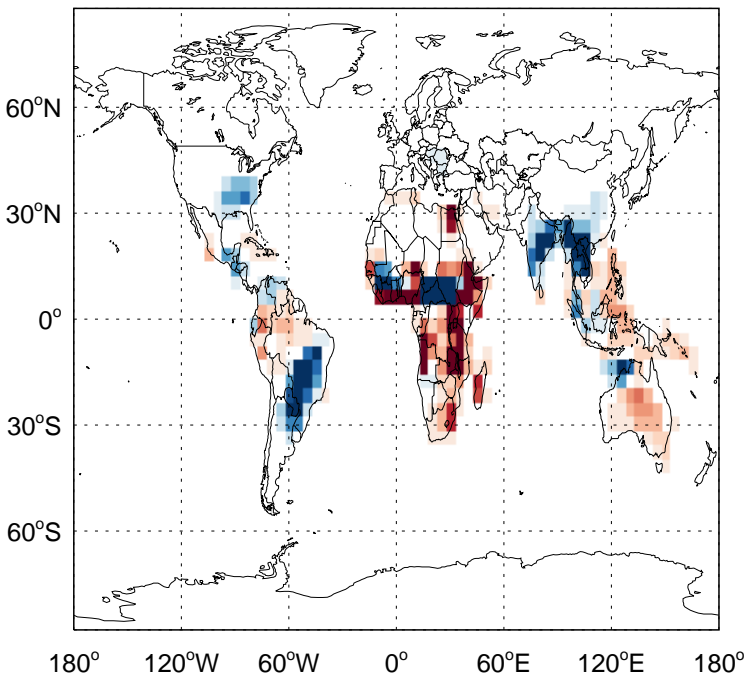
GC\_12.0.0 - v11-02f-Run1  
HAC - Diff @ Surface for Apr



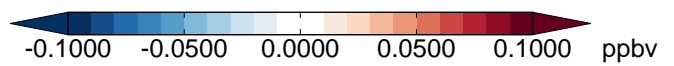
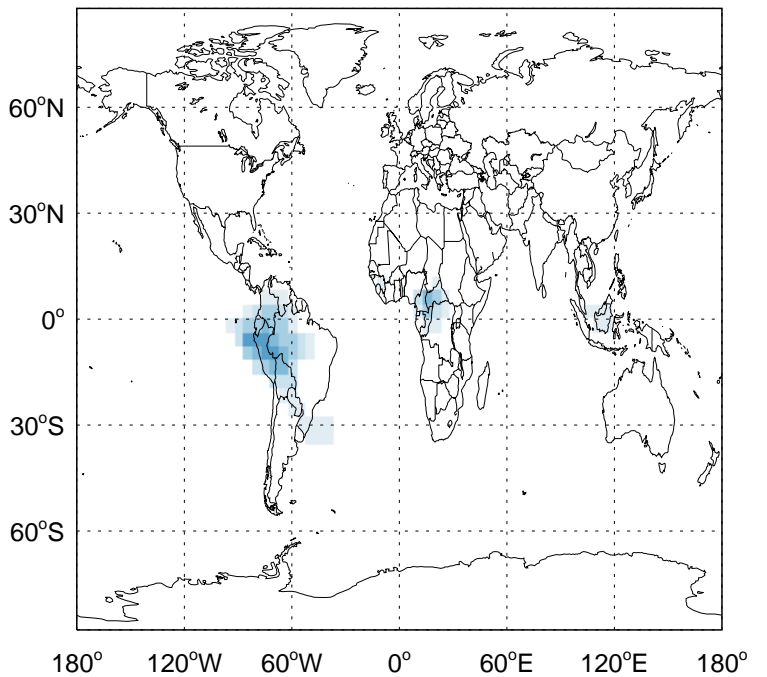
GC\_12.0.0 - v11-02f-Run1  
HAC- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HAC - Diff @ Surface for Apr

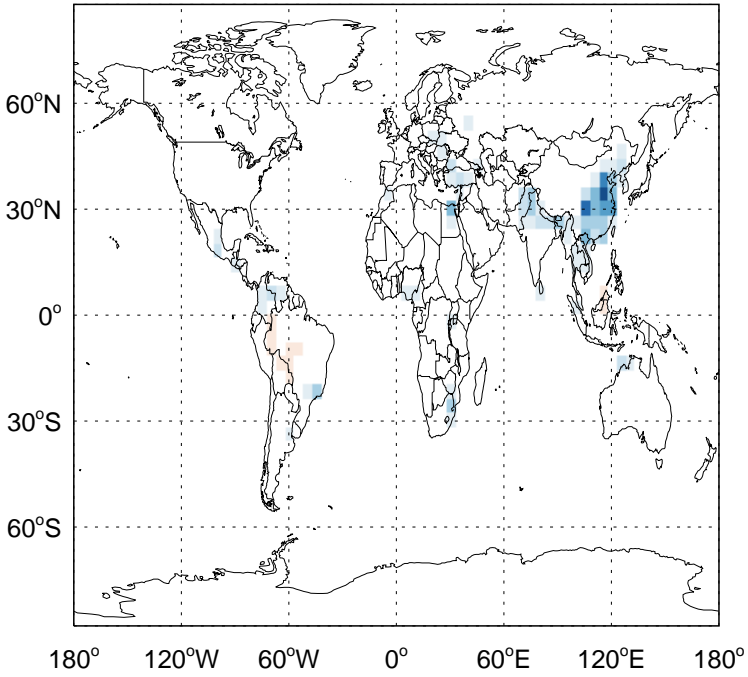


GC\_12.0.0 - v11-02e-Run1  
HAC- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

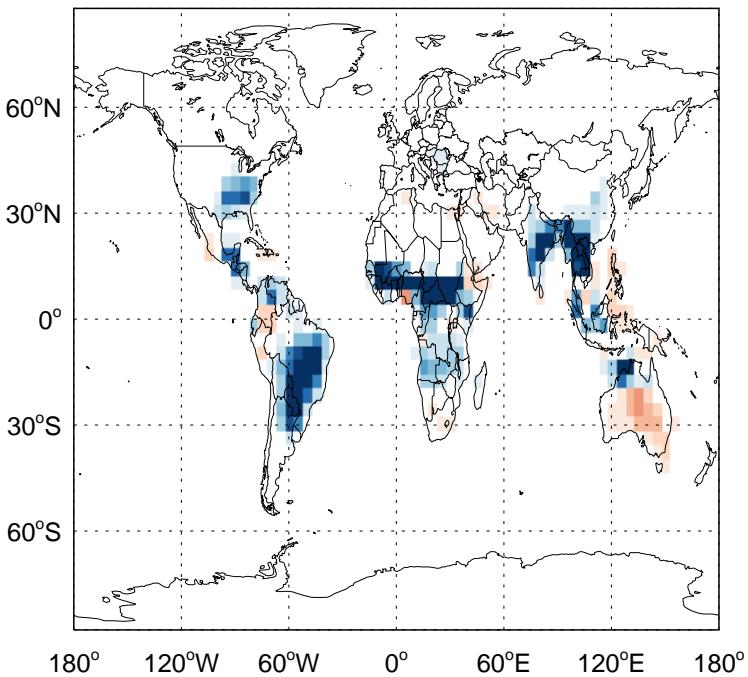
GC\_12.0.0 - v11-02f-Run1  
GLYC - Diff @ Surface for Apr



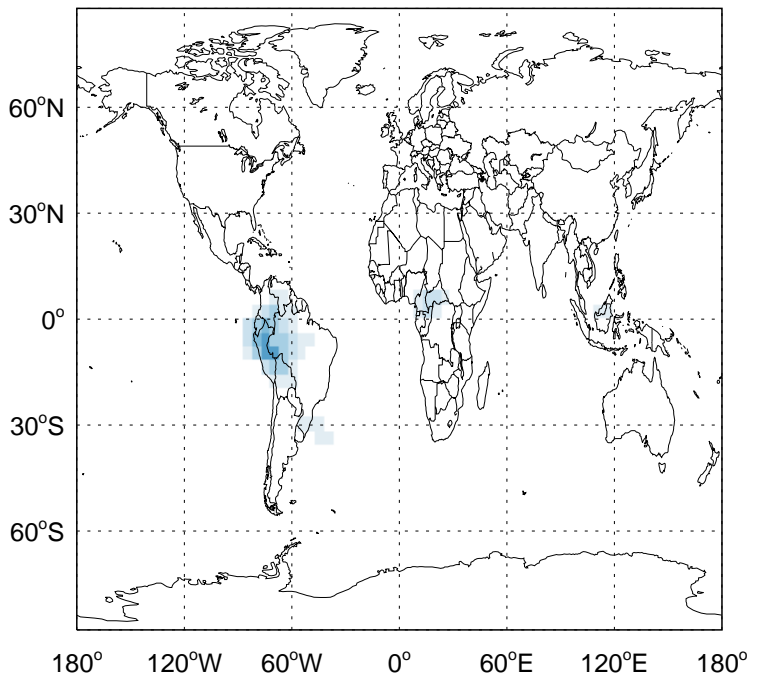
GC\_12.0.0 - v11-02f-Run1  
GLYC- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
GLYC - Diff @ Surface for Apr

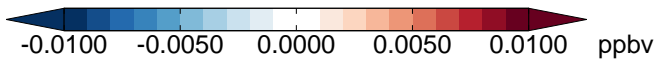
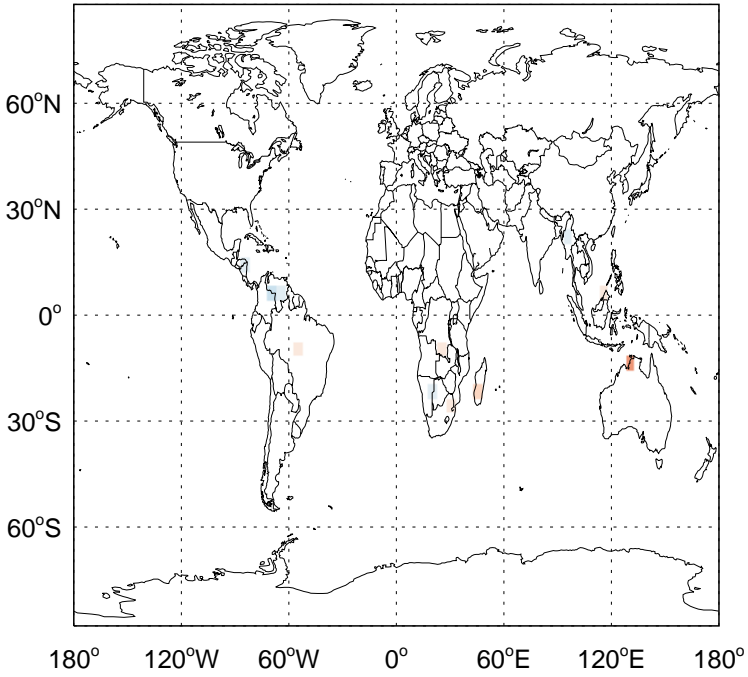


GC\_12.0.0 - v11-02e-Run1  
GLYC- Diff @ 500 hPa for Apr

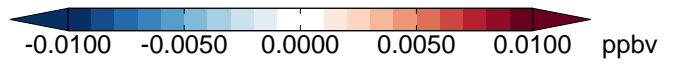
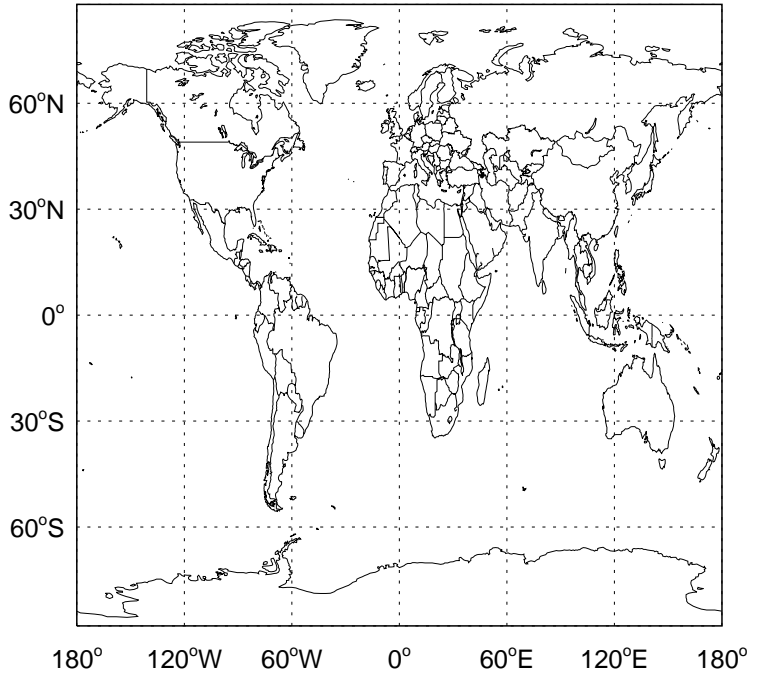


# GEOS-Chem Difference Maps at surface and 500 hPa

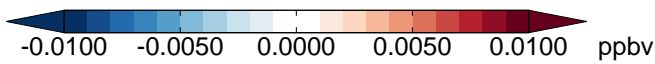
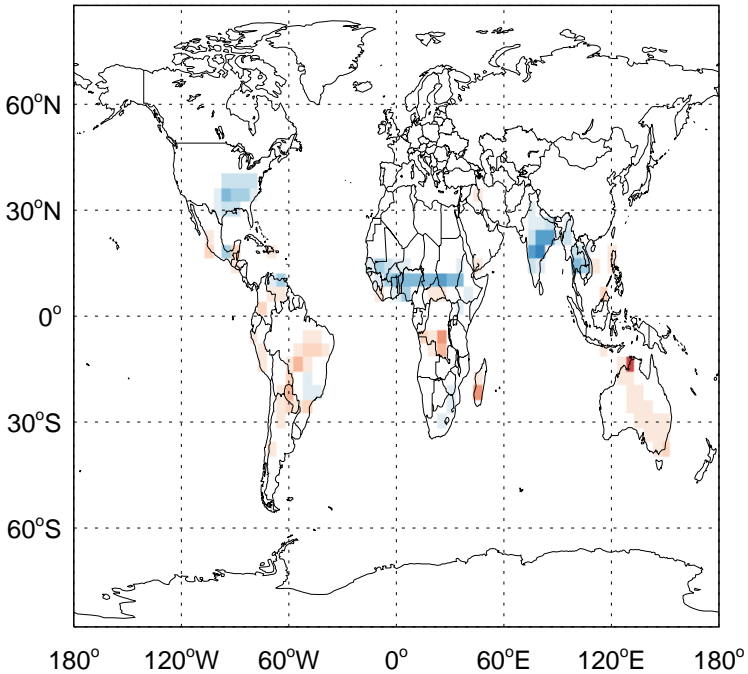
GC\_12.0.0 - v11-02f-Run1  
MVKN - Diff @ Surface for Apr



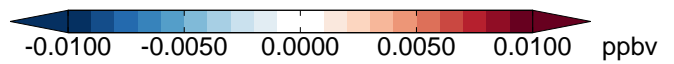
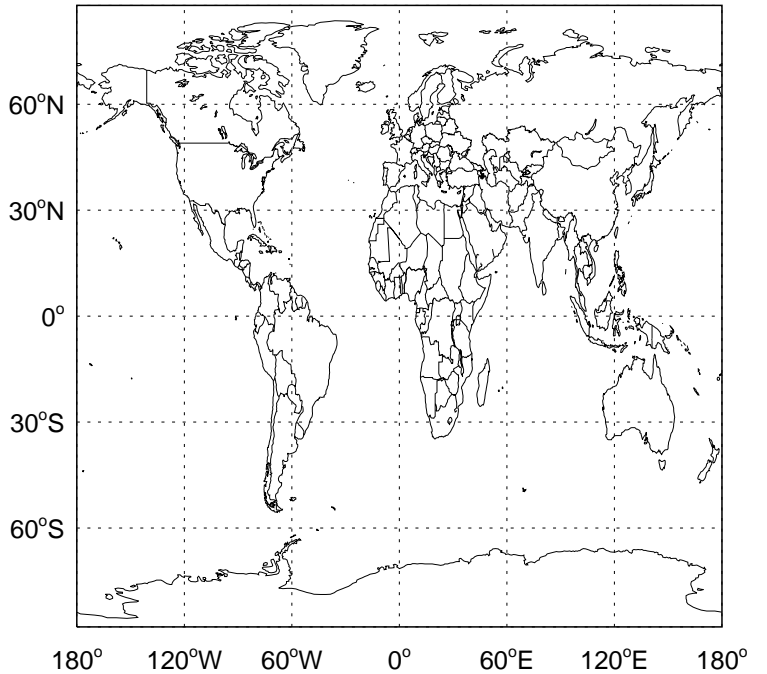
GC\_12.0.0 - v11-02f-Run1  
MVKN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MVKN - Diff @ Surface for Apr

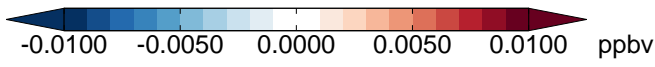
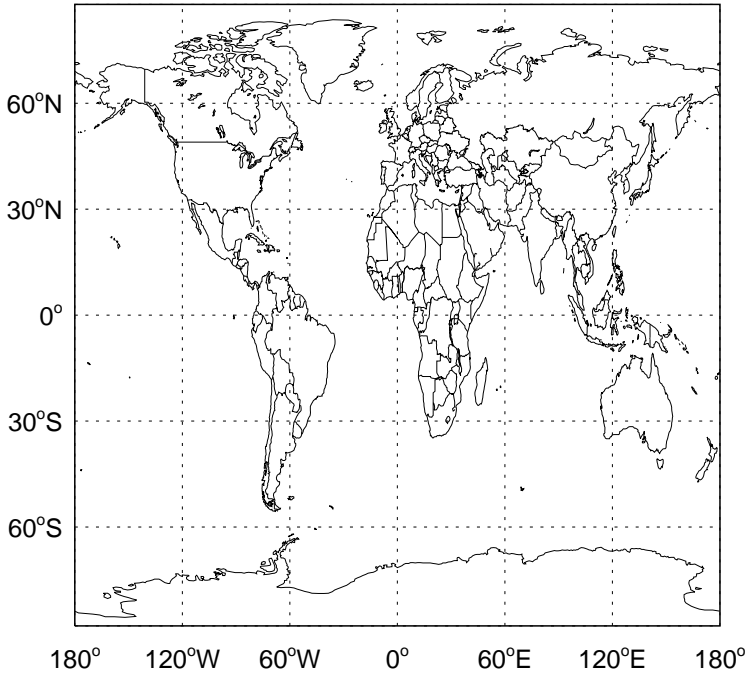


GC\_12.0.0 - v11-02e-Run1  
MVKN- Diff @ 500 hPa for Apr

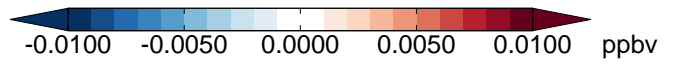


# GEOS-Chem Difference Maps at surface and 500 hPa

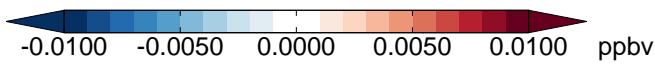
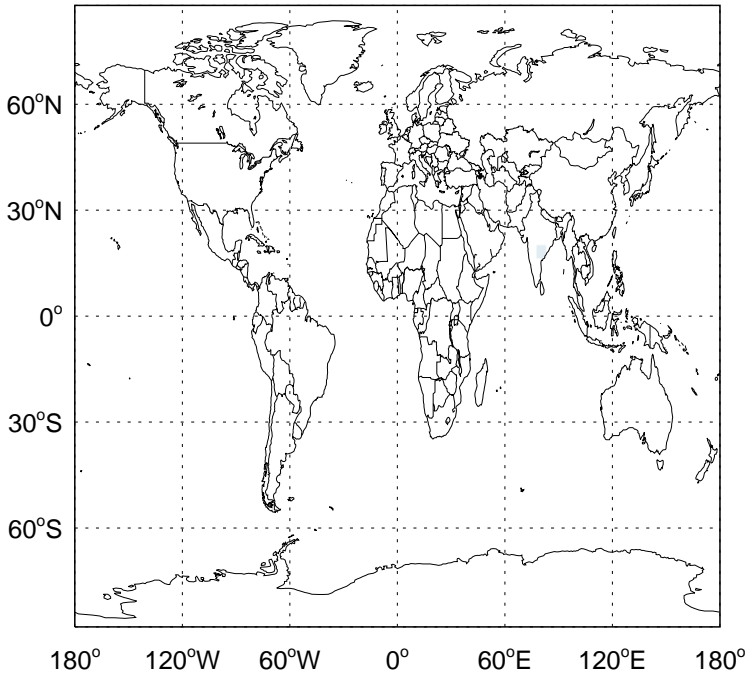
GC\_12.0.0 - v11-02f-Run1  
MACRN - Diff @ Surface for Apr



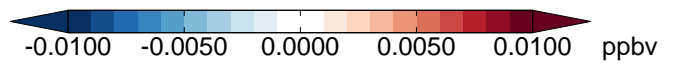
GC\_12.0.0 - v11-02f-Run1  
MACRN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MACRN - Diff @ Surface for Apr

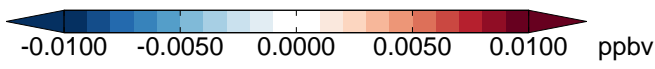
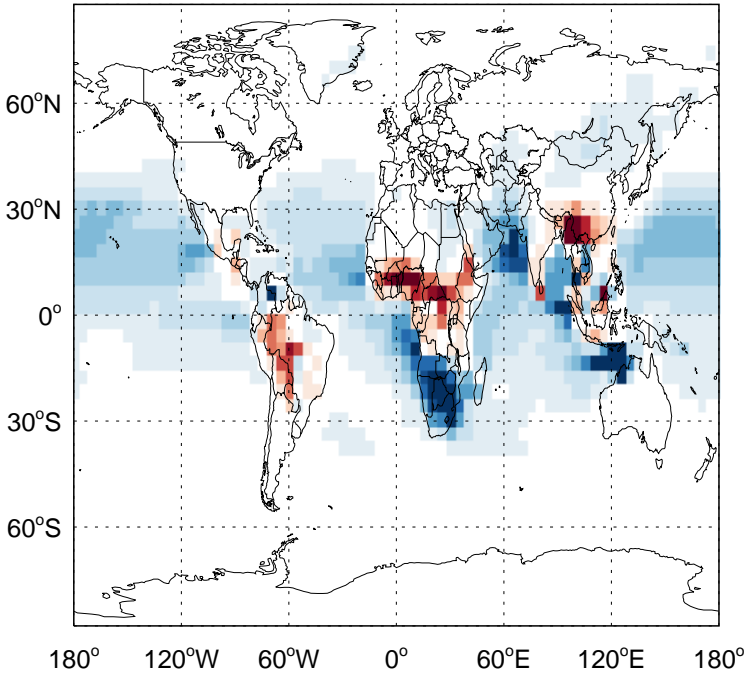


GC\_12.0.0 - v11-02e-Run1  
MACRN- Diff @ 500 hPa for Apr

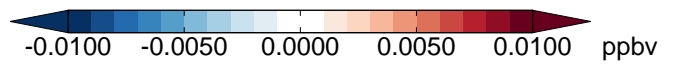
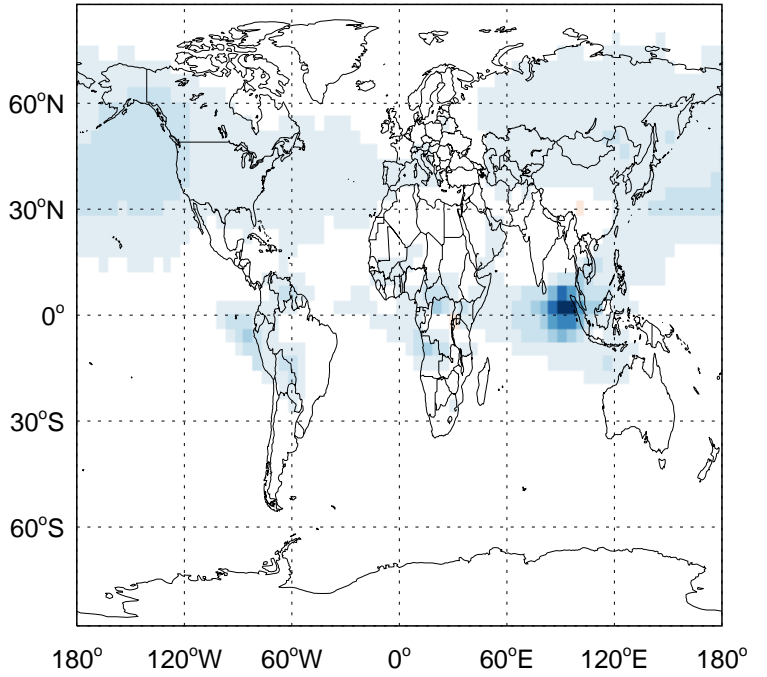


# GEOS-Chem Difference Maps at surface and 500 hPa

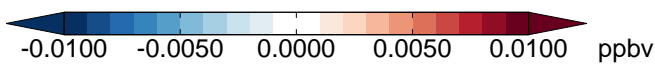
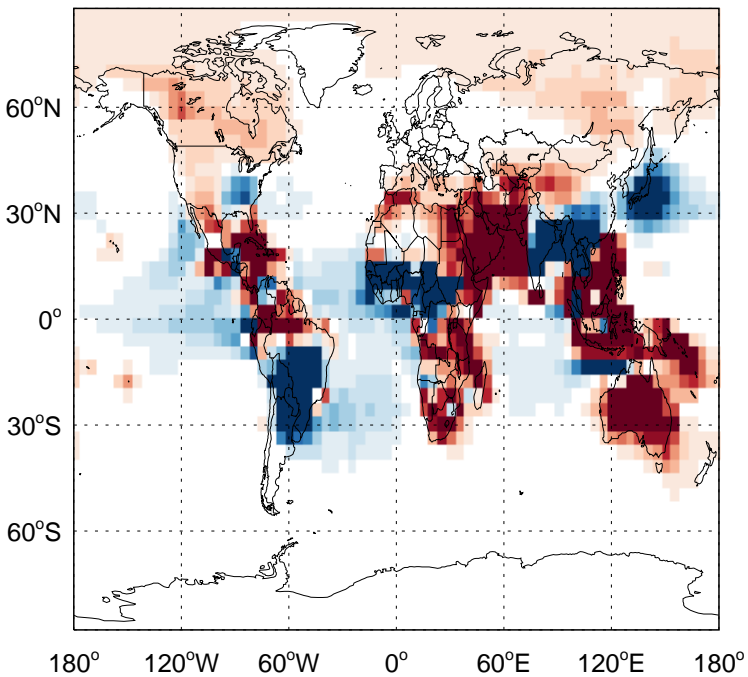
GC\_12.0.0 - v11-02f-Run1  
MAP - Diff @ Surface for Apr



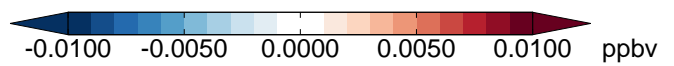
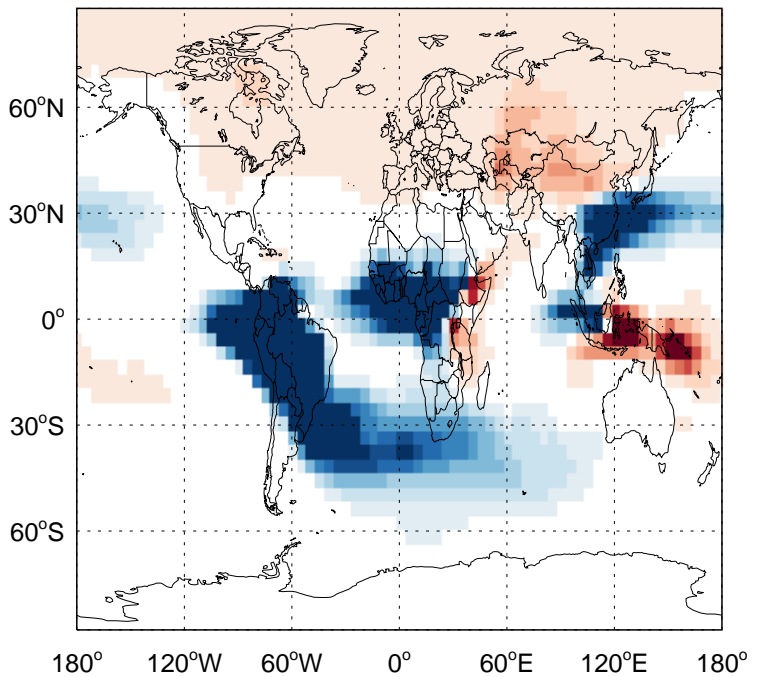
GC\_12.0.0 - v11-02f-Run1  
MAP- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MAP - Diff @ Surface for Apr

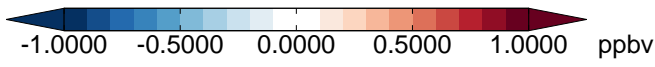
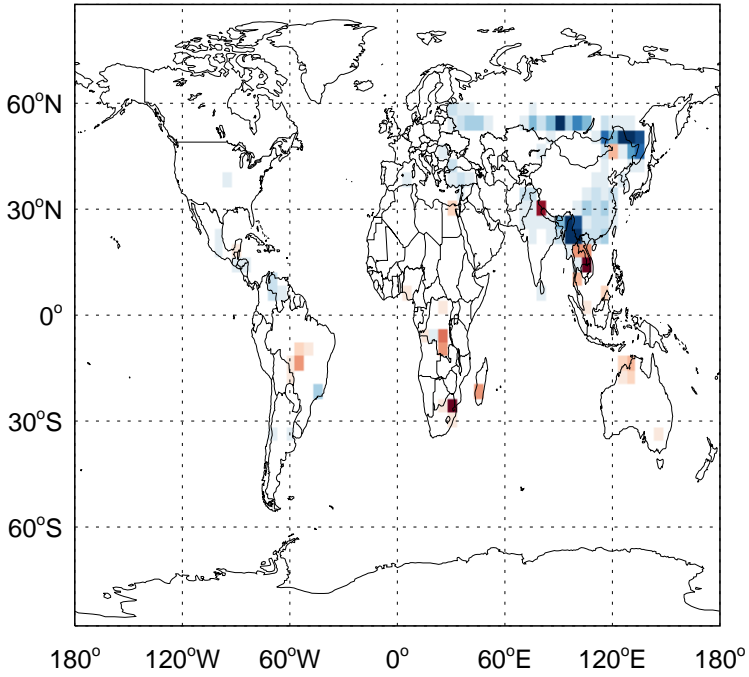


GC\_12.0.0 - v11-02e-Run1  
MAP- Diff @ 500 hPa for Apr

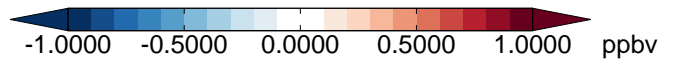
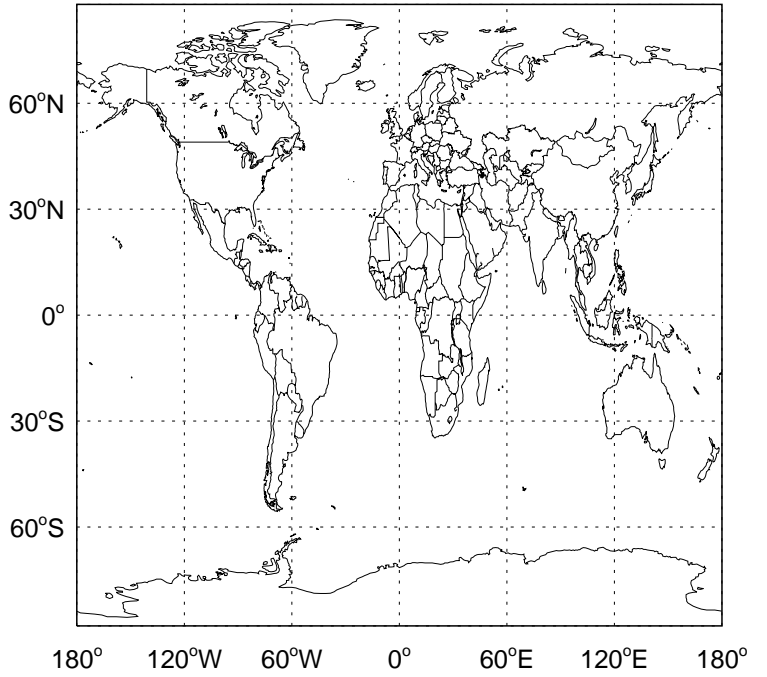


# GEOS-Chem Difference Maps at surface and 500 hPa

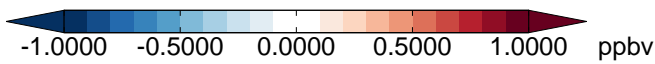
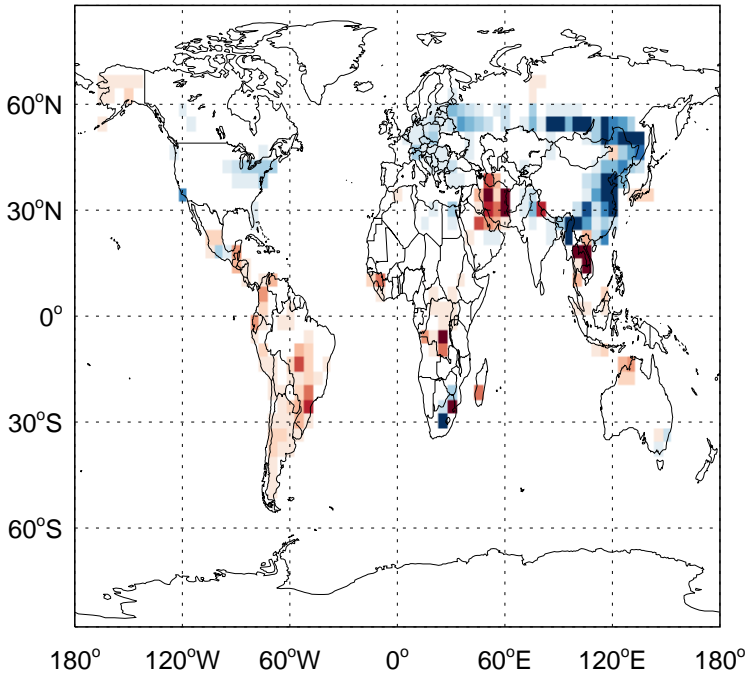
GC\_12.0.0 - v11-02f-Run1  
NO2 - Diff @ Surface for Apr



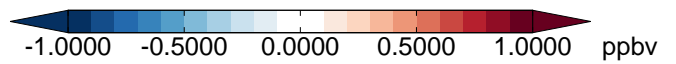
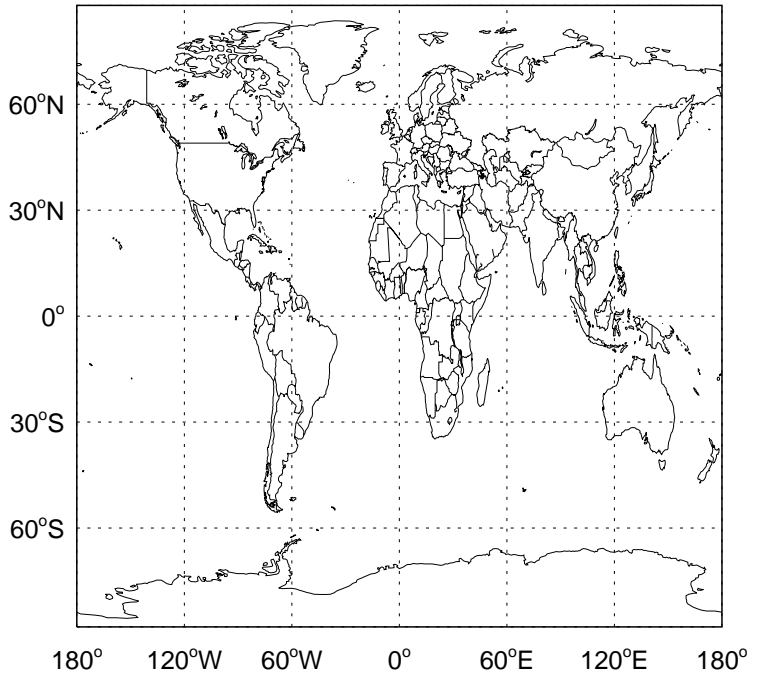
GC\_12.0.0 - v11-02f-Run1  
NO2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NO2 - Diff @ Surface for Apr



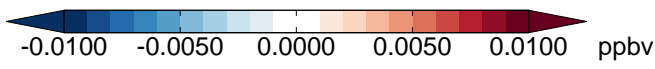
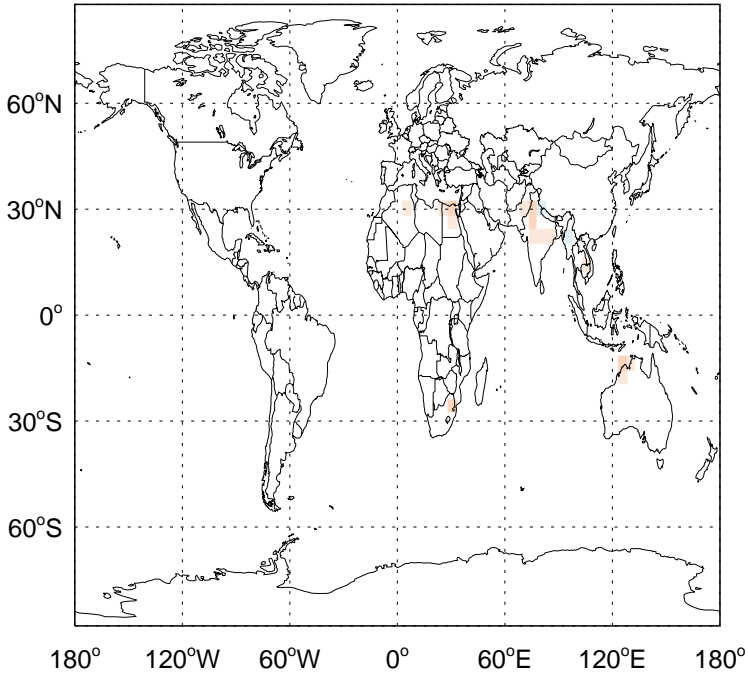
GC\_12.0.0 - v11-02e-Run1  
NO2- Diff @ 500 hPa for Apr



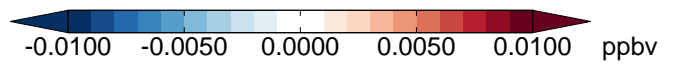


# GEOS-Chem Difference Maps at surface and 500 hPa

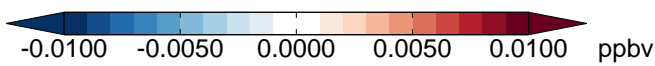
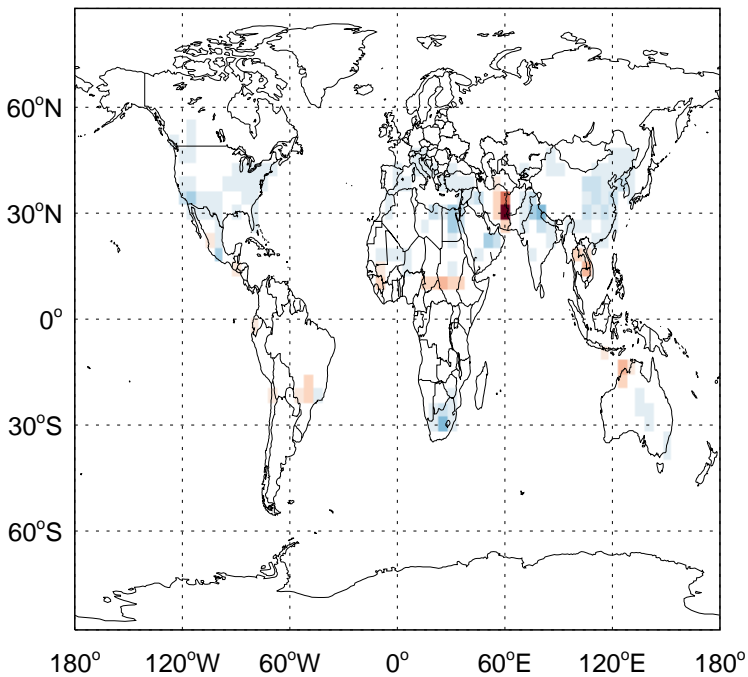
GC\_12.0.0 - v11-02f-Run1  
NO3 - Diff @ Surface for Apr



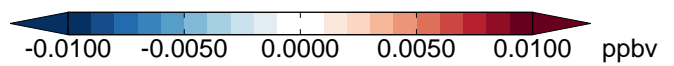
GC\_12.0.0 - v11-02f-Run1  
NO3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
NO3 - Diff @ Surface for Apr

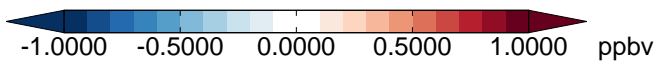
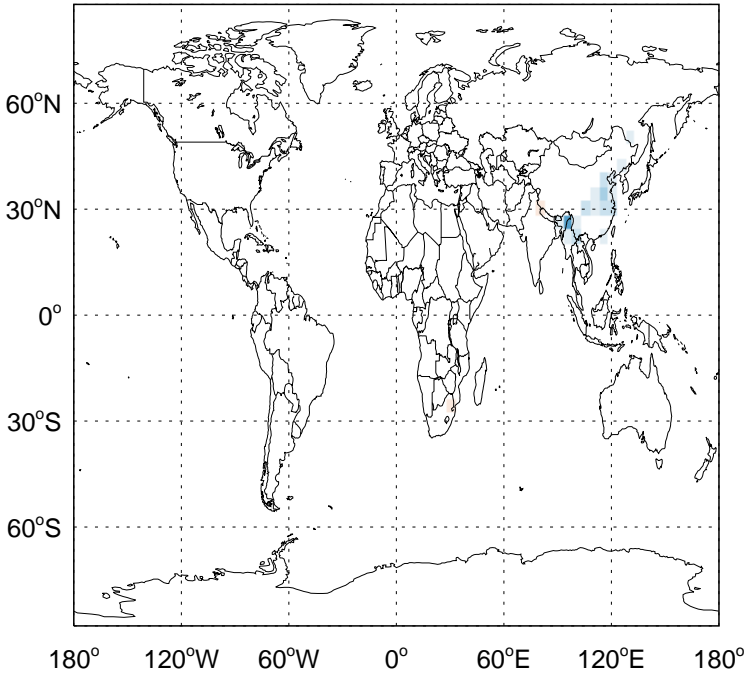


GC\_12.0.0 - v11-02e-Run1  
NO3- Diff @ 500 hPa for Apr

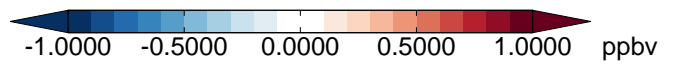


# GEOS-Chem Difference Maps at surface and 500 hPa

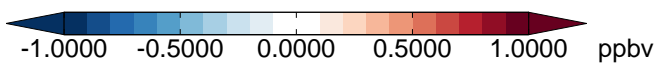
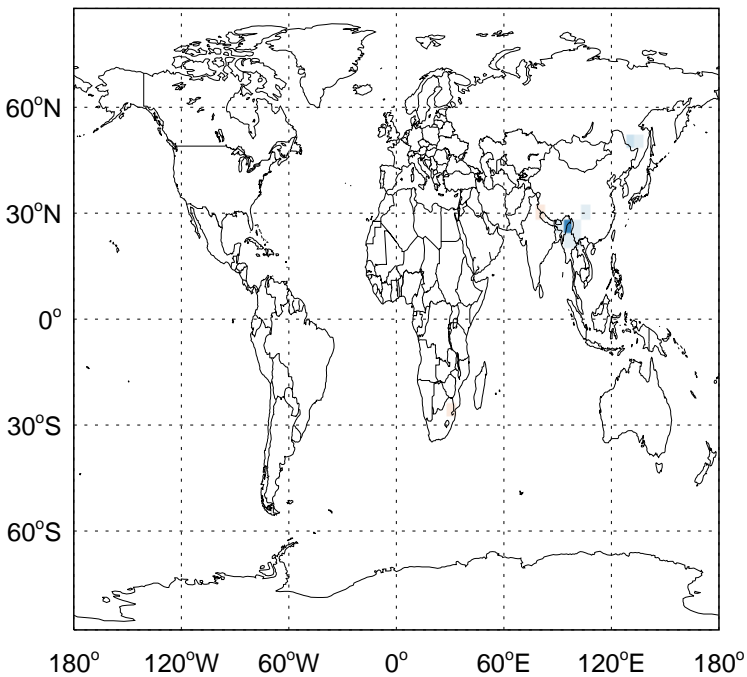
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>2</sub> - Diff @ Surface for Apr



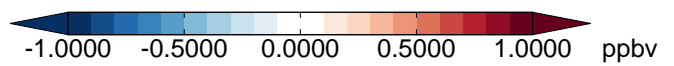
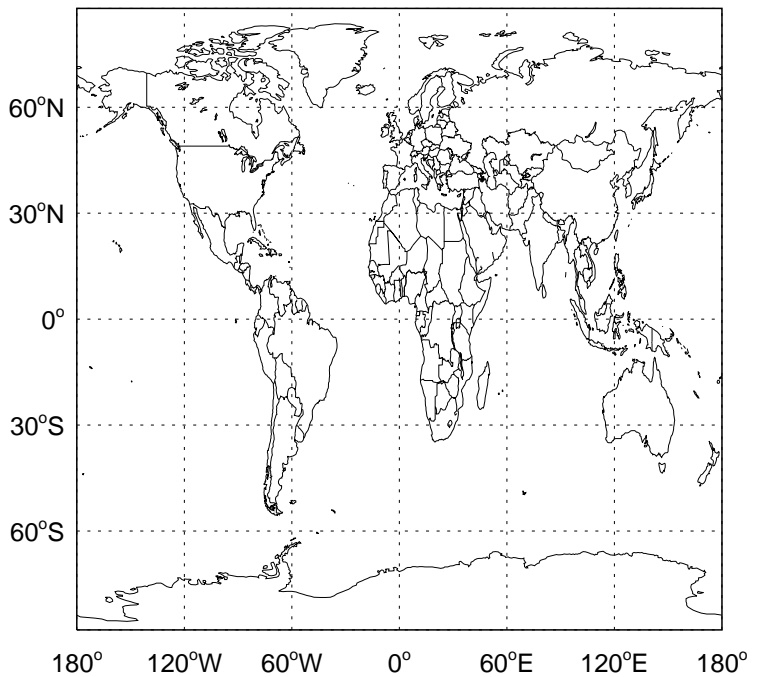
GC\_12.0.0 - v11-02f-Run1  
HNO<sub>2</sub> - Diff @ 500 hPa for Apr



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

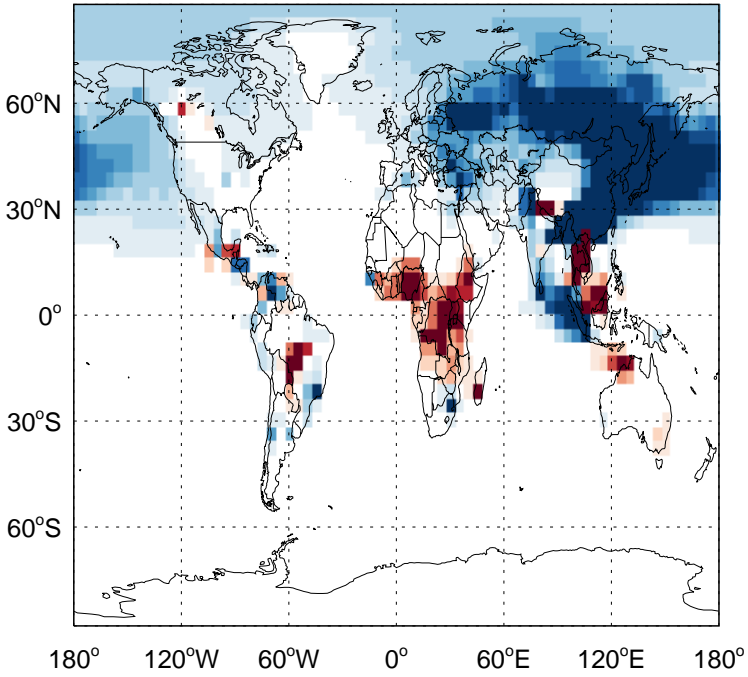


GC\_12.0.0 - v11-02e-Run1  
HNO<sub>2</sub> - Diff @ 500 hPa for Apr

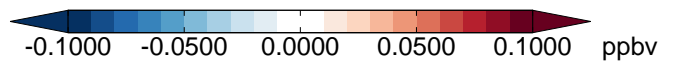
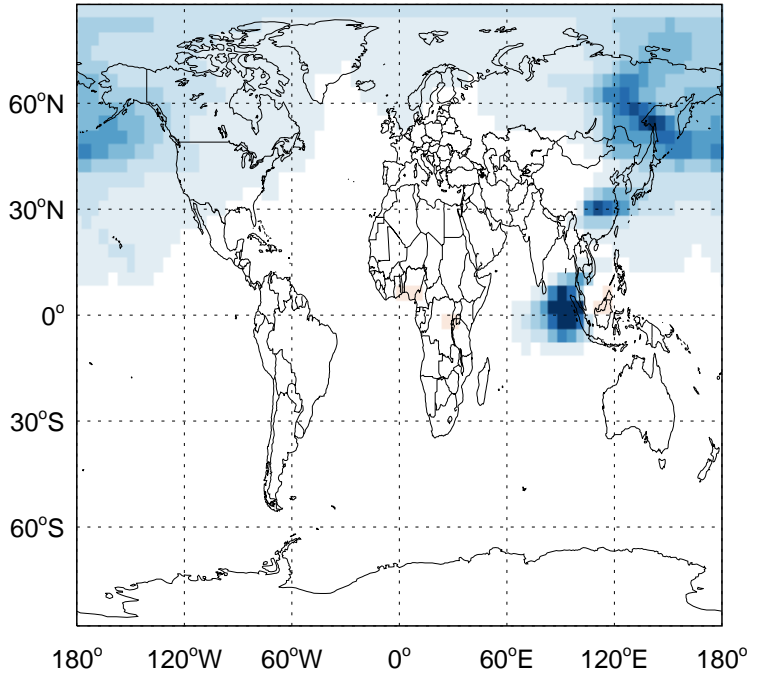


# GEOS-Chem Difference Maps at surface and 500 hPa

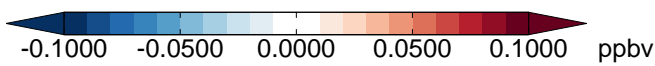
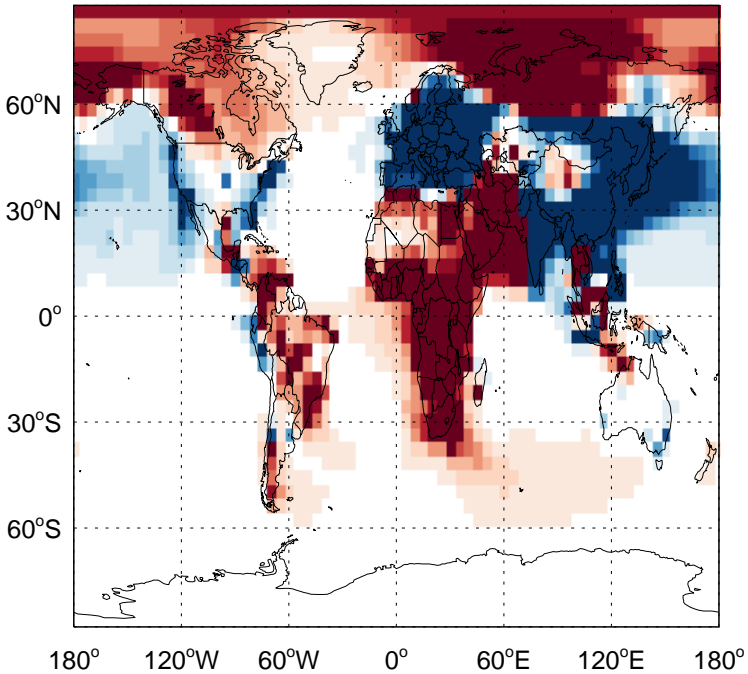
GC\_12.0.0 - v11-02f-Run1  
BENZ - Diff @ Surface for Apr



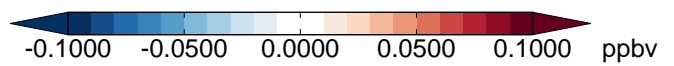
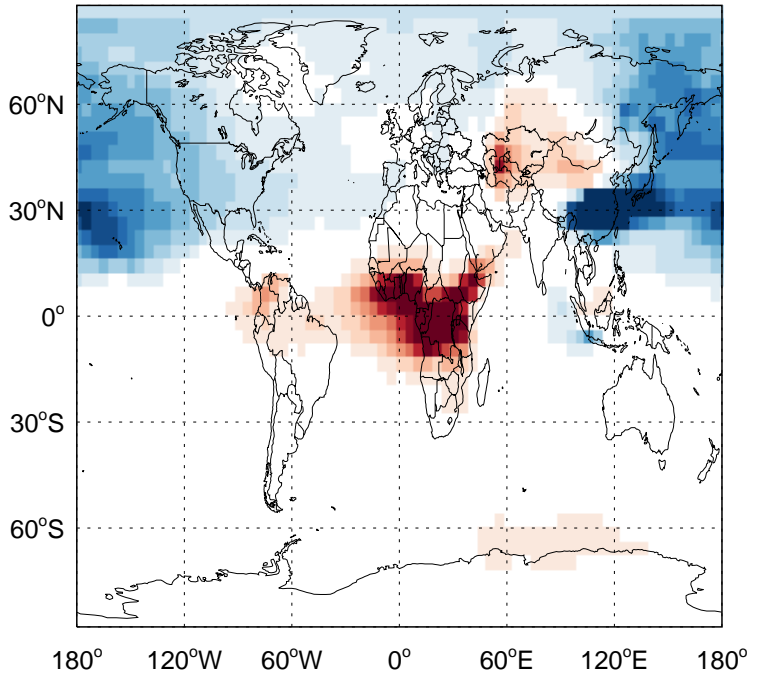
GC\_12.0.0 - v11-02f-Run1  
BENZ- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BENZ - Diff @ Surface for Apr

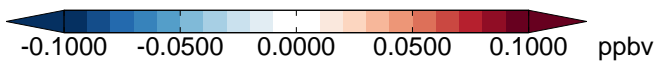
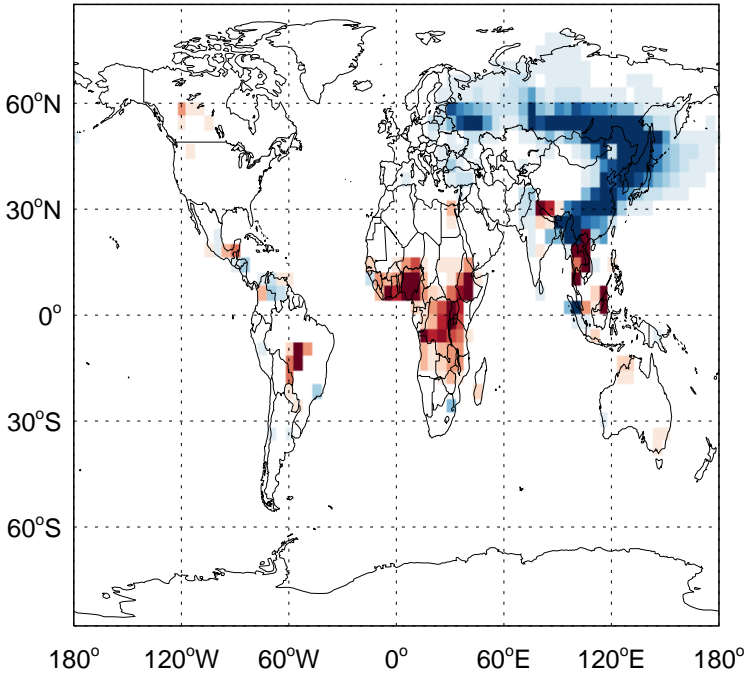


GC\_12.0.0 - v11-02e-Run1  
BENZ- Diff @ 500 hPa for Apr

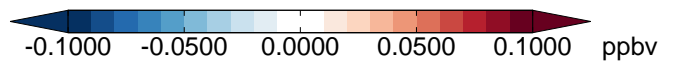
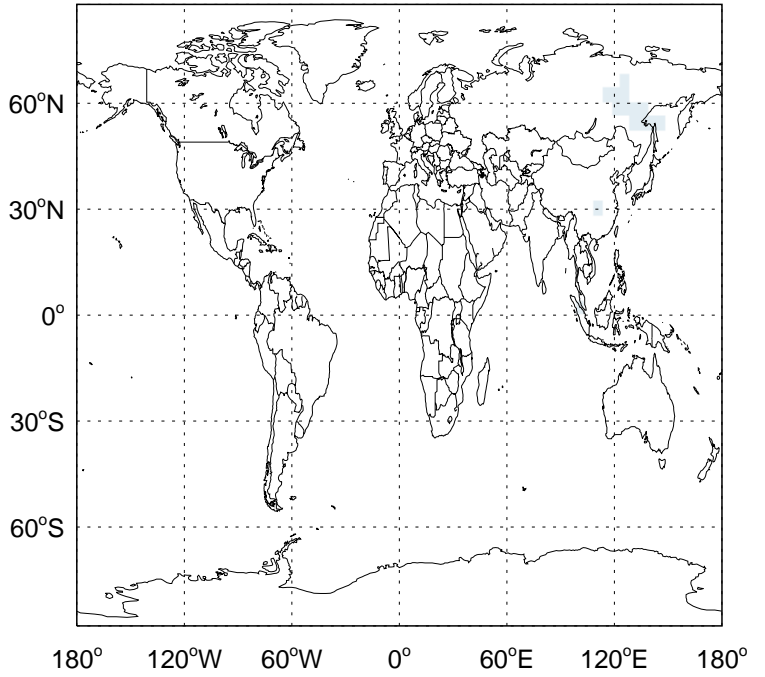


# GEOS-Chem Difference Maps at surface and 500 hPa

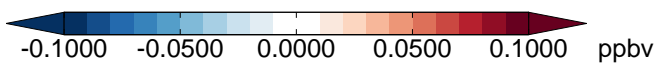
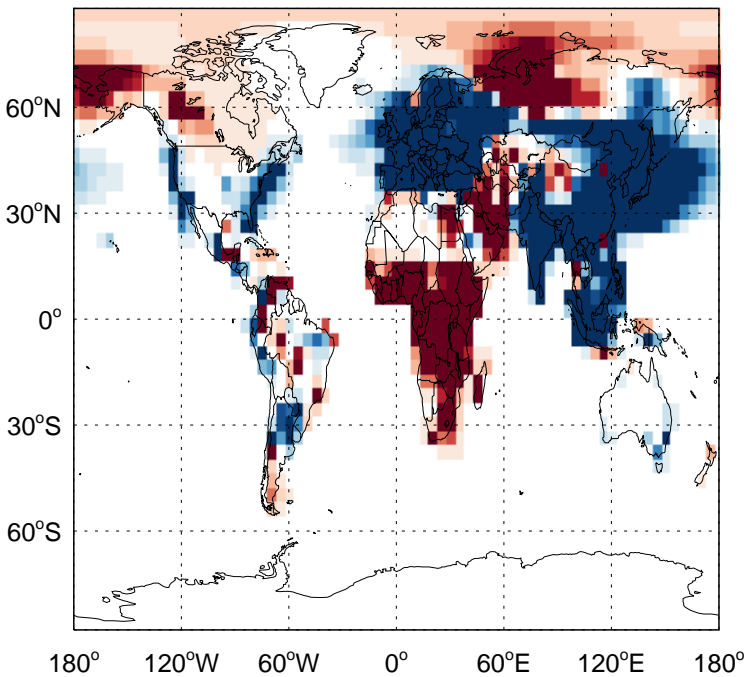
GC\_12.0.0 - v11-02f-Run1  
TOLU - Diff @ Surface for Apr



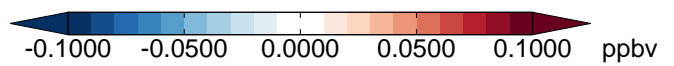
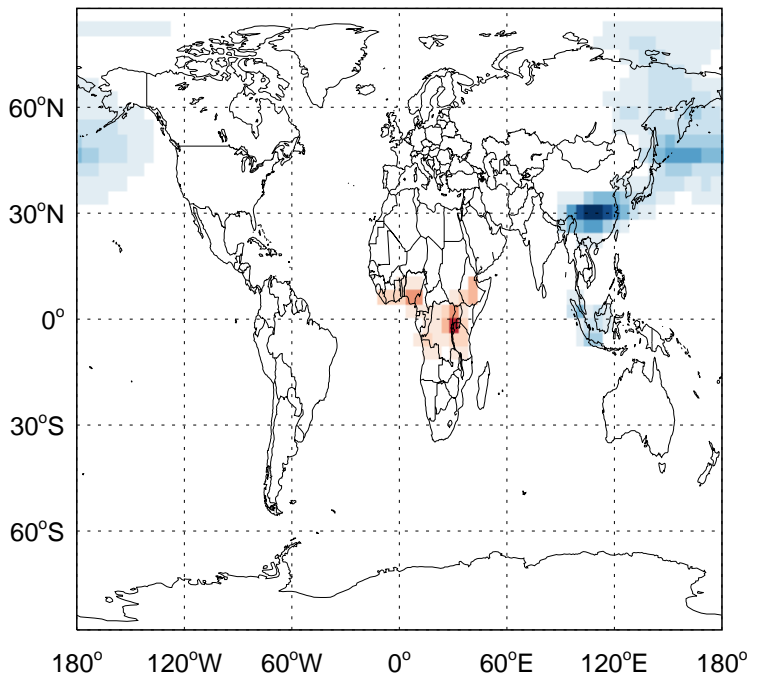
GC\_12.0.0 - v11-02f-Run1  
TOLU- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TOLU - Diff @ Surface for Apr

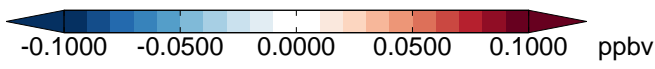
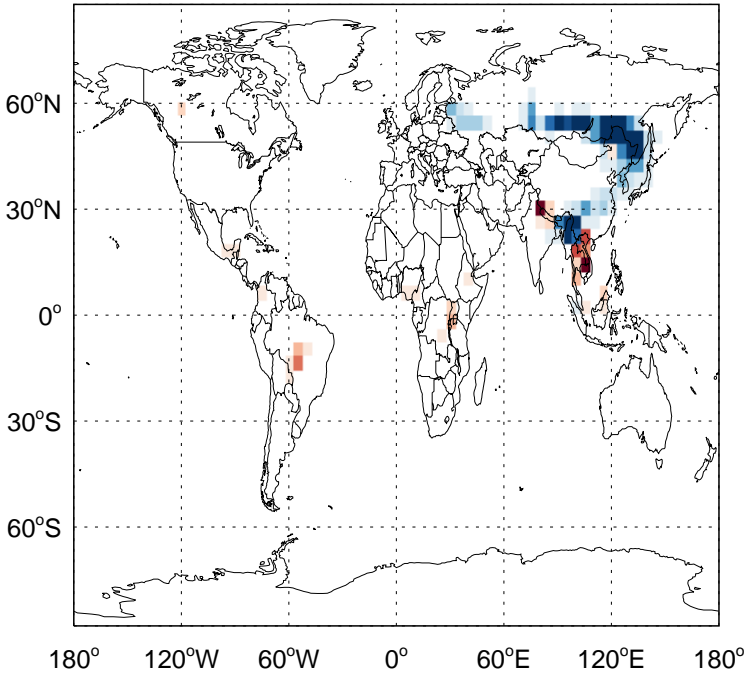


GC\_12.0.0 - v11-02e-Run1  
TOLU- Diff @ 500 hPa for Apr

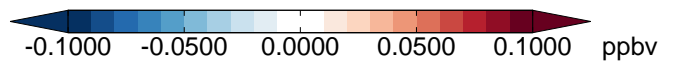


# GEOS-Chem Difference Maps at surface and 500 hPa

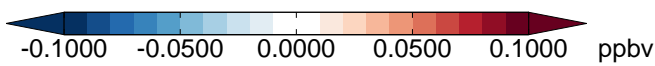
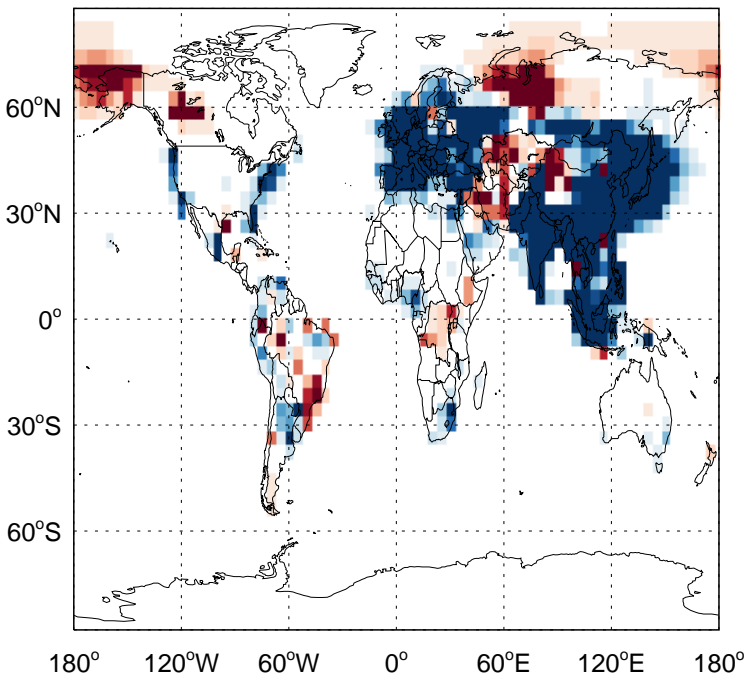
GC\_12.0.0 - v11-02f-Run1  
XYLE - Diff @ Surface for Apr



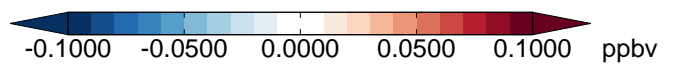
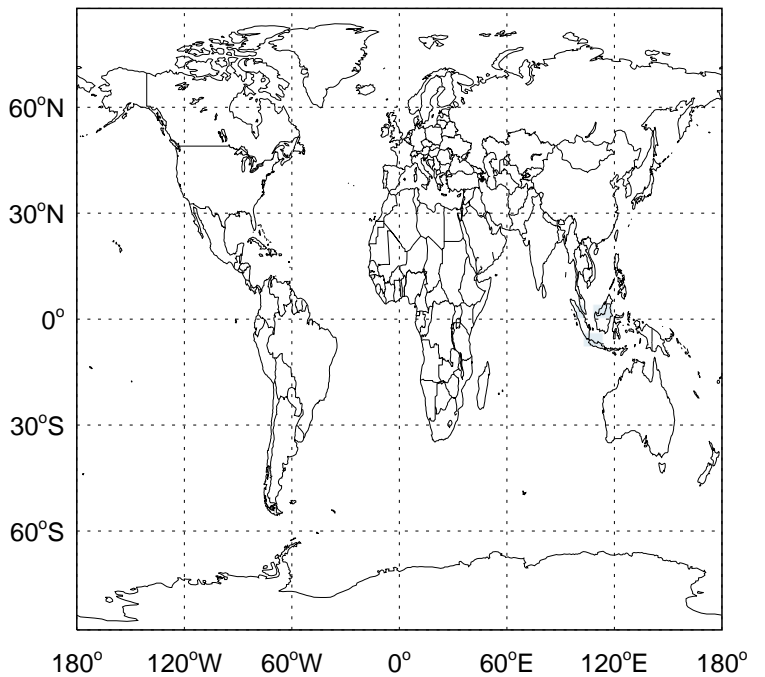
GC\_12.0.0 - v11-02f-Run1  
XYLE- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
XYLE - Diff @ Surface for Apr

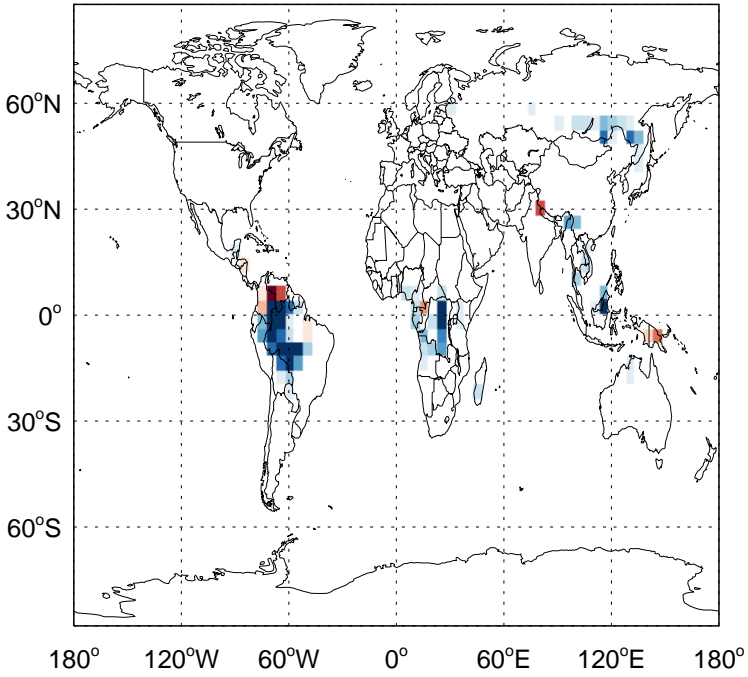


GC\_12.0.0 - v11-02e-Run1  
XYLE- Diff @ 500 hPa for Apr

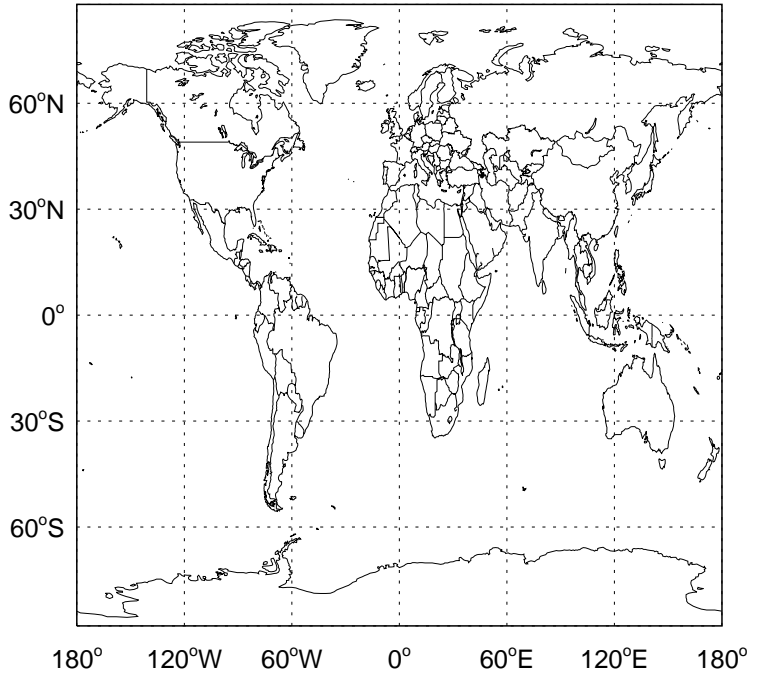


# GEOS-Chem Difference Maps at surface and 500 hPa

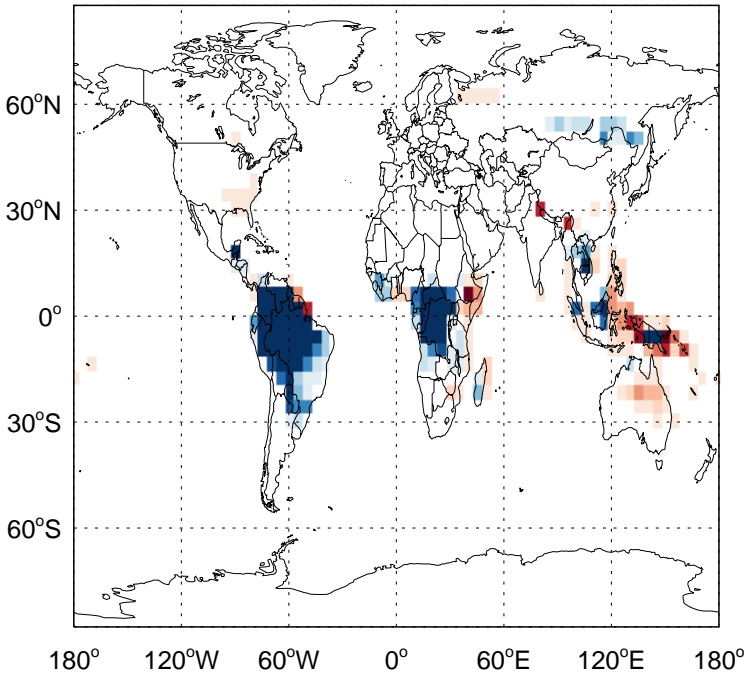
GC\_12.0.0 - v11-02f-Run1  
MTPA - Diff @ Surface for Apr



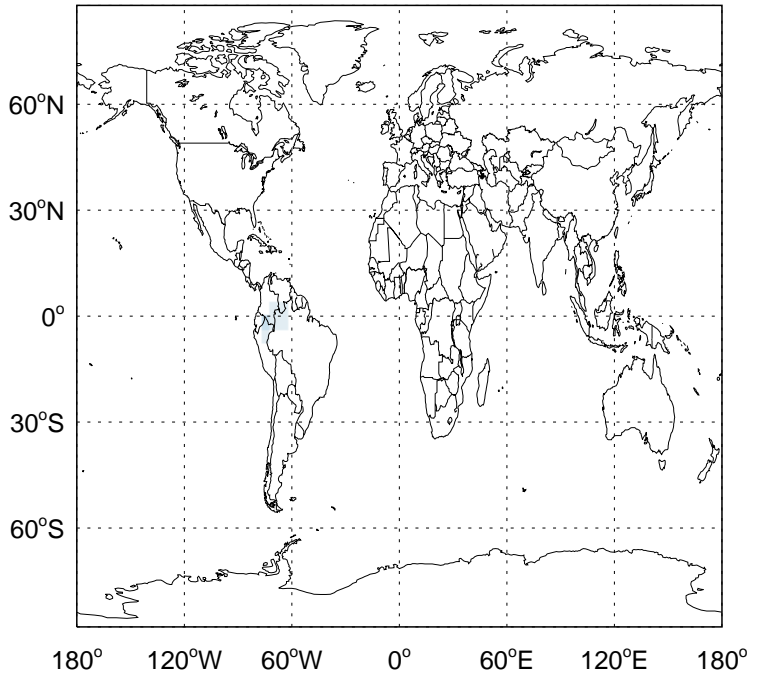
GC\_12.0.0 - v11-02f-Run1  
MTPA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MTPA - Diff @ Surface for Apr

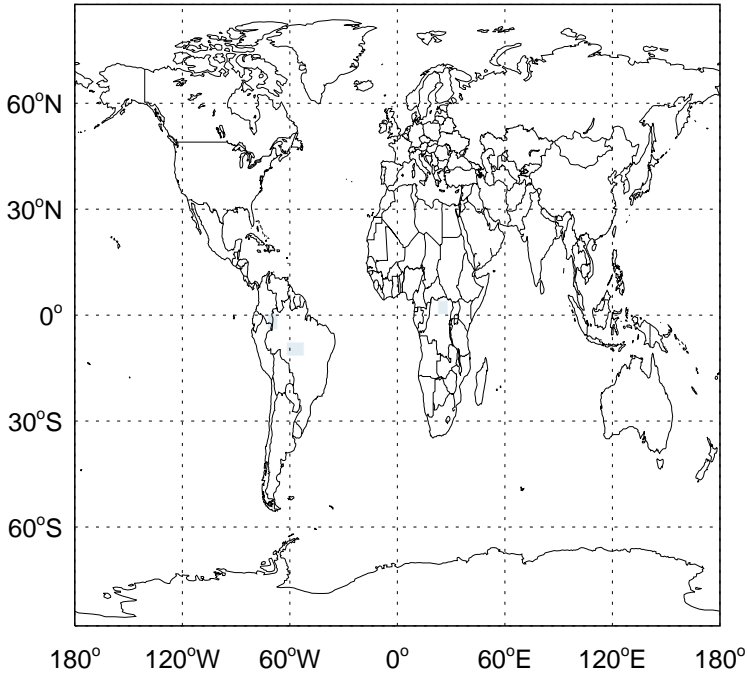


GC\_12.0.0 - v11-02e-Run1  
MTPA- Diff @ 500 hPa for Apr

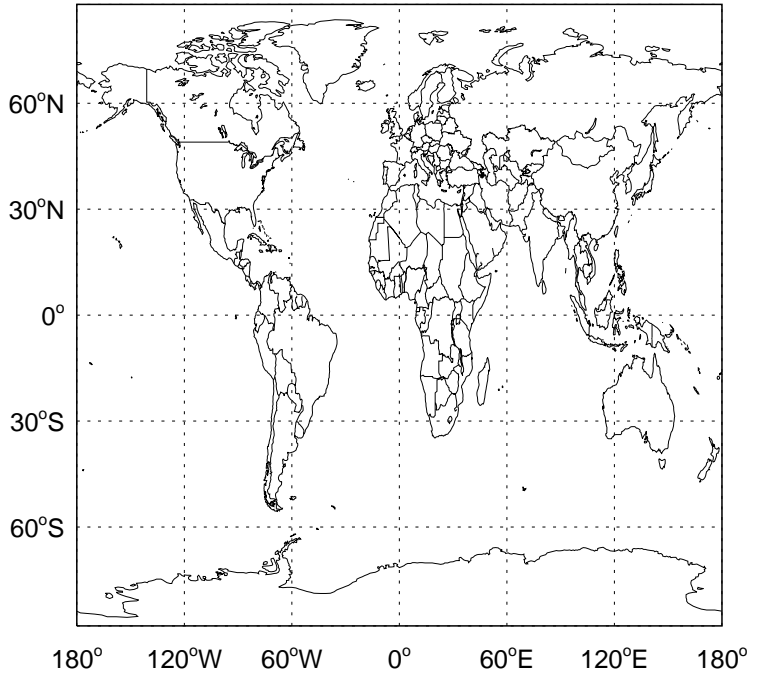


# GEOS-Chem Difference Maps at surface and 500 hPa

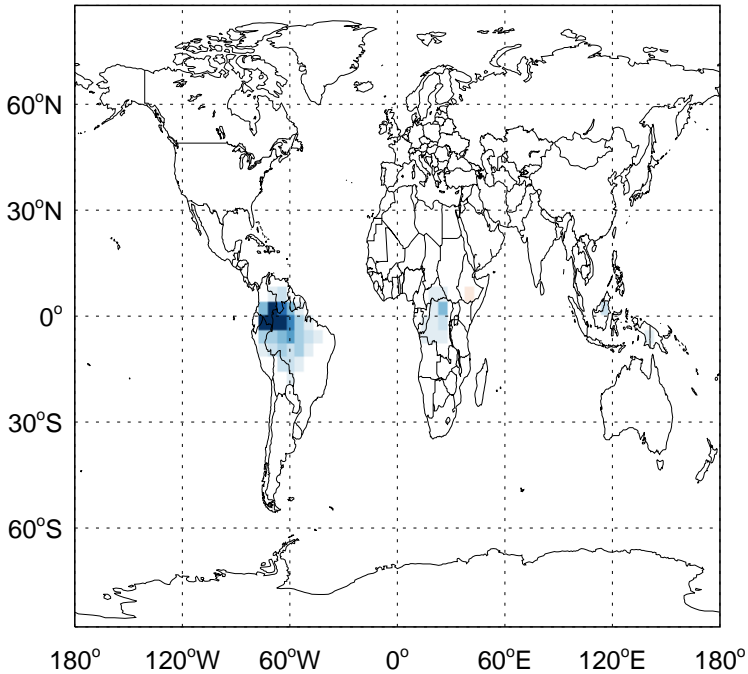
GC\_12.0.0 - v11-02f-Run1  
LIMO - Diff @ Surface for Apr



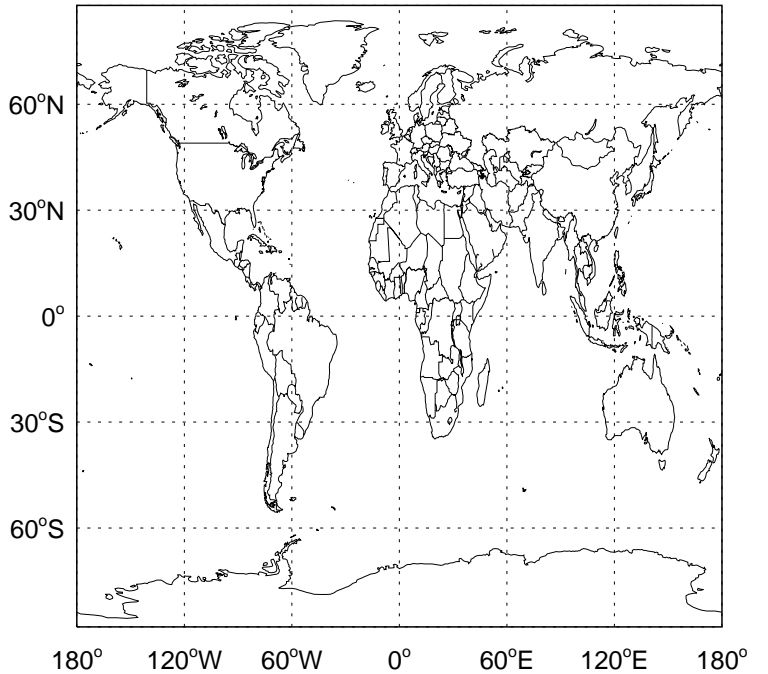
GC\_12.0.0 - v11-02f-Run1  
LIMO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
LIMO - Diff @ Surface for Apr

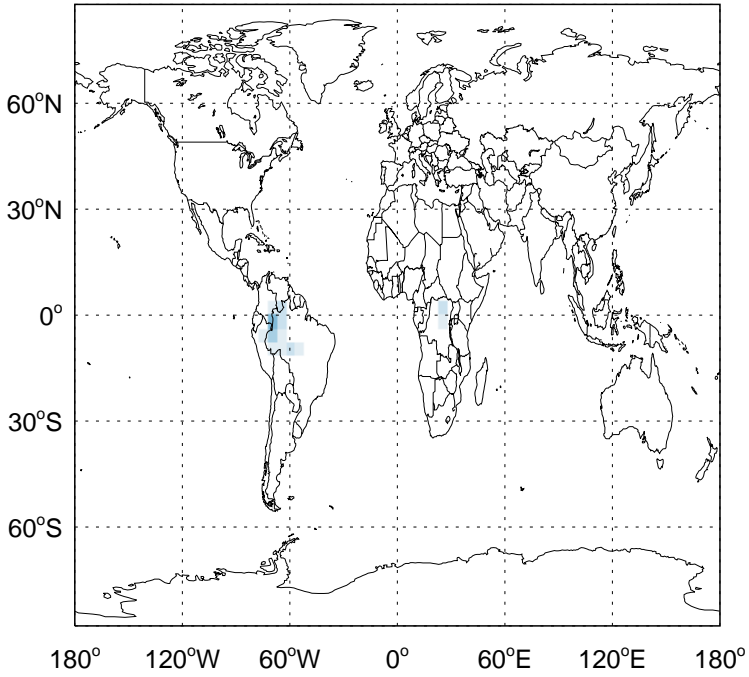


GC\_12.0.0 - v11-02e-Run1  
LIMO- Diff @ 500 hPa for Apr

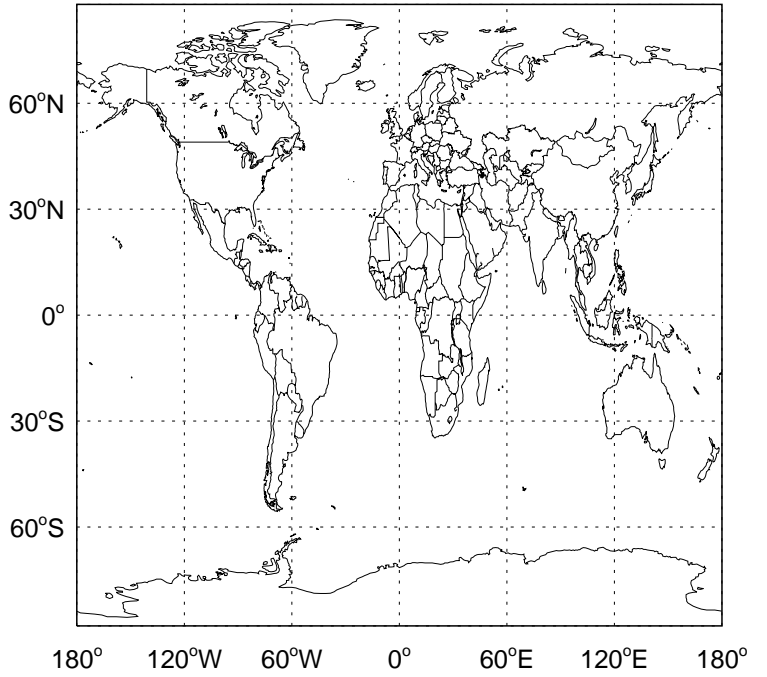


# GEOS-Chem Difference Maps at surface and 500 hPa

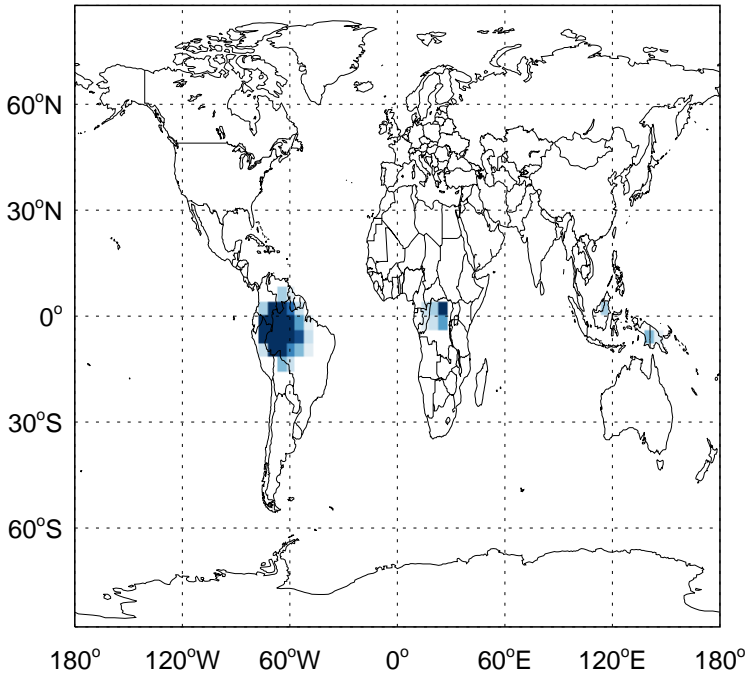
GC\_12.0.0 - v11-02f-Run1  
MTPO - Diff @ Surface for Apr



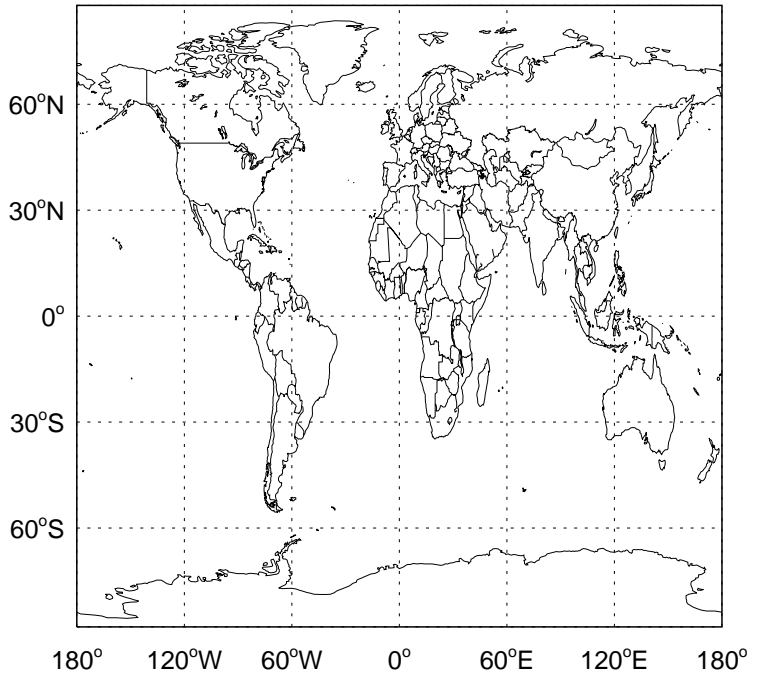
GC\_12.0.0 - v11-02f-Run1  
MTPO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MTPO - Diff @ Surface for Apr



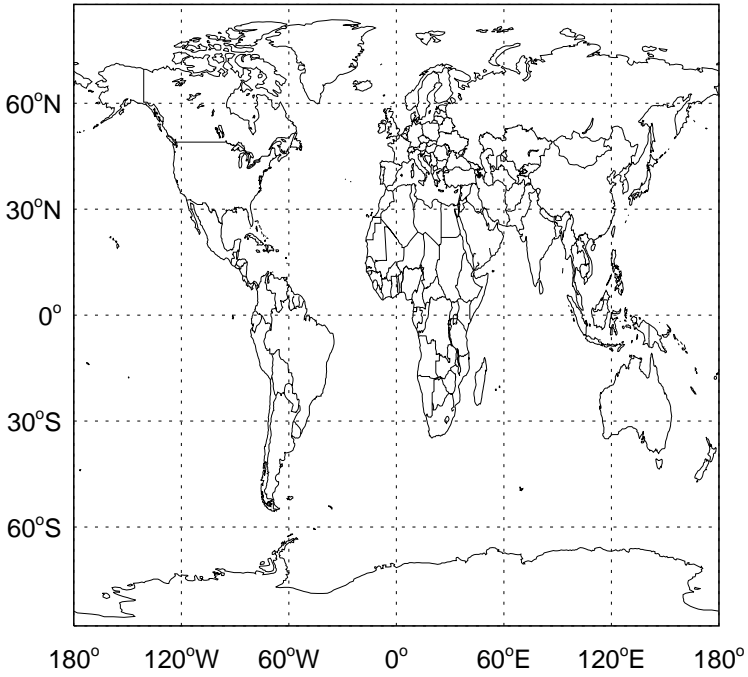
GC\_12.0.0 - v11-02e-Run1  
MTPO- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

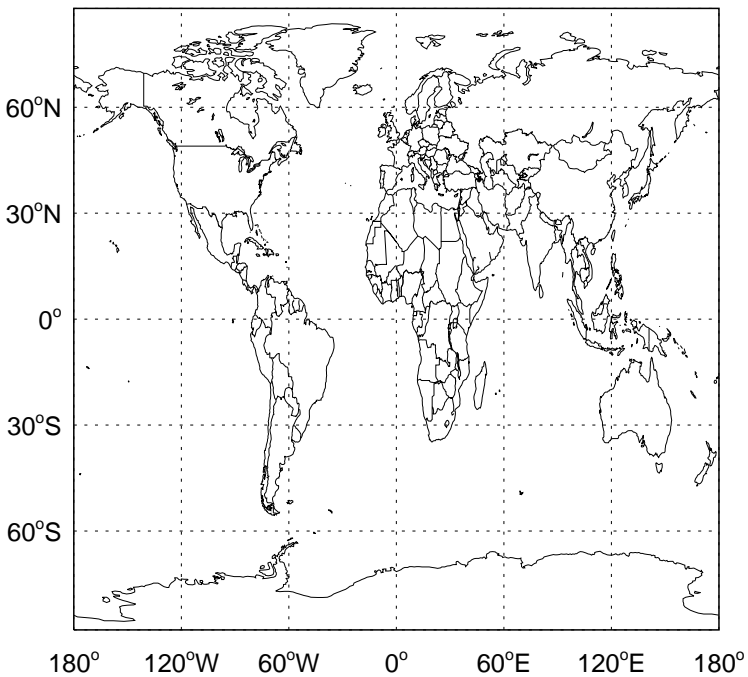
GC\_12.0.0 - v11-02f-Run1  
TSOG1 - Diff @ Surface for Apr



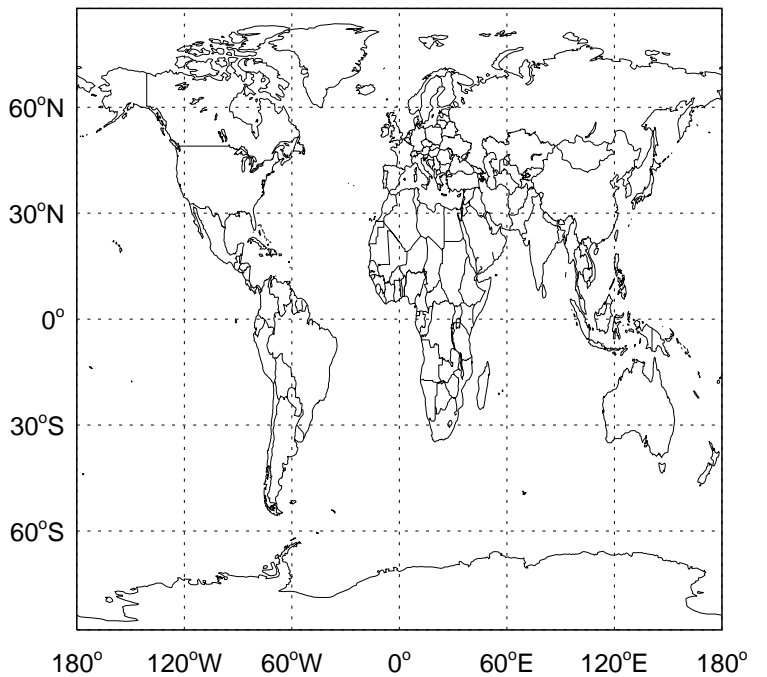
GC\_12.0.0 - v11-02f-Run1  
TSOG1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOG1 - Diff @ Surface for Apr

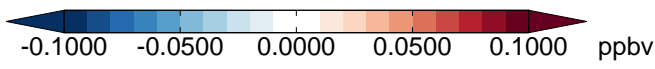
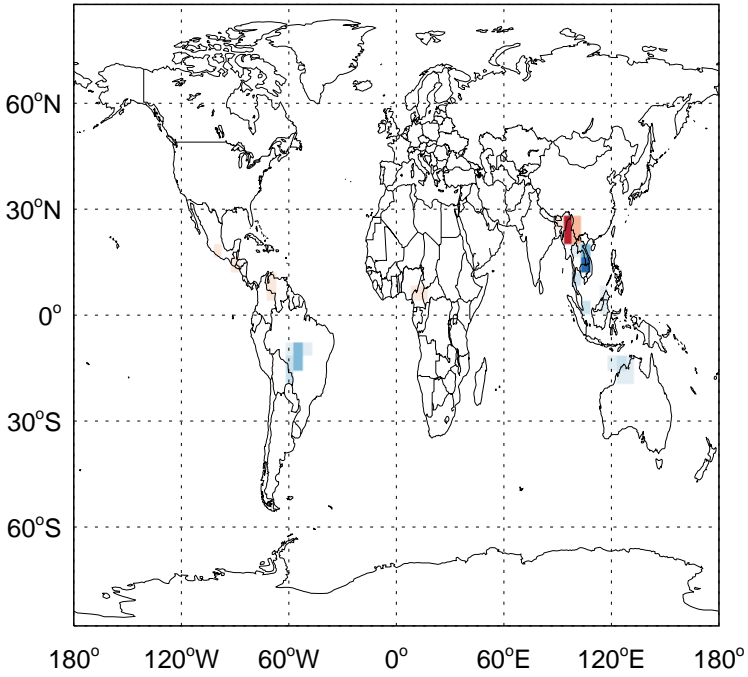


GC\_12.0.0 - v11-02e-Run1  
TSOG1- Diff @ 500 hPa for Apr

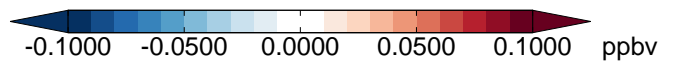
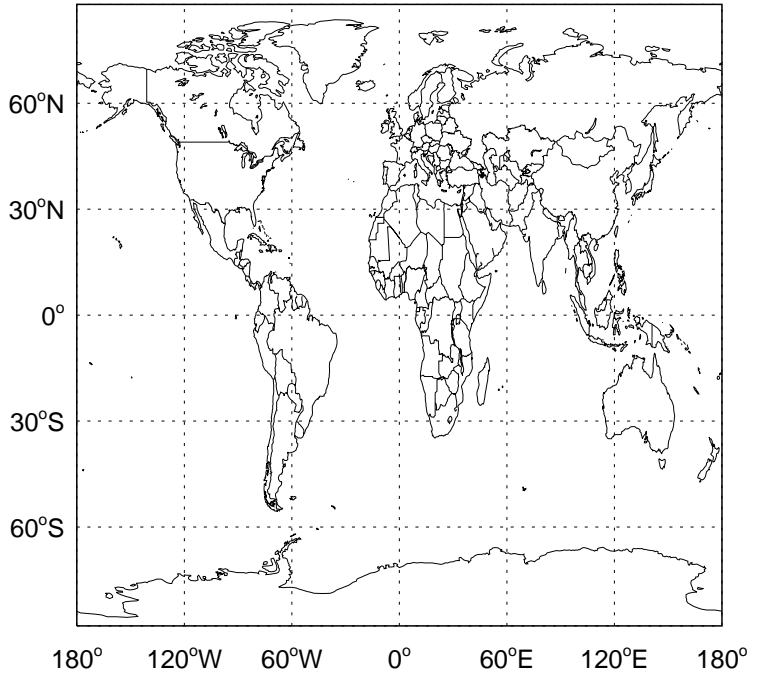


# GEOS-Chem Difference Maps at surface and 500 hPa

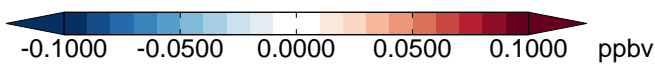
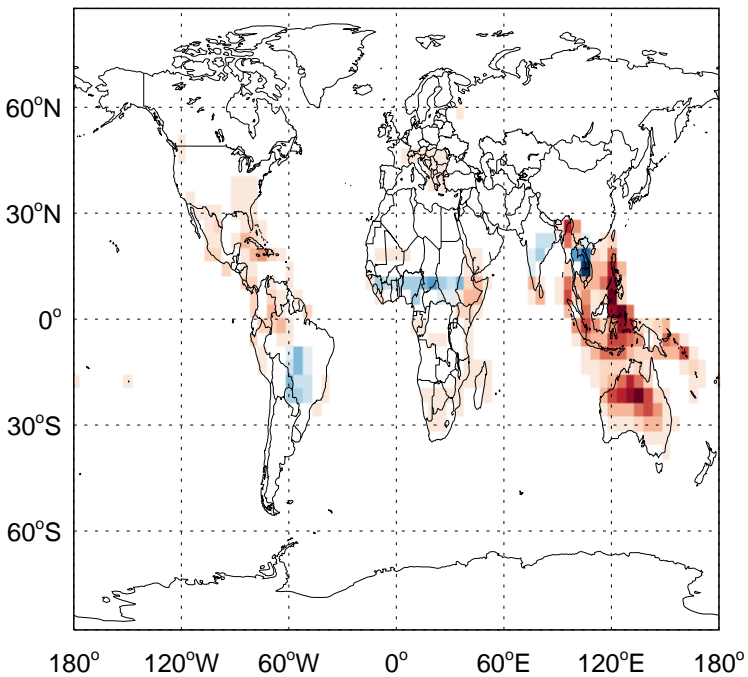
GC\_12.0.0 - v11-02f-Run1  
TSOG2 - Diff @ Surface for Apr



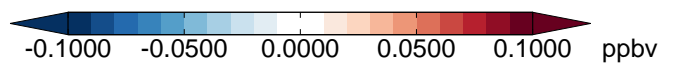
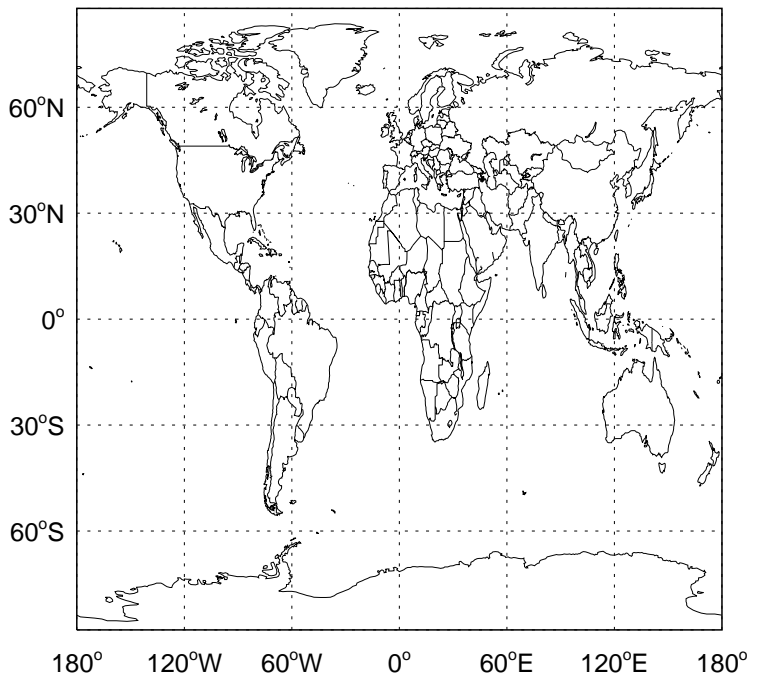
GC\_12.0.0 - v11-02f-Run1  
TSOG2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOG2 - Diff @ Surface for Apr

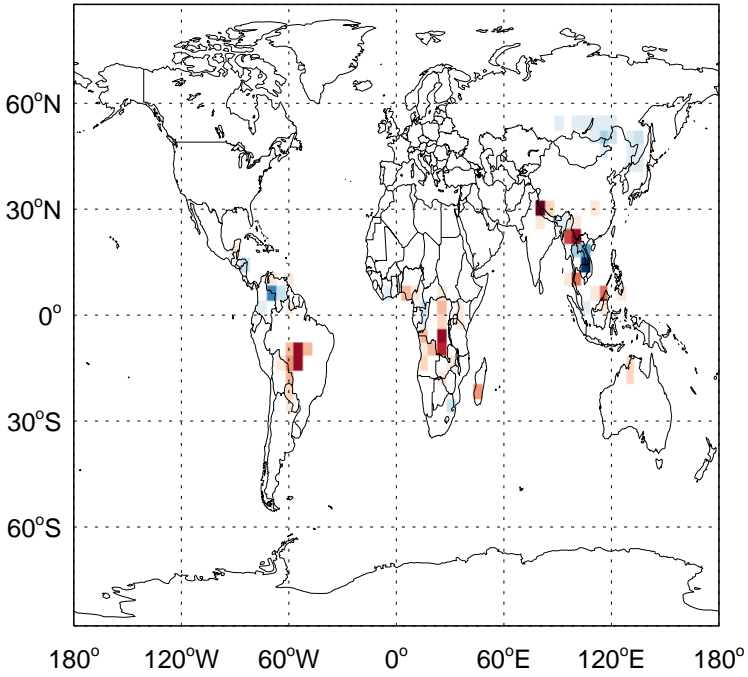


GC\_12.0.0 - v11-02e-Run1  
TSOG2- Diff @ 500 hPa for Apr

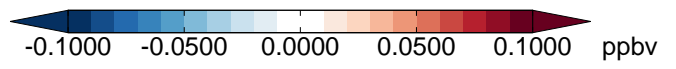
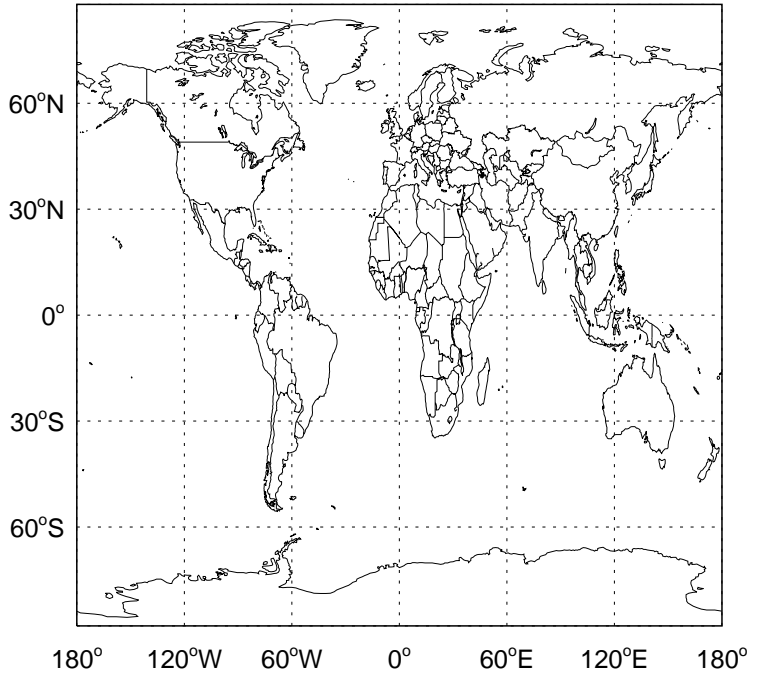


# GEOS-Chem Difference Maps at surface and 500 hPa

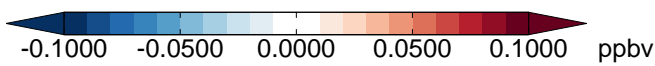
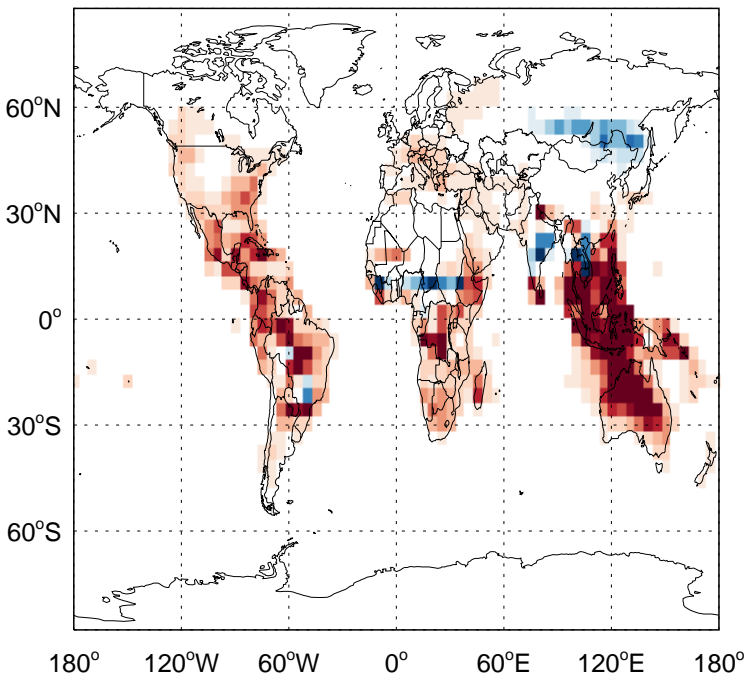
GC\_12.0.0 - v11-02f-Run1  
TSOG3 - Diff @ Surface for Apr



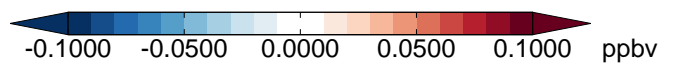
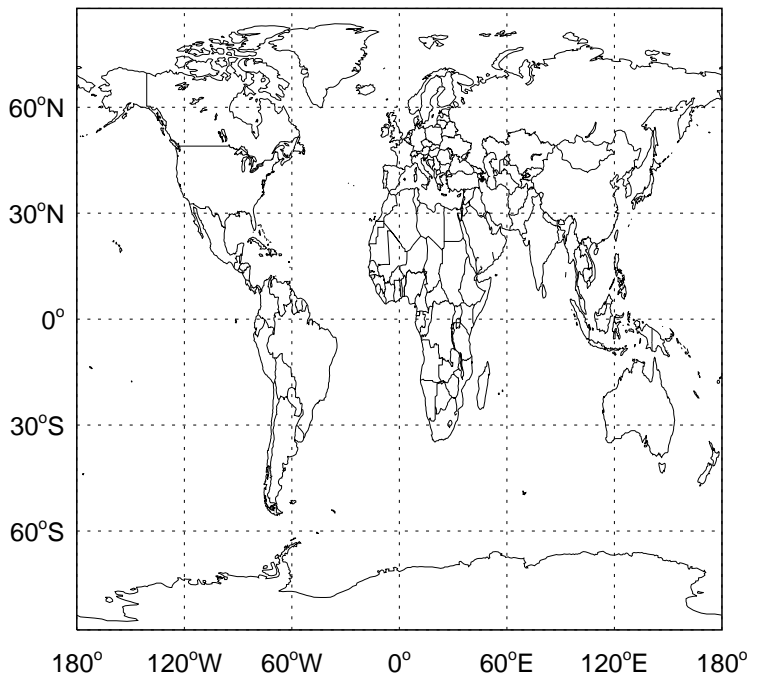
GC\_12.0.0 - v11-02f-Run1  
TSOG3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOG3 - Diff @ Surface for Apr

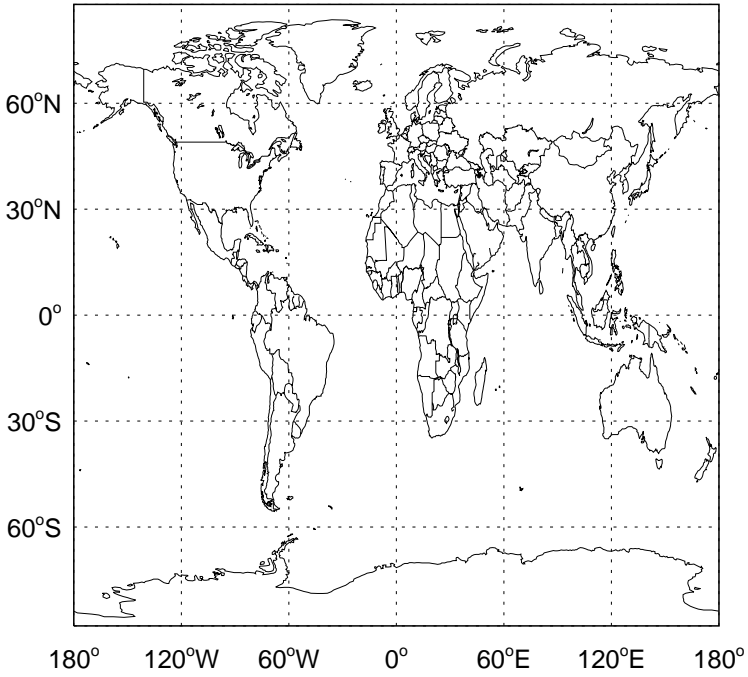


GC\_12.0.0 - v11-02e-Run1  
TSOG3- Diff @ 500 hPa for Apr

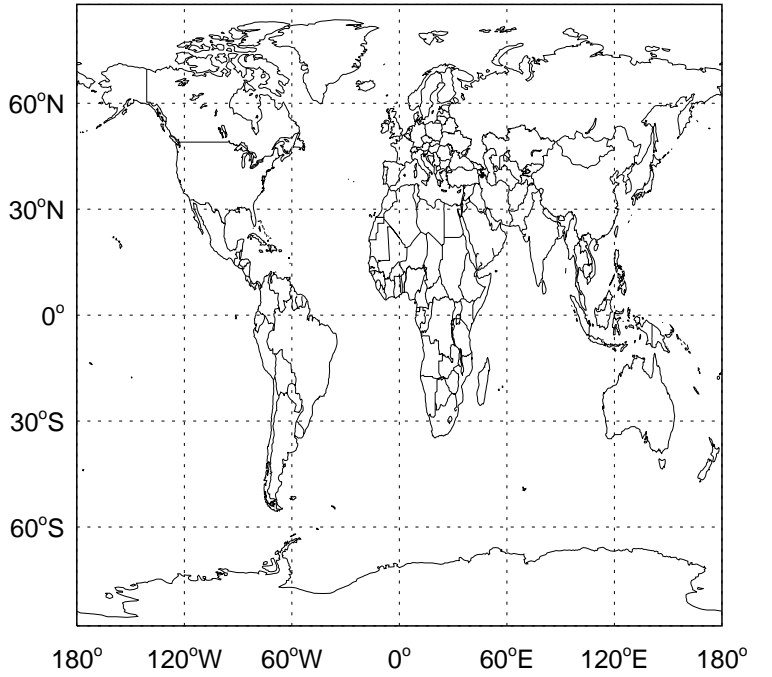


# GEOS-Chem Difference Maps at surface and 500 hPa

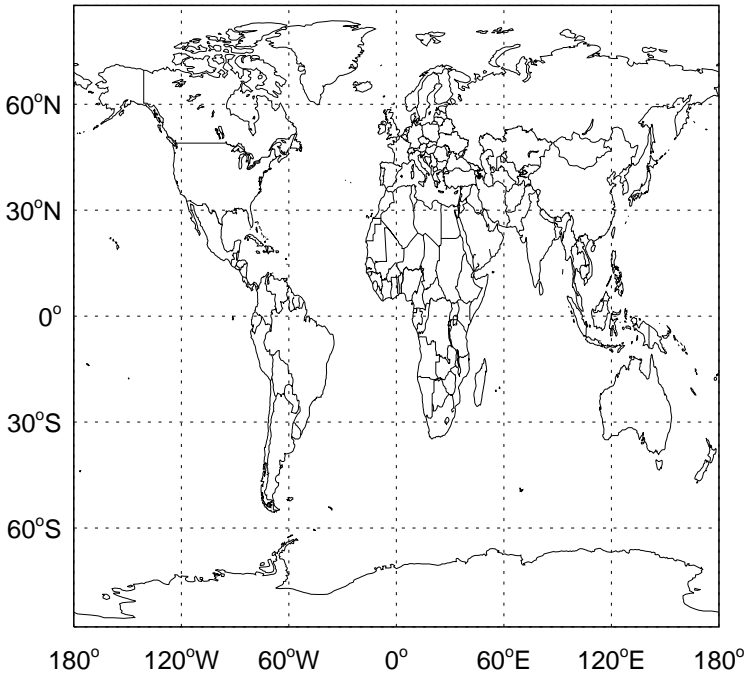
GC\_12.0.0 - v11-02f-Run1  
TSOG0 - Diff @ Surface for Apr



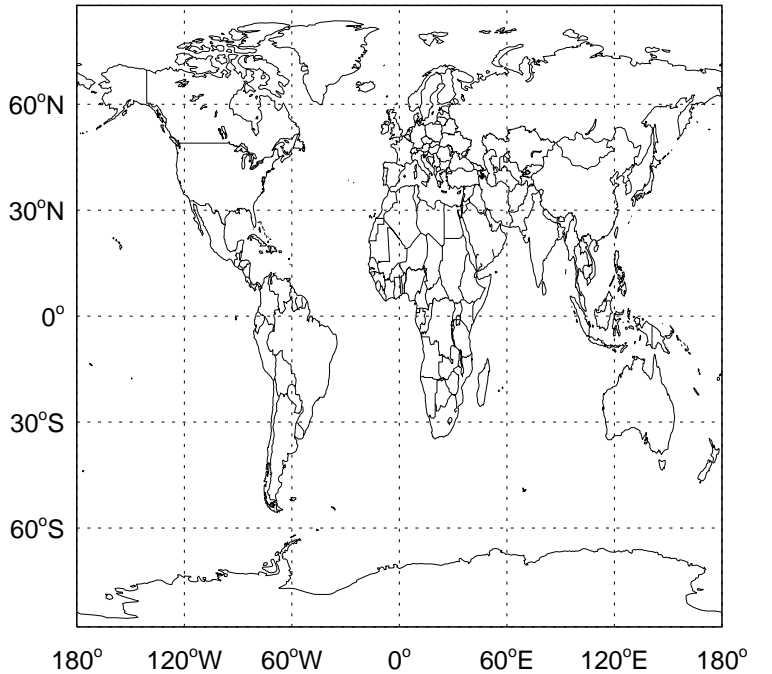
GC\_12.0.0 - v11-02f-Run1  
TSOG0- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOG0 - Diff @ Surface for Apr

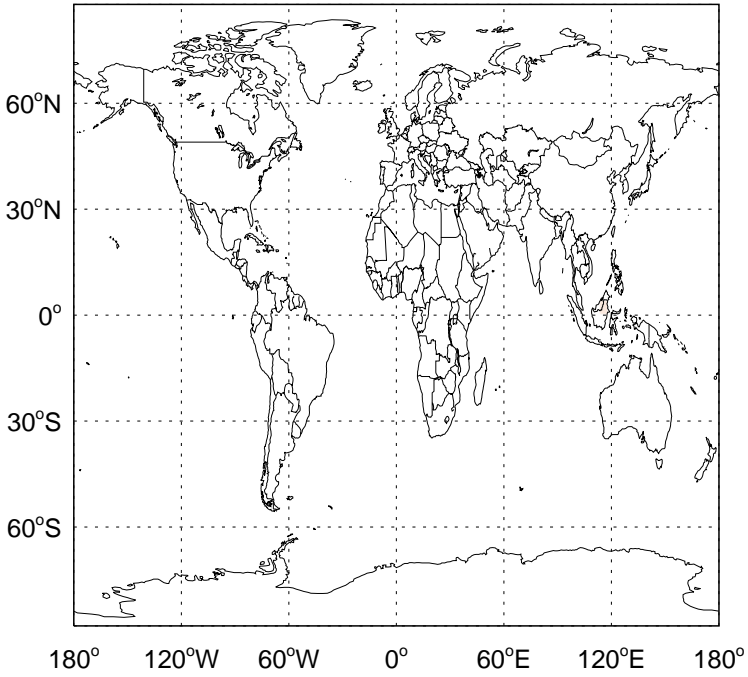


GC\_12.0.0 - v11-02e-Run1  
TSOG0- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

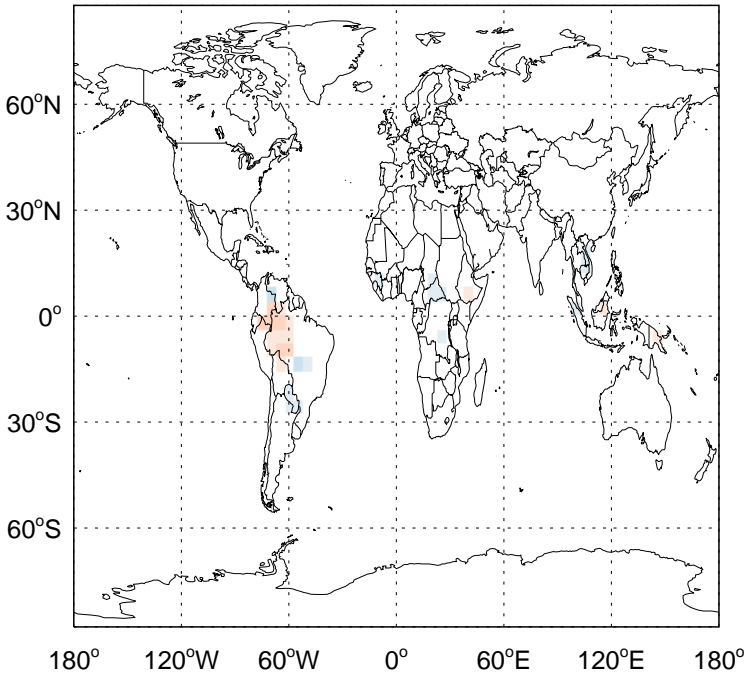
GC\_12.0.0 - v11-02f-Run1  
TSOA1 - Diff @ Surface for Apr



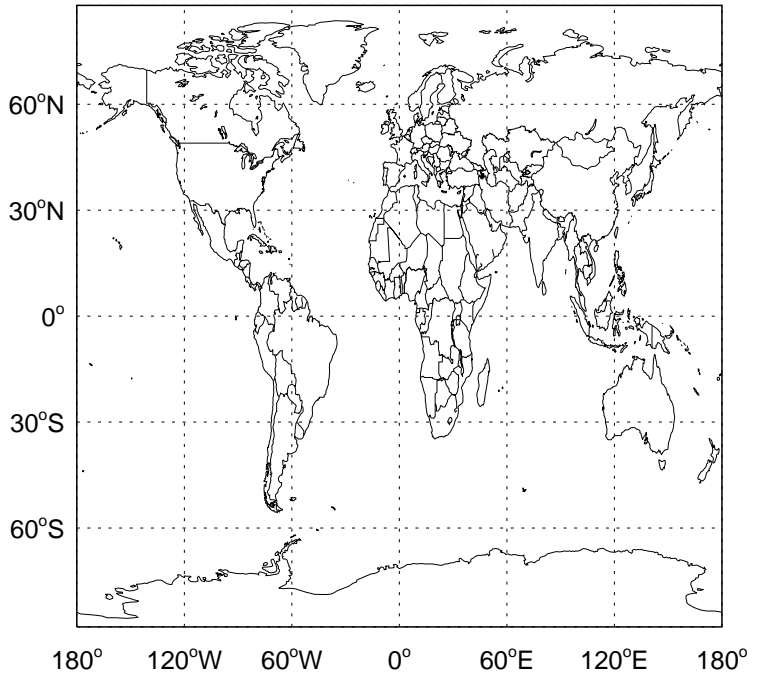
GC\_12.0.0 - v11-02f-Run1  
TSOA1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOA1 - Diff @ Surface for Apr

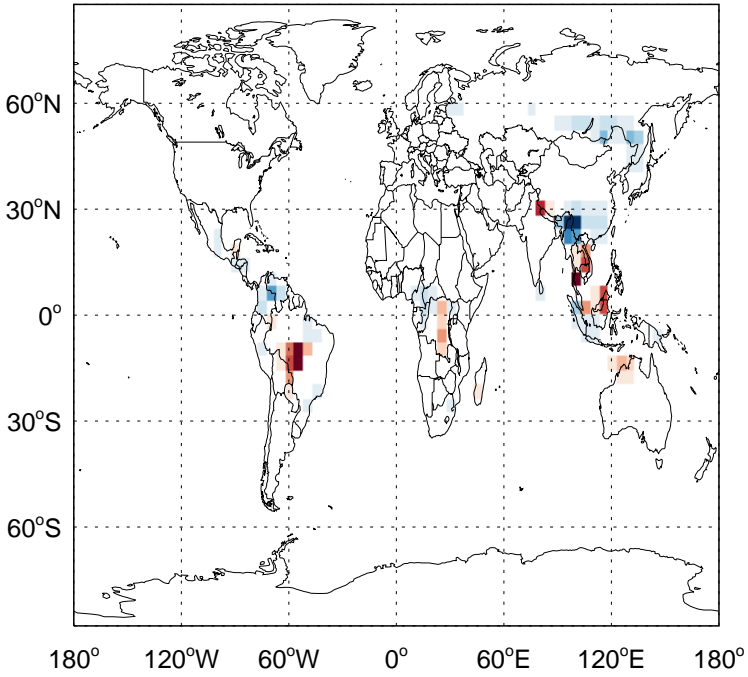


GC\_12.0.0 - v11-02e-Run1  
TSOA1- Diff @ 500 hPa for Apr

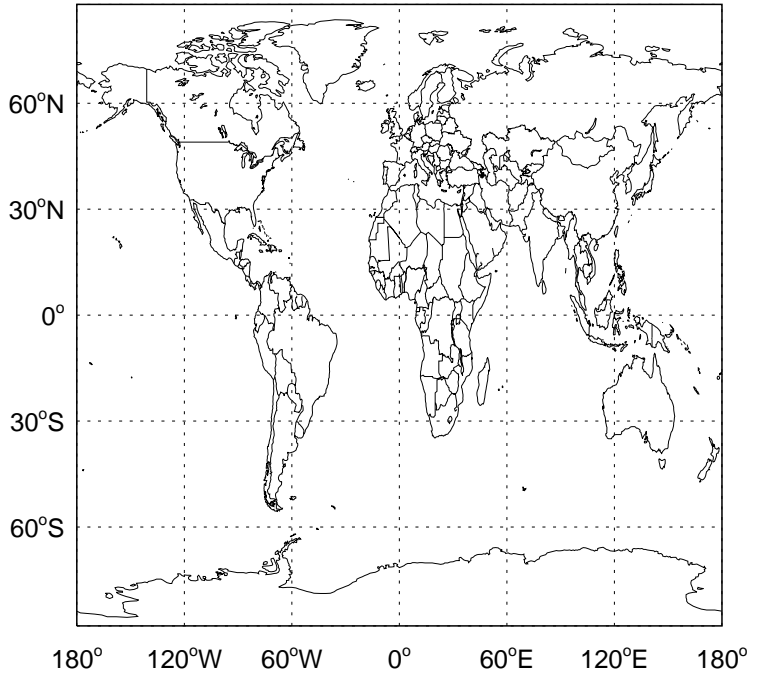


# GEOS-Chem Difference Maps at surface and 500 hPa

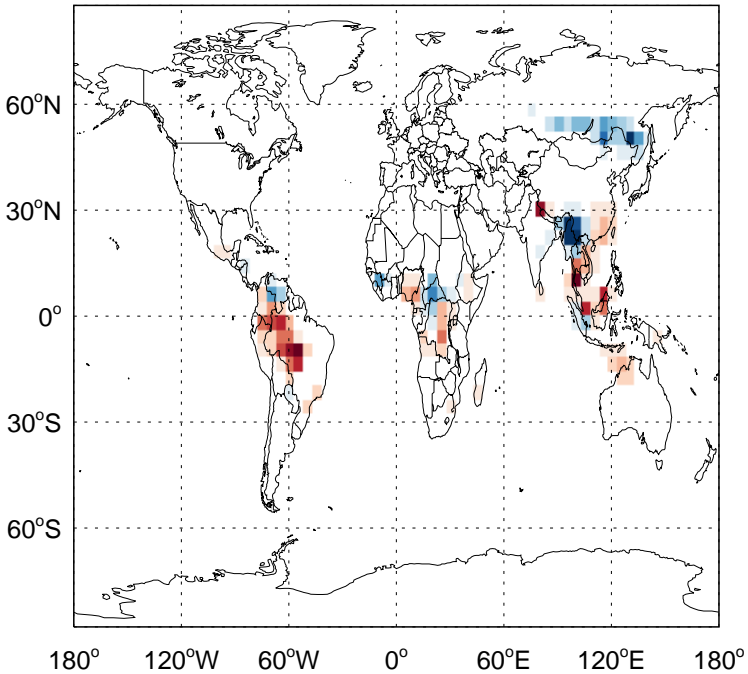
GC\_12.0.0 - v11-02f-Run1  
TSOA2 - Diff @ Surface for Apr



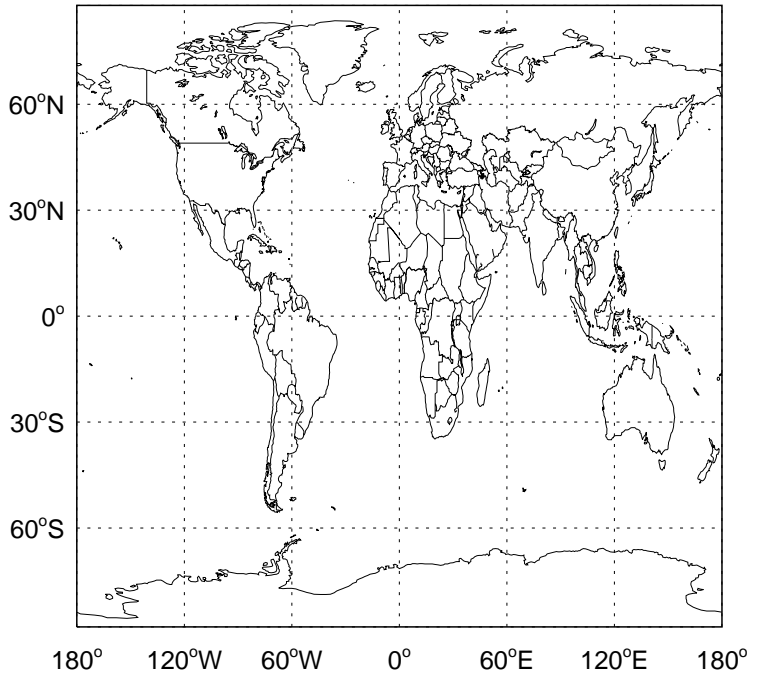
GC\_12.0.0 - v11-02f-Run1  
TSOA2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOA2 - Diff @ Surface for Apr

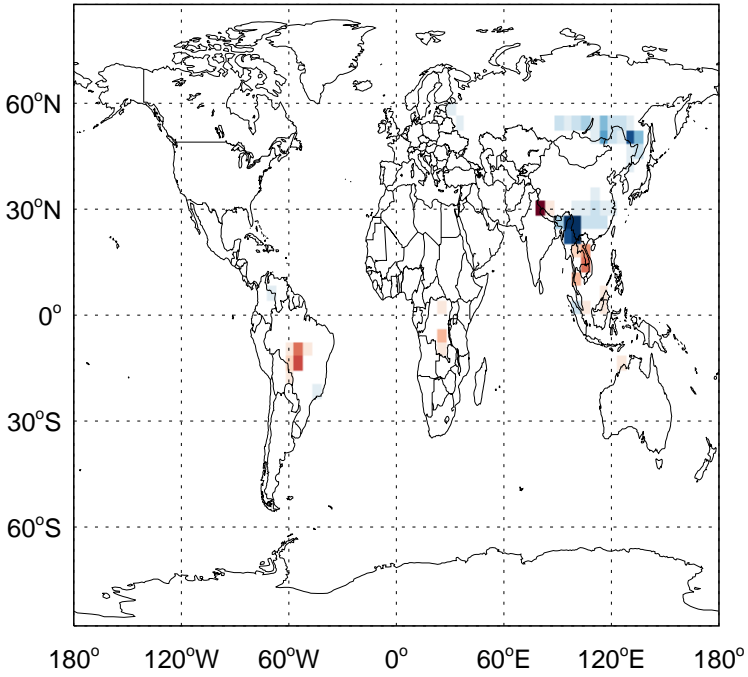


GC\_12.0.0 - v11-02e-Run1  
TSOA2- Diff @ 500 hPa for Apr

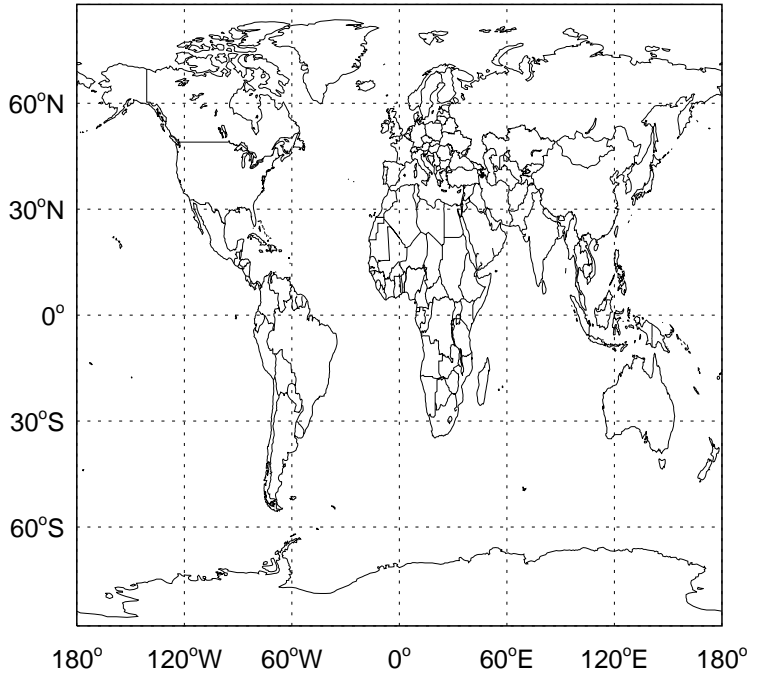


# GEOS-Chem Difference Maps at surface and 500 hPa

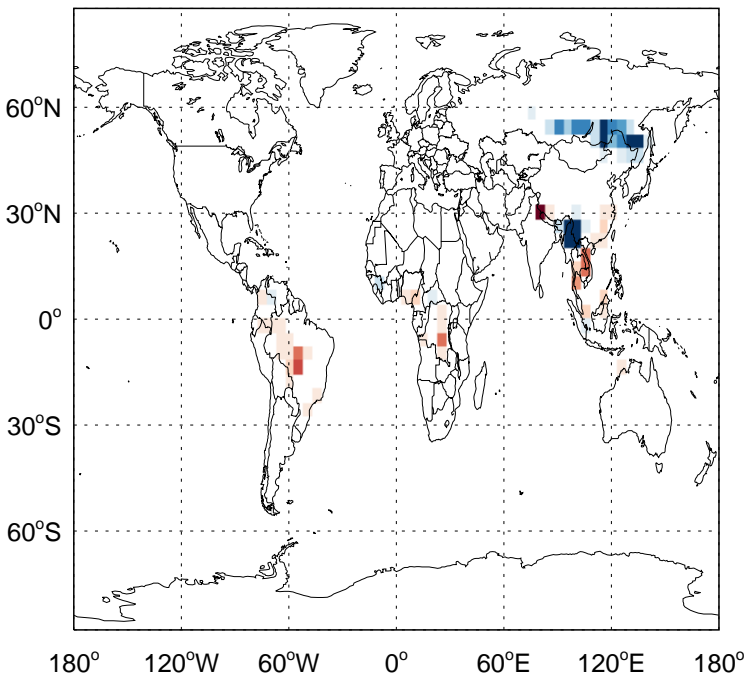
GC\_12.0.0 - v11-02f-Run1  
TSOA3 - Diff @ Surface for Apr



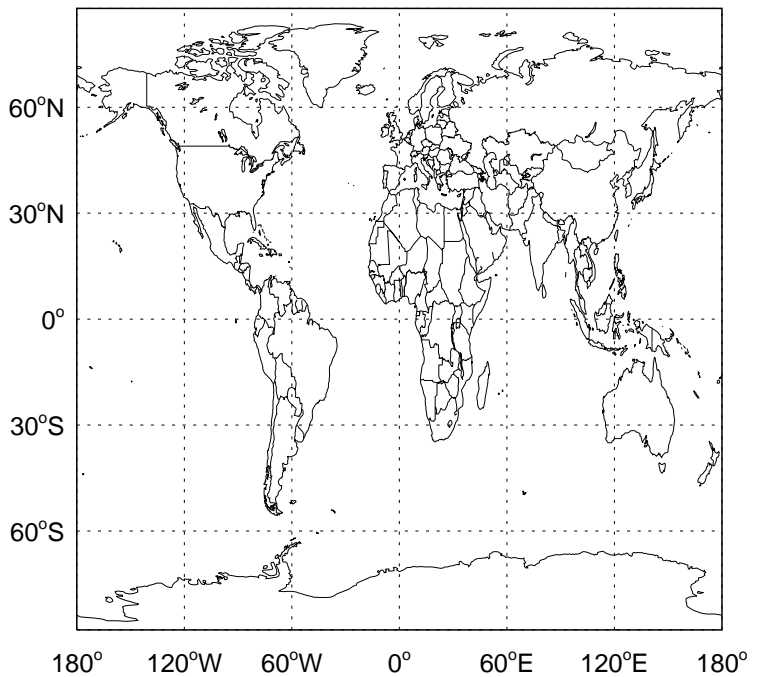
GC\_12.0.0 - v11-02f-Run1  
TSOA3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOA3 - Diff @ Surface for Apr

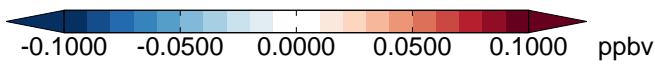
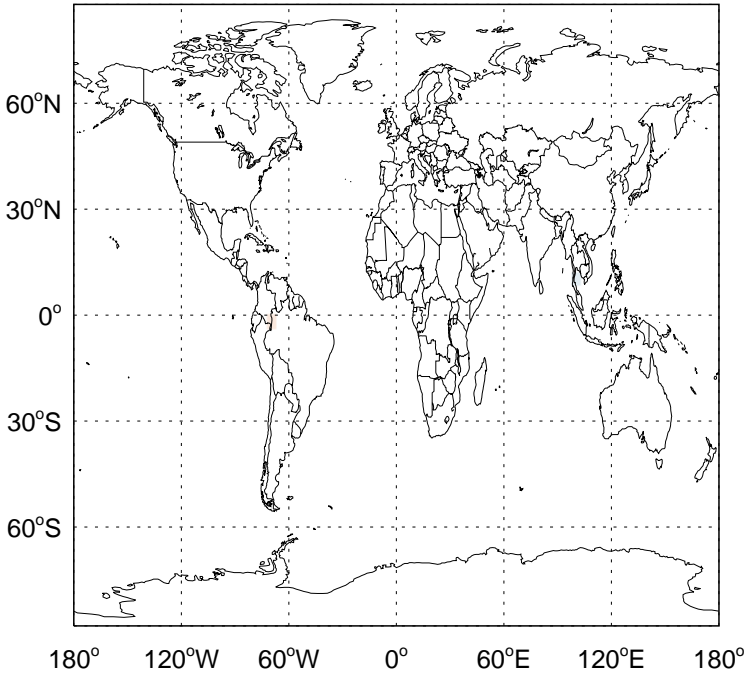


GC\_12.0.0 - v11-02e-Run1  
TSOA3- Diff @ 500 hPa for Apr

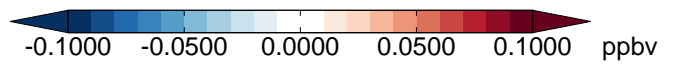


# GEOS-Chem Difference Maps at surface and 500 hPa

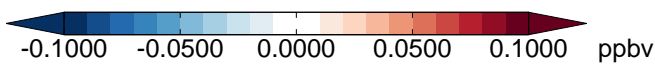
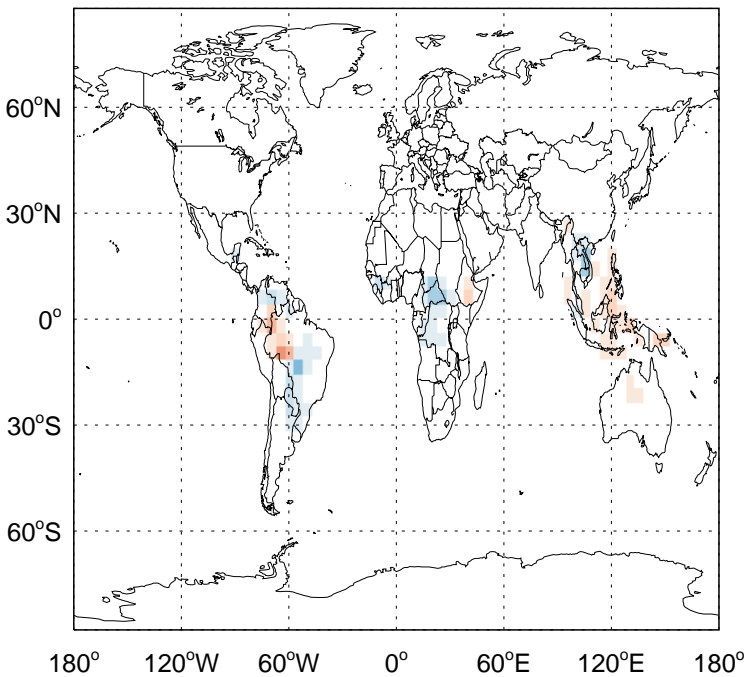
GC\_12.0.0 - v11-02f-Run1  
TSOA0 - Diff @ Surface for Apr



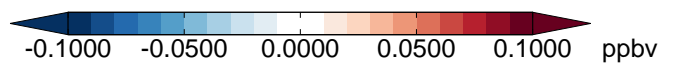
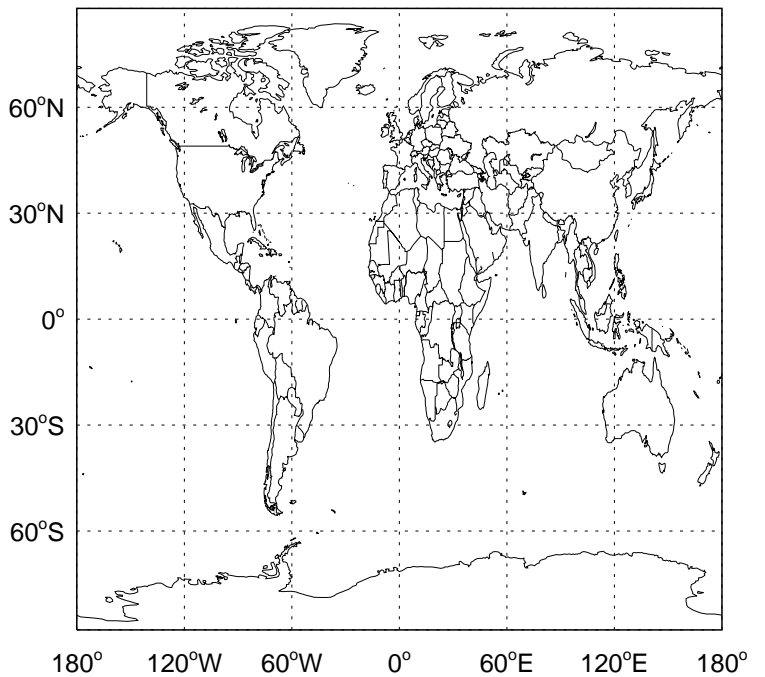
GC\_12.0.0 - v11-02f-Run1  
TSOA0- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
TSOA0 - Diff @ Surface for Apr



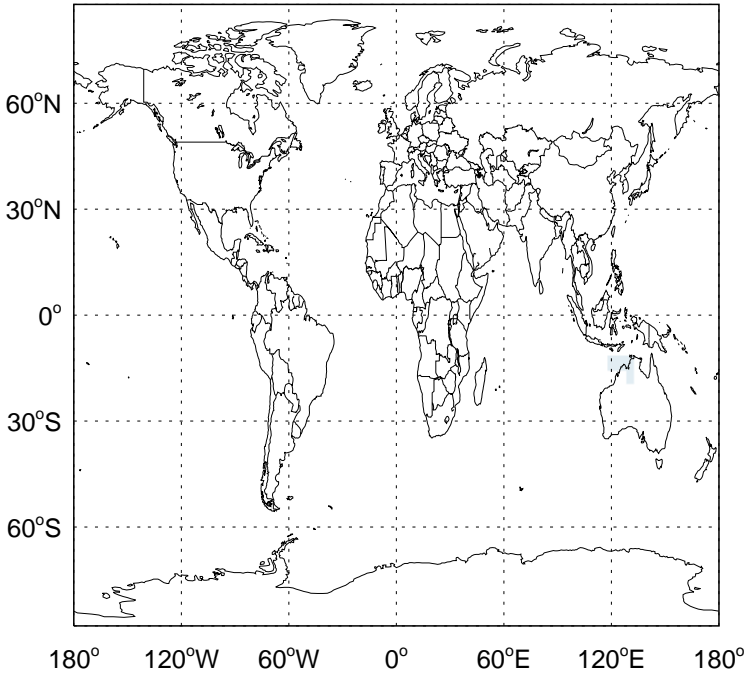
GC\_12.0.0 - v11-02e-Run1  
TSOA0- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

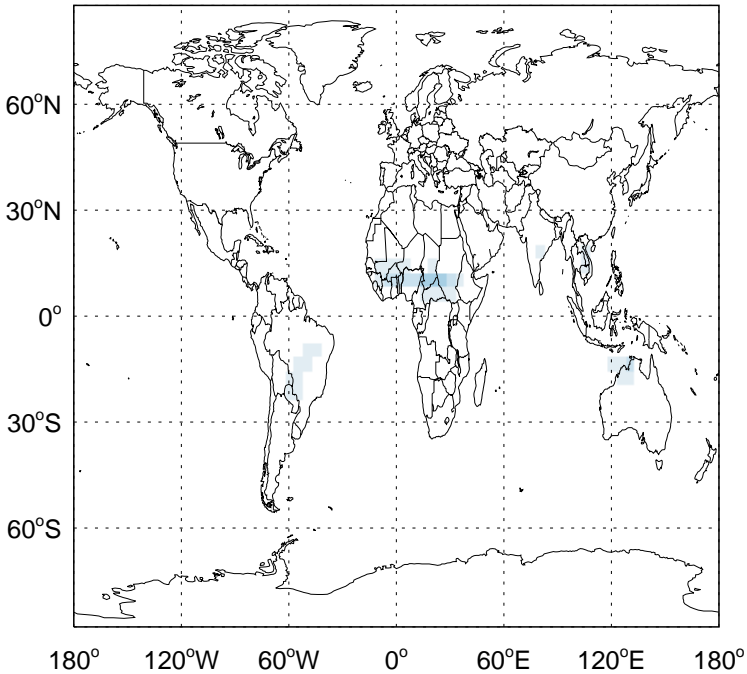
GC\_12.0.0 - v11-02f-Run1  
ISOG1 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ISOG1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOG1 - Diff @ Surface for Apr

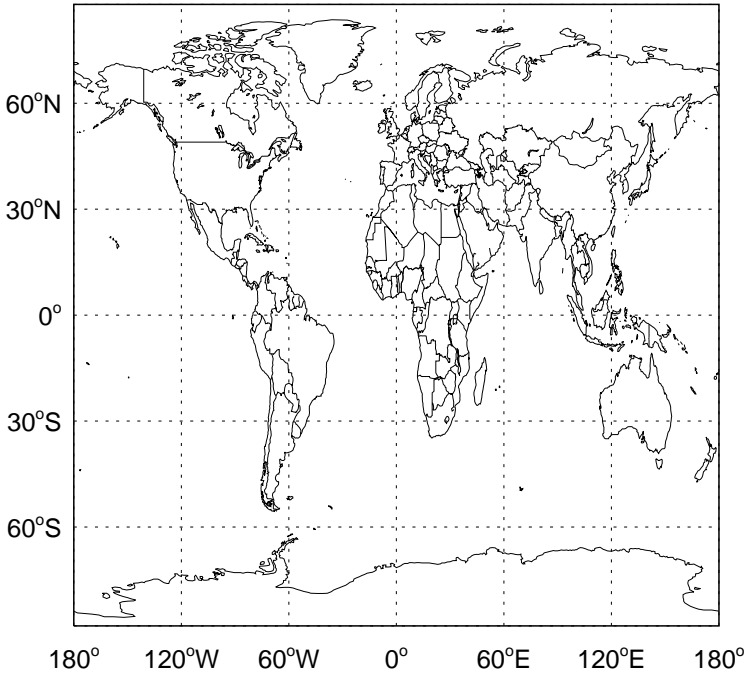


GC\_12.0.0 - v11-02e-Run1  
ISOG1- Diff @ 500 hPa for Apr

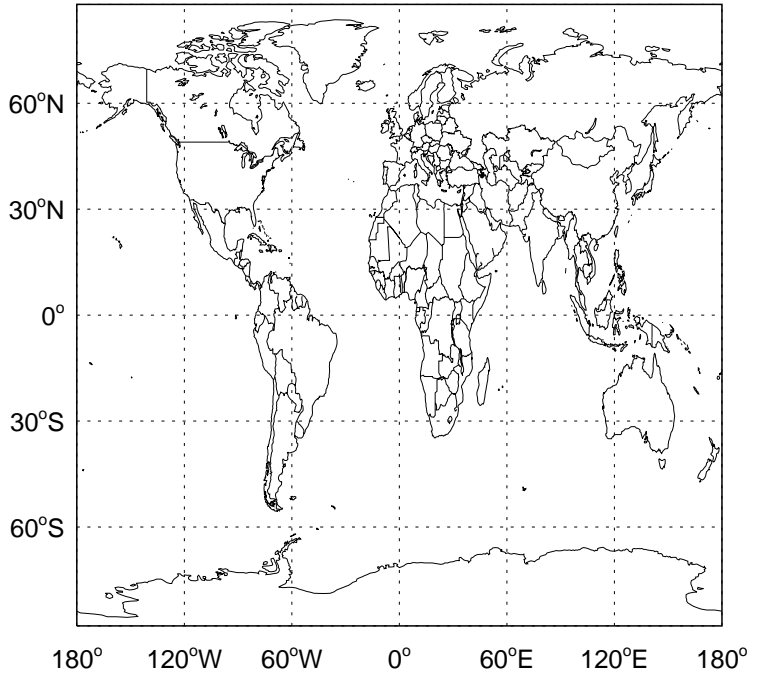


# GEOS-Chem Difference Maps at surface and 500 hPa

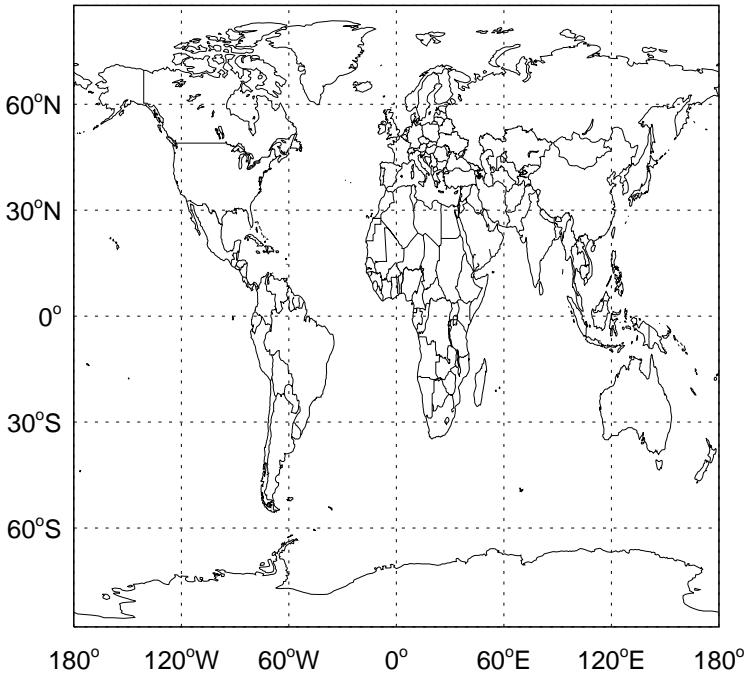
GC\_12.0.0 - v11-02f-Run1  
ISOG2 - Diff @ Surface for Apr



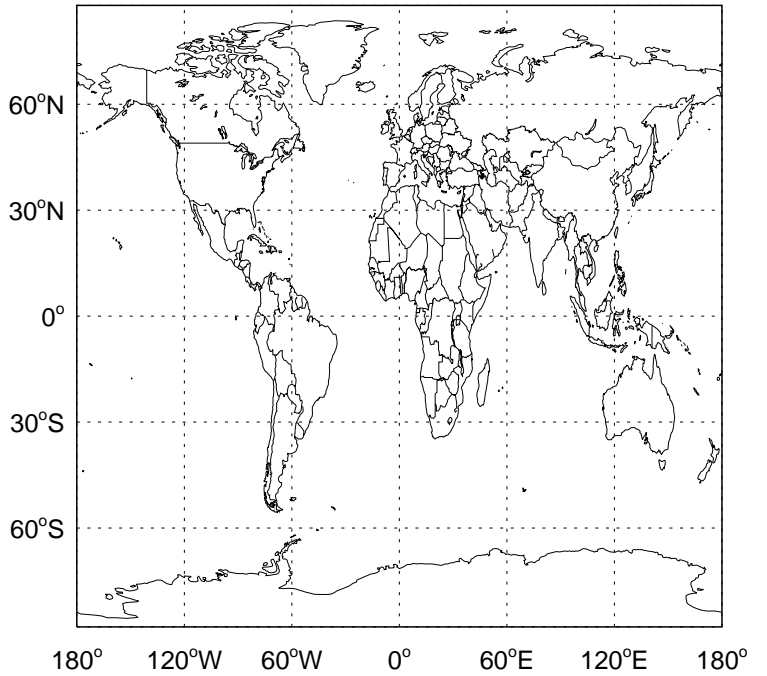
GC\_12.0.0 - v11-02f-Run1  
ISOG2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOG2 - Diff @ Surface for Apr

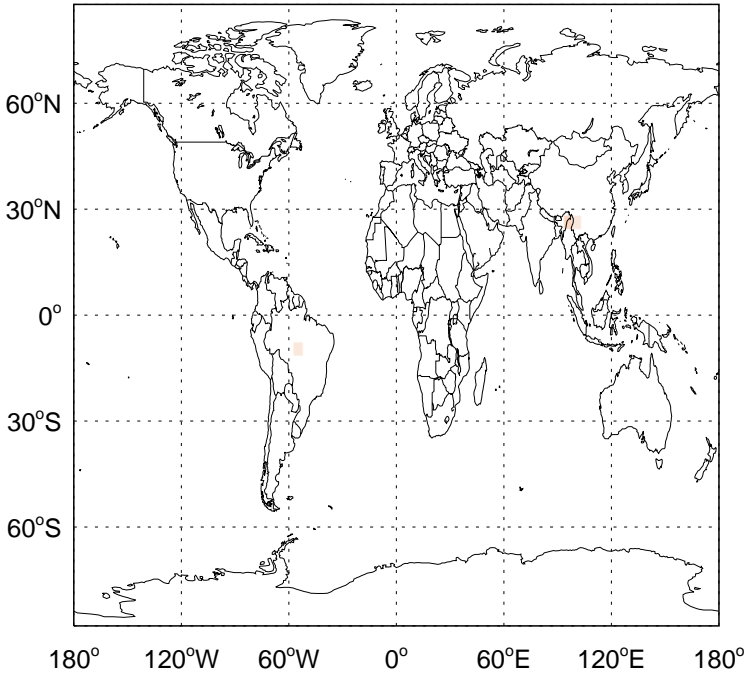


GC\_12.0.0 - v11-02e-Run1  
ISOG2- Diff @ 500 hPa for Apr

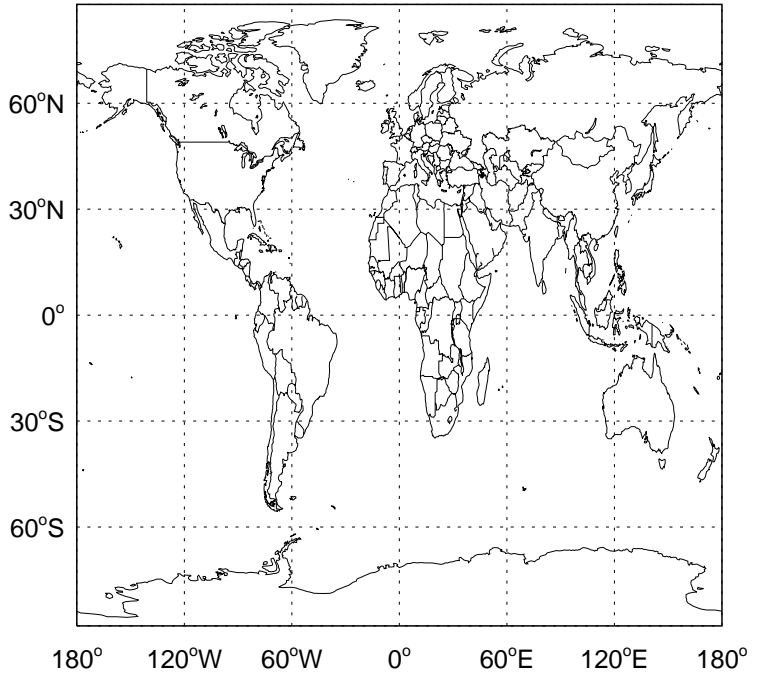


# GEOS-Chem Difference Maps at surface and 500 hPa

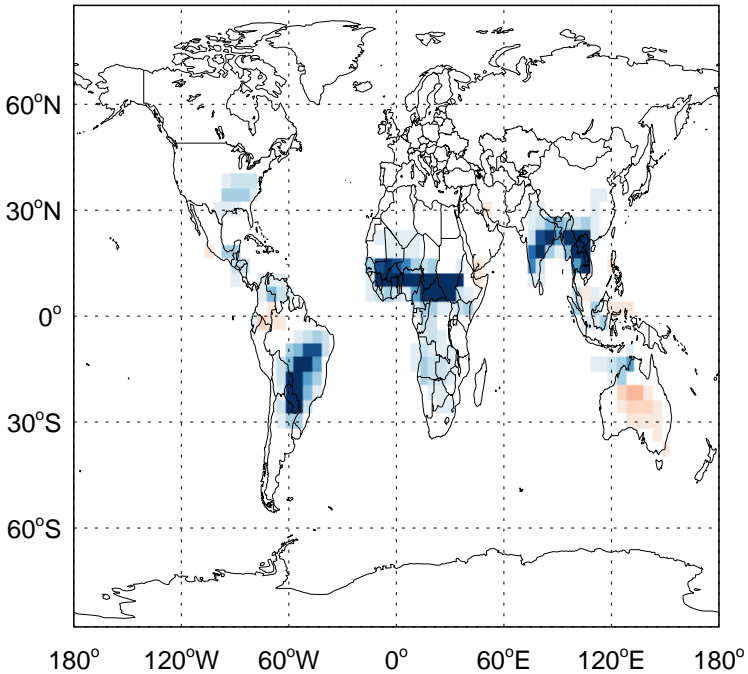
GC\_12.0.0 - v11-02f-Run1  
ISOG3 - Diff @ Surface for Apr



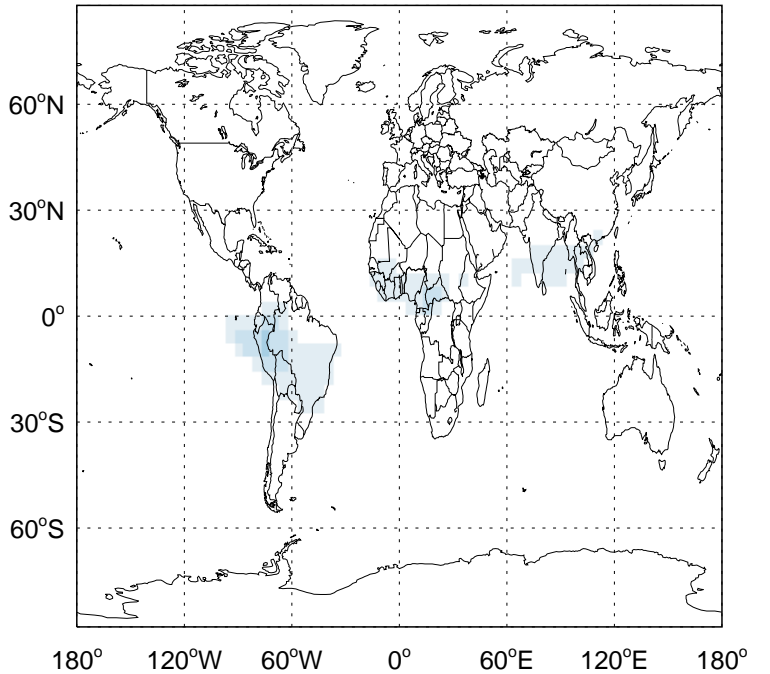
GC\_12.0.0 - v11-02f-Run1  
ISOG3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOG3 - Diff @ Surface for Apr

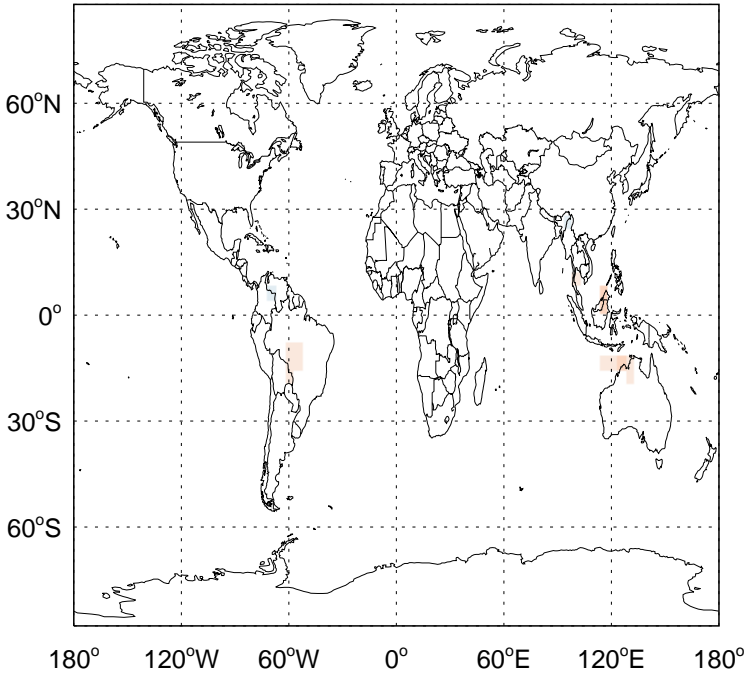


GC\_12.0.0 - v11-02e-Run1  
ISOG3- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

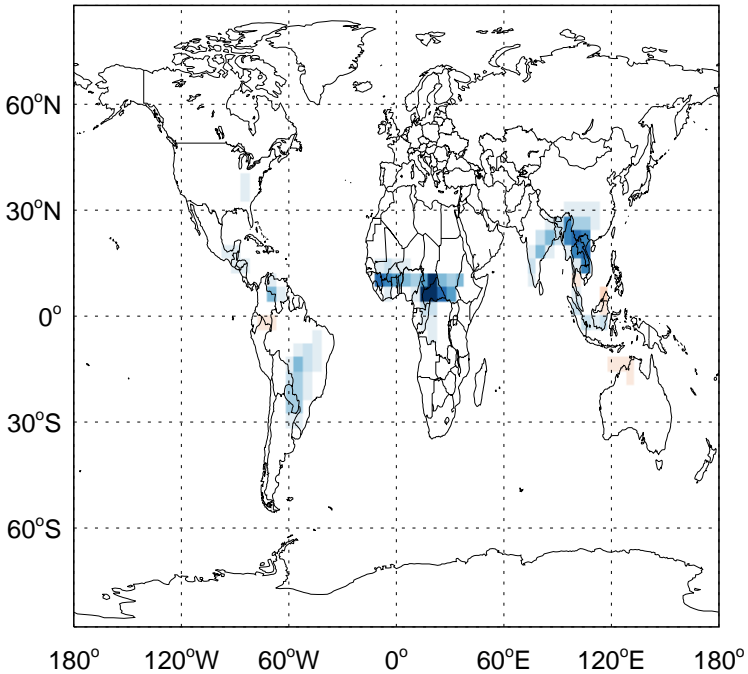
GC\_12.0.0 - v11-02f-Run1  
ISOA1 - Diff @ Surface for Apr



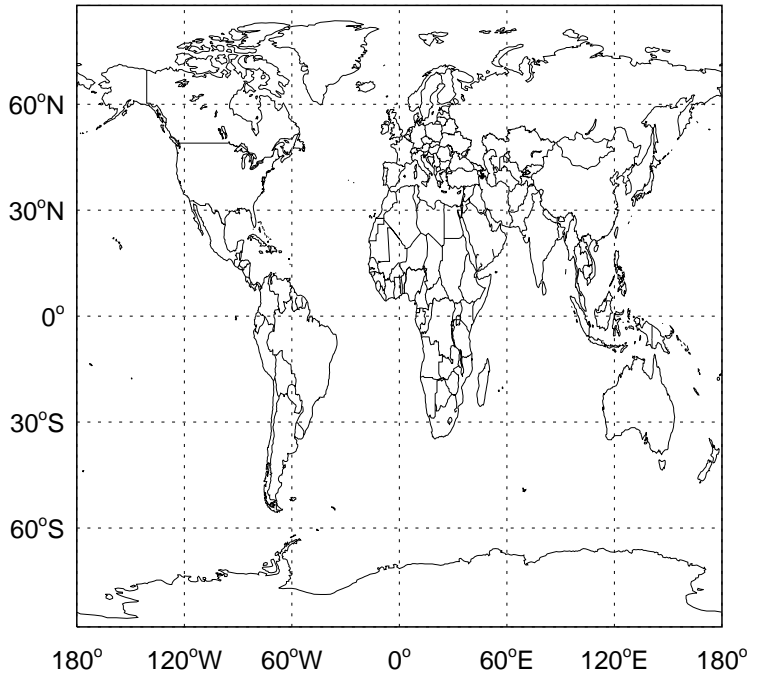
GC\_12.0.0 - v11-02f-Run1  
ISOA1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOA1 - Diff @ Surface for Apr

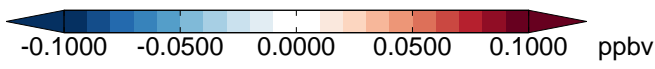


GC\_12.0.0 - v11-02e-Run1  
ISOA1- Diff @ 500 hPa for Apr

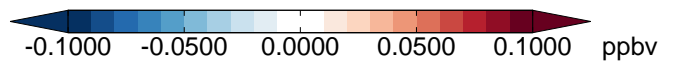


# GEOS-Chem Difference Maps at surface and 500 hPa

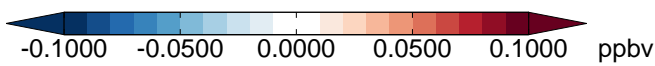
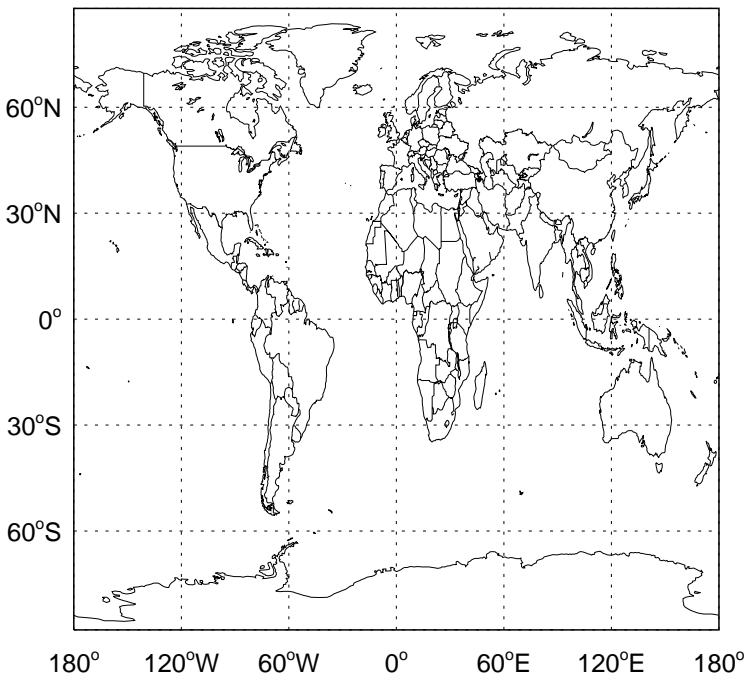
GC\_12.0.0 - v11-02f-Run1  
ISOA2 - Diff @ Surface for Apr



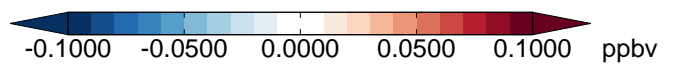
GC\_12.0.0 - v11-02f-Run1  
ISOA2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOA2 - Diff @ Surface for Apr

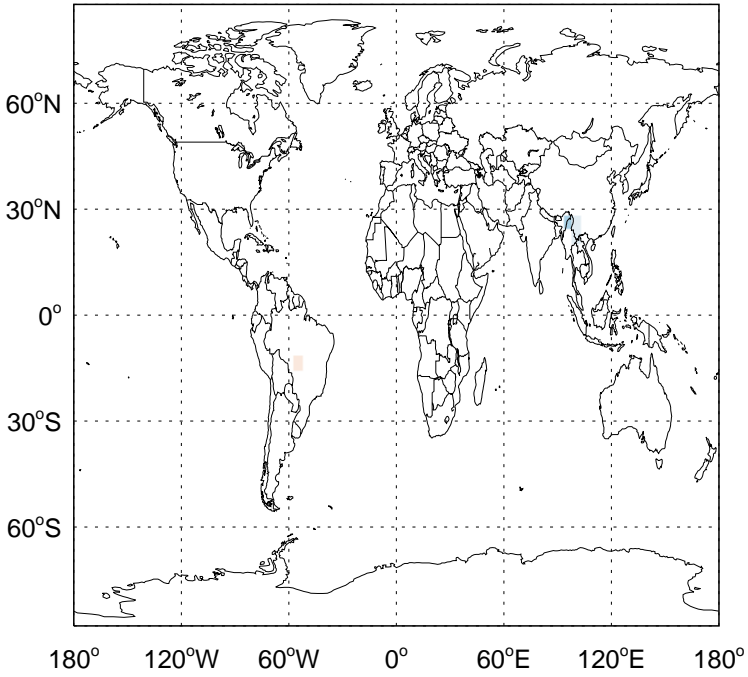


GC\_12.0.0 - v11-02e-Run1  
ISOA2- Diff @ 500 hPa for Apr

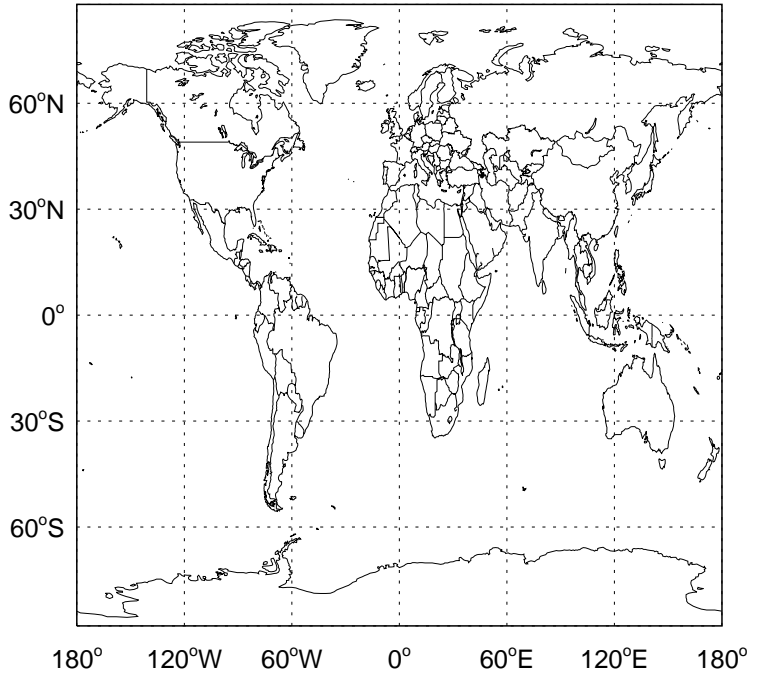


# GEOS-Chem Difference Maps at surface and 500 hPa

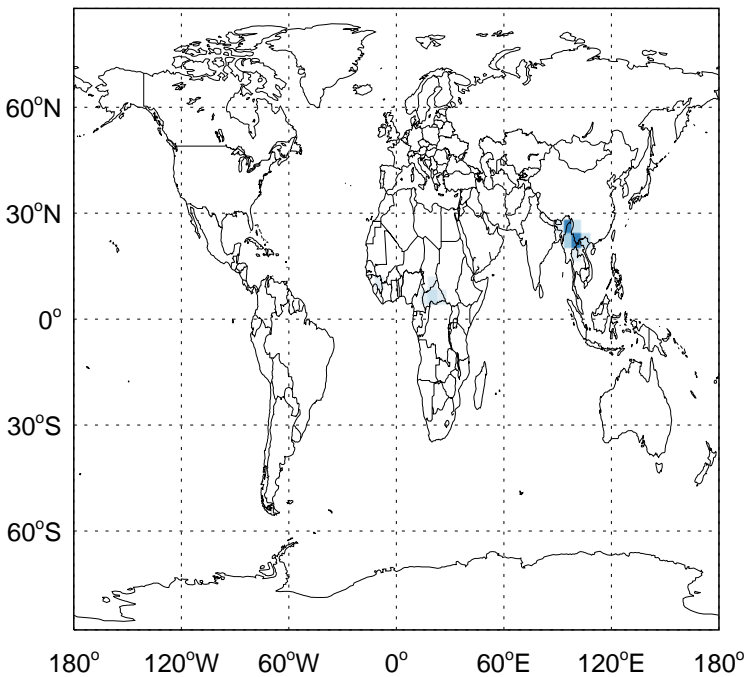
GC\_12.0.0 - v11-02f-Run1  
ISOA3 - Diff @ Surface for Apr



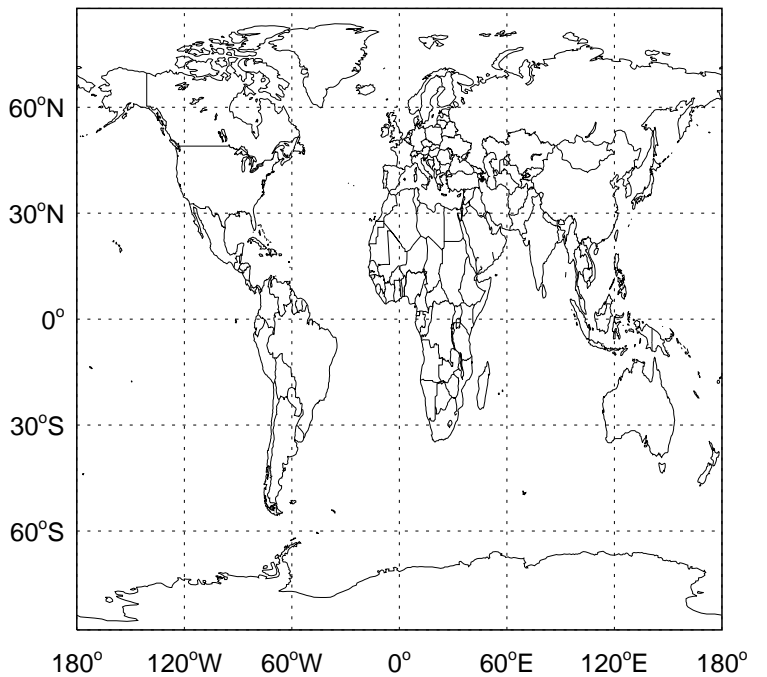
GC\_12.0.0 - v11-02f-Run1  
ISOA3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOA3 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
ISOA3- Diff @ 500 hPa for Apr

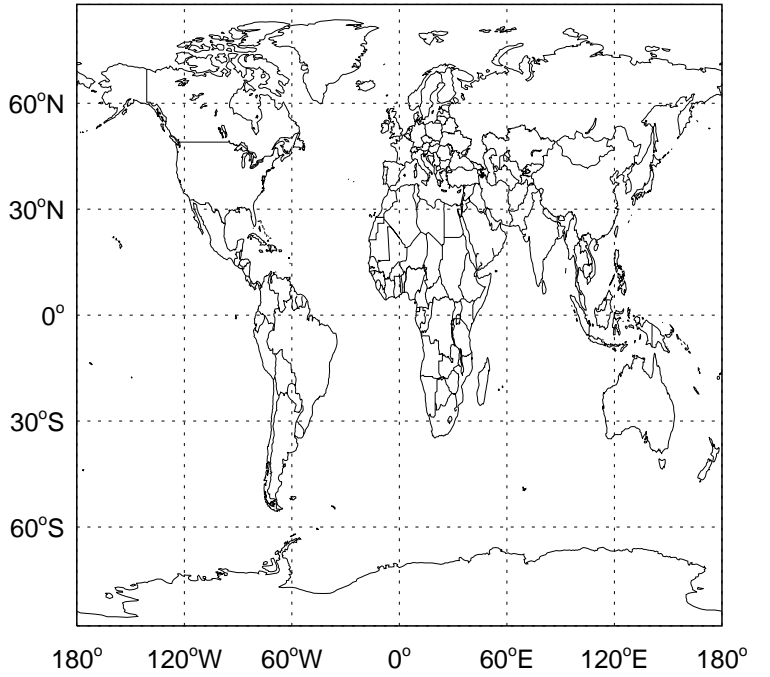


# GEOS-Chem Difference Maps at surface and 500 hPa

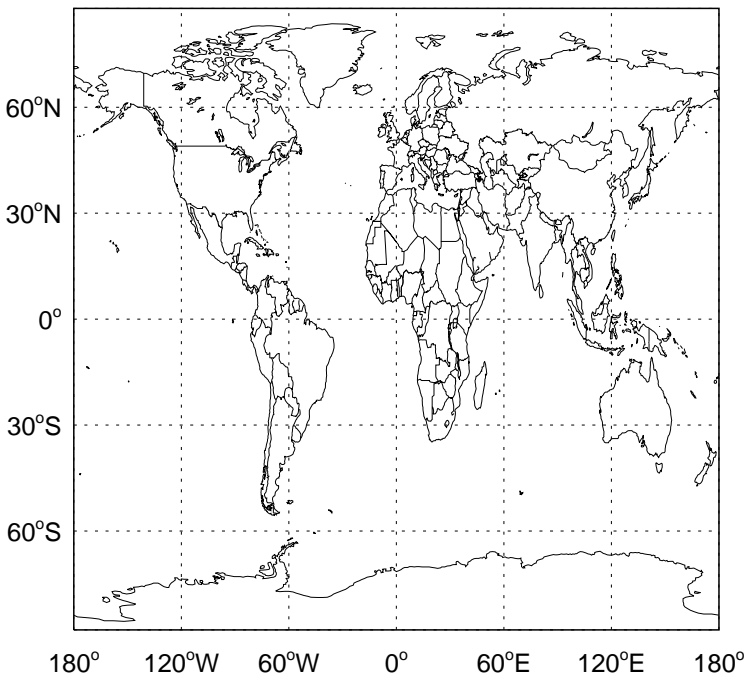
GC\_12.0.0 - v11-02f-Run1  
ASOG1 - Diff @ Surface for Apr



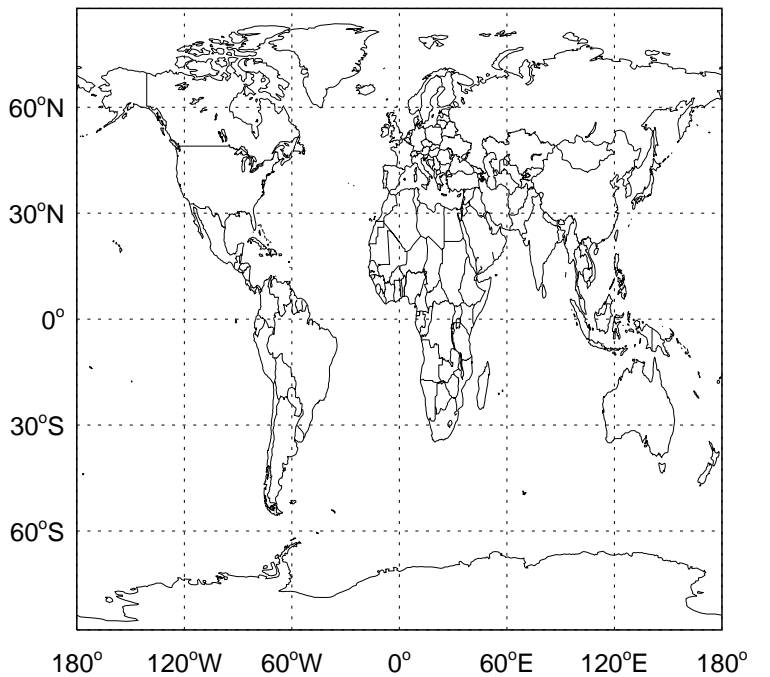
GC\_12.0.0 - v11-02f-Run1  
ASOG1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOG1 - Diff @ Surface for Apr

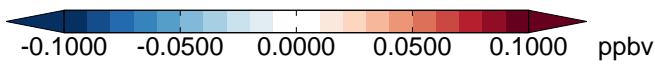
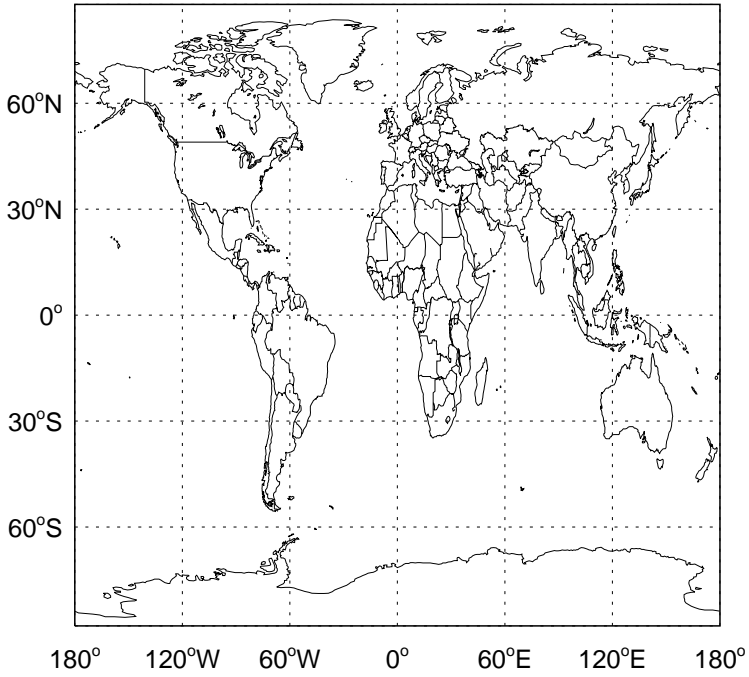


GC\_12.0.0 - v11-02e-Run1  
ASOG1- Diff @ 500 hPa for Apr

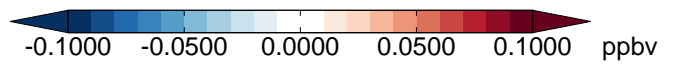


# GEOS-Chem Difference Maps at surface and 500 hPa

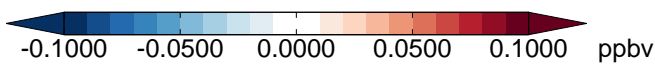
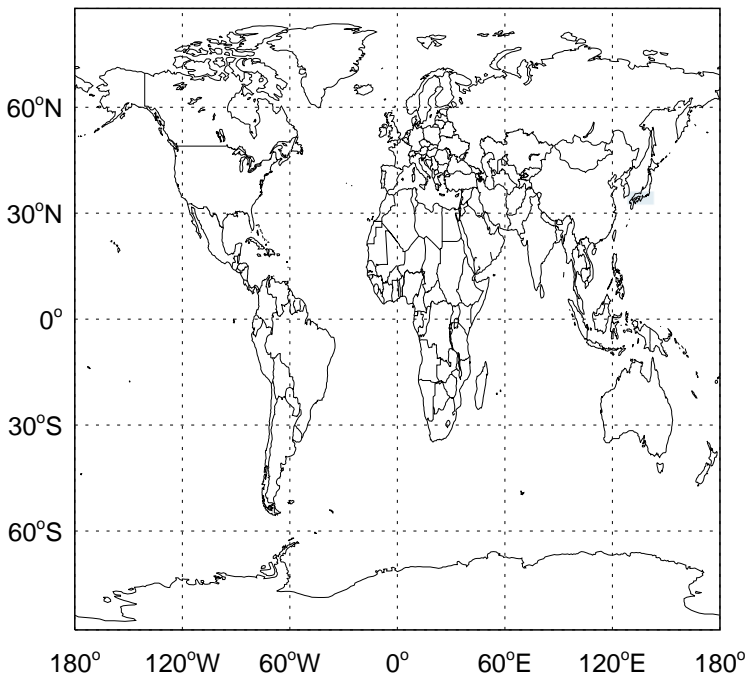
GC\_12.0.0 - v11-02f-Run1  
ASOG2 - Diff @ Surface for Apr



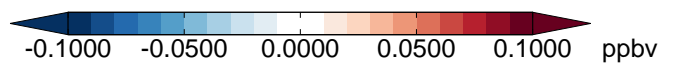
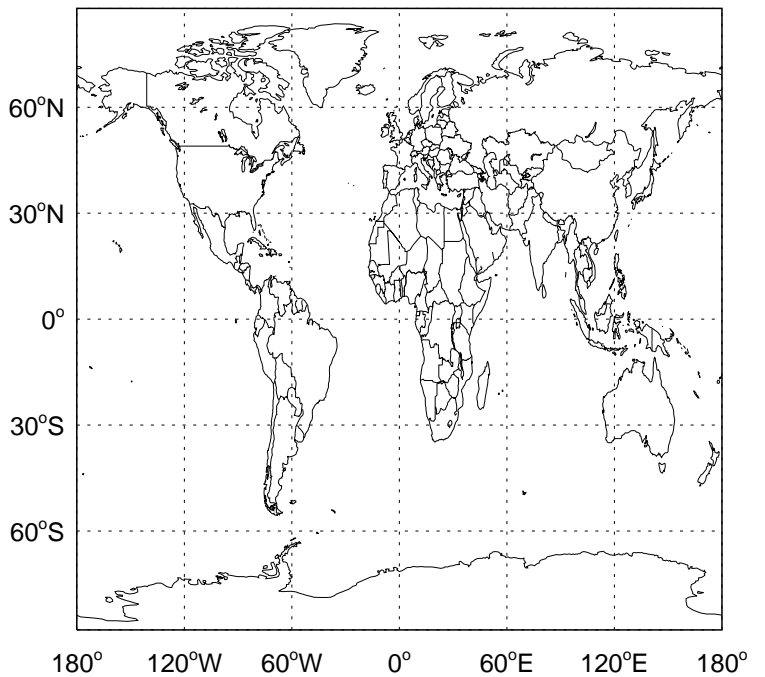
GC\_12.0.0 - v11-02f-Run1  
ASOG2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOG2 - Diff @ Surface for Apr



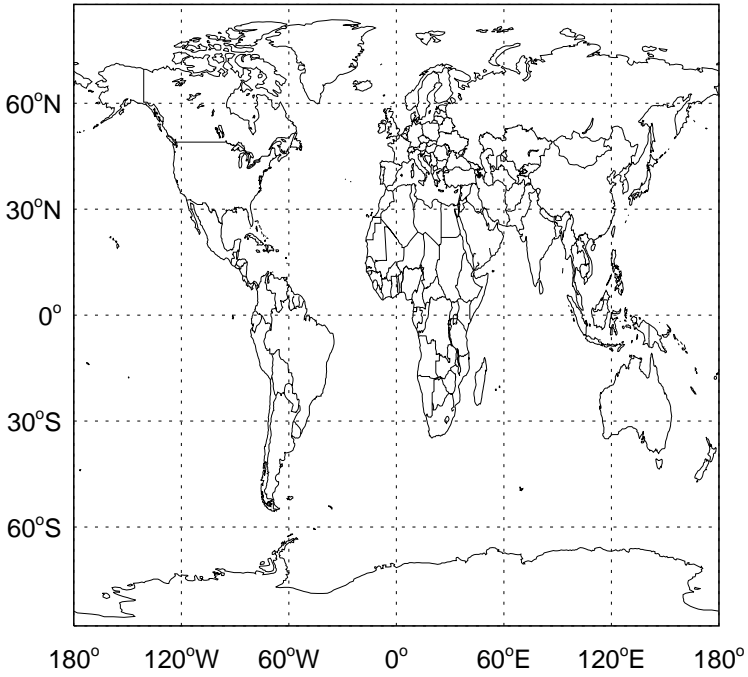
GC\_12.0.0 - v11-02e-Run1  
ASOG2- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

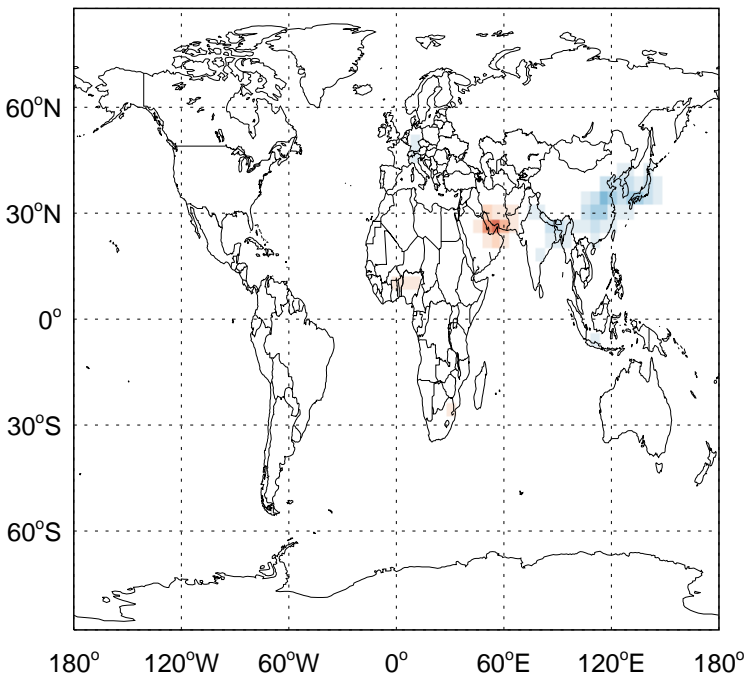
GC\_12.0.0 - v11-02f-Run1  
ASOG3 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ASOG3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOG3 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOG3- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

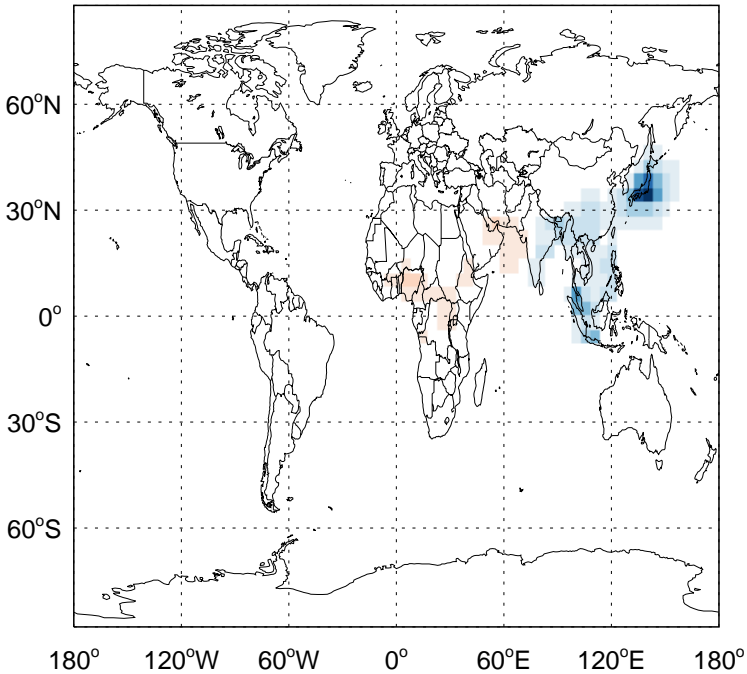
GC\_12.0.0 - v11-02f-Run1  
ASOAN - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ASOAN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOAN - Diff @ Surface for Apr

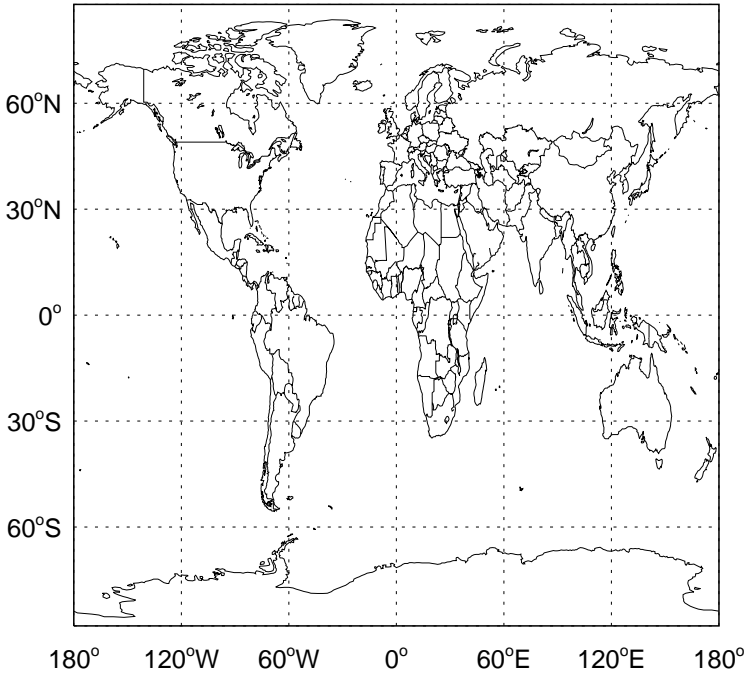


GC\_12.0.0 - v11-02e-Run1  
ASOAN- Diff @ 500 hPa for Apr

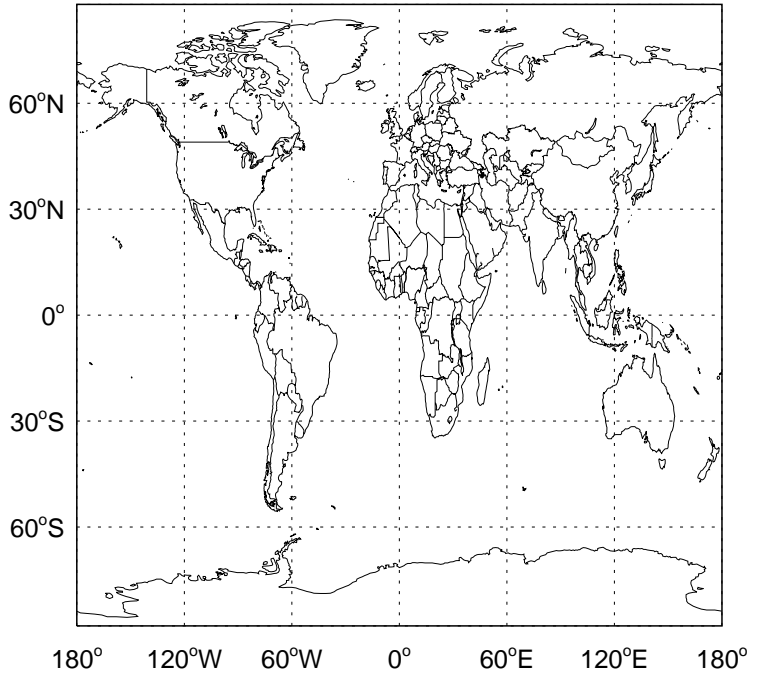


# GEOS-Chem Difference Maps at surface and 500 hPa

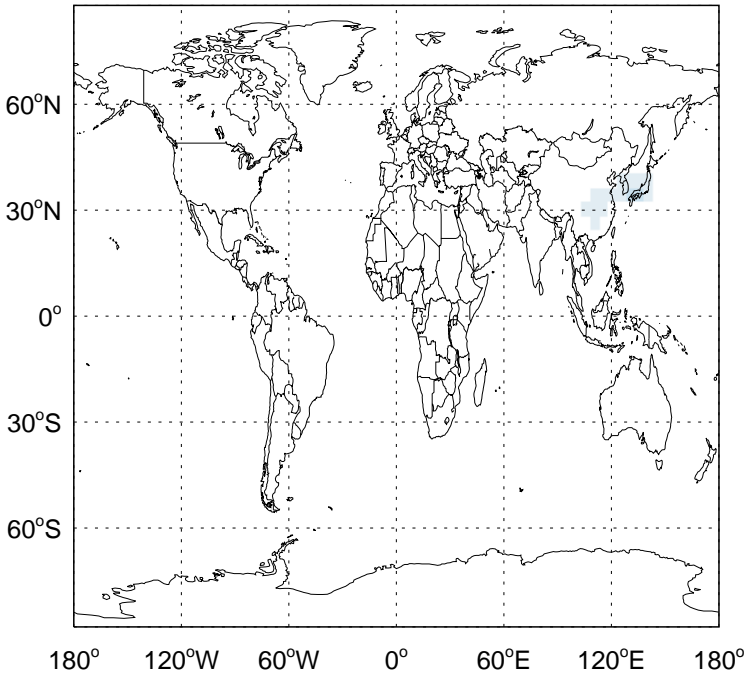
GC\_12.0.0 - v11-02f-Run1  
ASOA1 - Diff @ Surface for Apr



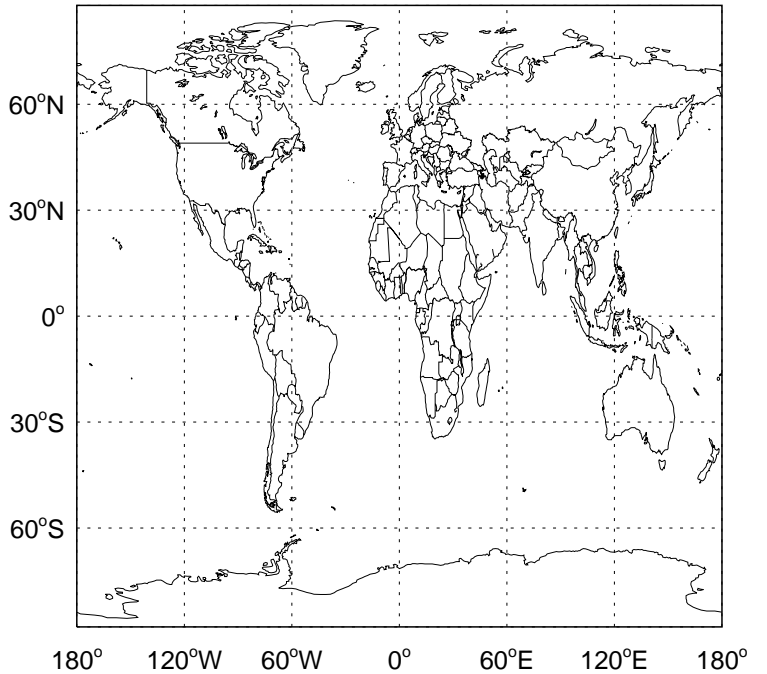
GC\_12.0.0 - v11-02f-Run1  
ASOA1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOA1 - Diff @ Surface for Apr

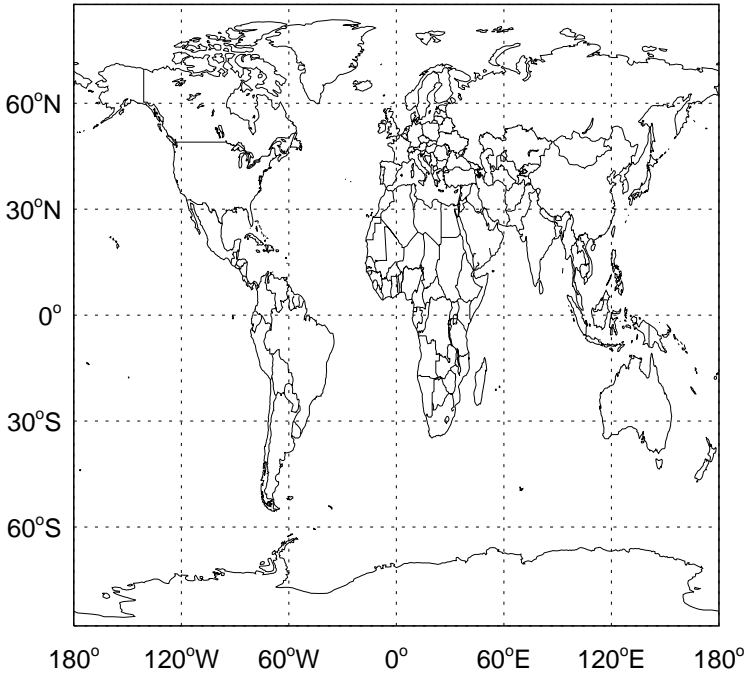


GC\_12.0.0 - v11-02e-Run1  
ASOA1- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

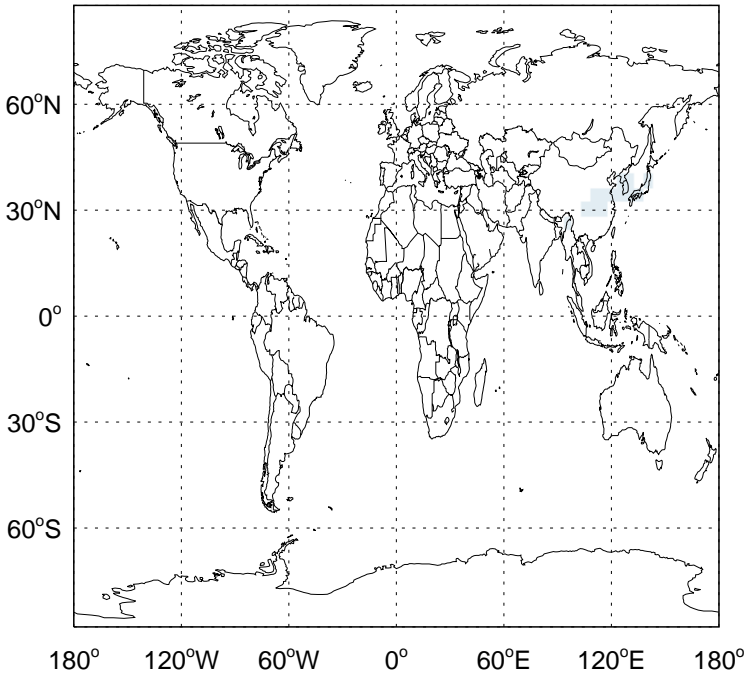
GC\_12.0.0 - v11-02f-Run1  
ASOA2 - Diff @ Surface for Apr



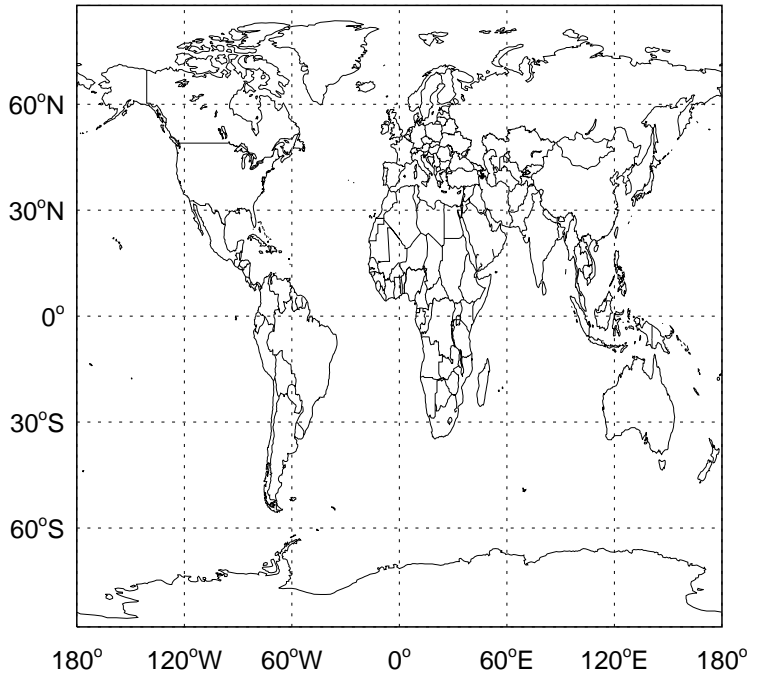
GC\_12.0.0 - v11-02f-Run1  
ASOA2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOA2 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOA2- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

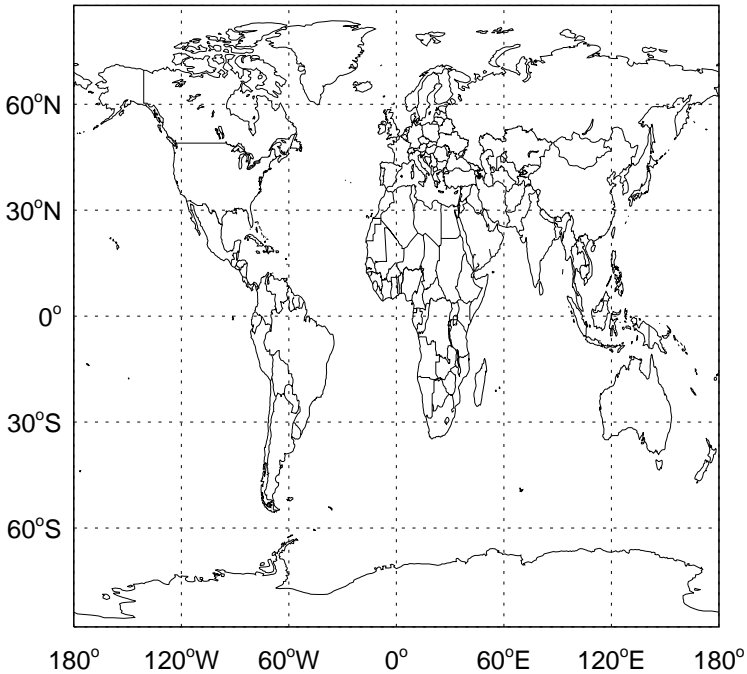
GC\_12.0.0 - v11-02f-Run1  
ASOA3 - Diff @ Surface for Apr



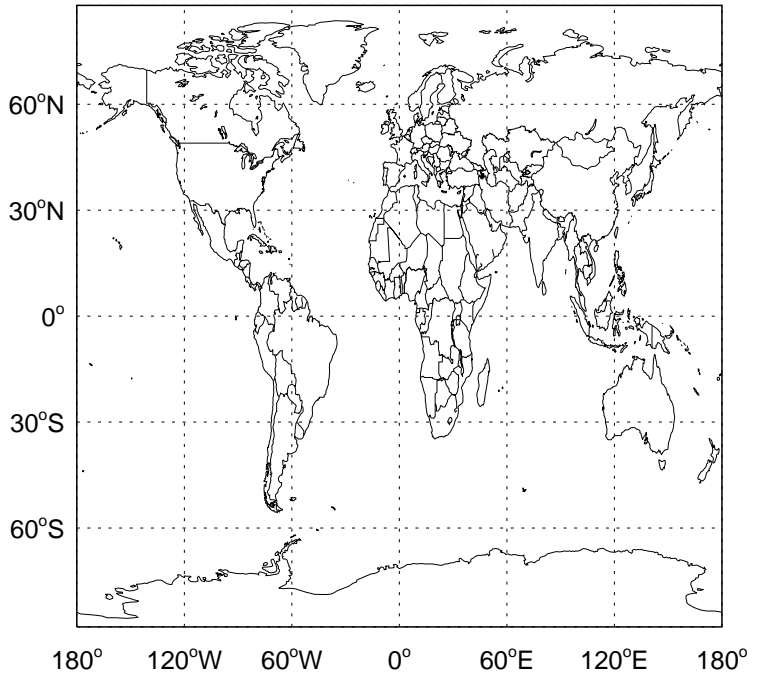
GC\_12.0.0 - v11-02f-Run1  
ASOA3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ASOA3 - Diff @ Surface for Apr

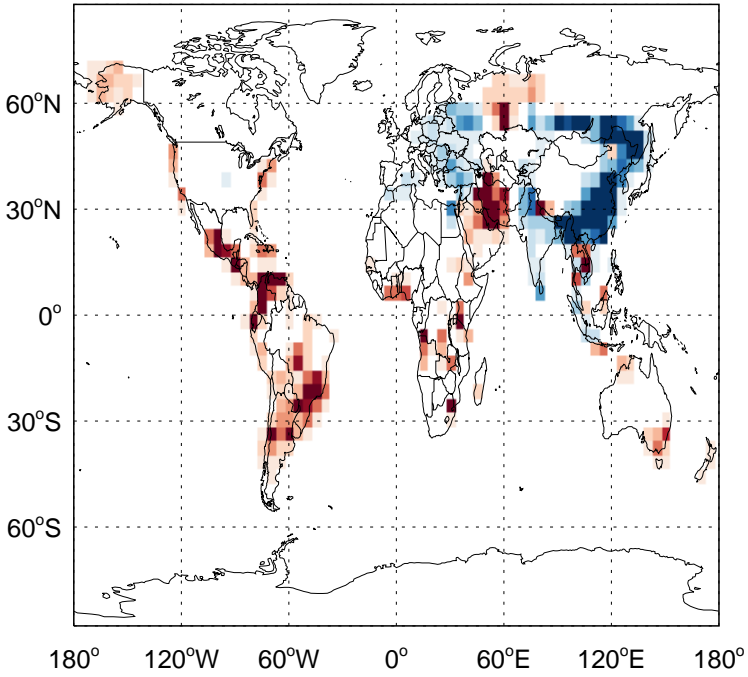


GC\_12.0.0 - v11-02e-Run1  
ASOA3- Diff @ 500 hPa for Apr

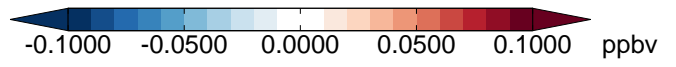
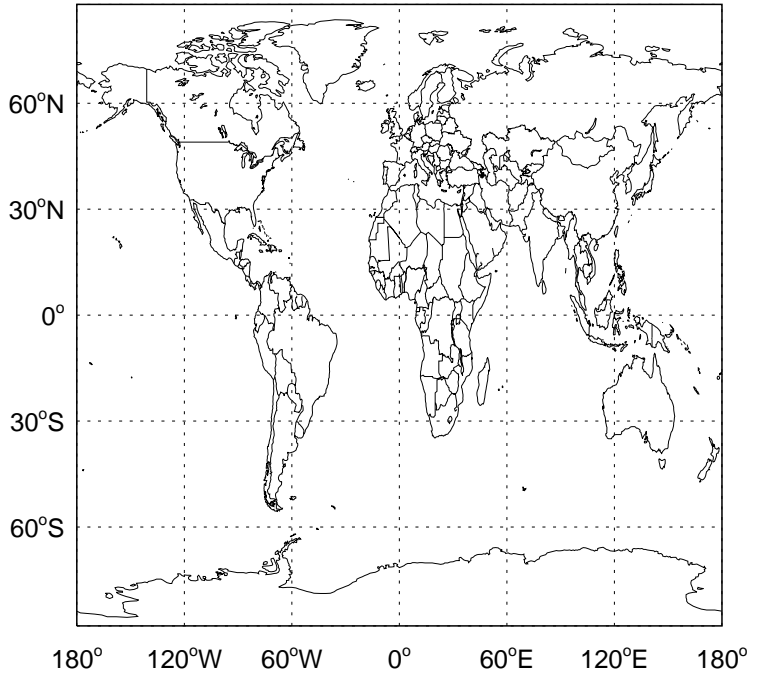


# GEOS-Chem Difference Maps at surface and 500 hPa

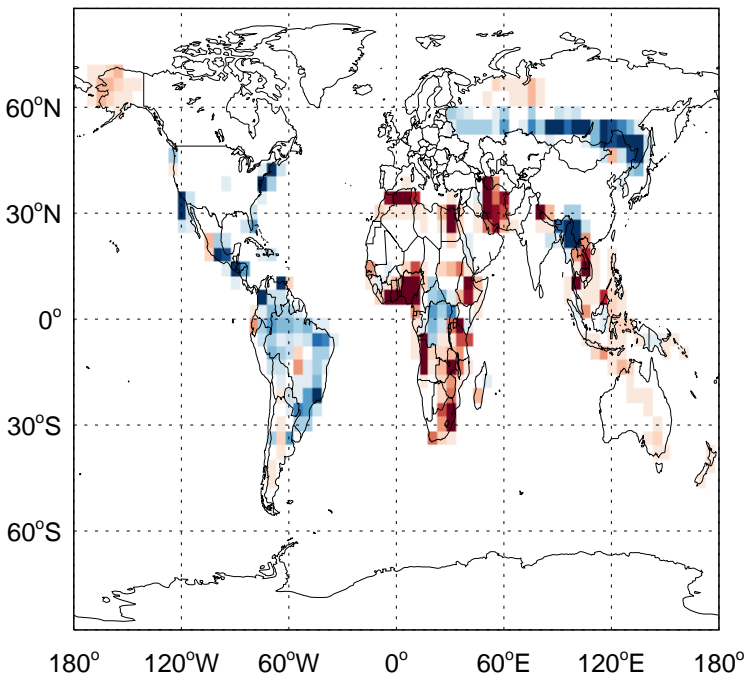
GC\_12.0.0 - v11-02f-Run1  
SOAP - Diff @ Surface for Apr



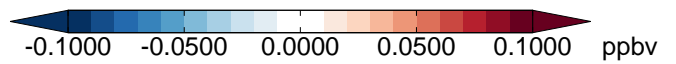
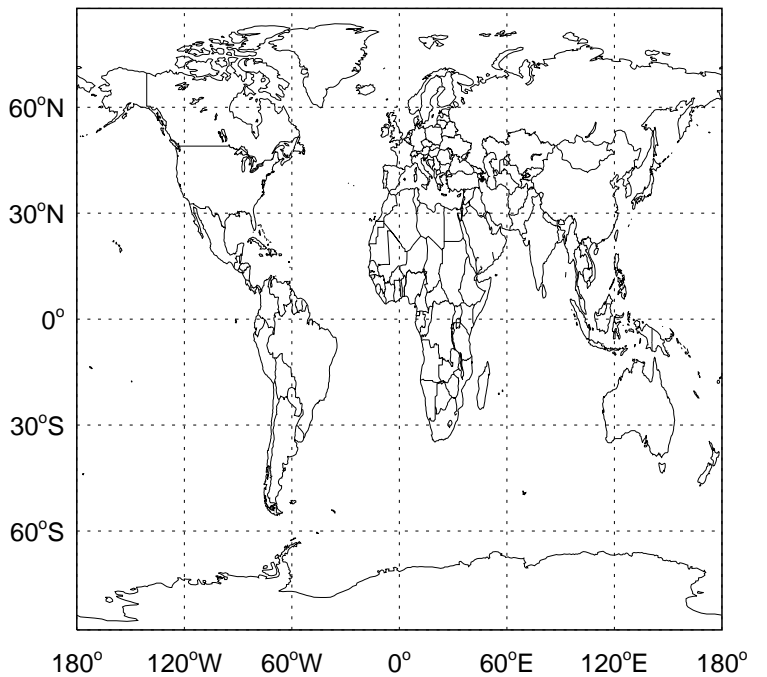
GC\_12.0.0 - v11-02f-Run1  
SOAP- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAP - Diff @ Surface for Apr

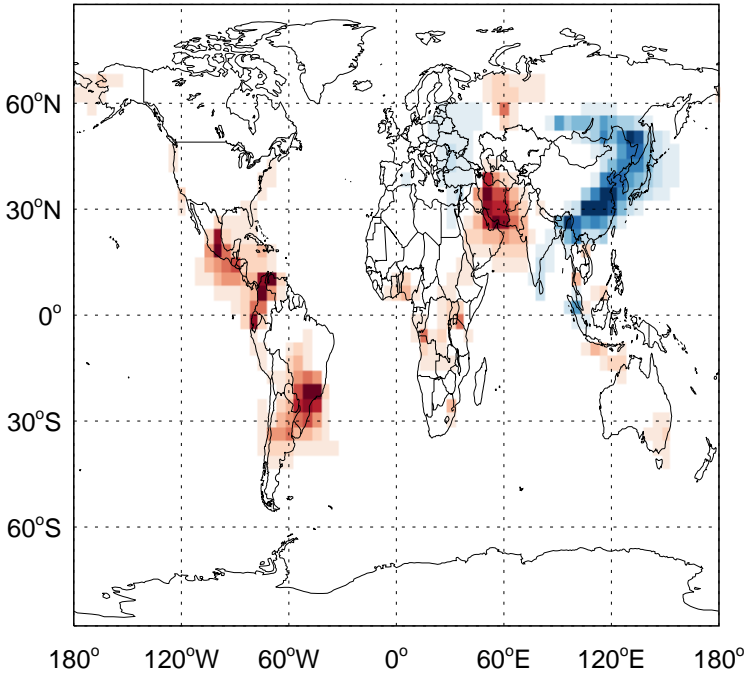


GC\_12.0.0 - v11-02e-Run1  
SOAP- Diff @ 500 hPa for Apr

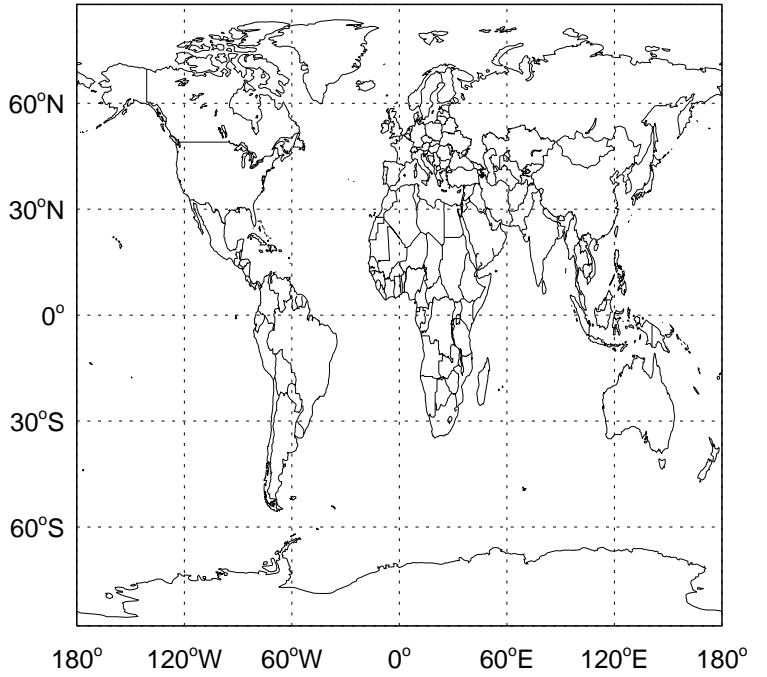


# GEOS-Chem Difference Maps at surface and 500 hPa

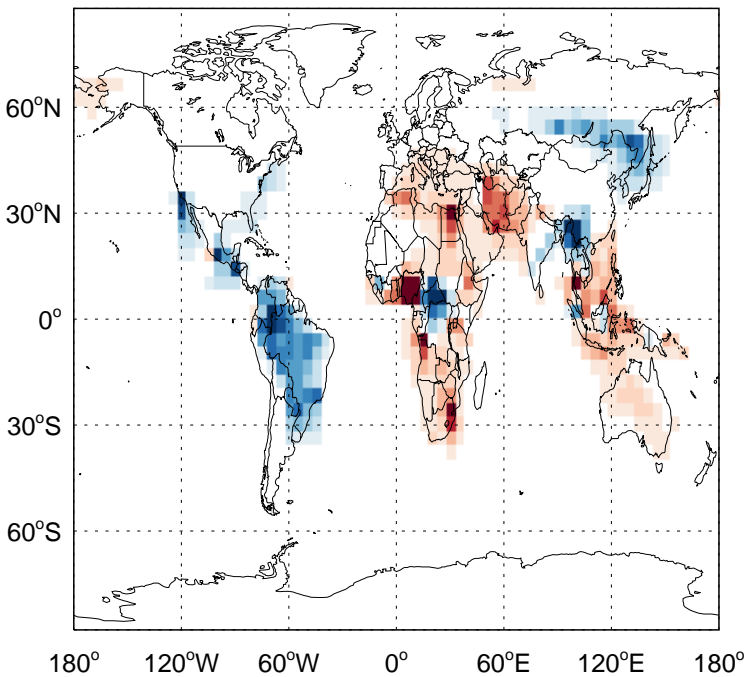
GC\_12.0.0 - v11-02f-Run1  
SOAS - Diff @ Surface for Apr



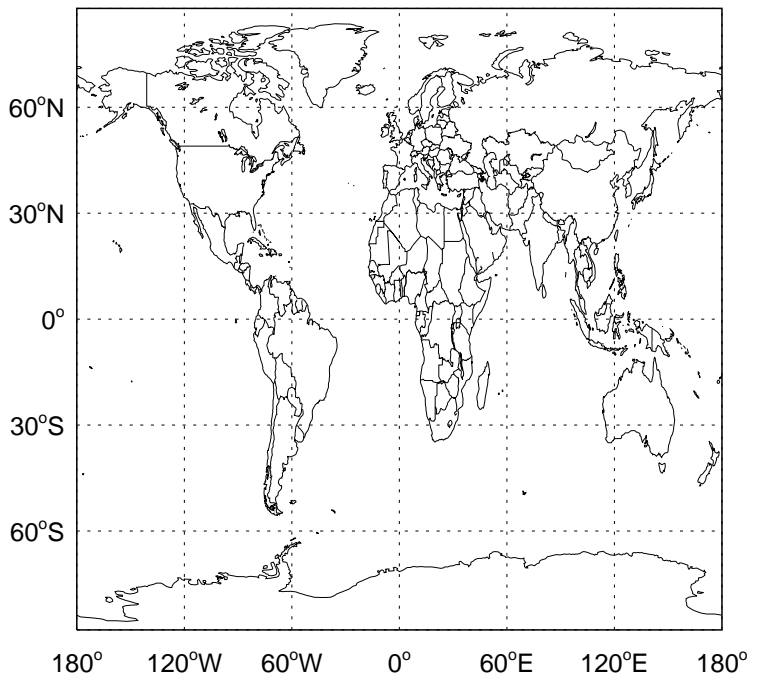
GC\_12.0.0 - v11-02f-Run1  
SOAS- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAS - Diff @ Surface for Apr

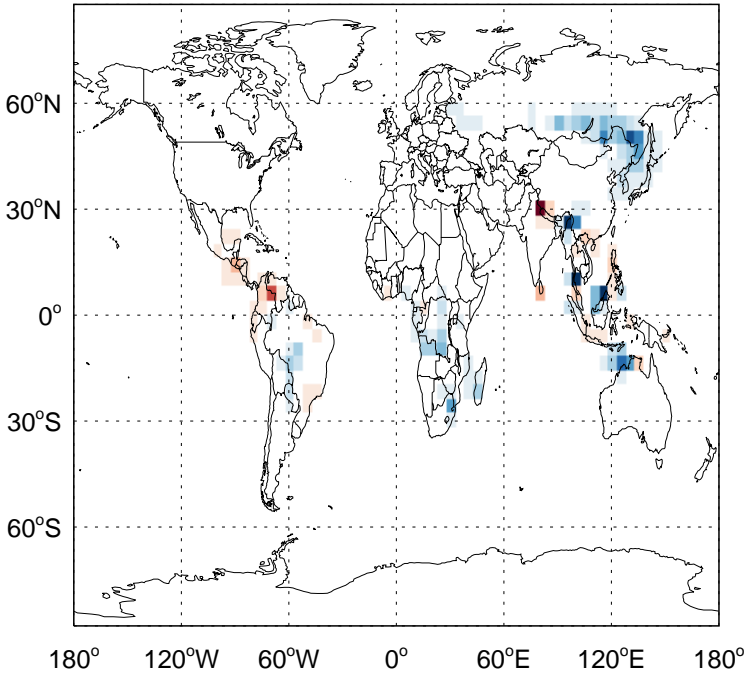


GC\_12.0.0 - v11-02e-Run1  
SOAS- Diff @ 500 hPa for Apr

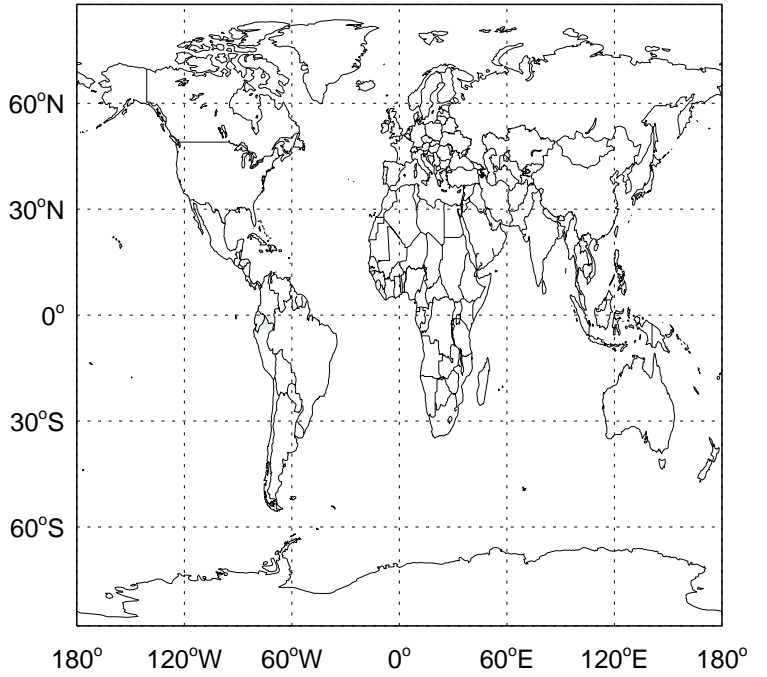


# GEOS-Chem Difference Maps at surface and 500 hPa

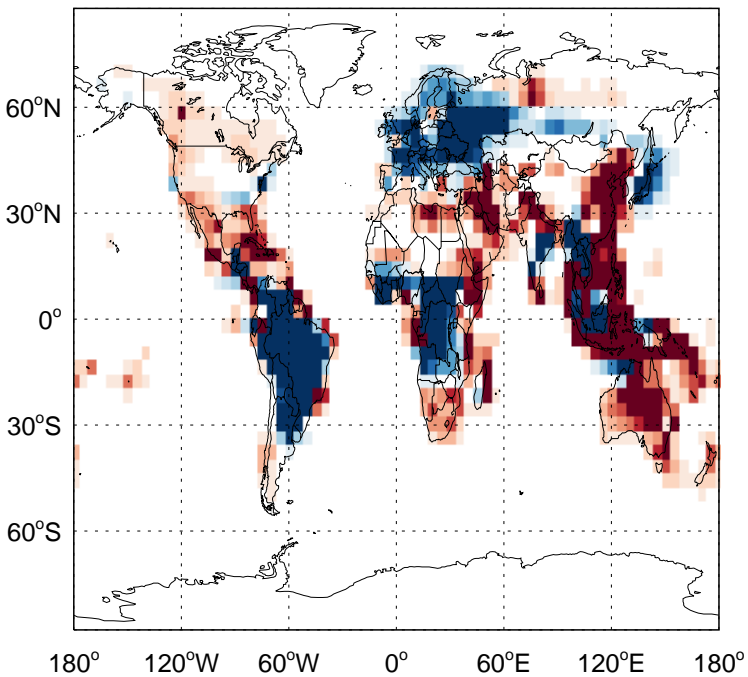
GC\_12.0.0 - v11-02f-Run1  
EOH - Diff @ Surface for Apr



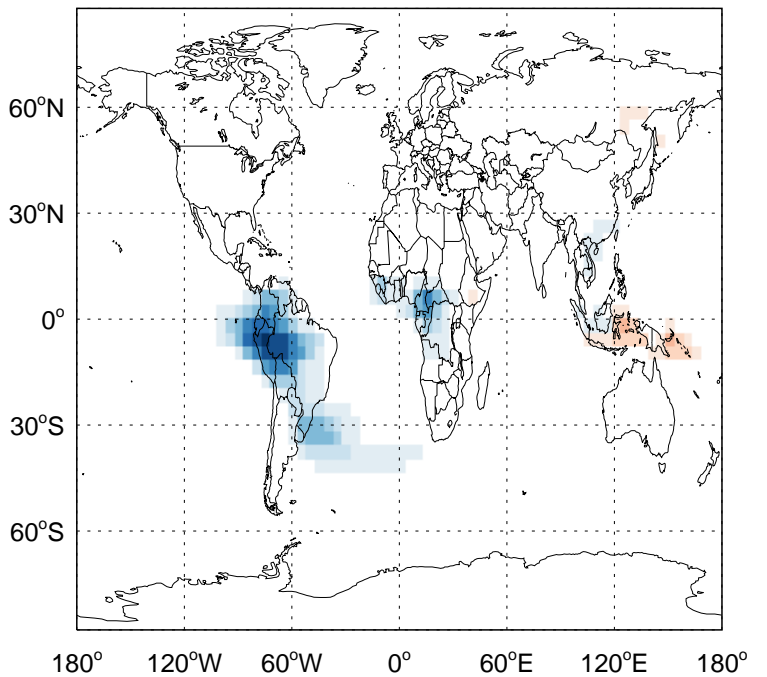
GC\_12.0.0 - v11-02f-Run1  
EOH- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
EOH - Diff @ Surface for Apr



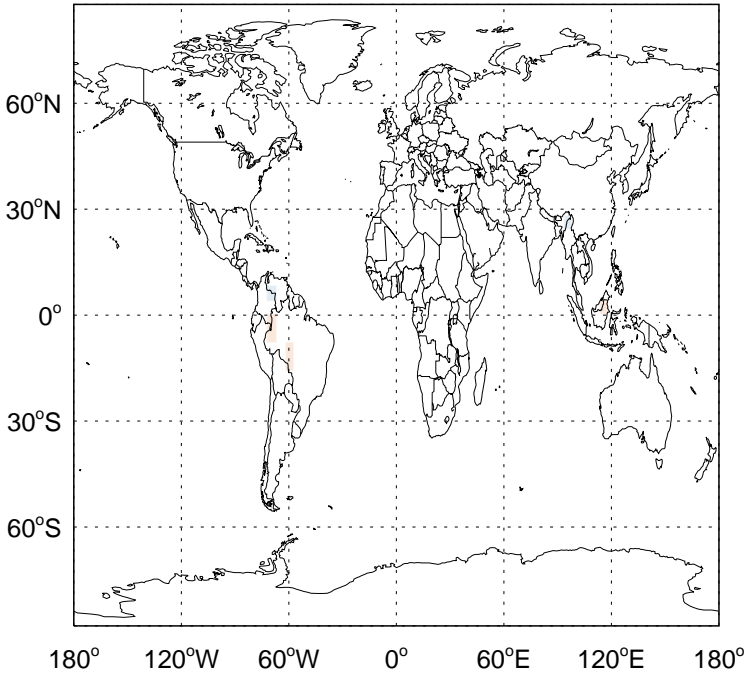
GC\_12.0.0 - v11-02e-Run1  
EOH- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

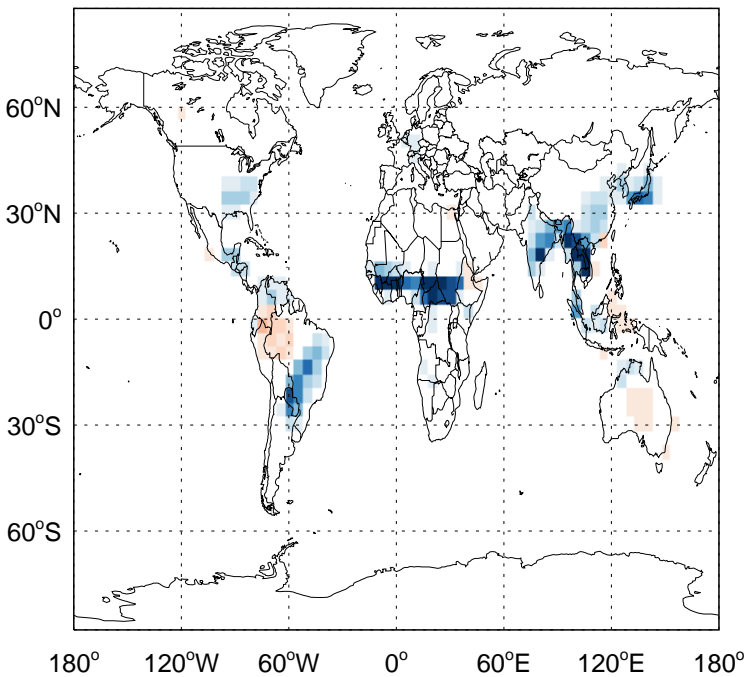
GC\_12.0.0 - v11-02f-Run1  
MGLY - Diff @ Surface for Apr



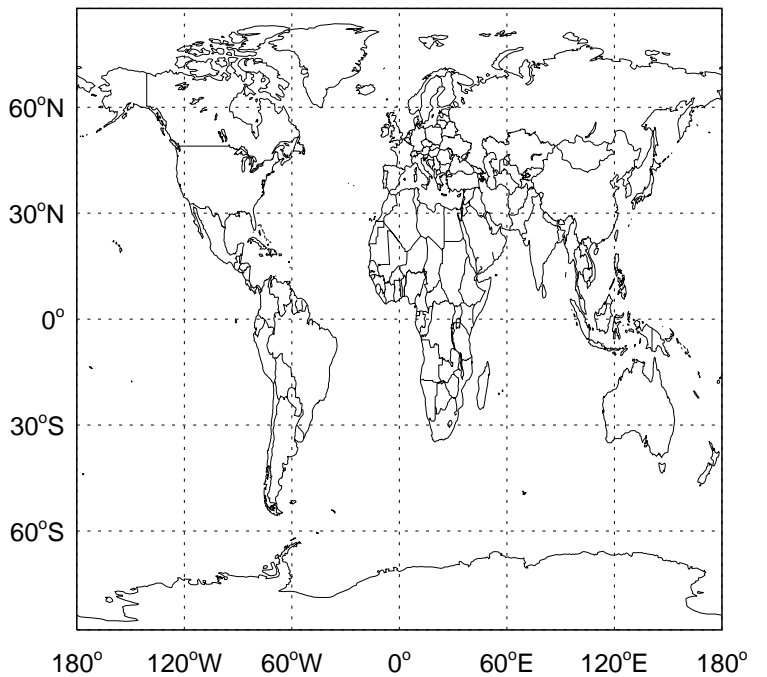
GC\_12.0.0 - v11-02f-Run1  
MGLY- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MGLY - Diff @ Surface for Apr

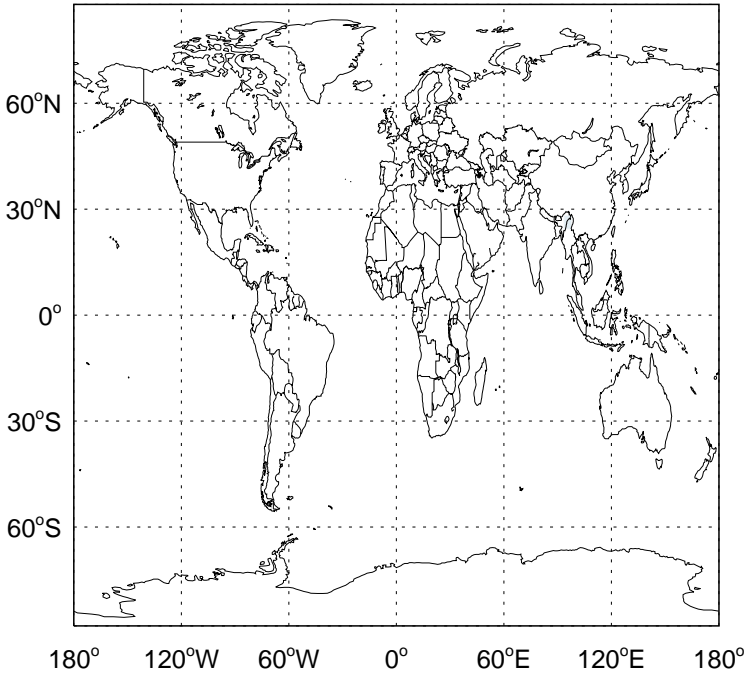


GC\_12.0.0 - v11-02e-Run1  
MGLY- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

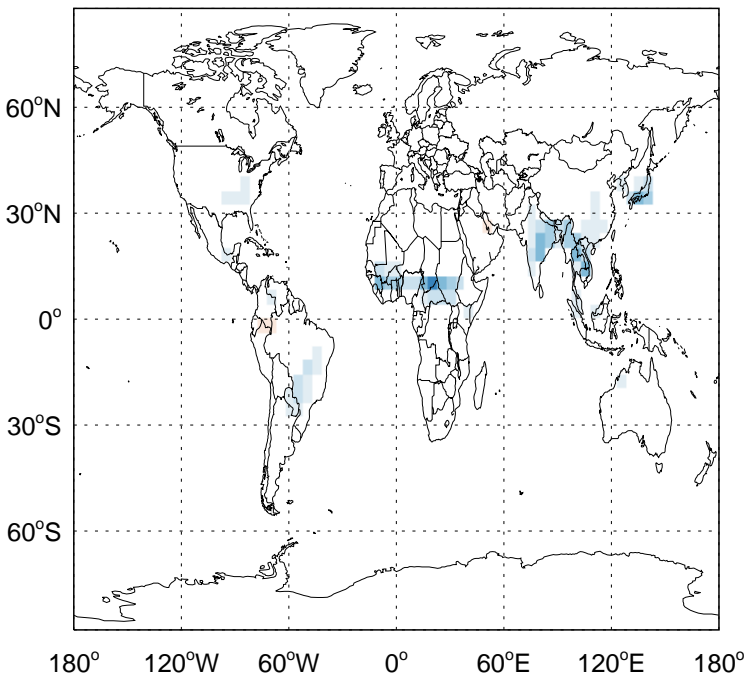
GC\_12.0.0 - v11-02f-Run1  
GLYX - Diff @ Surface for Apr



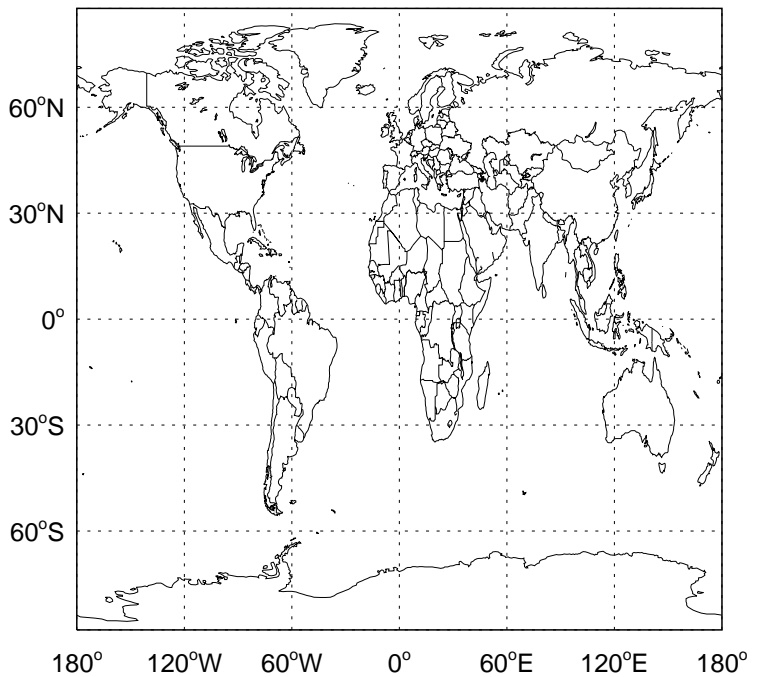
GC\_12.0.0 - v11-02f-Run1  
GLYX- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
GLYX - Diff @ Surface for Apr

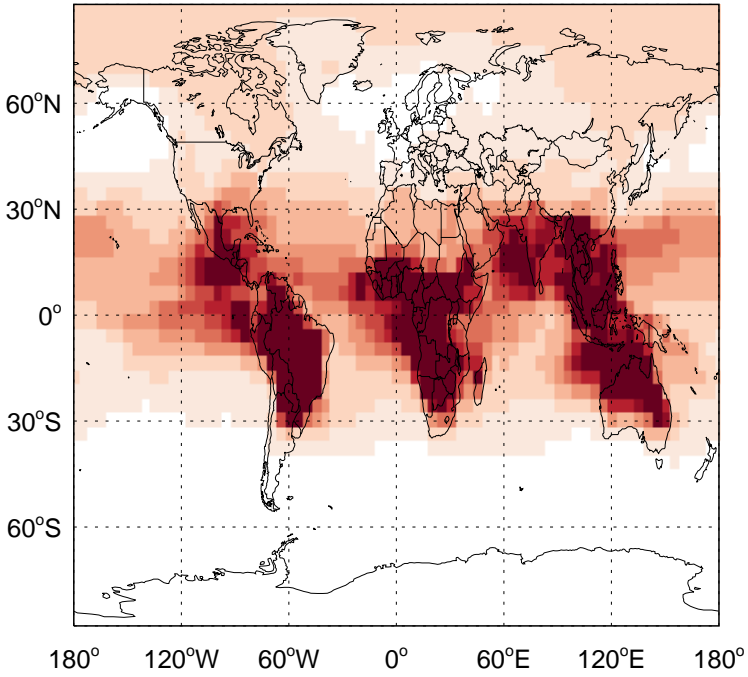


GC\_12.0.0 - v11-02e-Run1  
GLYX- Diff @ 500 hPa for Apr

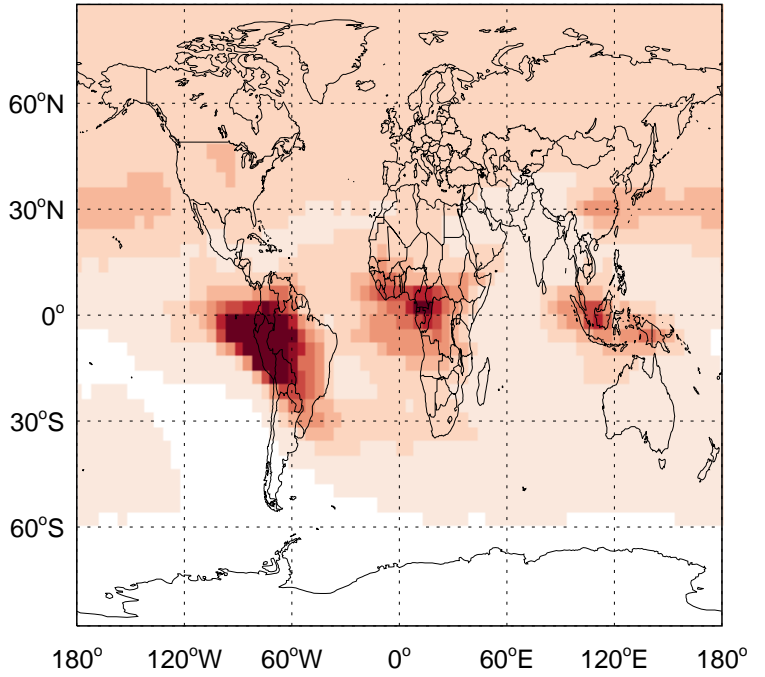


# GEOS-Chem Difference Maps at surface and 500 hPa

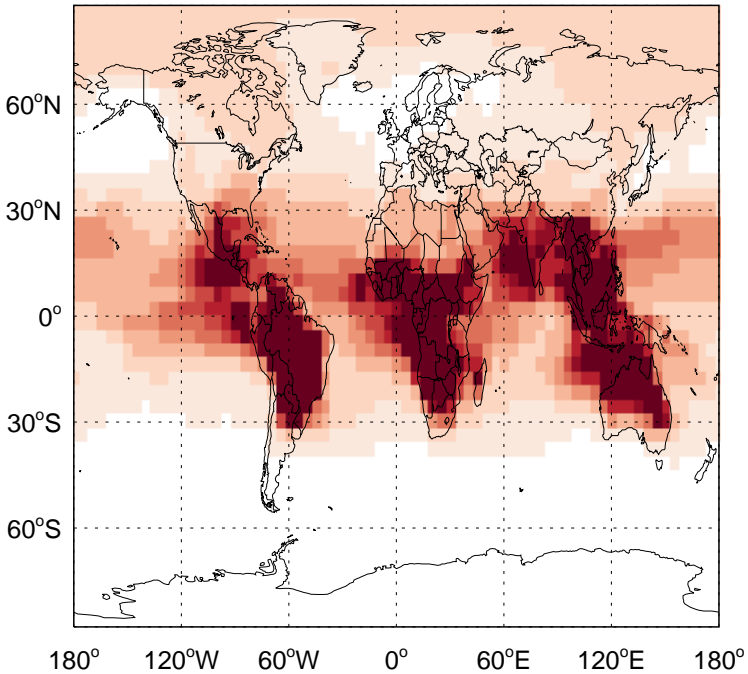
GC\_12.0.0 - v11-02f-Run1  
ACTA - Diff @ Surface for Apr



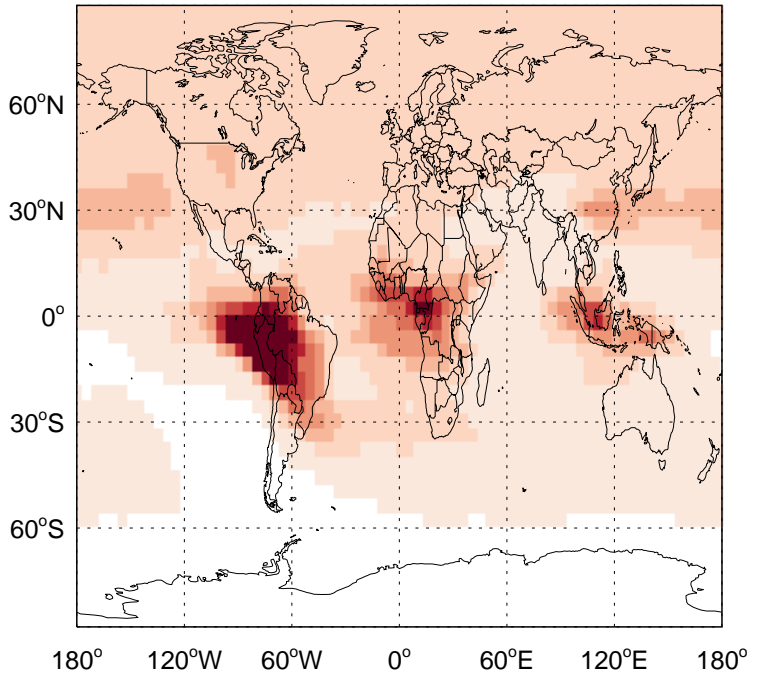
GC\_12.0.0 - v11-02f-Run1  
ACTA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ACTA - Diff @ Surface for Apr

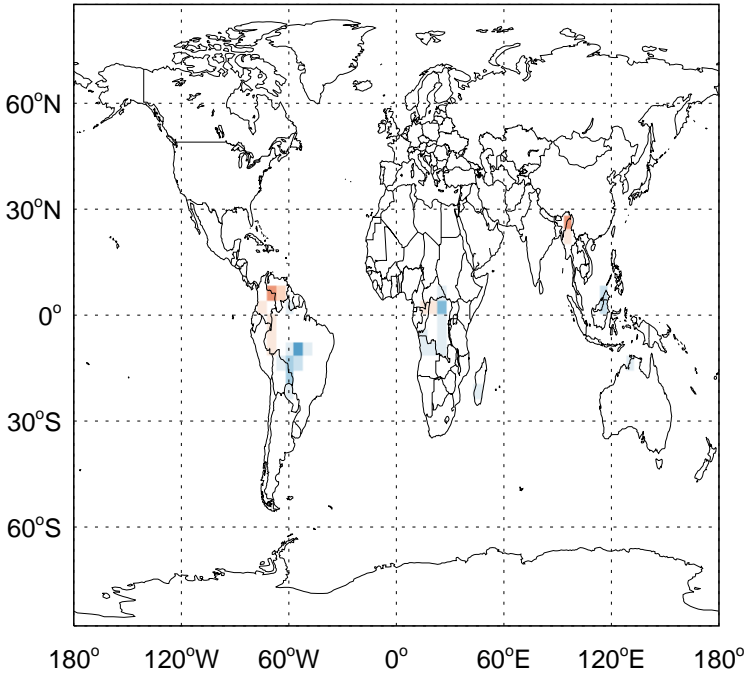


GC\_12.0.0 - v11-02e-Run1  
ACTA- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

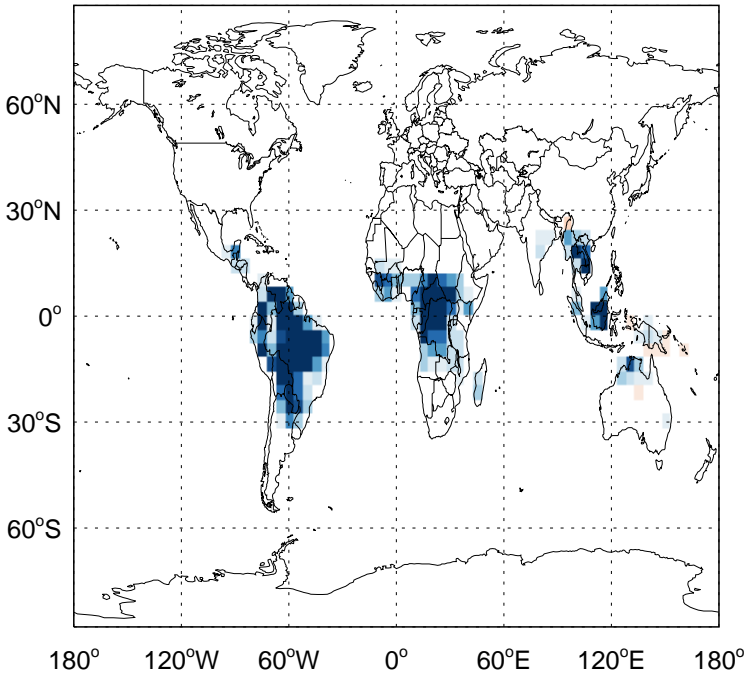
GC\_12.0.0 - v11-02f-Run1  
HPALD - Diff @ Surface for Apr



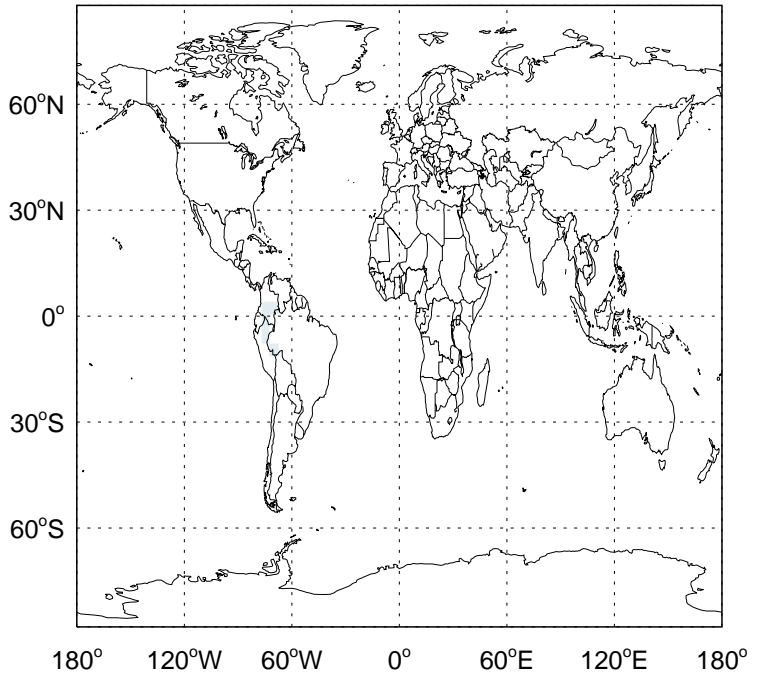
GC\_12.0.0 - v11-02f-Run1  
HPALD- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HPALD - Diff @ Surface for Apr

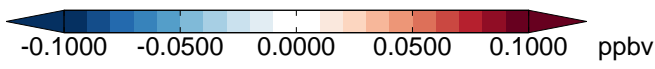


GC\_12.0.0 - v11-02e-Run1  
HPALD- Diff @ 500 hPa for Apr

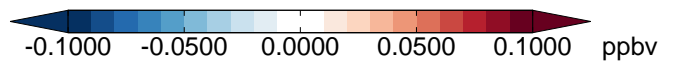


# GEOS-Chem Difference Maps at surface and 500 hPa

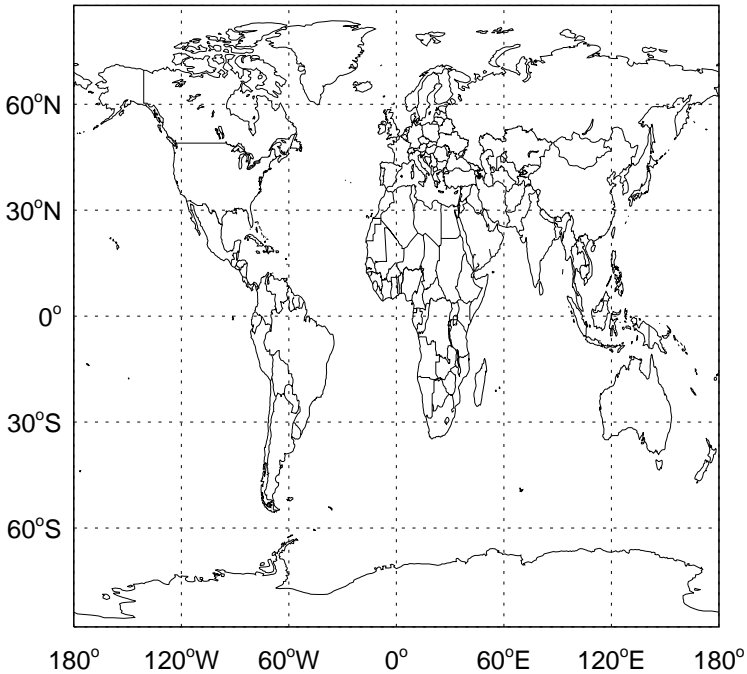
GC\_12.0.0 - v11-02f-Run1  
DHDN - Diff @ Surface for Apr



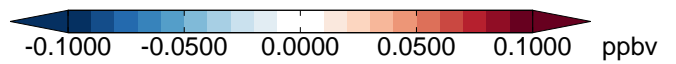
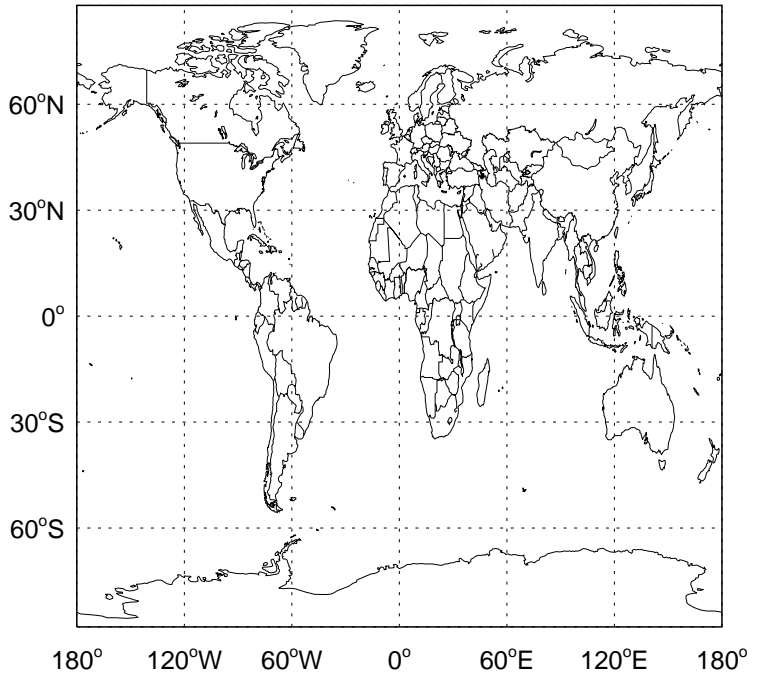
GC\_12.0.0 - v11-02f-Run1  
DHDN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
DHDN - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
DHDN- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

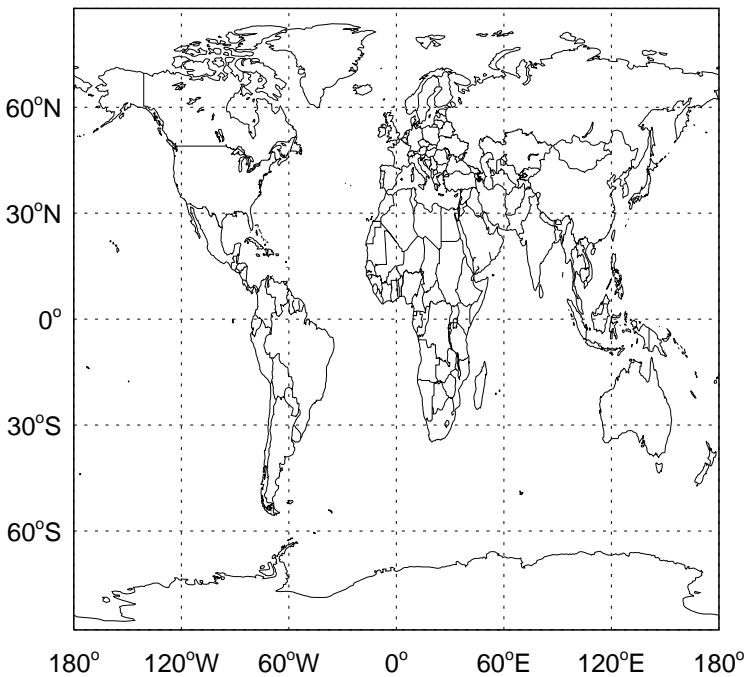
GC\_12.0.0 - v11-02f-Run1  
ETHLN - Diff @ Surface for Apr



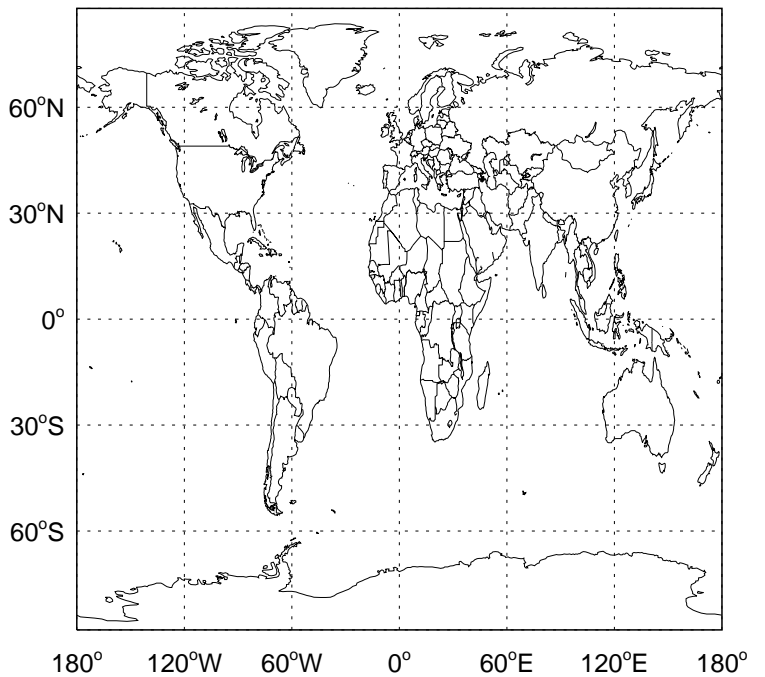
GC\_12.0.0 - v11-02f-Run1  
ETHLN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ETHLN - Diff @ Surface for Apr

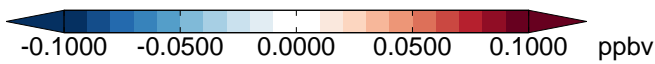
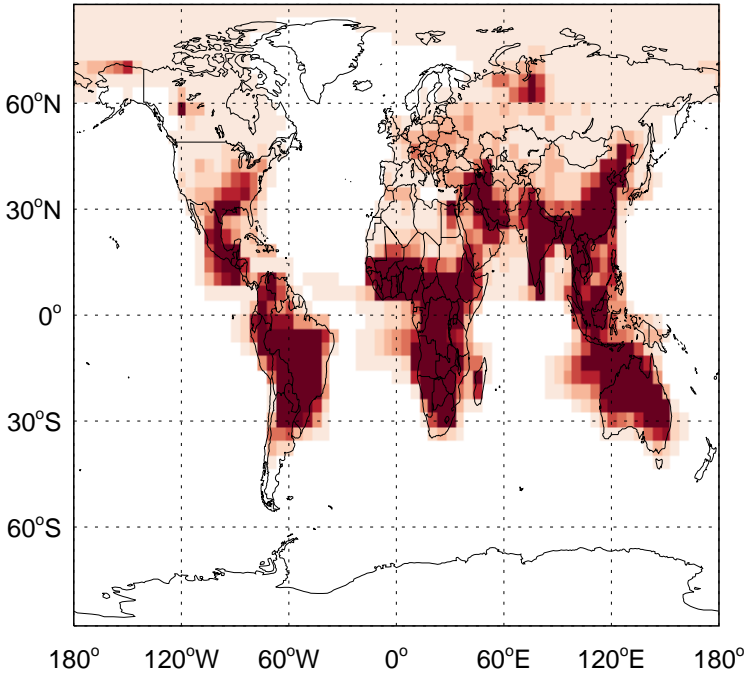


GC\_12.0.0 - v11-02e-Run1  
ETHLN- Diff @ 500 hPa for Apr

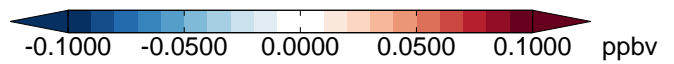
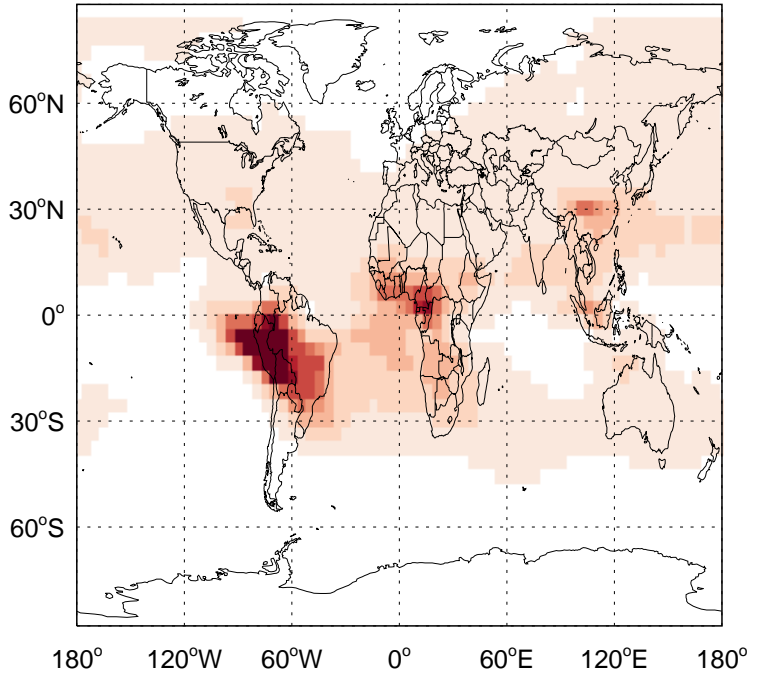


# GEOS-Chem Difference Maps at surface and 500 hPa

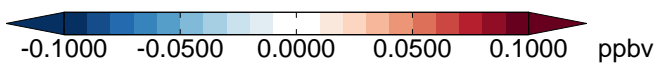
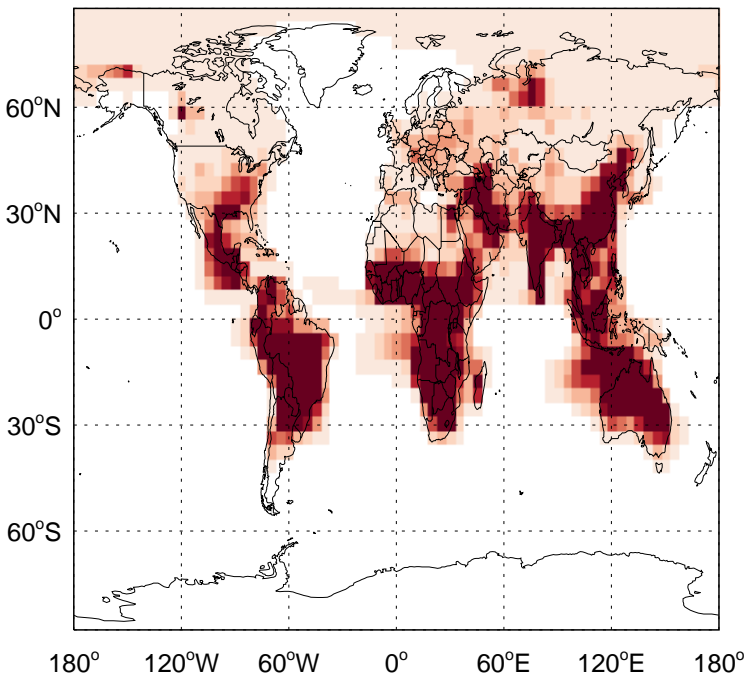
GC\_12.0.0 - v11-02f-Run1  
HCOOH - Diff @ Surface for Apr



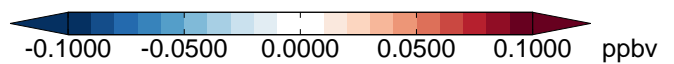
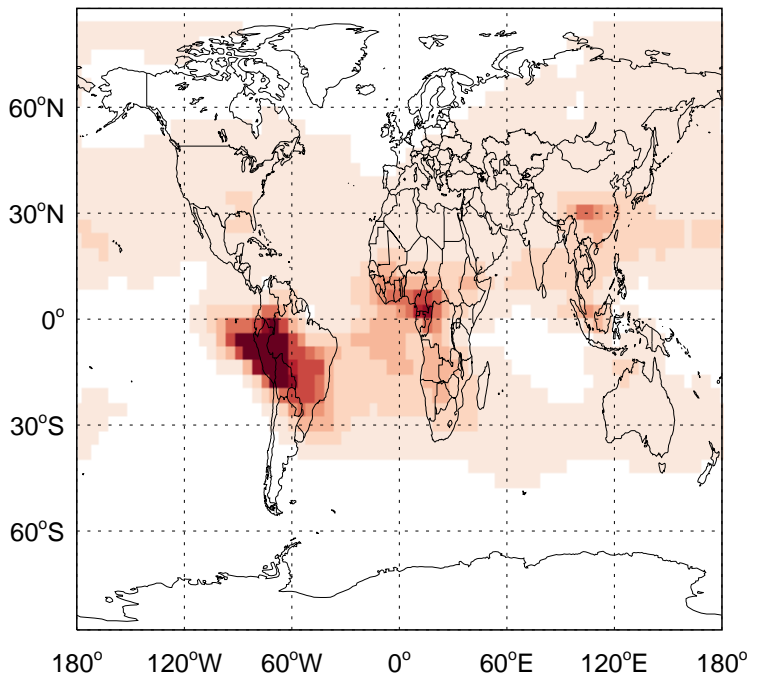
GC\_12.0.0 - v11-02f-Run1  
HCOOH- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCOOH - Diff @ Surface for Apr

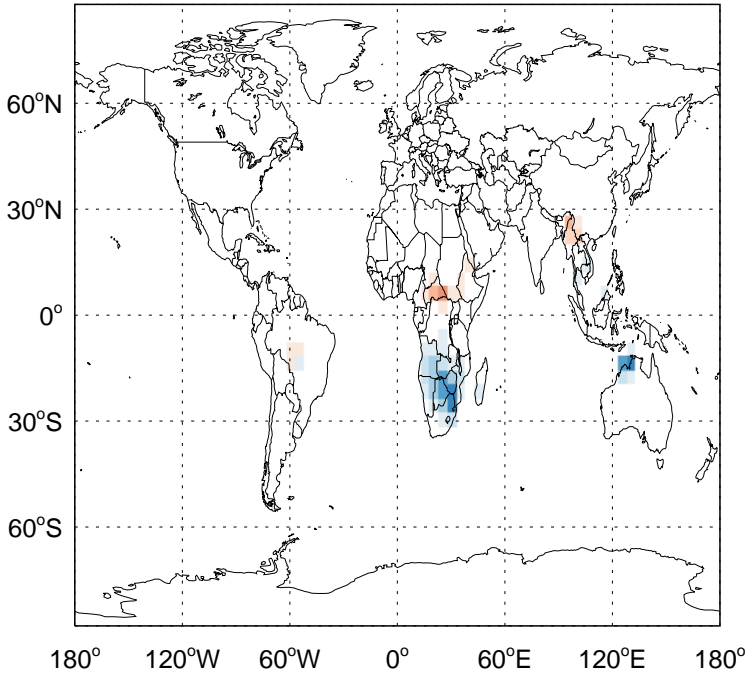


GC\_12.0.0 - v11-02e-Run1  
HCOOH- Diff @ 500 hPa for Apr

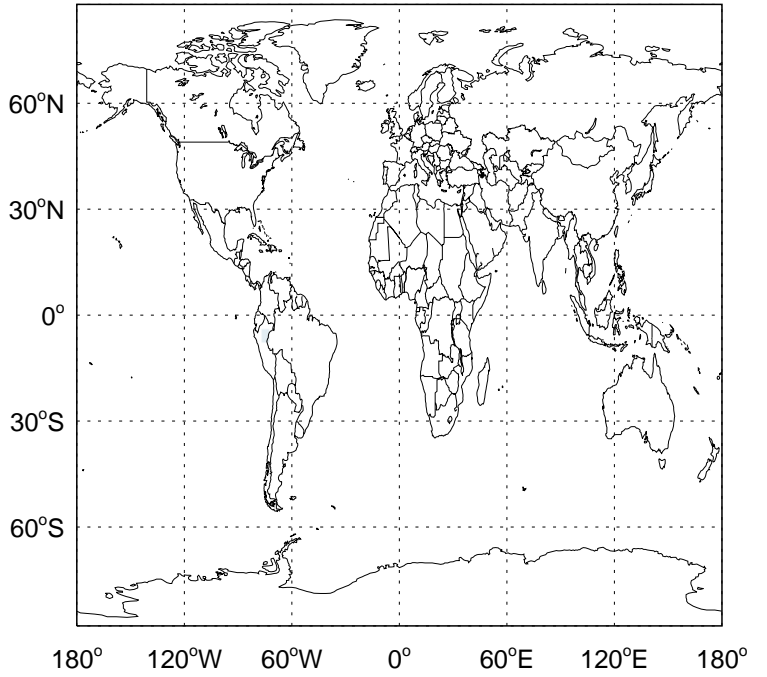


# GEOS-Chem Difference Maps at surface and 500 hPa

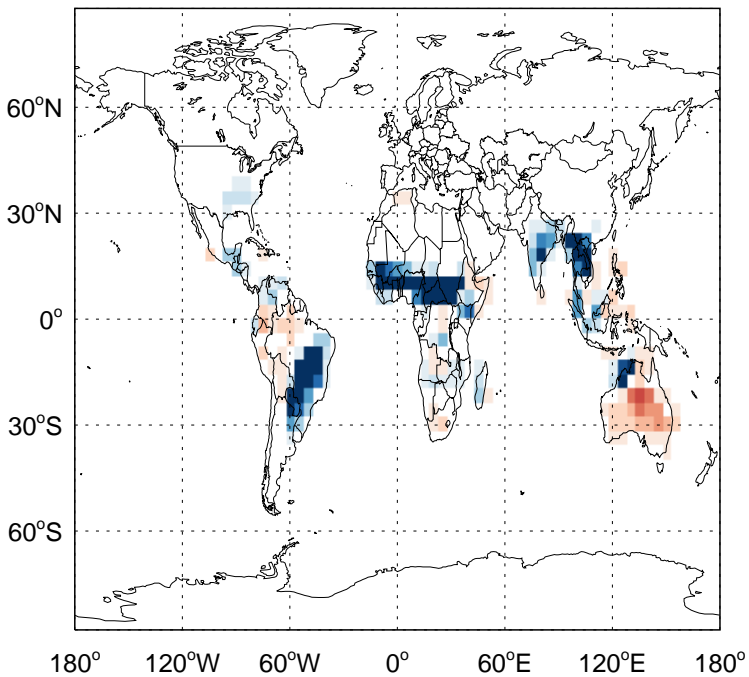
GC\_12.0.0 - v11-02f-Run1  
IEPOXA - Diff @ Surface for Apr



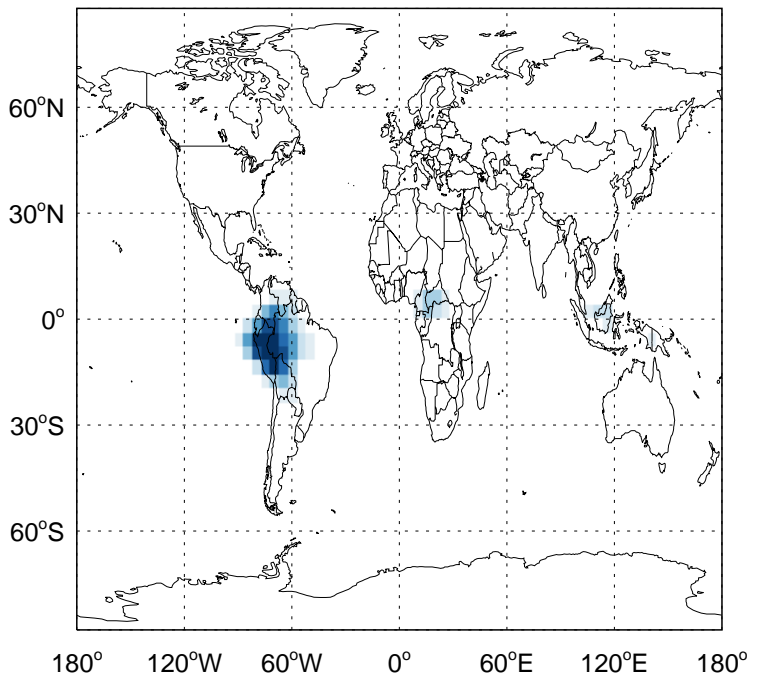
GC\_12.0.0 - v11-02f-Run1  
IEPOXA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IEPOXA - Diff @ Surface for Apr



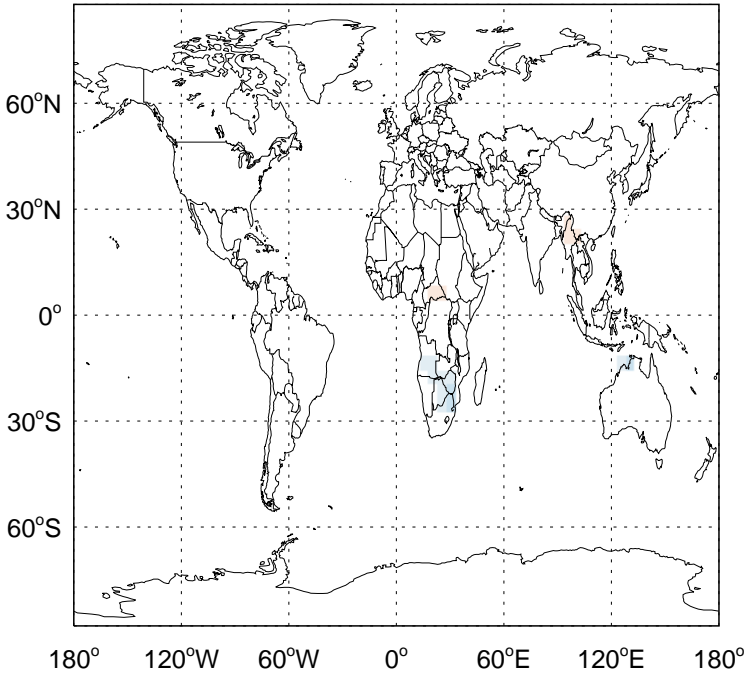
GC\_12.0.0 - v11-02e-Run1  
IEPOXA- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

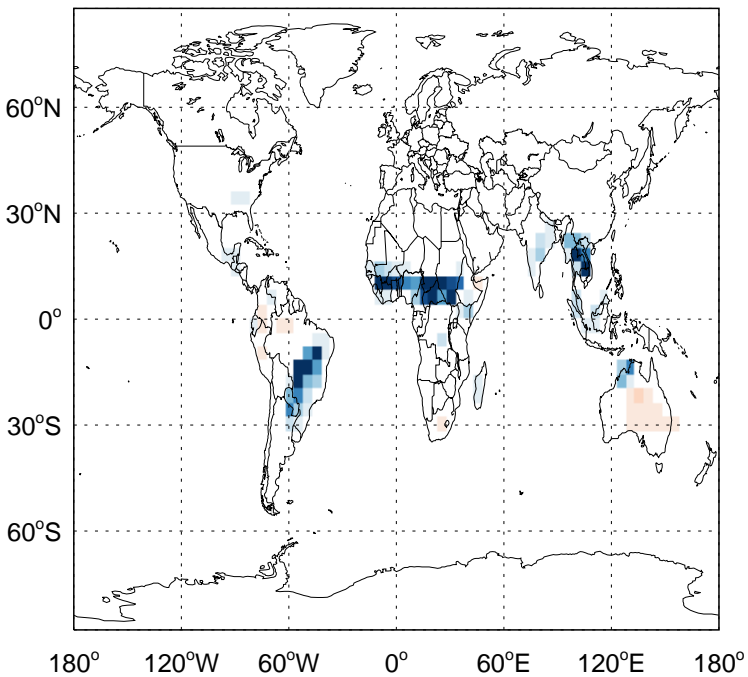
GC\_12.0.0 - v11-02f-Run1  
IEPOXB - Diff @ Surface for Apr



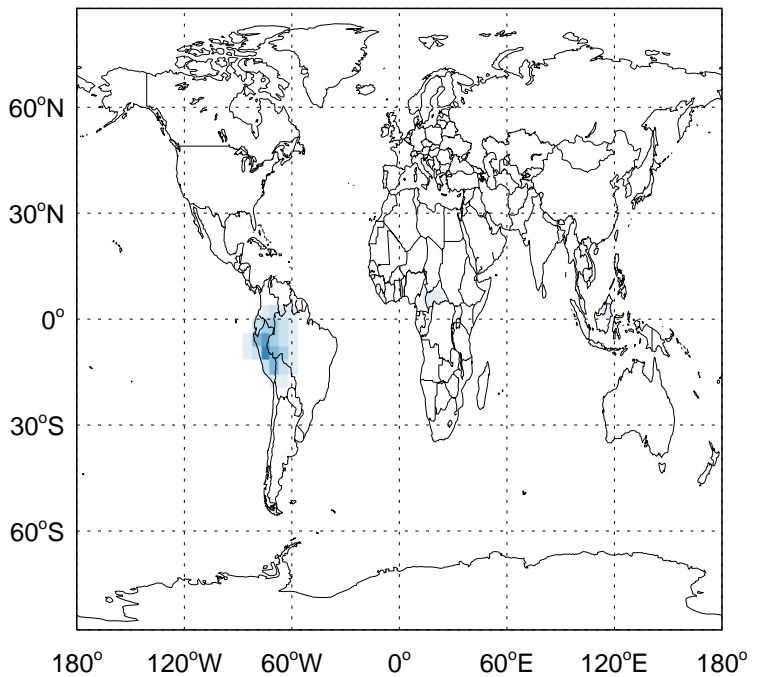
GC\_12.0.0 - v11-02f-Run1  
IEPOXB- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IEPOXB - Diff @ Surface for Apr

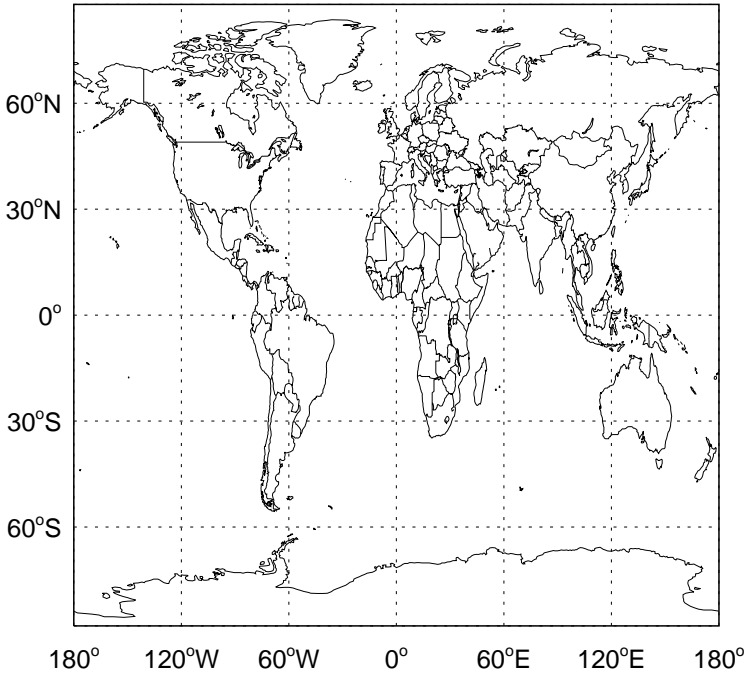


GC\_12.0.0 - v11-02e-Run1  
IEPOXB- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

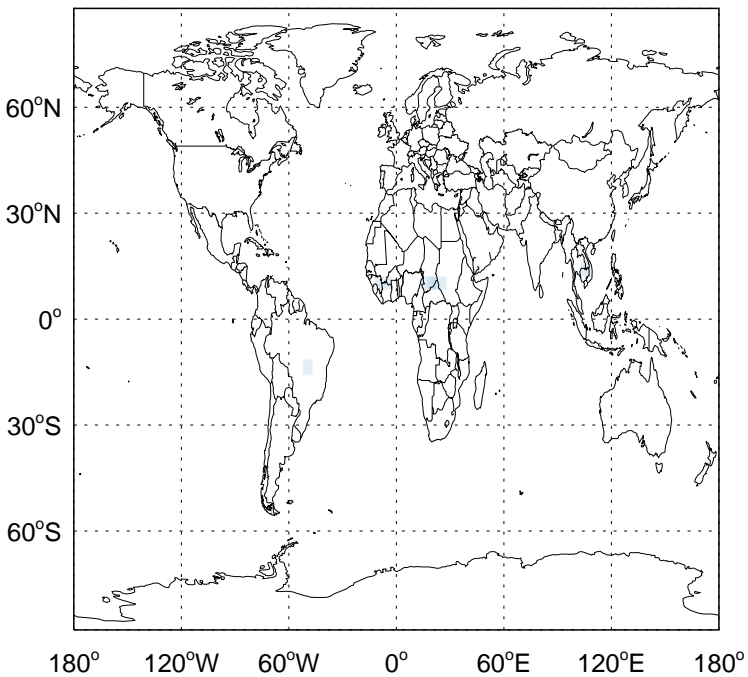
GC\_12.0.0 - v11-02f-Run1  
IEPOXD - Diff @ Surface for Apr



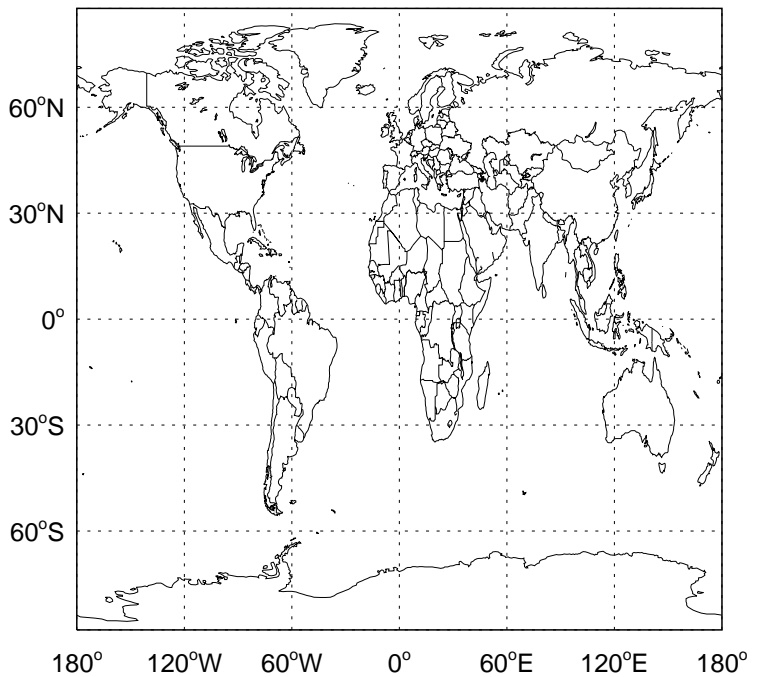
GC\_12.0.0 - v11-02f-Run1  
IEPOXD- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IEPOXD - Diff @ Surface for Apr

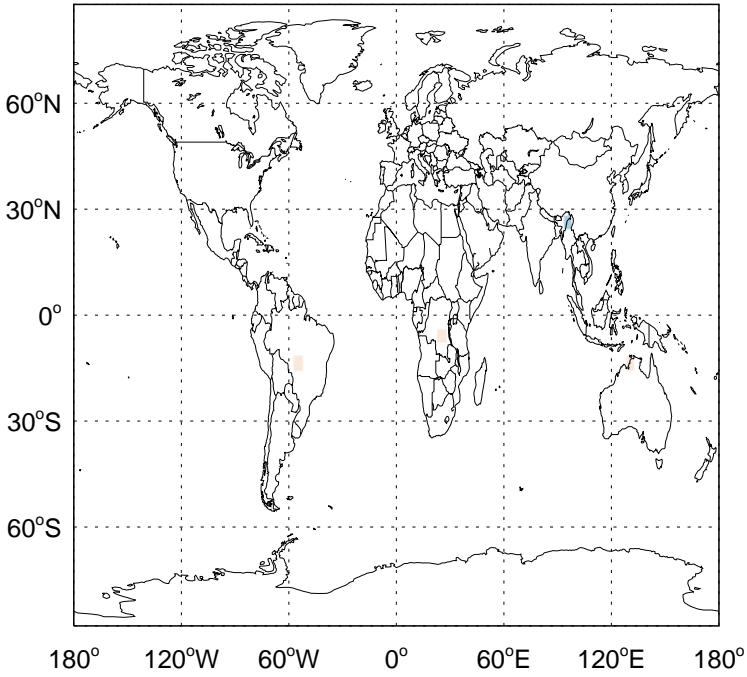


GC\_12.0.0 - v11-02e-Run1  
IEPOXD- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

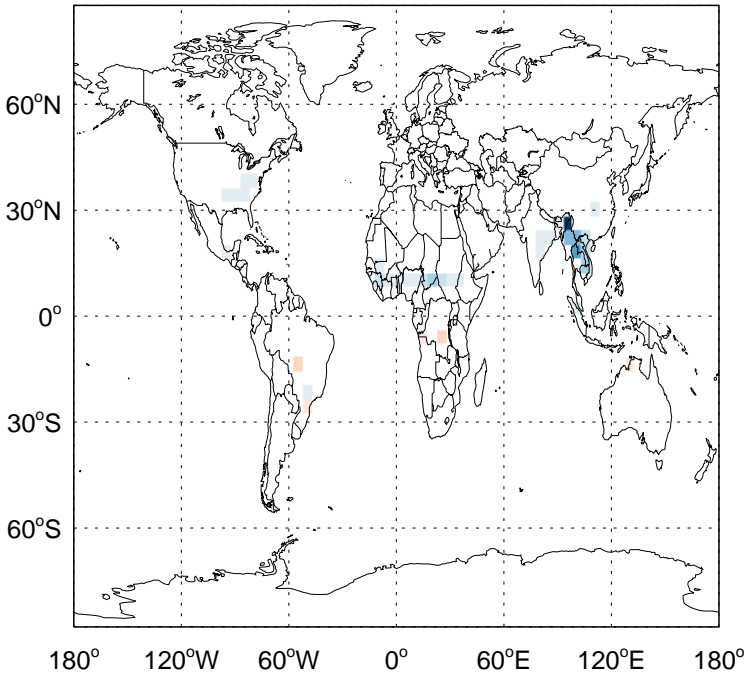
GC\_12.0.0 - v11-02f-Run1  
ISN1 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ISN1- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISN1 - Diff @ Surface for Apr

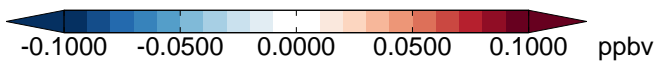
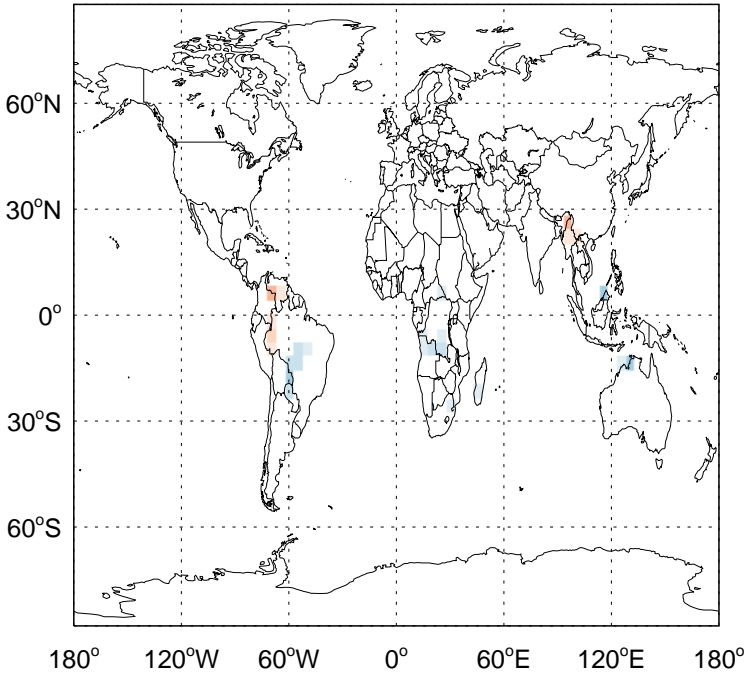


GC\_12.0.0 - v11-02e-Run1  
ISN1- Diff @ 500 hPa for Apr

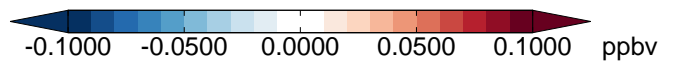


# GEOS-Chem Difference Maps at surface and 500 hPa

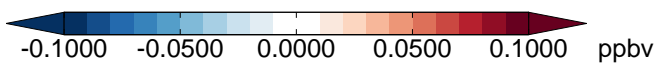
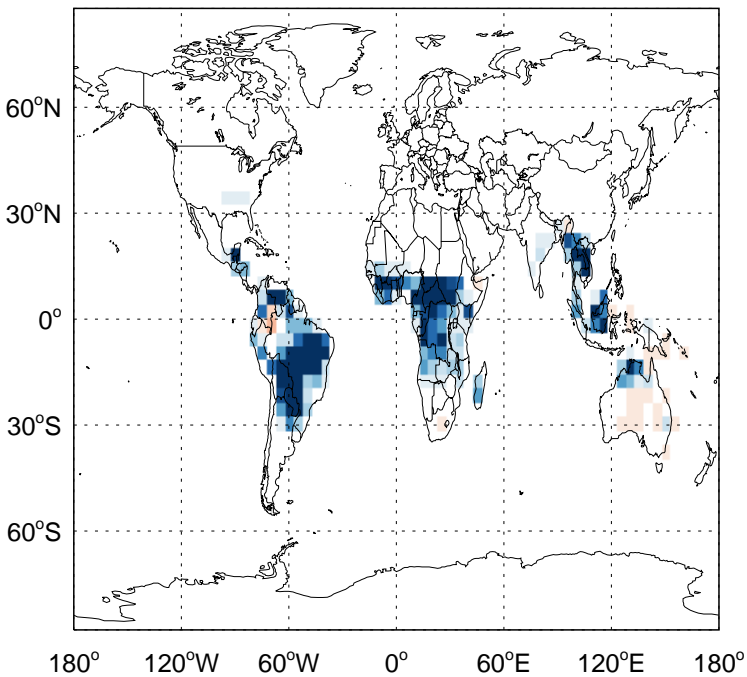
GC\_12.0.0 - v11-02f-Run1  
RIPA - Diff @ Surface for Apr



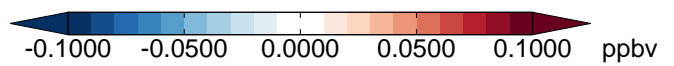
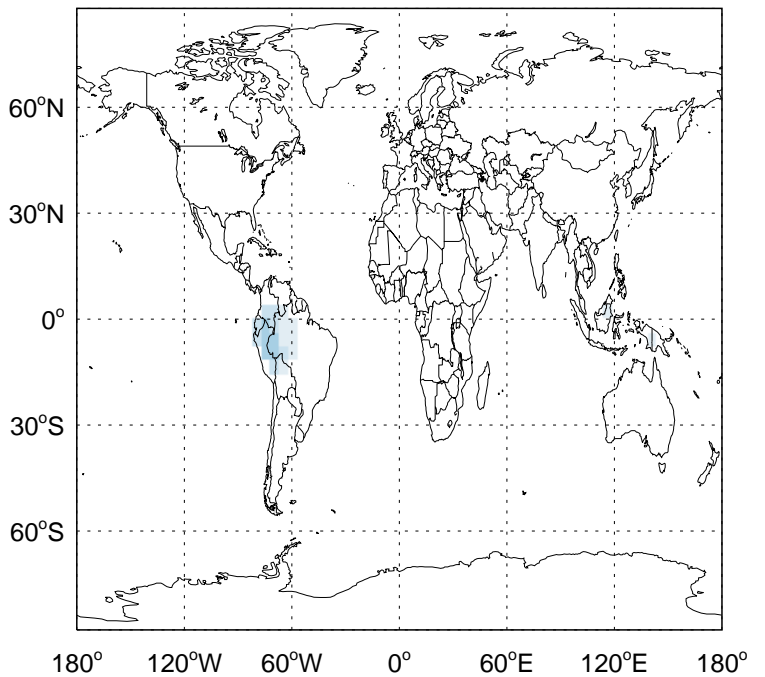
GC\_12.0.0 - v11-02f-Run1  
RIPA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
RIPA - Diff @ Surface for Apr

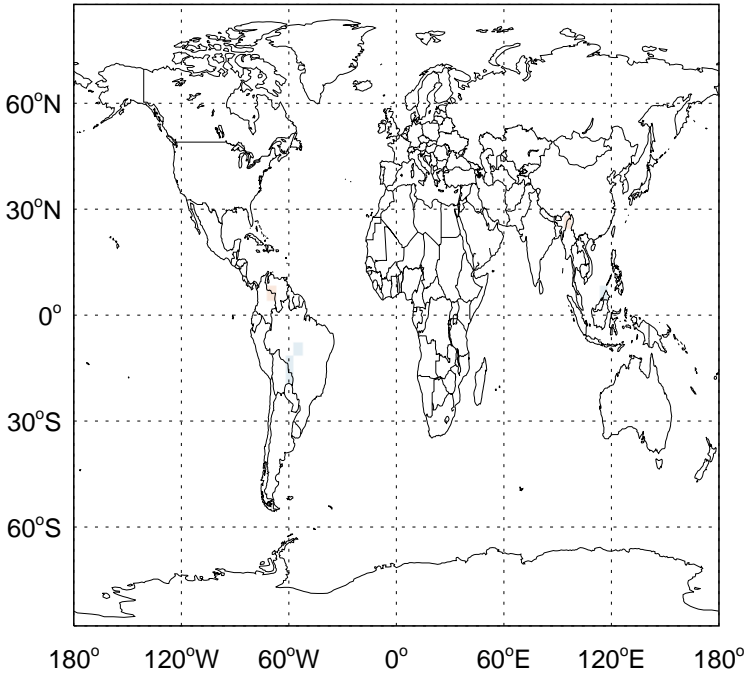


GC\_12.0.0 - v11-02e-Run1  
RIPA- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

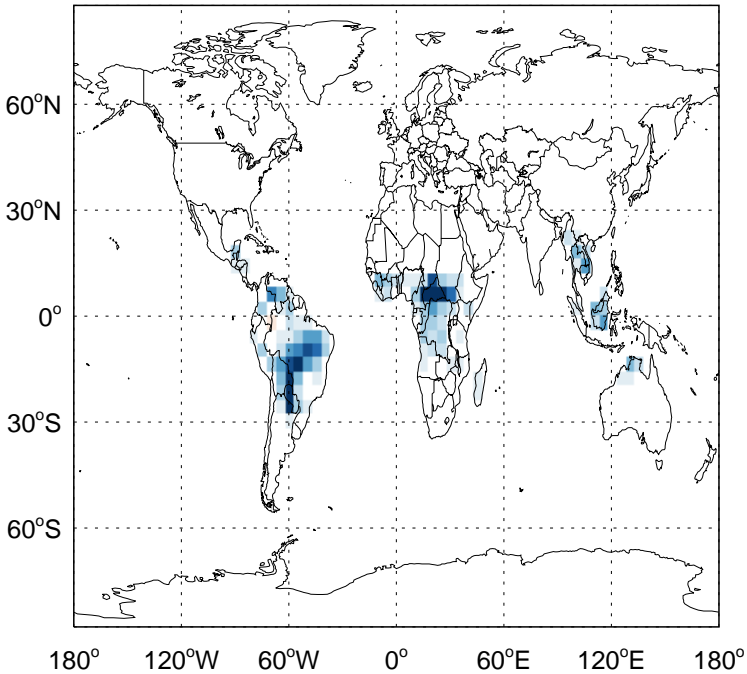
GC\_12.0.0 - v11-02f-Run1  
RIPB - Diff @ Surface for Apr



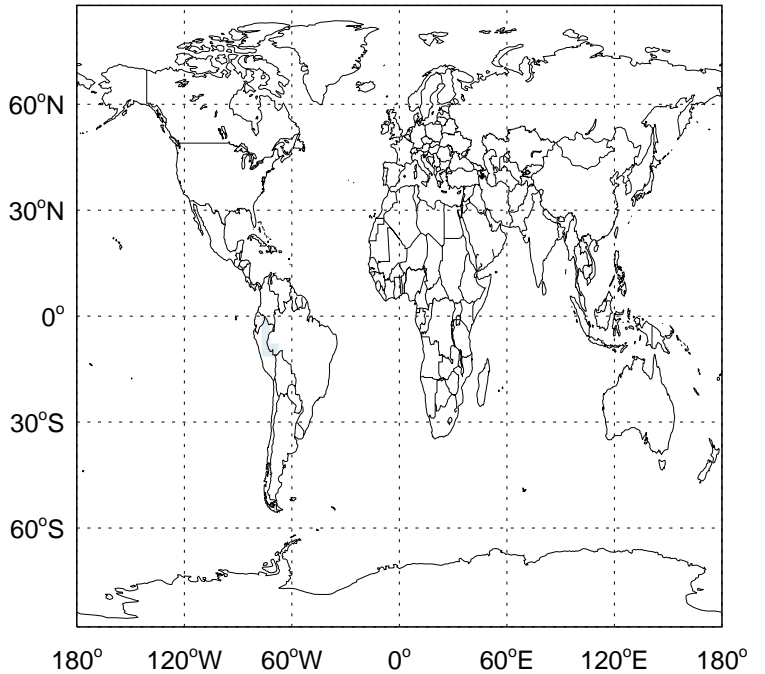
GC\_12.0.0 - v11-02f-Run1  
RIPB- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
RIPB - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
RIPB- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

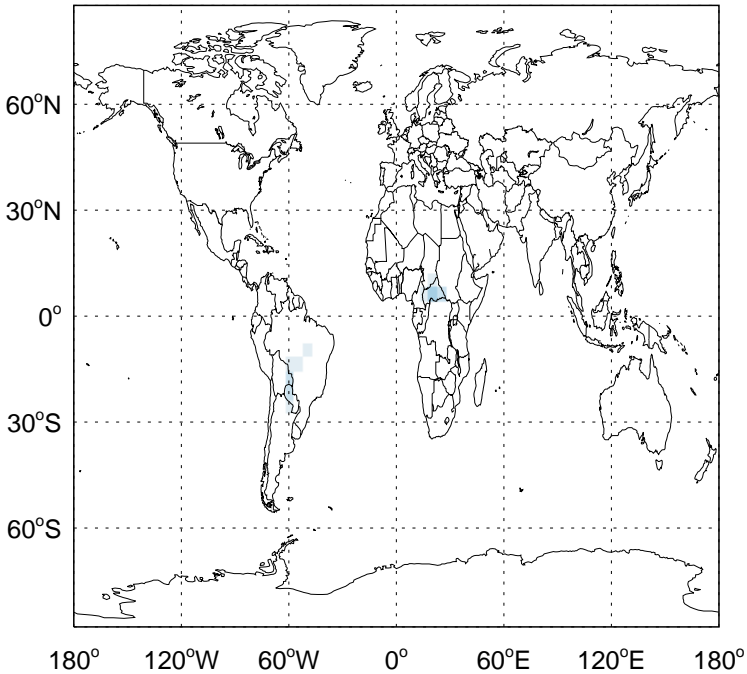
GC\_12.0.0 - v11-02f-Run1  
RIPD - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
RIPD- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
RIPD - Diff @ Surface for Apr

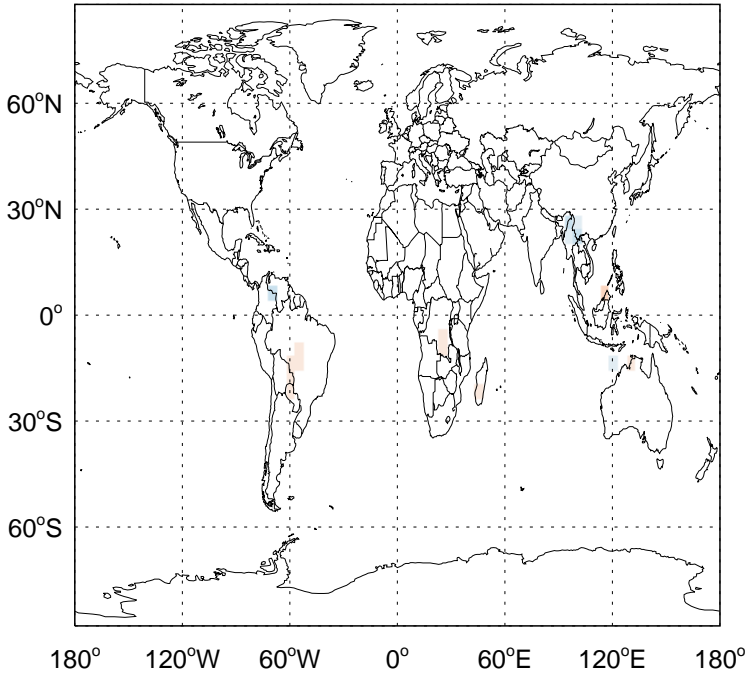


GC\_12.0.0 - v11-02e-Run1  
RIPD- Diff @ 500 hPa for Apr

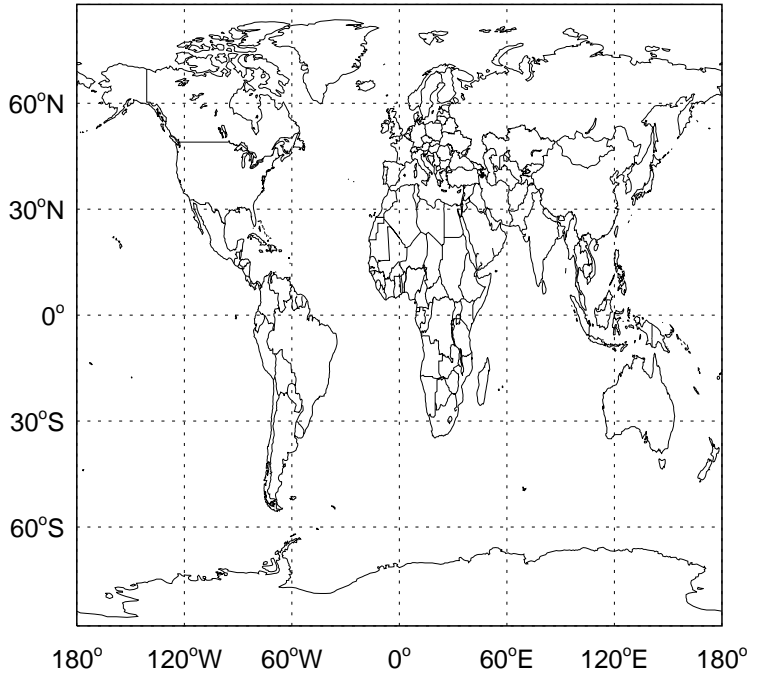


# GEOS-Chem Difference Maps at surface and 500 hPa

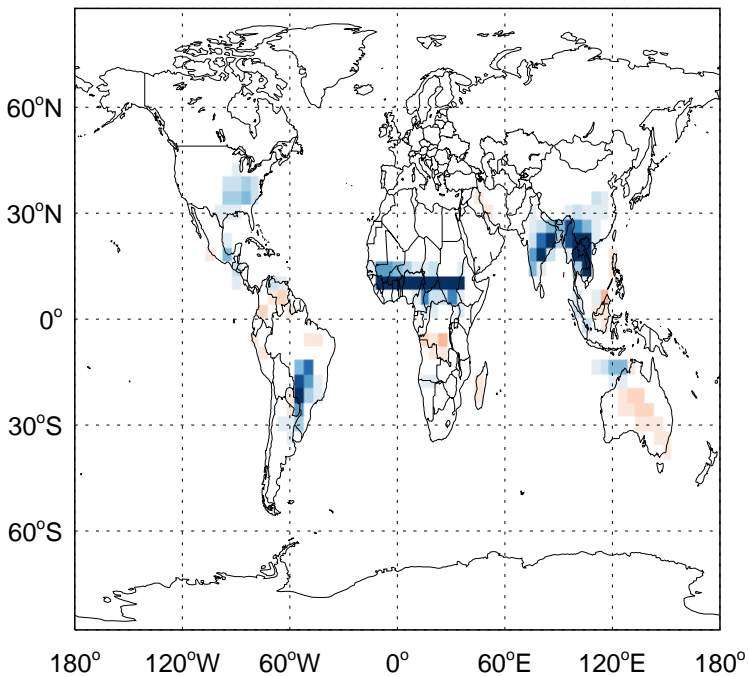
GC\_12.0.0 - v11-02f-Run1  
IMAE - Diff @ Surface for Apr



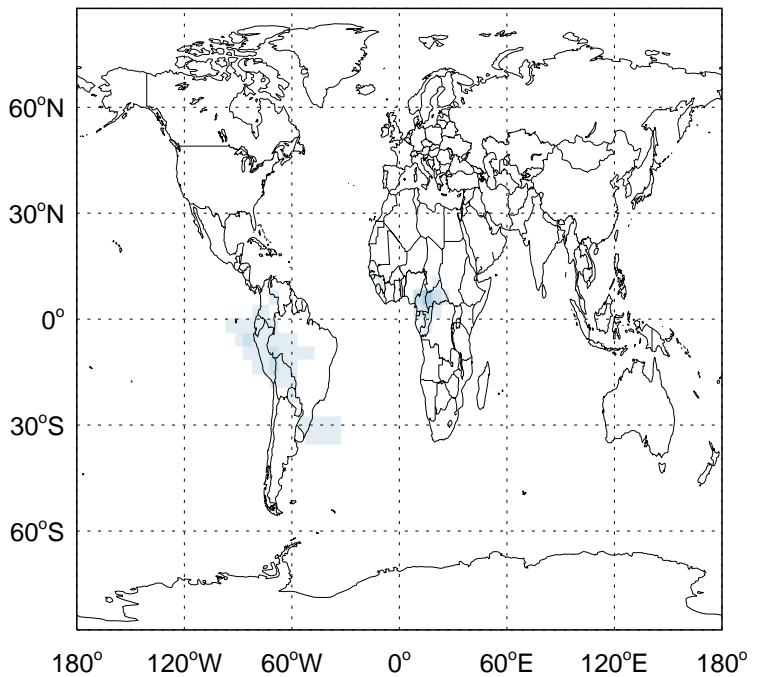
GC\_12.0.0 - v11-02f-Run1  
IMAE- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IMAE - Diff @ Surface for Apr

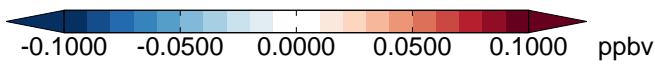
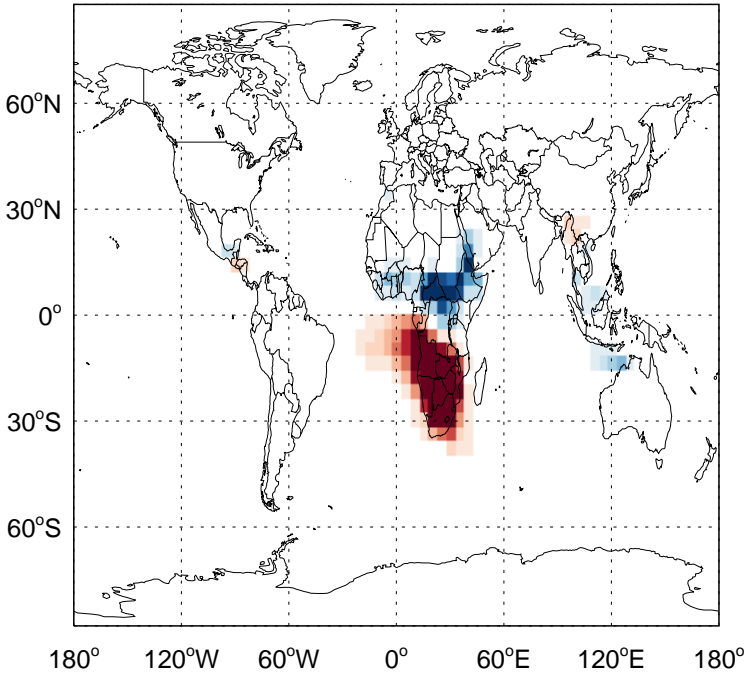


GC\_12.0.0 - v11-02e-Run1  
IMAE- Diff @ 500 hPa for Apr

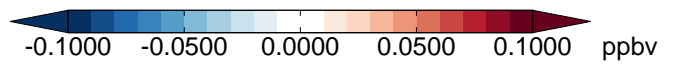


# GEOS-Chem Difference Maps at surface and 500 hPa

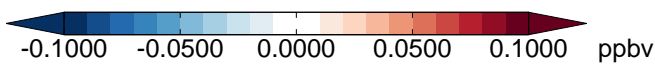
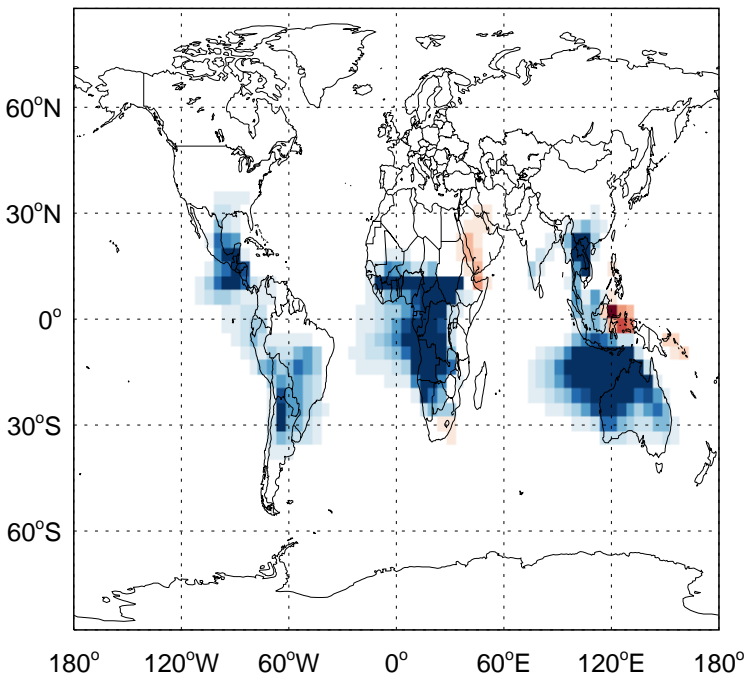
GC\_12.0.0 - v11-02f-Run1  
SOAIE - Diff @ Surface for Apr



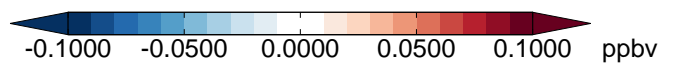
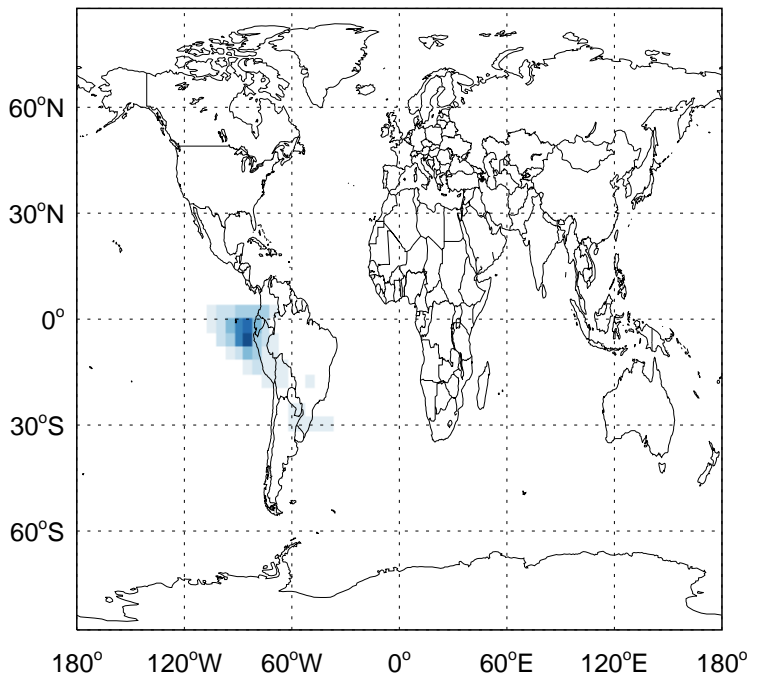
GC\_12.0.0 - v11-02f-Run1  
SOAIE- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAIE - Diff @ Surface for Apr



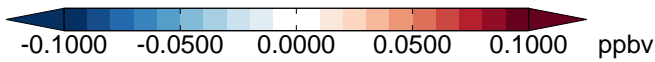
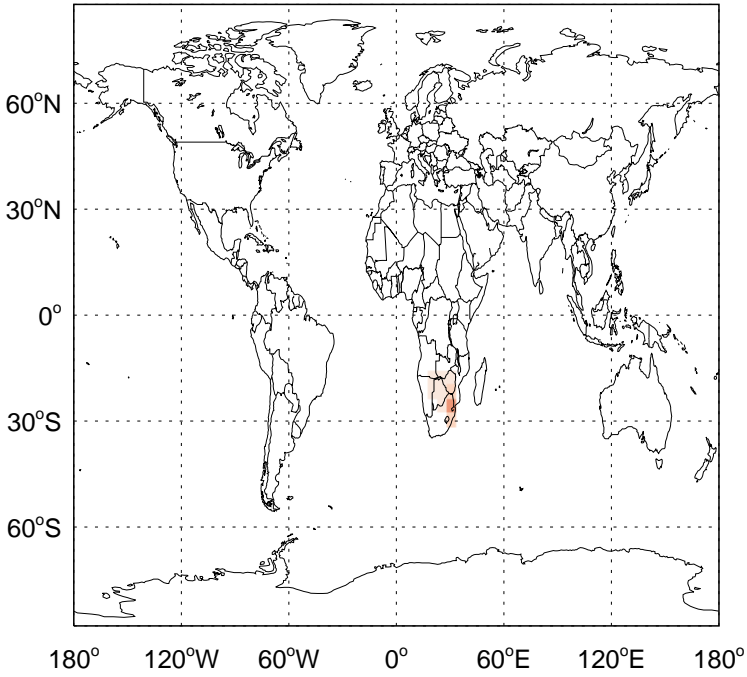
GC\_12.0.0 - v11-02e-Run1  
SOAIE- Diff @ 500 hPa for Apr



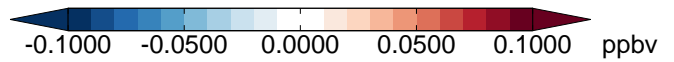


# GEOS-Chem Difference Maps at surface and 500 hPa

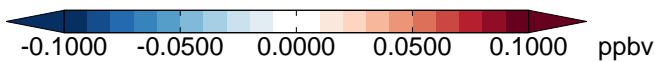
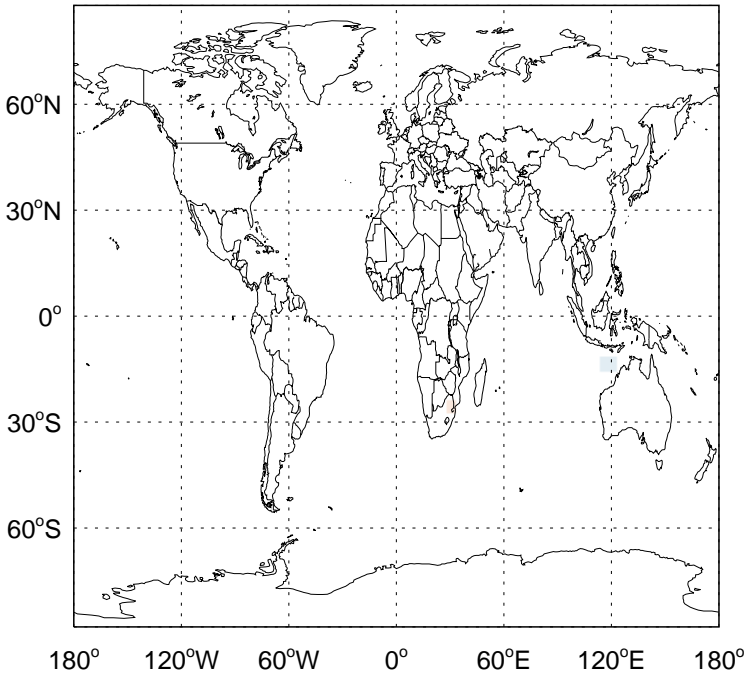
GC\_12.0.0 - v11-02f-Run1  
SOAME - Diff @ Surface for Apr



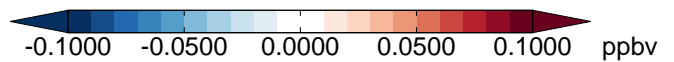
GC\_12.0.0 - v11-02f-Run1  
SOAME- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAME - Diff @ Surface for Apr

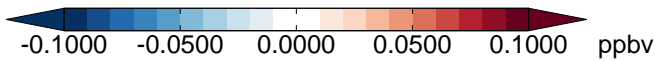
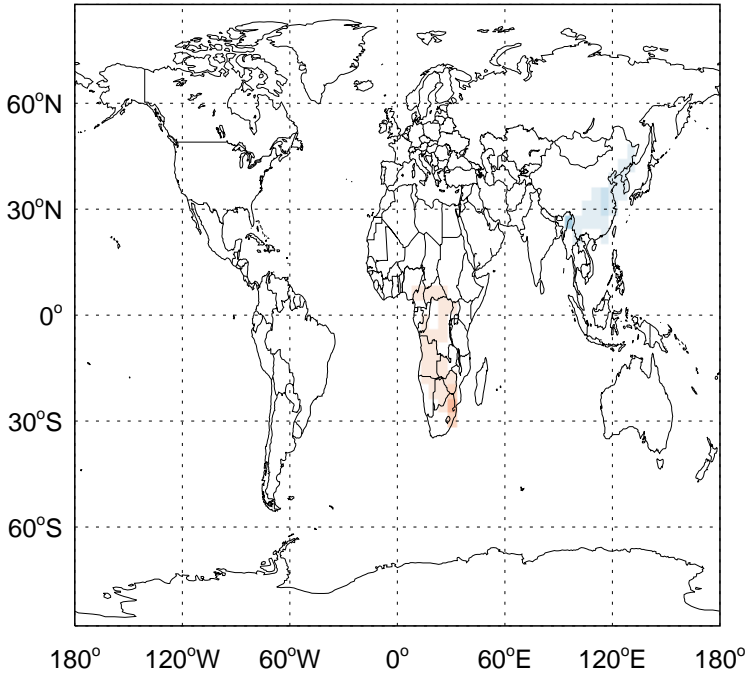


GC\_12.0.0 - v11-02e-Run1  
SOAME- Diff @ 500 hPa for Apr

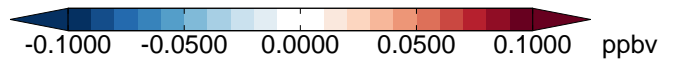


# GEOS-Chem Difference Maps at surface and 500 hPa

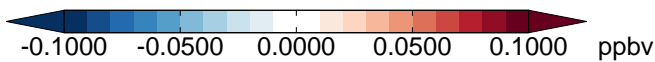
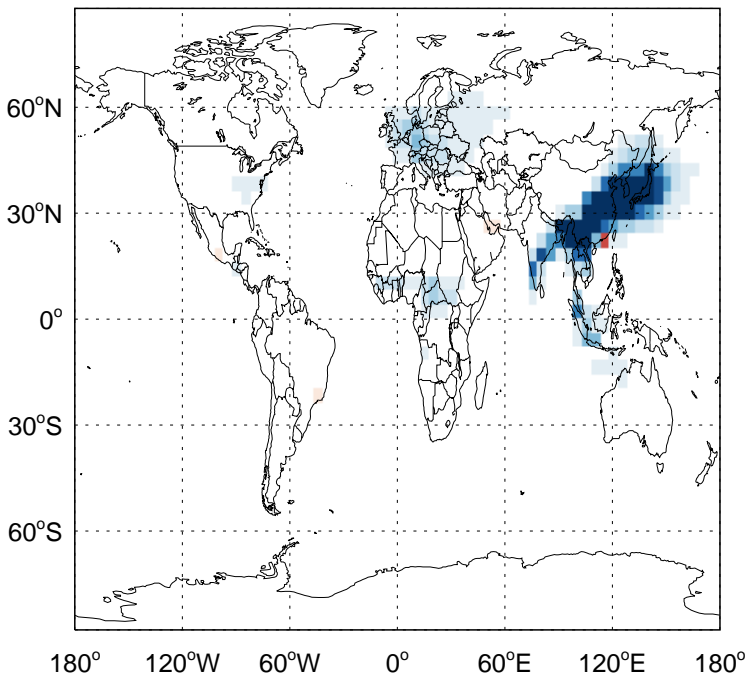
GC\_12.0.0 - v11-02f-Run1  
SOAGX - Diff @ Surface for Apr



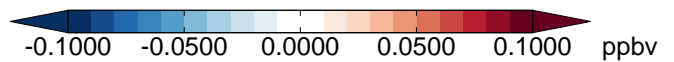
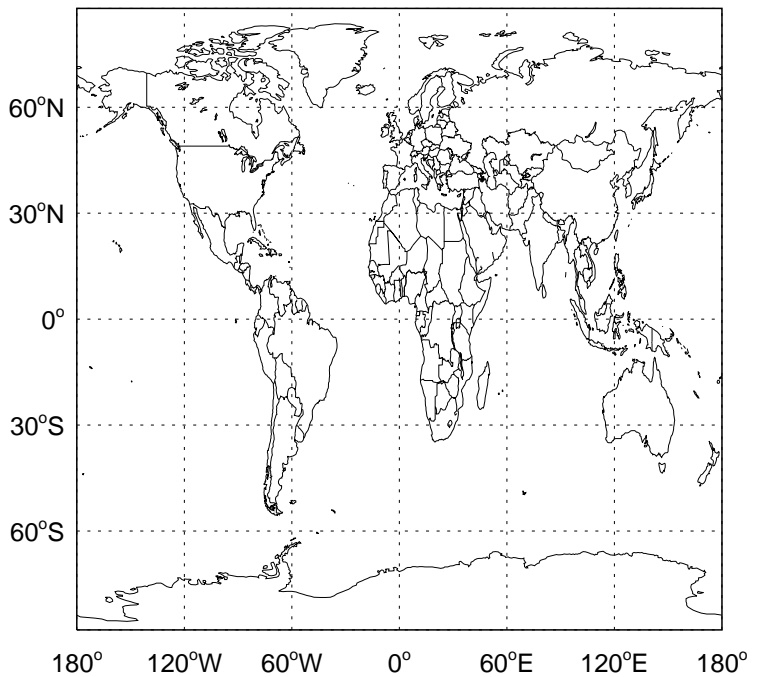
GC\_12.0.0 - v11-02f-Run1  
SOAGX- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAGX - Diff @ Surface for Apr

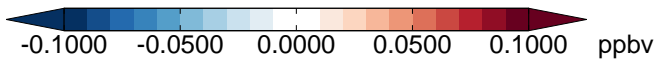
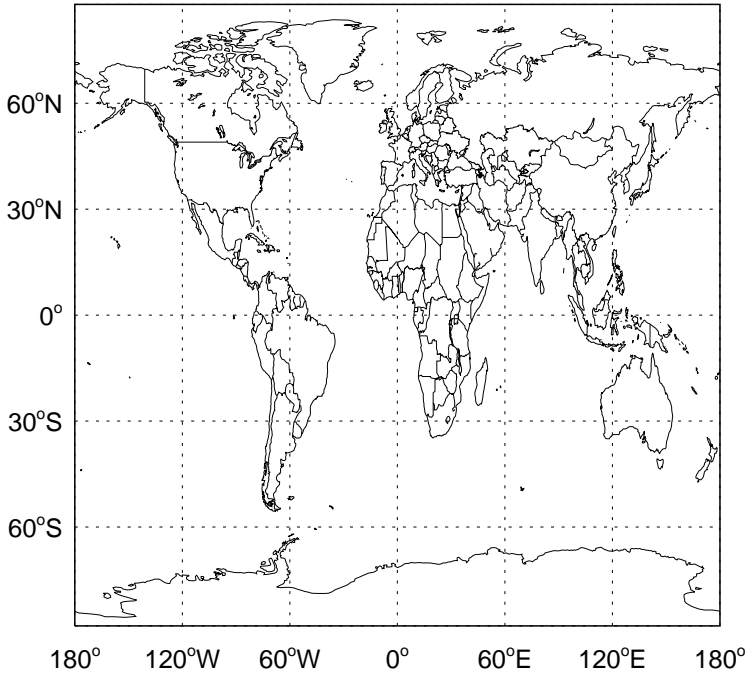


GC\_12.0.0 - v11-02e-Run1  
SOAGX- Diff @ 500 hPa for Apr

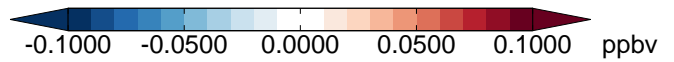


# GEOS-Chem Difference Maps at surface and 500 hPa

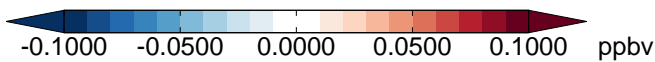
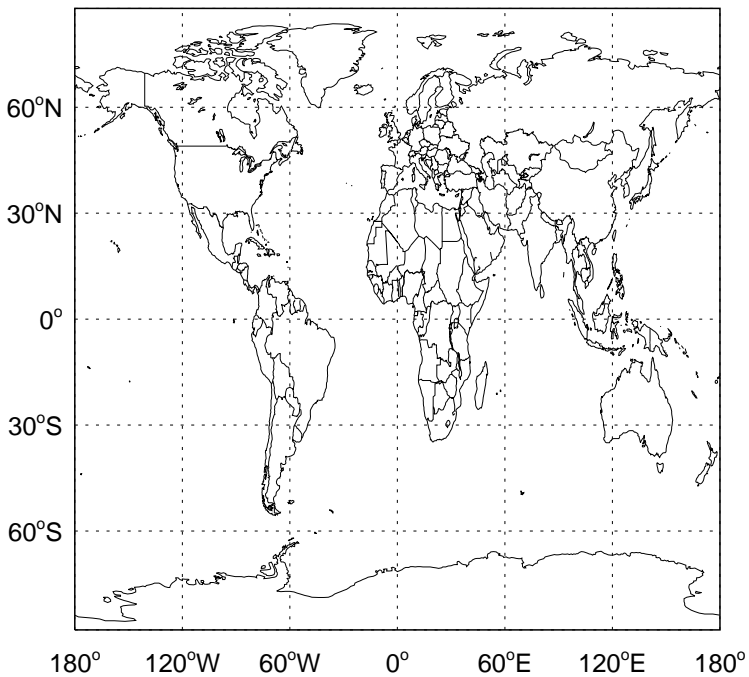
GC\_12.0.0 - v11-02f-Run1  
SOAMG - Diff @ Surface for Apr



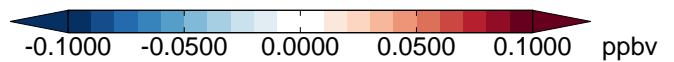
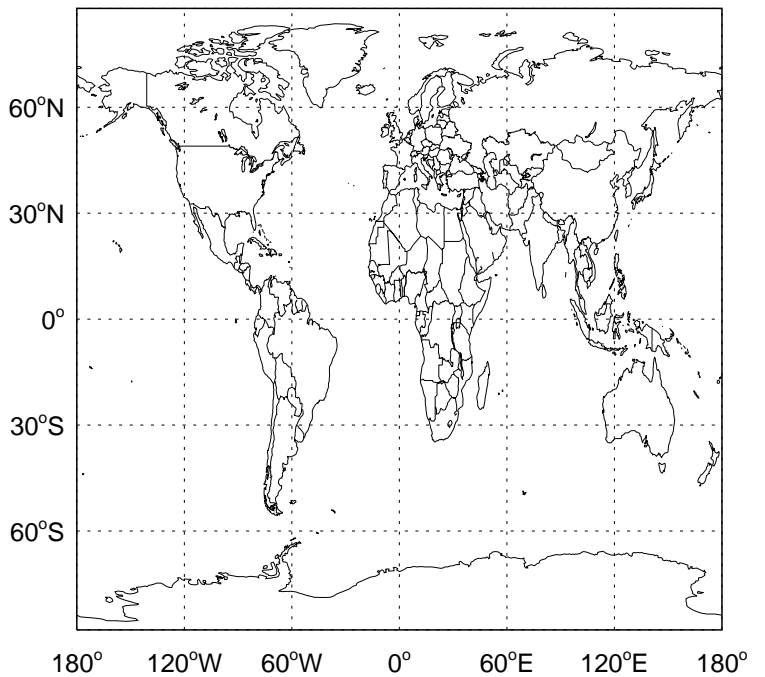
GC\_12.0.0 - v11-02f-Run1  
SOAMG- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
SOAMG - Diff @ Surface for Apr

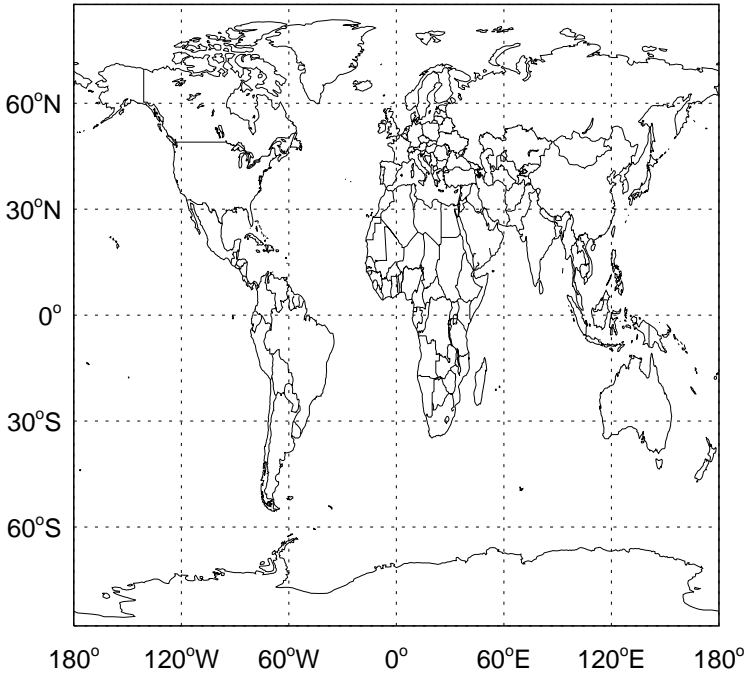


GC\_12.0.0 - v11-02e-Run1  
SOAMG- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

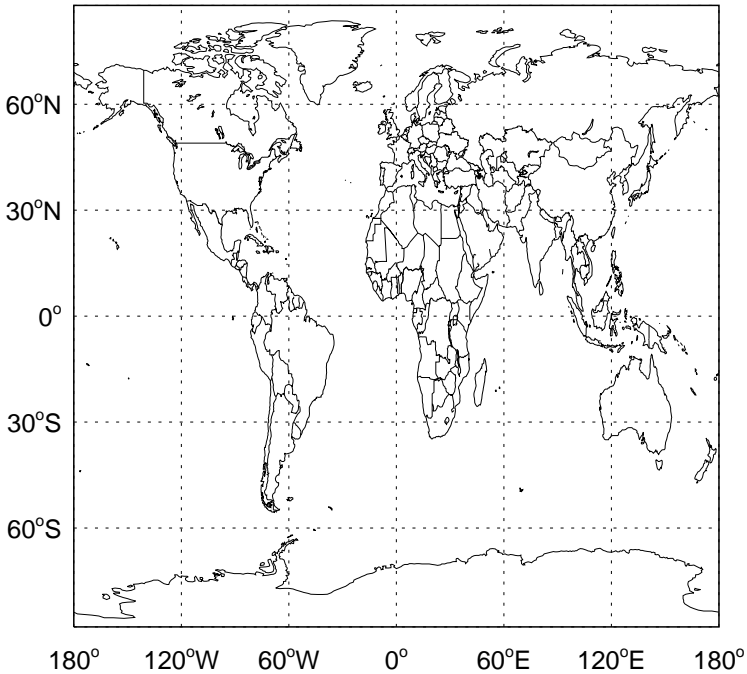
GC\_12.0.0 - v11-02f-Run1  
LVOC - Diff @ Surface for Apr



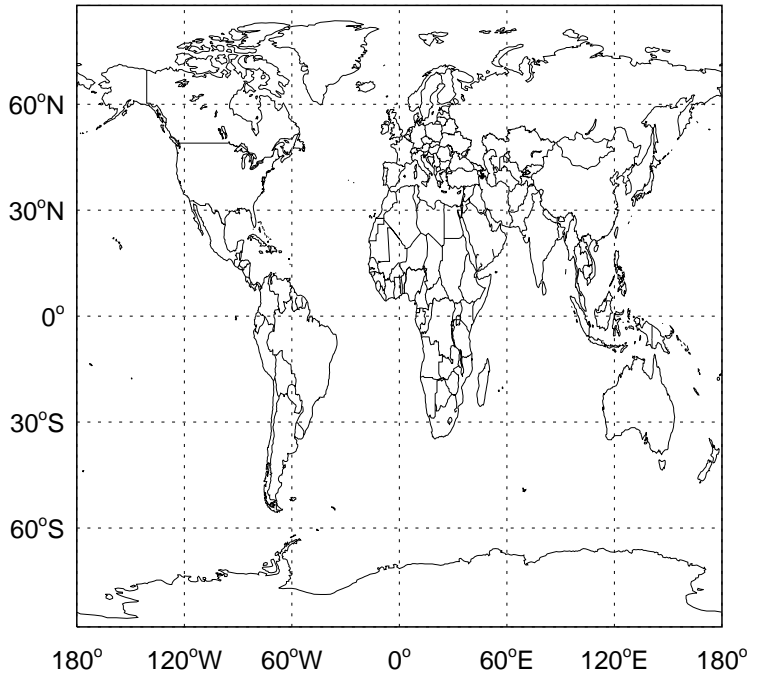
GC\_12.0.0 - v11-02f-Run1  
LVOC- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
LVOC - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
LVOC- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

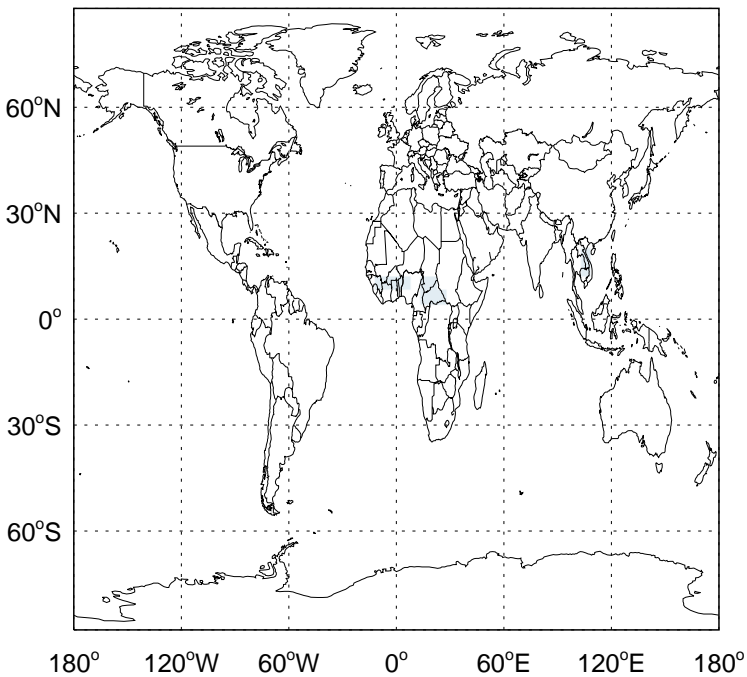
GC\_12.0.0 - v11-02f-Run1  
LVOCOA - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
LVOCOA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
LVOCOA - Diff @ Surface for Apr

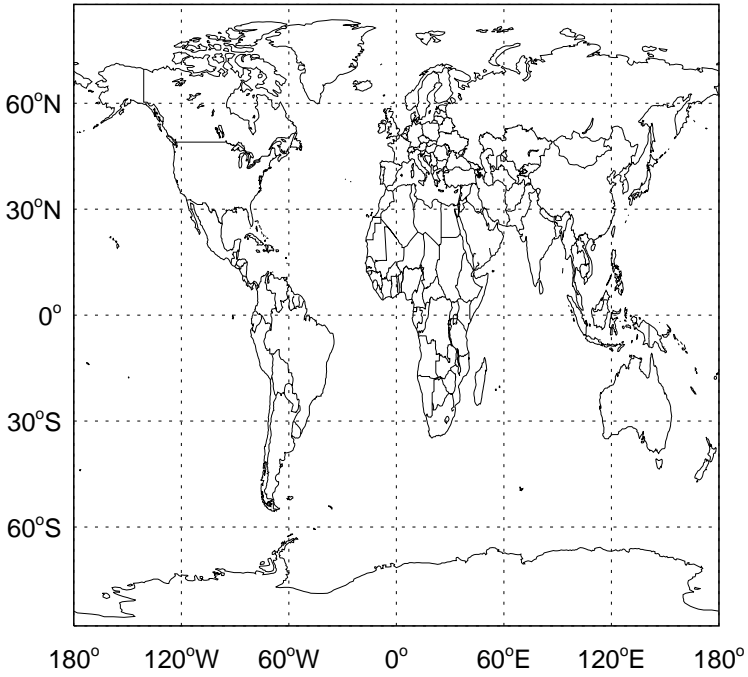


GC\_12.0.0 - v11-02e-Run1  
LVOCOA- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

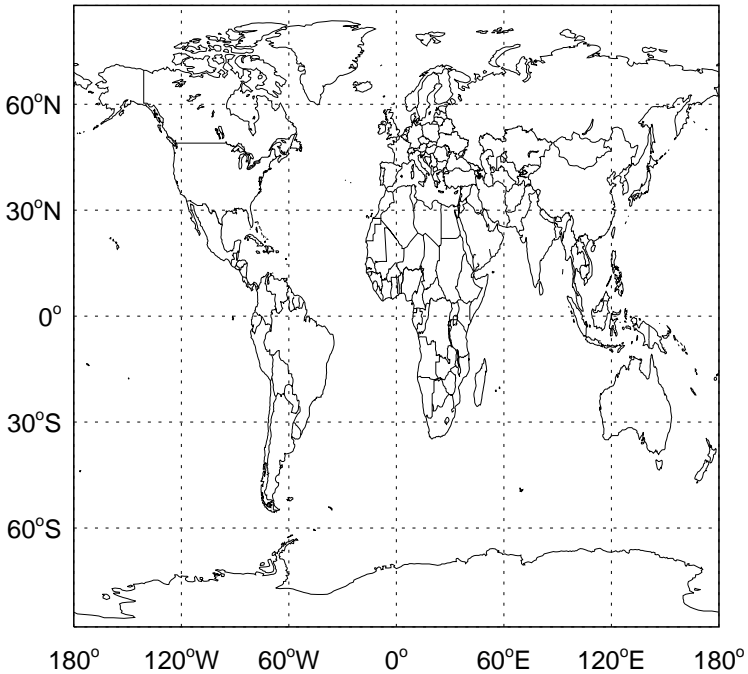
GC\_12.0.0 - v11-02f-Run1  
ISN1OG - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ISN1OG- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISN1OG - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
ISN1OG- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

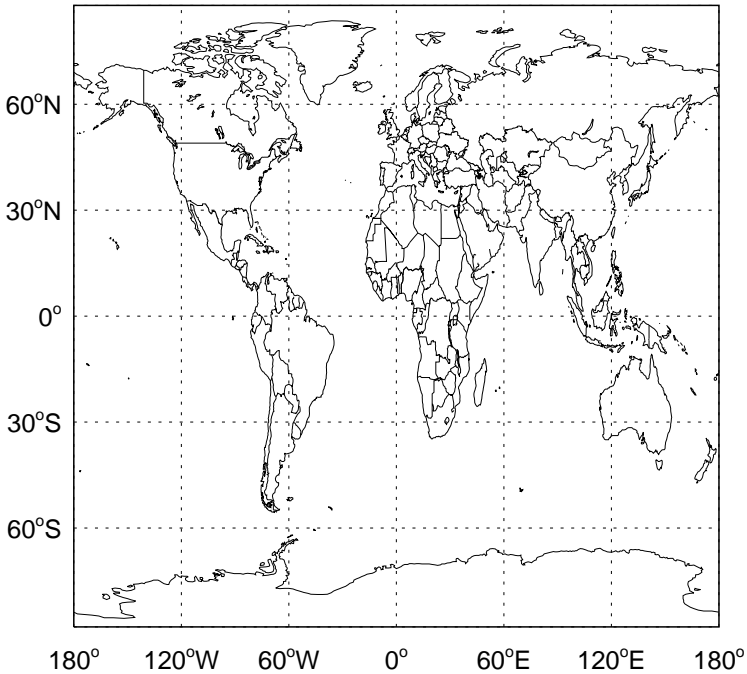
GC\_12.0.0 - v11-02f-Run1  
ISN1OA - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
ISN1OA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ISN1OA - Diff @ Surface for Apr

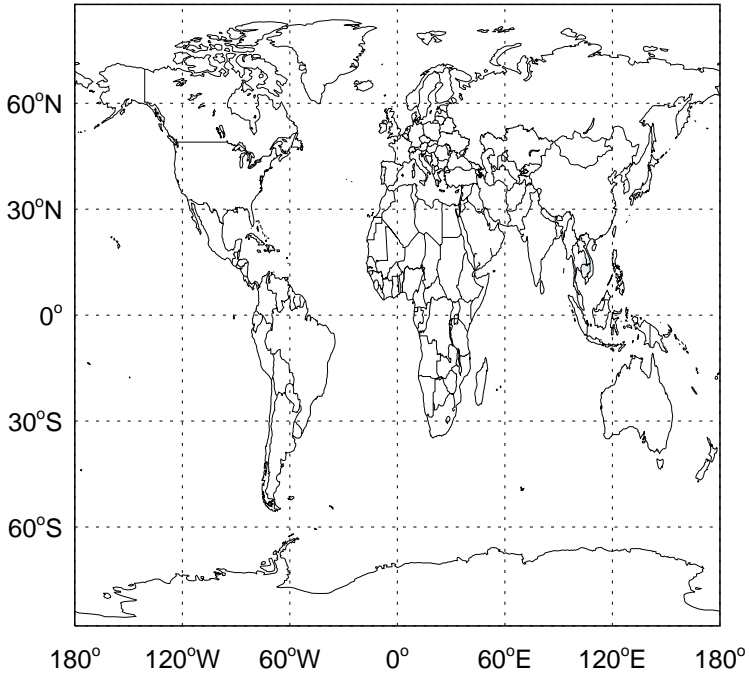


GC\_12.0.0 - v11-02e-Run1  
ISN1OA- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

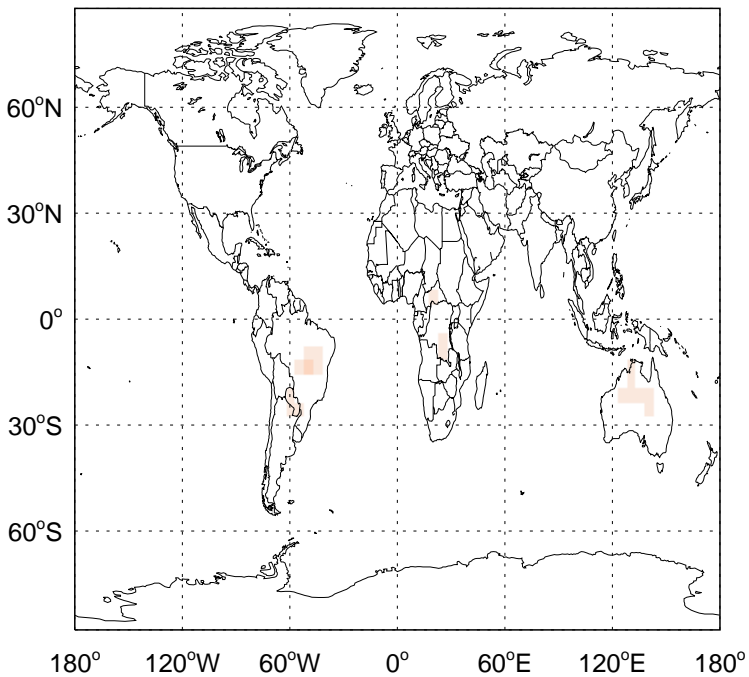
GC\_12.0.0 - v11-02f-Run1  
MONITS - Diff @ Surface for Apr



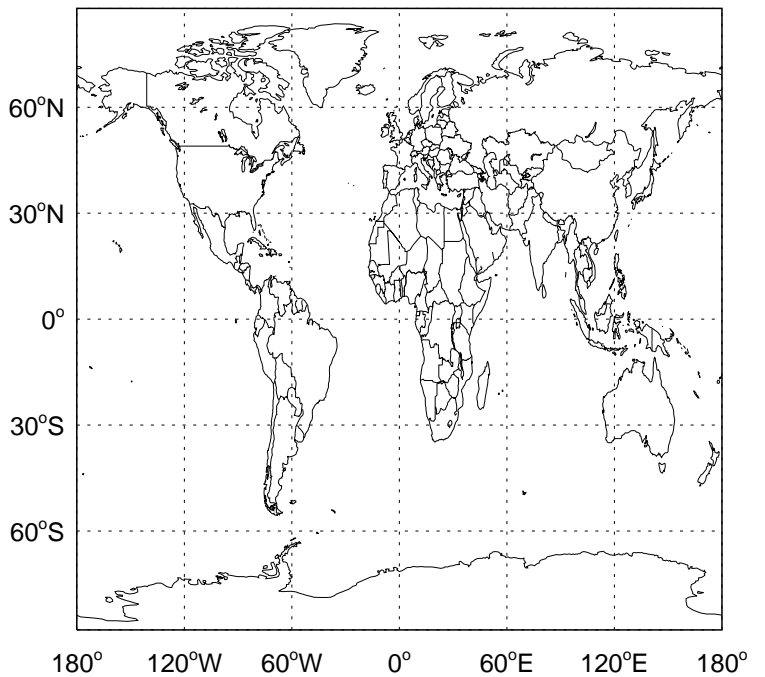
GC\_12.0.0 - v11-02f-Run1  
MONITS- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MONITS - Diff @ Surface for Apr



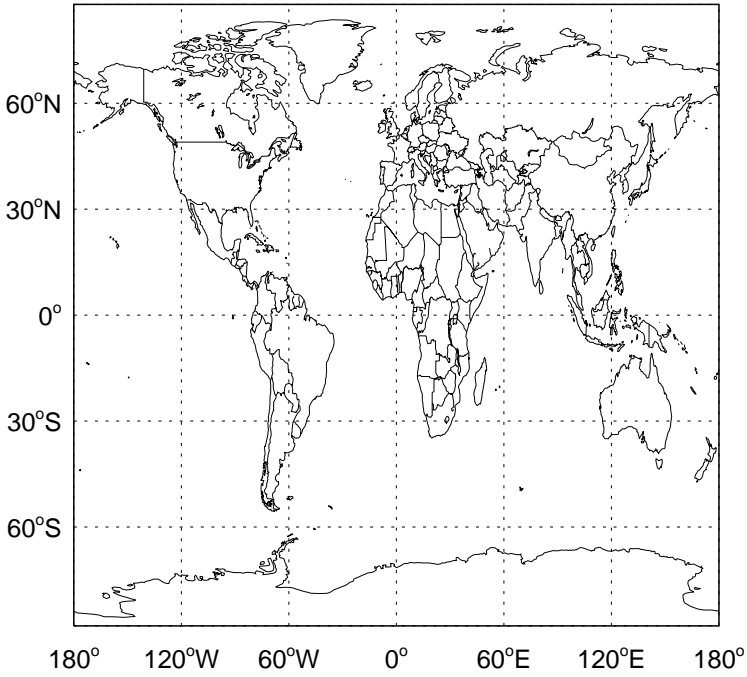
GC\_12.0.0 - v11-02e-Run1  
MONITS- Diff @ 500 hPa for Apr



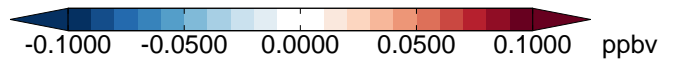


# GEOS-Chem Difference Maps at surface and 500 hPa

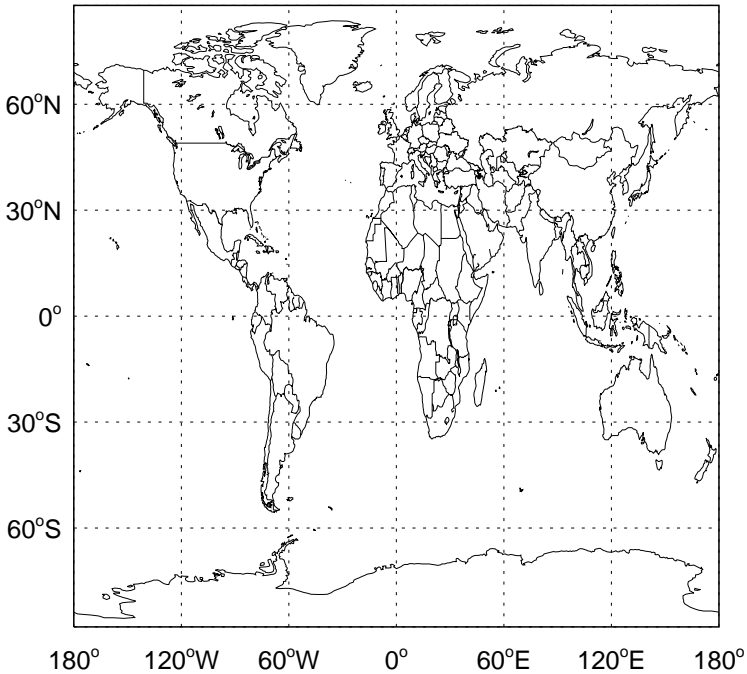
GC\_12.0.0 - v11-02f-Run1  
MONITU - Diff @ Surface for Apr



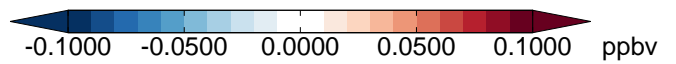
GC\_12.0.0 - v11-02f-Run1  
MONITU- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MONITU - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
MONITU- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

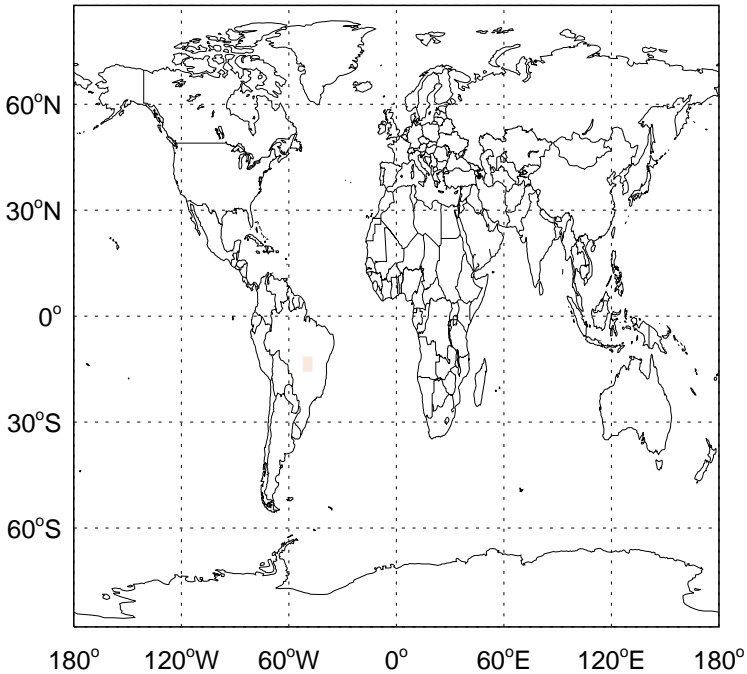
GC\_12.0.0 - v11-02f-Run1  
HONIT - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
HONIT- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HONIT - Diff @ Surface for Apr

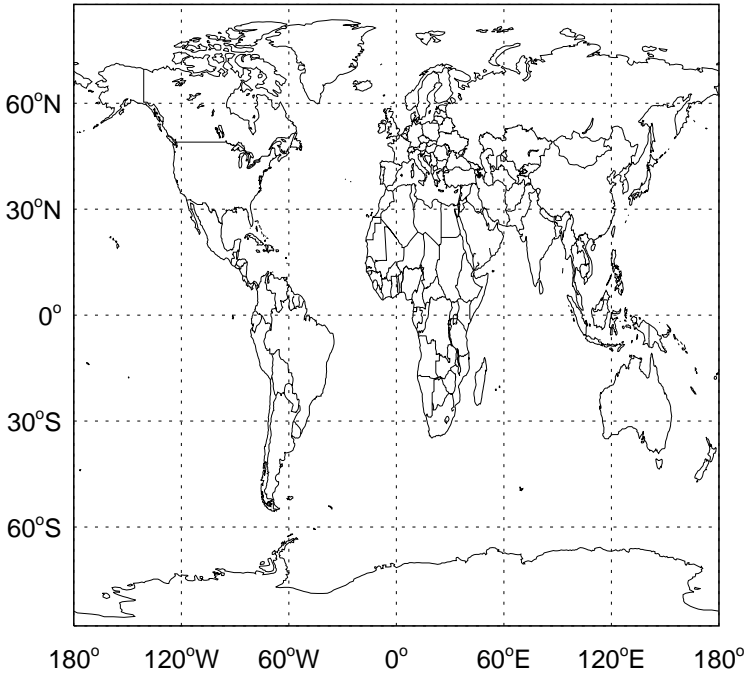


GC\_12.0.0 - v11-02e-Run1  
HONIT- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

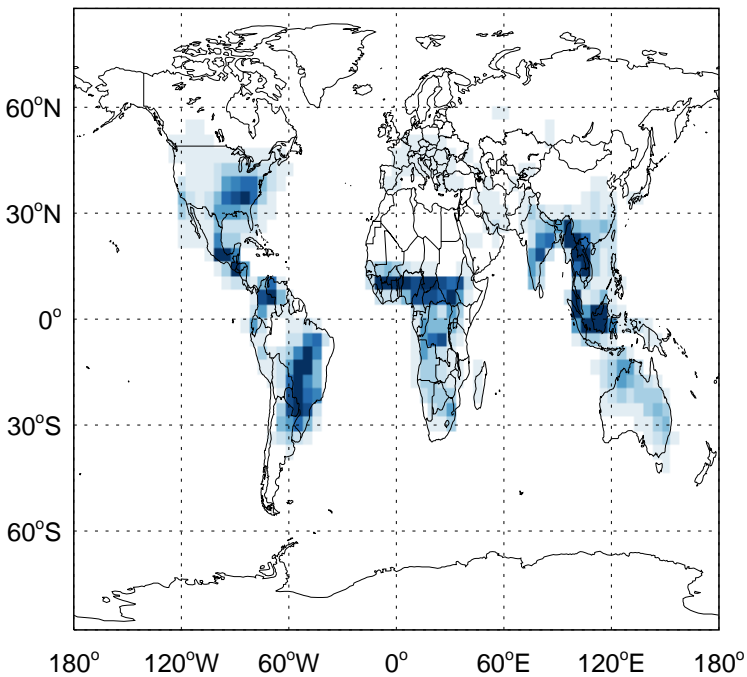
GC\_12.0.0 - v11-02f-Run1  
IONITA - Diff @ Surface for Apr



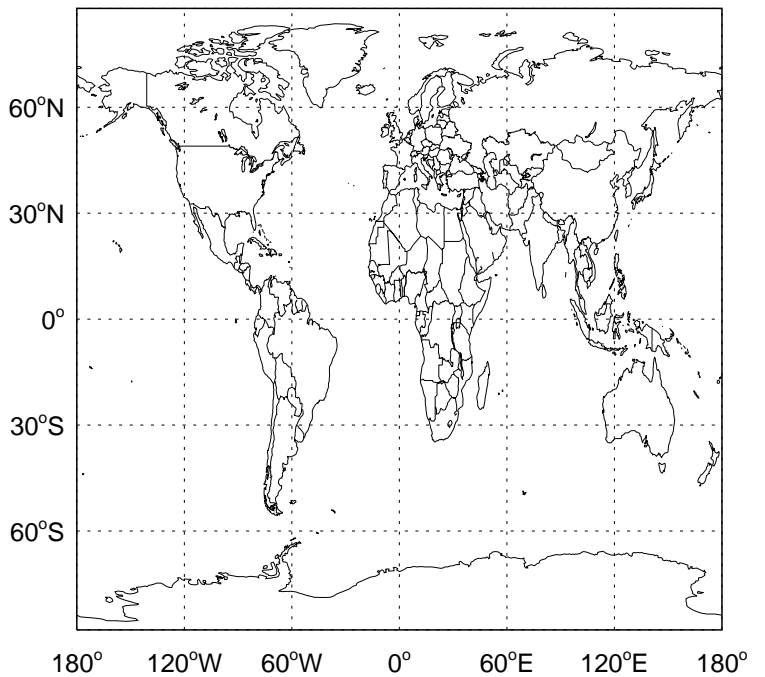
GC\_12.0.0 - v11-02f-Run1  
IONITA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IONITA - Diff @ Surface for Apr

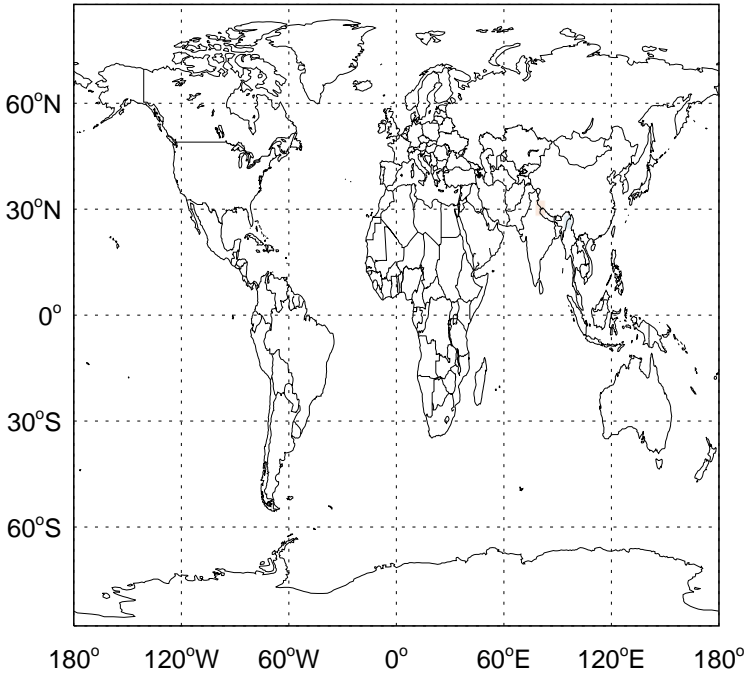


GC\_12.0.0 - v11-02e-Run1  
IONITA- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

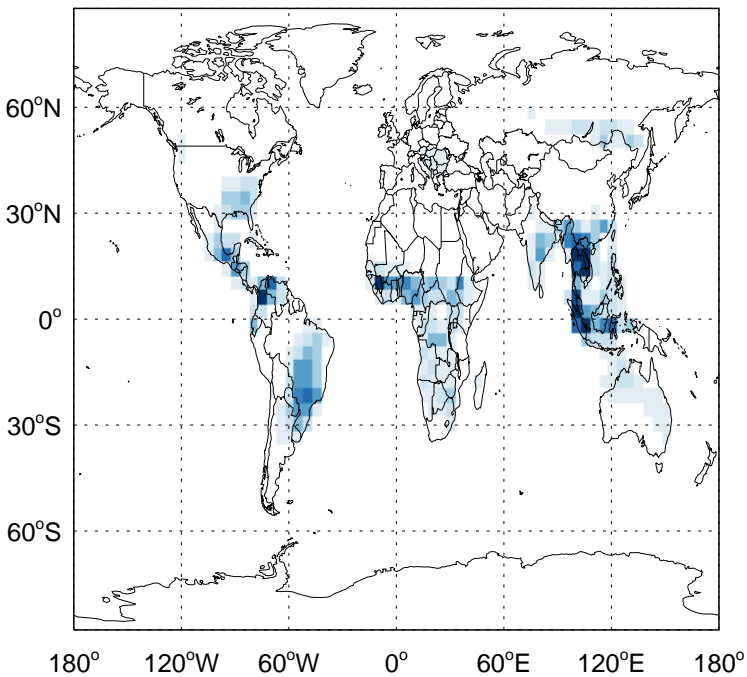
GC\_12.0.0 - v11-02f-Run1  
MONITA - Diff @ Surface for Apr



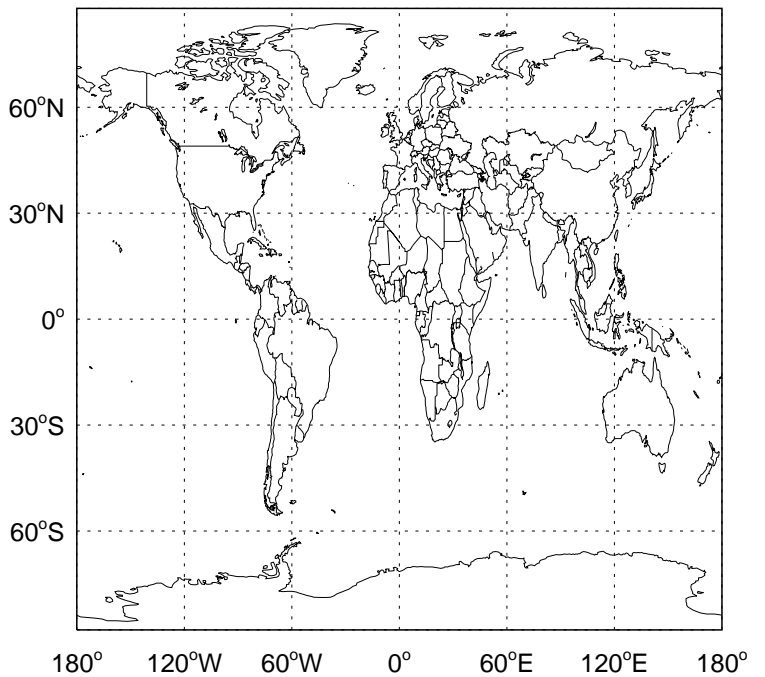
GC\_12.0.0 - v11-02f-Run1  
MONITA- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
MONITA - Diff @ Surface for Apr

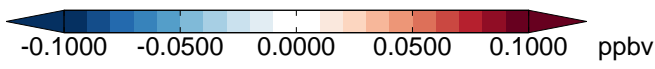
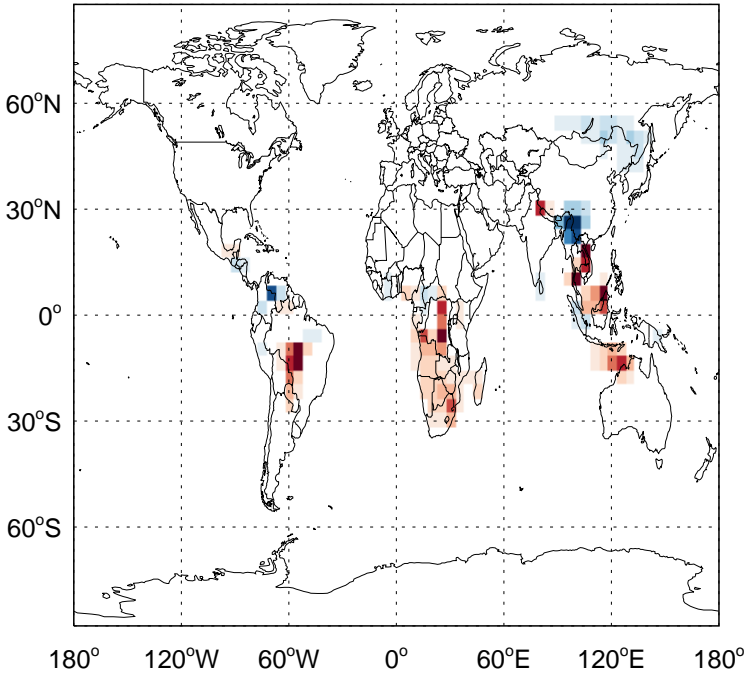


GC\_12.0.0 - v11-02e-Run1  
MONITA- Diff @ 500 hPa for Apr

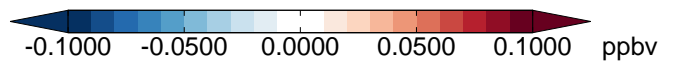


# GEOS-Chem Difference Maps at surface and 500 hPa

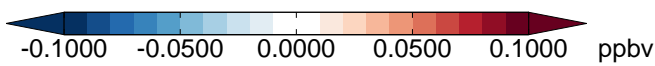
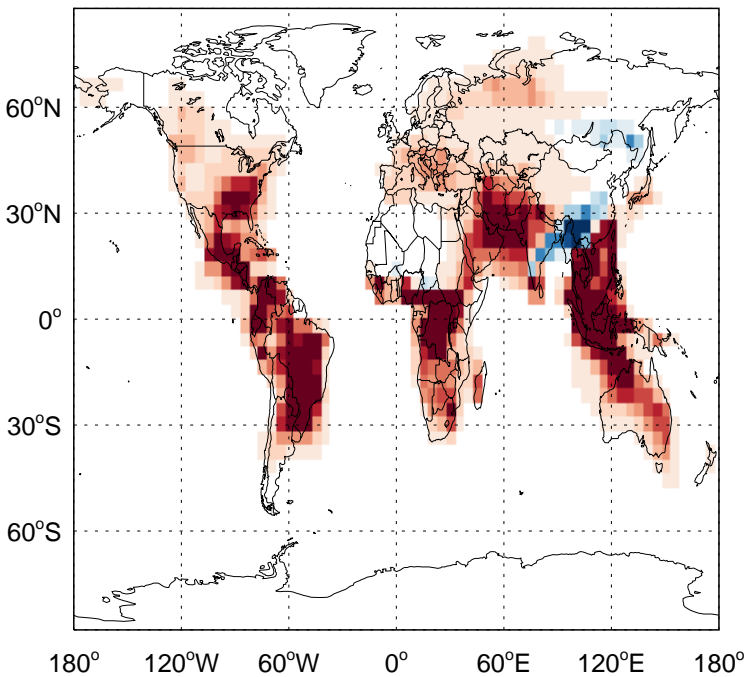
GC\_12.0.0 - v11-02f-Run1  
INDIOL - Diff @ Surface for Apr



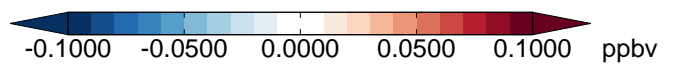
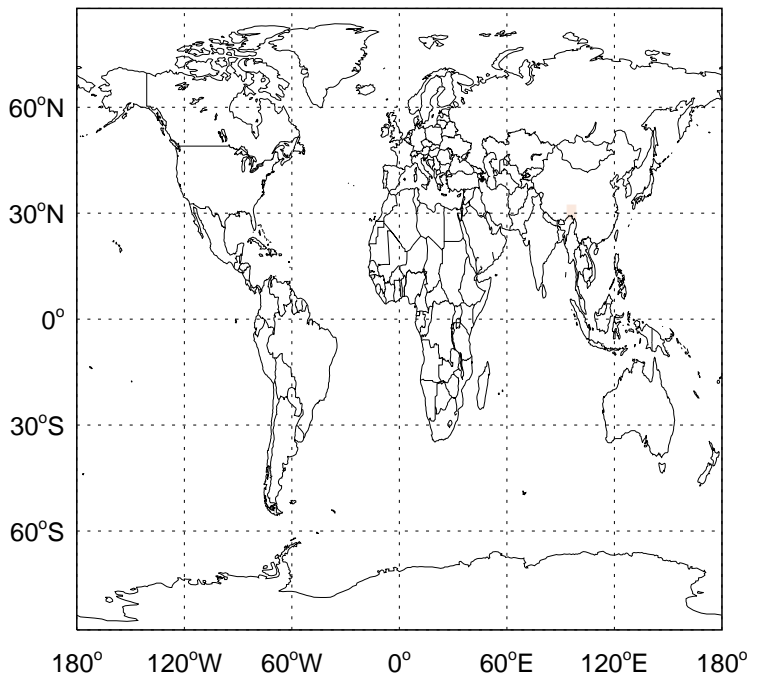
GC\_12.0.0 - v11-02f-Run1  
INDIOL- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
INDIOL - Diff @ Surface for Apr

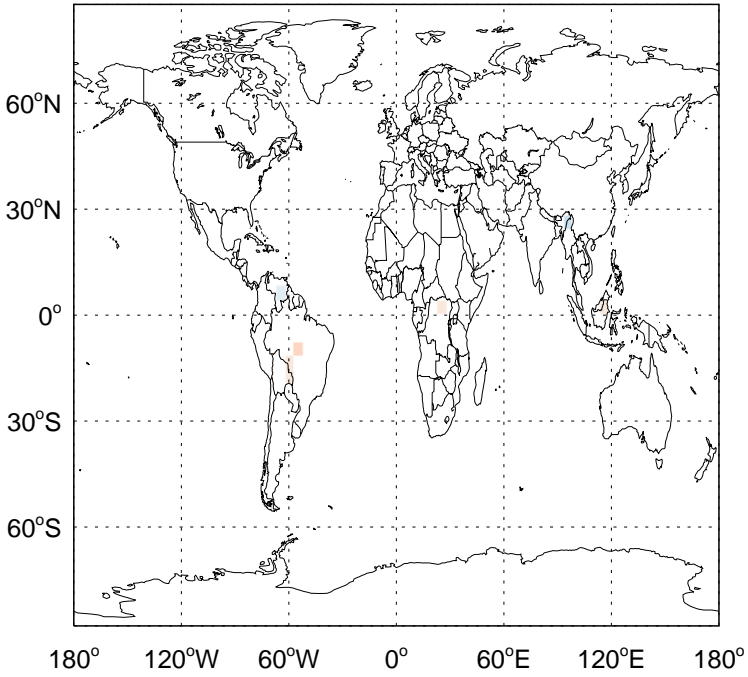


GC\_12.0.0 - v11-02e-Run1  
INDIOL- Diff @ 500 hPa for Apr

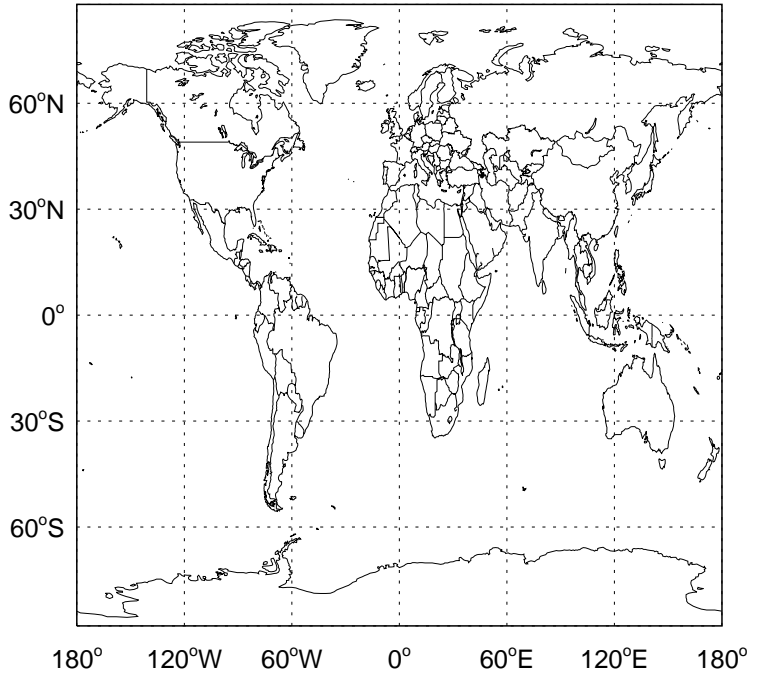


# GEOS-Chem Difference Maps at surface and 500 hPa

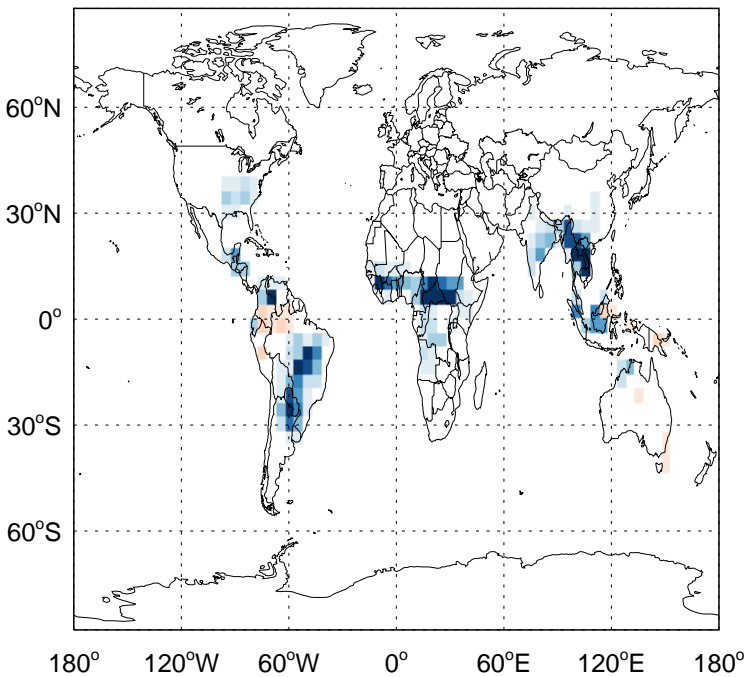
GC\_12.0.0 - v11-02f-Run1  
IPMN - Diff @ Surface for Apr



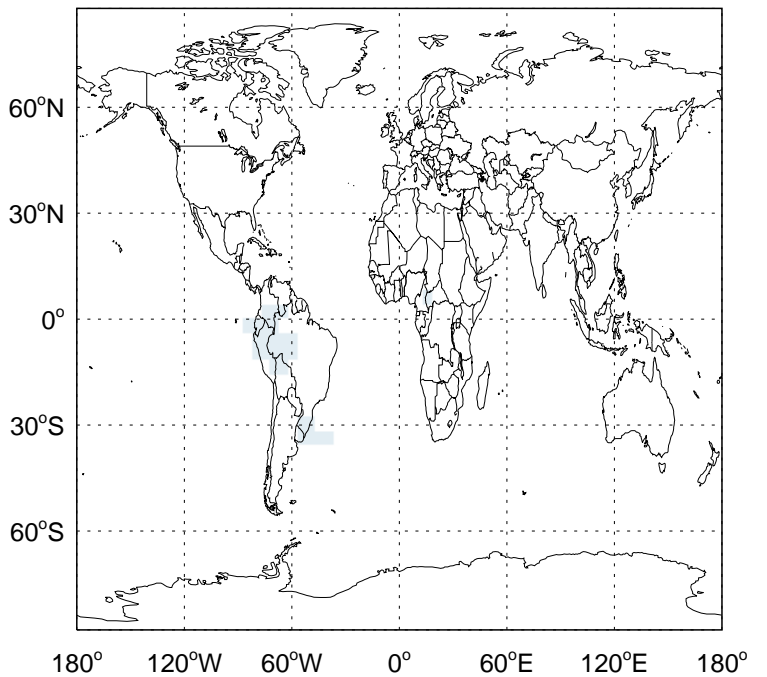
GC\_12.0.0 - v11-02f-Run1  
IPMN- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
IPMN - Diff @ Surface for Apr

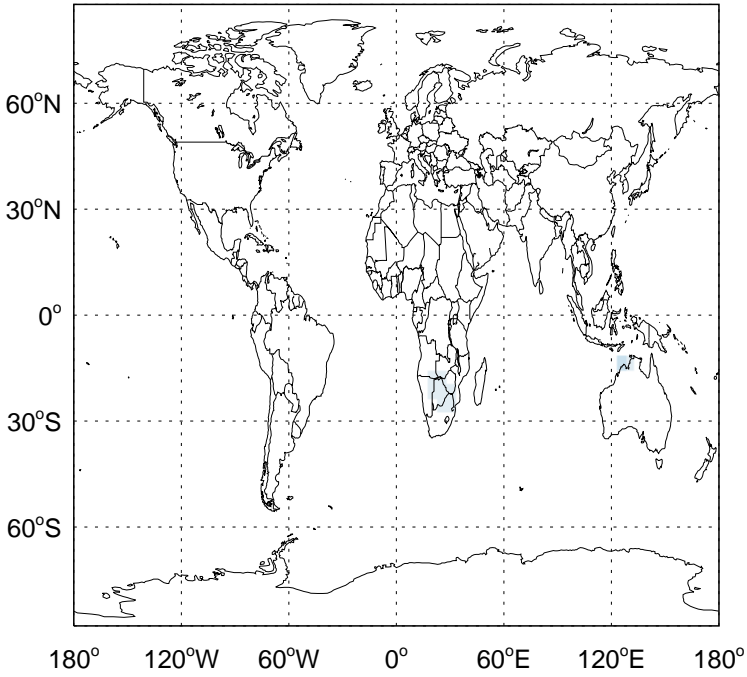


GC\_12.0.0 - v11-02e-Run1  
IPMN- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

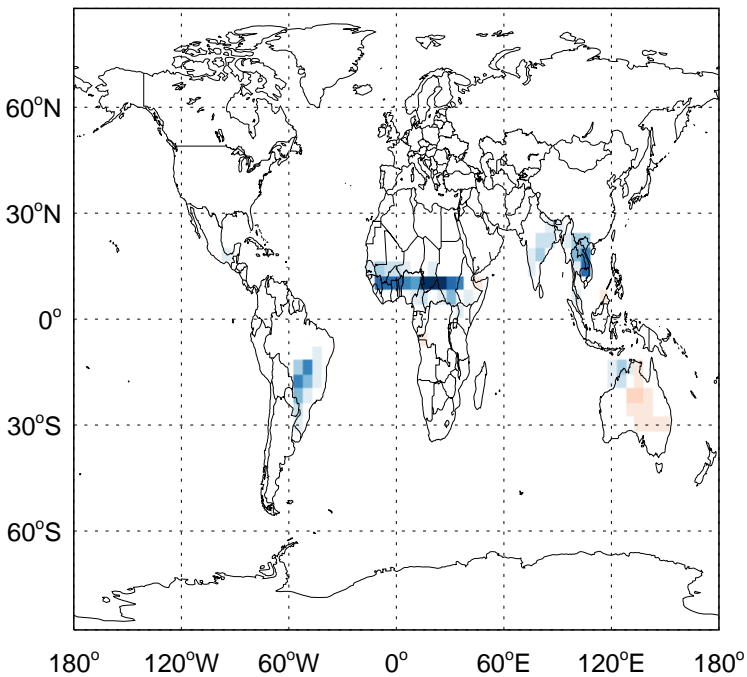
GC\_12.0.0 - v11-02f-Run1  
HC187 - Diff @ Surface for Apr



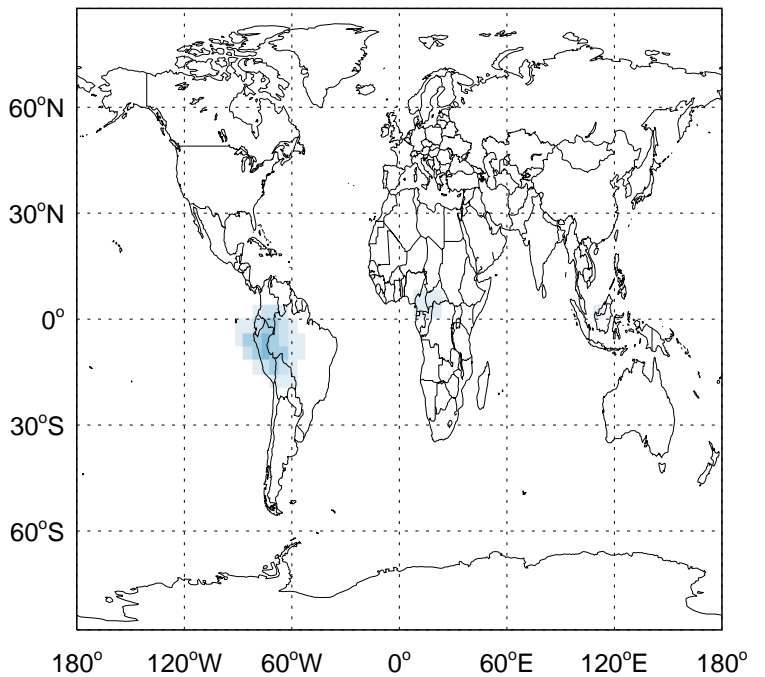
GC\_12.0.0 - v11-02f-Run1  
HC187- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HC187 - Diff @ Surface for Apr

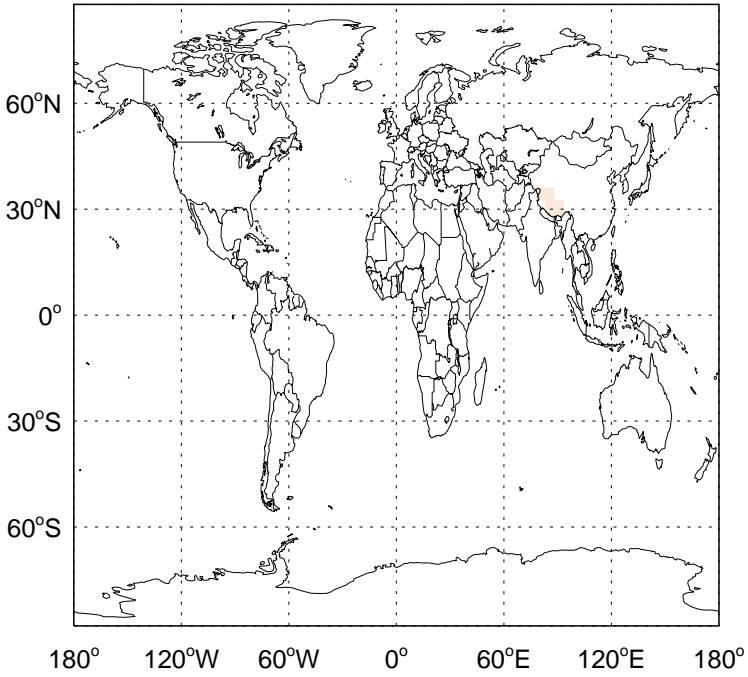


GC\_12.0.0 - v11-02e-Run1  
HC187- Diff @ 500 hPa for Apr

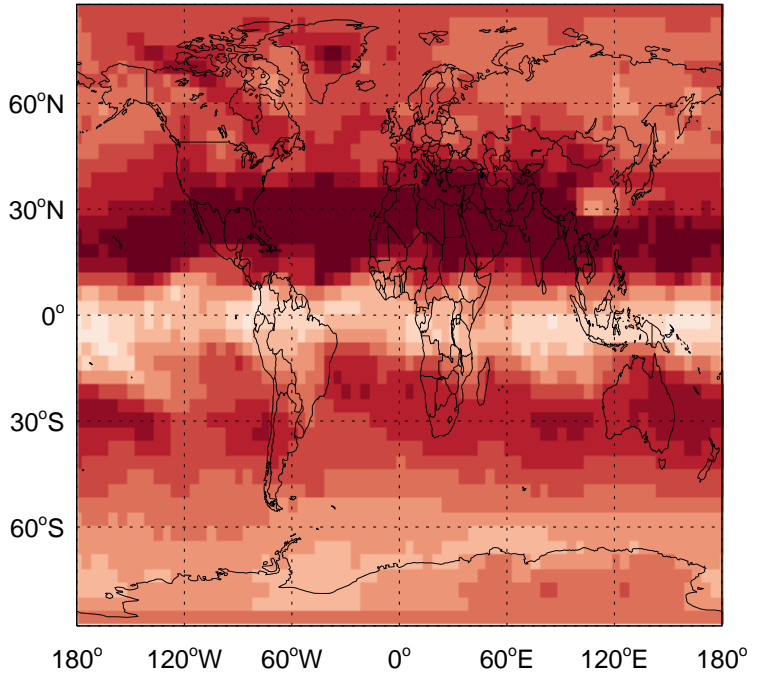


# GEOS-Chem Difference Maps at surface and 500 hPa

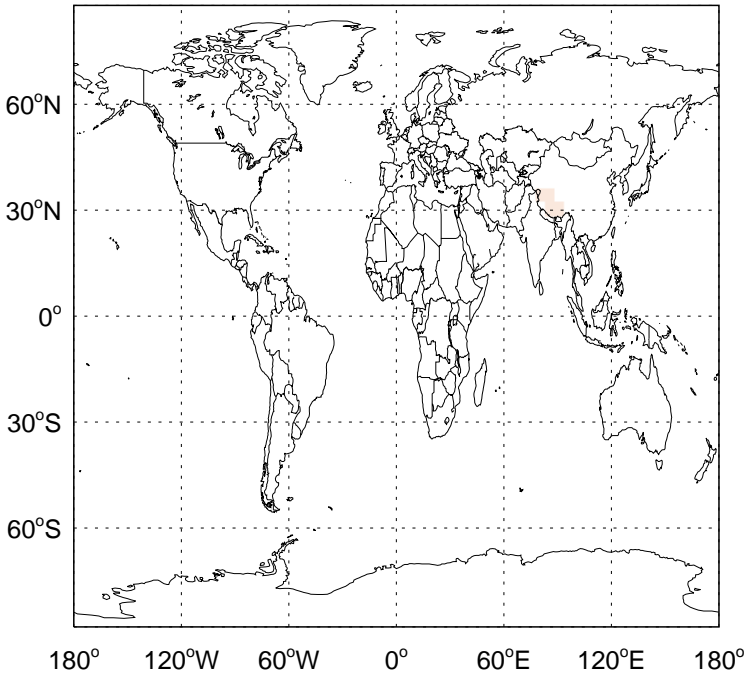
GC\_12.0.0 - v11-02f-Run1  
N2O - Diff @ Surface for Apr



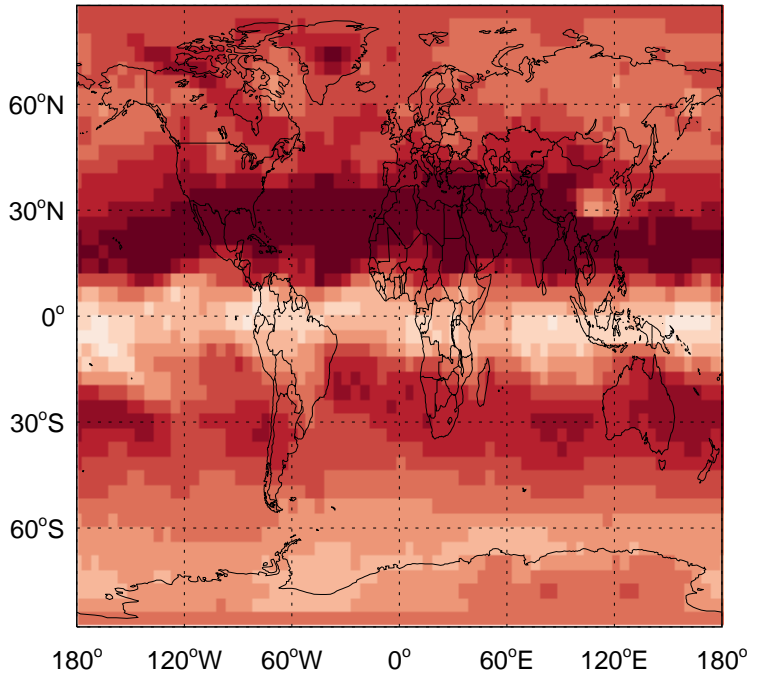
GC\_12.0.0 - v11-02f-Run1  
N2O- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
N2O - Diff @ Surface for Apr



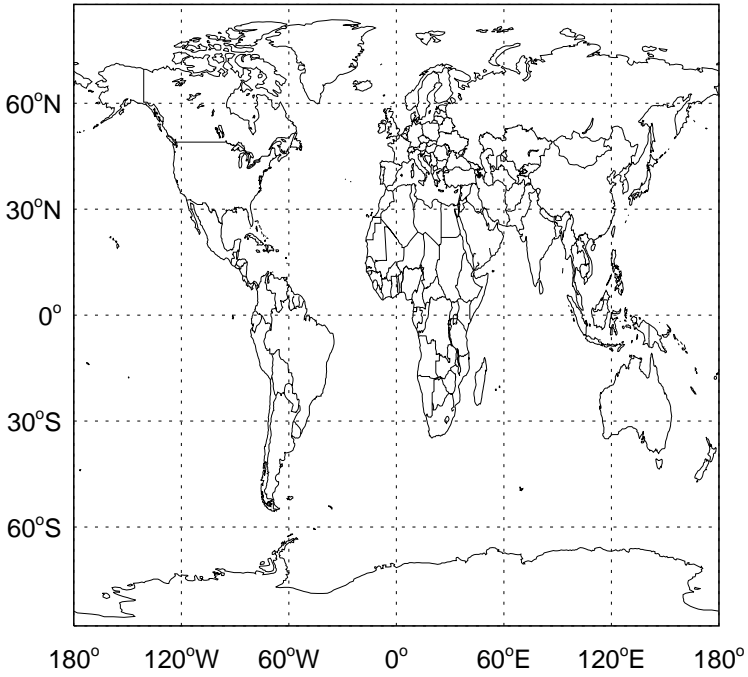
GC\_12.0.0 - v11-02e-Run1  
N2O- Diff @ 500 hPa for Apr



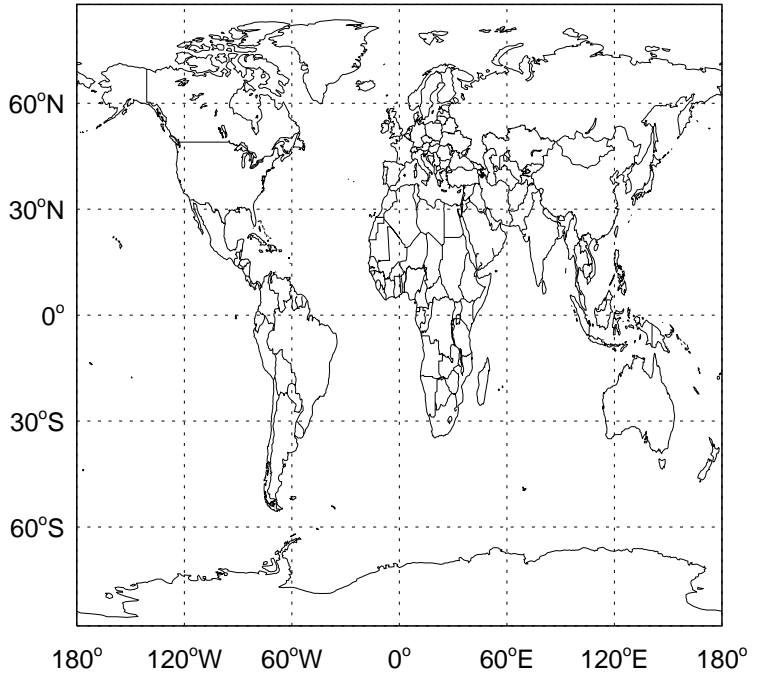


# GEOS-Chem Difference Maps at surface and 500 hPa

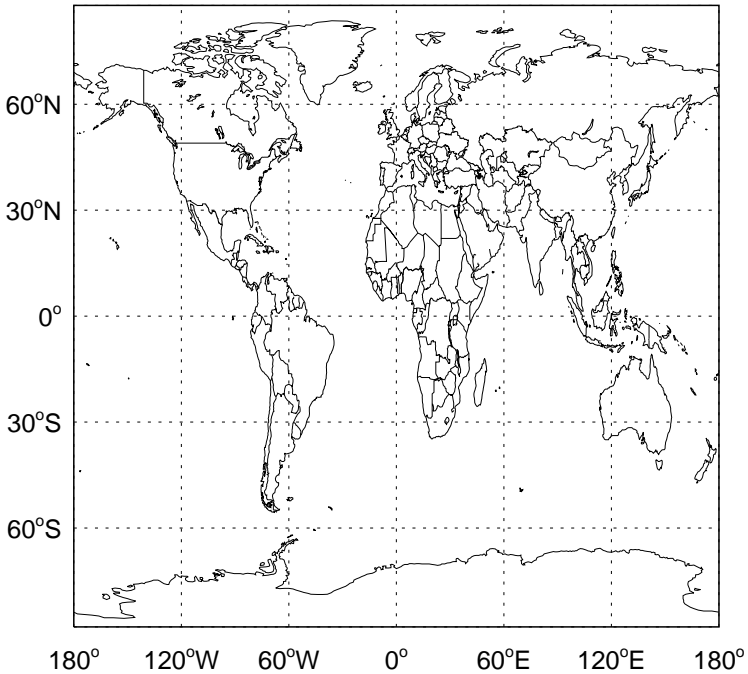
GC\_12.0.0 - v11-02f-Run1  
OCS - Diff @ Surface for Apr



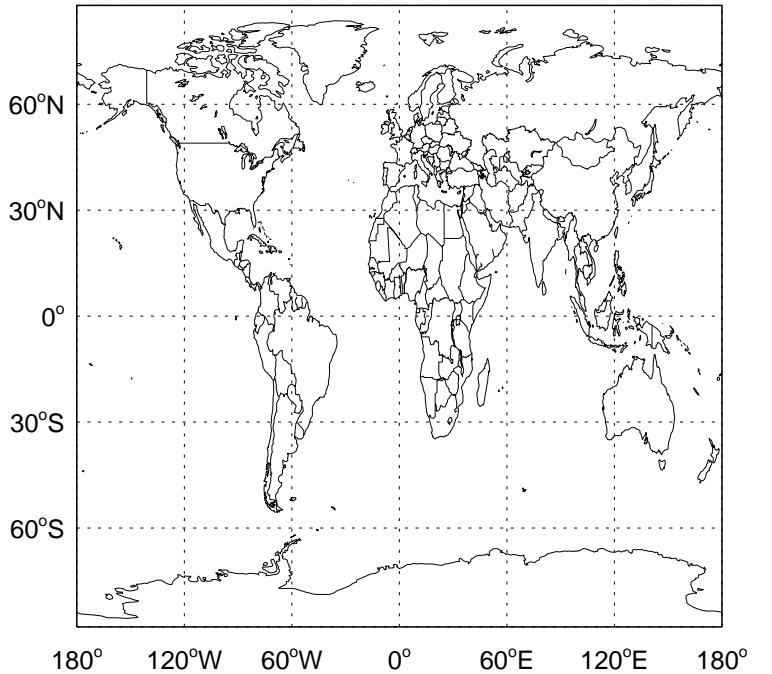
GC\_12.0.0 - v11-02f-Run1  
OCS- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
OCS - Diff @ Surface for Apr

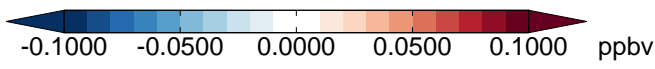
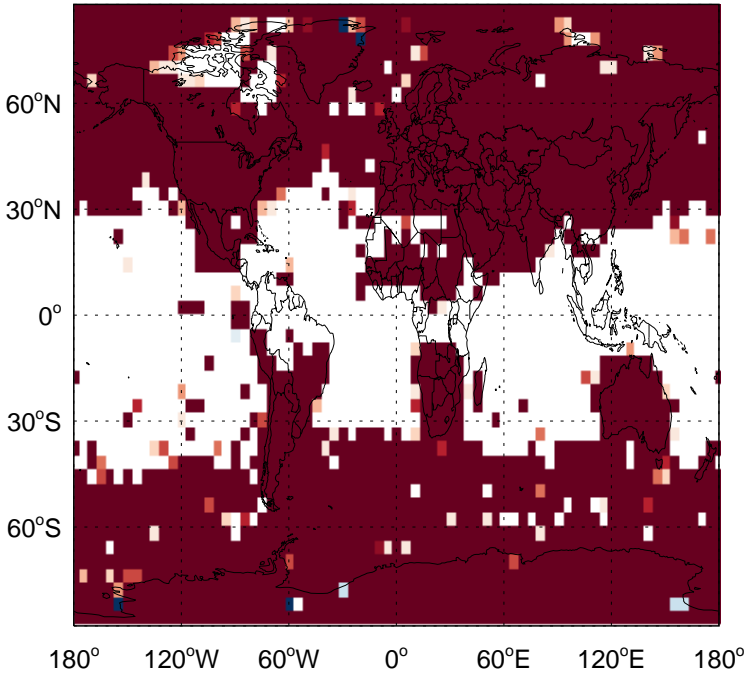


GC\_12.0.0 - v11-02e-Run1  
OCS- Diff @ 500 hPa for Apr

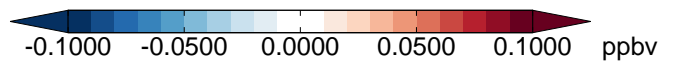
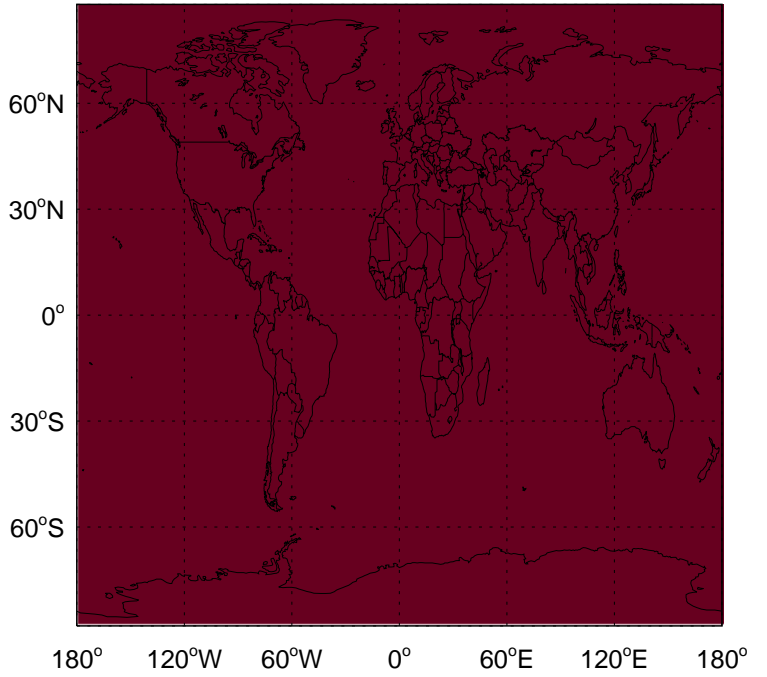


# GEOS-Chem Difference Maps at surface and 500 hPa

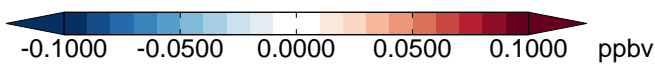
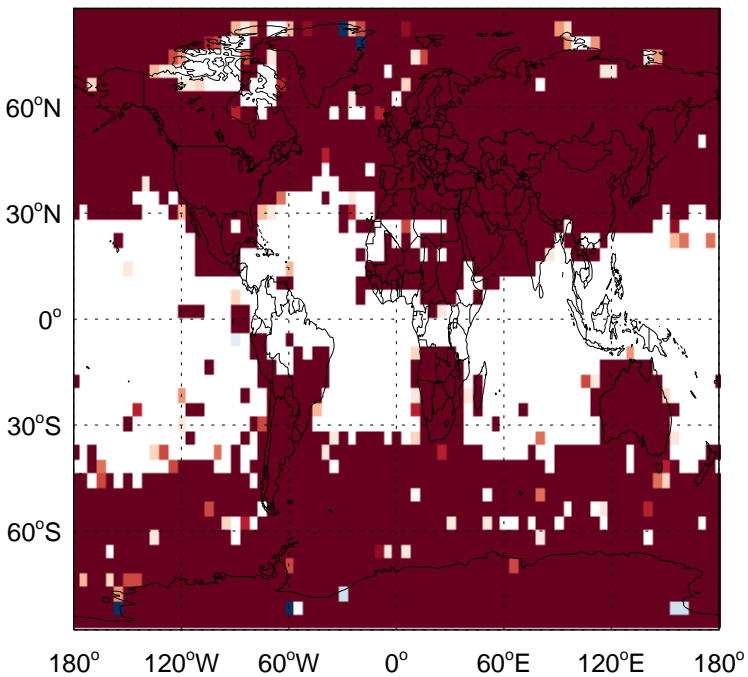
GC\_12.0.0 - v11-02f-Run1  
CH4 - Diff @ Surface for Apr



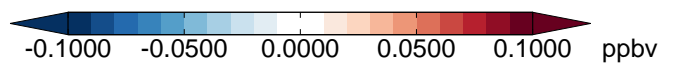
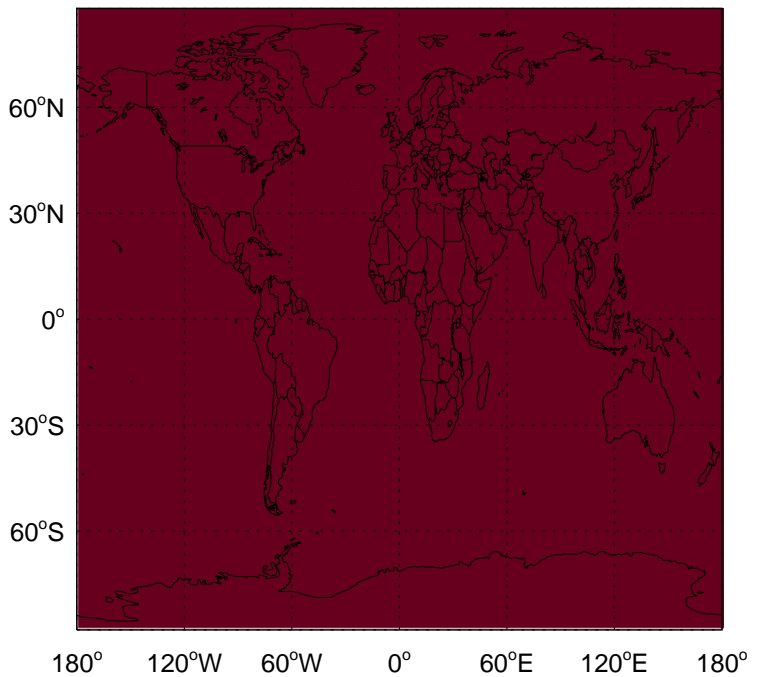
GC\_12.0.0 - v11-02f-Run1  
CH4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH4 - Diff @ Surface for Apr

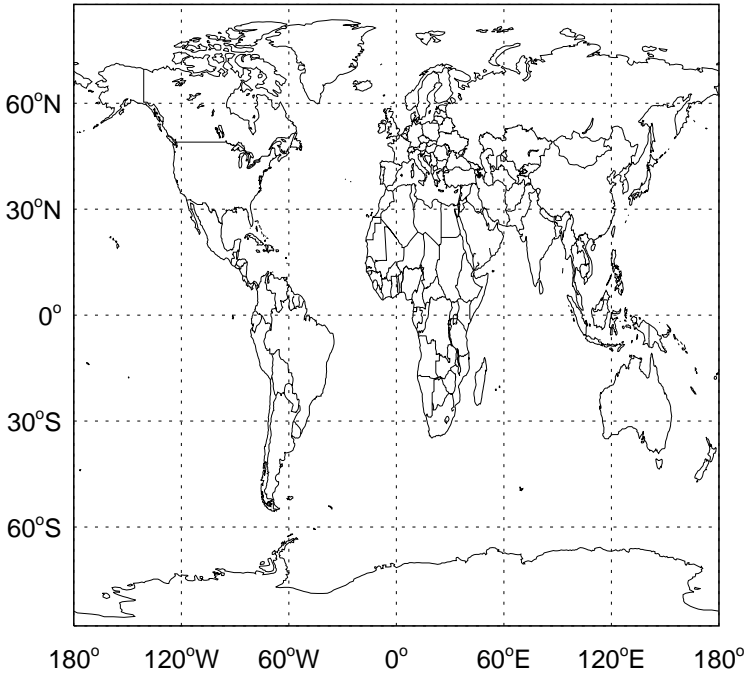


GC\_12.0.0 - v11-02e-Run1  
CH4- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

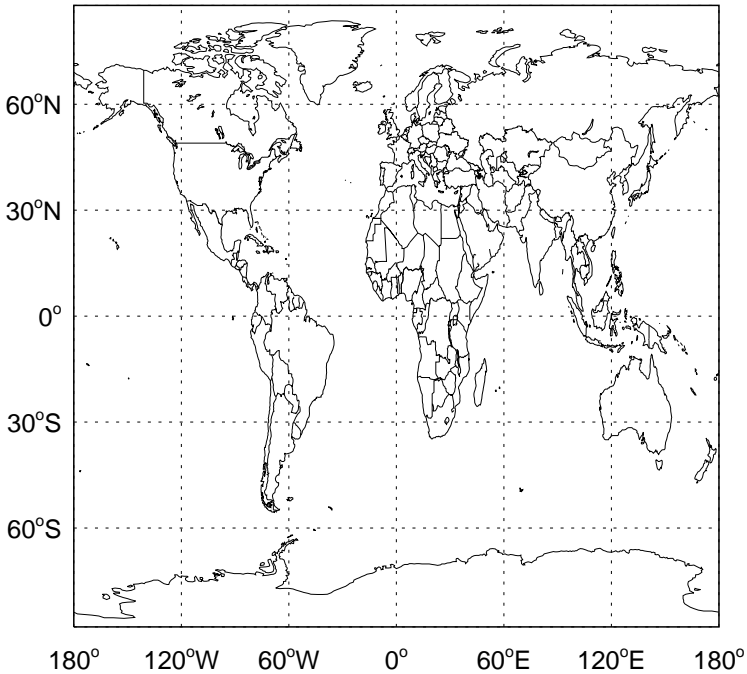
GC\_12.0.0 - v11-02f-Run1  
BrCl - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
BrCl - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
BrCl - Diff @ Surface for Apr

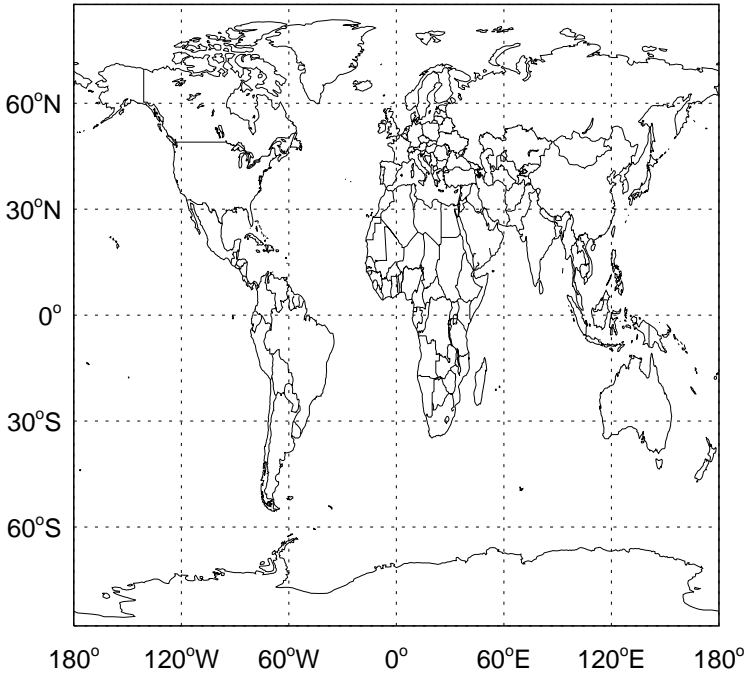


GC\_12.0.0 - v11-02e-Run1  
BrCl - Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

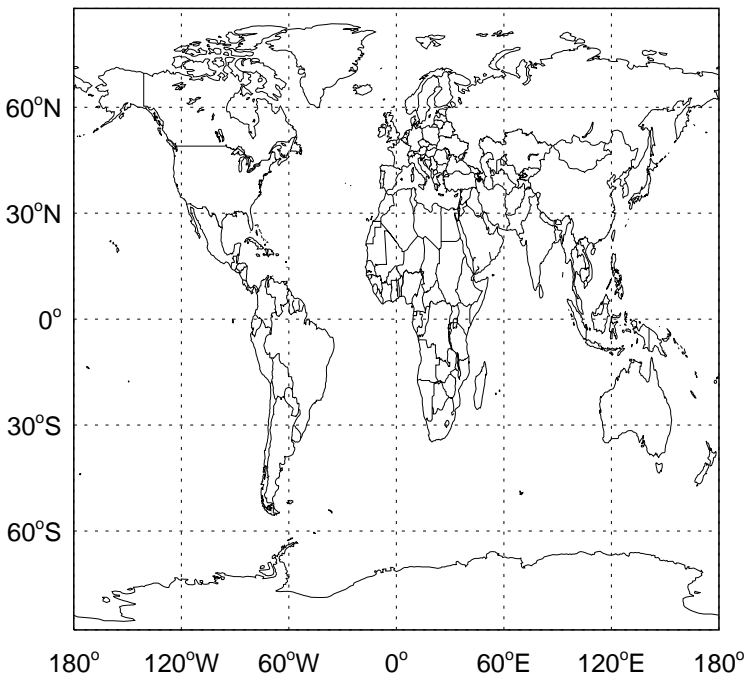
GC\_12.0.0 - v11-02f-Run1  
HCl - Diff @ Surface for Apr



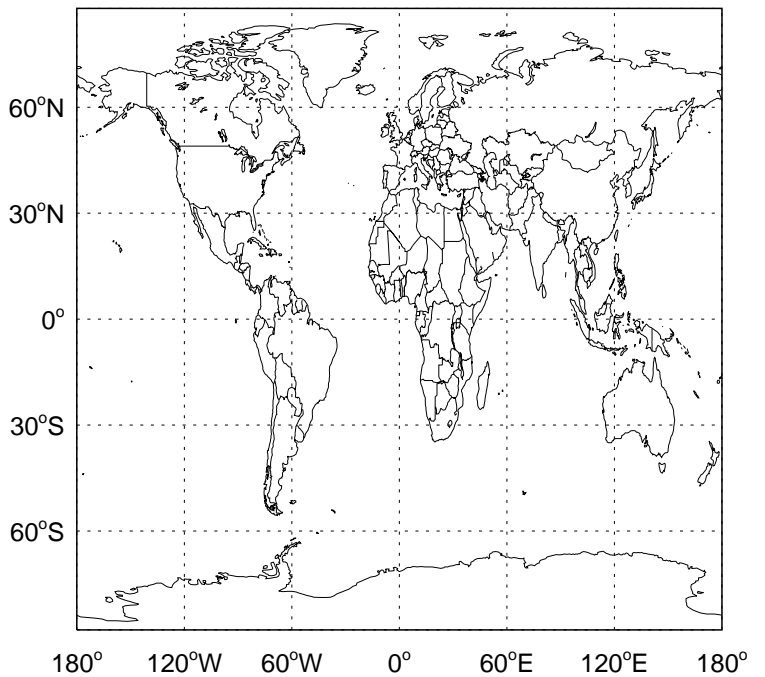
GC\_12.0.0 - v11-02f-Run1  
HCl- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCl - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
HCl- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

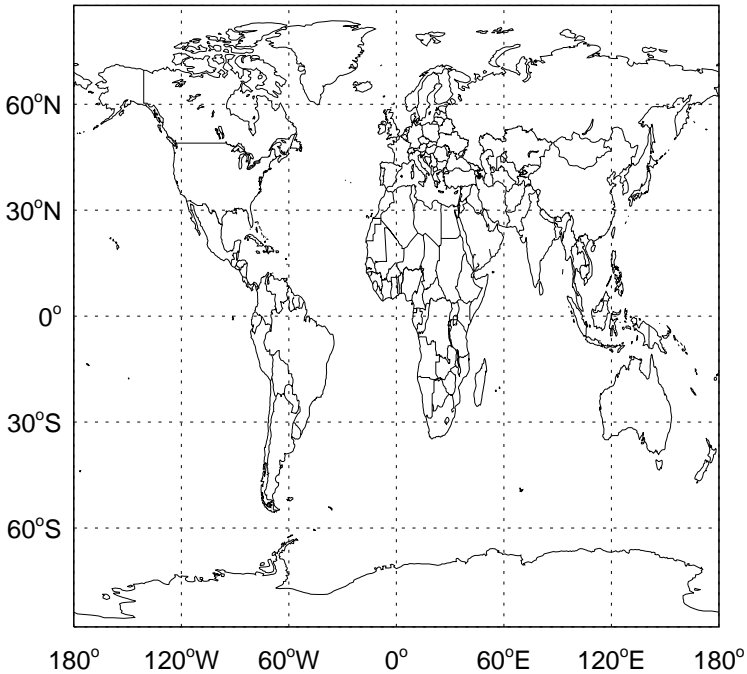
GC\_12.0.0 - v11-02f-Run1  
CCl4 - Diff @ Surface for Apr



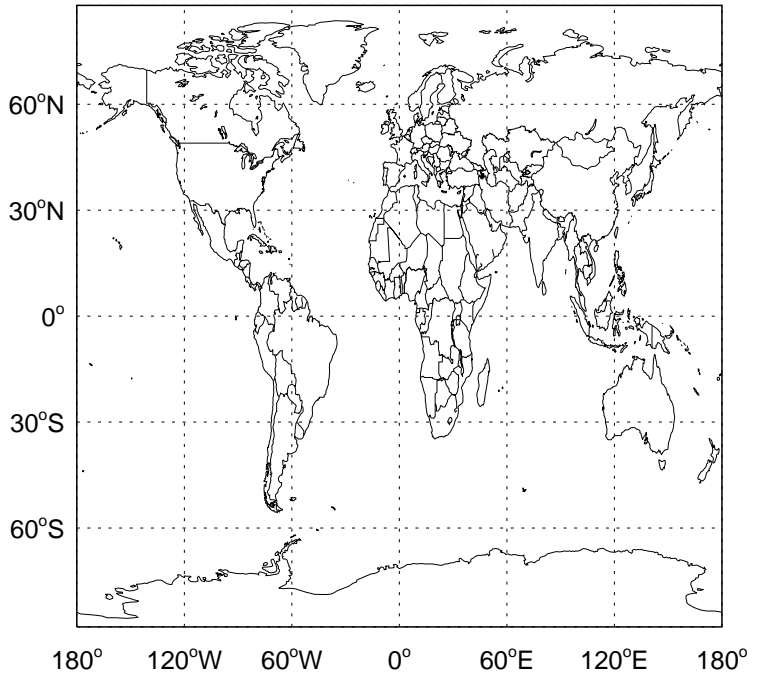
GC\_12.0.0 - v11-02f-Run1  
CCl4- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CCl4 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
CCl4- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

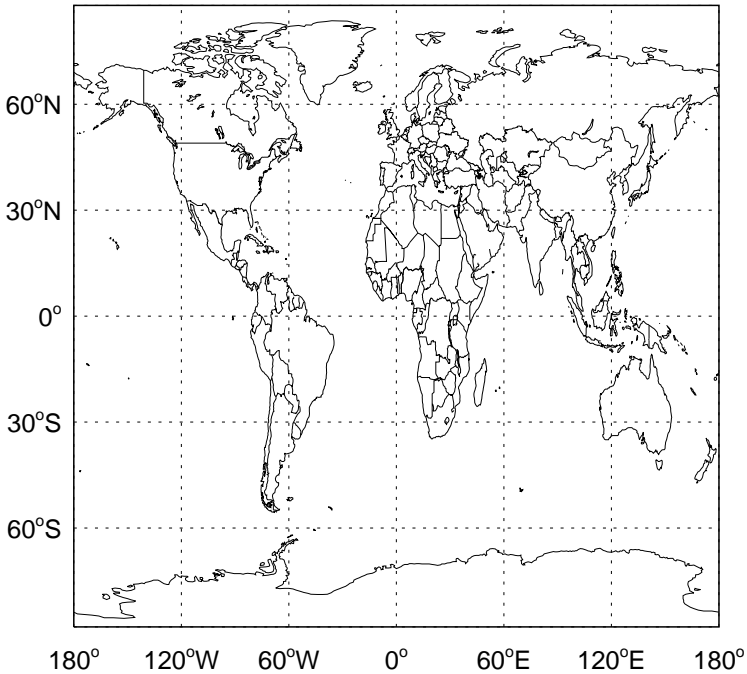
GC\_12.0.0 - v11-02f-Run1  
CH3Cl - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
CH3Cl - Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH3Cl - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
CH3Cl - Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

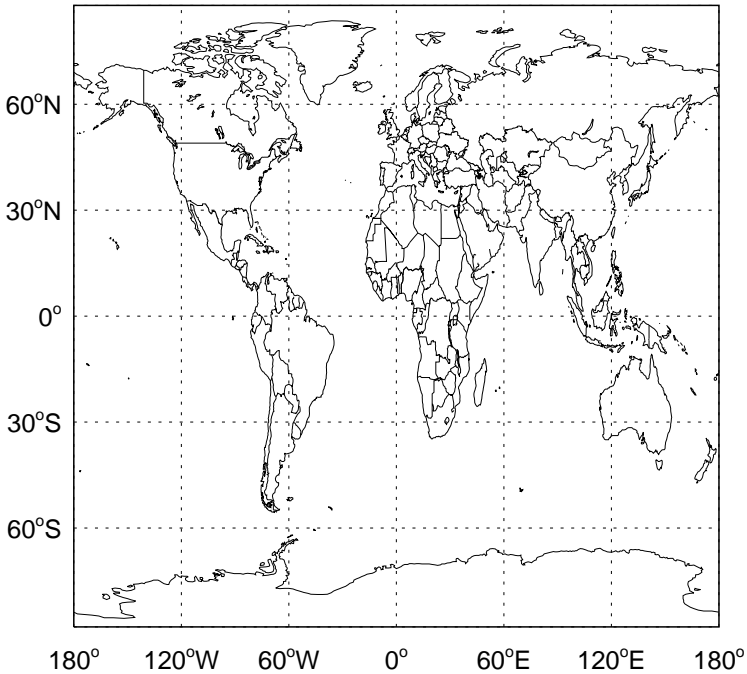
GC\_12.0.0 - v11-02f-Run1  
CH3CCI3 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
CH3CCI3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CH3CCI3 - Diff @ Surface for Apr

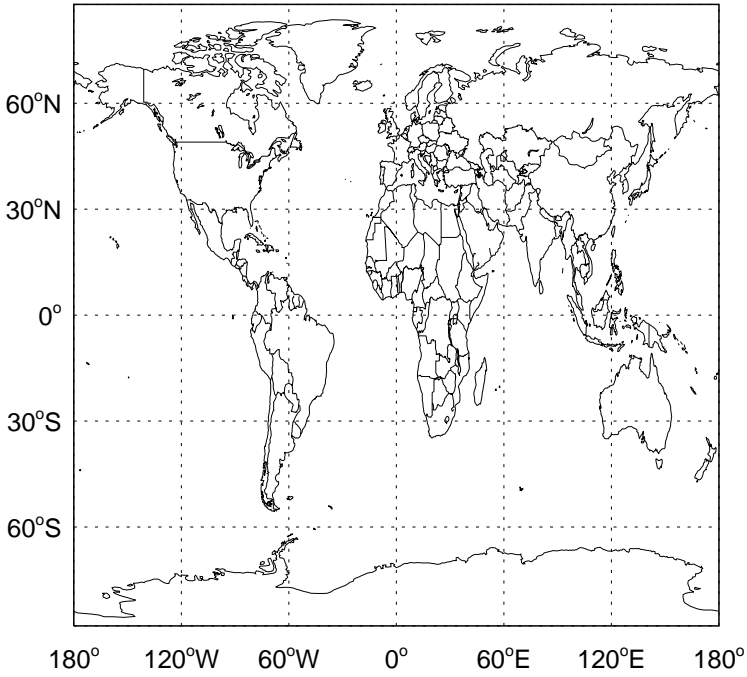


GC\_12.0.0 - v11-02e-Run1  
CH3CCI3- Diff @ 500 hPa for Apr

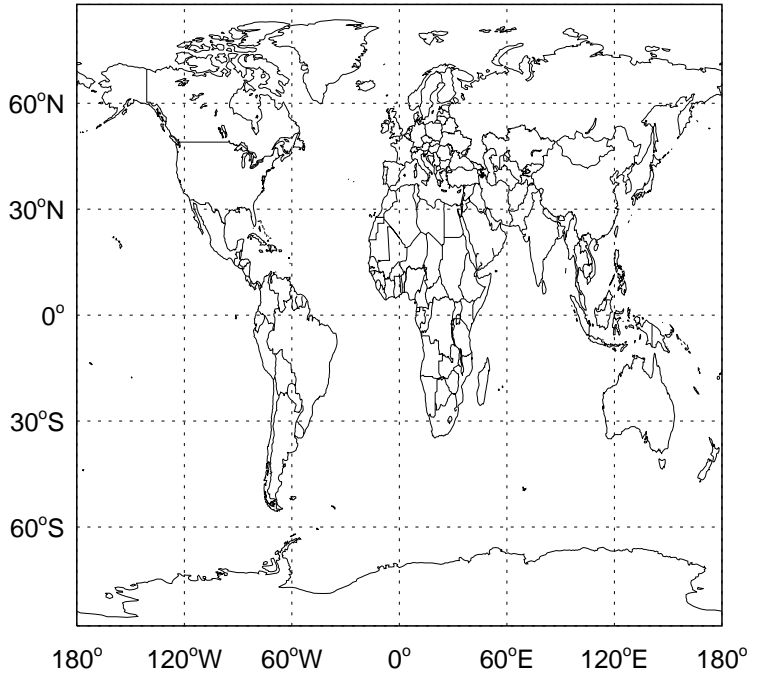


# GEOS-Chem Difference Maps at surface and 500 hPa

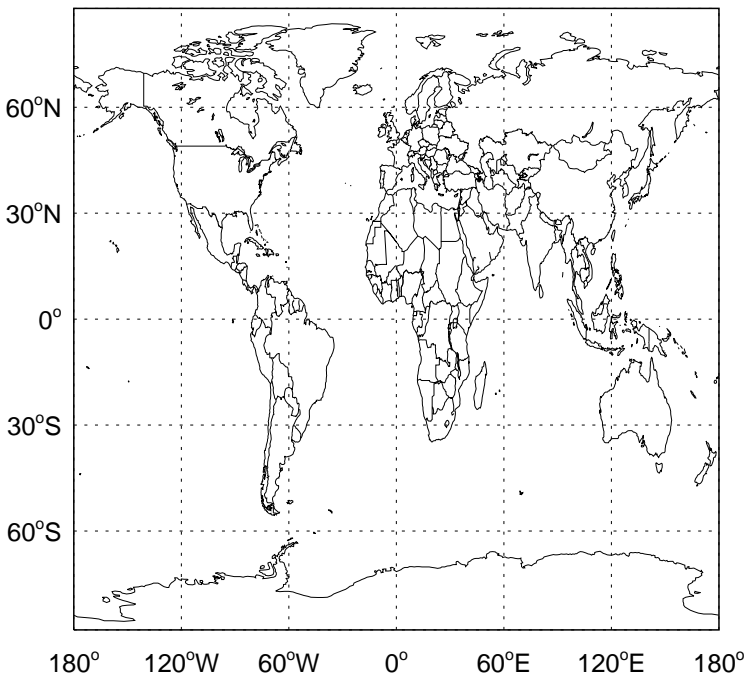
GC\_12.0.0 - v11-02f-Run1  
CFC113 - Diff @ Surface for Apr



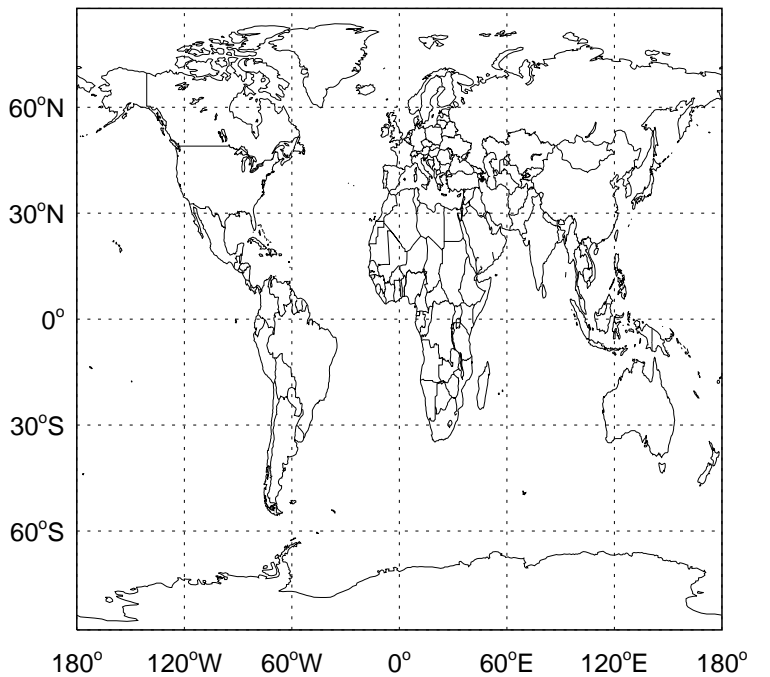
GC\_12.0.0 - v11-02f-Run1  
CFC113- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC113 - Diff @ Surface for Apr



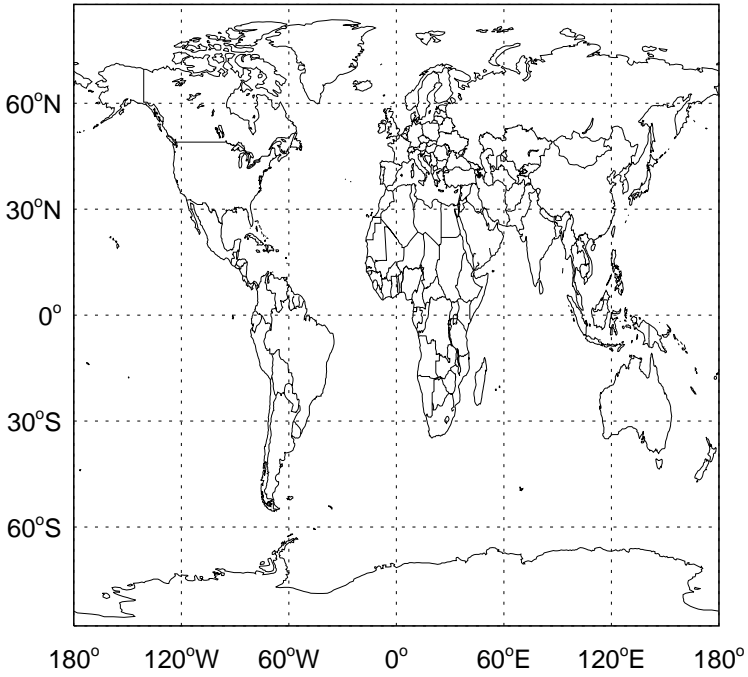
GC\_12.0.0 - v11-02e-Run1  
CFC113- Diff @ 500 hPa for Apr



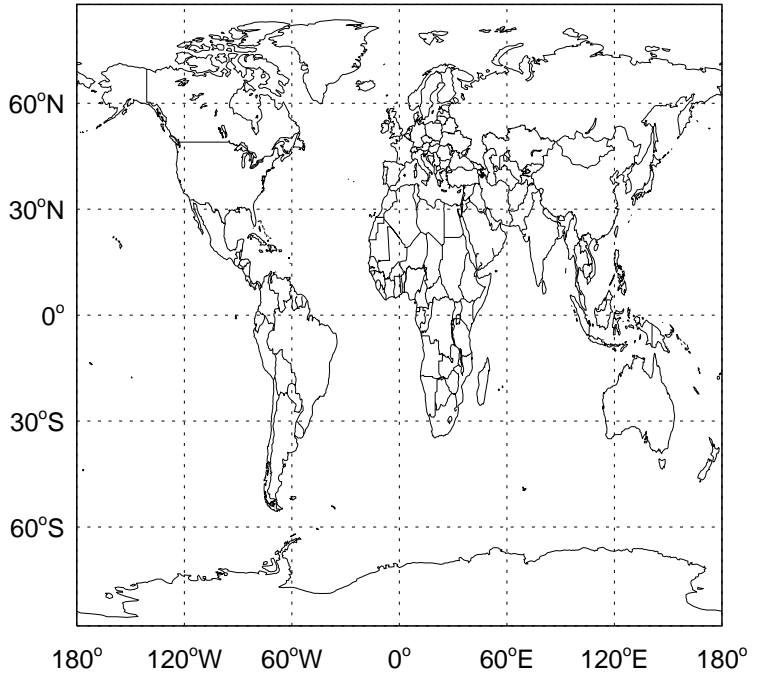


# GEOS-Chem Difference Maps at surface and 500 hPa

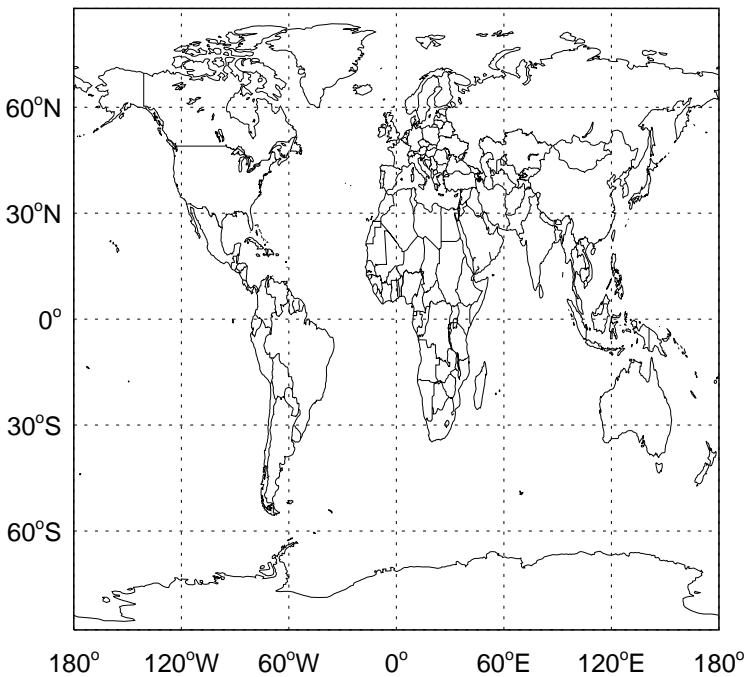
GC\_12.0.0 - v11-02f-Run1  
CFC114 - Diff @ Surface for Apr



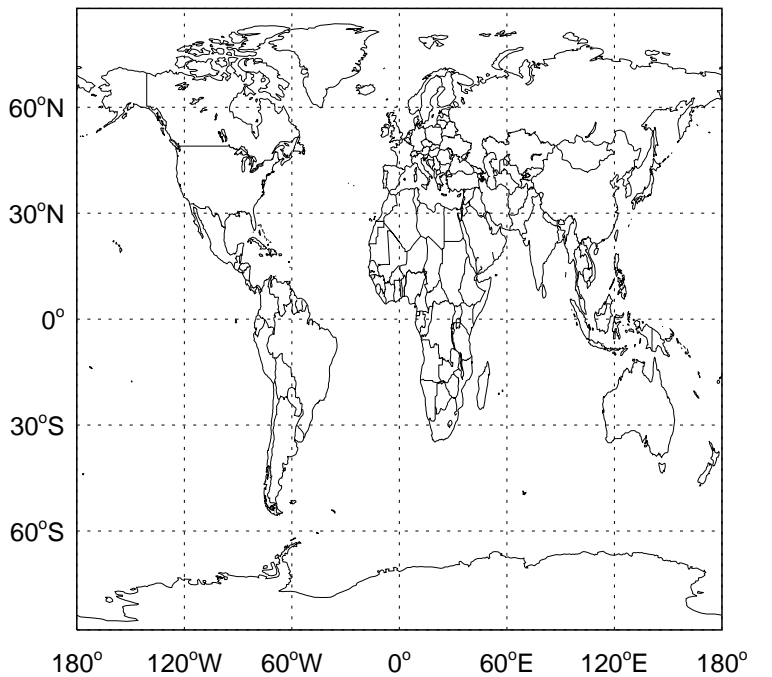
GC\_12.0.0 - v11-02f-Run1  
CFC114- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC114 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC114- Diff @ 500 hPa for Apr

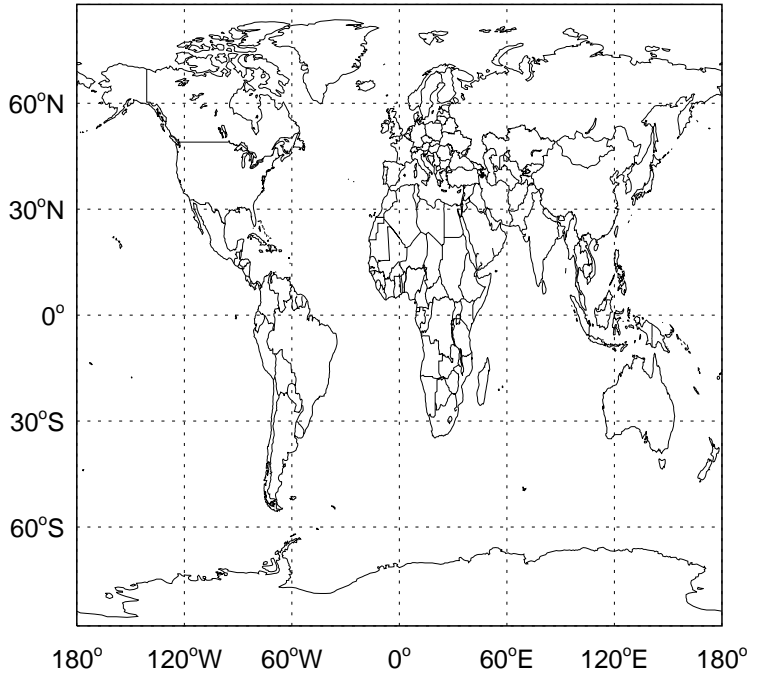


# GEOS-Chem Difference Maps at surface and 500 hPa

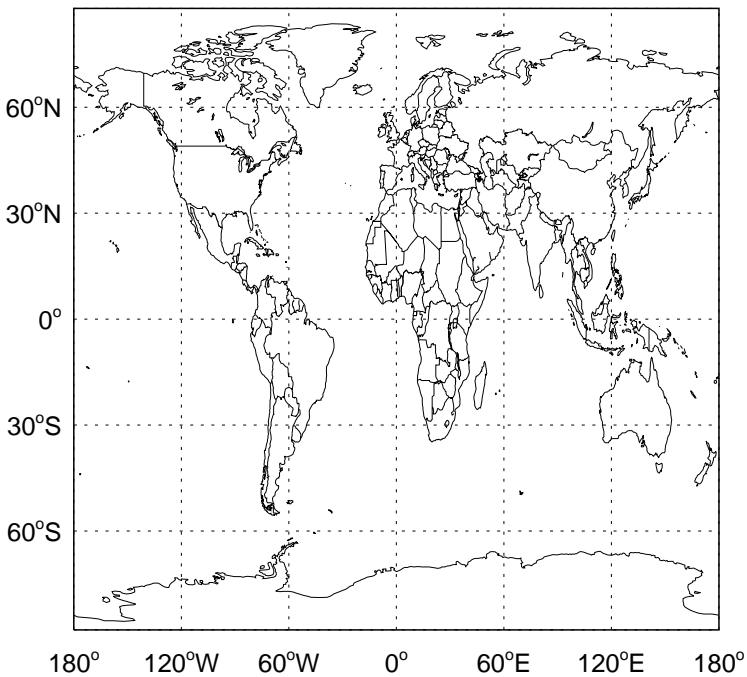
GC\_12.0.0 - v11-02f-Run1  
CFC115 - Diff @ Surface for Apr



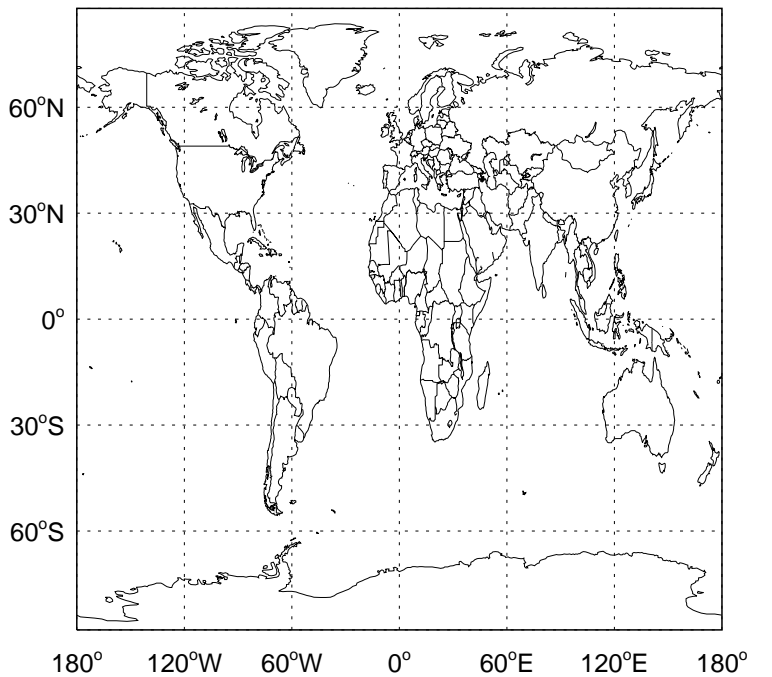
GC\_12.0.0 - v11-02f-Run1  
CFC115- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC115 - Diff @ Surface for Apr

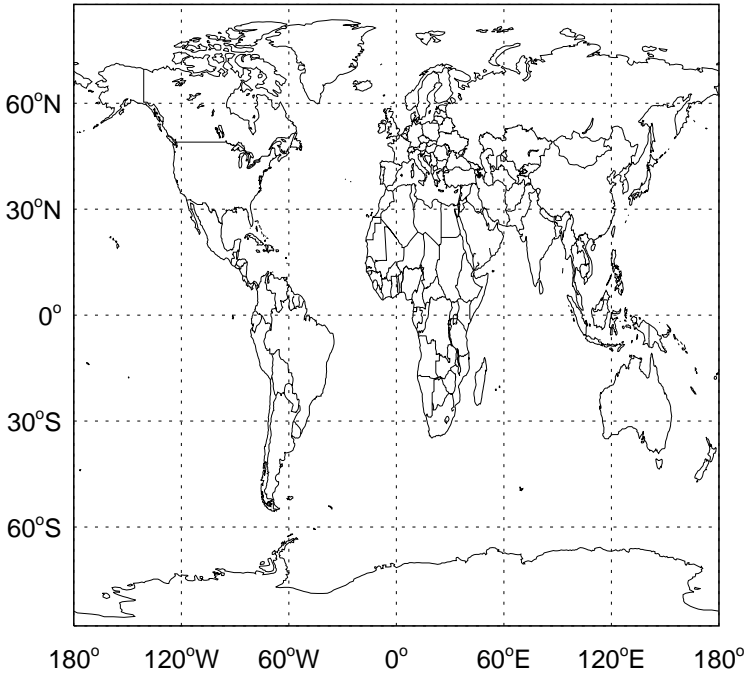


GC\_12.0.0 - v11-02e-Run1  
CFC115- Diff @ 500 hPa for Apr

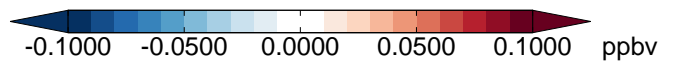
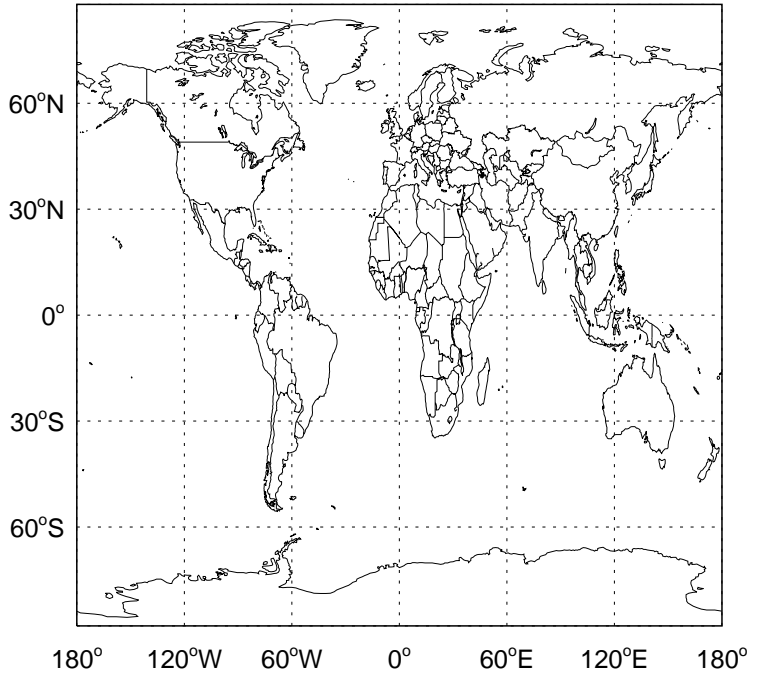


# GEOS-Chem Difference Maps at surface and 500 hPa

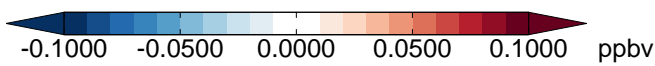
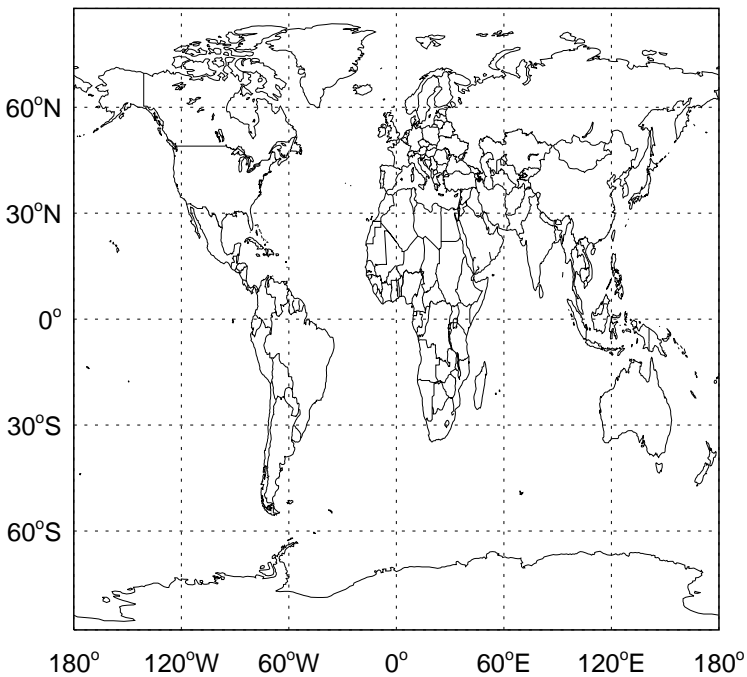
GC\_12.0.0 - v11-02f-Run1  
HCFC123 - Diff @ Surface for Apr



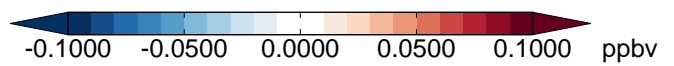
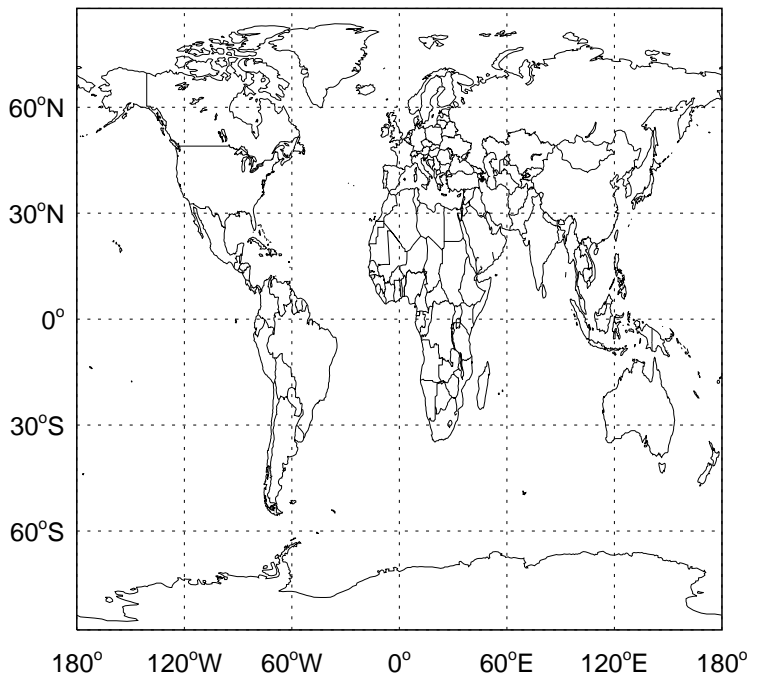
GC\_12.0.0 - v11-02f-Run1  
HCFC123- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC123 - Diff @ Surface for Apr

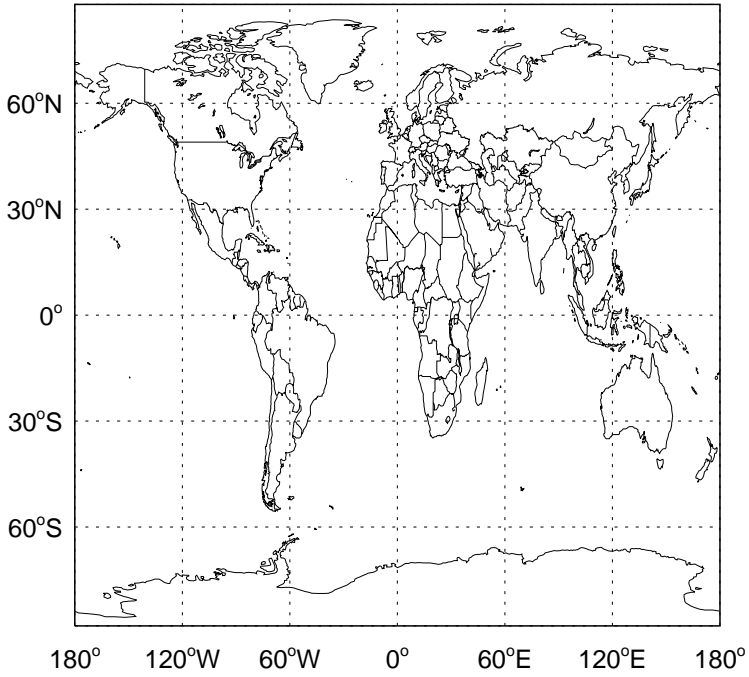


GC\_12.0.0 - v11-02e-Run1  
HCFC123- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

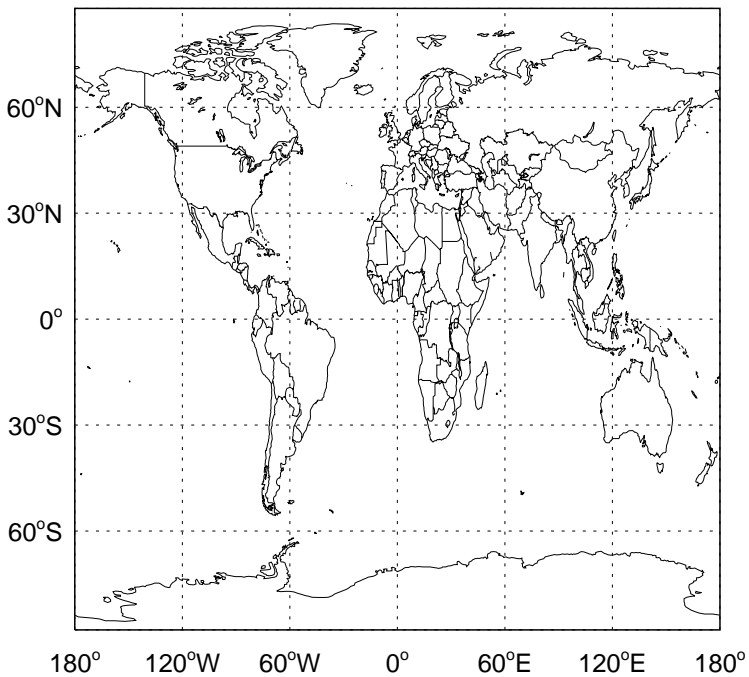
GC\_12.0.0 - v11-02f-Run1  
HCFC141b - Diff @ Surface for Apr



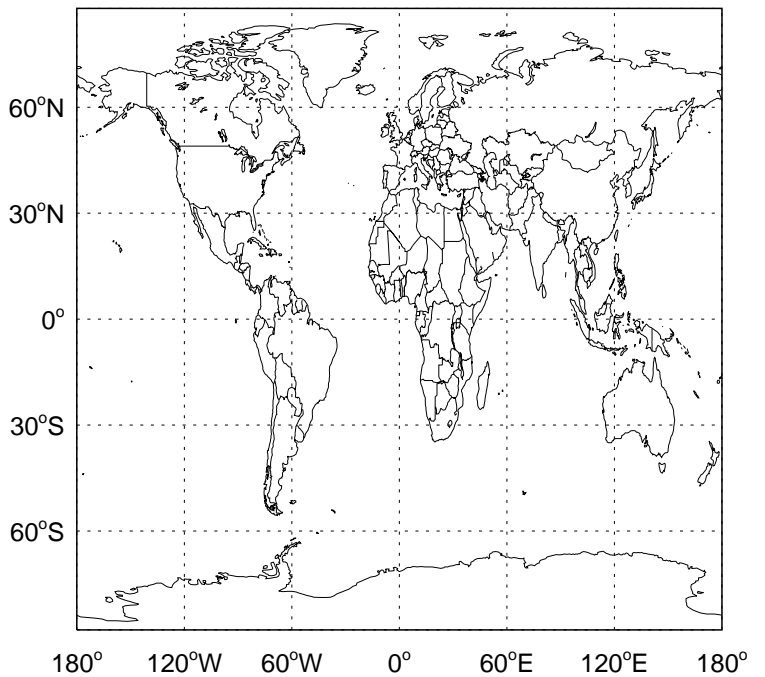
GC\_12.0.0 - v11-02f-Run1  
HCFC141b- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC141b - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC141b- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

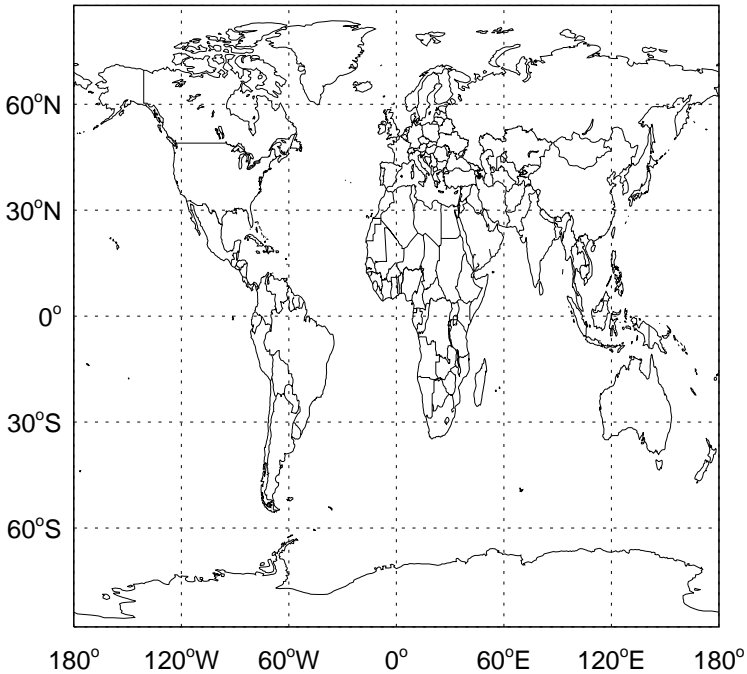
GC\_12.0.0 - v11-02f-Run1  
HCFC142b - Diff @ Surface for Apr



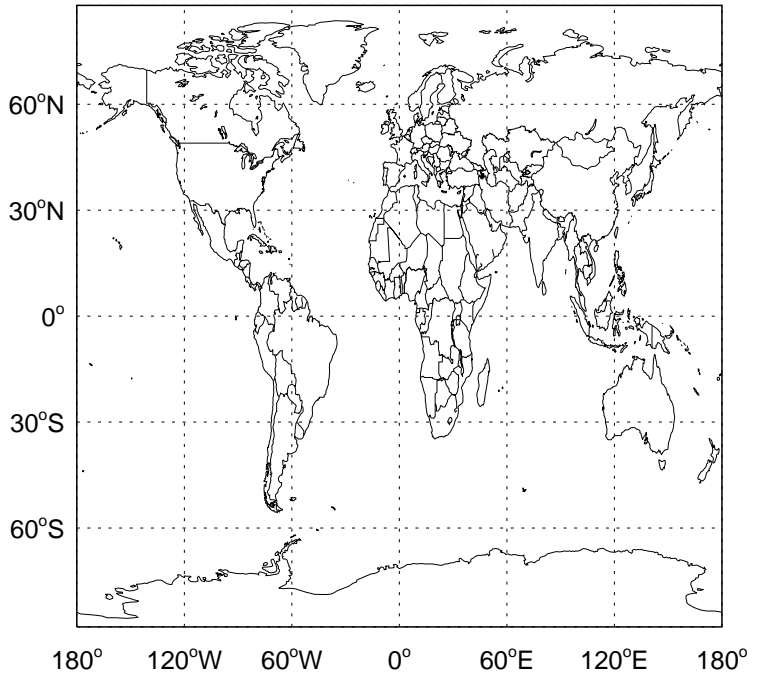
GC\_12.0.0 - v11-02f-Run1  
HCFC142b- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC142b - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC142b- Diff @ 500 hPa for Apr

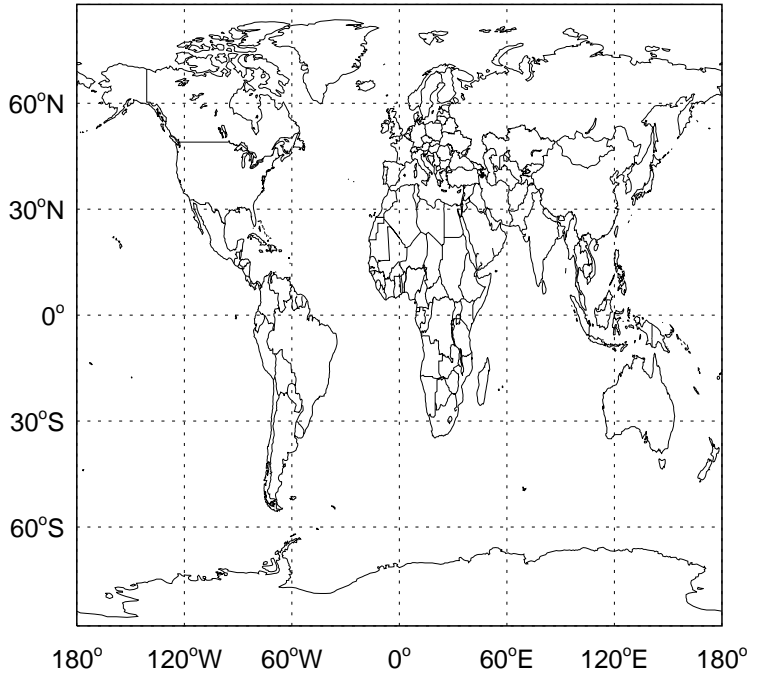


# GEOS-Chem Difference Maps at surface and 500 hPa

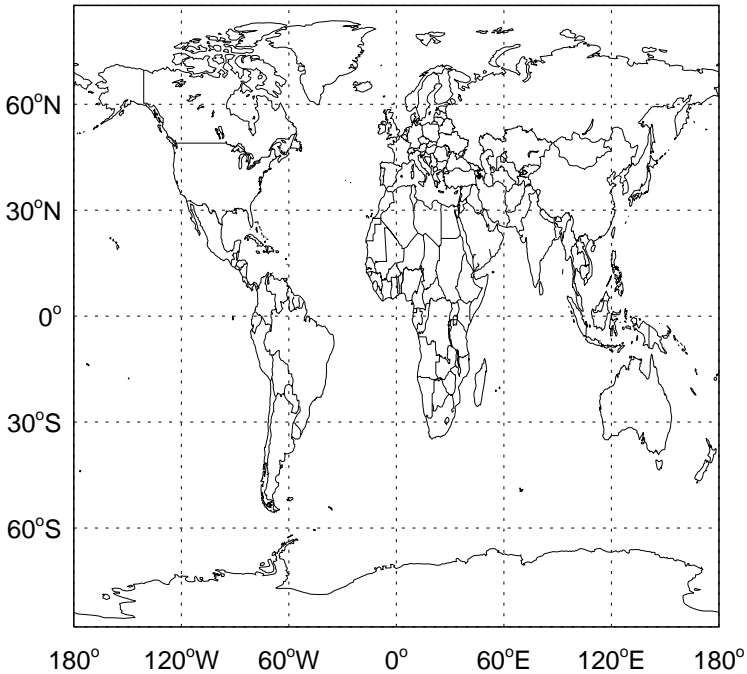
GC\_12.0.0 - v11-02f-Run1  
CFC11 - Diff @ Surface for Apr



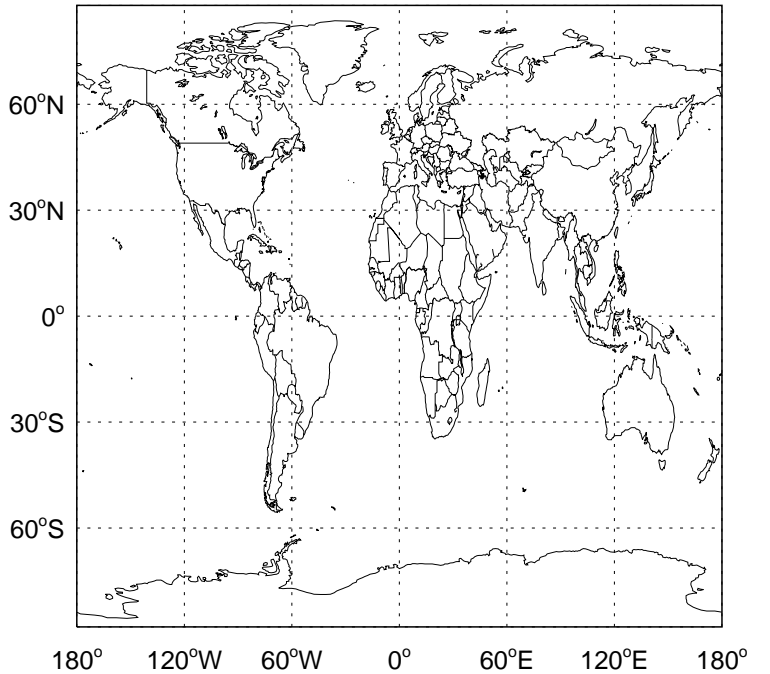
GC\_12.0.0 - v11-02f-Run1  
CFC11- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC11 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC11- Diff @ 500 hPa for Apr

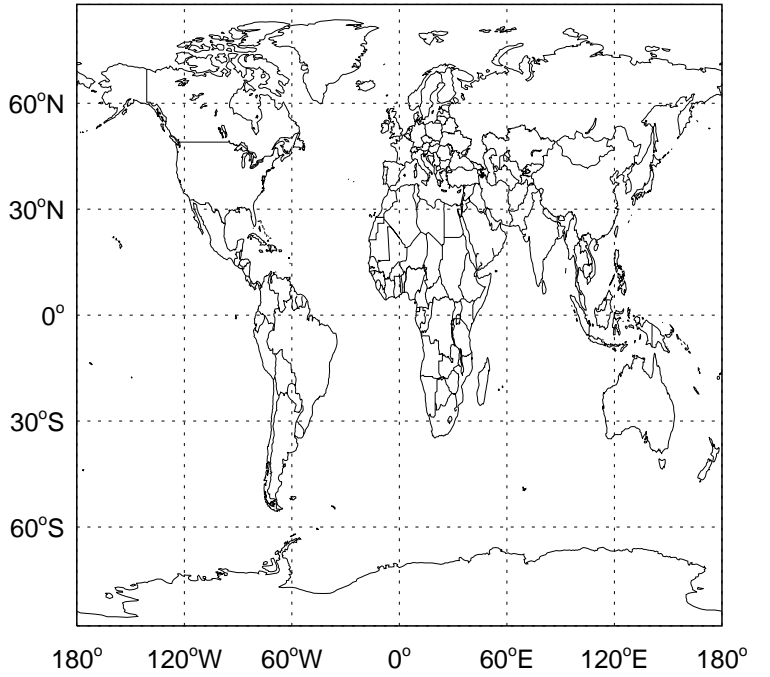


# GEOS-Chem Difference Maps at surface and 500 hPa

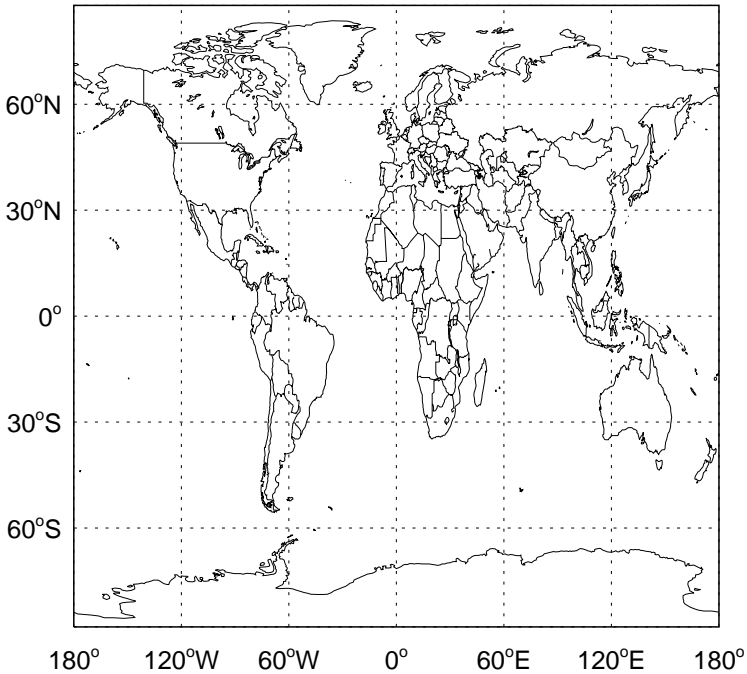
GC\_12.0.0 - v11-02f-Run1  
CFC12 - Diff @ Surface for Apr



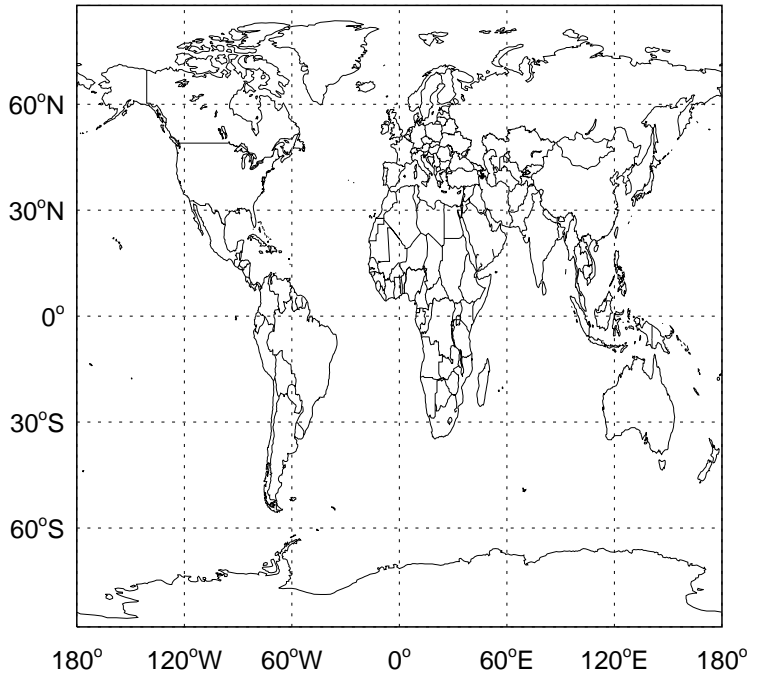
GC\_12.0.0 - v11-02f-Run1  
CFC12- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CFC12 - Diff @ Surface for Apr

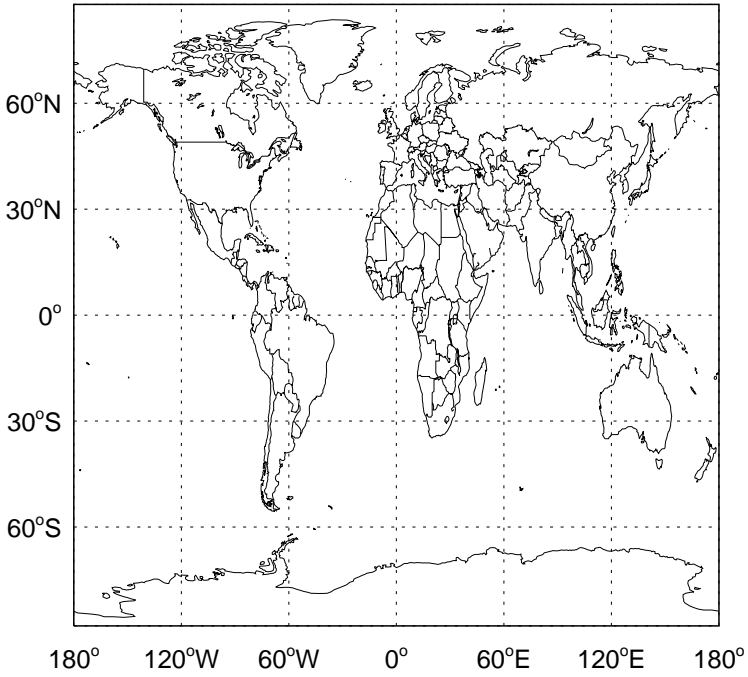


GC\_12.0.0 - v11-02e-Run1  
CFC12- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

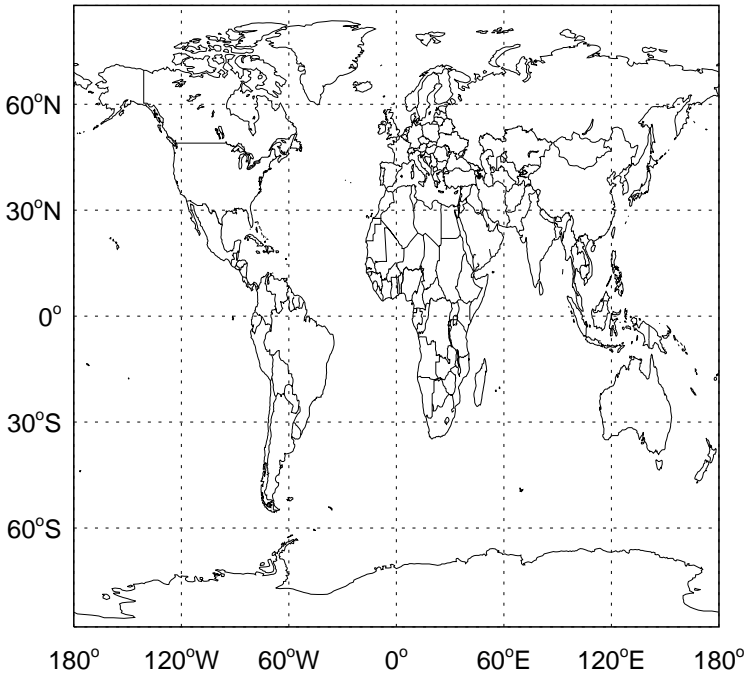
GC\_12.0.0 - v11-02f-Run1  
HCFC22 - Diff @ Surface for Apr



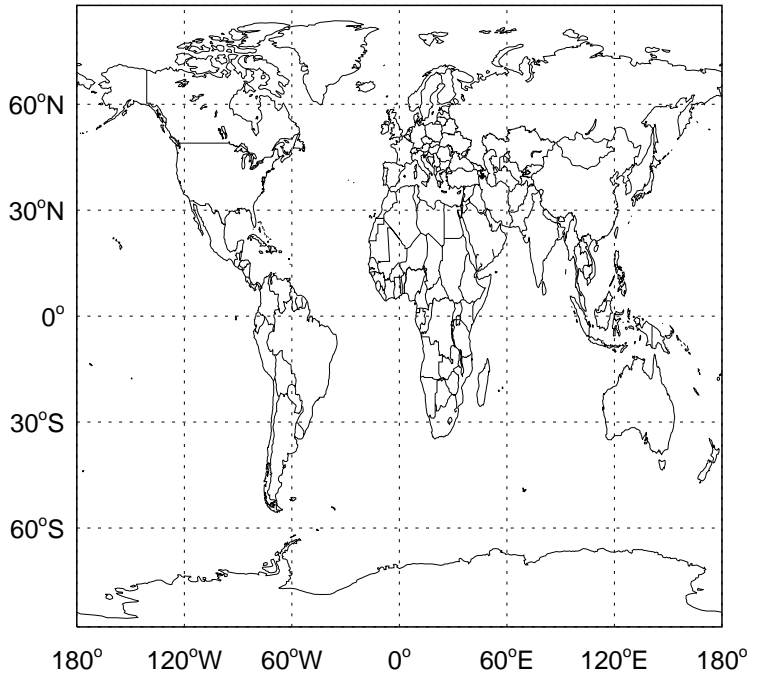
GC\_12.0.0 - v11-02f-Run1  
HCFC22- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HCFC22 - Diff @ Surface for Apr



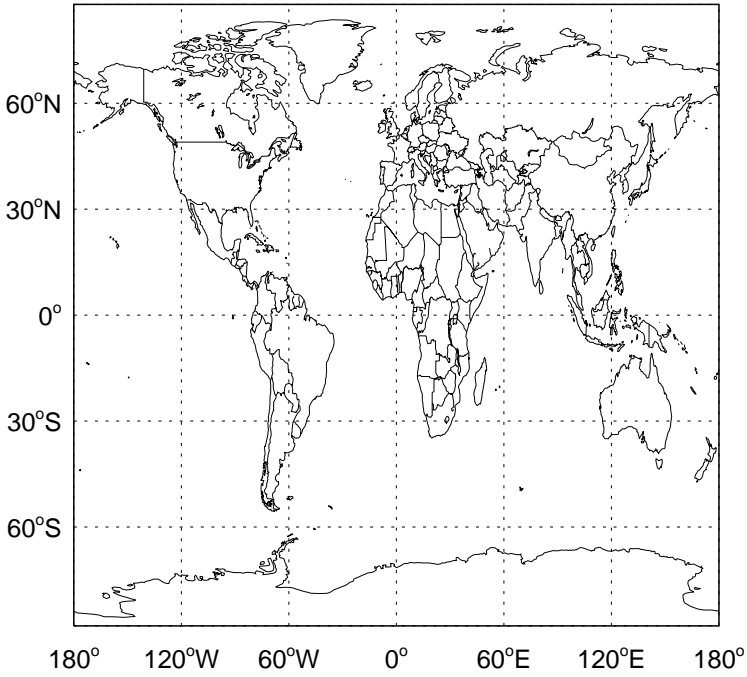
GC\_12.0.0 - v11-02e-Run1  
HCFC22- Diff @ 500 hPa for Apr





# GEOS-Chem Difference Maps at surface and 500 hPa

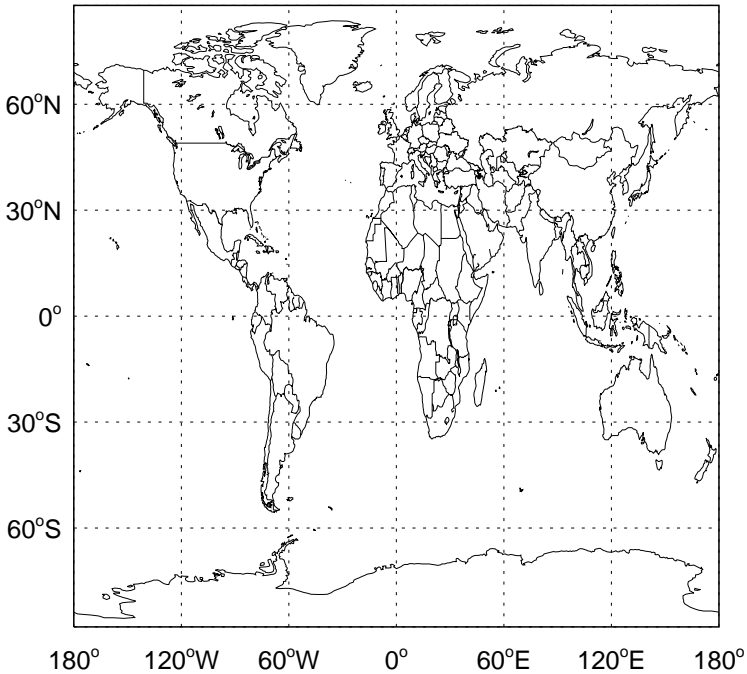
GC\_12.0.0 - v11-02f-Run1  
H1211 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
H1211- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
H1211 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
H1211- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

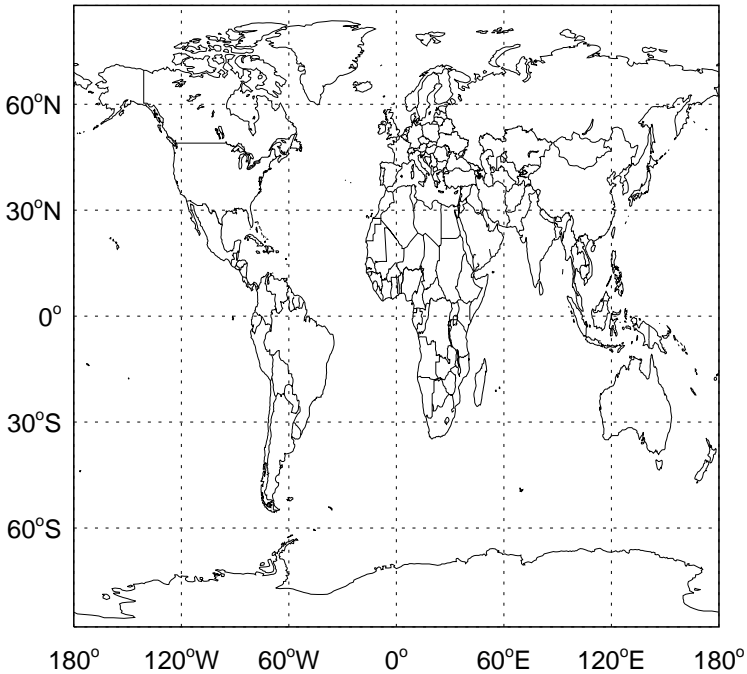
GC\_12.0.0 - v11-02f-Run1  
H1301 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
H1301- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
H1301 - Diff @ Surface for Apr

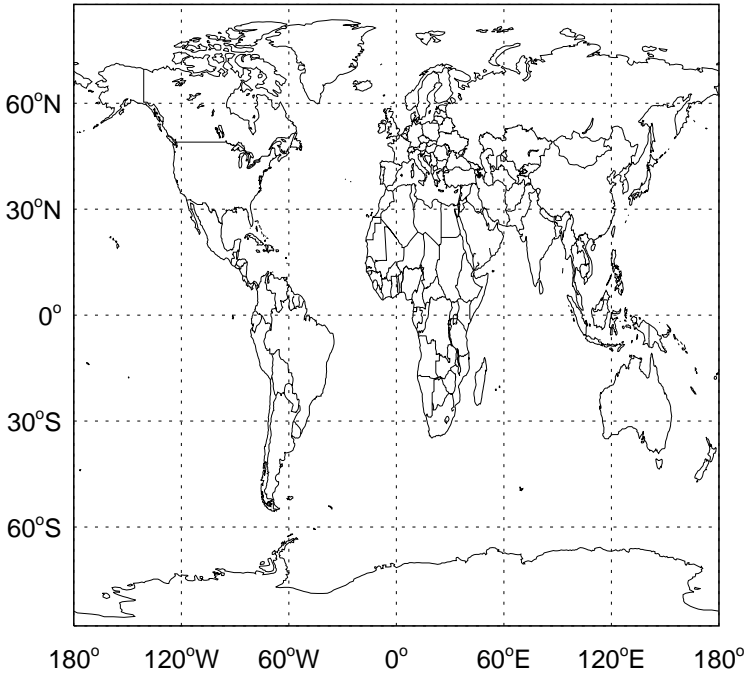


GC\_12.0.0 - v11-02e-Run1  
H1301- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

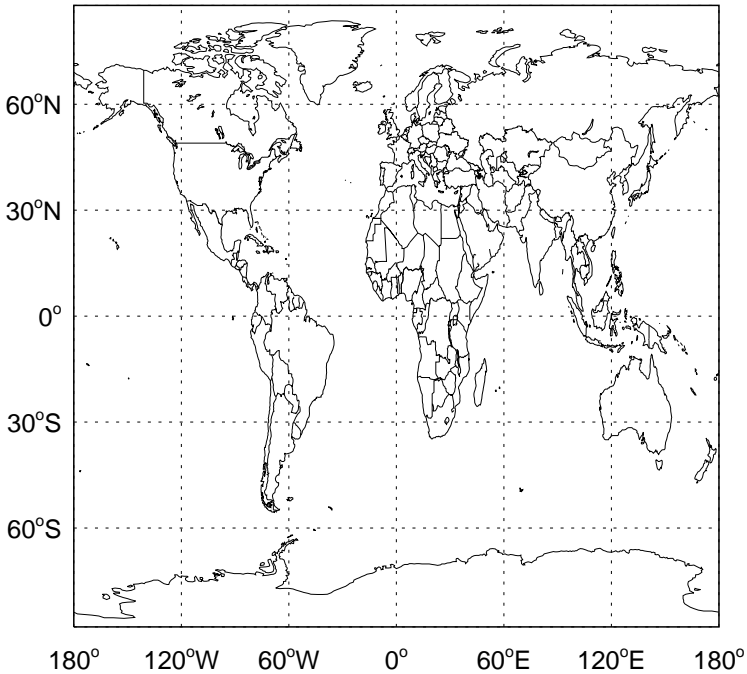
GC\_12.0.0 - v11-02f-Run1  
H2402 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
H2402- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
H2402 - Diff @ Surface for Apr



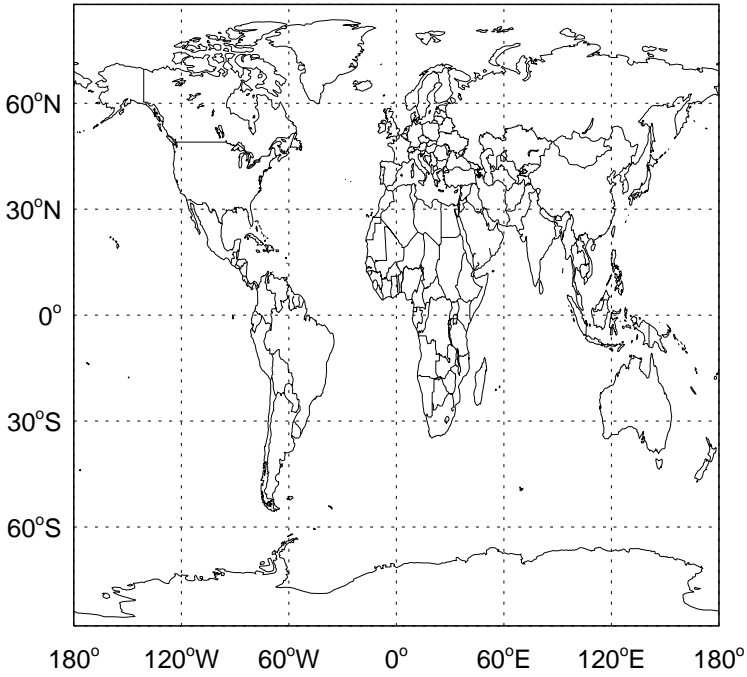
GC\_12.0.0 - v11-02e-Run1  
H2402- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

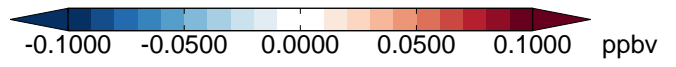
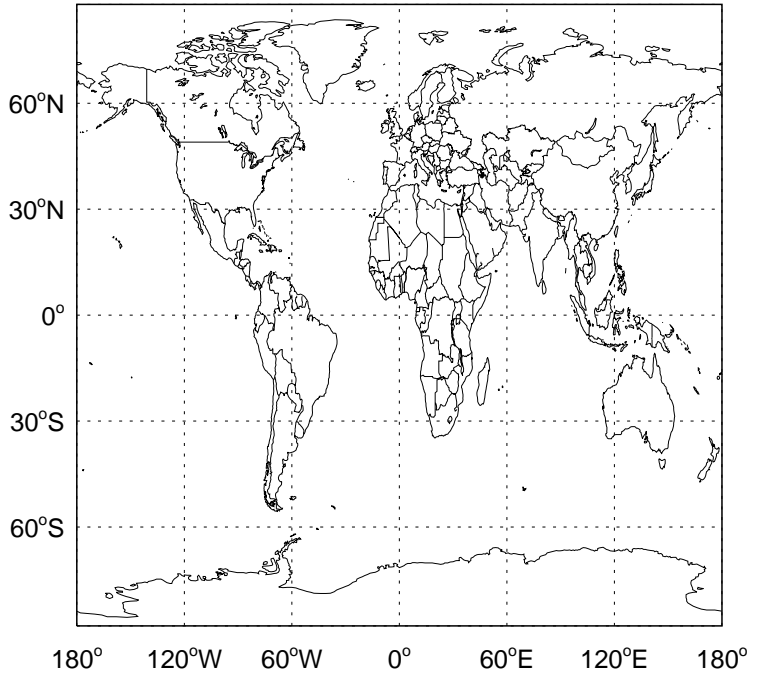
GC\_12.0.0 - v11-02f-Run1

Cl - Diff @ Surface for Apr



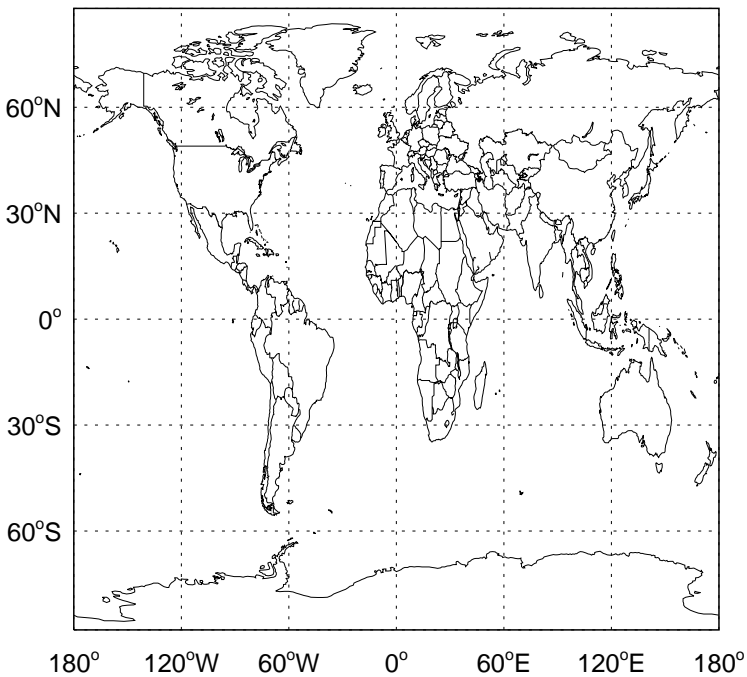
GC\_12.0.0 - v11-02f-Run1

Cl- Diff @ 500 hPa for Apr



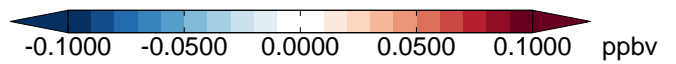
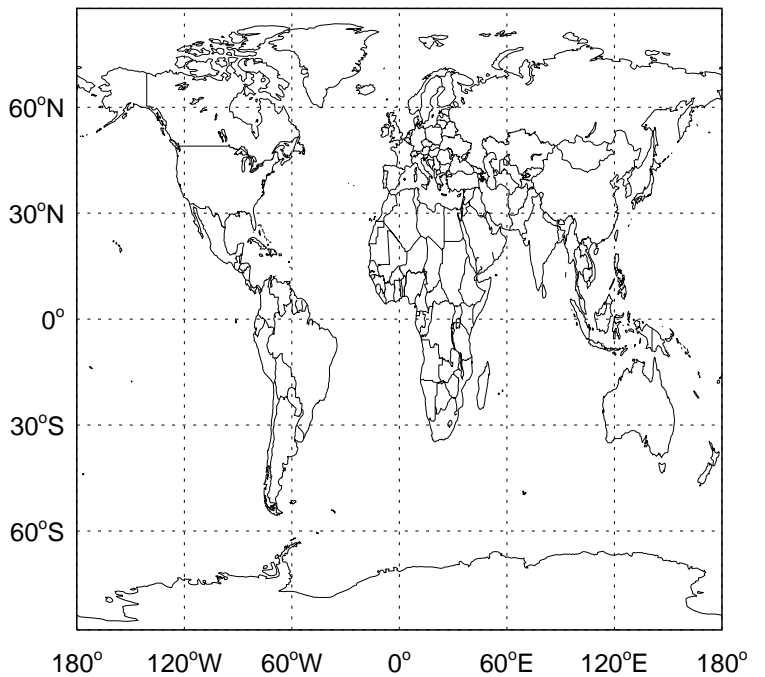
GC\_12.0.0 - v11-02e-Run1

Cl - Diff @ Surface for Apr



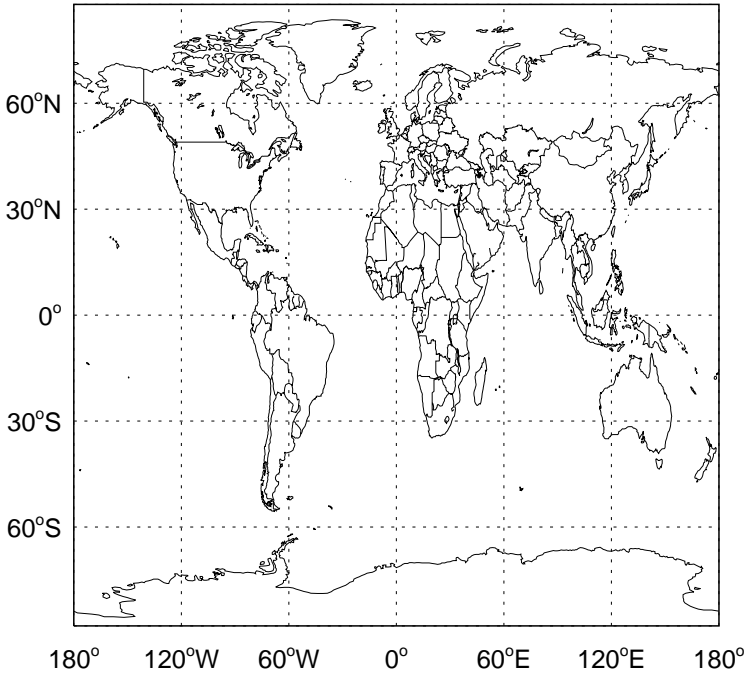
GC\_12.0.0 - v11-02e-Run1

Cl- Diff @ 500 hPa for Apr

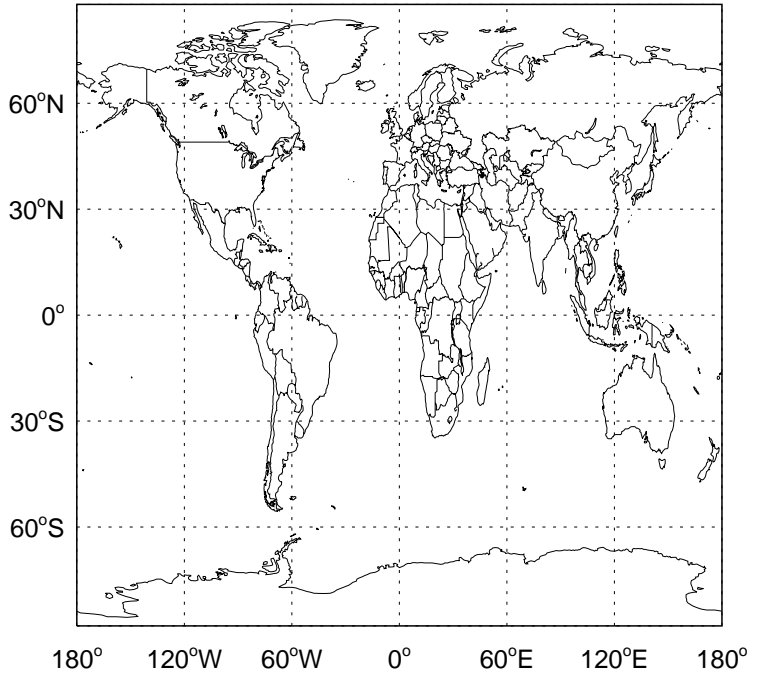


# GEOS-Chem Difference Maps at surface and 500 hPa

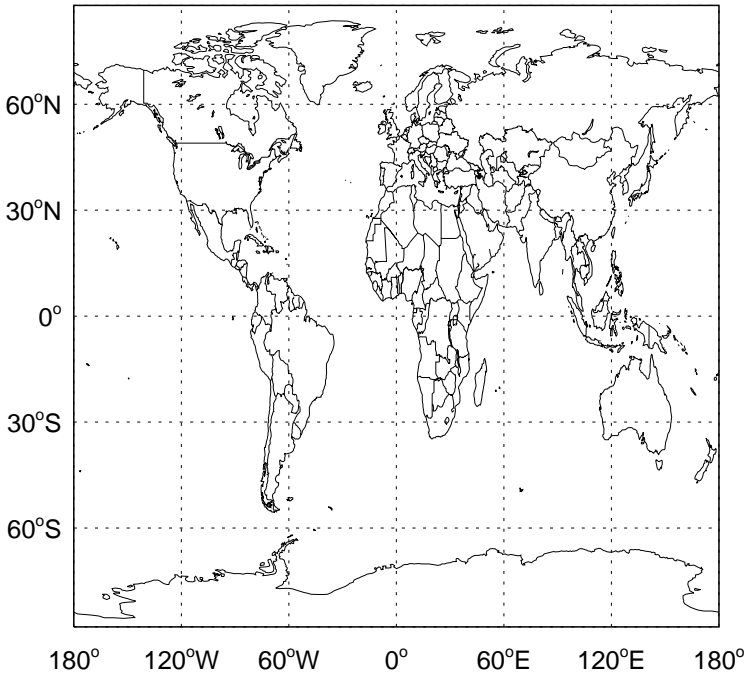
GC\_12.0.0 - v11-02f-Run1  
ClO - Diff @ Surface for Apr



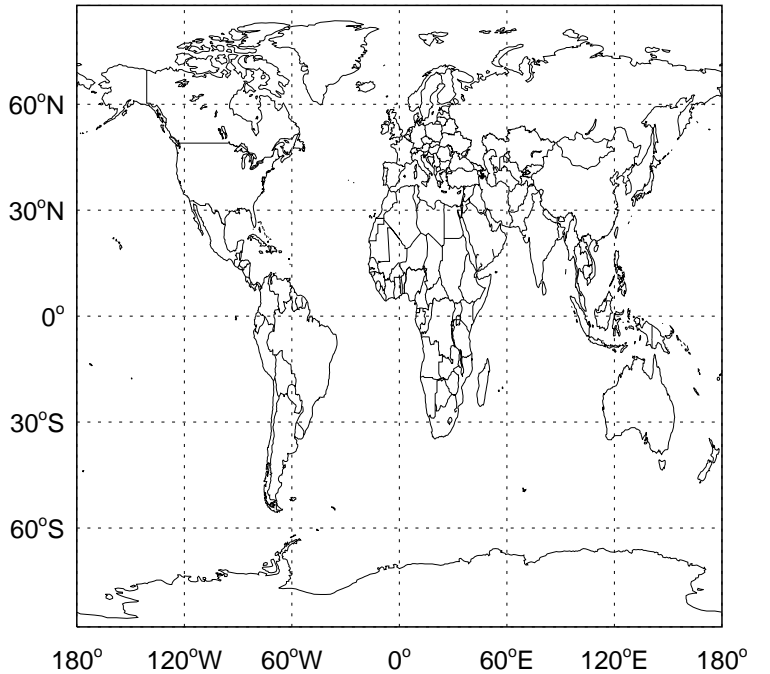
GC\_12.0.0 - v11-02f-Run1  
ClO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
ClO - Diff @ Surface for Apr

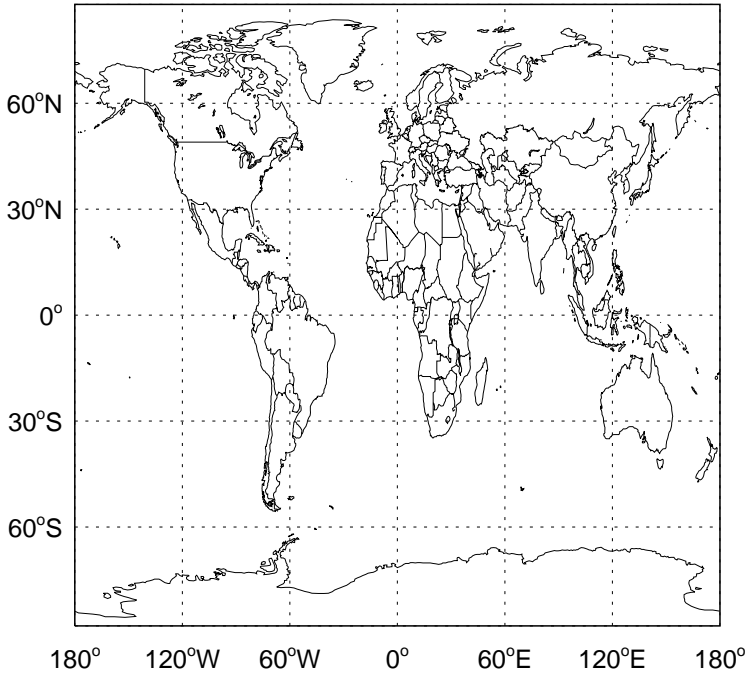


GC\_12.0.0 - v11-02e-Run1  
ClO- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

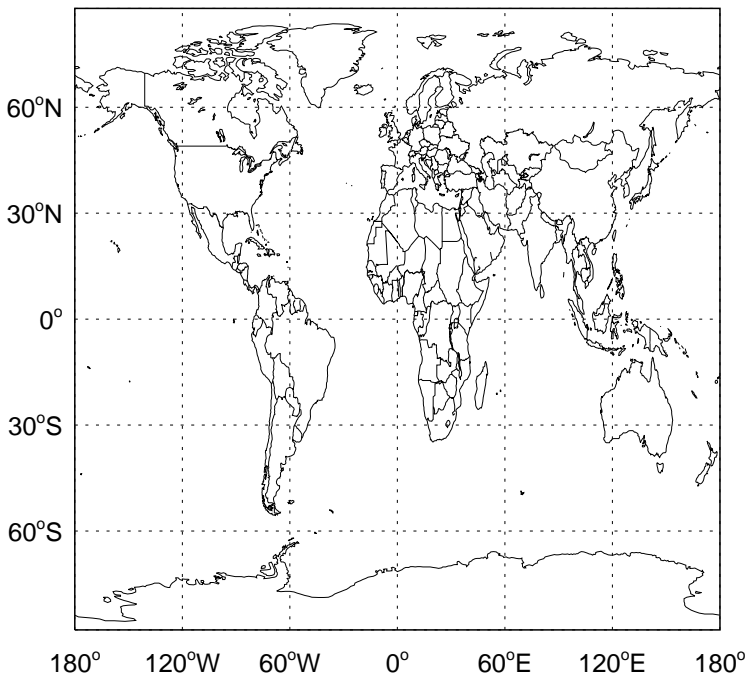
GC\_12.0.0 - v11-02f-Run1  
HOCl - Diff @ Surface for Apr



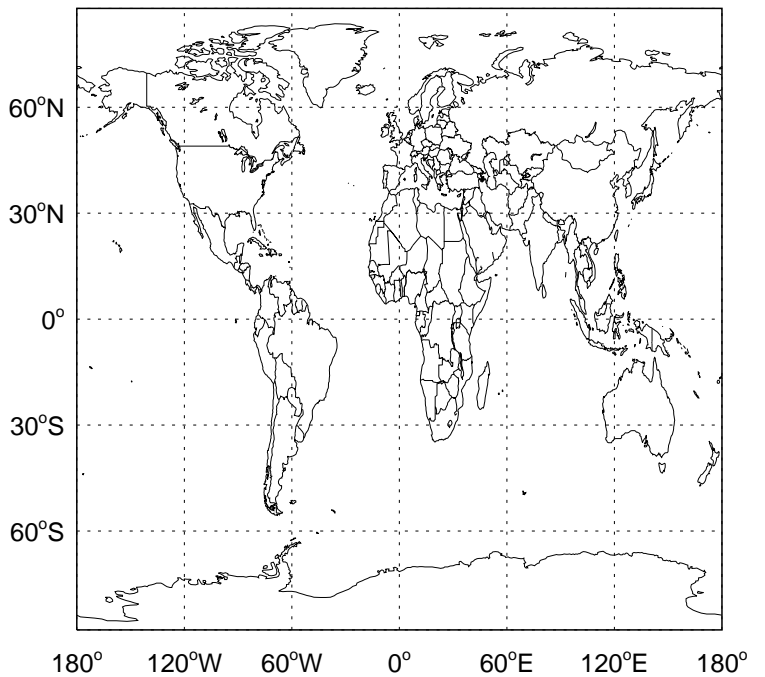
GC\_12.0.0 - v11-02f-Run1  
HOCl- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HOCl - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
HOCl- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

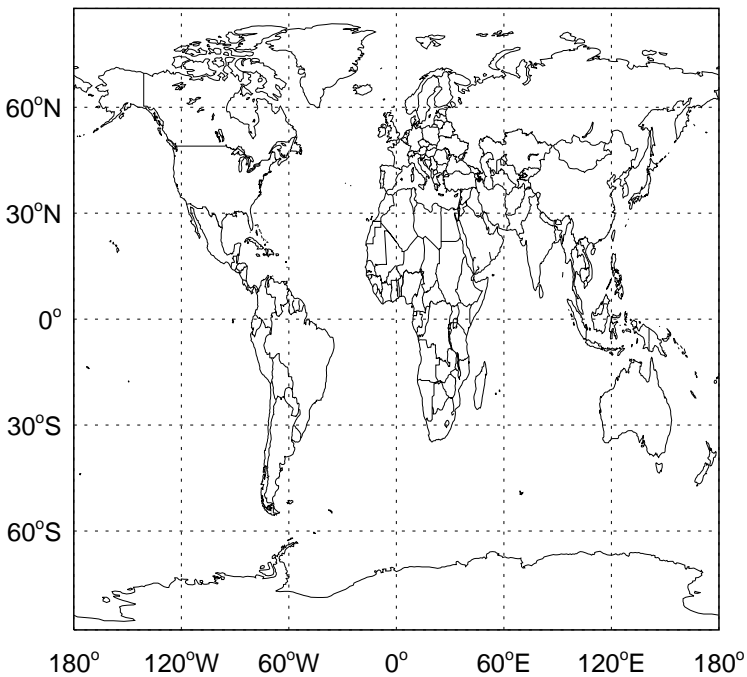
GC\_12.0.0 - v11-02f-Run1  
CINO3 - Diff @ Surface for Apr



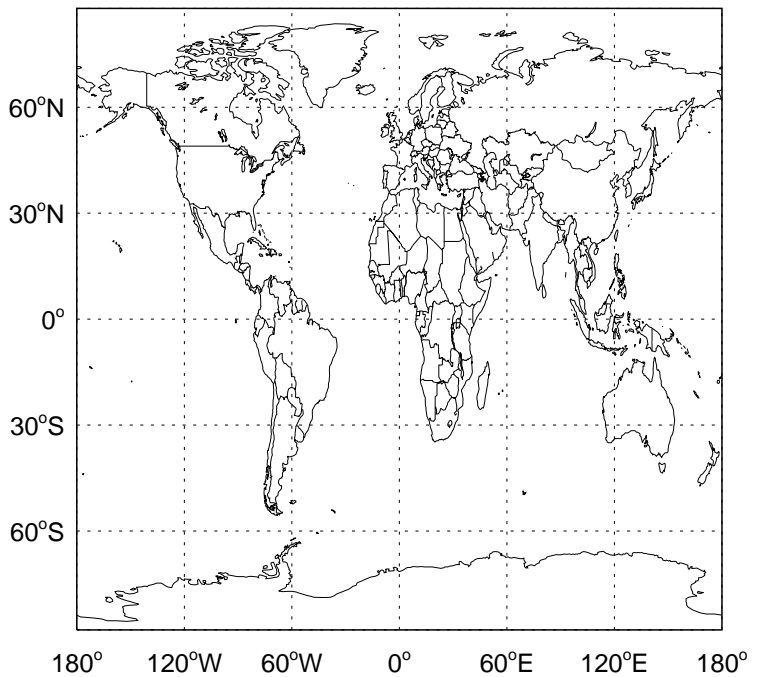
GC\_12.0.0 - v11-02f-Run1  
CINO3- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CINO3 - Diff @ Surface for Apr

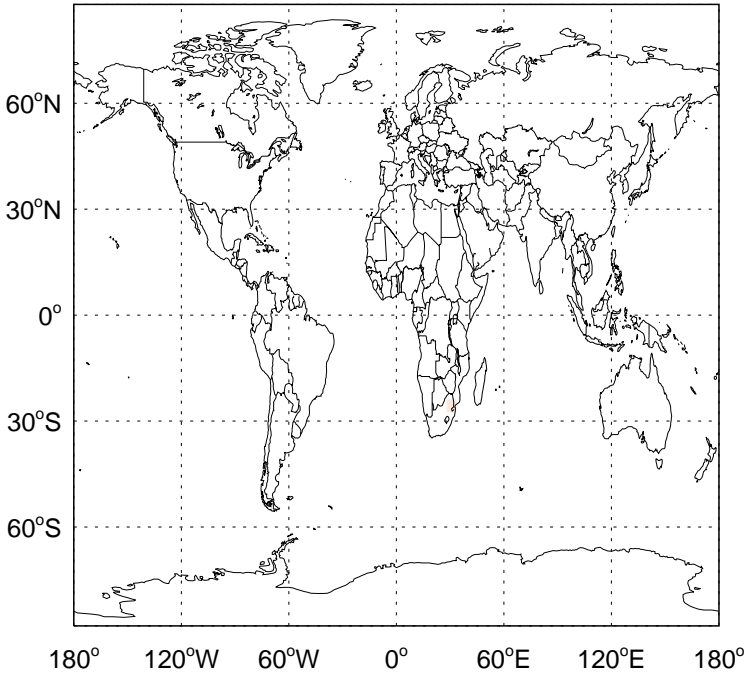


GC\_12.0.0 - v11-02e-Run1  
CINO3- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

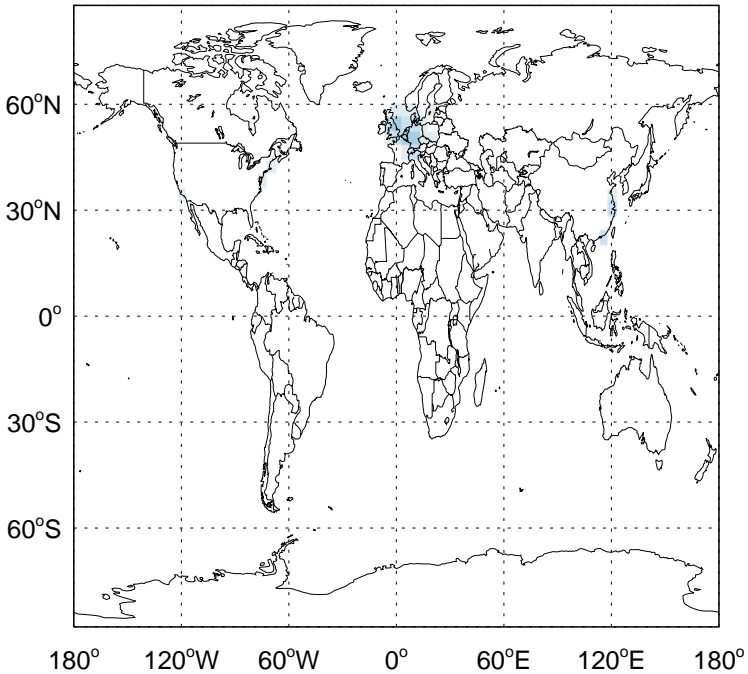
GC\_12.0.0 - v11-02f-Run1  
CINO2 - Diff @ Surface for Apr



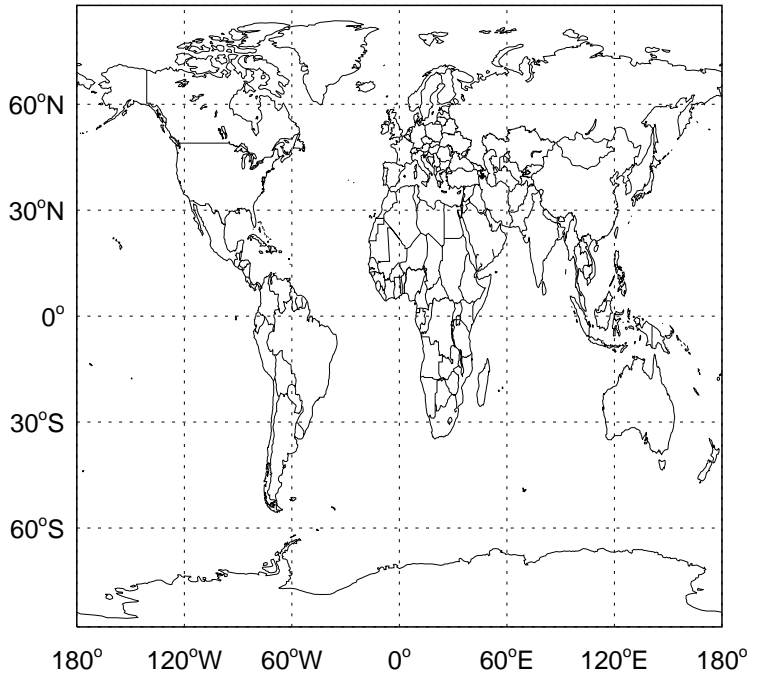
GC\_12.0.0 - v11-02f-Run1  
CINO2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
CINO2 - Diff @ Surface for Apr



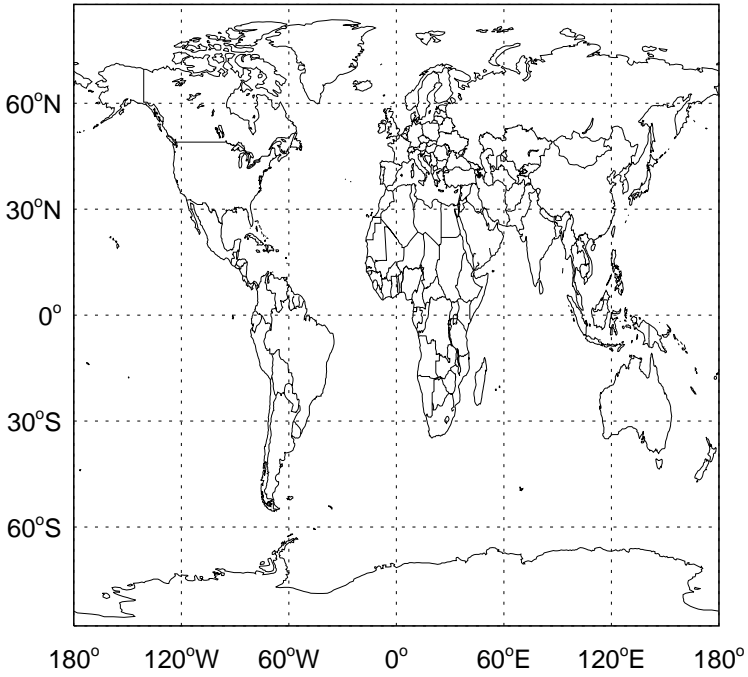
GC\_12.0.0 - v11-02e-Run1  
CINO2- Diff @ 500 hPa for Apr



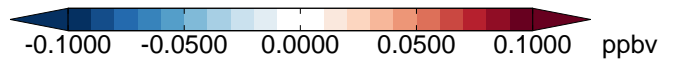


# GEOS-Chem Difference Maps at surface and 500 hPa

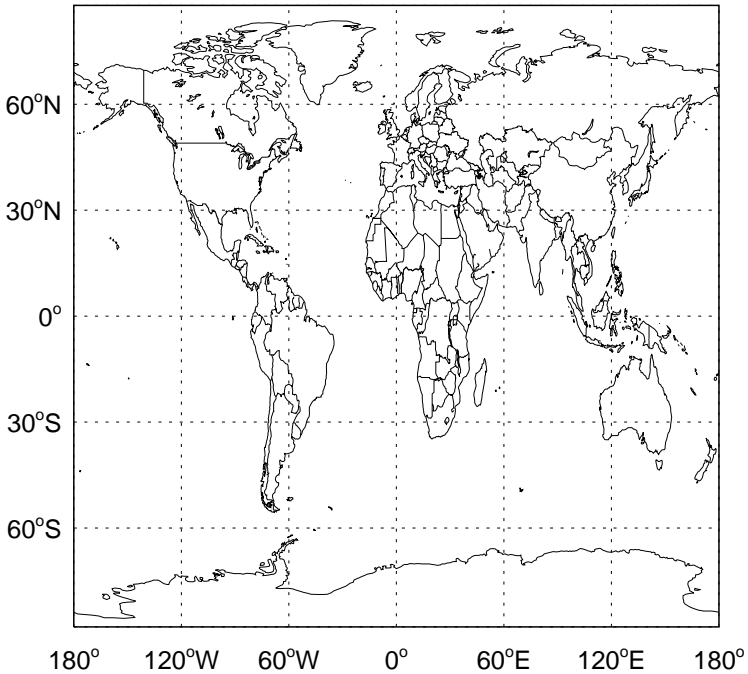
GC\_12.0.0 - v11-02f-Run1  
C10O - Diff @ Surface for Apr



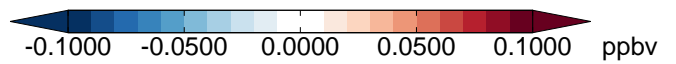
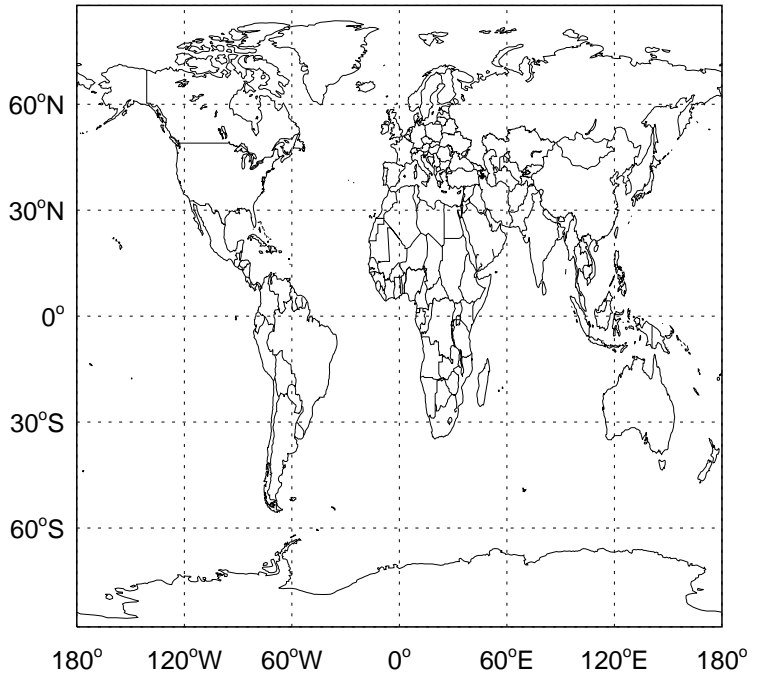
GC\_12.0.0 - v11-02f-Run1  
C10O- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
C10O - Diff @ Surface for Apr

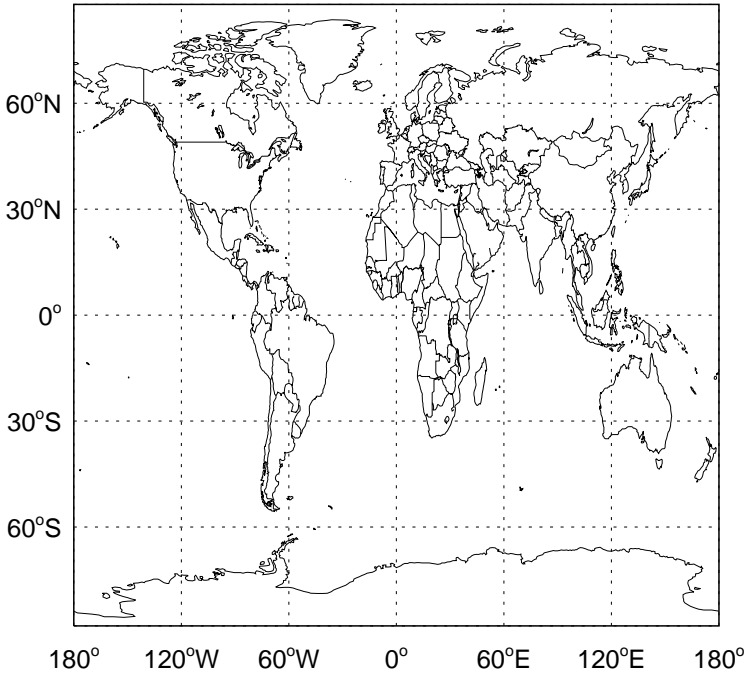


GC\_12.0.0 - v11-02e-Run1  
C10O- Diff @ 500 hPa for Apr

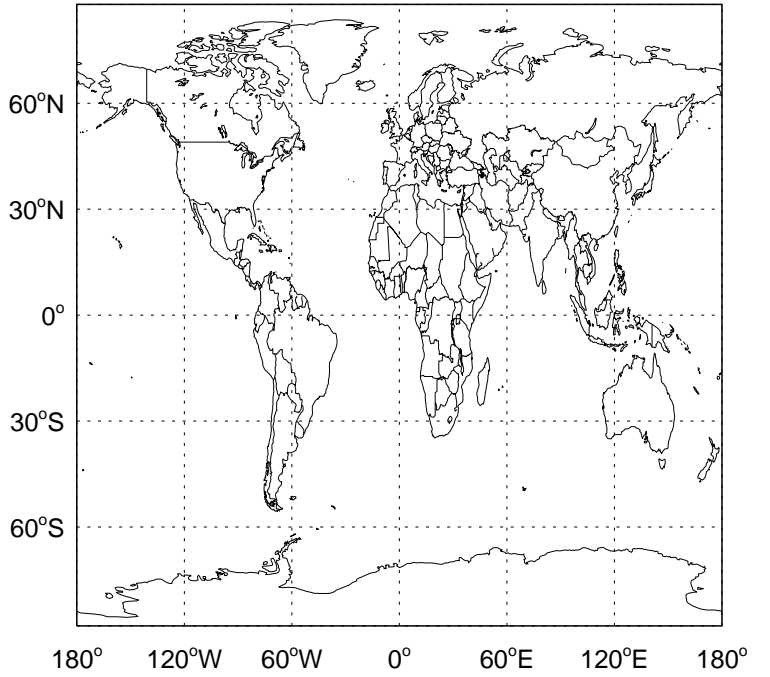


# GEOS-Chem Difference Maps at surface and 500 hPa

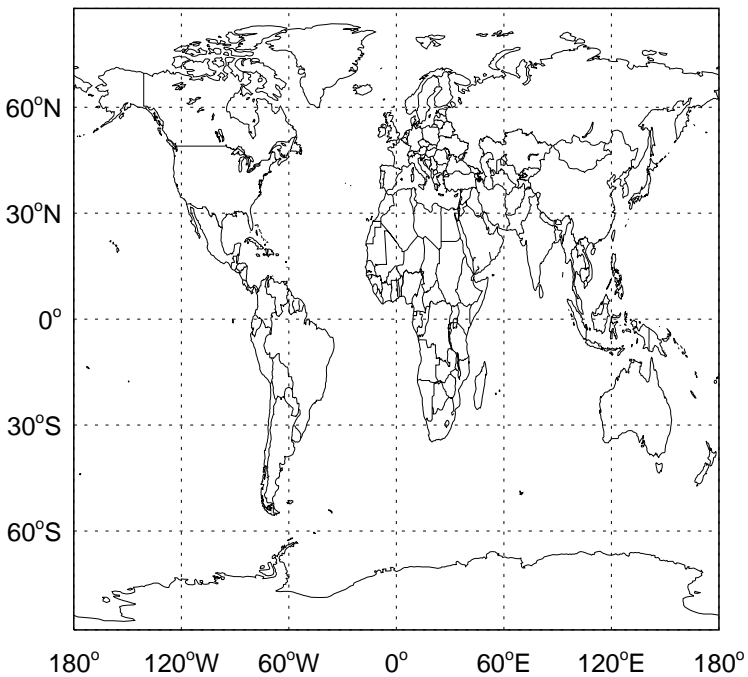
GC\_12.0.0 - v11-02f-Run1  
OCIO - Diff @ Surface for Apr



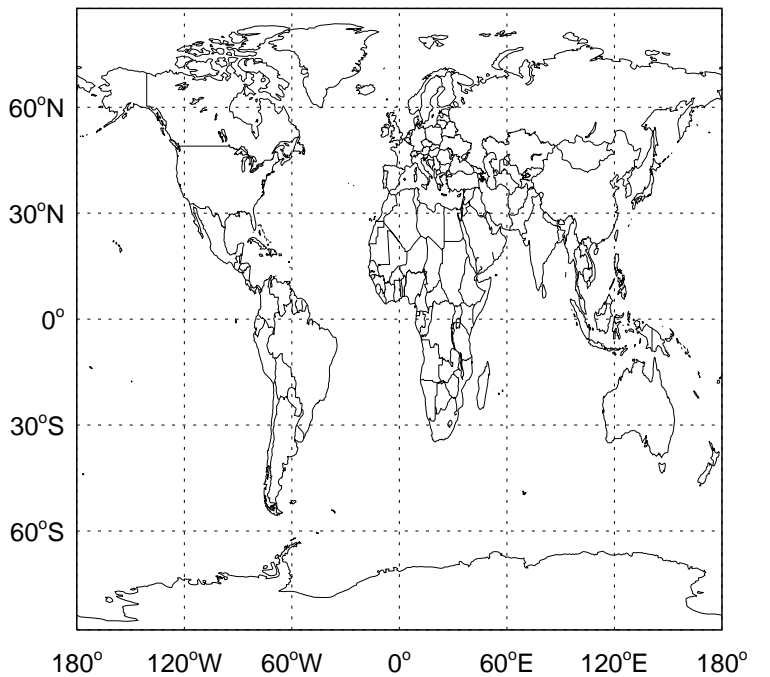
GC\_12.0.0 - v11-02f-Run1  
OCIO- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
OCIO - Diff @ Surface for Apr

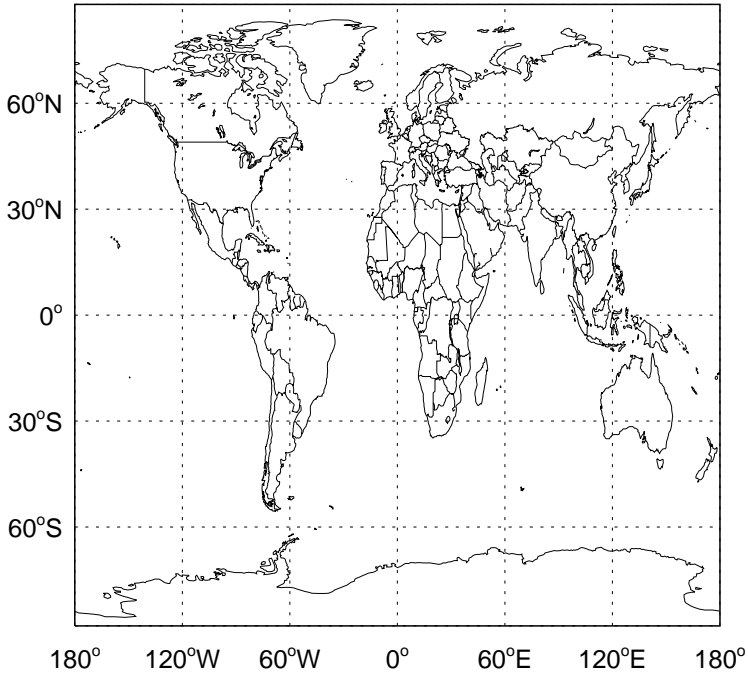


GC\_12.0.0 - v11-02e-Run1  
OCIO- Diff @ 500 hPa for Apr

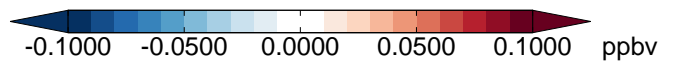


# GEOS-Chem Difference Maps at surface and 500 hPa

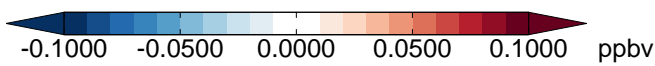
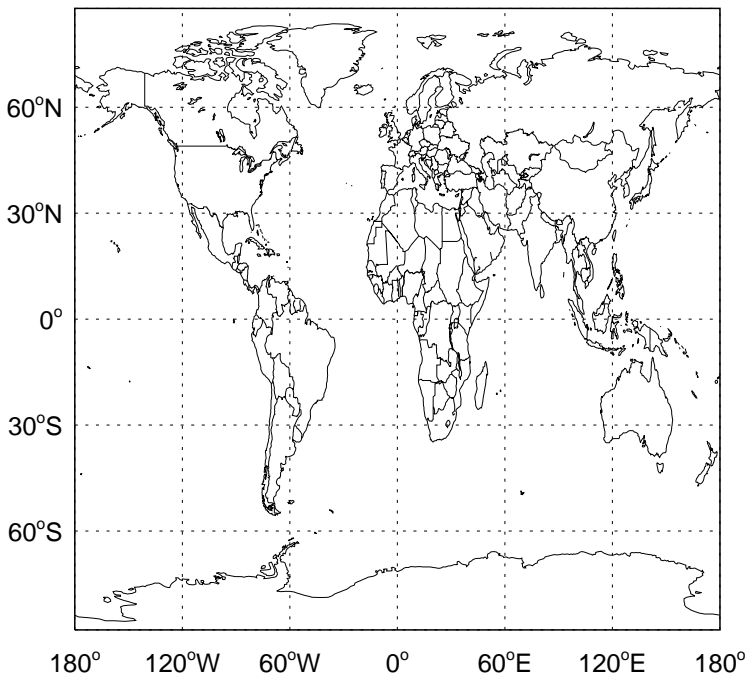
GC\_12.0.0 - v11-02f-Run1  
Cl2 - Diff @ Surface for Apr



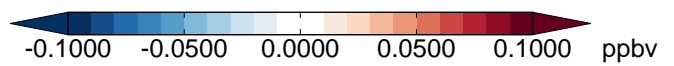
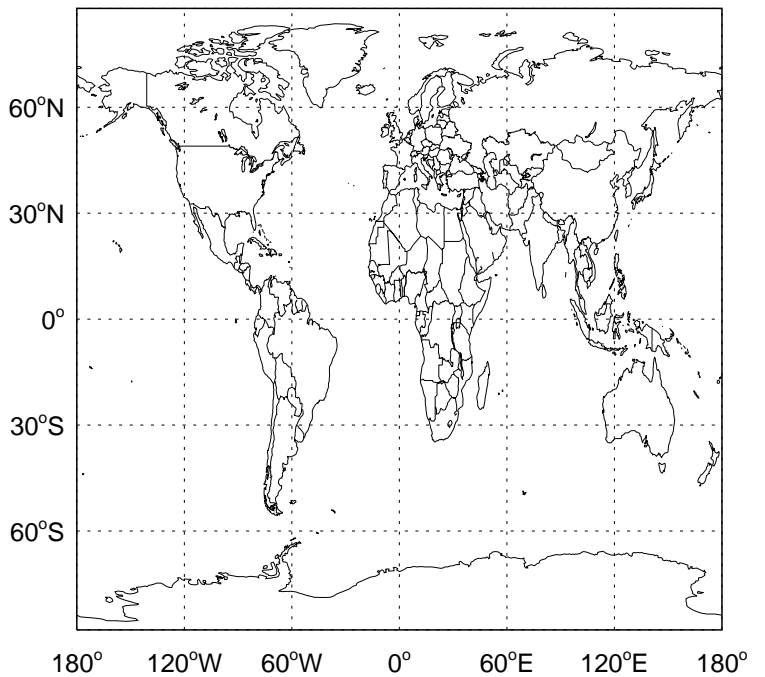
GC\_12.0.0 - v11-02f-Run1  
Cl2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
Cl2 - Diff @ Surface for Apr

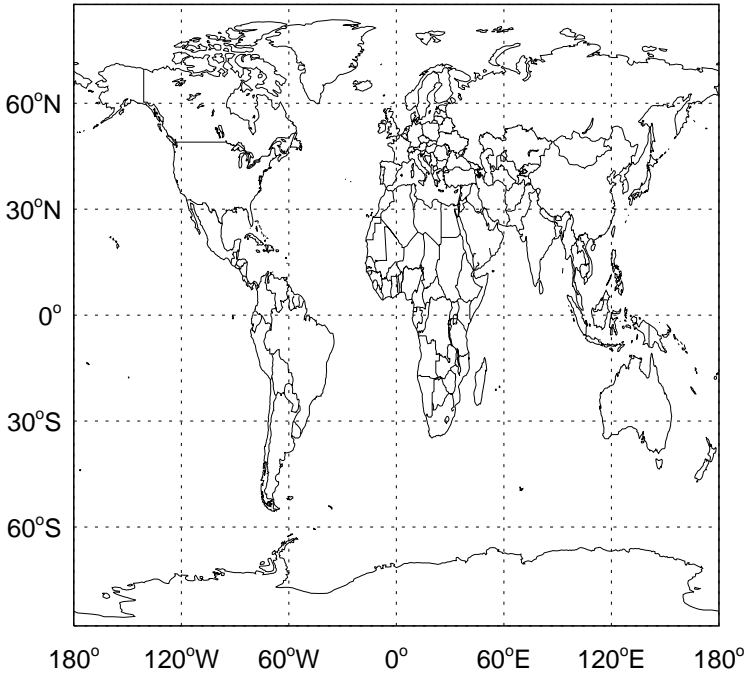


GC\_12.0.0 - v11-02e-Run1  
Cl2- Diff @ 500 hPa for Apr



# GEOS-Chem Difference Maps at surface and 500 hPa

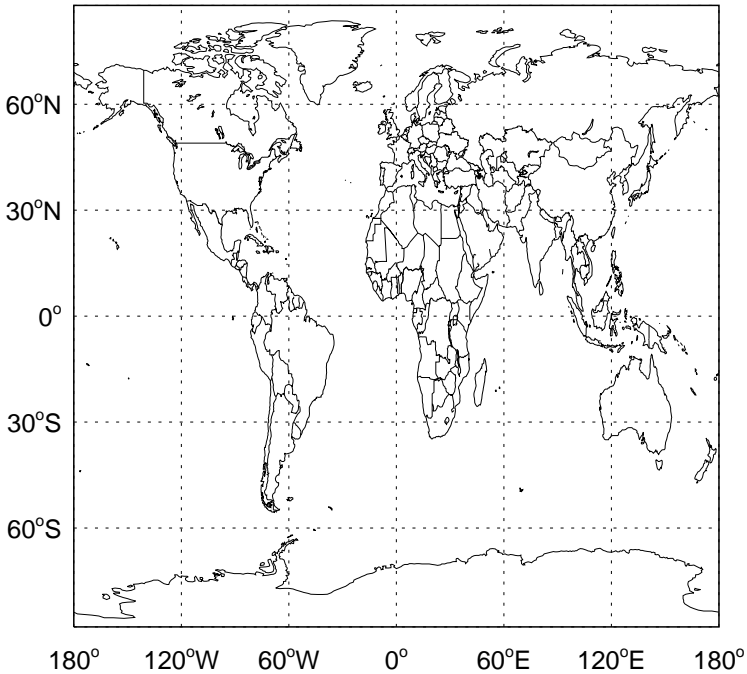
GC\_12.0.0 - v11-02f-Run1  
Cl2O2 - Diff @ Surface for Apr



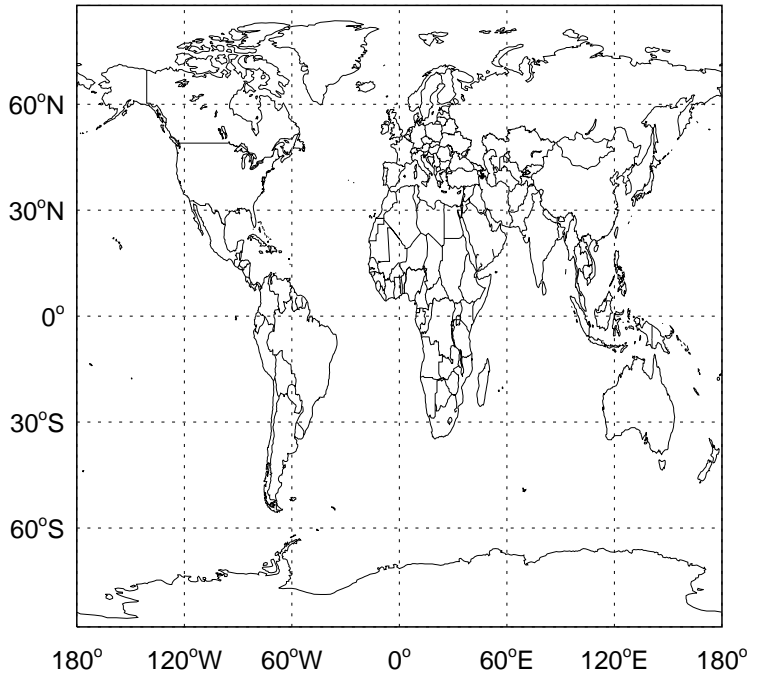
GC\_12.0.0 - v11-02f-Run1  
Cl2O2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
Cl2O2 - Diff @ Surface for Apr

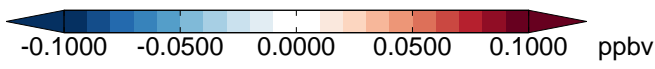


GC\_12.0.0 - v11-02e-Run1  
Cl2O2- Diff @ 500 hPa for Apr

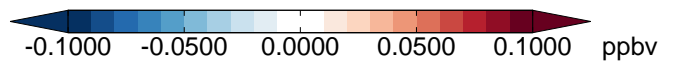


# GEOS-Chem Difference Maps at surface and 500 hPa

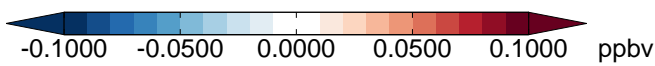
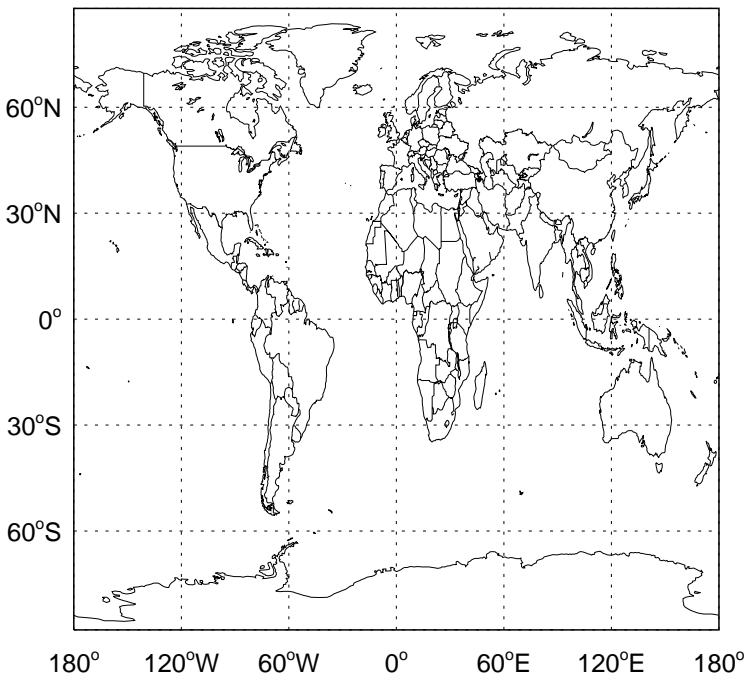
GC\_12.0.0 - v11-02f-Run1  
H2O - Diff @ Surface for Apr



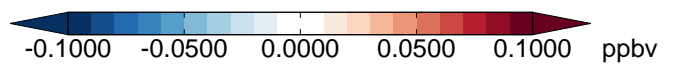
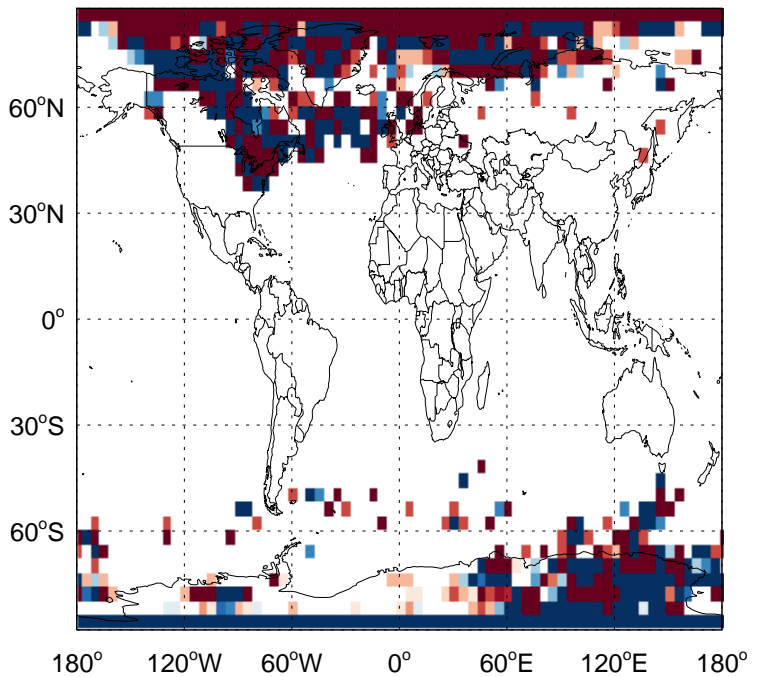
GC\_12.0.0 - v11-02f-Run1  
H2O- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
H2O - Diff @ Surface for Apr

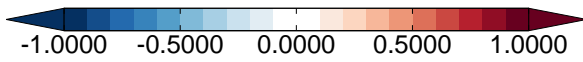
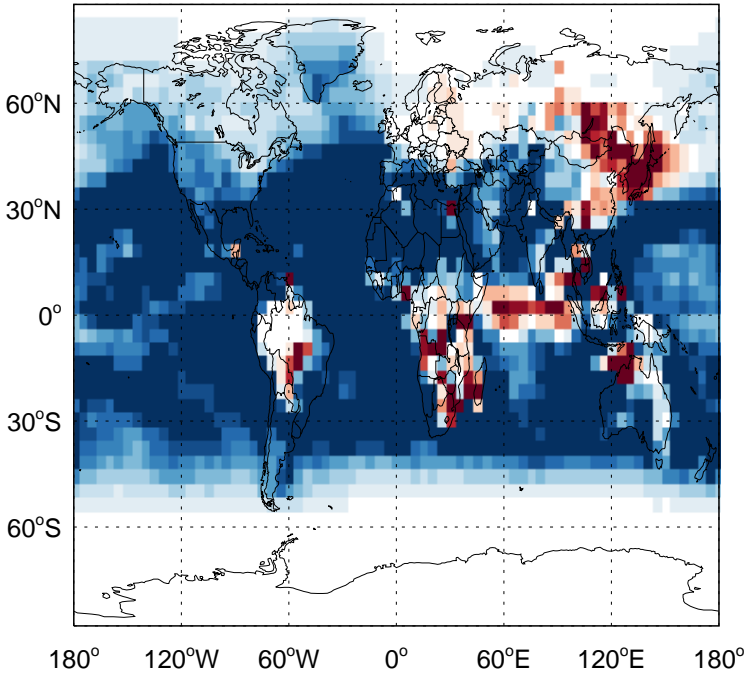


GC\_12.0.0 - v11-02e-Run1  
H2O- Diff @ 500 hPa for Apr

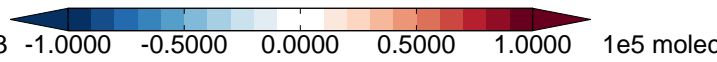
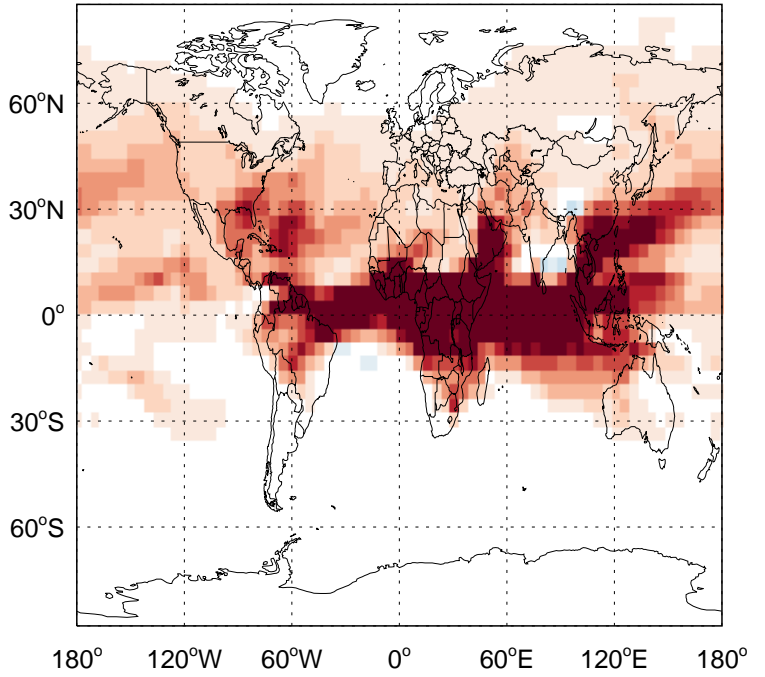


# GEOS-Chem Difference Maps at surface and 500 hPa

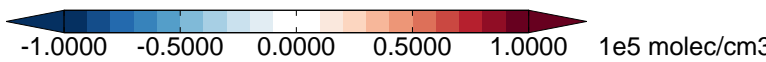
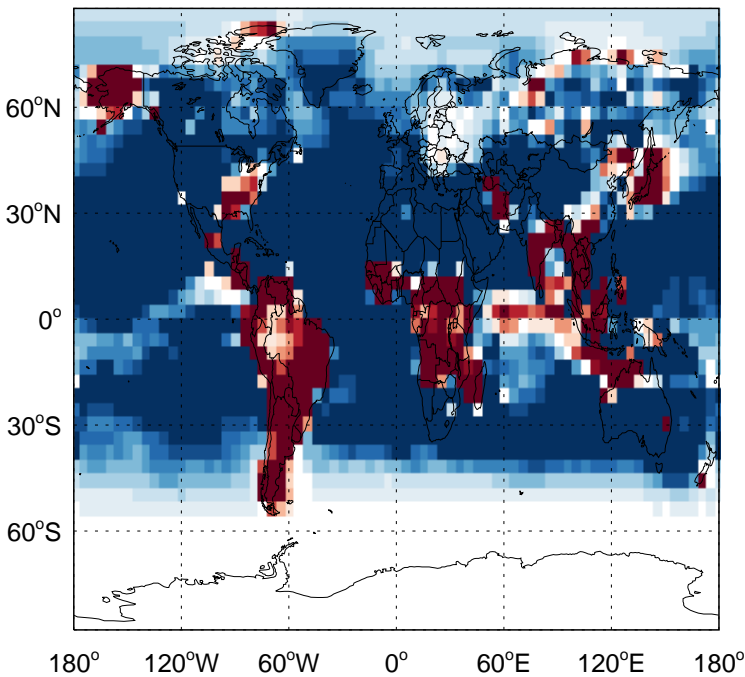
GC\_12.0.0 - v11-02f-Run1  
OH - Diff @ Surface for Apr



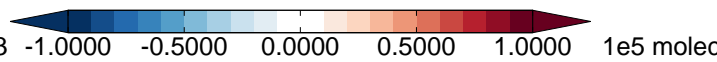
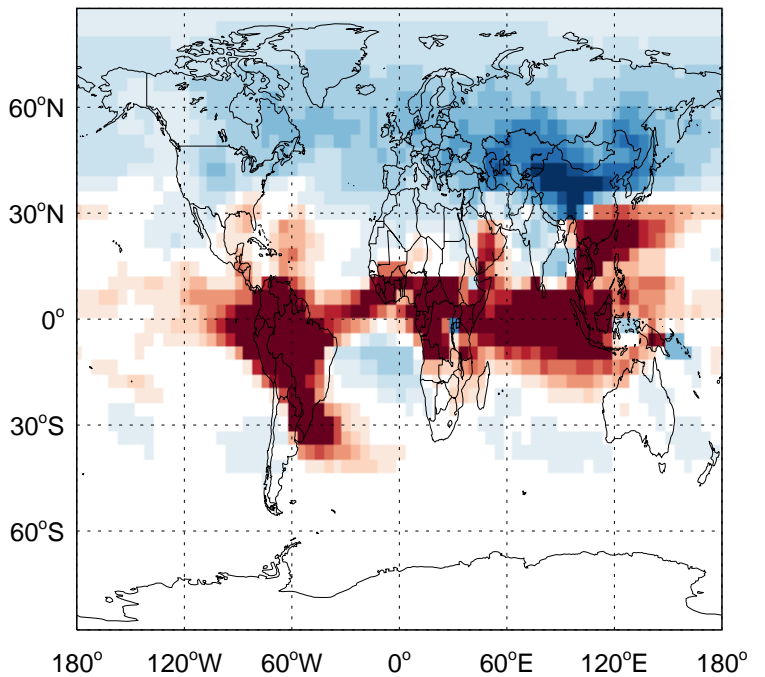
GC\_12.0.0 - v11-02f-Run1  
OH- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
OH - Diff @ Surface for Apr

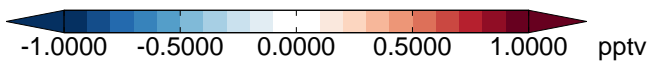
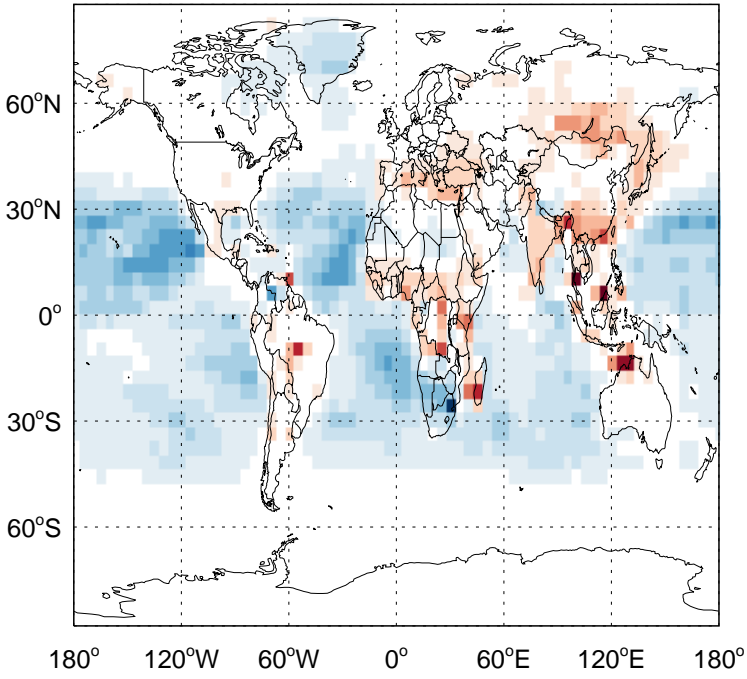


GC\_12.0.0 - v11-02e-Run1  
OH- Diff @ 500 hPa for Apr

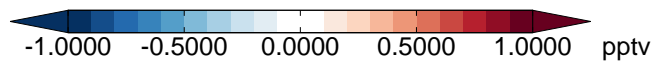
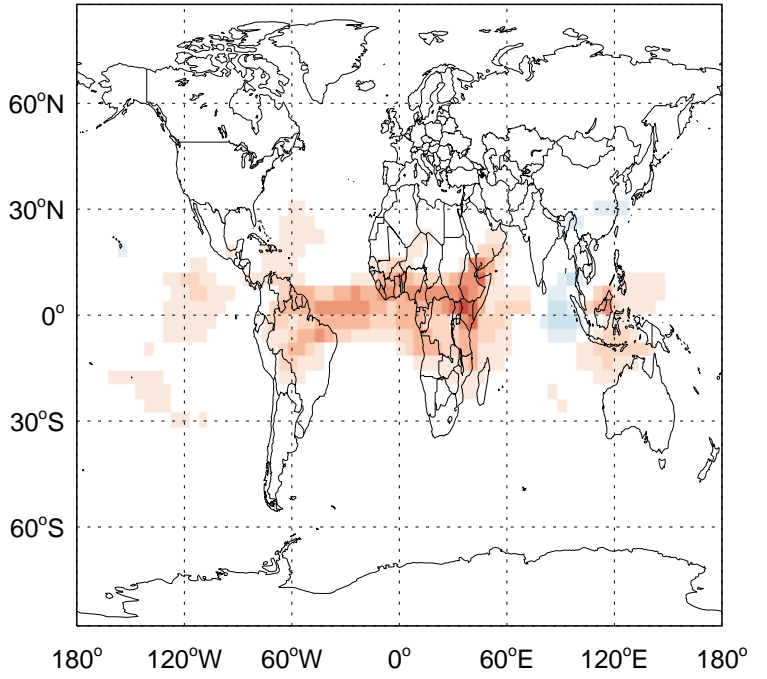


# GEOS-Chem Difference Maps at surface and 500 hPa

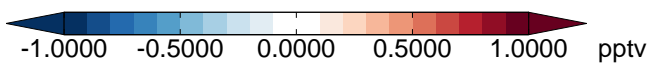
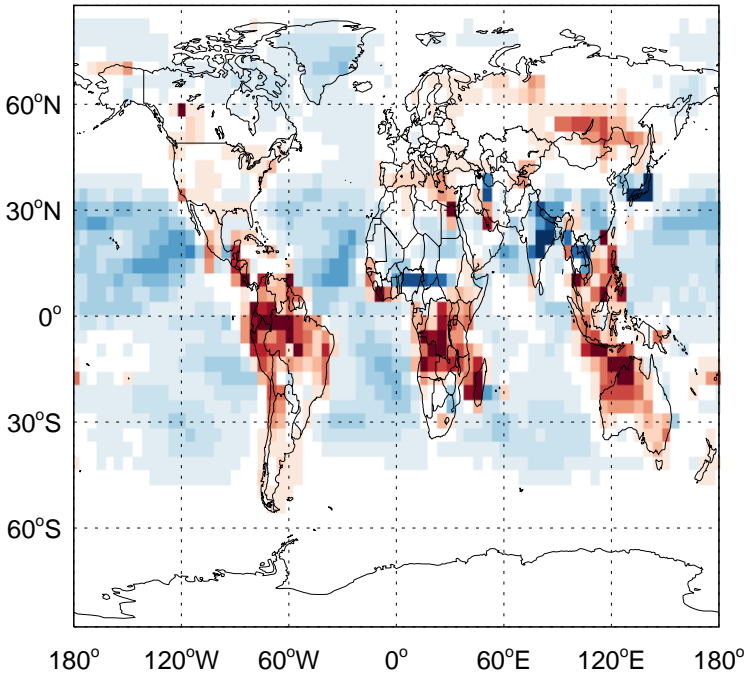
GC\_12.0.0 - v11-02f-Run1  
HO2 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02f-Run1  
HO2- Diff @ 500 hPa for Apr



GC\_12.0.0 - v11-02e-Run1  
HO2 - Diff @ Surface for Apr



GC\_12.0.0 - v11-02e-Run1  
HO2- Diff @ 500 hPa for Apr

