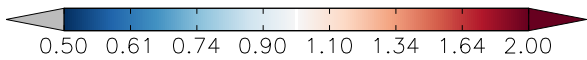
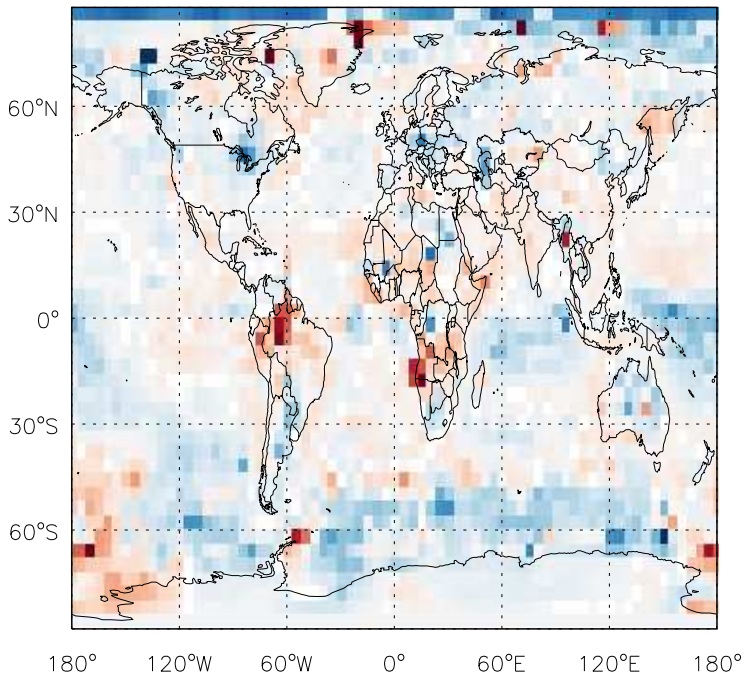
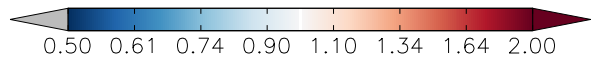
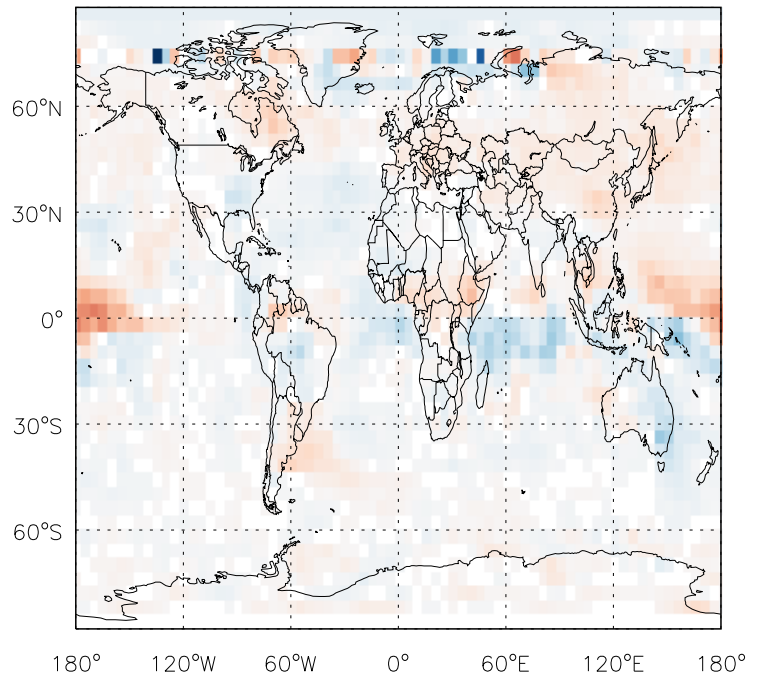


GEOS-Chem Ratio Maps at surface and 500 hPa

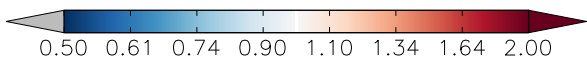
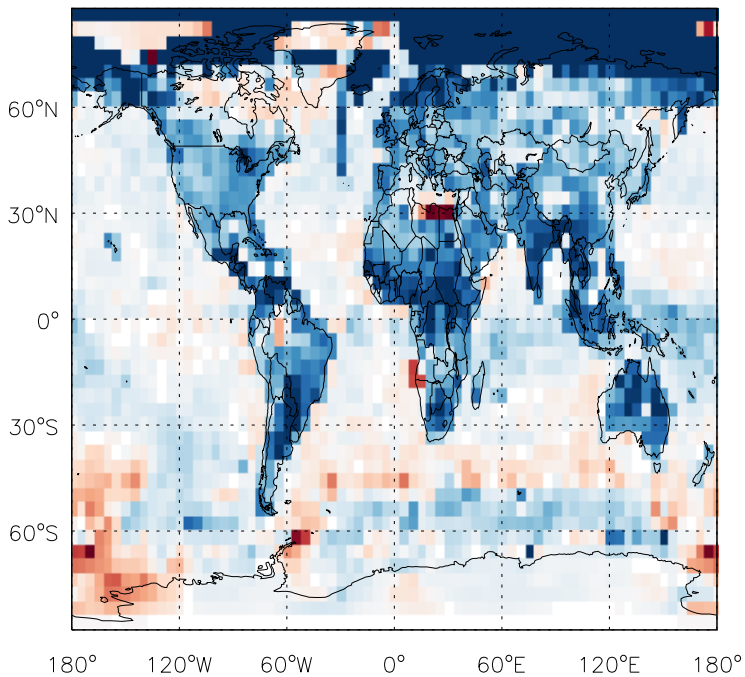
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO / Ratio @ Surface for Jan



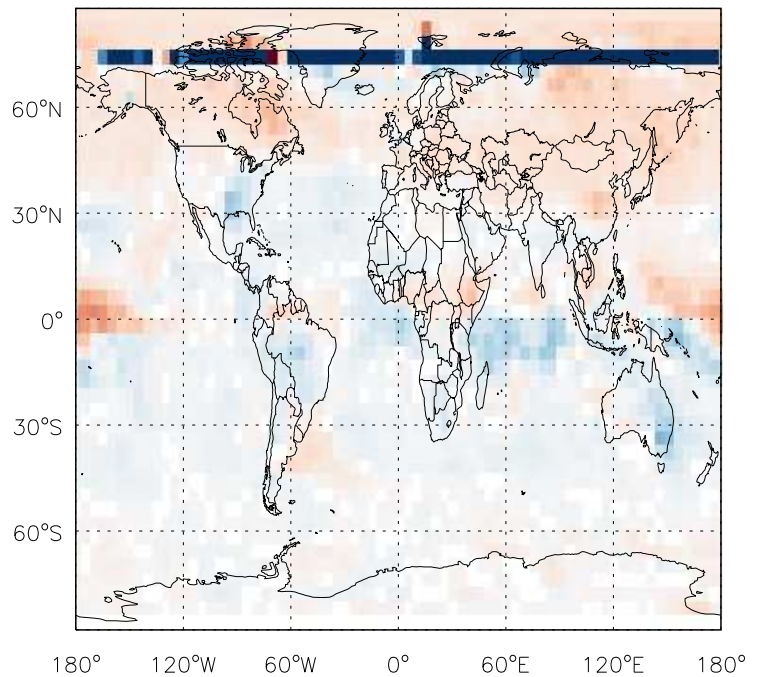
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NO / Ratio @ Surface for Jan

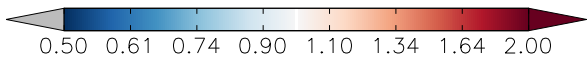
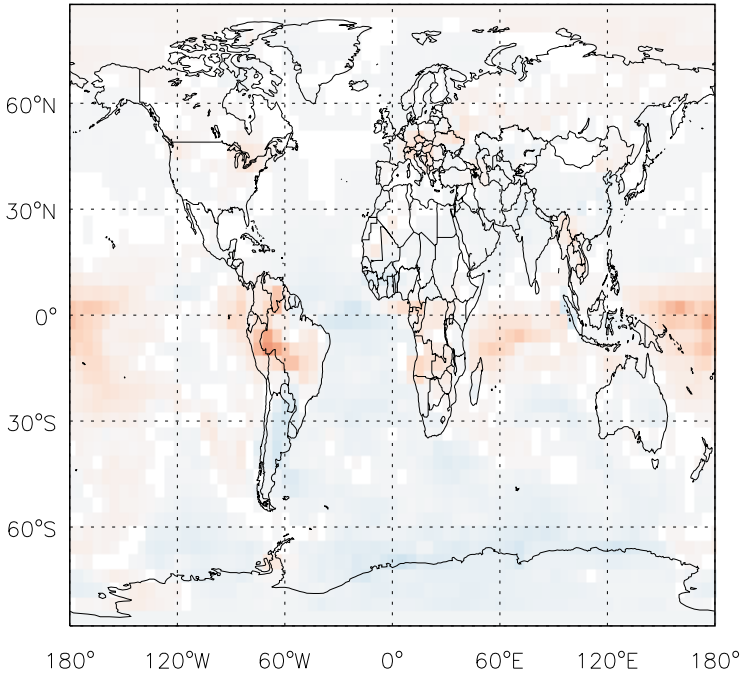


v11-01f-merra2-Run0 / v11-01d-Run1  
NO / Ratio @ 500 hPa for Jan

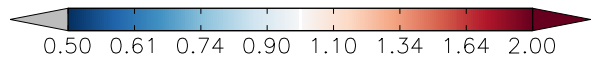
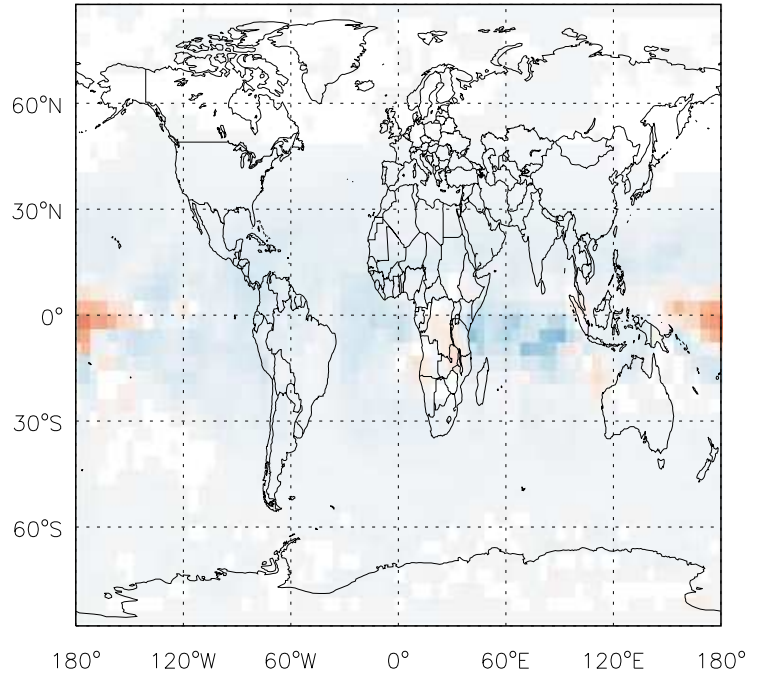


GEOS-Chem Ratio Maps at surface and 500 hPa

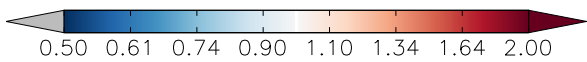
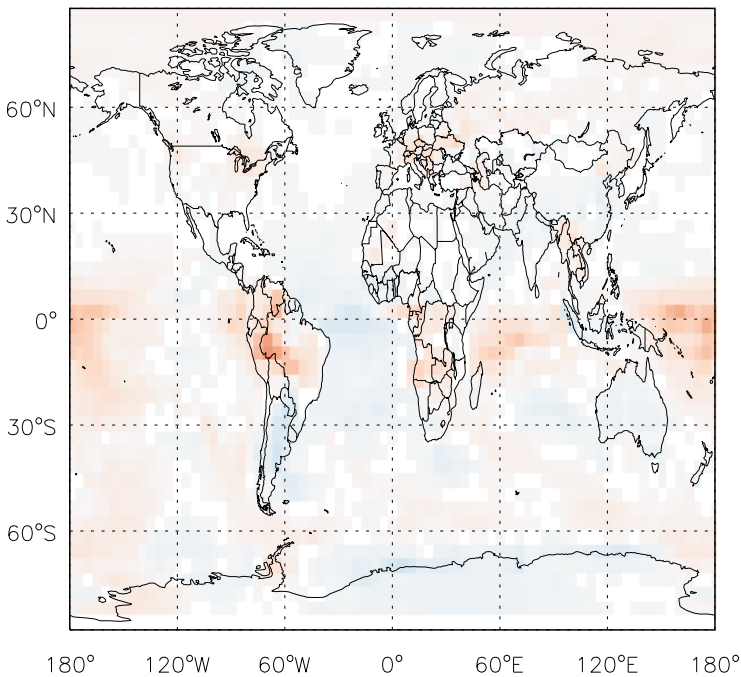
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O3 / Ratio @ Surface for Jan



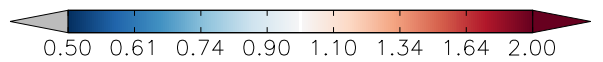
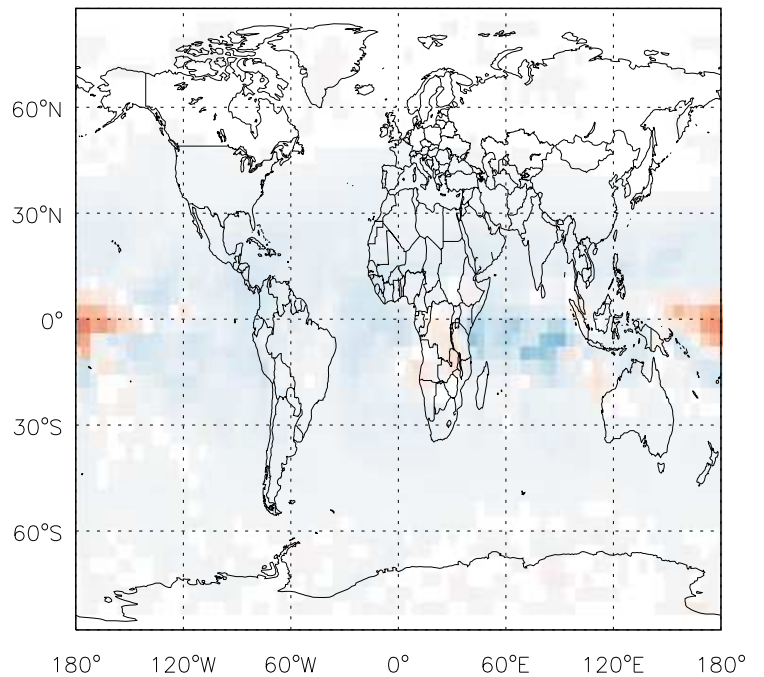
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
O3/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
O3 / Ratio @ Surface for Jan

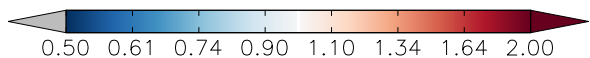
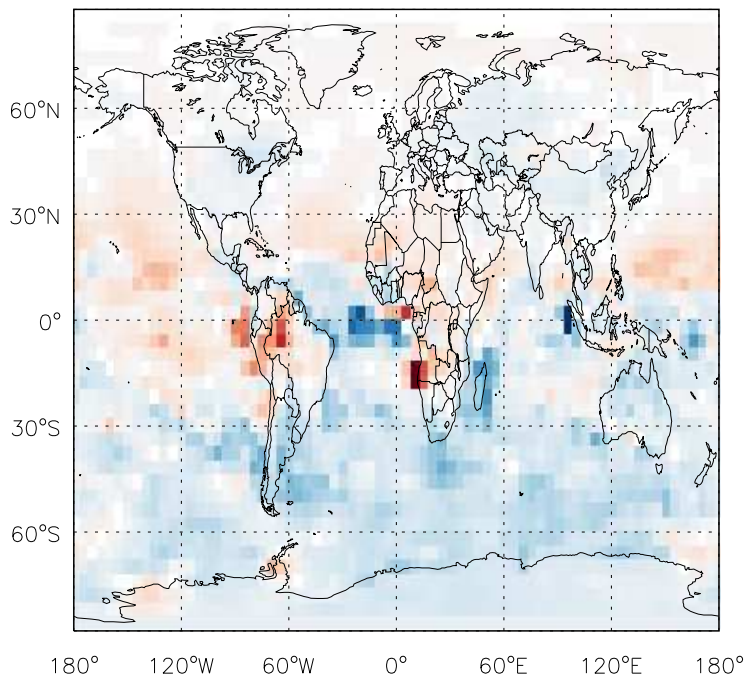


v11-01f-merra2-Run0 / v11-01d-Run1  
O3/ Ratio @ 500 hPa for Jan

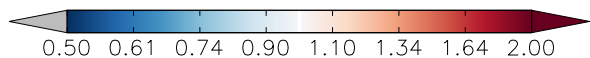
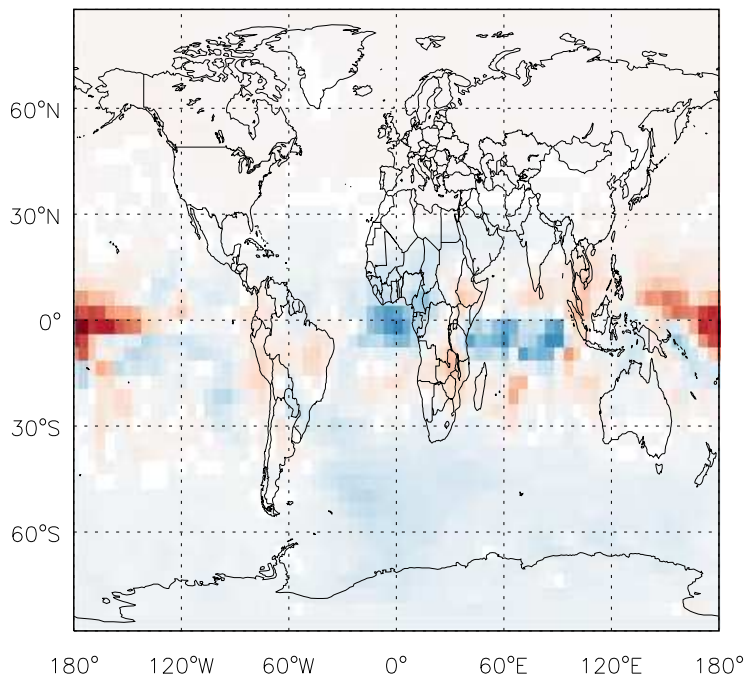


GEOS-Chem Ratio Maps at surface and 500 hPa

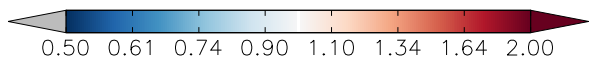
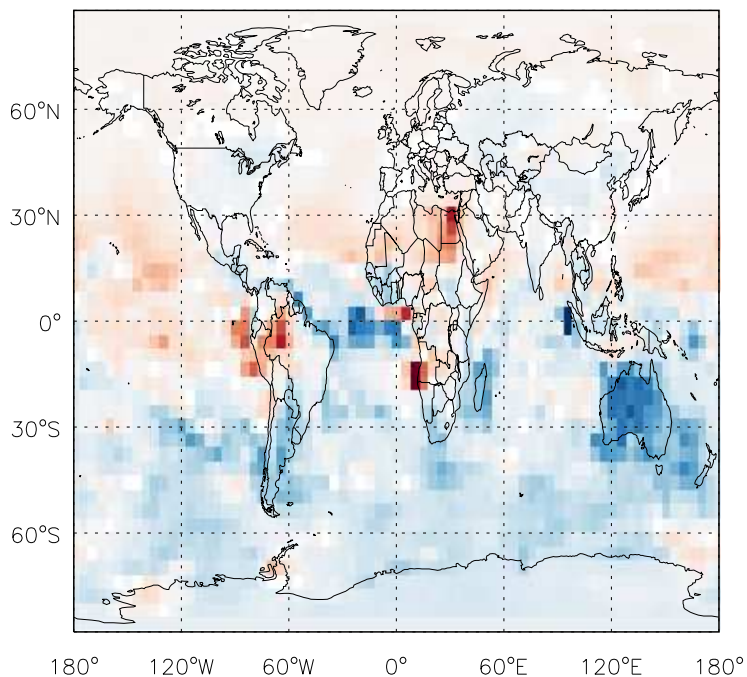
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PAN / Ratio @ Surface for Jan



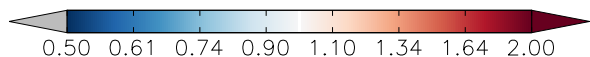
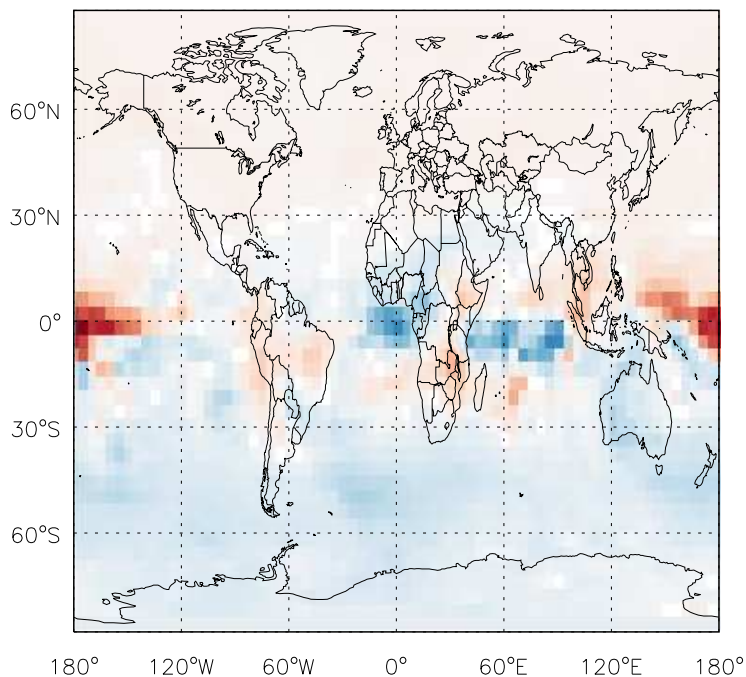
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PAN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
PAN / Ratio @ Surface for Jan

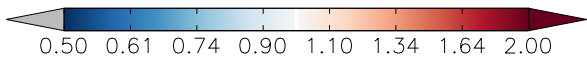
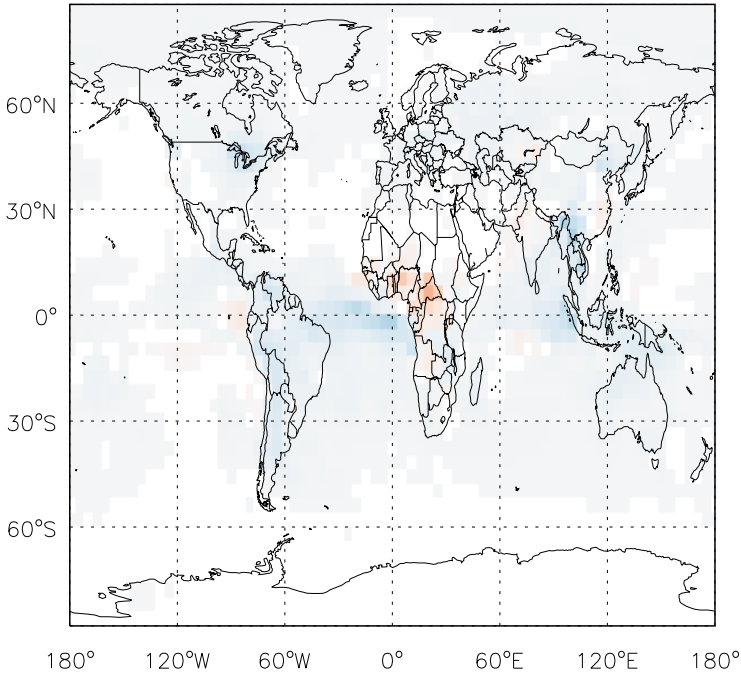


v11-01f-merra2-Run0 / v11-01d-Run1  
PAN/ Ratio @ 500 hPa for Jan

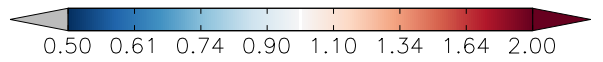
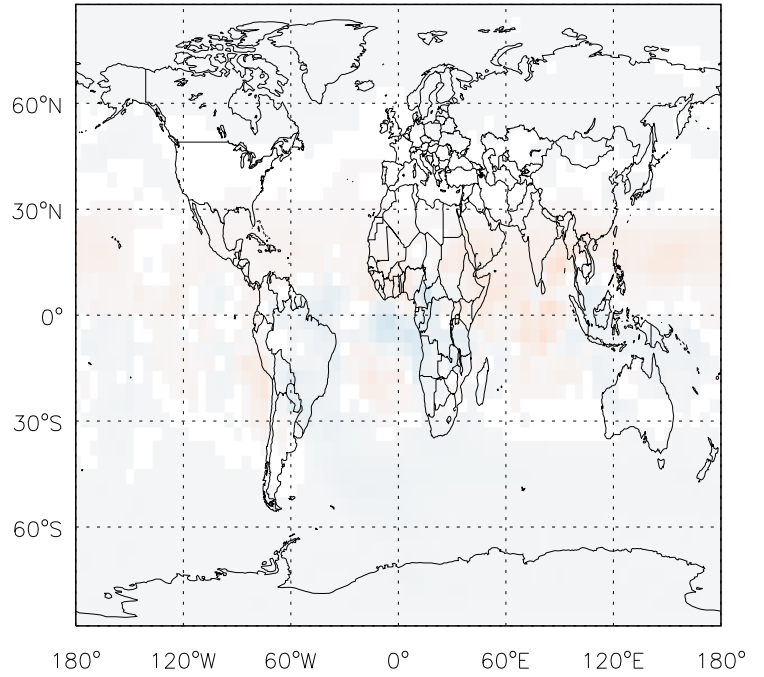


# GEOS-Chem Ratio Maps at surface and 500 hPa

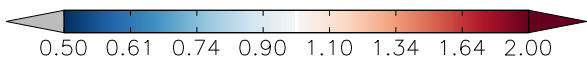
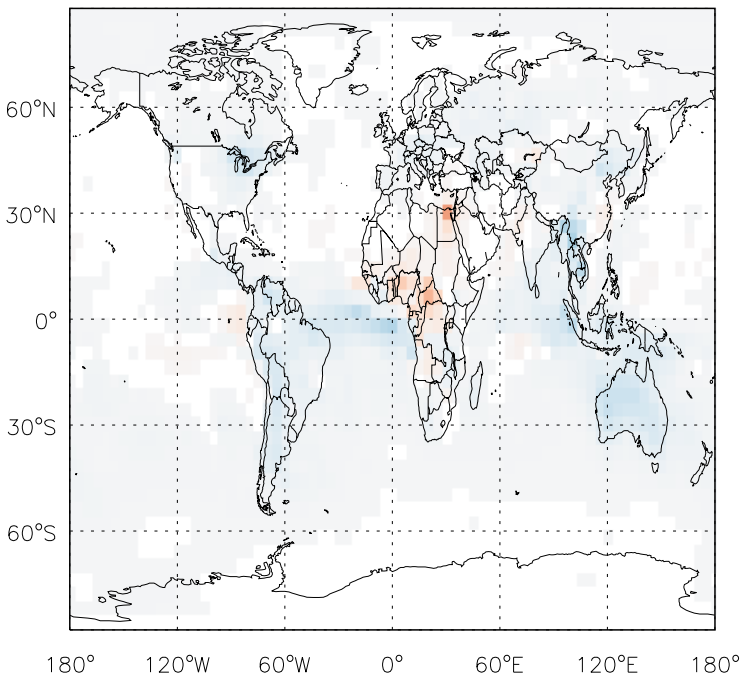
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CO / Ratio @ Surface for Jan



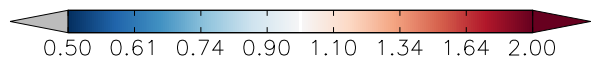
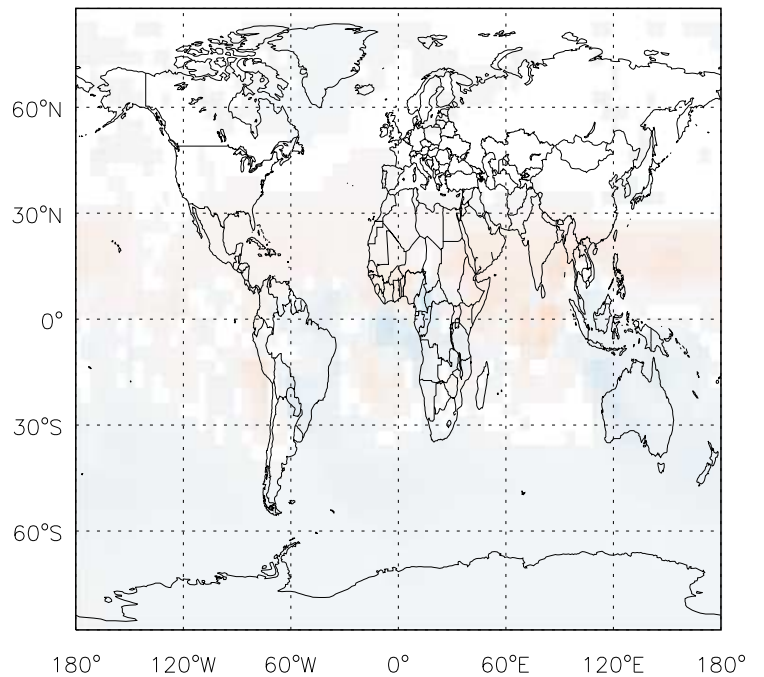
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CO / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CO / Ratio @ Surface for Jan

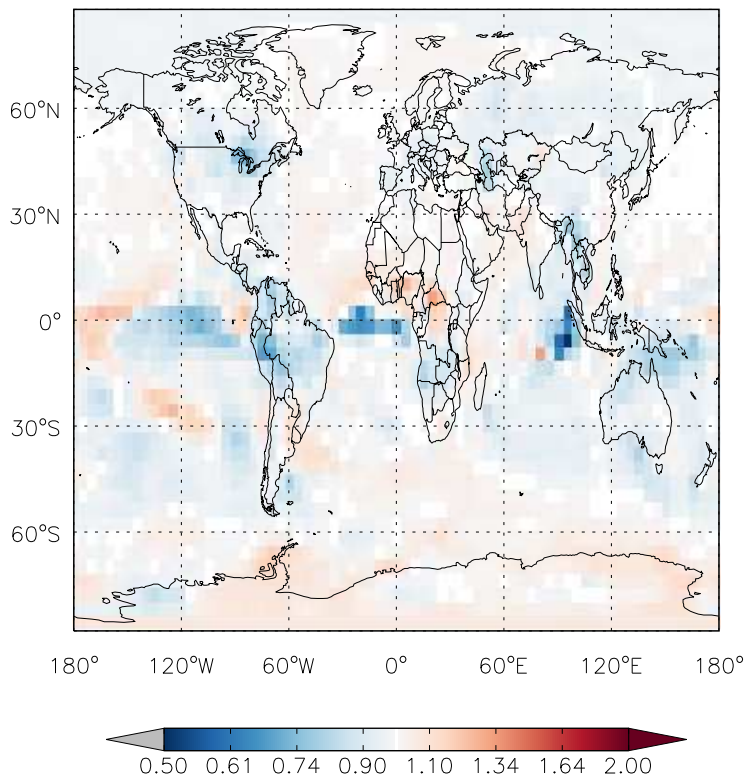


v11-01f-merra2-Run0 / v11-01d-Run1  
CO / Ratio @ 500 hPa for Jan

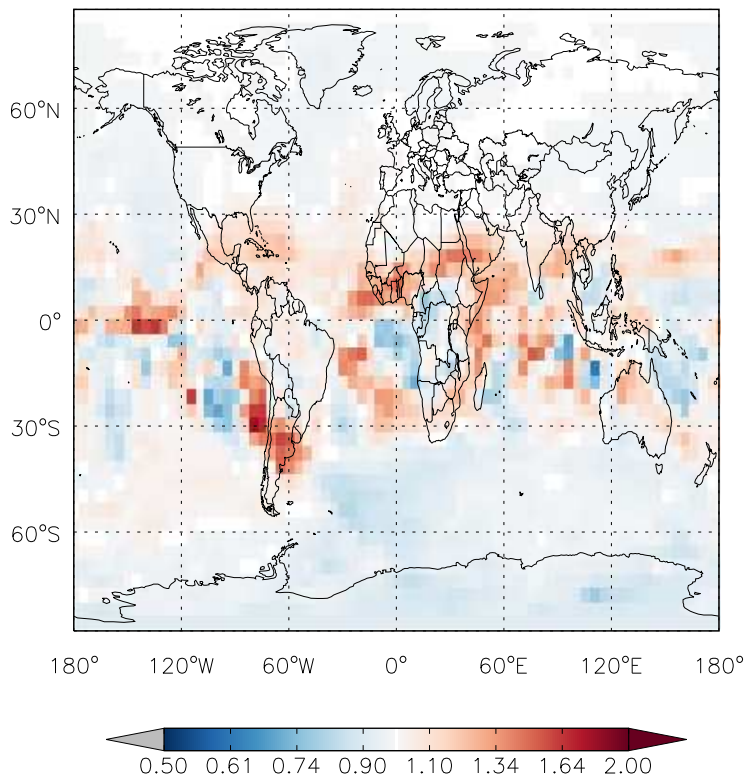


# GEOS-Chem Ratio Maps at surface and 500 hPa

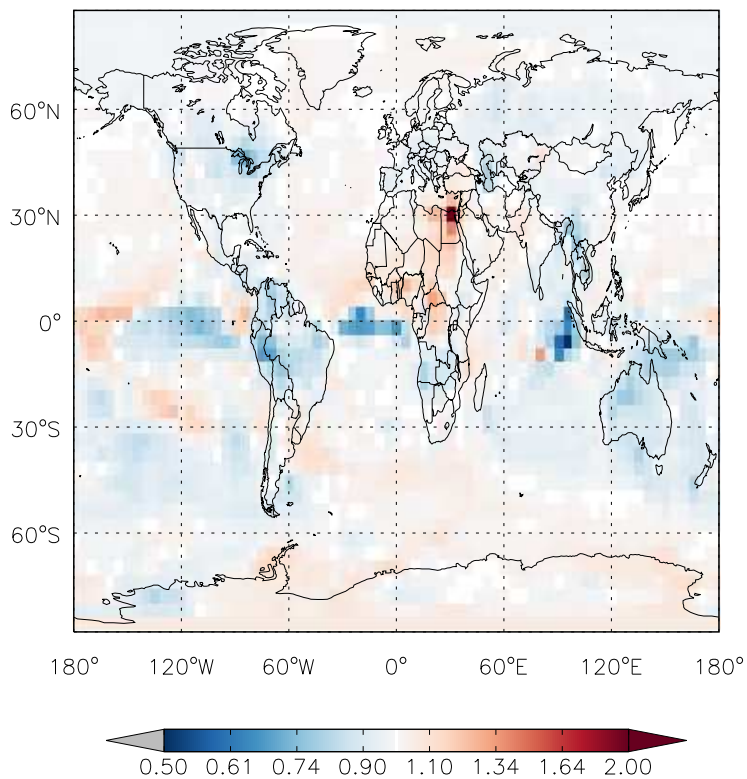
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ALK4 / Ratio @ Surface for Jan



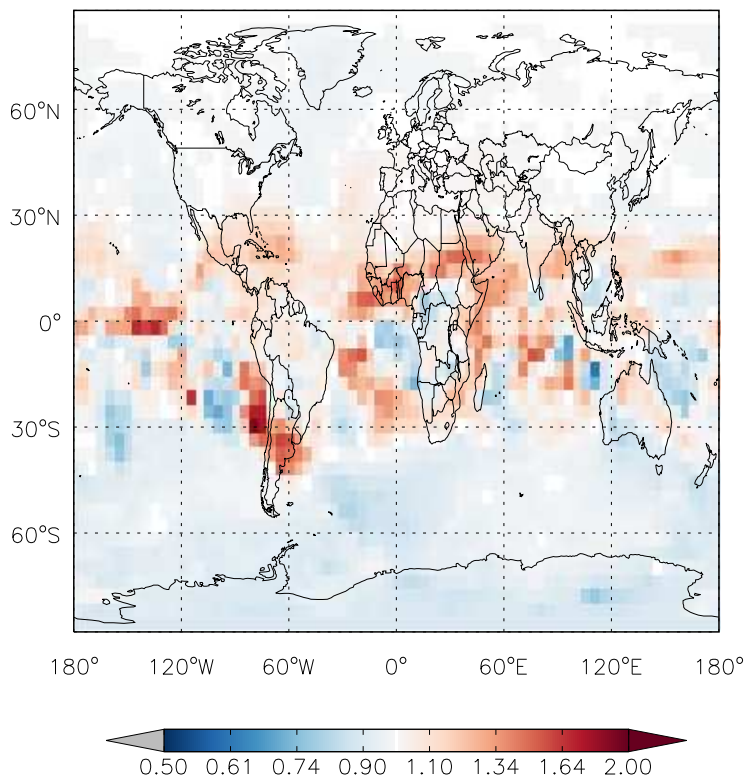
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ALK4/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ALK4 / Ratio @ Surface for Jan

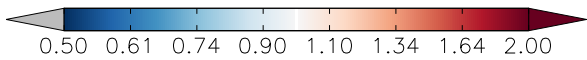
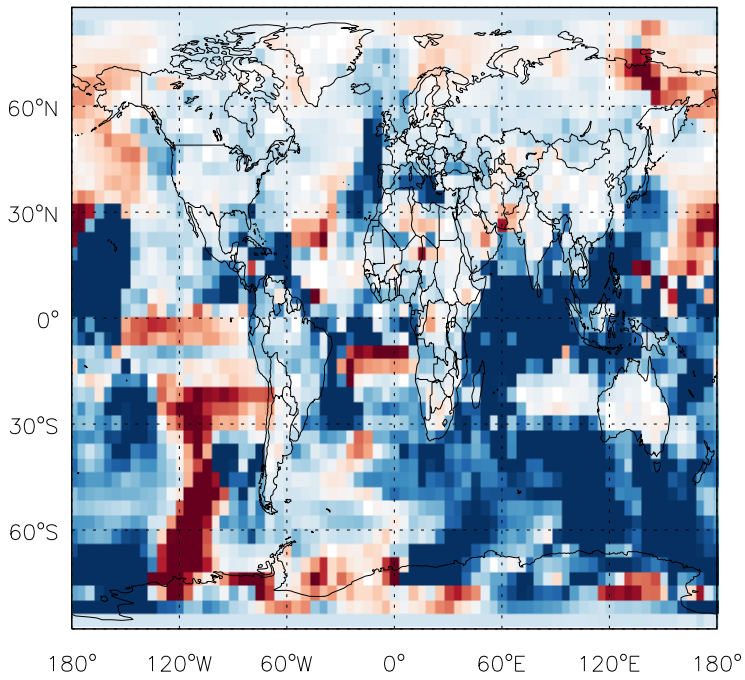


v11-01f-merra2-Run0 / v11-01d-Run1  
ALK4/ Ratio @ 500 hPa for Jan

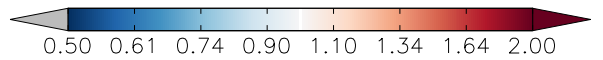
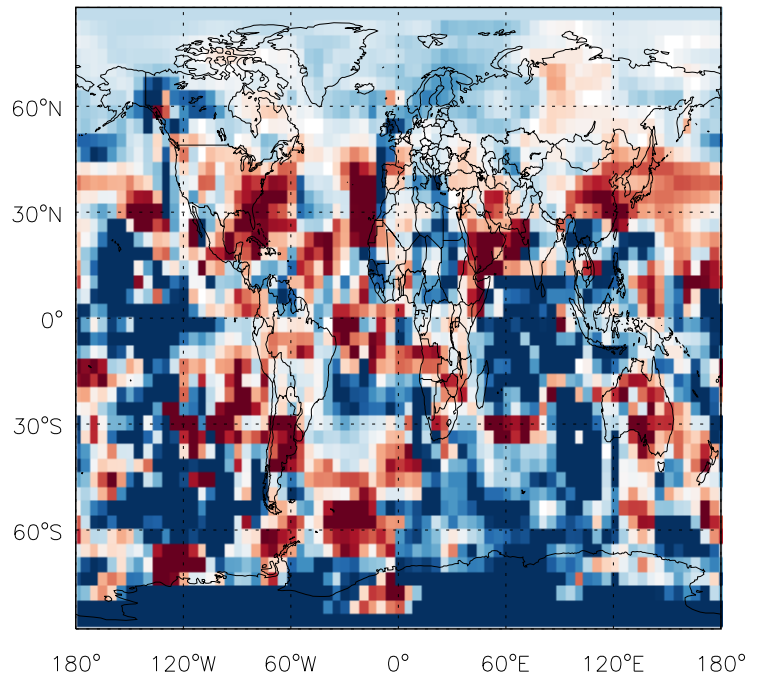


GEOS-Chem Ratio Maps at surface and 500 hPa

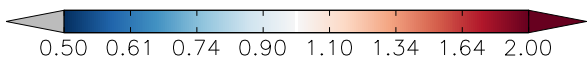
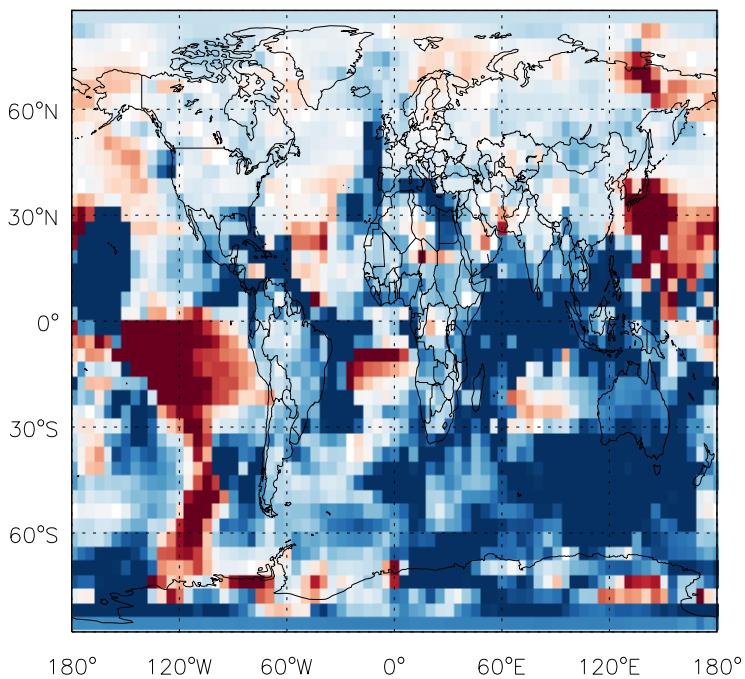
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ISOP / Ratio @ Surface for Jan



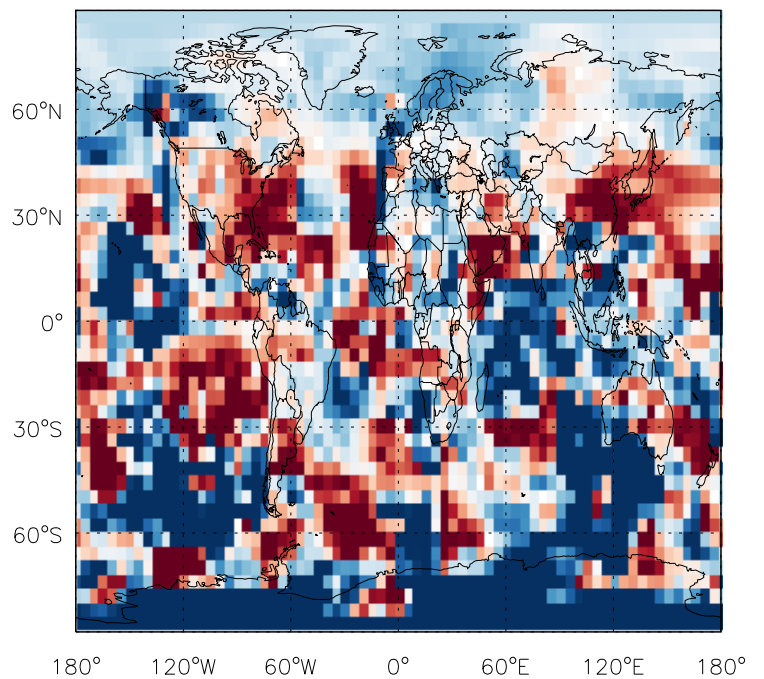
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ISOP / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ISOP / Ratio @ Surface for Jan

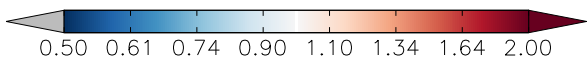
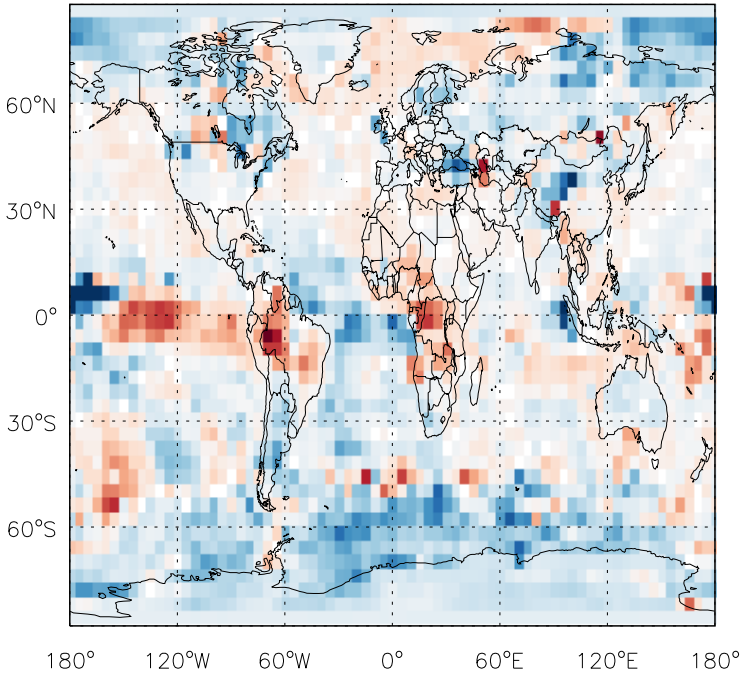


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ISOP / Ratio @ 500 hPa for Jan

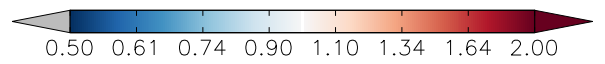
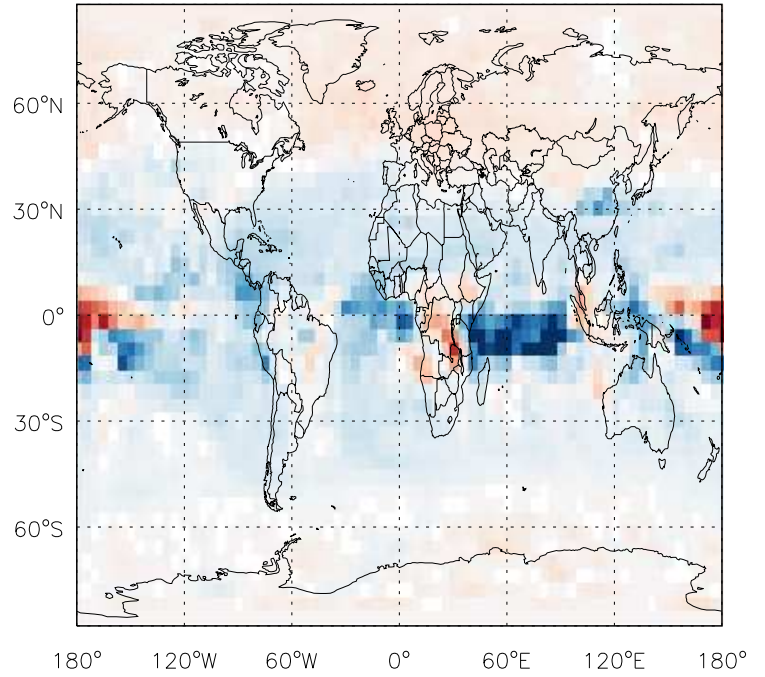


GEOS-Chem Ratio Maps at surface and 500 hPa

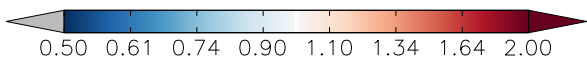
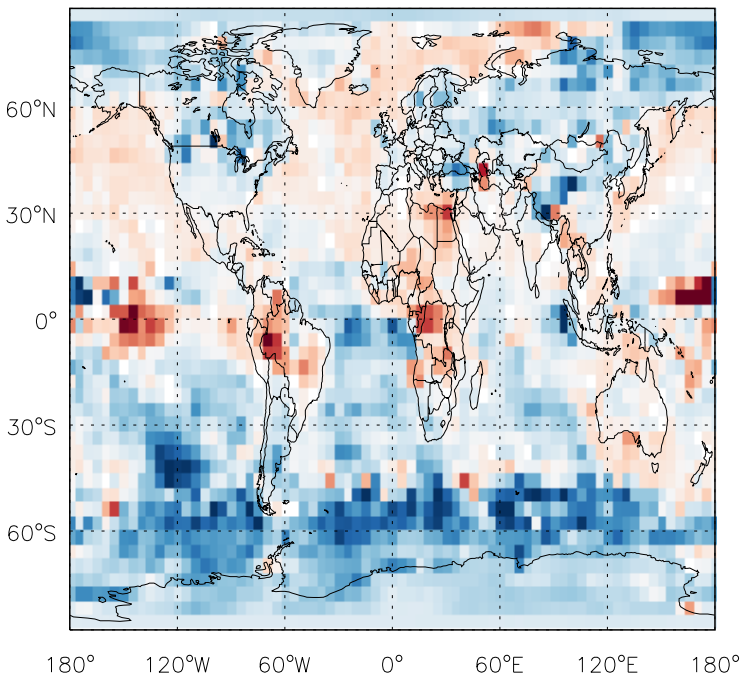
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HNO<sub>3</sub> / Ratio @ Surface for Jan



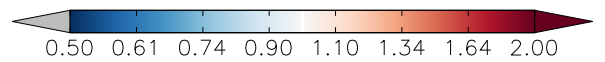
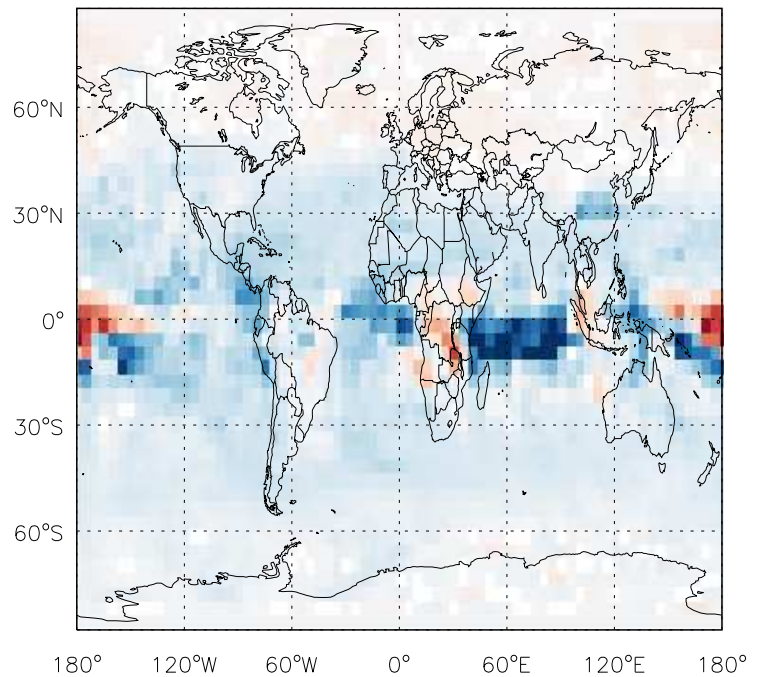
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HNO<sub>3</sub>/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HNO<sub>3</sub> / Ratio @ Surface for Jan

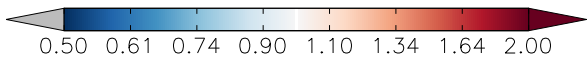
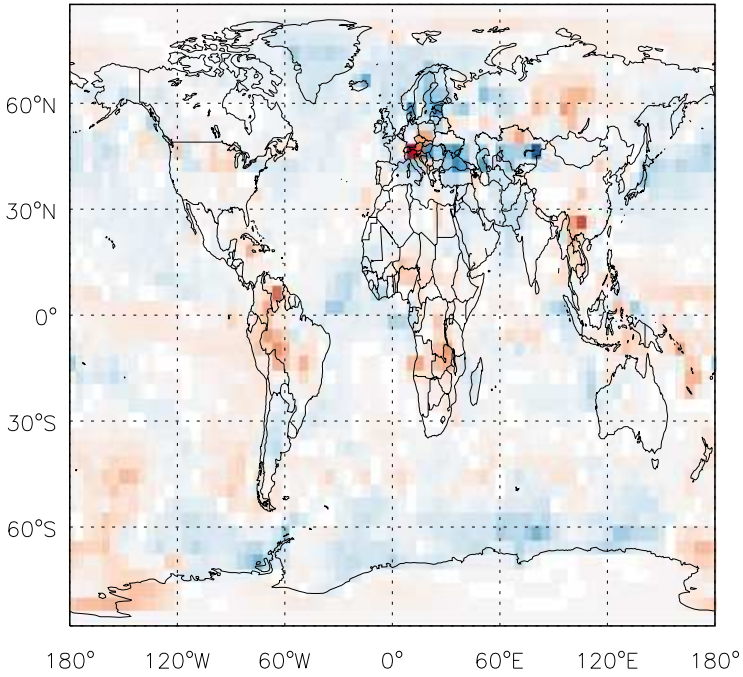


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HNO<sub>3</sub>/ Ratio @ 500 hPa for Jan

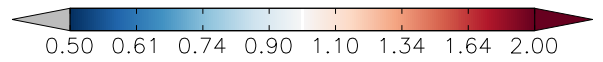
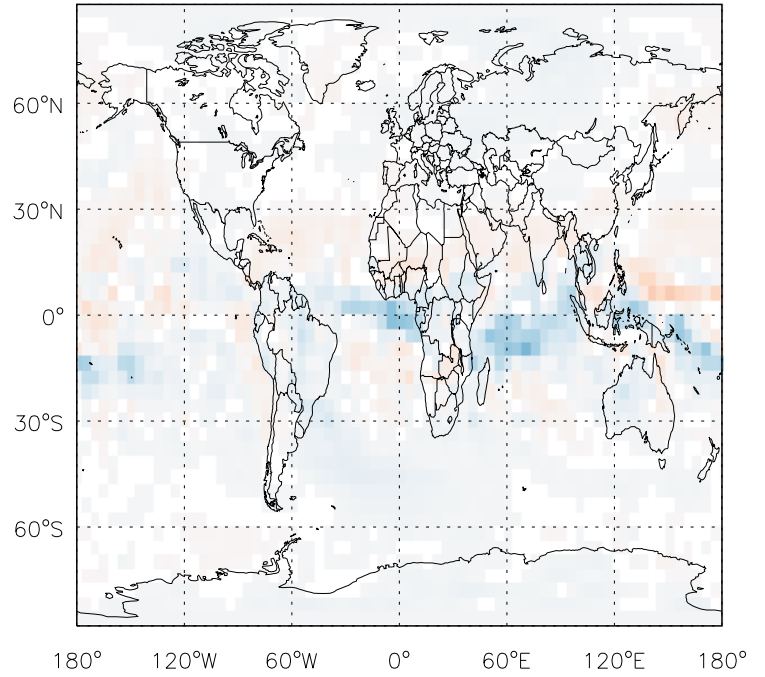


GEOS-Chem Ratio Maps at surface and 500 hPa

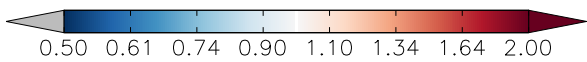
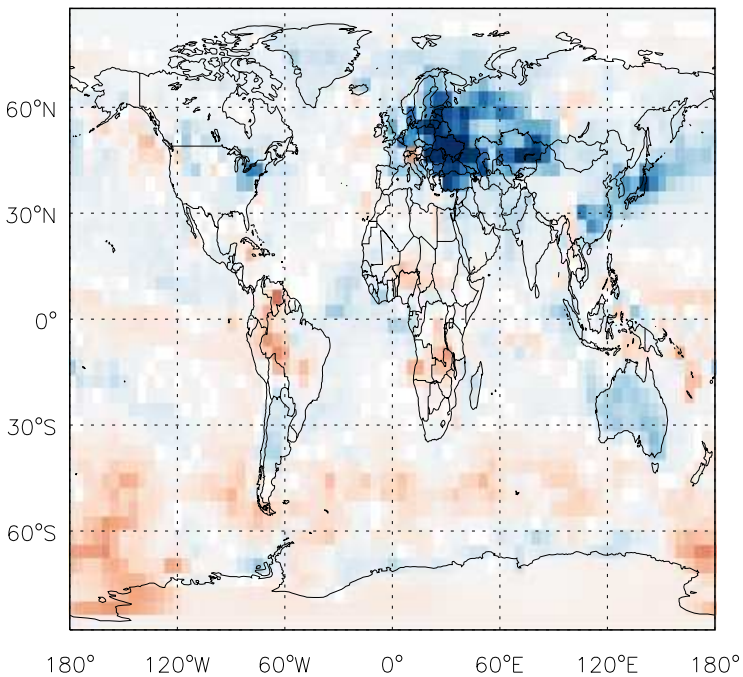
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2O2 / Ratio @ Surface for Jan



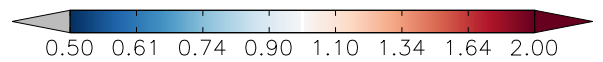
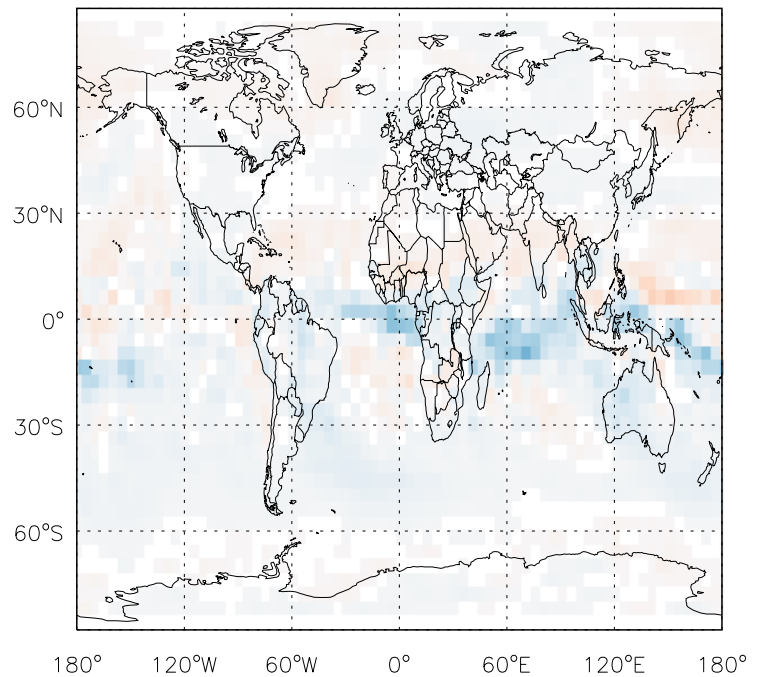
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2O2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
H2O2 / Ratio @ Surface for Jan



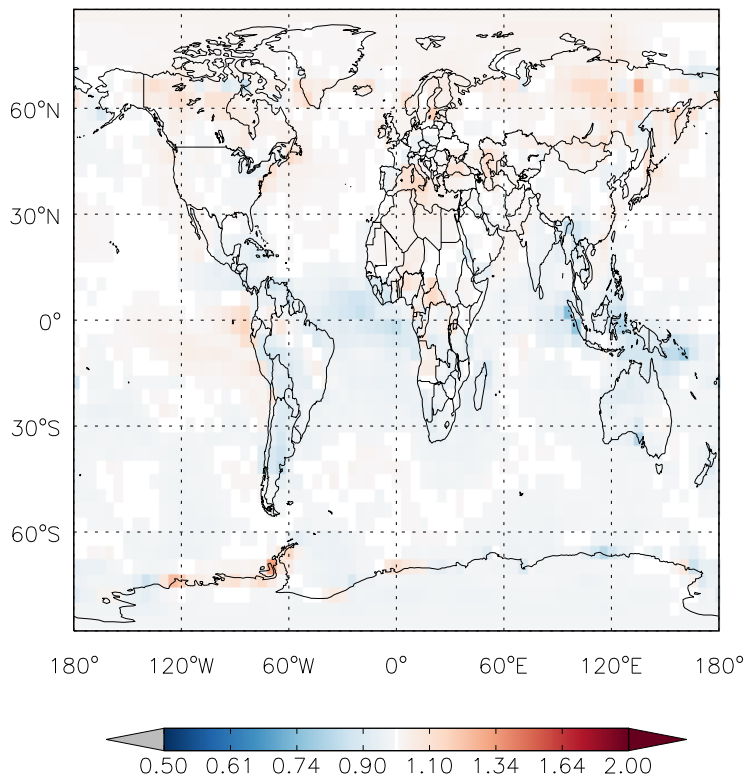
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H2O2 / Ratio @ 500 hPa for Jan



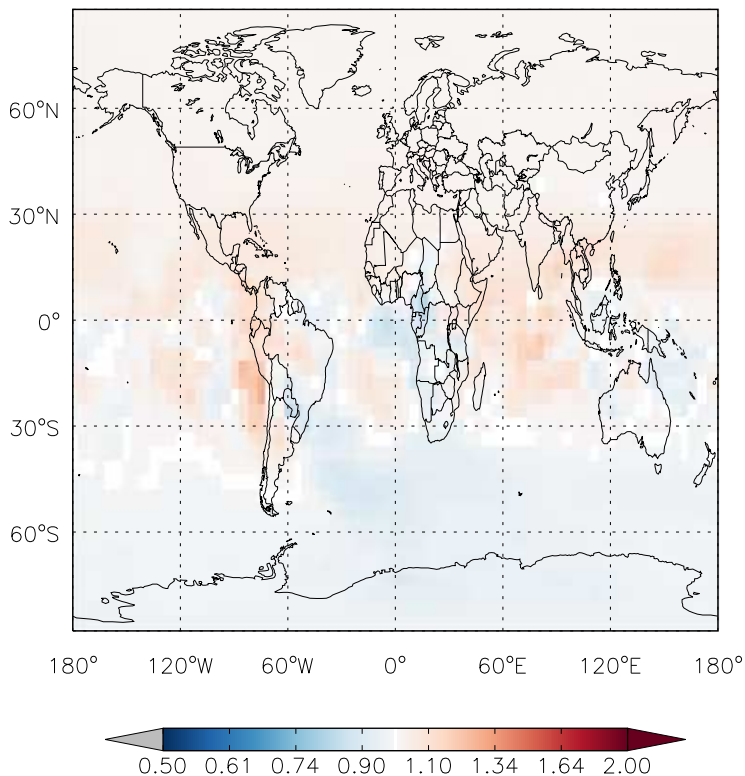


# GEOS-Chem Ratio Maps at surface and 500 hPa

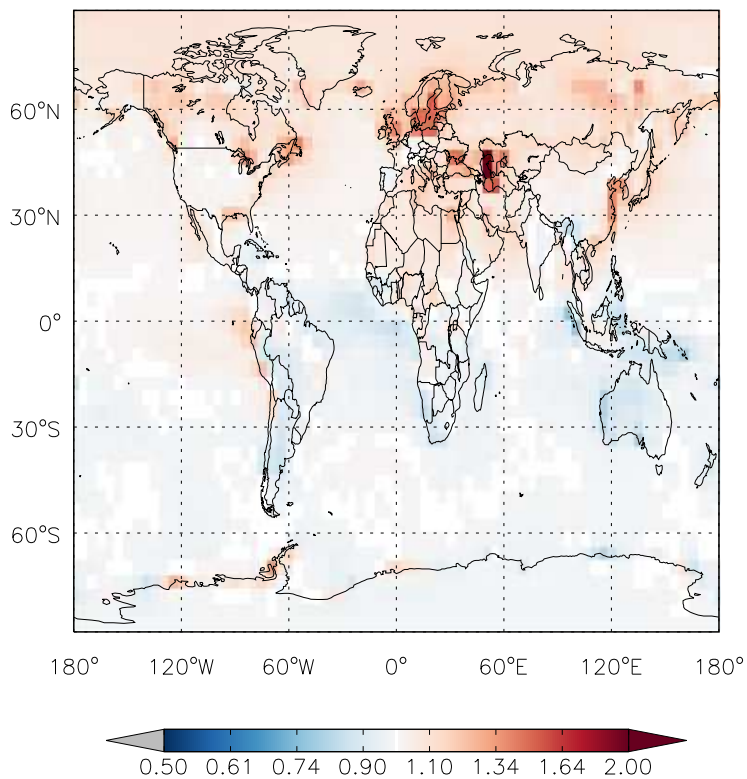
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ACET / Ratio @ Surface for Jan



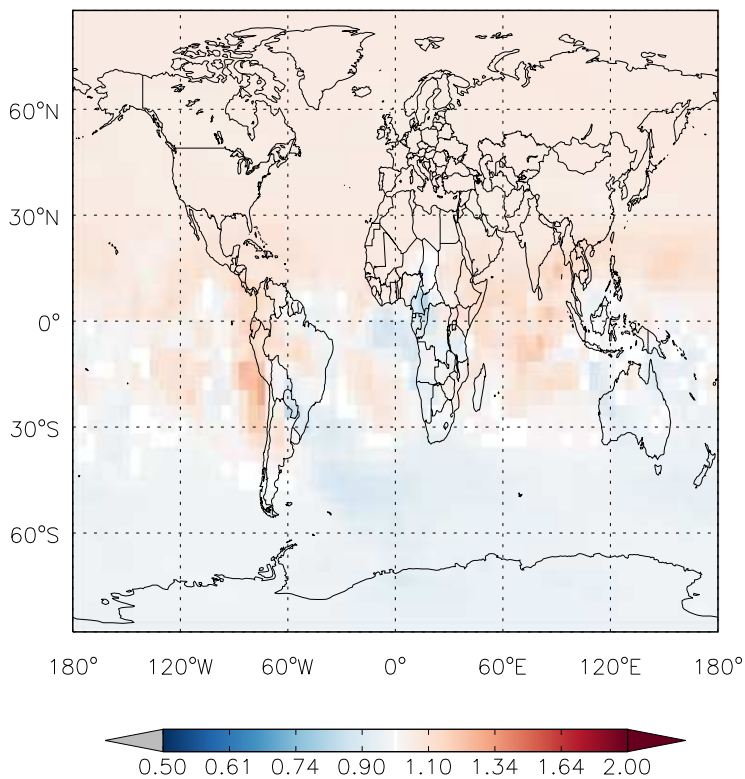
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ACET / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ACET / Ratio @ Surface for Jan

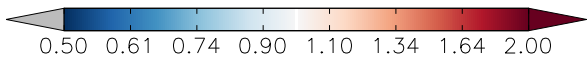
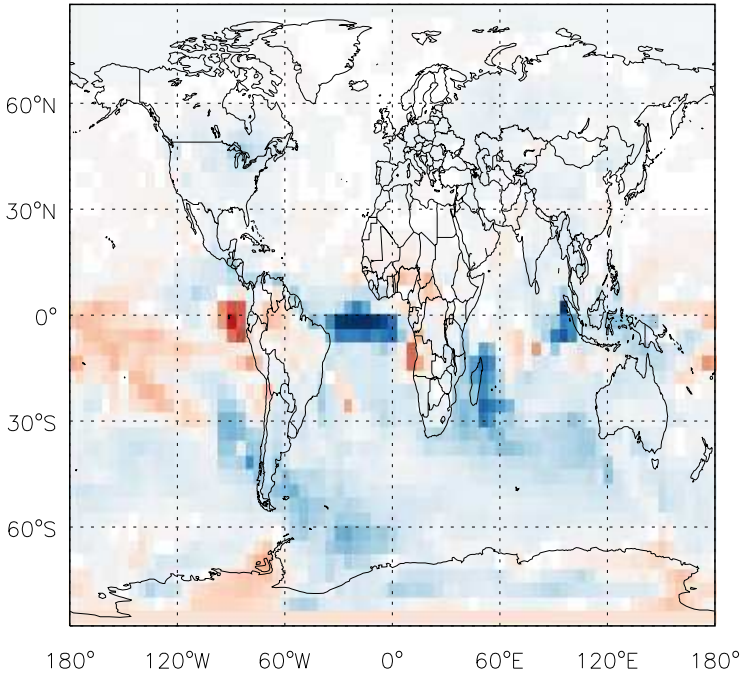


v11-01f-merra2-Run0 / v11-01d-Run1  
ACET / Ratio @ 500 hPa for Jan

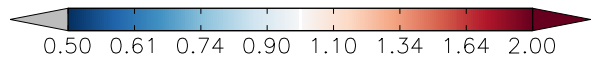
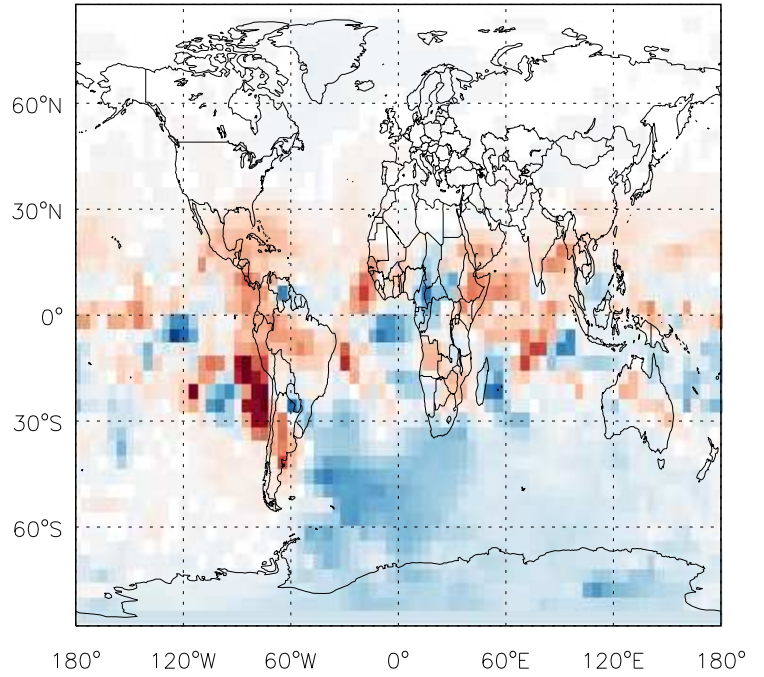


GEOS-Chem Ratio Maps at surface and 500 hPa

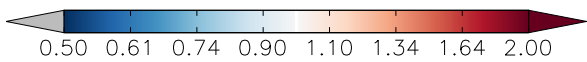
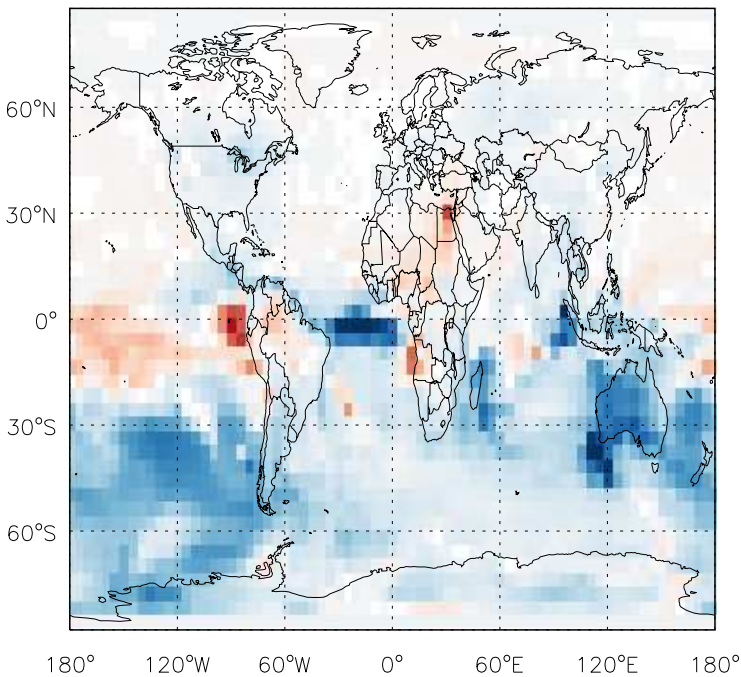
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MEK / Ratio @ Surface for Jan



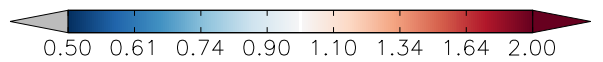
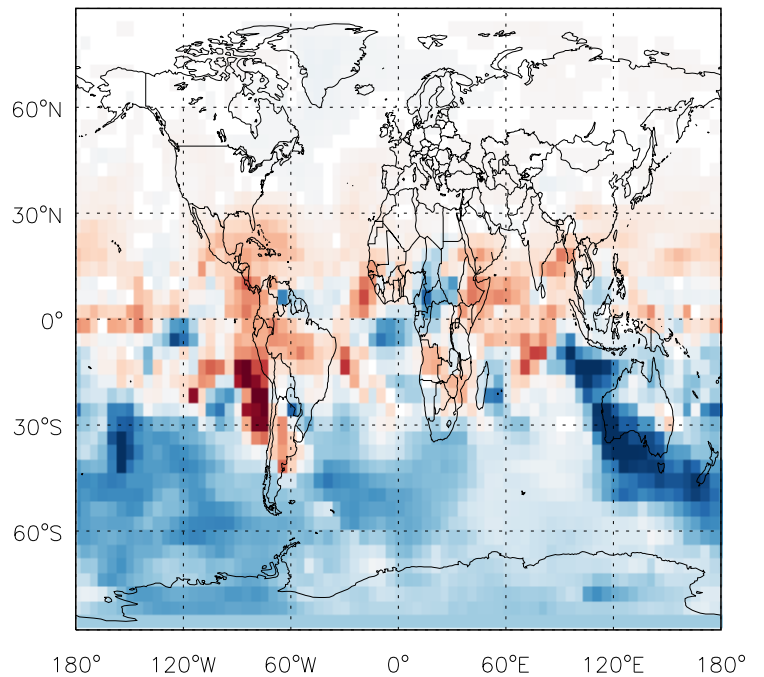
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MEK/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MEK / Ratio @ Surface for Jan

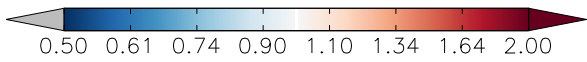
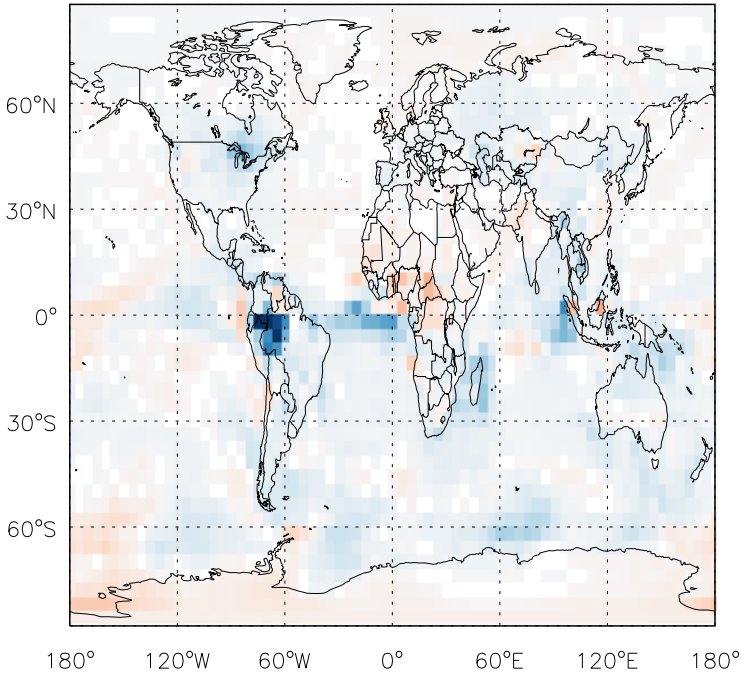


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MEK/ Ratio @ 500 hPa for Jan

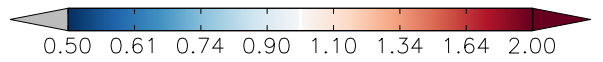
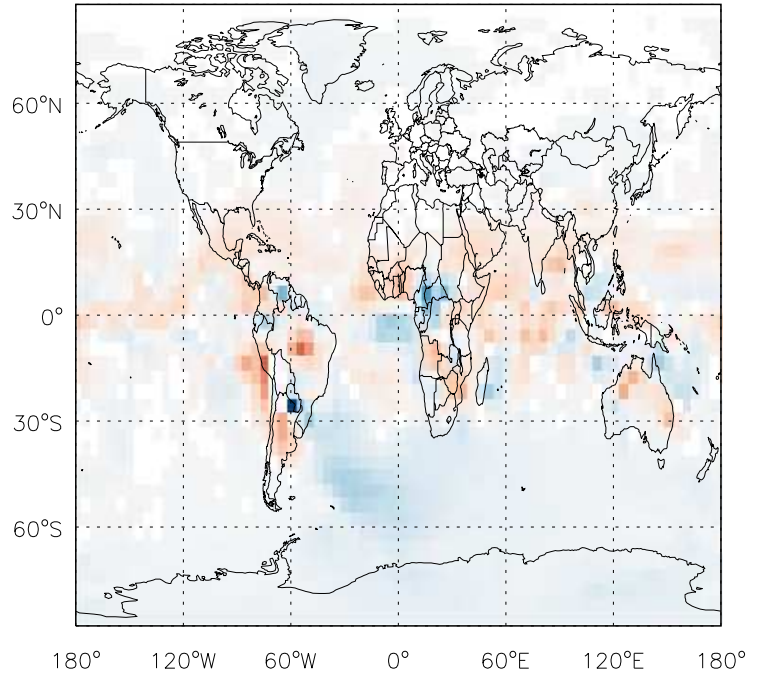


# GEOS-Chem Ratio Maps at surface and 500 hPa

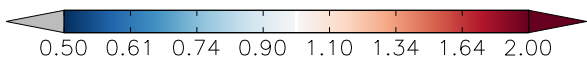
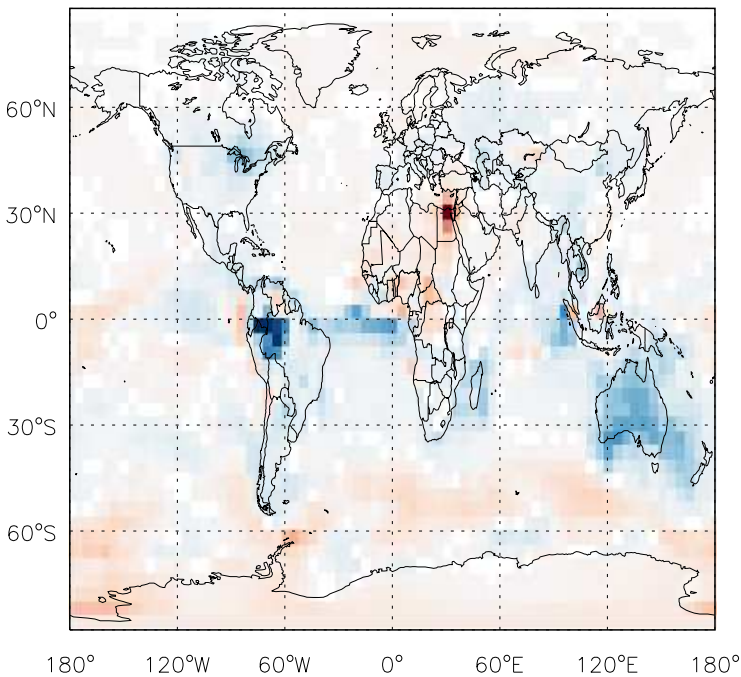
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ALD2 / Ratio @ Surface for Jan



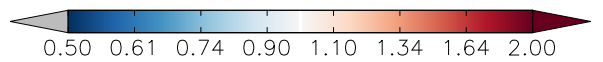
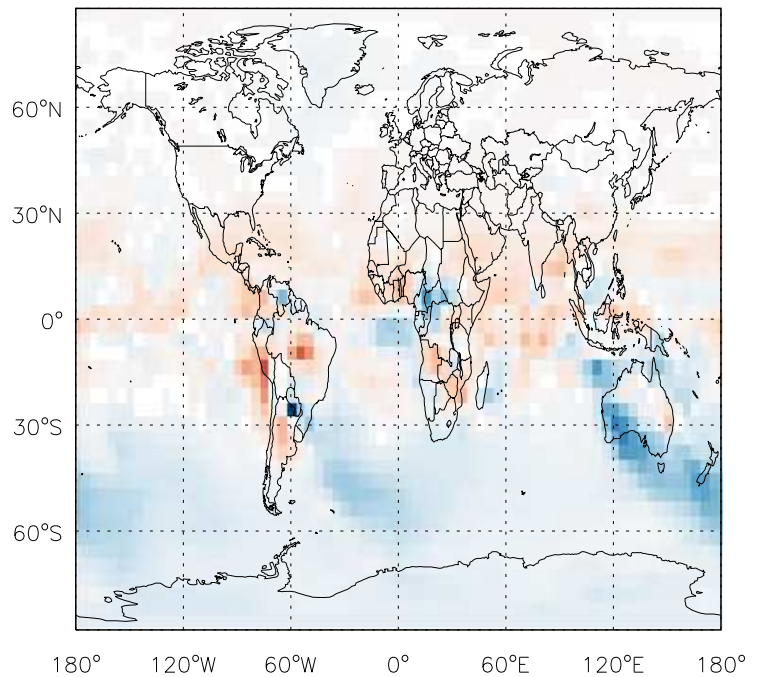
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ALD2/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ALD2 / Ratio @ Surface for Jan

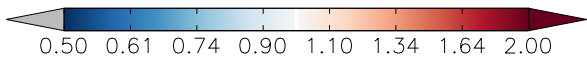
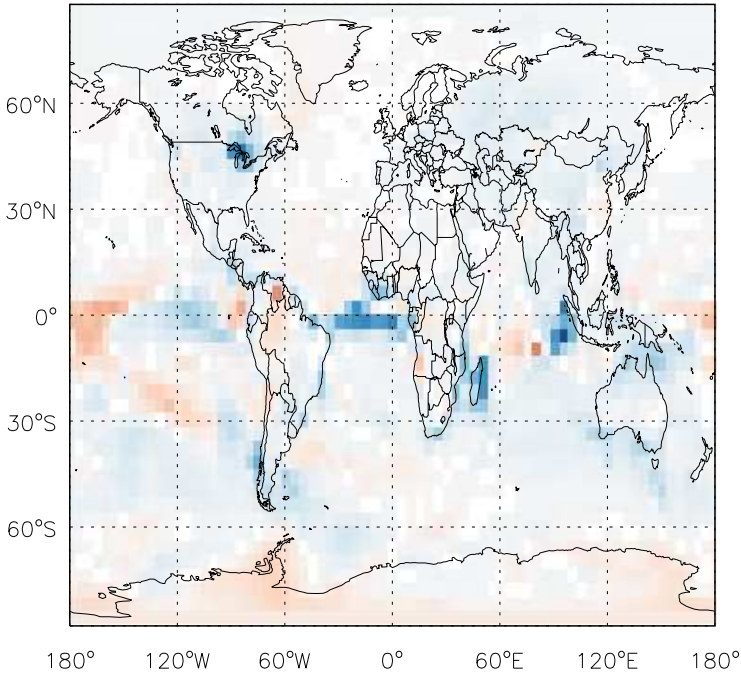


v11-01f-merra2-Run0 / v11-01d-Run1  
ALD2/ Ratio @ 500 hPa for Jan

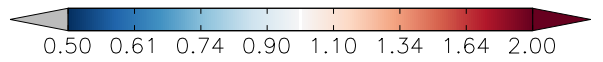
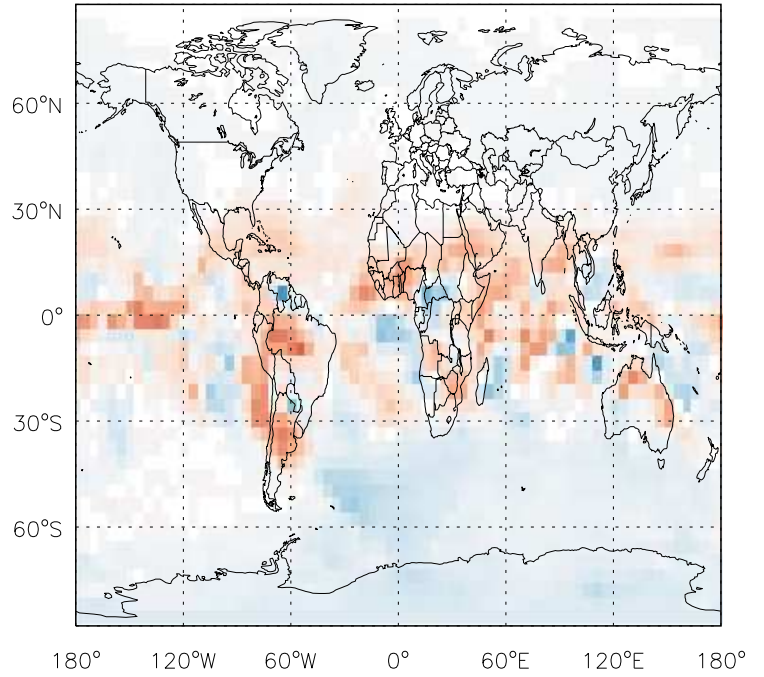


GEOS-Chem Ratio Maps at surface and 500 hPa

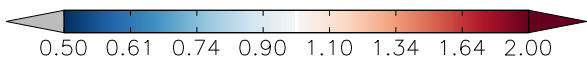
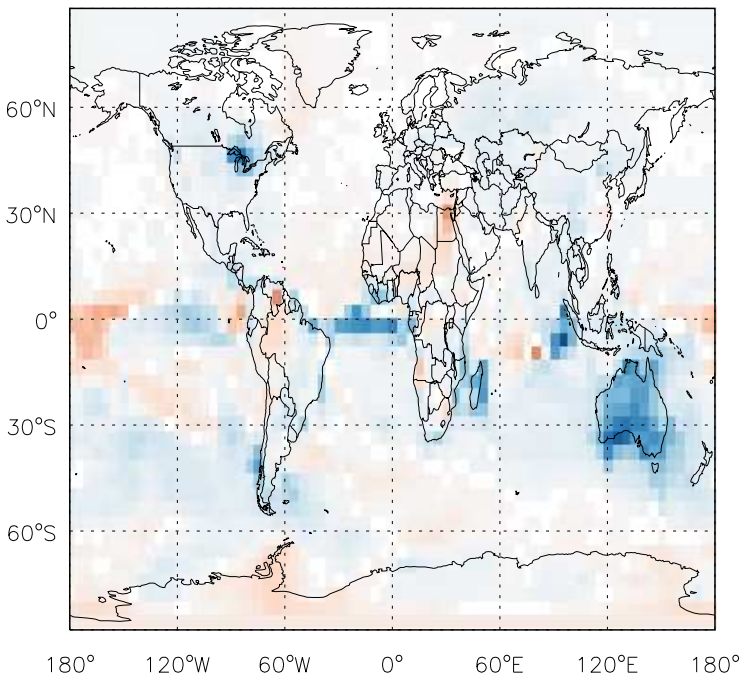
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
RCHO / Ratio @ Surface for Jan



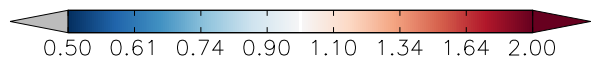
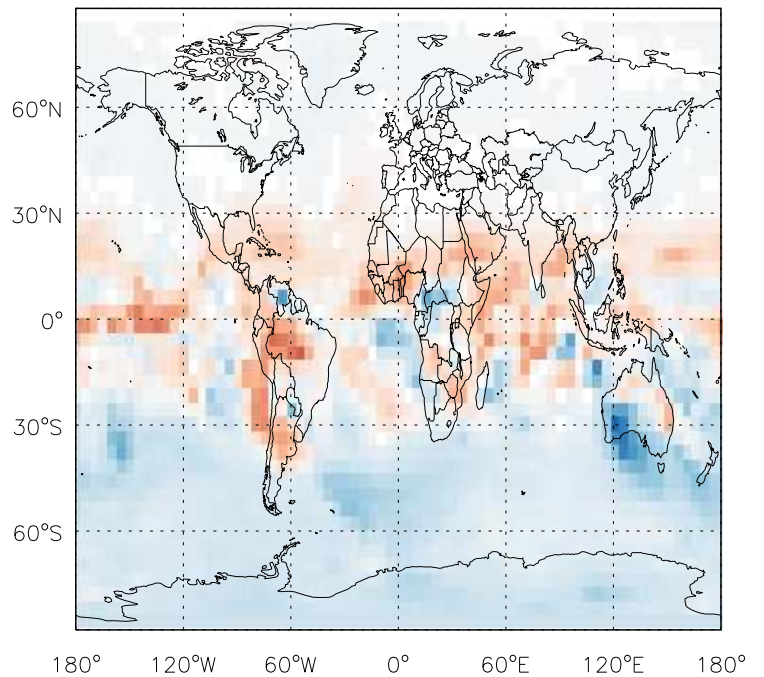
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
RCHO/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
RCHO / Ratio @ Surface for Jan

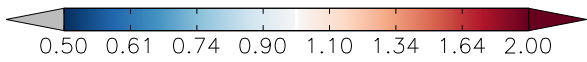
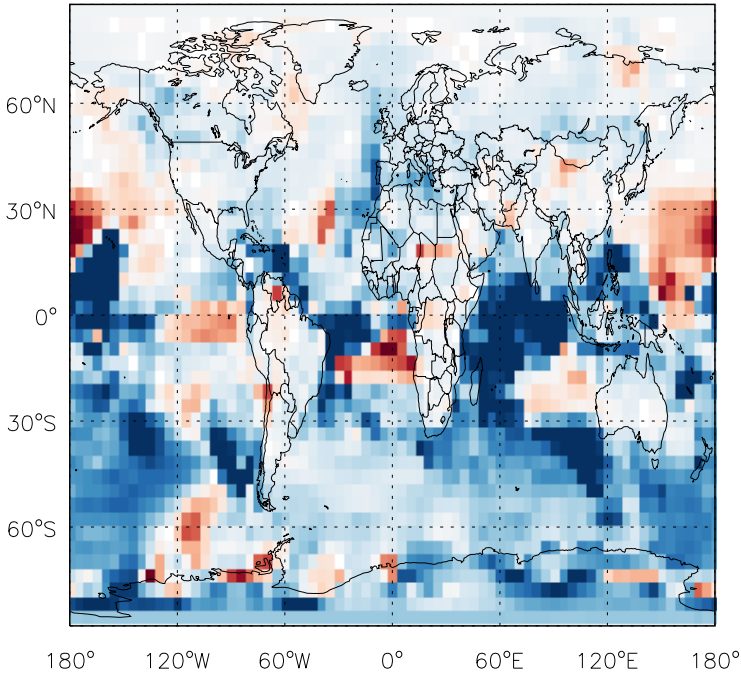


v11-01f-merra2-Run0 / v11-01d-Run1  
RCHO/ Ratio @ 500 hPa for Jan

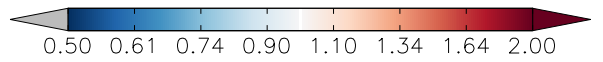
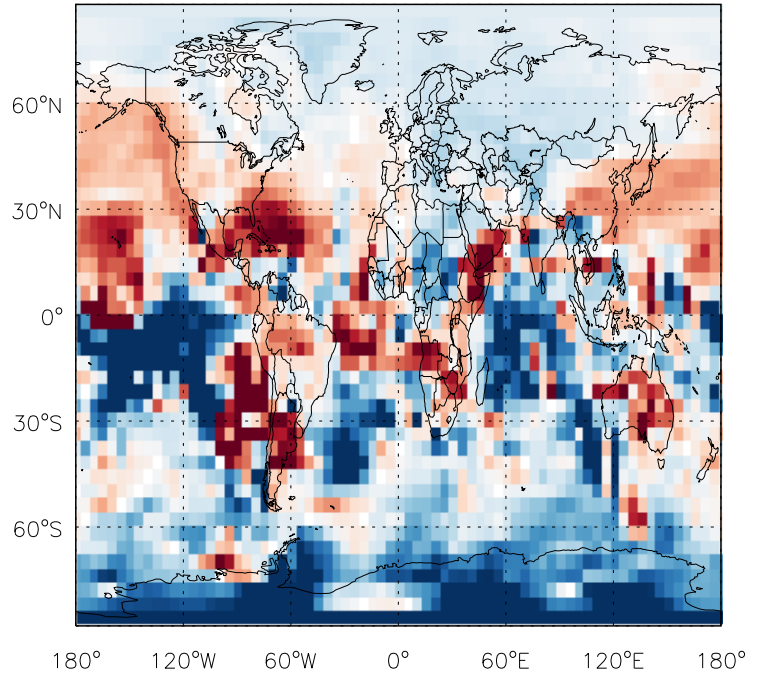


GEOS-Chem Ratio Maps at surface and 500 hPa

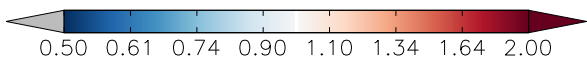
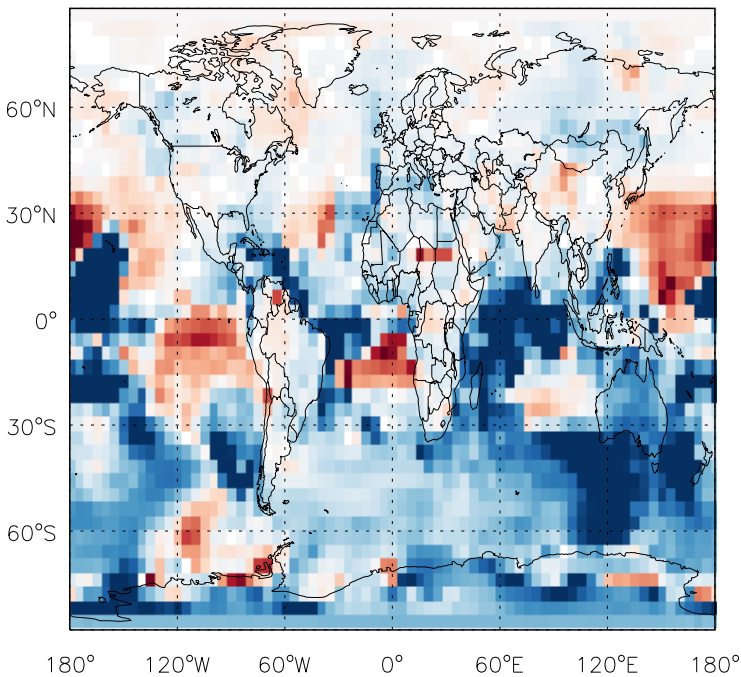
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MVK / Ratio @ Surface for Jan



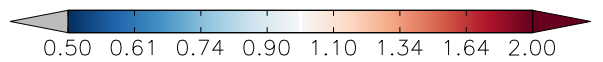
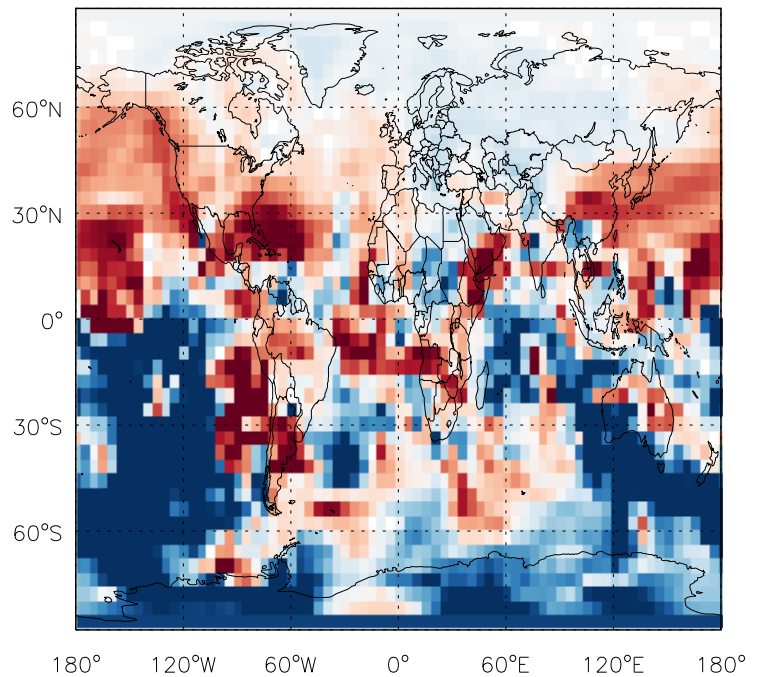
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MVK/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MVK / Ratio @ Surface for Jan

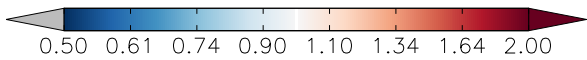
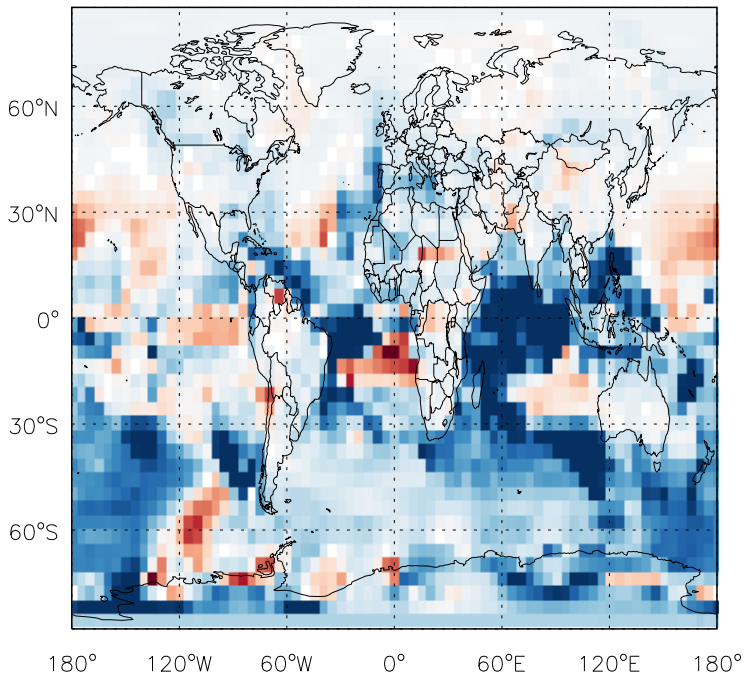


v11-01f-merra2-Run0 / v11-01d-Run1  
MVK/ Ratio @ 500 hPa for Jan

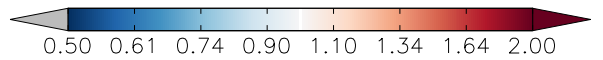
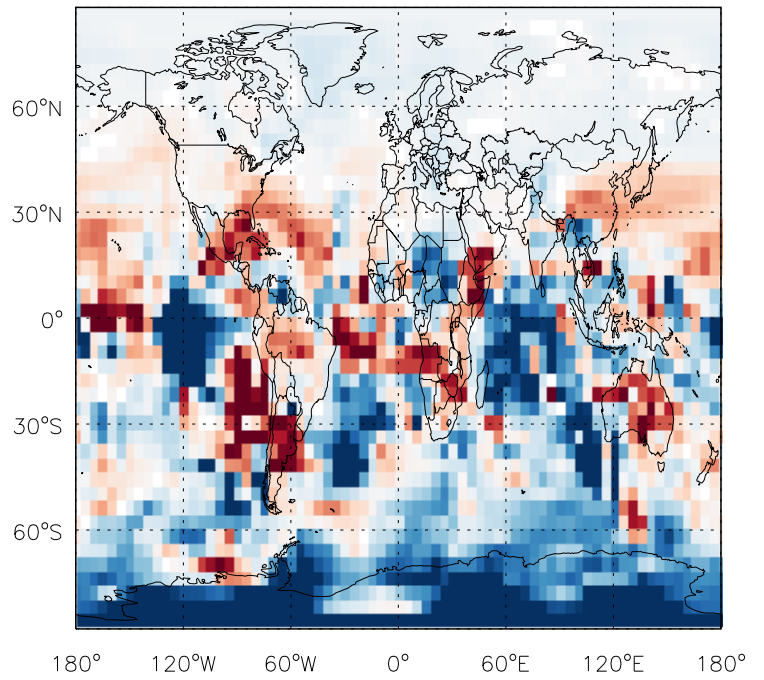


GEOS-Chem Ratio Maps at surface and 500 hPa

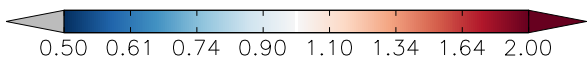
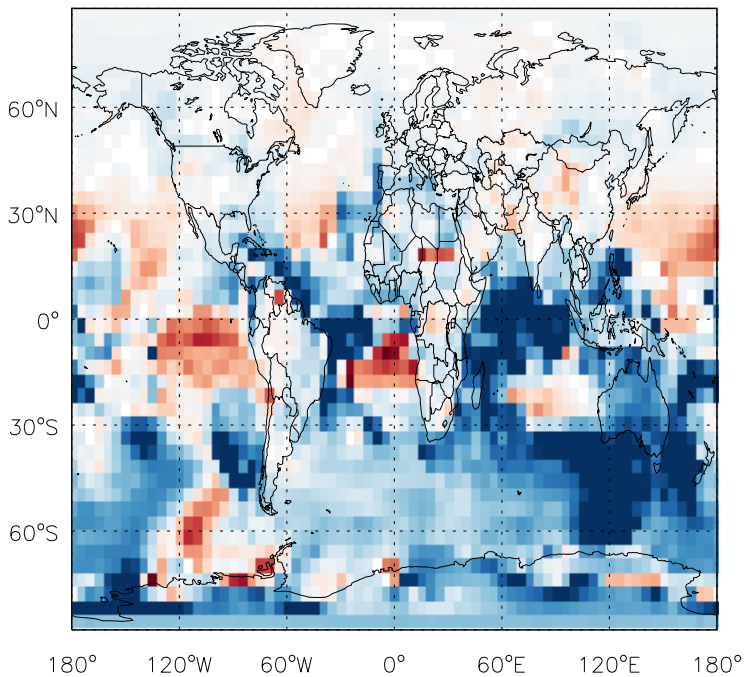
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MACR / Ratio @ Surface for Jan



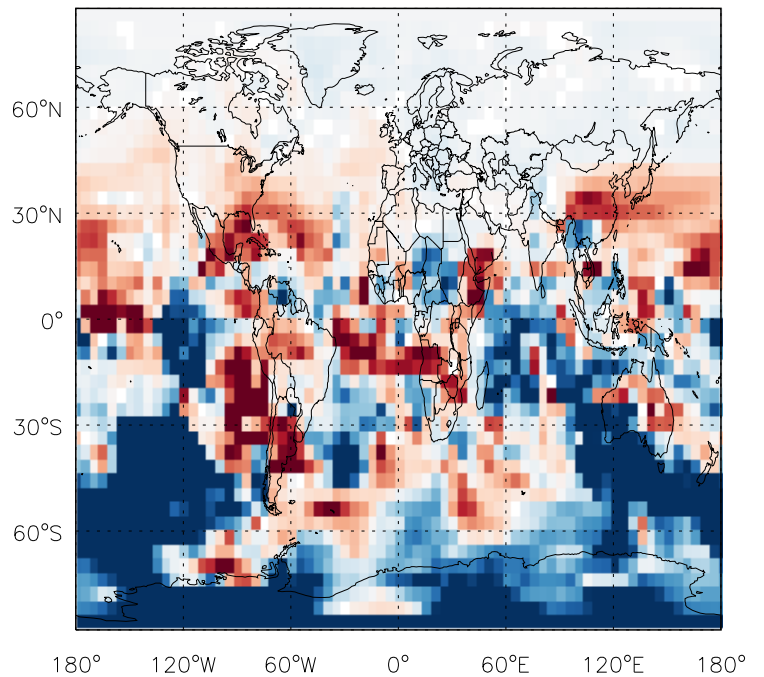
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MACR/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MACR / Ratio @ Surface for Jan

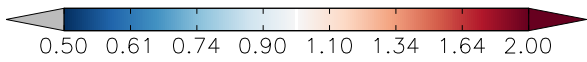
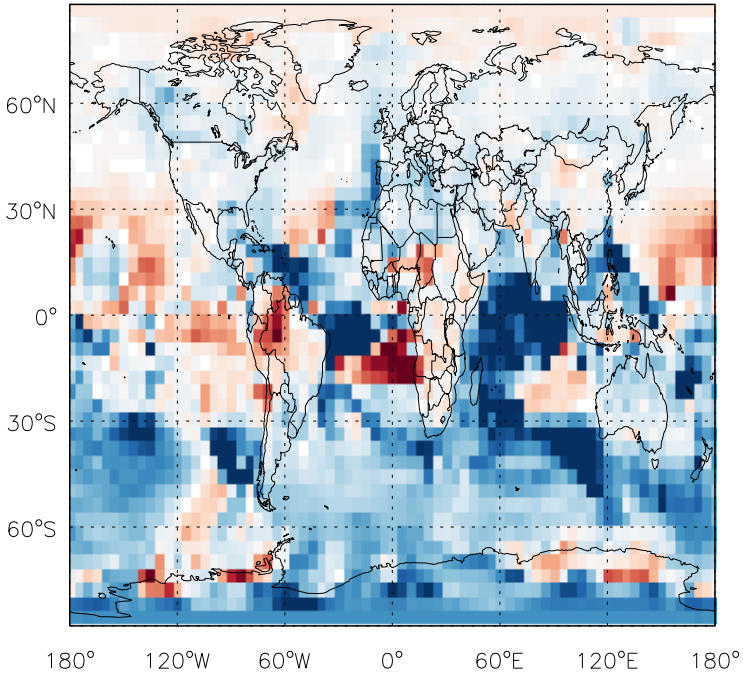


v11-01f-merra2-Run0 / v11-01d-Run1  
MACR/ Ratio @ 500 hPa for Jan

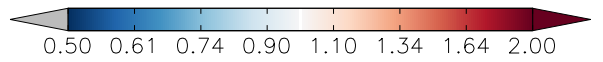
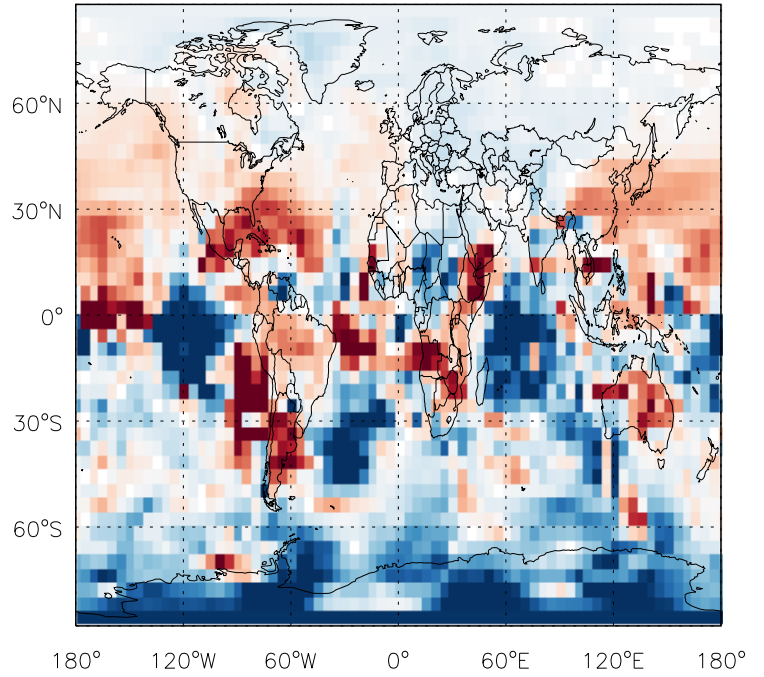


GEOS-Chem Ratio Maps at surface and 500 hPa

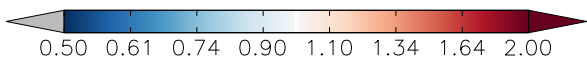
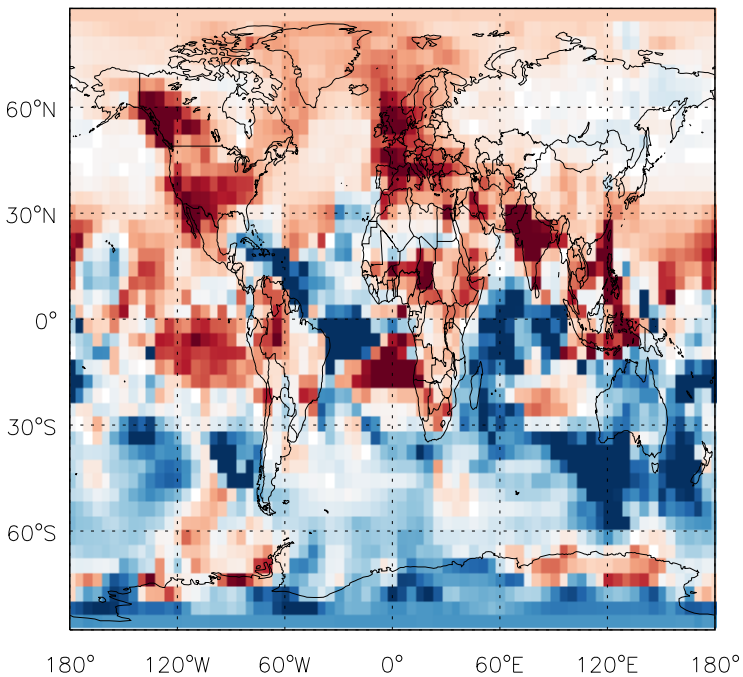
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PMN / Ratio @ Surface for Jan



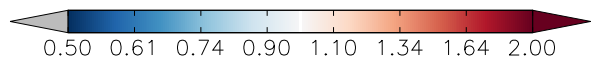
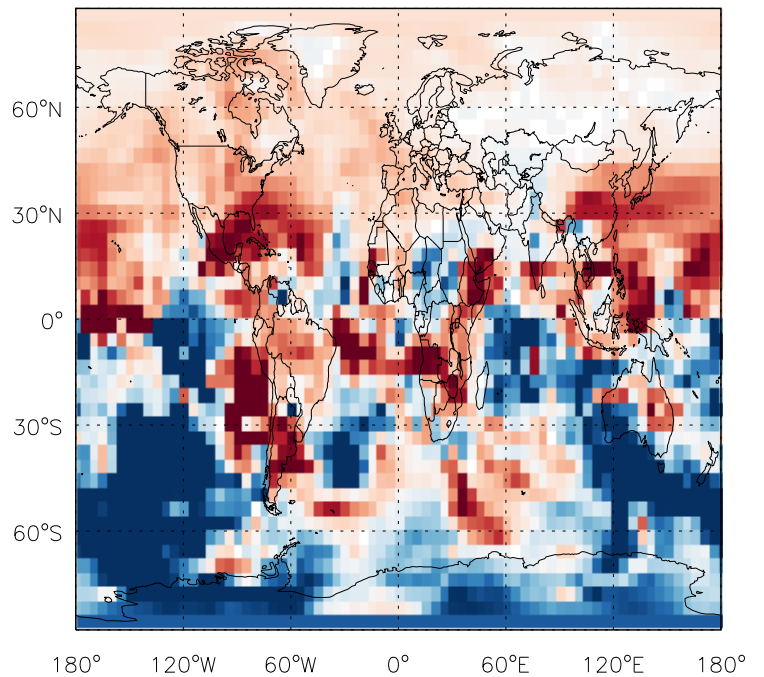
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PMN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
PMN / Ratio @ Surface for Jan

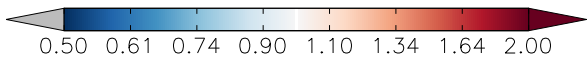
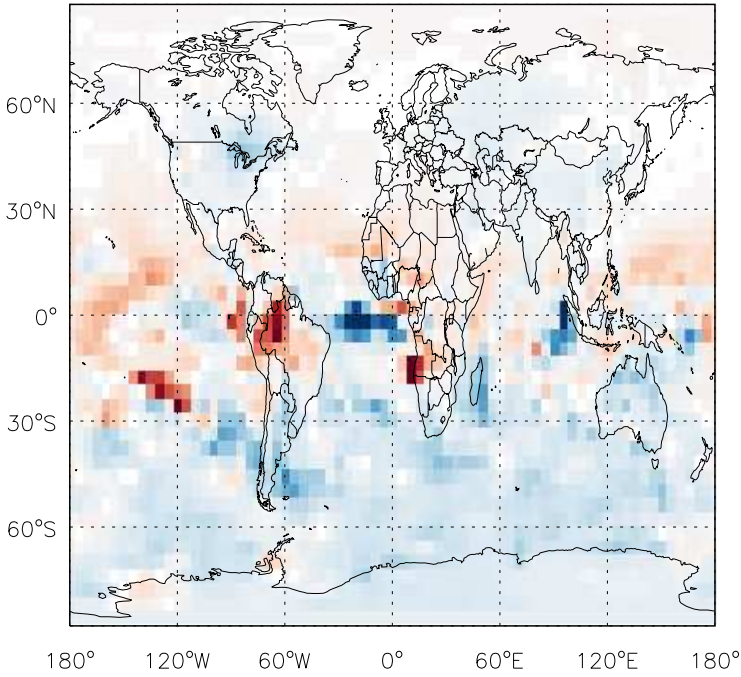


v11-01f-merra2-Run0 / v11-01d-Run1  
PMN/ Ratio @ 500 hPa for Jan

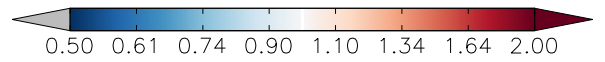
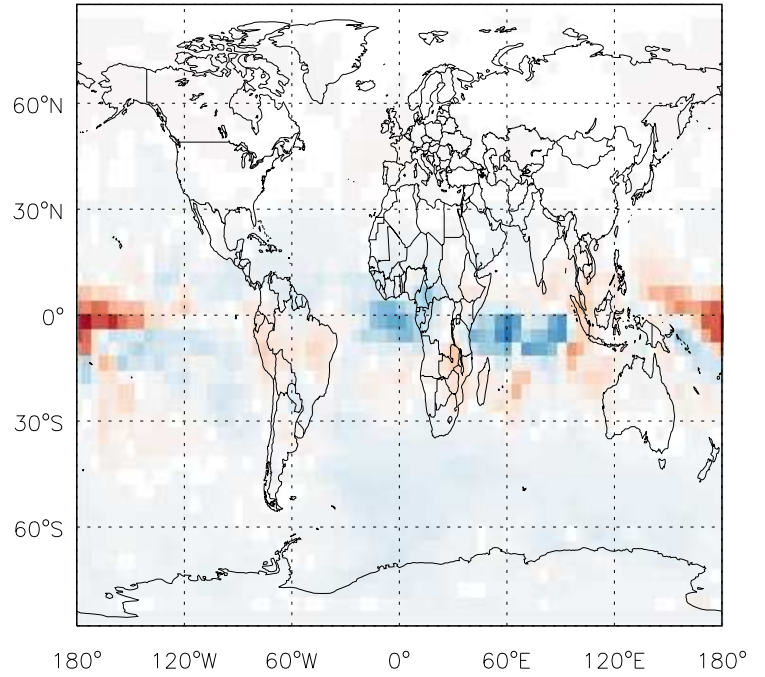


GEOS-Chem Ratio Maps at surface and 500 hPa

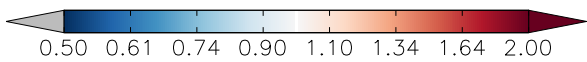
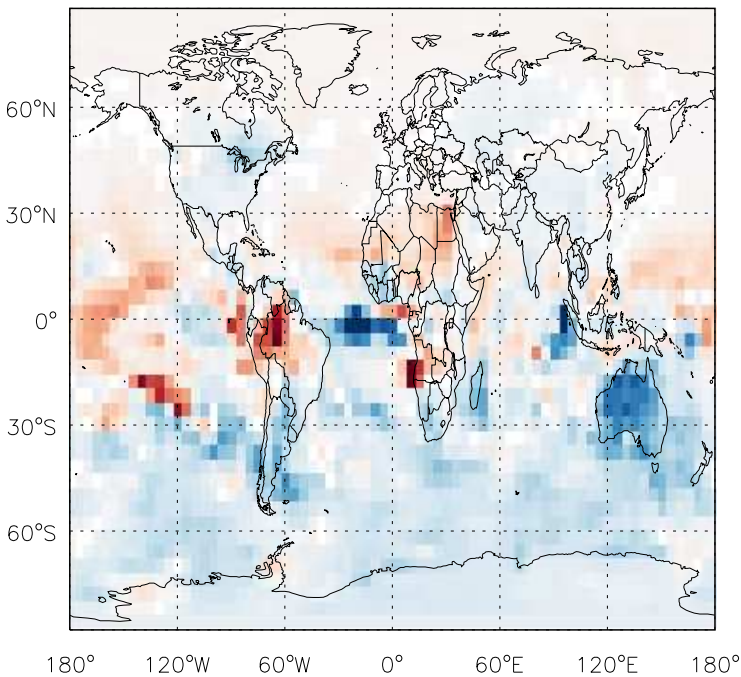
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PPN / Ratio @ Surface for Jan



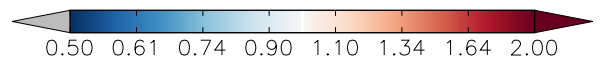
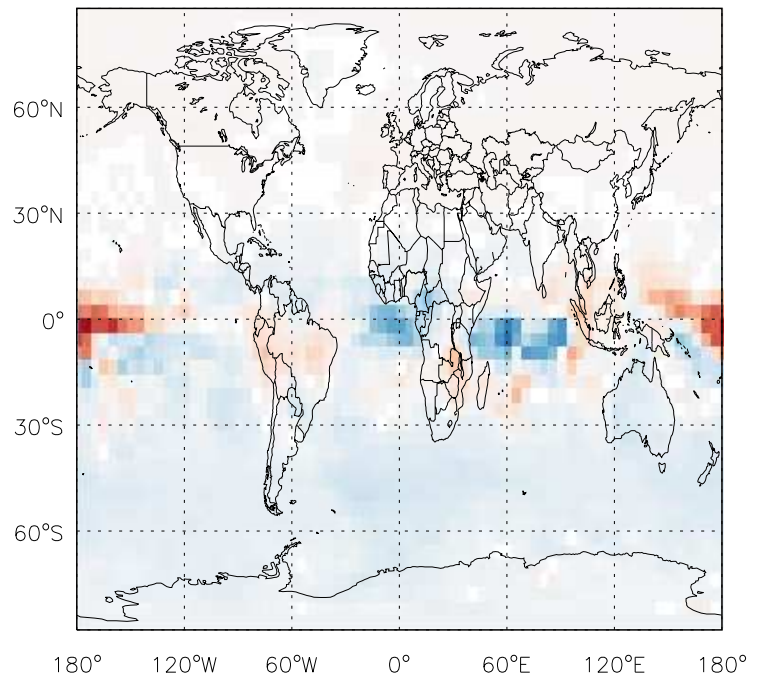
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PPN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
PPN / Ratio @ Surface for Jan



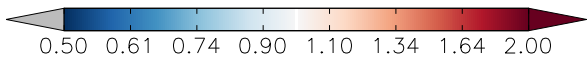
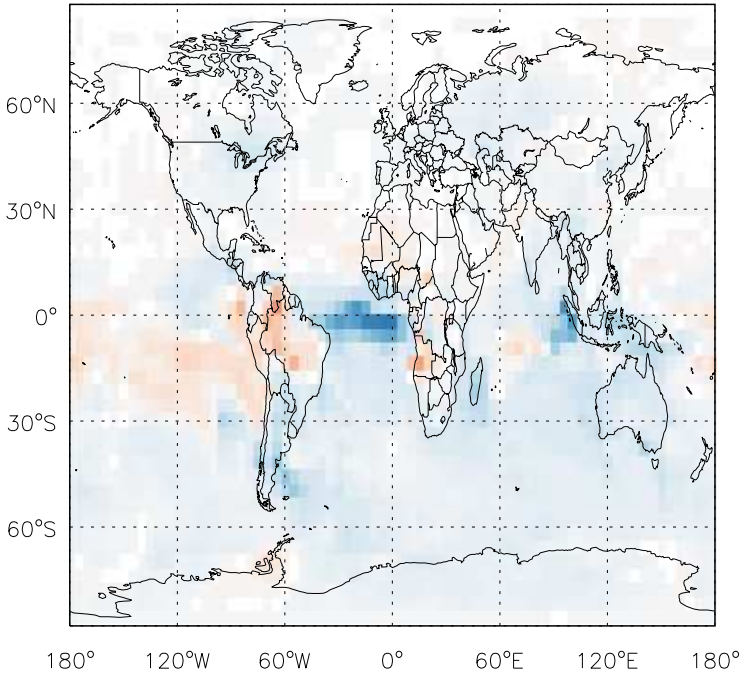
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PPN/ Ratio @ 500 hPa for Jan



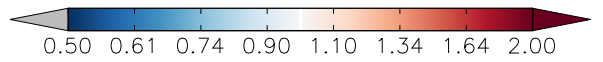
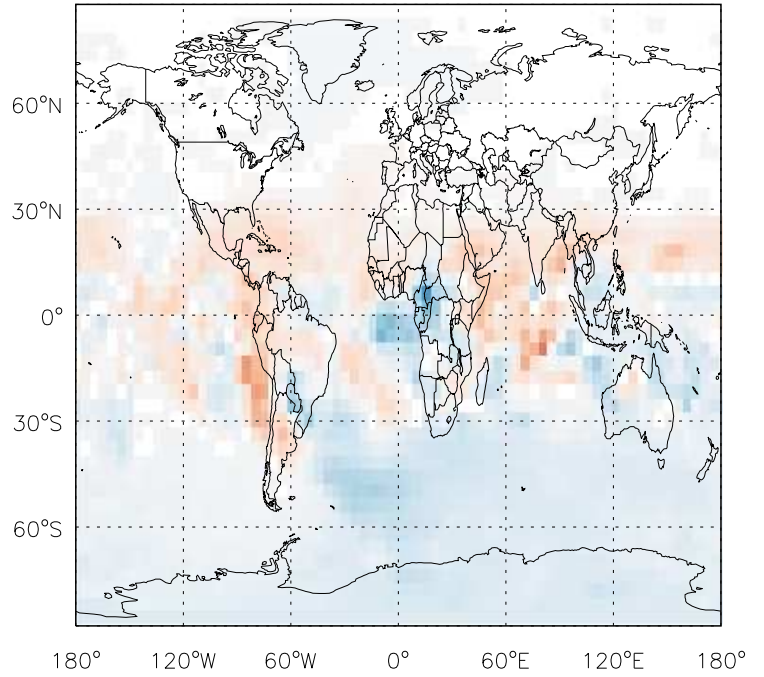


# GEOS-Chem Ratio Maps at surface and 500 hPa

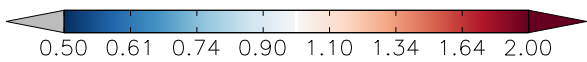
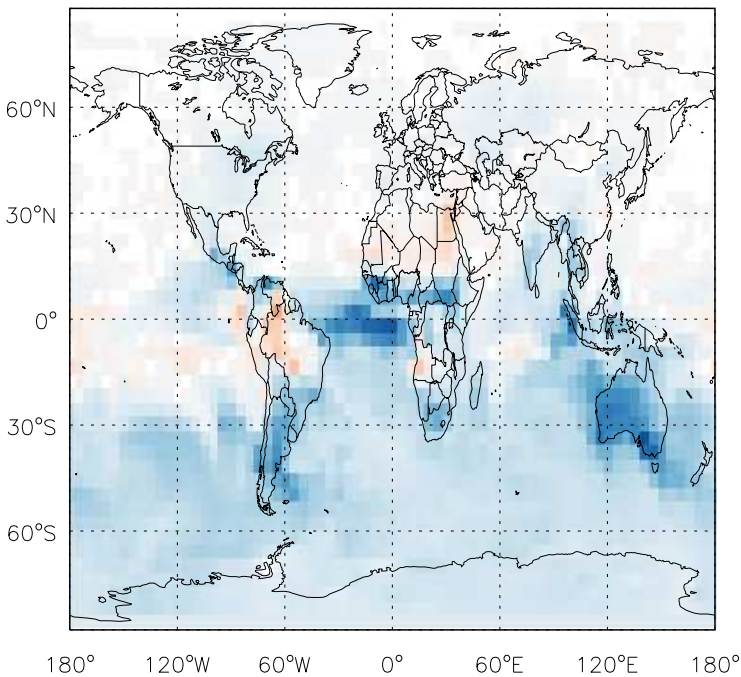
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
R4N2 / Ratio @ Surface for Jan



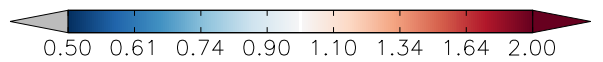
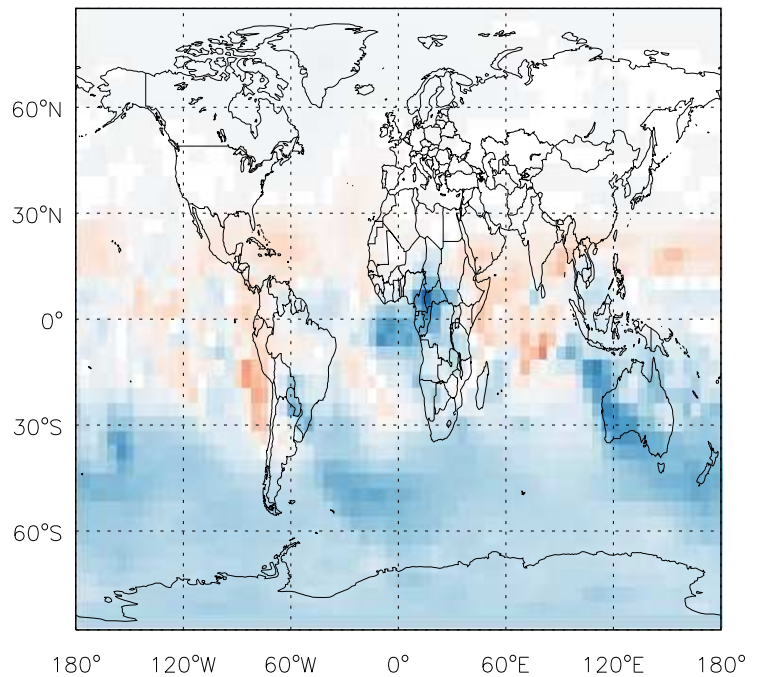
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
R4N2/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
R4N2 / Ratio @ Surface for Jan

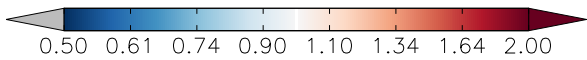
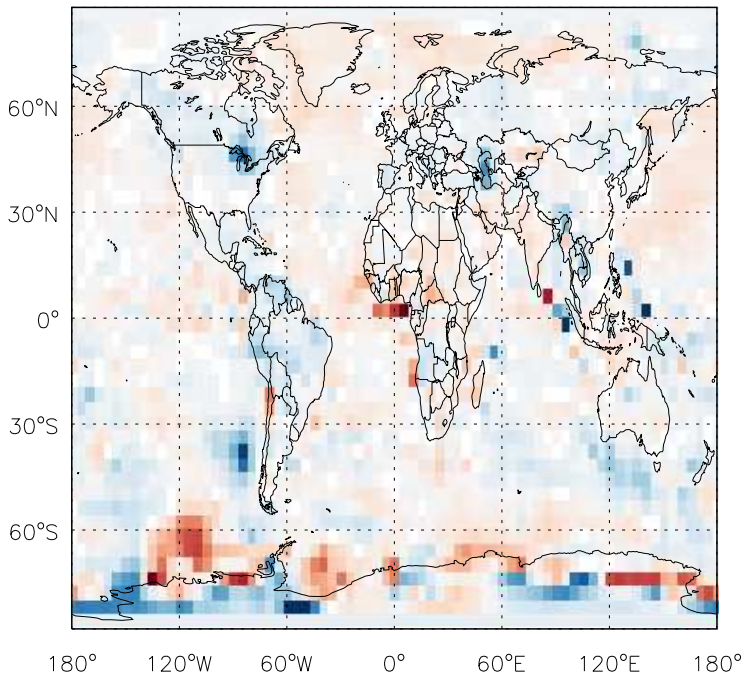


v11-01f-merra2-Run0 / v11-01d-Run1  
R4N2/ Ratio @ 500 hPa for Jan

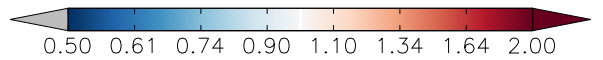
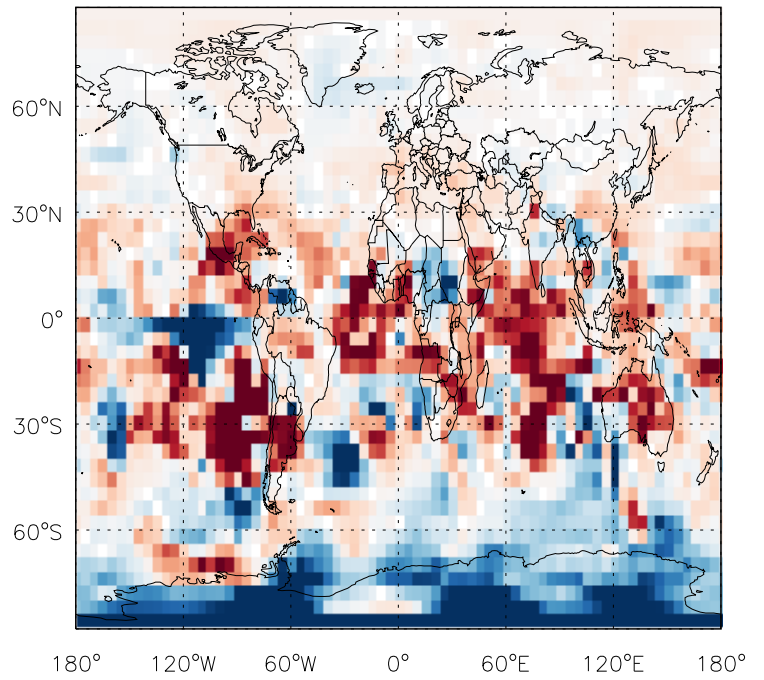


# GEOS-Chem Ratio Maps at surface and 500 hPa

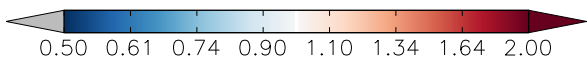
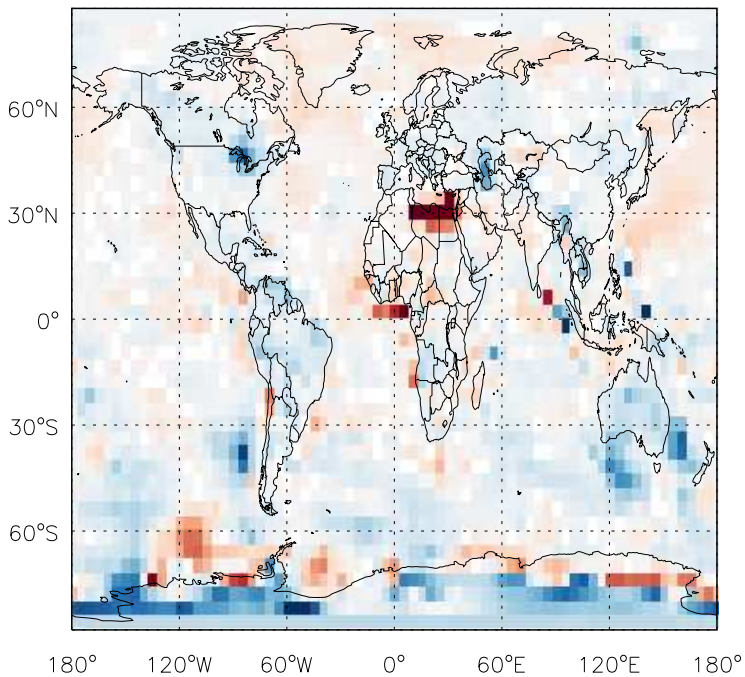
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PRPE / Ratio @ Surface for Jan



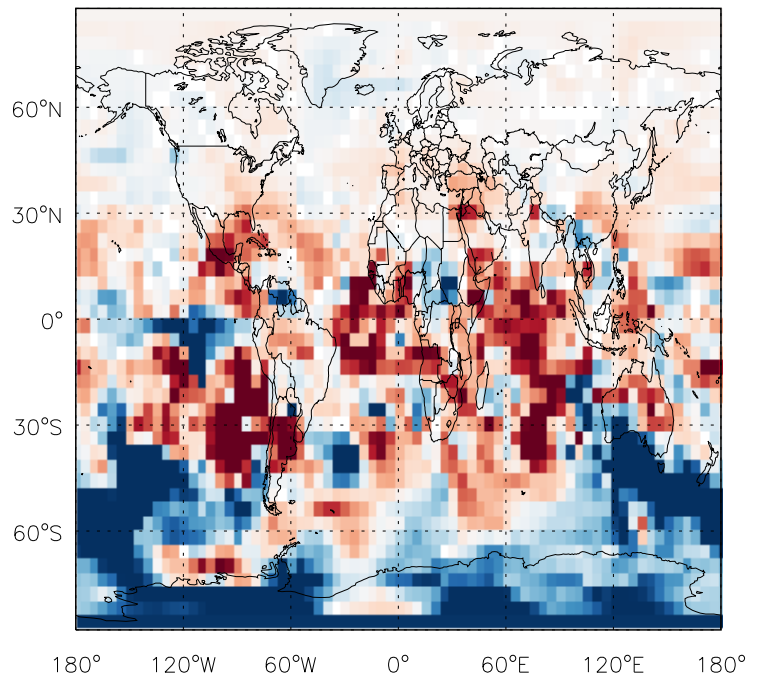
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
PRPE/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
PRPE / Ratio @ Surface for Jan

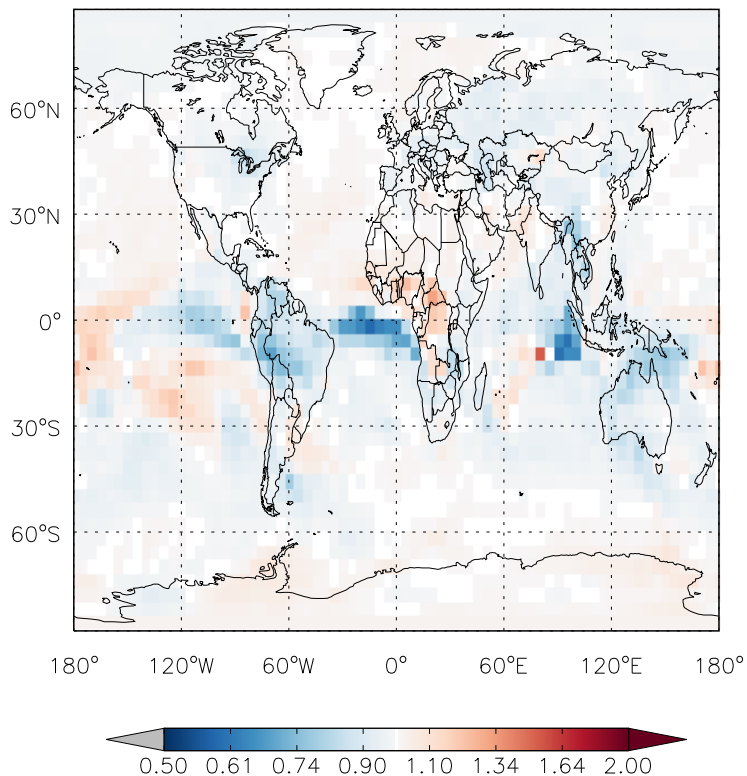


v11-01f-merra2-Run0 / v11-01d-Run1  
PRPE/ Ratio @ 500 hPa for Jan

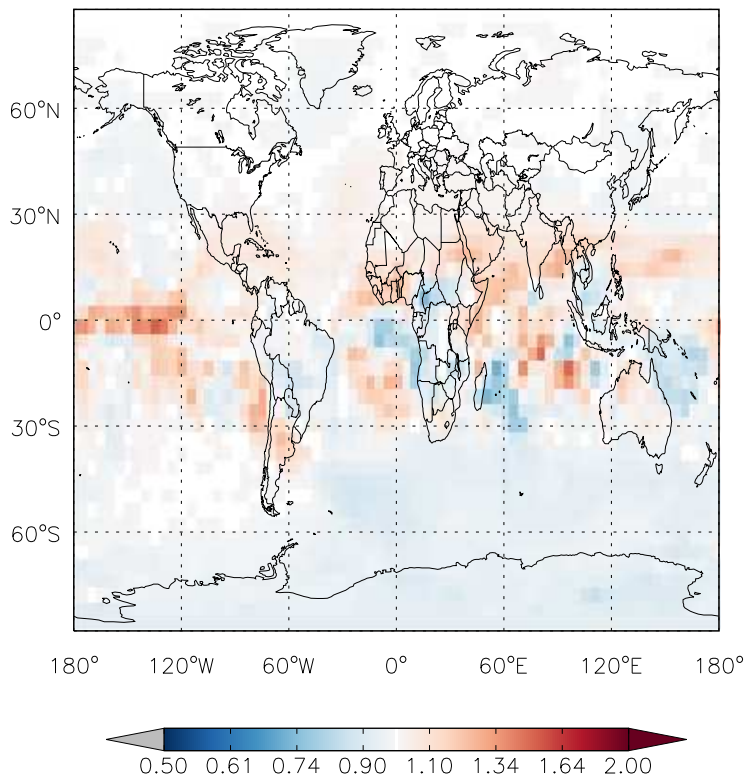


# GEOS-Chem Ratio Maps at surface and 500 hPa

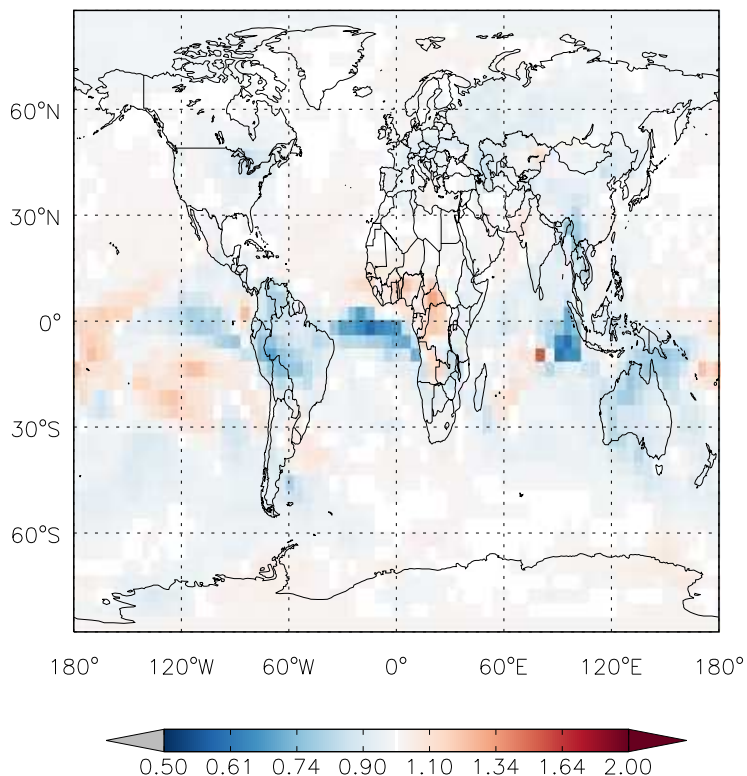
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
C3H8 / Ratio @ Surface for Jan



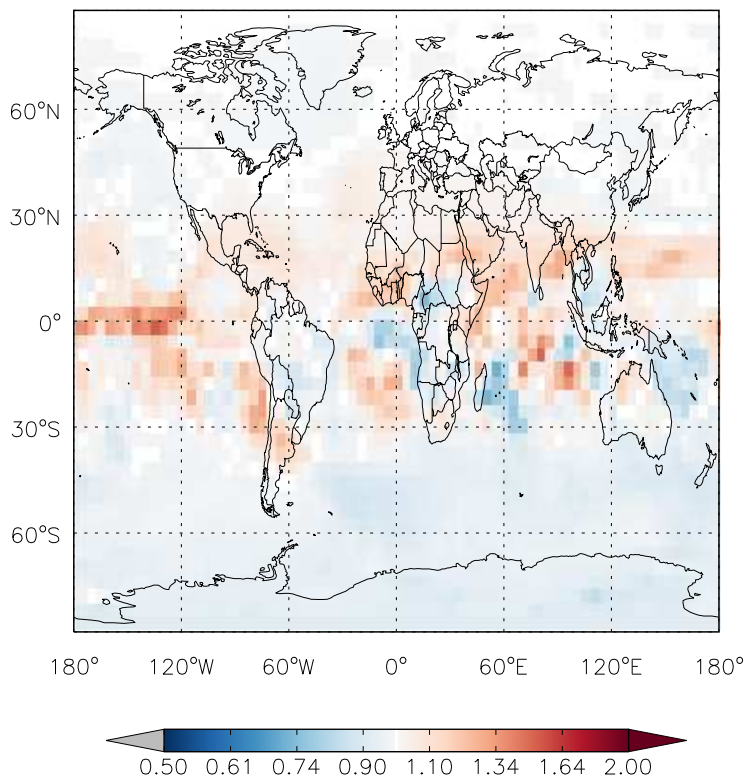
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
C3H8/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
C3H8 / Ratio @ Surface for Jan

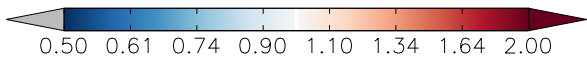
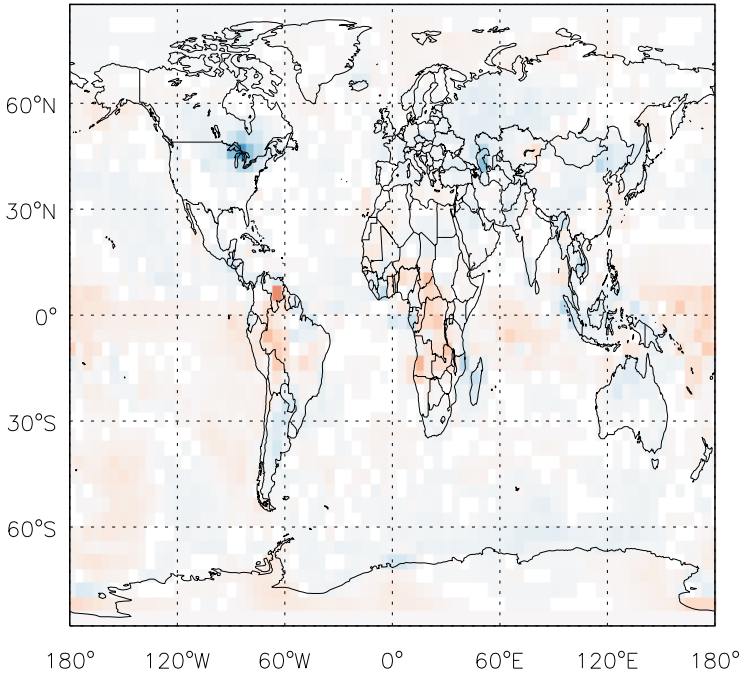


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C3H8/ Ratio @ 500 hPa for Jan

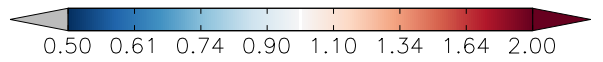
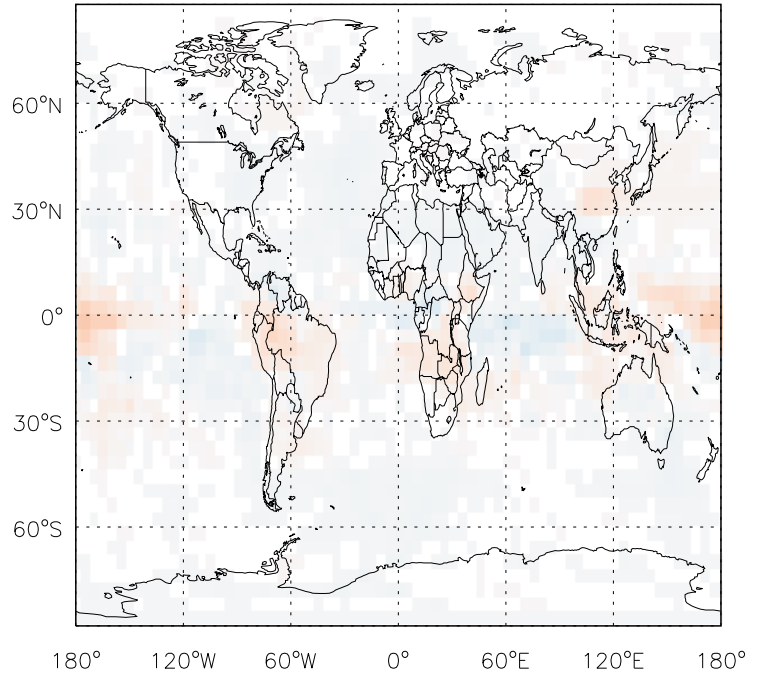


GEOS-Chem Ratio Maps at surface and 500 hPa

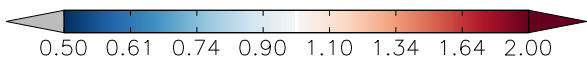
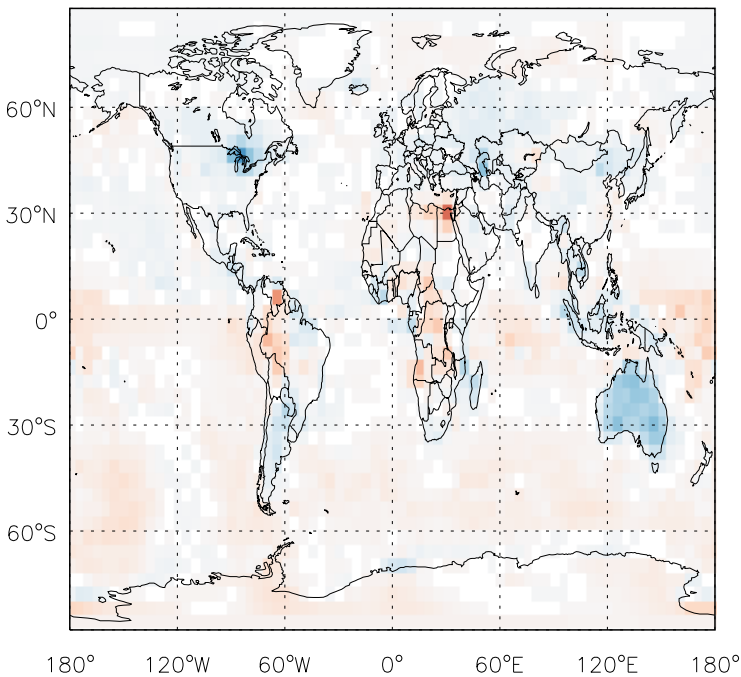
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH20 / Ratio @ Surface for Jan



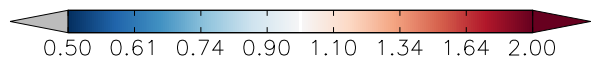
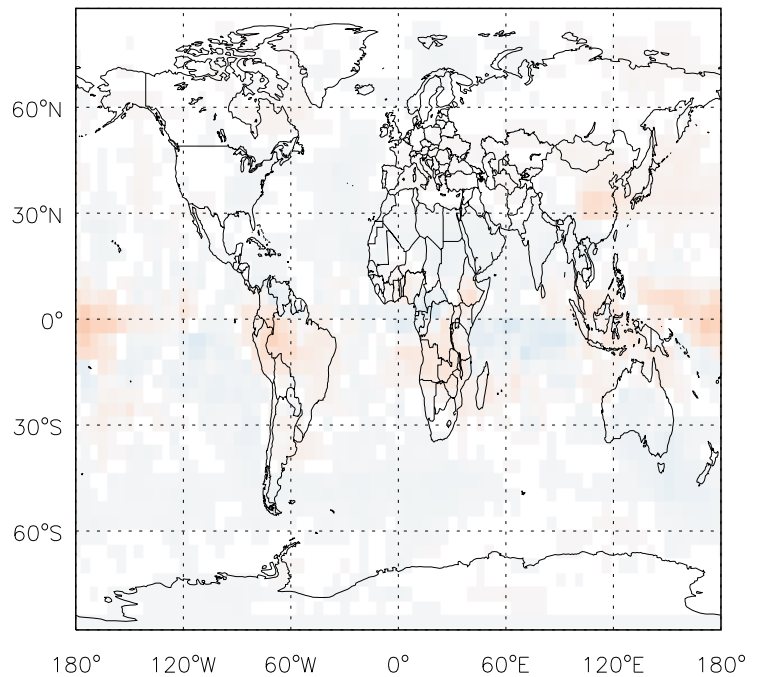
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH20/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CH20 / Ratio @ Surface for Jan

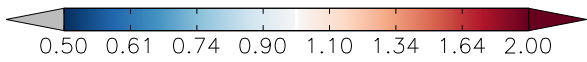
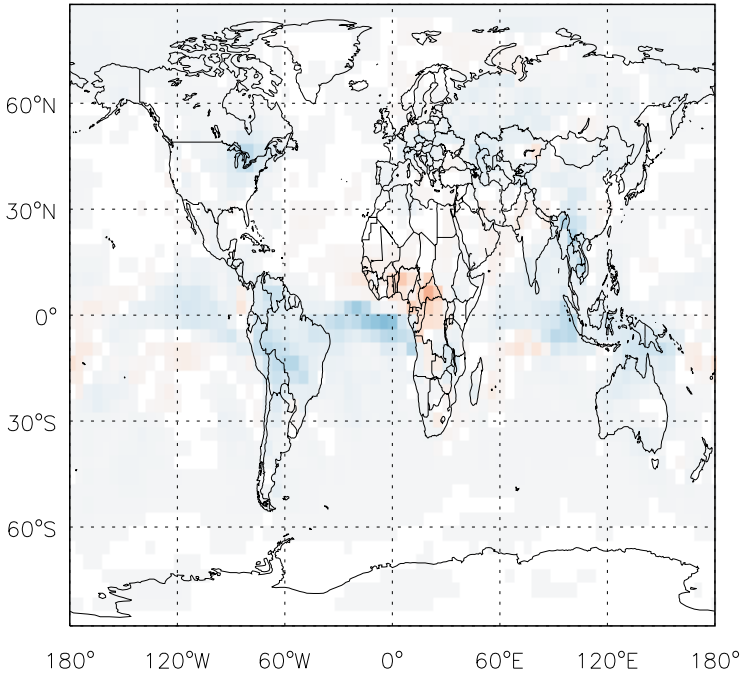


v11-01f-merra2-Run0 / v11-01d-Run1  
CH20/ Ratio @ 500 hPa for Jan

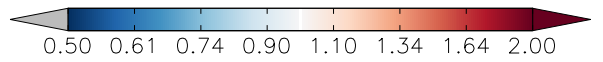
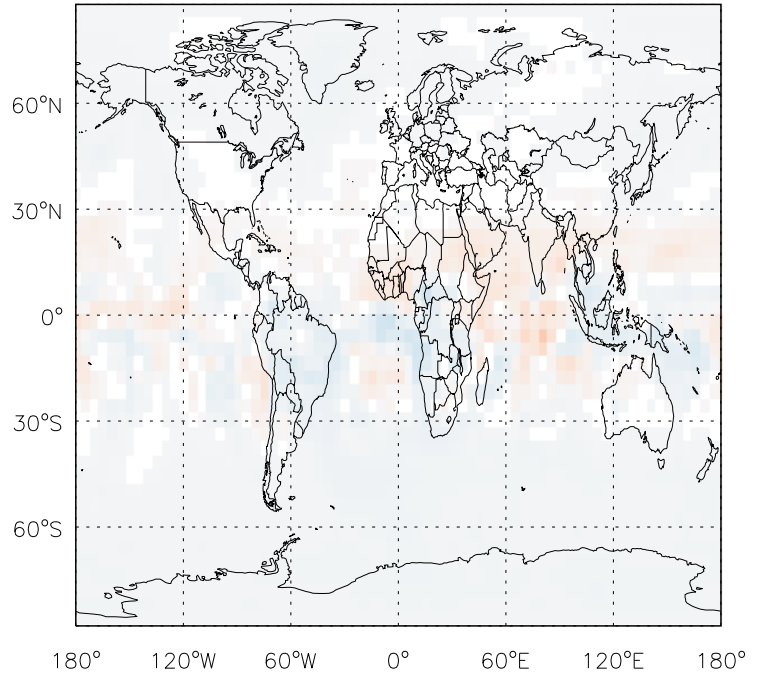


GEOS-Chem Ratio Maps at surface and 500 hPa

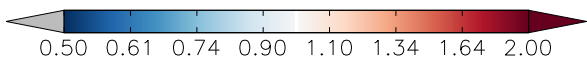
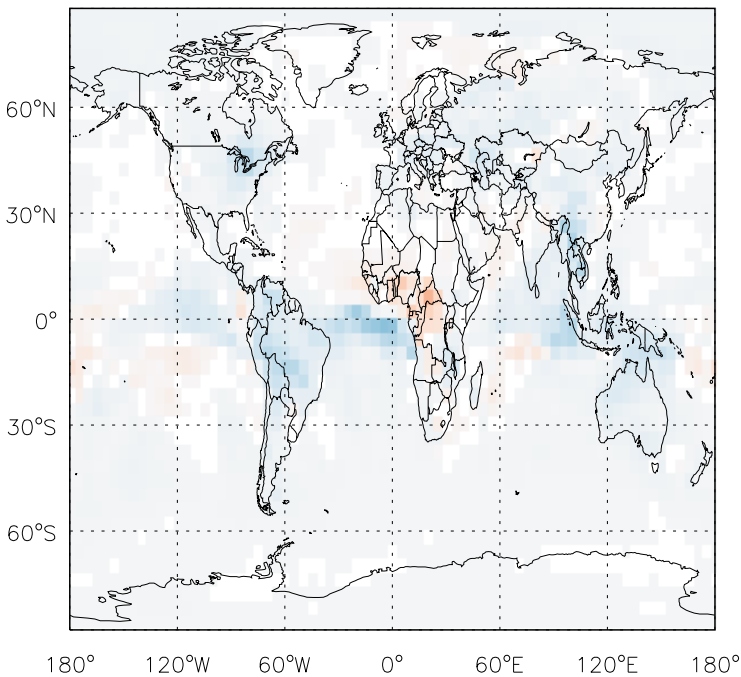
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
C2H6 / Ratio @ Surface for Jan



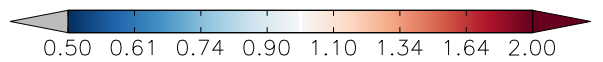
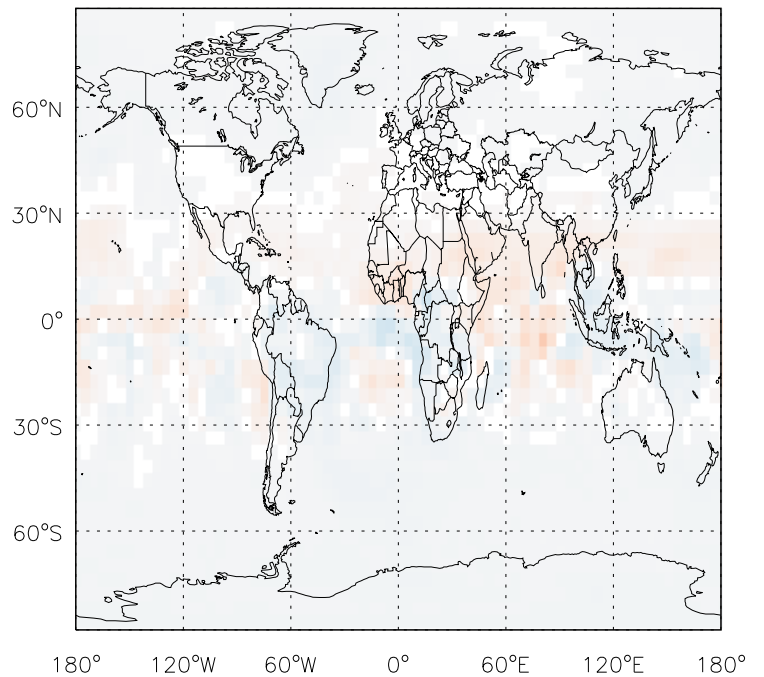
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
C2H6/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
C2H6 / Ratio @ Surface for Jan

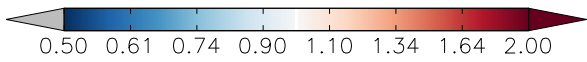
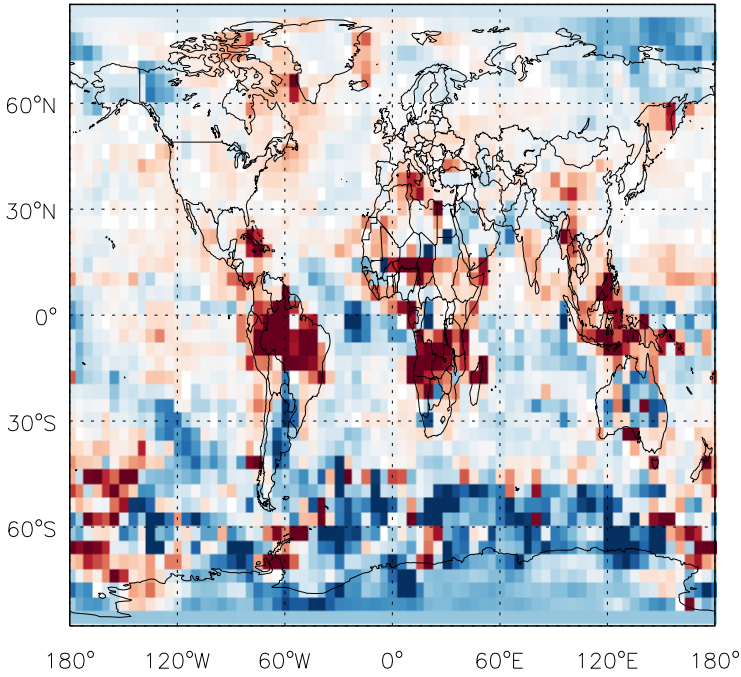


v11-01f-merra2-Run0 / v11-01d-Run1  
C2H6/ Ratio @ 500 hPa for Jan

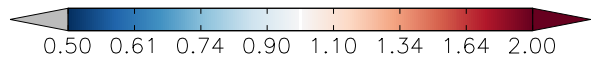
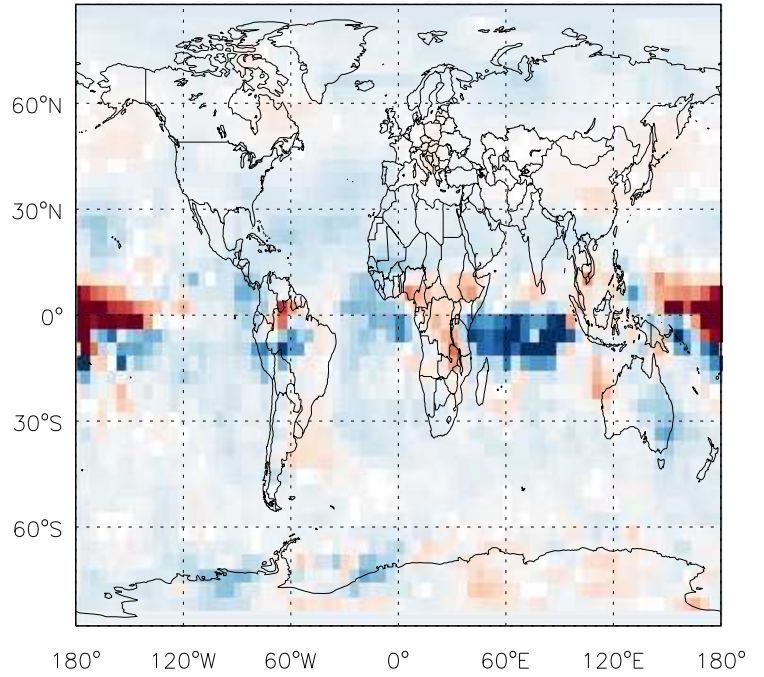


GEOS-Chem Ratio Maps at surface and 500 hPa

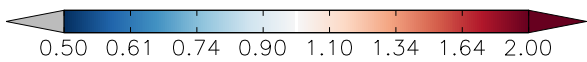
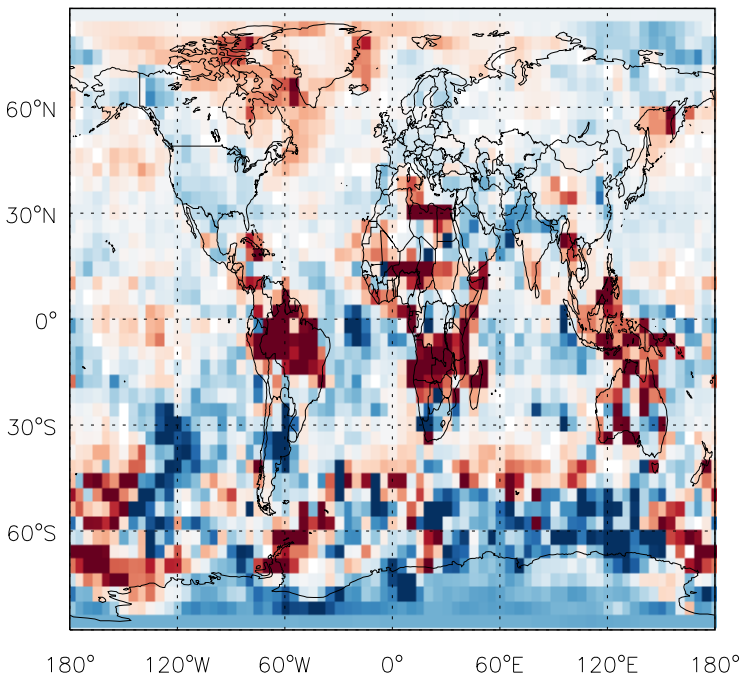
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
N2O5 / Ratio @ Surface for Jan



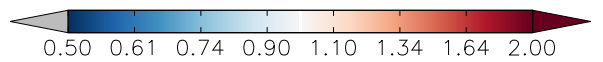
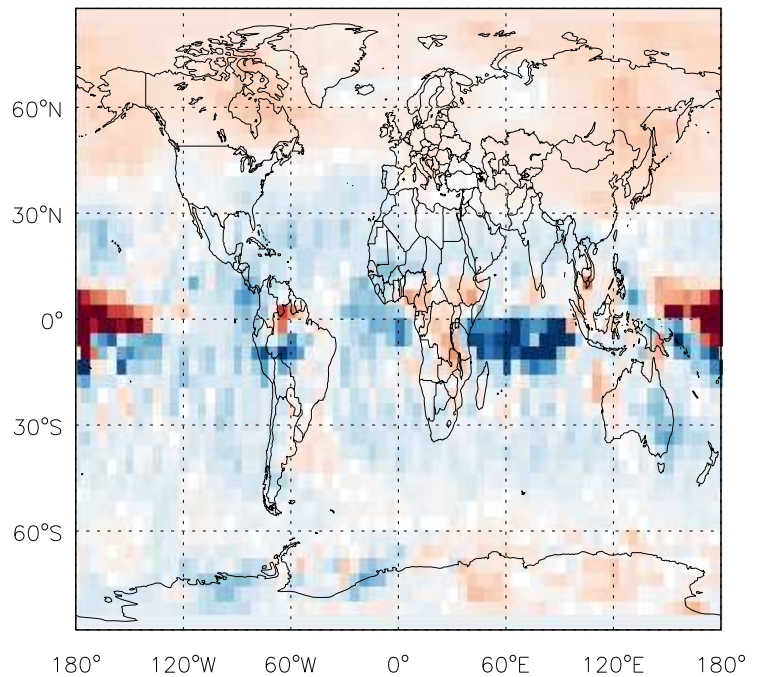
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
N2O5/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
N2O5 / Ratio @ Surface for Jan

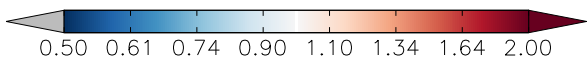
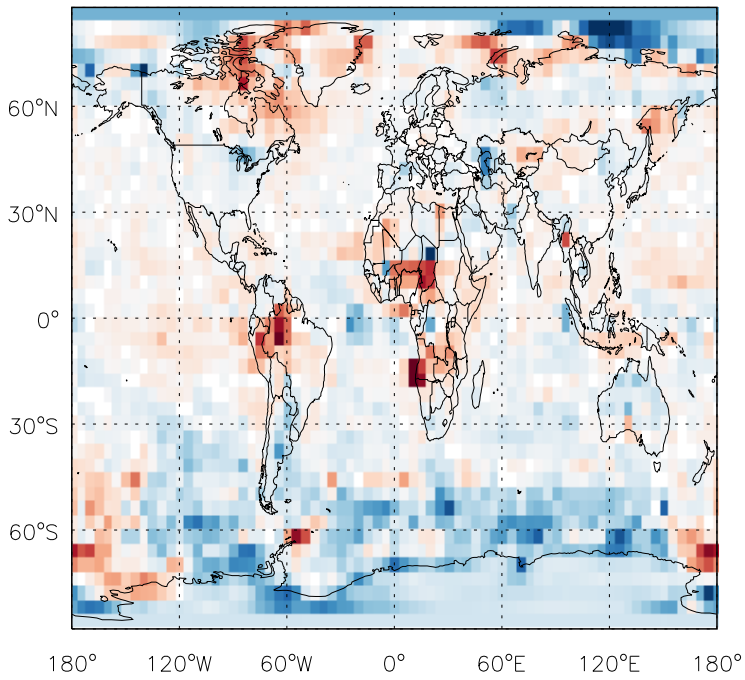


v11-01f-merra2-Run0 / v11-01d-Run1  
N2O5/ Ratio @ 500 hPa for Jan

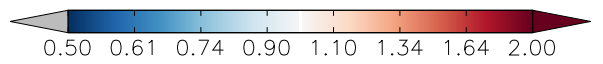
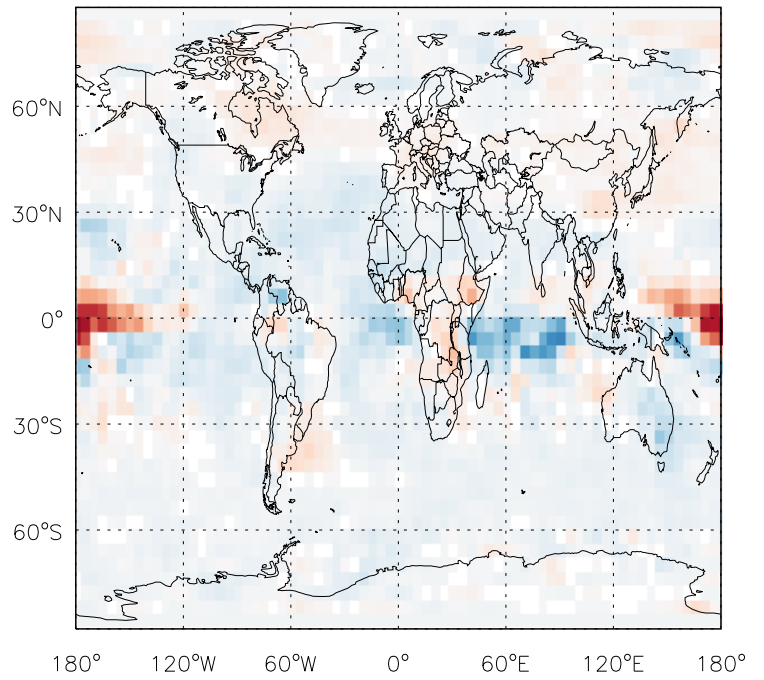


GEOS-Chem Ratio Maps at surface and 500 hPa

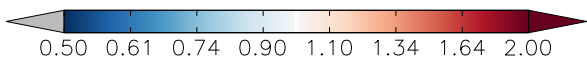
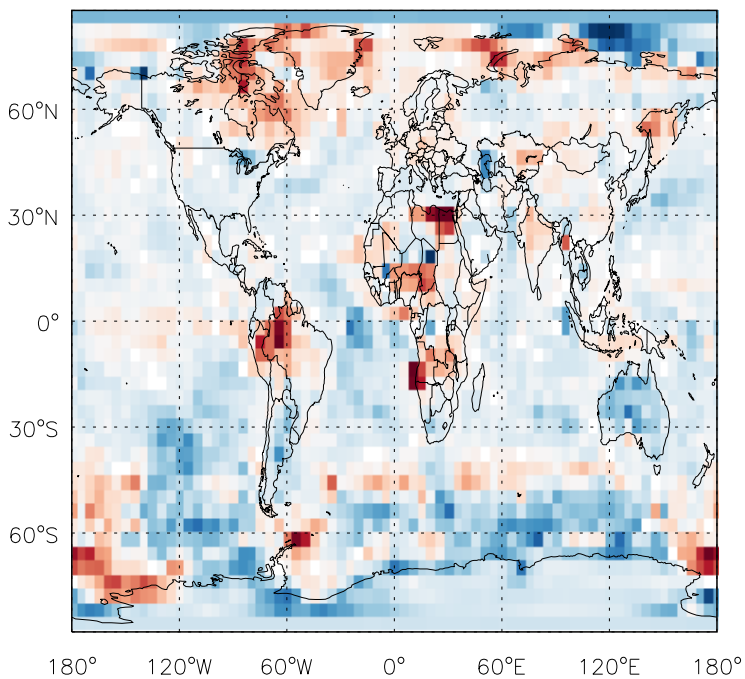
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HN04 / Ratio @ Surface for Jan



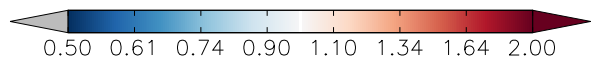
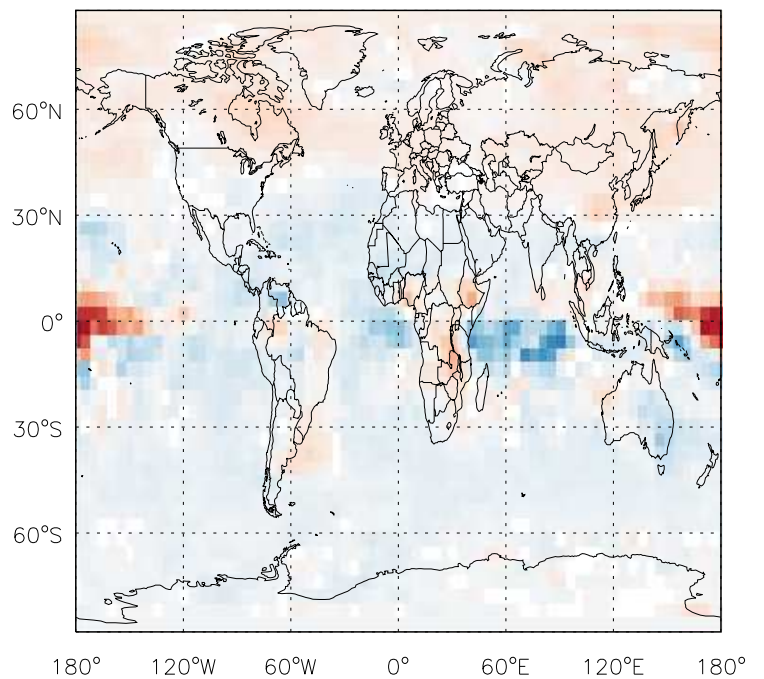
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HN04/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HN04 / Ratio @ Surface for Jan

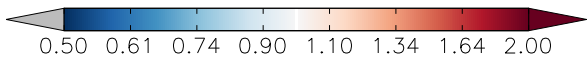
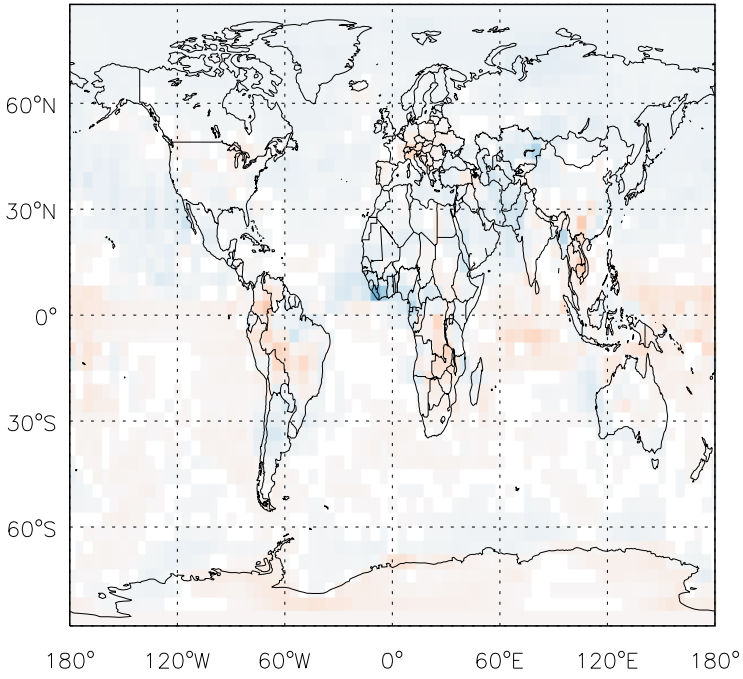


v11-01f-merra2-Run0 / v11-01d-Run1  
HN04/ Ratio @ 500 hPa for Jan

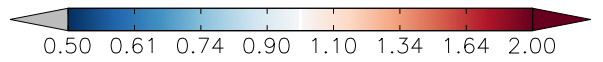
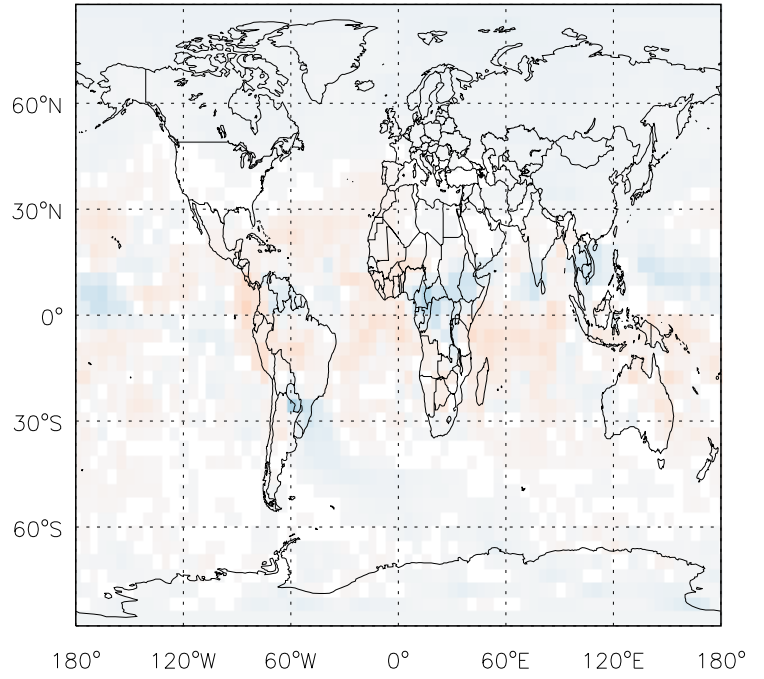


GEOS-Chem Ratio Maps at surface and 500 hPa

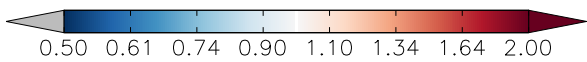
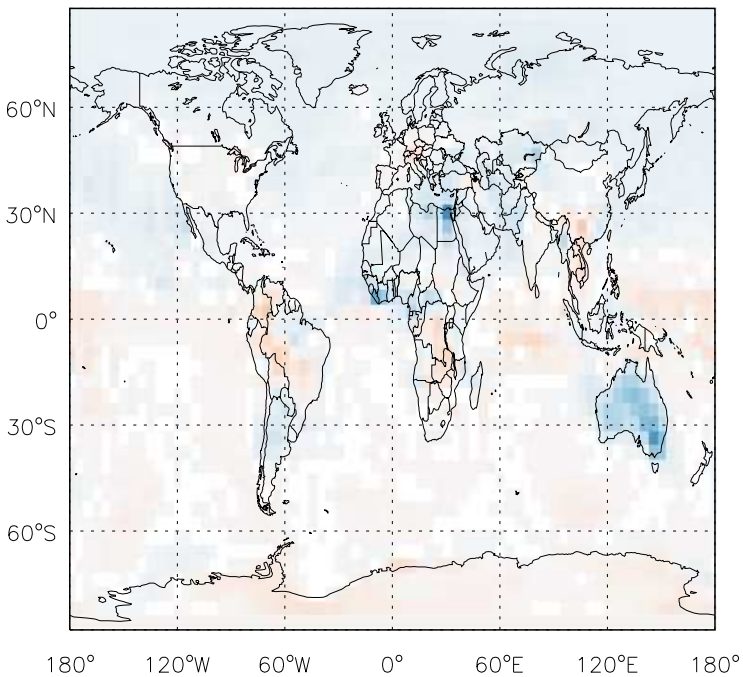
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MP / Ratio @ Surface for Jan



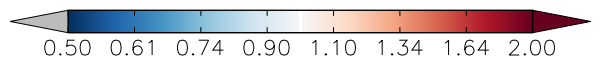
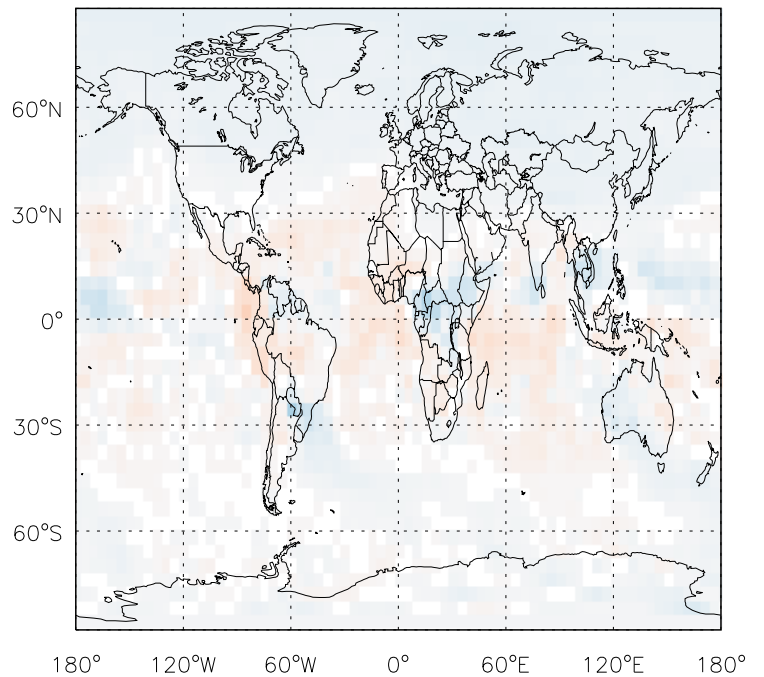
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MP/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MP / Ratio @ Surface for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MP/ Ratio @ 500 hPa for Jan

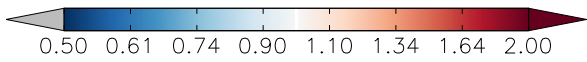
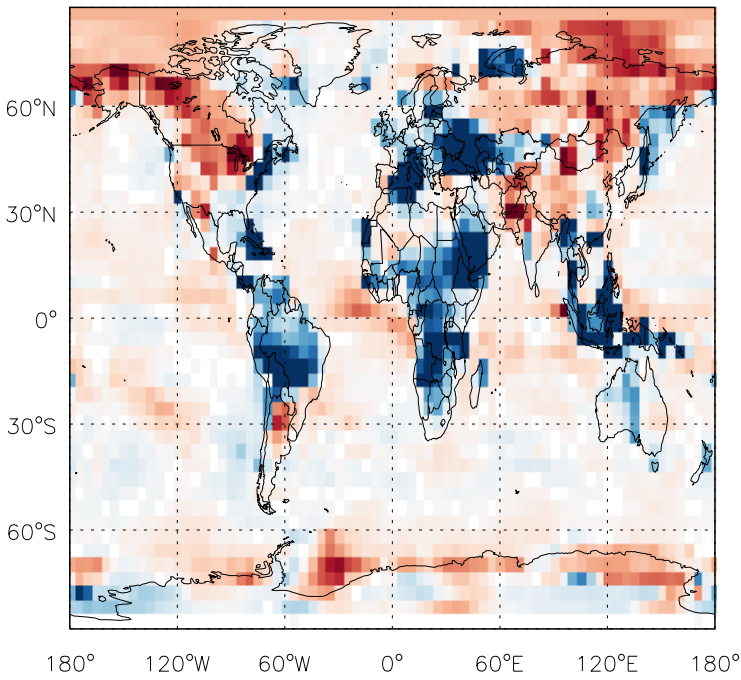




# GEOS-Chem Ratio Maps at surface and 500 hPa

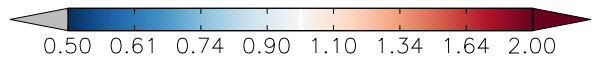
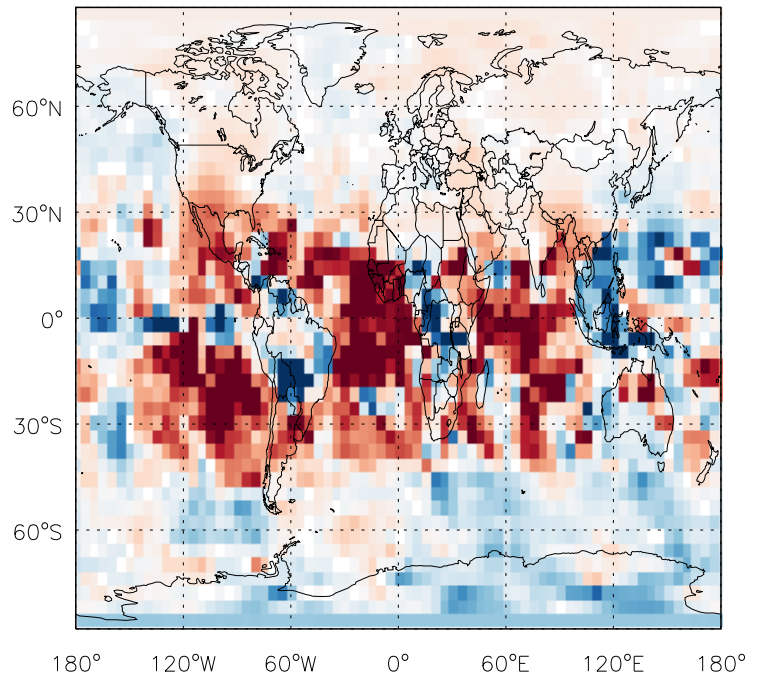
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

DMS / Ratio @ Surface for Jan



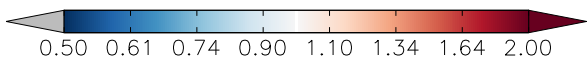
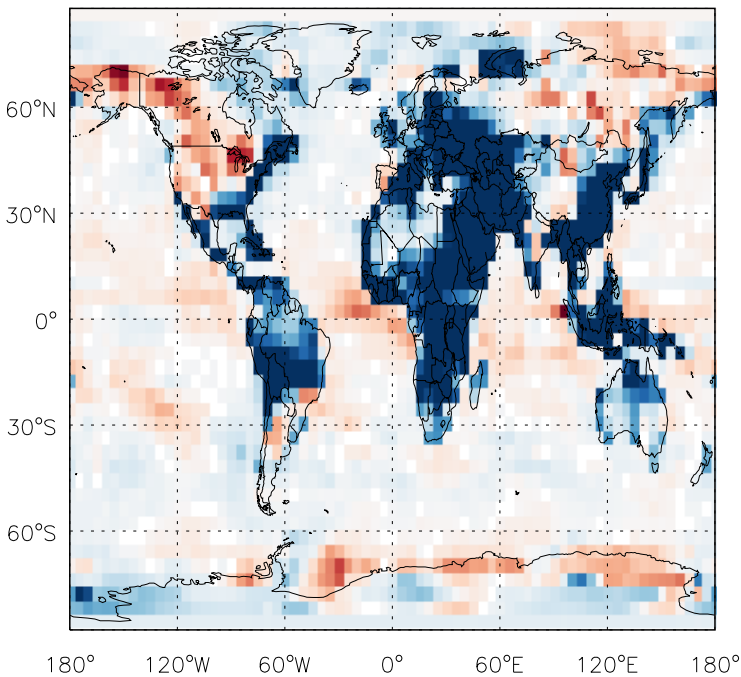
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

DMS/ Ratio @ 500 hPa for Jan



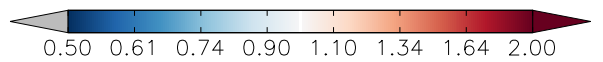
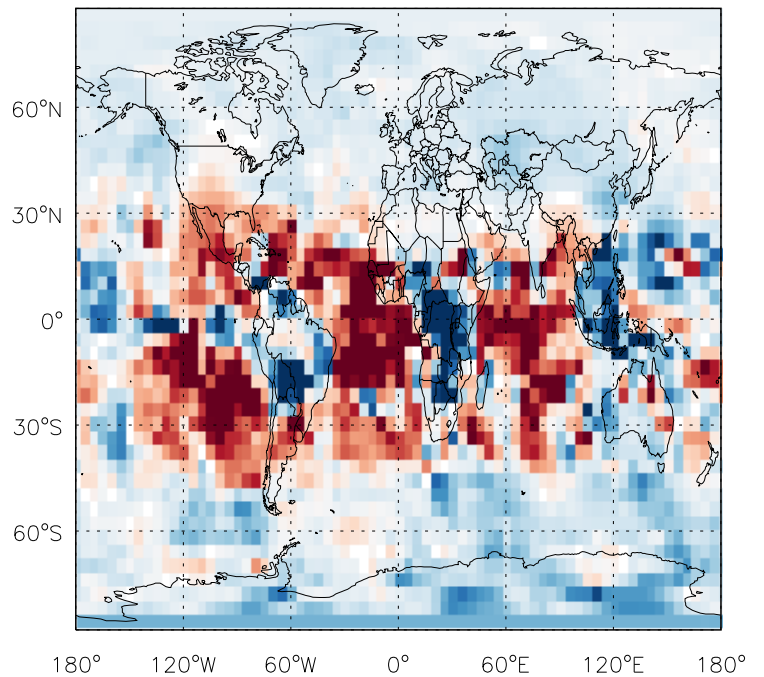
v11-01f-merra2-Run0 / v11-01d-Run1

DMS / Ratio @ Surface for Jan



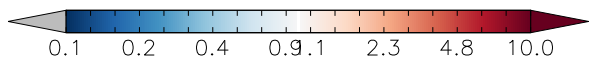
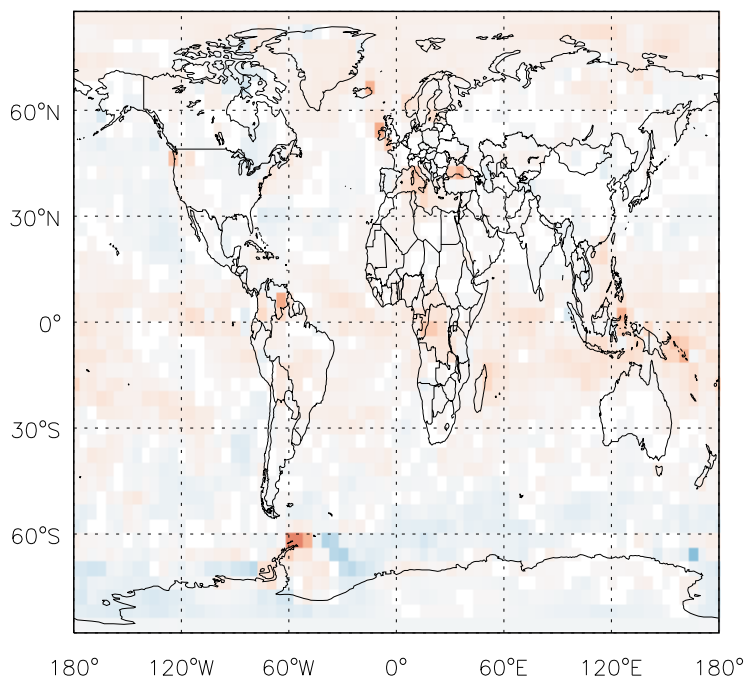
v11-01f-merra2-Run0 / v11-01d-Run1

DMS/ Ratio @ 500 hPa for Jan

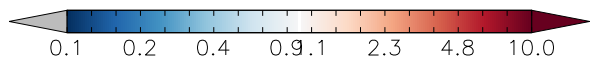
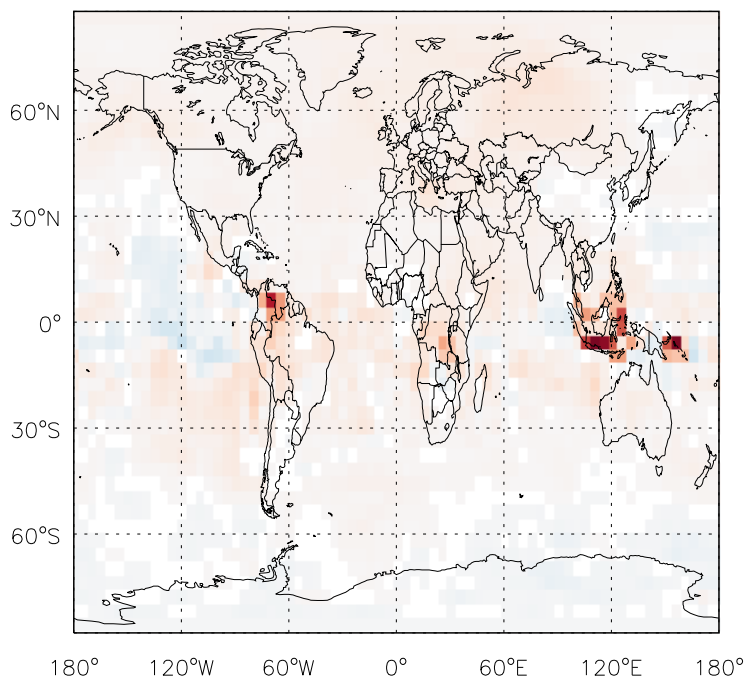


# GEOS-Chem Ratio Maps at surface and 500 hPa

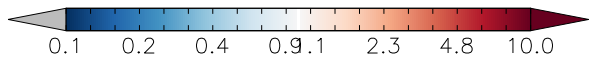
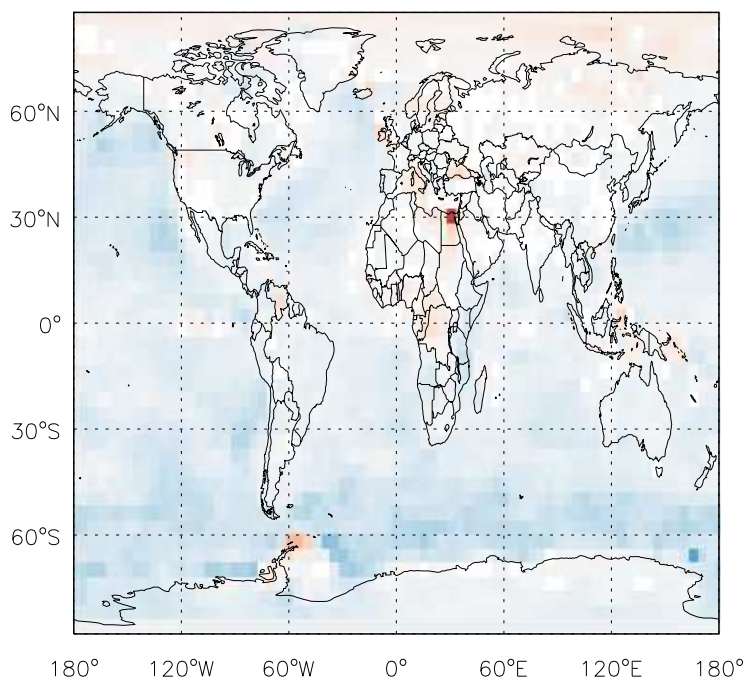
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO<sub>2</sub> / Ratio @ Surface for Jan



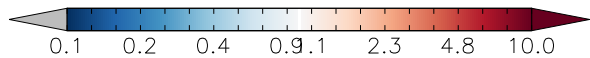
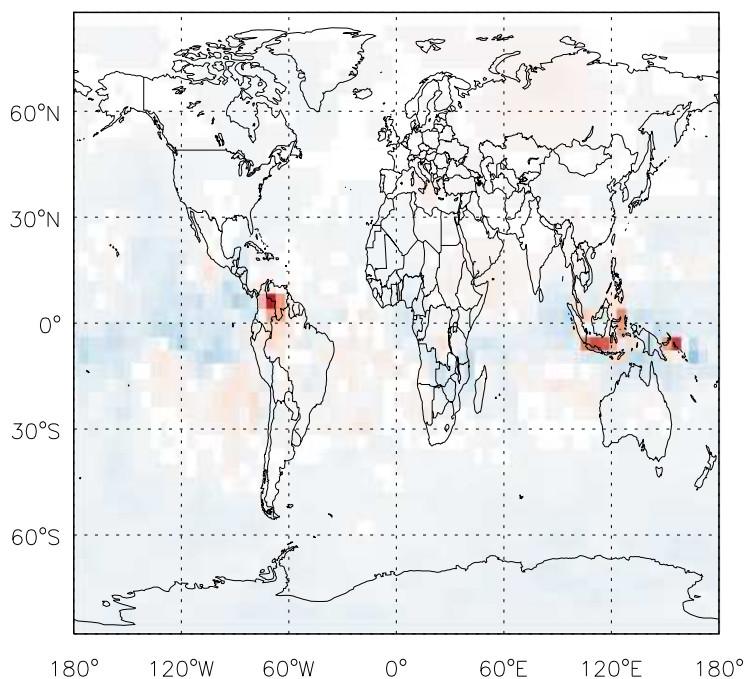
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO<sub>2</sub> / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
SO<sub>2</sub> / Ratio @ Surface for Jan

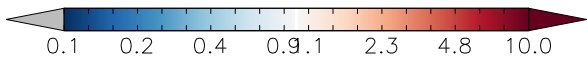
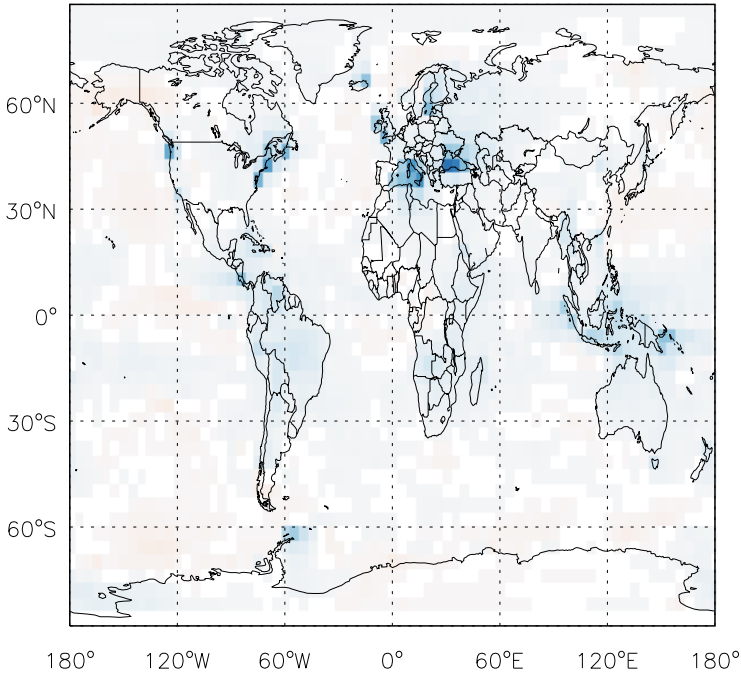


v11-01f-merra2-Run0 / v11-01d-Run1  
SO<sub>2</sub> / Ratio @ 500 hPa for Jan

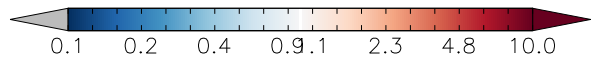
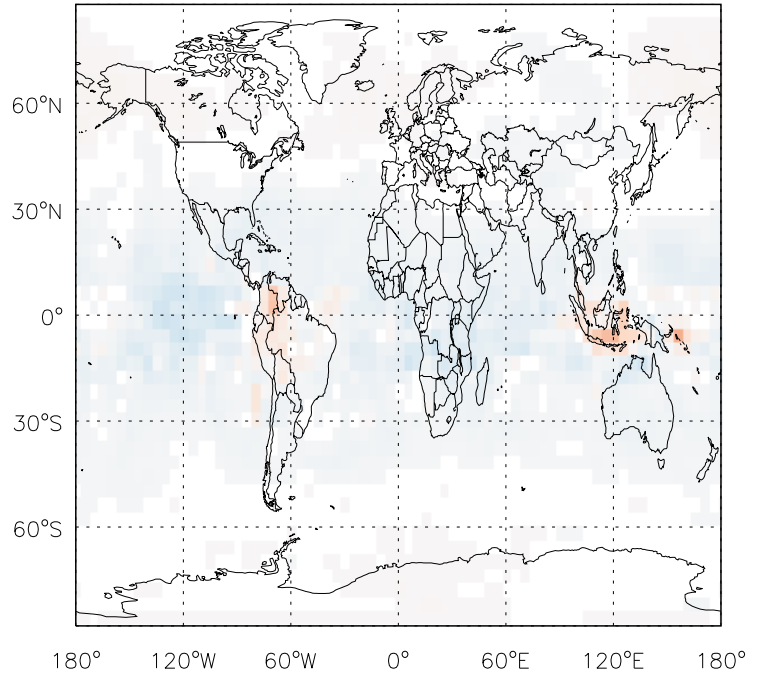


# GEOS-Chem Ratio Maps at surface and 500 hPa

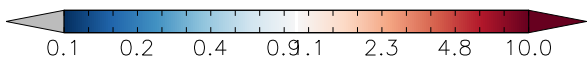
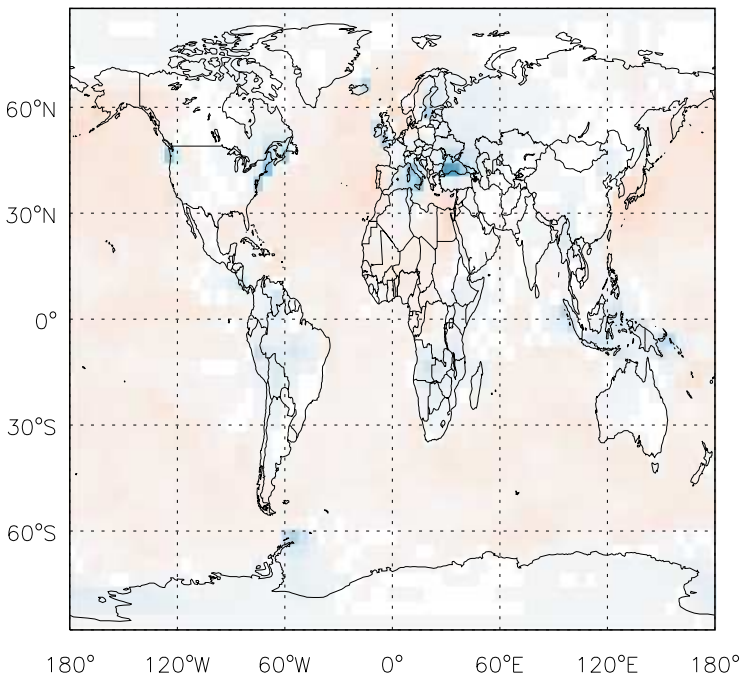
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO<sub>4</sub> / Ratio @ Surface for Jan



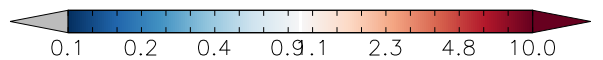
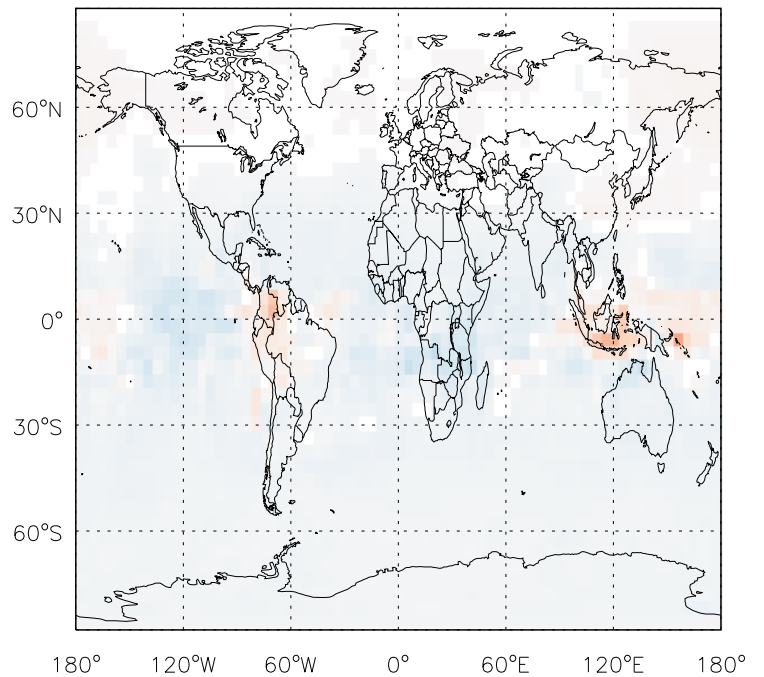
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO<sub>4</sub> / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
SO<sub>4</sub> / Ratio @ Surface for Jan

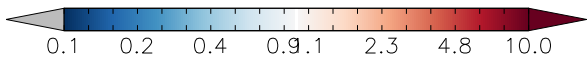
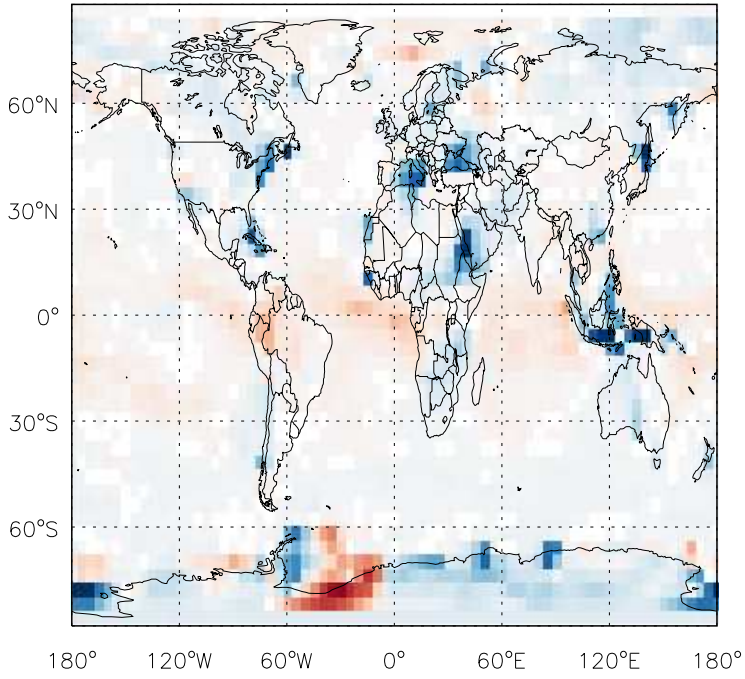


v11-01f-merra2-Run0 / v11-01d-Run1  
SO<sub>4</sub> / Ratio @ 500 hPa for Jan

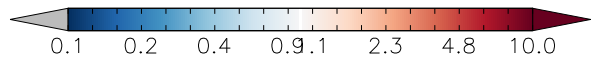
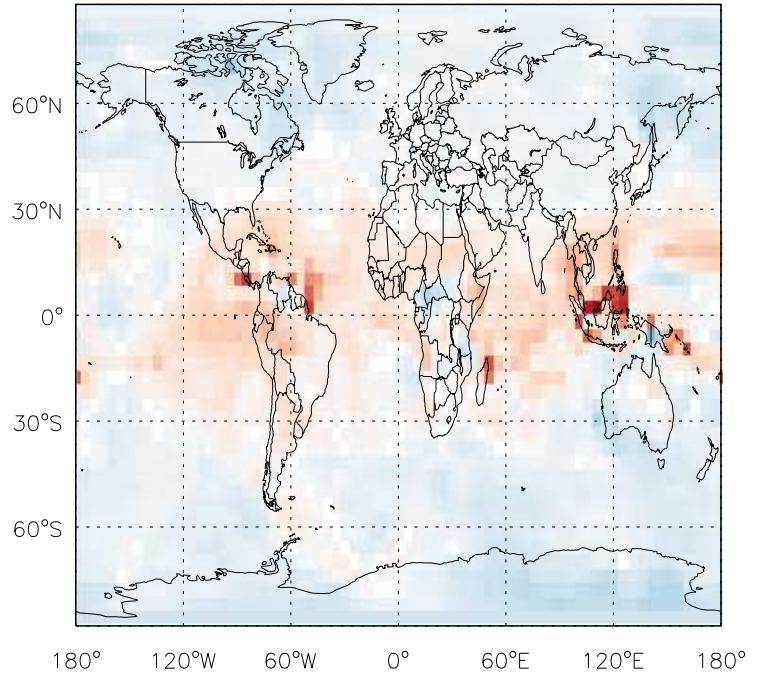


GEOS-Chem Ratio Maps at surface and 500 hPa

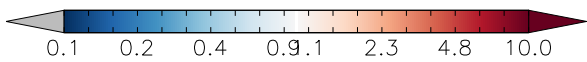
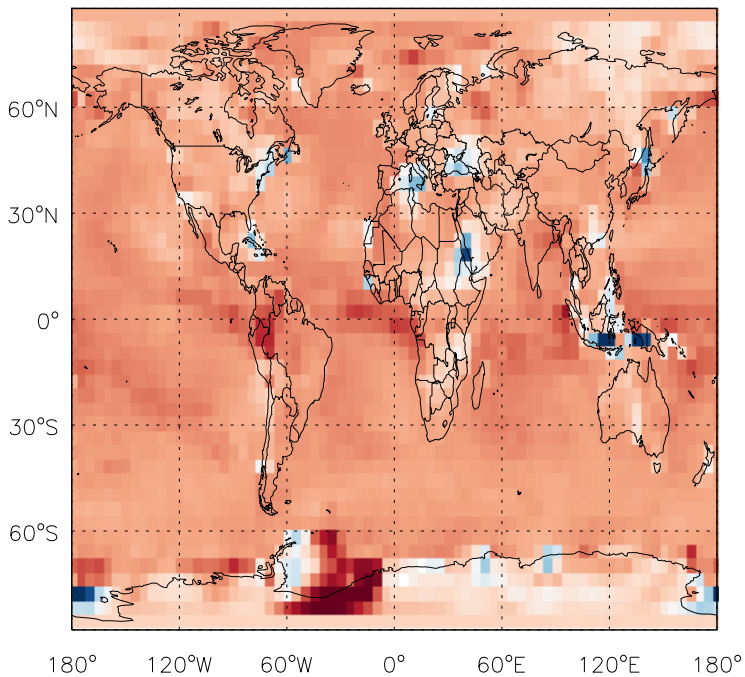
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO4s / Ratio @ Surface for Jan



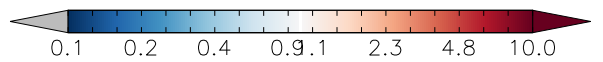
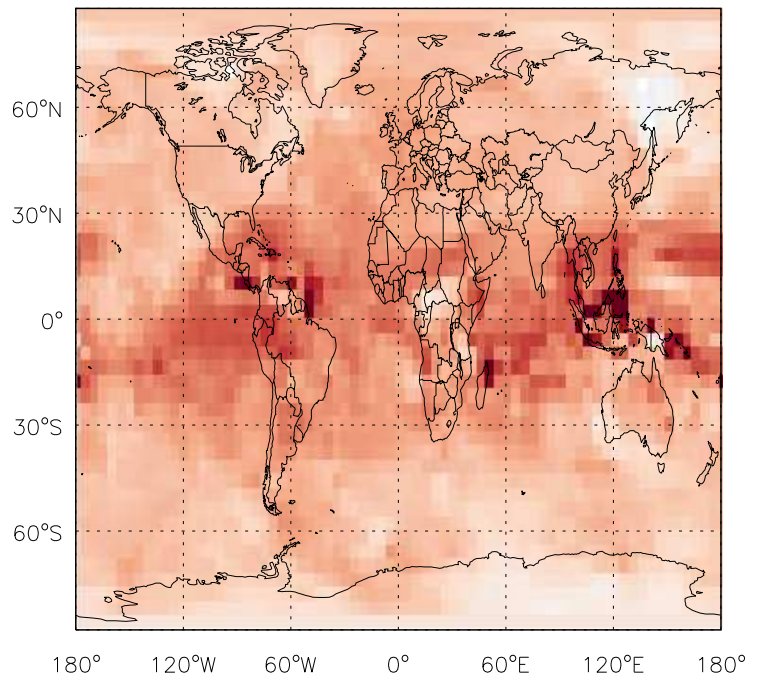
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SO4s/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
SO4s / Ratio @ Surface for Jan

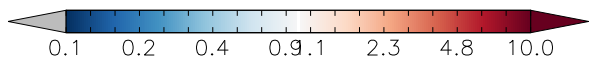
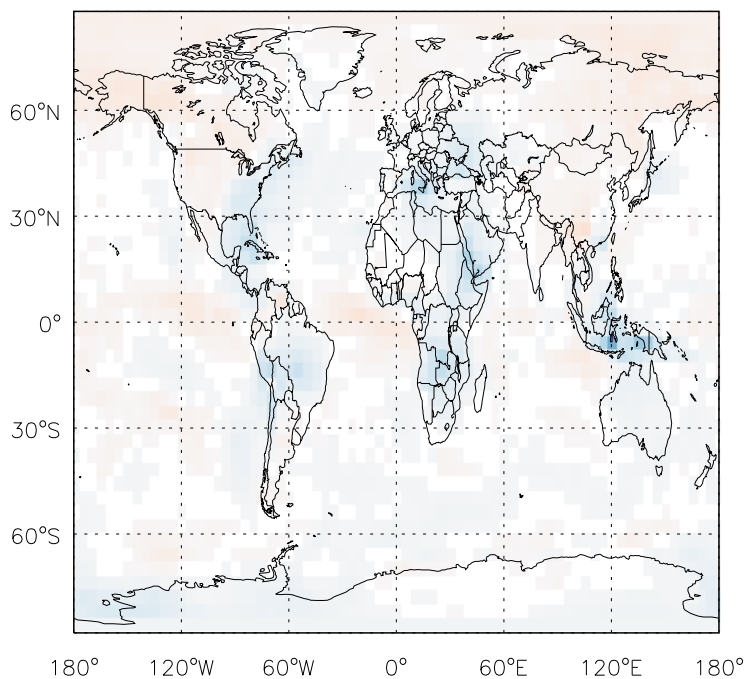


v11-01f-merra2-Run0 / v11-01d-Run1  
SO4s/ Ratio @ 500 hPa for Jan

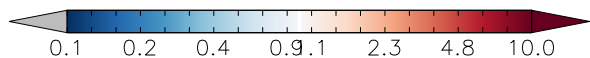
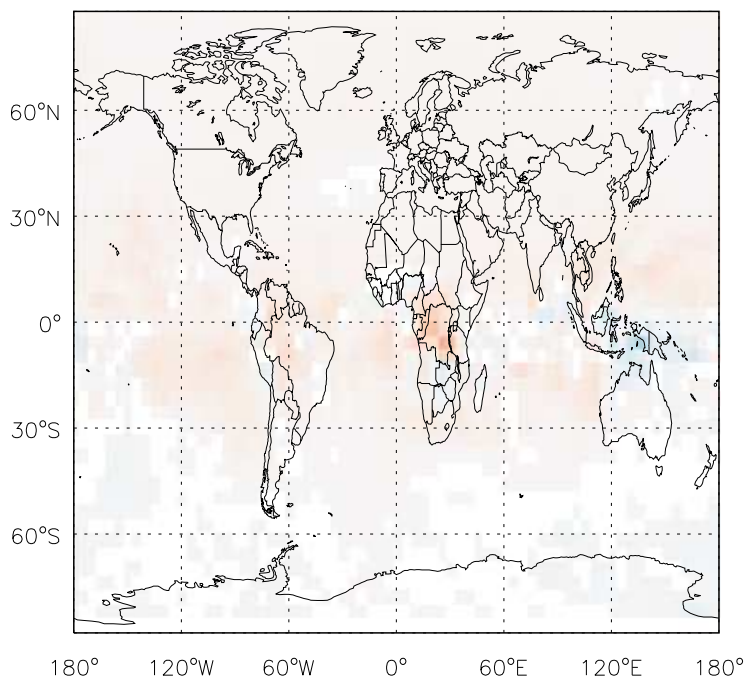


# GEOS-Chem Ratio Maps at surface and 500 hPa

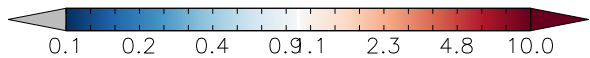
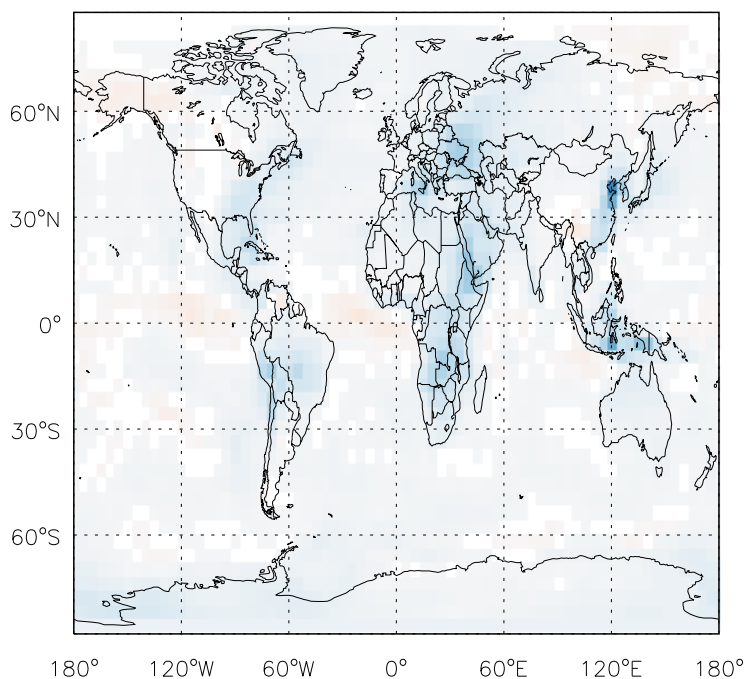
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MSA / Ratio @ Surface for Jan



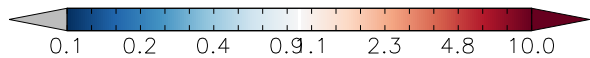
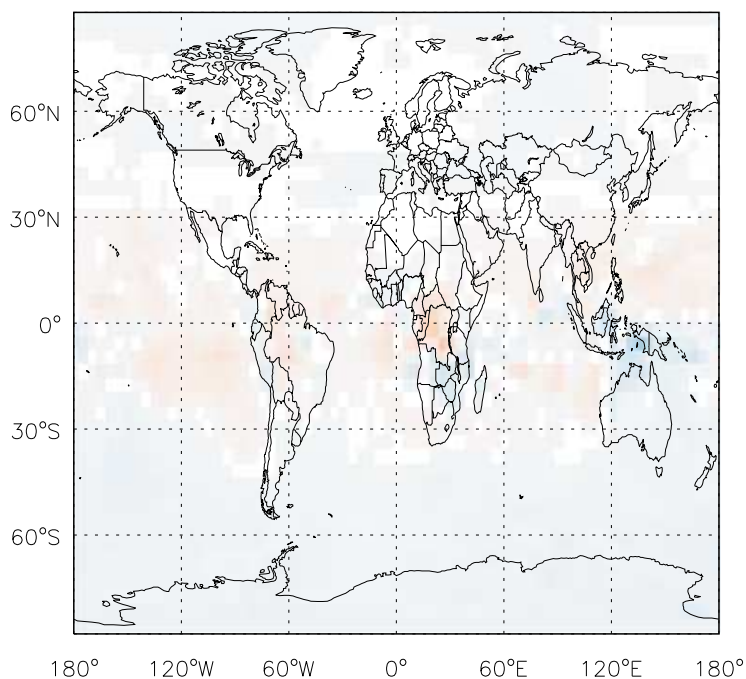
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MSA/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MSA / Ratio @ Surface for Jan

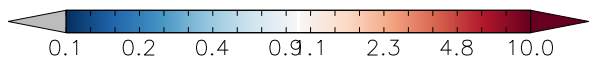
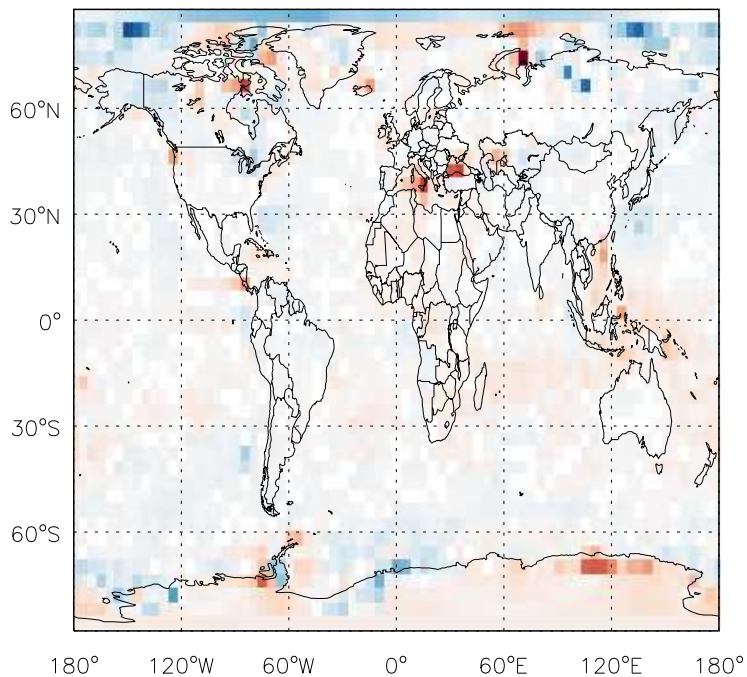


v11-01f-merra2-Run0 / v11-01d-Run1  
MSA/ Ratio @ 500 hPa for Jan

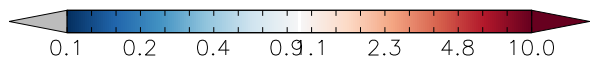
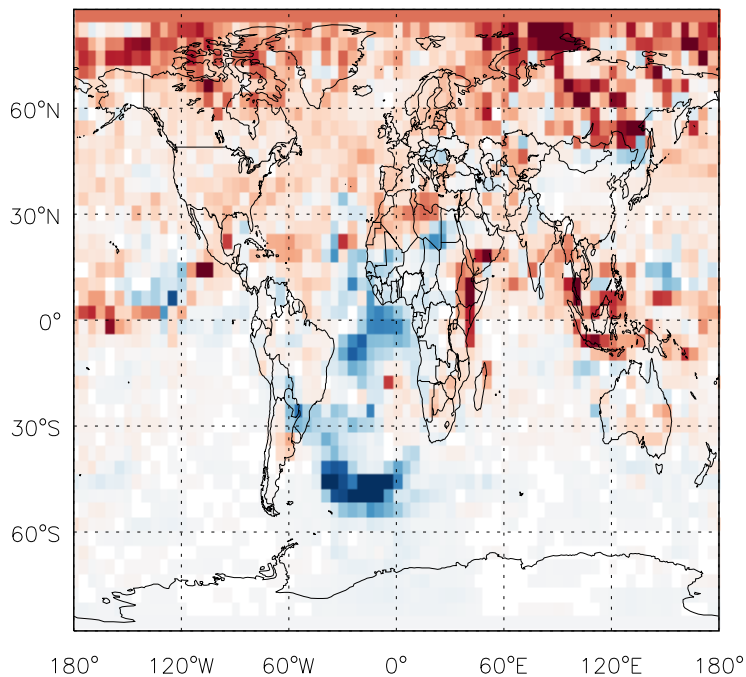


# GEOS-Chem Ratio Maps at surface and 500 hPa

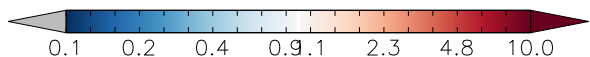
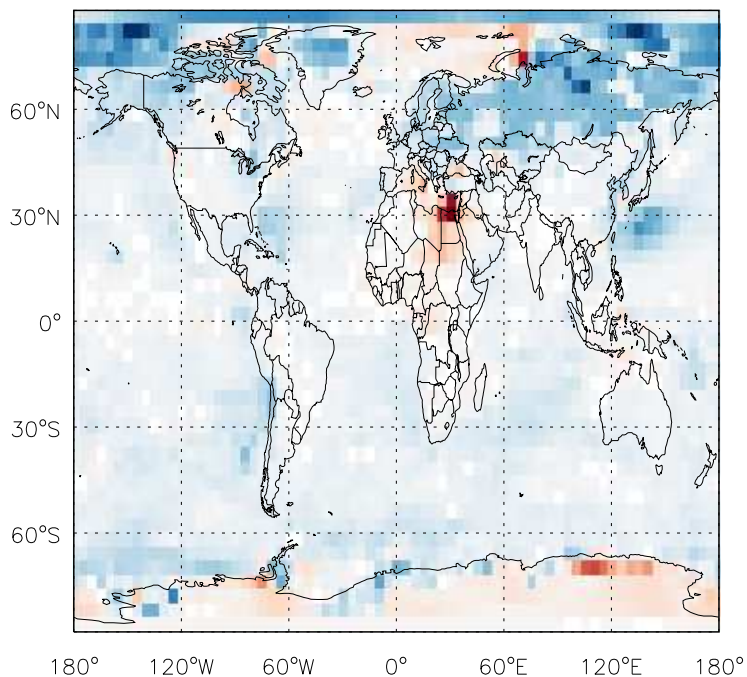
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NH<sub>3</sub> / Ratio @ Surface for Jan



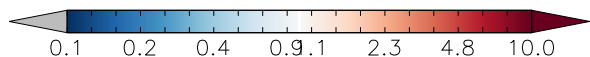
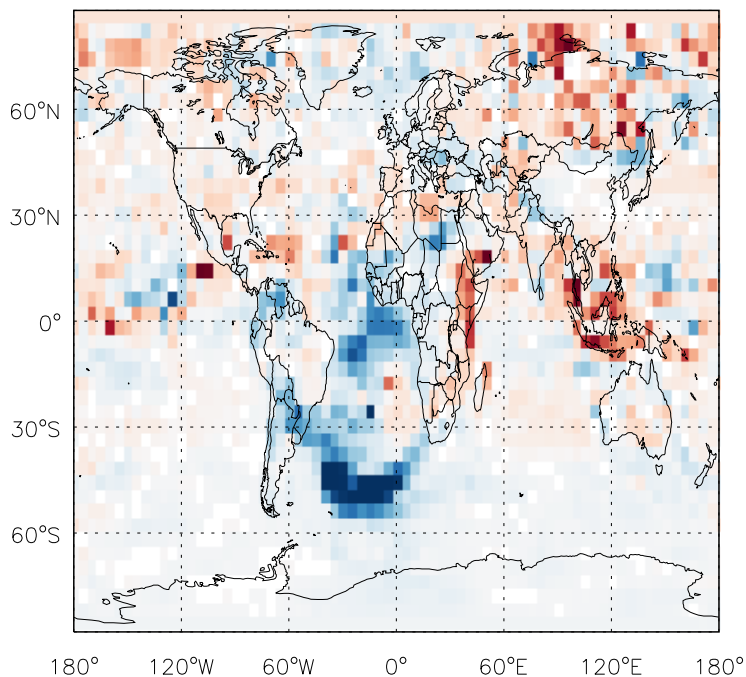
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NH<sub>3</sub> / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NH<sub>3</sub> / Ratio @ Surface for Jan

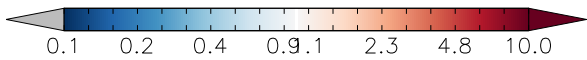
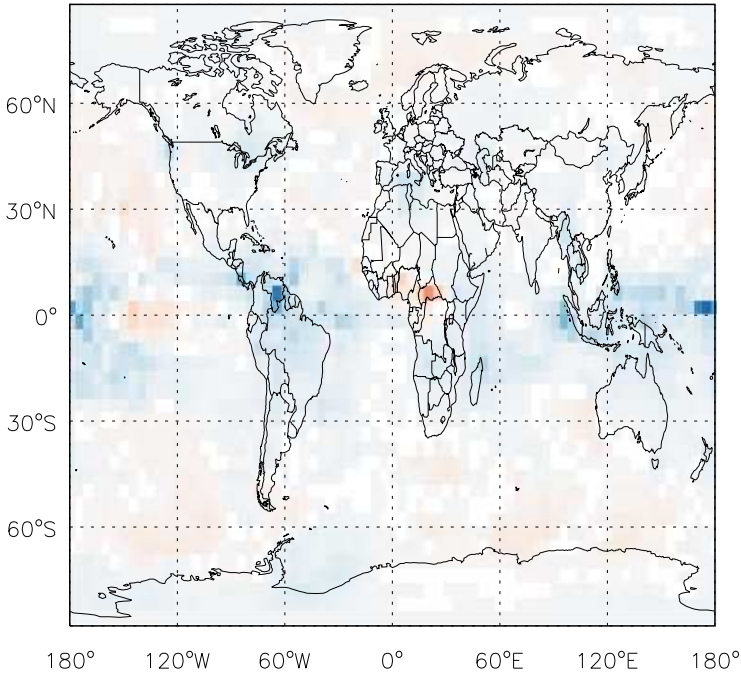


v11-01f-merra2-Run0 / v11-01d-Run1  
NH<sub>3</sub> / Ratio @ 500 hPa for Jan

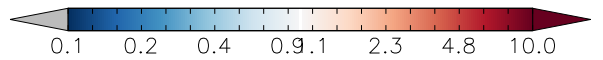
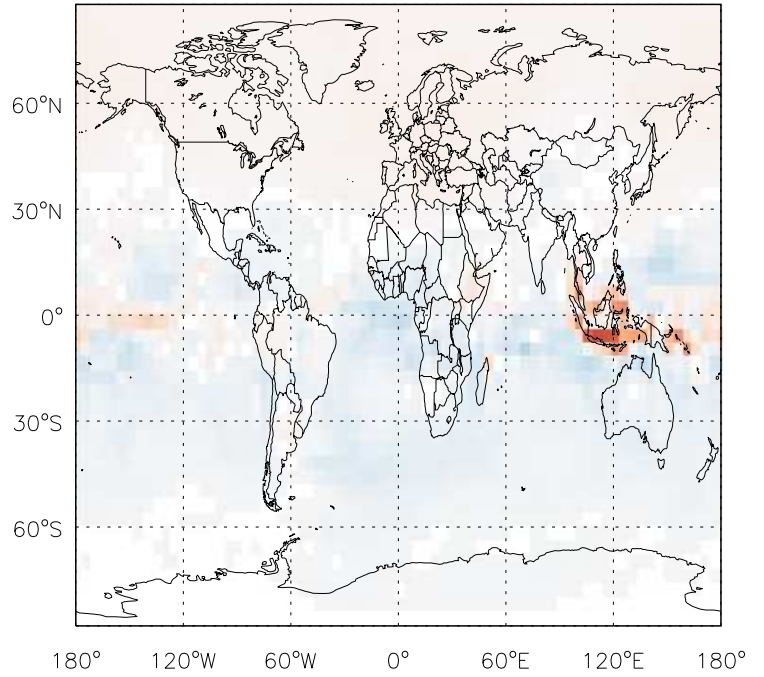


GEOS-Chem Ratio Maps at surface and 500 hPa

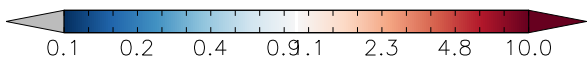
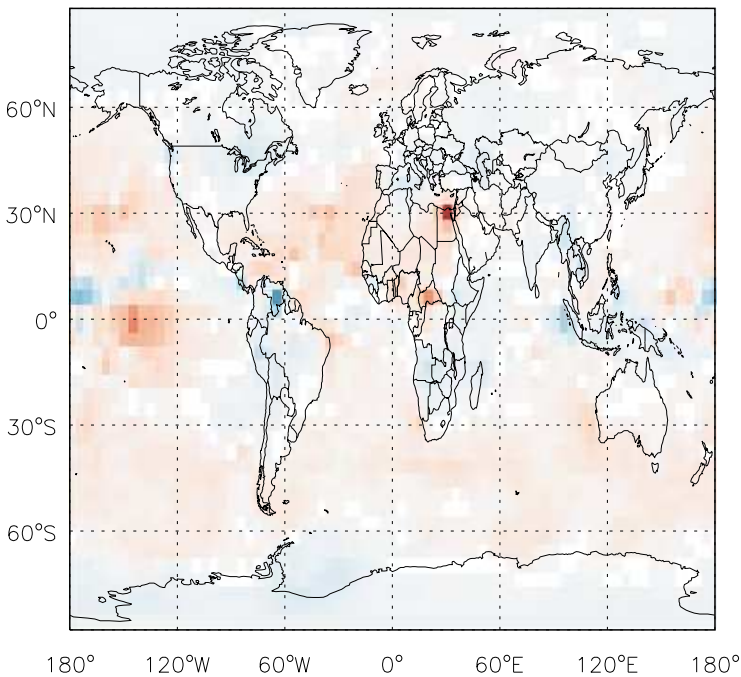
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NH4 / Ratio @ Surface for Jan



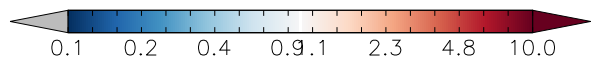
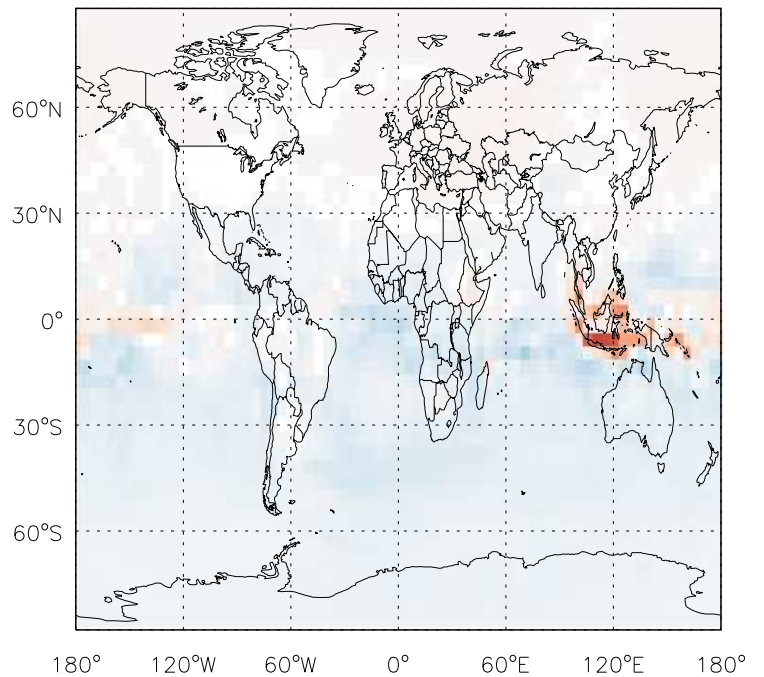
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NH4/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NH4 / Ratio @ Surface for Jan

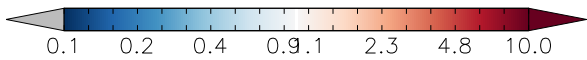
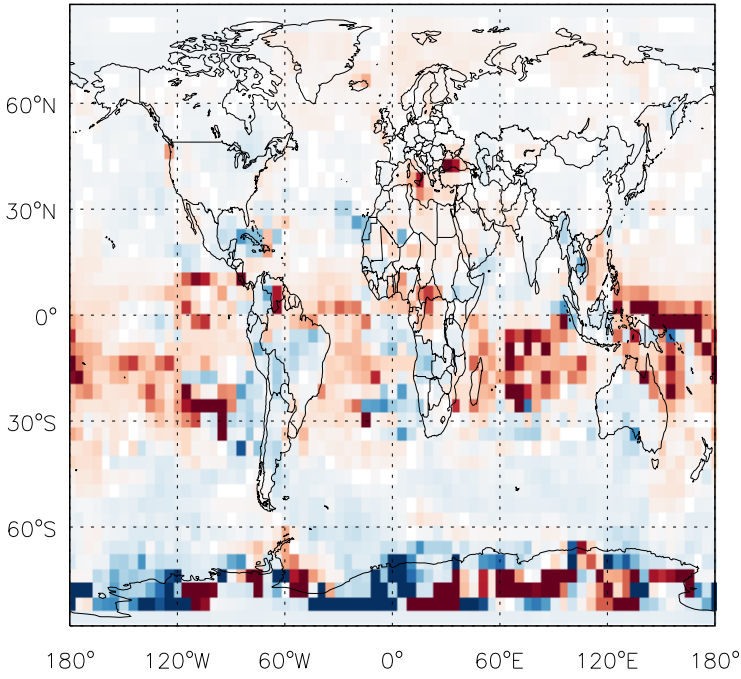


v11-01f-merra2-Run0 / v11-01d-Run1  
NH4/ Ratio @ 500 hPa for Jan

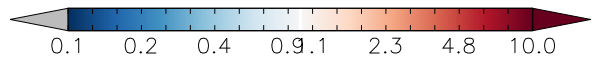
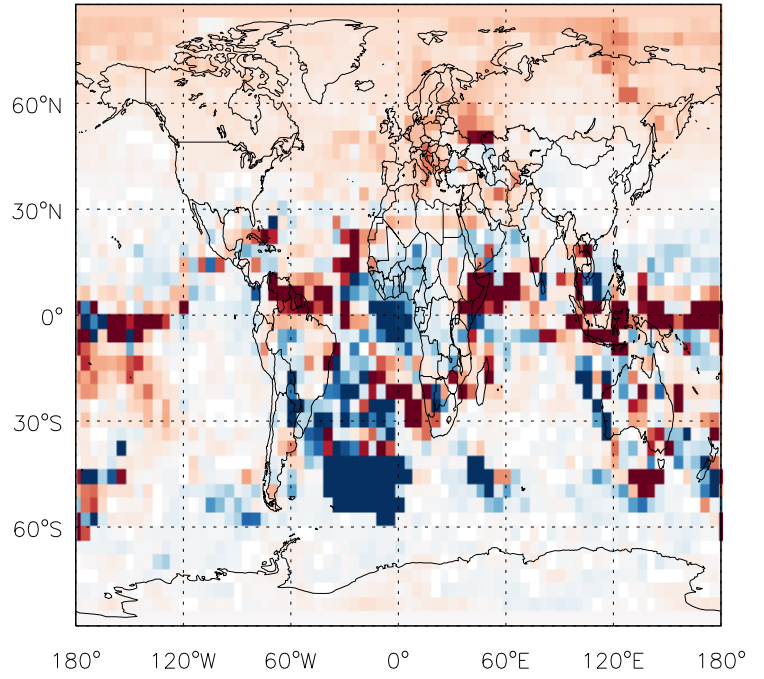


GEOS-Chem Ratio Maps at surface and 500 hPa

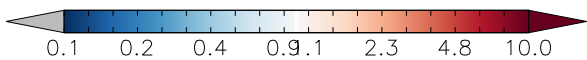
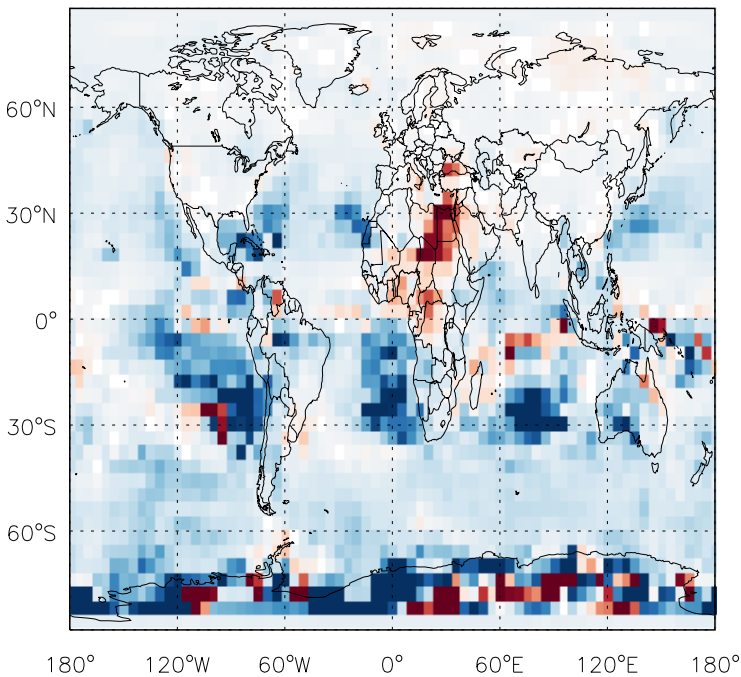
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NIT / Ratio @ Surface for Jan



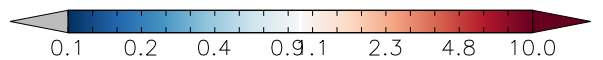
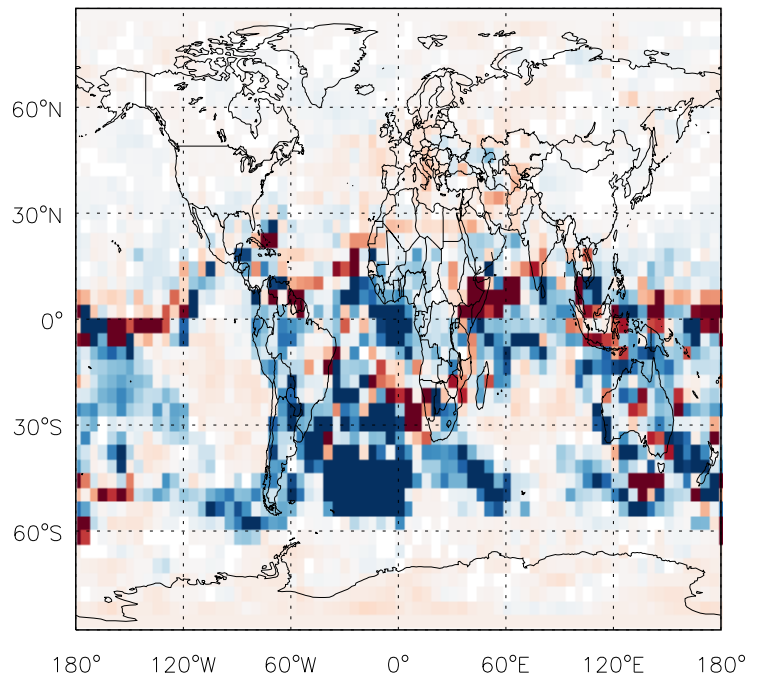
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NIT/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NIT / Ratio @ Surface for Jan



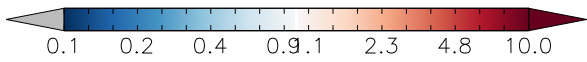
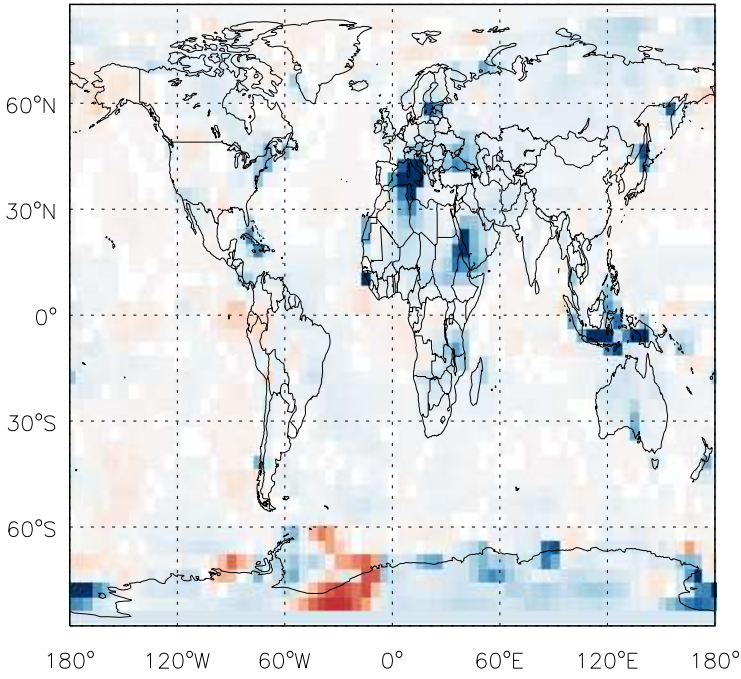
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NIT/ Ratio @ 500 hPa for Jan



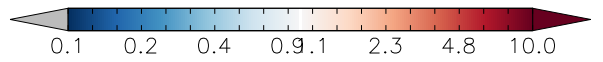
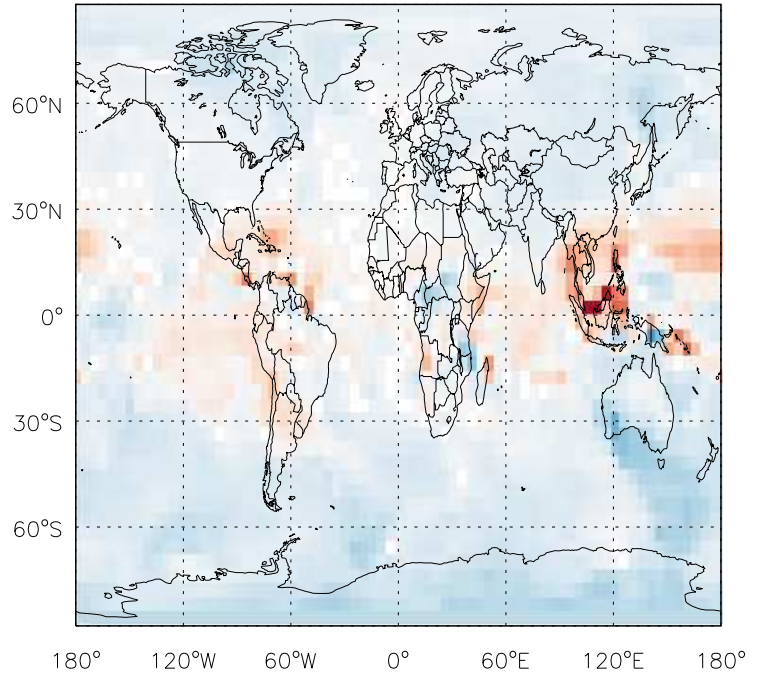


# GEOS-Chem Ratio Maps at surface and 500 hPa

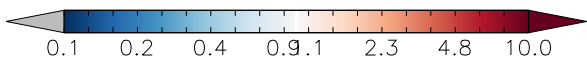
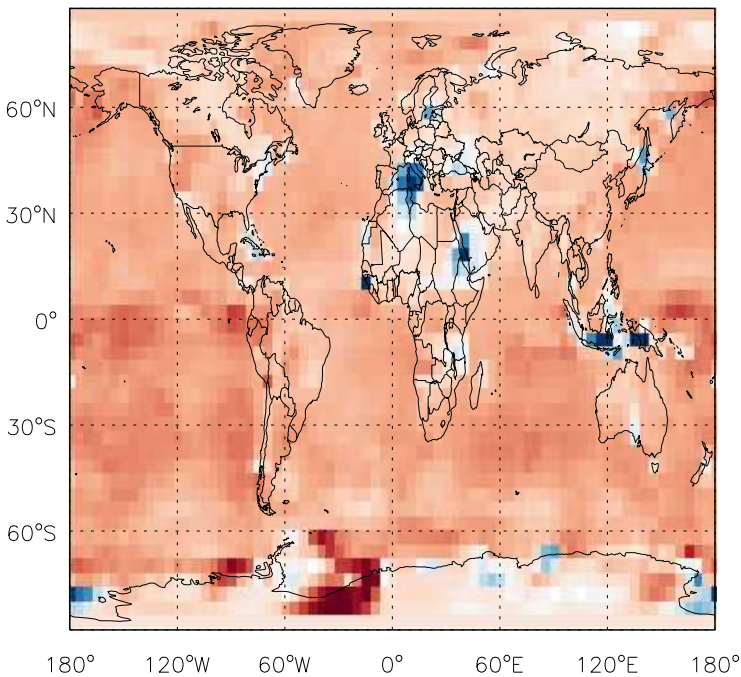
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NITs / Ratio @ Surface for Jan



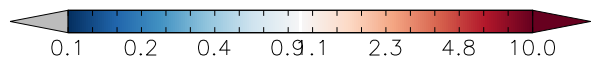
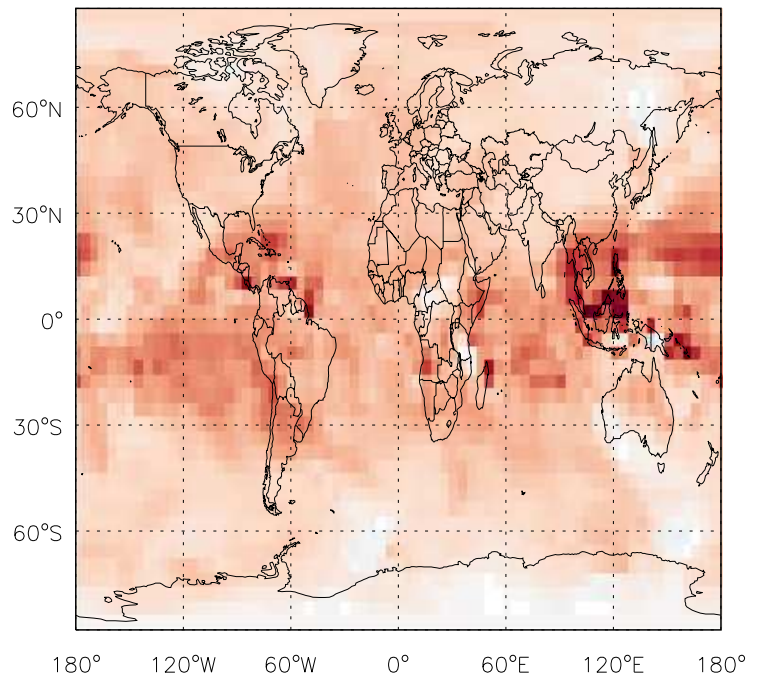
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NITs/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NITs / Ratio @ Surface for Jan

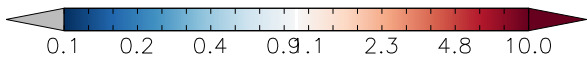
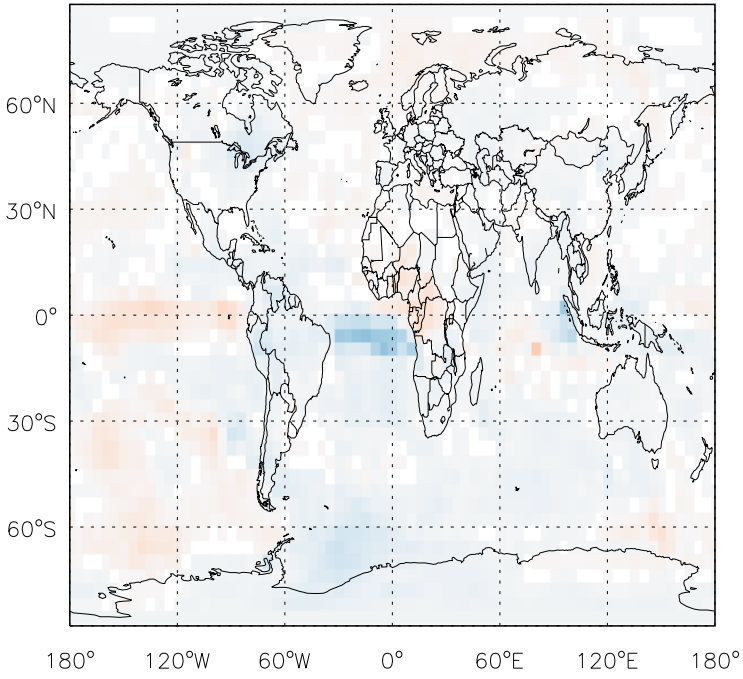


v11-01f-merra2-Run0 / v11-01d-Run1  
NITs/ Ratio @ 500 hPa for Jan

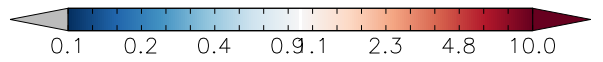
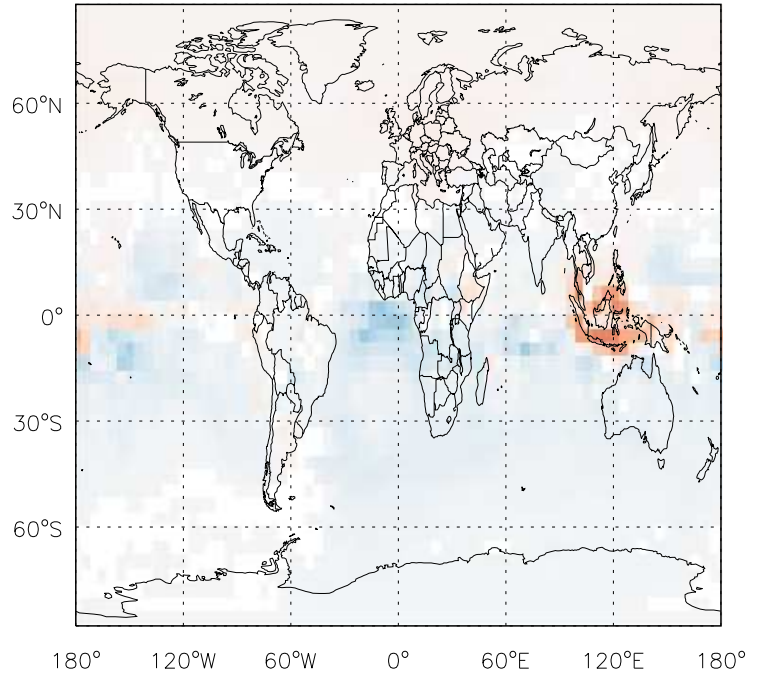


# GEOS-Chem Ratio Maps at surface and 500 hPa

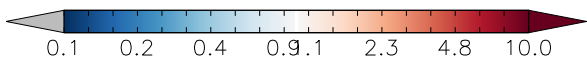
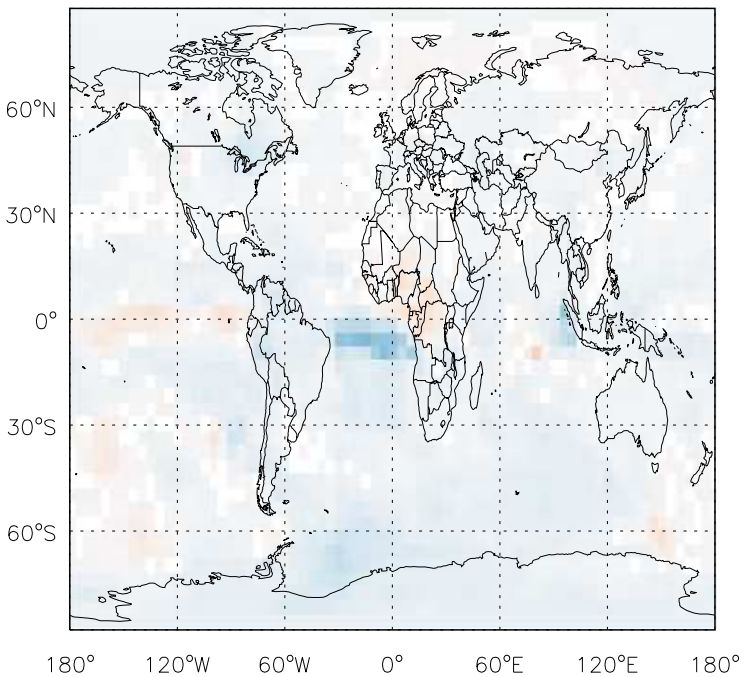
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BCPI / Ratio @ Surface for Jan



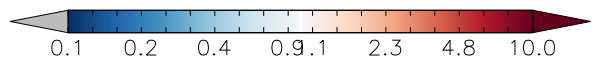
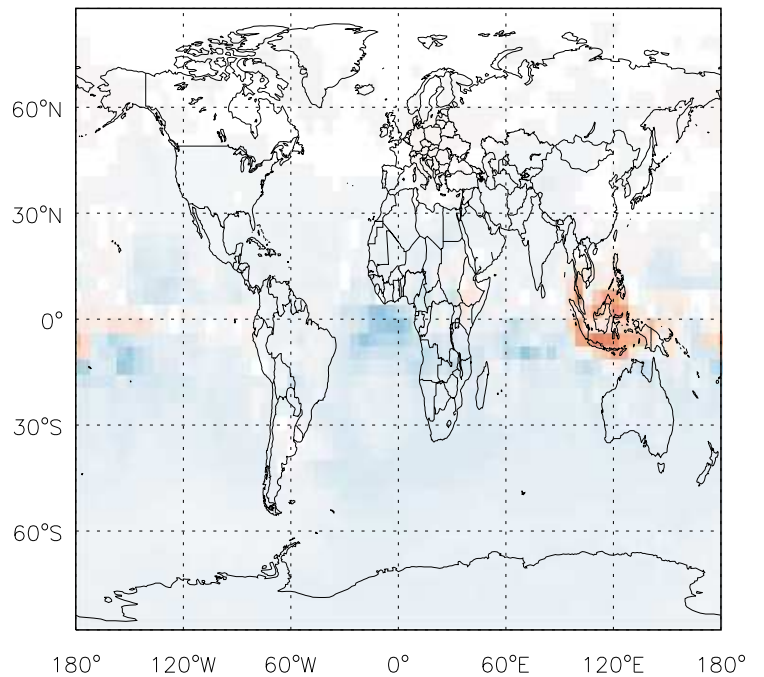
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BCPI/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BCPI / Ratio @ Surface for Jan

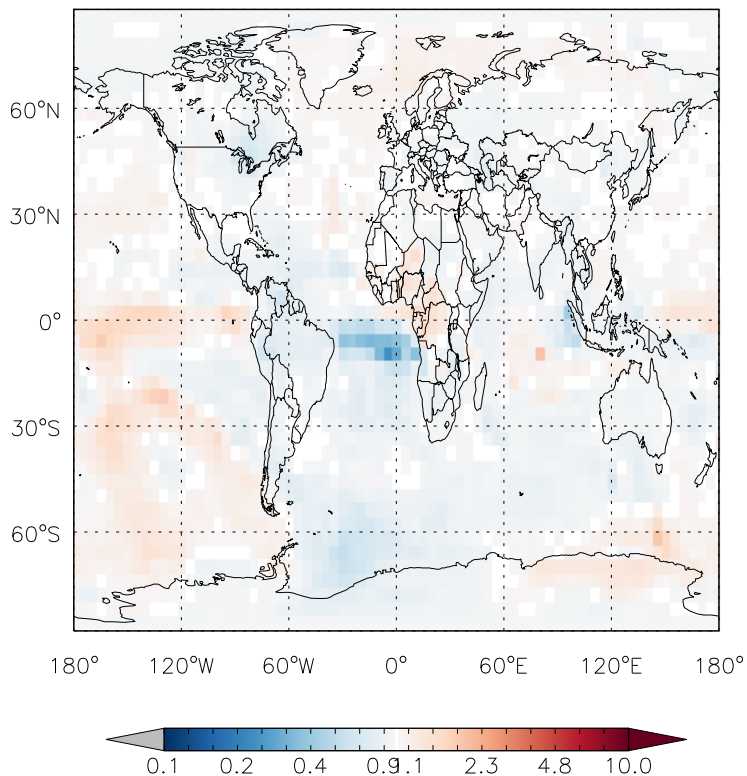


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BCPI/ Ratio @ 500 hPa for Jan

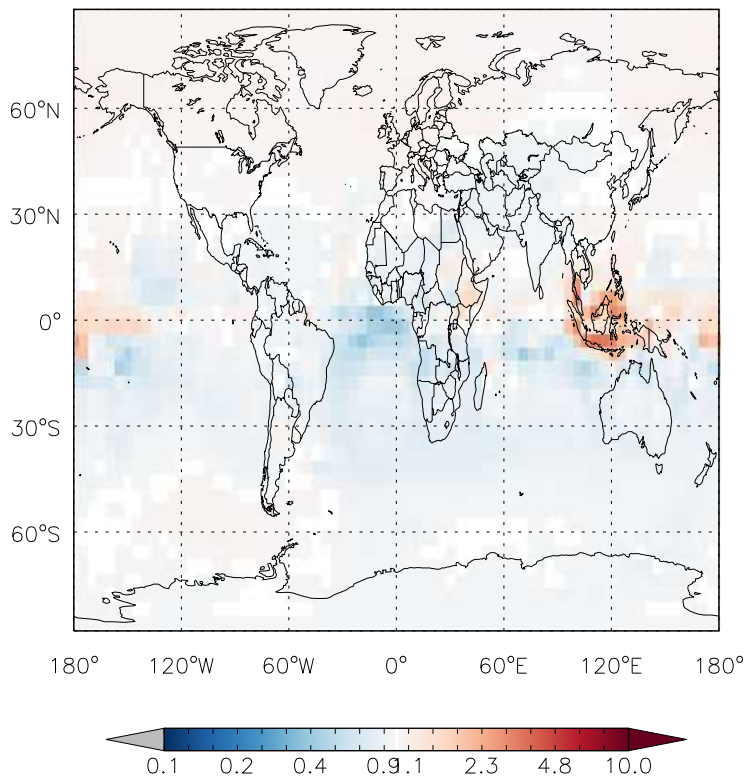


# GEOS-Chem Ratio Maps at surface and 500 hPa

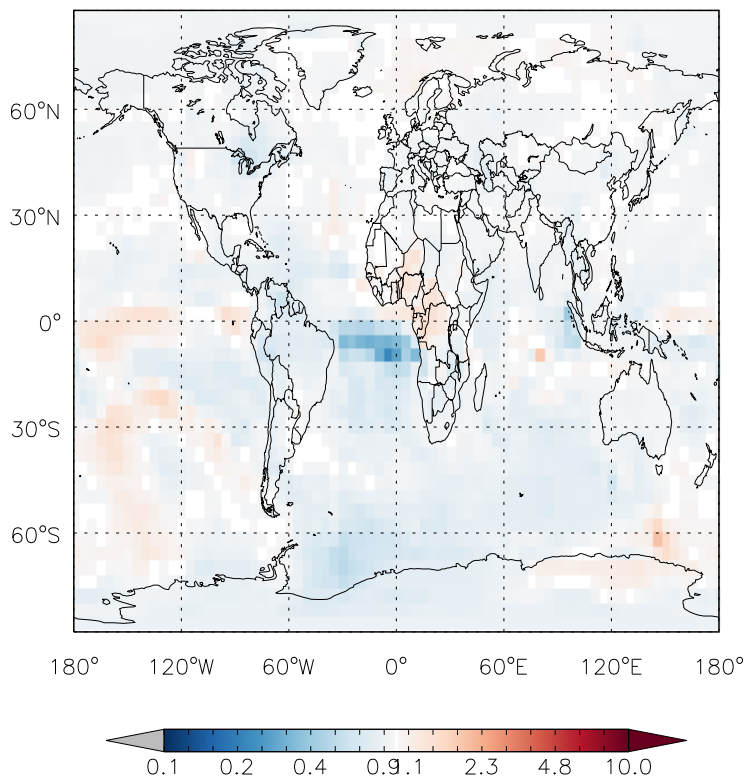
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OCPI / Ratio @ Surface for Jan



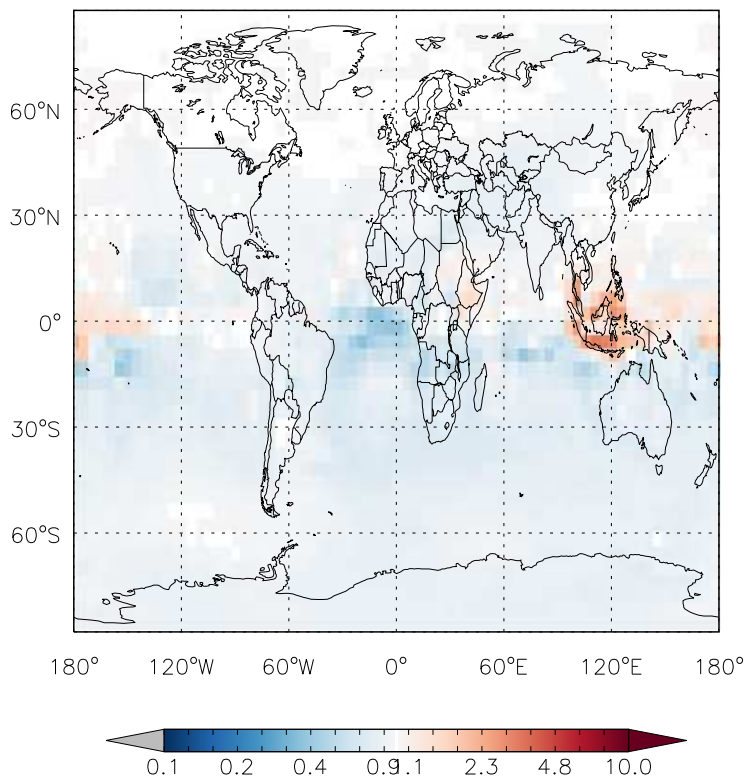
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCPI/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
OCPI / Ratio @ Surface for Jan

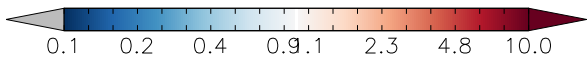
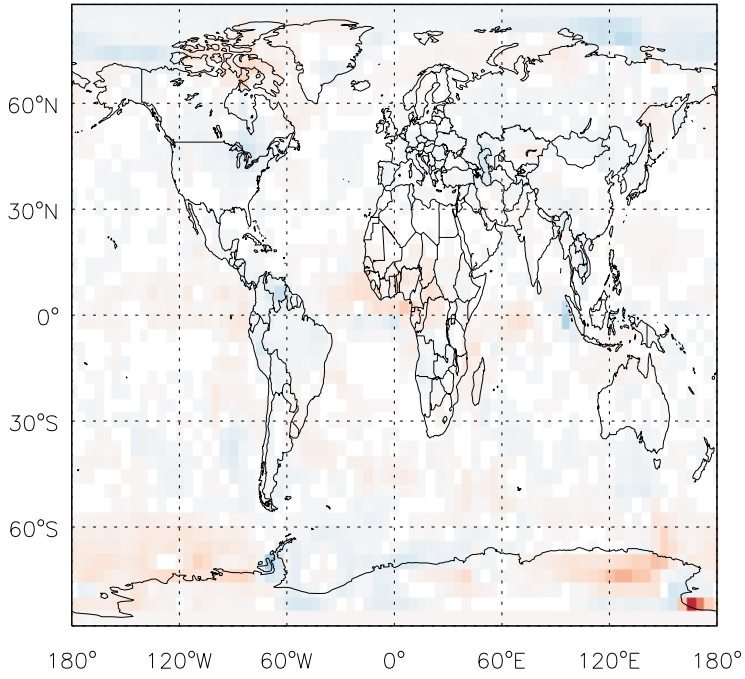


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OCPI/ Ratio @ 500 hPa for Jan

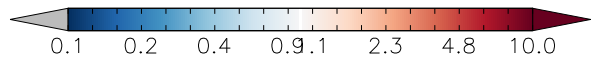
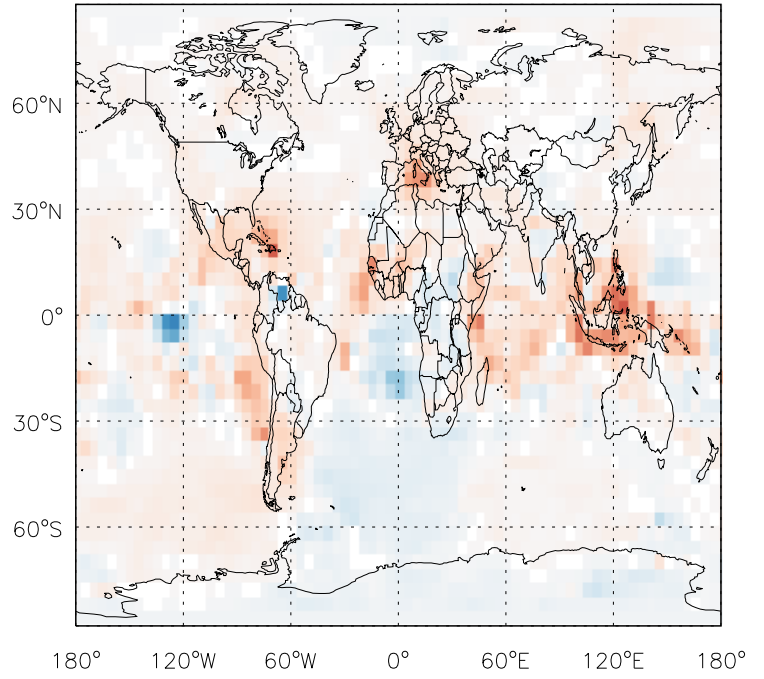


# GEOS-Chem Ratio Maps at surface and 500 hPa

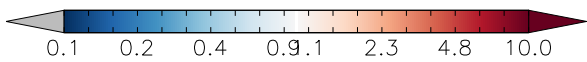
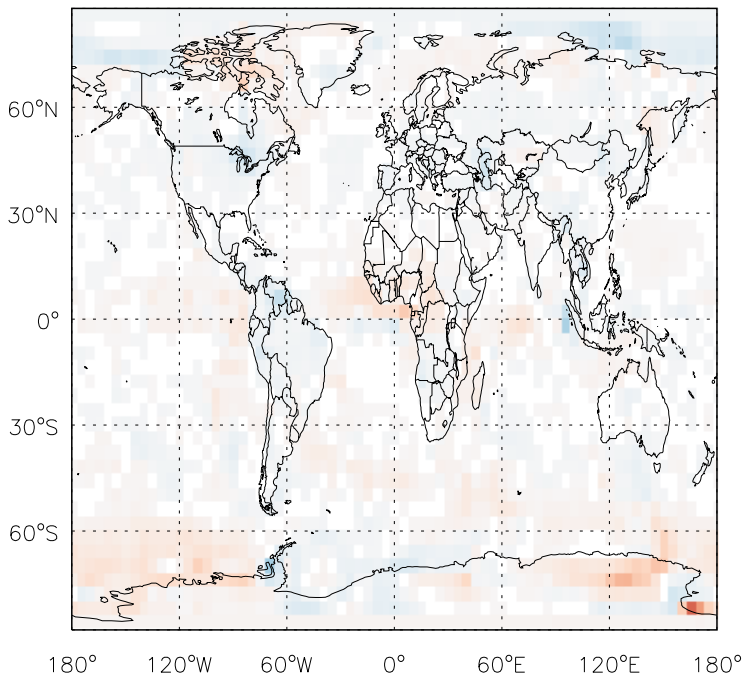
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BCPO / Ratio @ Surface for Jan



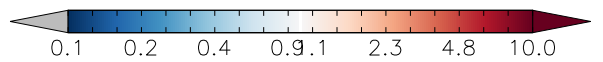
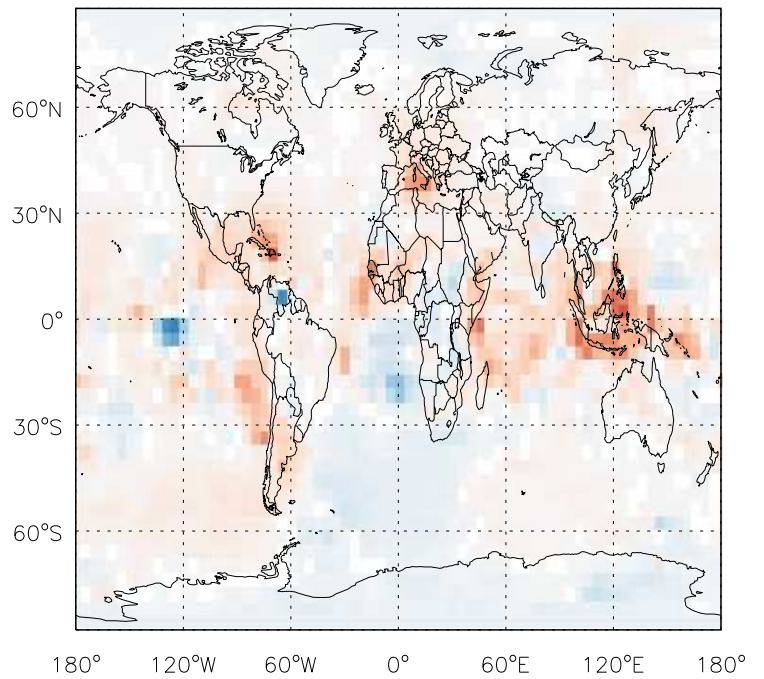
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BCPO/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BCPO / Ratio @ Surface for Jan

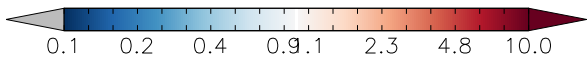
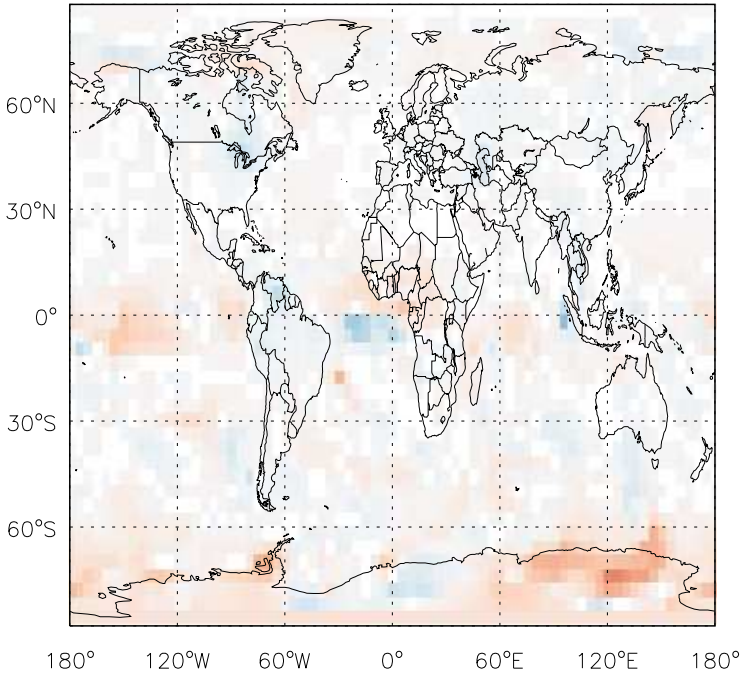


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BCPO/ Ratio @ 500 hPa for Jan

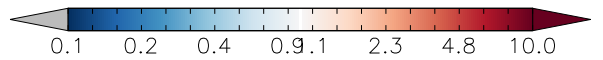
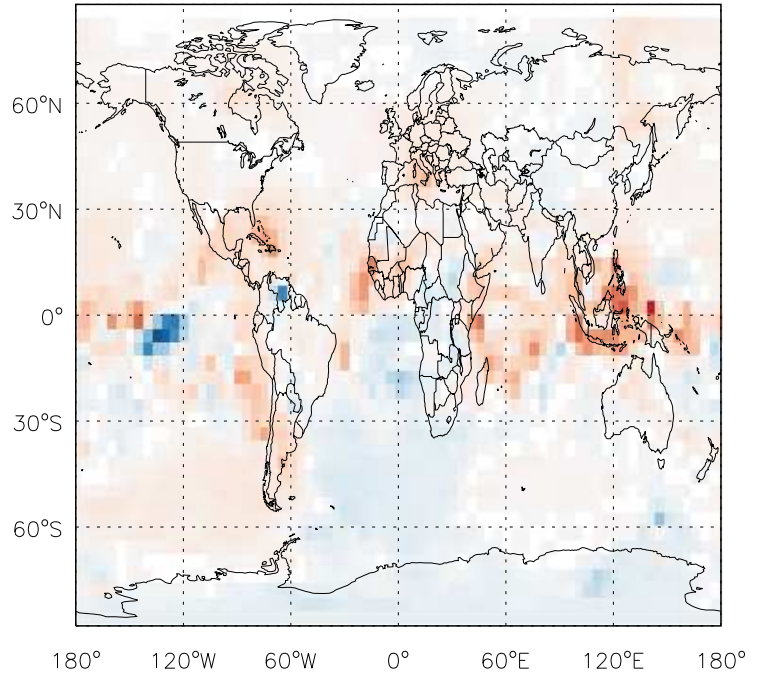


# GEOS-Chem Ratio Maps at surface and 500 hPa

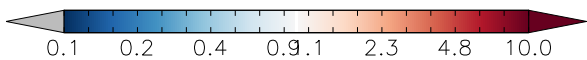
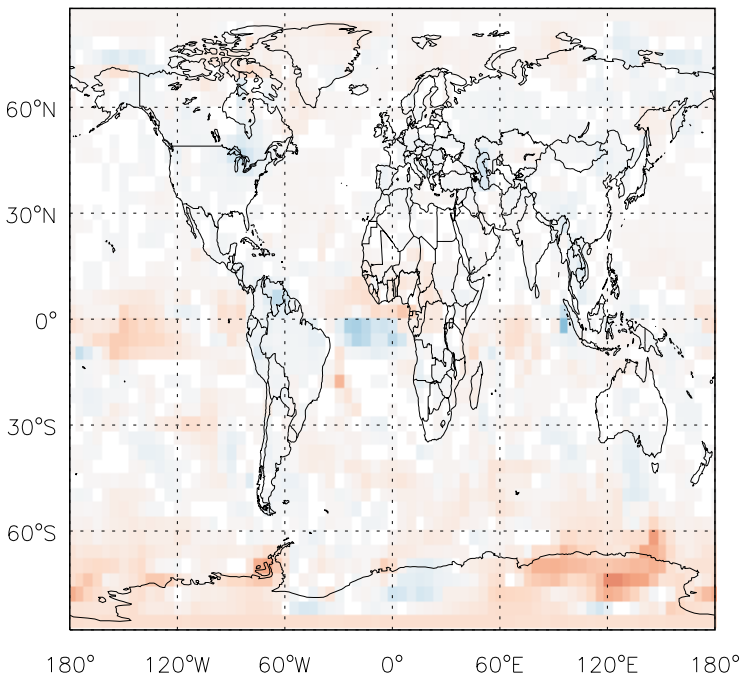
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OCPO / Ratio @ Surface for Jan



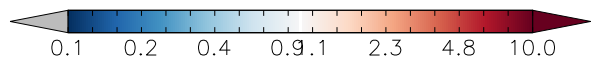
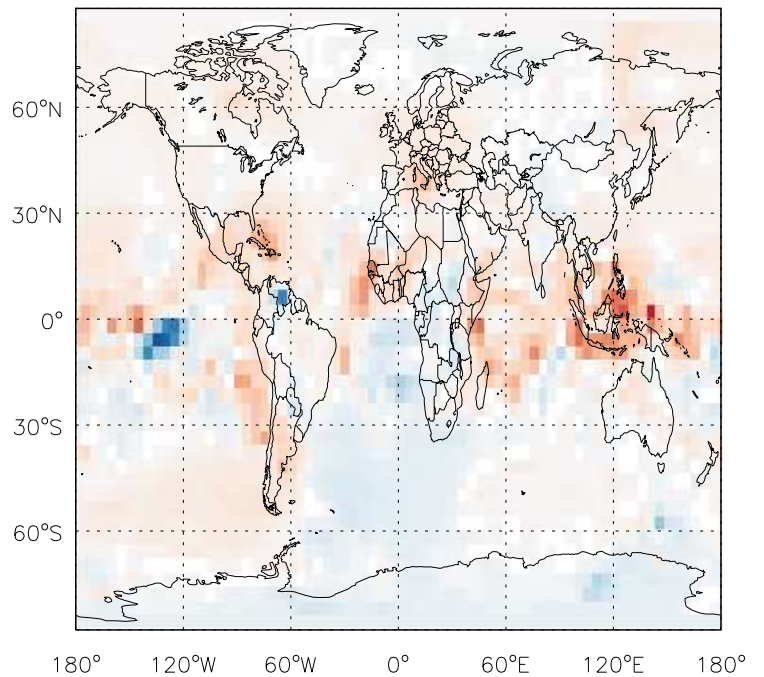
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCPO/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
OCPO / Ratio @ Surface for Jan

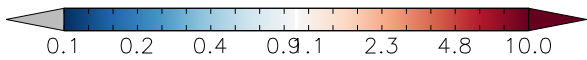
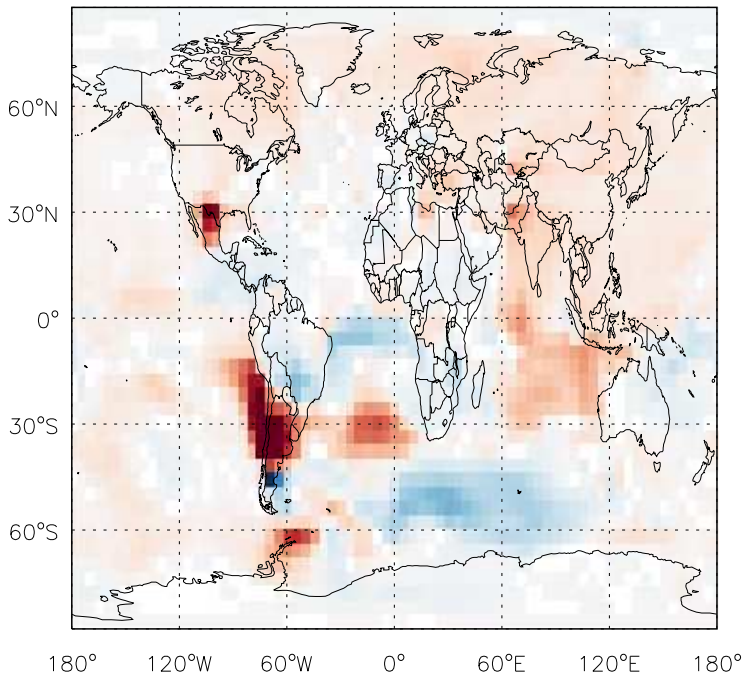


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OCPO/ Ratio @ 500 hPa for Jan

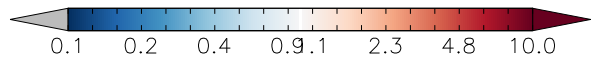
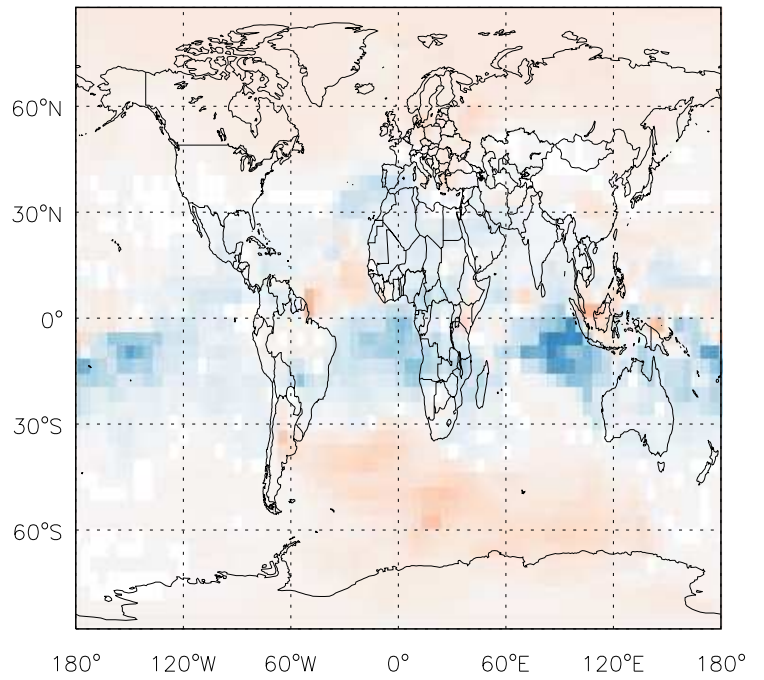


# GEOS-Chem Ratio Maps at surface and 500 hPa

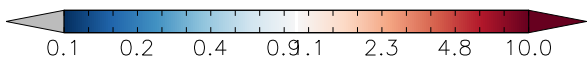
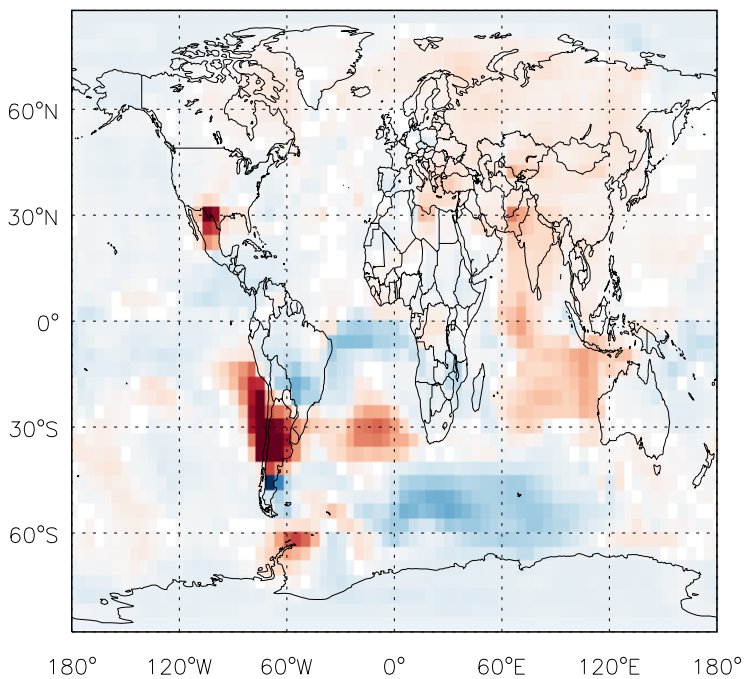
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DST1 / Ratio @ Surface for Jan



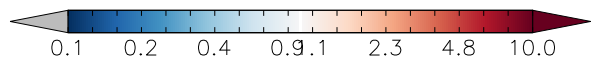
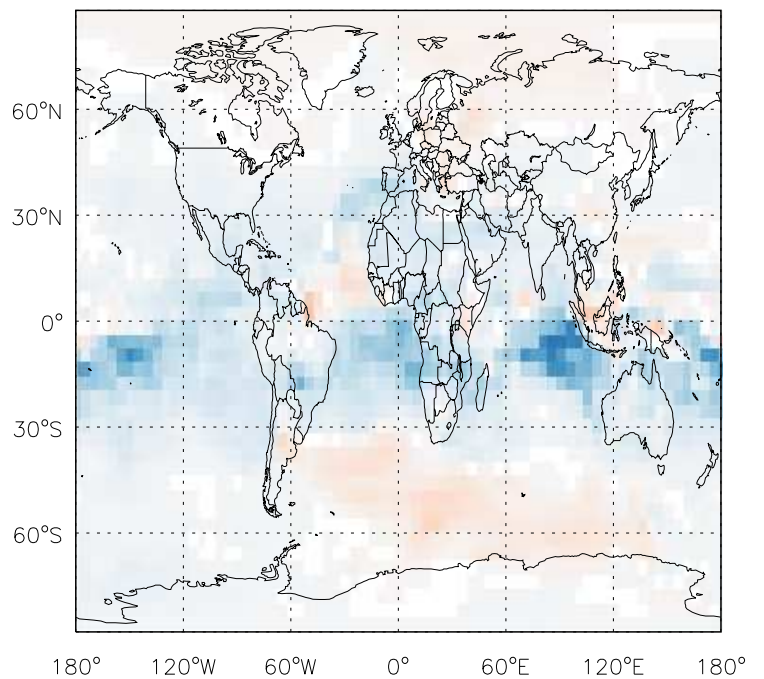
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
DST1/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
DST1 / Ratio @ Surface for Jan

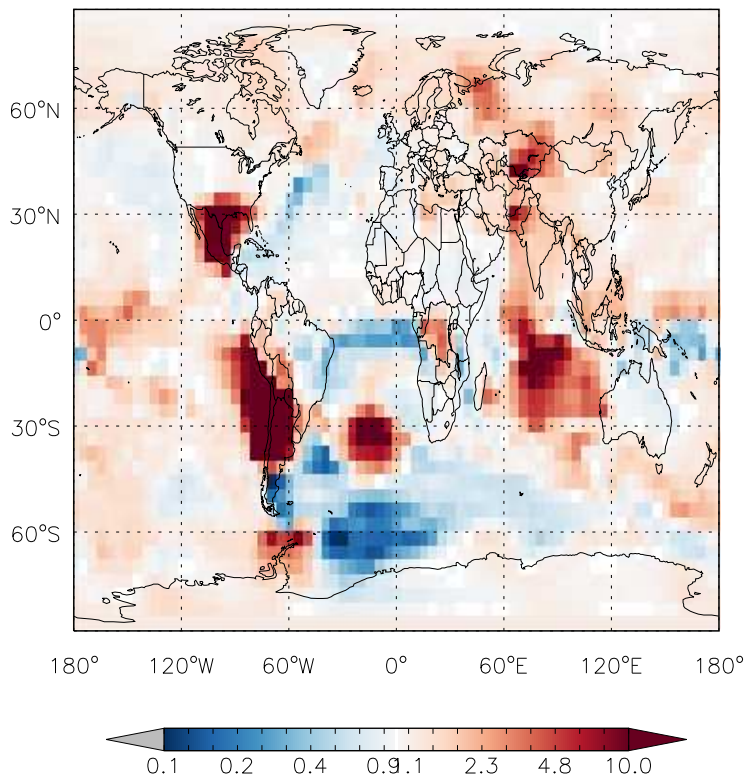


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DST1/ Ratio @ 500 hPa for Jan

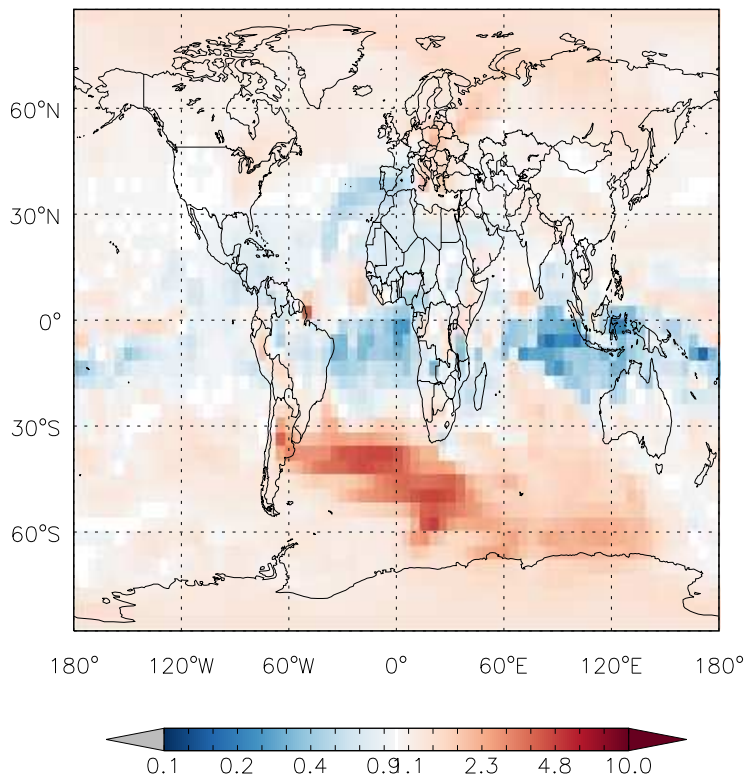


# GEOS-Chem Ratio Maps at surface and 500 hPa

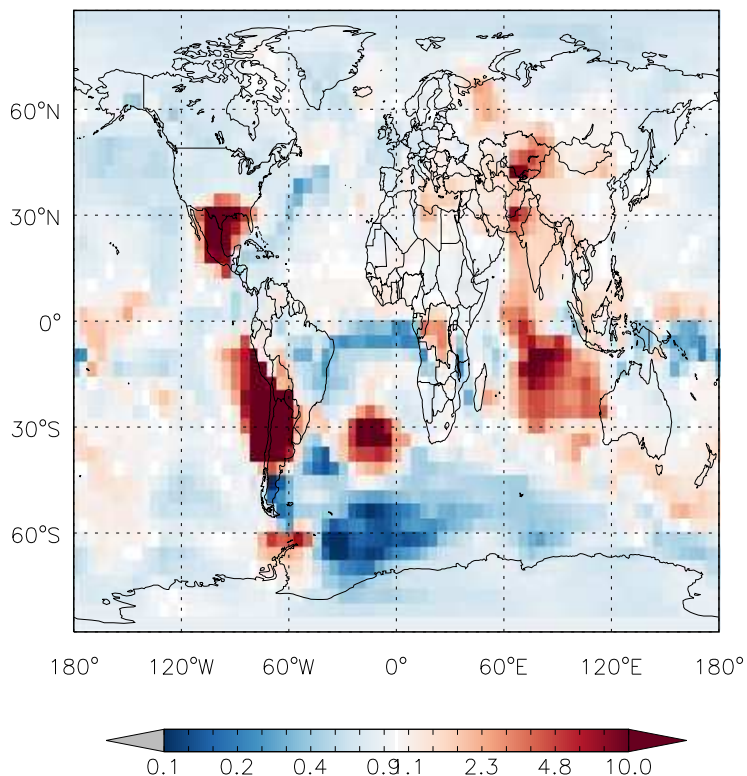
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DST2 / Ratio @ Surface for Jan



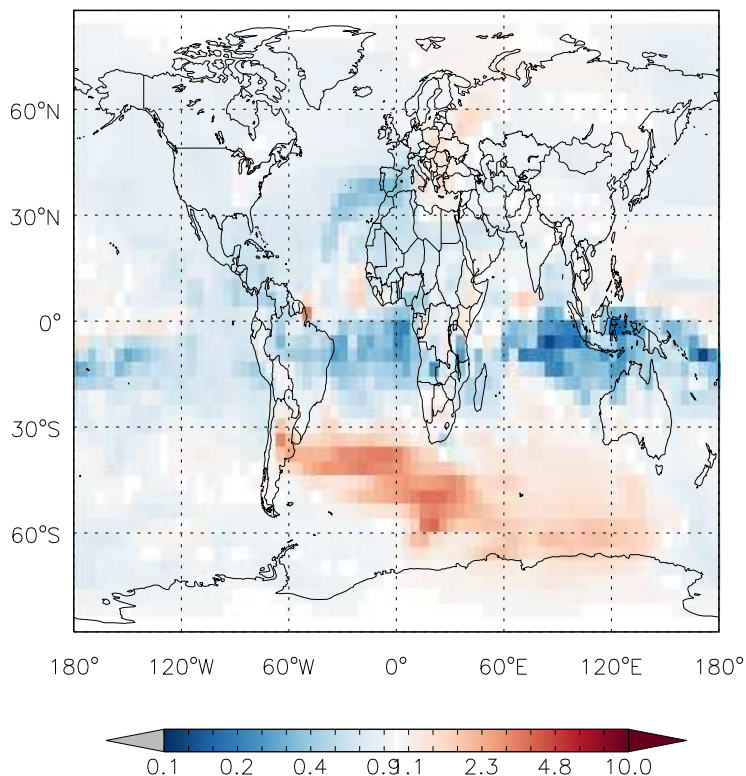
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DST2/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
DST2 / Ratio @ Surface for Jan

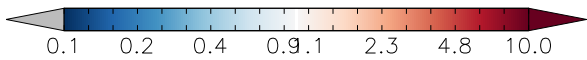
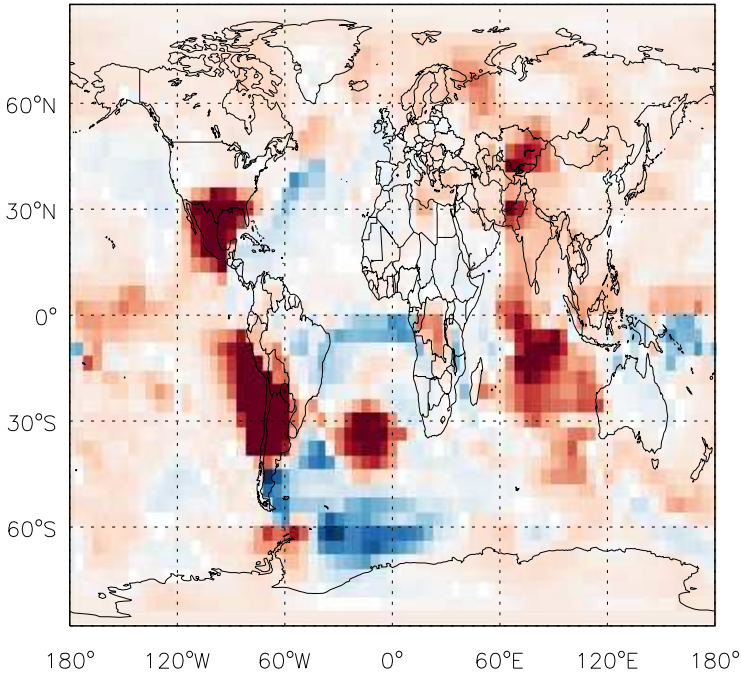


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DST2/ Ratio @ 500 hPa for Jan

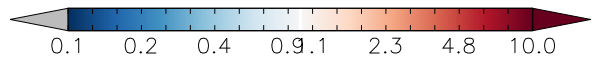
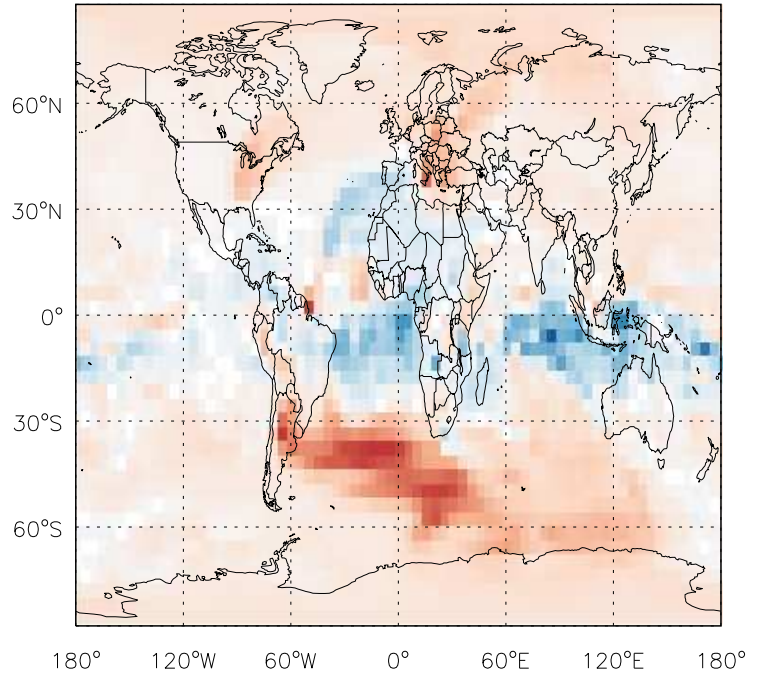


GEOS-Chem Ratio Maps at surface and 500 hPa

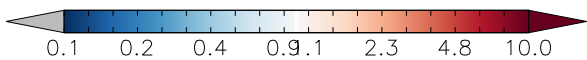
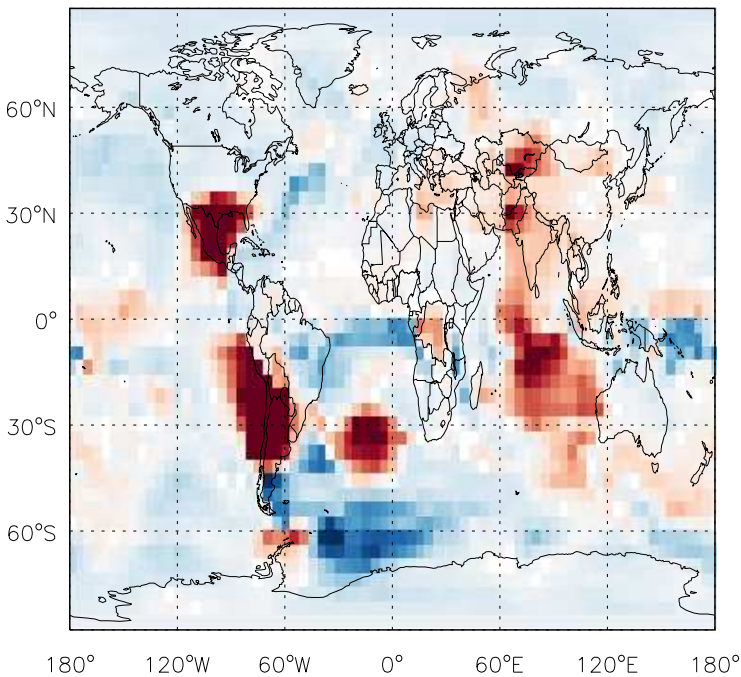
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
DST3 / Ratio @ Surface for Jan



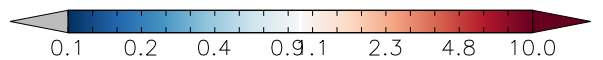
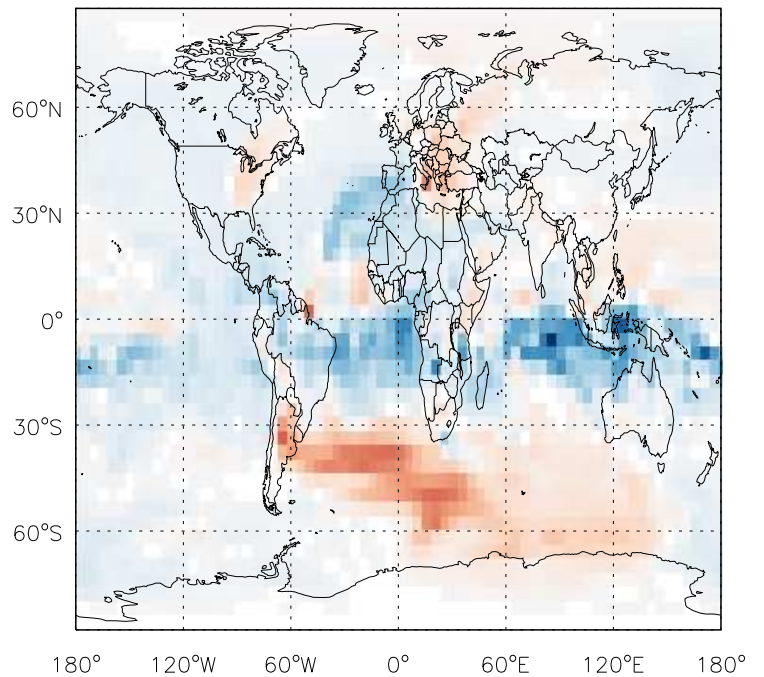
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
DST3/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
DST3 / Ratio @ Surface for Jan



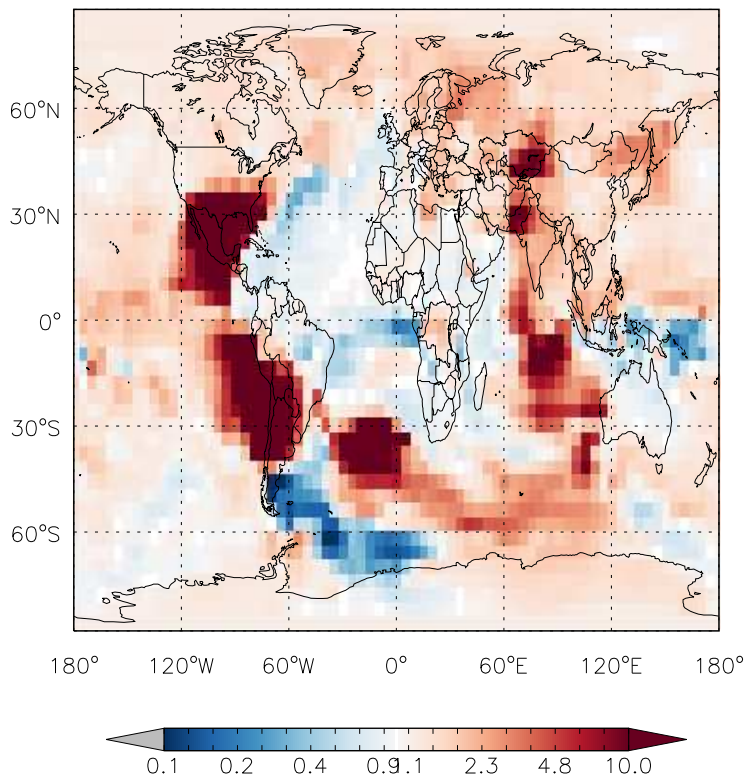
v11-01f-merra2-Run0 / v11-01d-Run1  
DST3/ Ratio @ 500 hPa for Jan



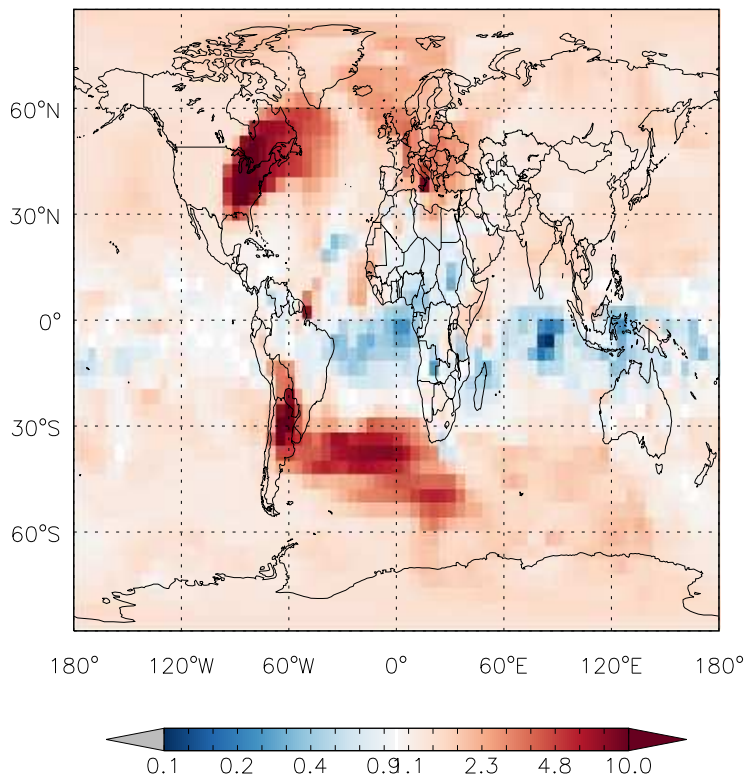


# GEOS-Chem Ratio Maps at surface and 500 hPa

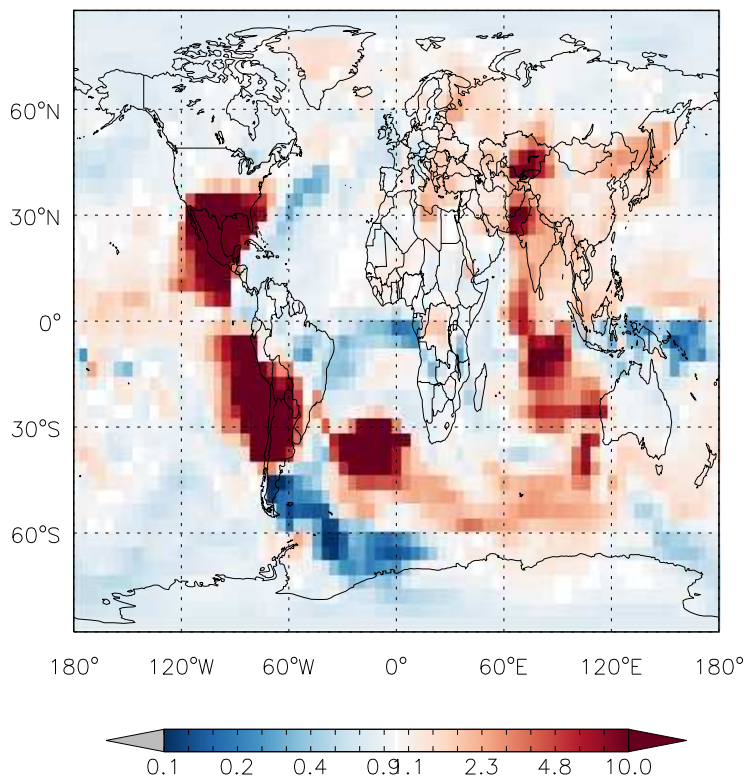
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DST4 / Ratio @ Surface for Jan



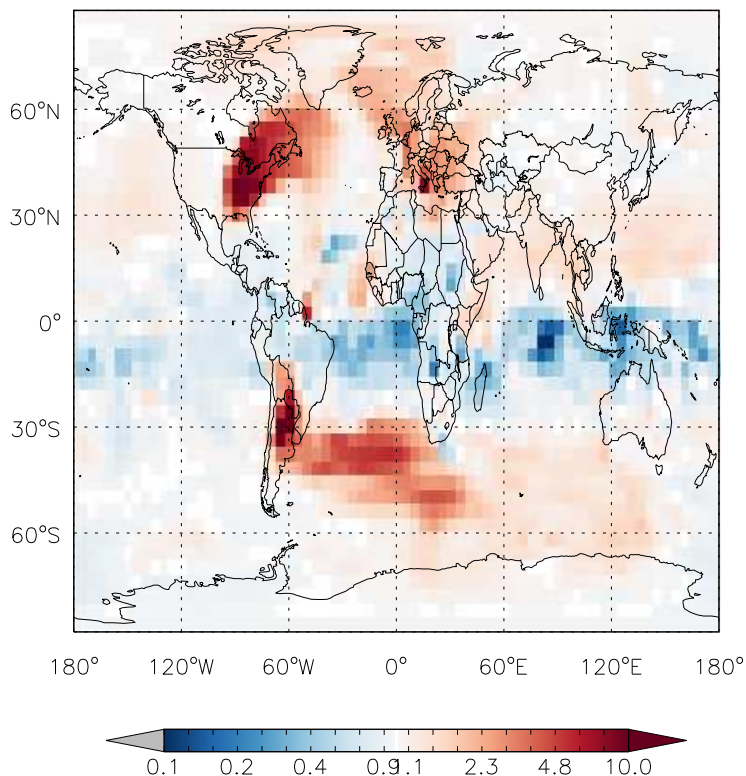
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
DST4/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
DST4 / Ratio @ Surface for Jan



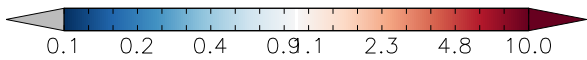
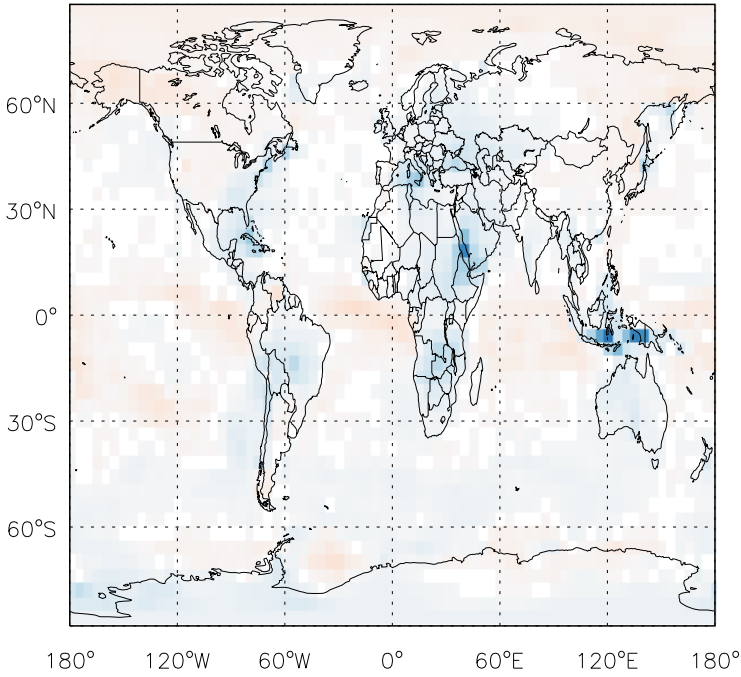
v11-01f-merra2-Run0 / v11-01d-Run1  
DST4/ Ratio @ 500 hPa for Jan



# GEOS-Chem Ratio Maps at surface and 500 hPa

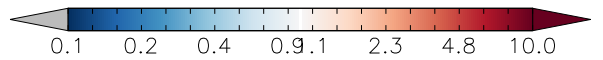
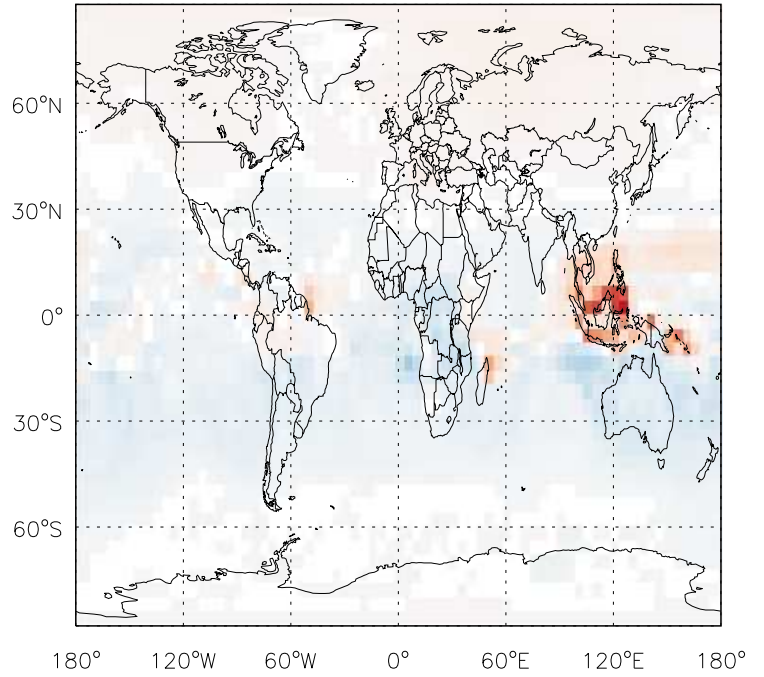
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

SALA / Ratio @ Surface for Jan



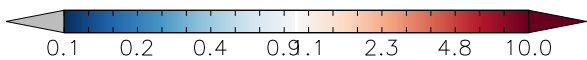
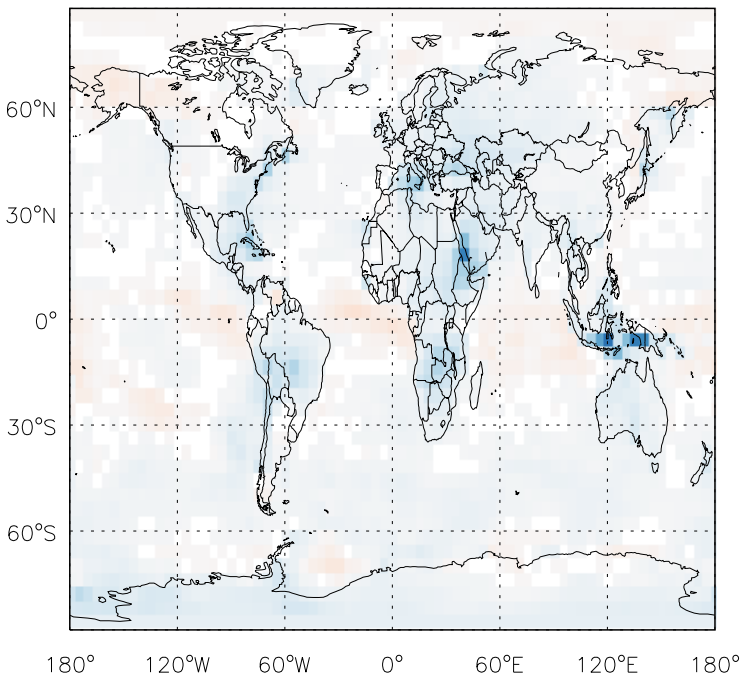
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

SALA/ Ratio @ 500 hPa for Jan



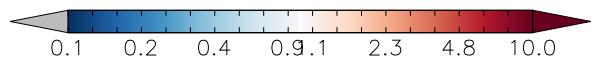
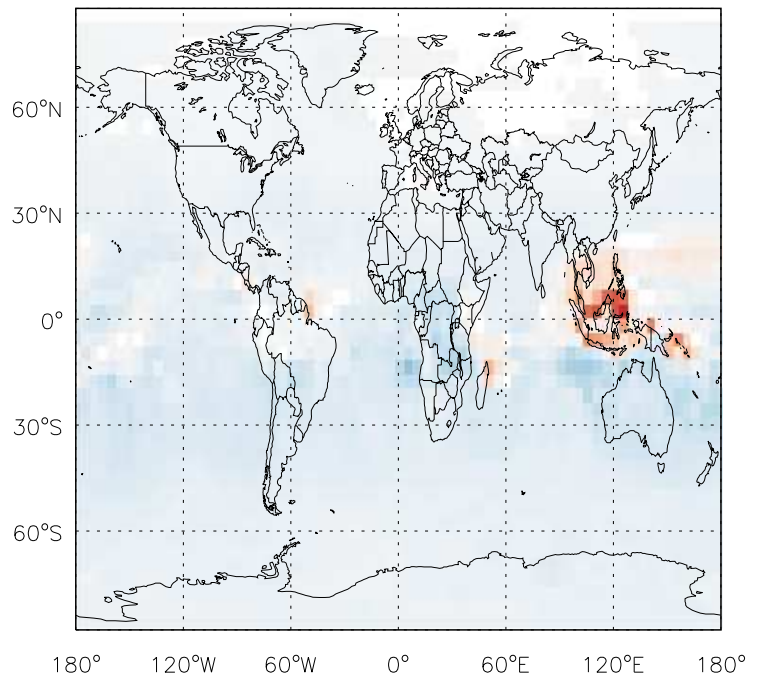
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SALA / Ratio @ Surface for Jan



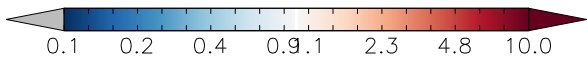
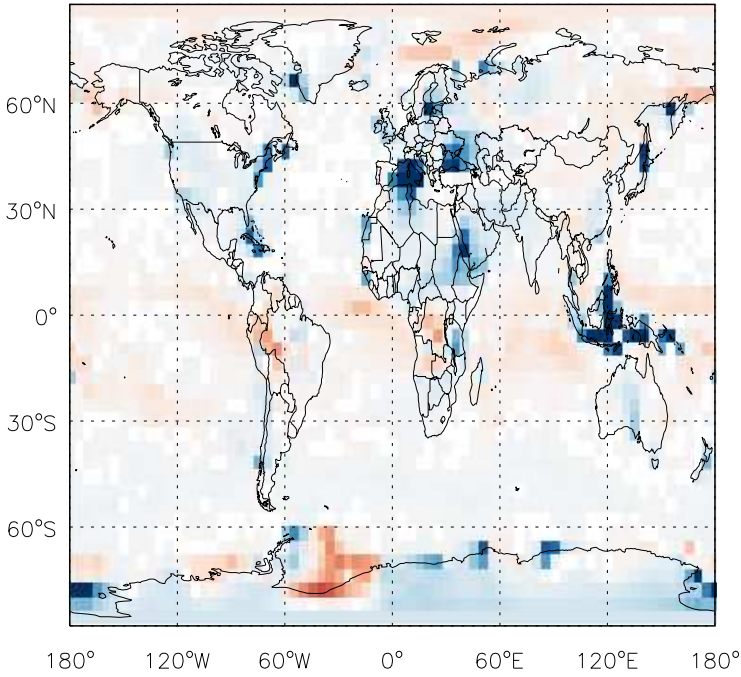
v11-01f-merra2-Run0 / v11-01d-Run1

SALA/ Ratio @ 500 hPa for Jan

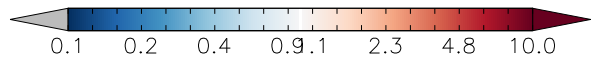
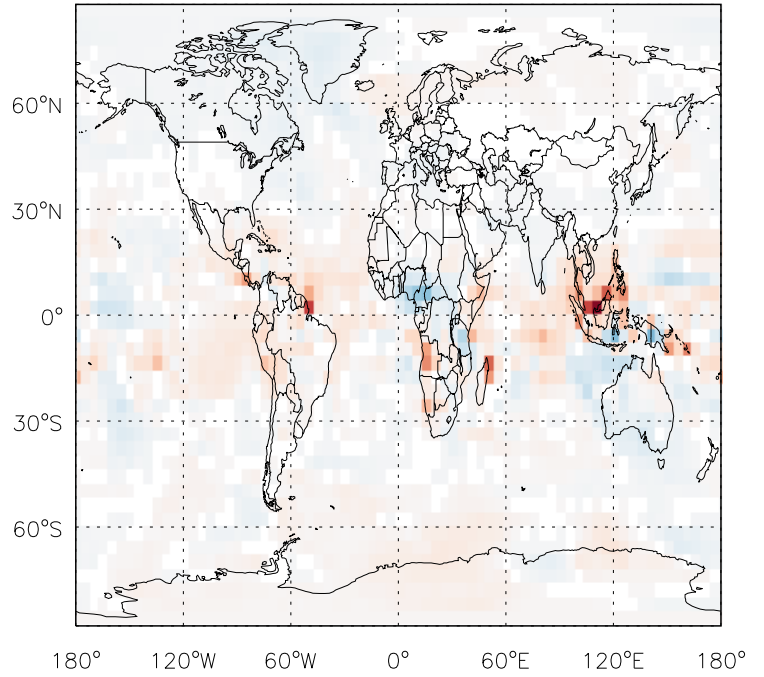


GEOS-Chem Ratio Maps at surface and 500 hPa

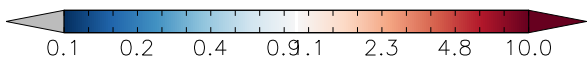
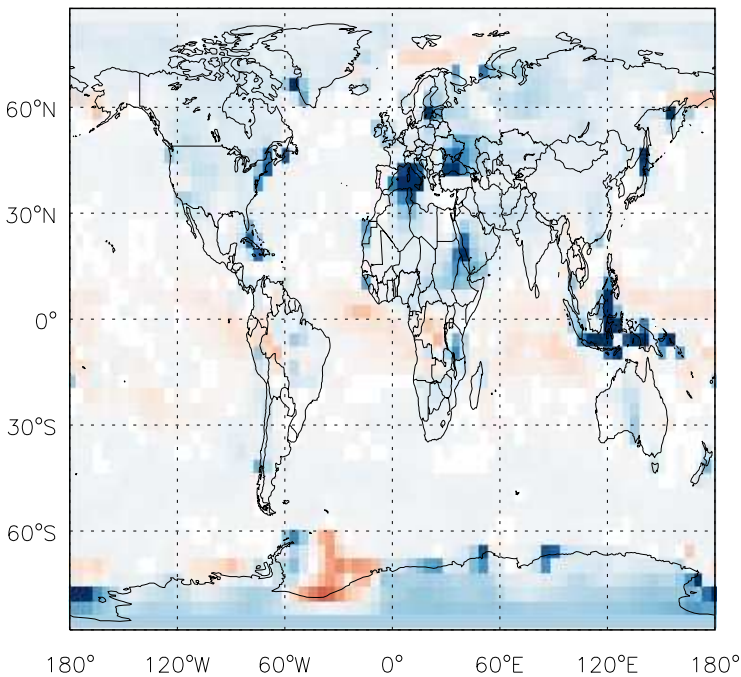
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SALC / Ratio @ Surface for Jan



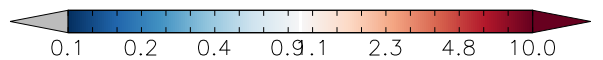
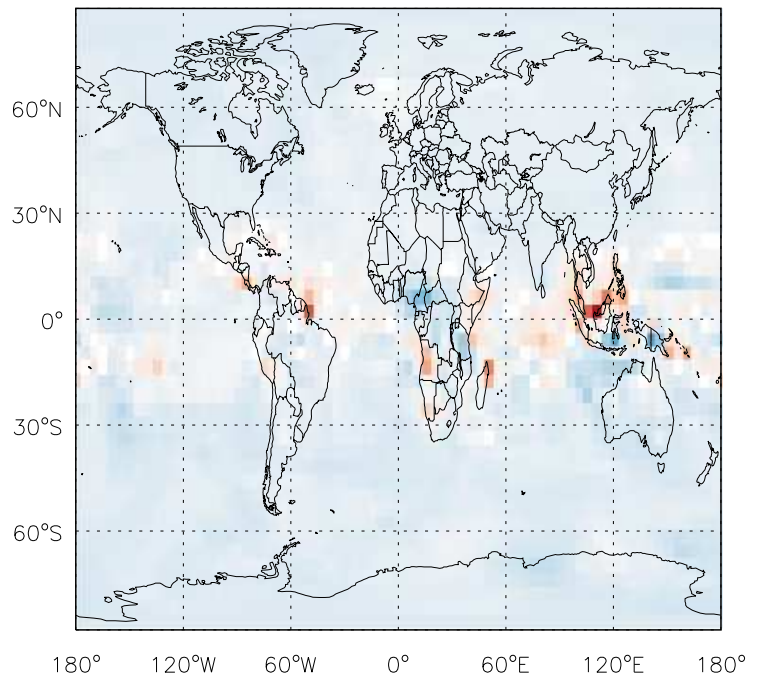
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
SALC / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
SALC / Ratio @ Surface for Jan

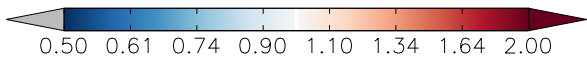
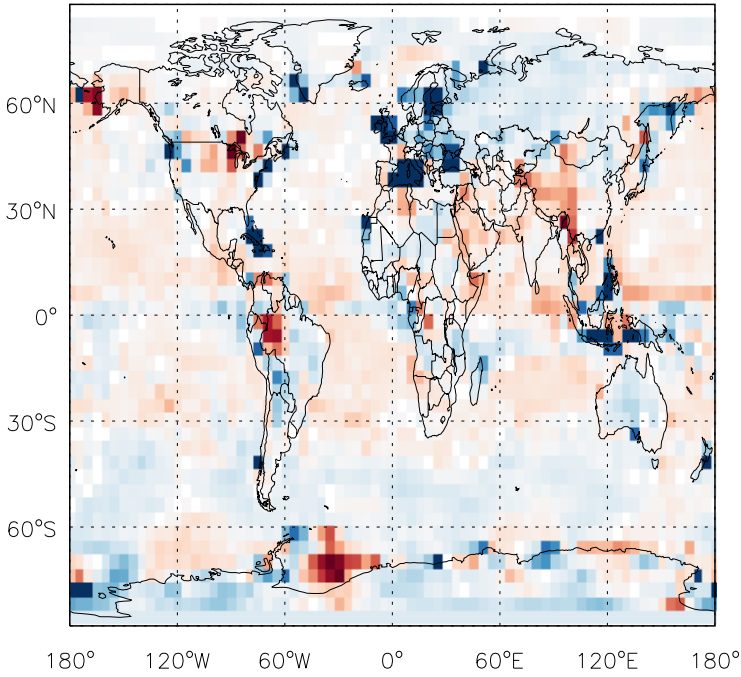


v11-01f-merra2-Run0 / v11-01d-Run1  
SALC / Ratio @ 500 hPa for Jan

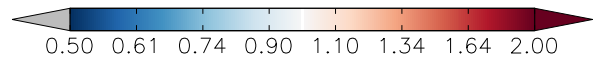
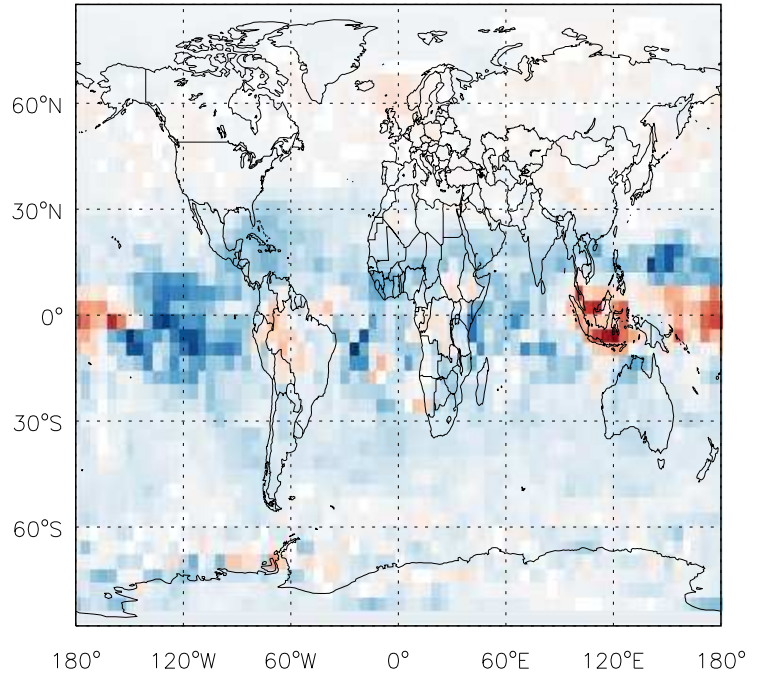


GEOS-Chem Ratio Maps at surface and 500 hPa

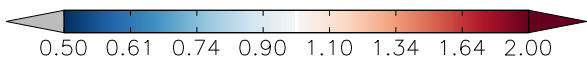
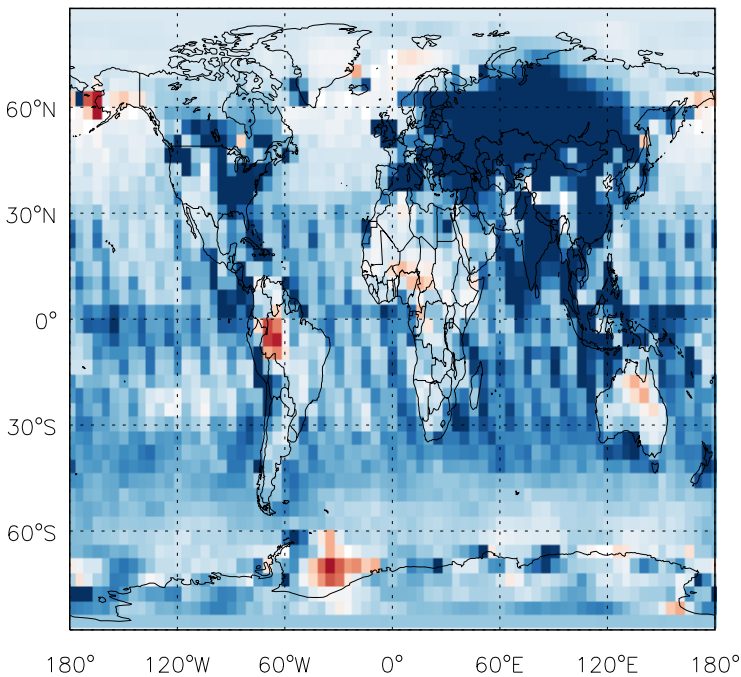
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Br2 / Ratio @ Surface for Jan



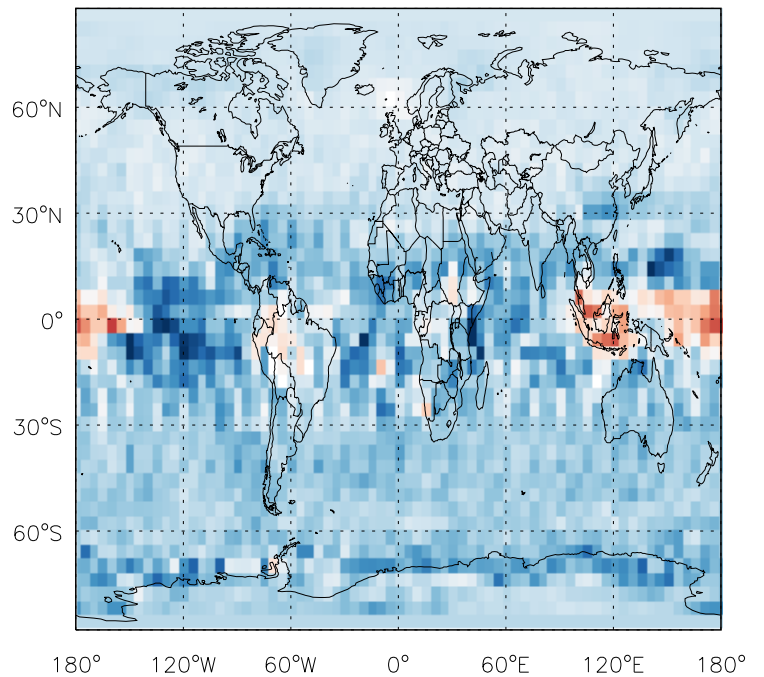
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Br2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
Br2 / Ratio @ Surface for Jan



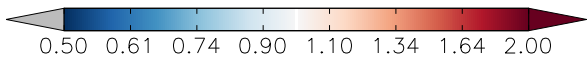
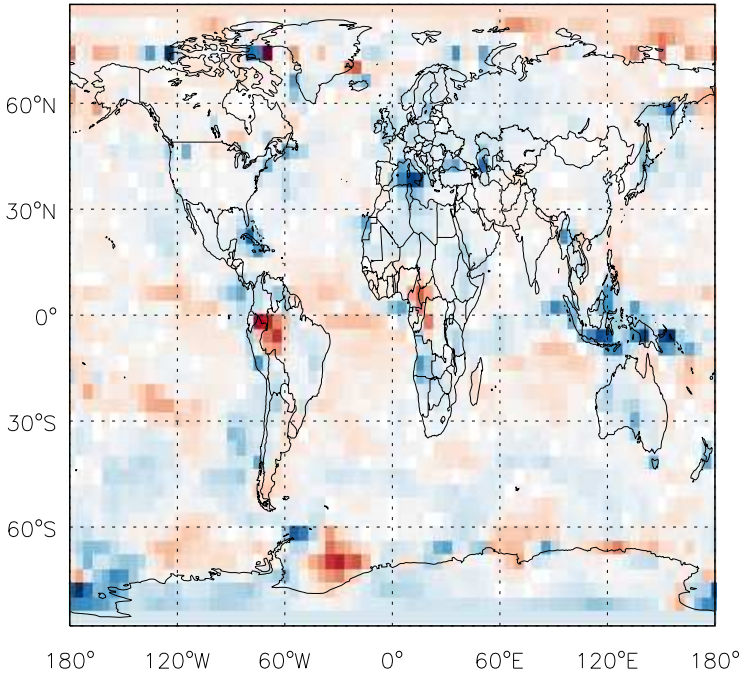
v11-01f-merra2-Run0 / v11-01d-Run1  
Br2 / Ratio @ 500 hPa for Jan



# GEOS-Chem Ratio Maps at surface and 500 hPa

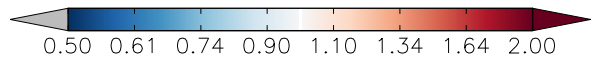
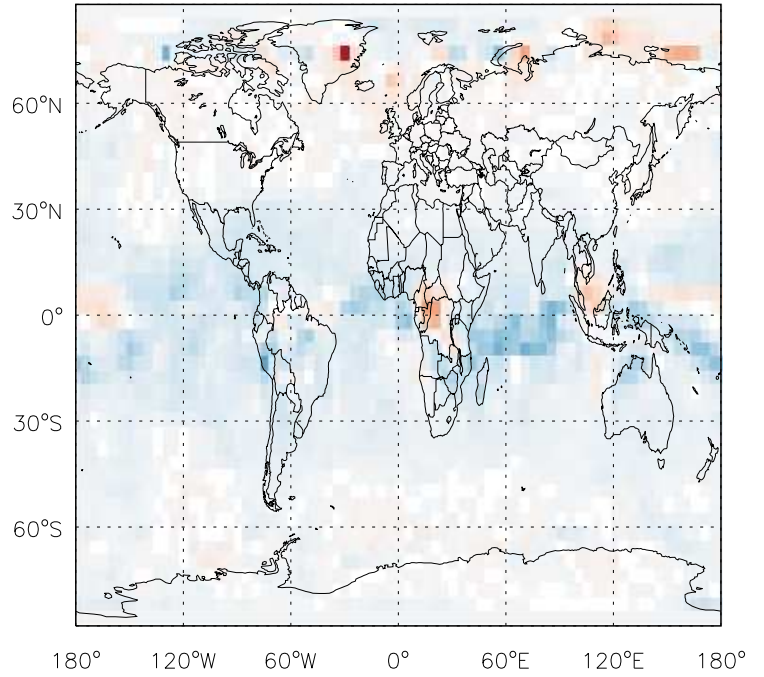
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Br / Ratio @ Surface for Jan



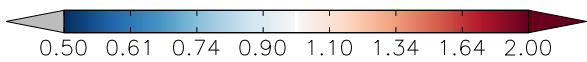
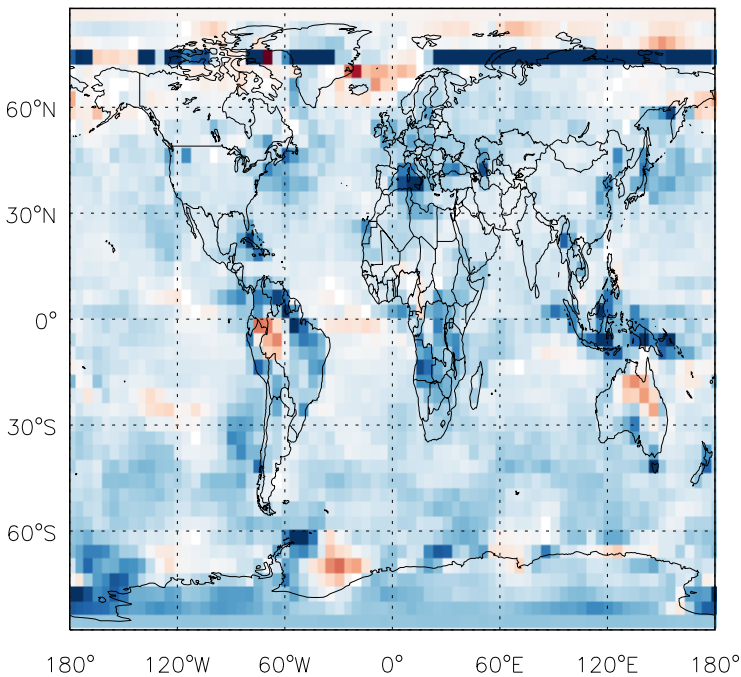
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

Br / Ratio @ 500 hPa for Jan



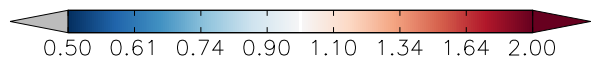
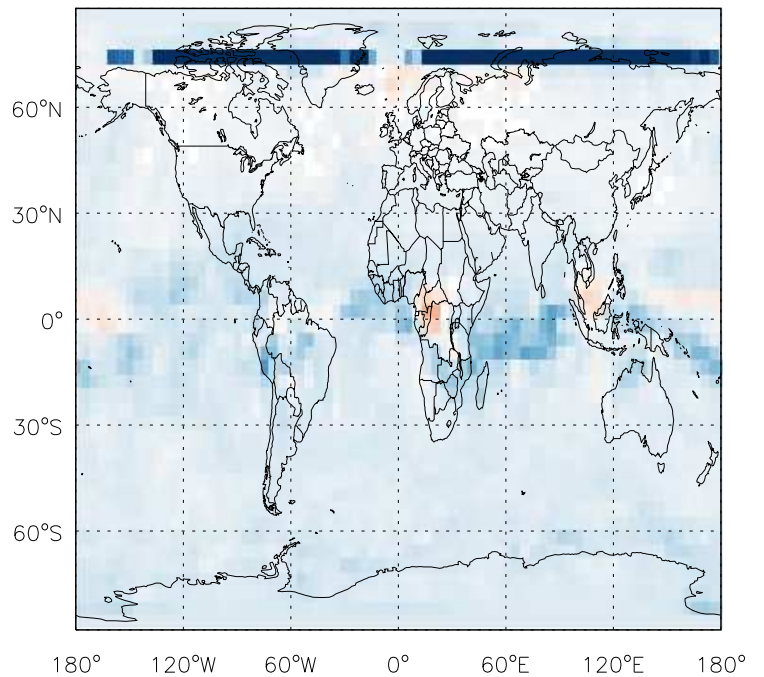
v11-01f-merra2-Run0 / v11-01d-Run1

Br / Ratio @ Surface for Jan



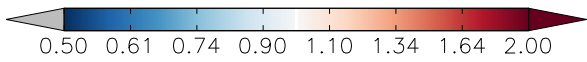
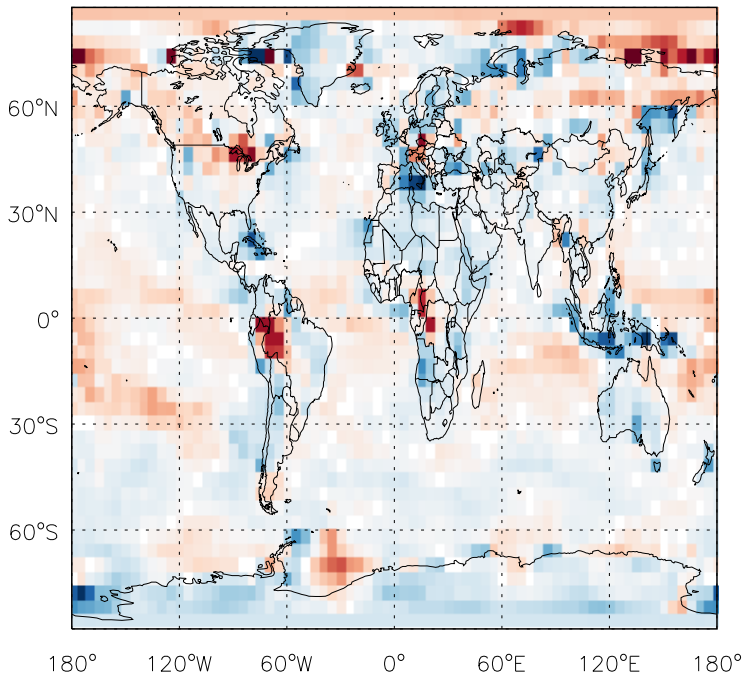
v11-01f-merra2-Run0 / v11-01d-Run1

Br / Ratio @ 500 hPa for Jan

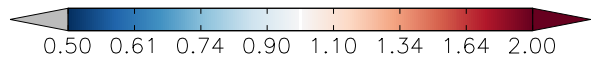
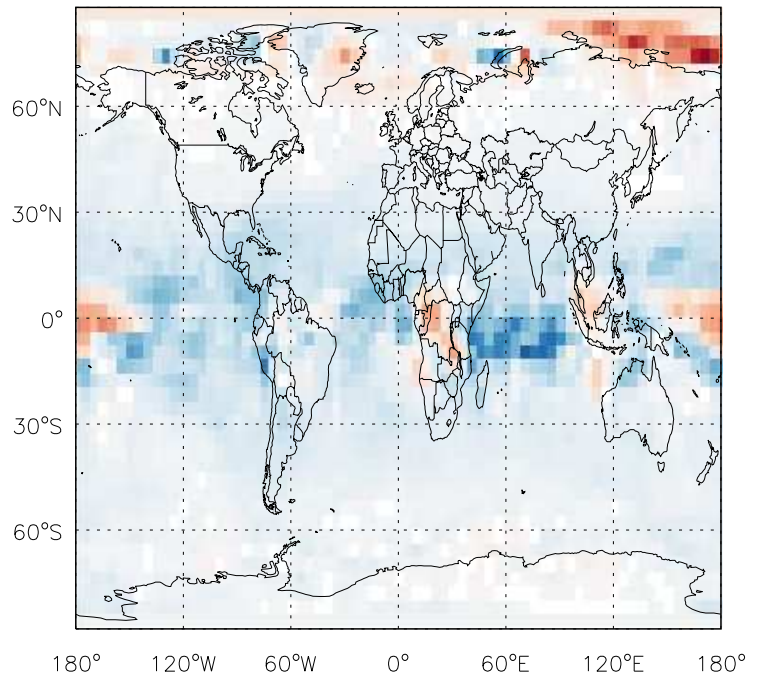


GEOS-Chem Ratio Maps at surface and 500 hPa

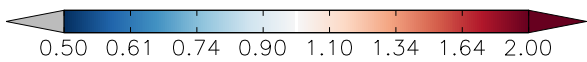
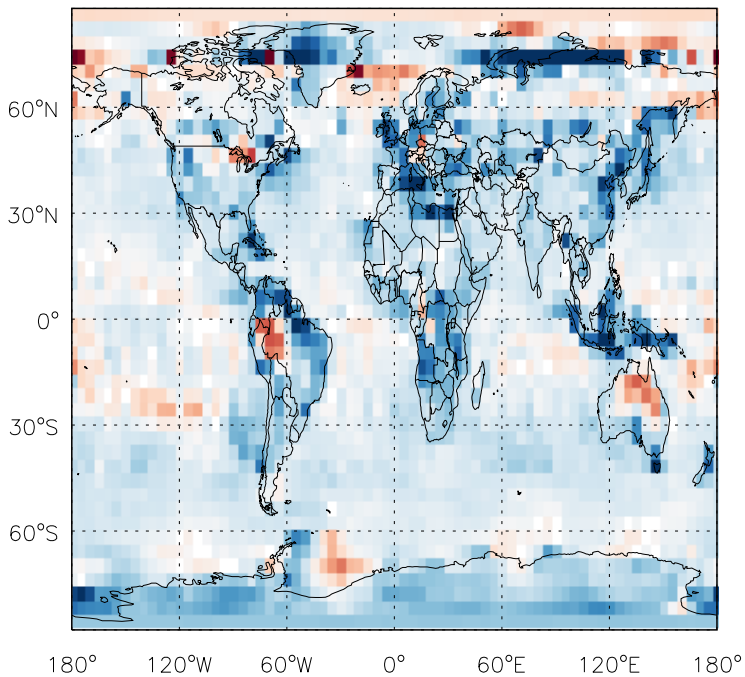
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BrO / Ratio @ Surface for Jan



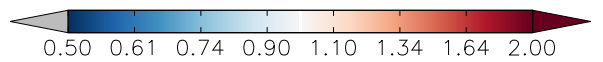
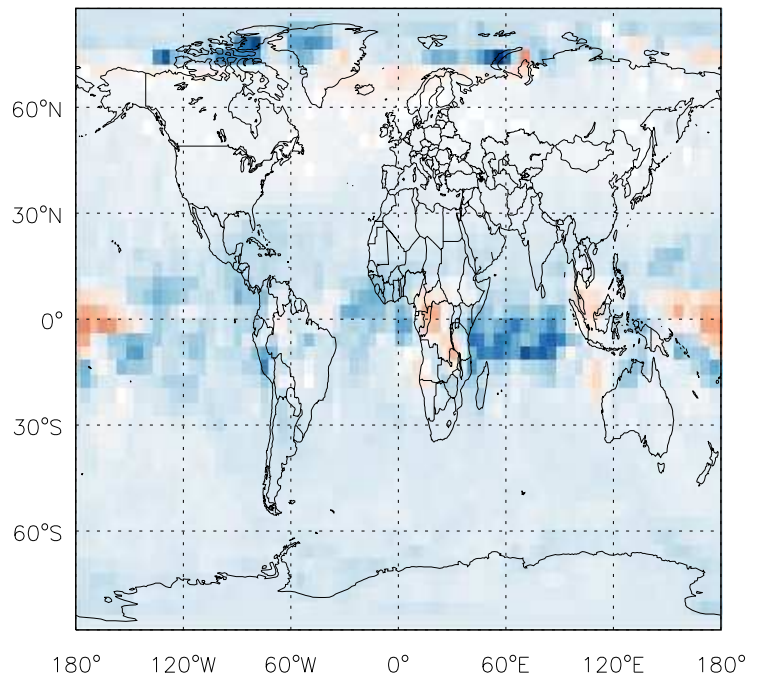
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BrO/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BrO / Ratio @ Surface for Jan

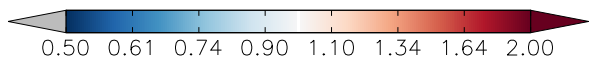
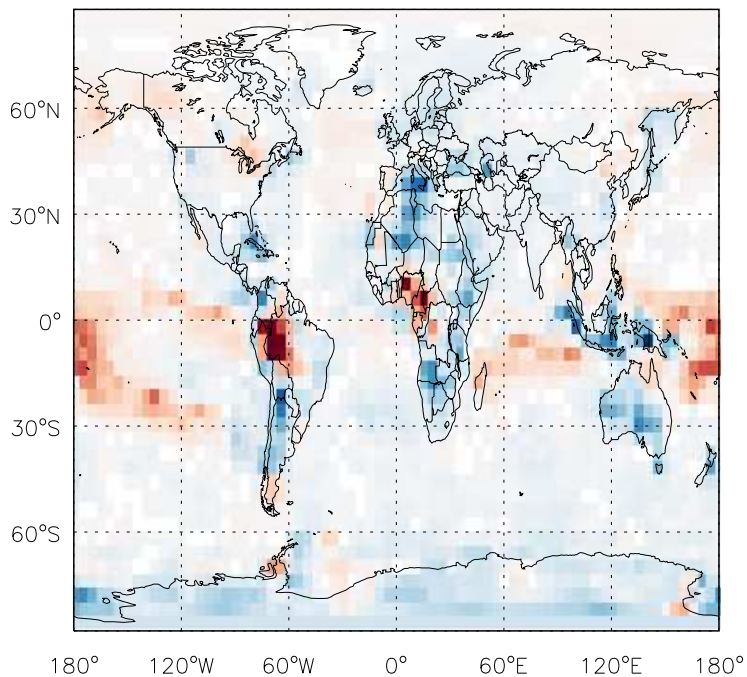


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BrO/ Ratio @ 500 hPa for Jan

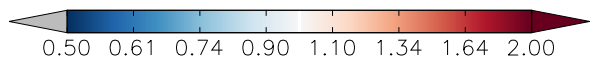
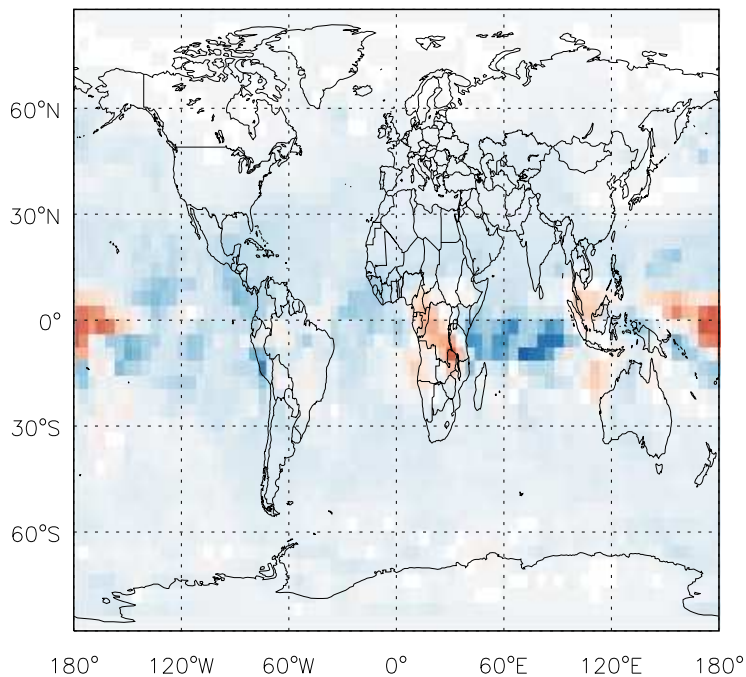


GEOS-Chem Ratio Maps at surface and 500 hPa

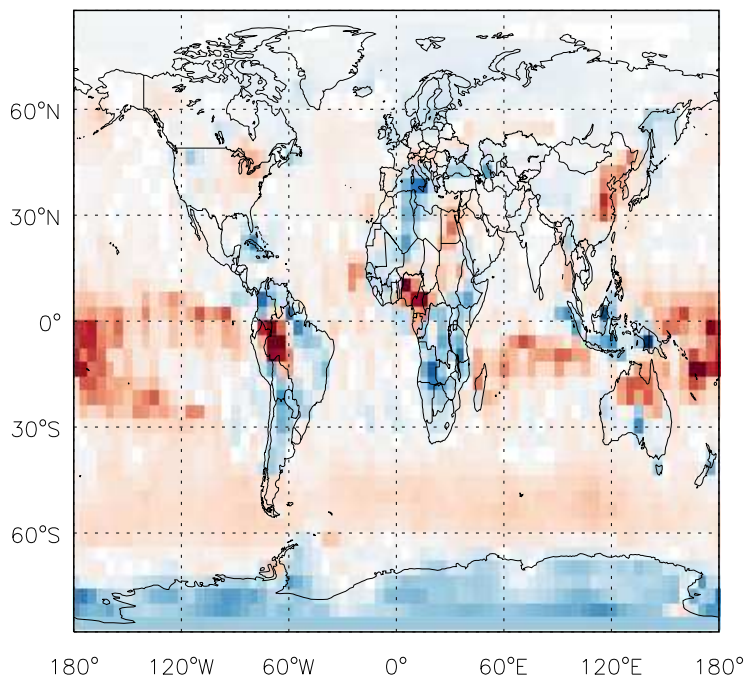
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HOBr / Ratio @ Surface for Jan



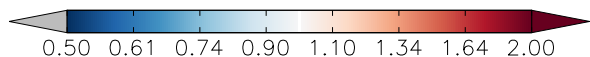
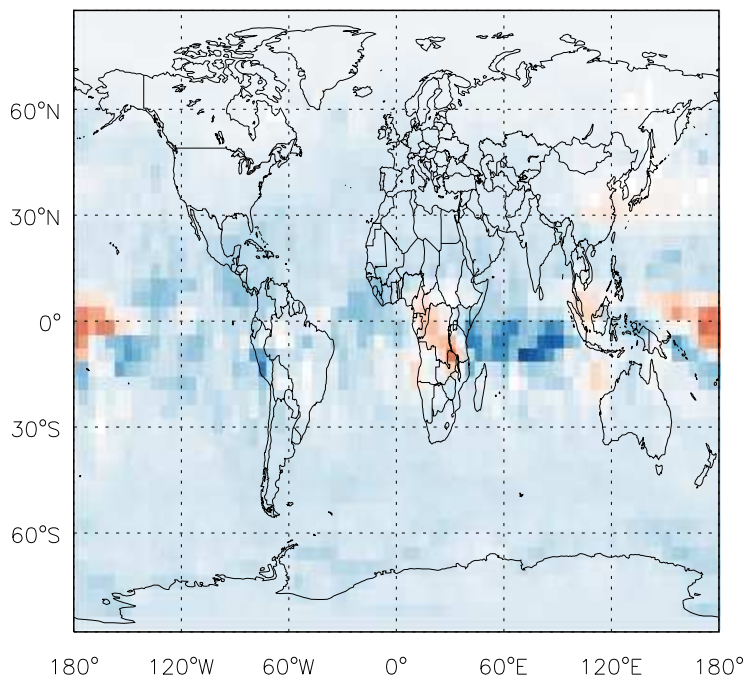
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HOBr/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HOBr / Ratio @ Surface for Jan

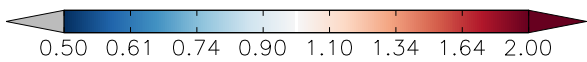
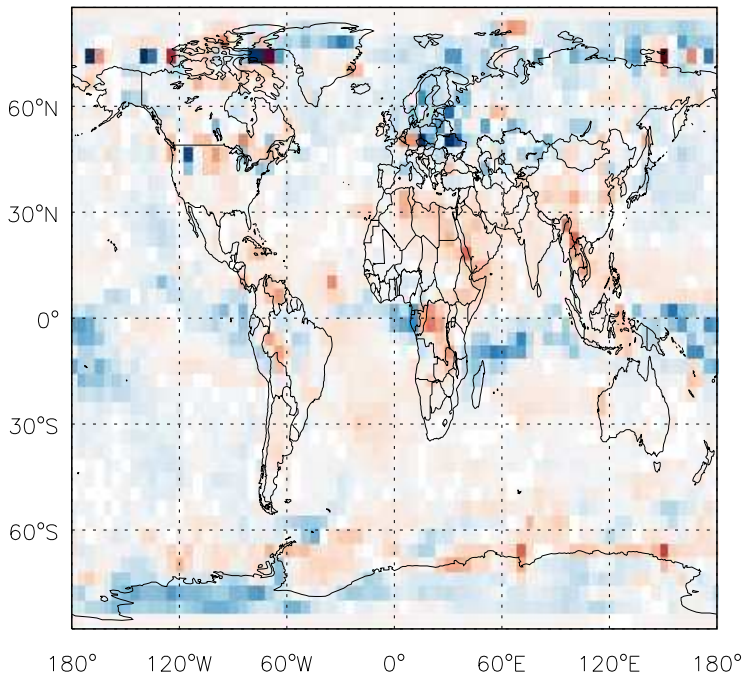


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HOBr/ Ratio @ 500 hPa for Jan

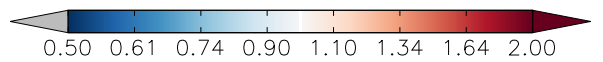
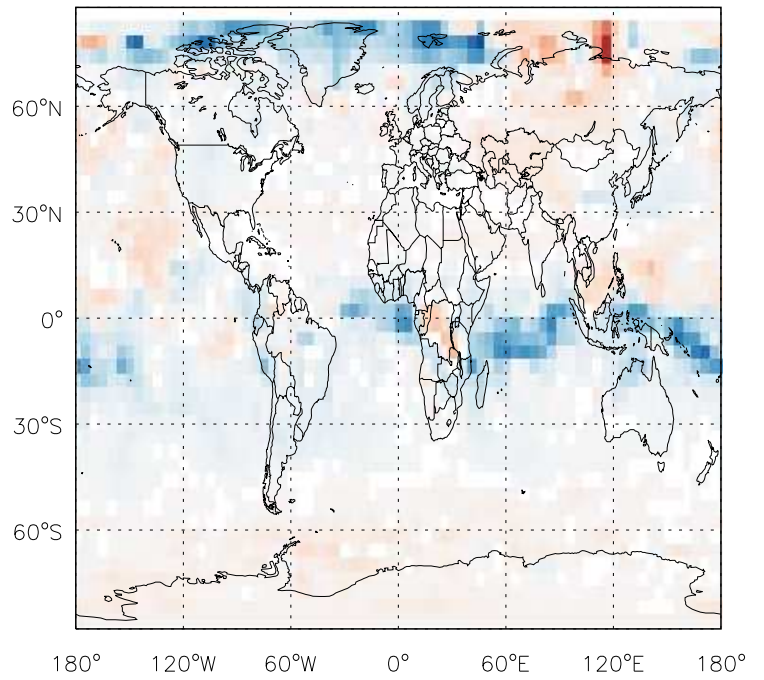


GEOS-Chem Ratio Maps at surface and 500 hPa

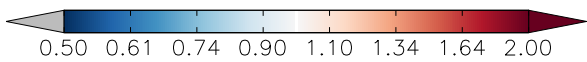
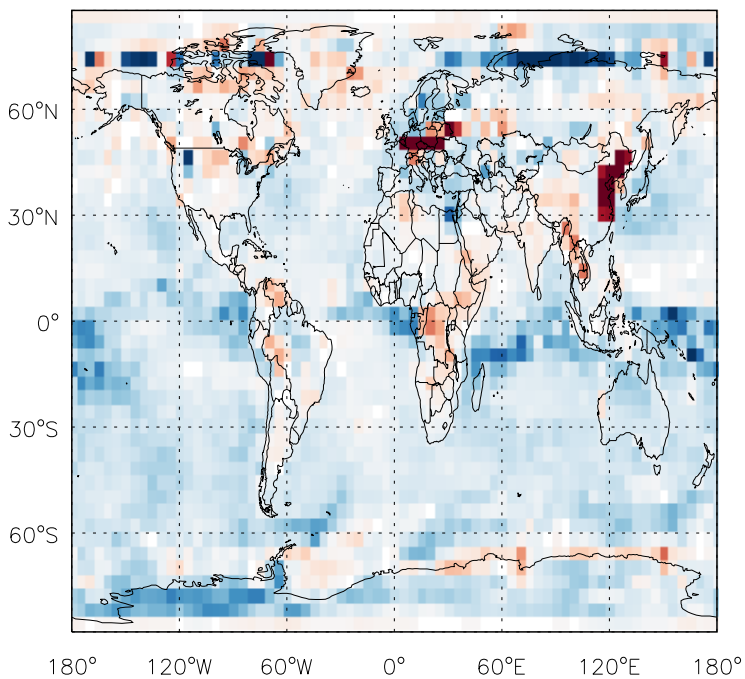
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HBr / Ratio @ Surface for Jan



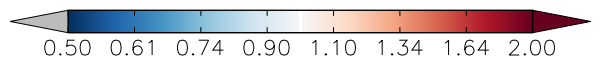
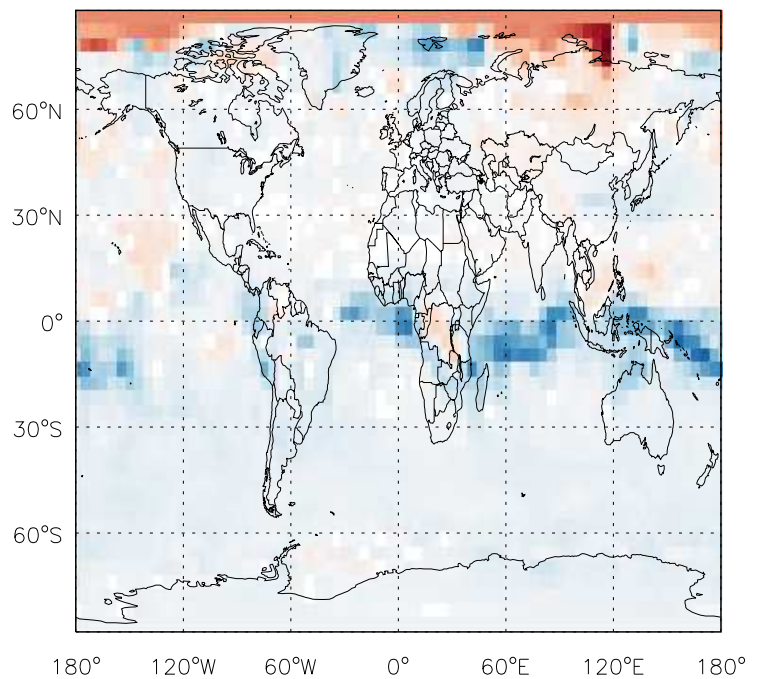
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HBr/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HBr / Ratio @ Surface for Jan



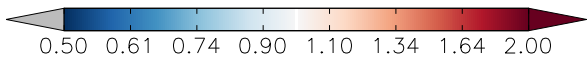
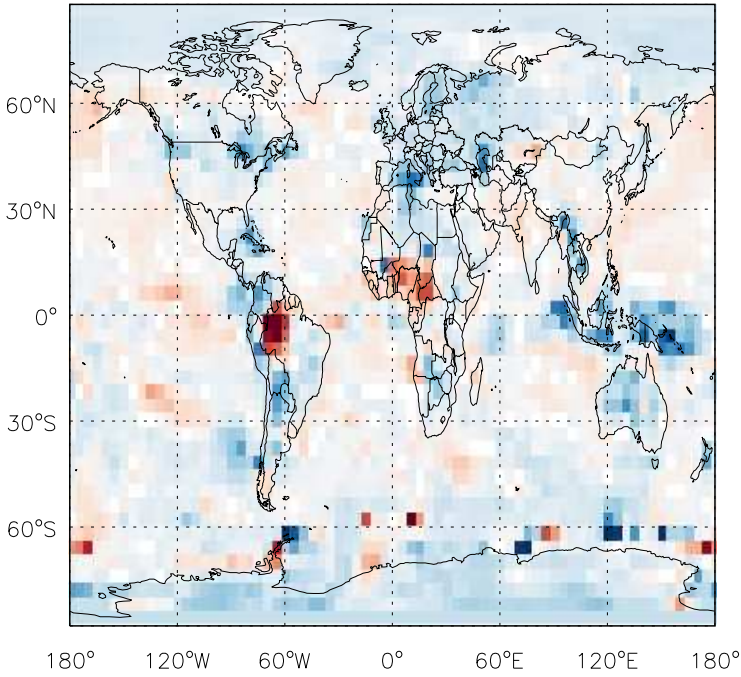
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HBr/ Ratio @ 500 hPa for Jan



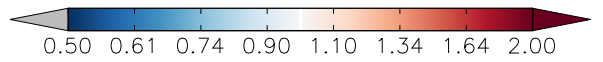
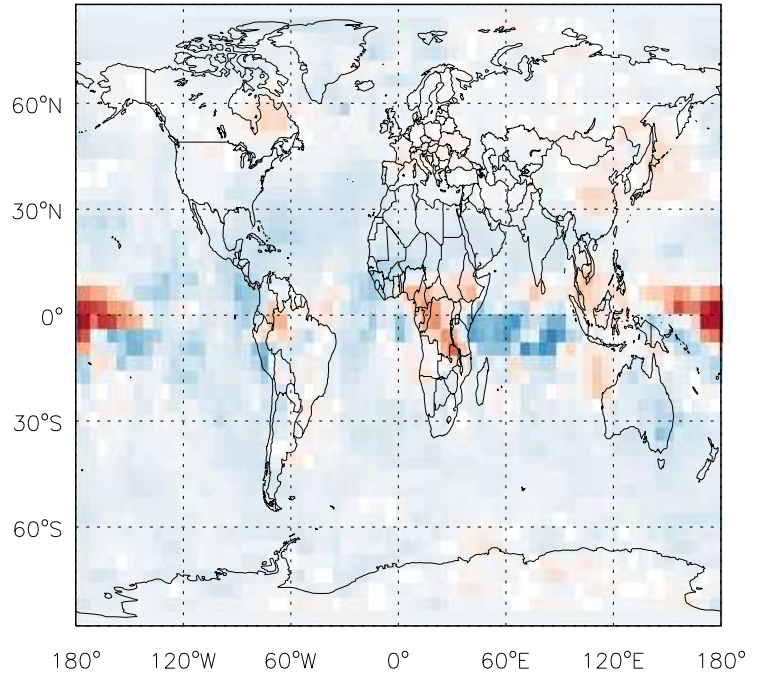


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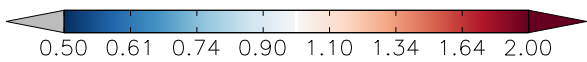
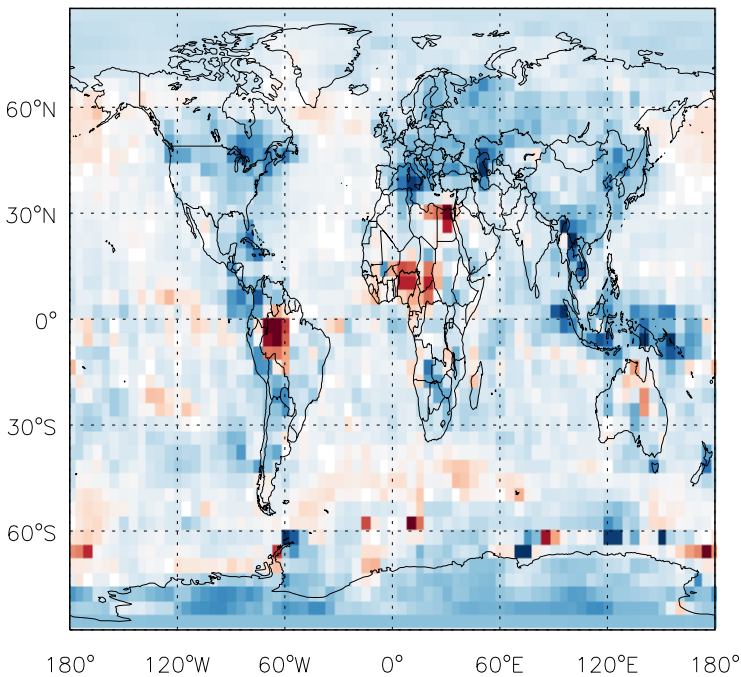
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BrNO2 / Ratio @ Surface for Jan



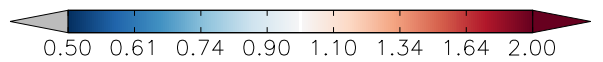
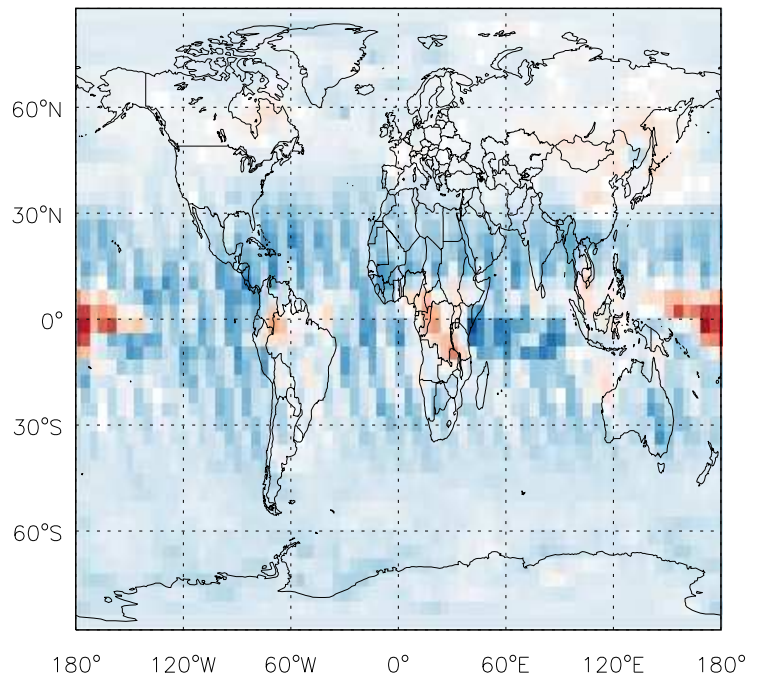
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BrNO2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BrNO2 / Ratio @ Surface for Jan

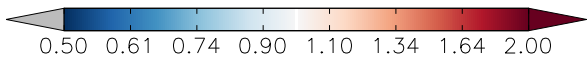
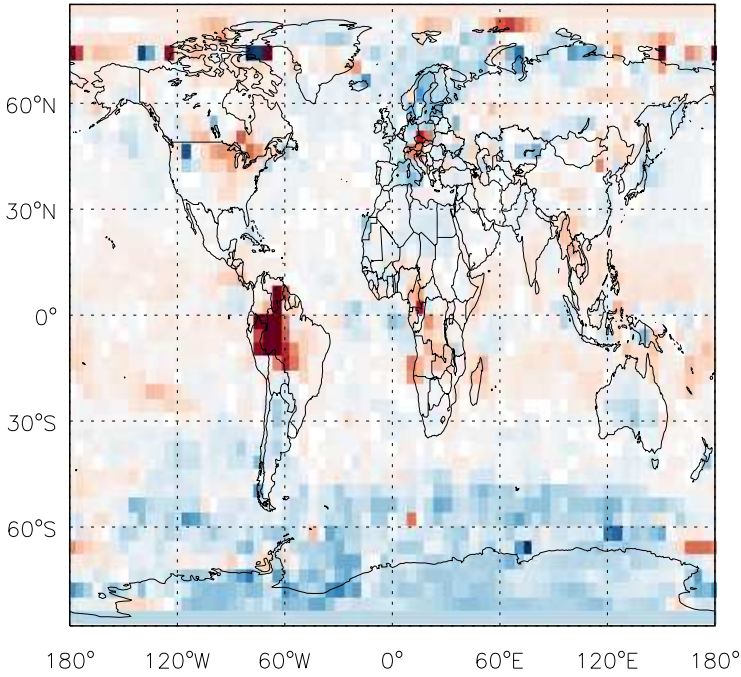


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BrNO2 / Ratio @ 500 hPa for Jan

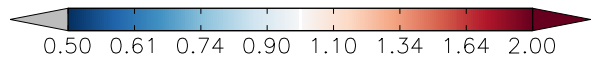
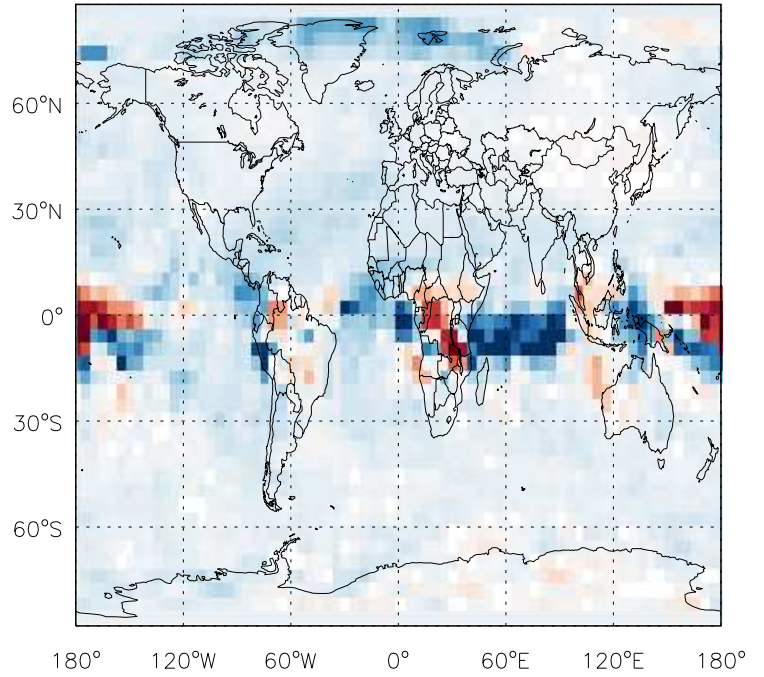


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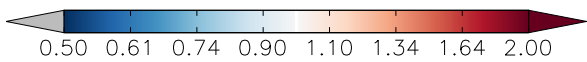
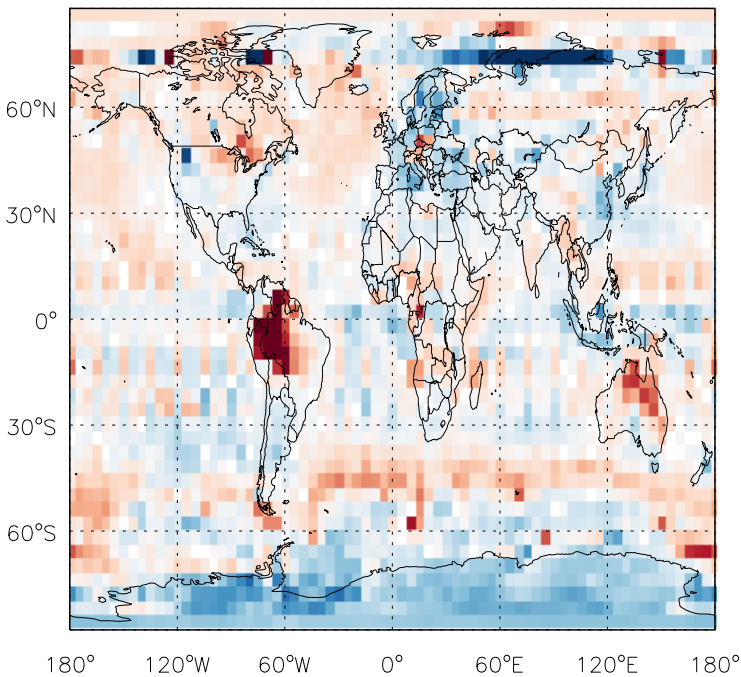
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BrNO3 / Ratio @ Surface for Jan



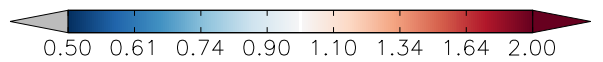
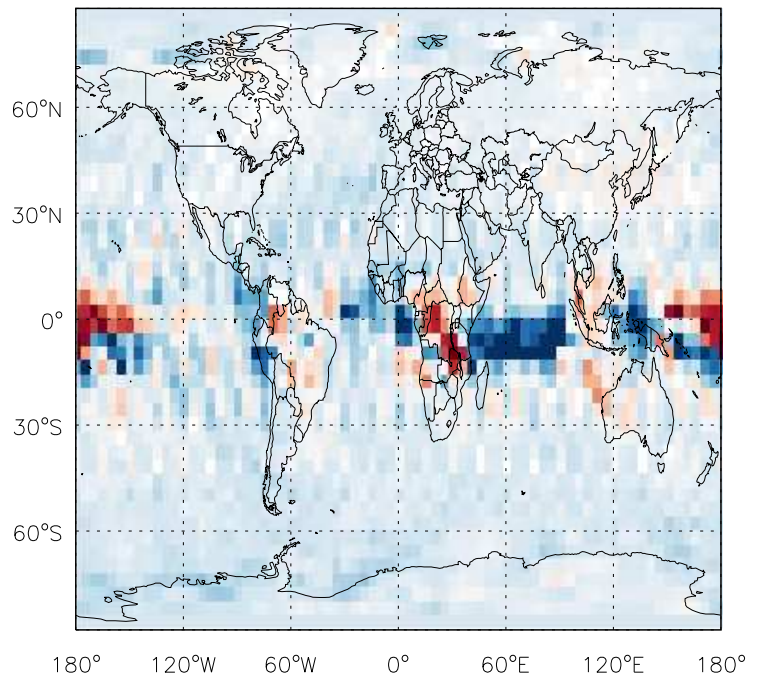
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BrNO3/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BrNO3 / Ratio @ Surface for Jan

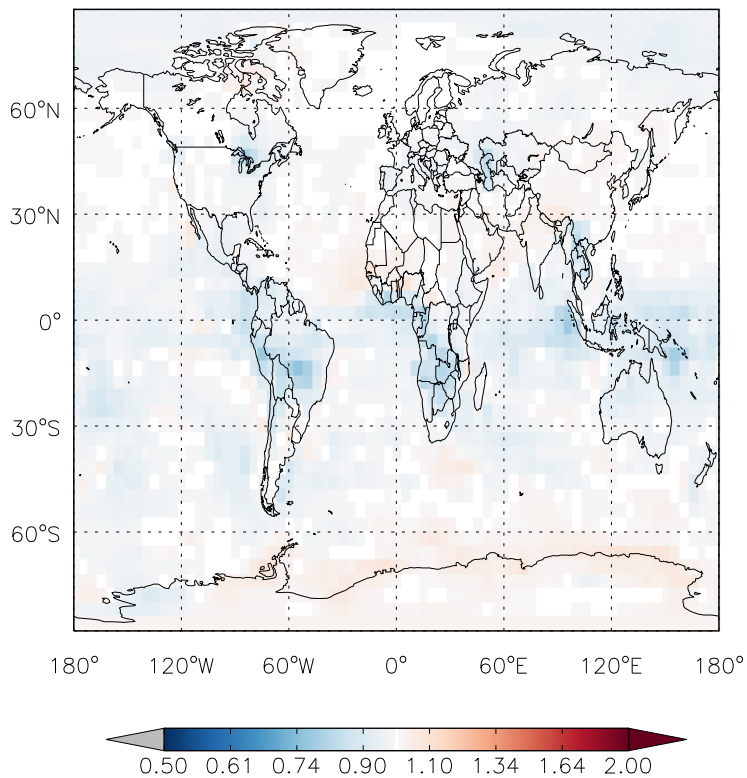


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BrNO3/ Ratio @ 500 hPa for Jan

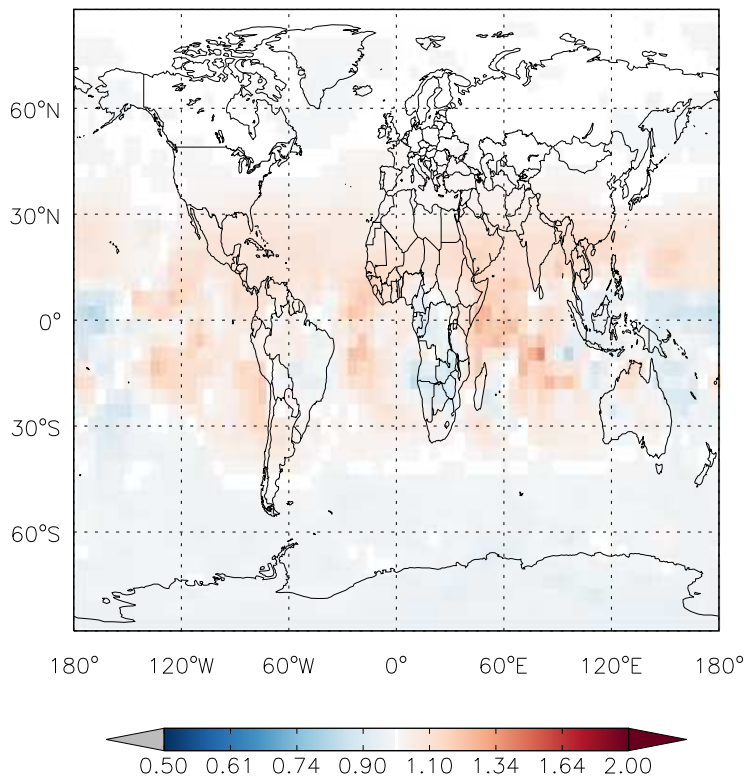


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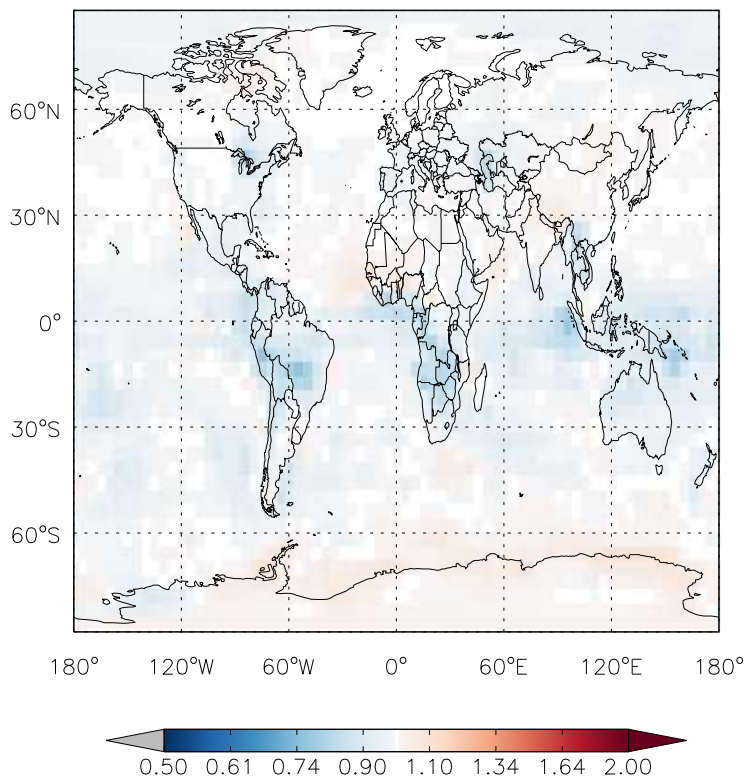
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CHBr<sub>3</sub> / Ratio @ Surface for Jan



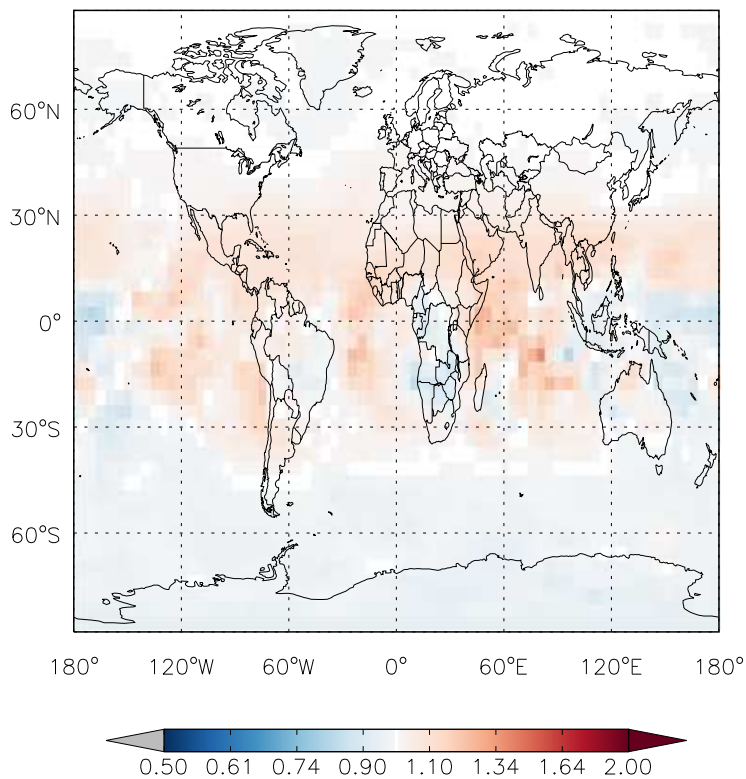
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CHBr<sub>3</sub>/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CHBr<sub>3</sub> / Ratio @ Surface for Jan



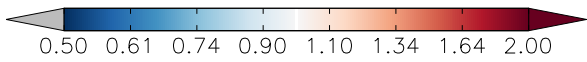
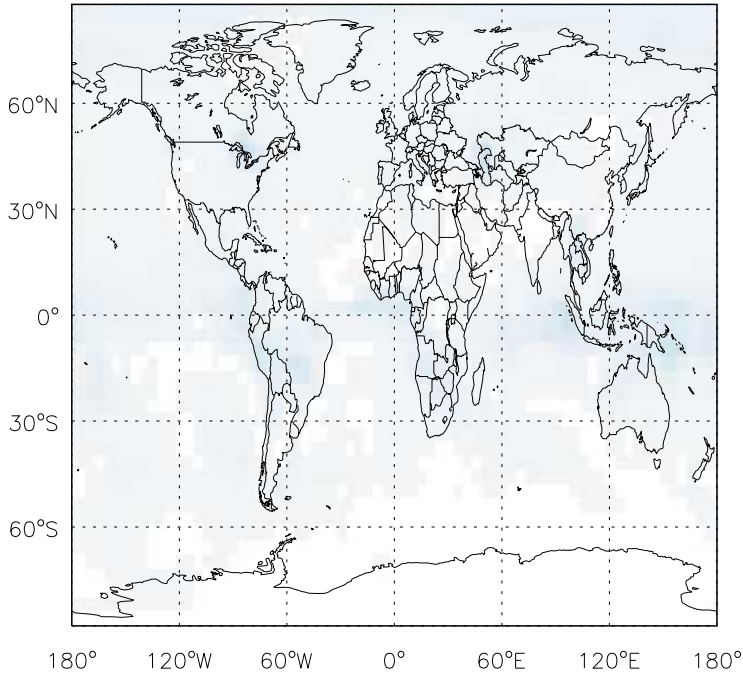
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CHBr<sub>3</sub>/ Ratio @ 500 hPa for Jan



GEOS-Chem Ratio Maps at surface and 500 hPa

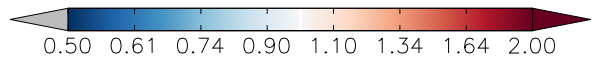
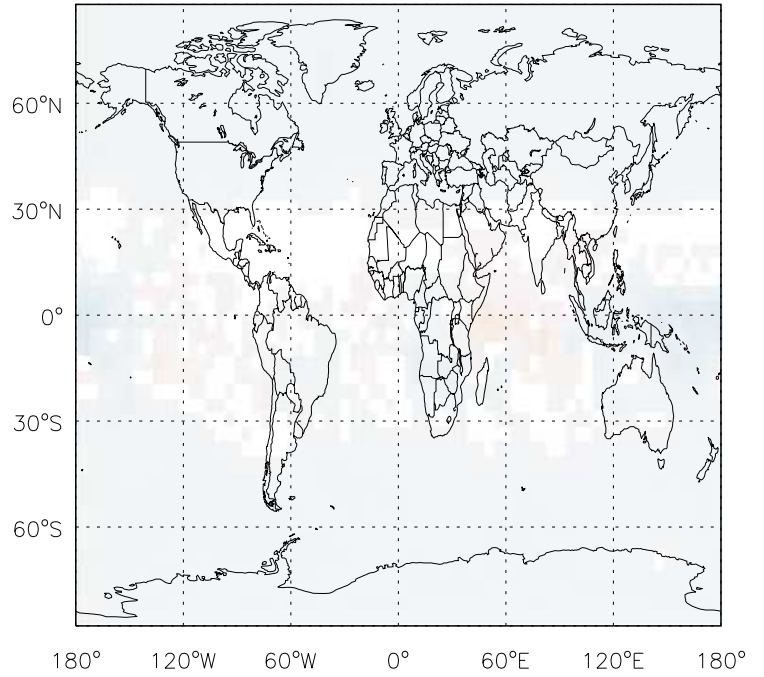
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

CH<sub>2</sub>Br<sub>2</sub> / Ratio @ Surface for Jan



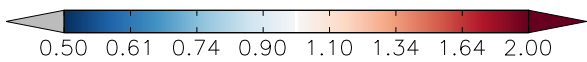
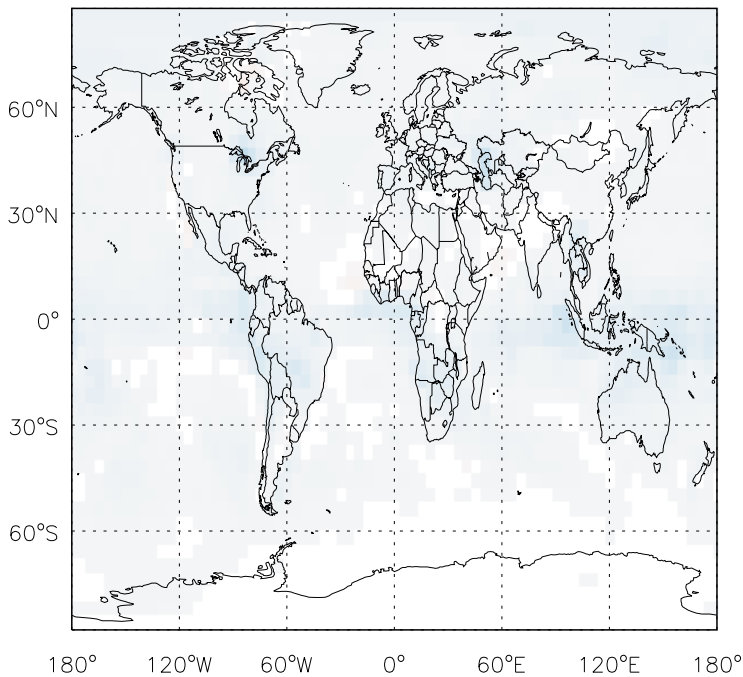
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

CH<sub>2</sub>Br<sub>2</sub> / Ratio @ 500 hPa for Jan



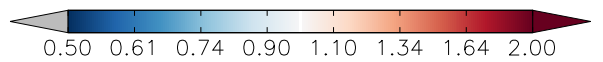
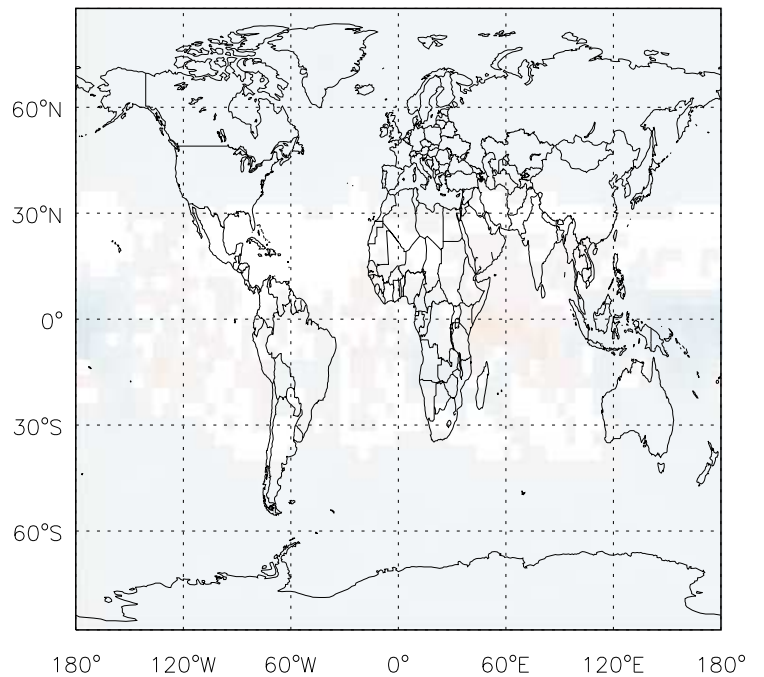
v11-01f-merra2-Run0 / v11-01d-Run1

CH<sub>2</sub>Br<sub>2</sub> / Ratio @ Surface for Jan



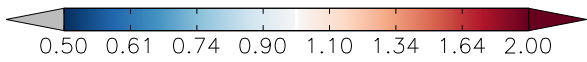
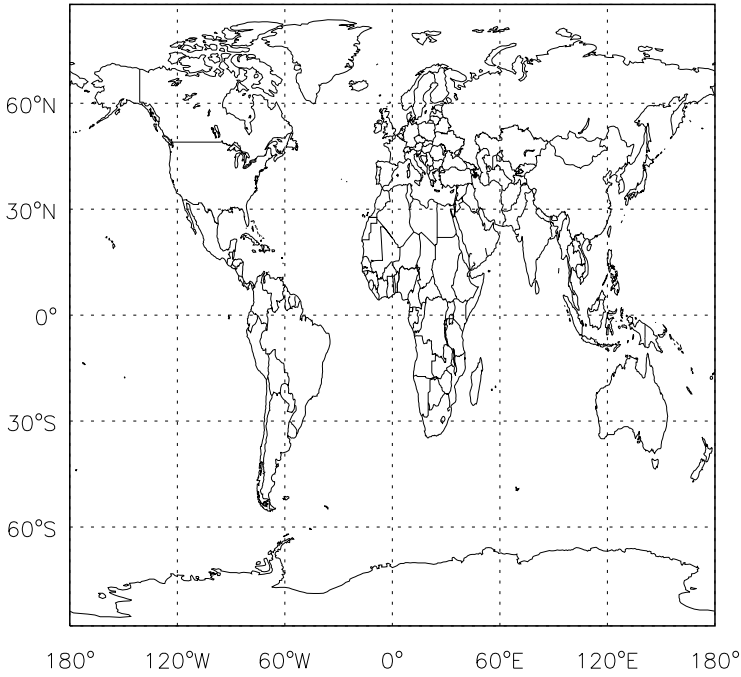
v11-01f-merra2-Run0 / v11-01d-Run1

CH<sub>2</sub>Br<sub>2</sub> / Ratio @ 500 hPa for Jan

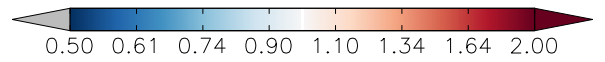
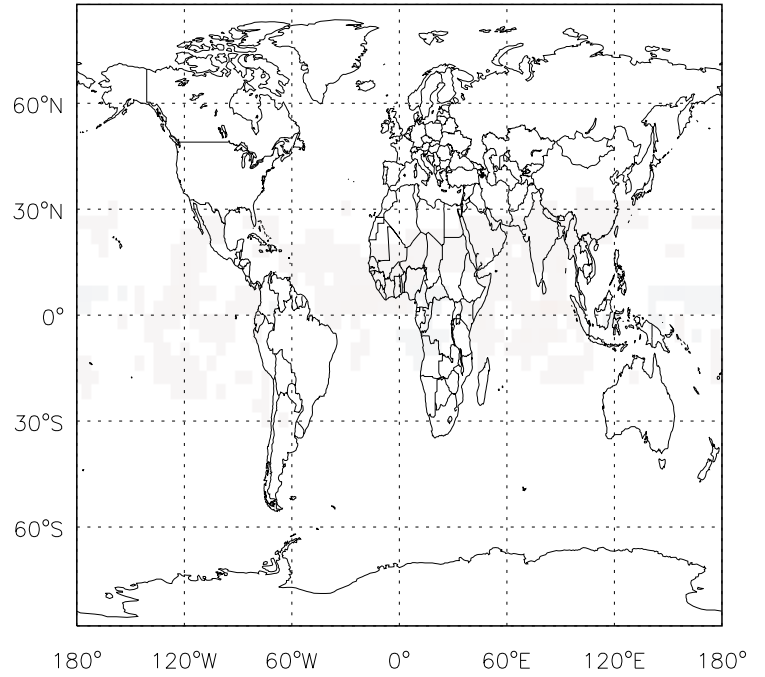


GEOS-Chem Ratio Maps at surface and 500 hPa

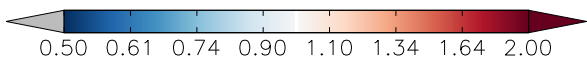
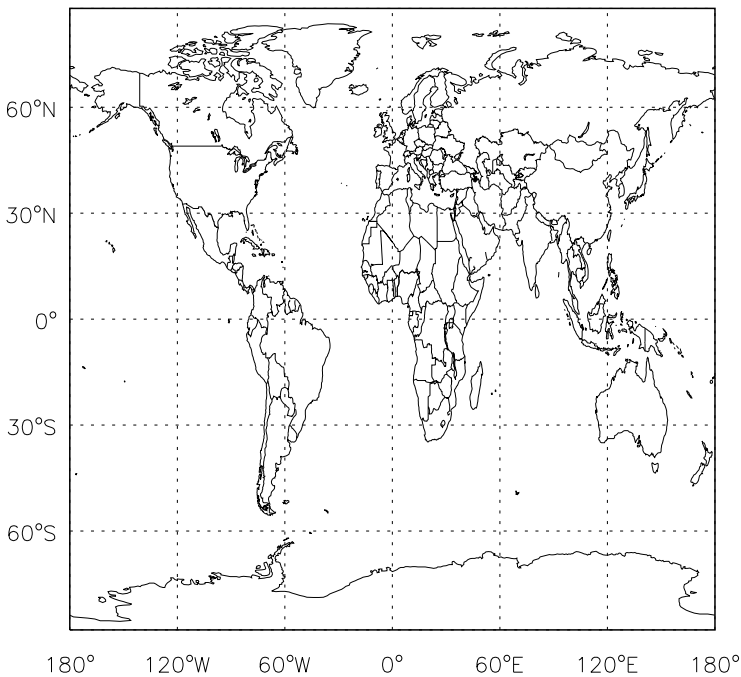
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3Br / Ratio @ Surface for Jan



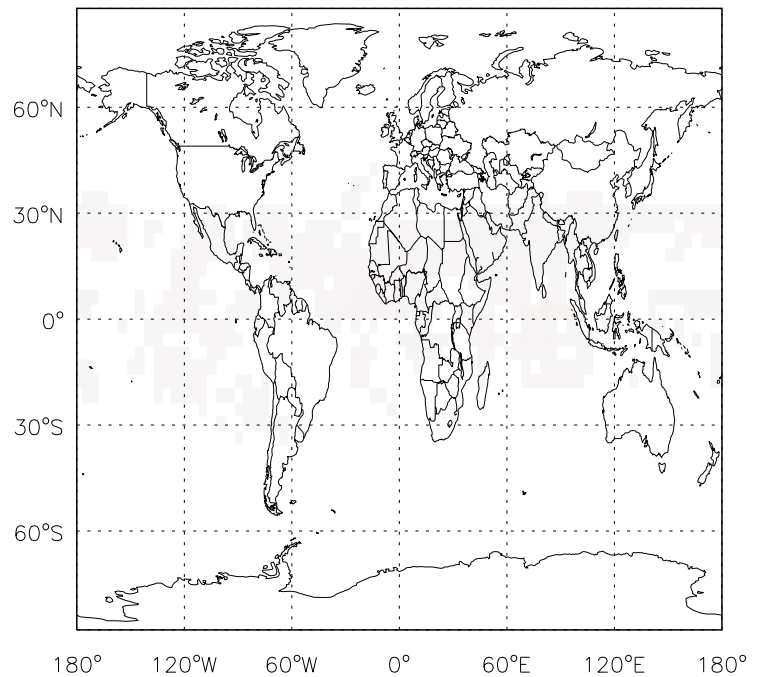
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3Br/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CH3Br / Ratio @ Surface for Jan

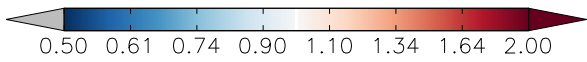
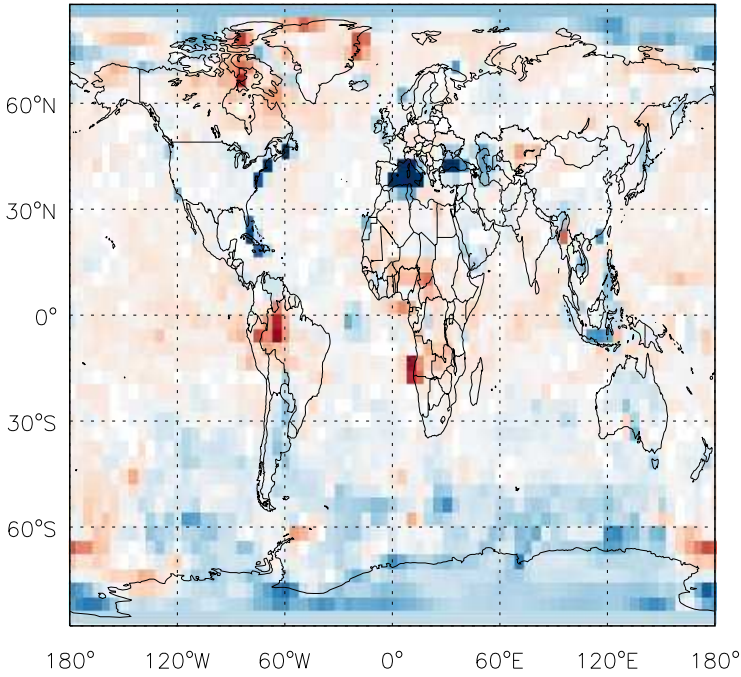


v11-01f-merra2-Run0 / v11-01d-Run1  
CH3Br/ Ratio @ 500 hPa for Jan

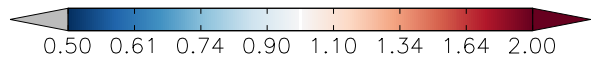
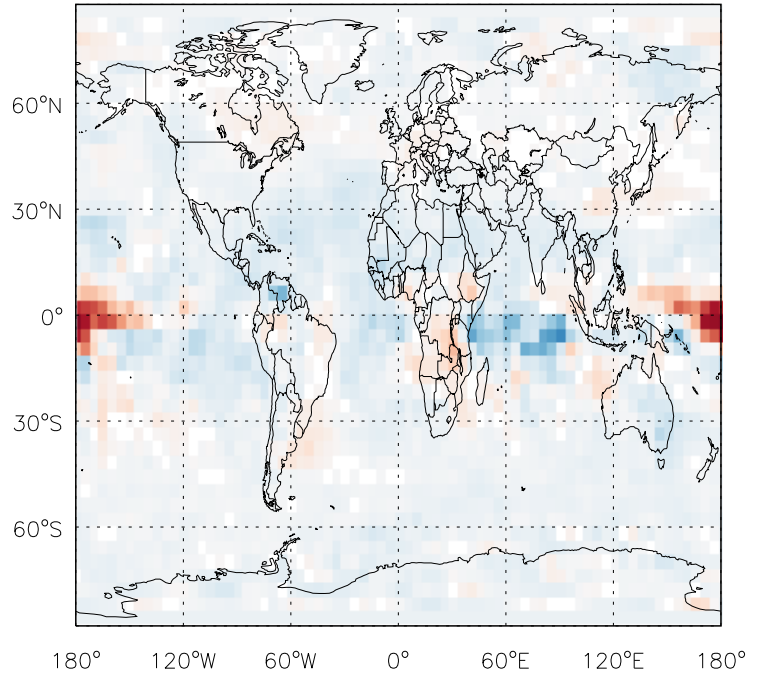


# GEOS-Chem Ratio Maps at surface and 500 hPa

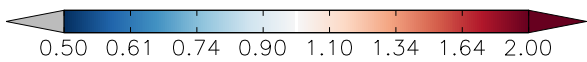
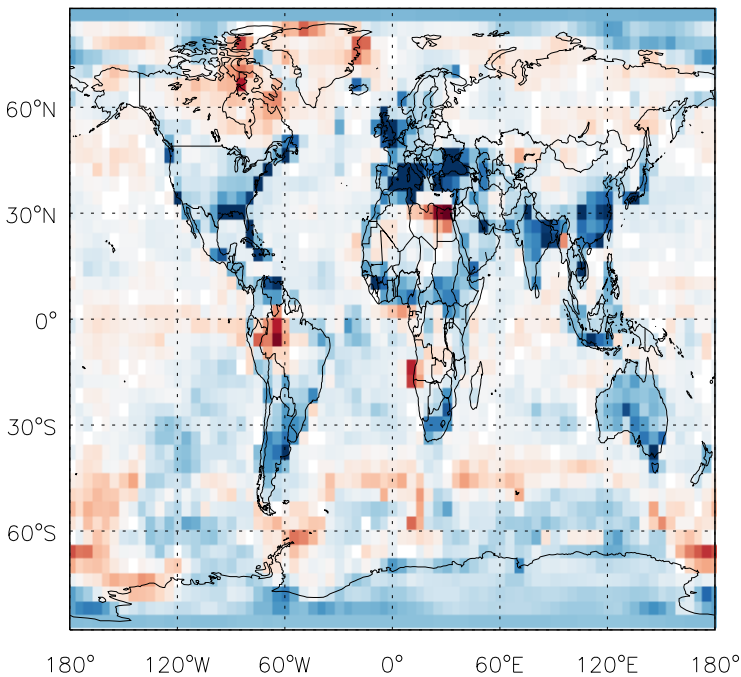
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MPN / Ratio @ Surface for Jan



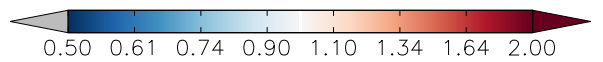
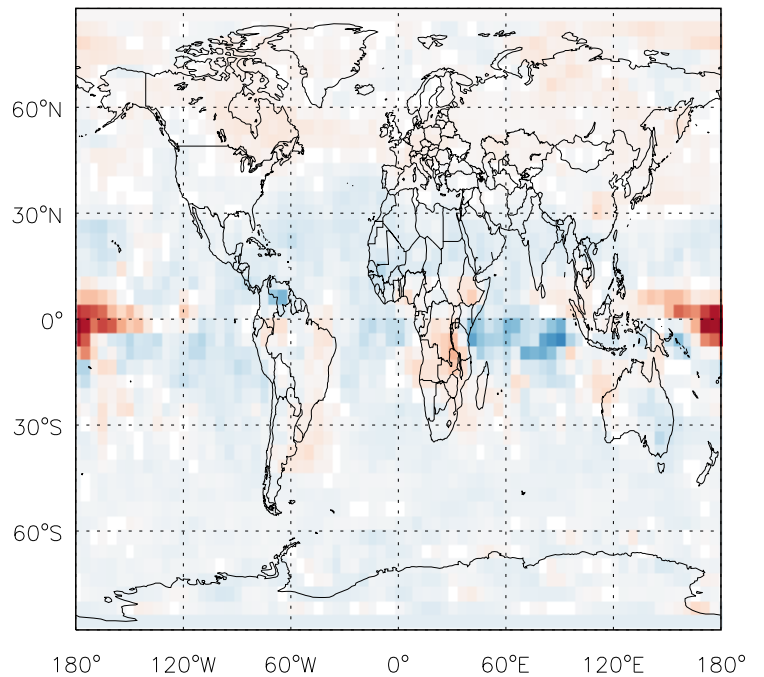
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MPN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MPN / Ratio @ Surface for Jan

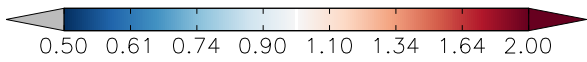
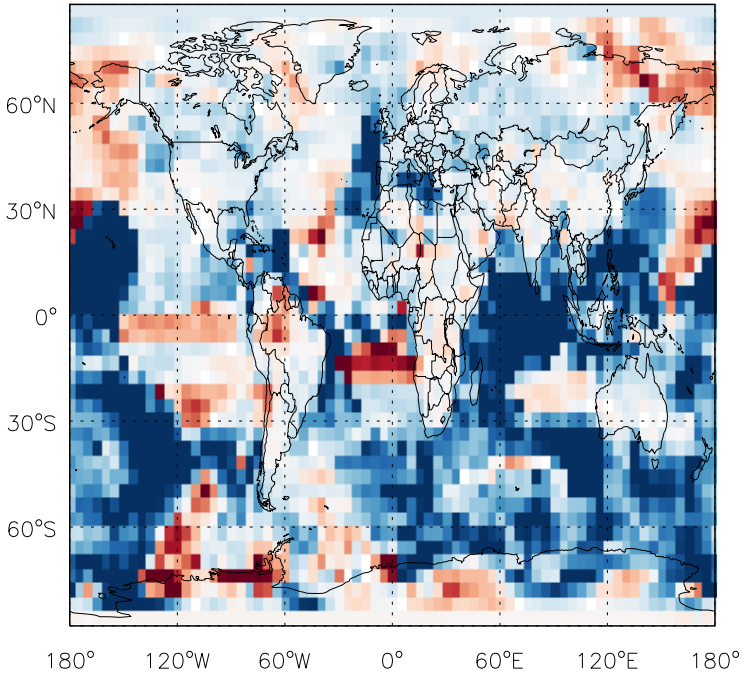


v11-01f-merra2-Run0 / v11-01d-Run1  
MPN/ Ratio @ 500 hPa for Jan

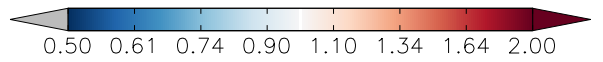
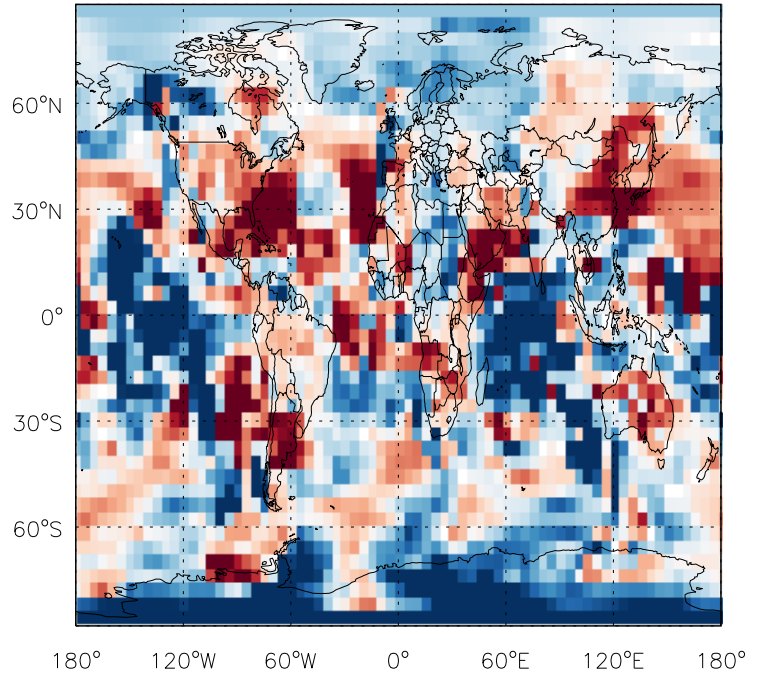


GEOS-Chem Ratio Maps at surface and 500 hPa

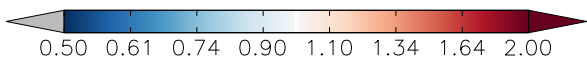
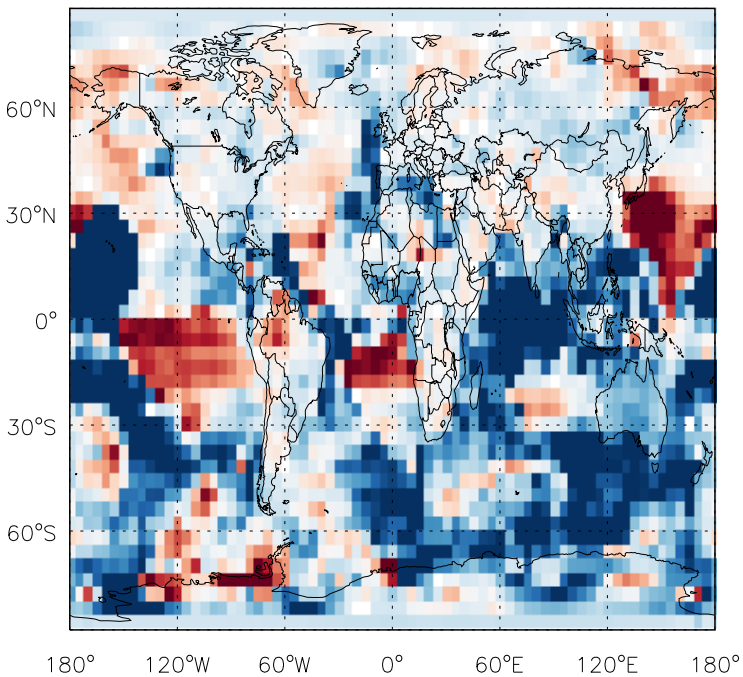
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ISOPN / Ratio @ Surface for Jan



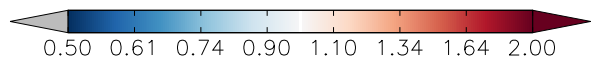
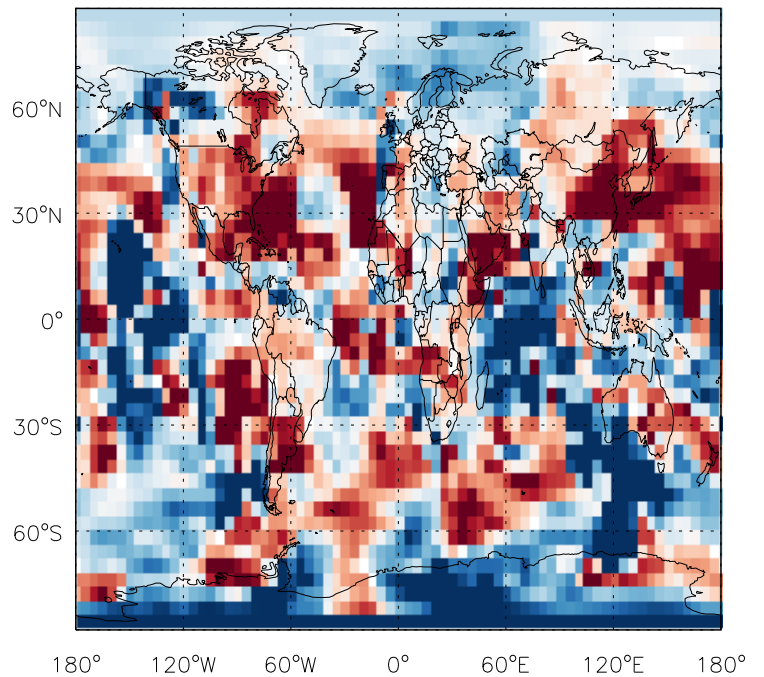
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ISOPN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ISOPN / Ratio @ Surface for Jan

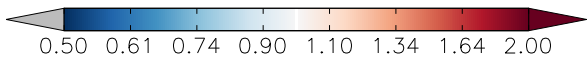
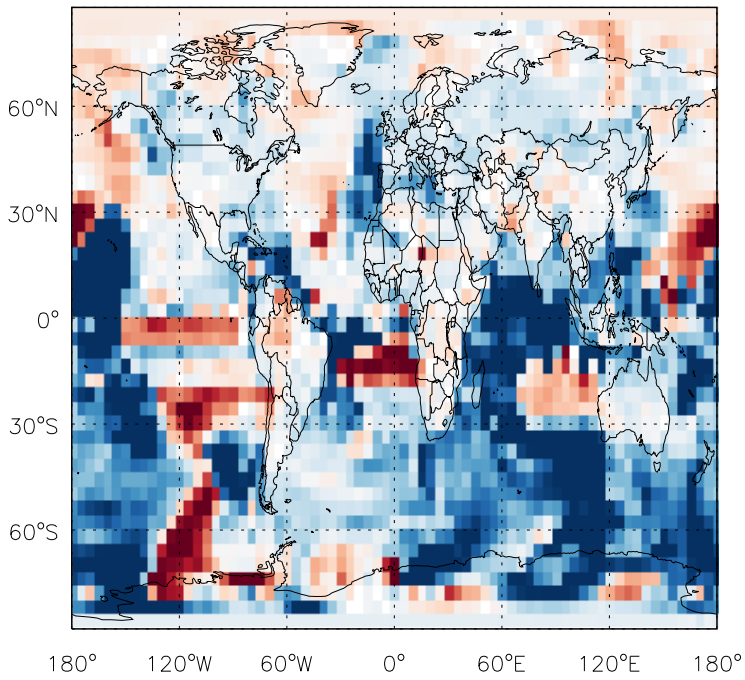


v11-01f-merra2-Run0 / v11-01d-Run1  
ISOPN/ Ratio @ 500 hPa for Jan

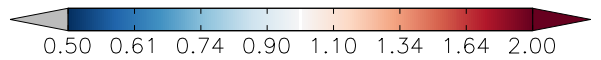
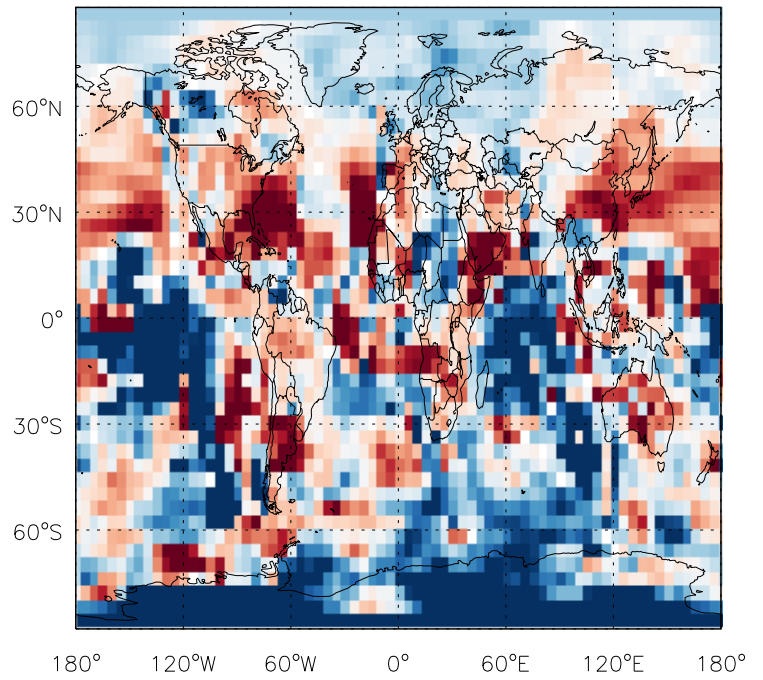


GEOS-Chem Ratio Maps at surface and 500 hPa

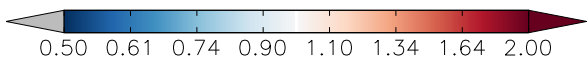
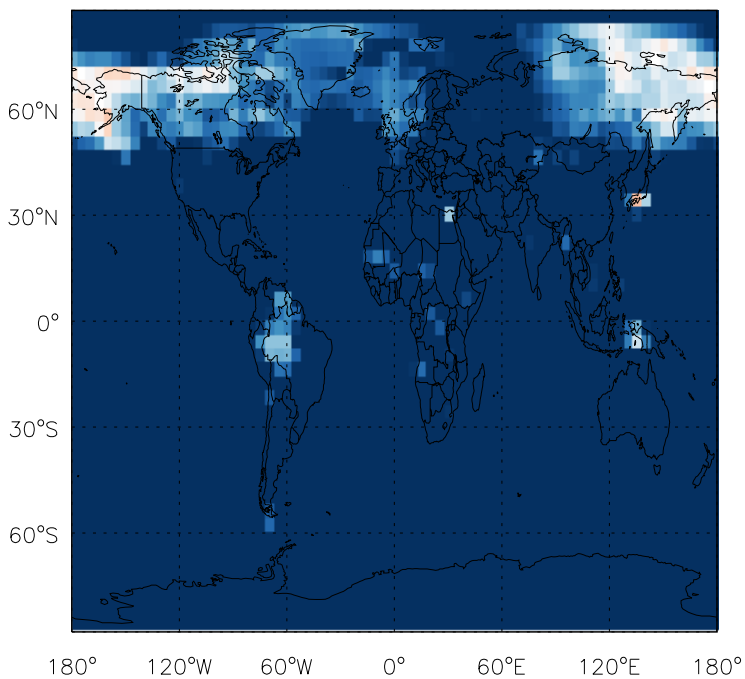
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MOBA / Ratio @ Surface for Jan



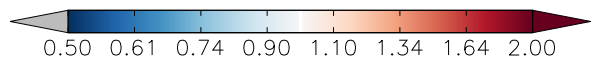
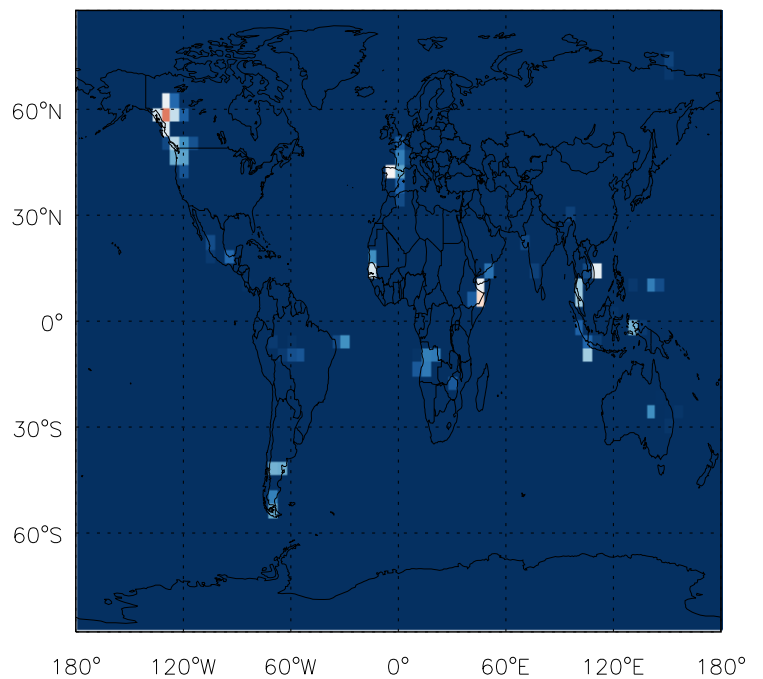
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MOBA/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MOBA / Ratio @ Surface for Jan



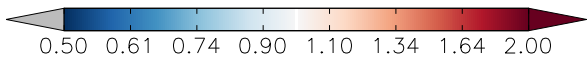
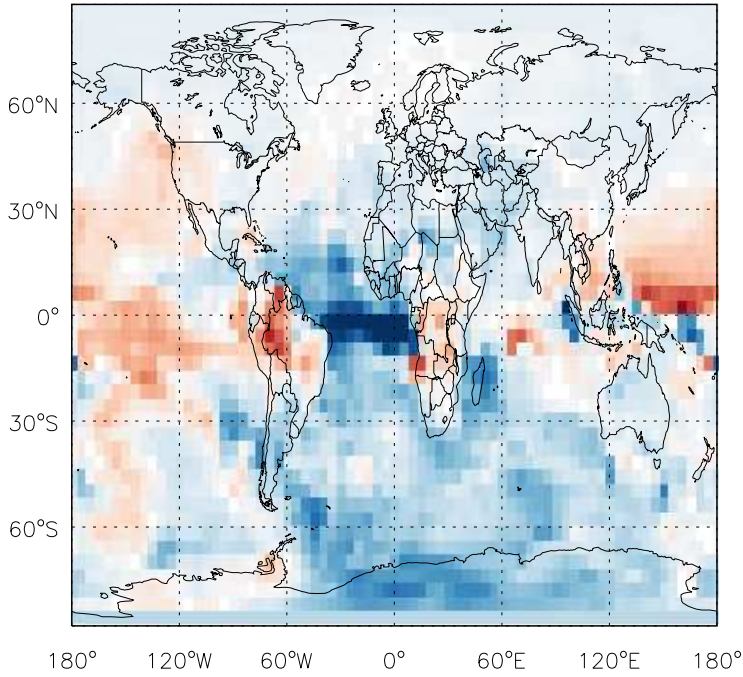
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MOBA/ Ratio @ 500 hPa for Jan



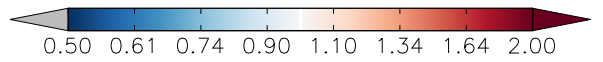
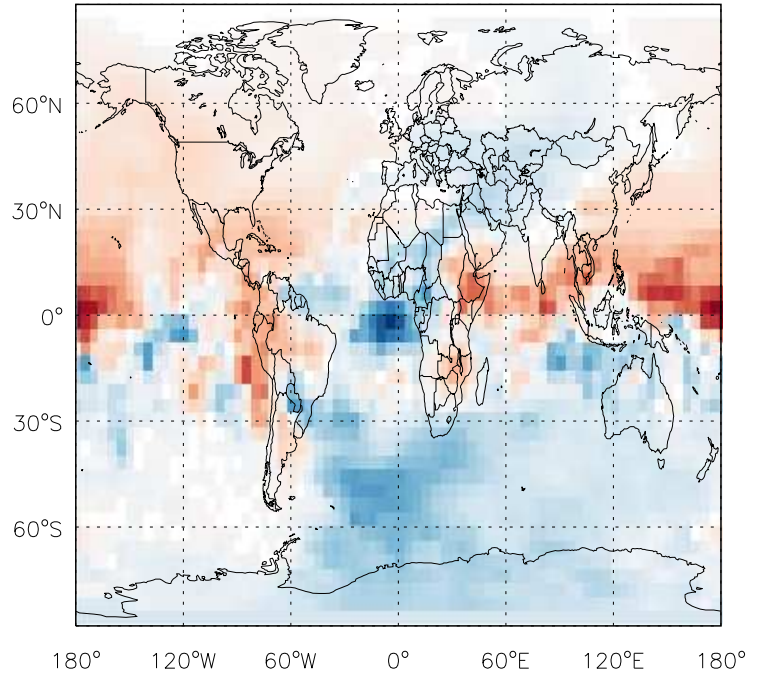


GEOS-Chem Ratio Maps at surface and 500 hPa

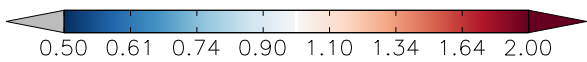
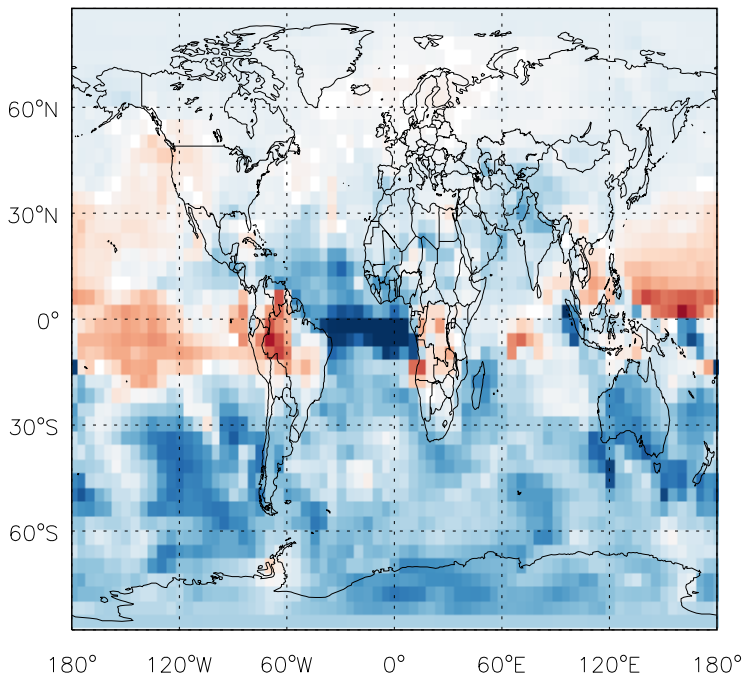
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PROPNN / Ratio @ Surface for Jan



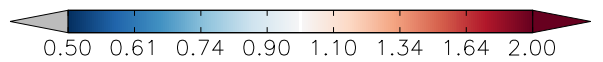
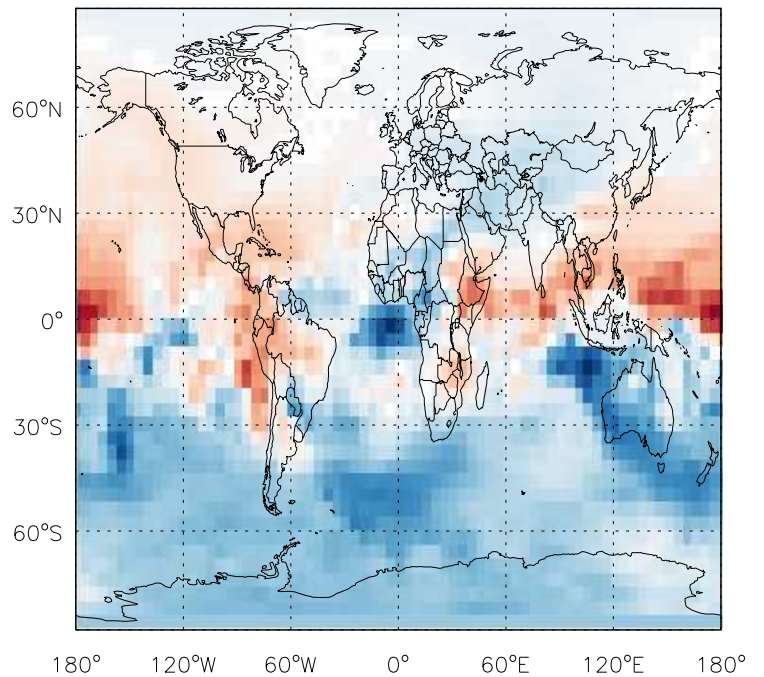
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PROPNN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
PROPNN / Ratio @ Surface for Jan

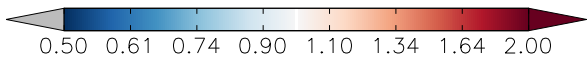
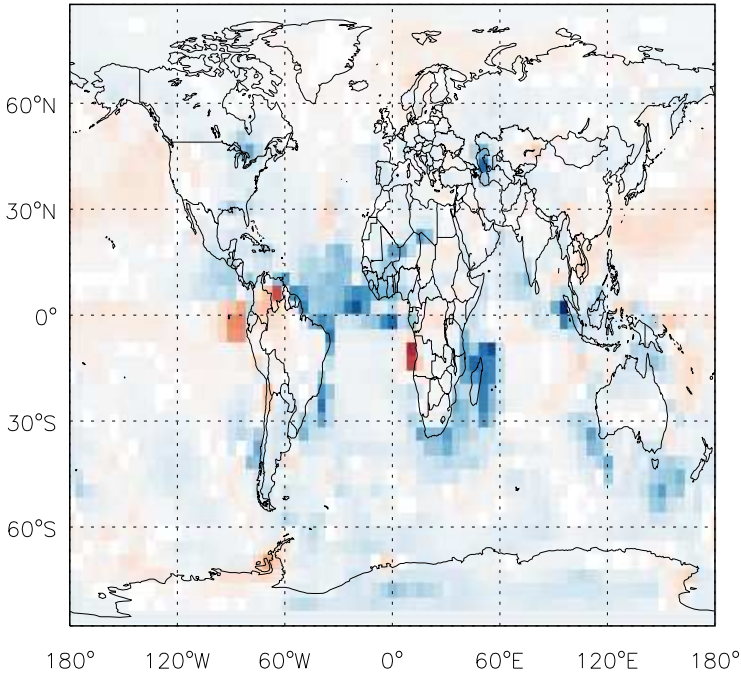


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PROPNN/ Ratio @ 500 hPa for Jan

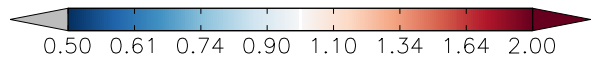
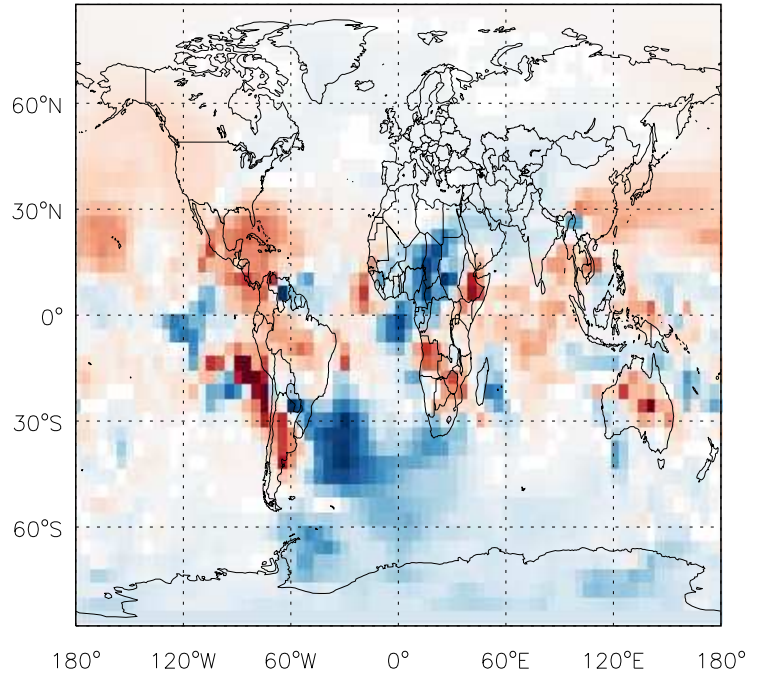


GEOS-Chem Ratio Maps at surface and 500 hPa

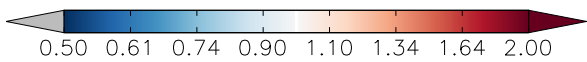
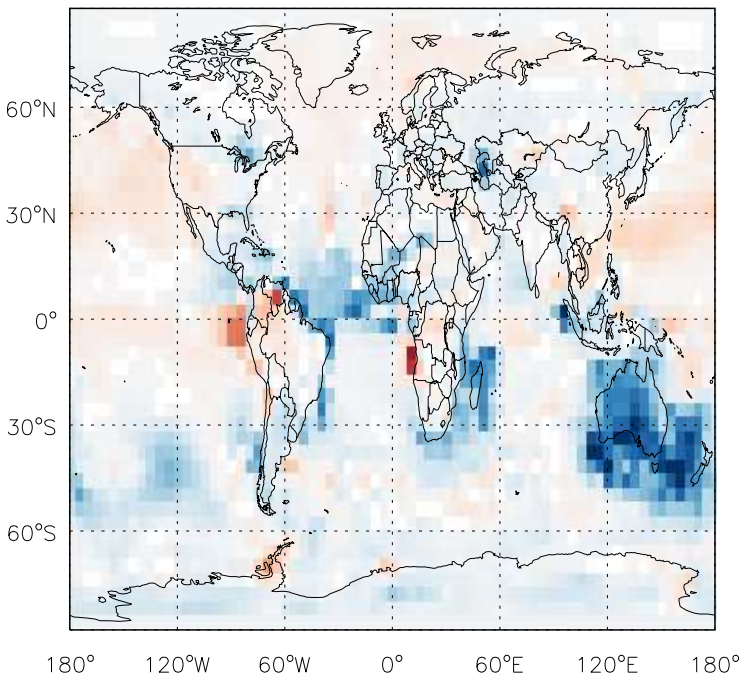
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HAC / Ratio @ Surface for Jan



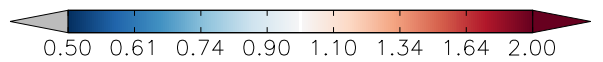
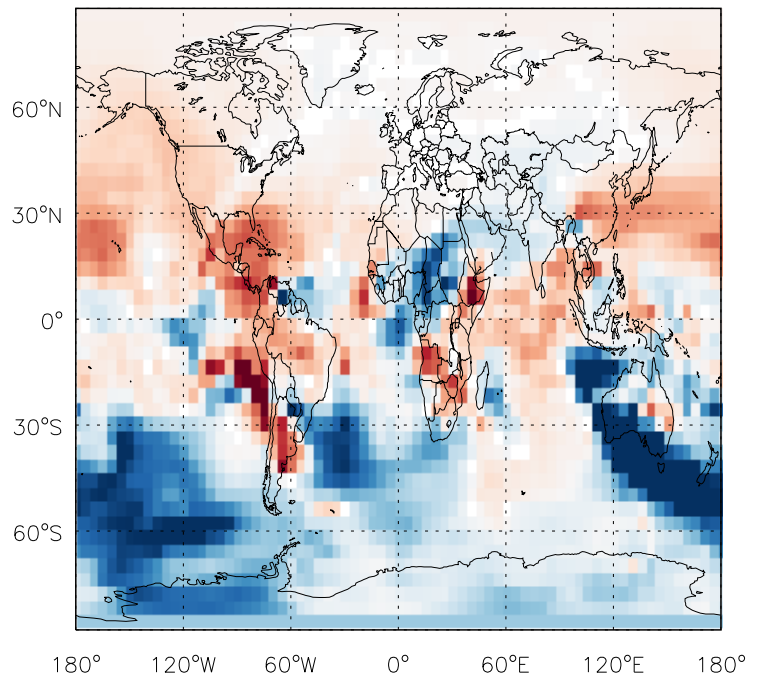
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HAC/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HAC / Ratio @ Surface for Jan

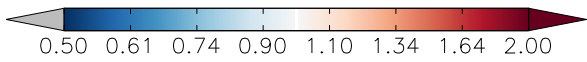
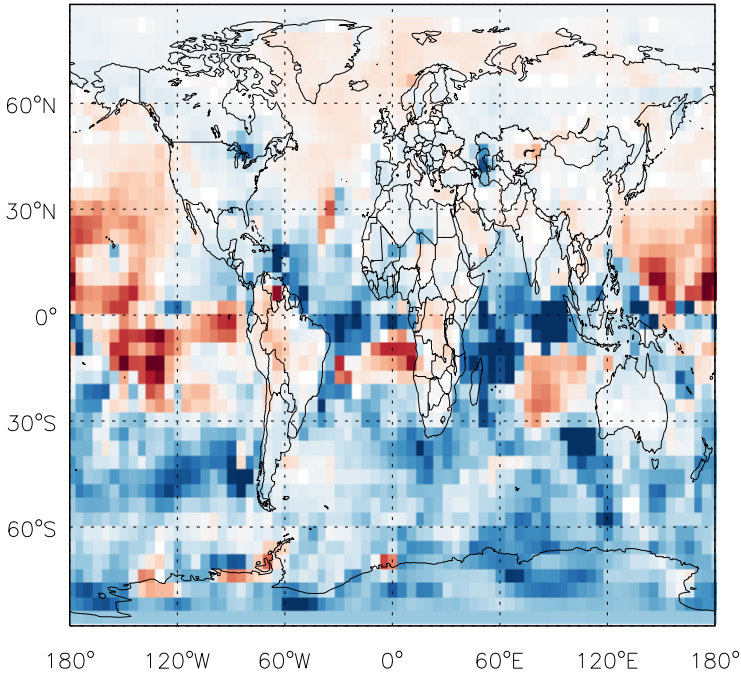


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HAC/ Ratio @ 500 hPa for Jan

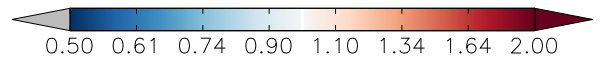
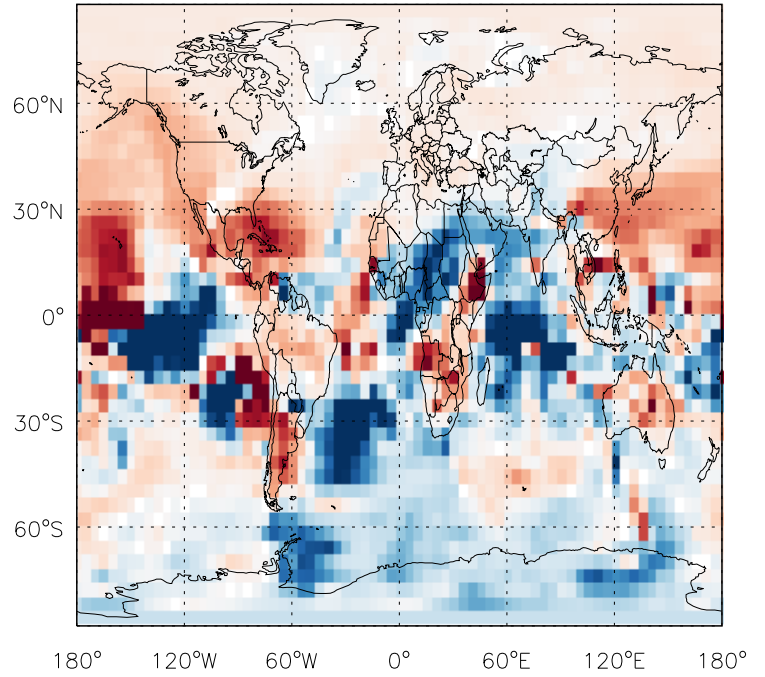


# GEOS-Chem Ratio Maps at surface and 500 hPa

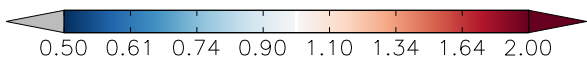
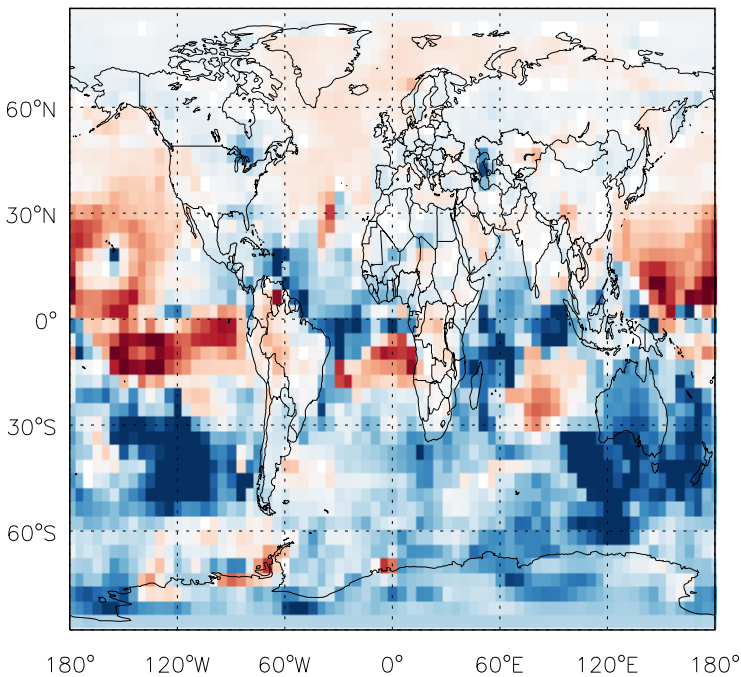
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GLYC / Ratio @ Surface for Jan



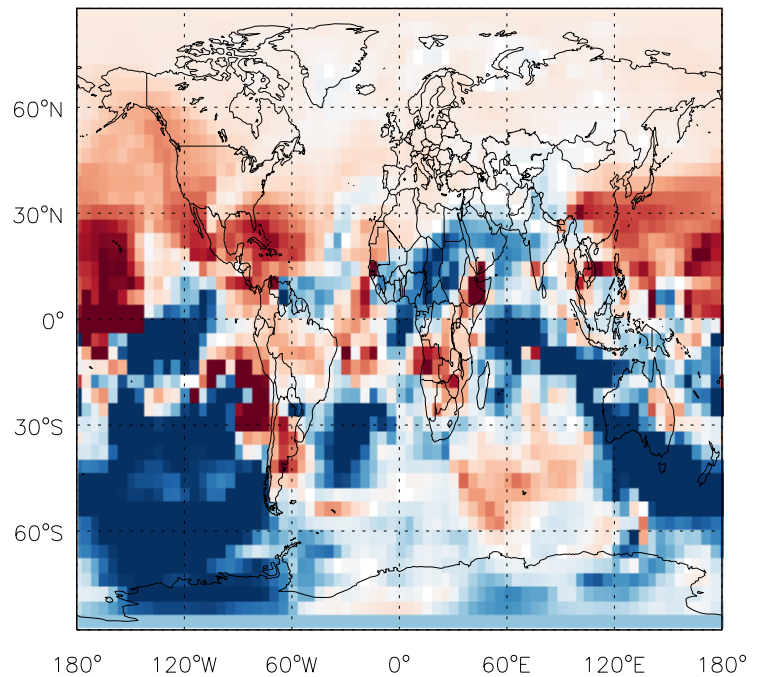
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
GLYC/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
GLYC / Ratio @ Surface for Jan

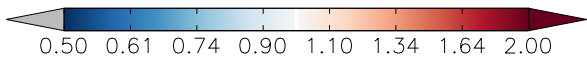
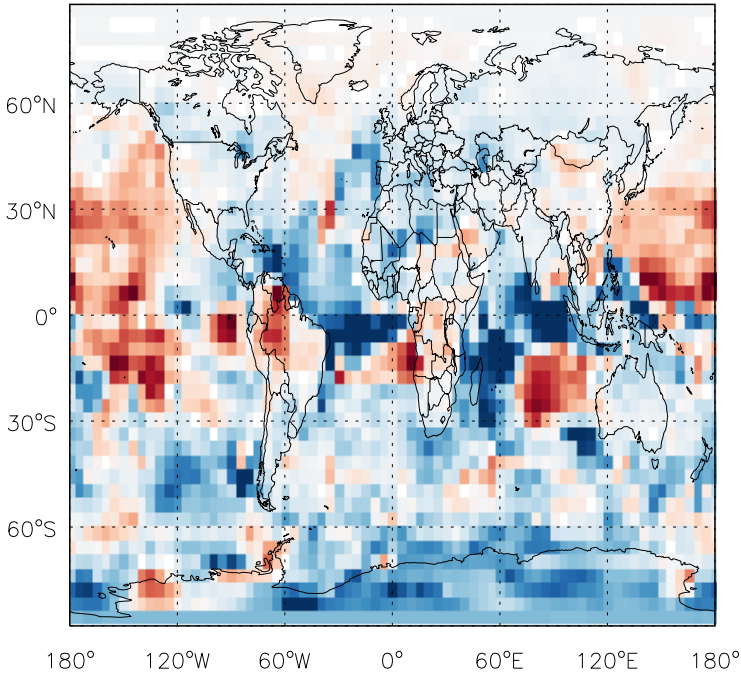


v11-01f-merra2-Run0 / v11-01d-Run1  
GLYC/ Ratio @ 500 hPa for Jan

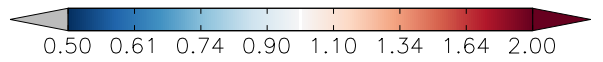
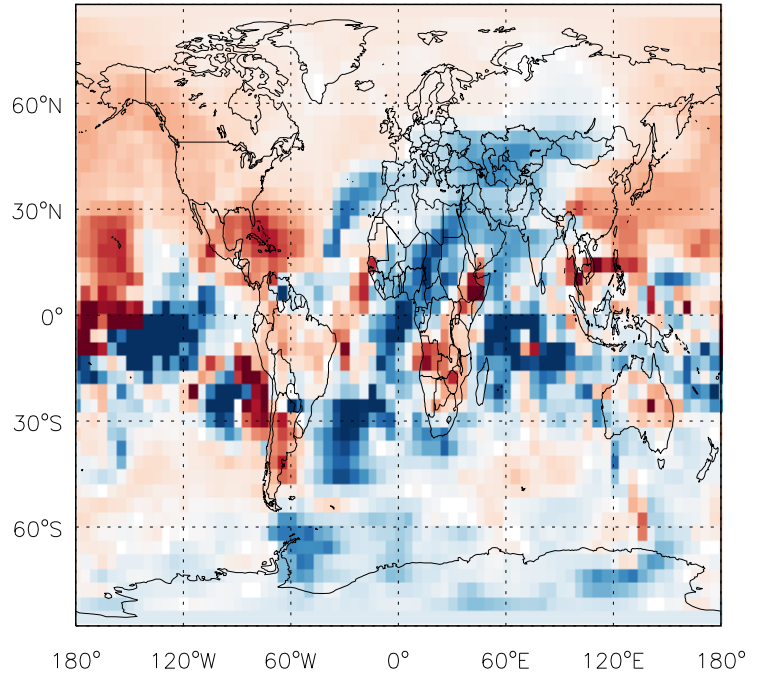


GEOS-Chem Ratio Maps at surface and 500 hPa

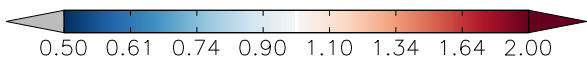
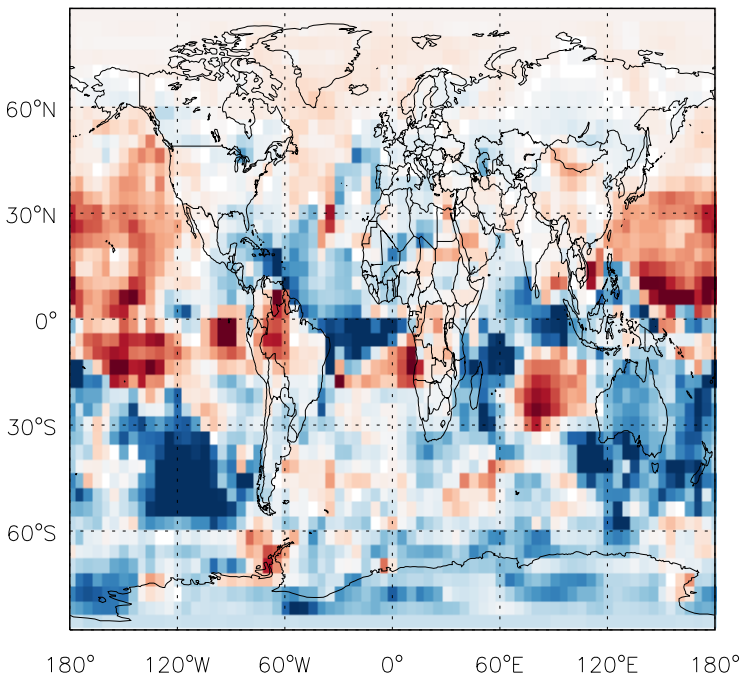
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MMN / Ratio @ Surface for Jan



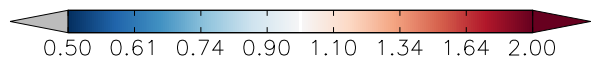
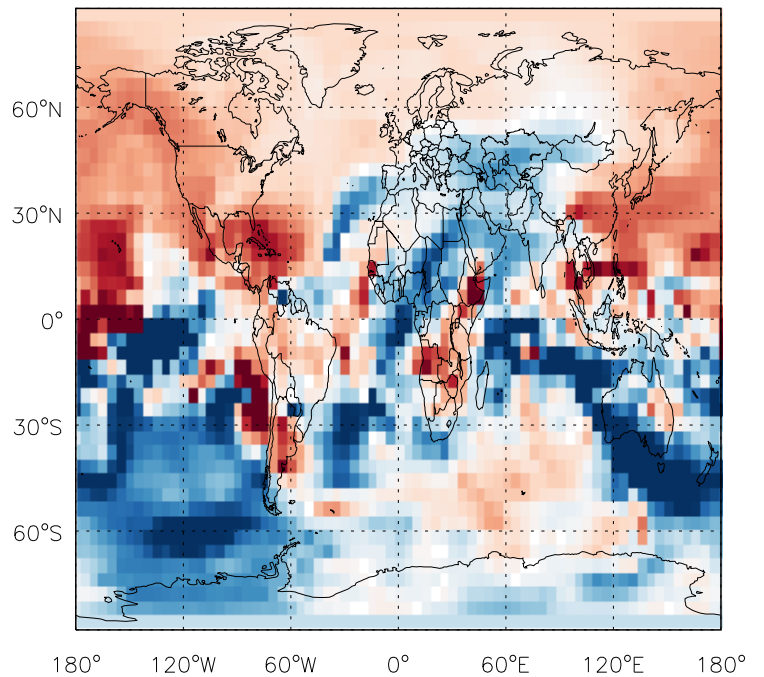
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MMN/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MMN / Ratio @ Surface for Jan

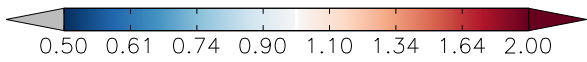
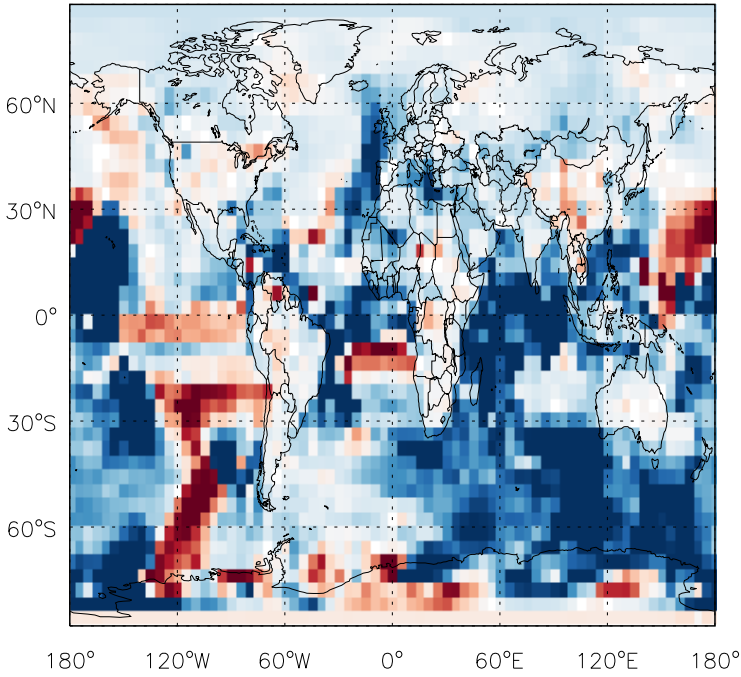


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MMN/ Ratio @ 500 hPa for Jan

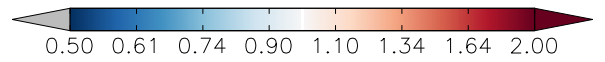
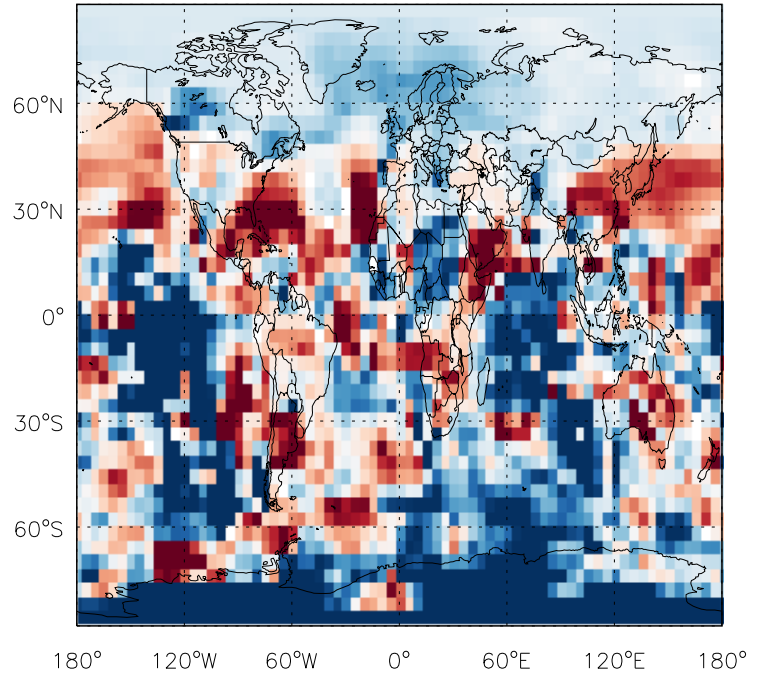


GEOS-Chem Ratio Maps at surface and 500 hPa

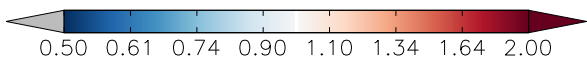
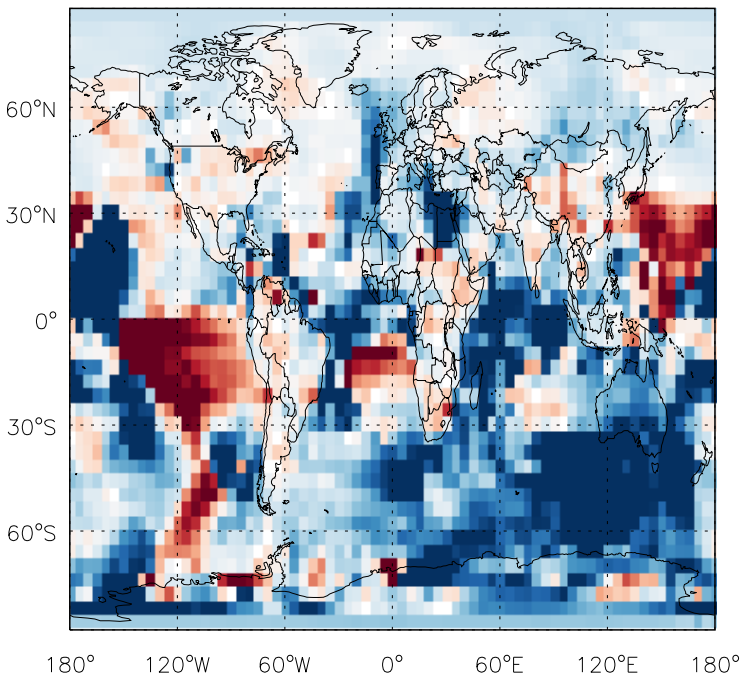
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RIP / Ratio @ Surface for Jan



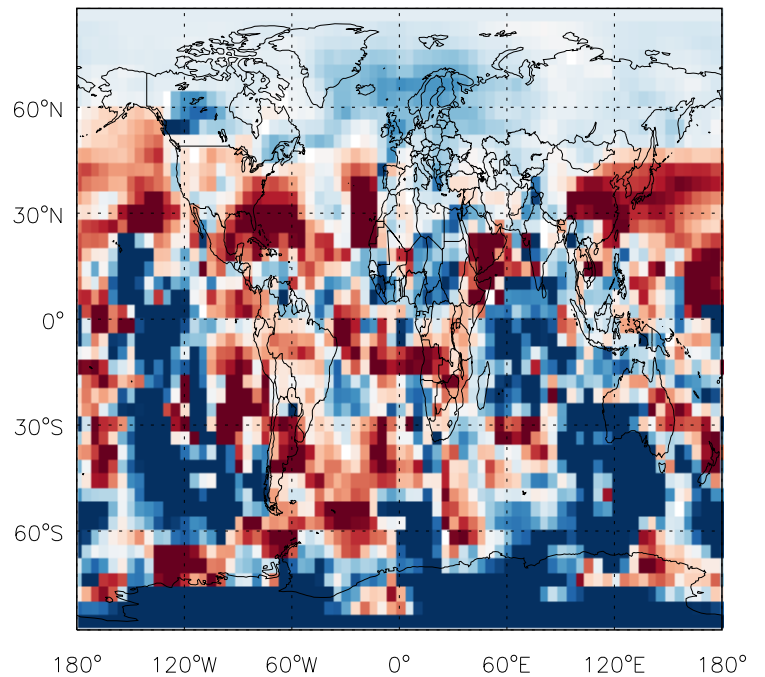
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
RIP/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
RIP / Ratio @ Surface for Jan

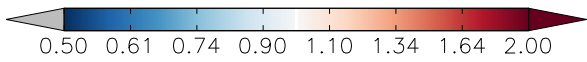
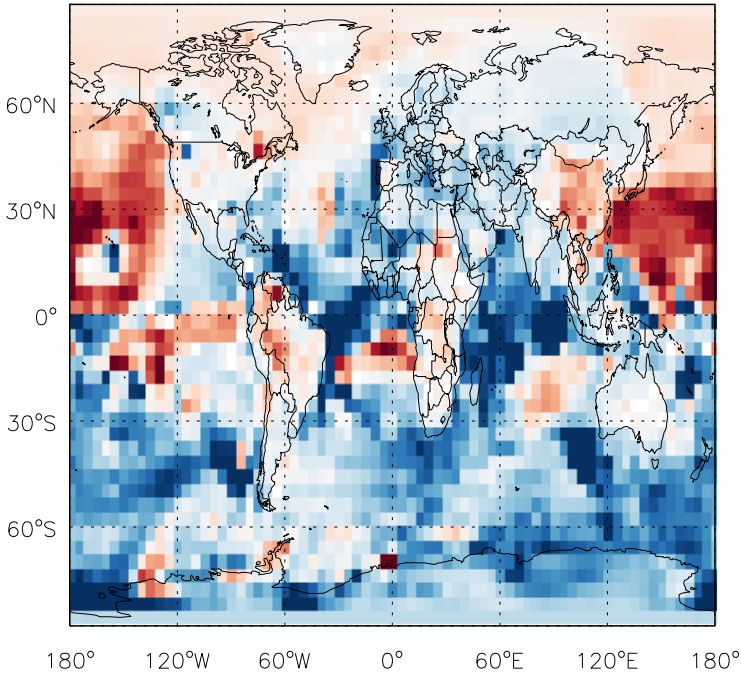


v11-01f-merra2-Run0 / v11-01d-Run1  
RIP/ Ratio @ 500 hPa for Jan

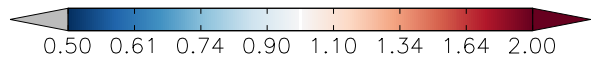
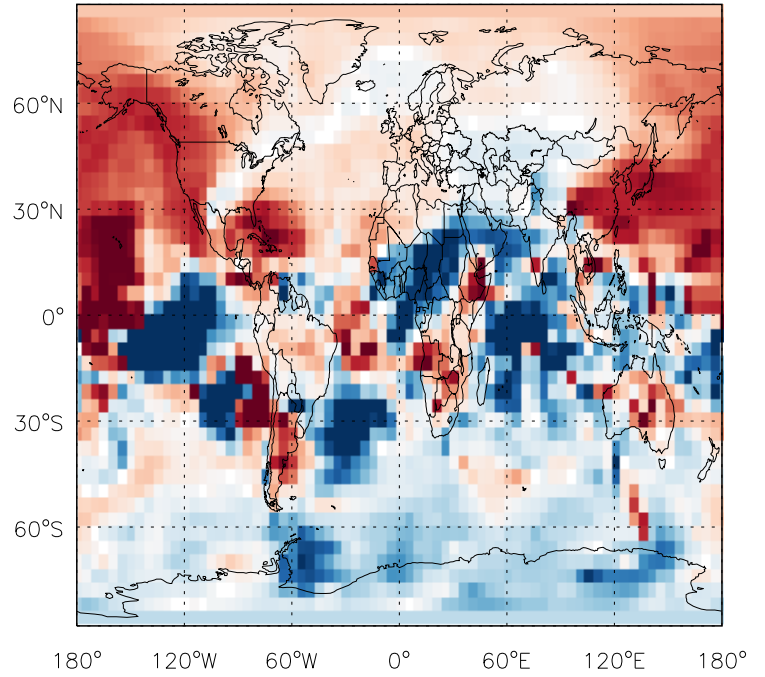


GEOS-Chem Ratio Maps at surface and 500 hPa

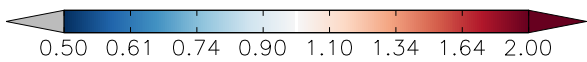
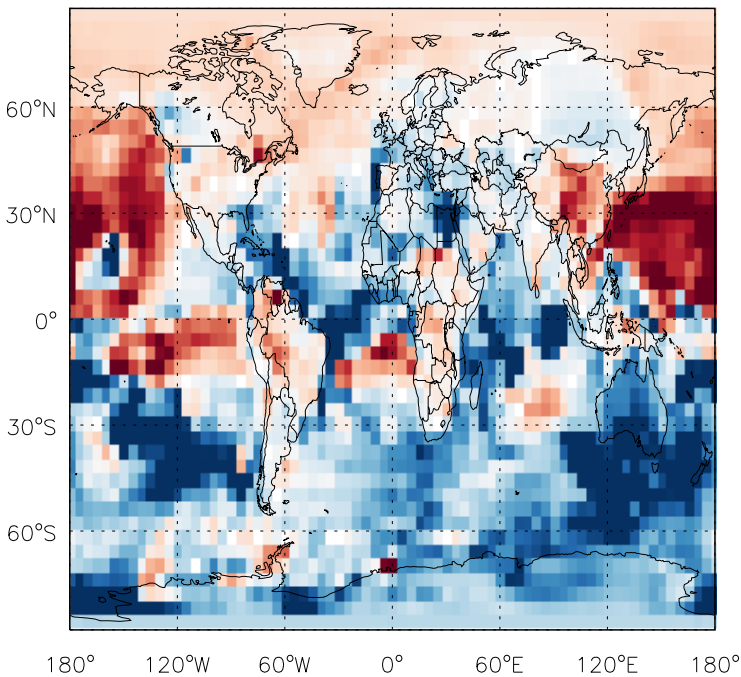
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
IEPOX / Ratio @ Surface for Jan



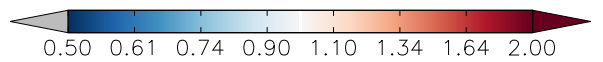
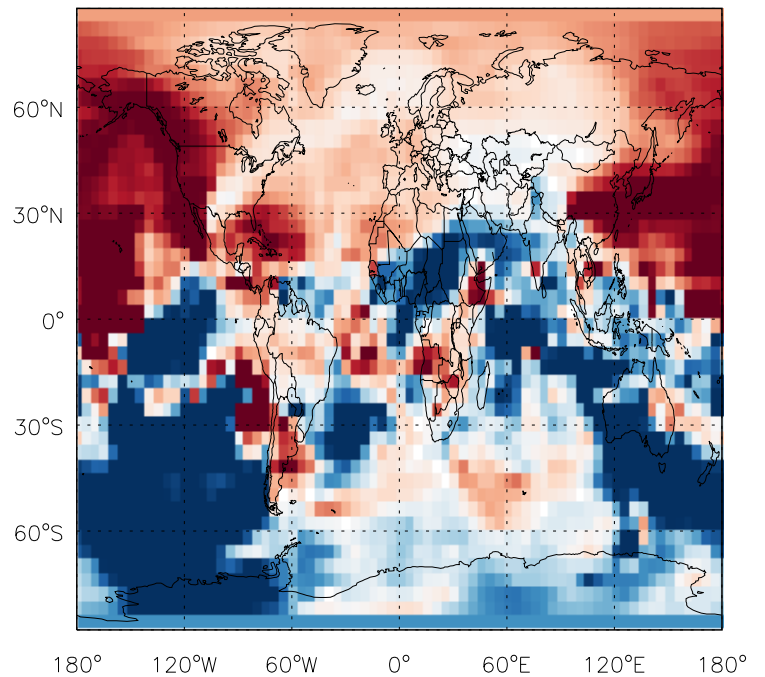
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
IEPOX/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
IEPOX / Ratio @ Surface for Jan

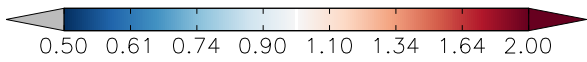
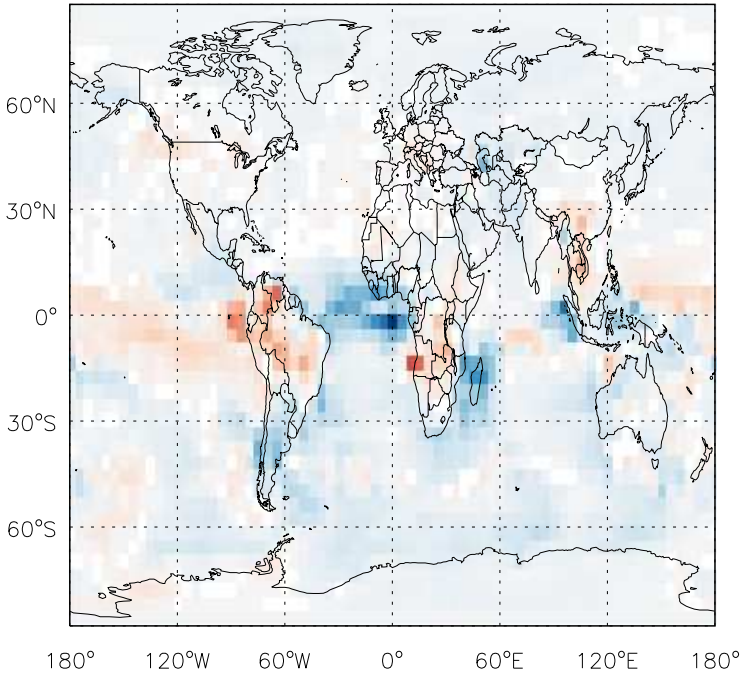


v11-01f-merra2-Run0 / v11-01d-Run1  
IEPOX/ Ratio @ 500 hPa for Jan

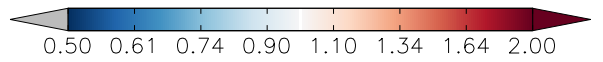
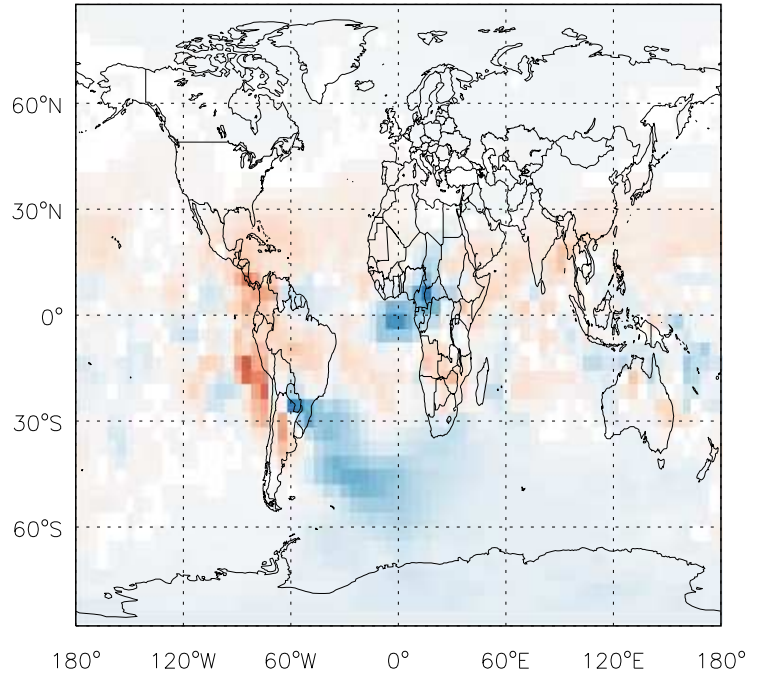


GEOS-Chem Ratio Maps at surface and 500 hPa

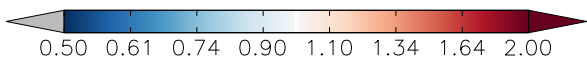
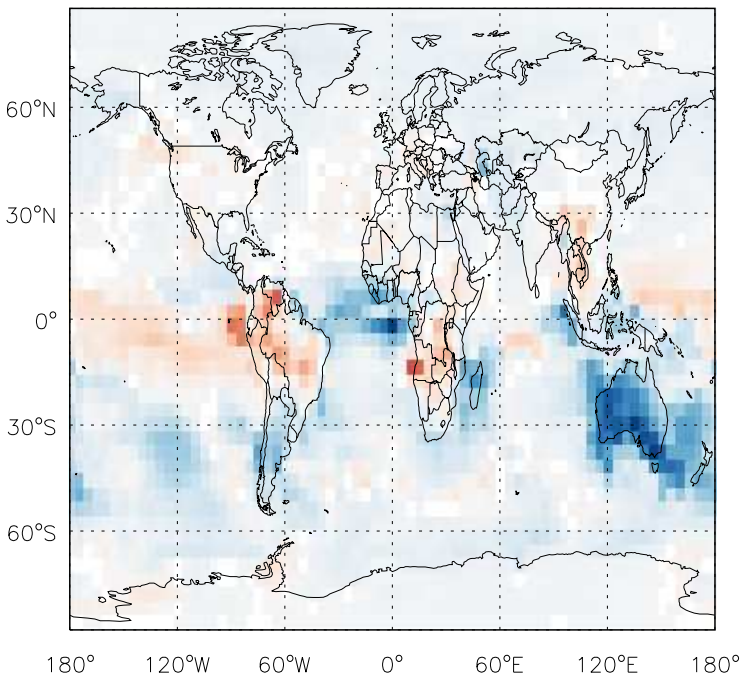
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MAP / Ratio @ Surface for Jan



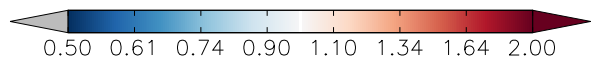
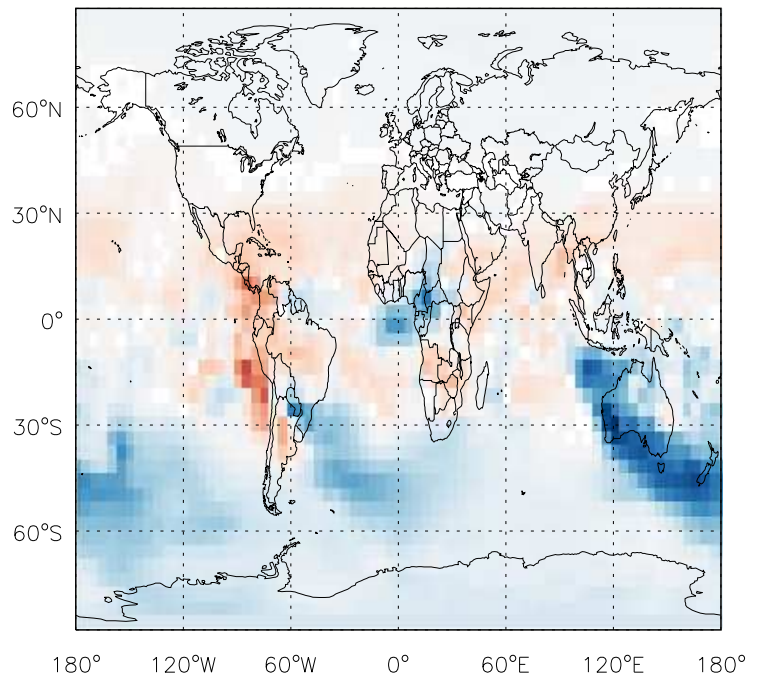
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
MAP / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
MAP / Ratio @ Surface for Jan

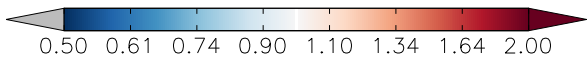
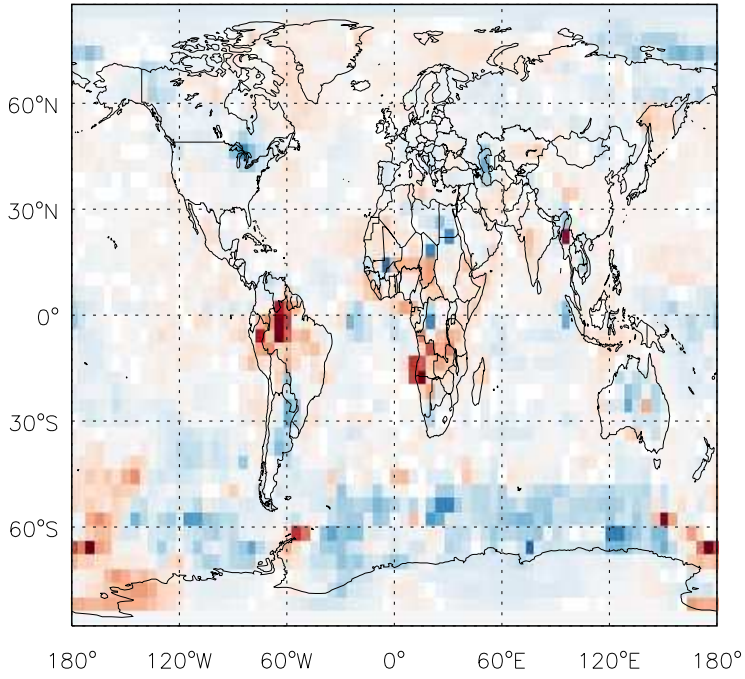


v11-01f-merra2-Run0 / v11-01d-Run1  
MAP / Ratio @ 500 hPa for Jan

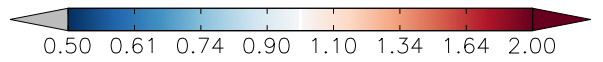
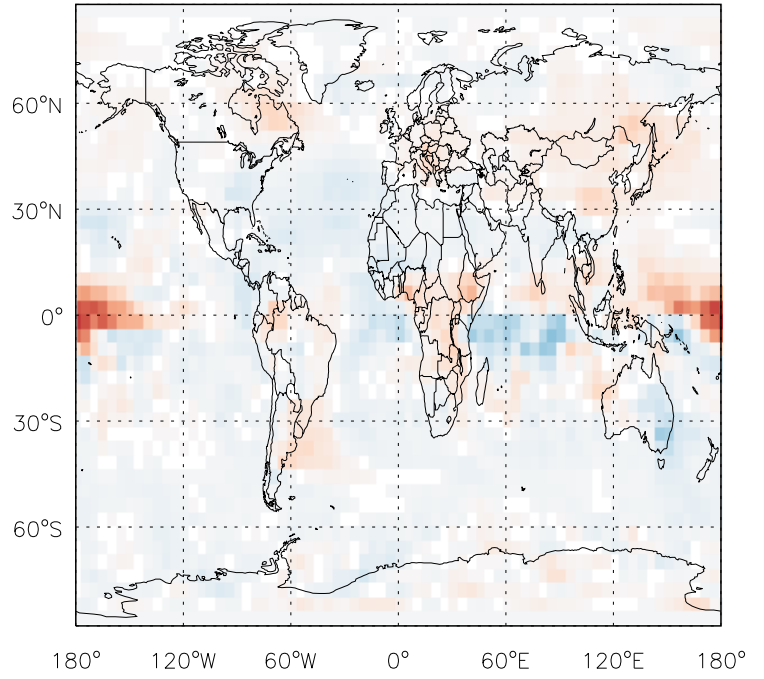


GEOS-Chem Ratio Maps at surface and 500 hPa

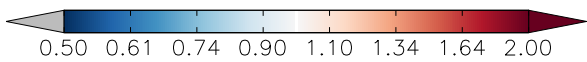
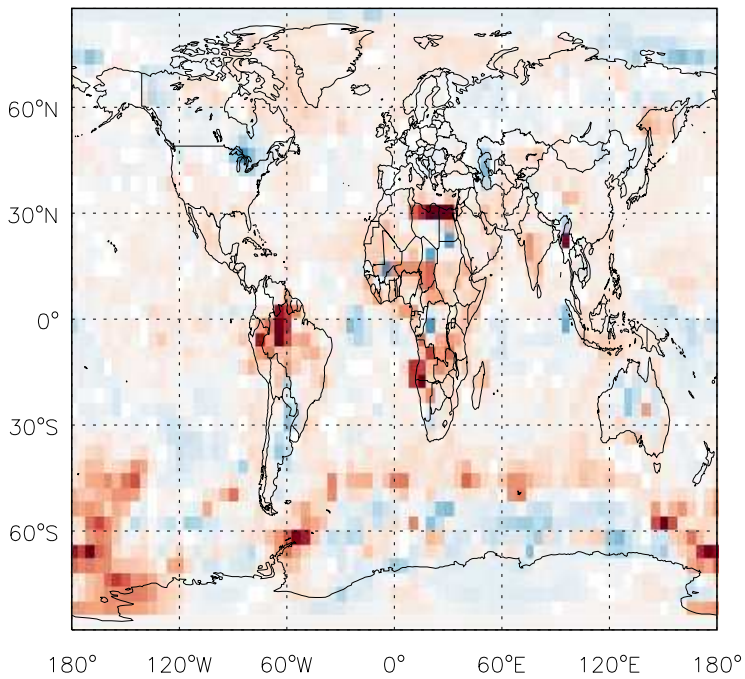
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO2 / Ratio @ Surface for Jan



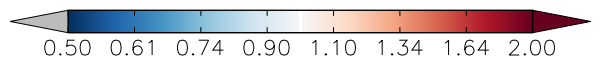
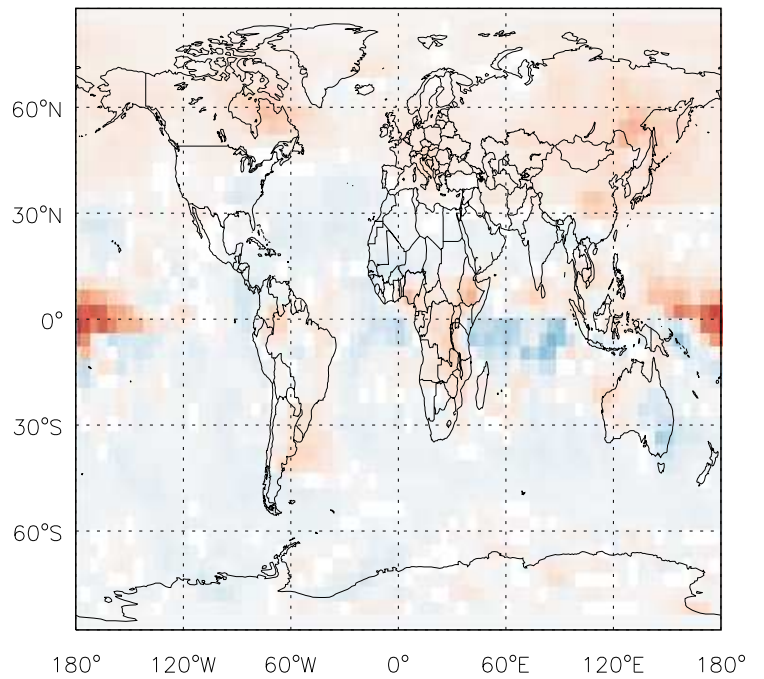
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NO2 / Ratio @ Surface for Jan



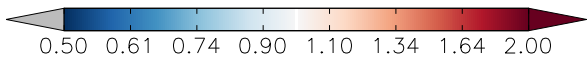
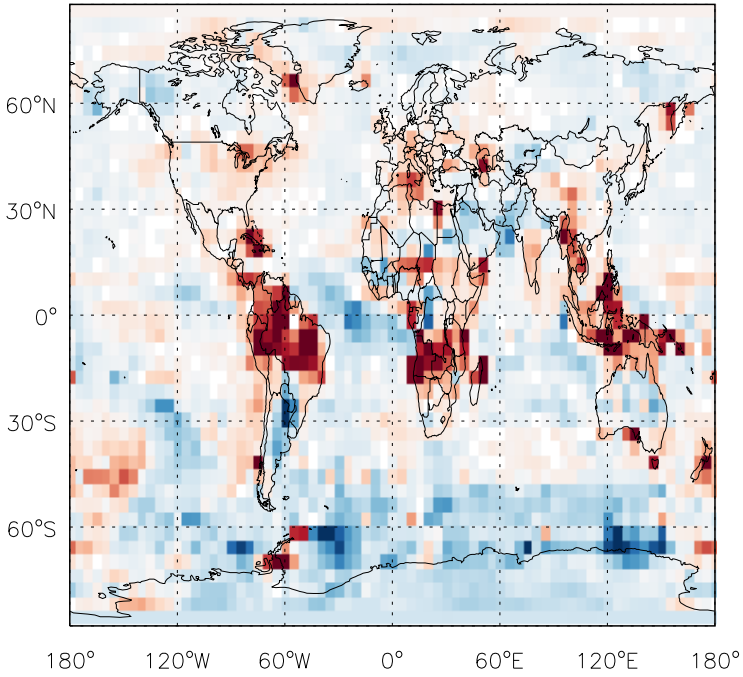
v11-01f-merra2-Run0 / v11-01d-Run1  
NO2 / Ratio @ 500 hPa for Jan



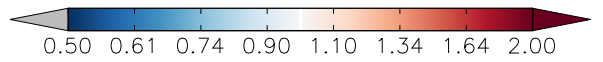
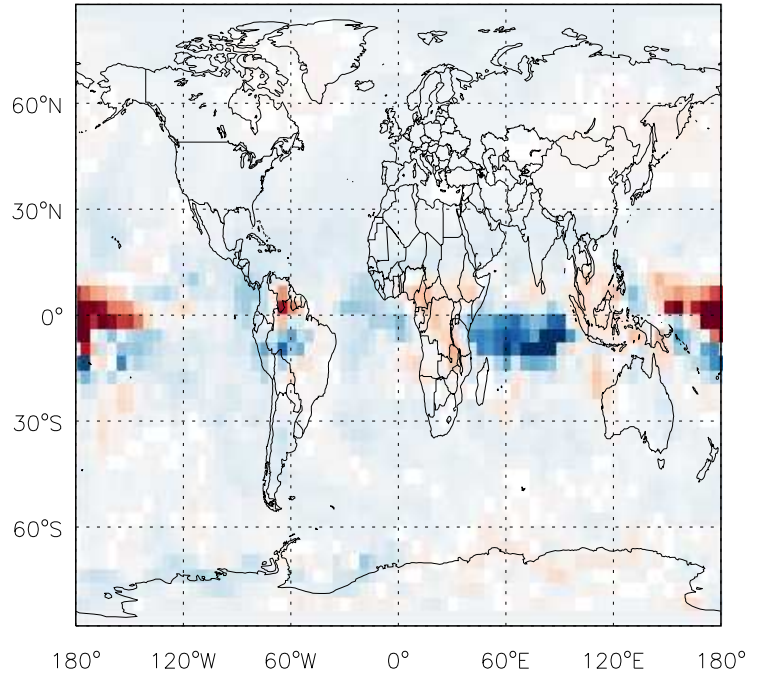


GEOS-Chem Ratio Maps at surface and 500 hPa

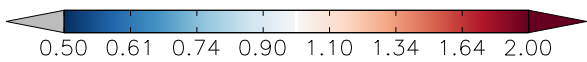
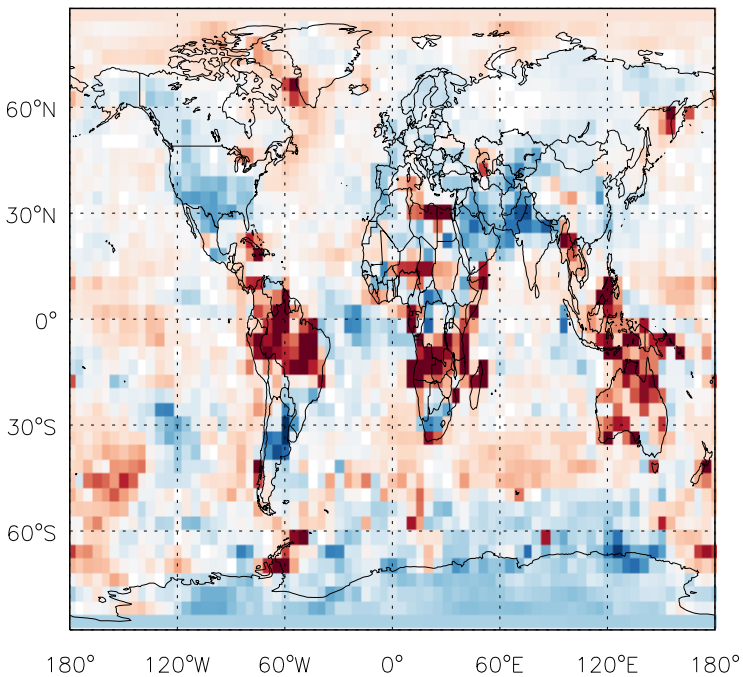
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO3 / Ratio @ Surface for Jan



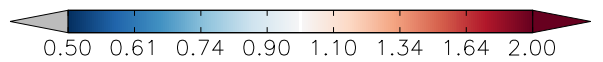
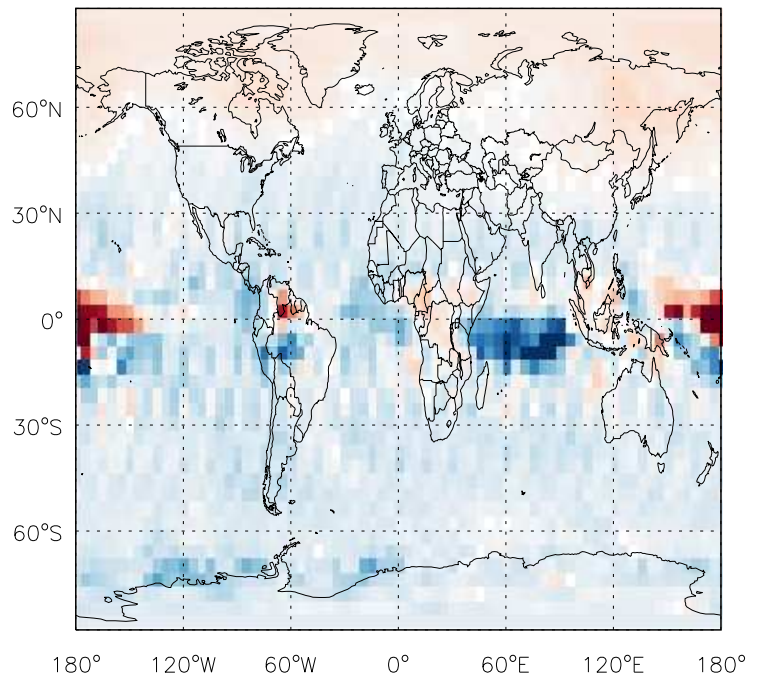
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
NO3/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
NO3 / Ratio @ Surface for Jan

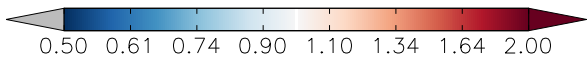
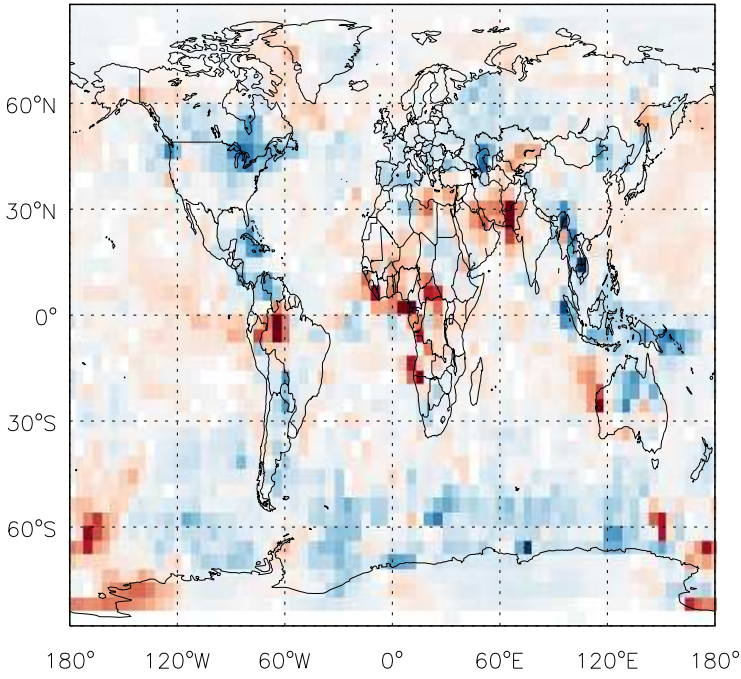


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NO3/ Ratio @ 500 hPa for Jan

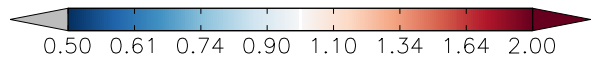
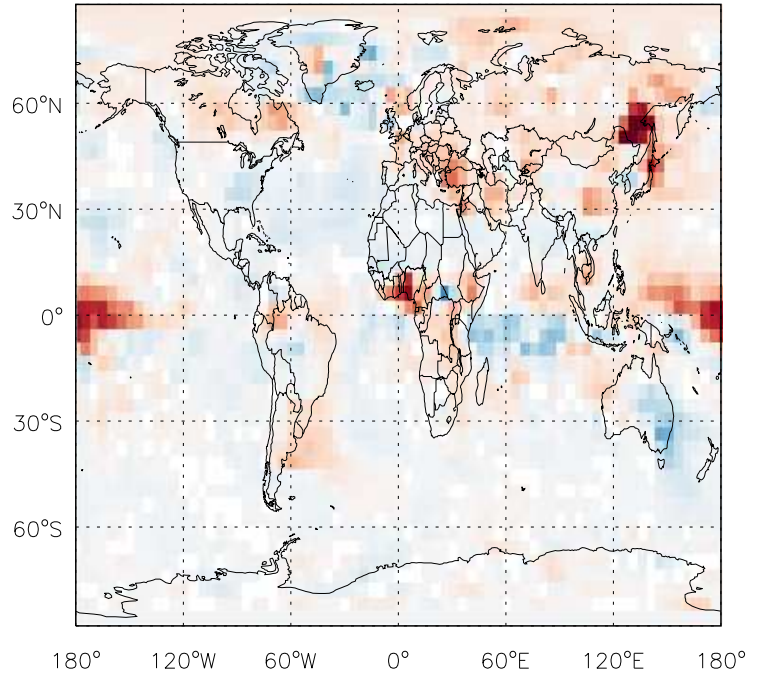


# GEOS-Chem Ratio Maps at surface and 500 hPa

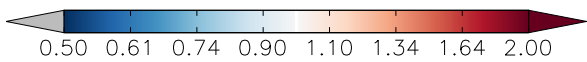
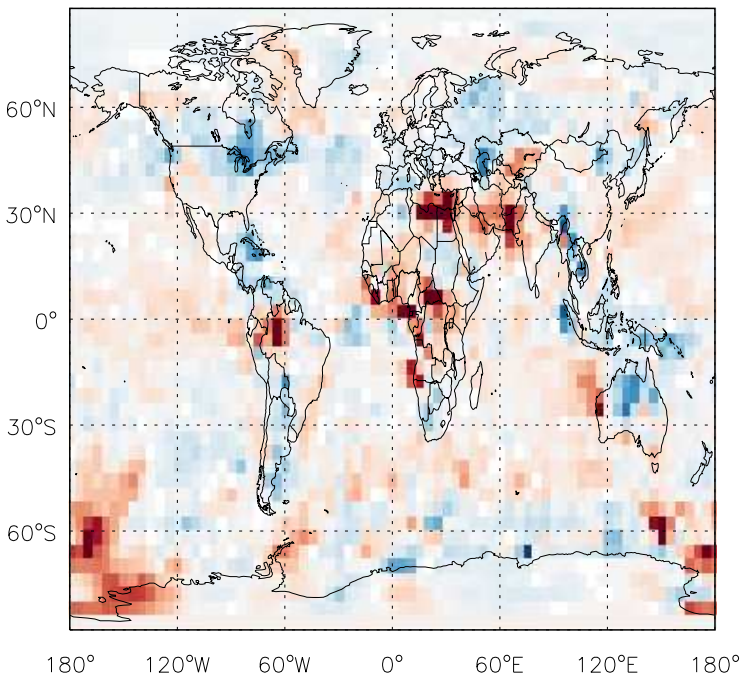
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HN02 / Ratio @ Surface for Jan



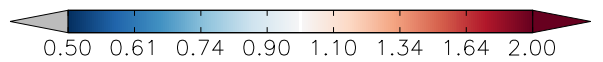
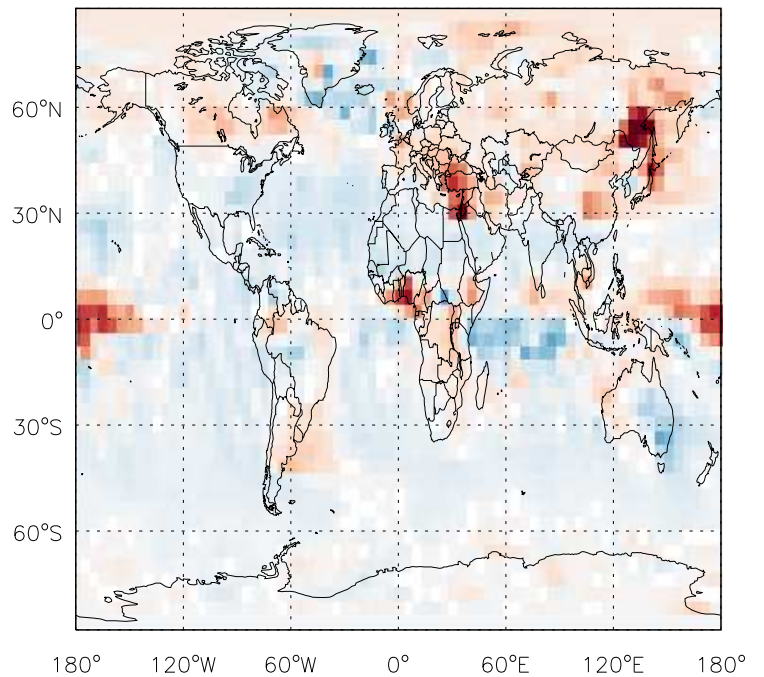
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HN02/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HN02 / Ratio @ Surface for Jan

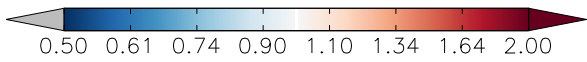
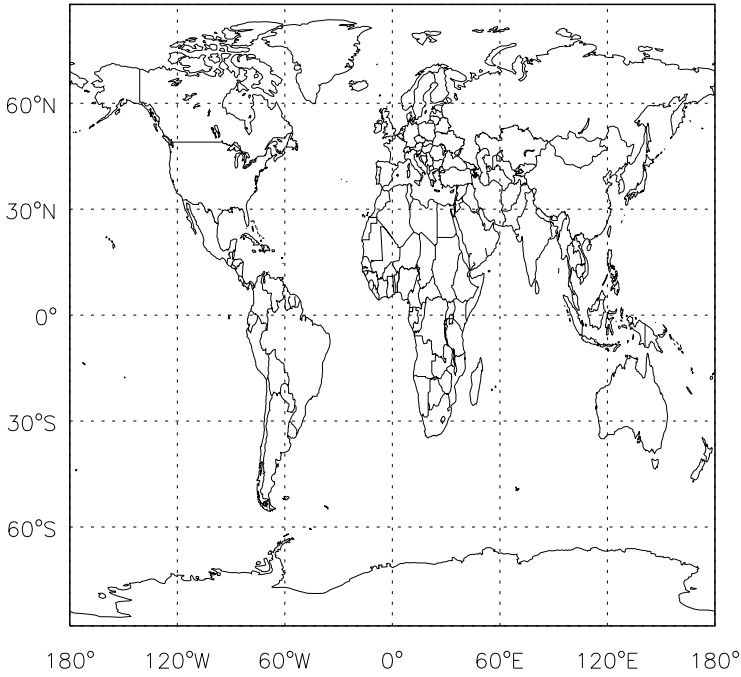


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HN02/ Ratio @ 500 hPa for Jan

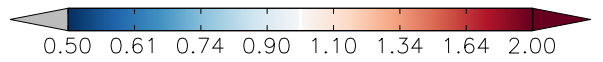
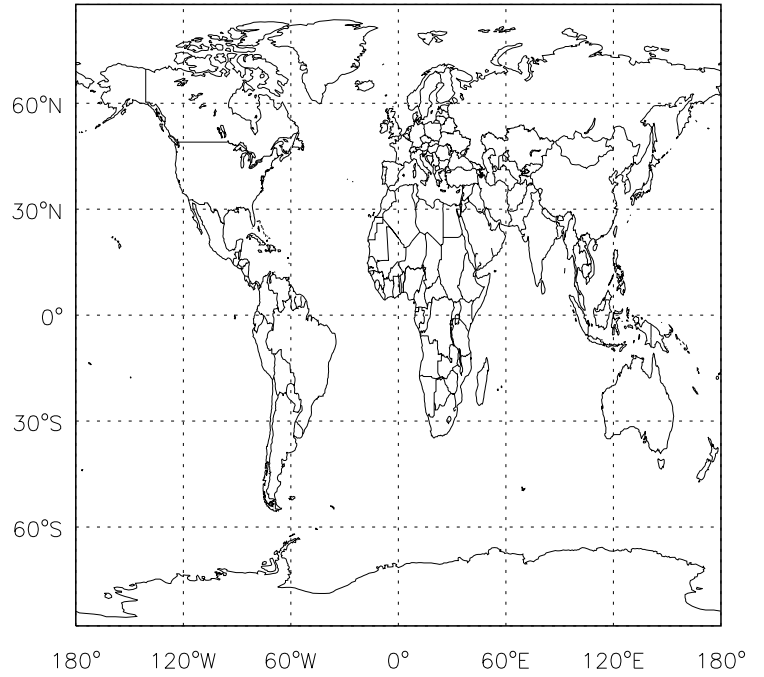


GEOS-Chem Ratio Maps at surface and 500 hPa

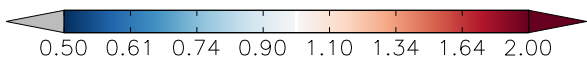
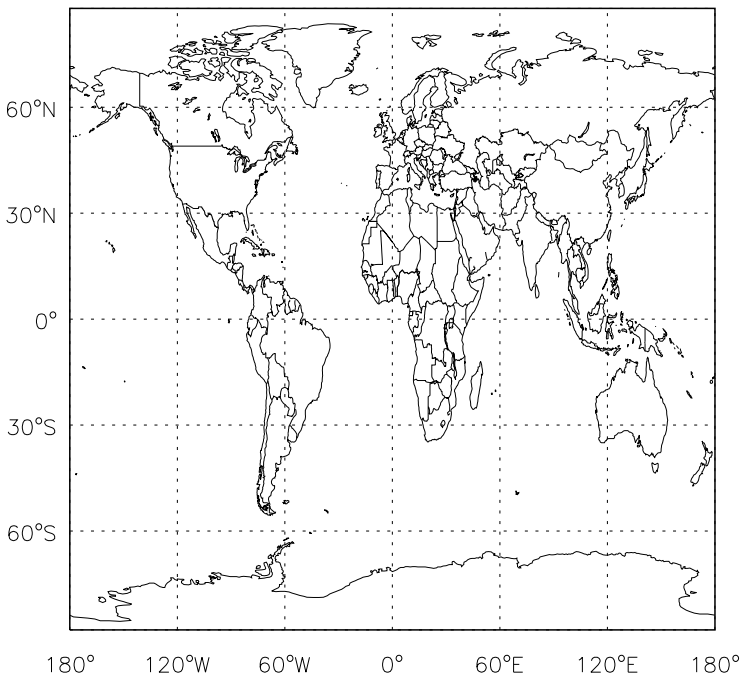
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
N2O / Ratio @ Surface for Jan



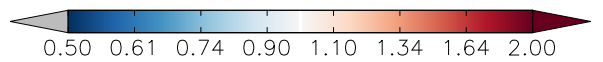
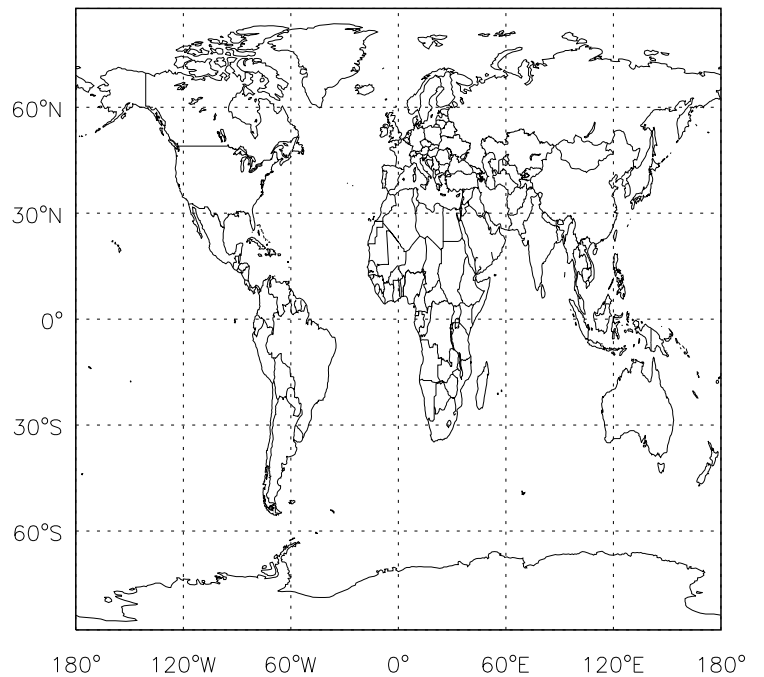
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
N2O/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
N2O / Ratio @ Surface for Jan

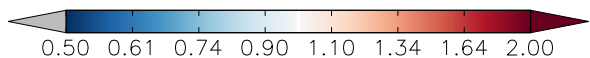
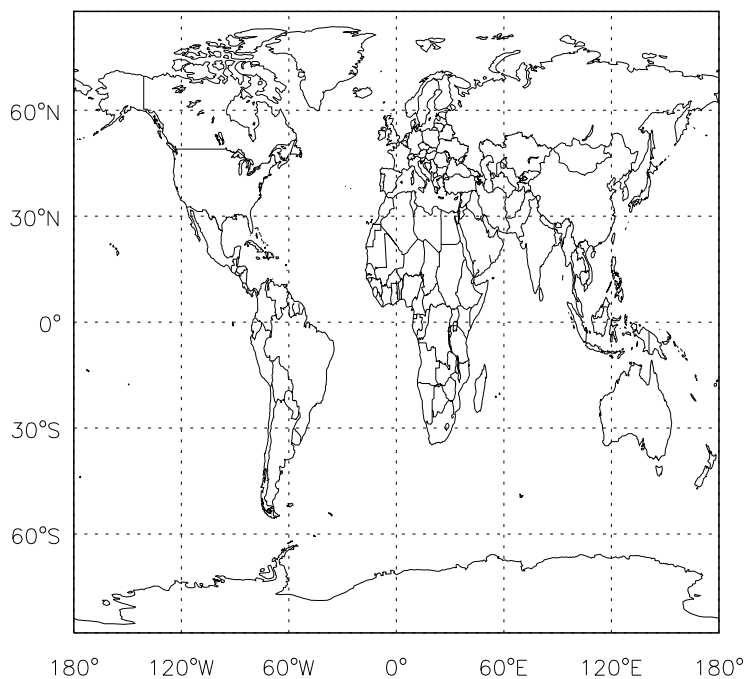


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N2O/ Ratio @ 500 hPa for Jan

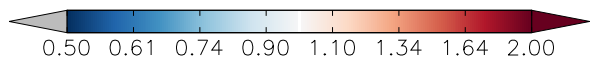
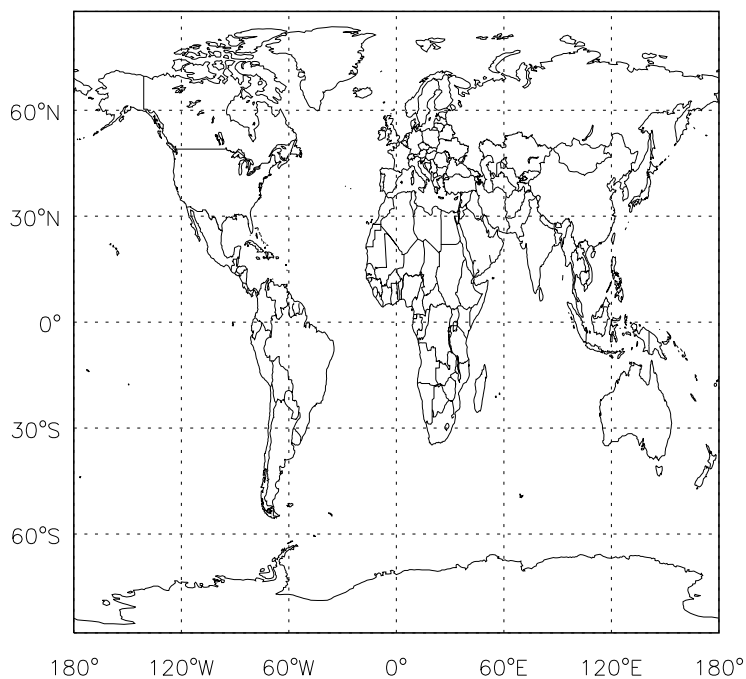


GEOS-Chem Ratio Maps at surface and 500 hPa

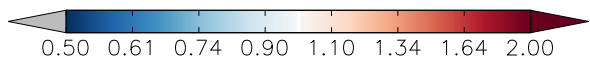
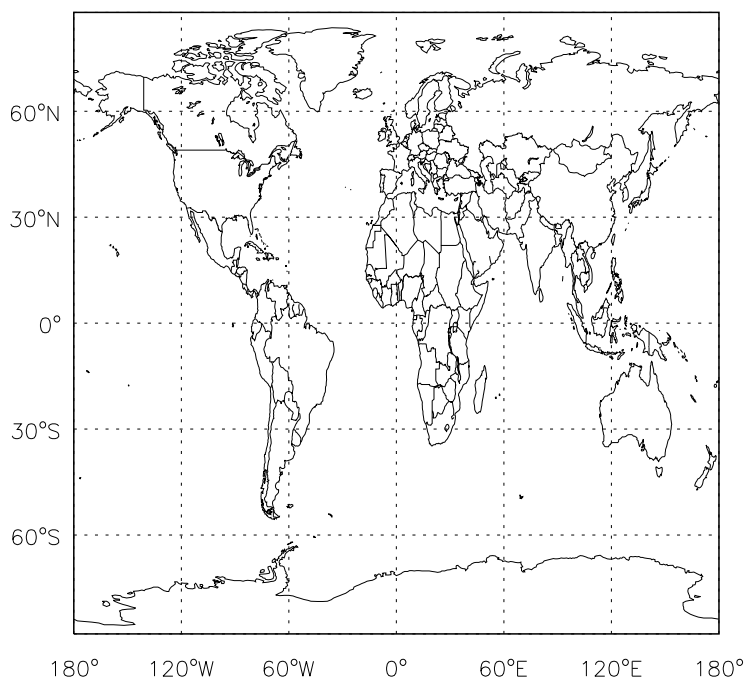
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCS / Ratio @ Surface for Jan



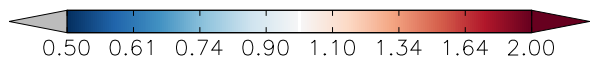
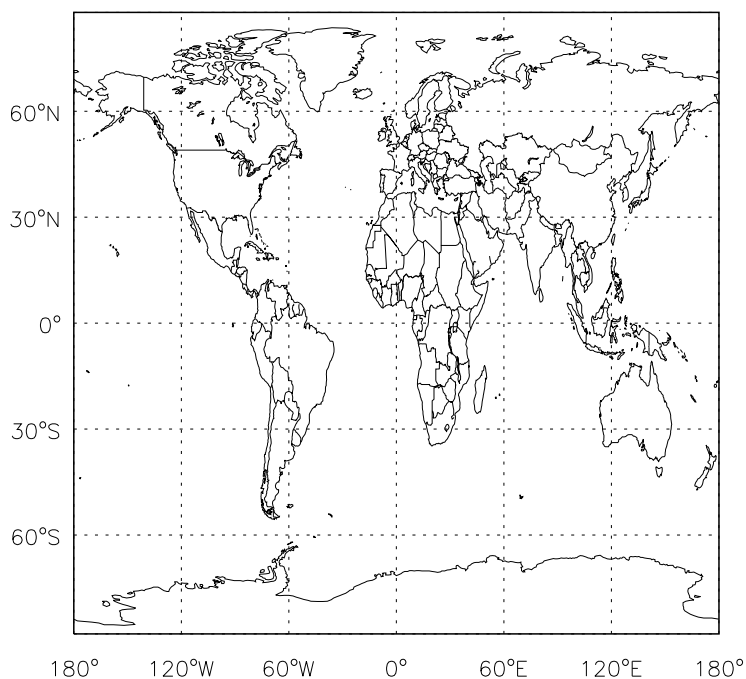
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCS/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
OCS / Ratio @ Surface for Jan

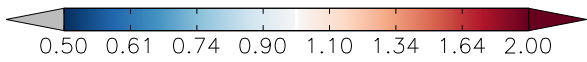
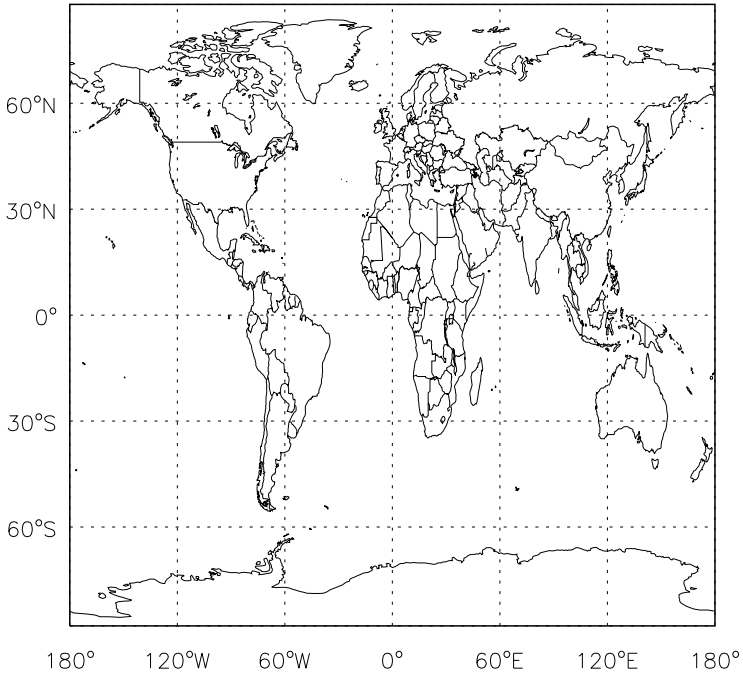


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OCS/ Ratio @ 500 hPa for Jan

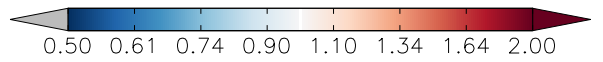
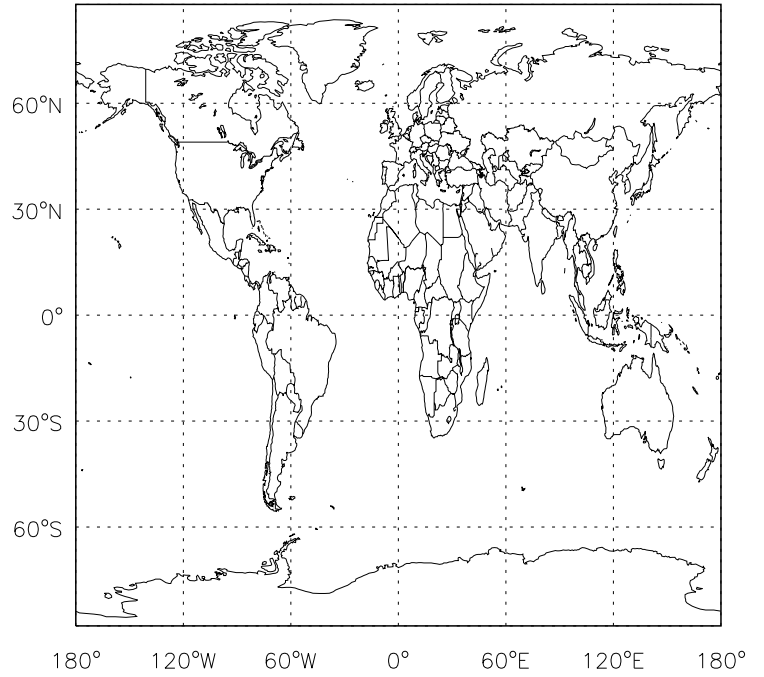


# GEOS-Chem Ratio Maps at surface and 500 hPa

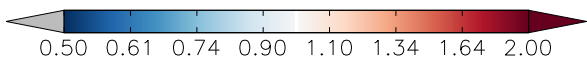
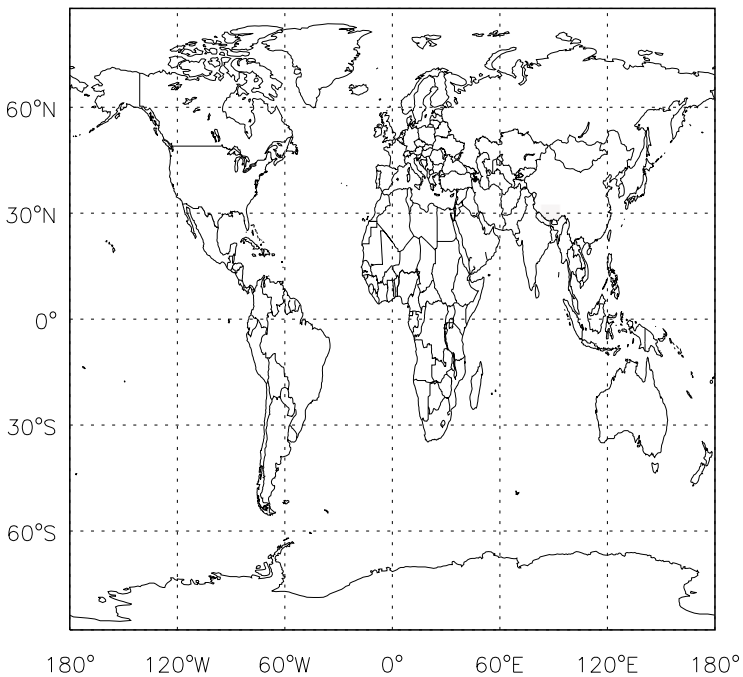
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CH4 / Ratio @ Surface for Jan



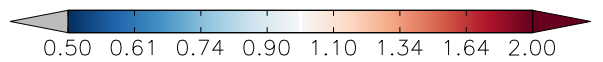
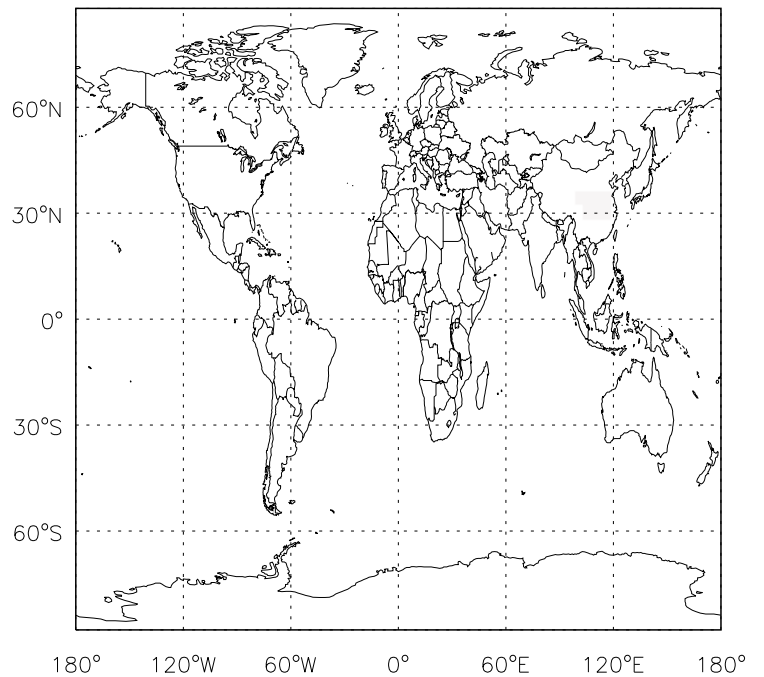
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH4/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CH4 / Ratio @ Surface for Jan

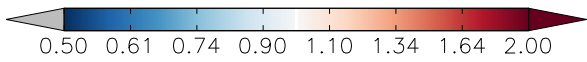
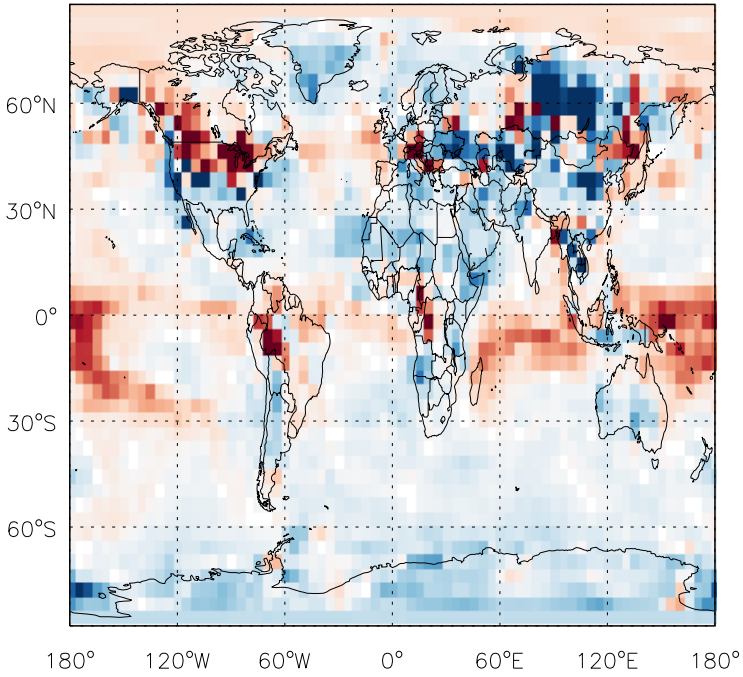


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CH4/ Ratio @ 500 hPa for Jan

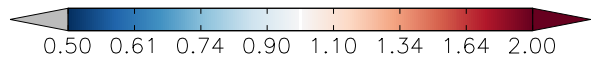
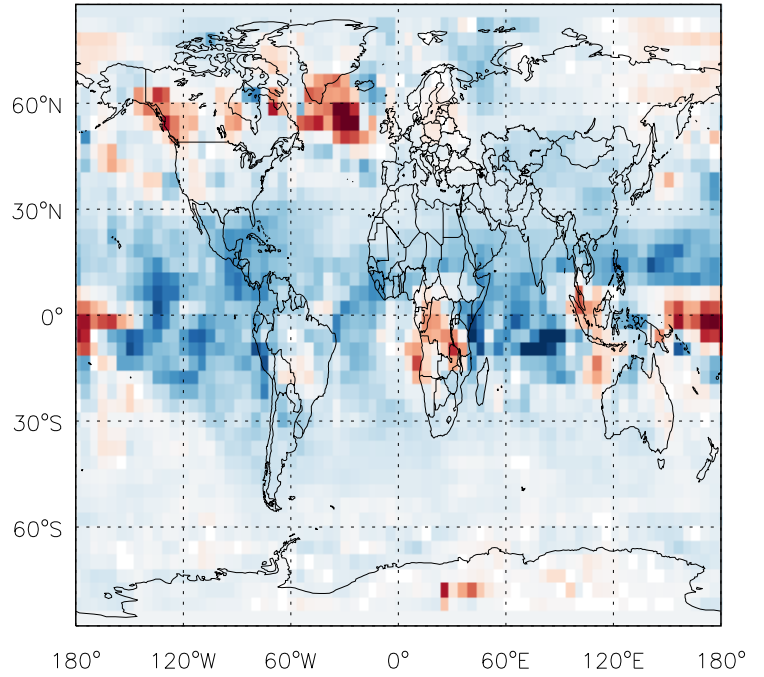


GEOS-Chem Ratio Maps at surface and 500 hPa

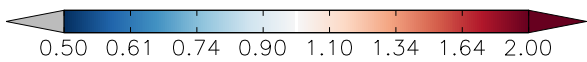
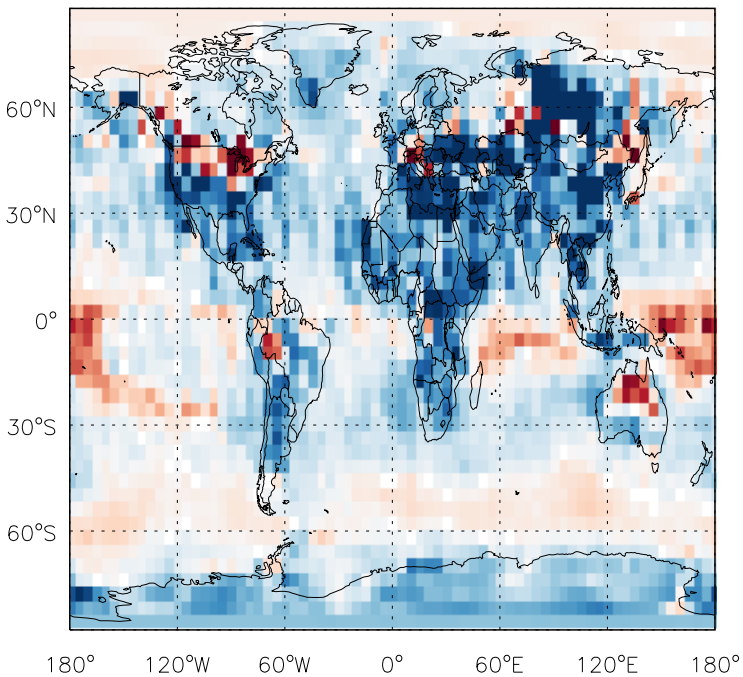
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BrCl / Ratio @ Surface for Jan



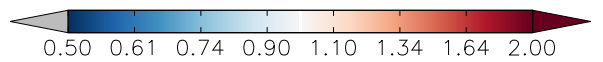
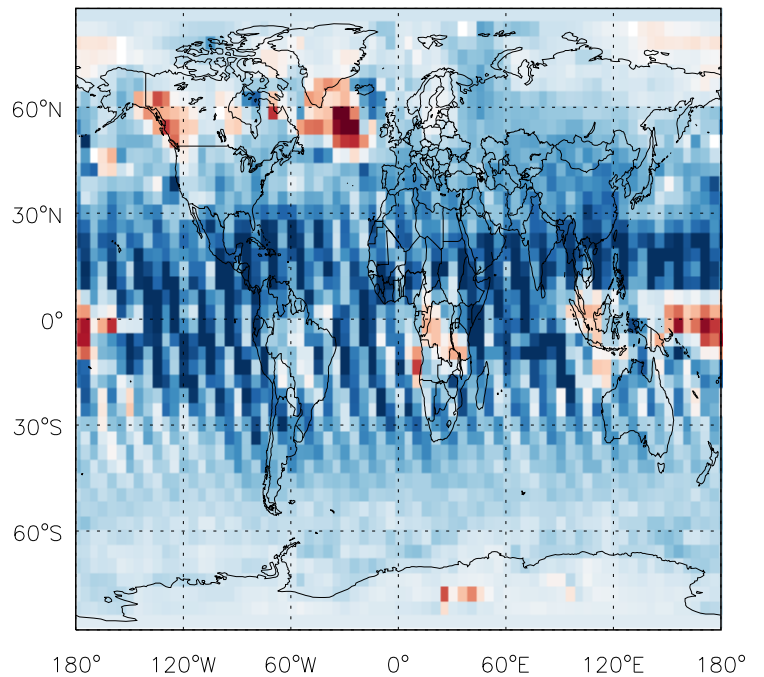
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
BrCl / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
BrCl / Ratio @ Surface for Jan



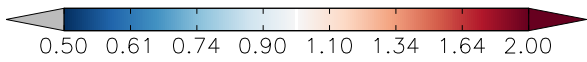
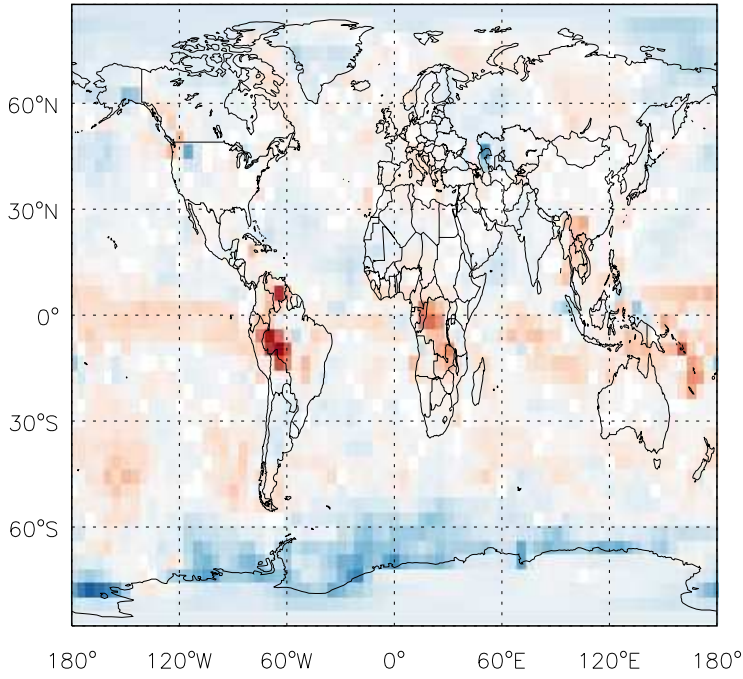
v11-01f-merra2-Run0 / v11-01d-Run1  
BrCl / Ratio @ 500 hPa for Jan



# GEOS-Chem Ratio Maps at surface and 500 hPa

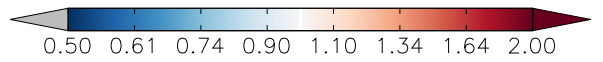
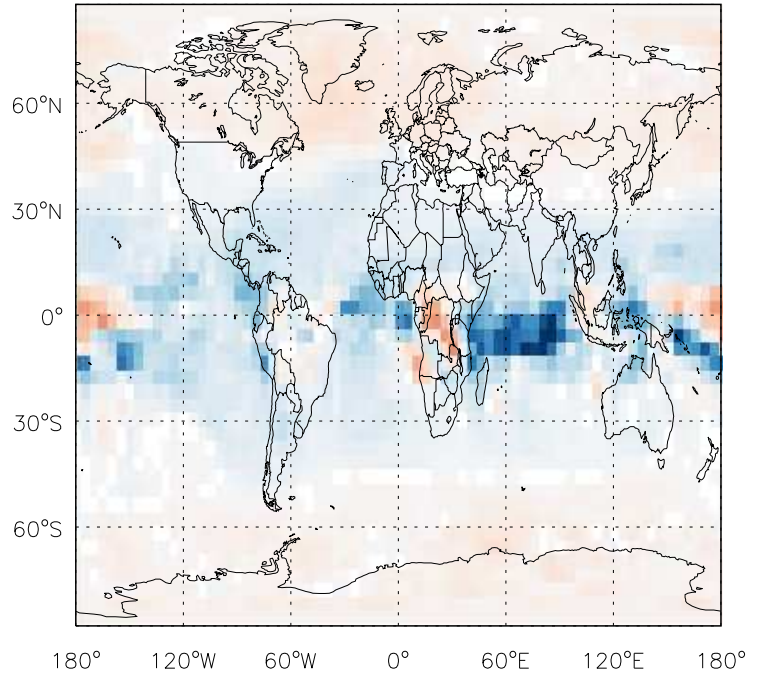
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

HCl / Ratio @ Surface for Jan



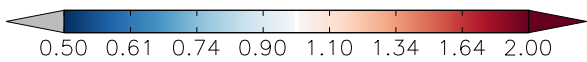
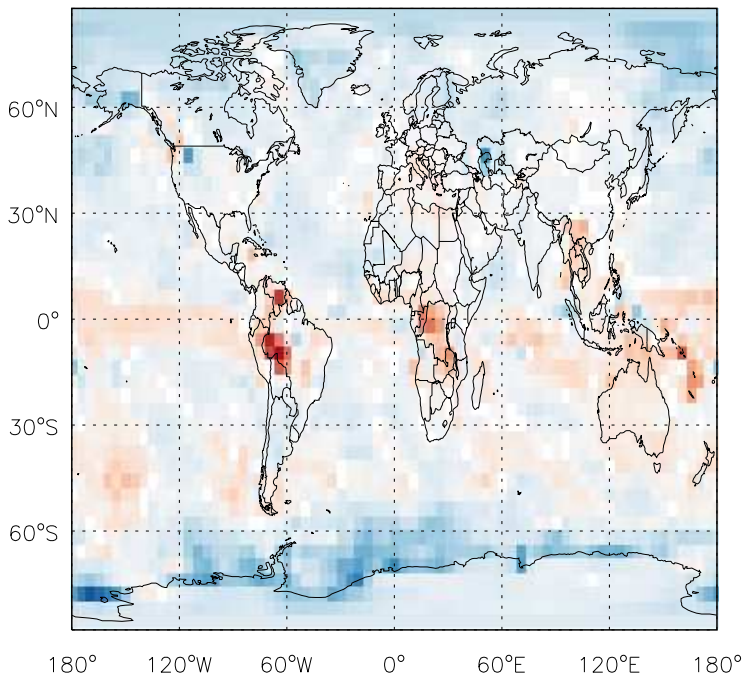
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

HCl/ Ratio @ 500 hPa for Jan



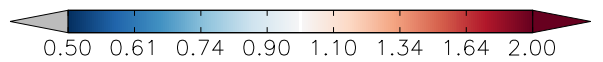
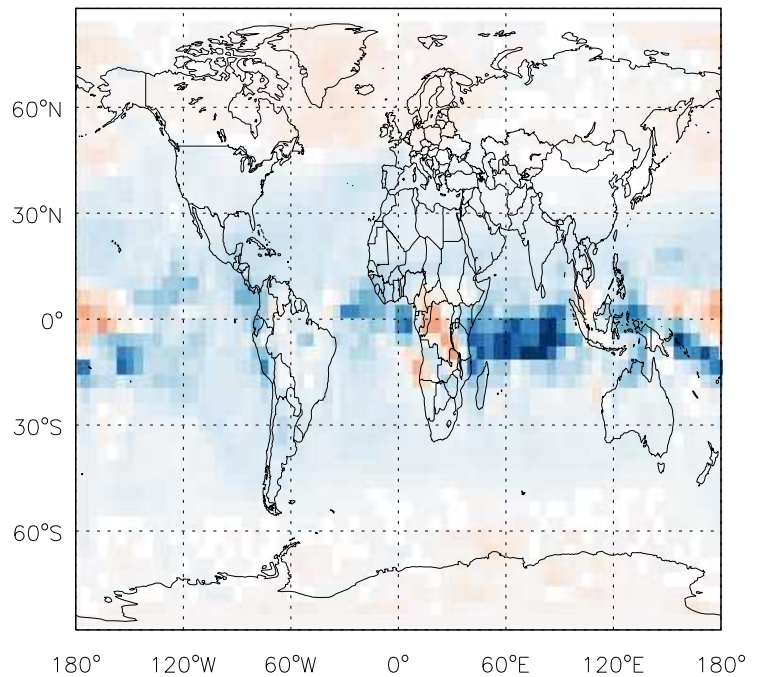
v11-01f-merra2-Run0 / v11-01d-Run1

HCl / Ratio @ Surface for Jan



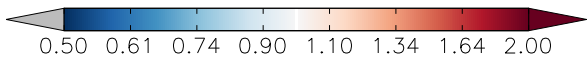
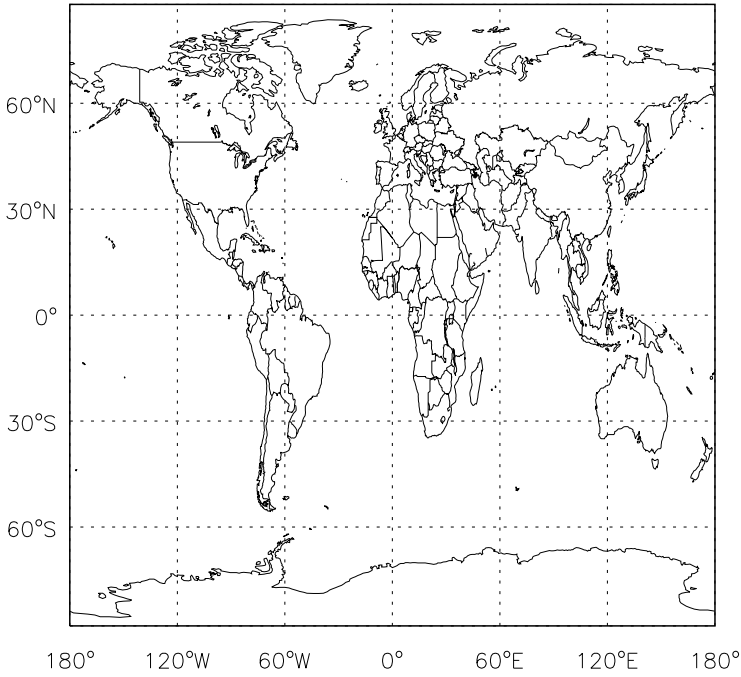
v11-01f-merra2-Run0 / v11-01d-Run1

HCl/ Ratio @ 500 hPa for Jan

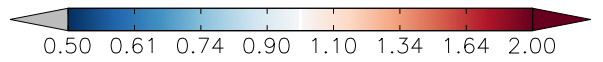
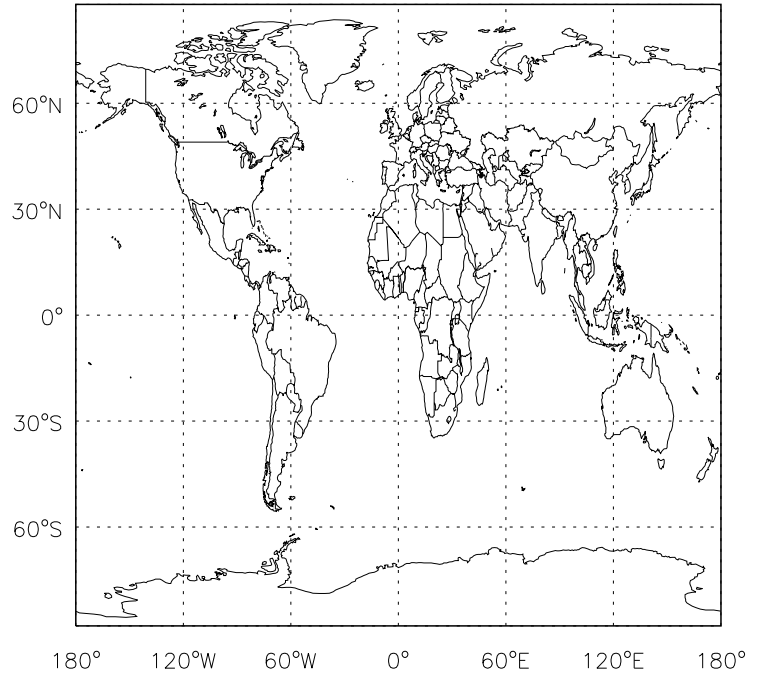


GEOS-Chem Ratio Maps at surface and 500 hPa

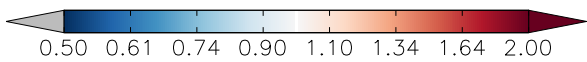
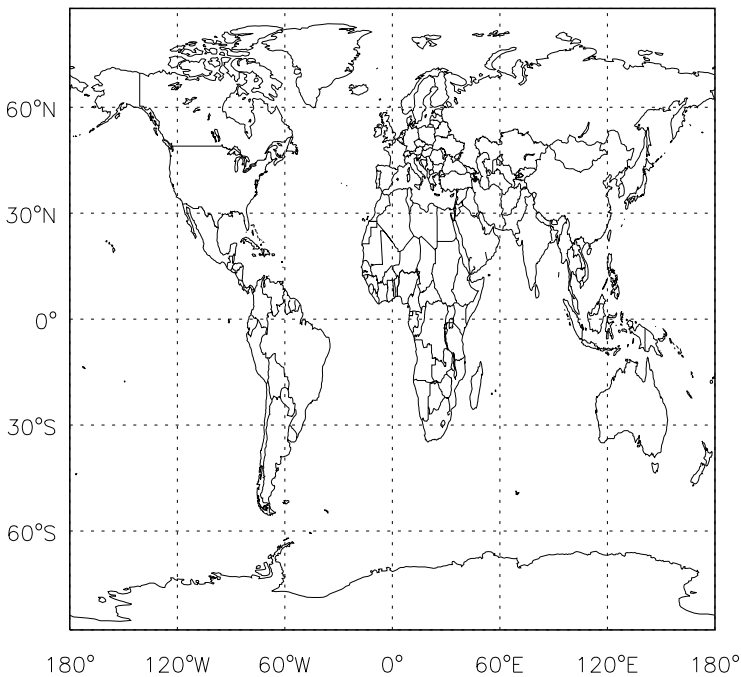
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CCI4 / Ratio @ Surface for Jan



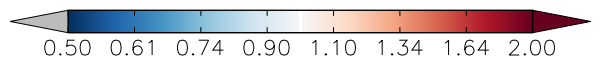
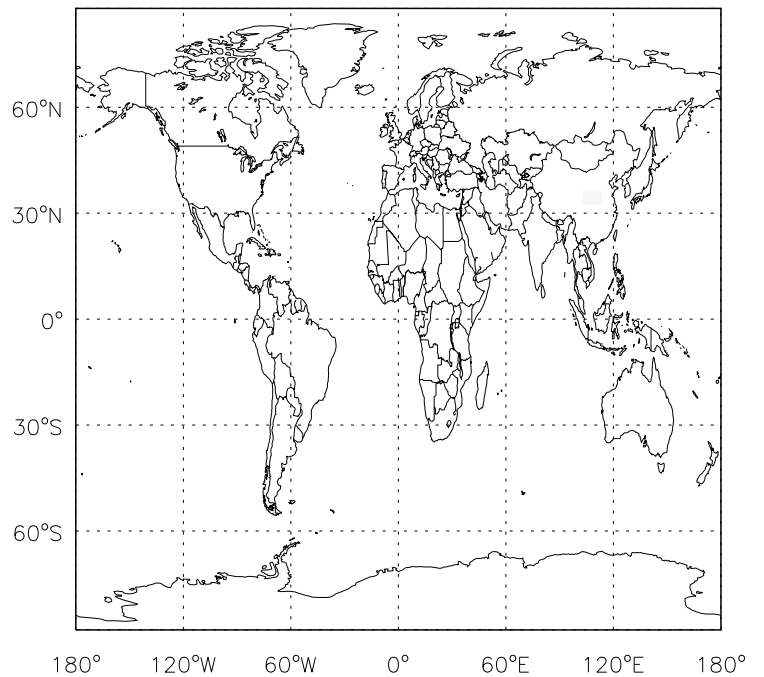
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CCI4/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CCI4 / Ratio @ Surface for Jan



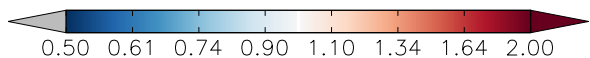
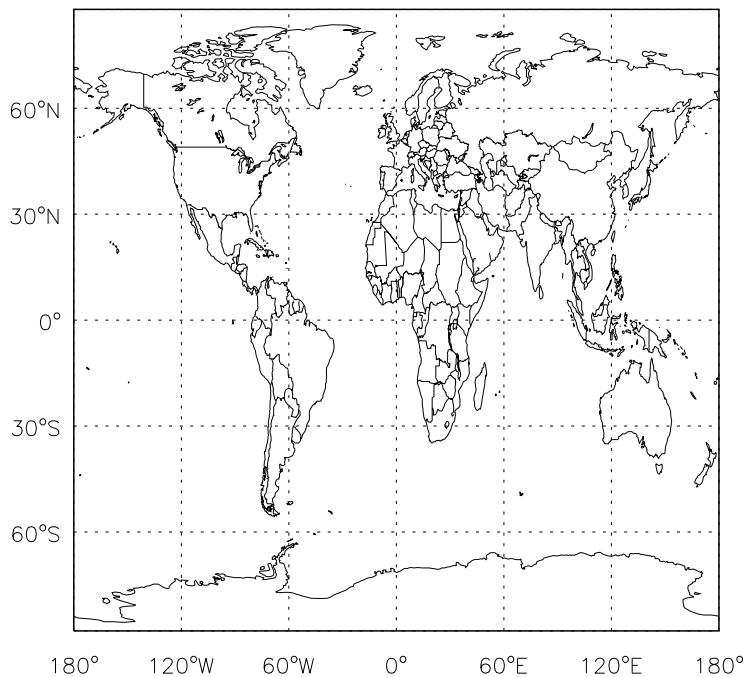
v11-01f-merra2-Run0 / v11-01d-Run1  
CCI4/ Ratio @ 500 hPa for Jan



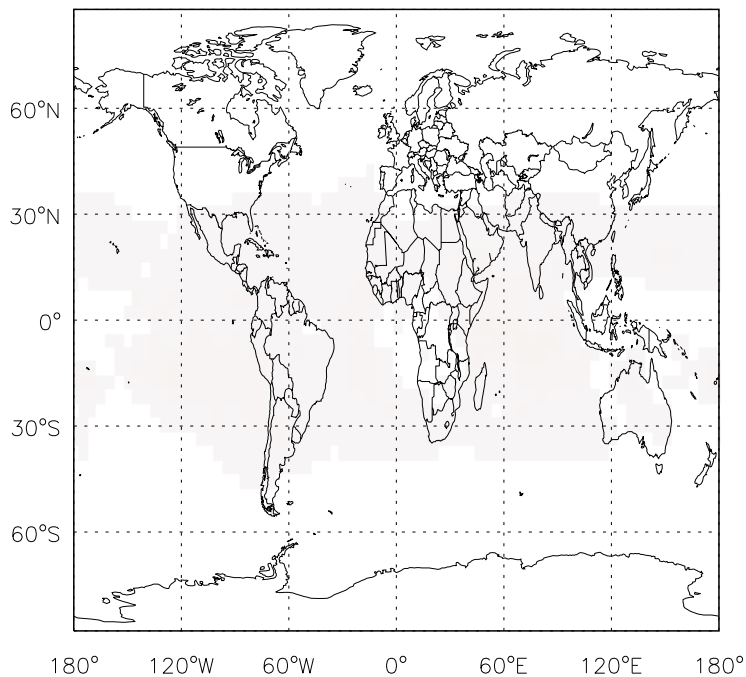


# GEOS-Chem Ratio Maps at surface and 500 hPa

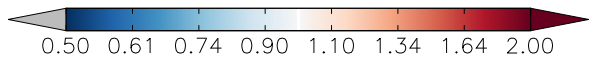
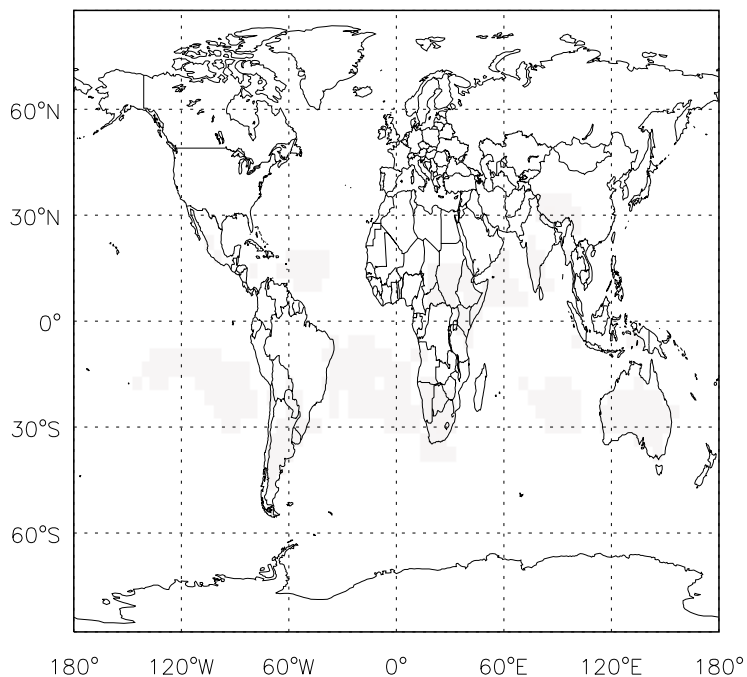
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3Cl / Ratio @ Surface for Jan



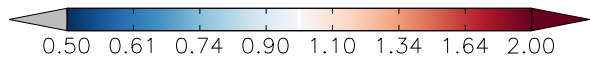
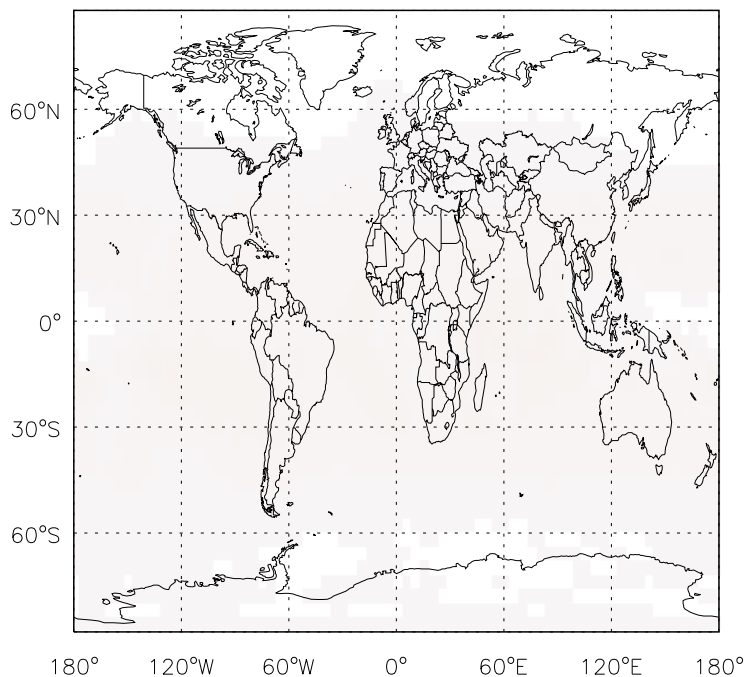
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3Cl/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CH3Cl / Ratio @ Surface for Jan

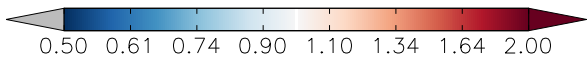
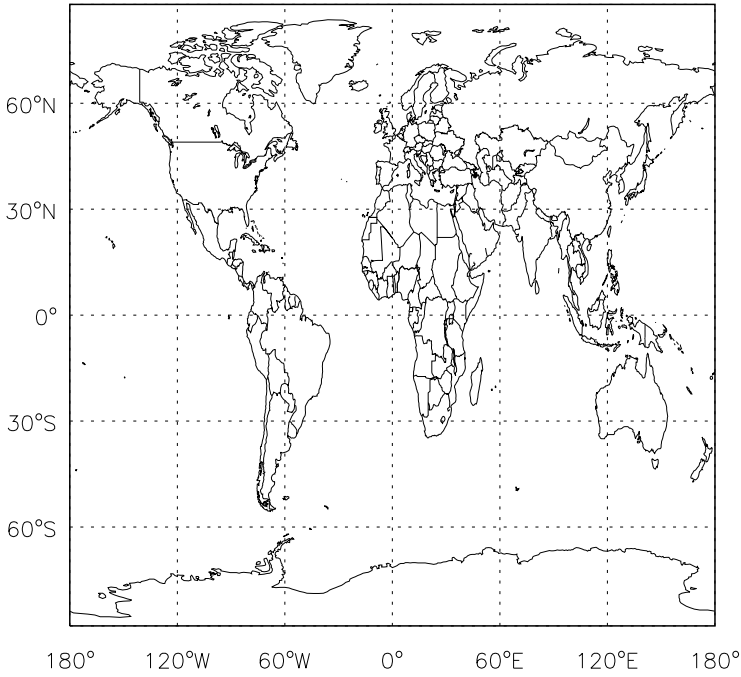


v11-01f-merra2-Run0 / v11-01d-Run1  
CH3Cl/ Ratio @ 500 hPa for Jan

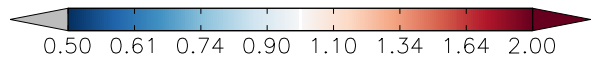
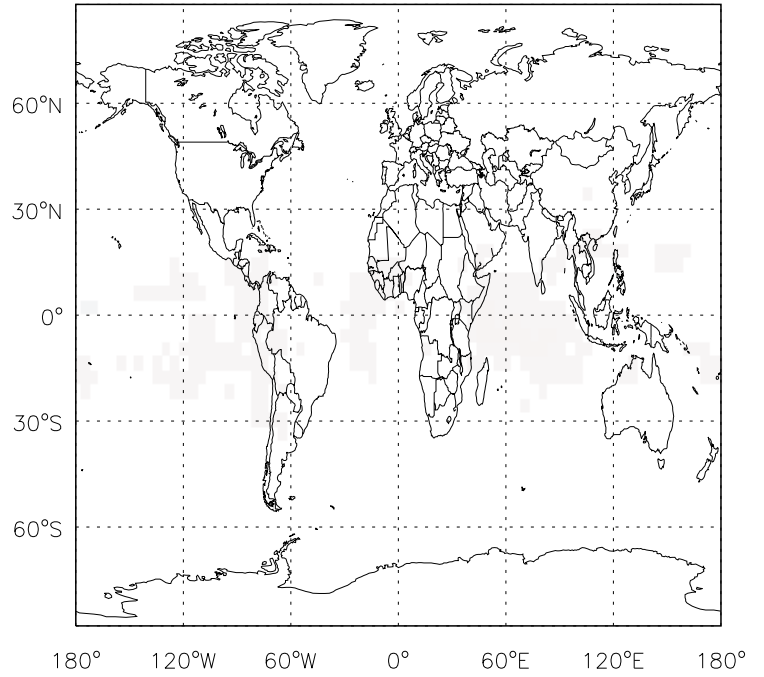


GEOS-Chem Ratio Maps at surface and 500 hPa

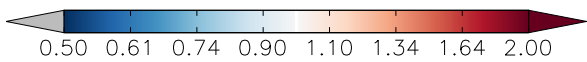
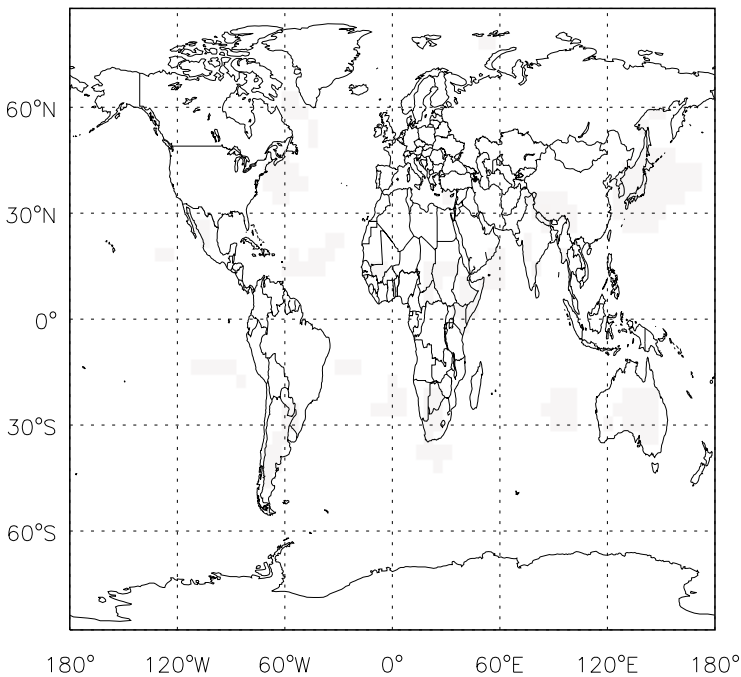
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3CCI3 / Ratio @ Surface for Jan



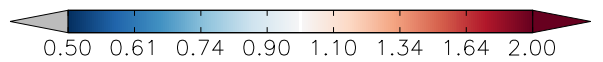
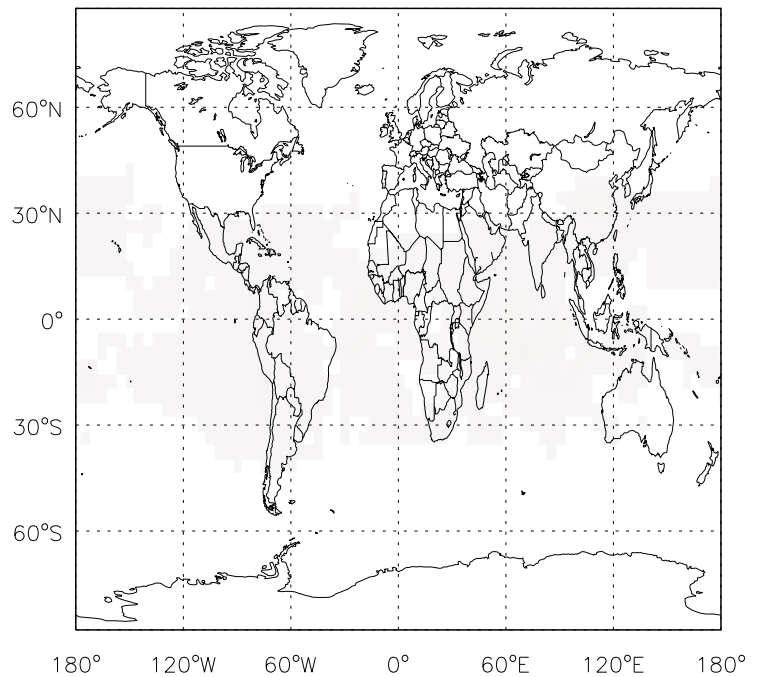
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CH3CCI3/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CH3CCI3 / Ratio @ Surface for Jan

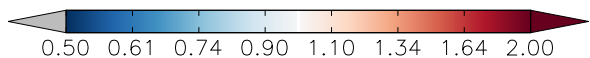
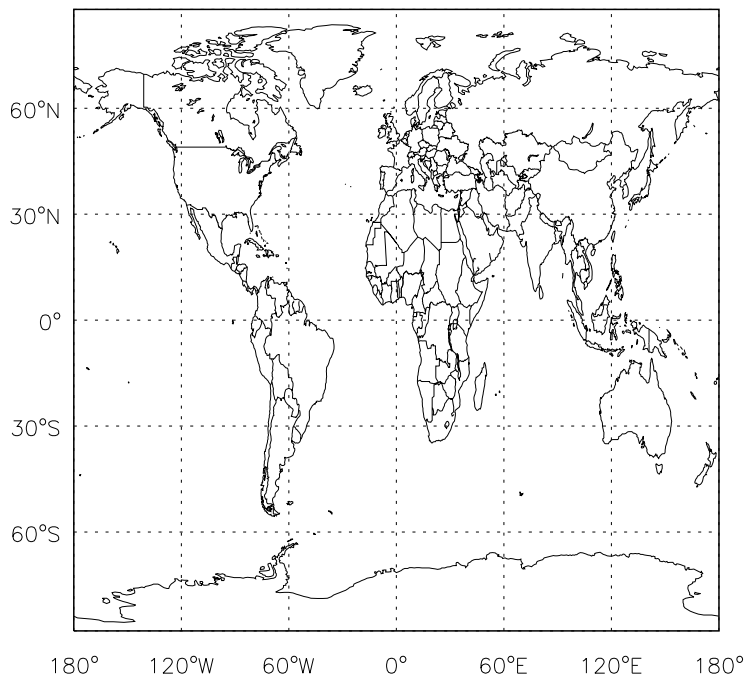


v11-01f-merra2-Run0 / v11-01d-Run1  
CH3CCI3/ Ratio @ 500 hPa for Jan

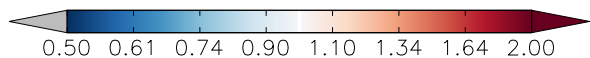
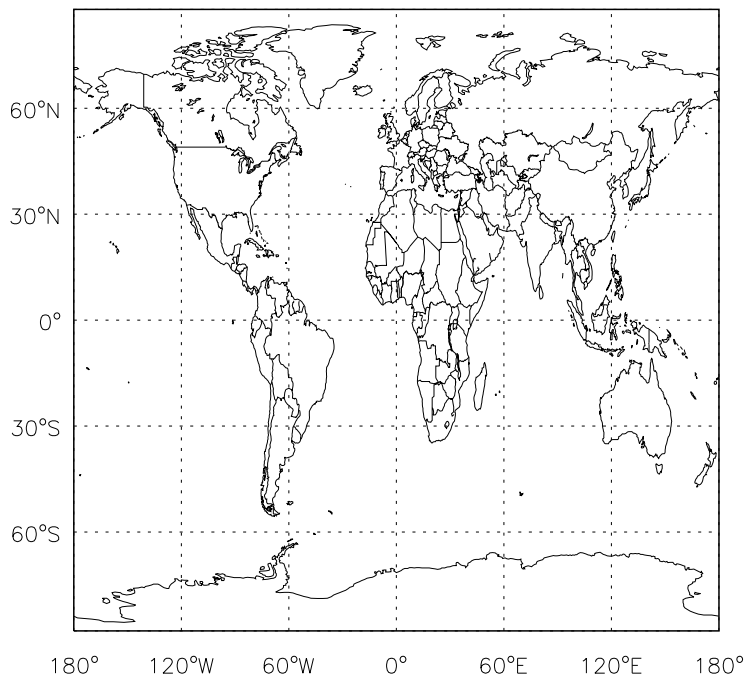


# GEOS-Chem Ratio Maps at surface and 500 hPa

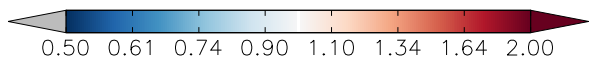
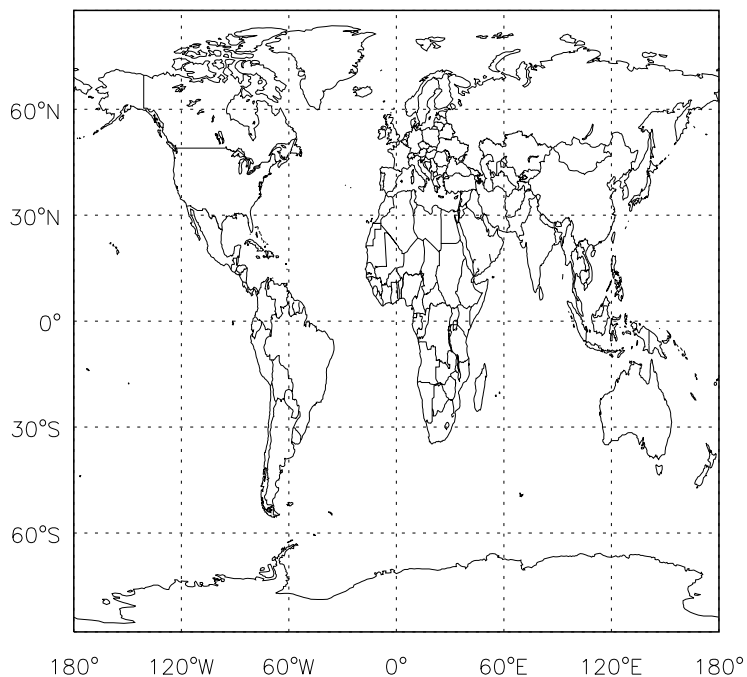
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CFCX / Ratio @ Surface for Jan



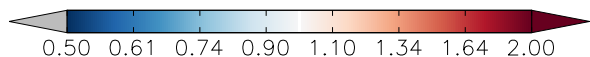
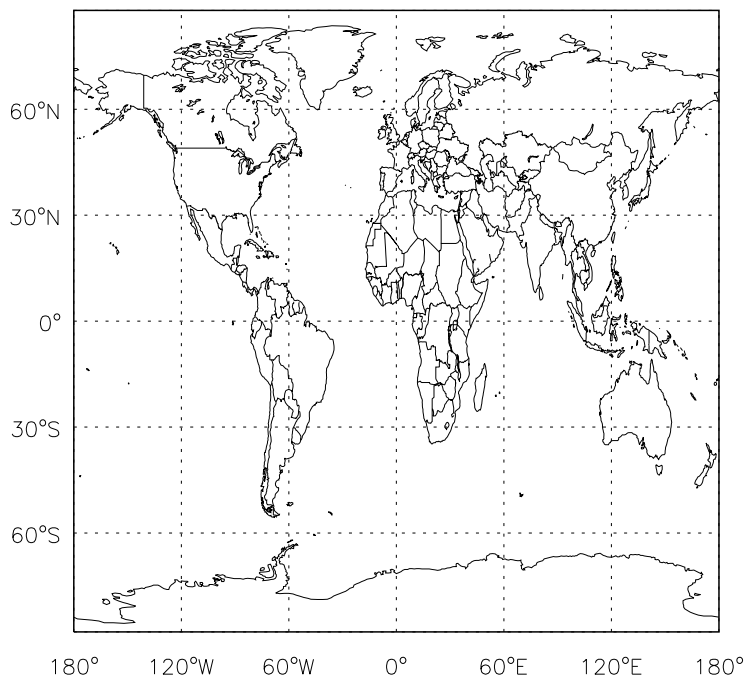
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CFCX / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CFCX / Ratio @ Surface for Jan

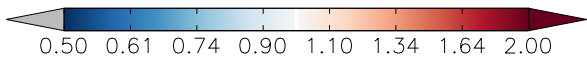
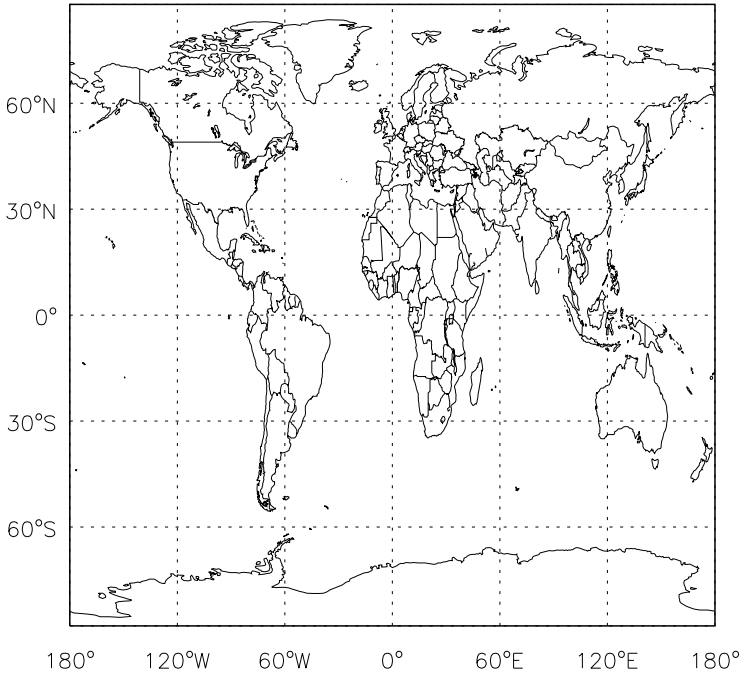


v11-01f-merra2-Run0 / v11-01d-Run1  
CFCX / Ratio @ 500 hPa for Jan

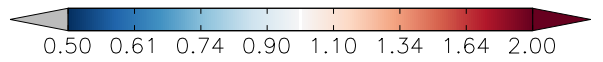
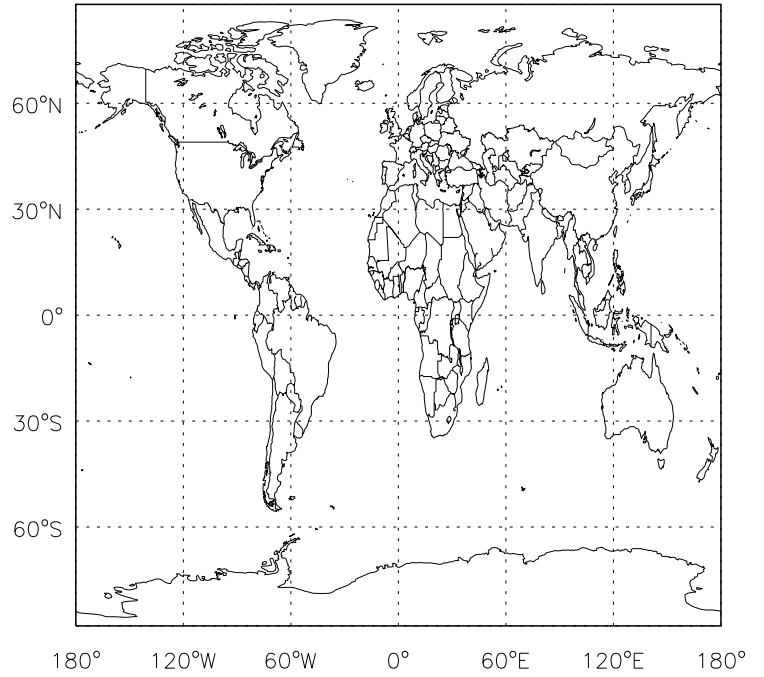


GEOS-Chem Ratio Maps at surface and 500 hPa

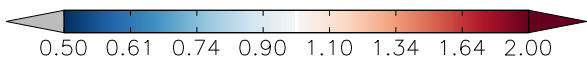
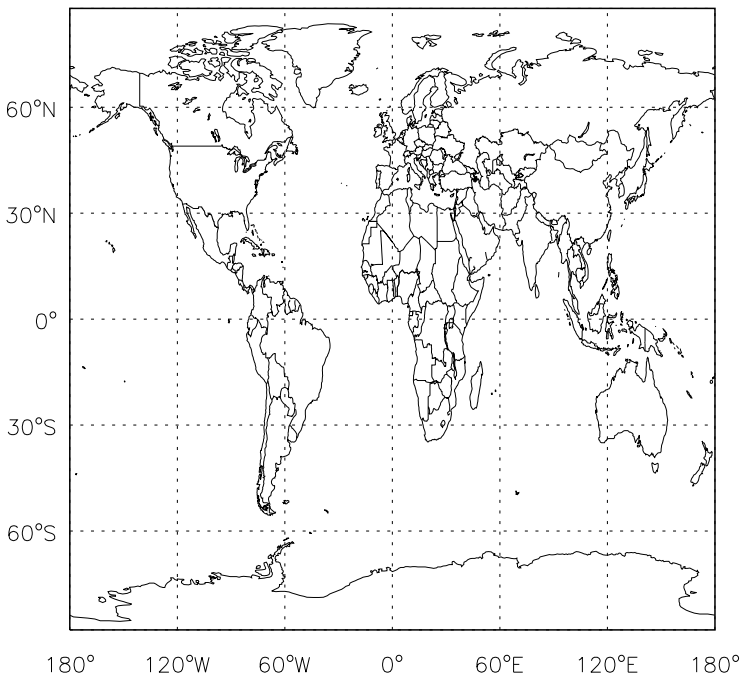
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HCFCX / Ratio @ Surface for Jan



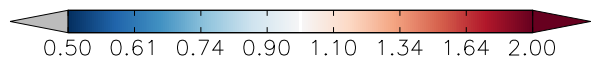
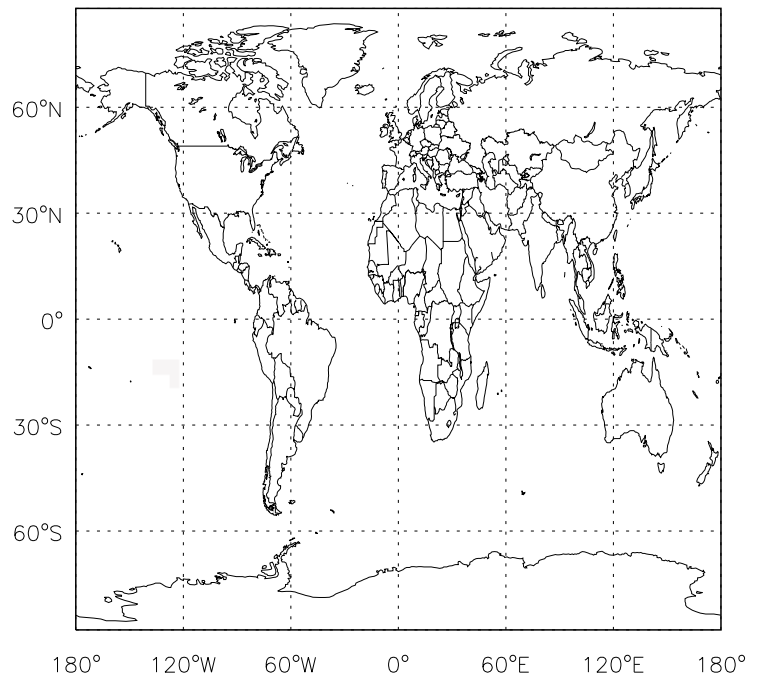
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HCFCX/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HCFCX / Ratio @ Surface for Jan

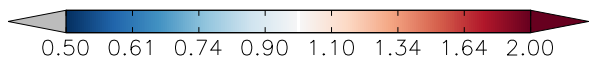
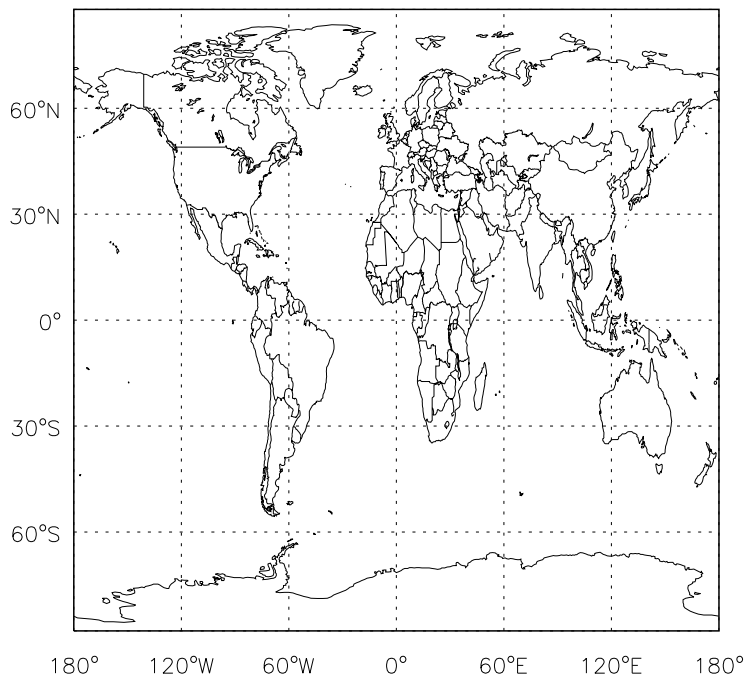


v11-01f-merra2-Run0 / v11-01d-Run1  
HCFCX/ Ratio @ 500 hPa for Jan

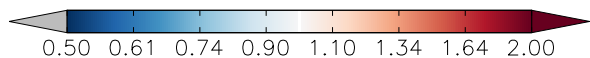
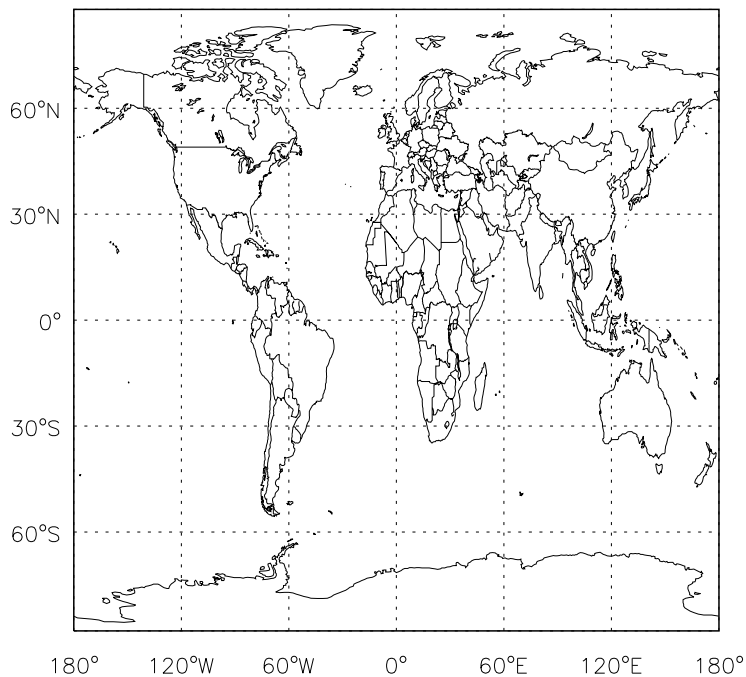


# GEOS-Chem Ratio Maps at surface and 500 hPa

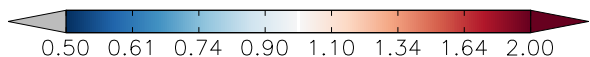
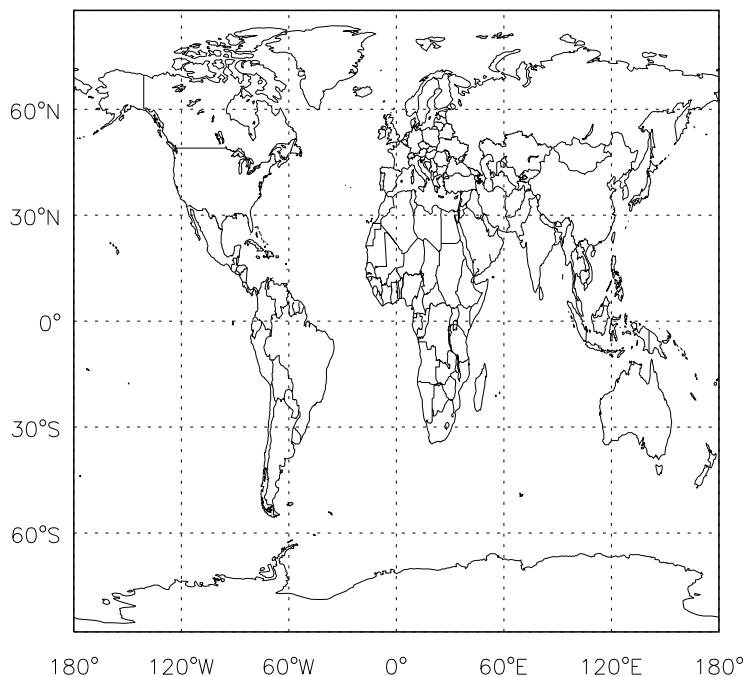
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CFC11 / Ratio @ Surface for Jan



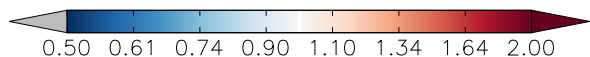
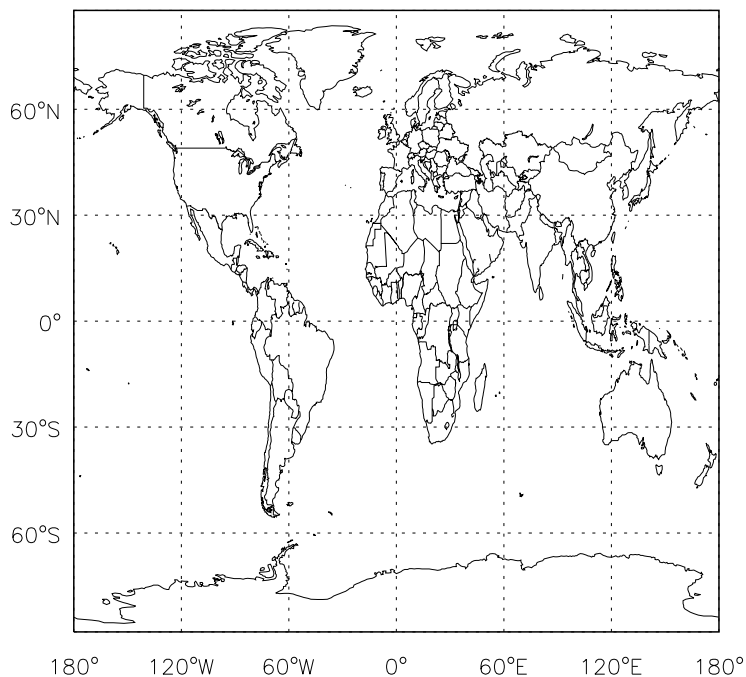
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CFC11/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CFC11 / Ratio @ Surface for Jan

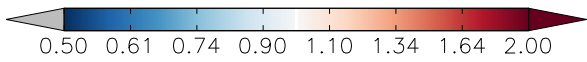
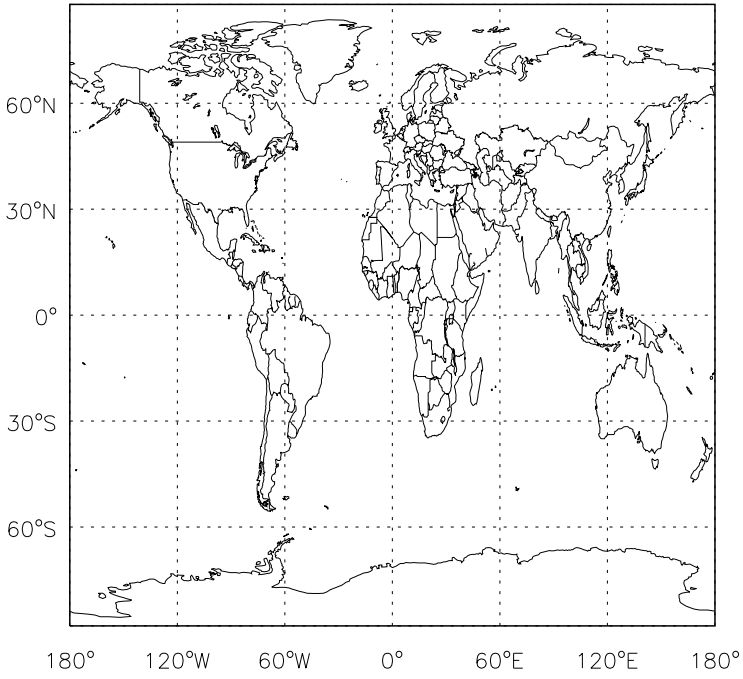


v11-01f-merra2-Run0 / v11-01d-Run1  
CFC11/ Ratio @ 500 hPa for Jan

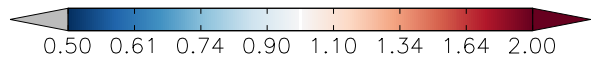
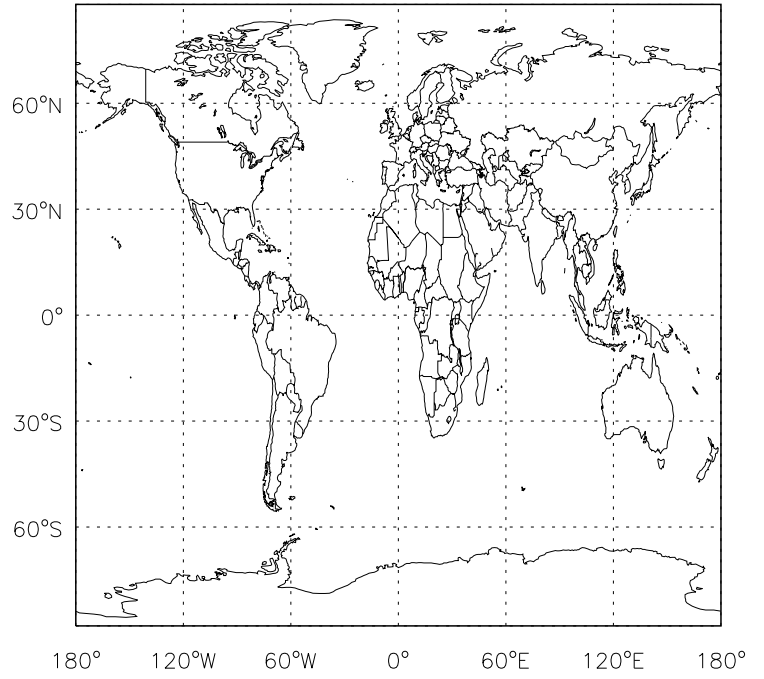


# GEOS-Chem Ratio Maps at surface and 500 hPa

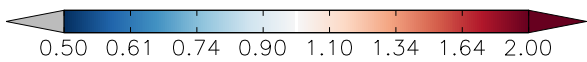
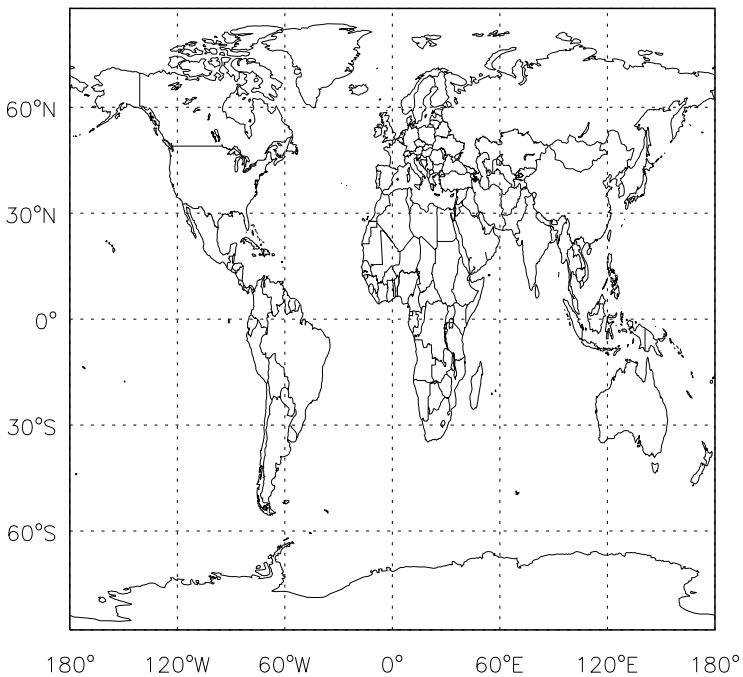
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CFC12 / Ratio @ Surface for Jan



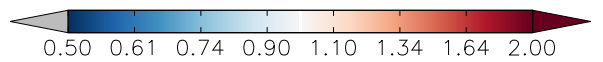
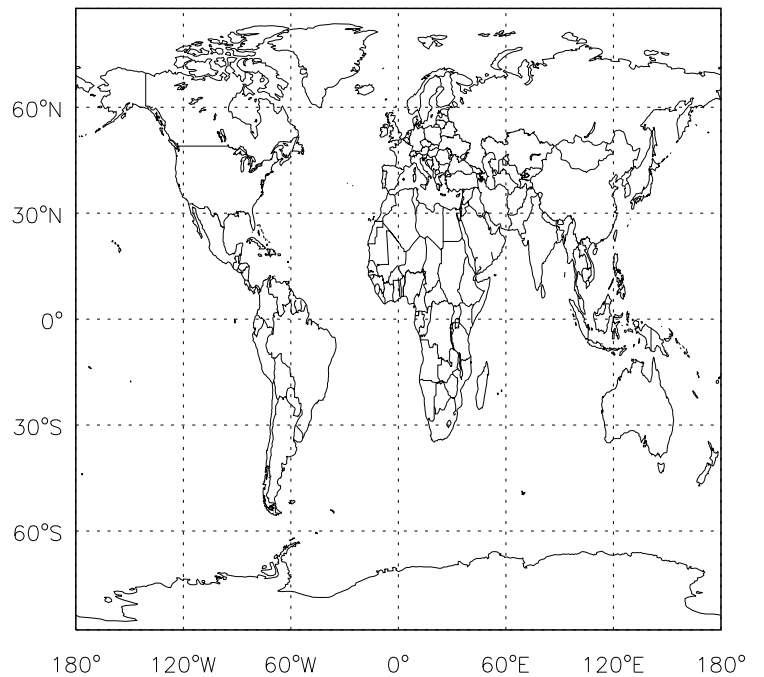
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CFC12/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CFC12 / Ratio @ Surface for Jan

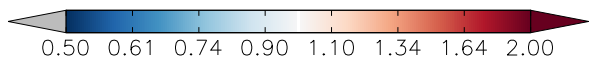
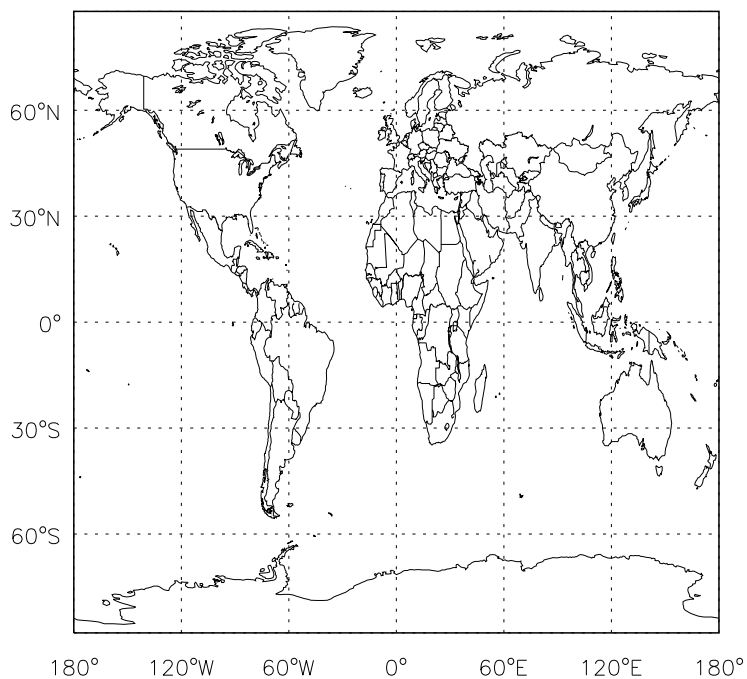


v11-01f-merra2-Run0 / v11-01d-Run1  
CFC12/ Ratio @ 500 hPa for Jan

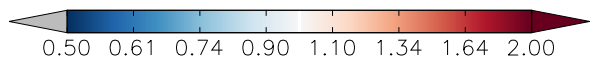
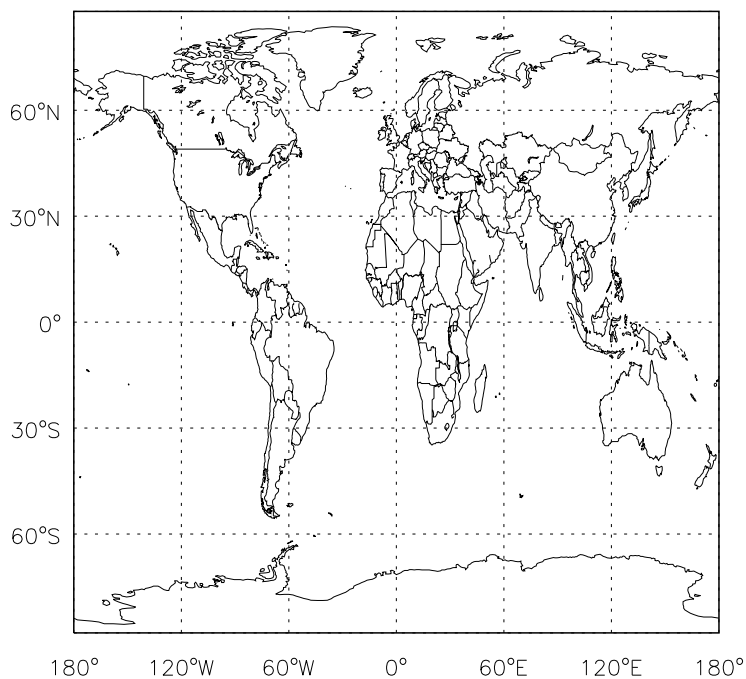


# GEOS-Chem Ratio Maps at surface and 500 hPa

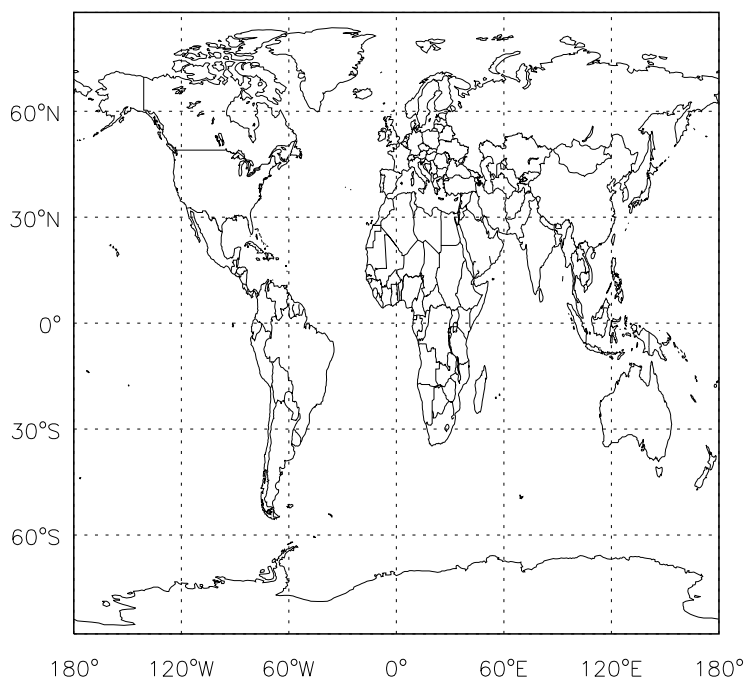
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HCFC22 / Ratio @ Surface for Jan



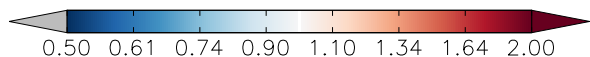
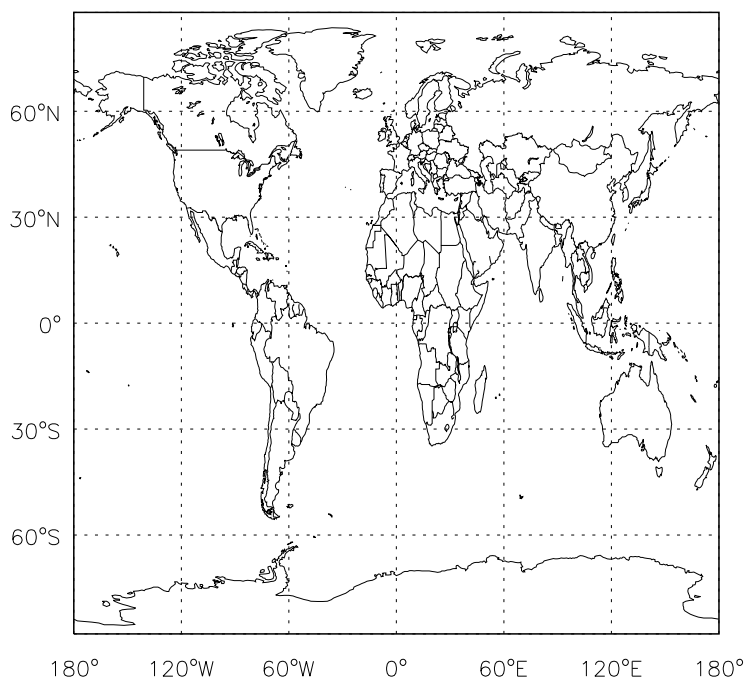
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HCFC22/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HCFC22 / Ratio @ Surface for Jan

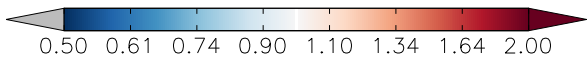
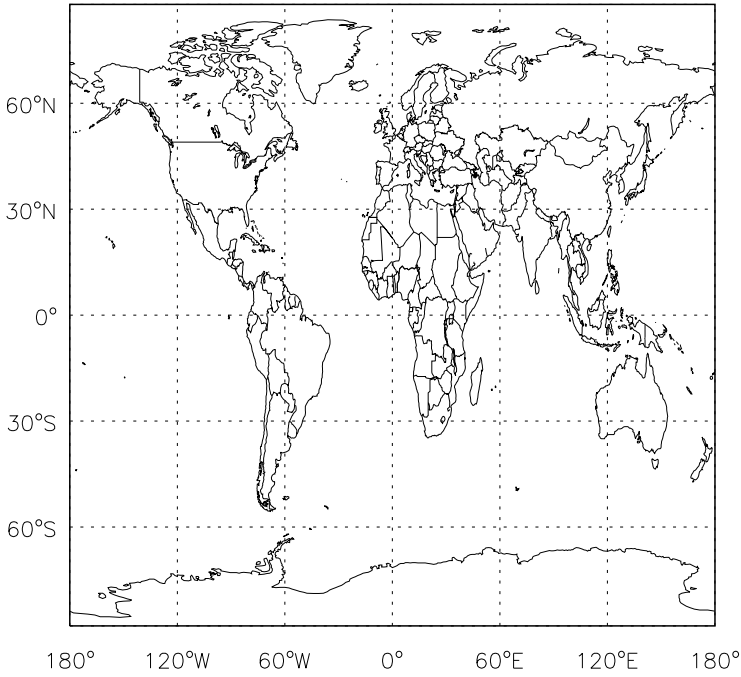


v11-01f-merra2-Run0 / v11-01d-Run1  
HCFC22/ Ratio @ 500 hPa for Jan

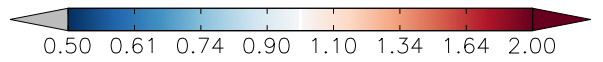
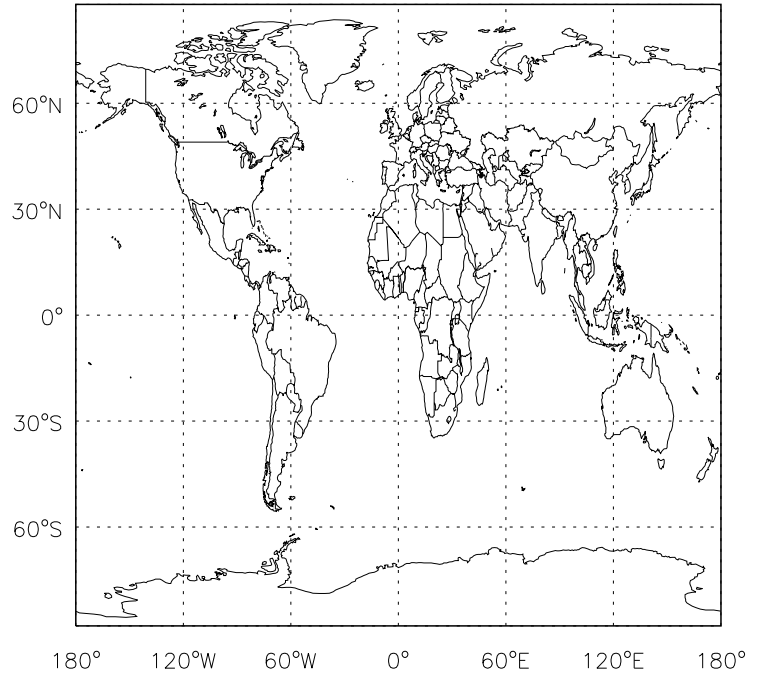


GEOS-Chem Ratio Maps at surface and 500 hPa

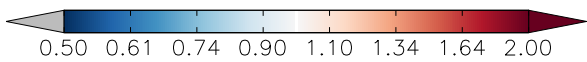
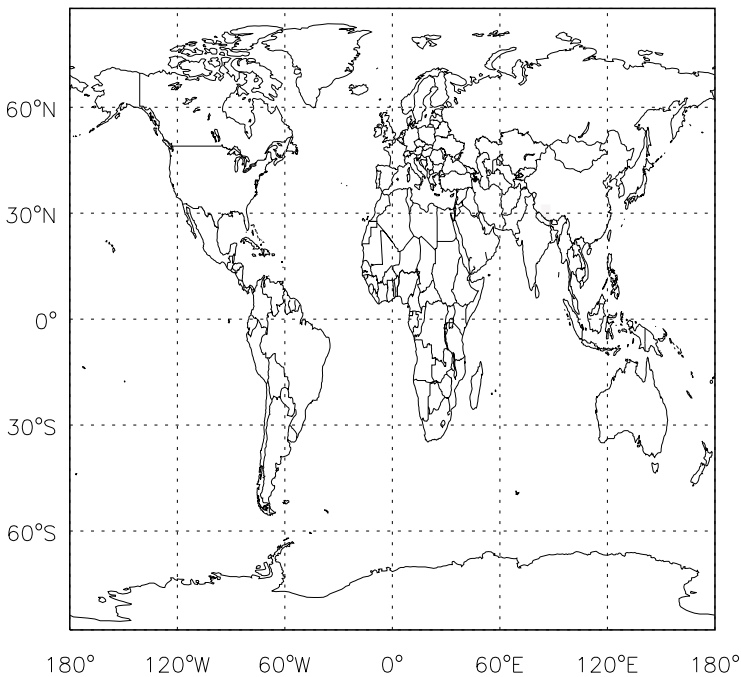
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H1211 / Ratio @ Surface for Jan



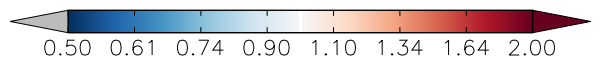
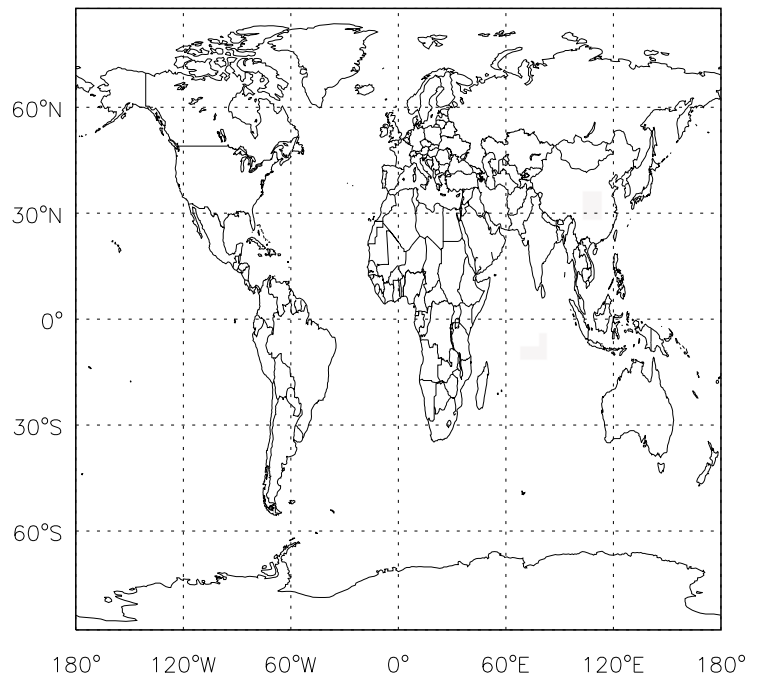
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H1211/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
H1211 / Ratio @ Surface for Jan



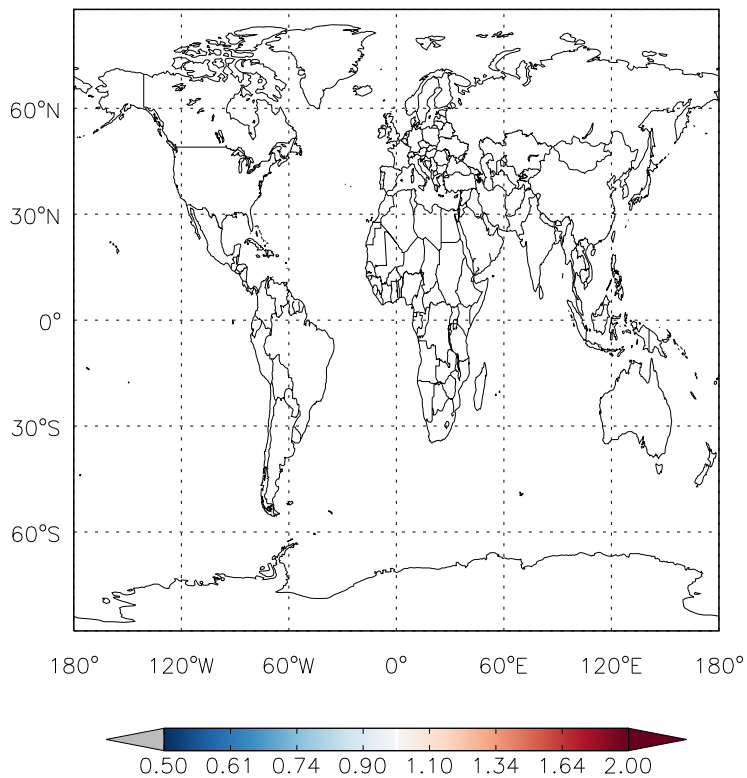
v11-01f-merra2-Run0 / v11-01d-Run1  
H1211/ Ratio @ 500 hPa for Jan



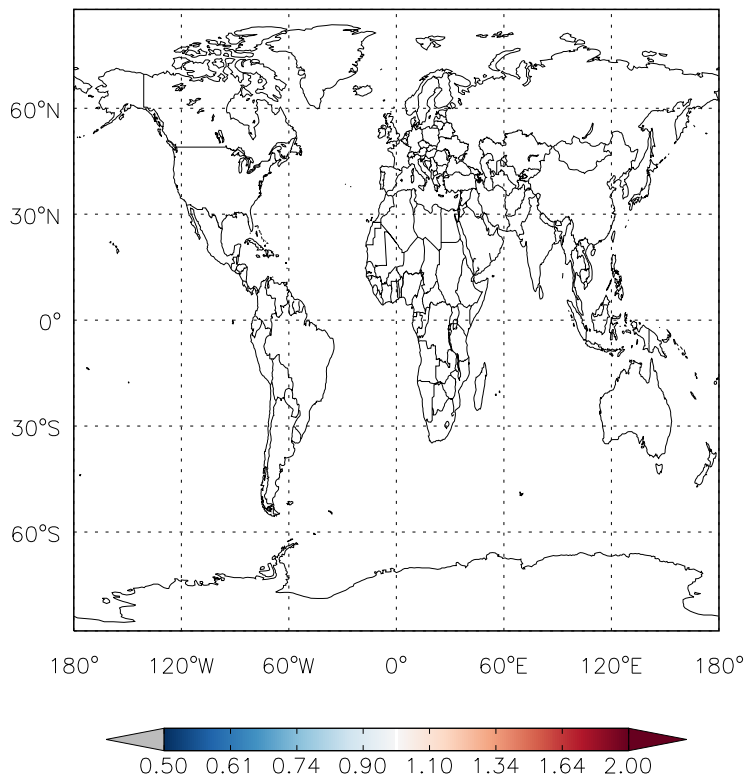


# GEOS-Chem Ratio Maps at surface and 500 hPa

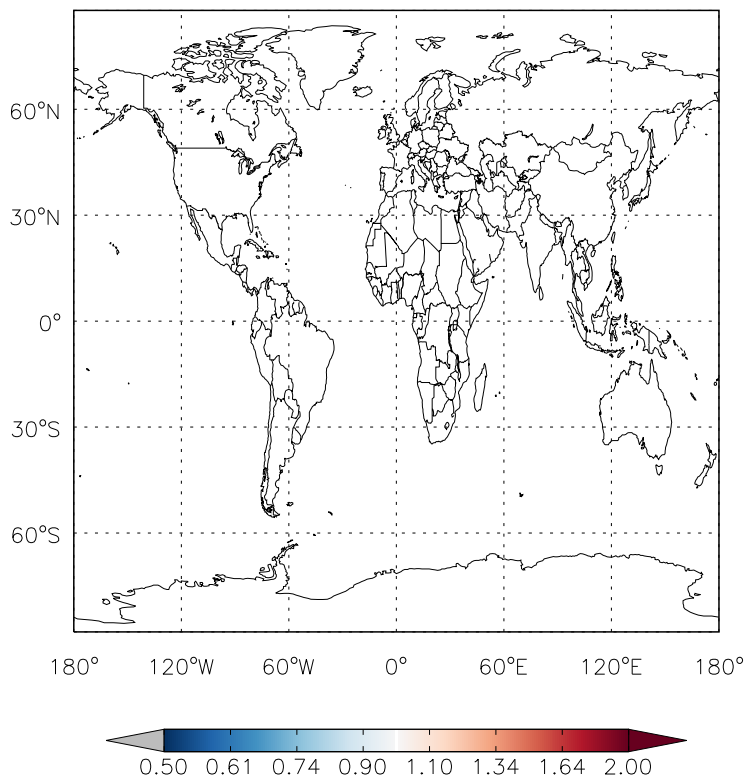
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H1301 / Ratio @ Surface for Jan



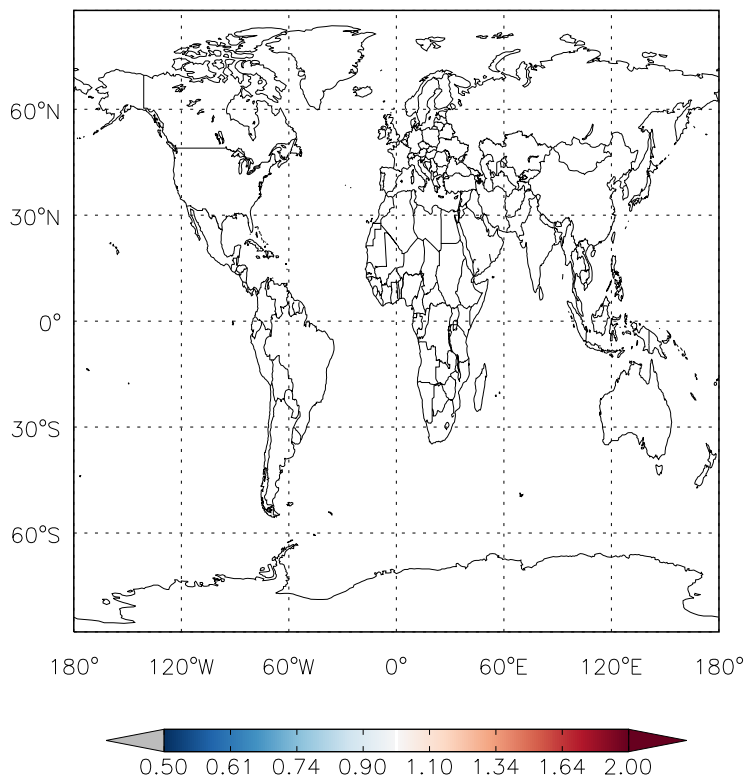
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H1301/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
H1301 / Ratio @ Surface for Jan

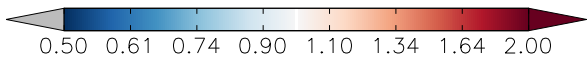
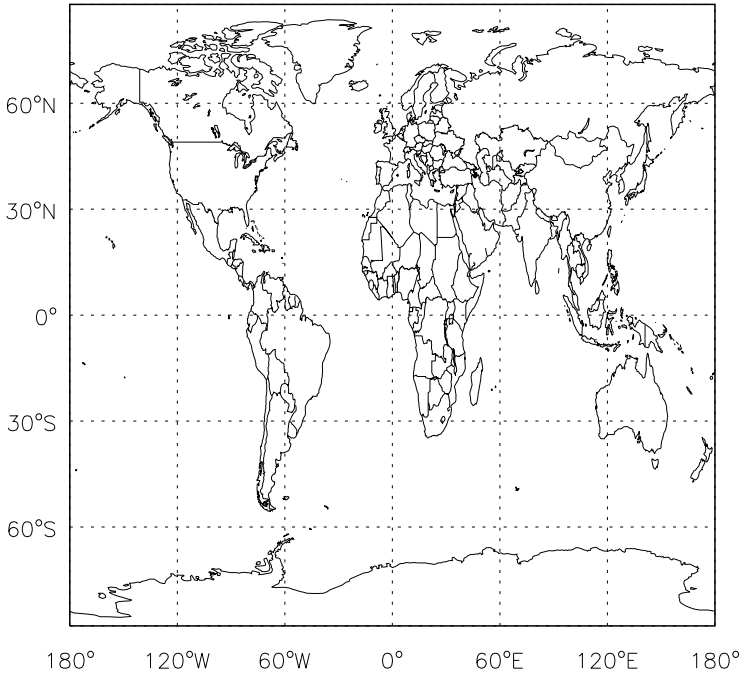


v11-01f-merra2-Run0 / v11-01d-Run1  
H1301/ Ratio @ 500 hPa for Jan

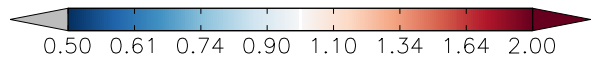
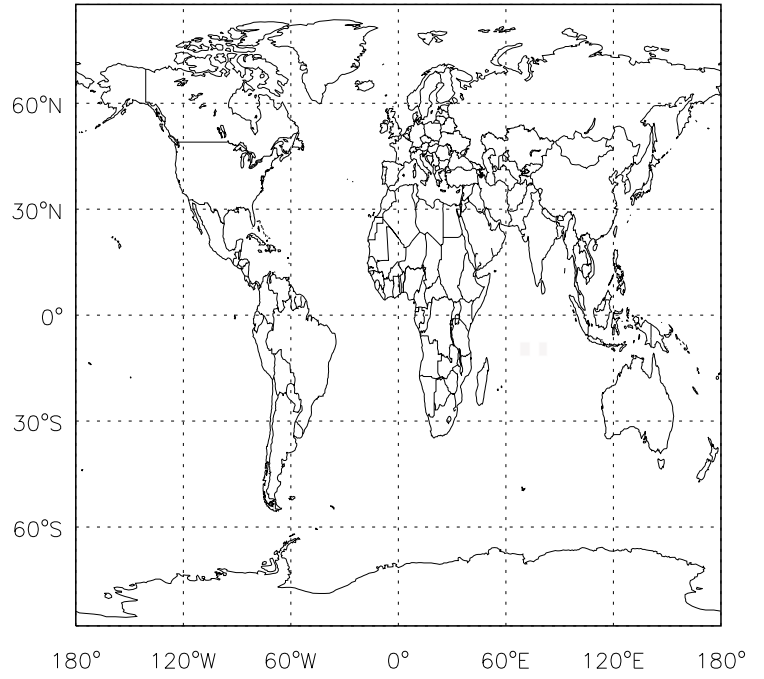


GEOS-Chem Ratio Maps at surface and 500 hPa

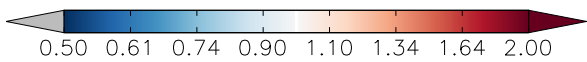
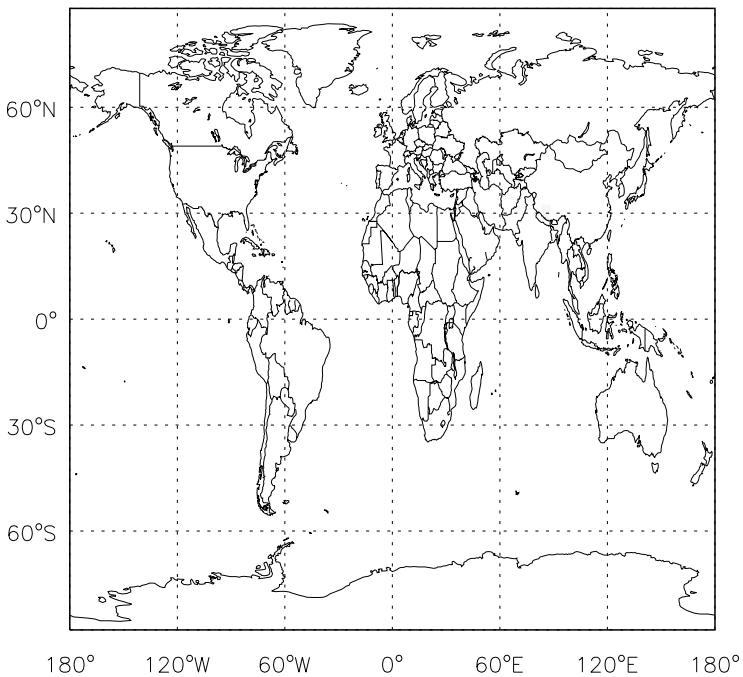
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2402 / Ratio @ Surface for Jan



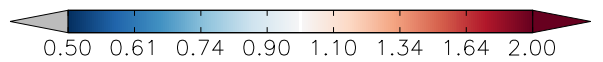
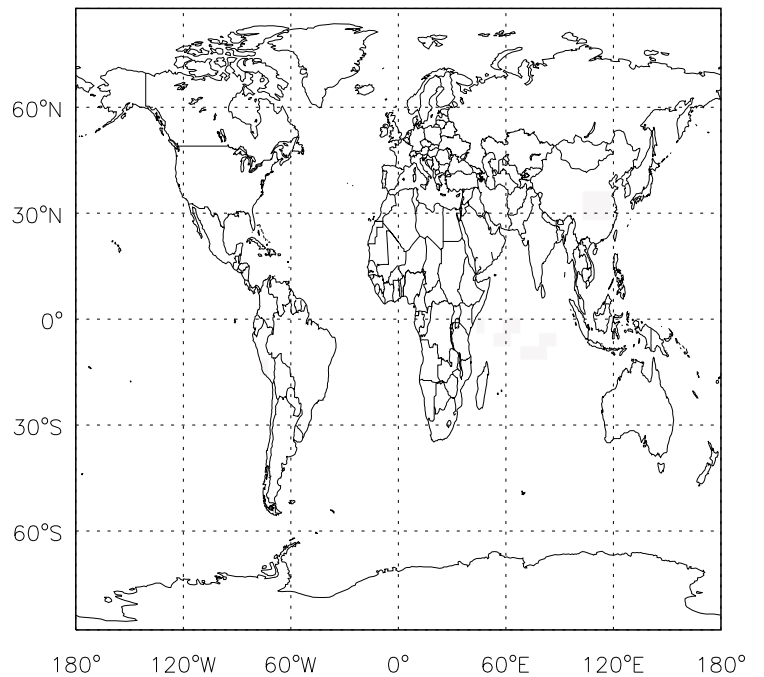
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2402/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
H2402 / Ratio @ Surface for Jan



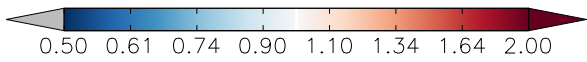
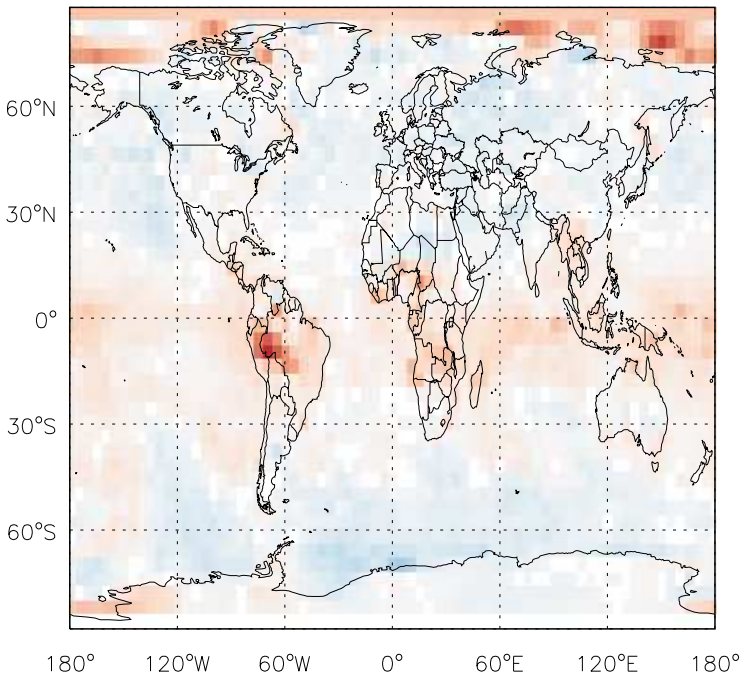
v11-01f-merra2-Run0 / v11-01d-Run1  
H2402/ Ratio @ 500 hPa for Jan



GEOS-Chem Ratio Maps at surface and 500 hPa

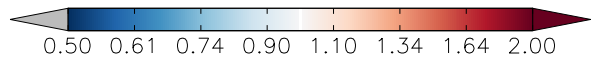
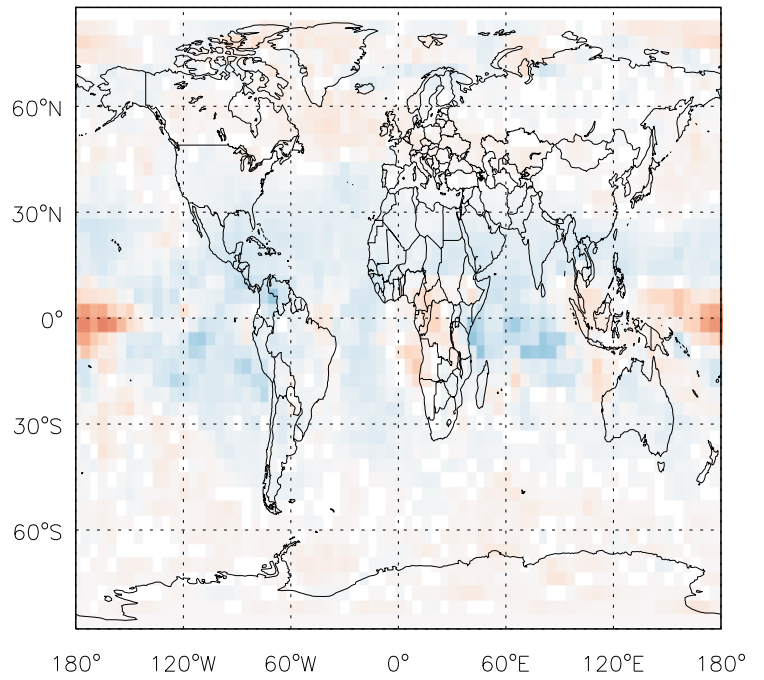
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

Cl / Ratio @ Surface for Jan



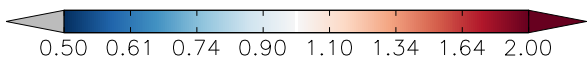
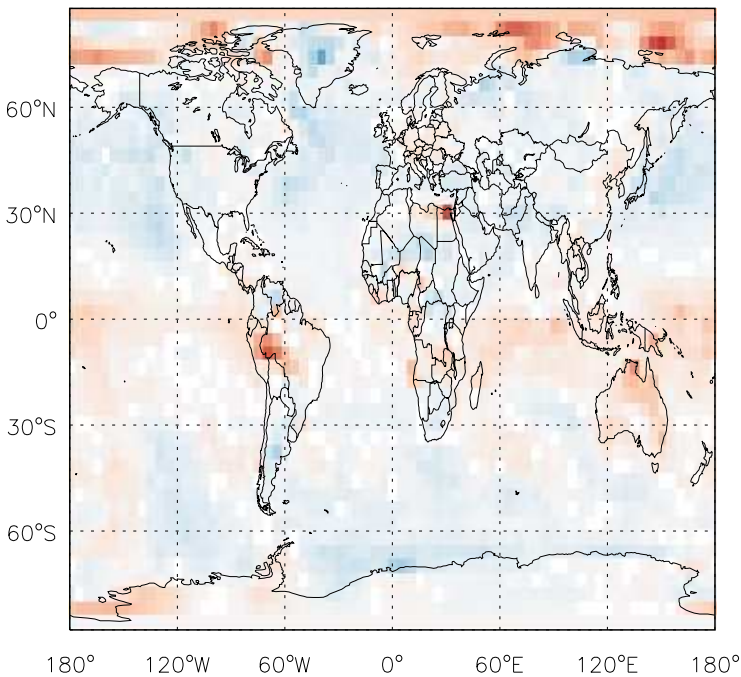
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

Cl / Ratio @ 500 hPa for Jan



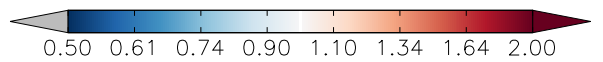
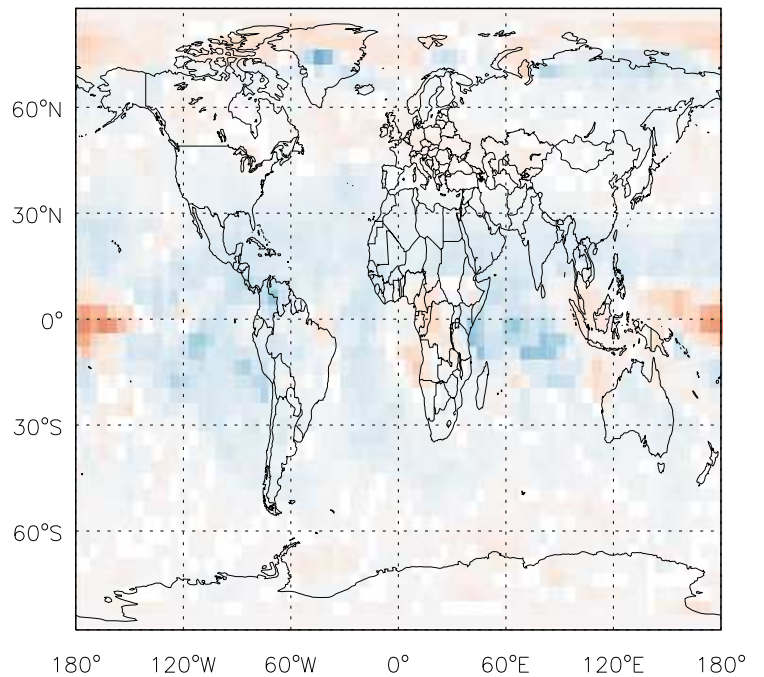
v11-01f-merra2-Run0 / v11-01d-Run1

Cl / Ratio @ Surface for Jan



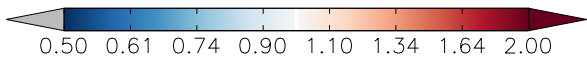
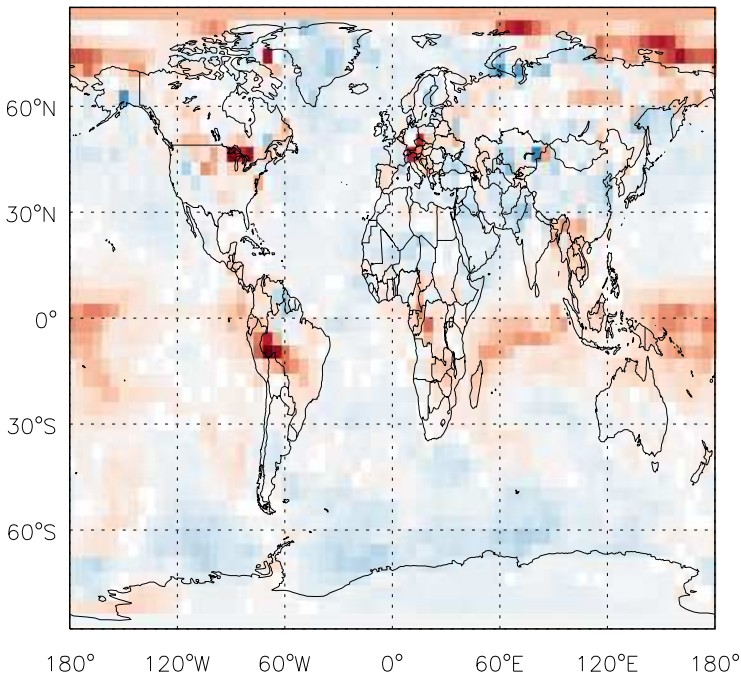
v11-01f-merra2-Run0 / v11-01d-Run1

Cl / Ratio @ 500 hPa for Jan

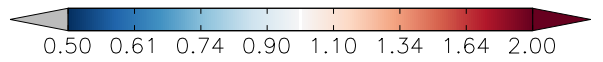
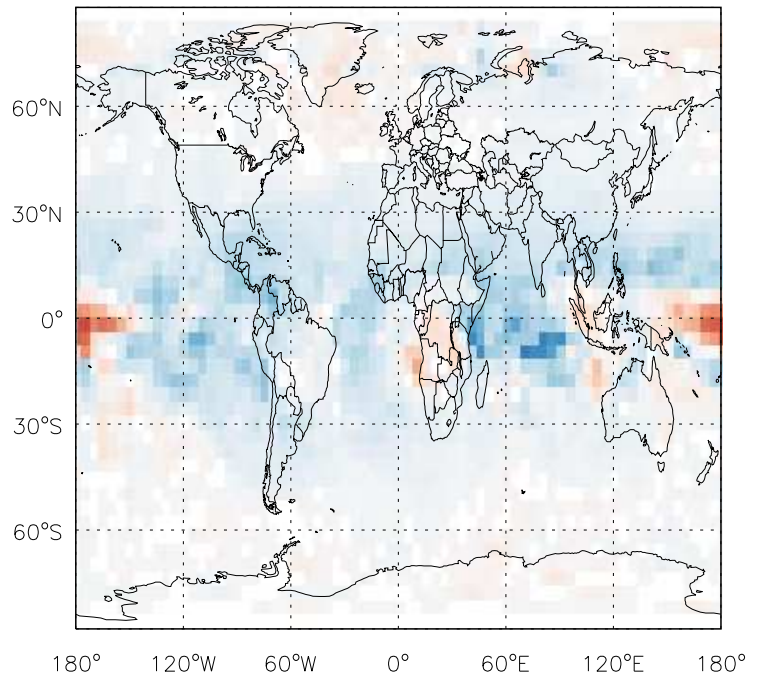


# GEOS-Chem Ratio Maps at surface and 500 hPa

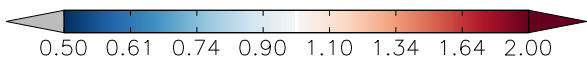
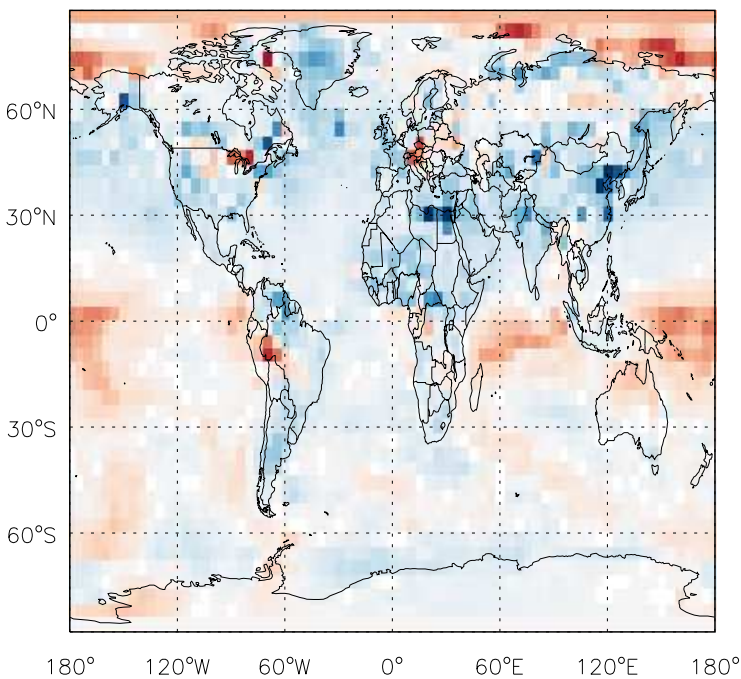
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ClO / Ratio @ Surface for Jan



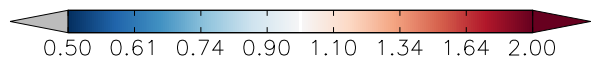
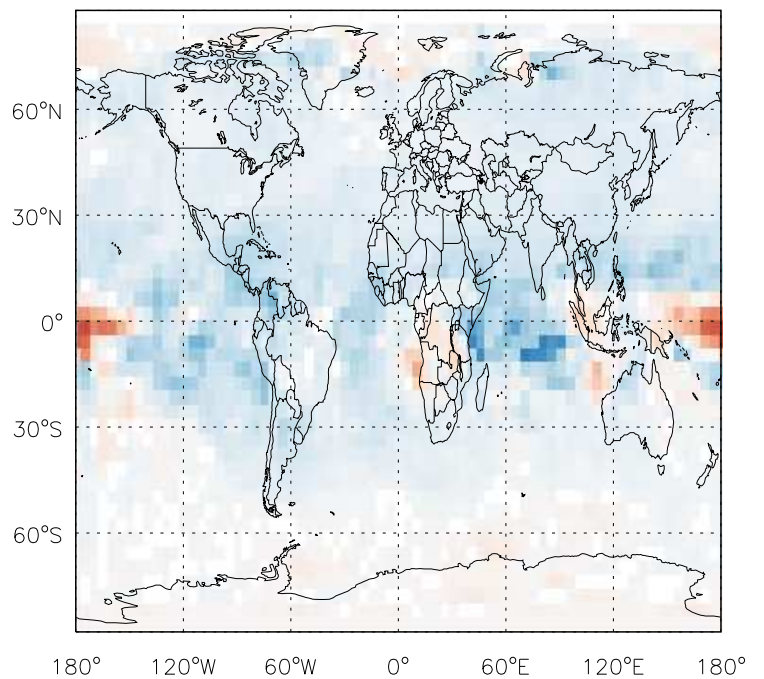
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ClO / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ClO / Ratio @ Surface for Jan



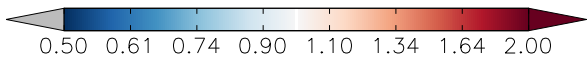
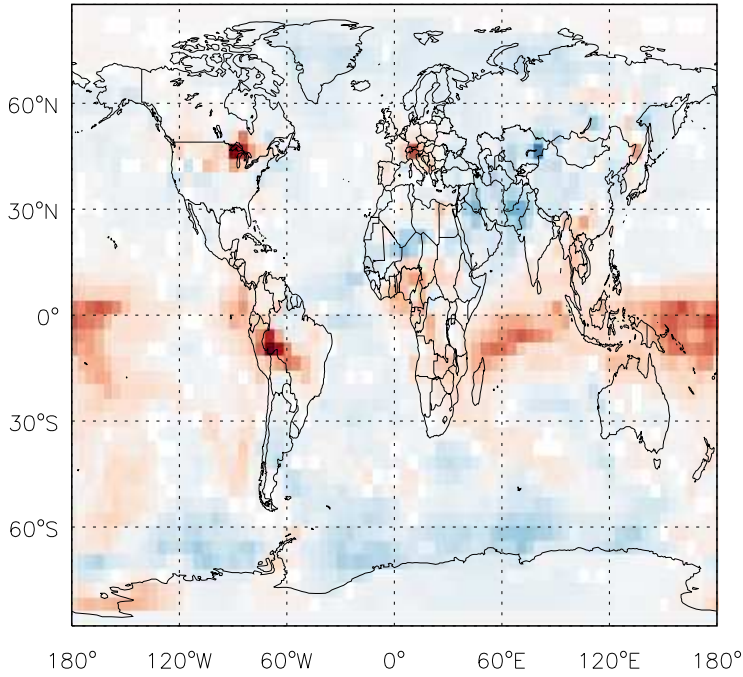
v11-01f-merra2-Run0 / v11-01d-Run1  
ClO / Ratio @ 500 hPa for Jan



GEOS-Chem Ratio Maps at surface and 500 hPa

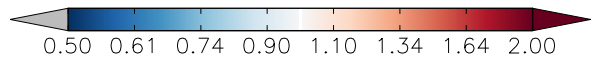
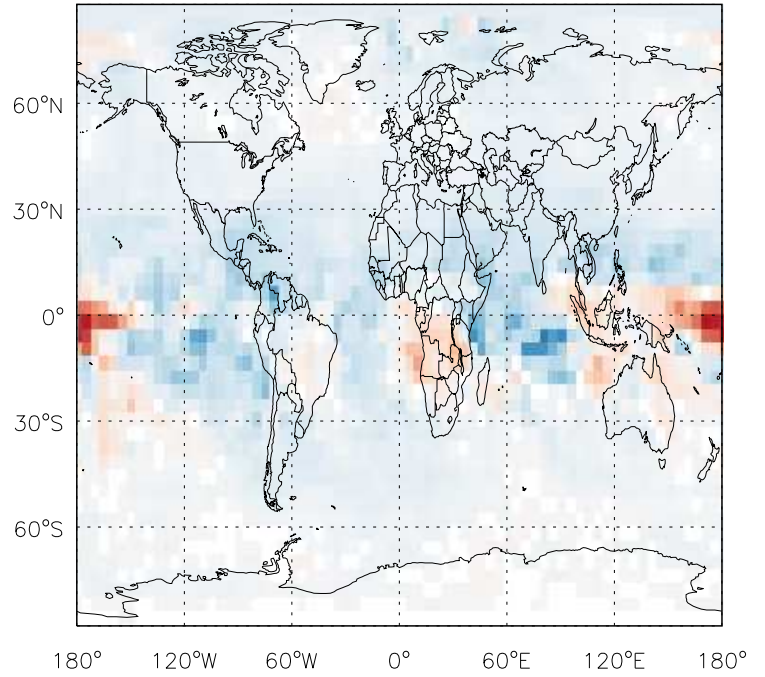
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

HOCl / Ratio @ Surface for Jan



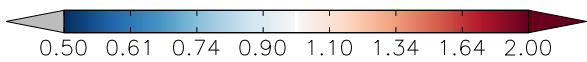
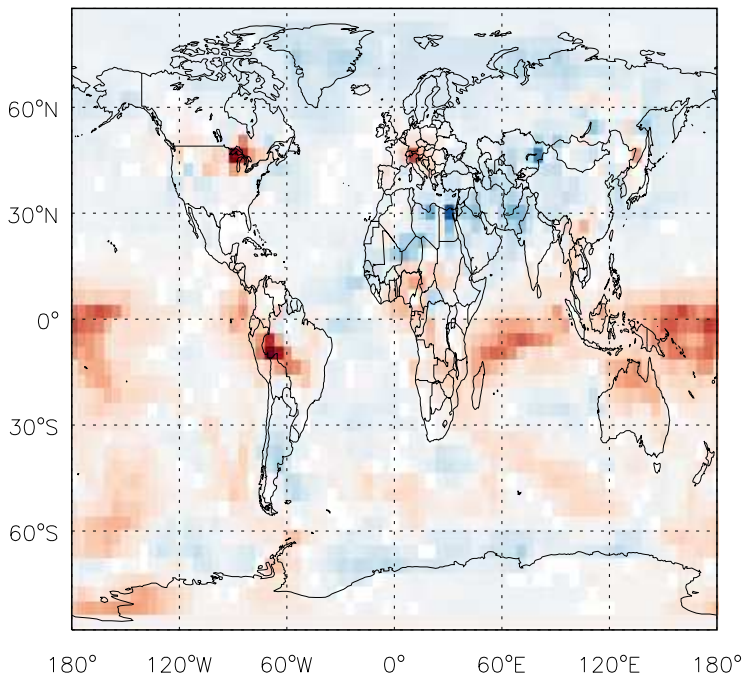
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0

HOCl / Ratio @ 500 hPa for Jan



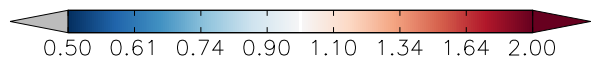
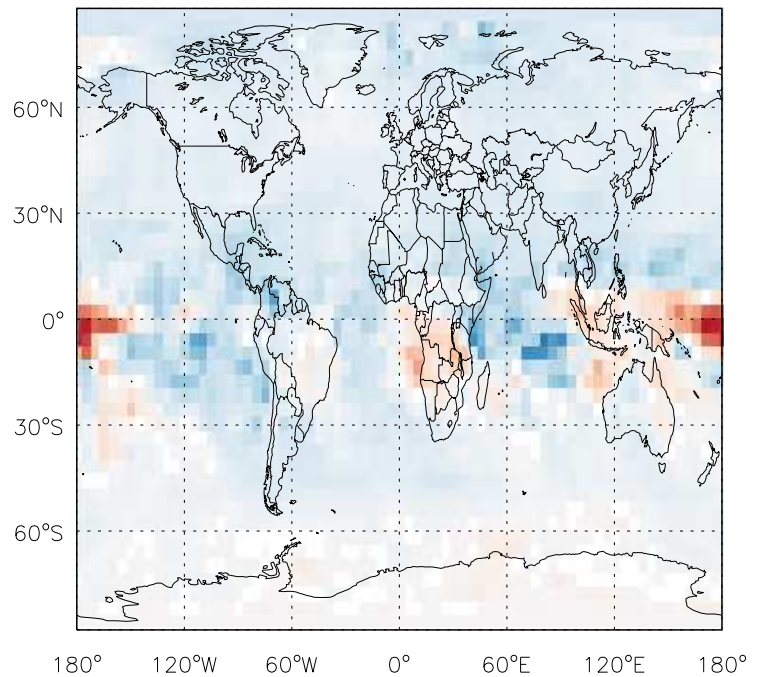
v11-01f-merra2-Run0 / v11-01d-Run1

HOCl / Ratio @ Surface for Jan



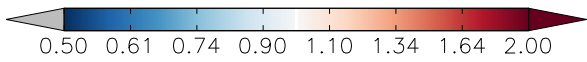
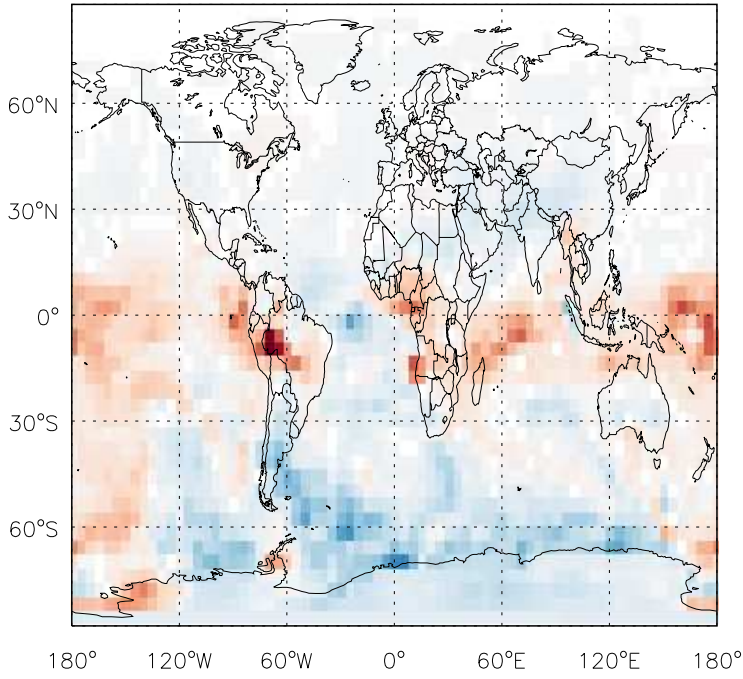
v11-01f-merra2-Run0 / v11-01d-Run1

HOCl / Ratio @ 500 hPa for Jan

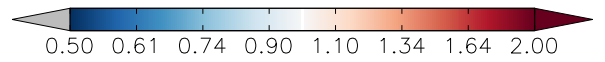
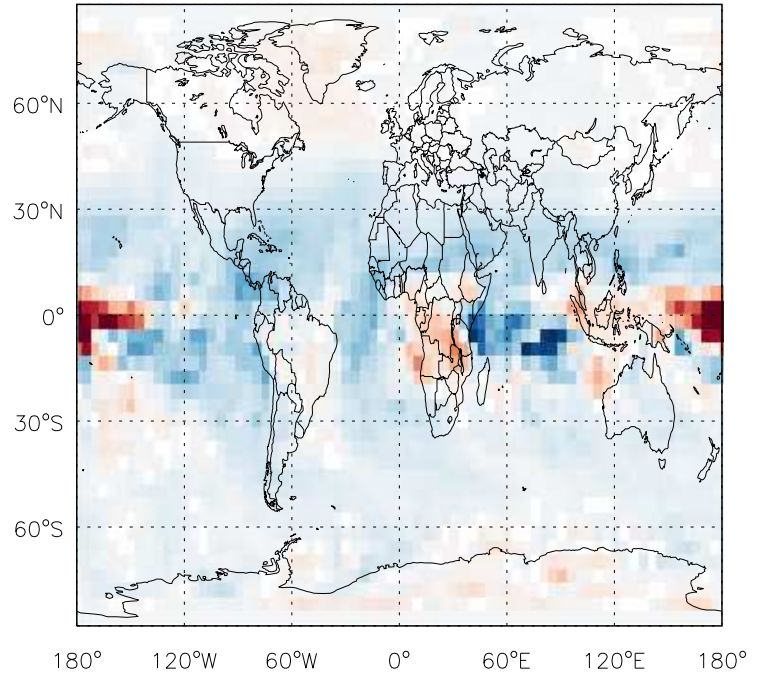


GEOS-Chem Ratio Maps at surface and 500 hPa

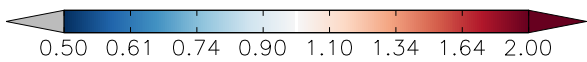
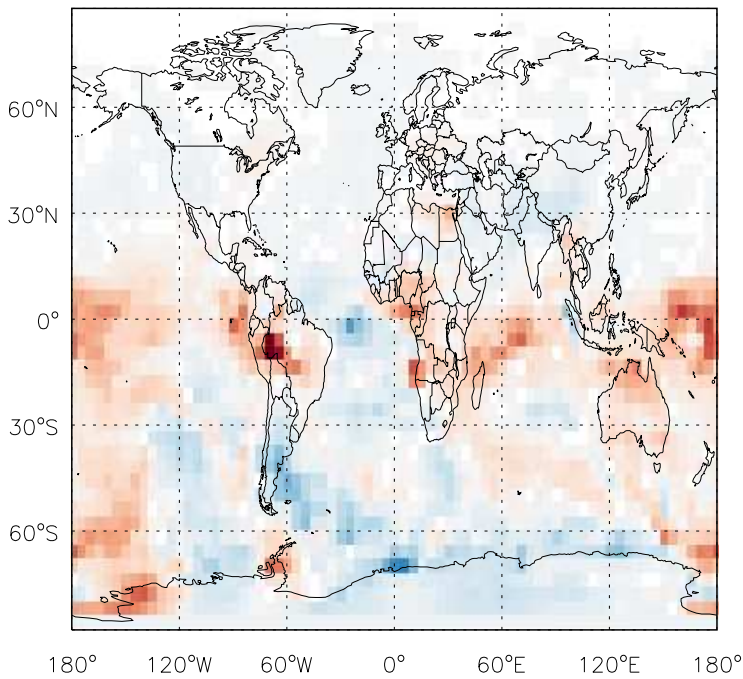
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CIN03 / Ratio @ Surface for Jan



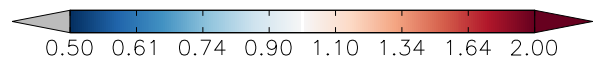
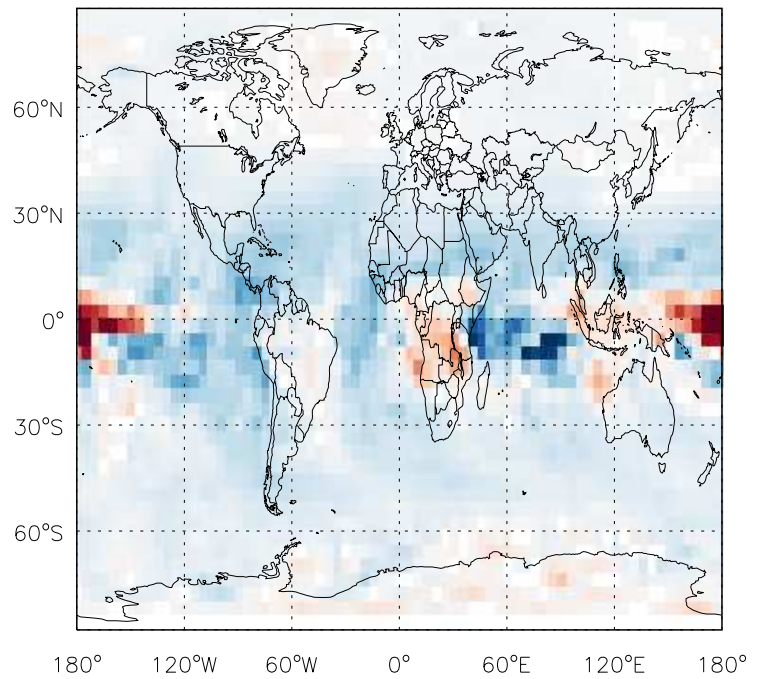
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CIN03/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CIN03 / Ratio @ Surface for Jan

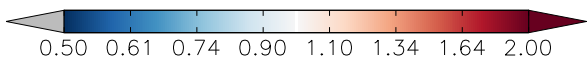
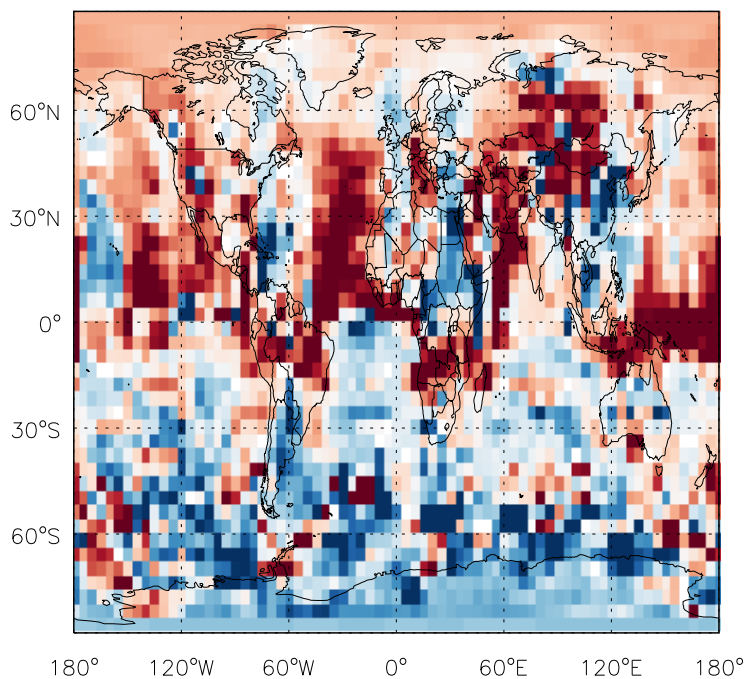


v11-01f-merra2-Run0 / v11-01d-Run1  
CIN03/ Ratio @ 500 hPa for Jan

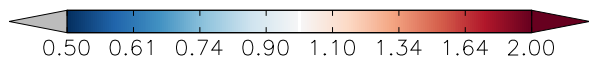
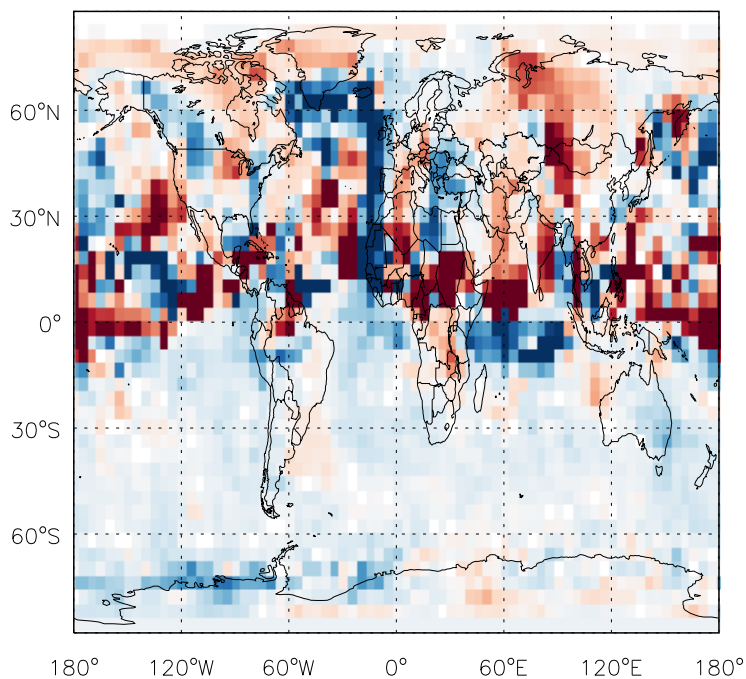


GEOS-Chem Ratio Maps at surface and 500 hPa

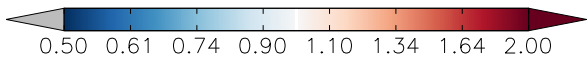
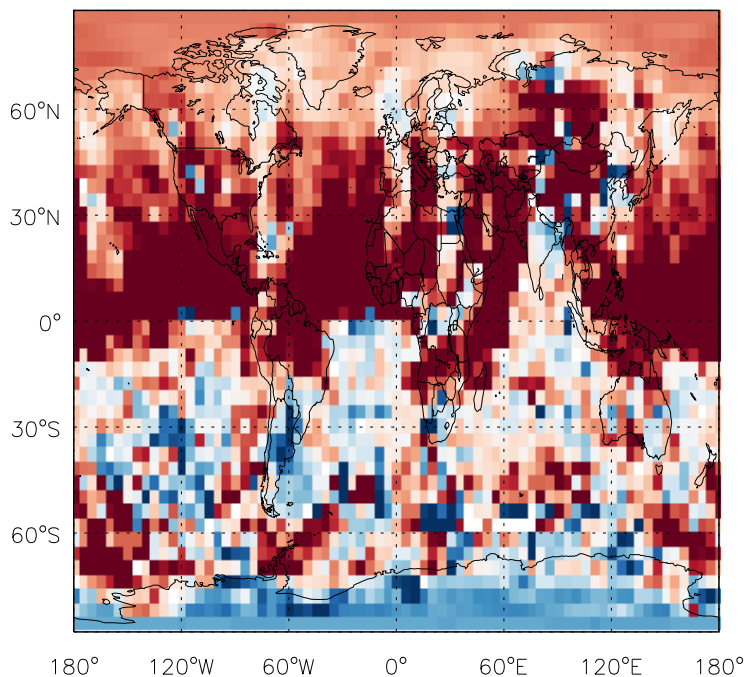
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CIN02 / Ratio @ Surface for Jan



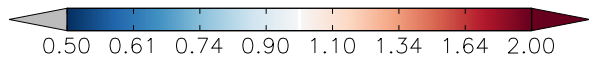
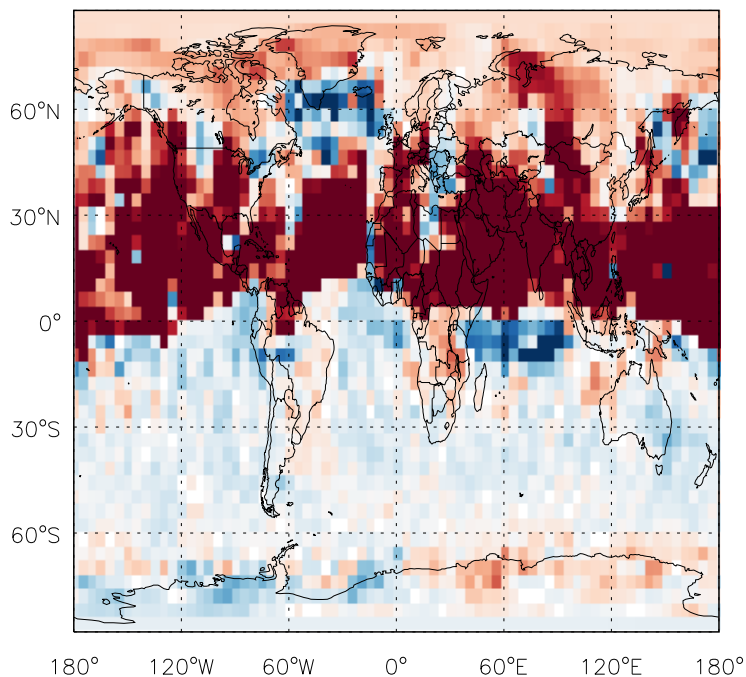
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
CIN02/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
CIN02 / Ratio @ Surface for Jan

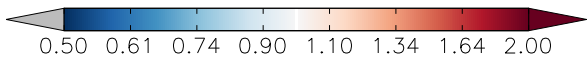
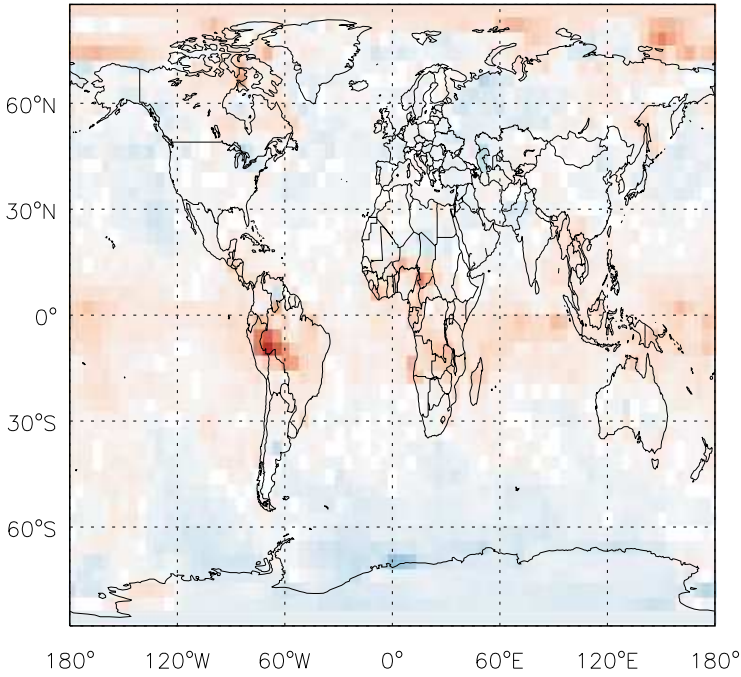


v11-01f-merra2-Run0 / v11-01d-Run1  
CIN02/ Ratio @ 500 hPa for Jan

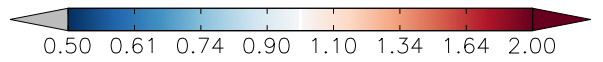
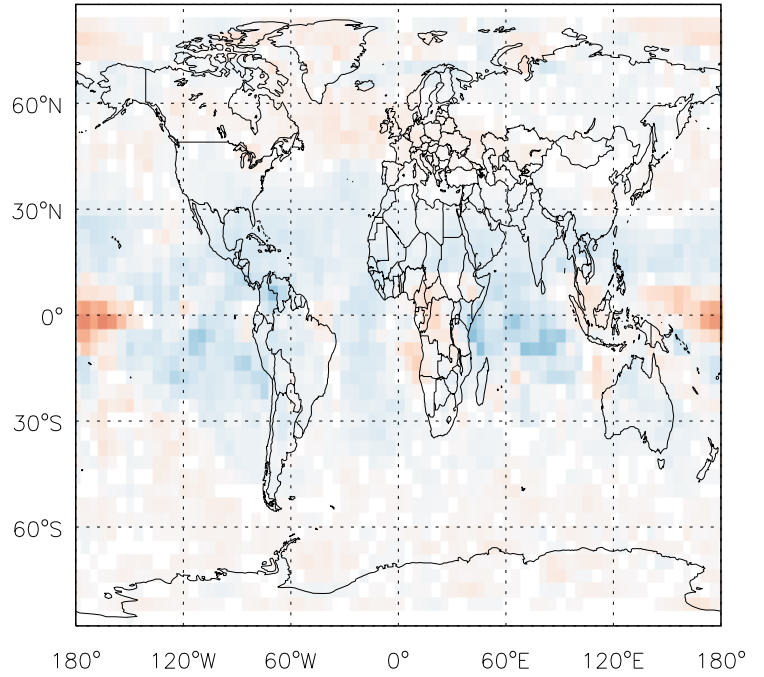


GEOS-Chem Ratio Maps at surface and 500 hPa

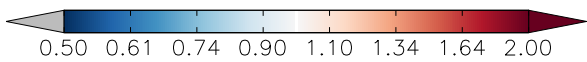
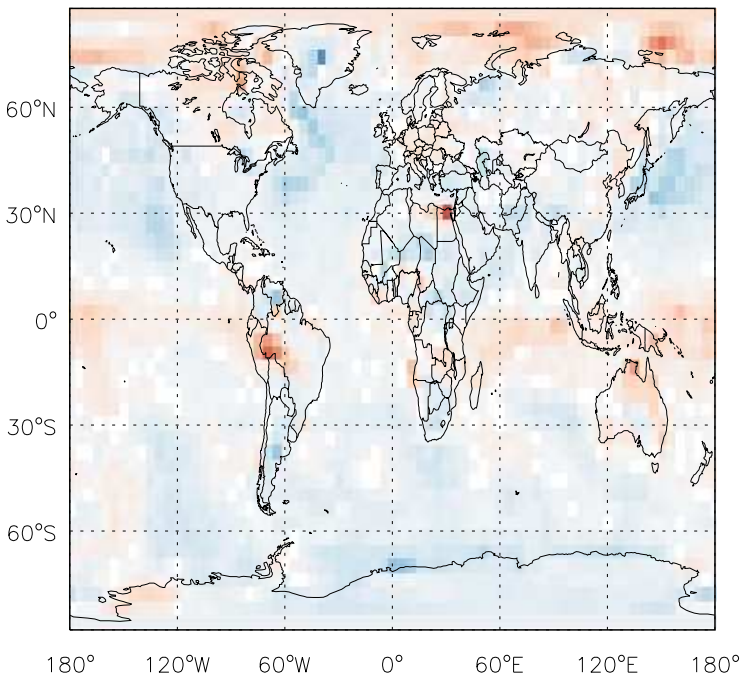
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ClO<sub>2</sub> / Ratio @ Surface for Jan



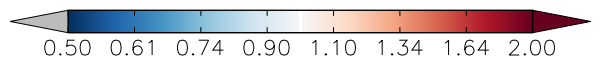
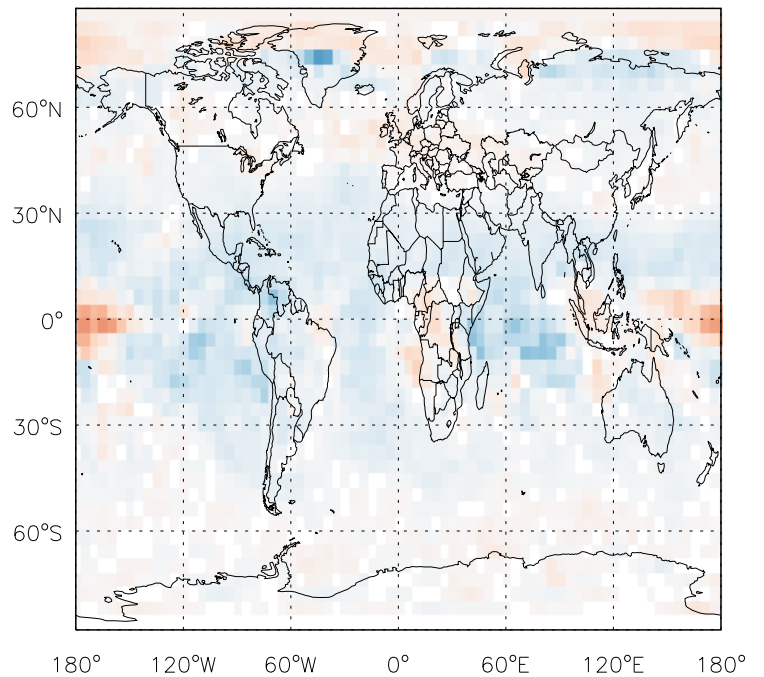
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
ClO<sub>2</sub> / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
ClO<sub>2</sub> / Ratio @ Surface for Jan



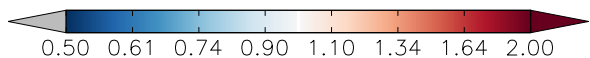
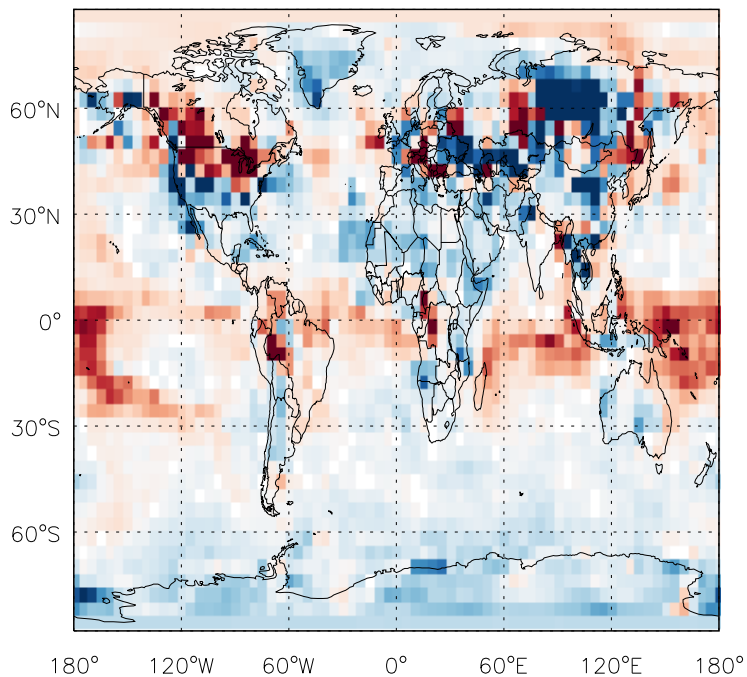
v11-01f-merra2-Run0 / v11-01d-Run1  
ClO<sub>2</sub> / Ratio @ 500 hPa for Jan



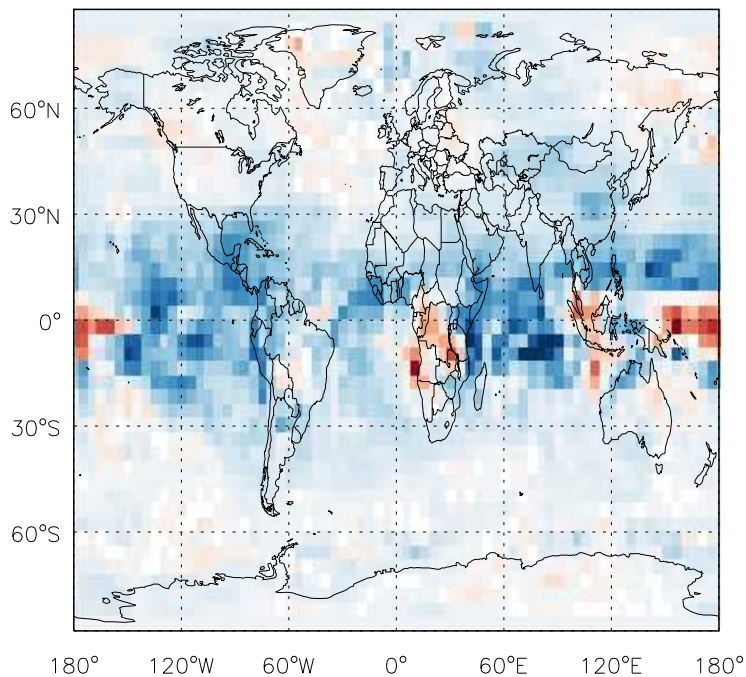


# GEOS-Chem Ratio Maps at surface and 500 hPa

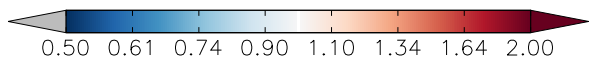
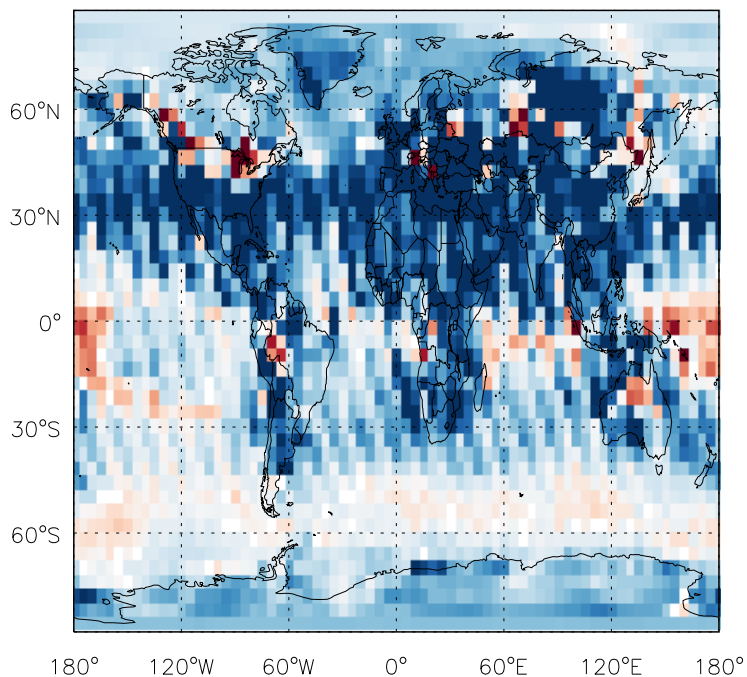
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCIO / Ratio @ Surface for Jan



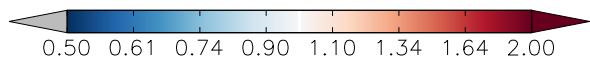
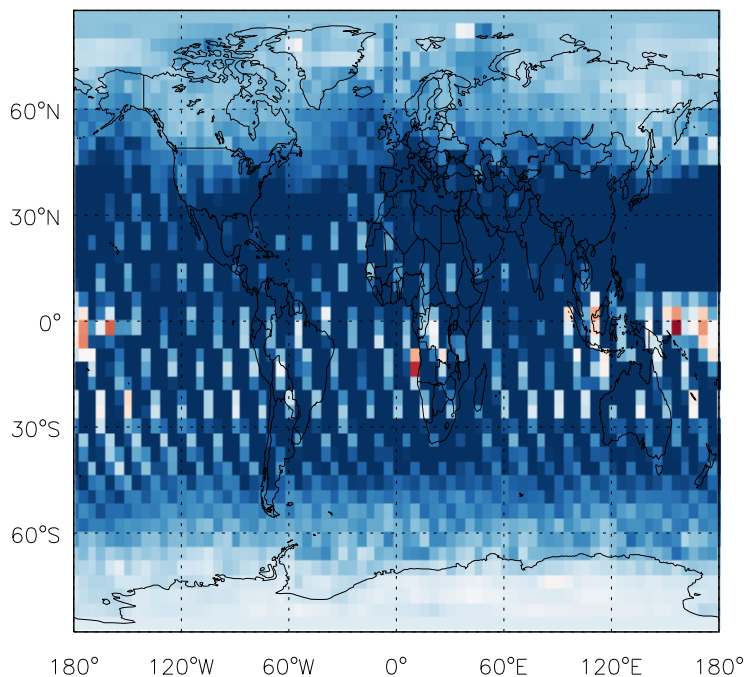
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OCIO/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
OCIO / Ratio @ Surface for Jan

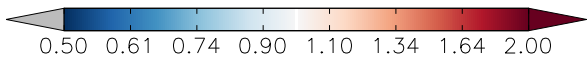
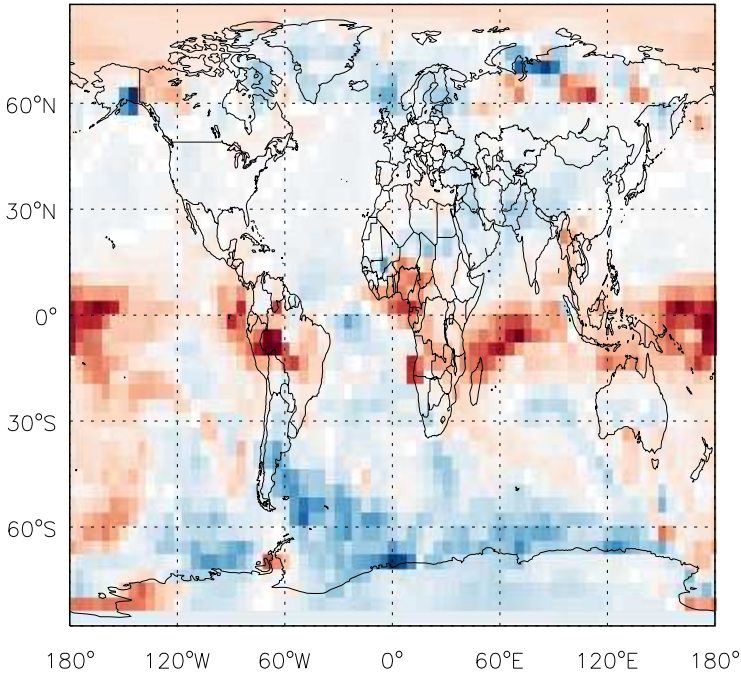


v11-01f-merra2-Run0 / v11-01d-Run1  
OCIO/ Ratio @ 500 hPa for Jan

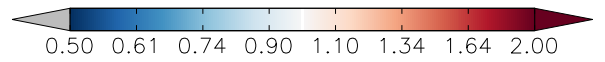
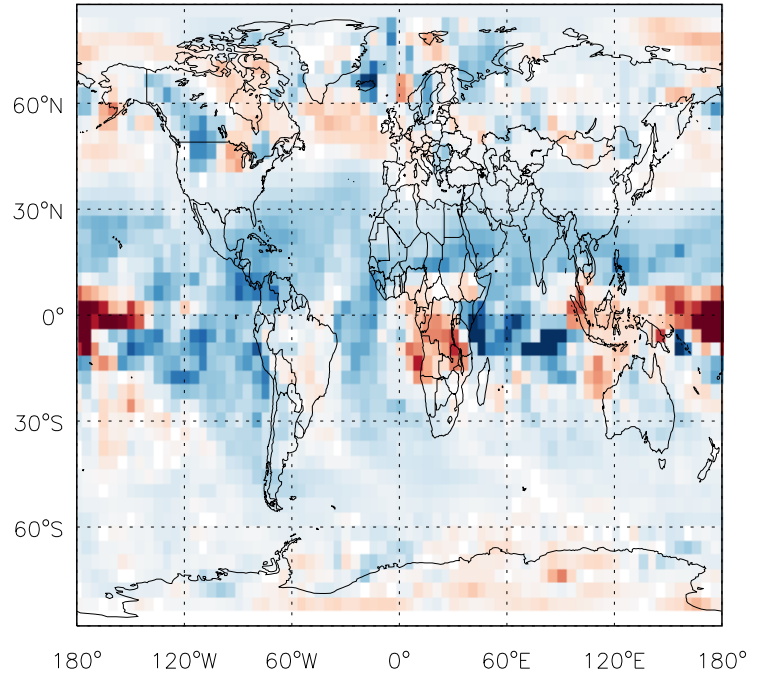


GEOS-Chem Ratio Maps at surface and 500 hPa

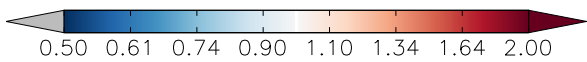
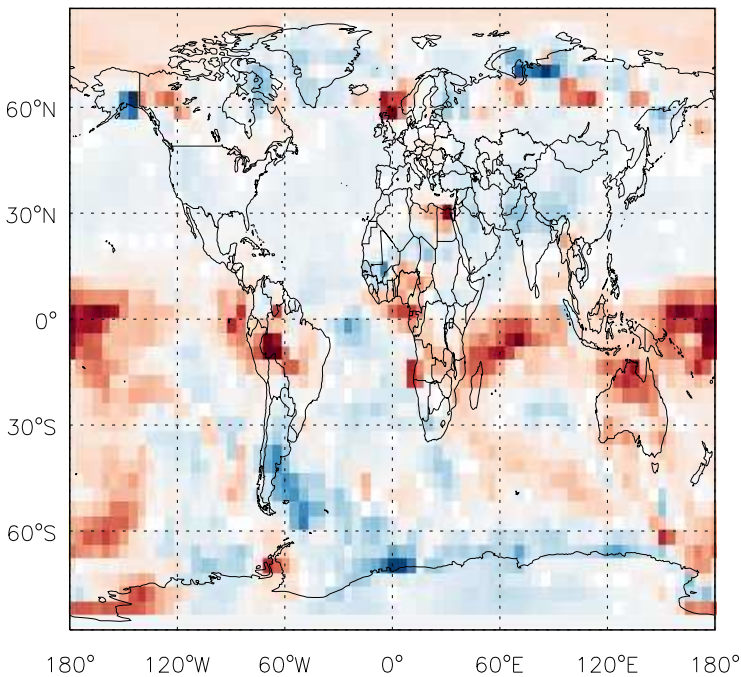
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Cl2 / Ratio @ Surface for Jan



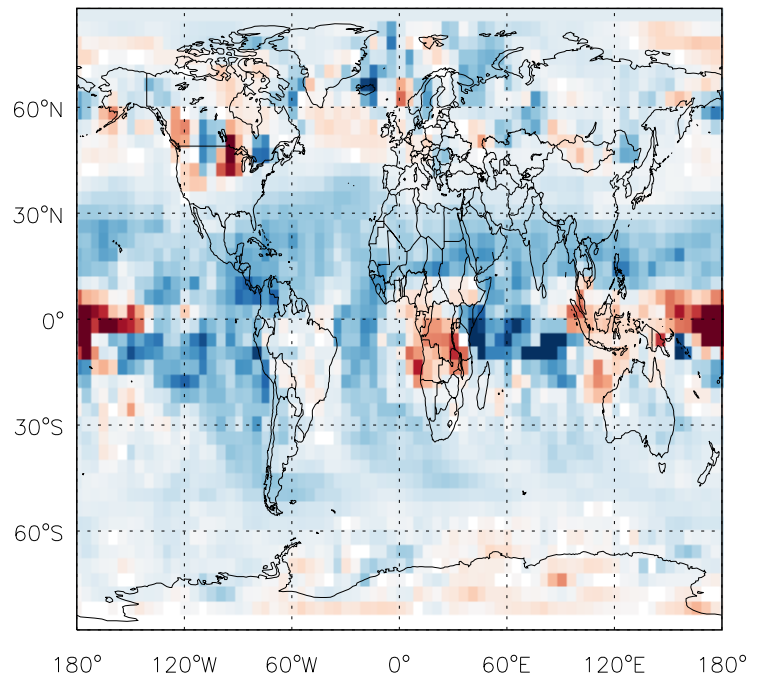
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Cl2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
Cl2 / Ratio @ Surface for Jan

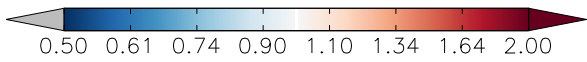
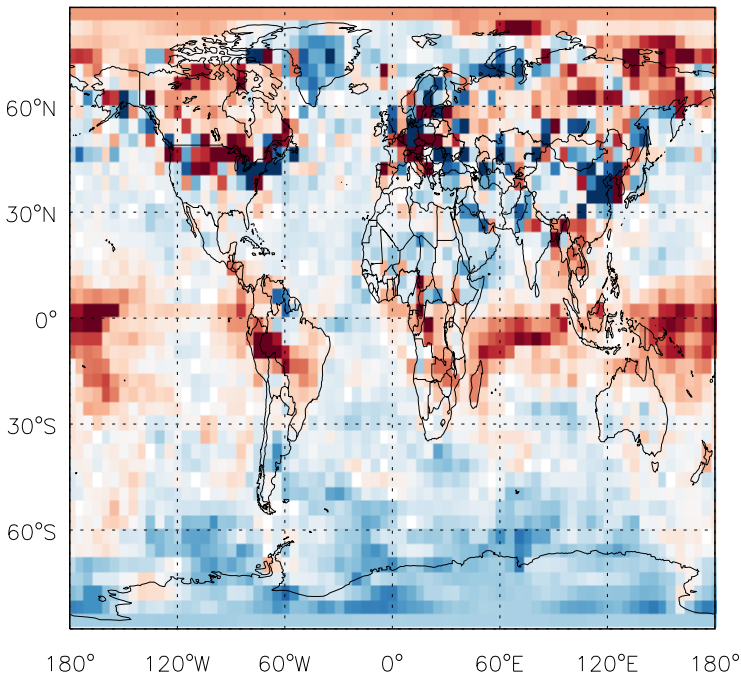


v11-01f-merra2-Run0 / v11-01d-Run1  
Cl2 / Ratio @ 500 hPa for Jan

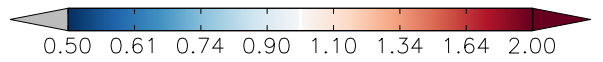
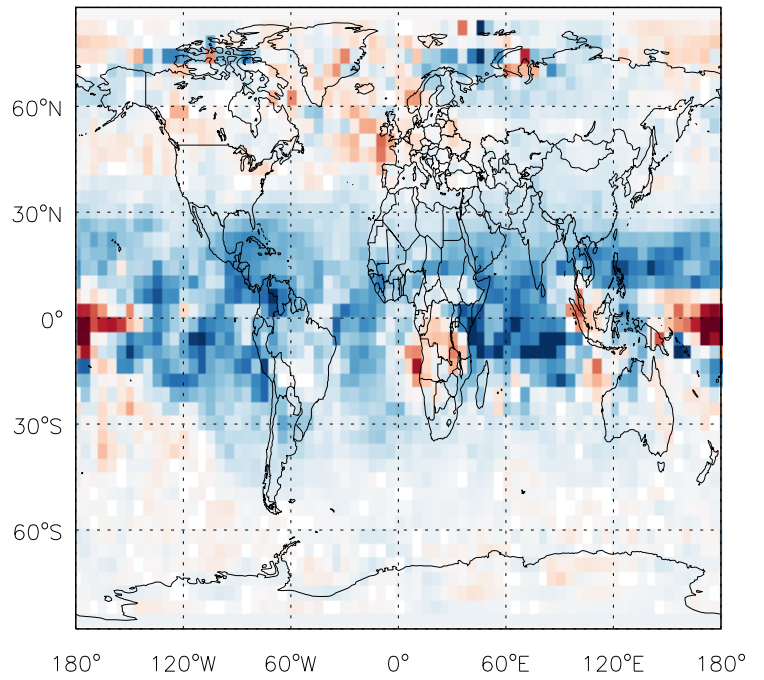


GEOS-Chem Ratio Maps at surface and 500 hPa

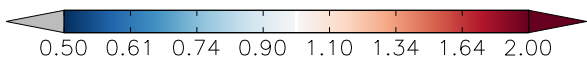
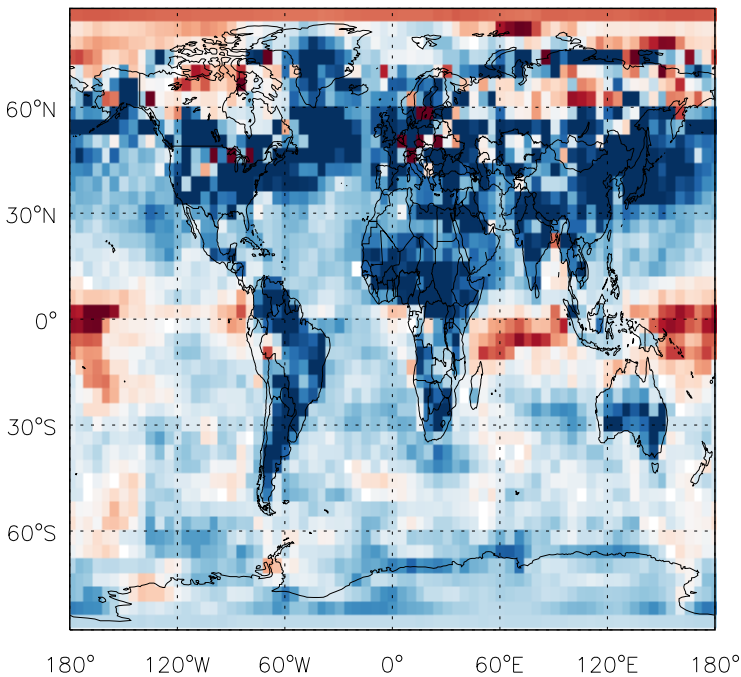
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Cl2O2 / Ratio @ Surface for Jan



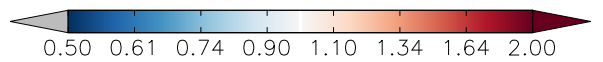
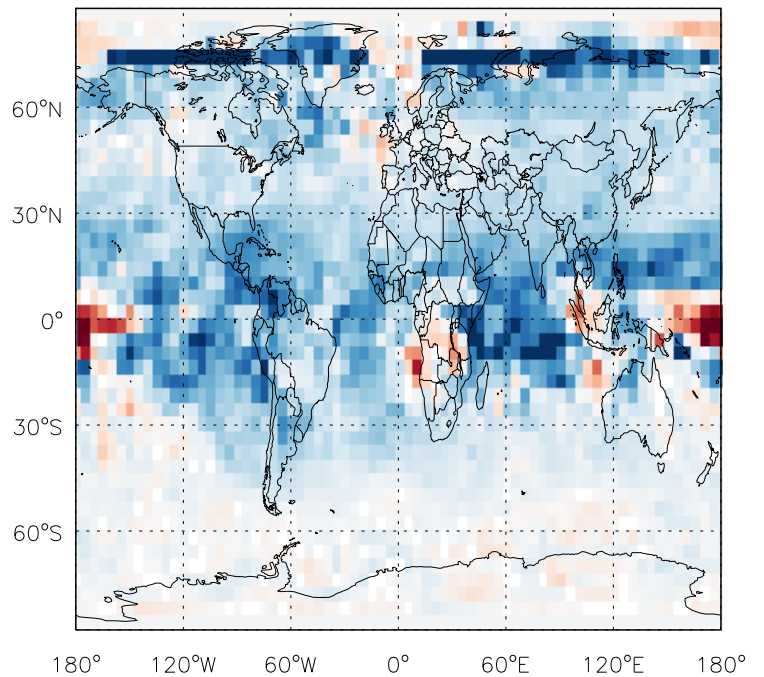
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
Cl2O2 / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
Cl2O2 / Ratio @ Surface for Jan

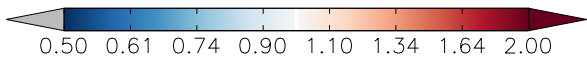
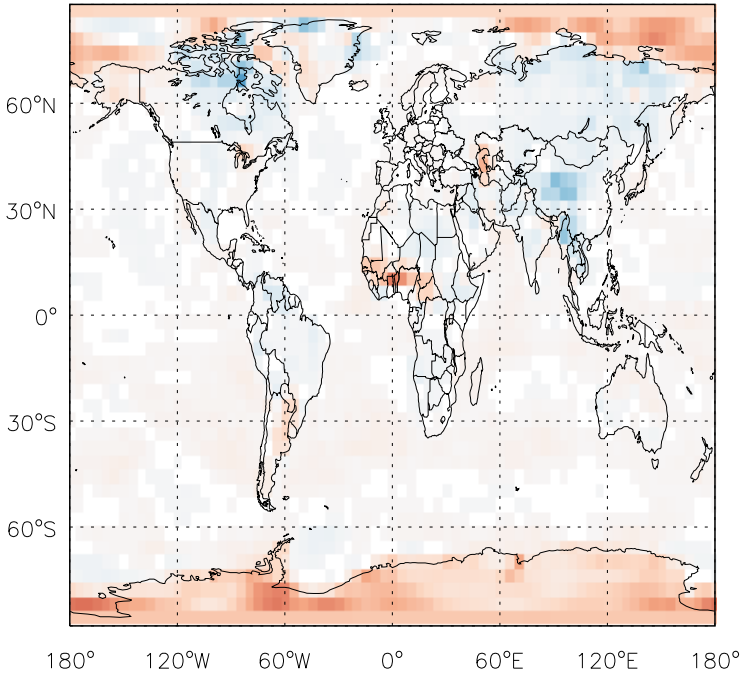


v11-01f-merra2-Run0 / v11-01d-Run1  
Cl2O2 / Ratio @ 500 hPa for Jan

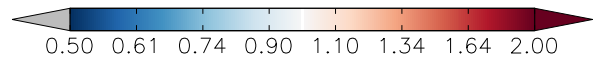
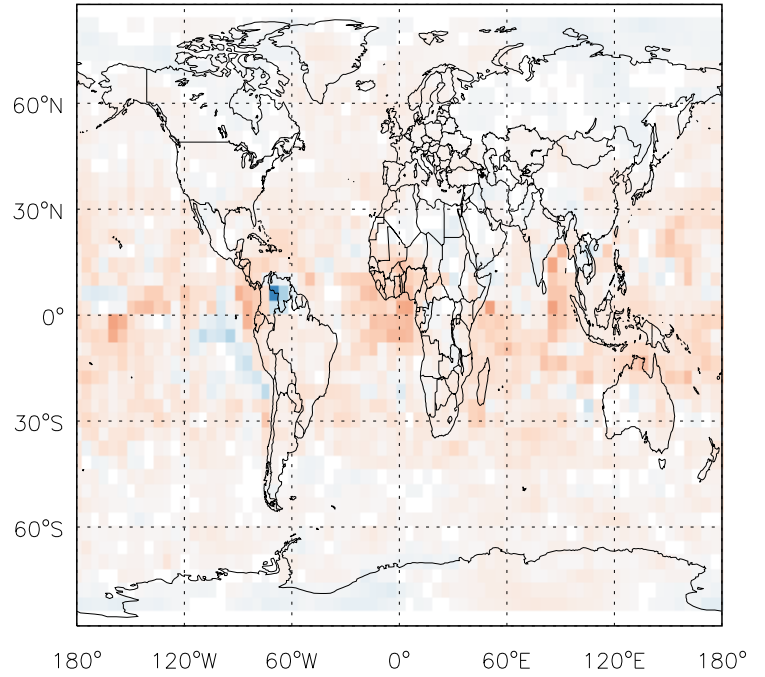


# GEOS-Chem Ratio Maps at surface and 500 hPa

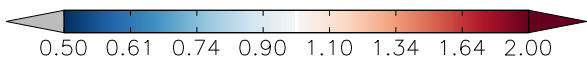
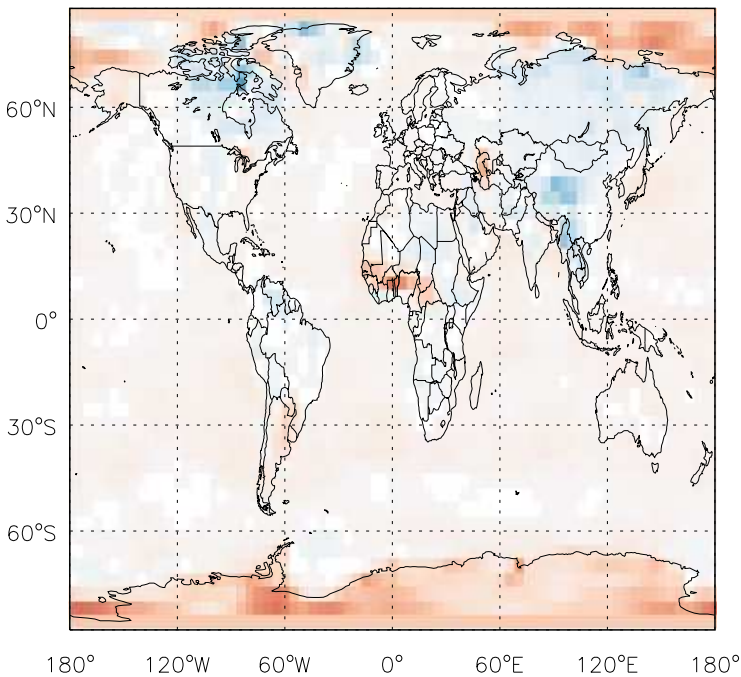
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2O / Ratio @ Surface for Jan



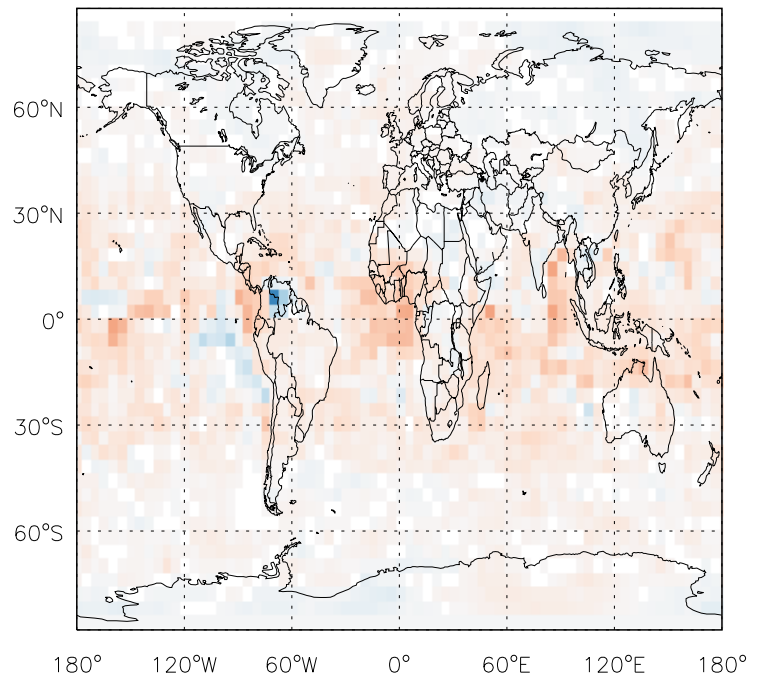
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
H2O/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
H2O / Ratio @ Surface for Jan

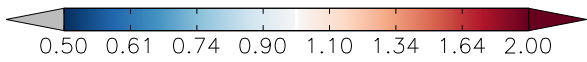
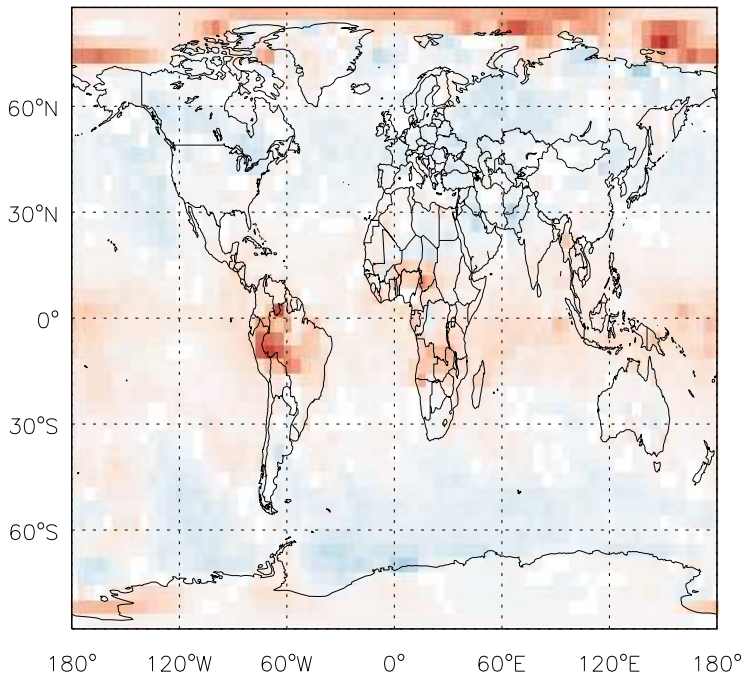


v11-01f-merra2-Run0 / v11-01d-Run1  
H2O/ Ratio @ 500 hPa for Jan

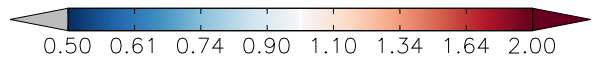
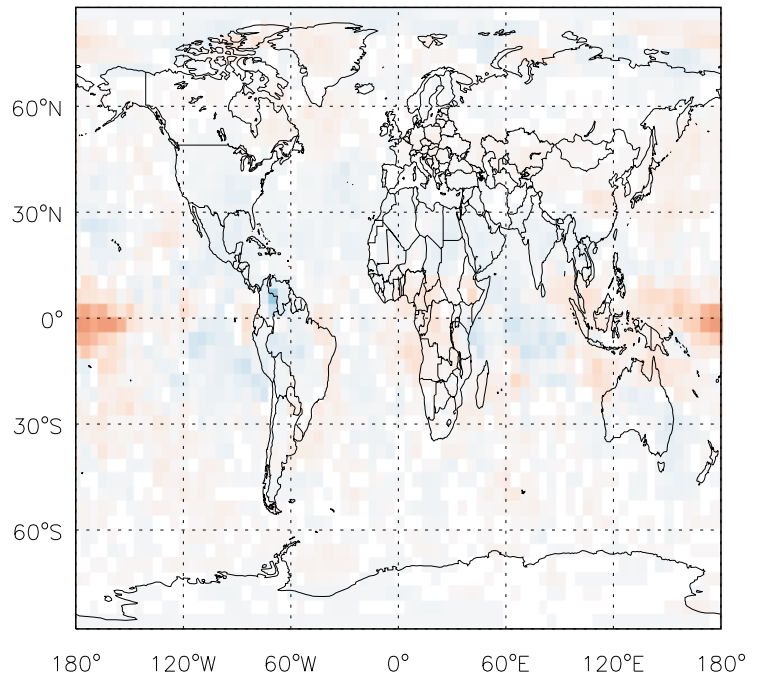


# GEOS-Chem Ratio Maps at surface and 500 hPa

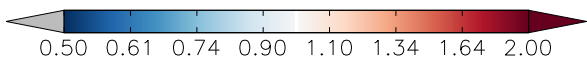
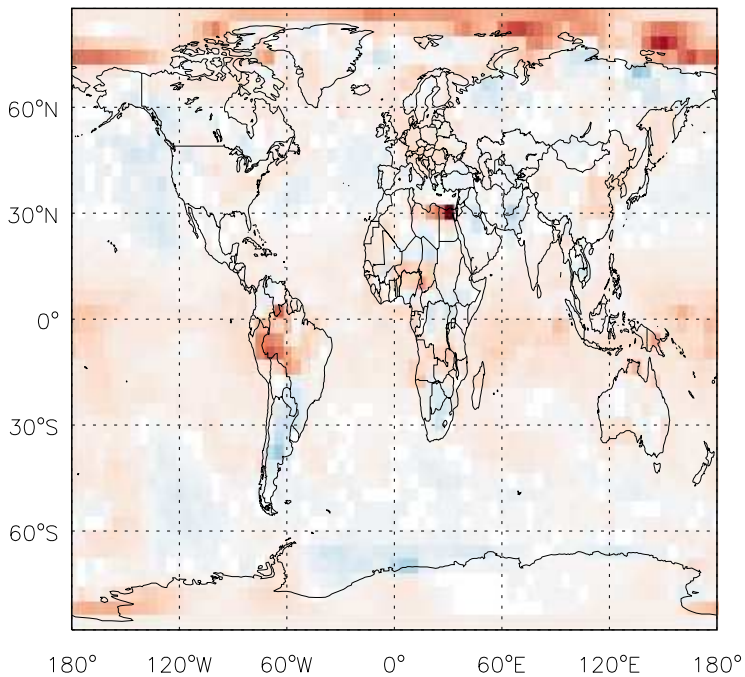
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OH / Ratio @ Surface for Jan



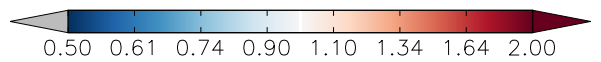
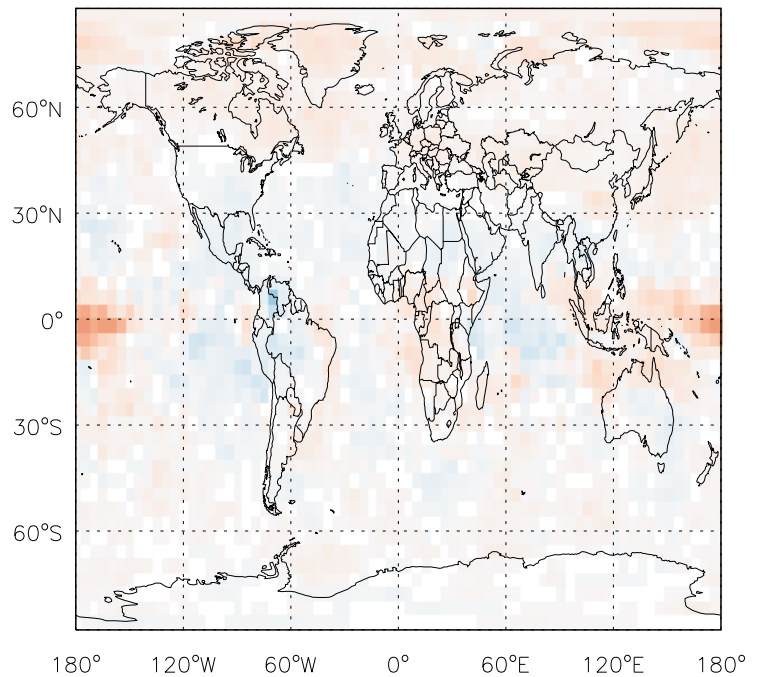
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
OH/ Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
OH / Ratio @ Surface for Jan

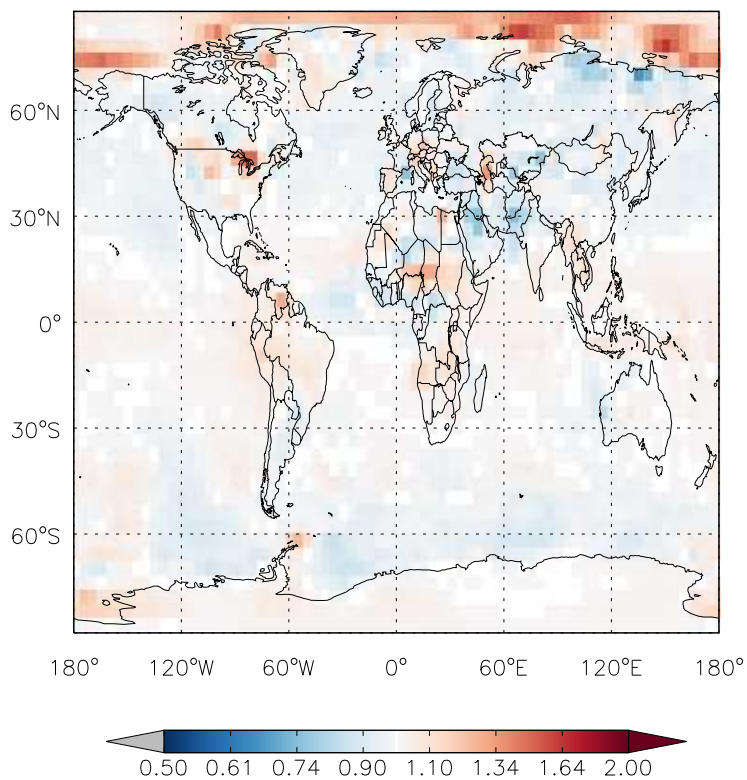


v11-01f-merra2-Run0 / v11-01d-Run1  
OH/ Ratio @ 500 hPa for Jan

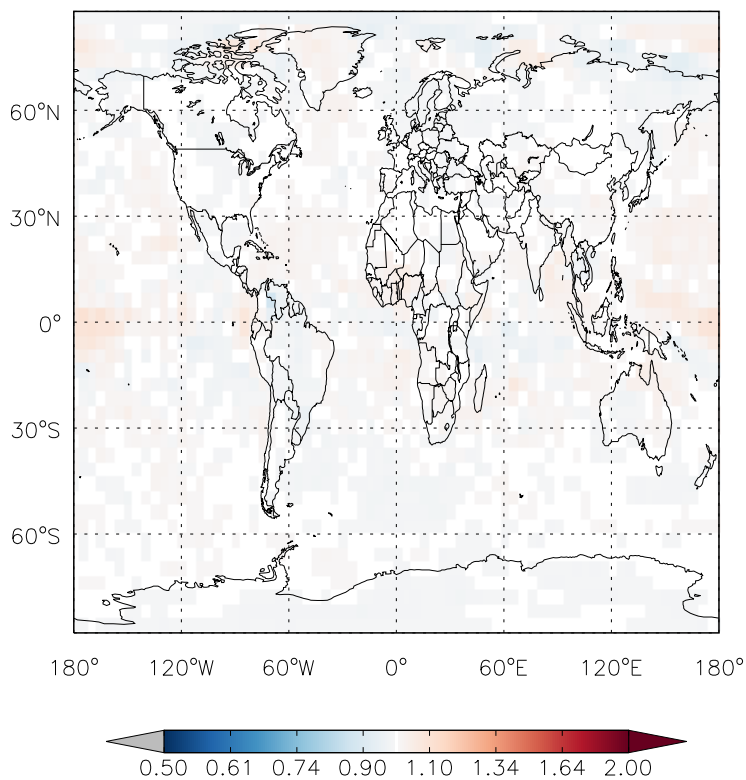


# GEOS-Chem Ratio Maps at surface and 500 hPa

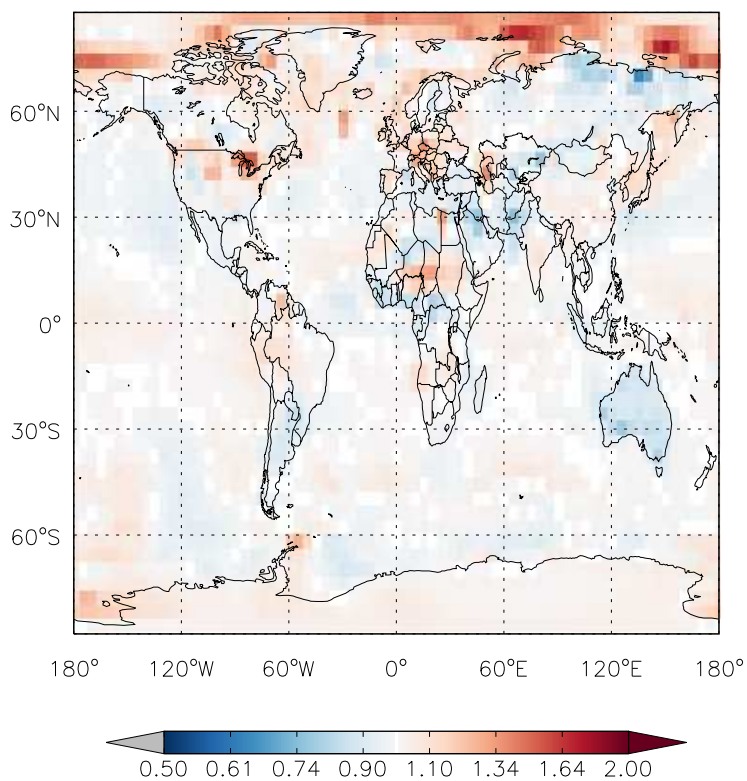
v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HO<sub>2</sub> / Ratio @ Surface for Jan



v11-01f-merra2-Run0 / v11-01f-geosfp-Run0  
HO<sub>2</sub> / Ratio @ 500 hPa for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HO<sub>2</sub> / Ratio @ Surface for Jan



v11-01f-merra2-Run0 / v11-01d-Run1  
HO<sub>2</sub> / Ratio @ 500 hPa for Jan

