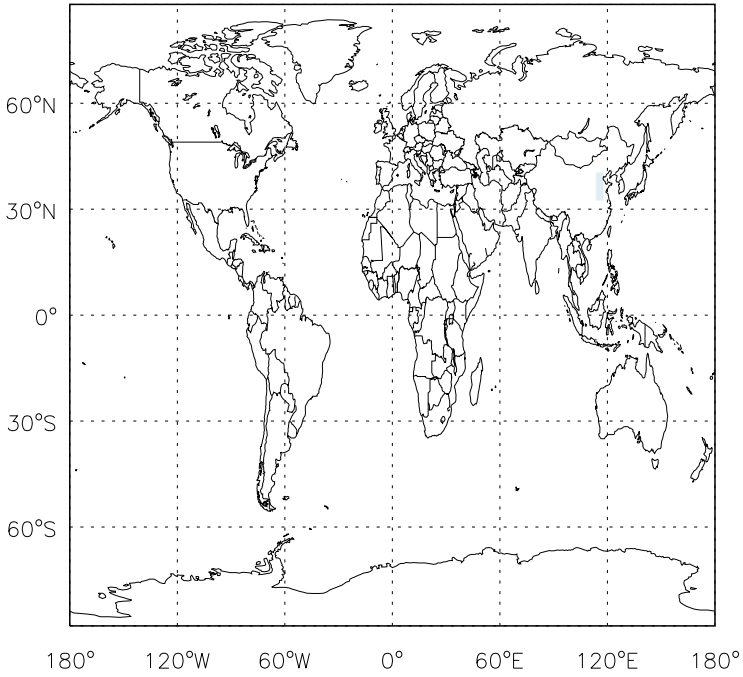


# GEOS-Chem Difference Maps at surface and 500 hPa

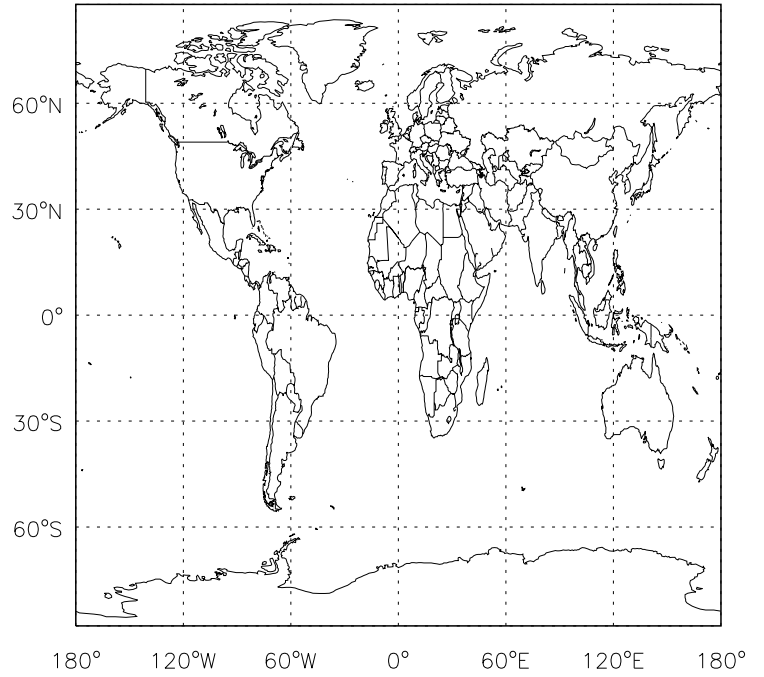
v11-01g-Run0 - v11-01f-geosfp-Run0

NO - Diff @ Surface for Jan



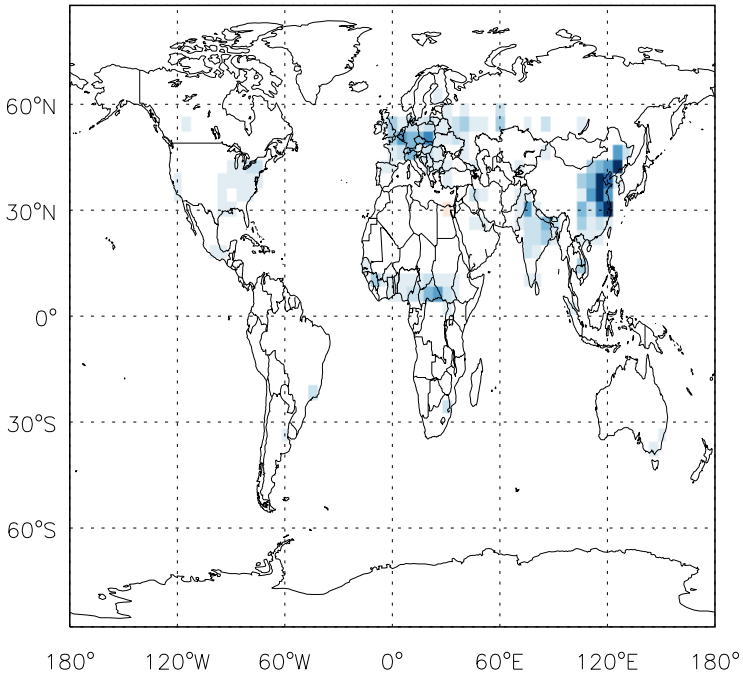
v11-01g-Run0 - v11-01f-geosfp-Run0

NO- Diff @ 500 hPa for Jan



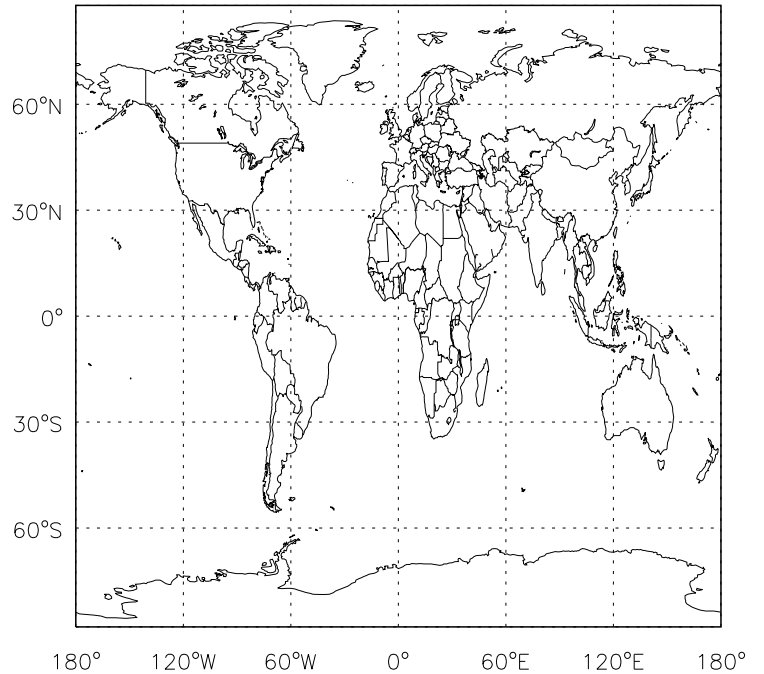
v11-01g-Run0 - v11-01d-Run1

NO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

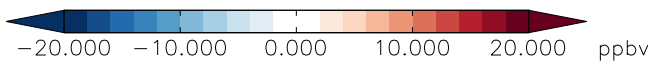
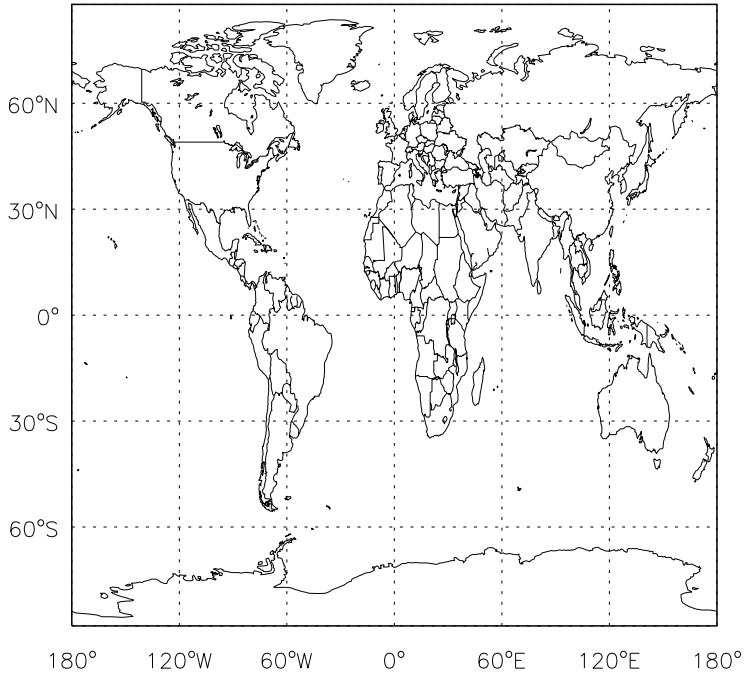
NO- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

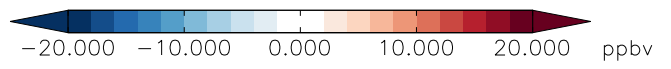
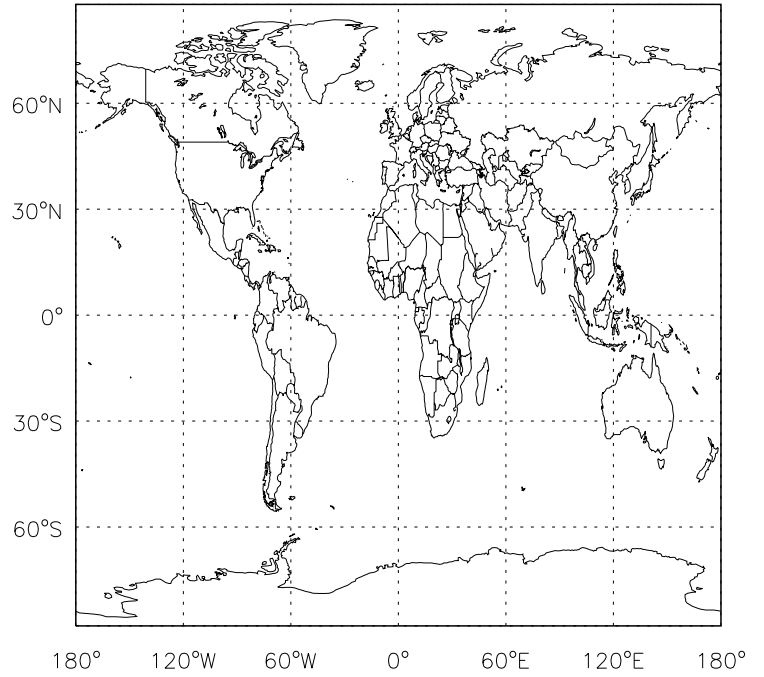
v11-01g-Run0 - v11-01f-geosfp-Run0

O3 - Diff @ Surface for Jan



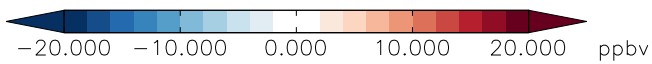
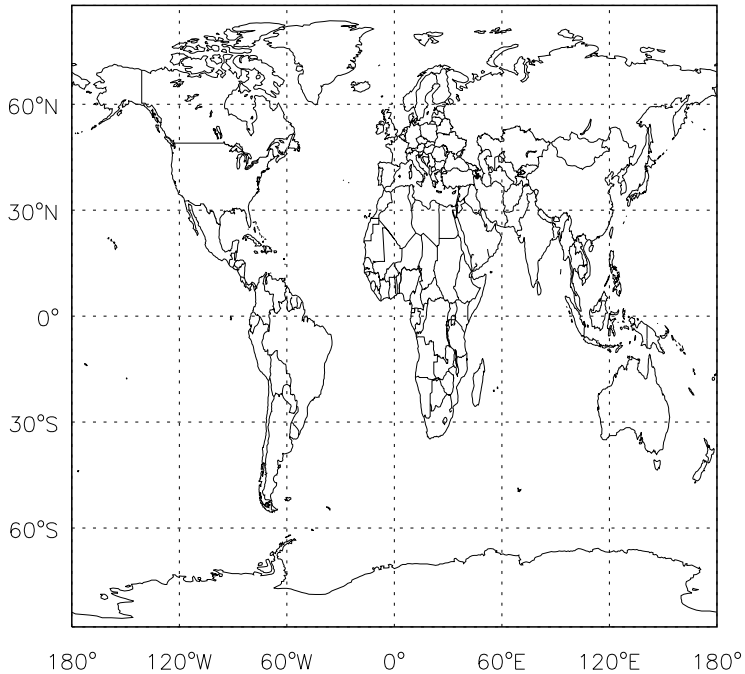
v11-01g-Run0 - v11-01f-geosfp-Run0

O3- Diff @ 500 hPa for Jan



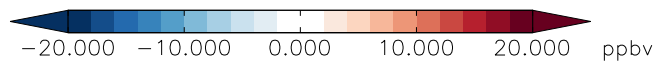
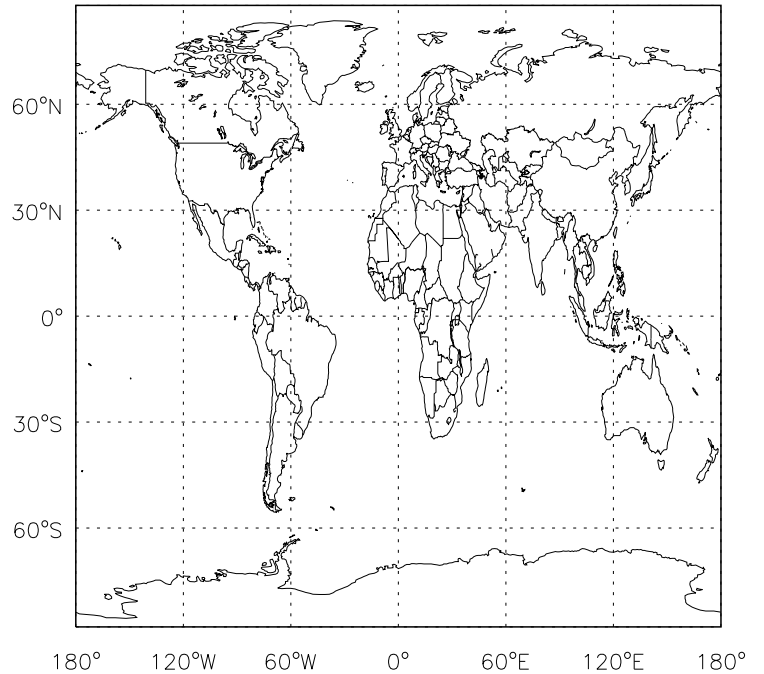
v11-01g-Run0 - v11-01d-Run1

O3 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

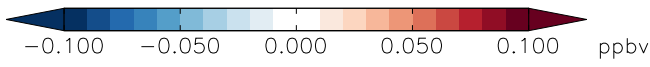
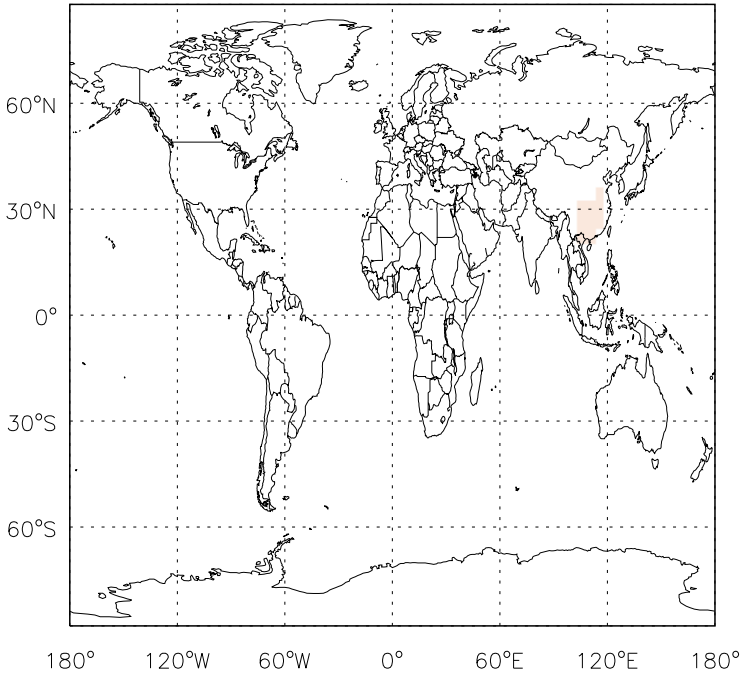
O3- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

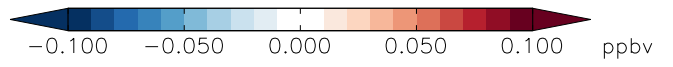
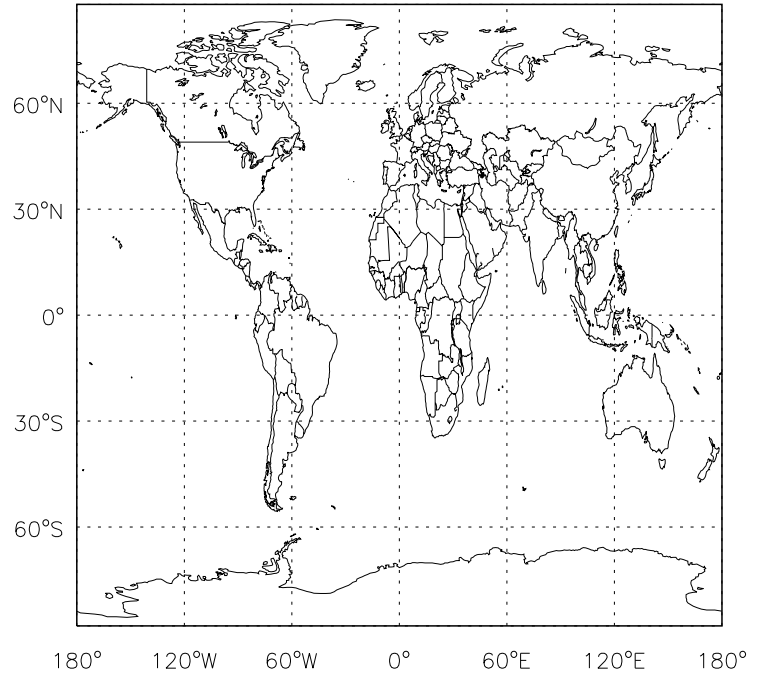
v11-01g-Run0 - v11-01f-geosfp-Run0

PAN - Diff @ Surface for Jan



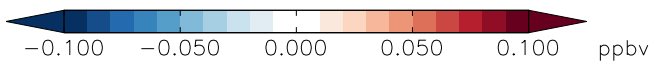
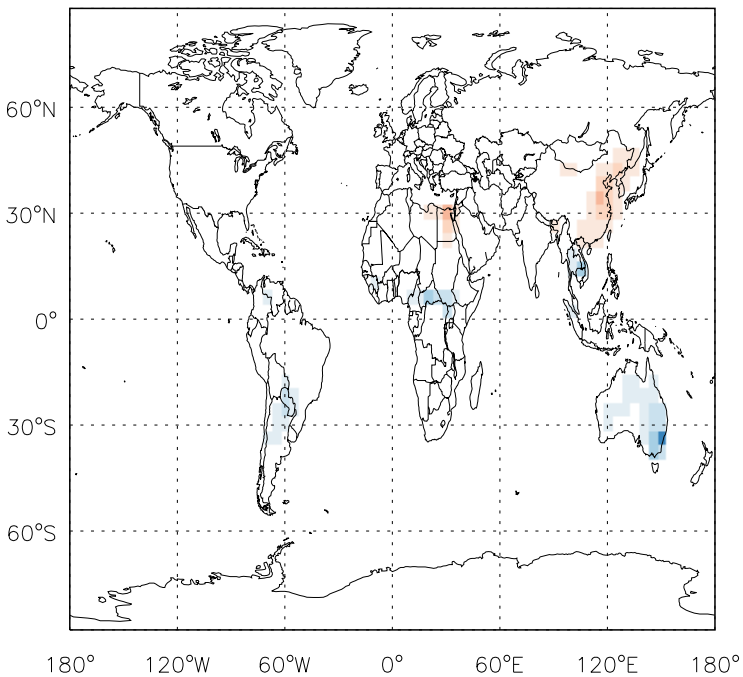
v11-01g-Run0 - v11-01f-geosfp-Run0

PAN- Diff @ 500 hPa for Jan



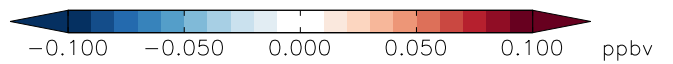
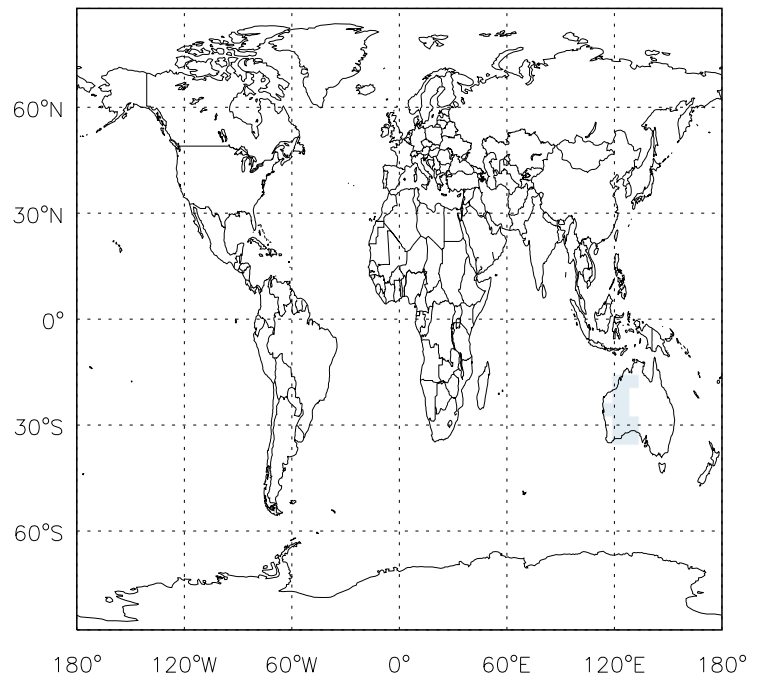
v11-01g-Run0 - v11-01d-Run1

PAN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

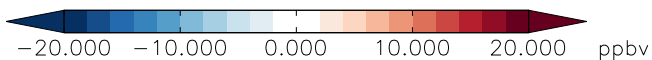
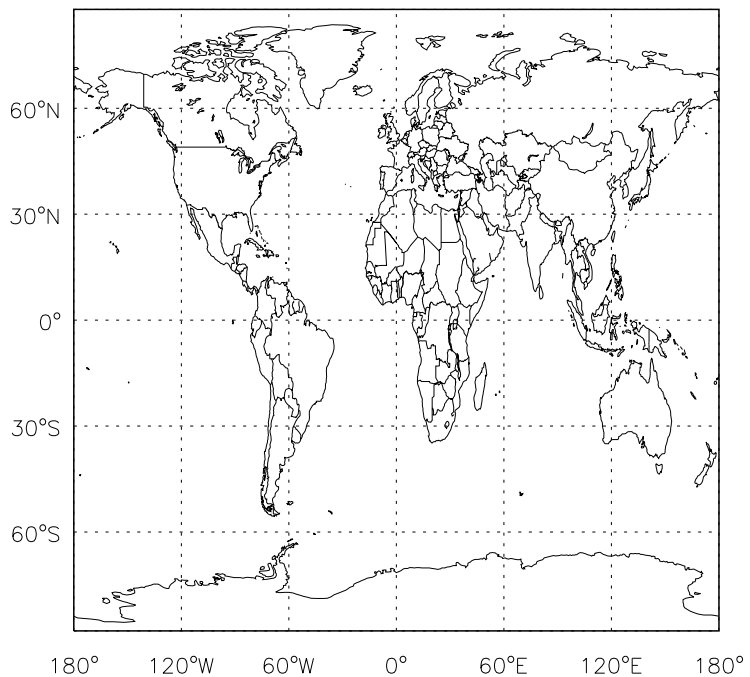
PAN- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

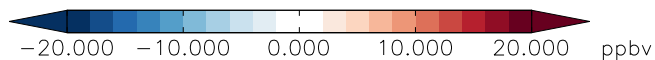
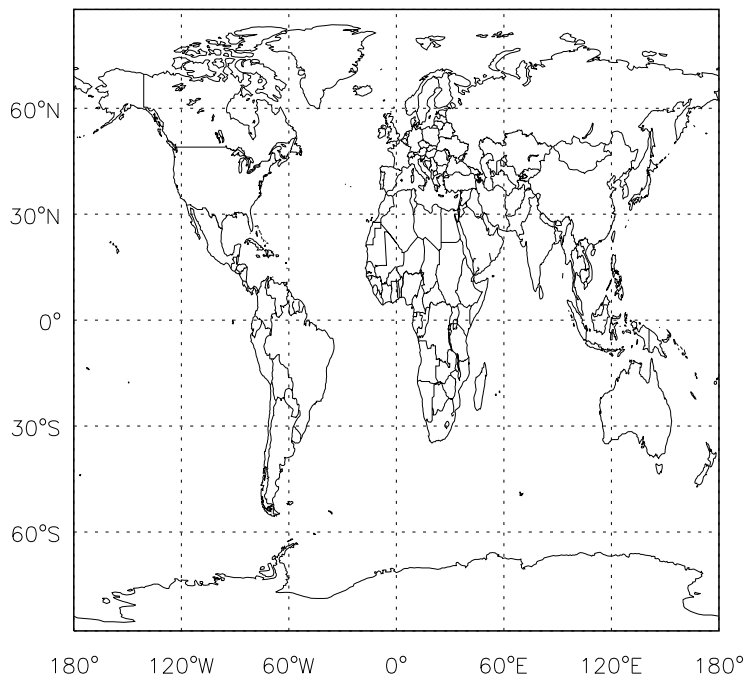
v11-01g-Run0 - v11-01f-geosfp-Run0

CO - Diff @ Surface for Jan



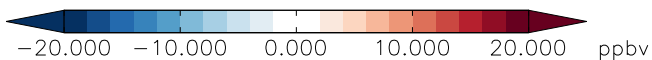
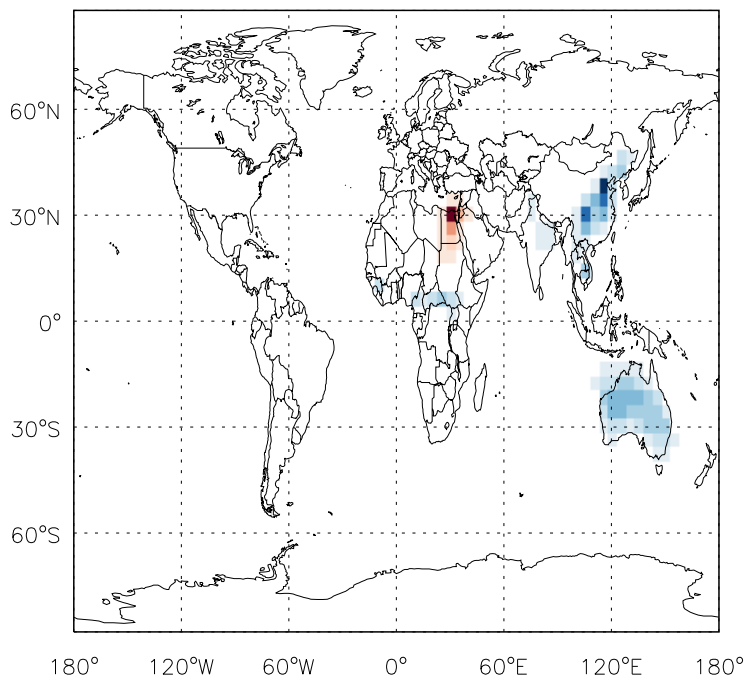
v11-01g-Run0 - v11-01f-geosfp-Run0

CO- Diff @ 500 hPa for Jan



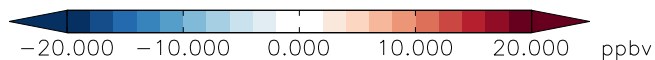
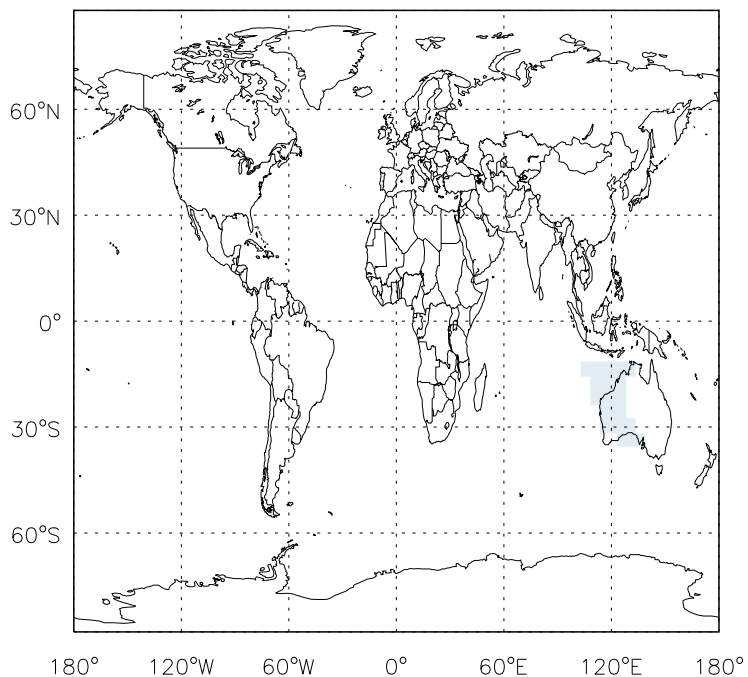
v11-01g-Run0 - v11-01d-Run1

CO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

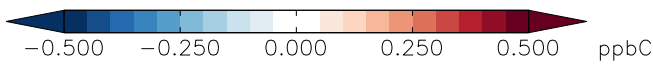
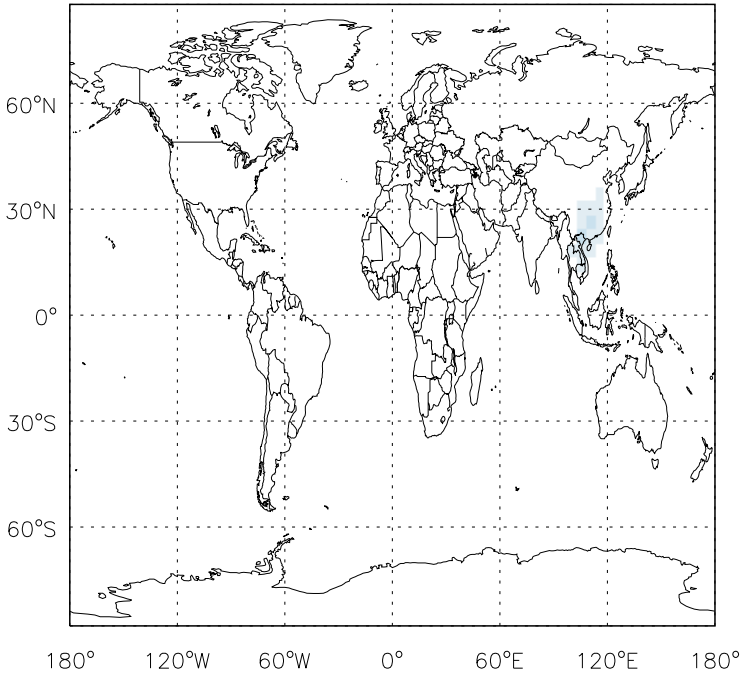
CO- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

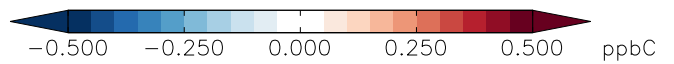
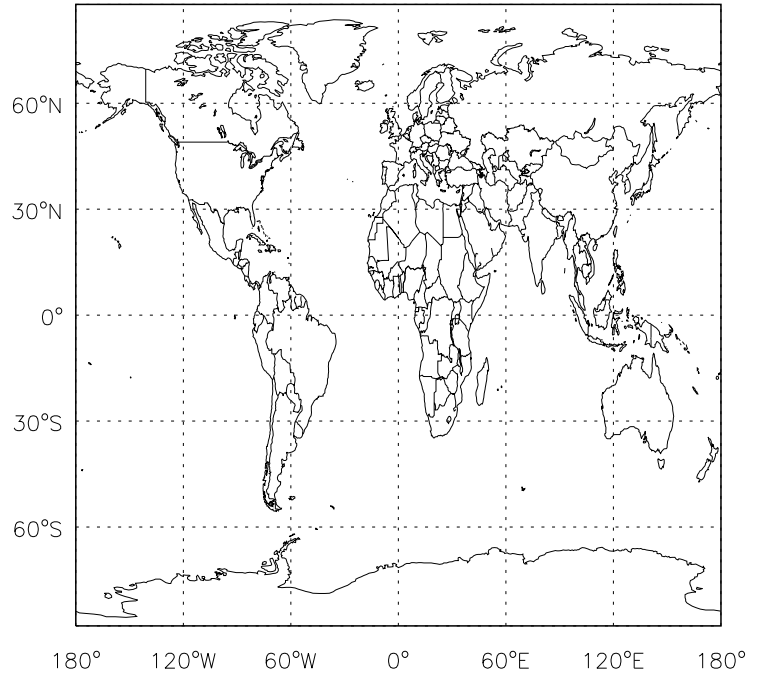
v11-01g-Run0 - v11-01f-geosfp-Run0

ALK4 - Diff @ Surface for Jan



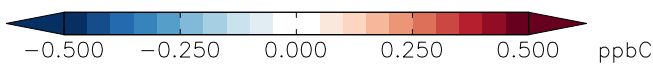
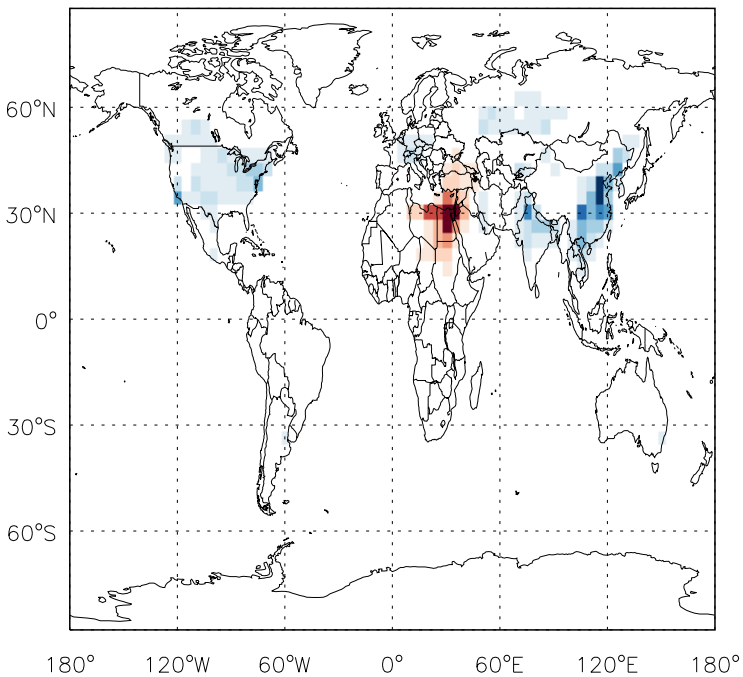
v11-01g-Run0 - v11-01f-geosfp-Run0

ALK4 - Diff @ 500 hPa for Jan



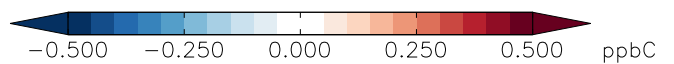
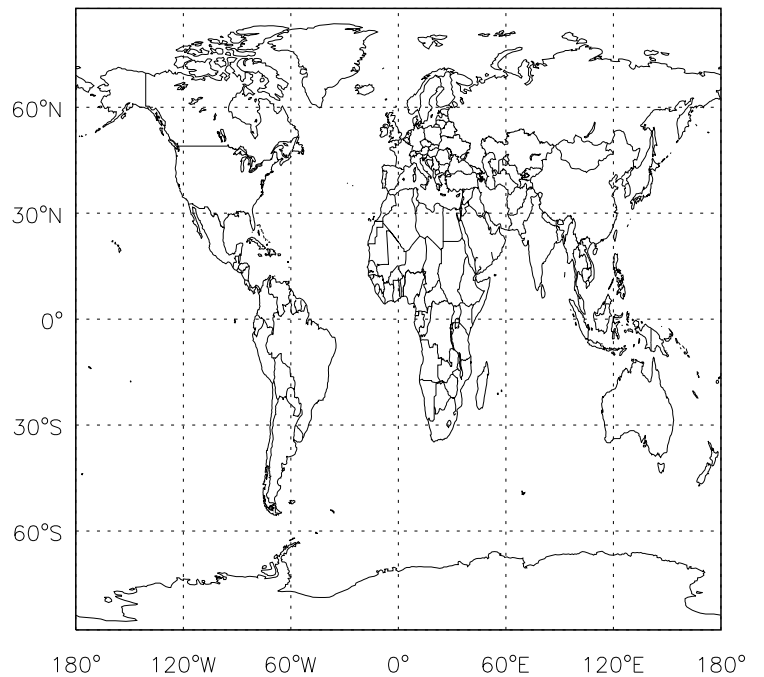
v11-01g-Run0 - v11-01d-Run1

ALK4 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

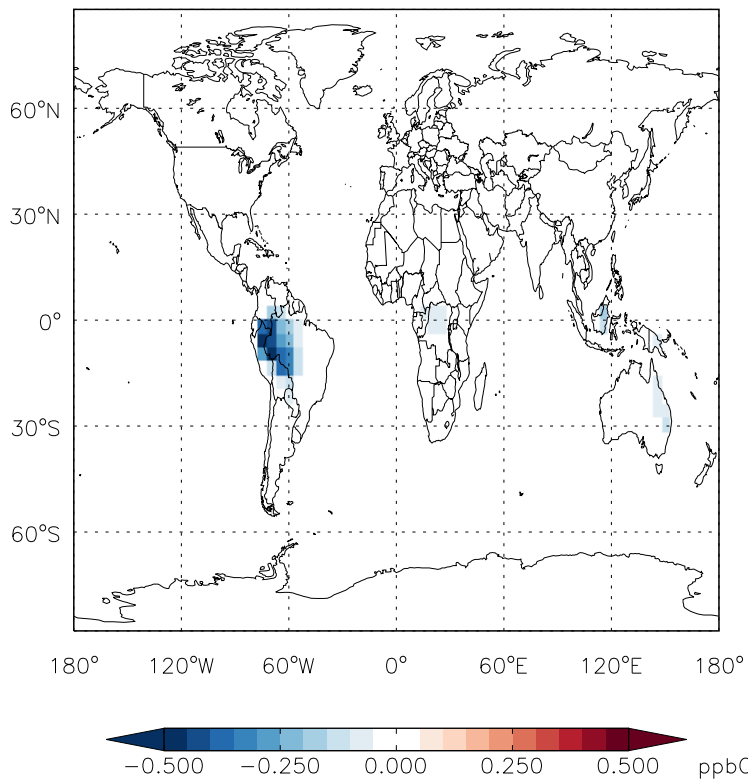
ALK4 - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

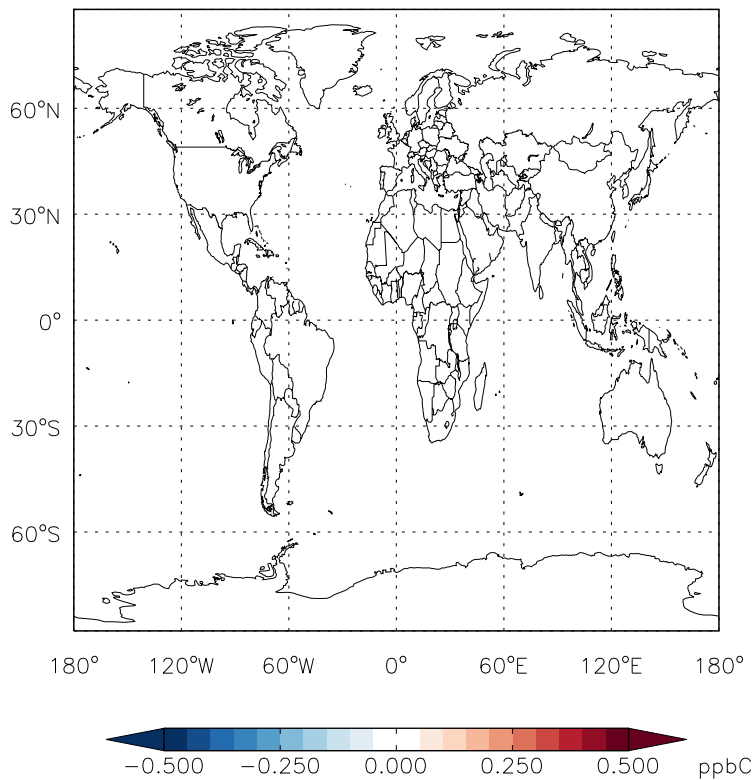
v11-01g-Run0 - v11-01f-geosfp-Run0

ISOP - Diff @ Surface for Jan



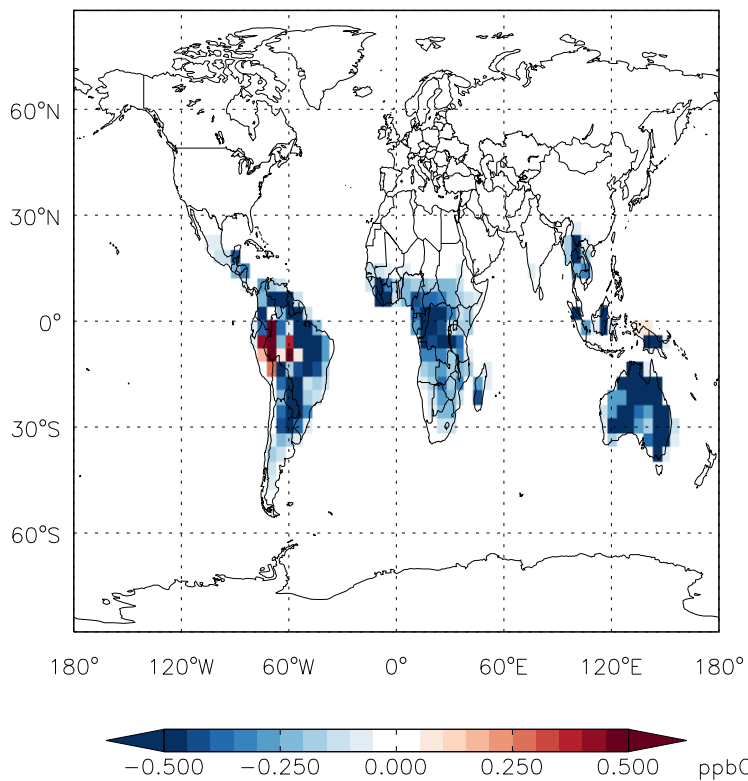
v11-01g-Run0 - v11-01f-geosfp-Run0

ISOP - Diff @ 500 hPa for Jan



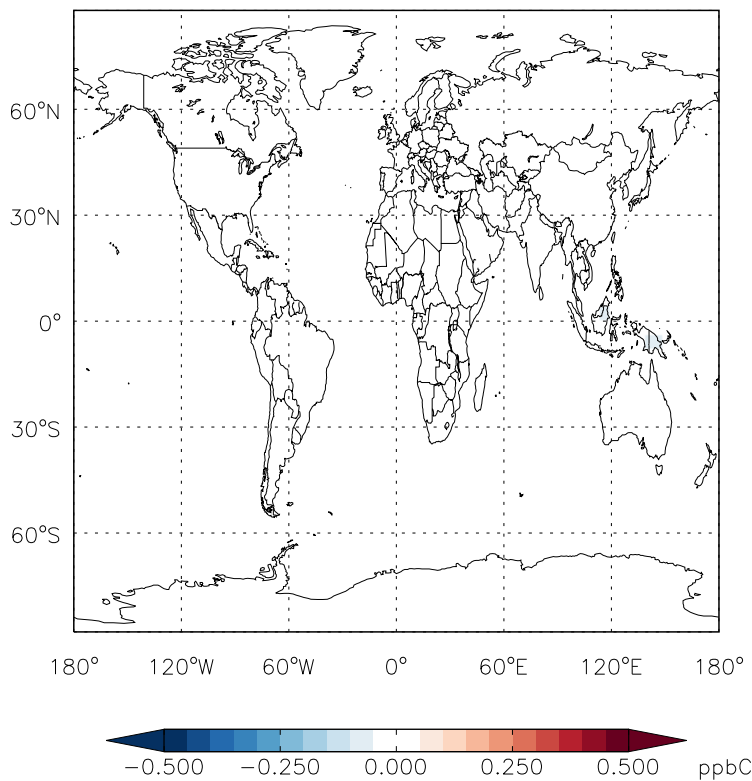
v11-01g-Run0 - v11-01d-Run1

ISOP - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

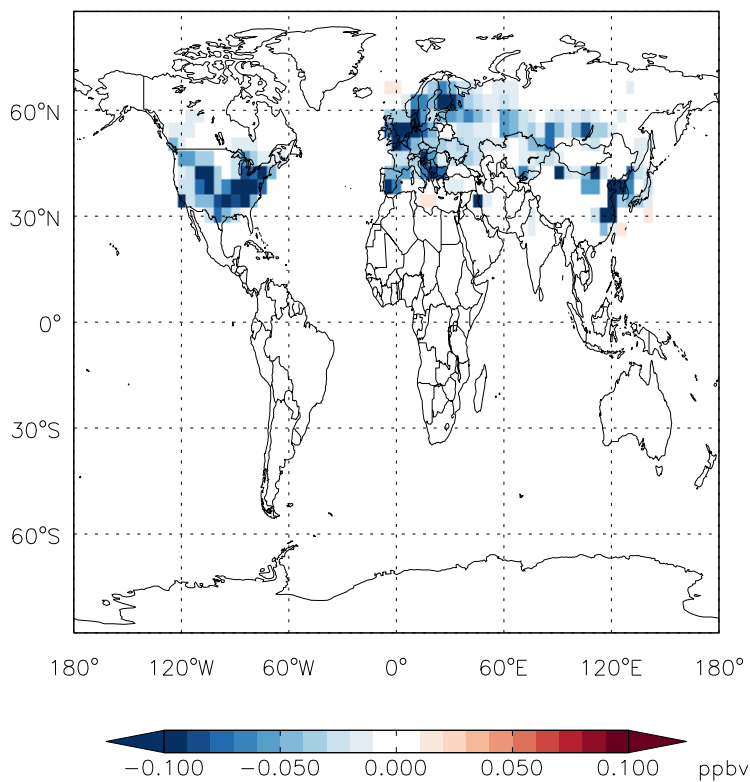
ISOP - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

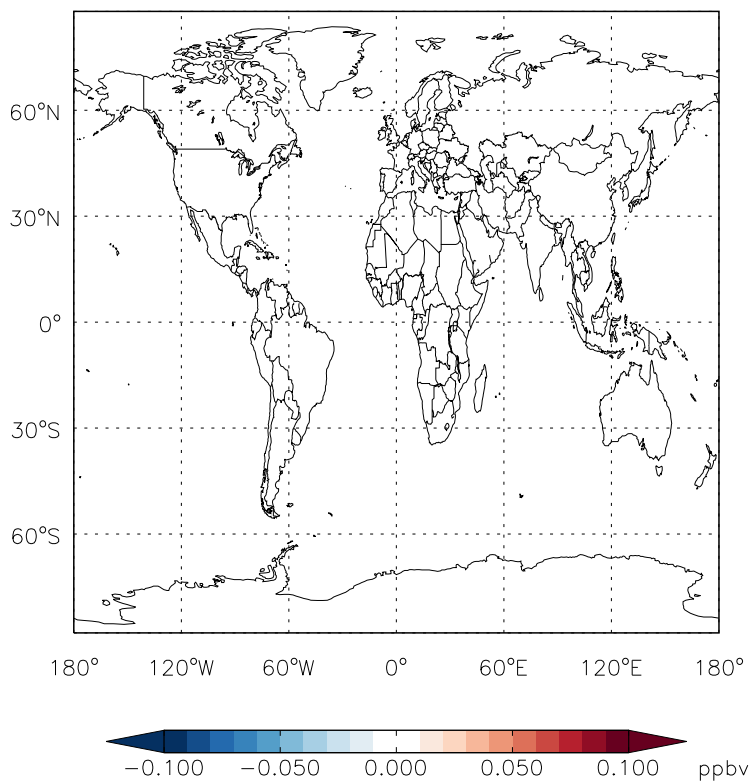
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>3</sub> - Diff @ Surface for Jan



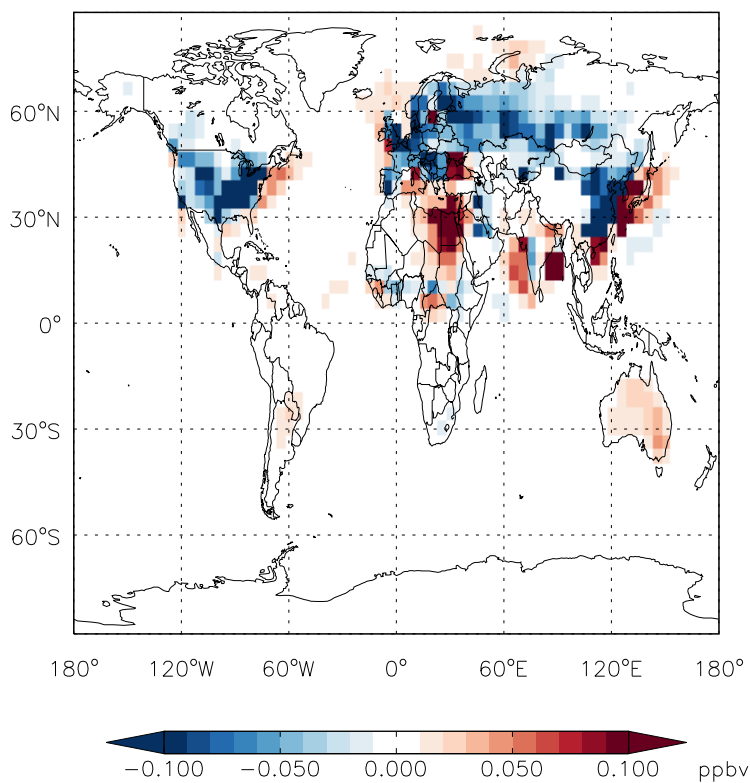
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>3</sub> - Diff @ 500 hPa for Jan



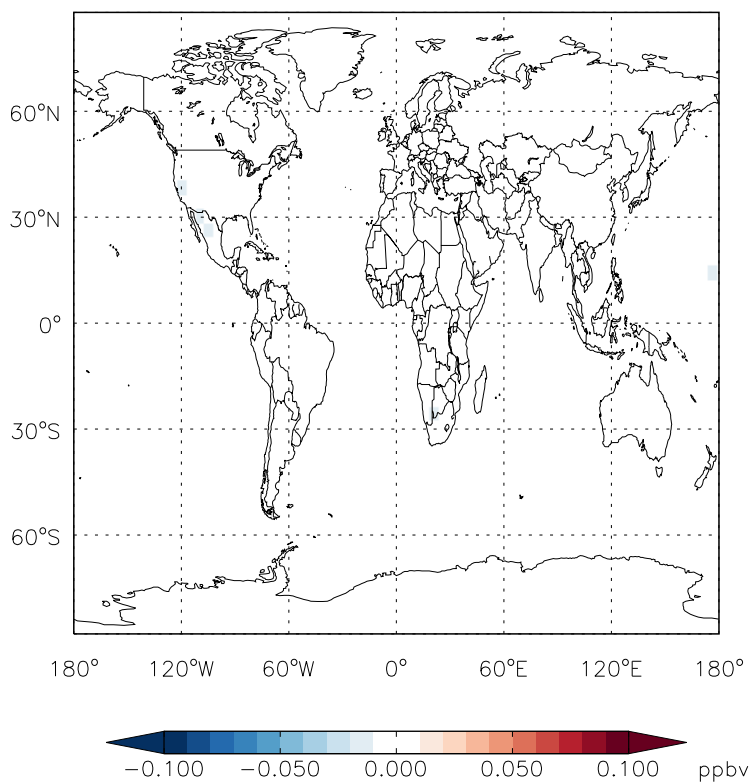
v11-01g-Run0 - v11-01d-Run1

HNO<sub>3</sub> - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

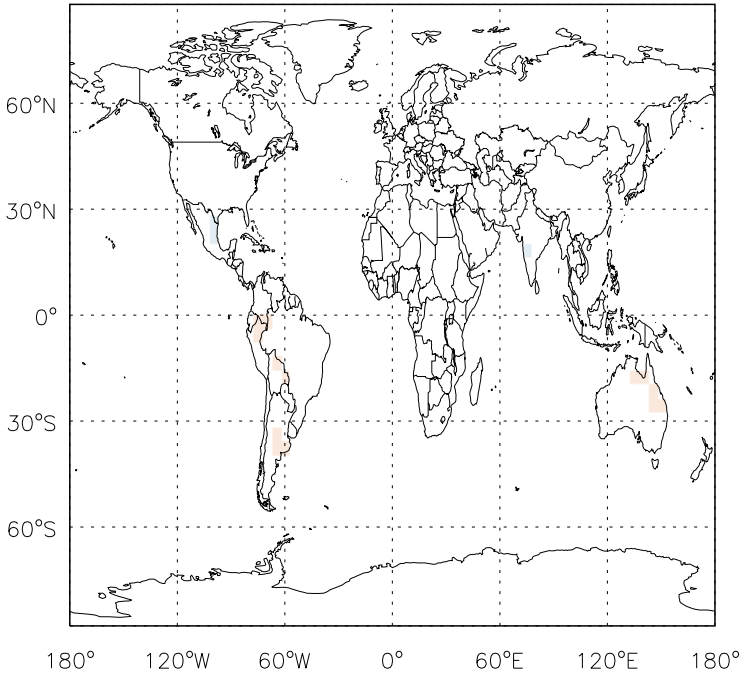
HNO<sub>3</sub> - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

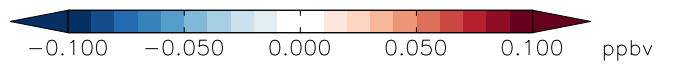
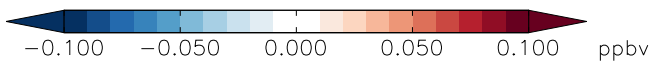
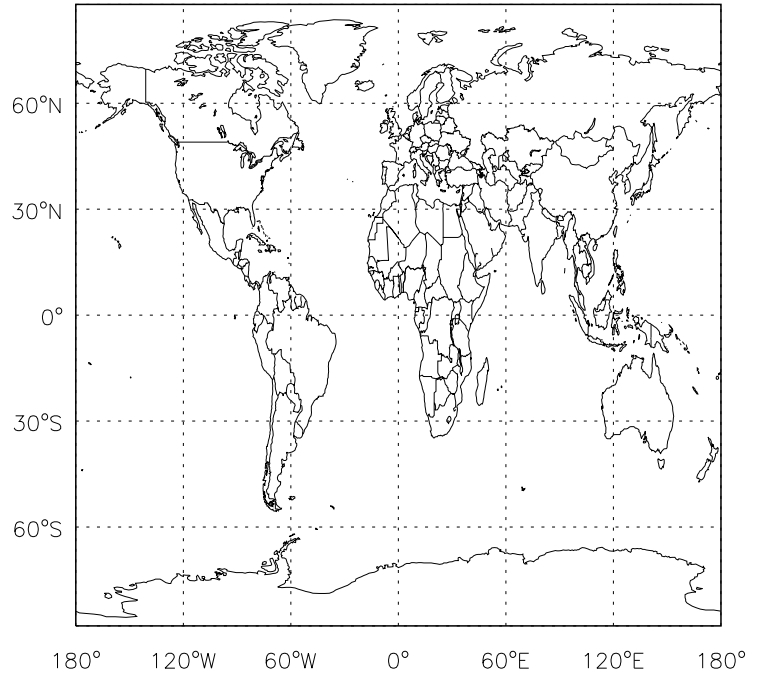
v11-01g-Run0 - v11-01f-geosfp-Run0

H2O2 - Diff @ Surface for Jan



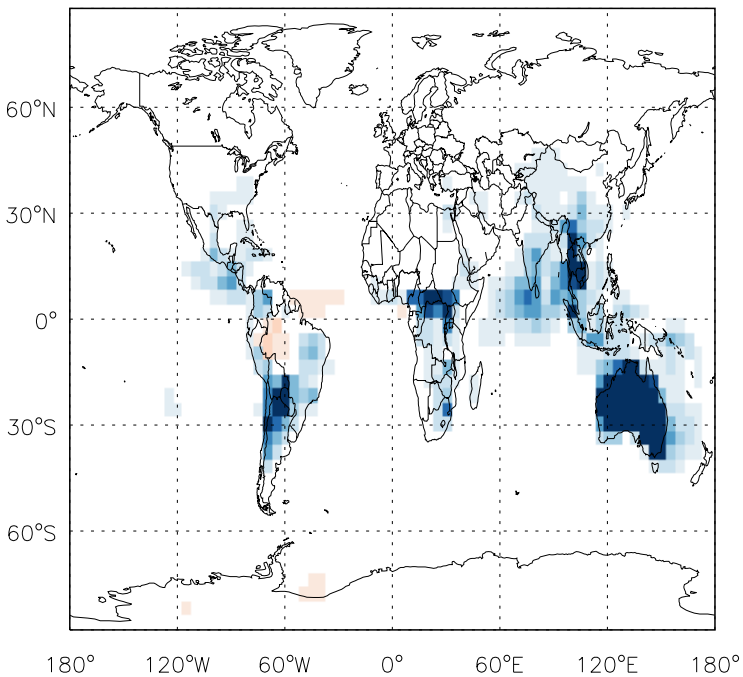
v11-01g-Run0 - v11-01f-geosfp-Run0

H2O2 - Diff @ 500 hPa for Jan



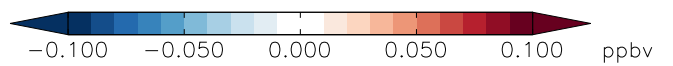
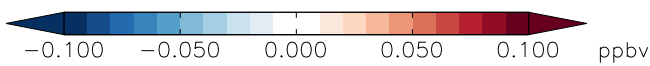
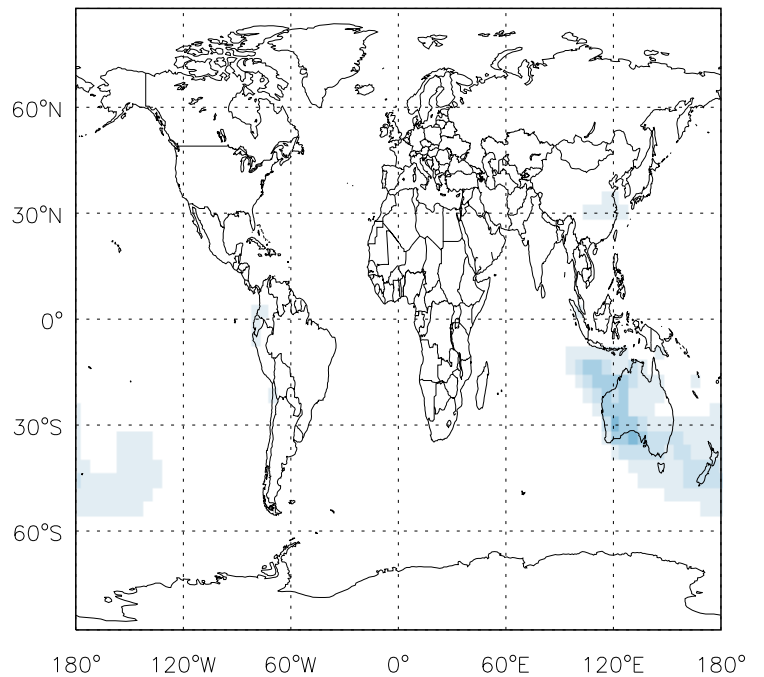
v11-01g-Run0 - v11-01d-Run1

H2O2 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

H2O2 - Diff @ 500 hPa for Jan

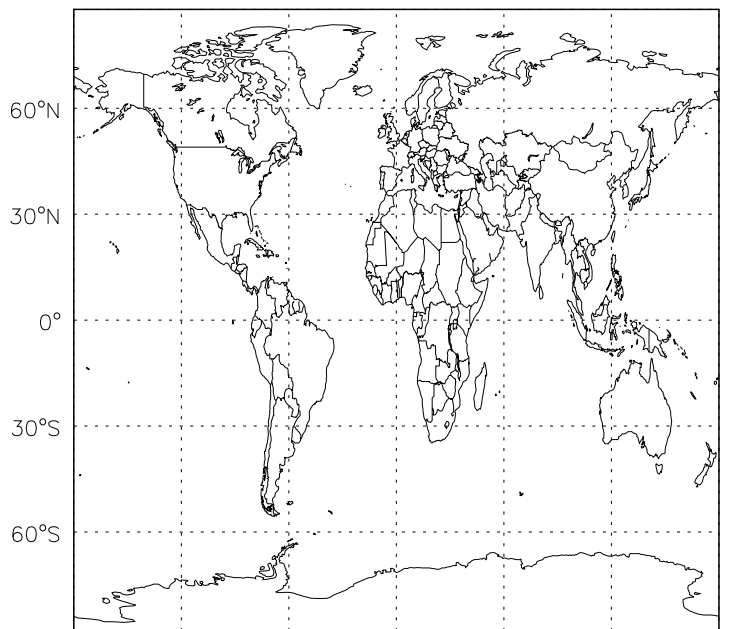




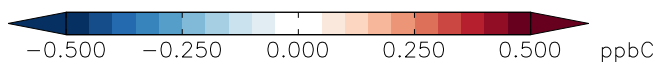
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

ACET - Diff @ Surface for Jan

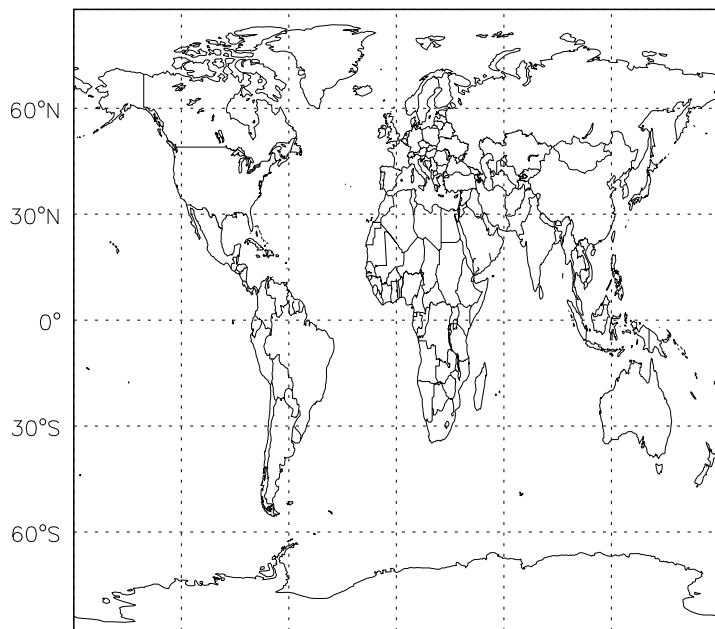


180° 120°W 60°W 0° 60°E 120°E 180°

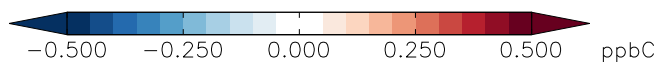


v11-01g-Run0 - v11-01f-geosfp-Run0

ACET - Diff @ 500 hPa for Jan

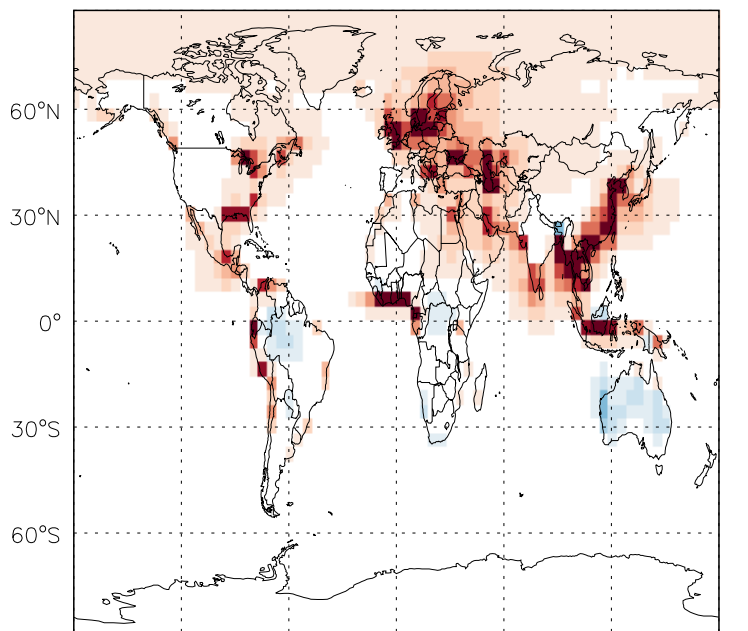


180° 120°W 60°W 0° 60°E 120°E 180°

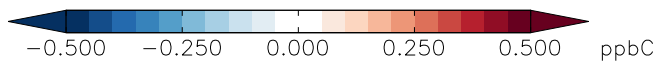


v11-01g-Run0 - v11-01d-Run1

ACET - Diff @ Surface for Jan

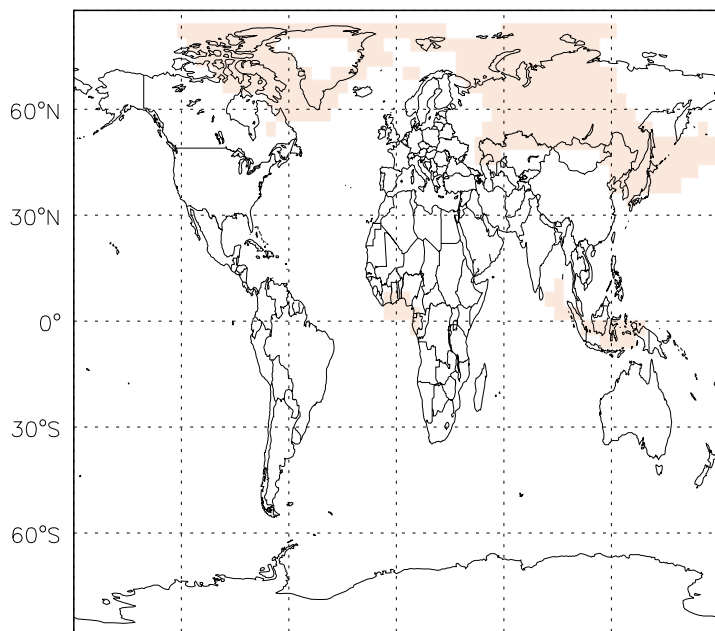


180° 120°W 60°W 0° 60°E 120°E 180°

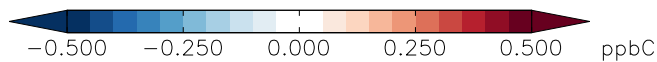


v11-01g-Run0 - v11-01d-Run1

ACET - Diff @ 500 hPa for Jan



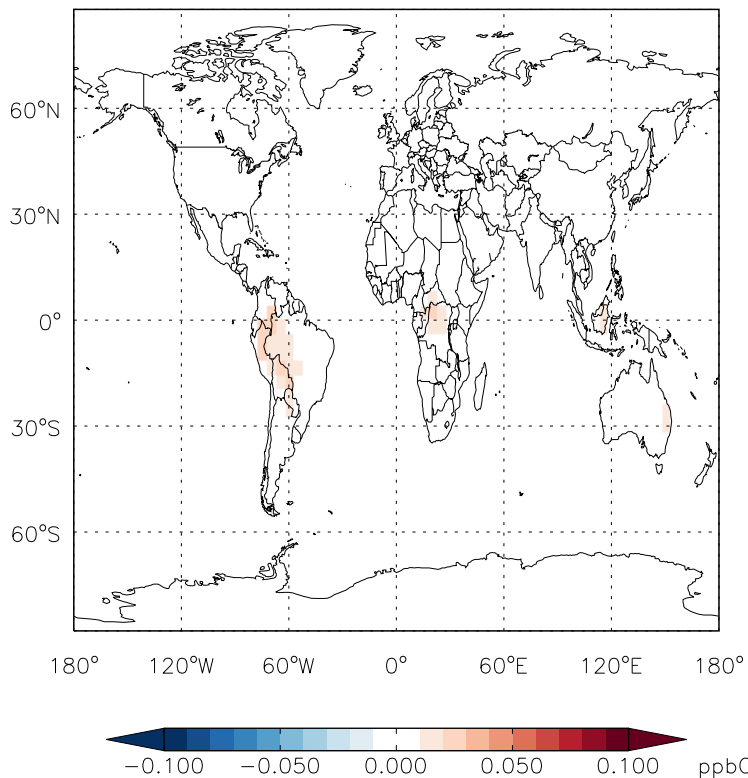
180° 120°W 60°W 0° 60°E 120°E 180°



# GEOS-Chem Difference Maps at surface and 500 hPa

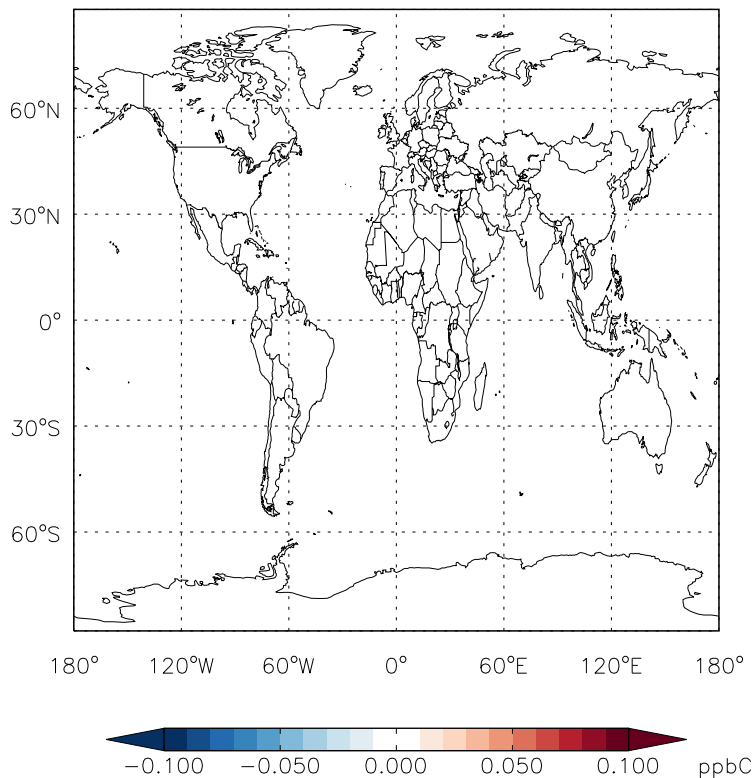
v11-01g-Run0 - v11-01f-geosfp-Run0

MEK - Diff @ Surface for Jan



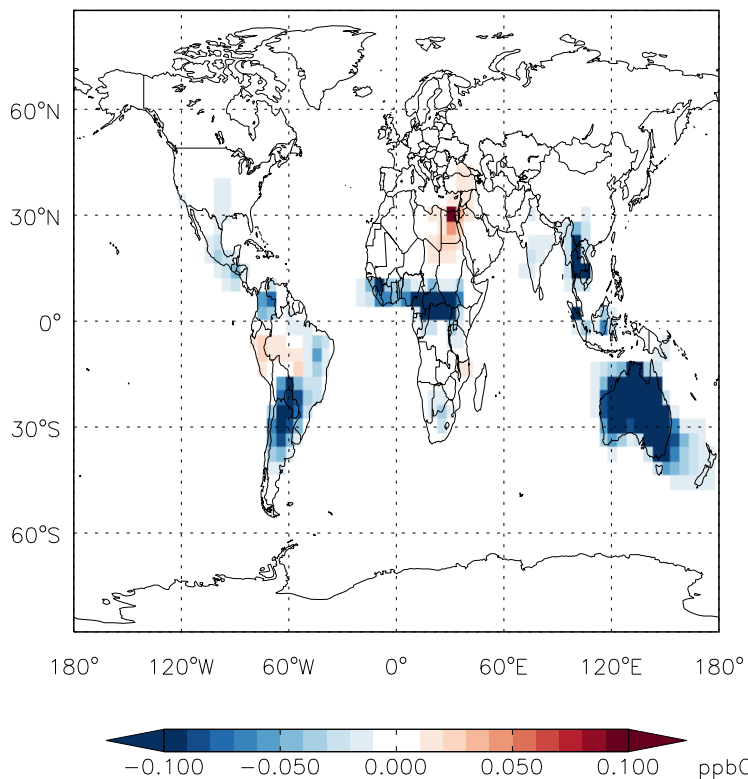
v11-01g-Run0 - v11-01f-geosfp-Run0

MEK - Diff @ 500 hPa for Jan



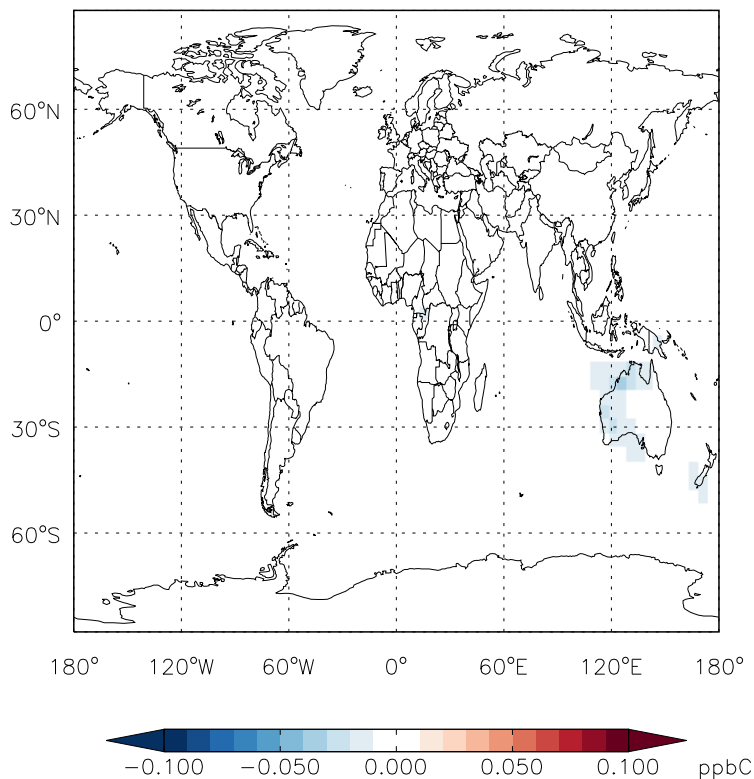
v11-01g-Run0 - v11-01d-Run1

MEK - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

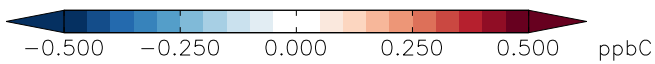
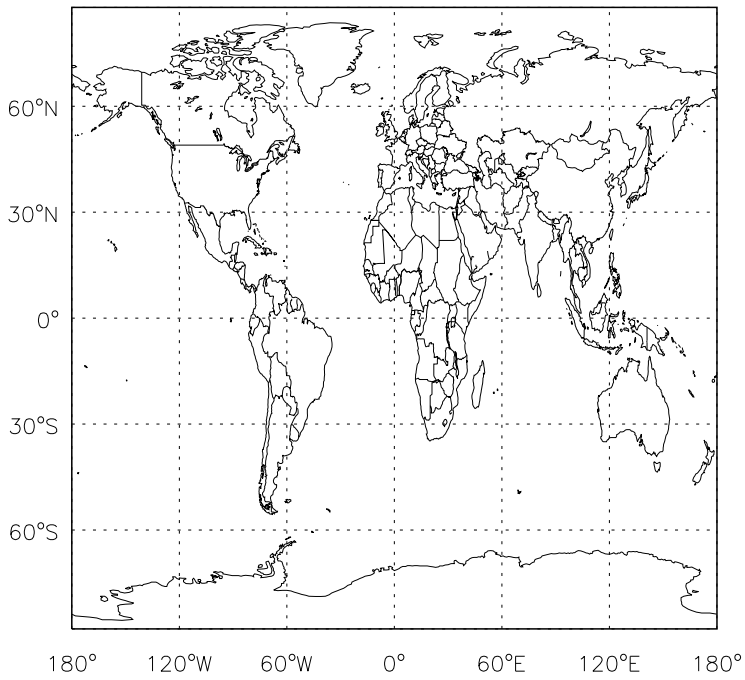
MEK - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

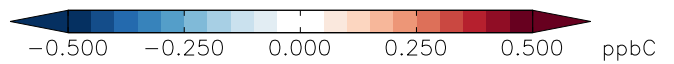
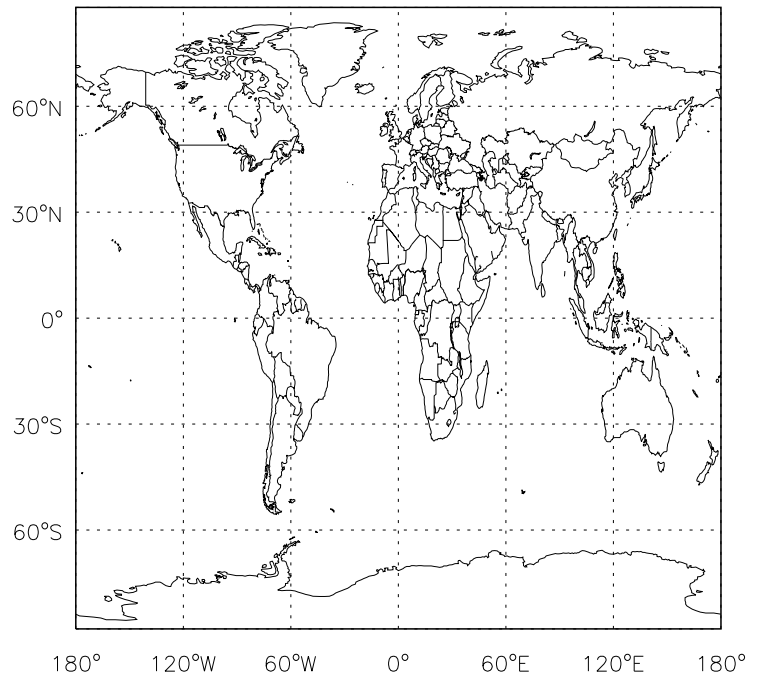
v11-01g-Run0 - v11-01f-geosfp-Run0

ALD2 - Diff @ Surface for Jan



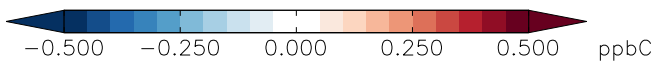
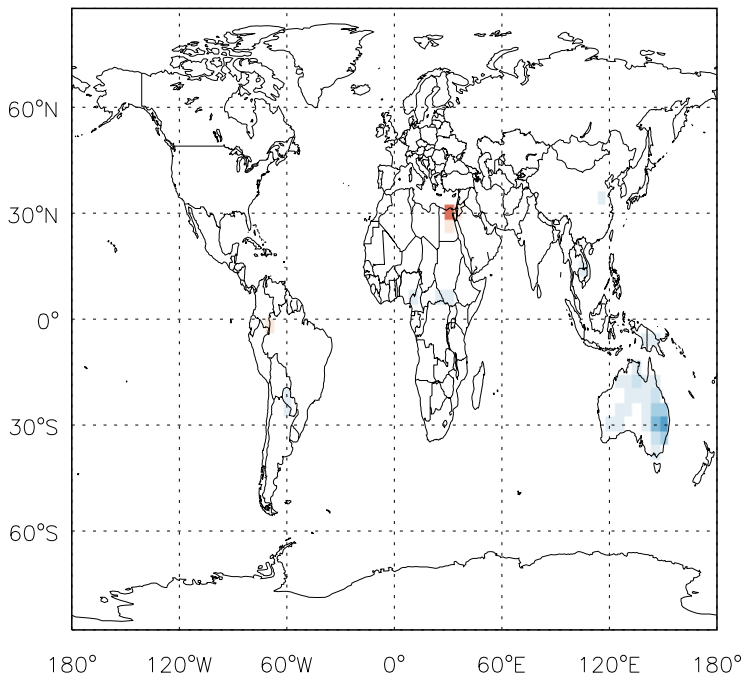
v11-01g-Run0 - v11-01f-geosfp-Run0

ALD2 - Diff @ 500 hPa for Jan



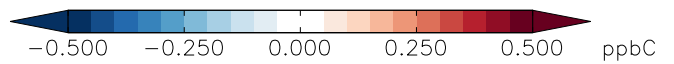
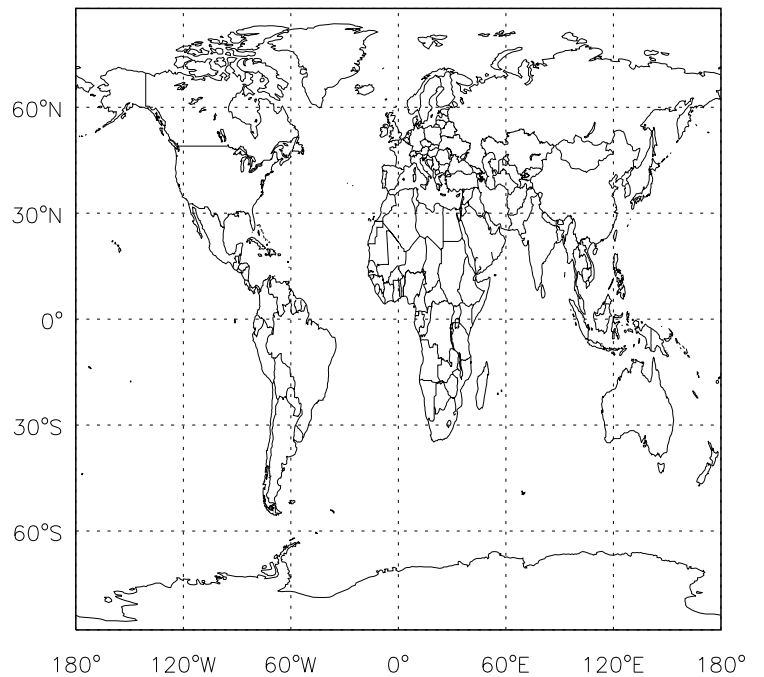
v11-01g-Run0 - v11-01d-Run1

ALD2 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

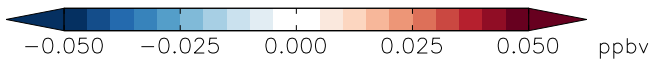
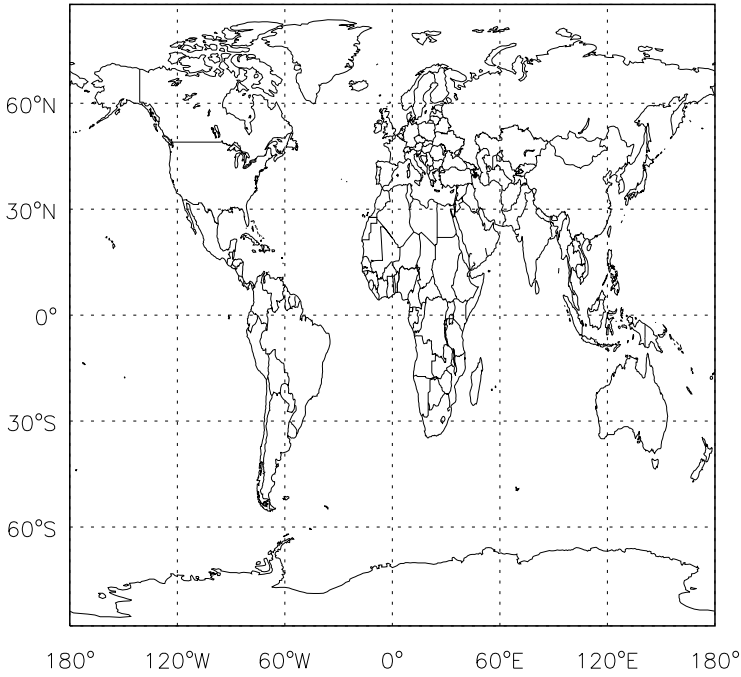
ALD2 - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

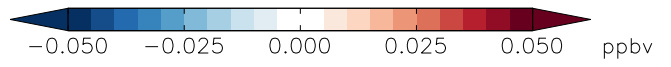
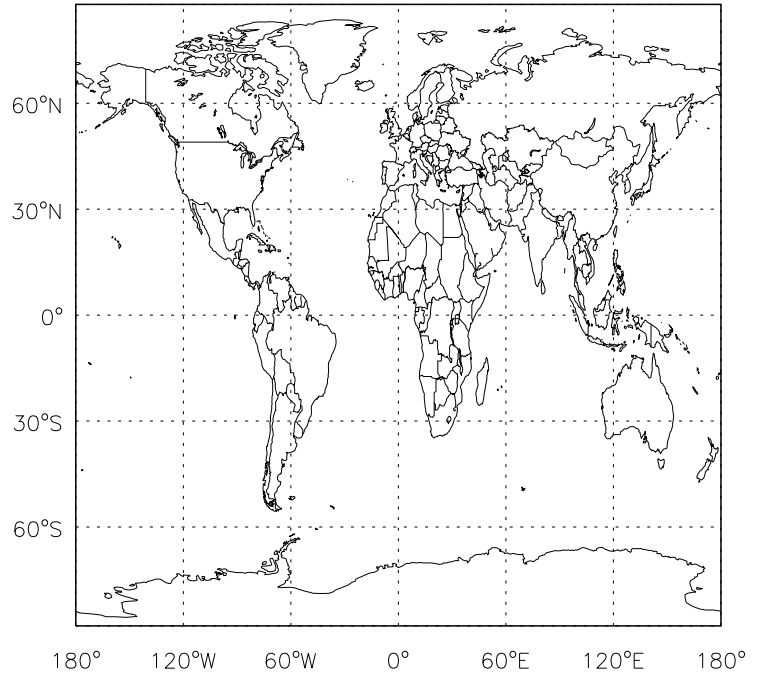
v11-01g-Run0 - v11-01f-geosfp-Run0

RCHO - Diff @ Surface for Jan



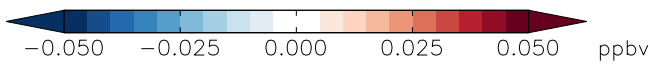
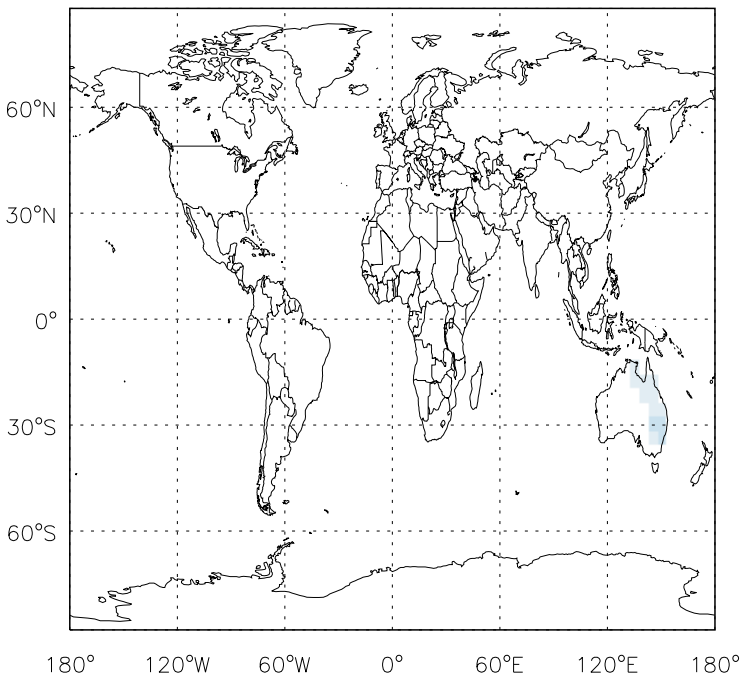
v11-01g-Run0 - v11-01f-geosfp-Run0

RCHO - Diff @ 500 hPa for Jan



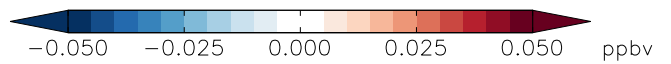
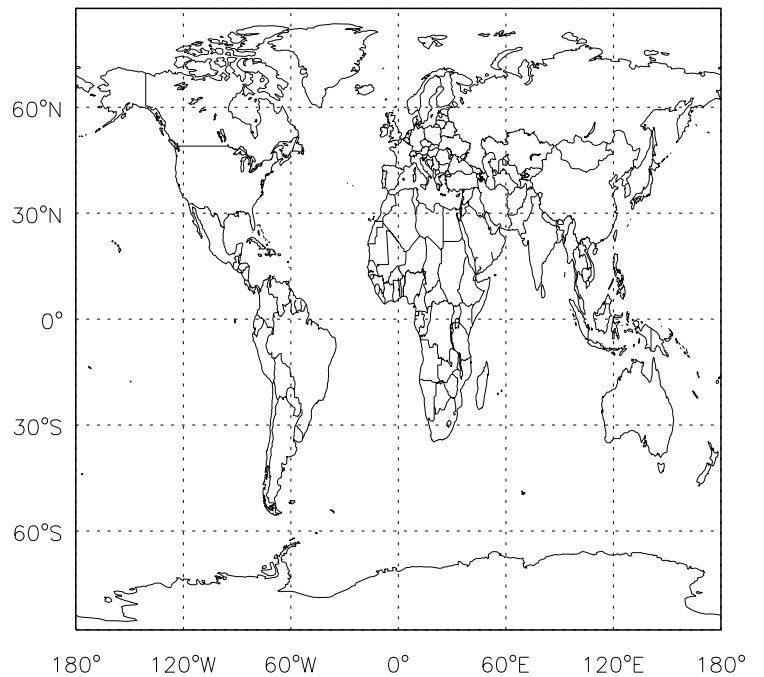
v11-01g-Run0 - v11-01d-Run1

RCHO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

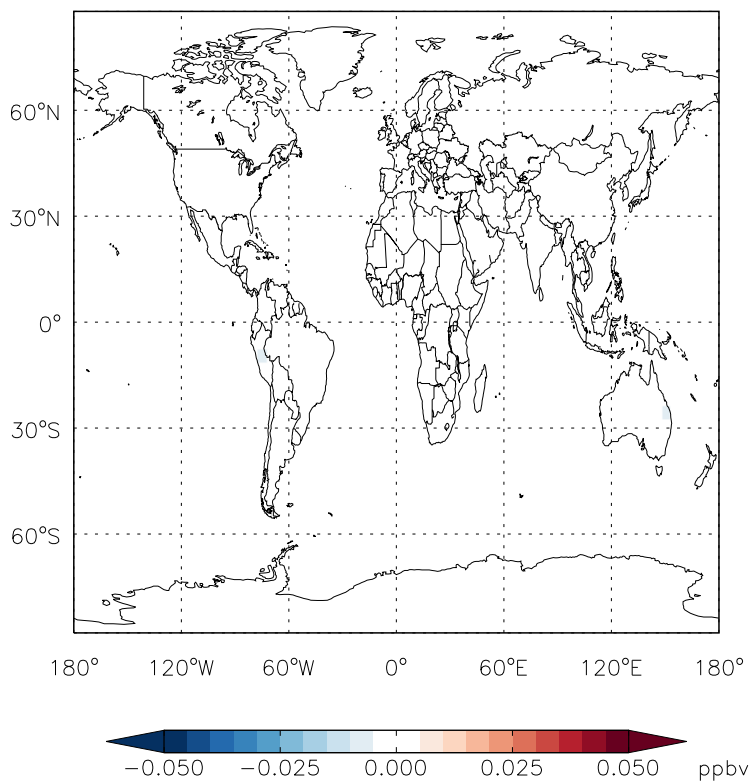
RCHO - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

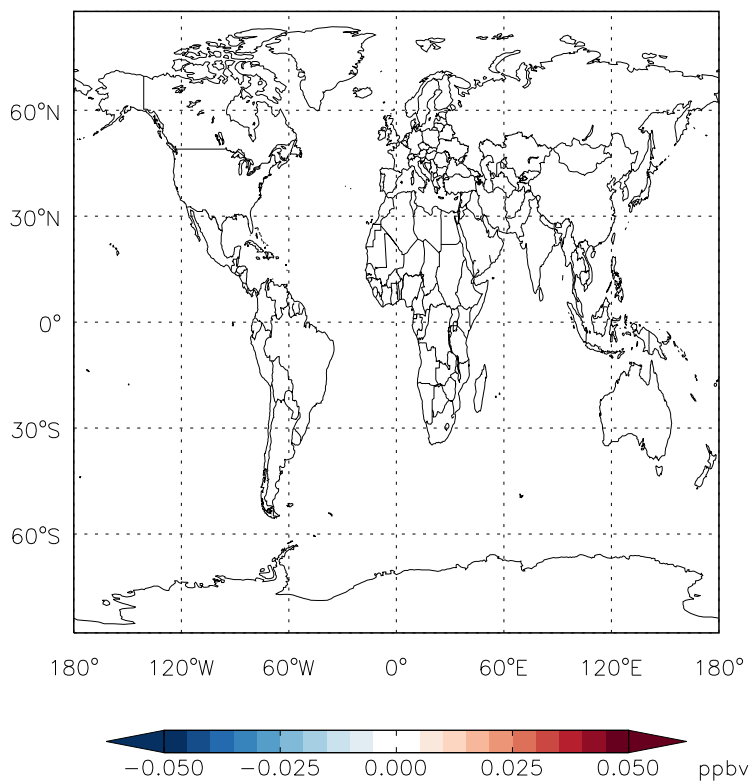
v11-01g-Run0 - v11-01f-geosfp-Run0

MVK - Diff @ Surface for Jan



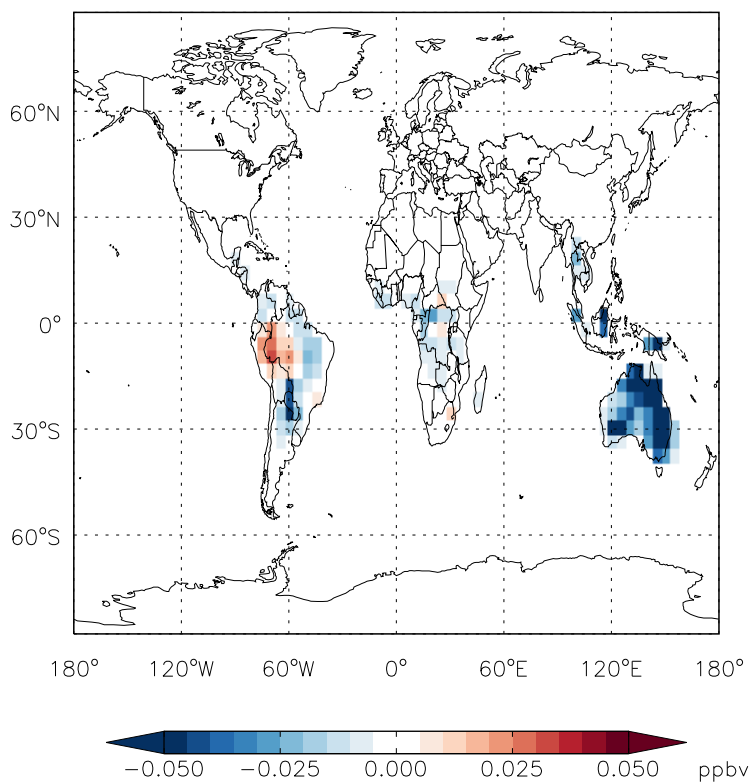
v11-01g-Run0 - v11-01f-geosfp-Run0

MVK - Diff @ 500 hPa for Jan



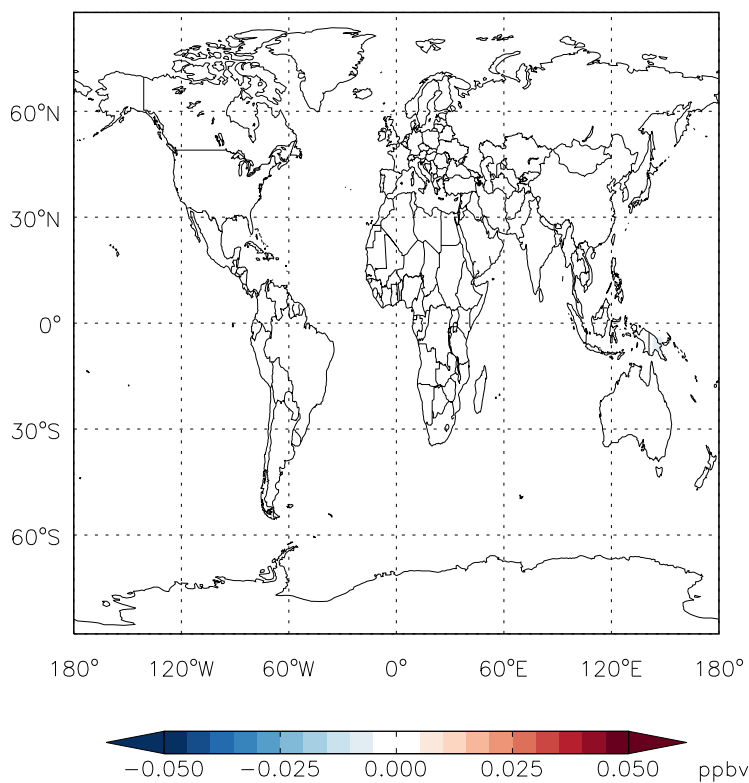
v11-01g-Run0 - v11-01d-Run1

MVK - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

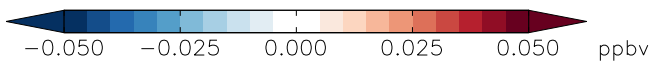
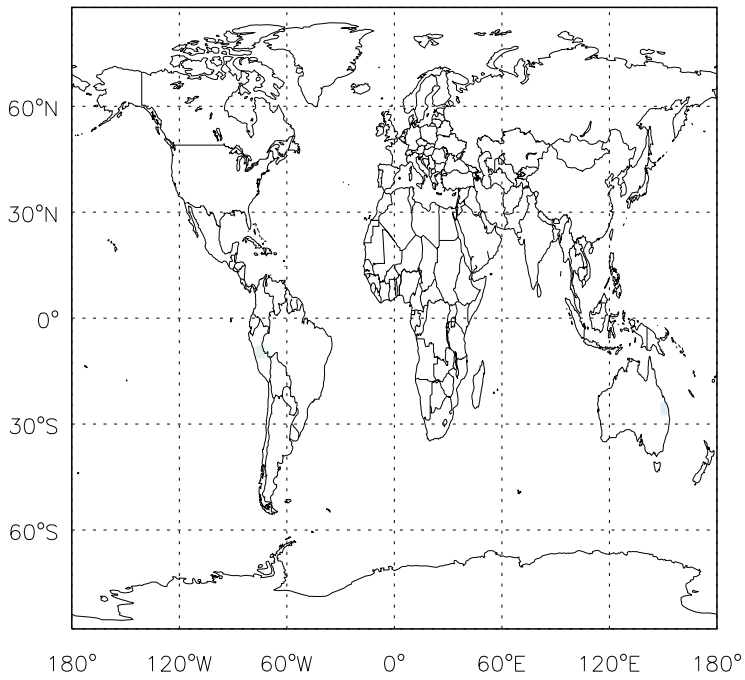
MVK - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

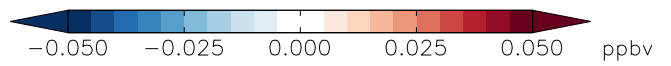
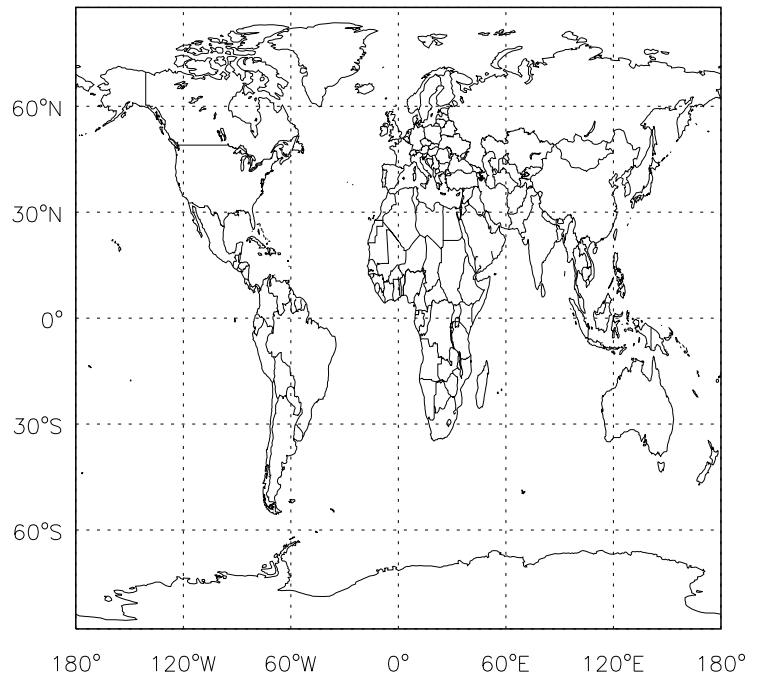
v11-01g-Run0 - v11-01f-geosfp-Run0

MACR - Diff @ Surface for Jan



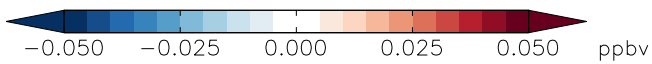
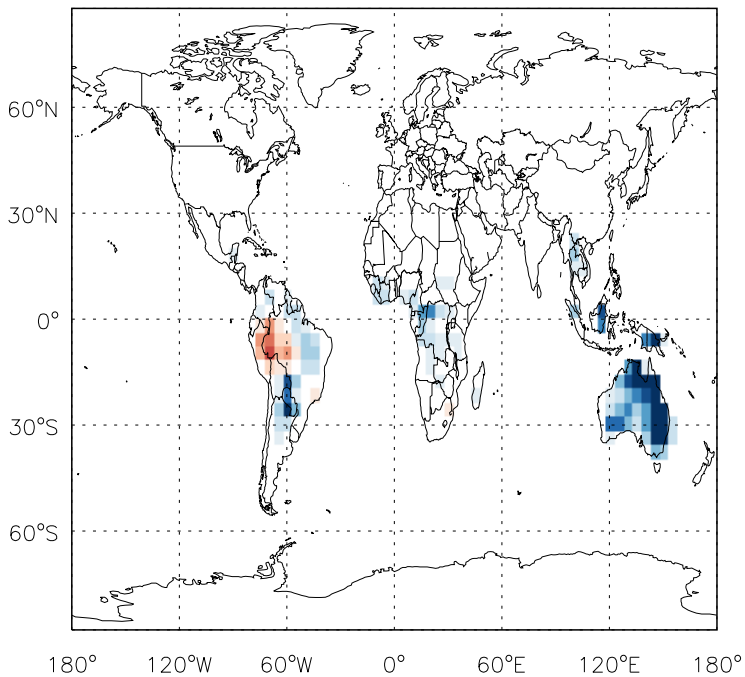
v11-01g-Run0 - v11-01f-geosfp-Run0

MACR - Diff @ 500 hPa for Jan



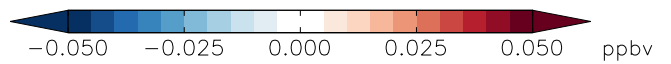
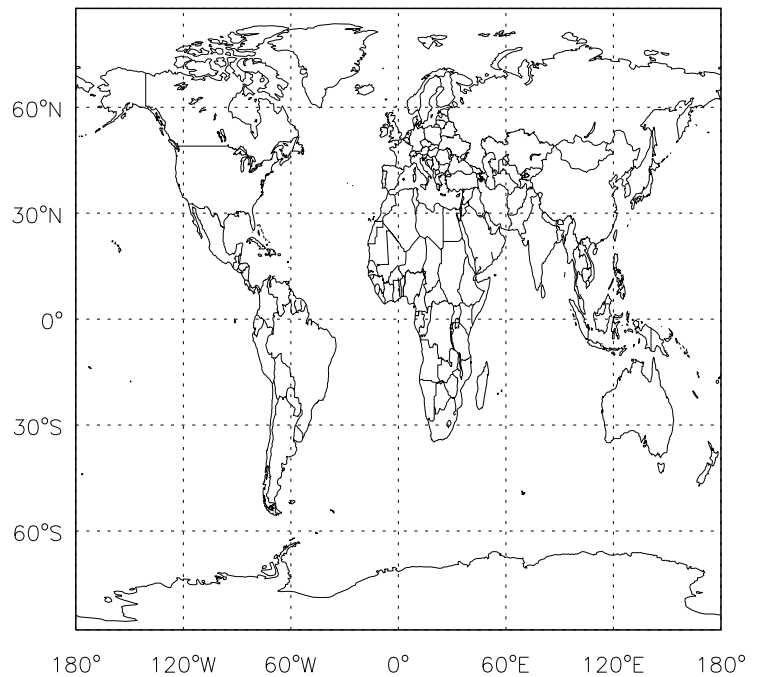
v11-01g-Run0 - v11-01d-Run1

MACR - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

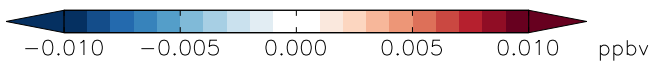
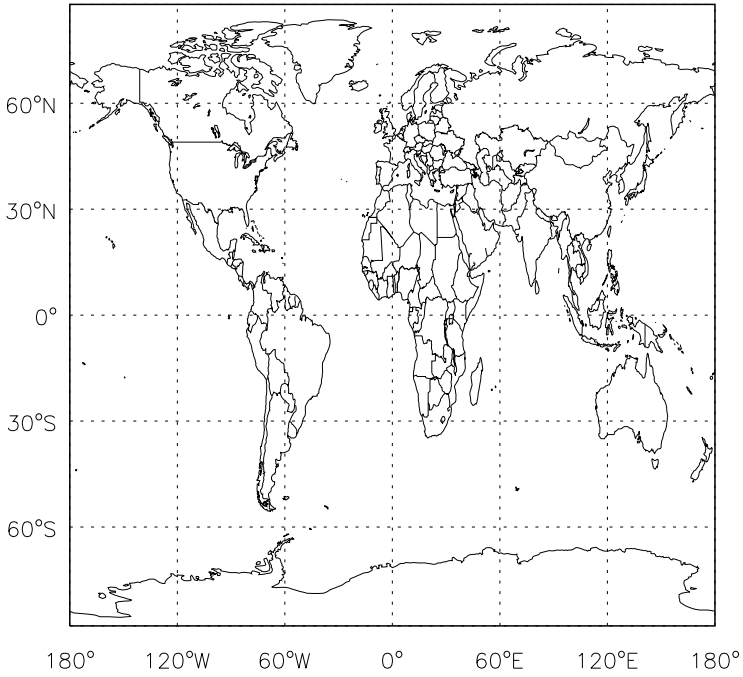
MACR - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

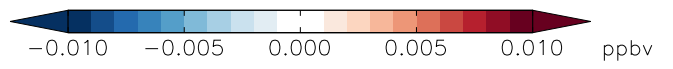
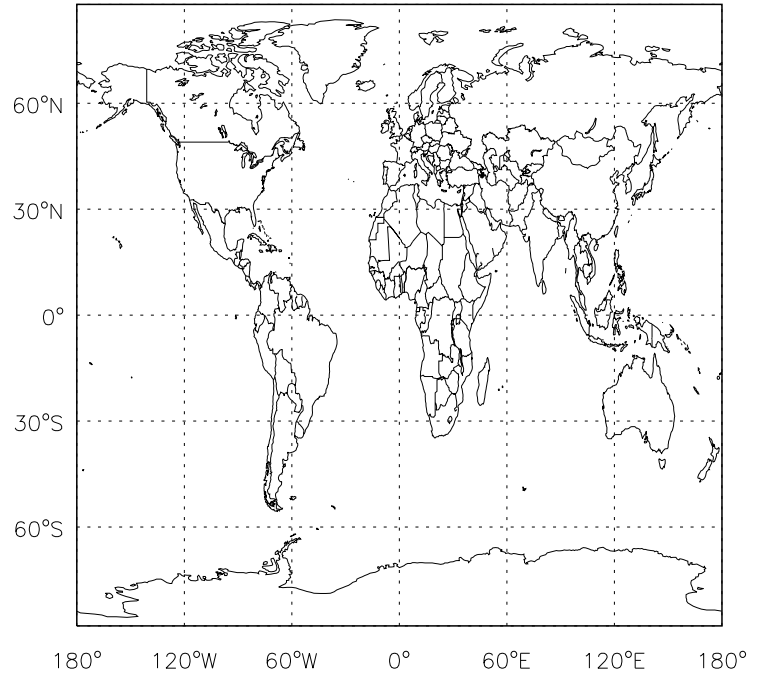
v11-01g-Run0 - v11-01f-geosfp-Run0

PMN - Diff @ Surface for Jan



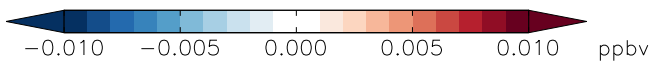
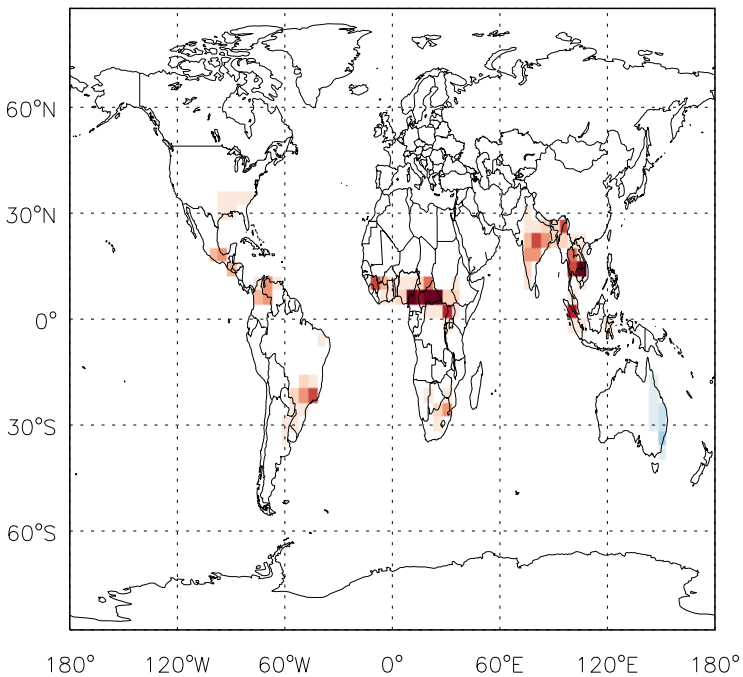
v11-01g-Run0 - v11-01f-geosfp-Run0

PMN- Diff @ 500 hPa for Jan



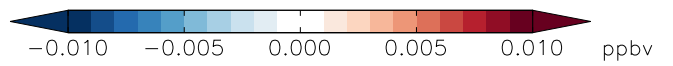
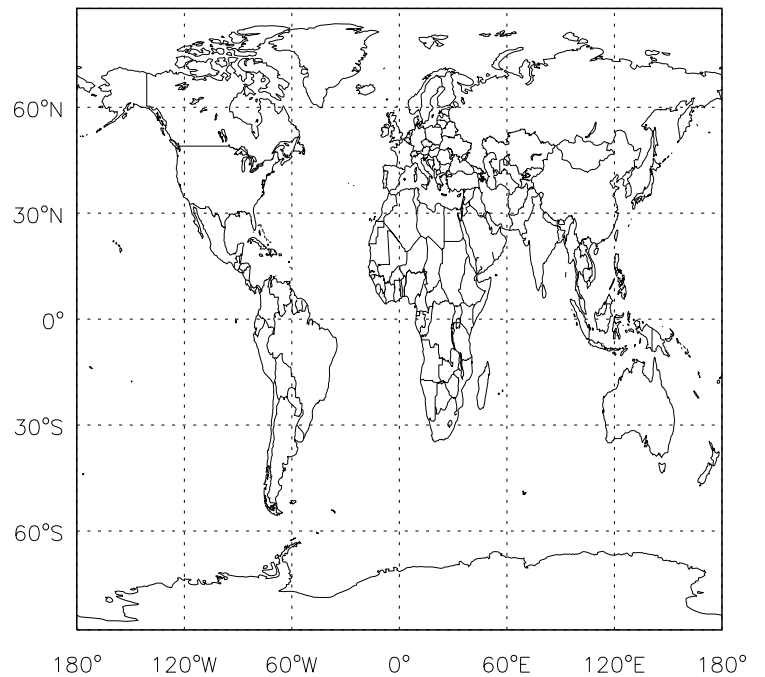
v11-01g-Run0 - v11-01d-Run1

PMN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

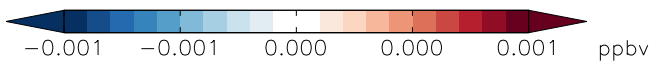
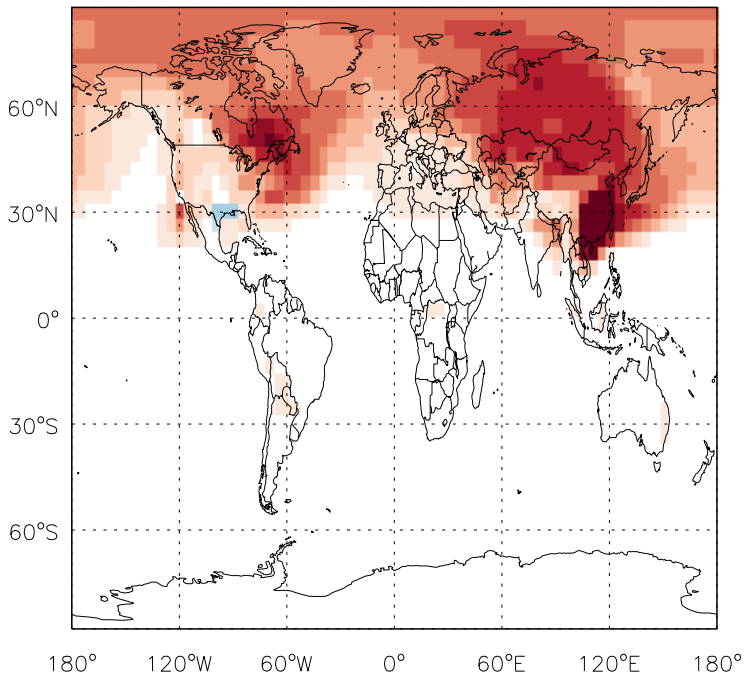
PMN- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

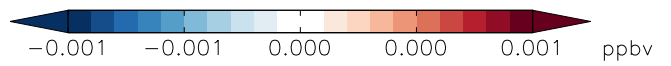
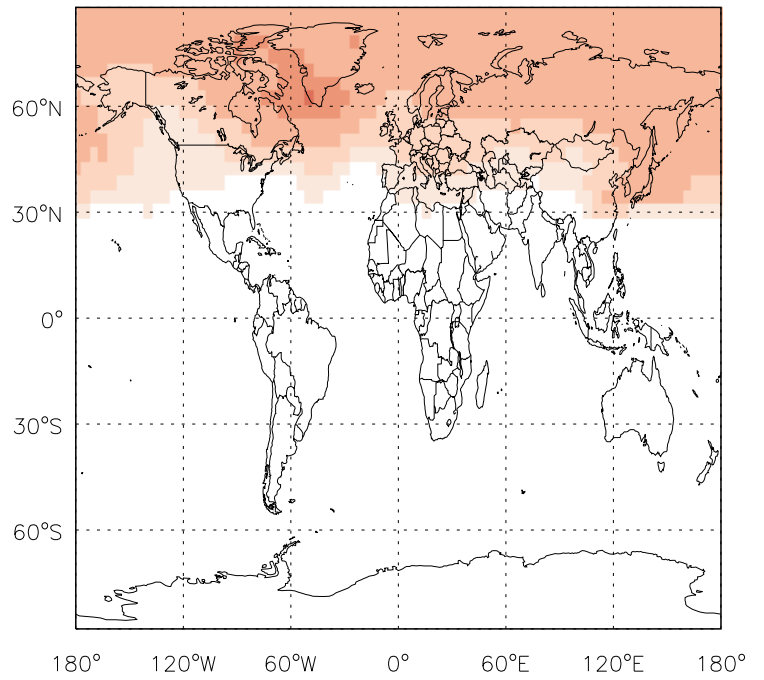
v11-01g-Run0 - v11-01f-geosfp-Run0

PPN - Diff @ Surface for Jan



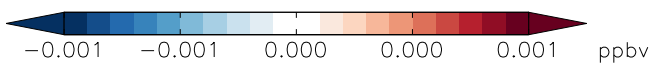
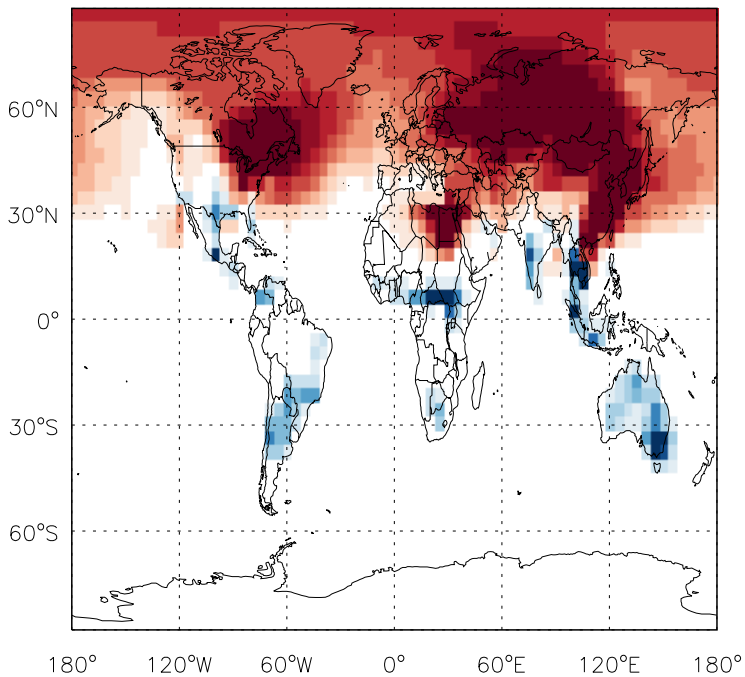
v11-01g-Run0 - v11-01f-geosfp-Run0

PPN - Diff @ 500 hPa for Jan



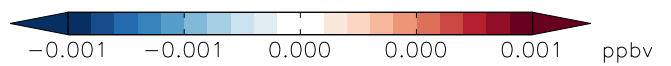
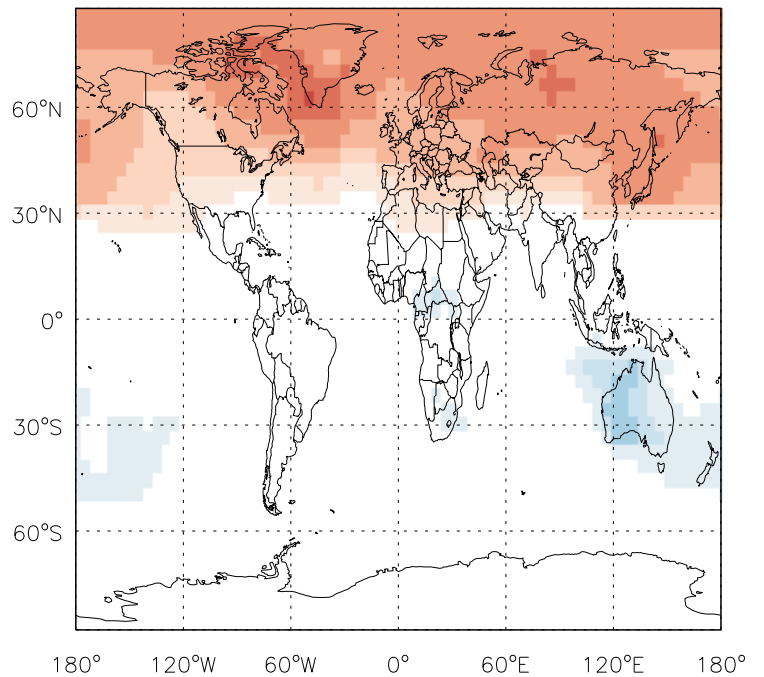
v11-01g-Run0 - v11-01d-Run1

PPN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

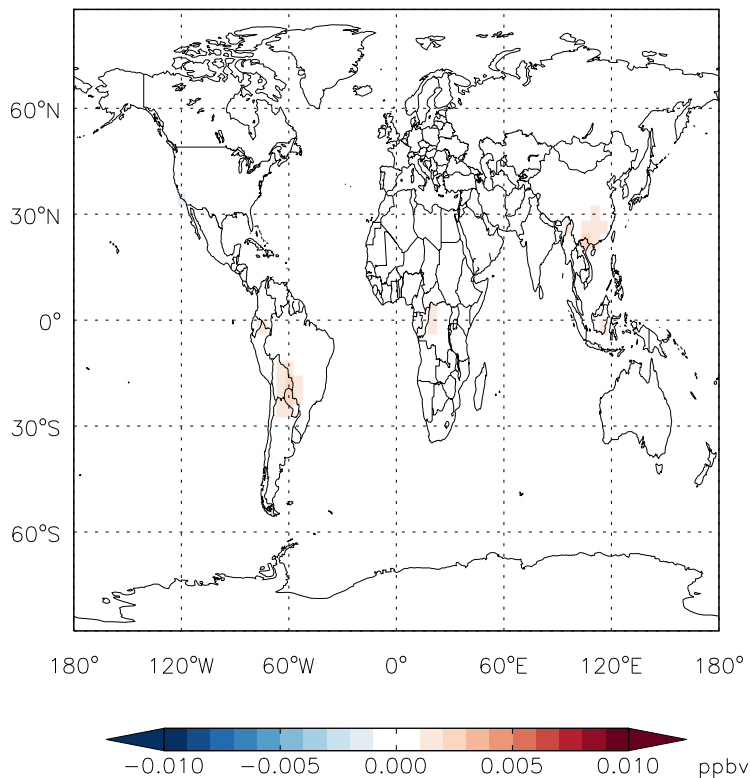
PPN - Diff @ 500 hPa for Jan



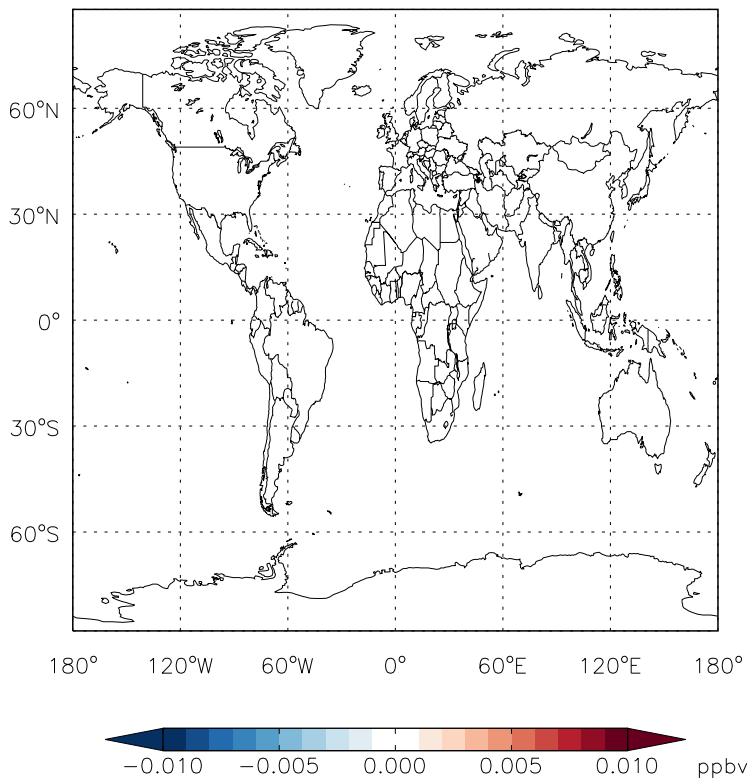


# GEOS-Chem Difference Maps at surface and 500 hPa

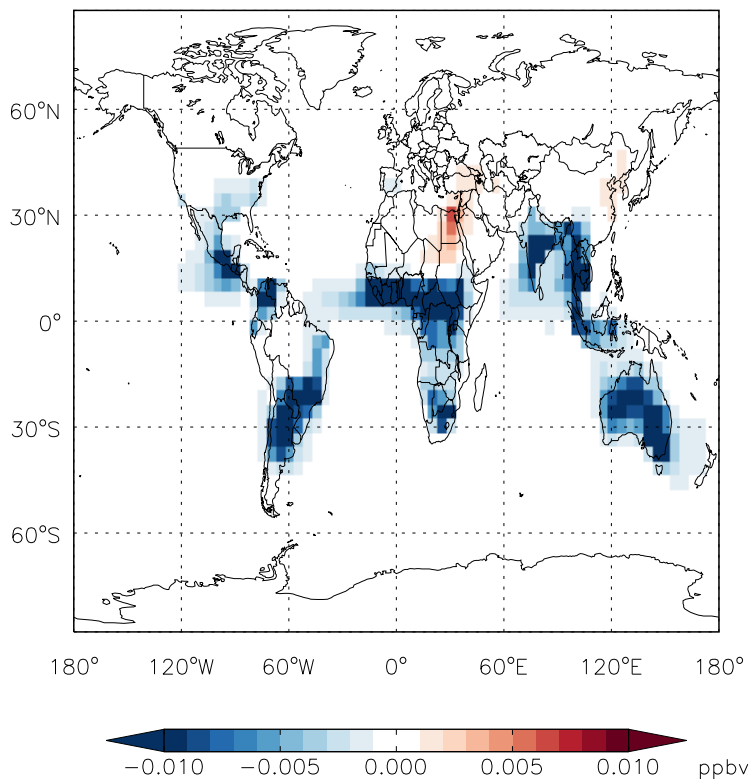
v11-01g-Run0 - v11-01f-geosfp-Run0  
R4N2 - Diff @ Surface for Jan



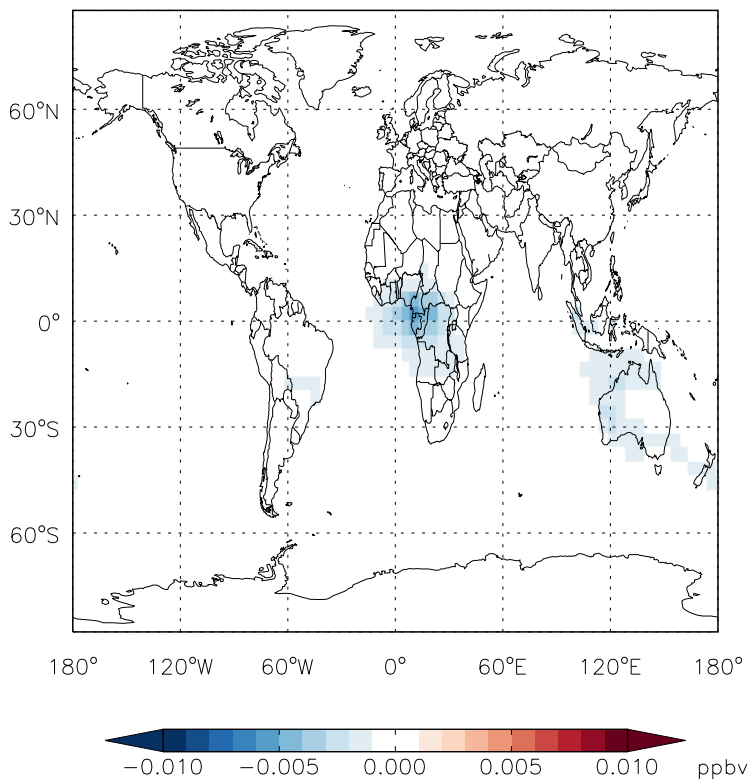
v11-01g-Run0 - v11-01f-geosfp-Run0  
R4N2- Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
R4N2 - Diff @ Surface for Jan



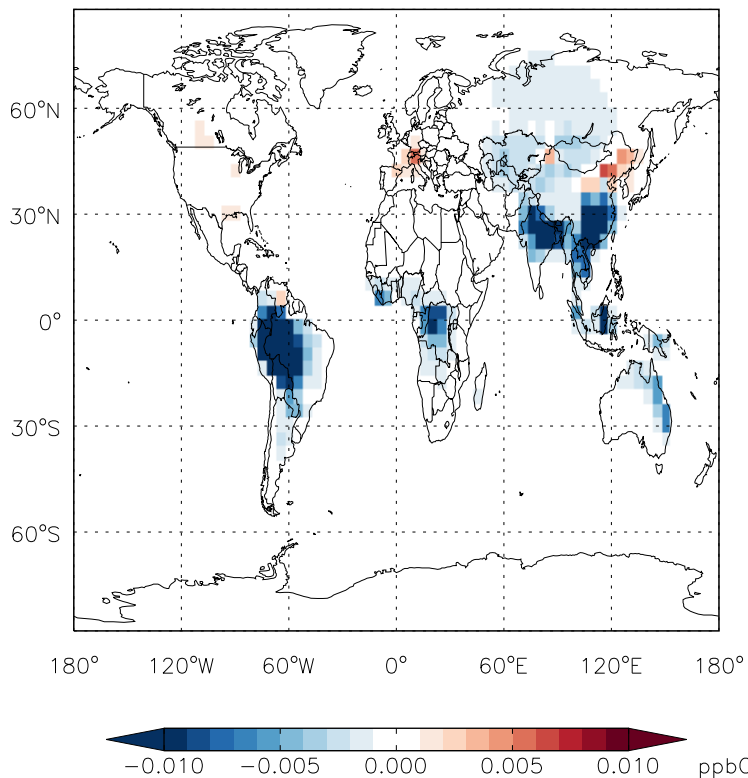
v11-01g-Run0 - v11-01d-Run1  
R4N2- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

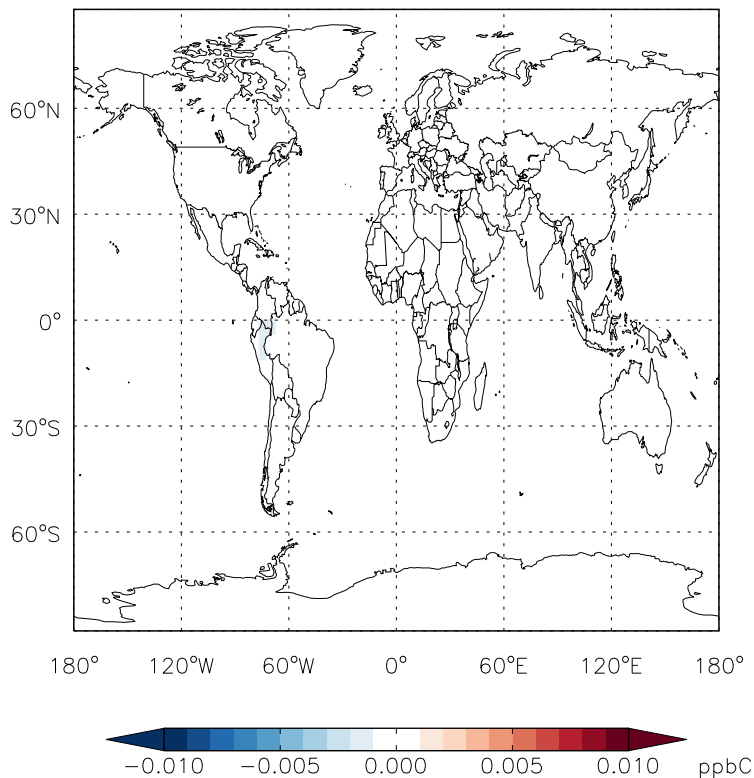
v11-01g-Run0 - v11-01f-geosfp-Run0

PRPE - Diff @ Surface for Jan



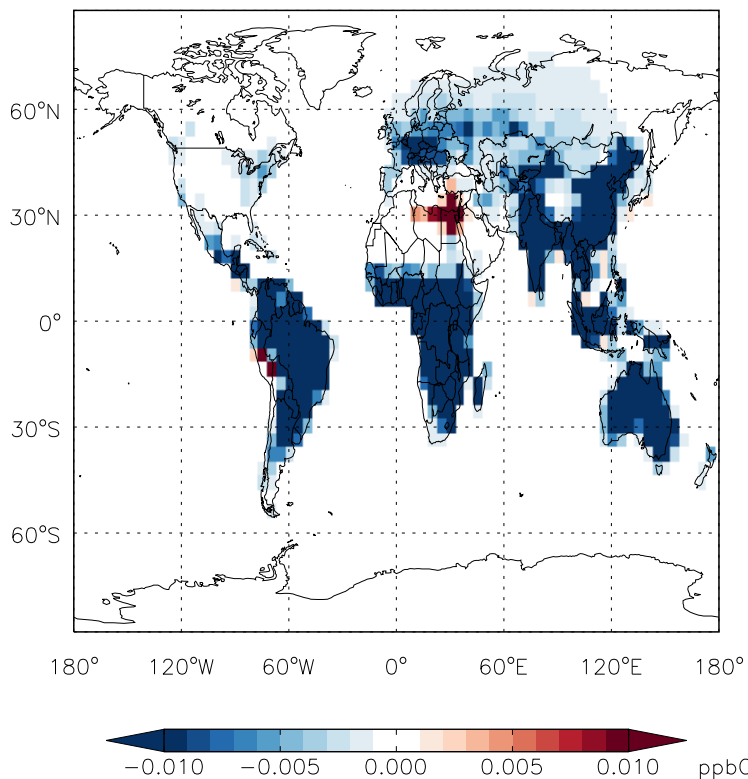
v11-01g-Run0 - v11-01f-geosfp-Run0

PRPE - Diff @ 500 hPa for Jan



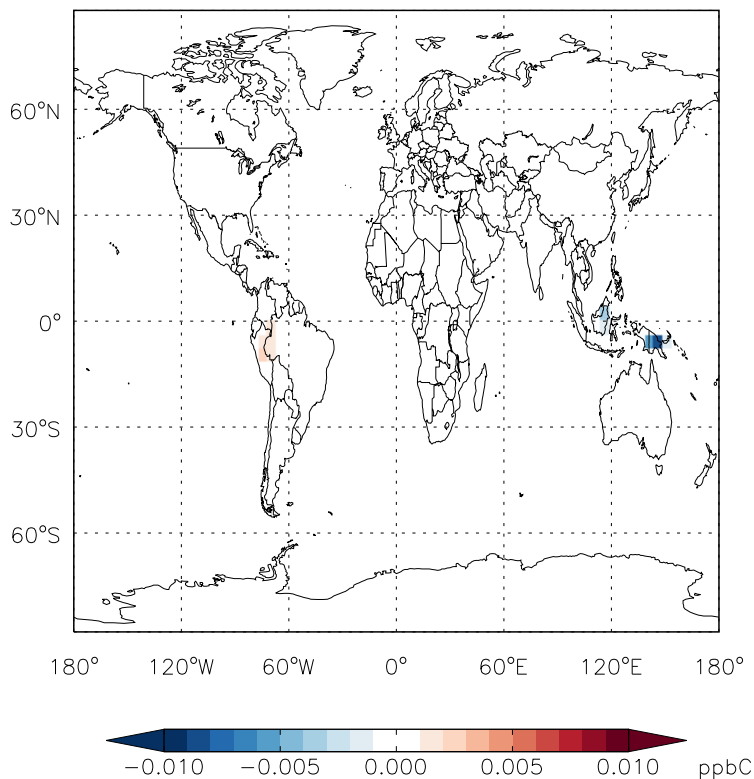
v11-01g-Run0 - v11-01d-Run1

PRPE - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

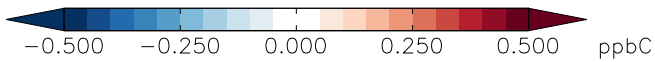
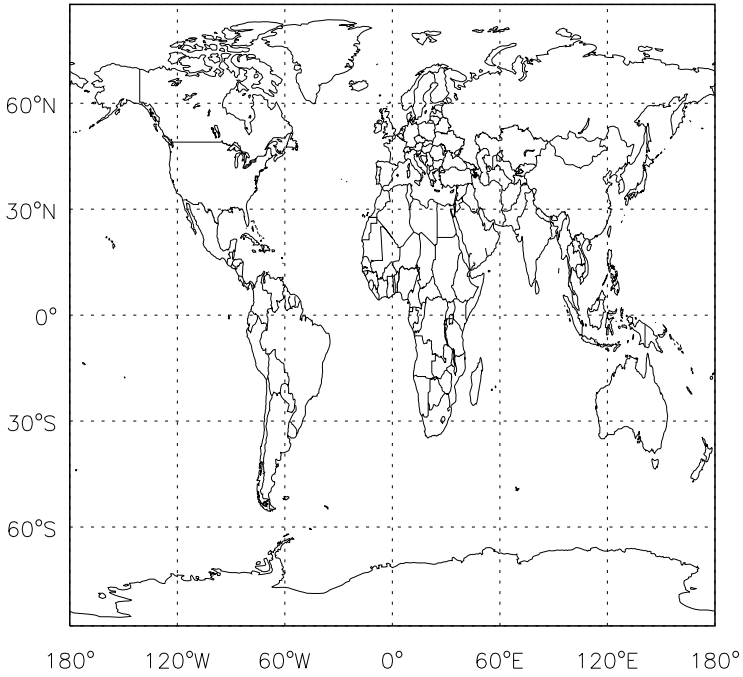
PRPE - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

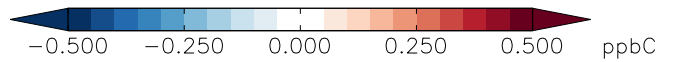
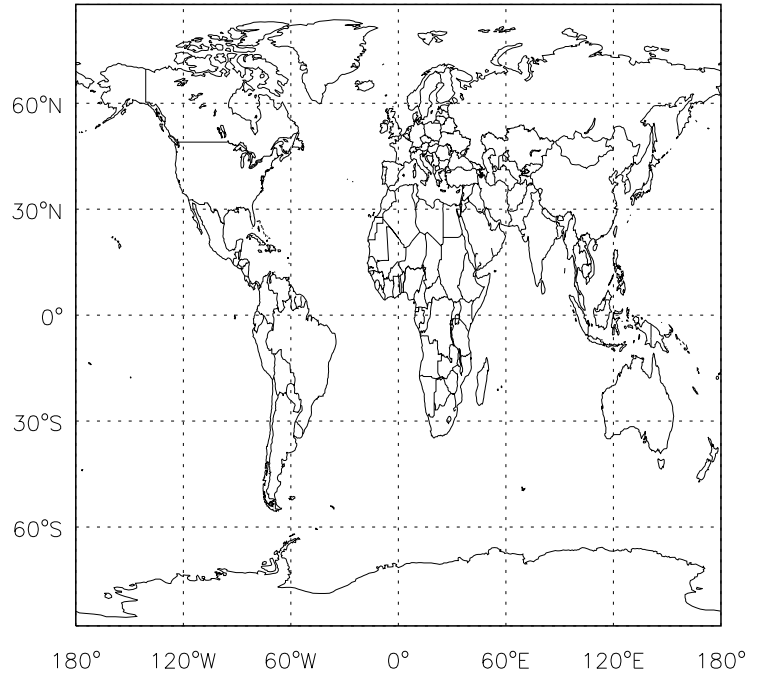
v11-01g-Run0 - v11-01f-geosfp-Run0

C3H8 - Diff @ Surface for Jan



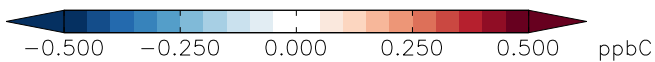
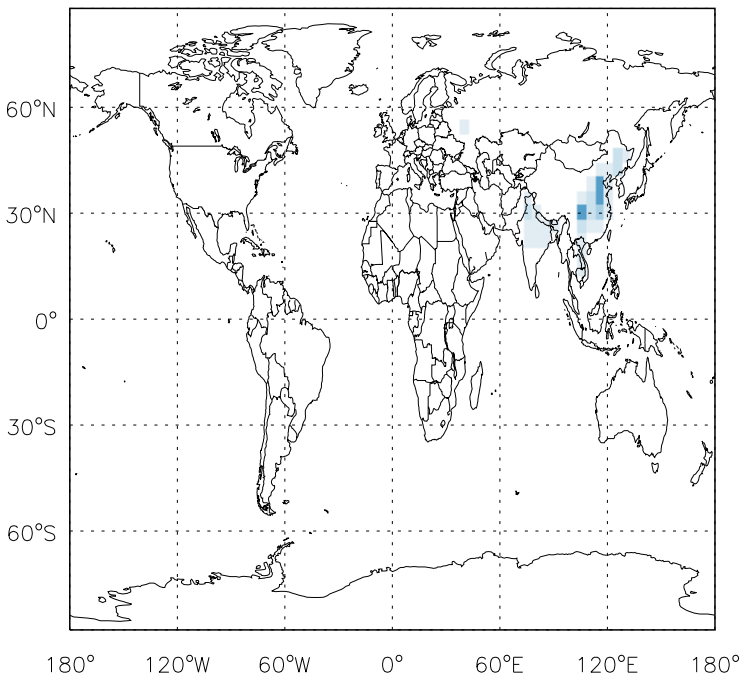
v11-01g-Run0 - v11-01f-geosfp-Run0

C3H8- Diff @ 500 hPa for Jan



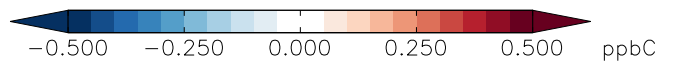
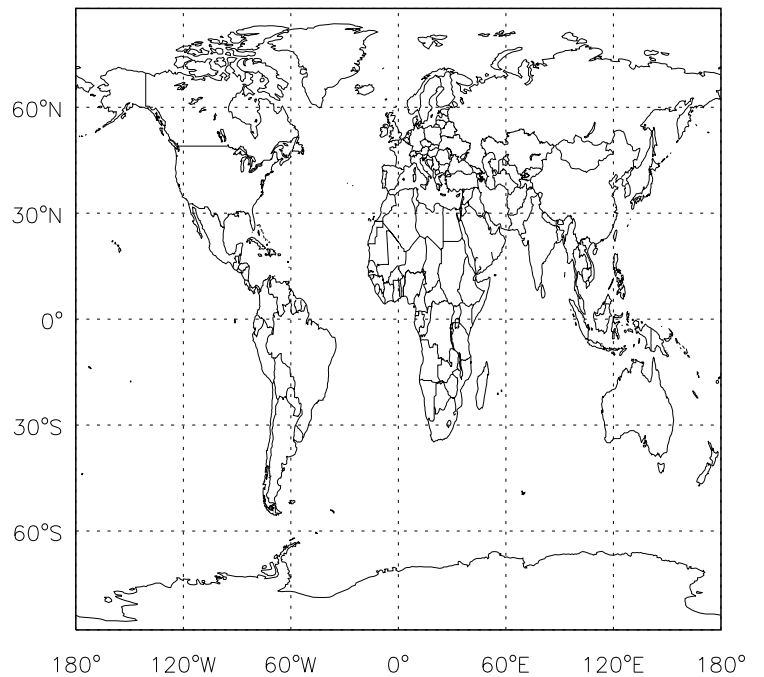
v11-01g-Run0 - v11-01d-Run1

C3H8 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

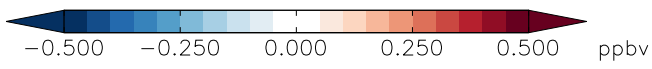
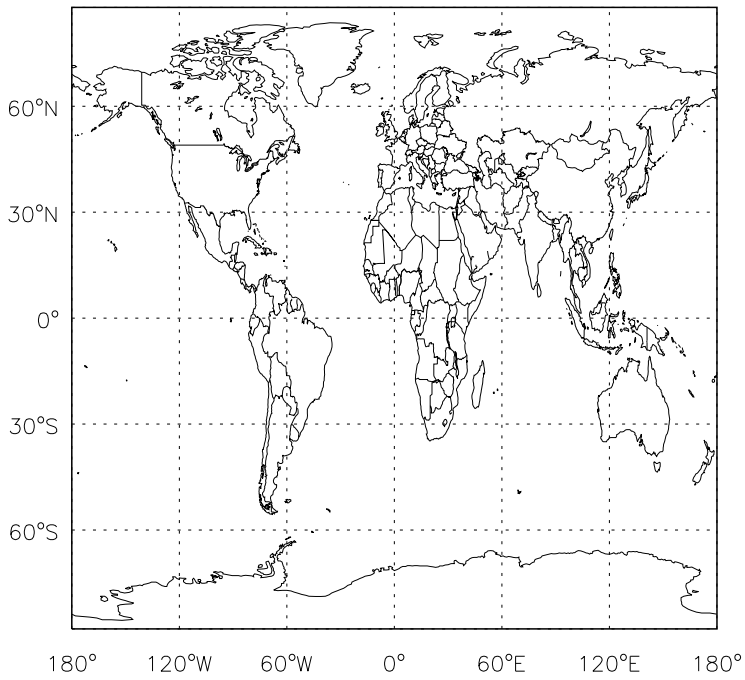
C3H8- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

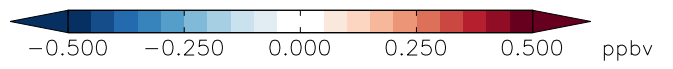
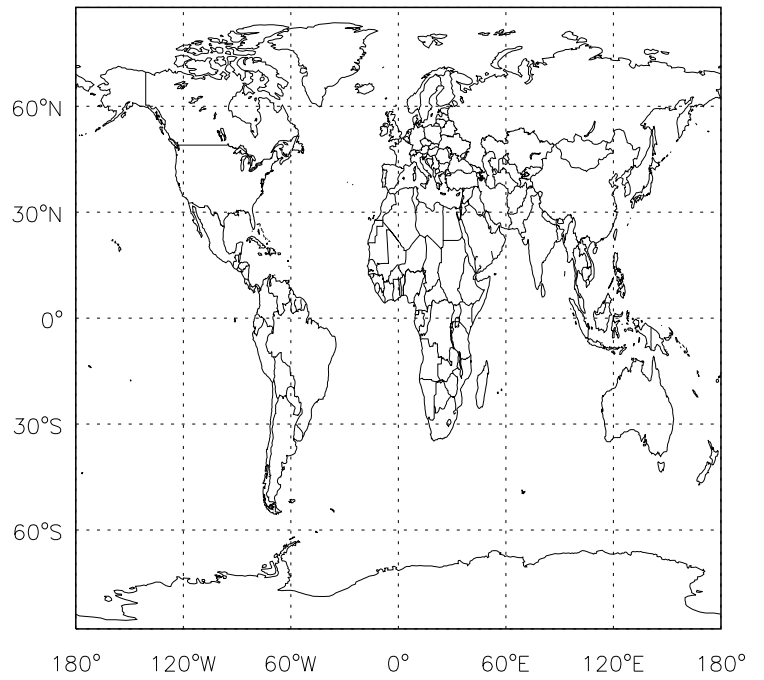
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>2</sub>O - Diff @ Surface for Jan



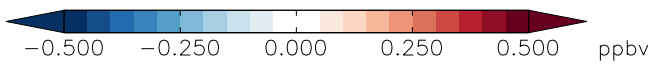
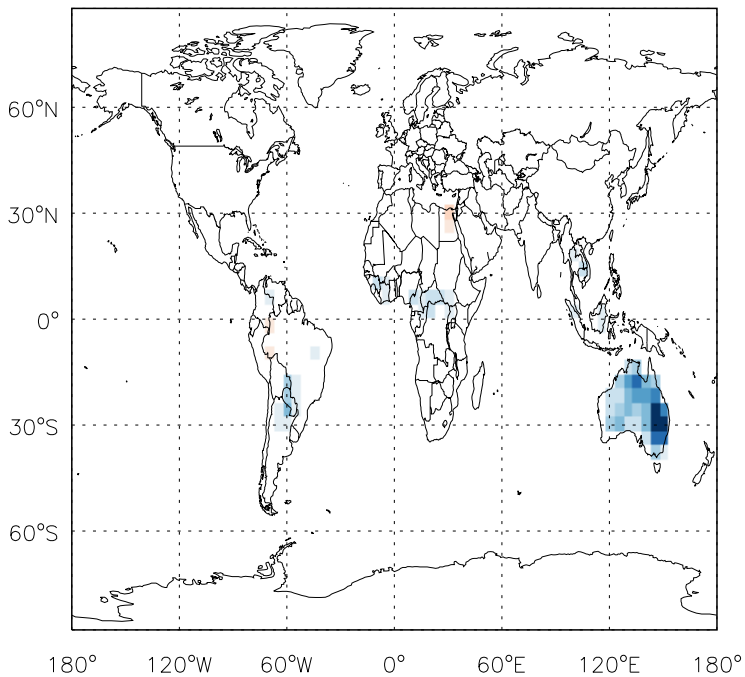
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>2</sub>O - Diff @ 500 hPa for Jan



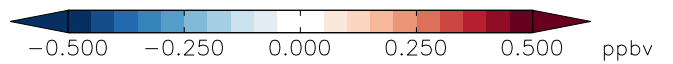
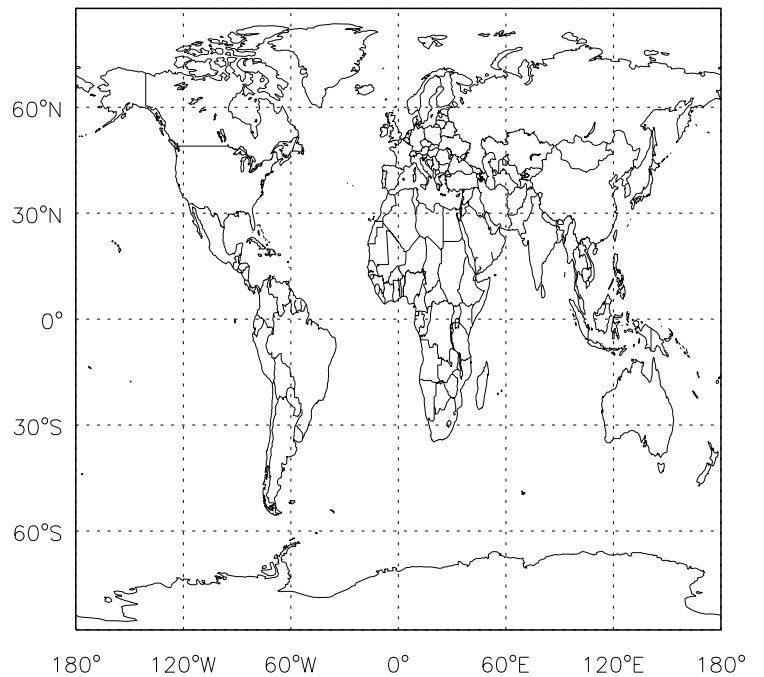
v11-01g-Run0 - v11-01d-Run1

CH<sub>2</sub>O - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

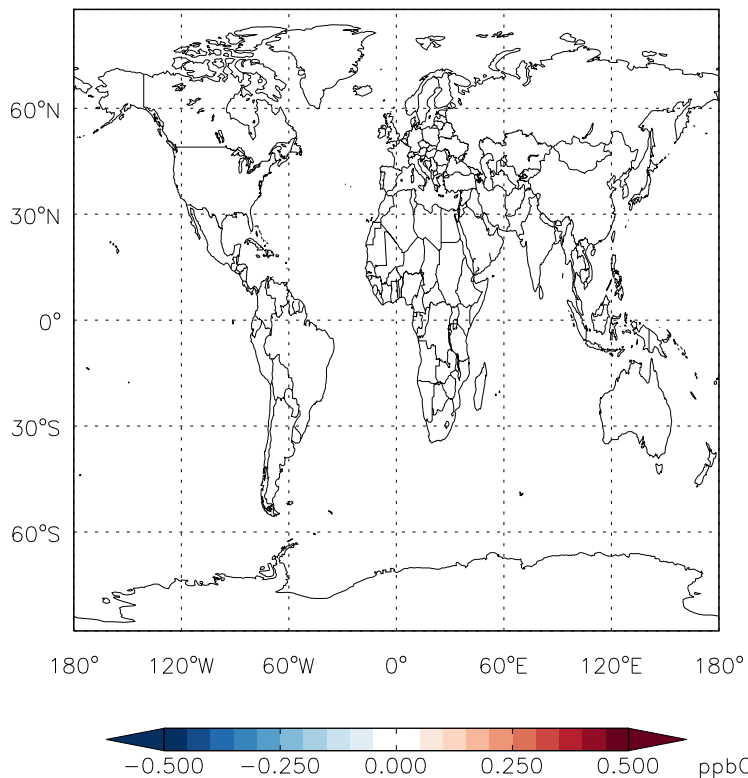
CH<sub>2</sub>O - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

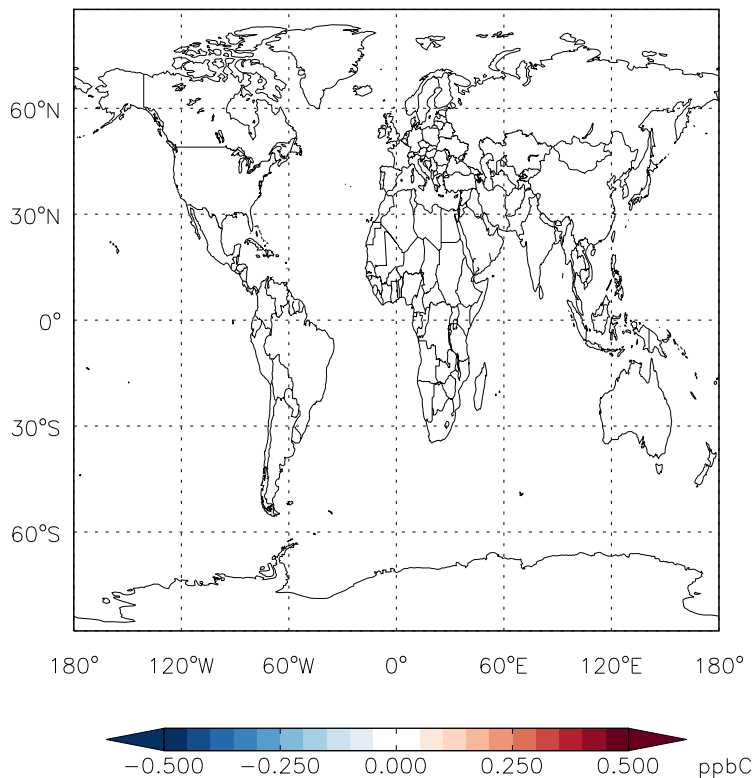
v11-01g-Run0 - v11-01f-geosfp-Run0

C2H6 - Diff @ Surface for Jan



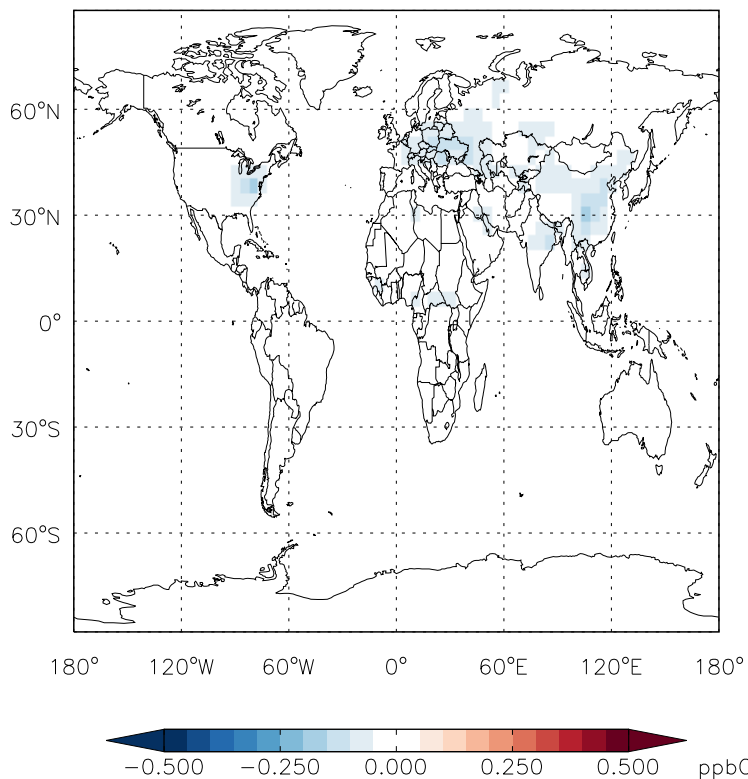
v11-01g-Run0 - v11-01f-geosfp-Run0

C2H6- Diff @ 500 hPa for Jan



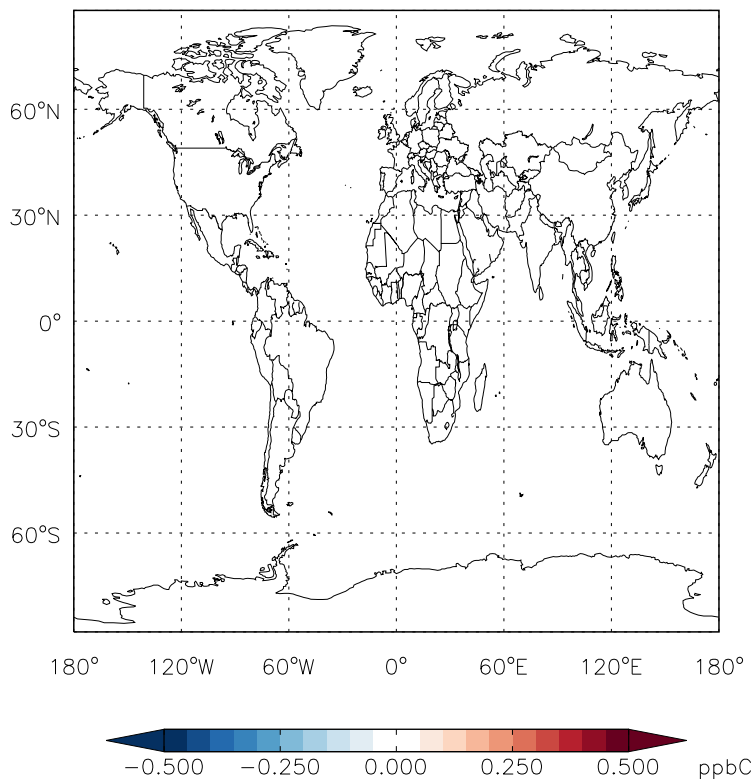
v11-01g-Run0 - v11-01d-Run1

C2H6 - Diff @ Surface for Jan



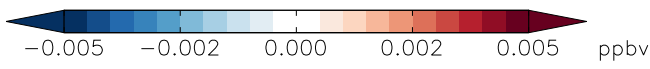
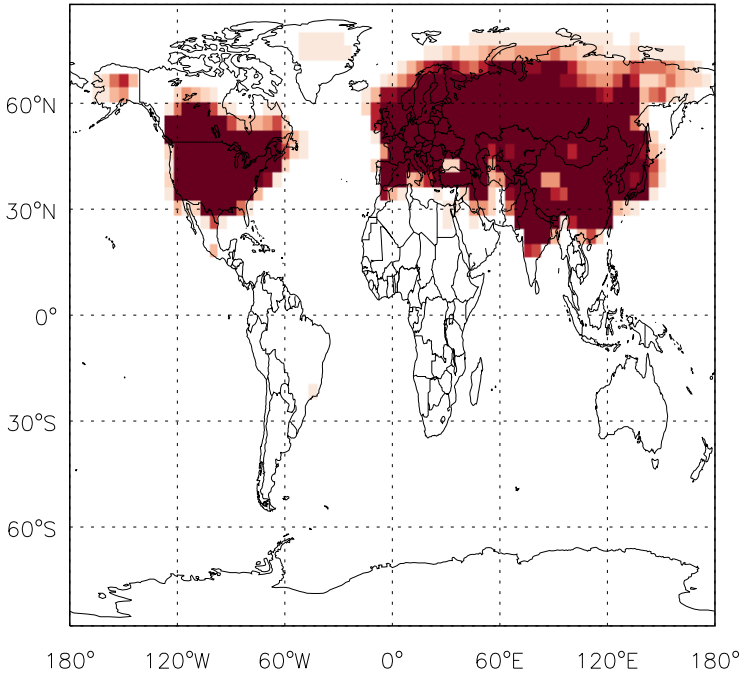
v11-01g-Run0 - v11-01d-Run1

C2H6- Diff @ 500 hPa for Jan

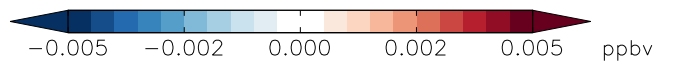
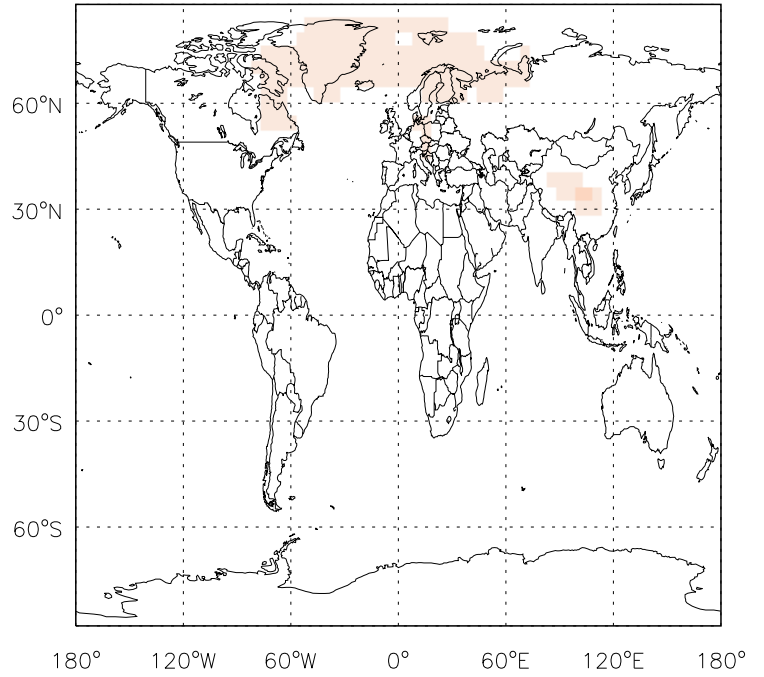


# GEOS-Chem Difference Maps at surface and 500 hPa

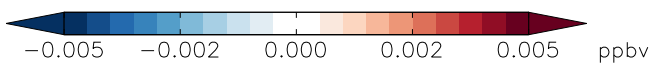
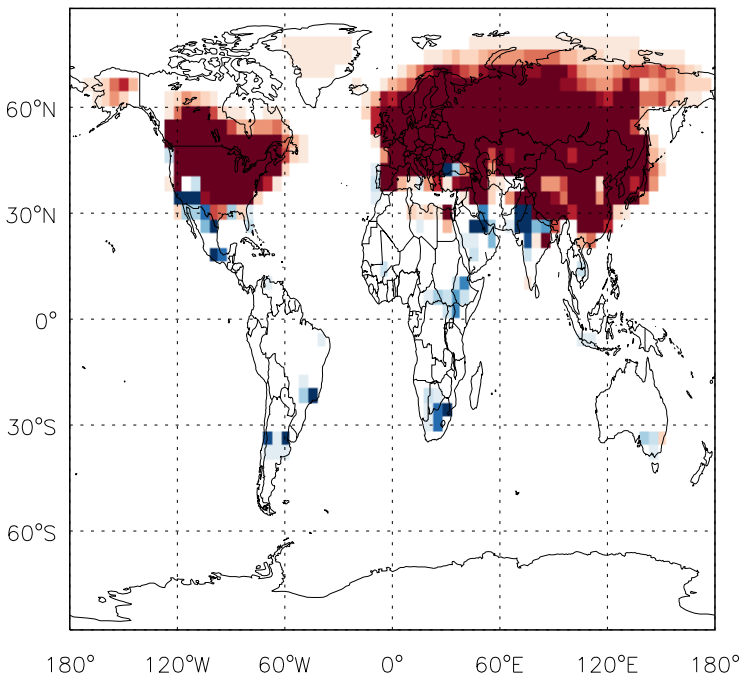
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O5 - Diff @ Surface for Jan



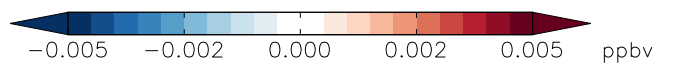
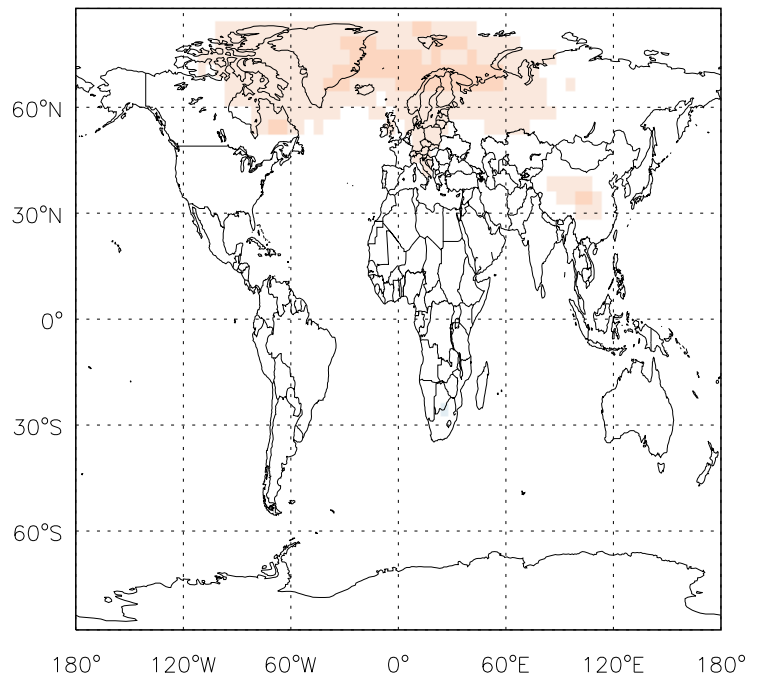
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O5 - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
N2O5 - Diff @ Surface for Jan



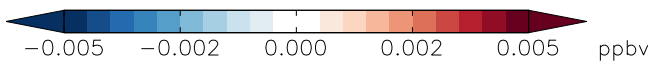
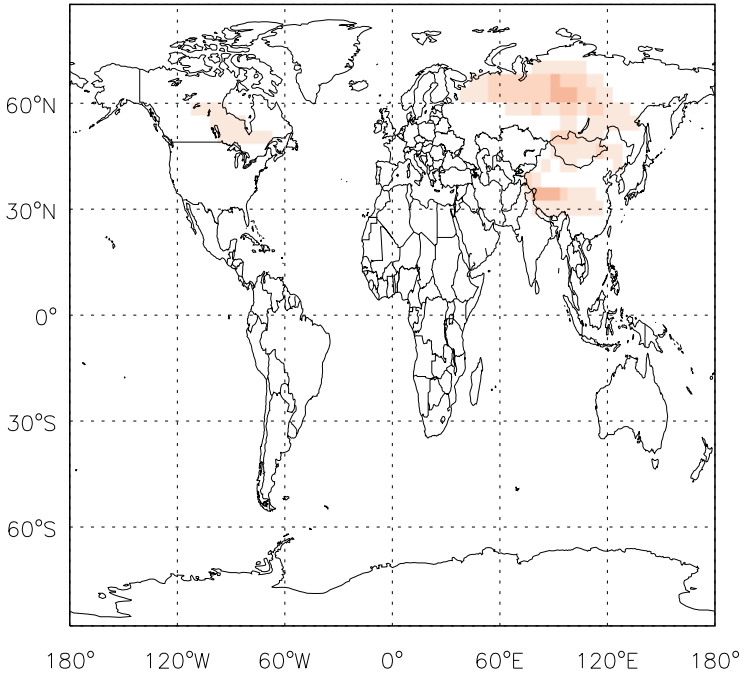
v11-01g-Run0 - v11-01d-Run1  
N2O5 - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

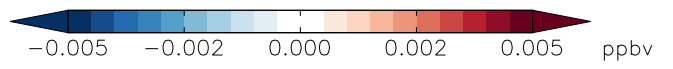
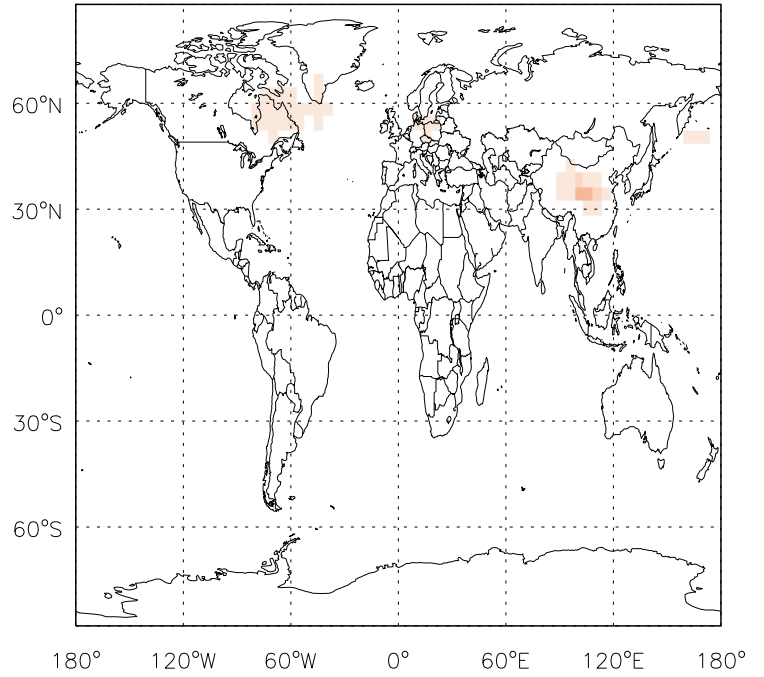
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>4</sub> - Diff @ Surface for Jan



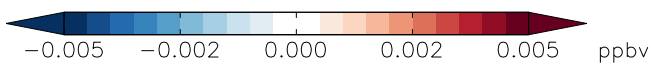
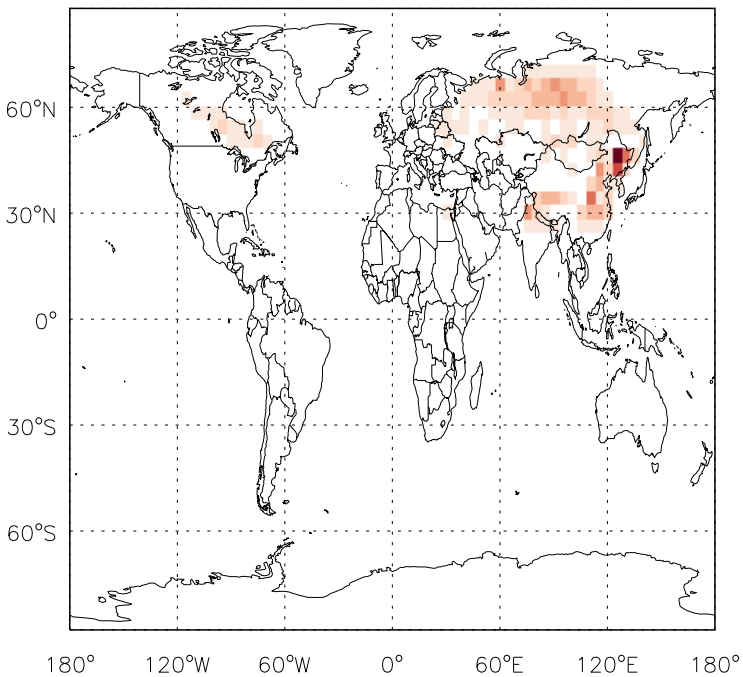
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>4</sub> - Diff @ 500 hPa for Jan



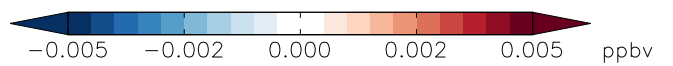
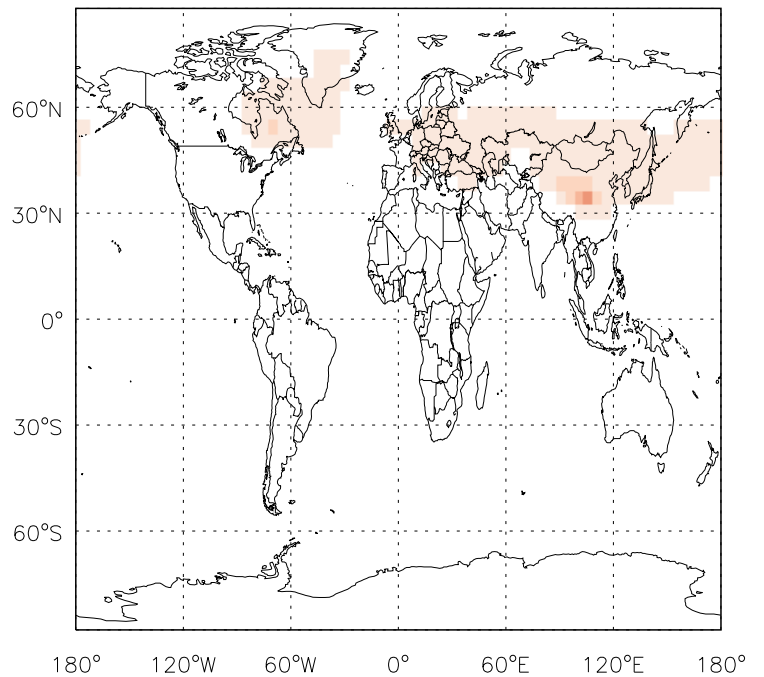
v11-01g-Run0 - v11-01d-Run1

HNO<sub>4</sub> - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

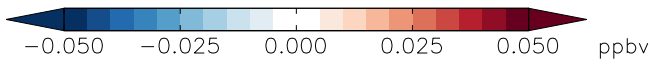
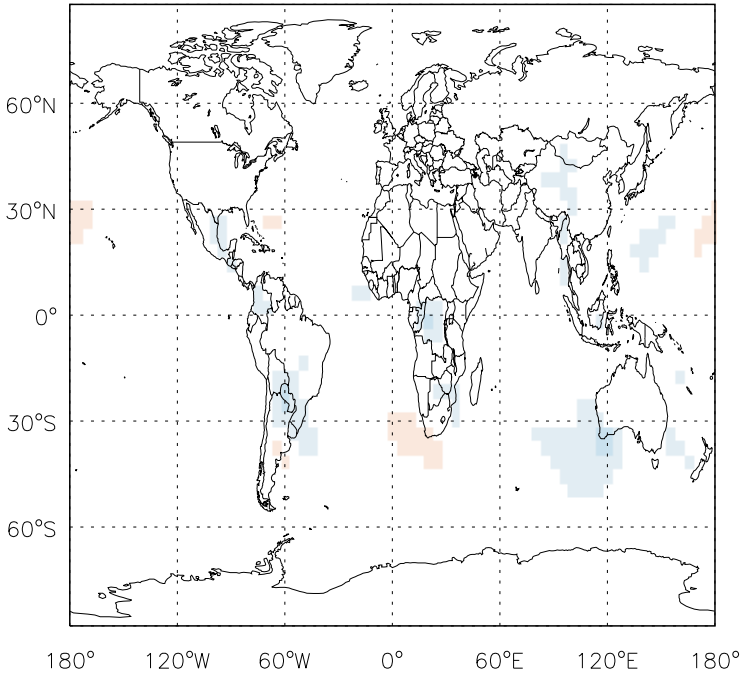
HNO<sub>4</sub> - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

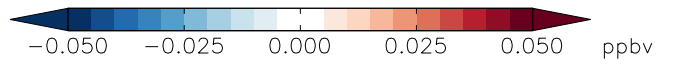
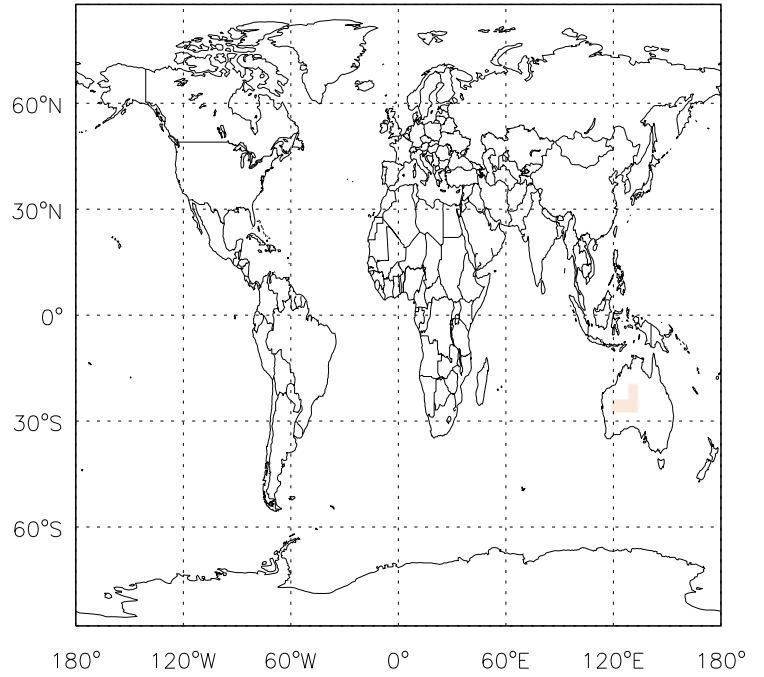
v11-01g-Run0 - v11-01f-geosfp-Run0

MP - Diff @ Surface for Jan



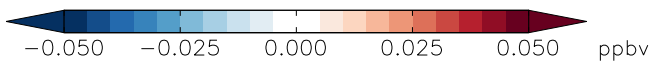
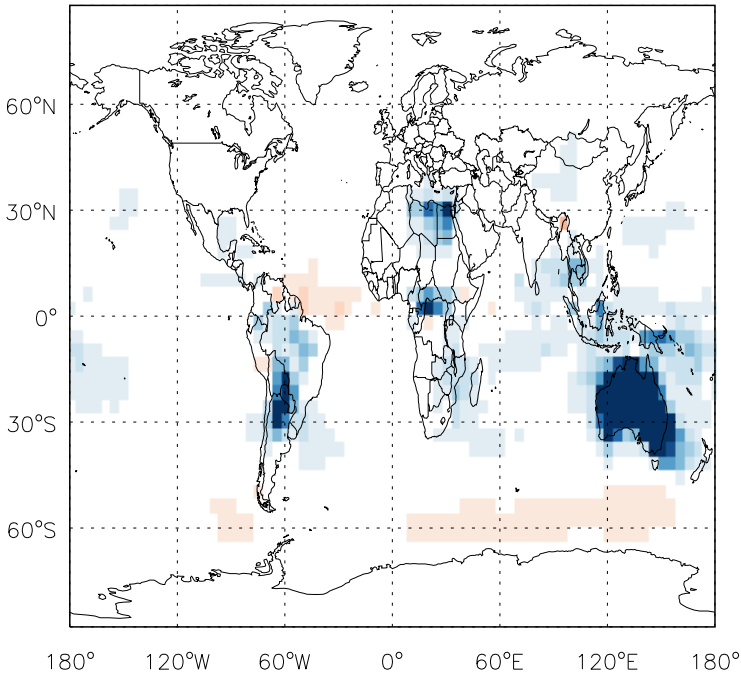
v11-01g-Run0 - v11-01f-geosfp-Run0

MP- Diff @ 500 hPa for Jan



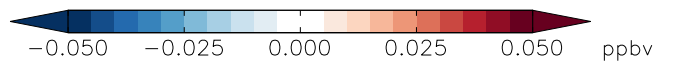
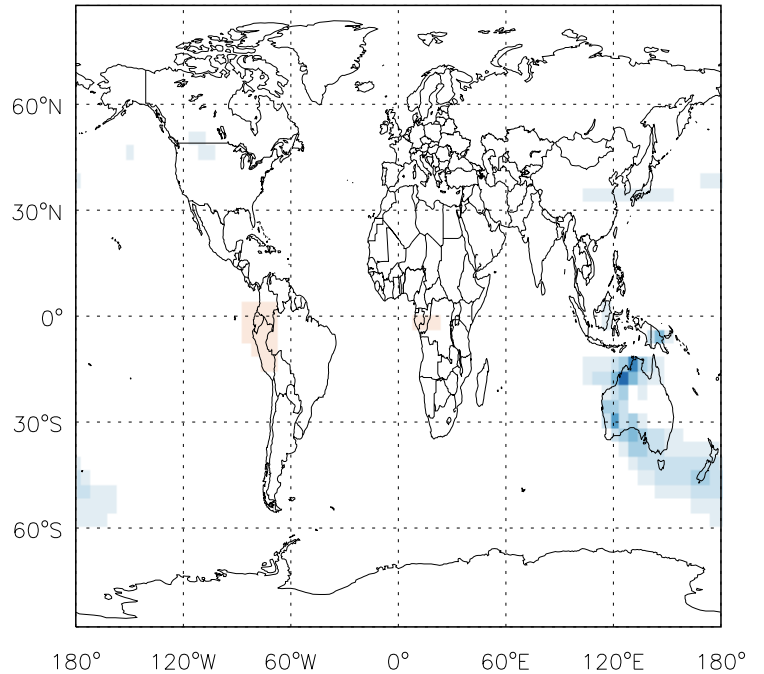
v11-01g-Run0 - v11-01d-Run1

MP - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

MP- Diff @ 500 hPa for Jan

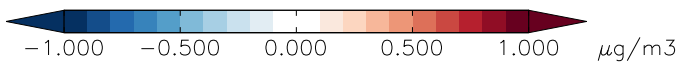
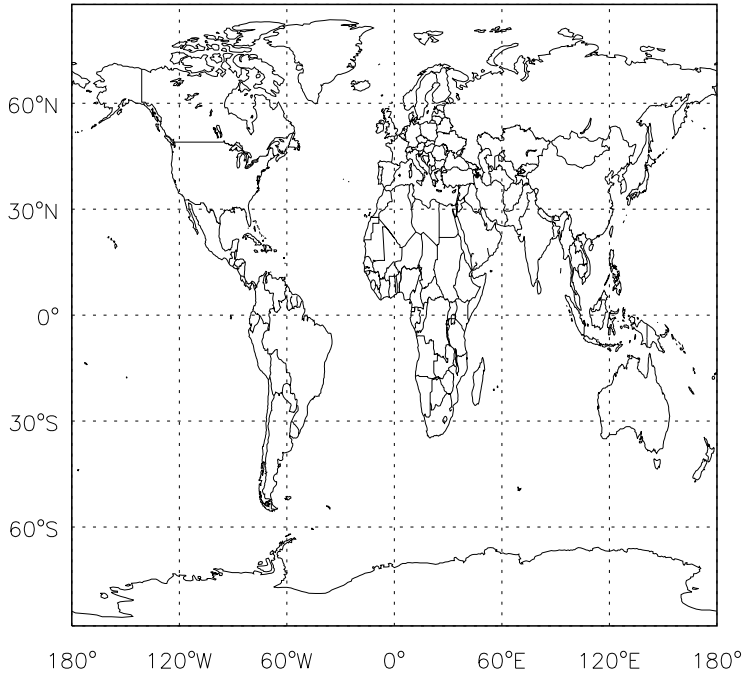




GEOS-Chem Difference Maps at surface and 500 hPa

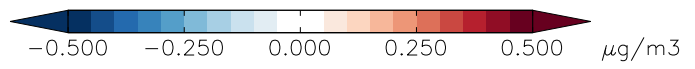
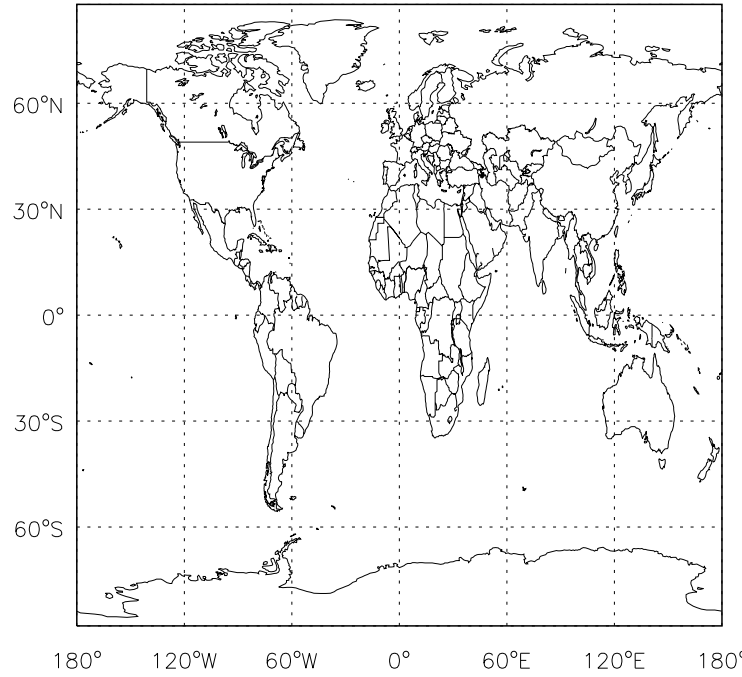
v11-01g-Run0 - v11-01f-geosfp-Run0

DMS - Diff @ Surface for Jan



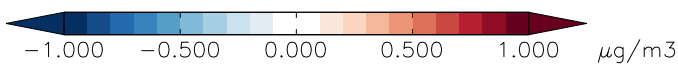
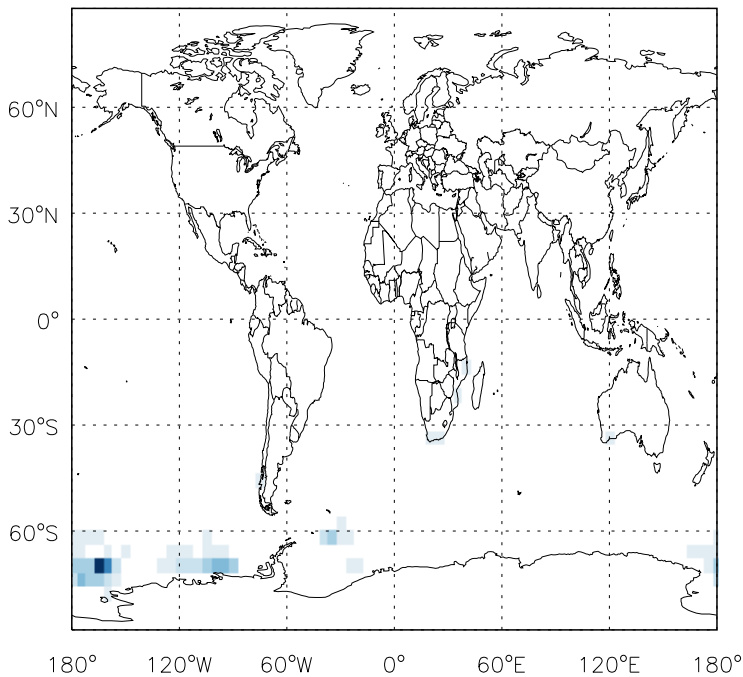
v11-01g-Run0 - v11-01f-geosfp-Run0

DMS- Diff @ 500 hPa for Jan



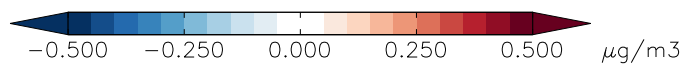
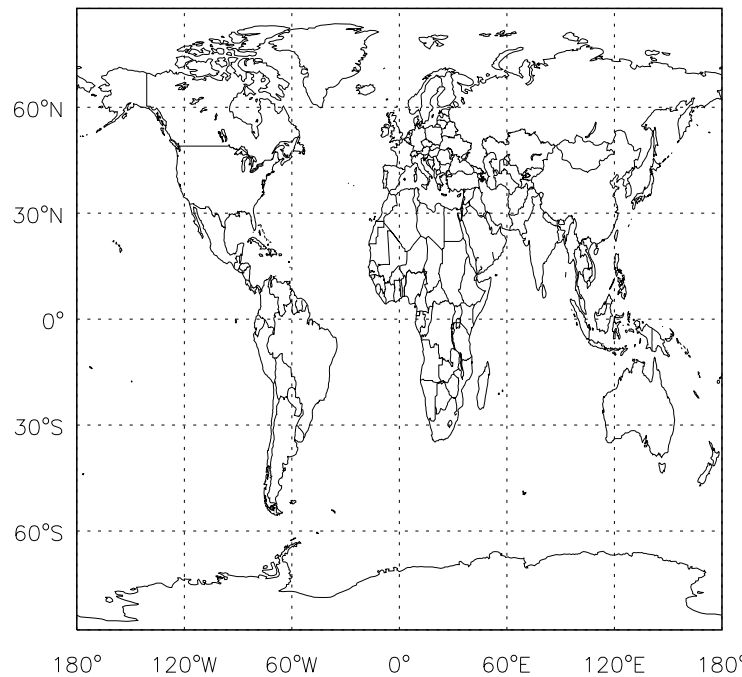
v11-01g-Run0 - v11-01d-Run1

DMS - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

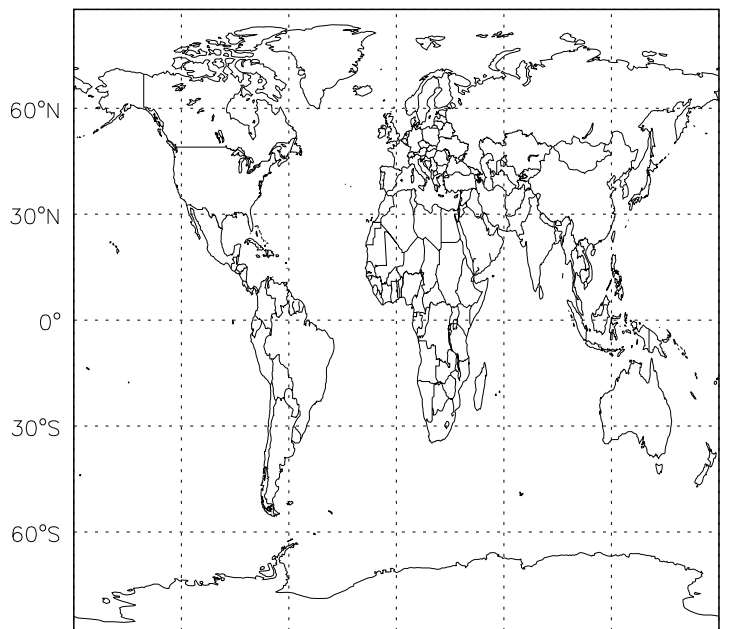
DMS- Diff @ 500 hPa for Jan



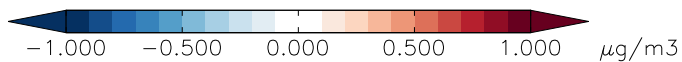
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

S<sub>02</sub> - Diff @ Surface for Jan

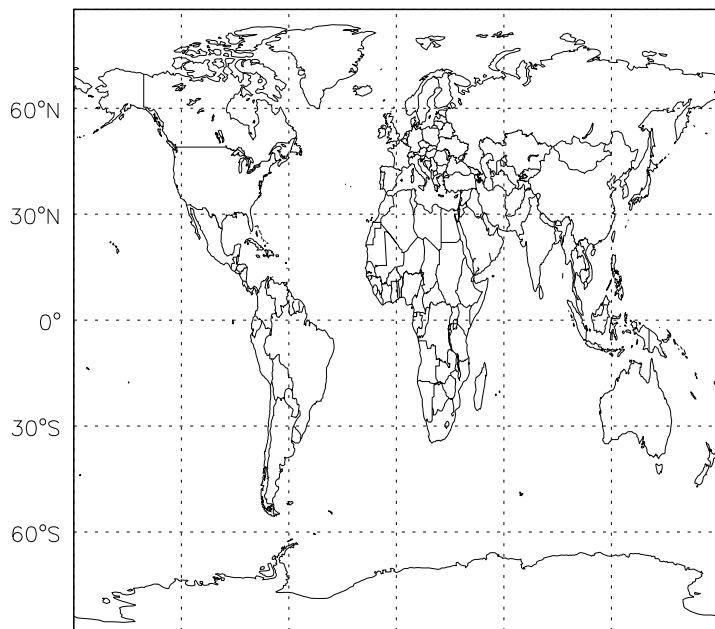


180° 120°W 60°W 0° 60°E 120°E 180°

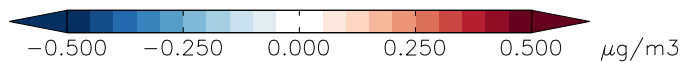


v11-01g-Run0 - v11-01f-geosfp-Run0

S<sub>02</sub> - Diff @ 500 hPa for Jan

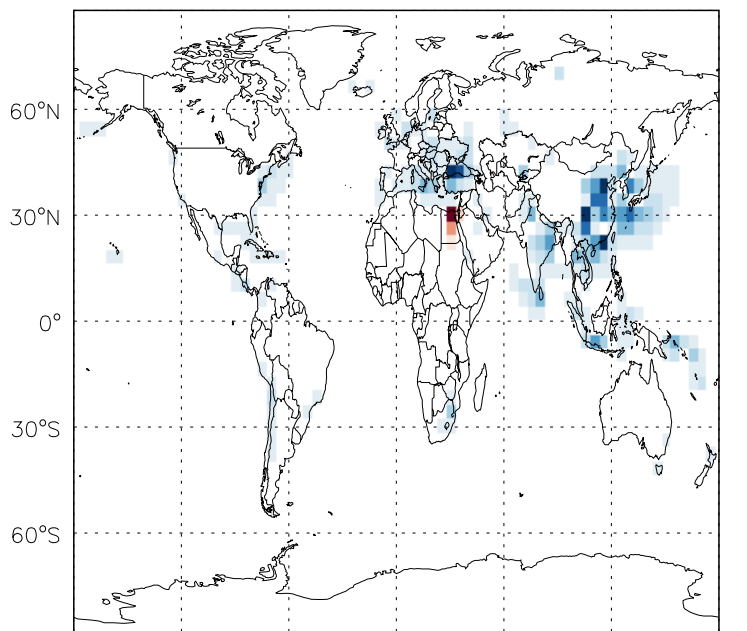


180° 120°W 60°W 0° 60°E 120°E 180°

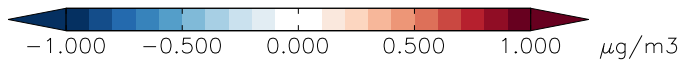


v11-01g-Run0 - v11-01d-Run1

S<sub>02</sub> - Diff @ Surface for Jan

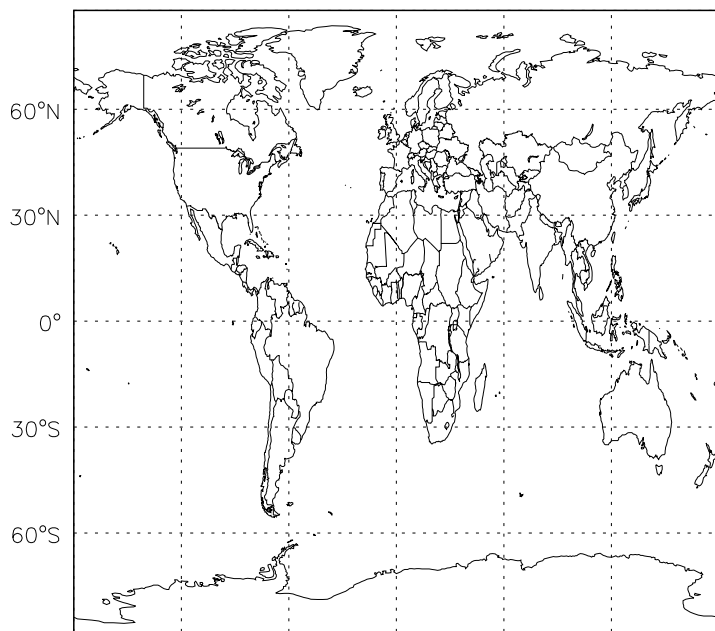


180° 120°W 60°W 0° 60°E 120°E 180°

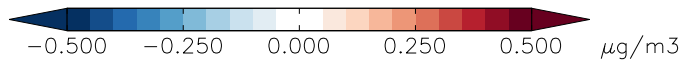


v11-01g-Run0 - v11-01d-Run1

S<sub>02</sub> - Diff @ 500 hPa for Jan



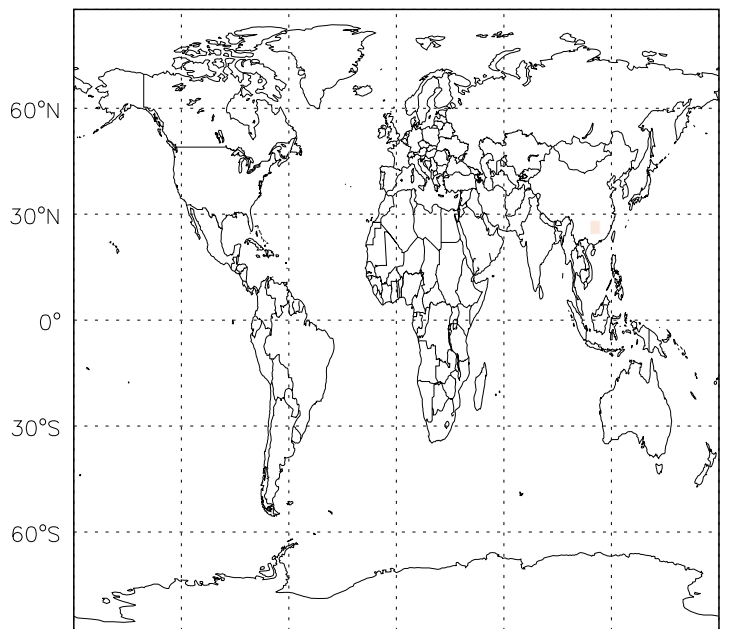
180° 120°W 60°W 0° 60°E 120°E 180°



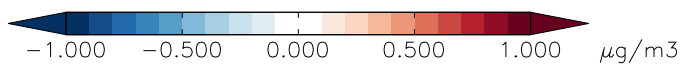
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

S04 - Diff @ Surface for Jan

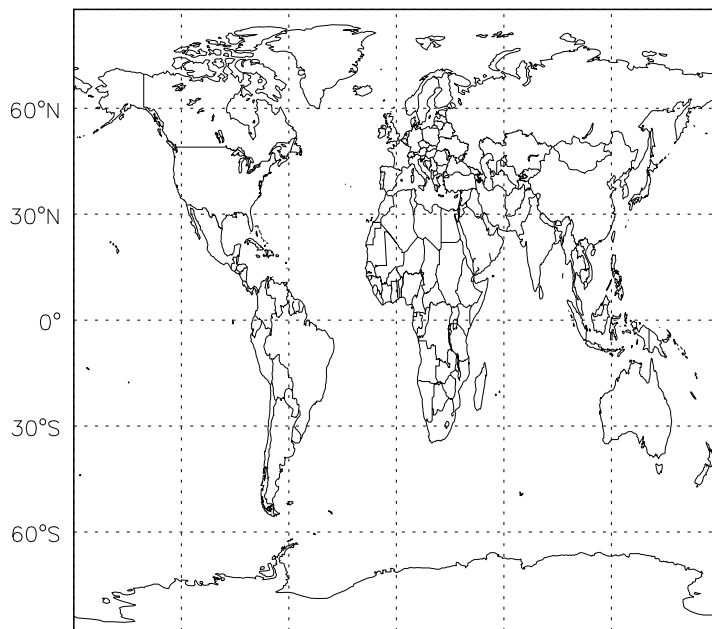


180° 120°W 60°W 0° 60°E 120°E 180°

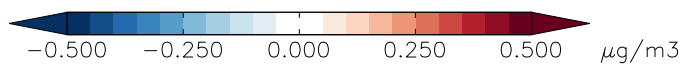


v11-01g-Run0 - v11-01f-geosfp-Run0

S04 - Diff @ 500 hPa for Jan

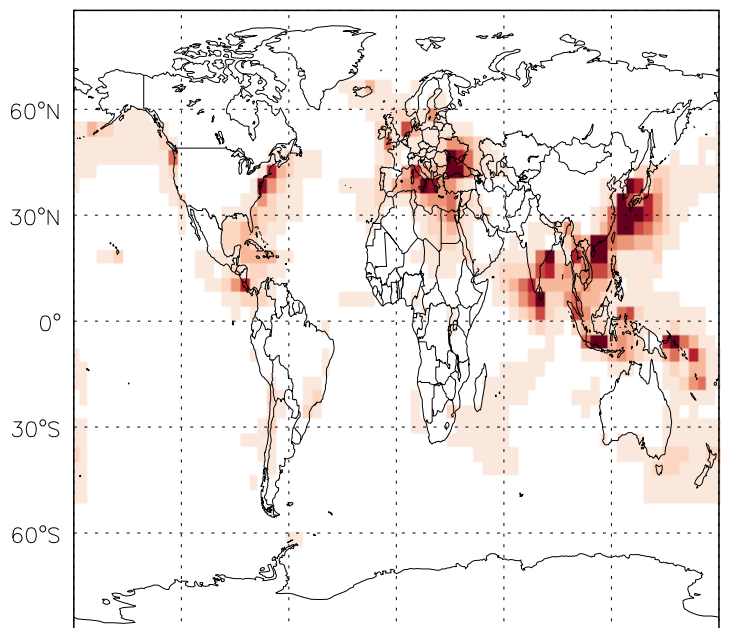


180° 120°W 60°W 0° 60°E 120°E 180°

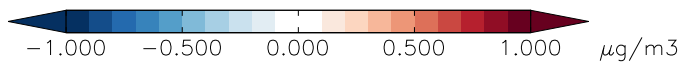


v11-01g-Run0 - v11-01d-Run1

S04 - Diff @ Surface for Jan

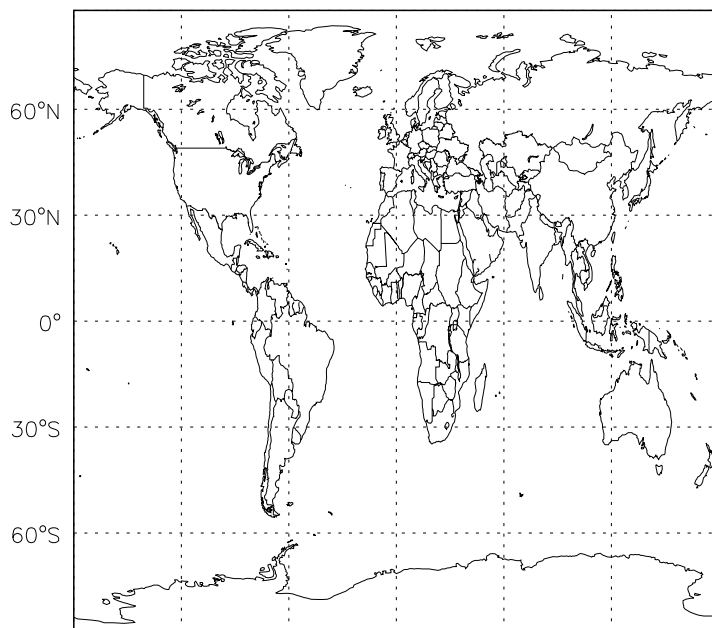


180° 120°W 60°W 0° 60°E 120°E 180°

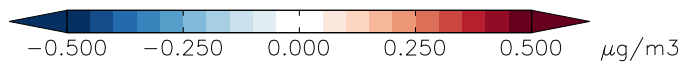


v11-01g-Run0 - v11-01d-Run1

S04 - Diff @ 500 hPa for Jan



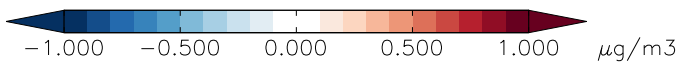
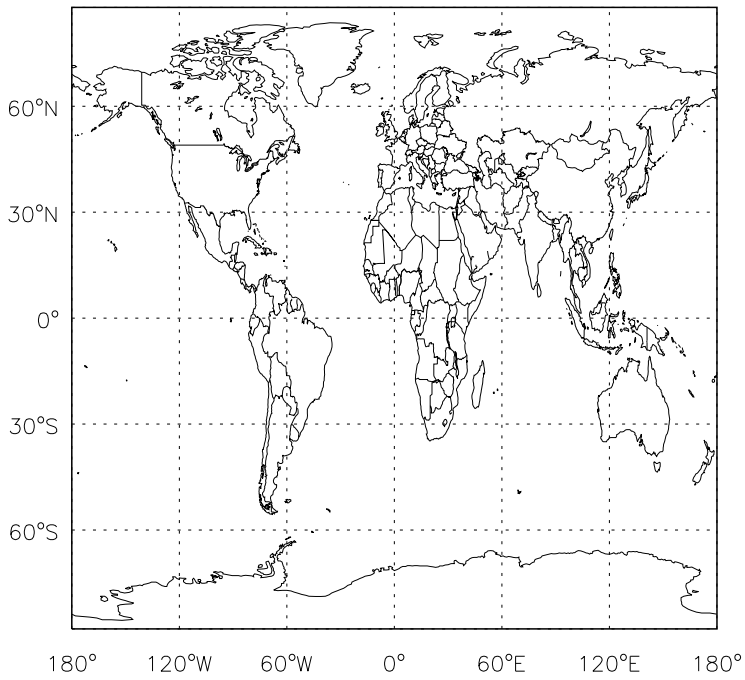
180° 120°W 60°W 0° 60°E 120°E 180°



# GEOS-Chem Difference Maps at surface and 500 hPa

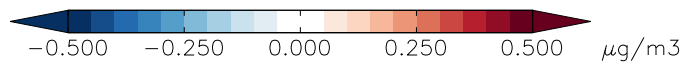
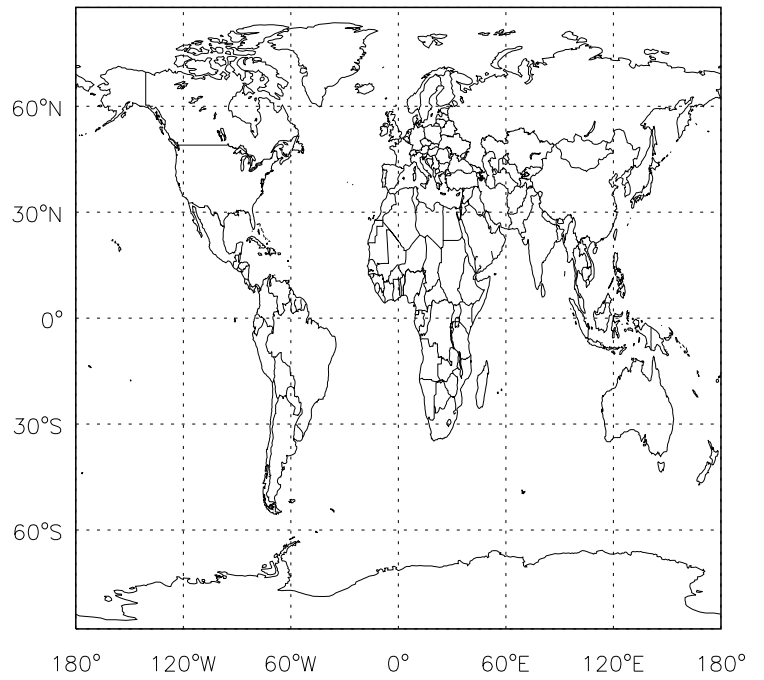
v11-01g-Run0 - v11-01f-geosfp-Run0

SO<sub>4</sub>s - Diff @ Surface for Jan



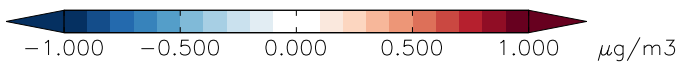
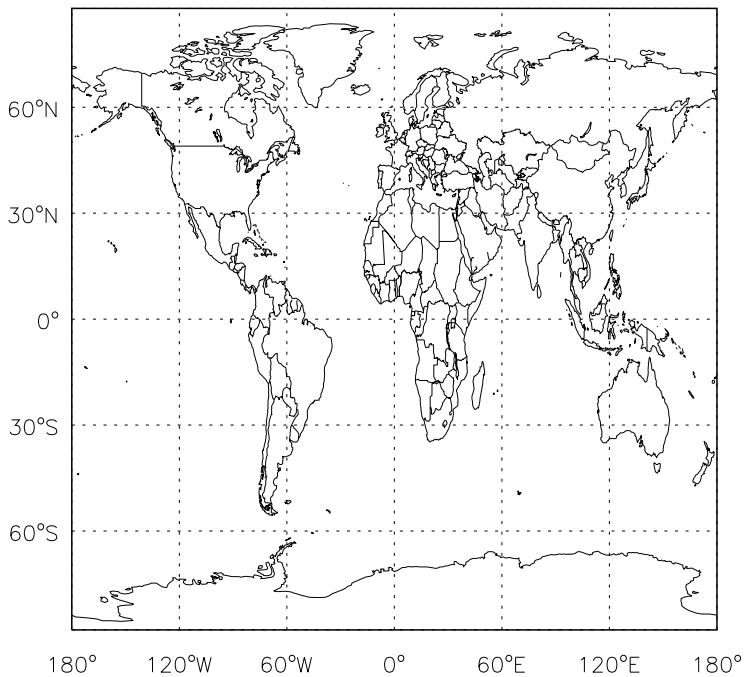
v11-01g-Run0 - v11-01f-geosfp-Run0

SO<sub>4</sub>s- Diff @ 500 hPa for Jan



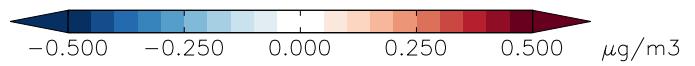
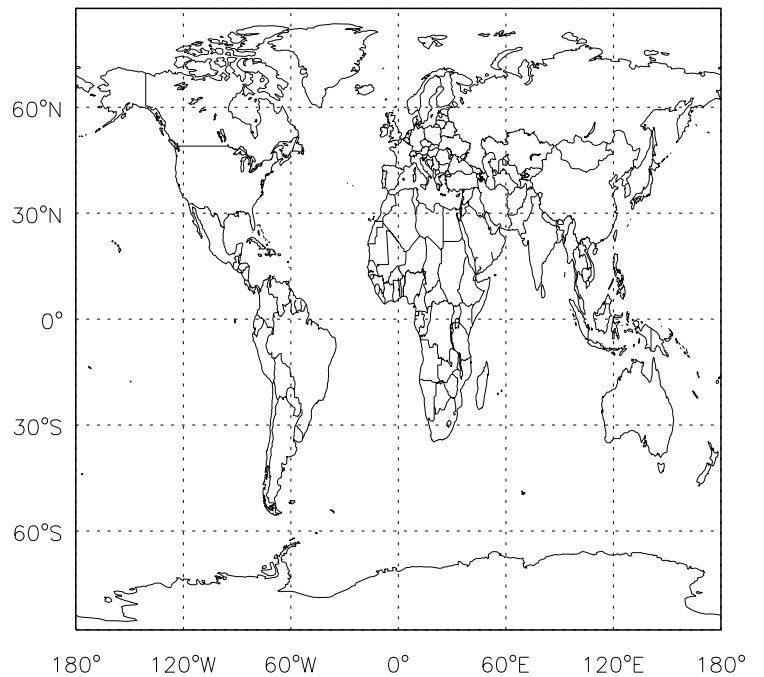
v11-01g-Run0 - v11-01d-Run1

SO<sub>4</sub>s - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

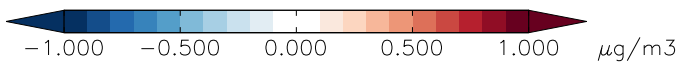
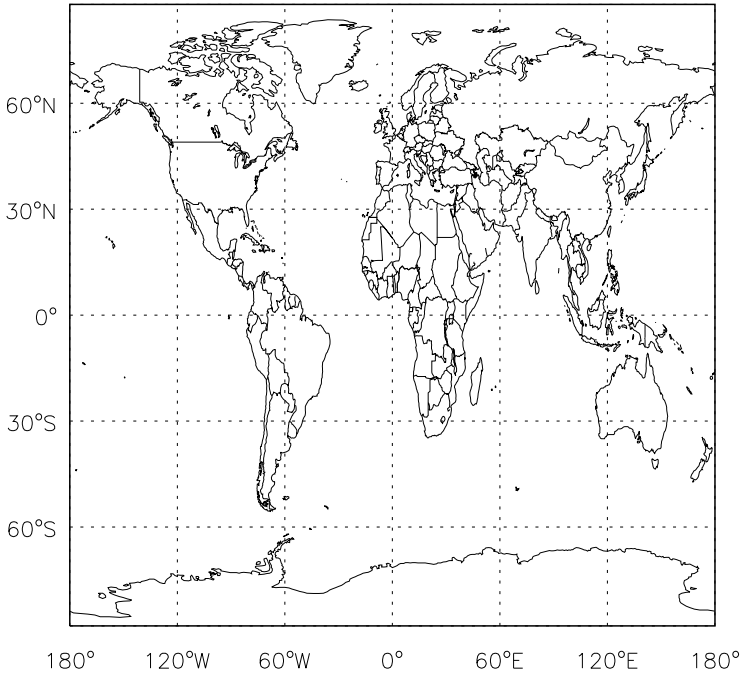
SO<sub>4</sub>s- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

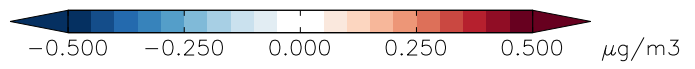
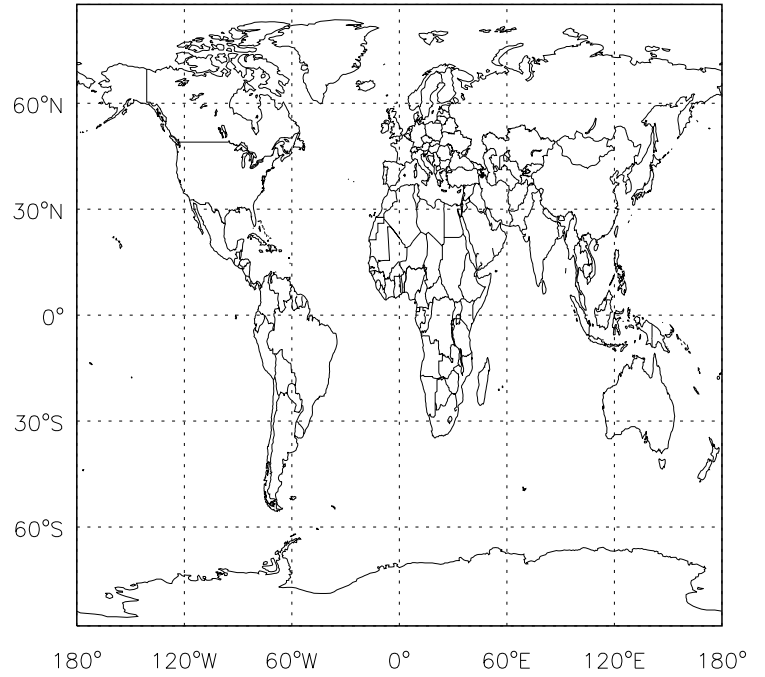
v11-01g-Run0 - v11-01f-geosfp-Run0

MSA - Diff @ Surface for Jan



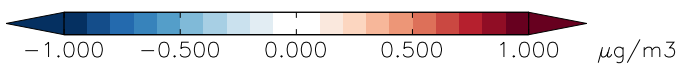
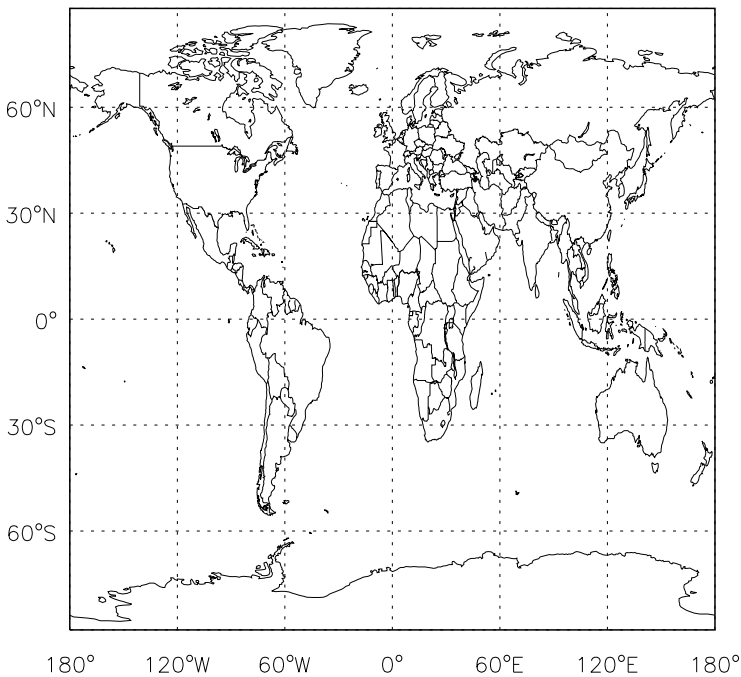
v11-01g-Run0 - v11-01f-geosfp-Run0

MSA - Diff @ 500 hPa for Jan



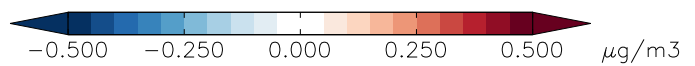
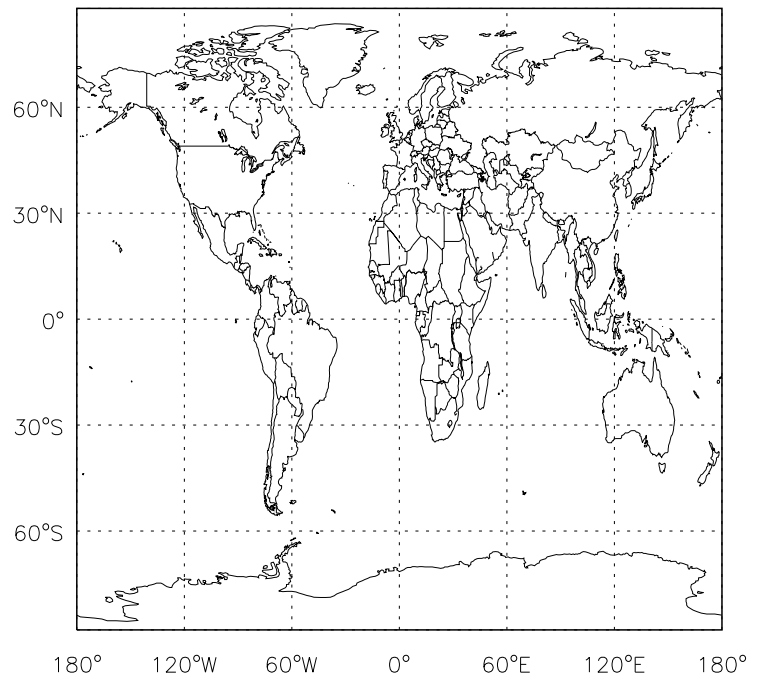
v11-01g-Run0 - v11-01d-Run1

MSA - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

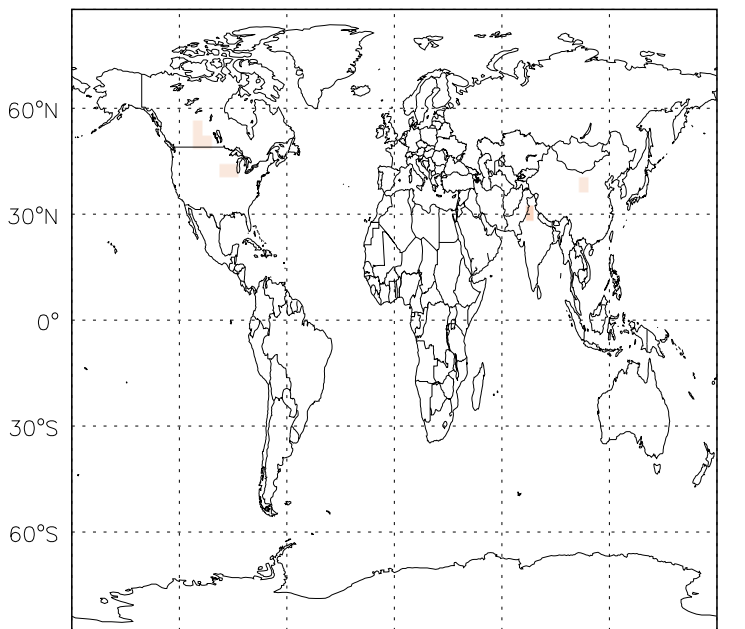
MSA - Diff @ 500 hPa for Jan



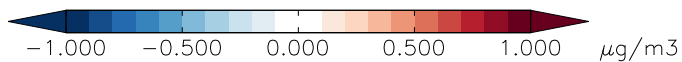
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

NH3 - Diff @ Surface for Jan

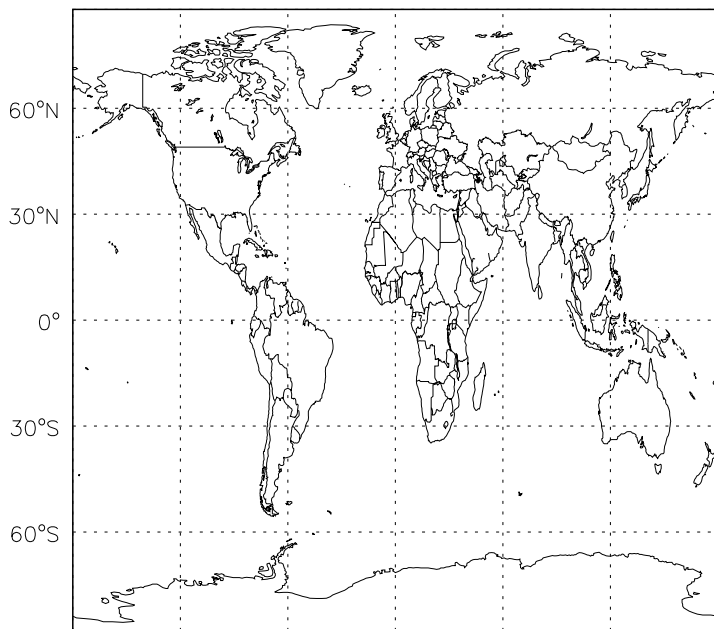


180° 120°W 60°W 0° 60°E 120°E 180°

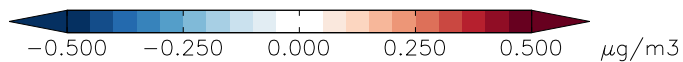


v11-01g-Run0 - v11-01f-geosfp-Run0

NH3- Diff @ 500 hPa for Jan

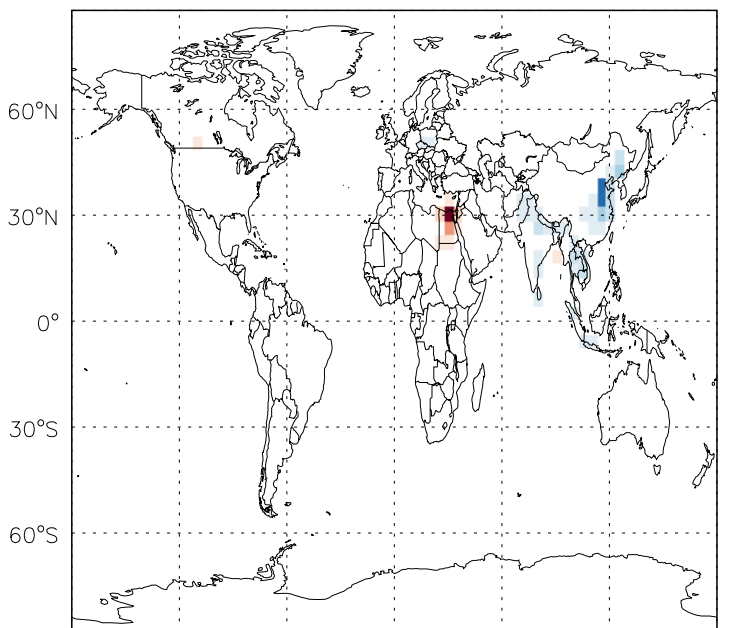


180° 120°W 60°W 0° 60°E 120°E 180°

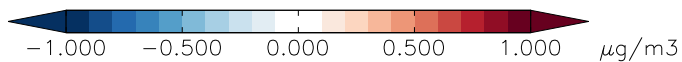


v11-01g-Run0 - v11-01d-Run1

NH3 - Diff @ Surface for Jan

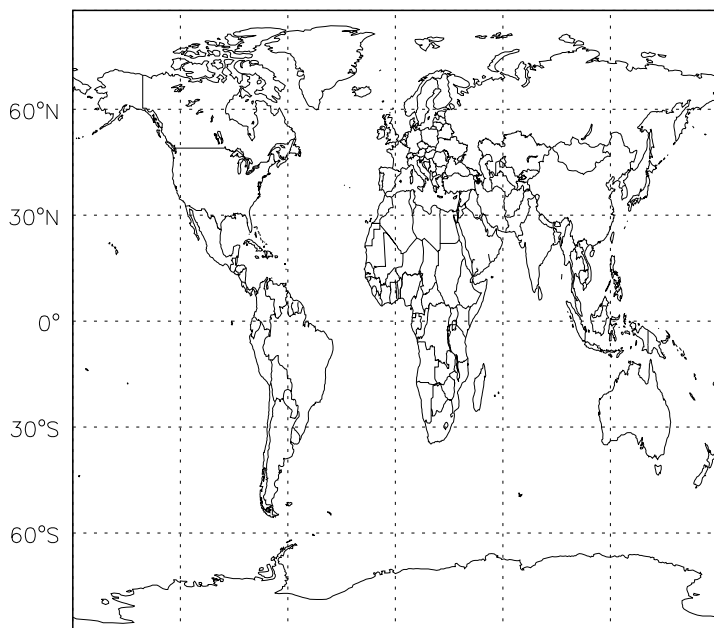


180° 120°W 60°W 0° 60°E 120°E 180°

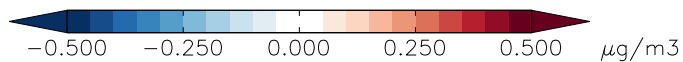


v11-01g-Run0 - v11-01d-Run1

NH3- Diff @ 500 hPa for Jan



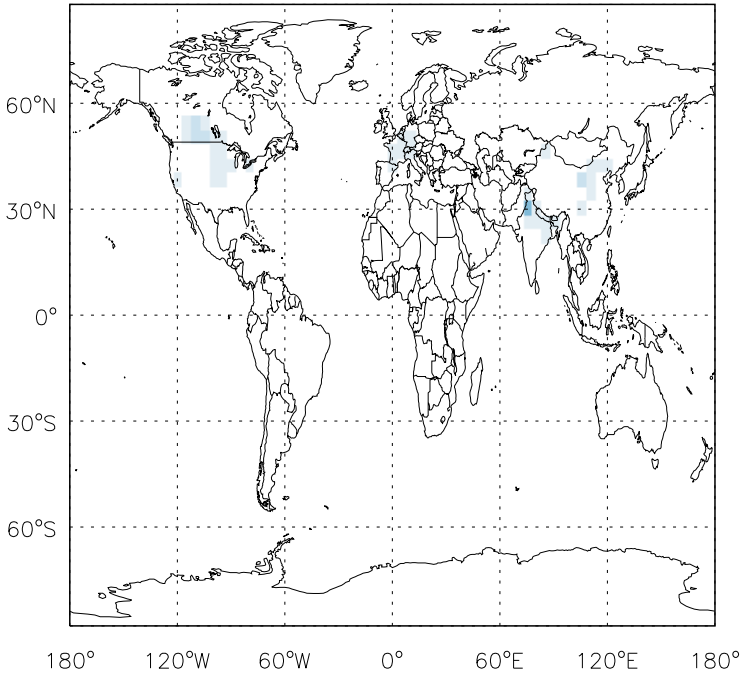
180° 120°W 60°W 0° 60°E 120°E 180°



GEOS-Chem Difference Maps at surface and 500 hPa

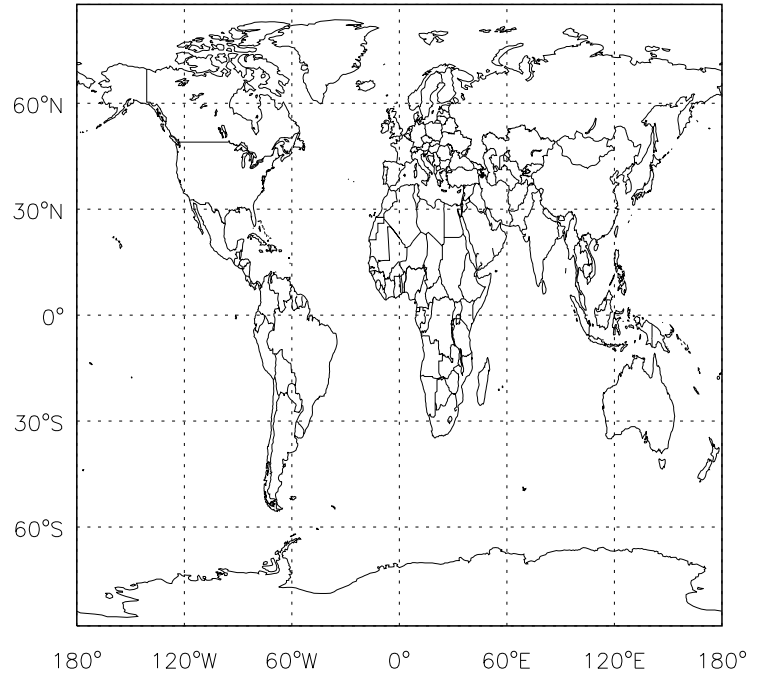
v11-01g-Run0 - v11-01f-geosfp-Run0

NH4 - Diff @ Surface for Jan



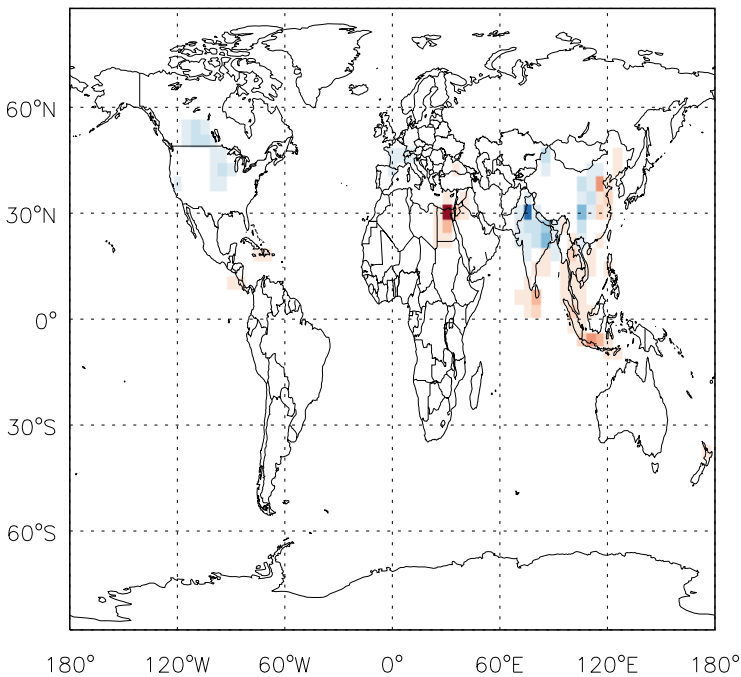
v11-01g-Run0 - v11-01f-geosfp-Run0

NH4- Diff @ 500 hPa for Jan



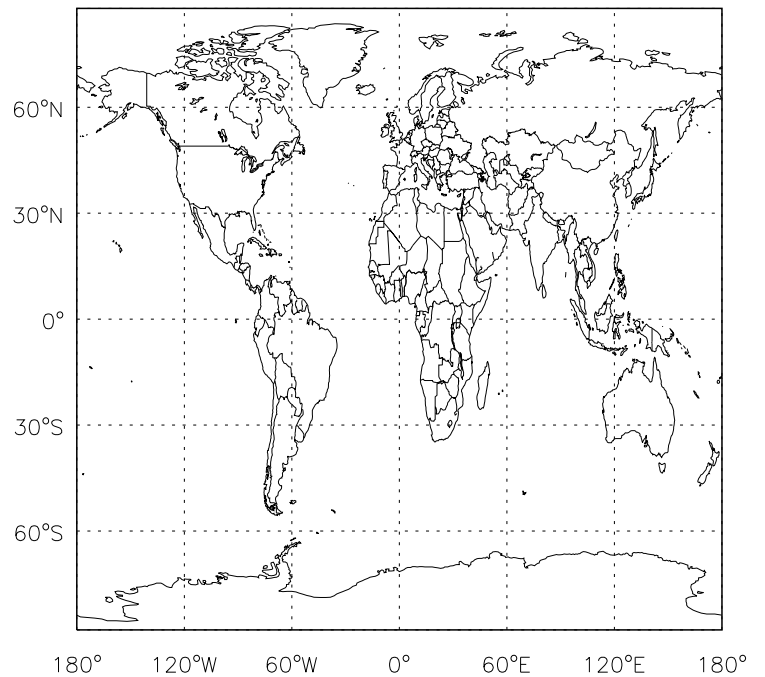
v11-01g-Run0 - v11-01d-Run1

NH4 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

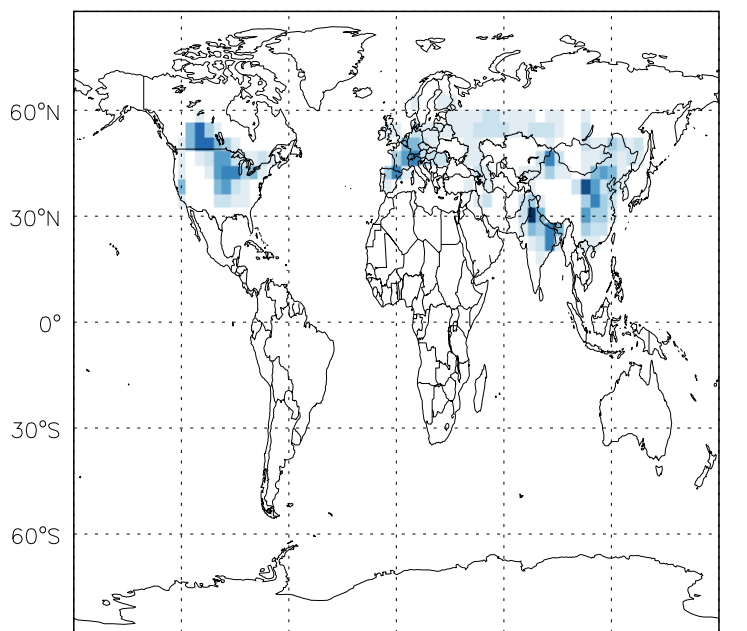
NH4- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

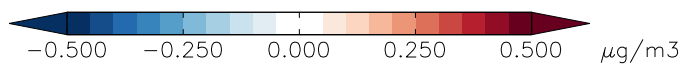
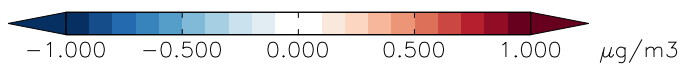
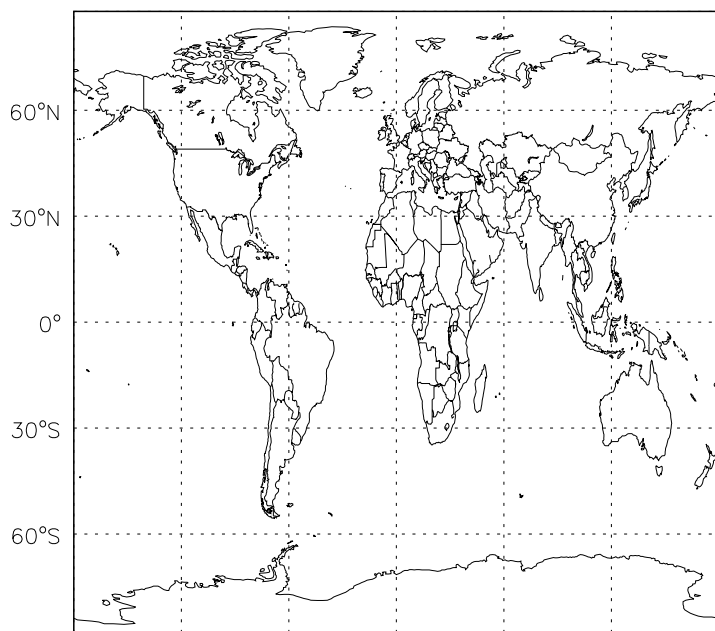
v11-01g-Run0 - v11-01f-geosfp-Run0

NIT - Diff @ Surface for Jan



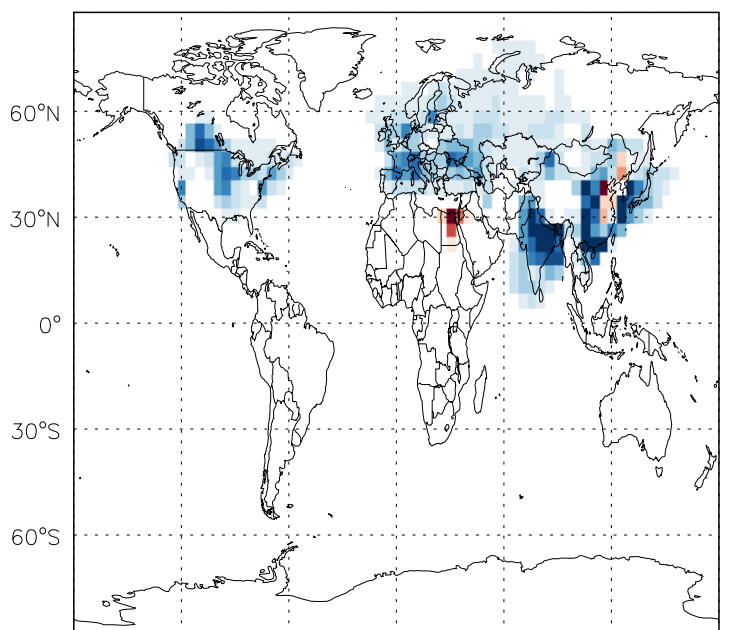
v11-01g-Run0 - v11-01f-geosfp-Run0

NIT- Diff @ 500 hPa for Jan



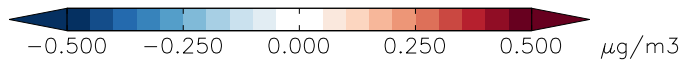
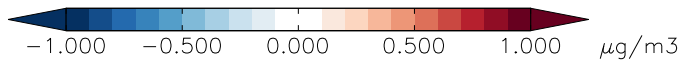
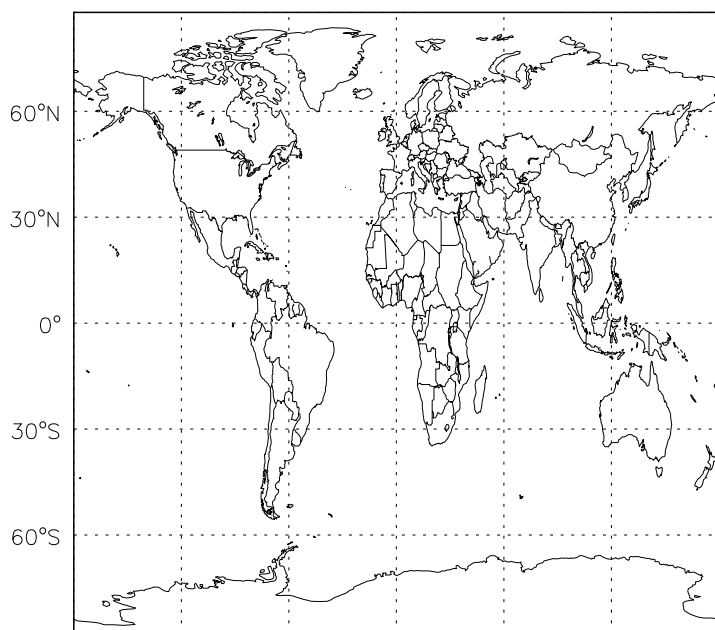
v11-01g-Run0 - v11-01d-Run1

NIT - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

NIT- Diff @ 500 hPa for Jan

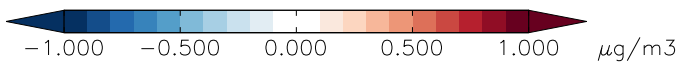
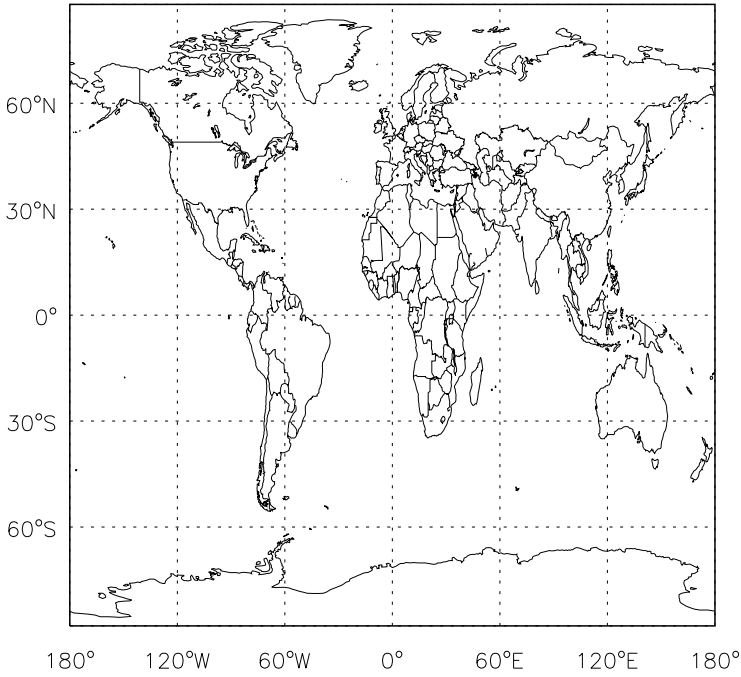




# GEOS-Chem Difference Maps at surface and 500 hPa

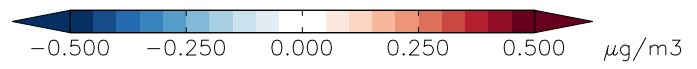
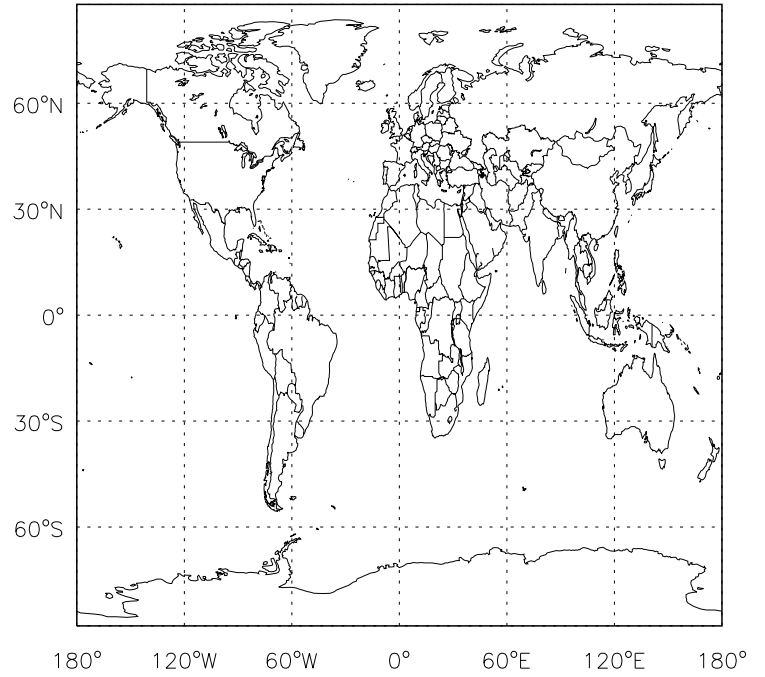
v11-01g-Run0 - v11-01f-geosfp-Run0

NITs - Diff @ Surface for Jan



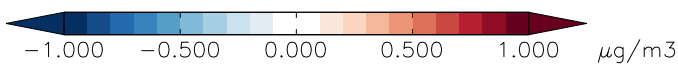
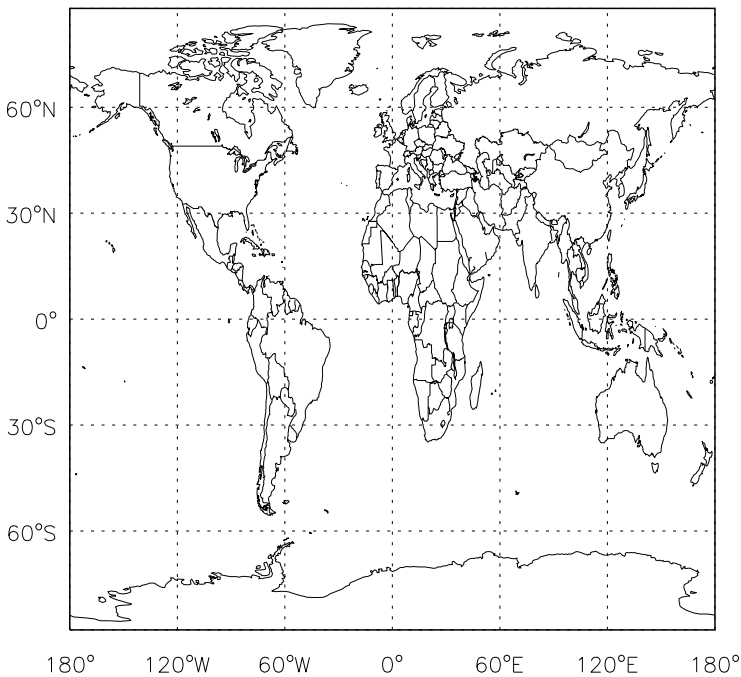
v11-01g-Run0 - v11-01f-geosfp-Run0

NITs- Diff @ 500 hPa for Jan



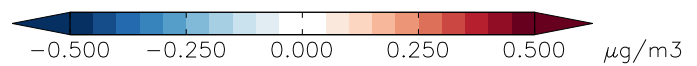
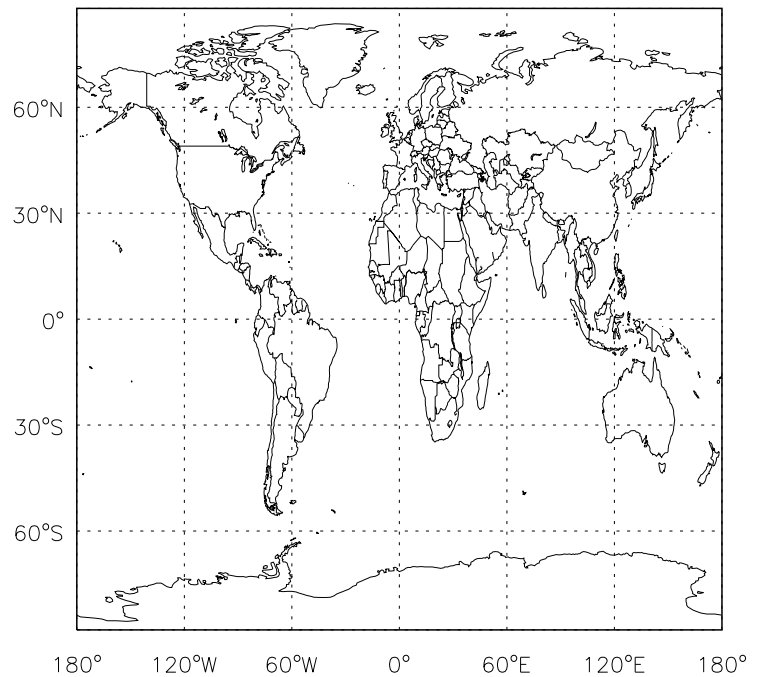
v11-01g-Run0 - v11-01d-Run1

NITs - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

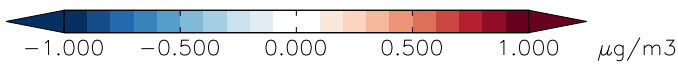
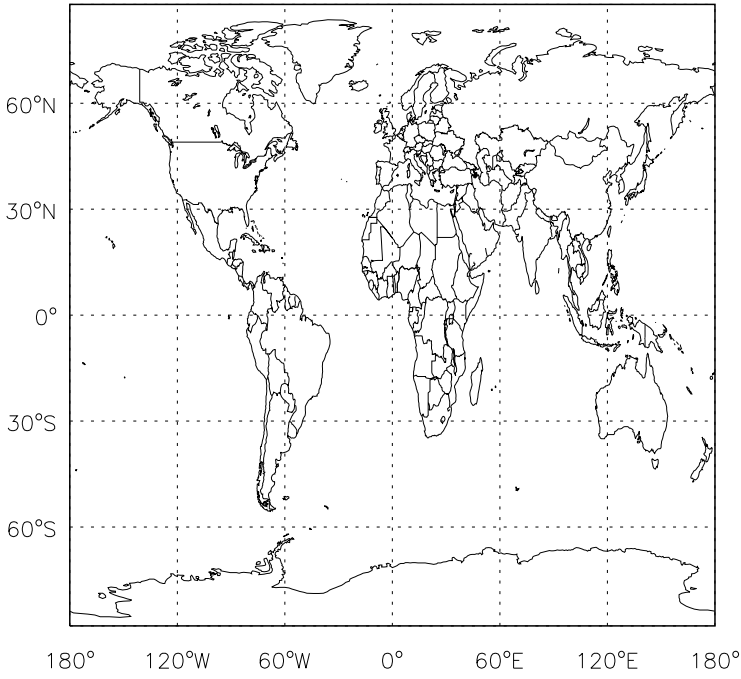
NITs- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

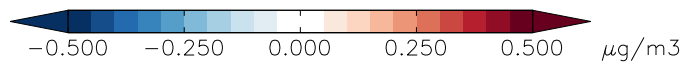
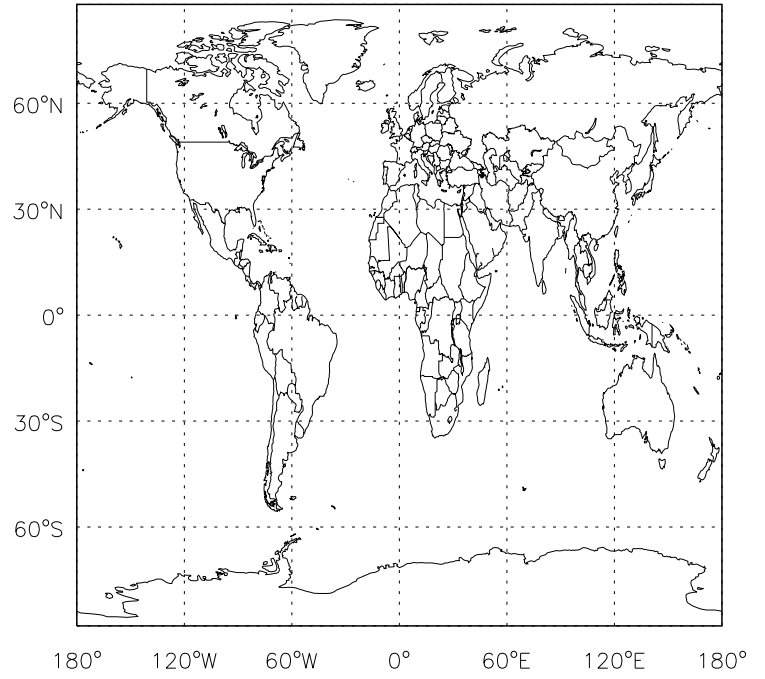
v11-01g-Run0 - v11-01f-geosfp-Run0

BCPI - Diff @ Surface for Jan



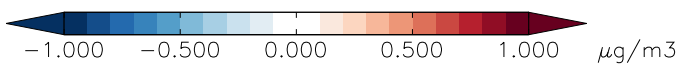
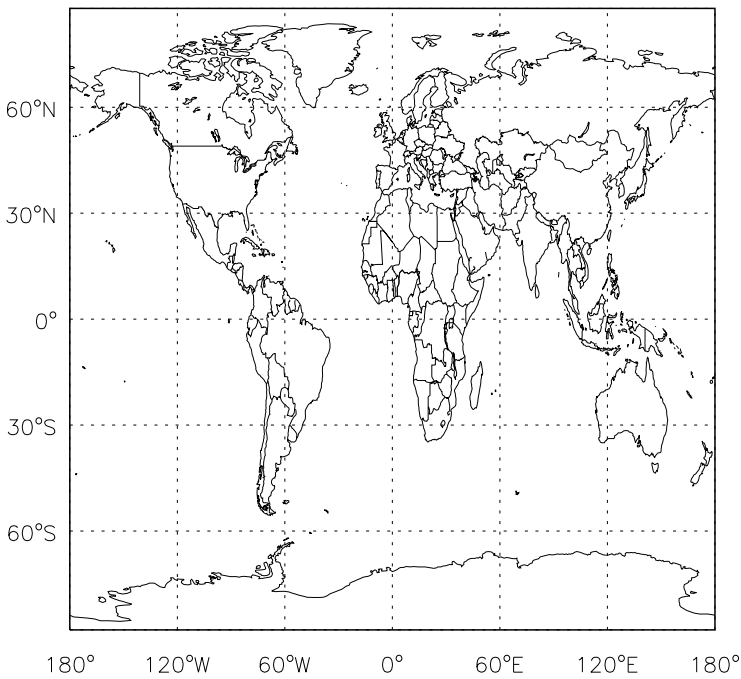
v11-01g-Run0 - v11-01f-geosfp-Run0

BCPI- Diff @ 500 hPa for Jan



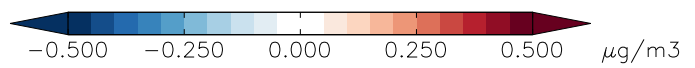
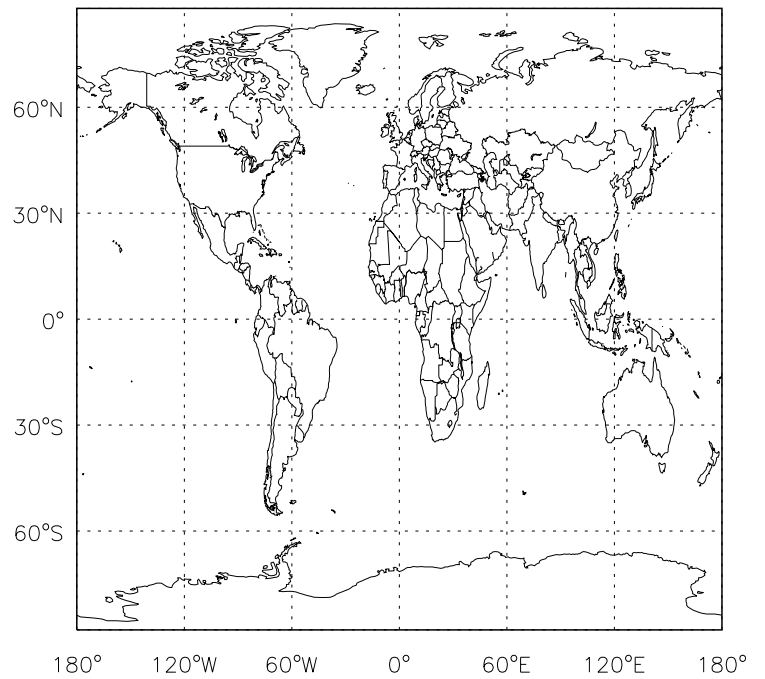
v11-01g-Run0 - v11-01d-Run1

BCPI - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

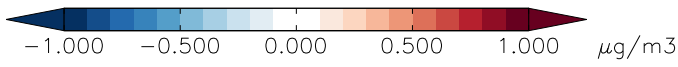
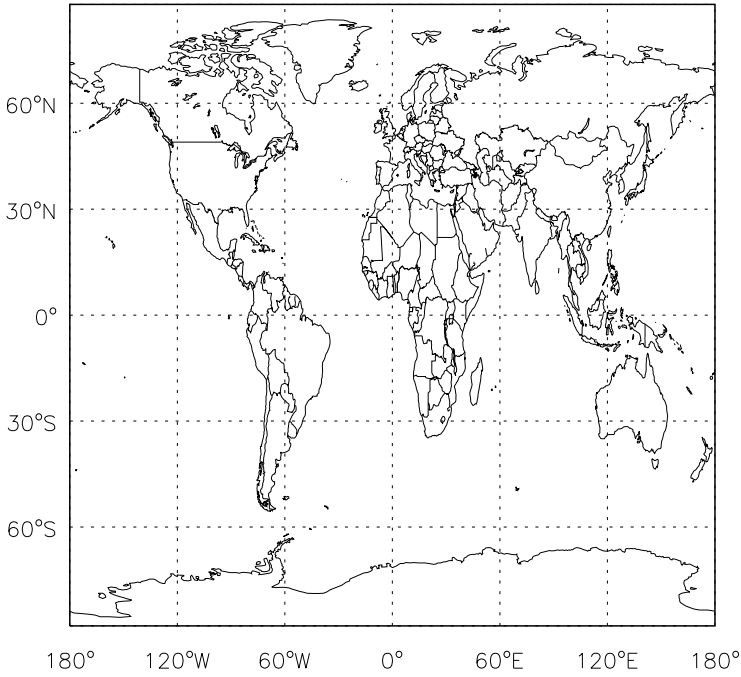
BCPI- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

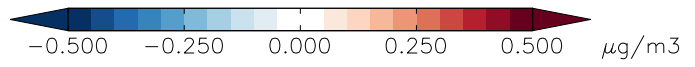
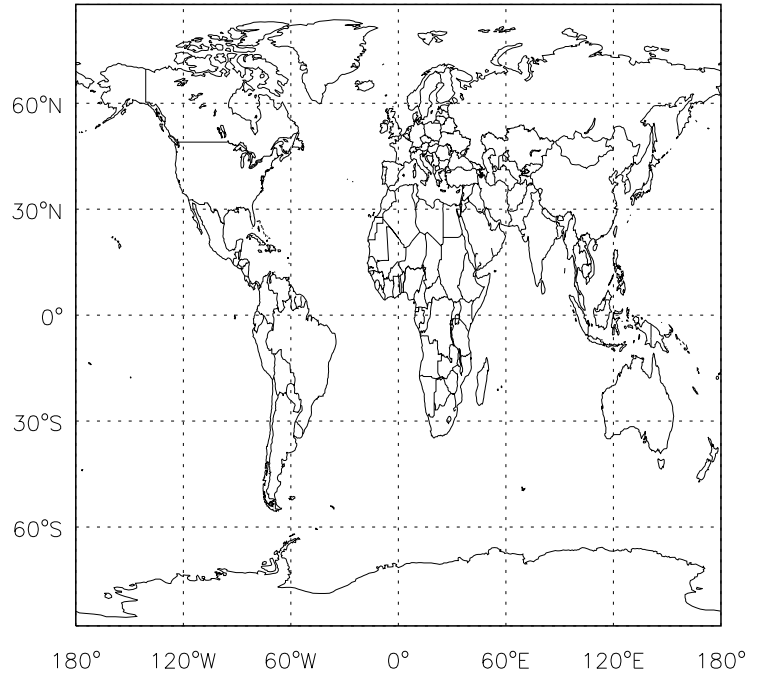
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPI - Diff @ Surface for Jan



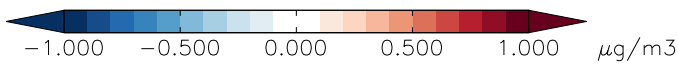
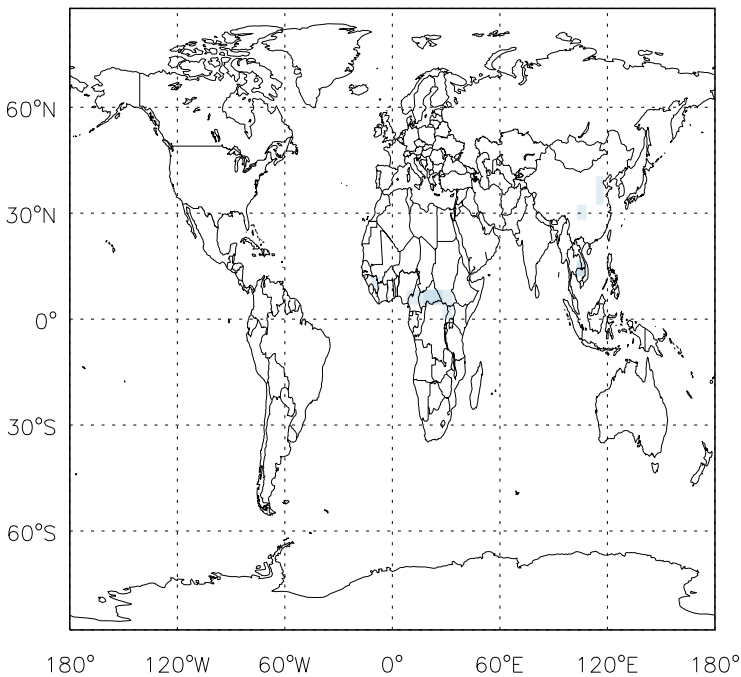
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPI- Diff @ 500 hPa for Jan



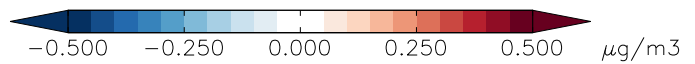
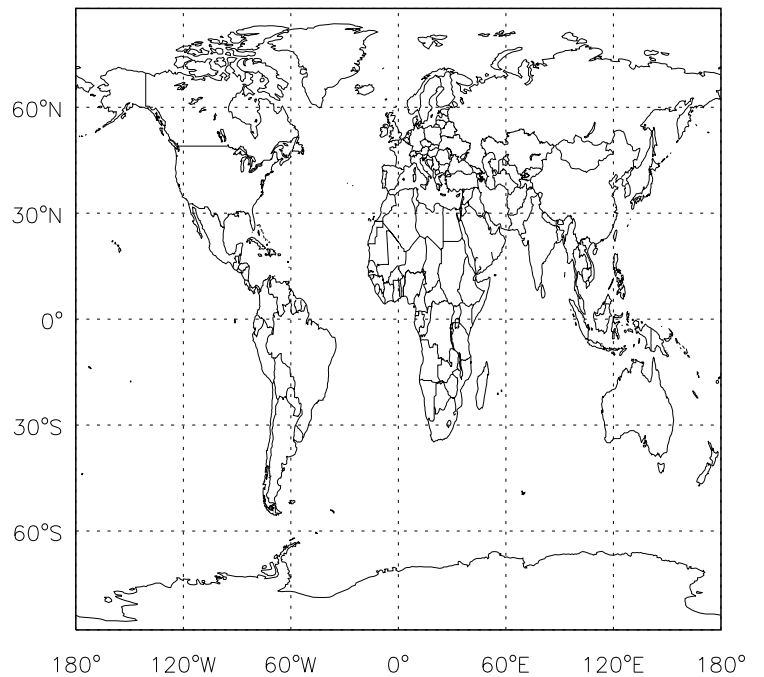
v11-01g-Run0 - v11-01d-Run1

OCPI - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

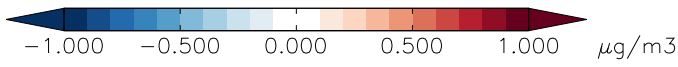
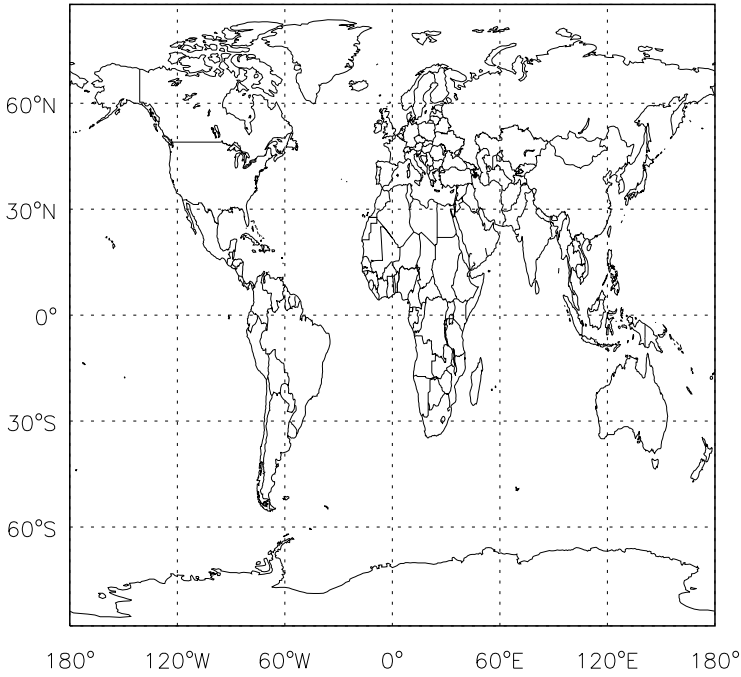
OCPI- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

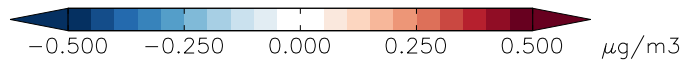
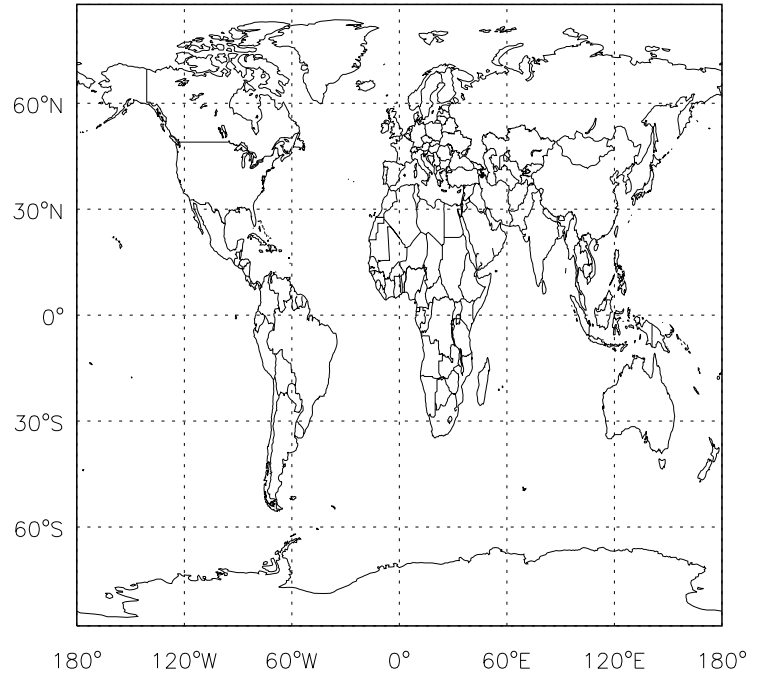
v11-01g-Run0 - v11-01f-geosfp-Run0

BCPO - Diff @ Surface for Jan



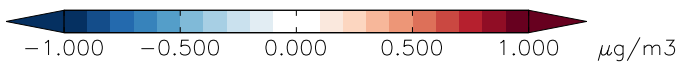
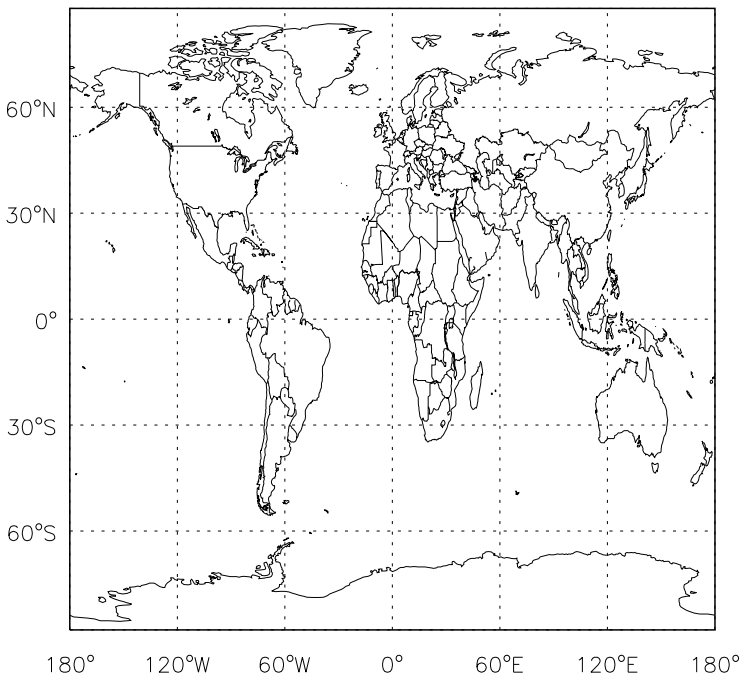
v11-01g-Run0 - v11-01f-geosfp-Run0

BCPO - Diff @ 500 hPa for Jan



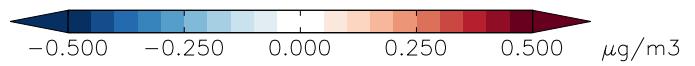
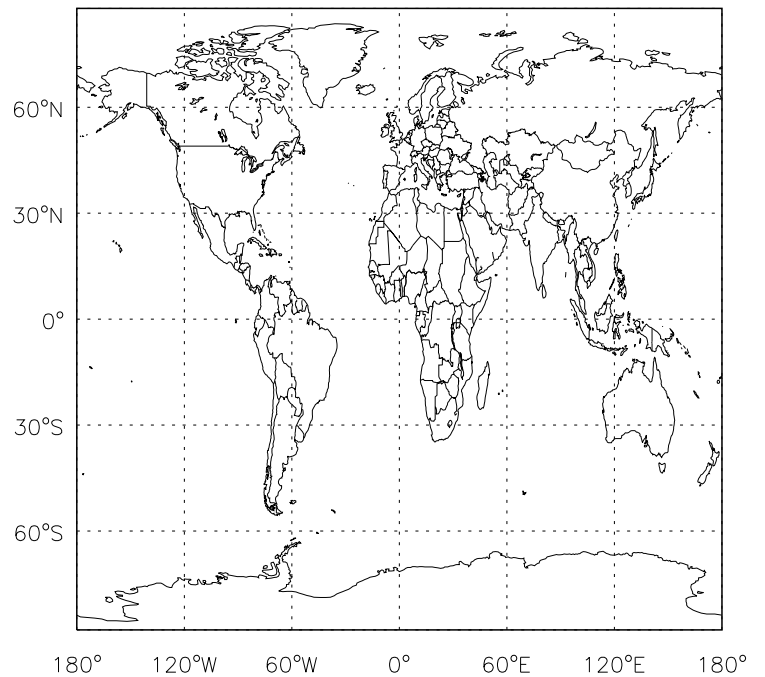
v11-01g-Run0 - v11-01d-Run1

BCPO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

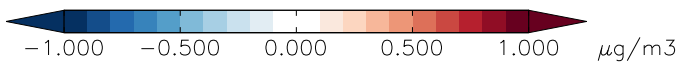
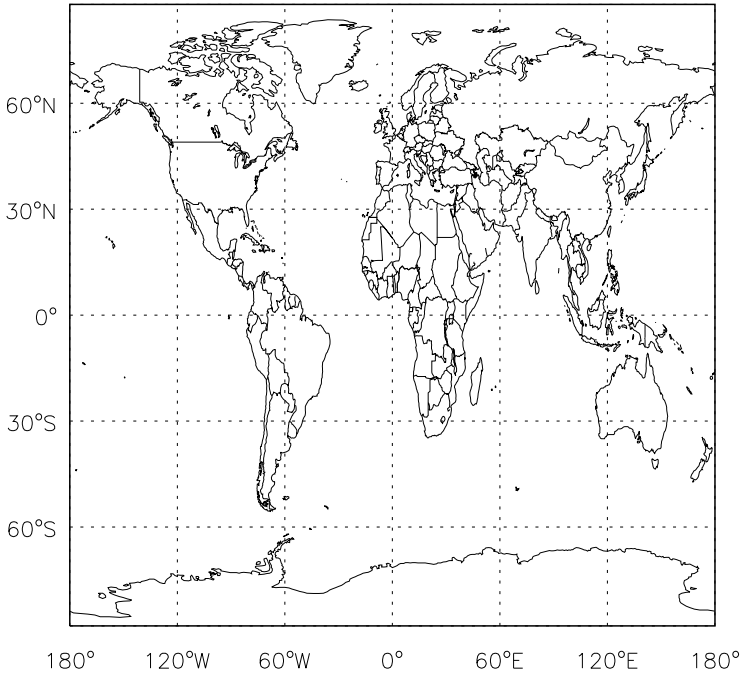
BCPO - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

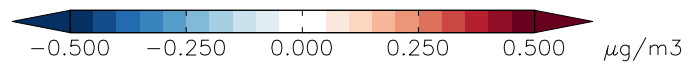
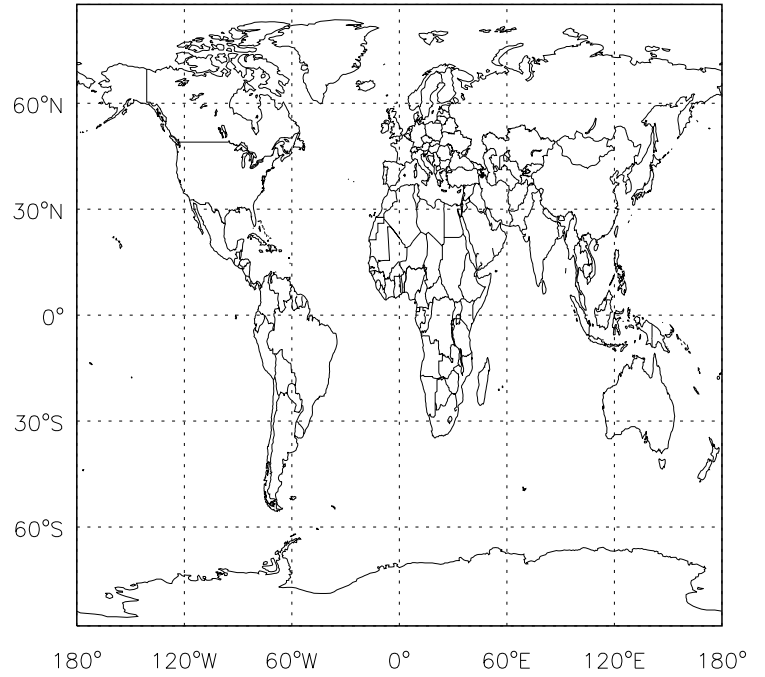
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPO - Diff @ Surface for Jan



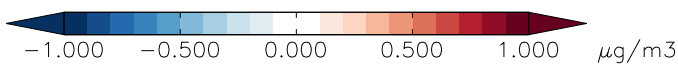
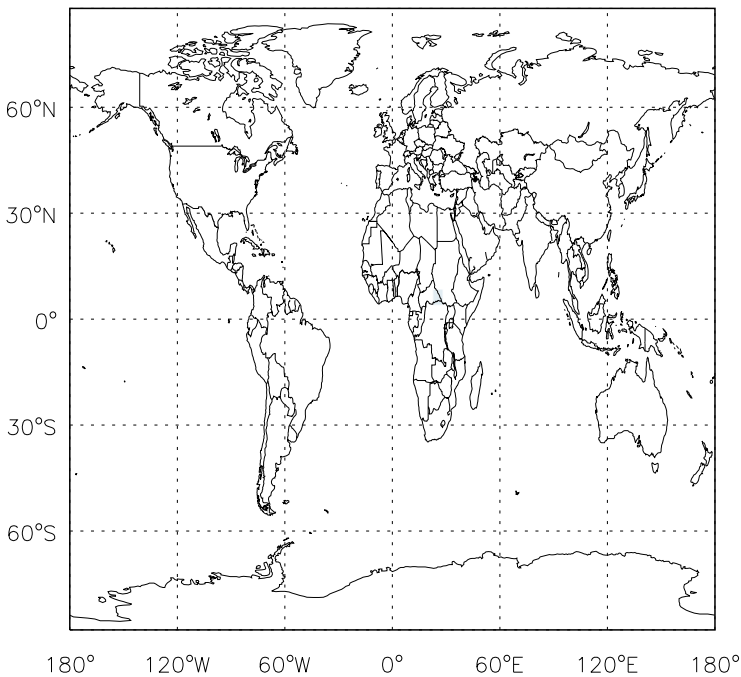
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPO - Diff @ 500 hPa for Jan



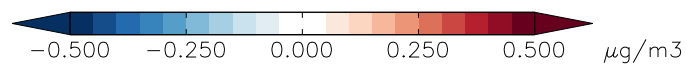
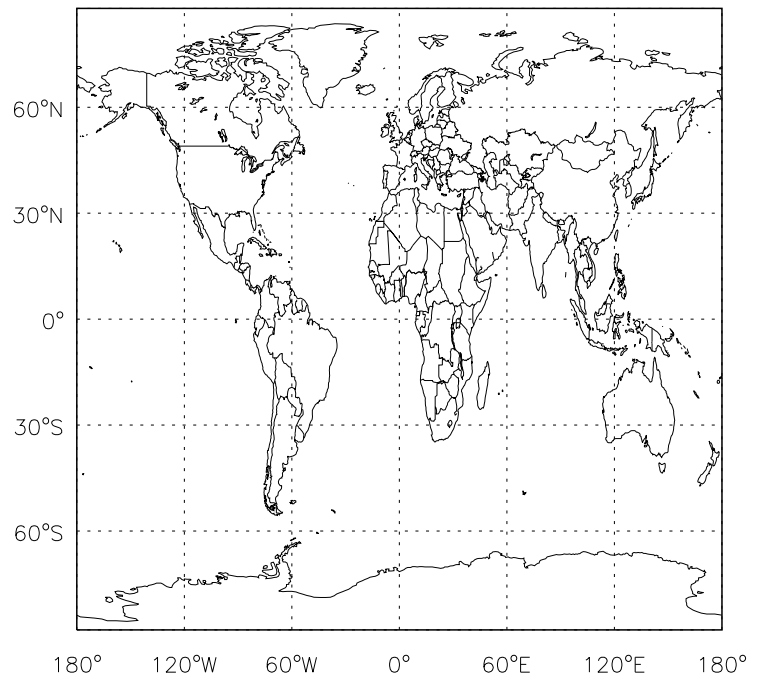
v11-01g-Run0 - v11-01d-Run1

OCPO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

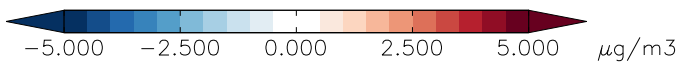
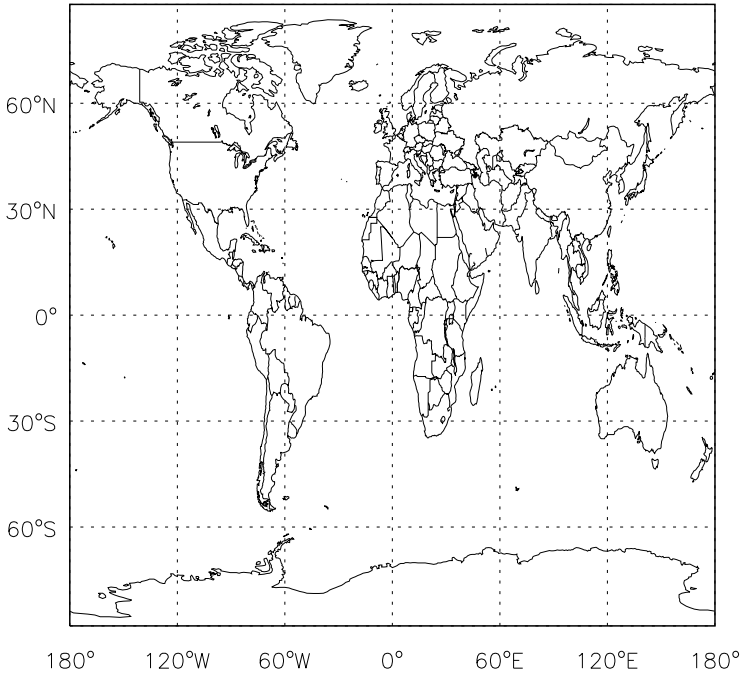
OCPO - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

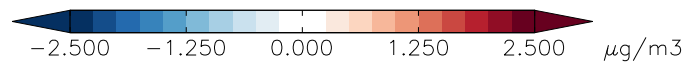
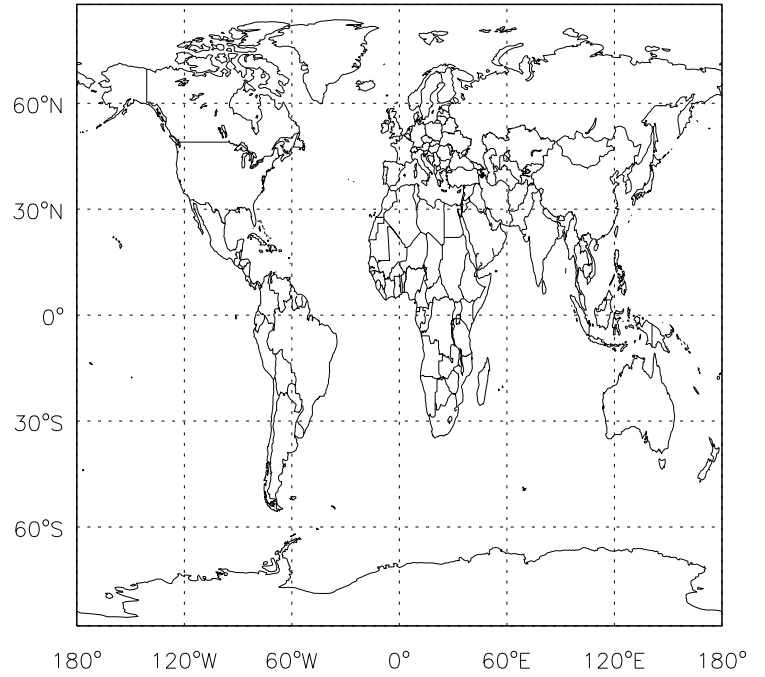
v11-01g-Run0 - v11-01f-geosfp-Run0

DST1 - Diff @ Surface for Jan



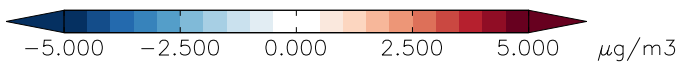
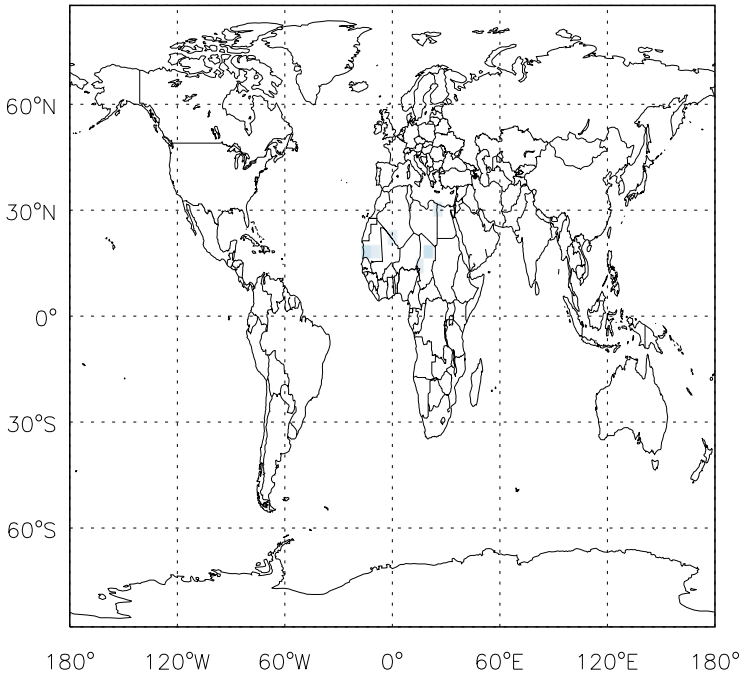
v11-01g-Run0 - v11-01f-geosfp-Run0

DST1 - Diff @ 500 hPa for Jan



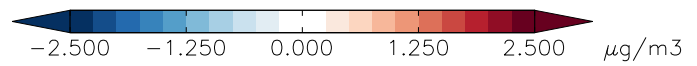
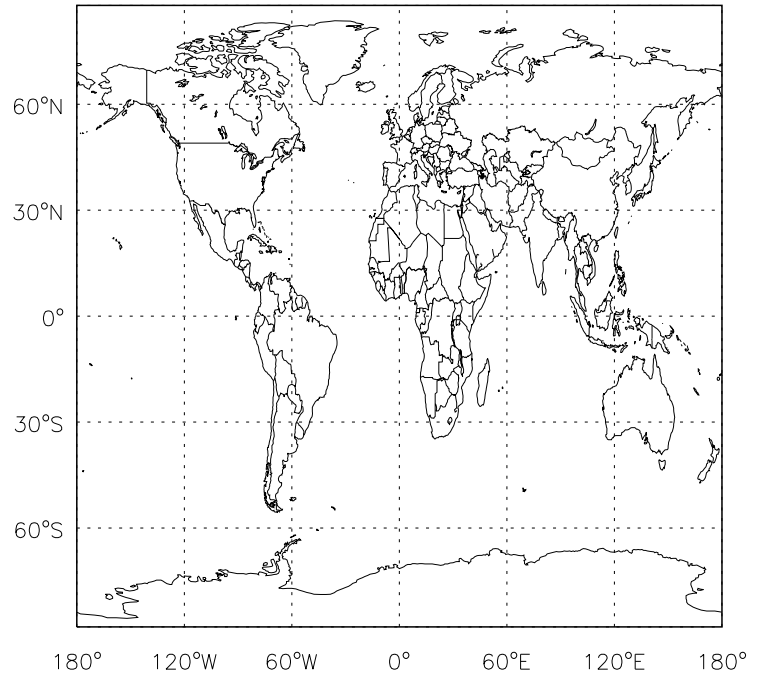
v11-01g-Run0 - v11-01d-Run1

DST1 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

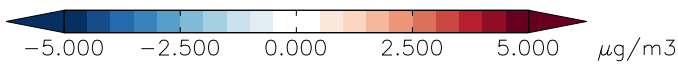
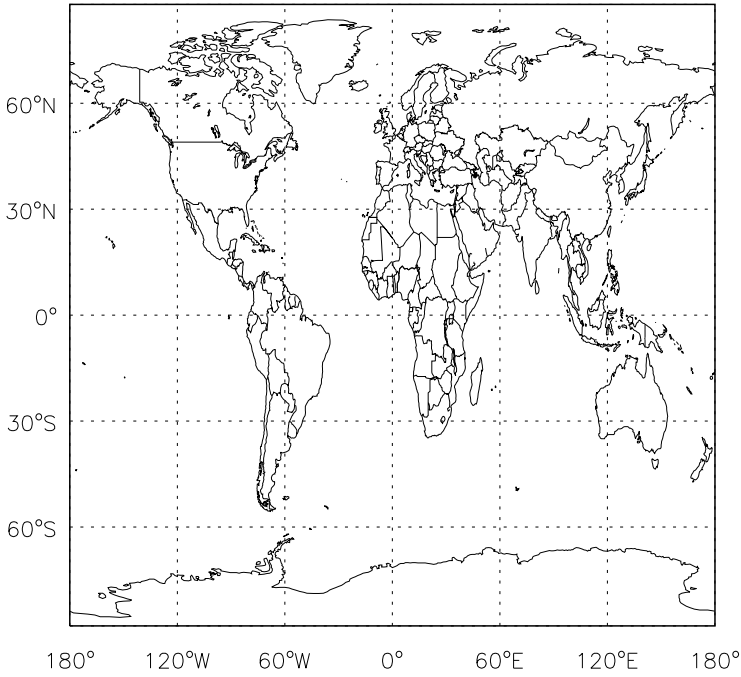
DST1 - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

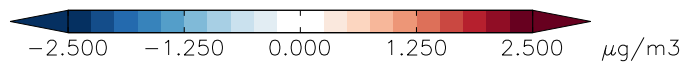
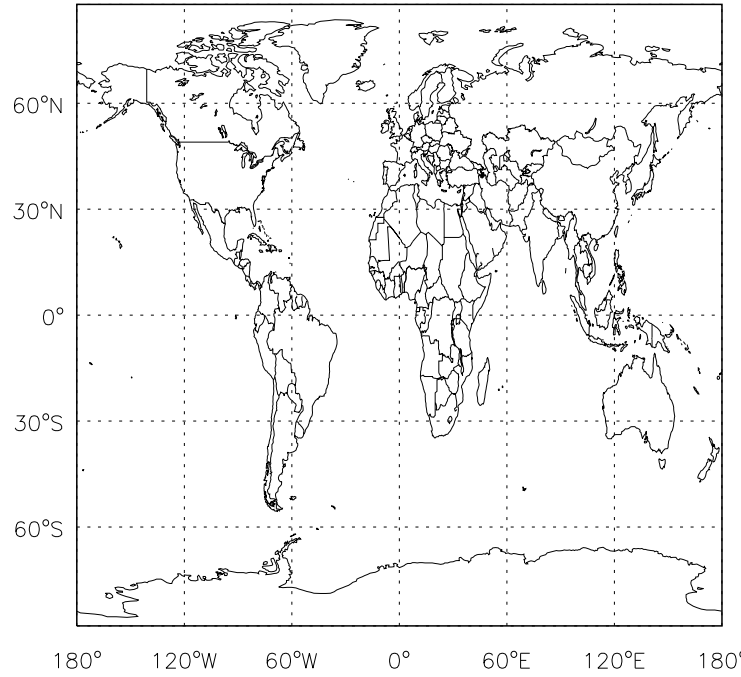
v11-01g-Run0 - v11-01f-geosfp-Run0

DST2 - Diff @ Surface for Jan



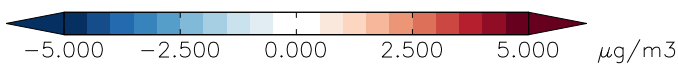
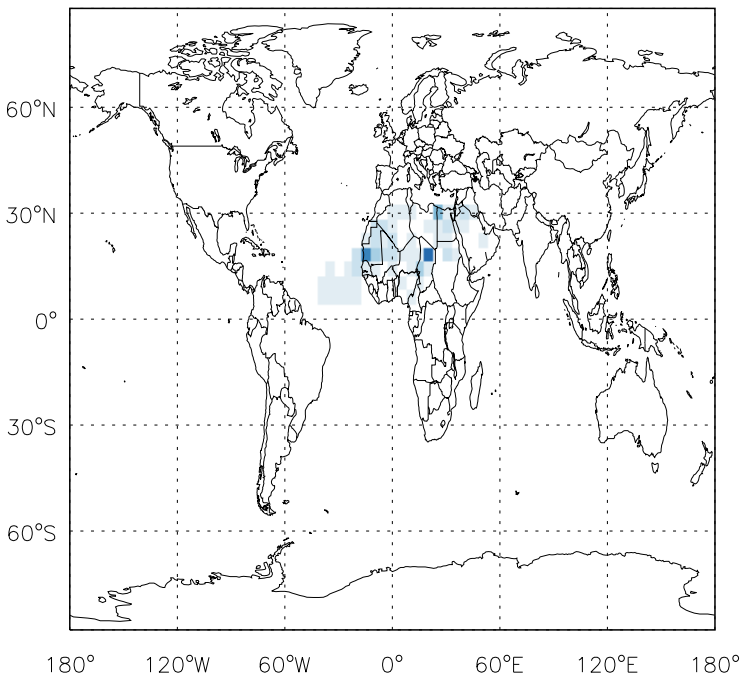
v11-01g-Run0 - v11-01f-geosfp-Run0

DST2- Diff @ 500 hPa for Jan



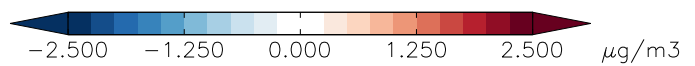
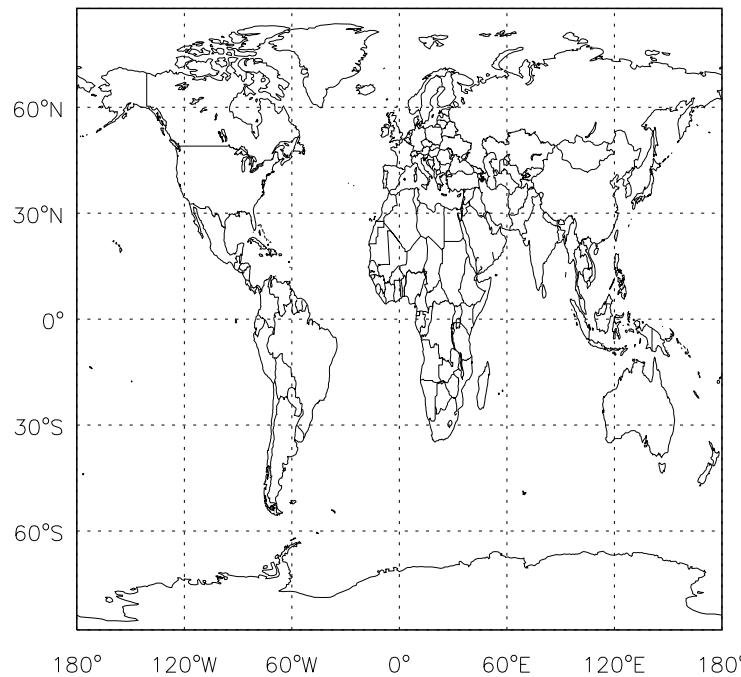
v11-01g-Run0 - v11-01d-Run1

DST2 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

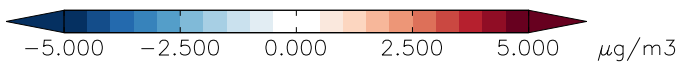
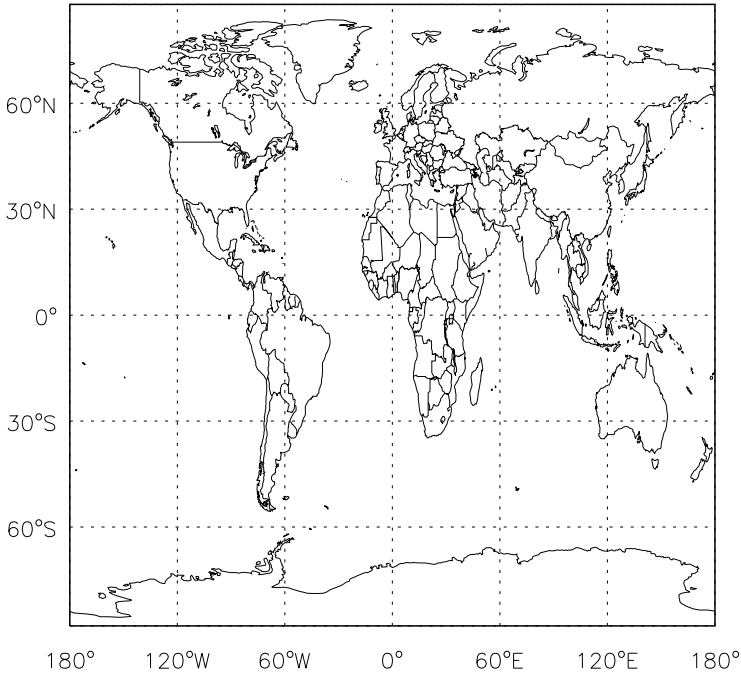
DST2- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

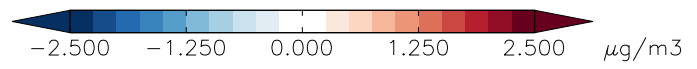
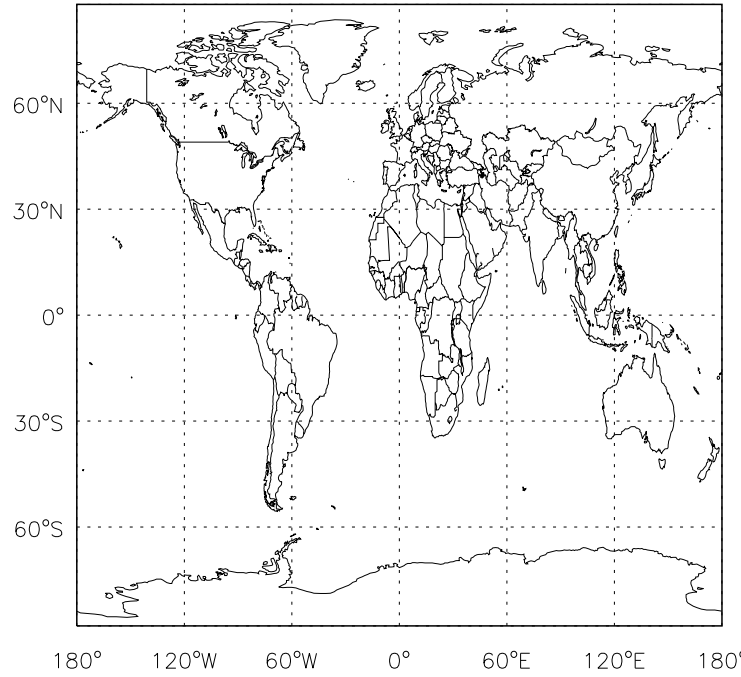
v11-01g-Run0 - v11-01f-geosfp-Run0

DST3 - Diff @ Surface for Jan



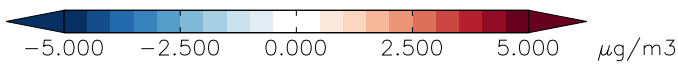
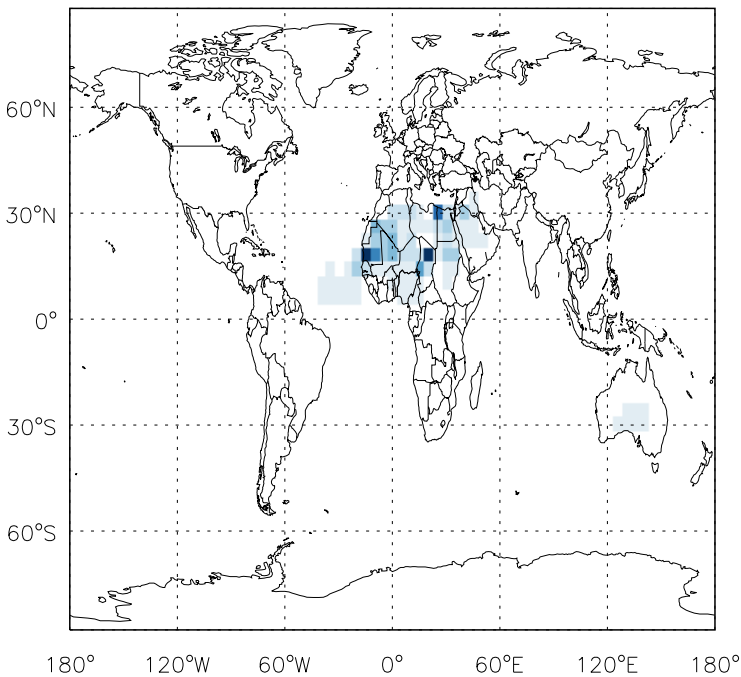
v11-01g-Run0 - v11-01f-geosfp-Run0

DST3- Diff @ 500 hPa for Jan



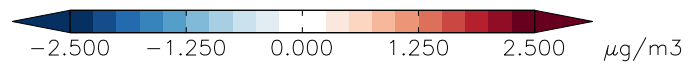
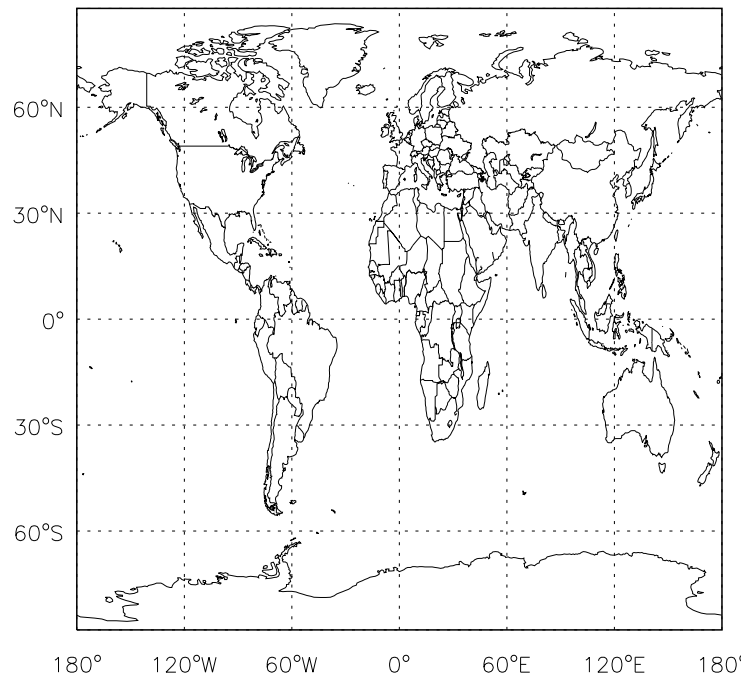
v11-01g-Run0 - v11-01d-Run1

DST3 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

DST3- Diff @ 500 hPa for Jan

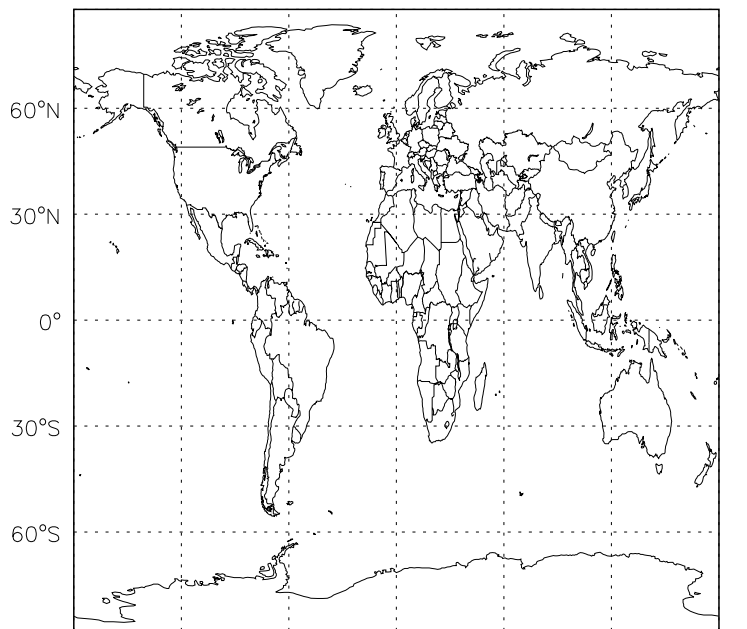




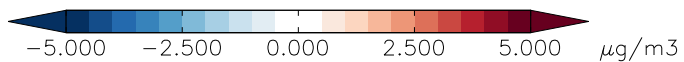
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

DST4 - Diff @ Surface for Jan

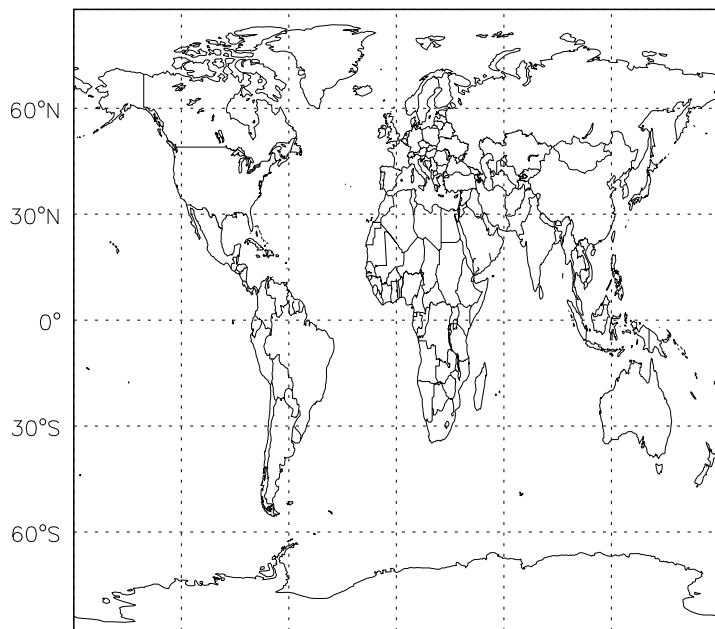


180° 120°W 60°W 0° 60°E 120°E 180°

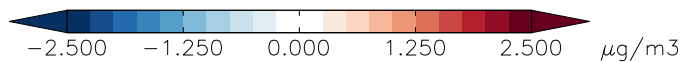


v11-01g-Run0 - v11-01f-geosfp-Run0

DST4 - Diff @ 500 hPa for Jan

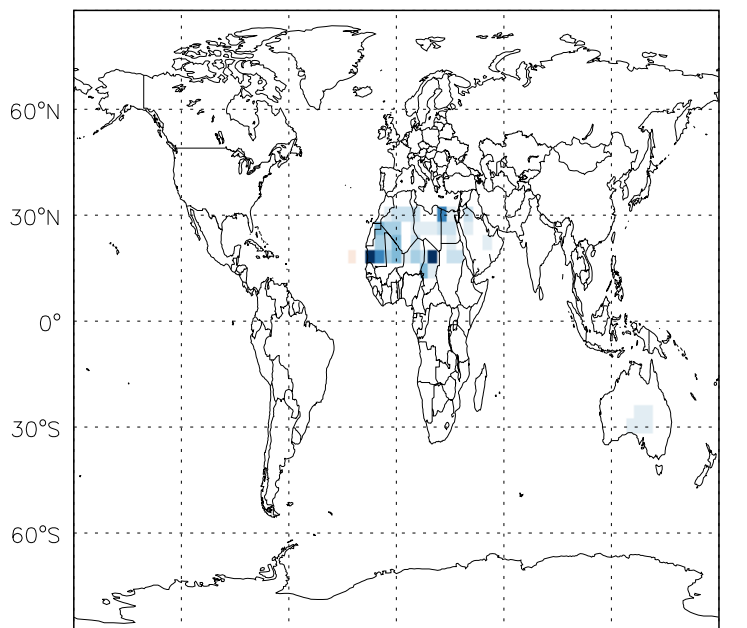


180° 120°W 60°W 0° 60°E 120°E 180°

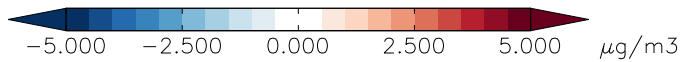


v11-01g-Run0 - v11-01d-Run1

DST4 - Diff @ Surface for Jan

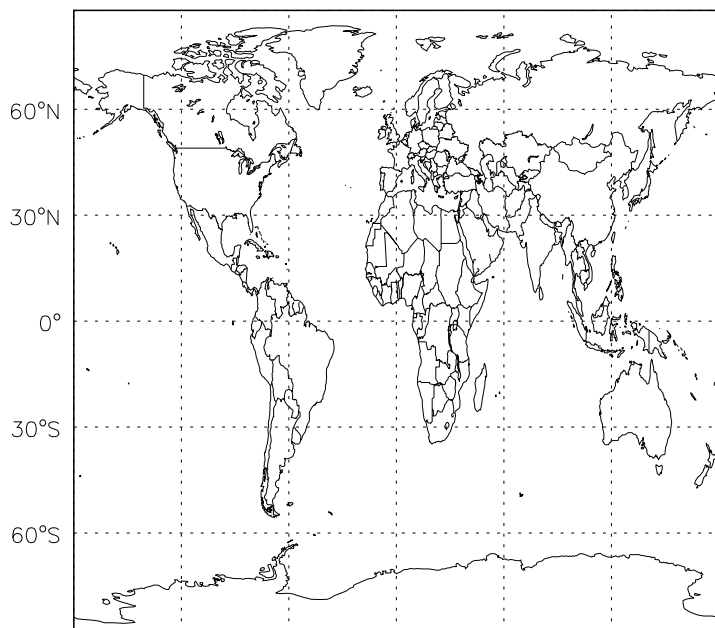


180° 120°W 60°W 0° 60°E 120°E 180°

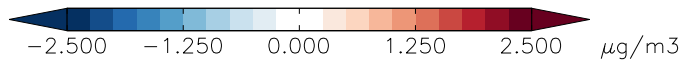


v11-01g-Run0 - v11-01d-Run1

DST4 - Diff @ 500 hPa for Jan



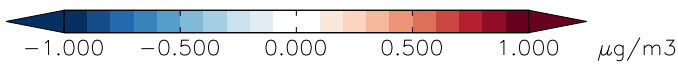
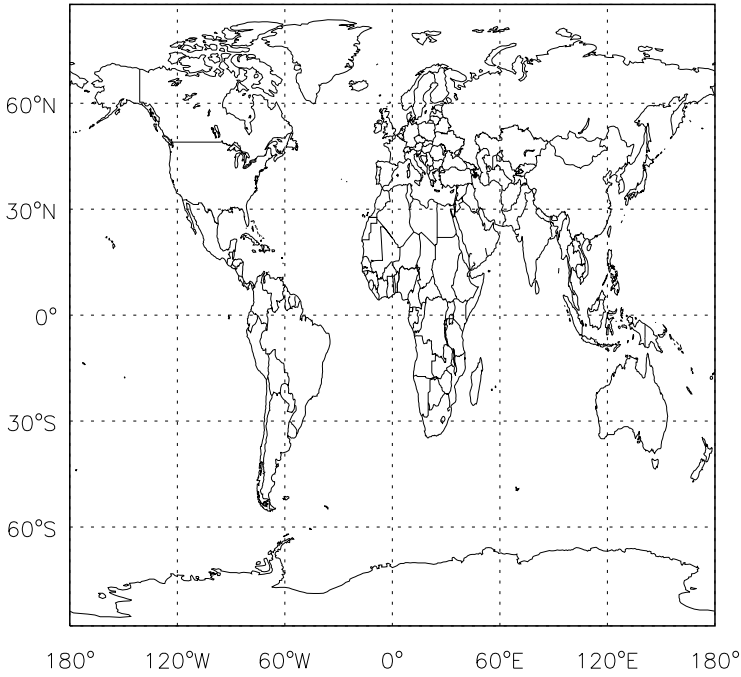
180° 120°W 60°W 0° 60°E 120°E 180°



GEOS-Chem Difference Maps at surface and 500 hPa

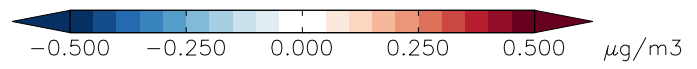
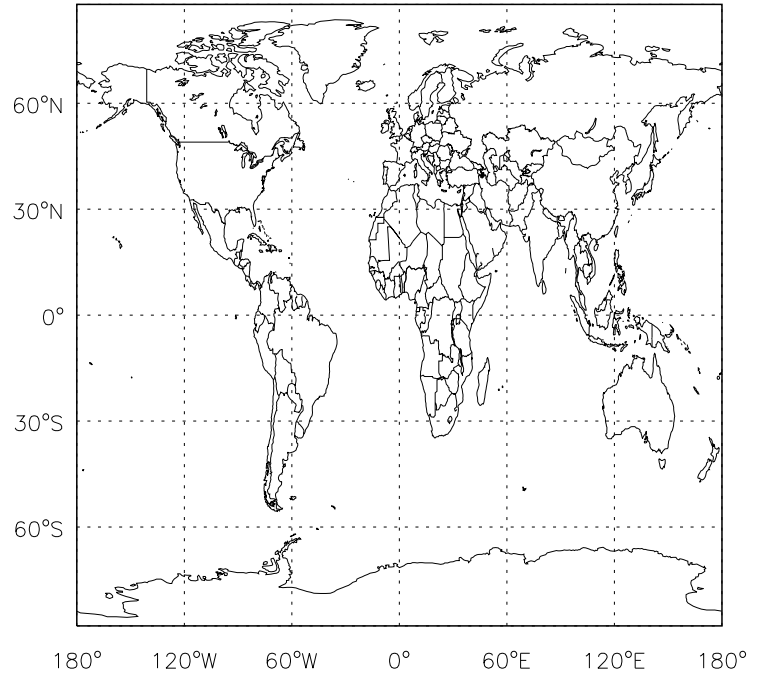
v11-01g-Run0 - v11-01f-geosfp-Run0

SALA - Diff @ Surface for Jan



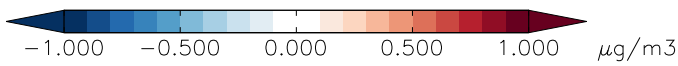
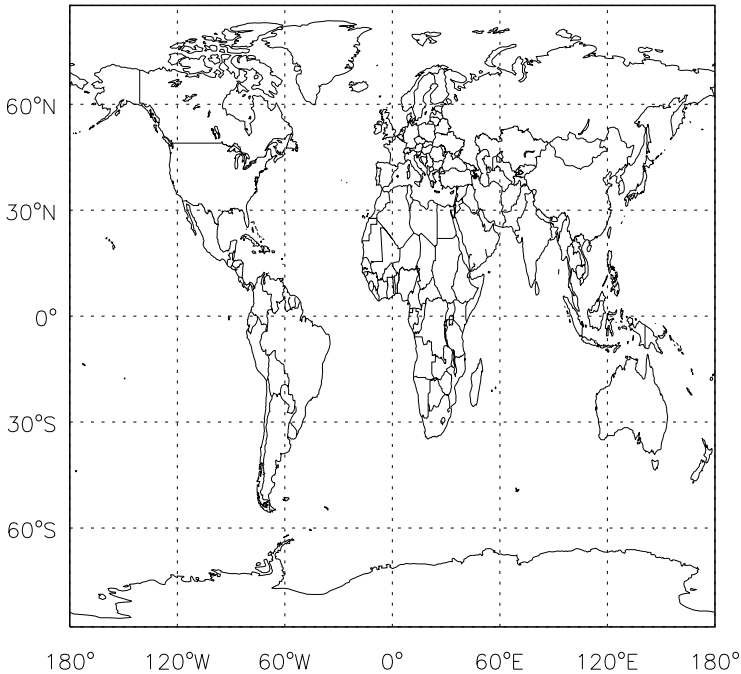
v11-01g-Run0 - v11-01f-geosfp-Run0

SALA - Diff @ 500 hPa for Jan



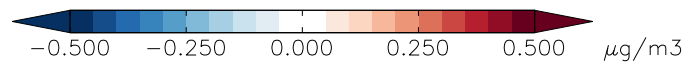
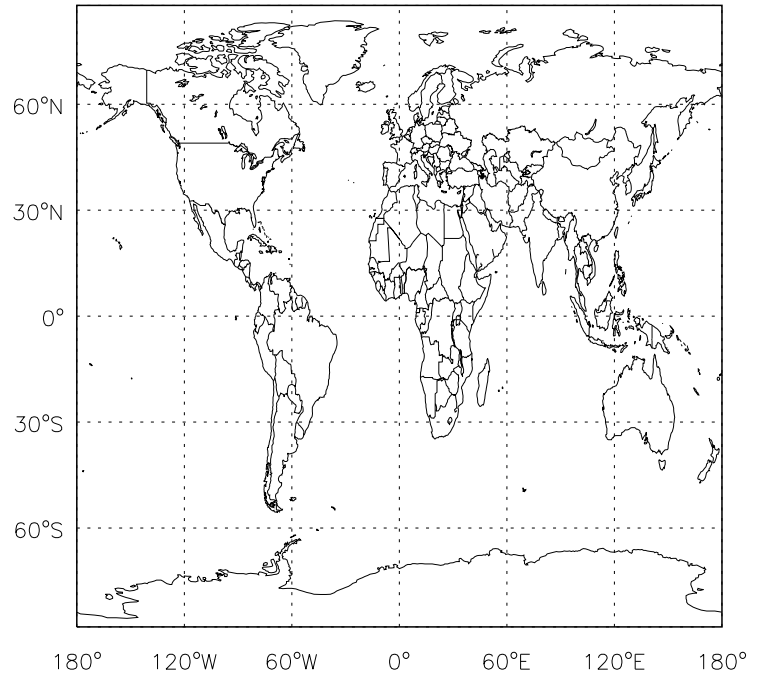
v11-01g-Run0 - v11-01d-Run1

SALA - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

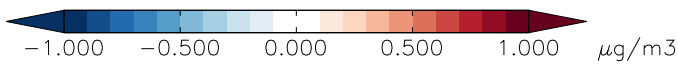
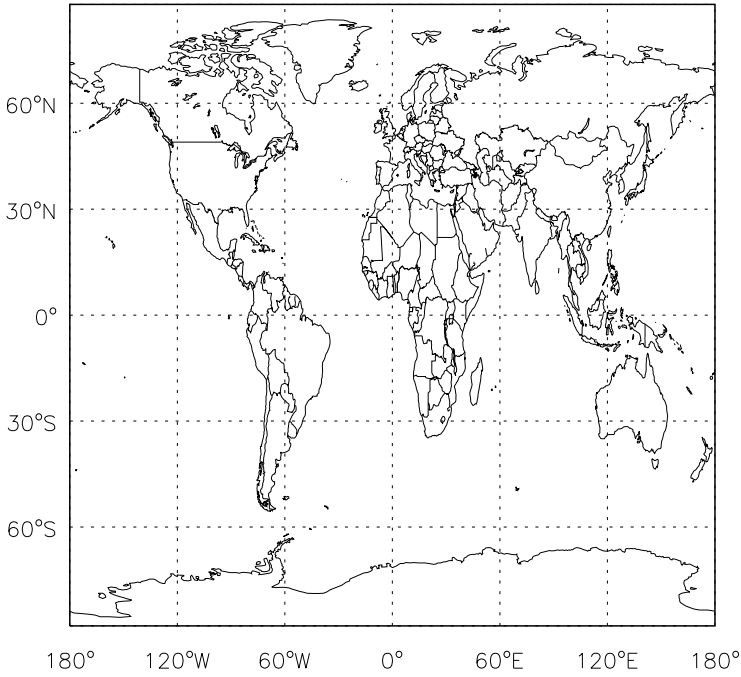
SALA - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

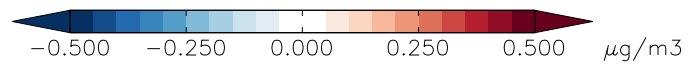
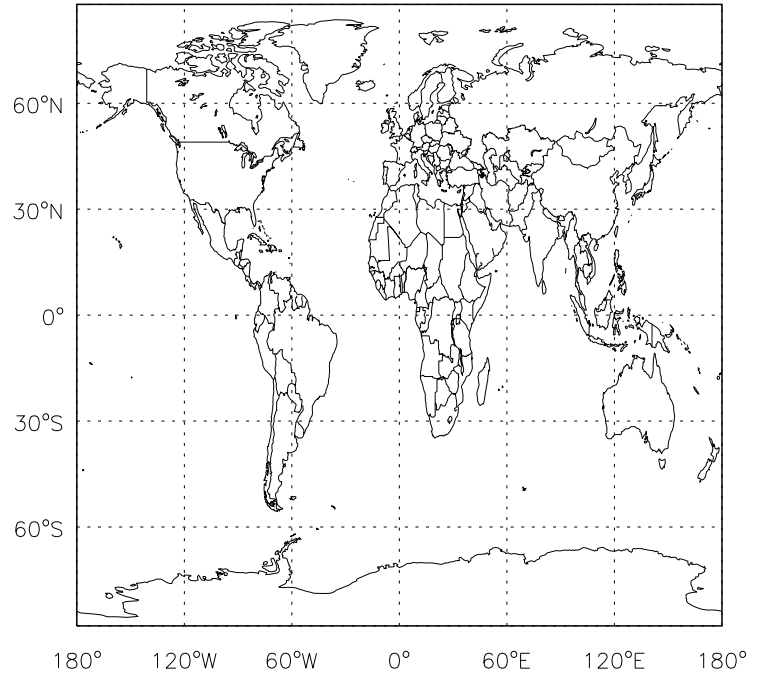
v11-01g-Run0 - v11-01f-geosfp-Run0

SALC - Diff @ Surface for Jan



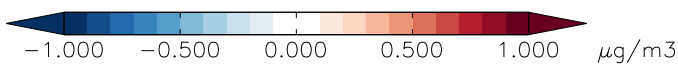
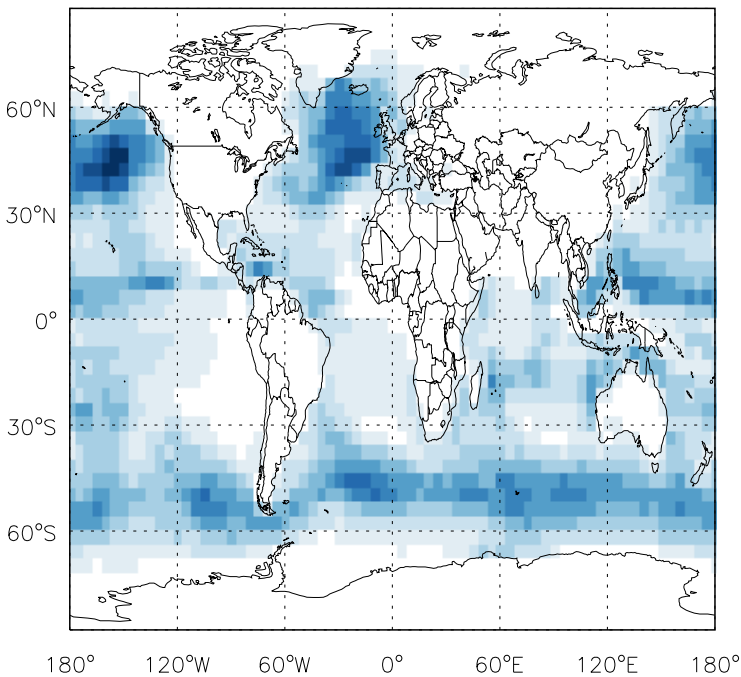
v11-01g-Run0 - v11-01f-geosfp-Run0

SALC - Diff @ 500 hPa for Jan



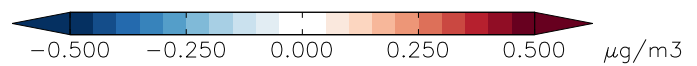
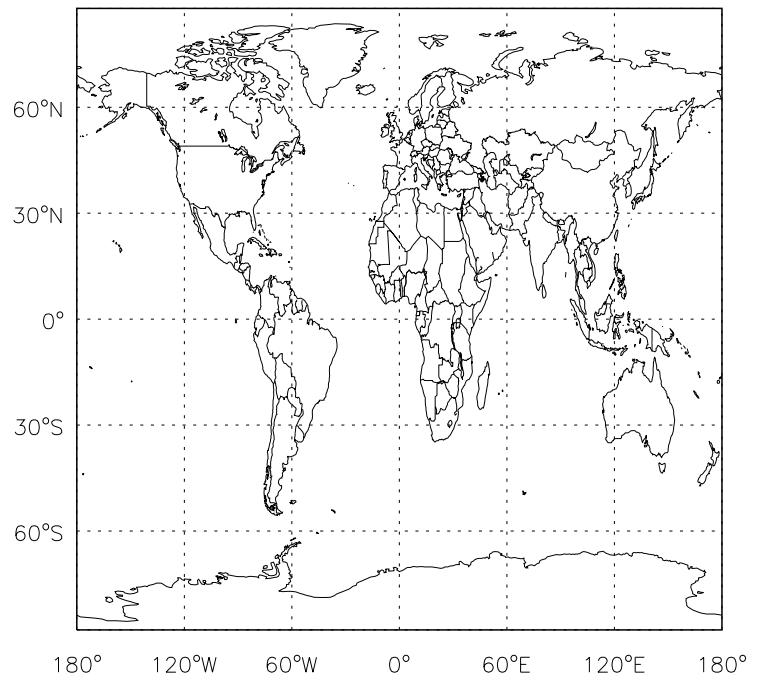
v11-01g-Run0 - v11-01d-Run1

SALC - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

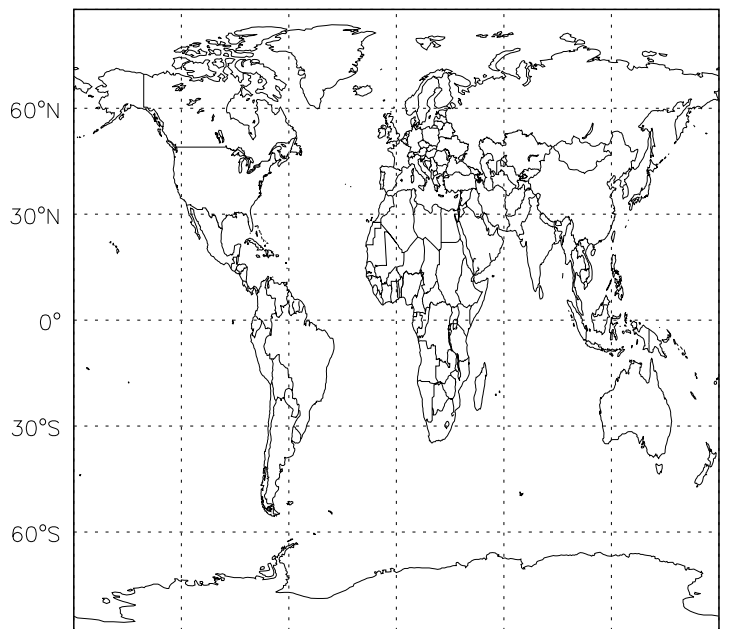
SALC - Diff @ 500 hPa for Jan



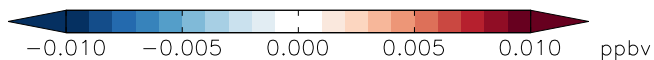
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

Br2 - Diff @ Surface for Jan

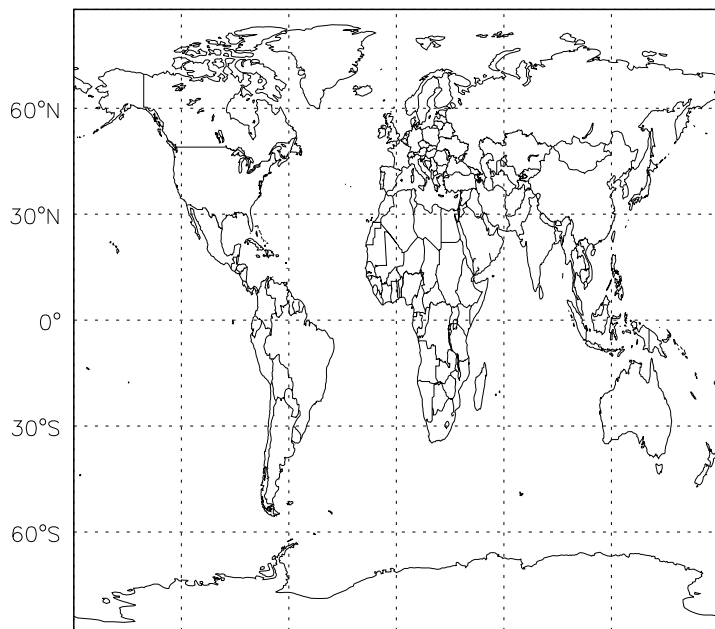


180° 120°W 60°W 0° 60°E 120°E 180°

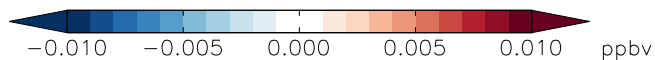


v11-01g-Run0 - v11-01f-geosfp-Run0

Br2- Diff @ 500 hPa for Jan

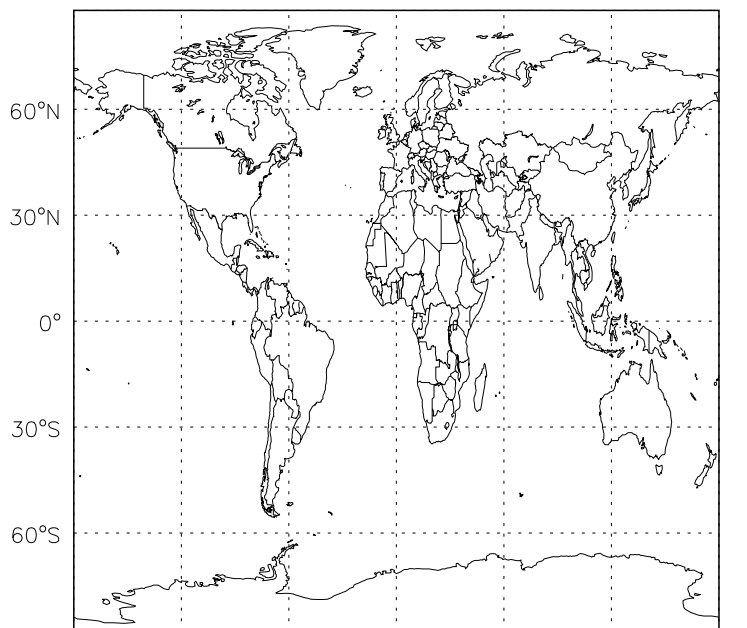


180° 120°W 60°W 0° 60°E 120°E 180°

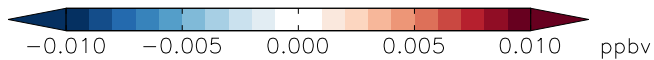


v11-01g-Run0 - v11-01d-Run1

Br2 - Diff @ Surface for Jan

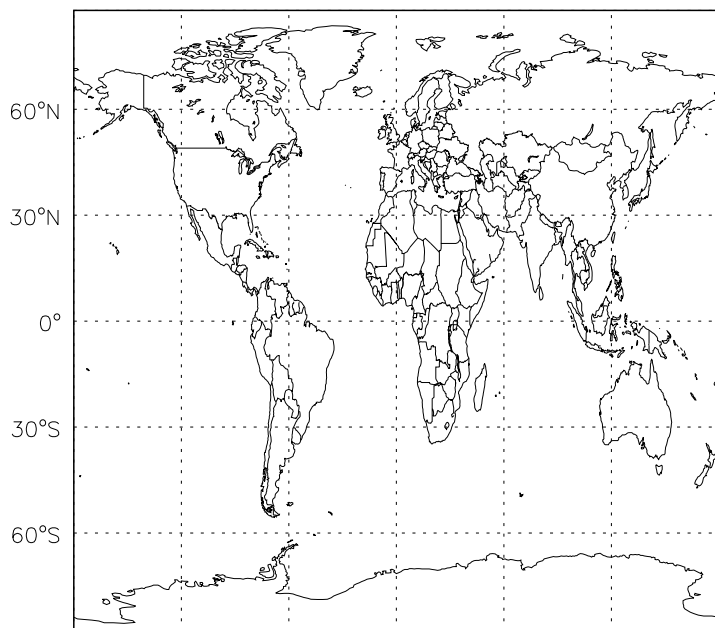


180° 120°W 60°W 0° 60°E 120°E 180°

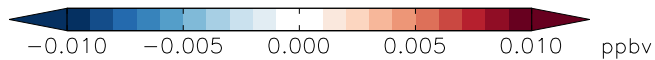


v11-01g-Run0 - v11-01d-Run1

Br2- Diff @ 500 hPa for Jan



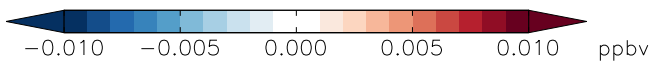
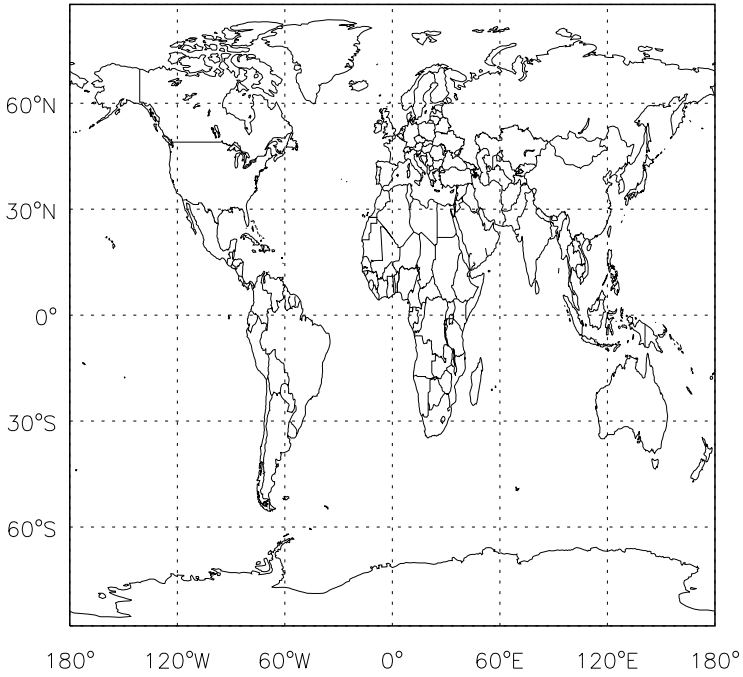
180° 120°W 60°W 0° 60°E 120°E 180°



GEOS-Chem Difference Maps at surface and 500 hPa

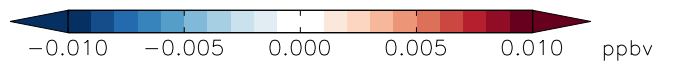
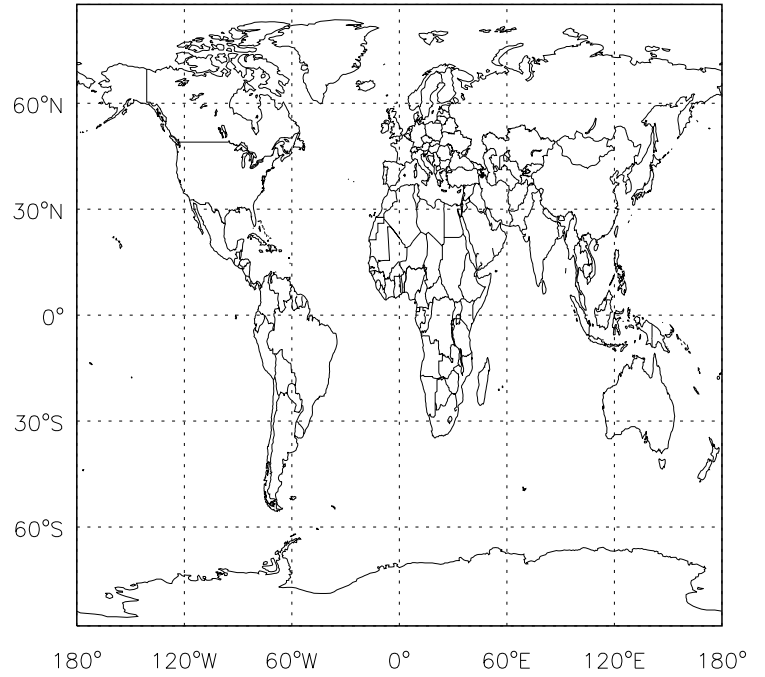
v11-01g-Run0 - v11-01f-geosfp-Run0

Br - Diff @ Surface for Jan



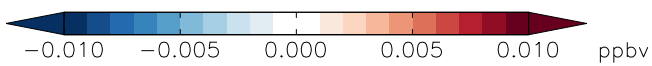
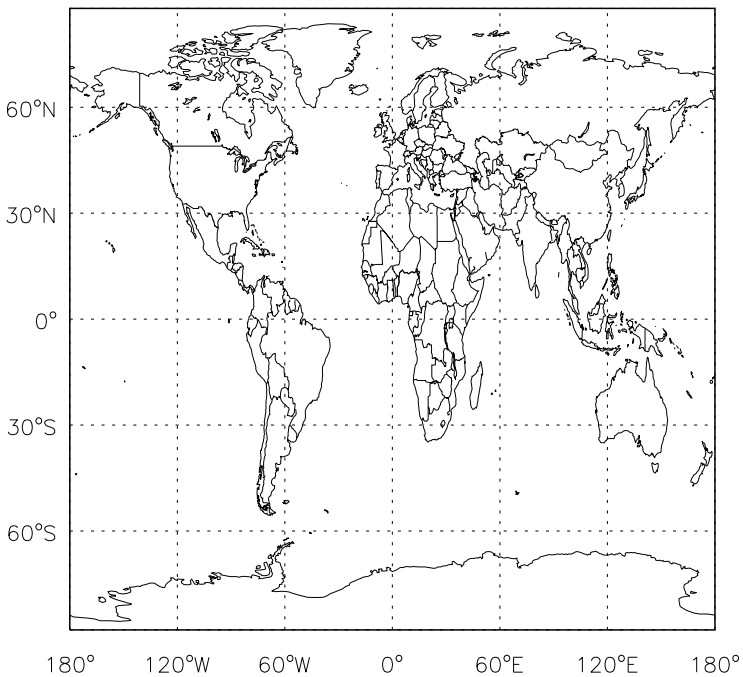
v11-01g-Run0 - v11-01f-geosfp-Run0

Br- Diff @ 500 hPa for Jan



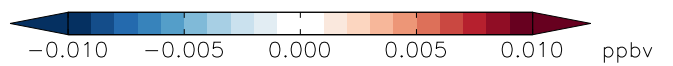
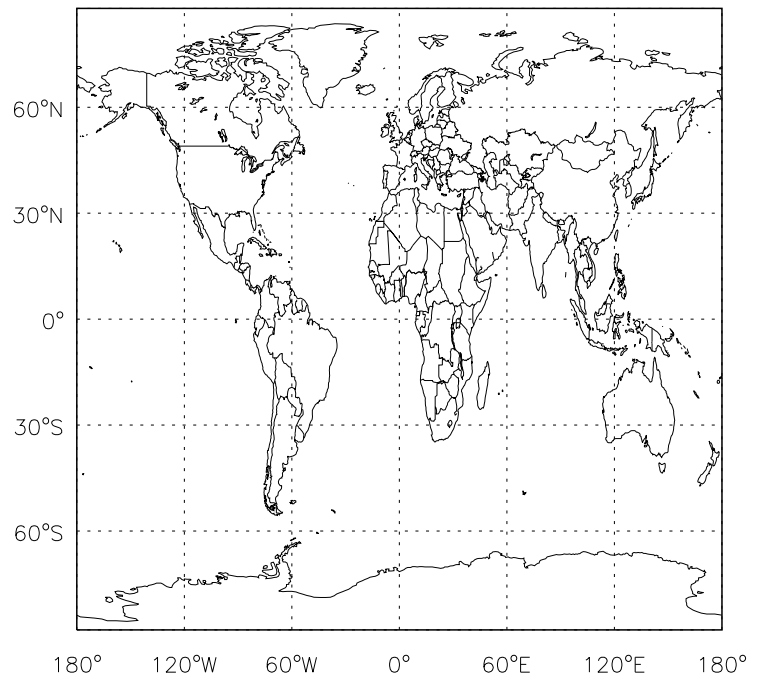
v11-01g-Run0 - v11-01d-Run1

Br - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

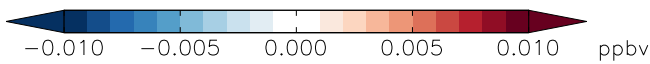
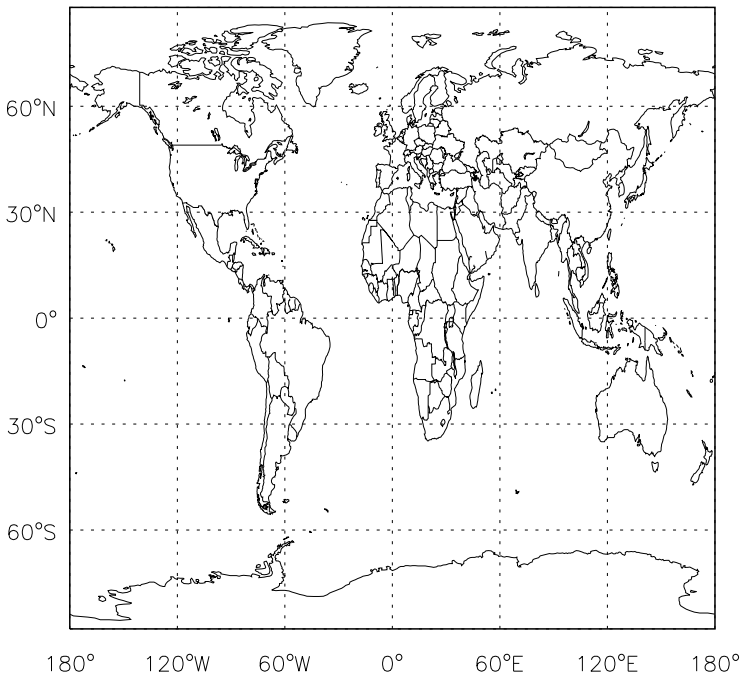
Br- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

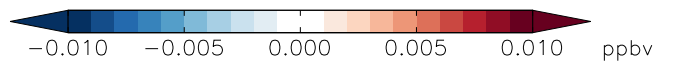
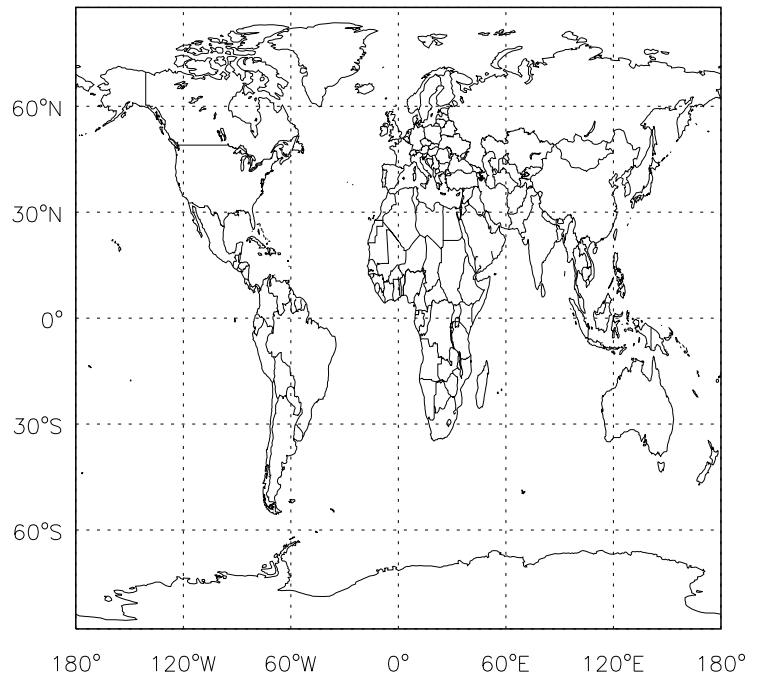
v11-01g-Run0 - v11-01f-geosfp-Run0

BrO - Diff @ Surface for Jan



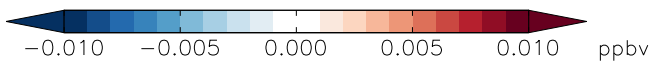
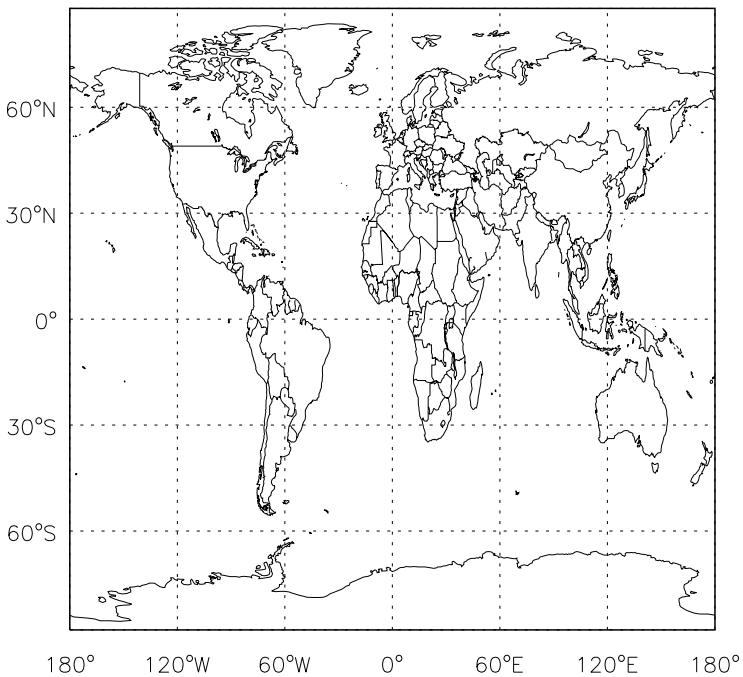
v11-01g-Run0 - v11-01f-geosfp-Run0

BrO - Diff @ 500 hPa for Jan



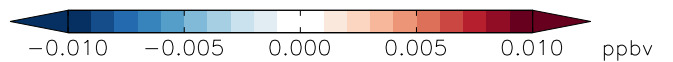
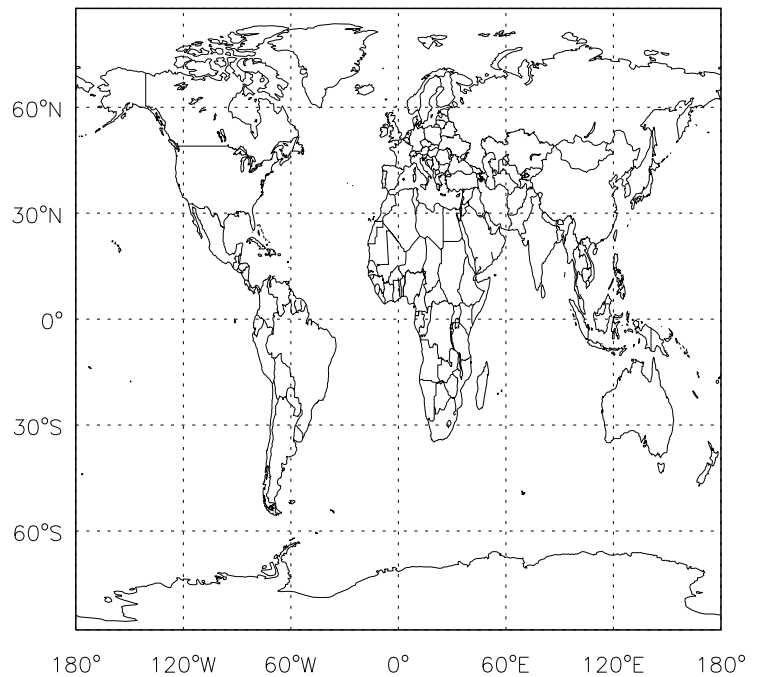
v11-01g-Run0 - v11-01d-Run1

BrO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

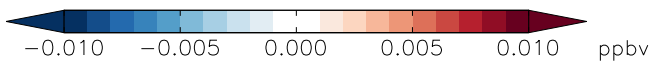
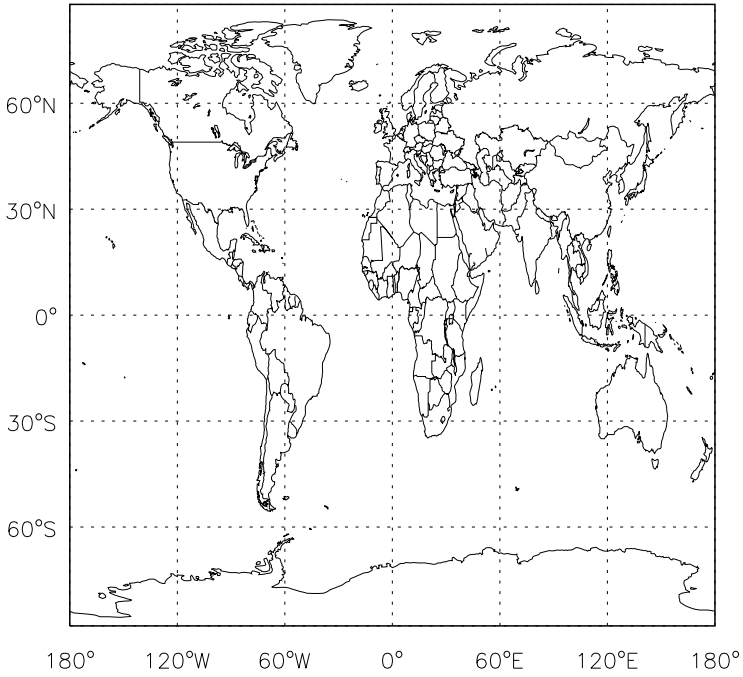
BrO - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

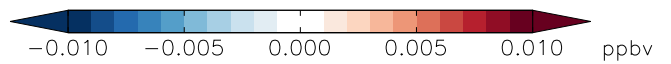
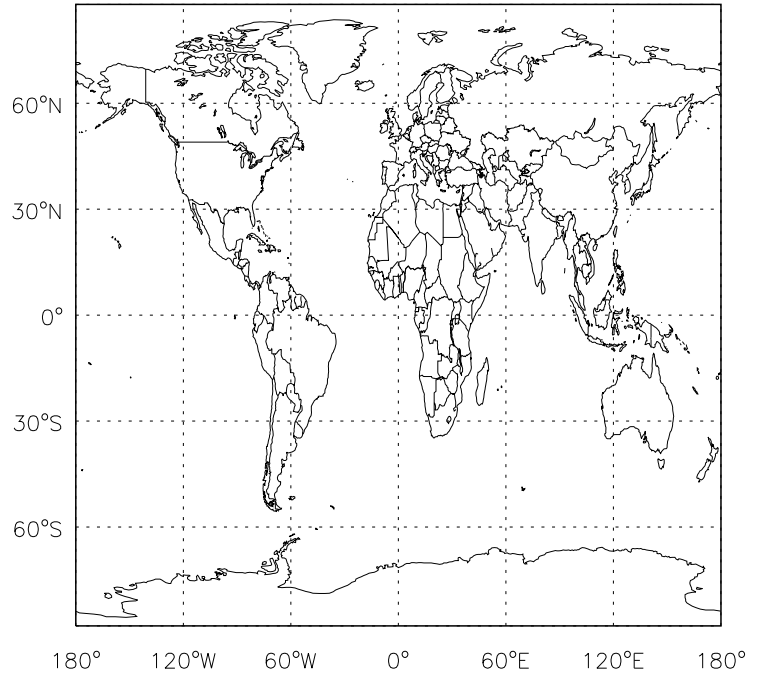
v11-01g-Run0 - v11-01f-geosfp-Run0

HOBr - Diff @ Surface for Jan



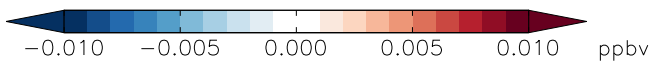
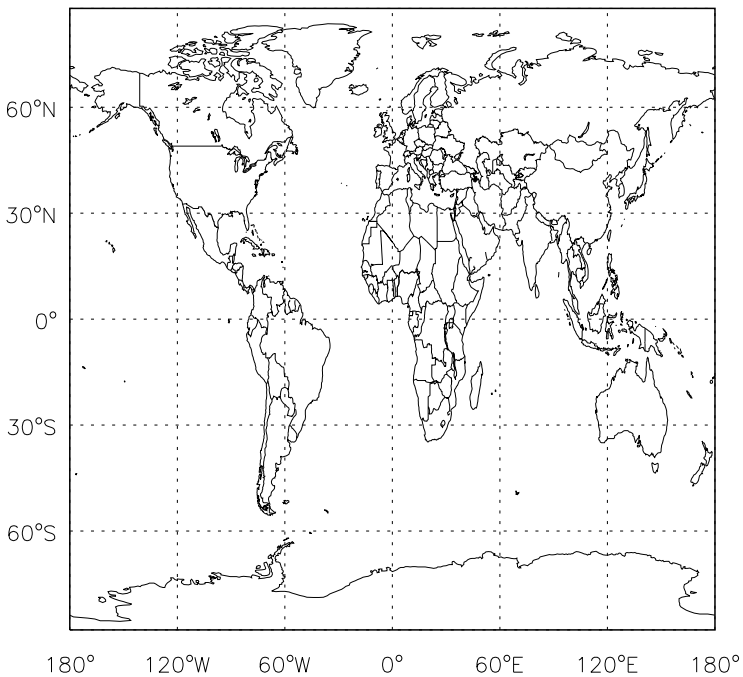
v11-01g-Run0 - v11-01f-geosfp-Run0

HOBr - Diff @ 500 hPa for Jan



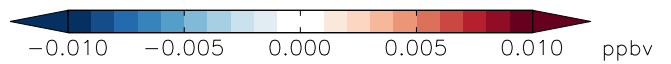
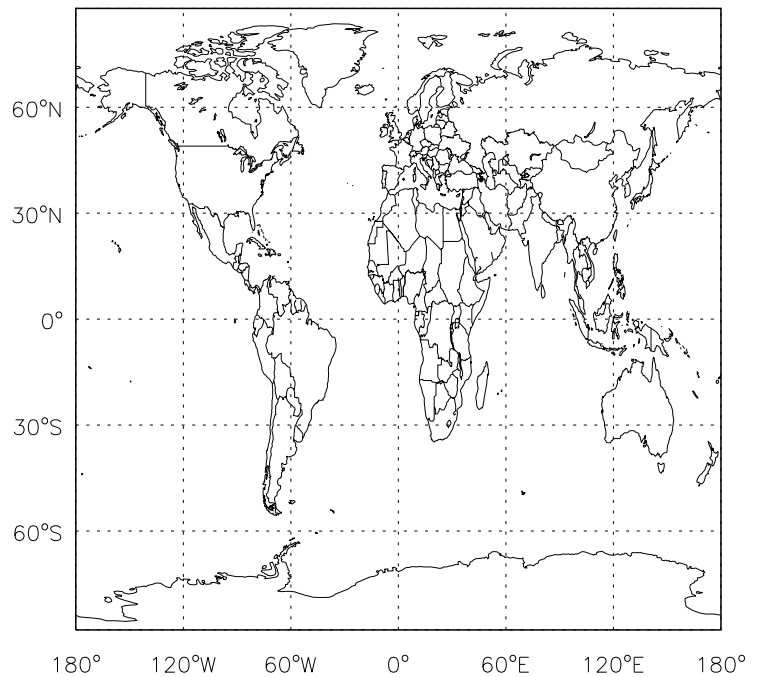
v11-01g-Run0 - v11-01d-Run1

HOBr - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

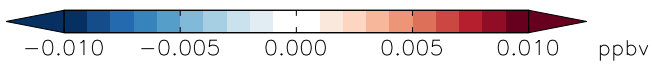
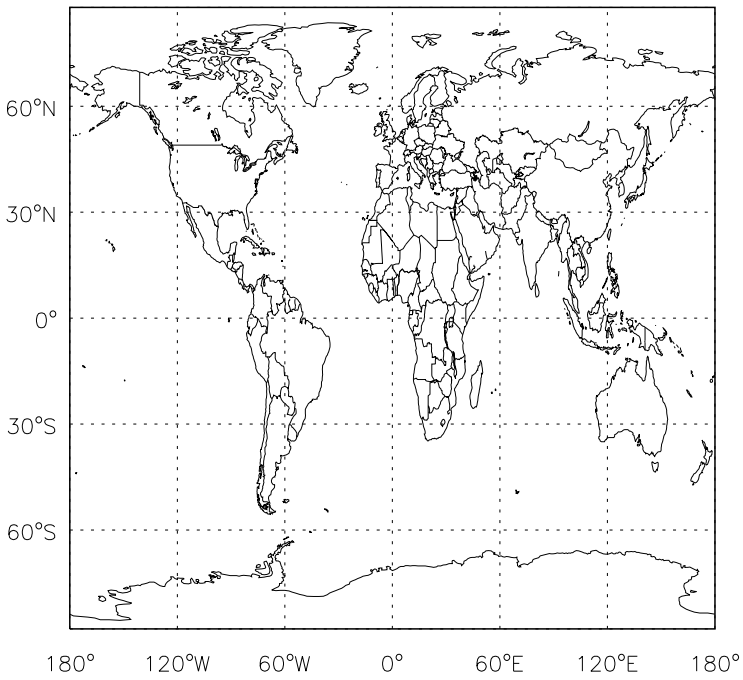
HOBr - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

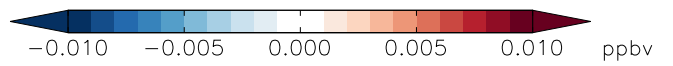
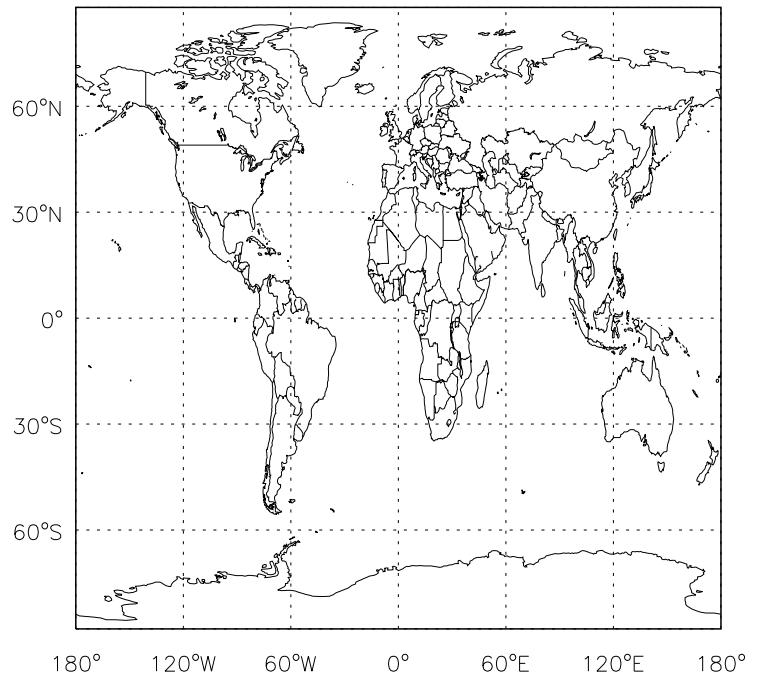
v11-01g-Run0 - v11-01f-geosfp-Run0

HBr - Diff @ Surface for Jan



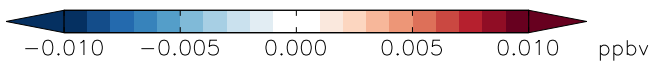
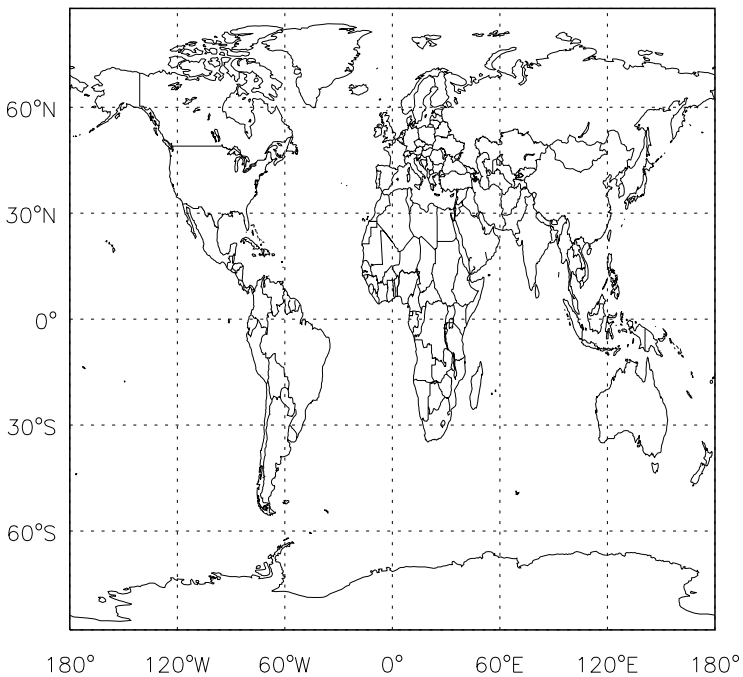
v11-01g-Run0 - v11-01f-geosfp-Run0

HBr - Diff @ 500 hPa for Jan



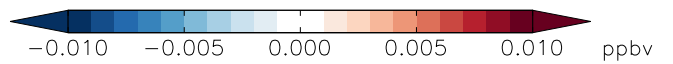
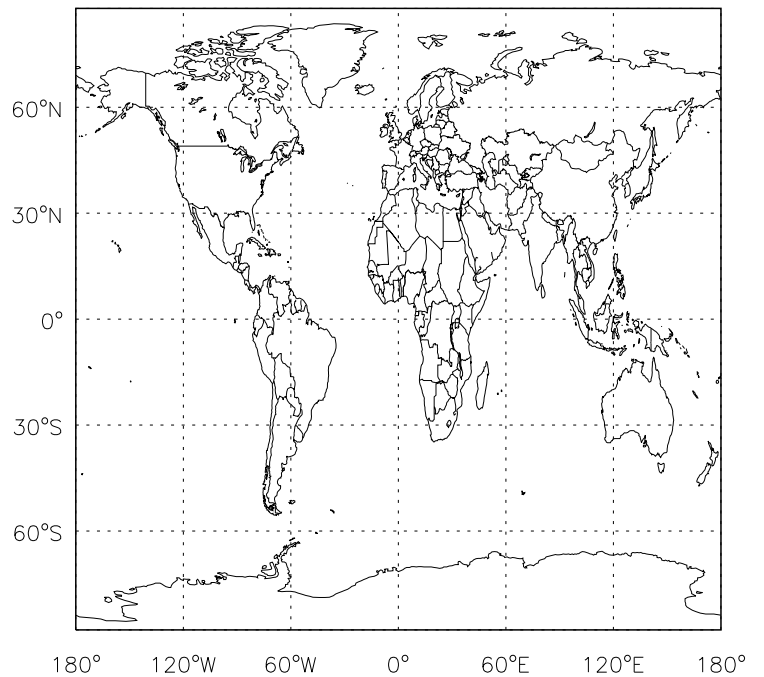
v11-01g-Run0 - v11-01d-Run1

HBr - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

HBr - Diff @ 500 hPa for Jan

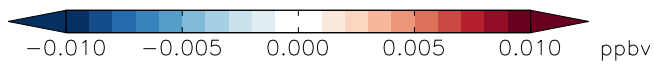
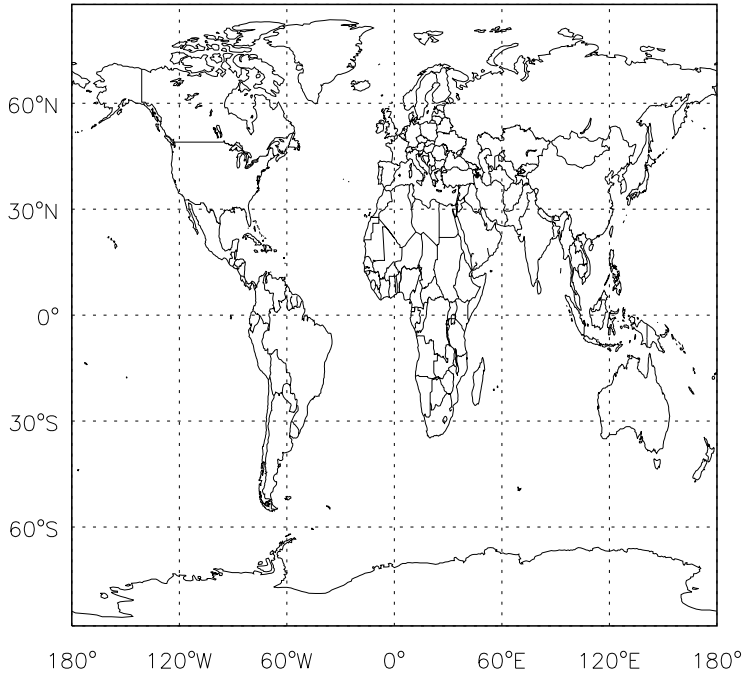




GEOS-Chem Difference Maps at surface and 500 hPa

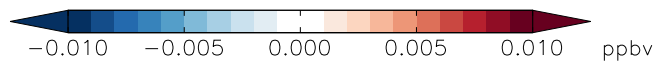
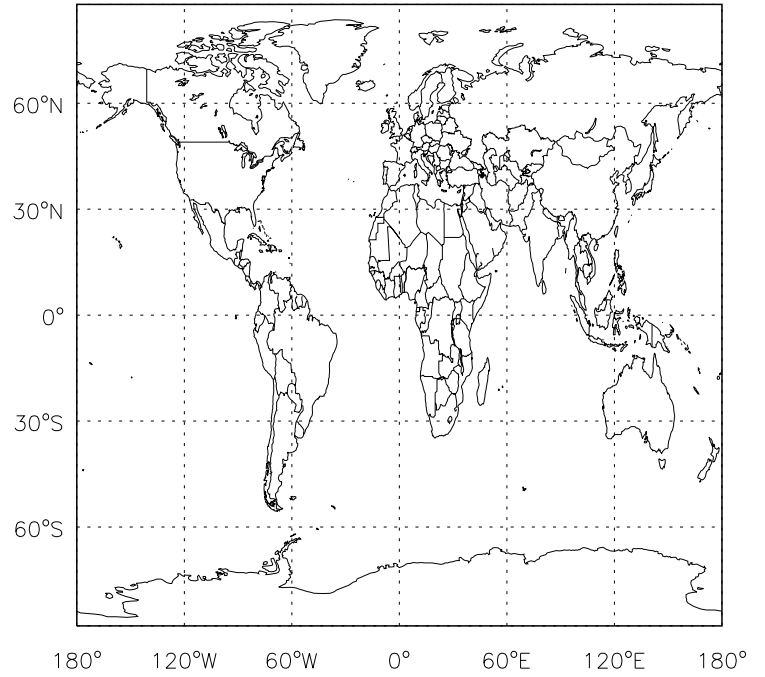
v11-01g-Run0 - v11-01f-geosfp-Run0

BrNO2 - Diff @ Surface for Jan



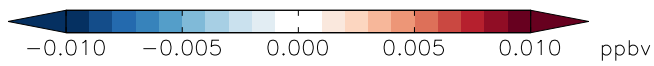
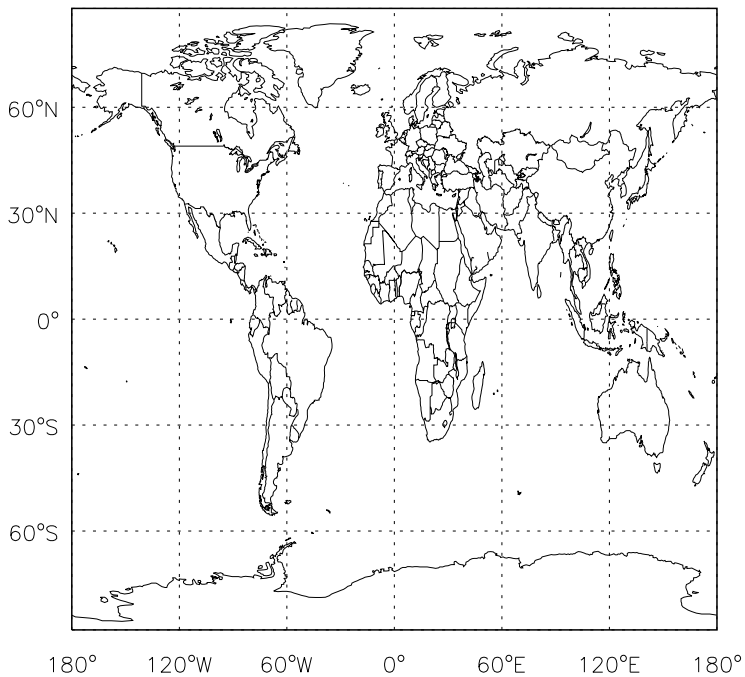
v11-01g-Run0 - v11-01f-geosfp-Run0

BrNO2 - Diff @ 500 hPa for Jan



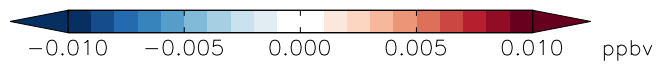
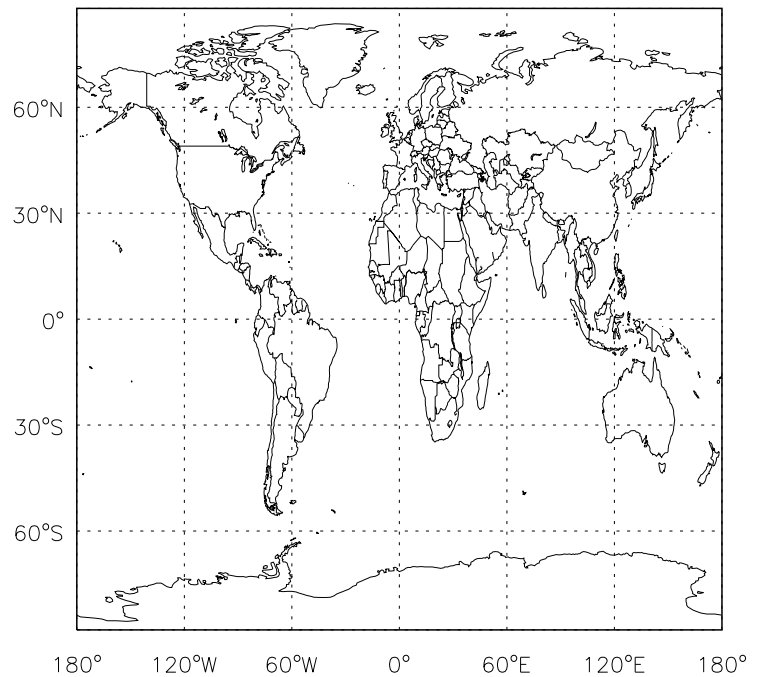
v11-01g-Run0 - v11-01d-Run1

BrNO2 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

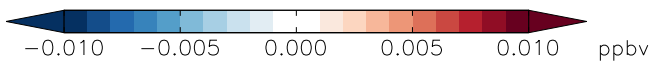
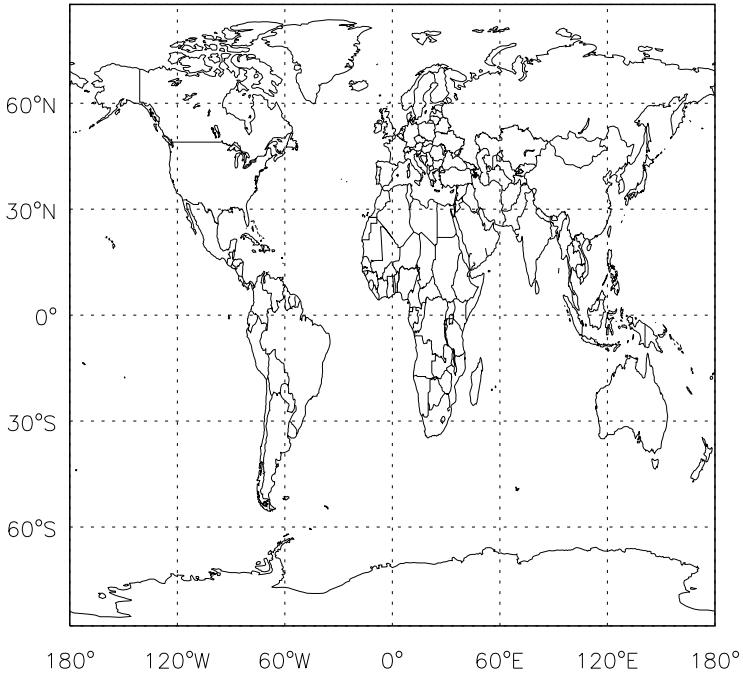
BrNO2 - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

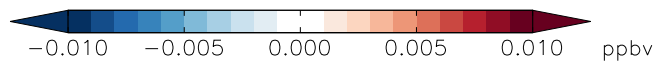
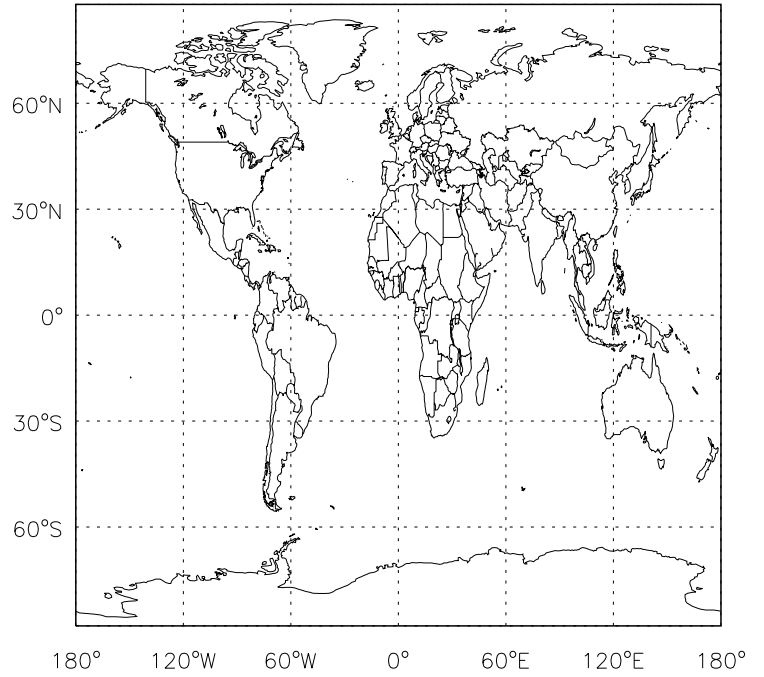
v11-01g-Run0 - v11-01f-geosfp-Run0

BrNO3 - Diff @ Surface for Jan



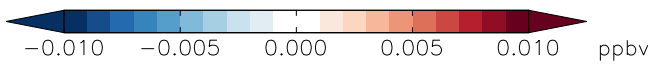
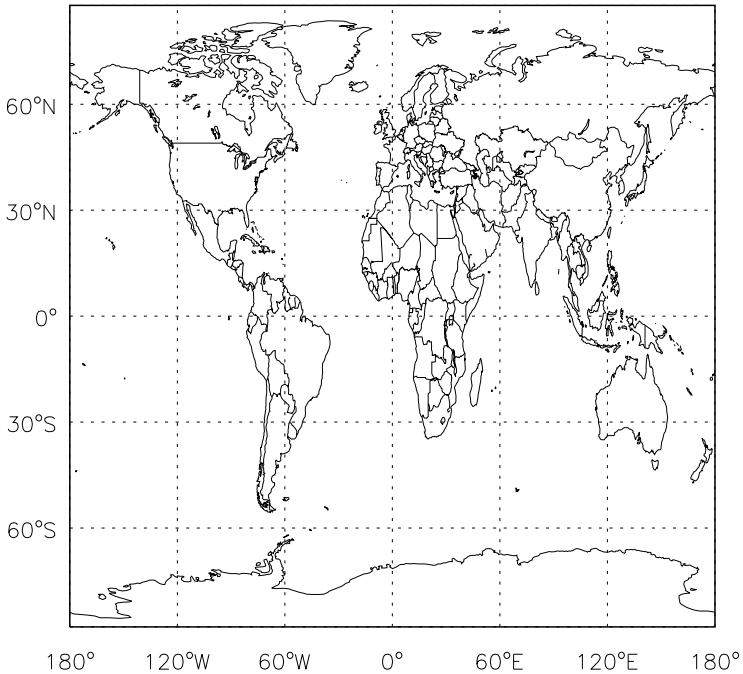
v11-01g-Run0 - v11-01f-geosfp-Run0

BrNO3- Diff @ 500 hPa for Jan



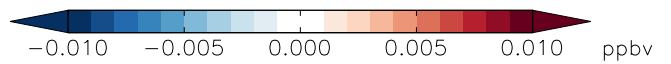
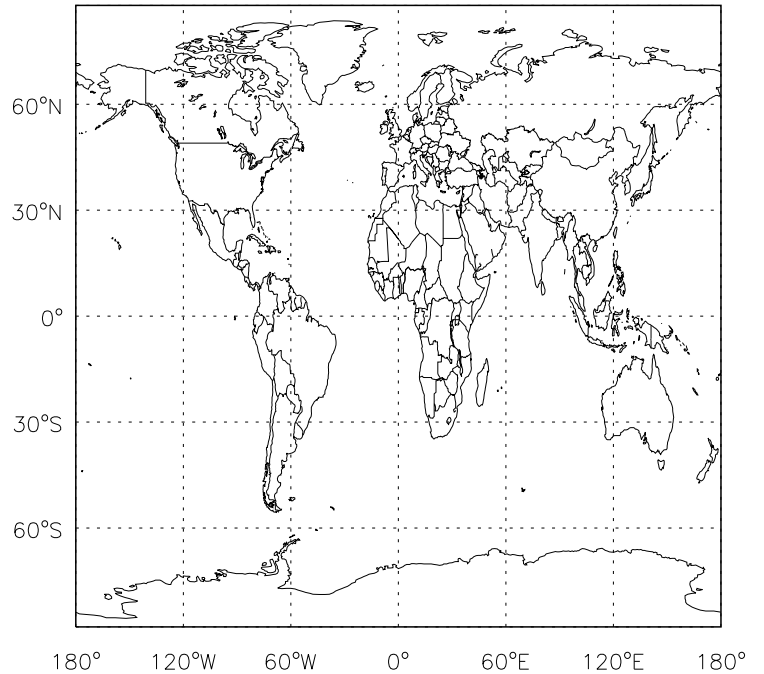
v11-01g-Run0 - v11-01d-Run1

BrNO3 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

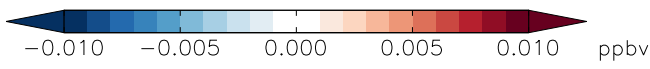
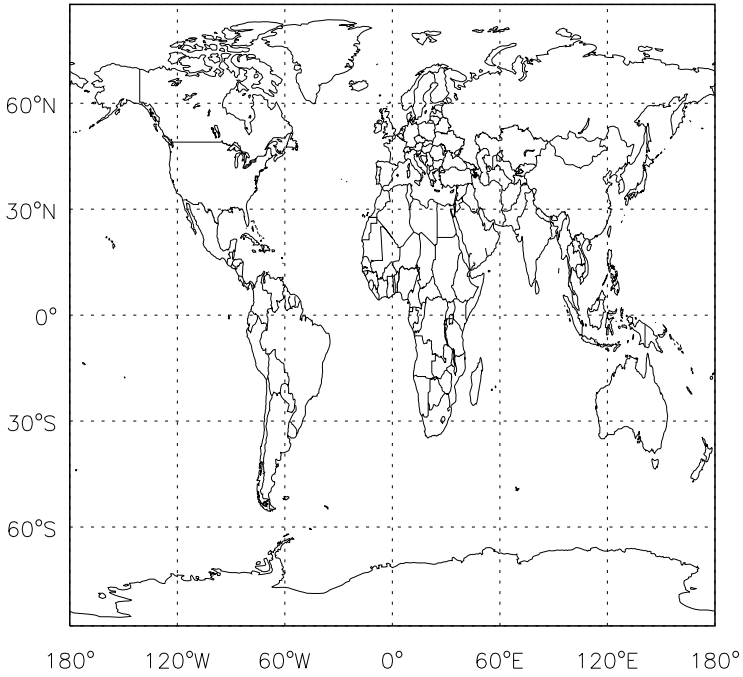
BrNO3- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

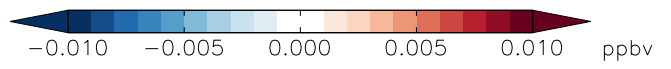
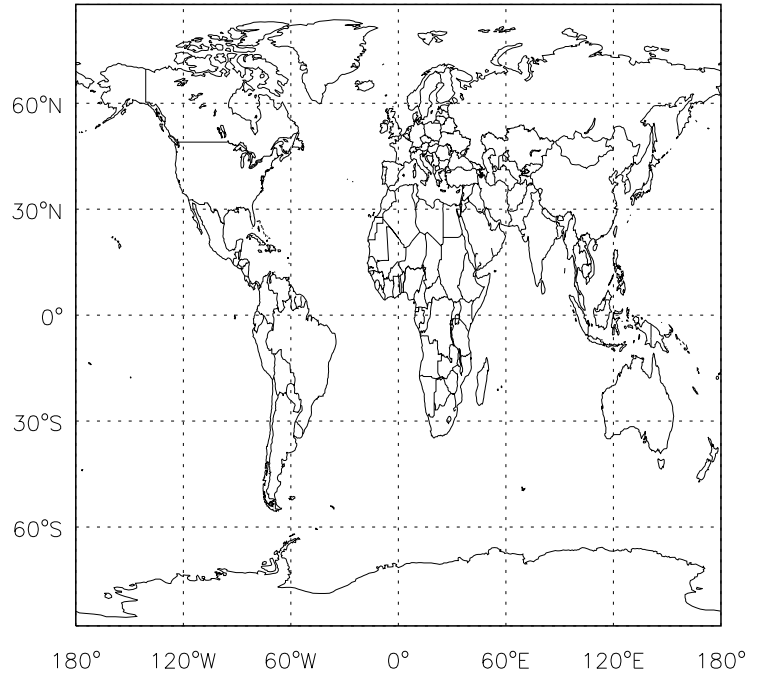
v11-01g-Run0 - v11-01f-geosfp-Run0

CHBr3 - Diff @ Surface for Jan



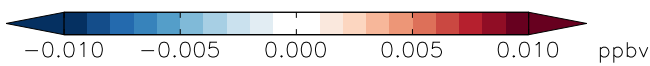
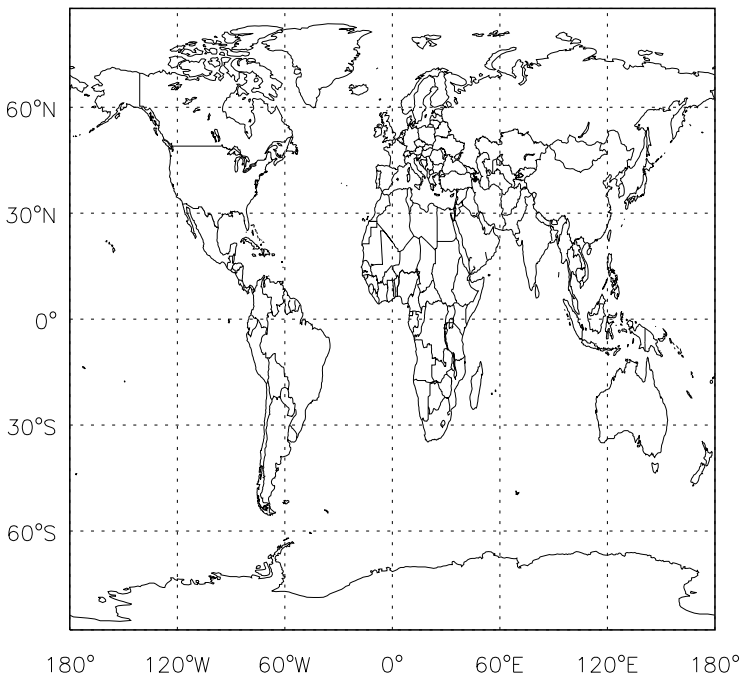
v11-01g-Run0 - v11-01f-geosfp-Run0

CHBr3- Diff @ 500 hPa for Jan



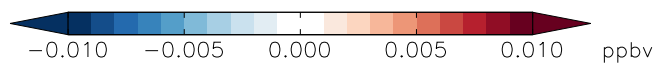
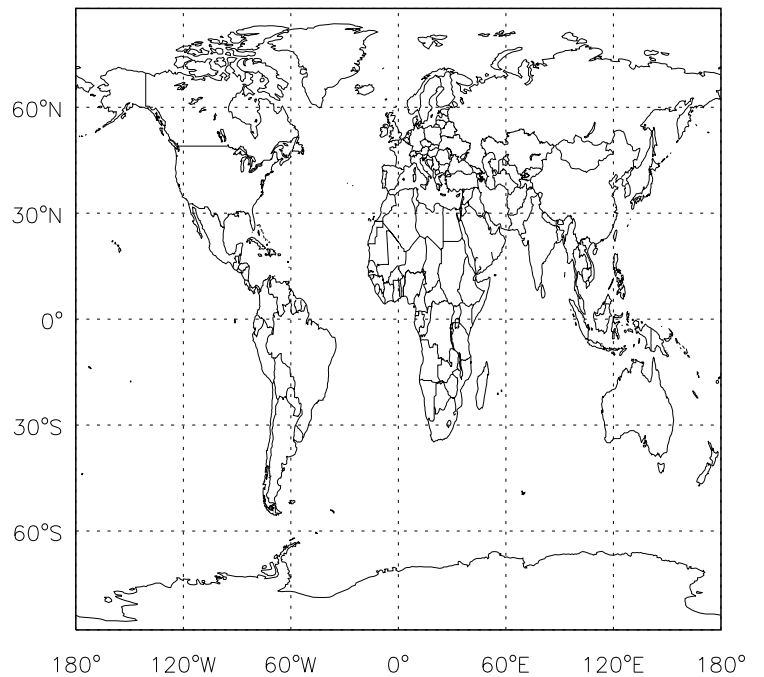
v11-01g-Run0 - v11-01d-Run1

CHBr3 - Diff @ Surface for Jan



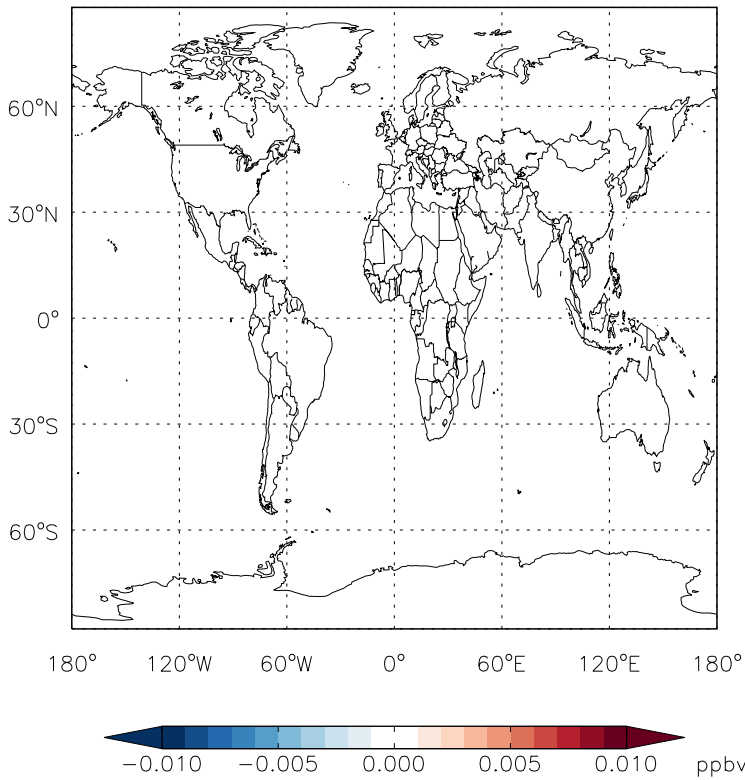
v11-01g-Run0 - v11-01d-Run1

CHBr3- Diff @ 500 hPa for Jan

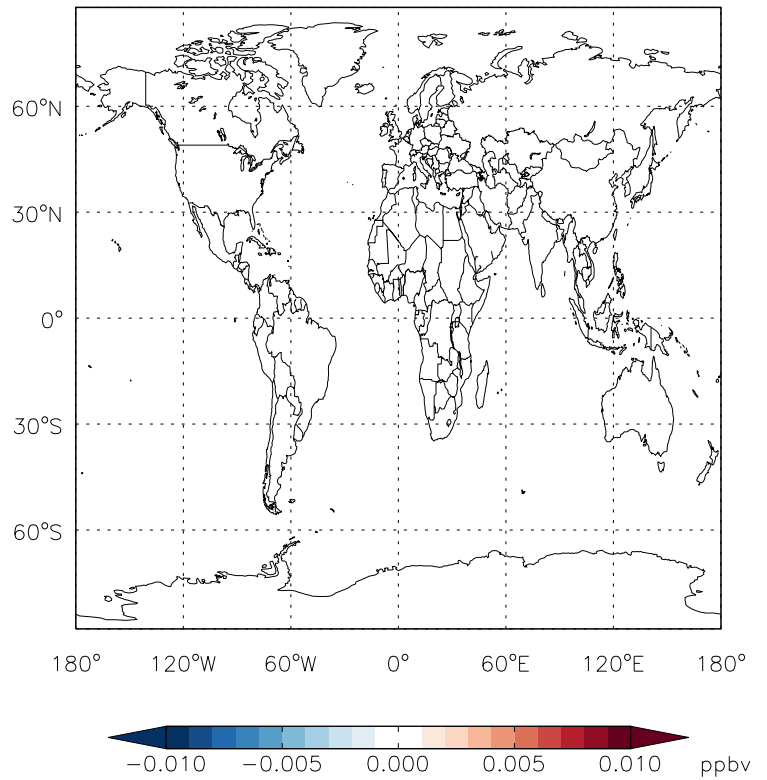


GEOS-Chem Difference Maps at surface and 500 hPa

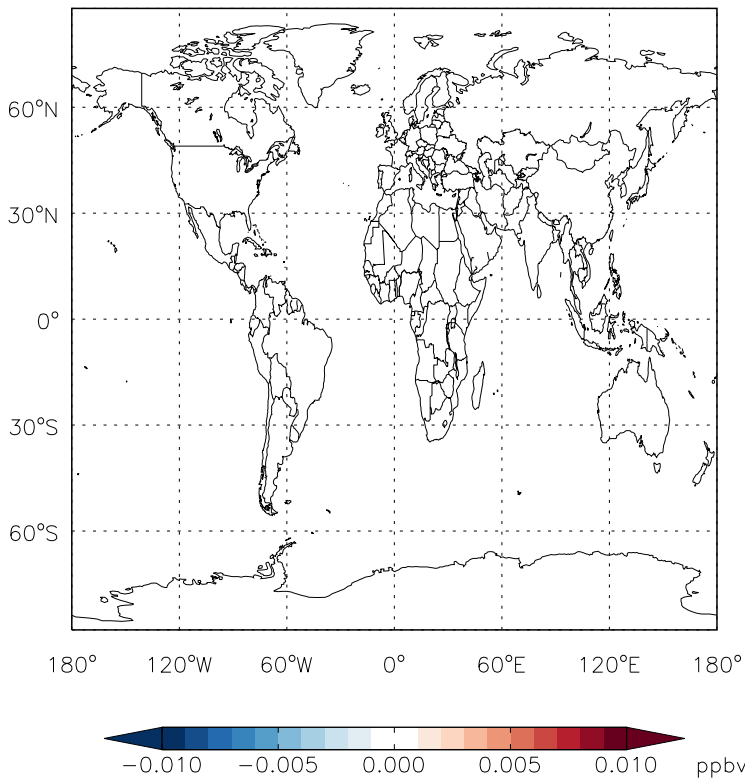
v11-01g-Run0 - v11-01f-geosfp-Run0  
CH<sub>2</sub>Br<sub>2</sub> - Diff @ Surface for Jan



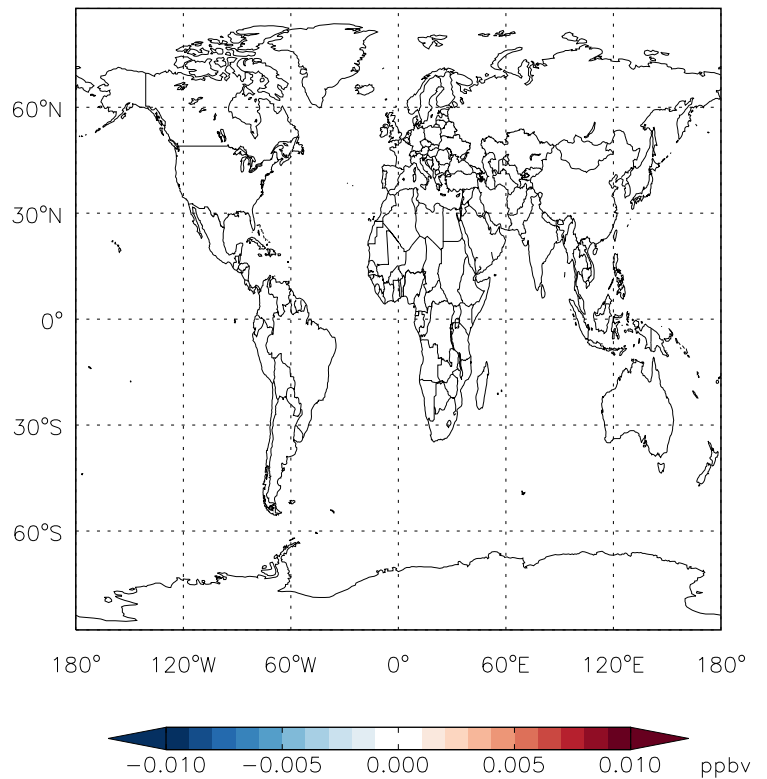
v11-01g-Run0 - v11-01f-geosfp-Run0  
CH<sub>2</sub>Br<sub>2</sub> - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
CH<sub>2</sub>Br<sub>2</sub> - Diff @ Surface for Jan



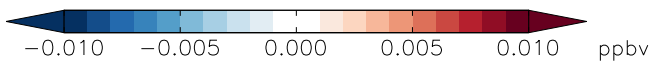
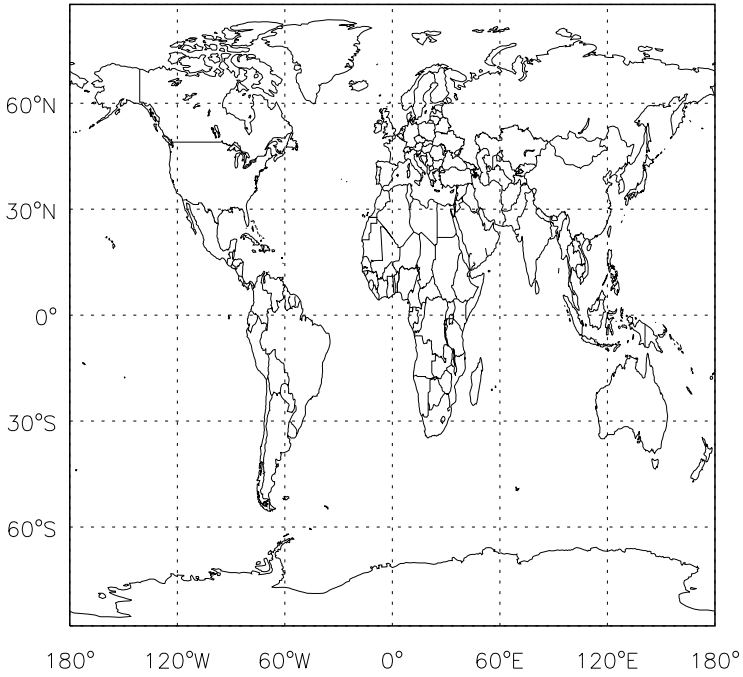
v11-01g-Run0 - v11-01d-Run1  
CH<sub>2</sub>Br<sub>2</sub> - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

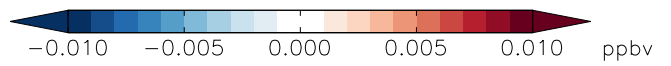
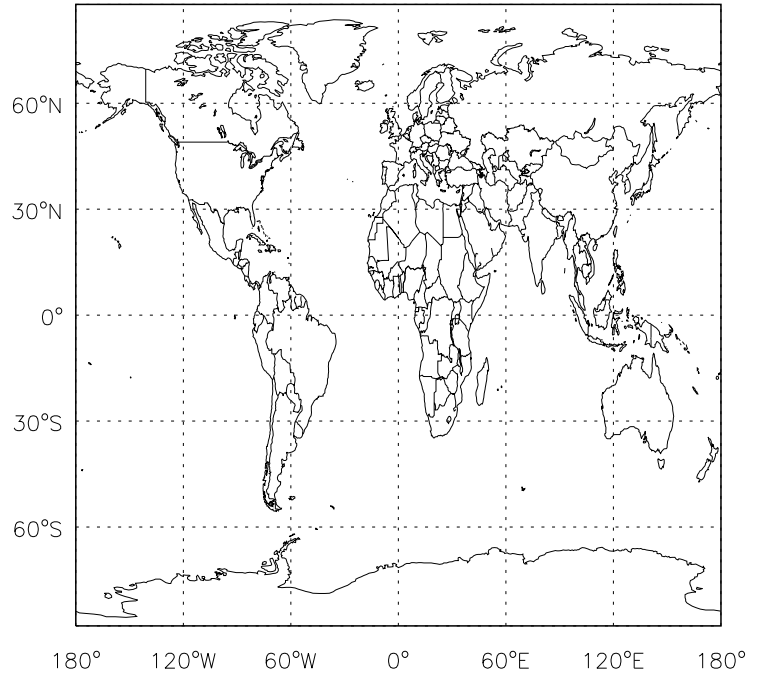
v11-01g-Run0 - v11-01f-geosfp-Run0

CH3Br - Diff @ Surface for Jan



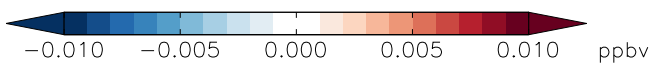
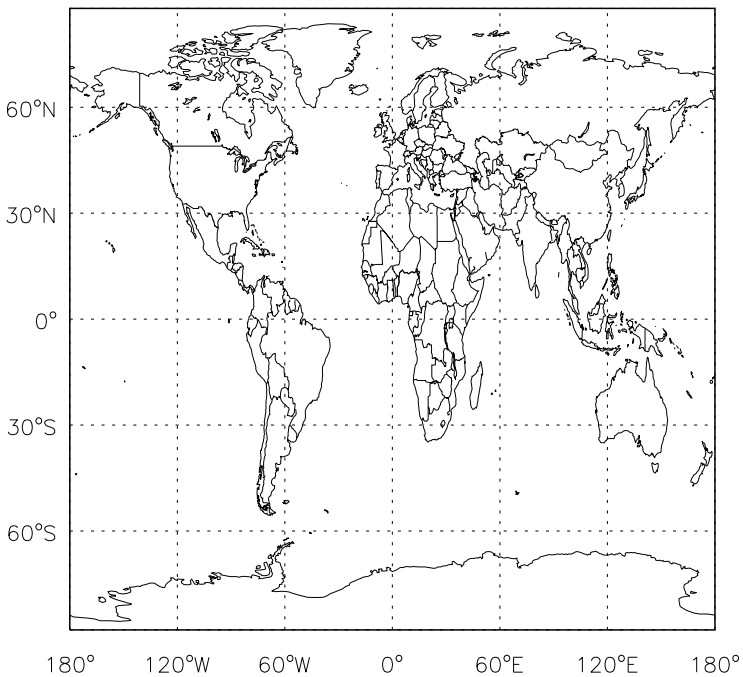
v11-01g-Run0 - v11-01f-geosfp-Run0

CH3Br- Diff @ 500 hPa for Jan



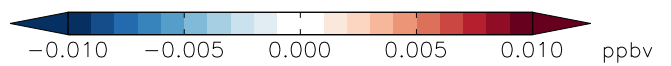
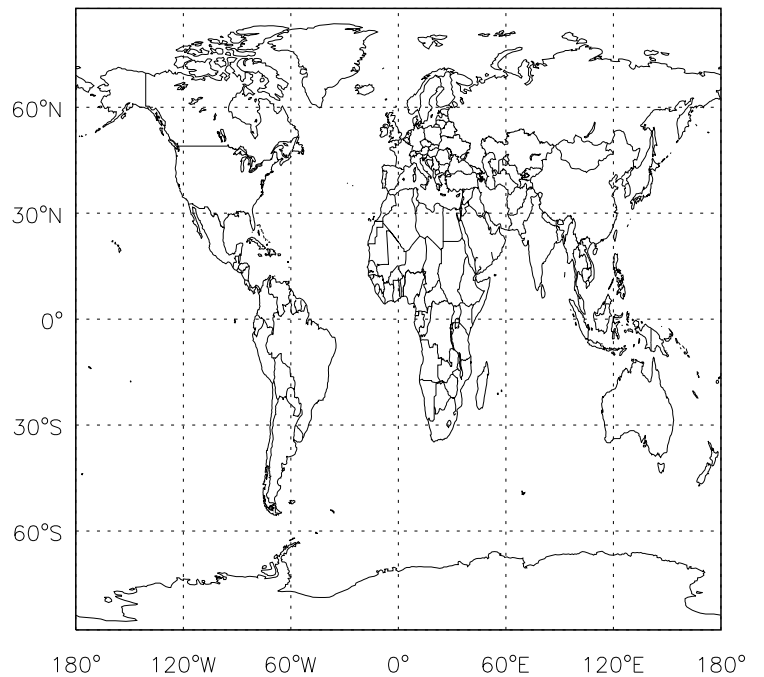
v11-01g-Run0 - v11-01d-Run1

CH3Br - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

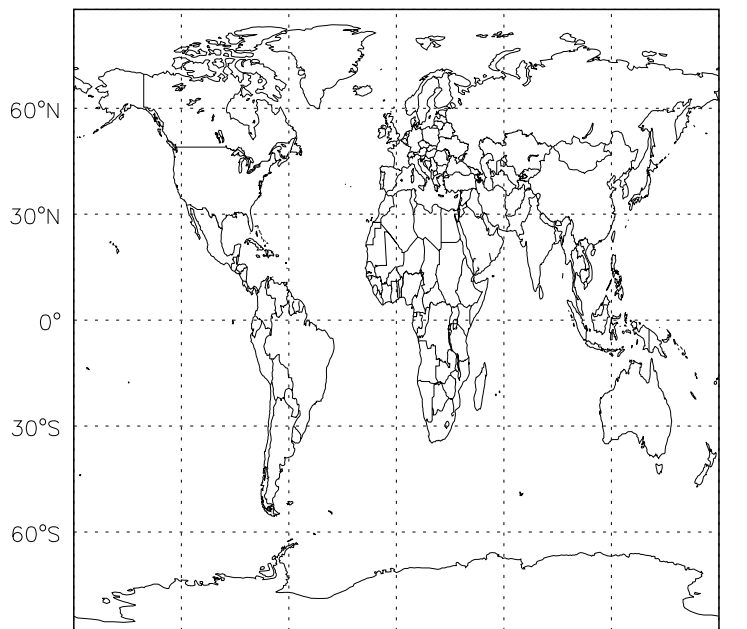
CH3Br- Diff @ 500 hPa for Jan



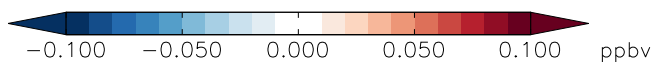
GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

MPN - Diff @ Surface for Jan

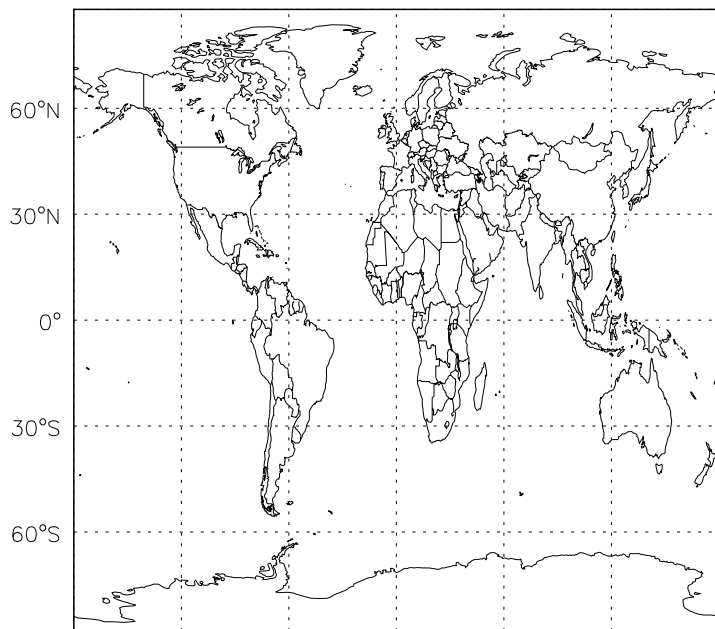


180° 120°W 60°W 0° 60°E 120°E 180°

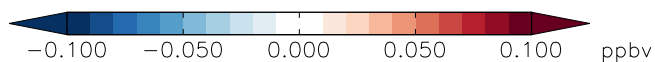


v11-01g-Run0 - v11-01f-geosfp-Run0

MPN - Diff @ 500 hPa for Jan

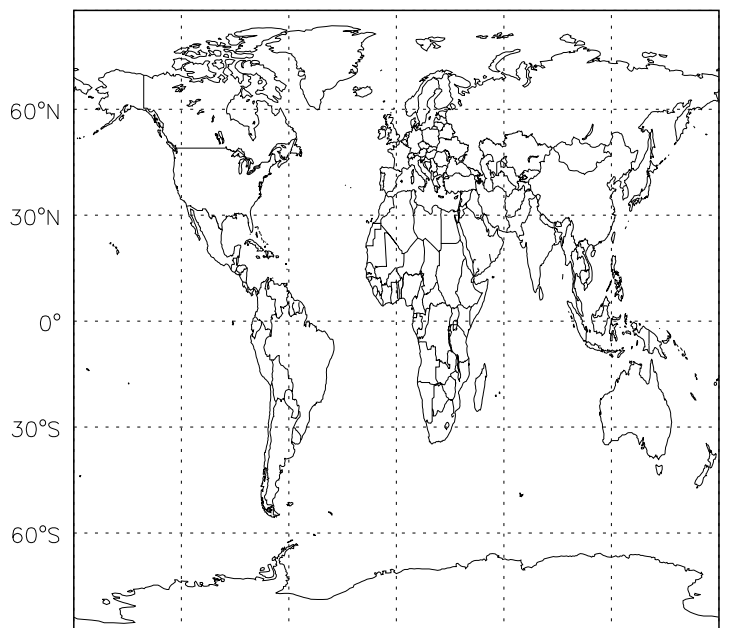


180° 120°W 60°W 0° 60°E 120°E 180°

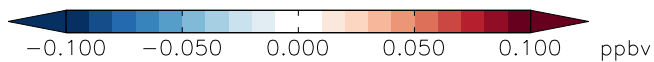


v11-01g-Run0 - v11-01d-Run1

MPN - Diff @ Surface for Jan

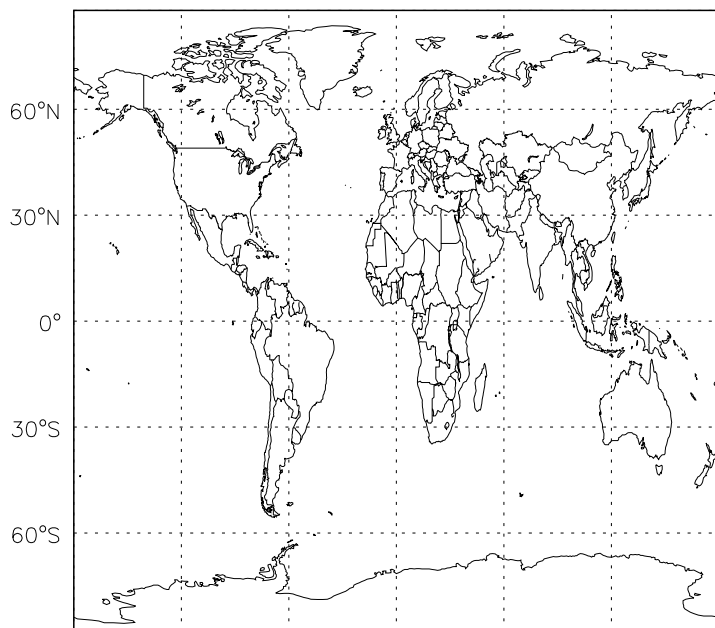


180° 120°W 60°W 0° 60°E 120°E 180°

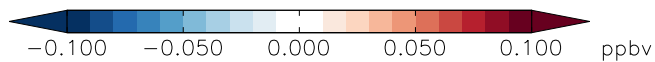


v11-01g-Run0 - v11-01d-Run1

MPN - Diff @ 500 hPa for Jan



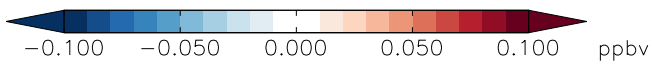
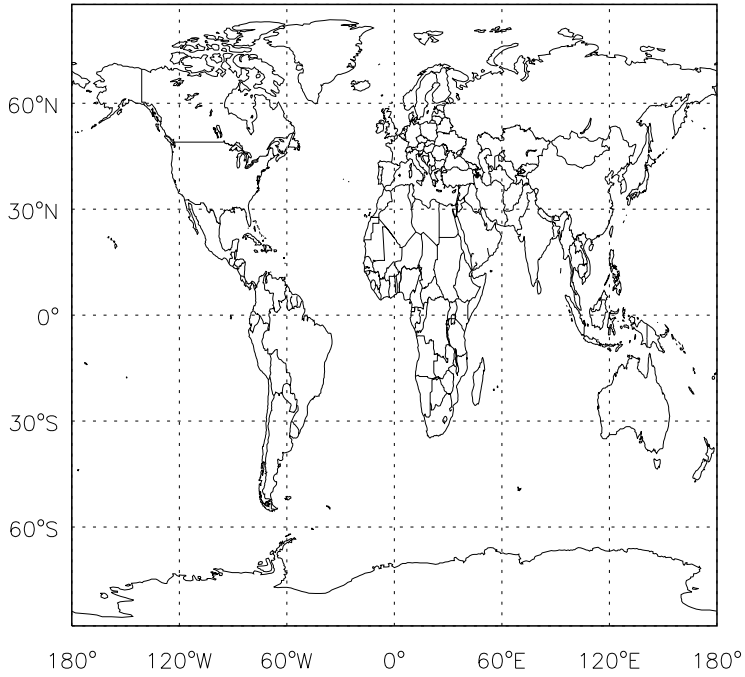
180° 120°W 60°W 0° 60°E 120°E 180°



# GEOS-Chem Difference Maps at surface and 500 hPa

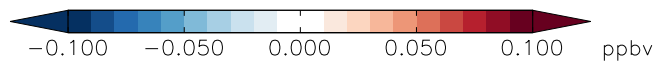
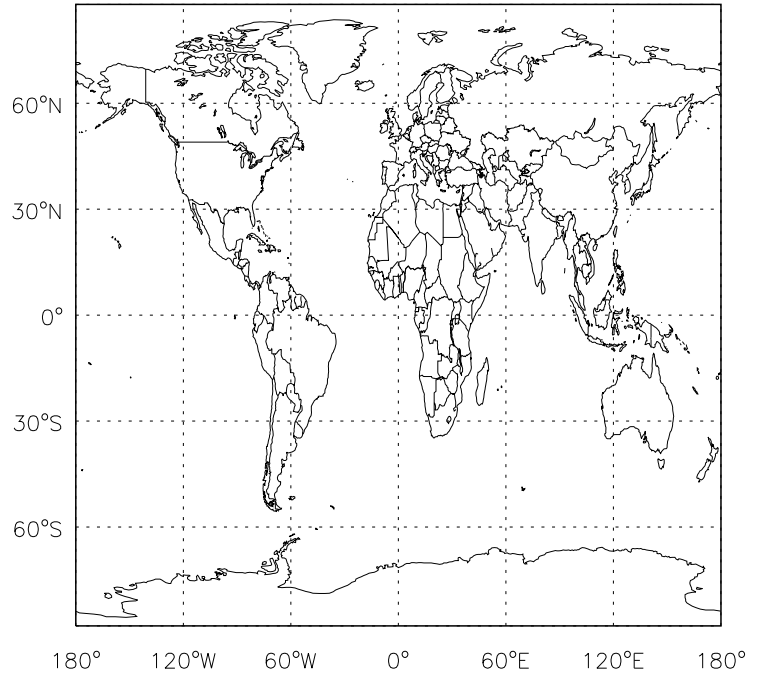
v11-01g-Run0 - v11-01f-geosfp-Run0

ISOPND - Diff @ Surface for Jan



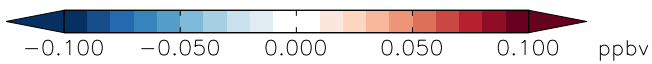
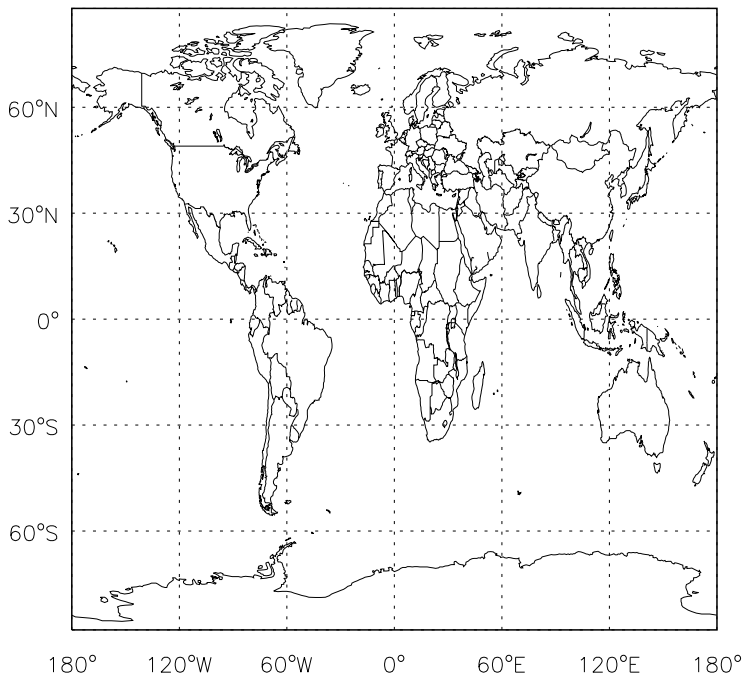
v11-01g-Run0 - v11-01f-geosfp-Run0

ISOPND - Diff @ 500 hPa for Jan



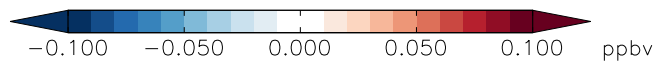
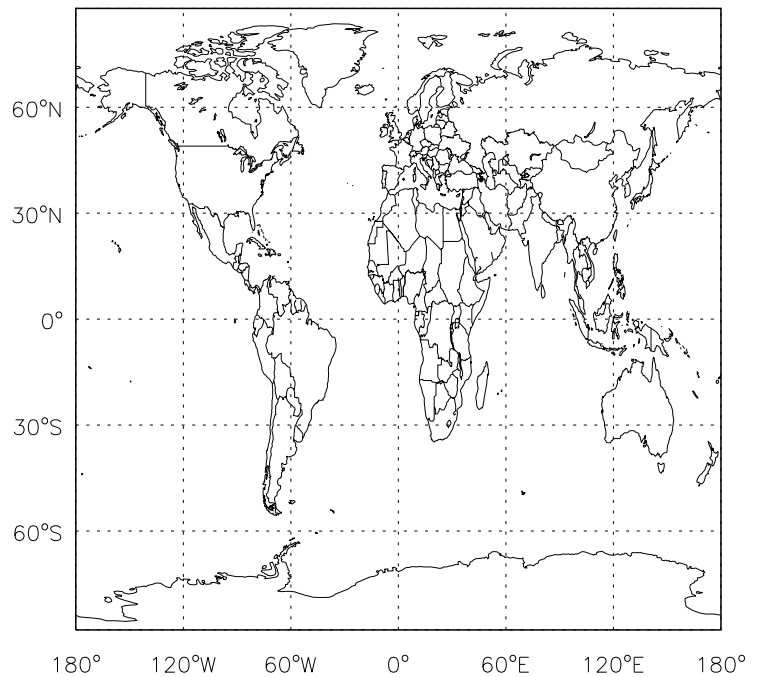
v11-01g-Run0 - v11-01d-Run1

ISOPND - Diff @ Surface for Jan



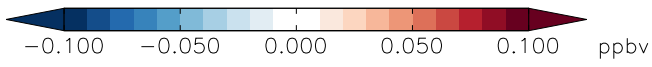
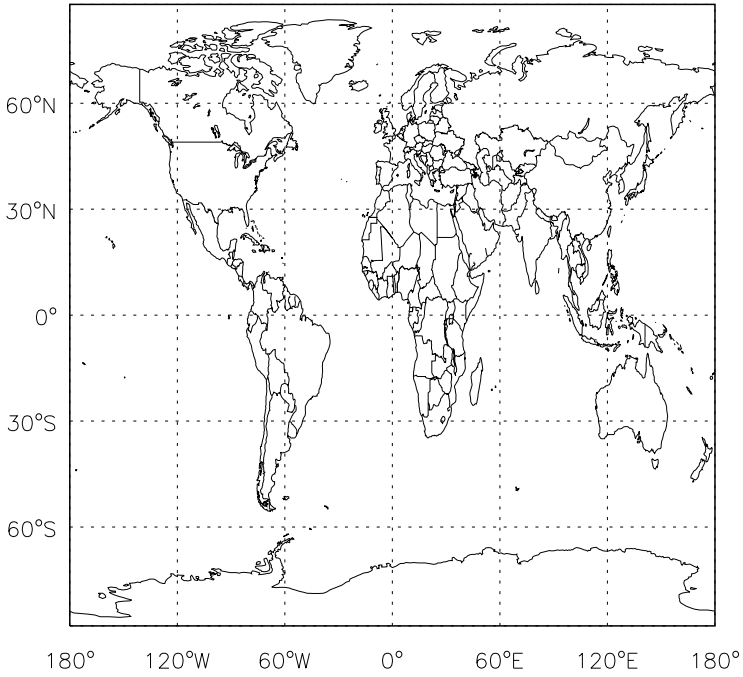
v11-01g-Run0 - v11-01d-Run1

ISOPND - Diff @ 500 hPa for Jan

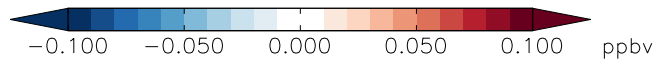
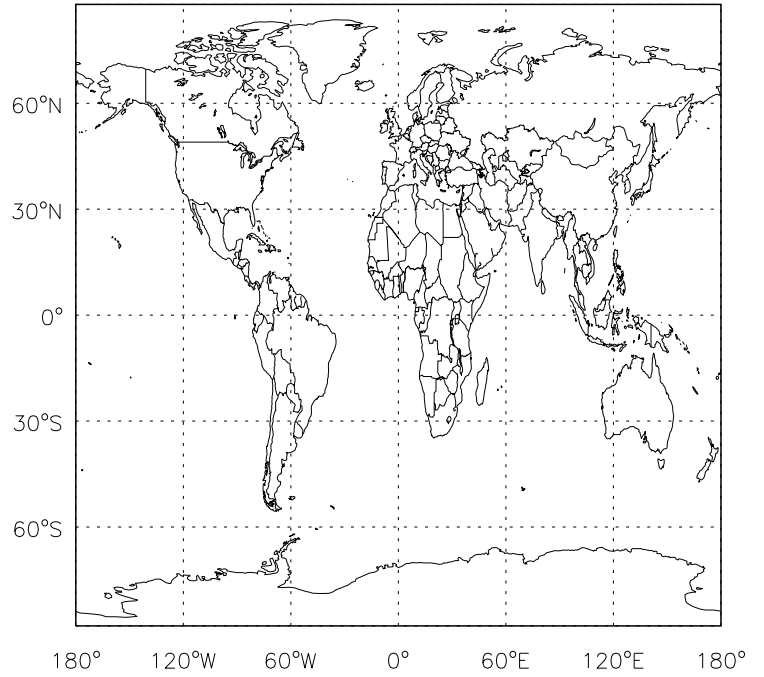


GEOS-Chem Difference Maps at surface and 500 hPa

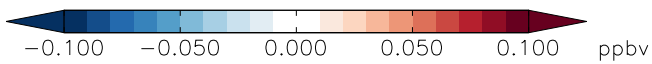
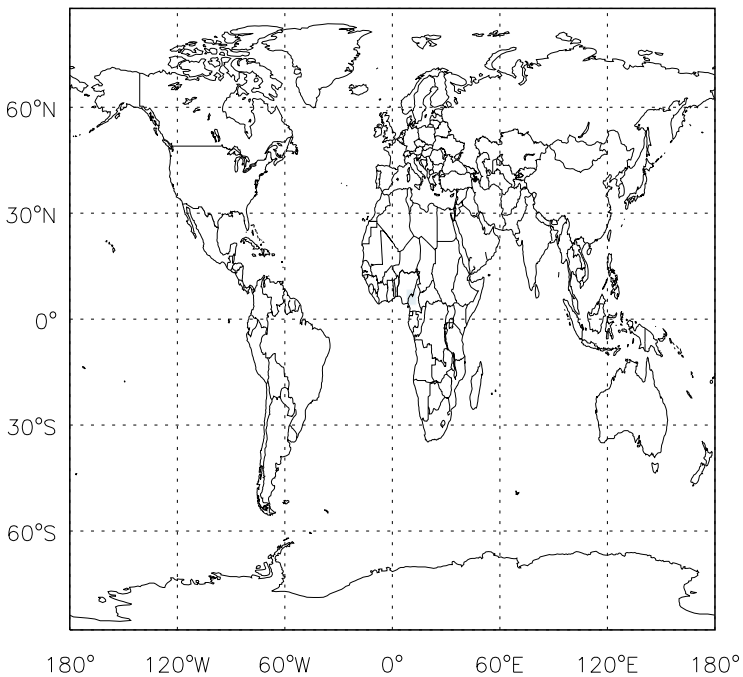
v11-01g-Run0 - v11-01f-geosfp-Run0  
ISOPNB - Diff @ Surface for Jan



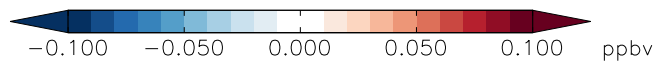
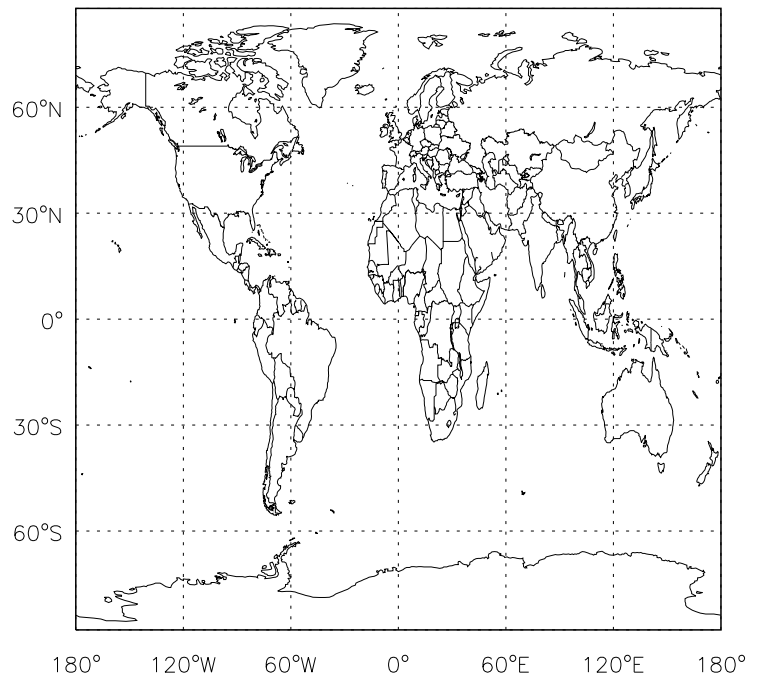
v11-01g-Run0 - v11-01f-geosfp-Run0  
ISOPNB - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
ISOPNB - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1  
ISOPNB - Diff @ 500 hPa for Jan

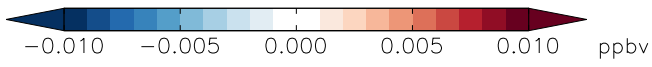
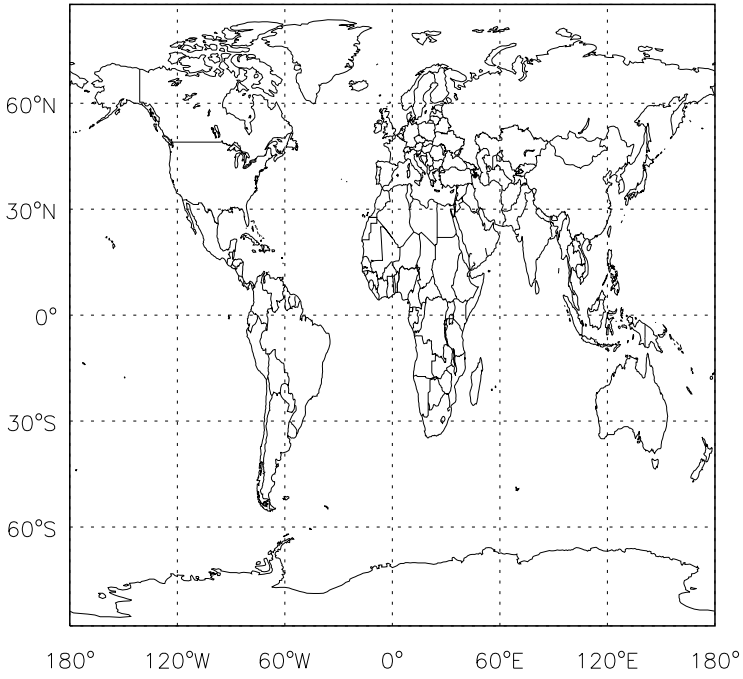




GEOS-Chem Difference Maps at surface and 500 hPa

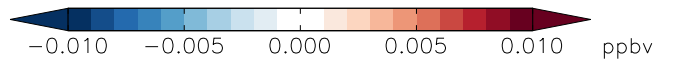
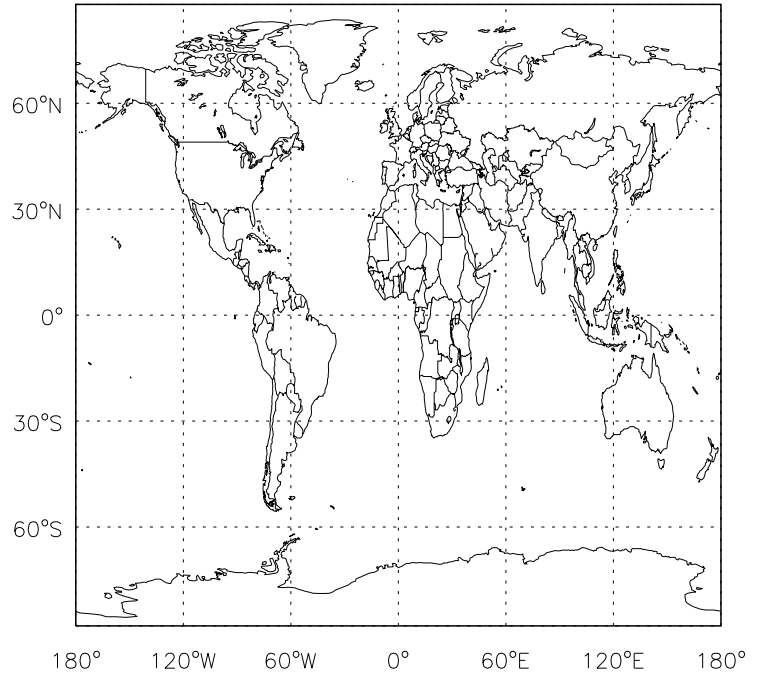
v11-01g-Run0 - v11-01f-geosfp-Run0

MOBA - Diff @ Surface for Jan



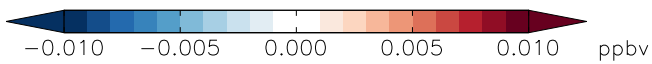
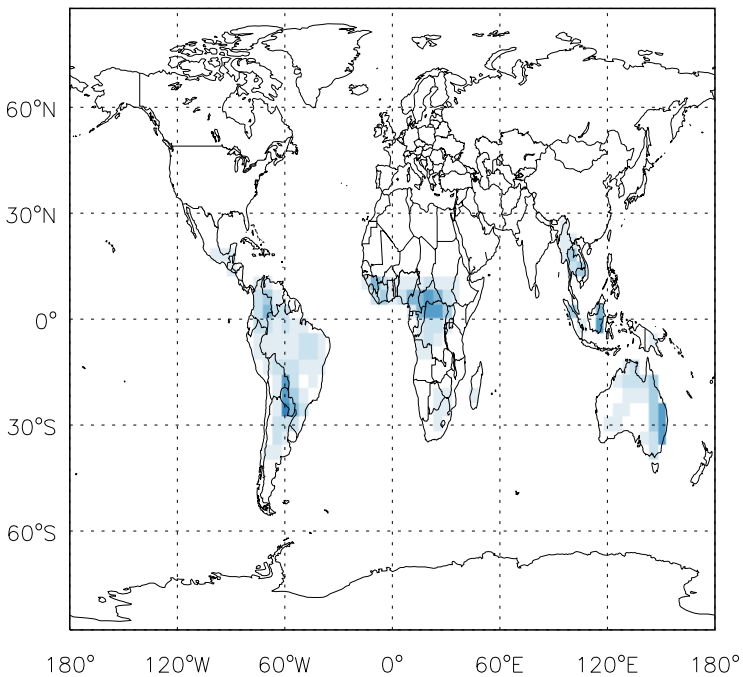
v11-01g-Run0 - v11-01f-geosfp-Run0

MOBA- Diff @ 500 hPa for Jan



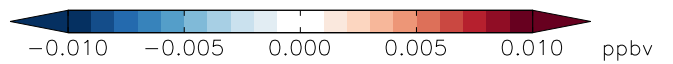
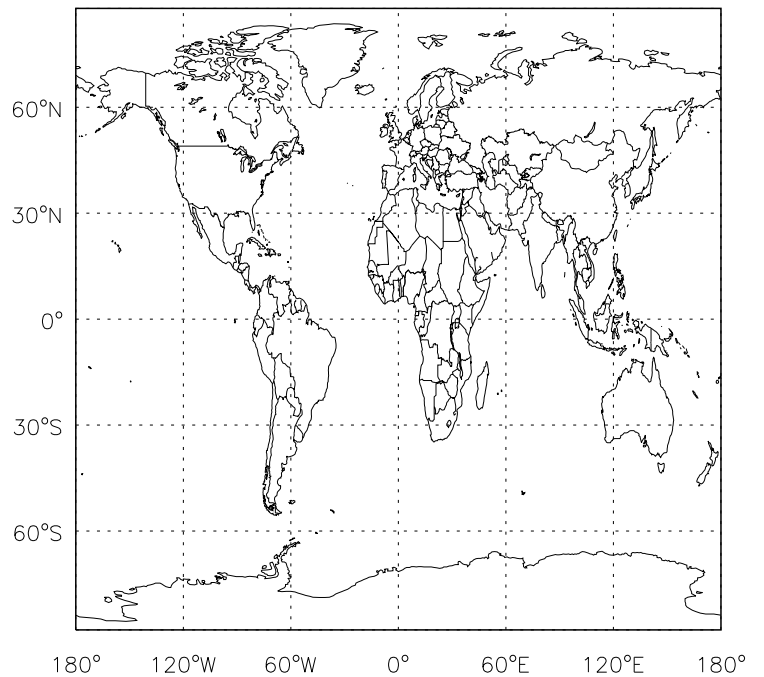
v11-01g-Run0 - v11-01d-Run1

MOBA - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

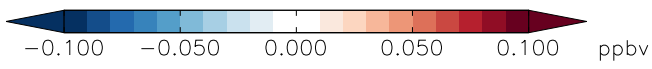
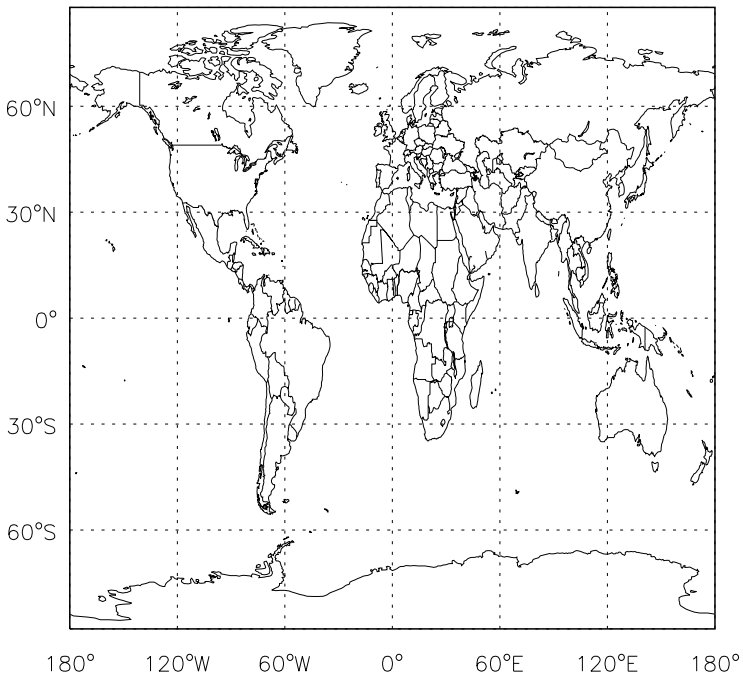
MOBA- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

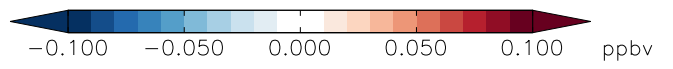
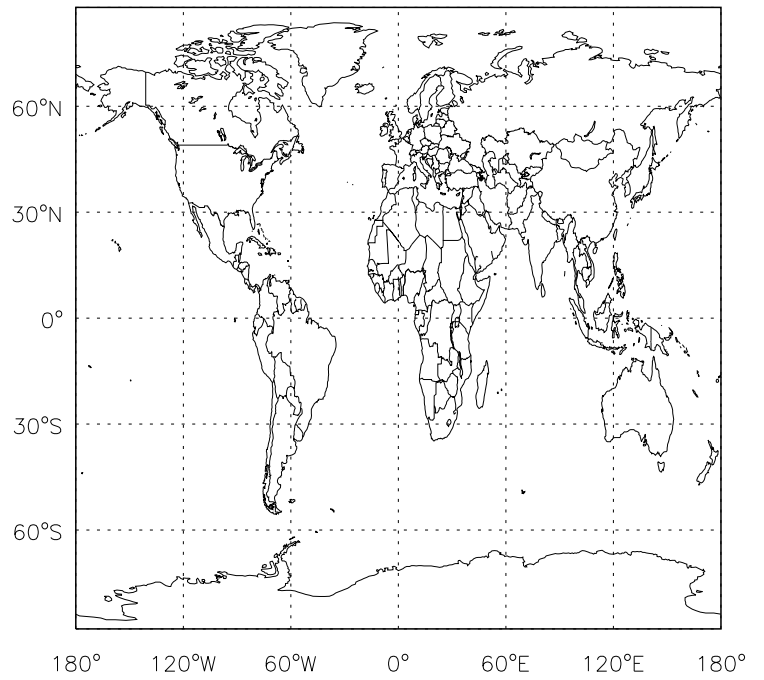
v11-01g-Run0 - v11-01f-geosfp-Run0

PROPNN - Diff @ Surface for Jan



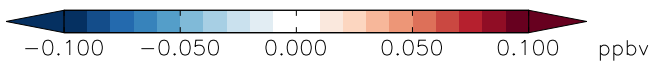
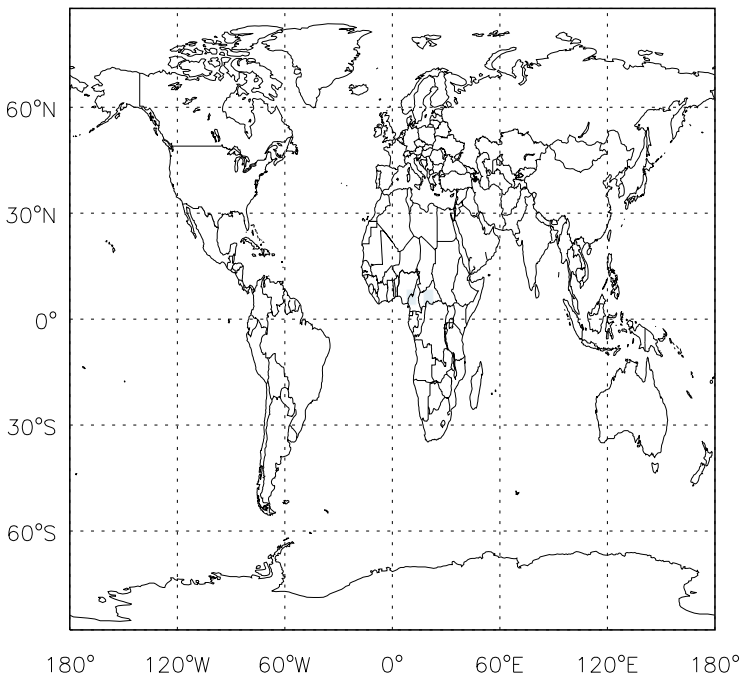
v11-01g-Run0 - v11-01f-geosfp-Run0

PROPNN- Diff @ 500 hPa for Jan



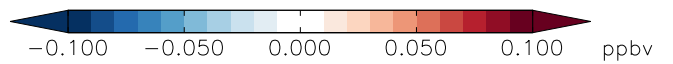
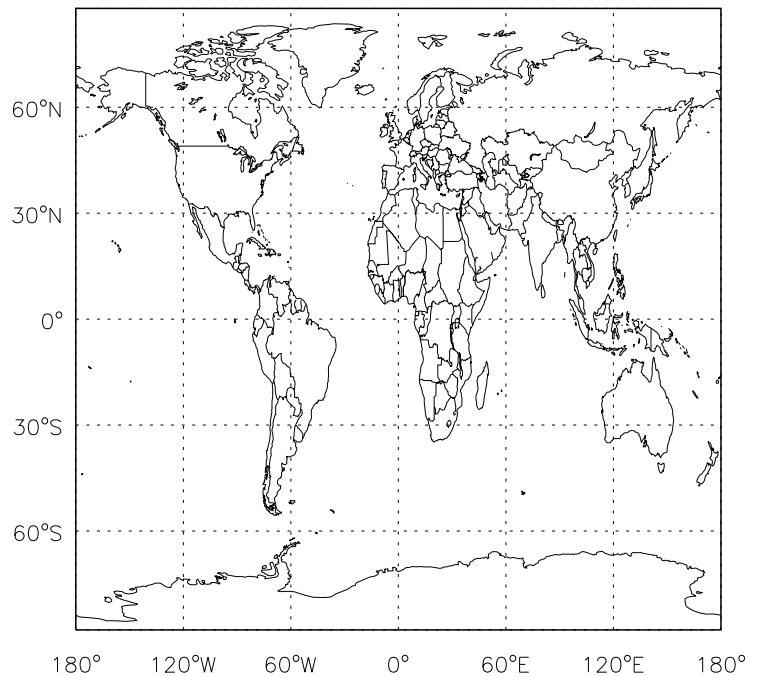
v11-01g-Run0 - v11-01d-Run1

PROPNN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

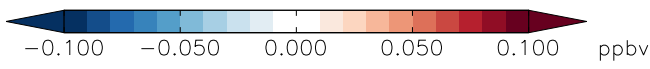
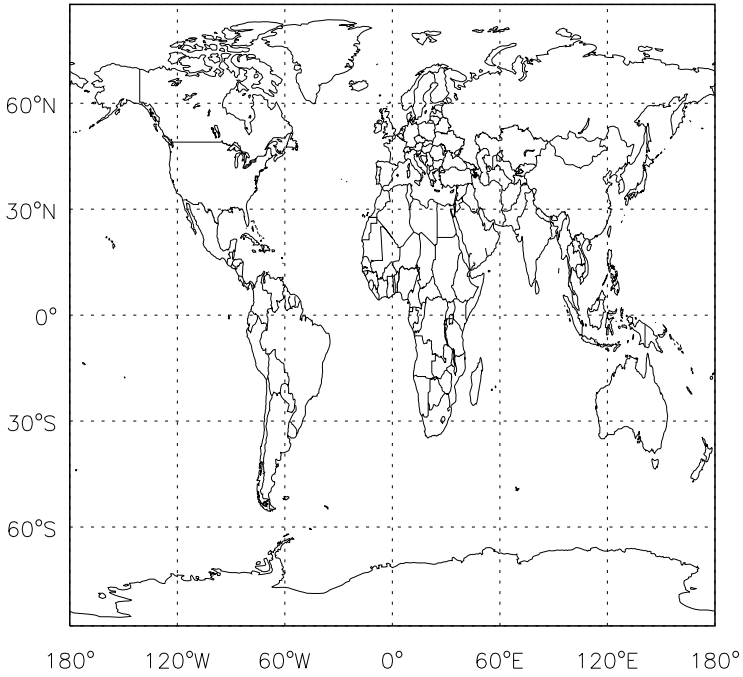
PROPNN- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

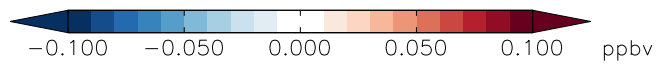
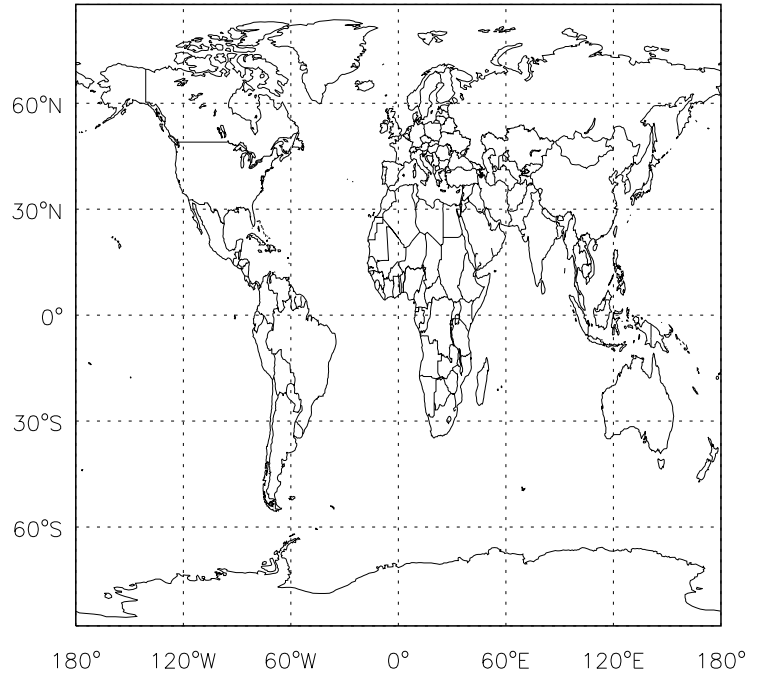
v11-01g-Run0 - v11-01f-geosfp-Run0

HAC - Diff @ Surface for Jan



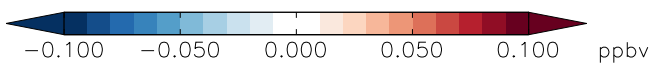
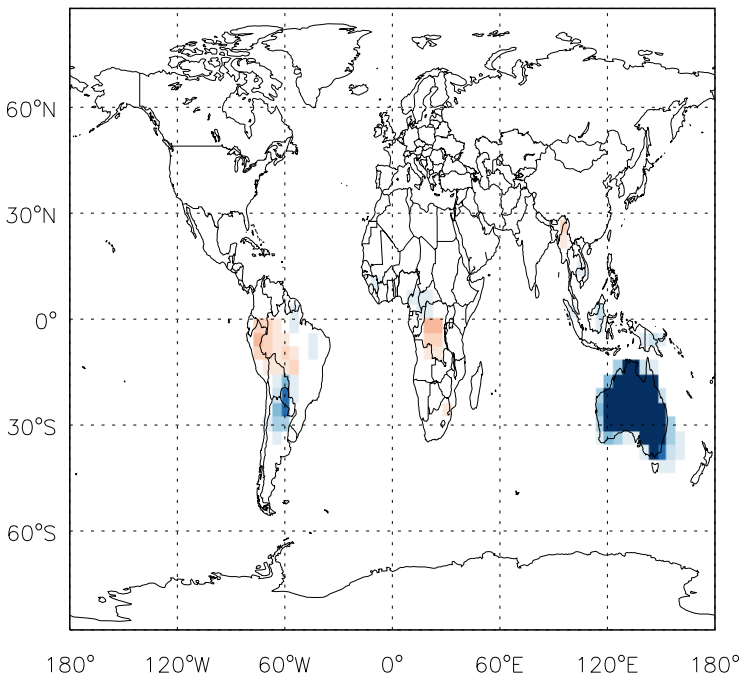
v11-01g-Run0 - v11-01f-geosfp-Run0

HAC - Diff @ 500 hPa for Jan



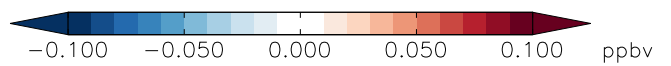
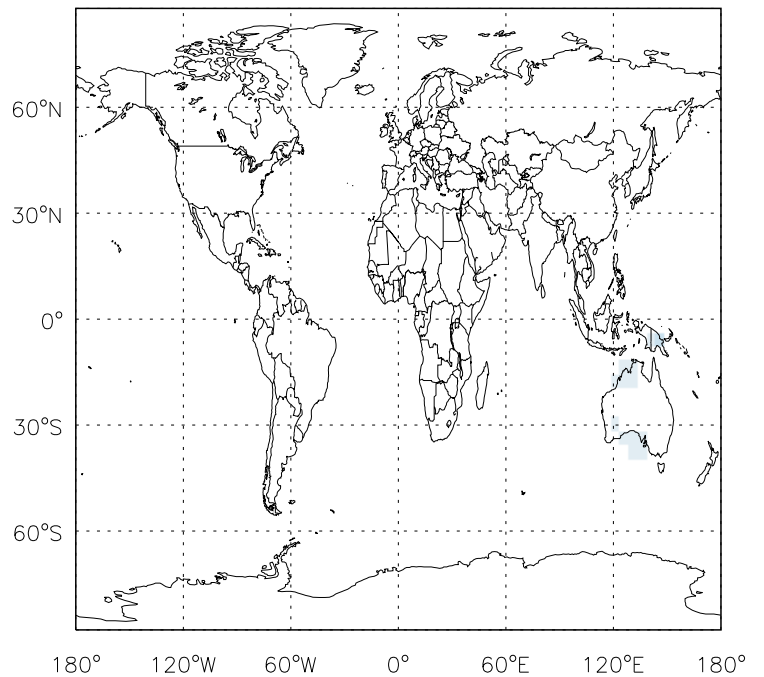
v11-01g-Run0 - v11-01d-Run1

HAC - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

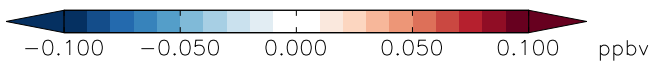
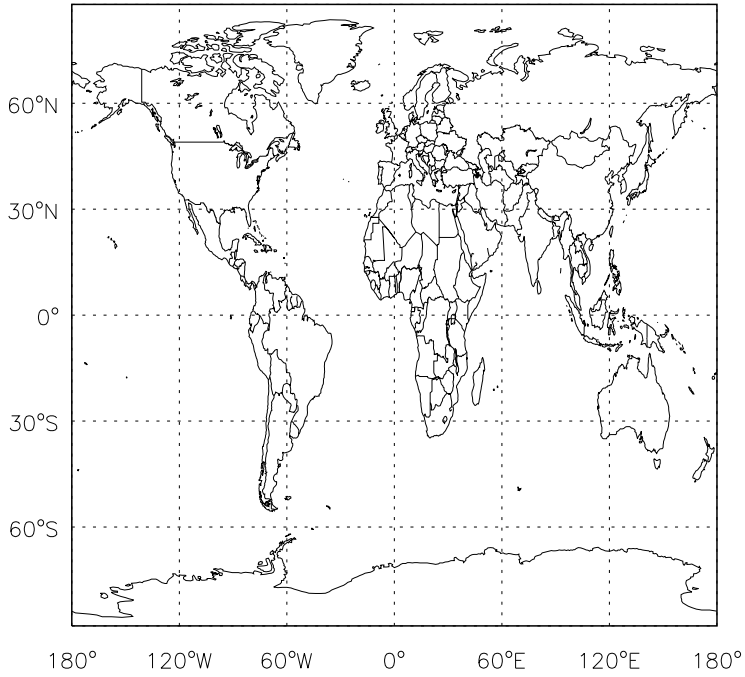
HAC - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

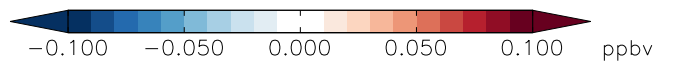
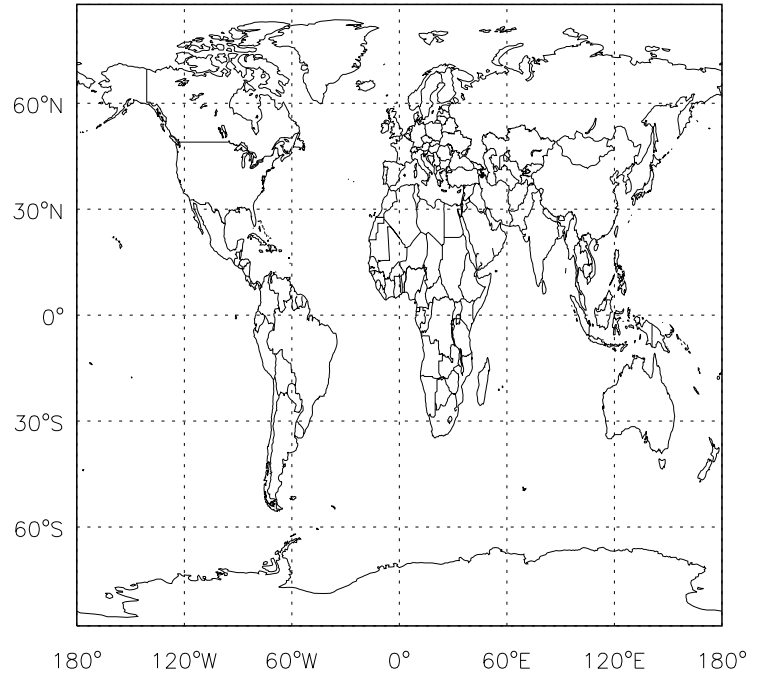
v11-01g-Run0 - v11-01f-geosfp-Run0

GLYC - Diff @ Surface for Jan



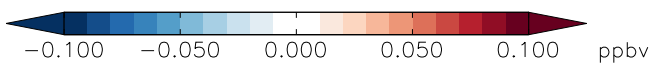
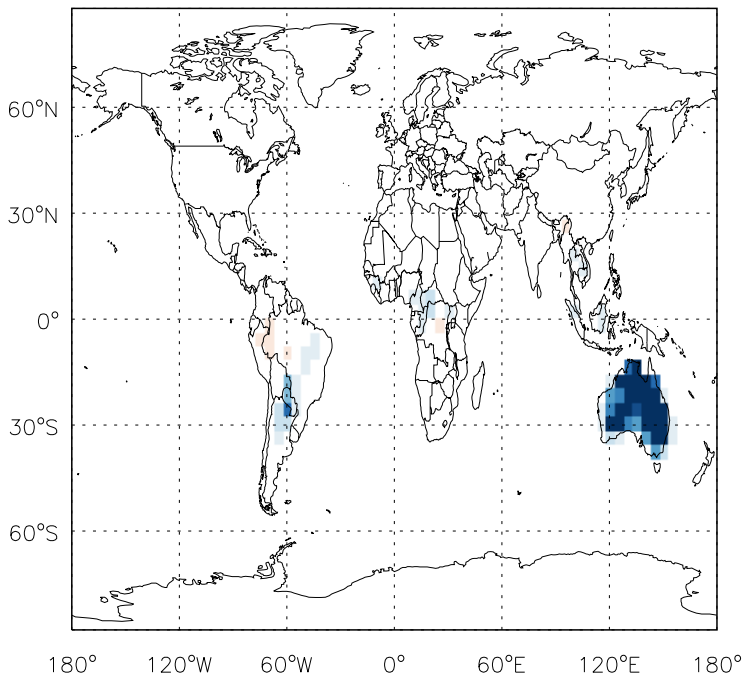
v11-01g-Run0 - v11-01f-geosfp-Run0

GLYC - Diff @ 500 hPa for Jan



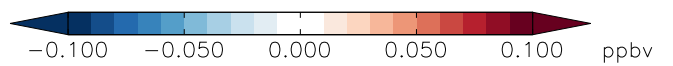
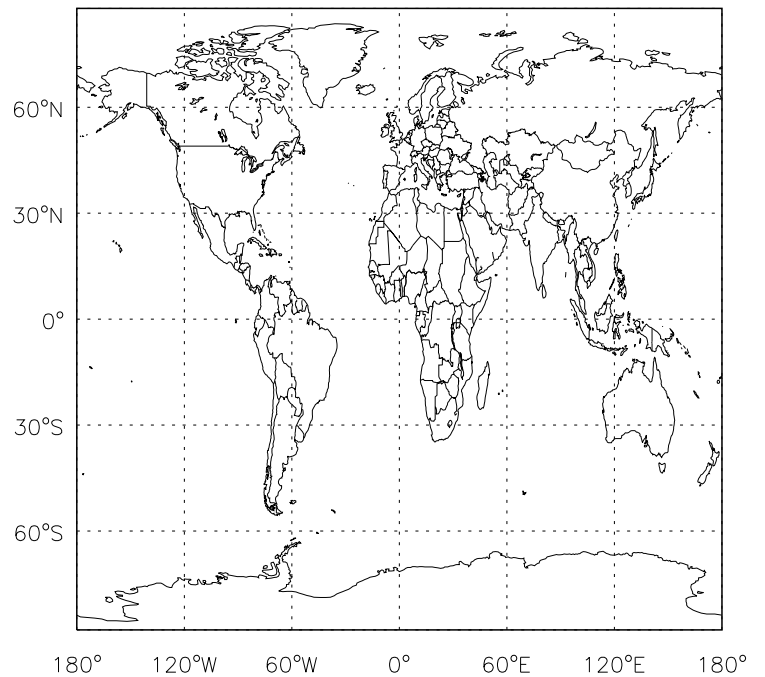
v11-01g-Run0 - v11-01d-Run1

GLYC - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

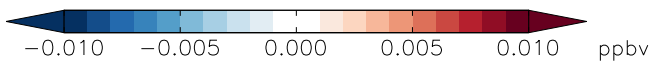
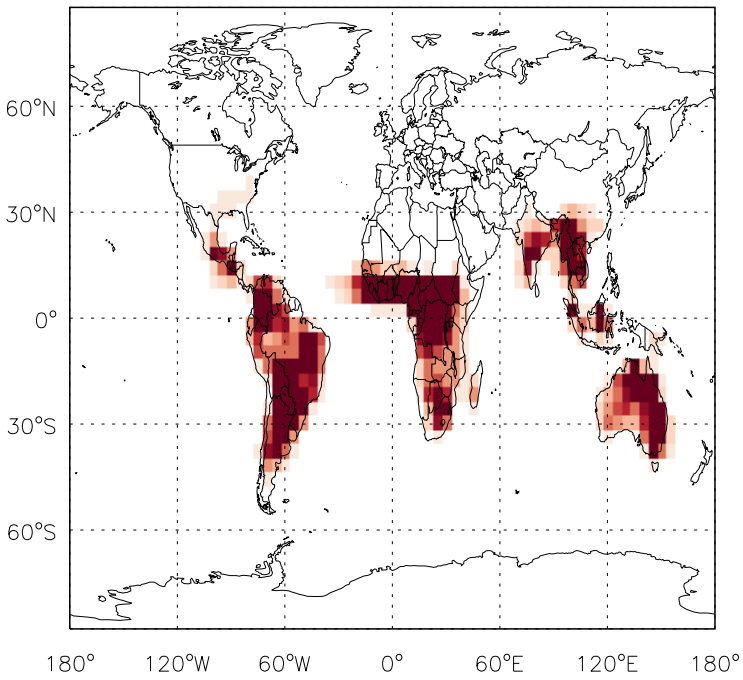
GLYC - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

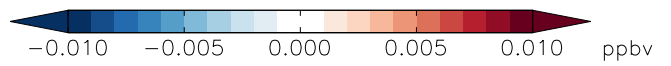
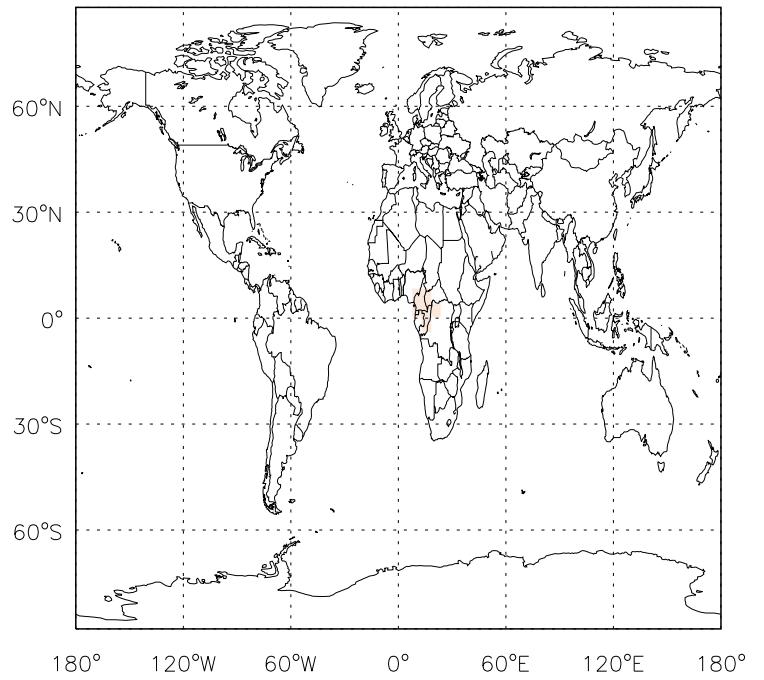
v11-01g-Run0 - v11-01f-geosfp-Run0

MVKN - Diff @ Surface for Jan



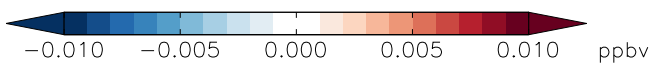
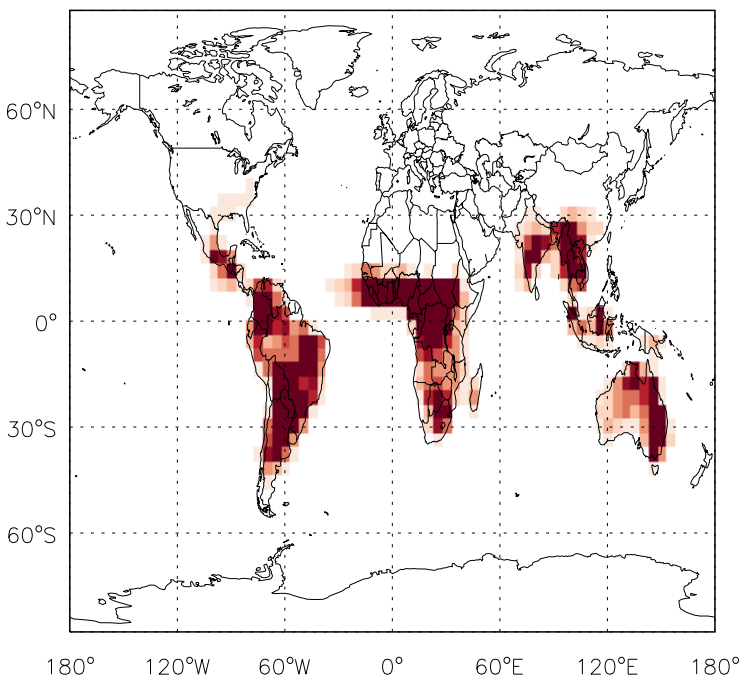
v11-01g-Run0 - v11-01f-geosfp-Run0

MVKN- Diff @ 500 hPa for Jan



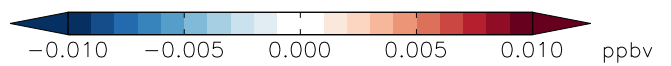
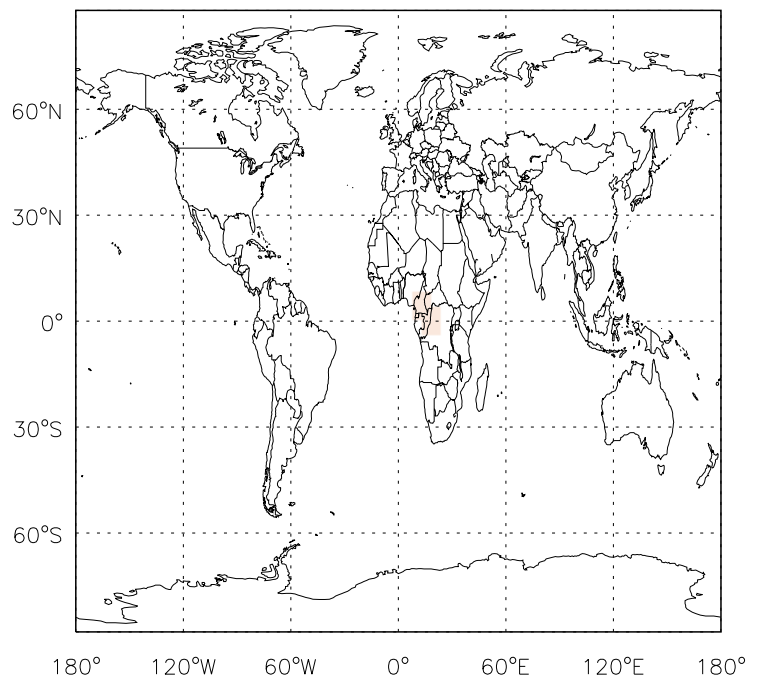
v11-01g-Run0 - v11-01d-Run1

MVKN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

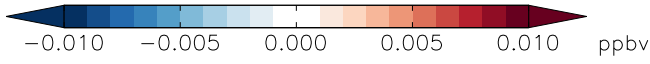
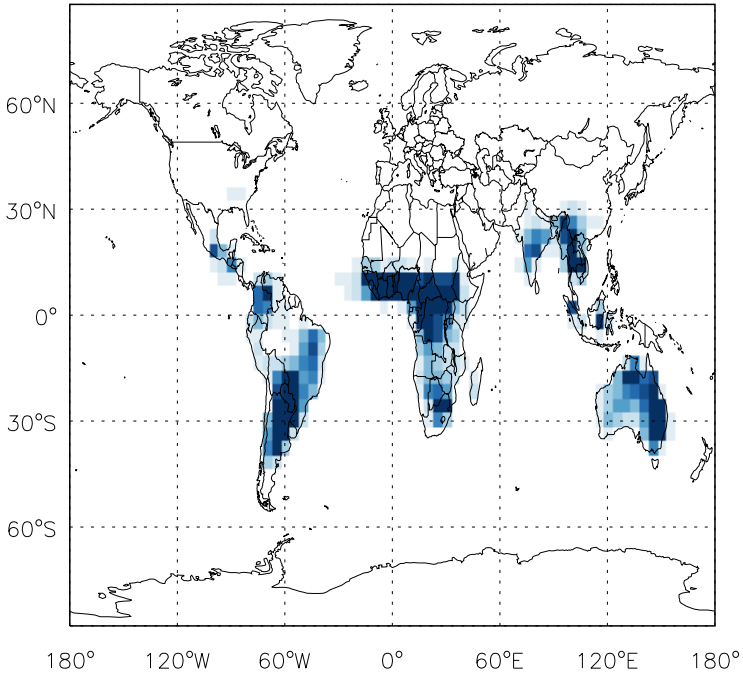
MVKN- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

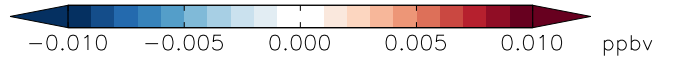
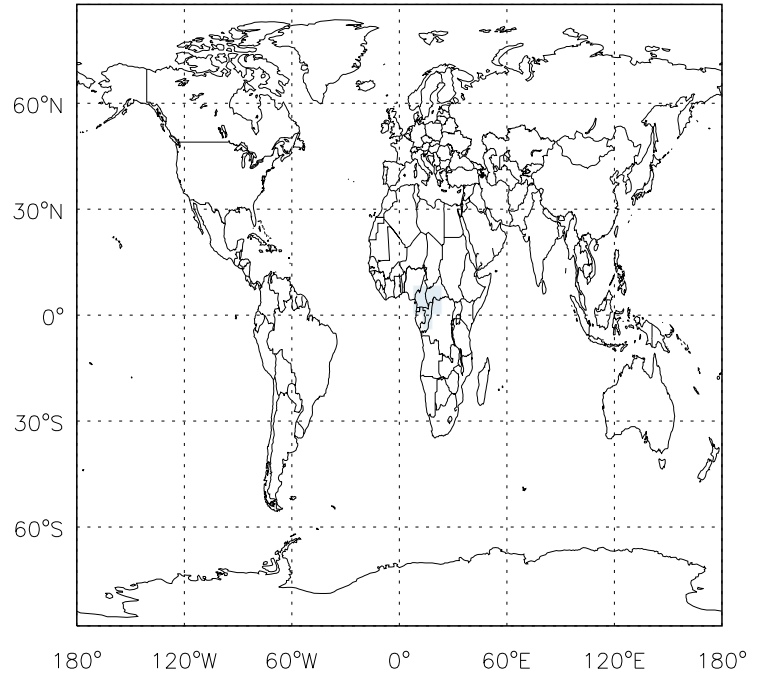
v11-01g-Run0 - v11-01f-geosfp-Run0

MACRN - Diff @ Surface for Jan



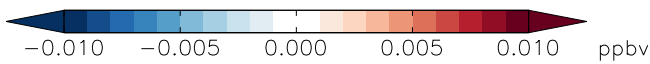
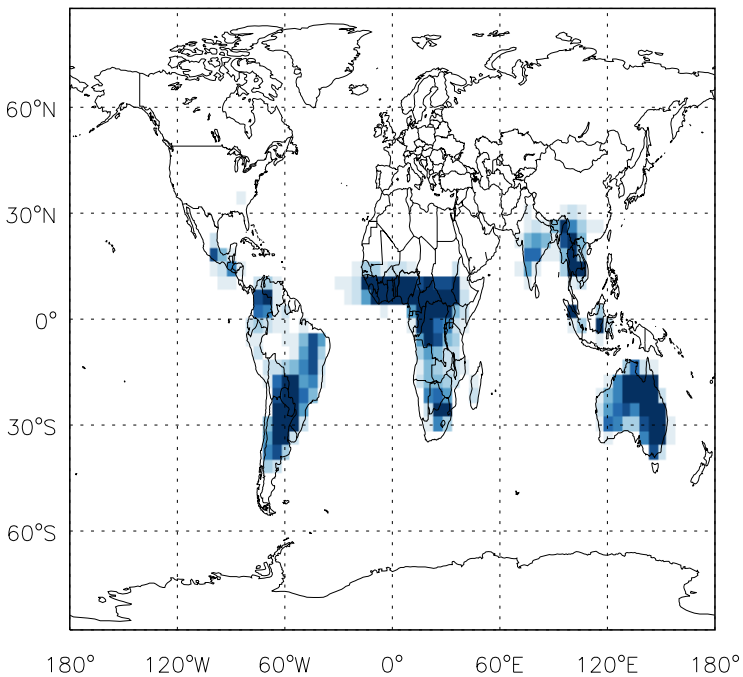
v11-01g-Run0 - v11-01f-geosfp-Run0

MACRN - Diff @ 500 hPa for Jan



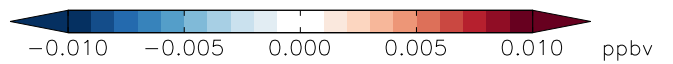
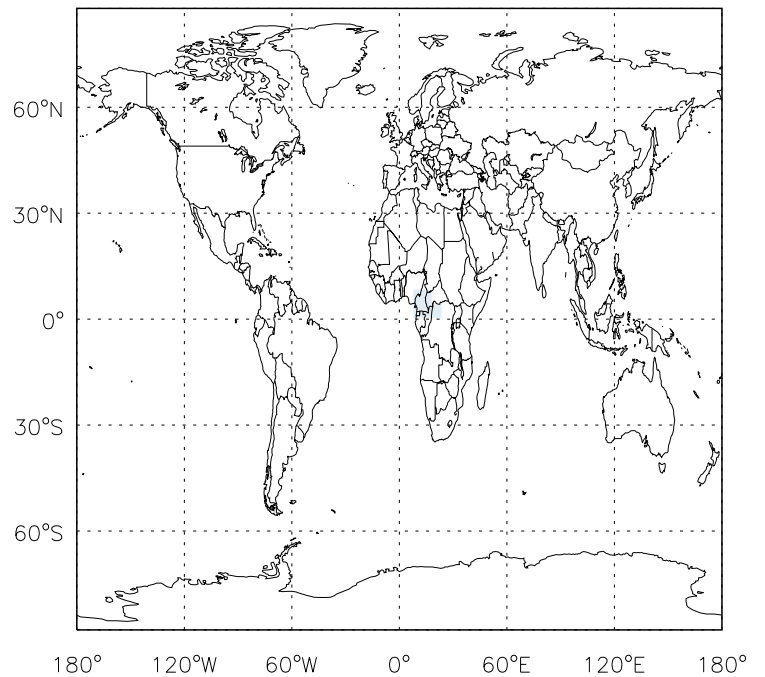
v11-01g-Run0 - v11-01d-Run1

MACRN - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

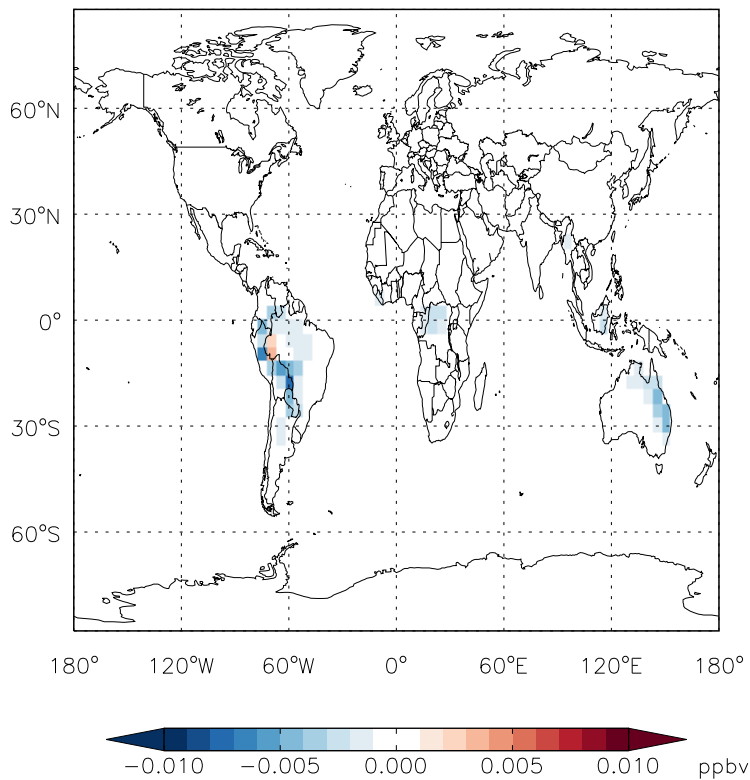
MACRN - Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

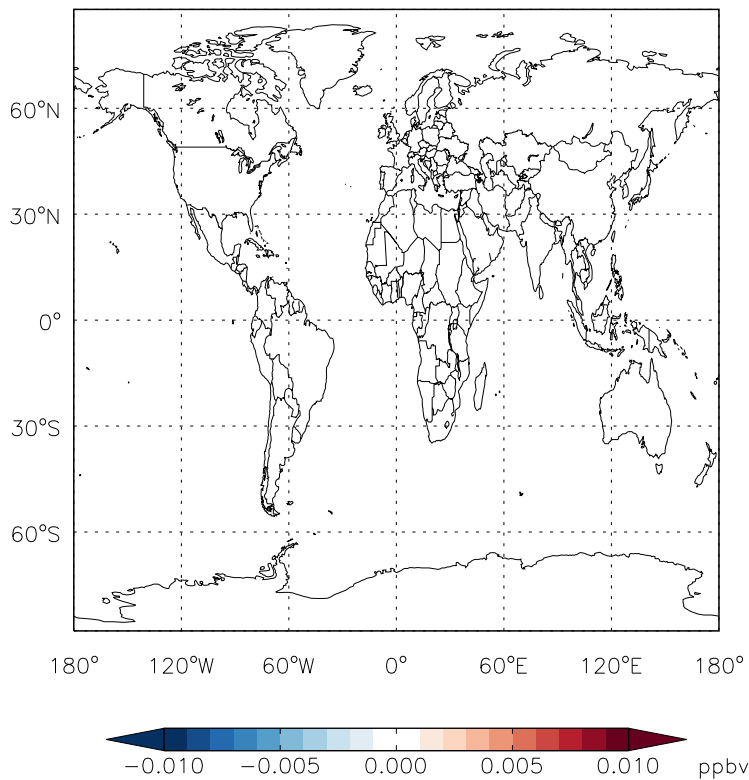
v11-01g-Run0 - v11-01f-geosfp-Run0

RIP - Diff @ Surface for Jan



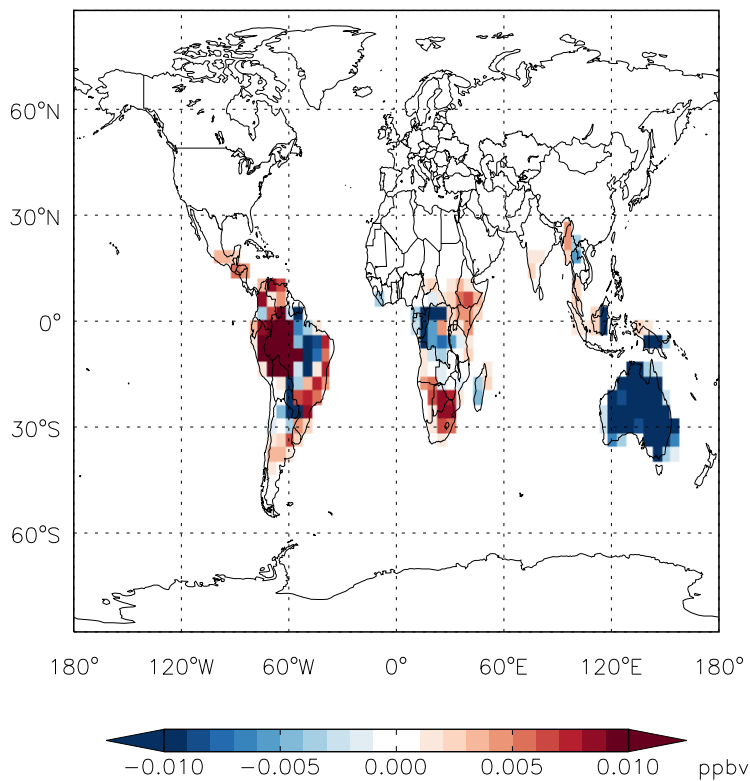
v11-01g-Run0 - v11-01f-geosfp-Run0

RIP- Diff @ 500 hPa for Jan



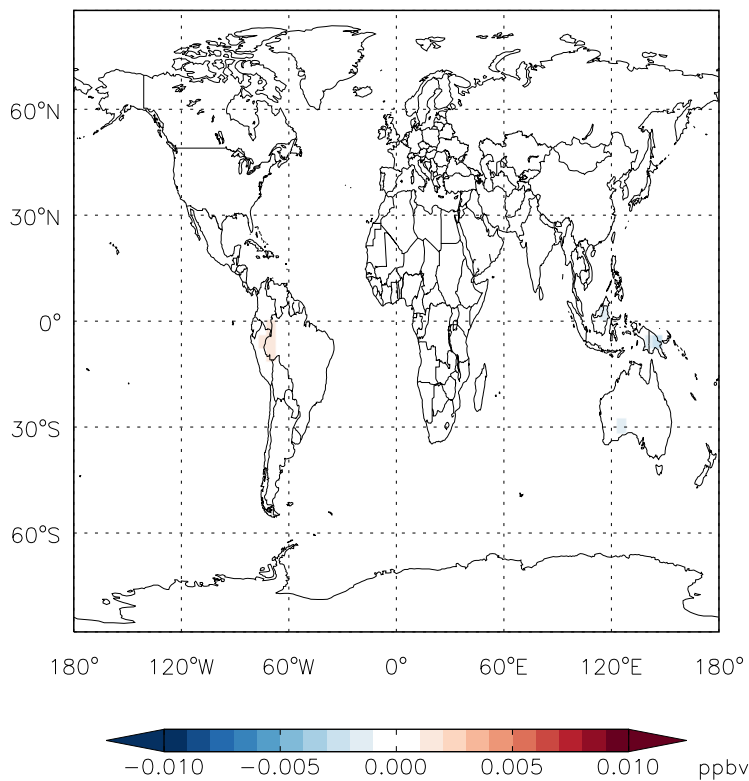
v11-01g-Run0 - v11-01d-Run1

RIP - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

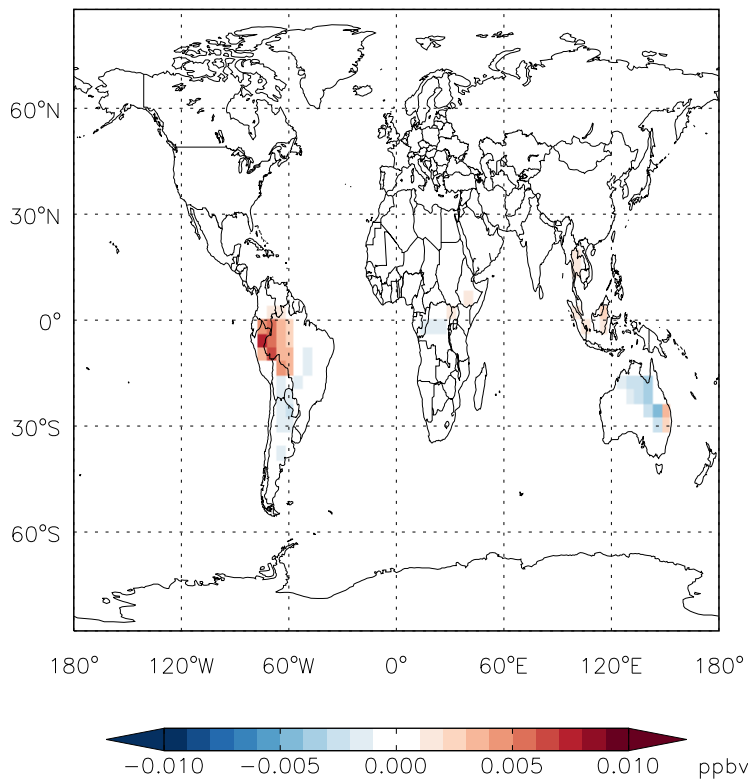
RIP- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

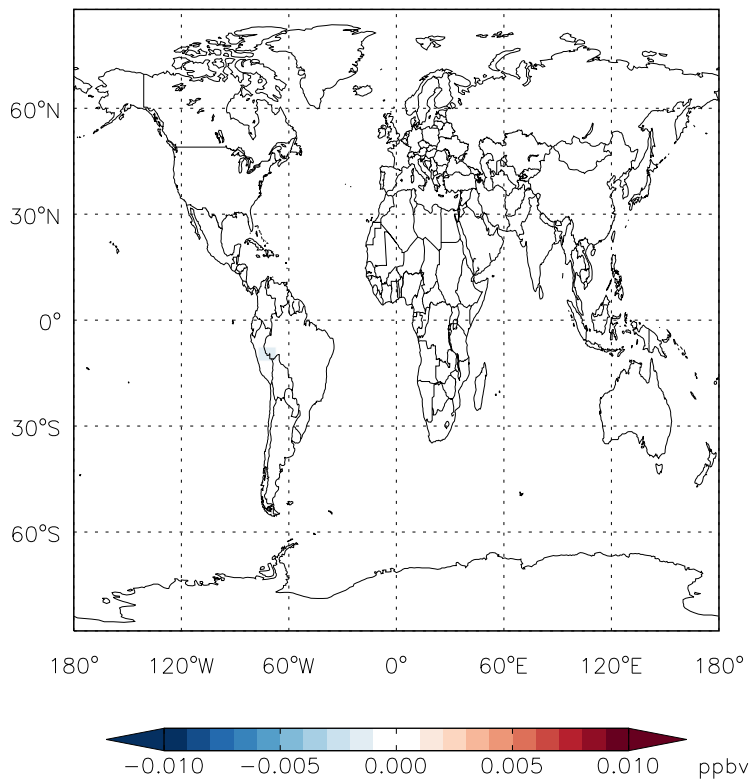
v11-01g-Run0 - v11-01f-geosfp-Run0

IEPOX - Diff @ Surface for Jan



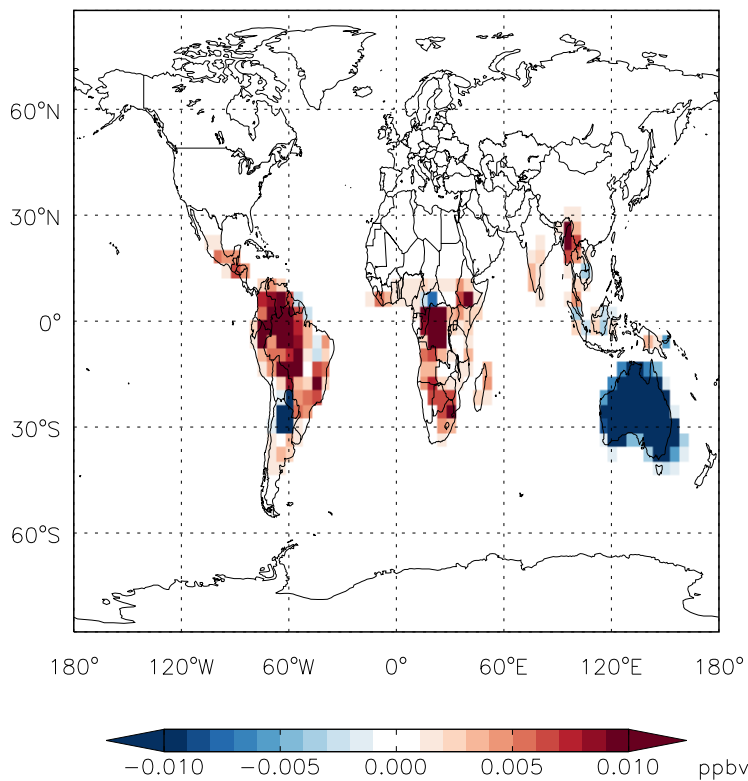
v11-01g-Run0 - v11-01f-geosfp-Run0

IEPOX- Diff @ 500 hPa for Jan



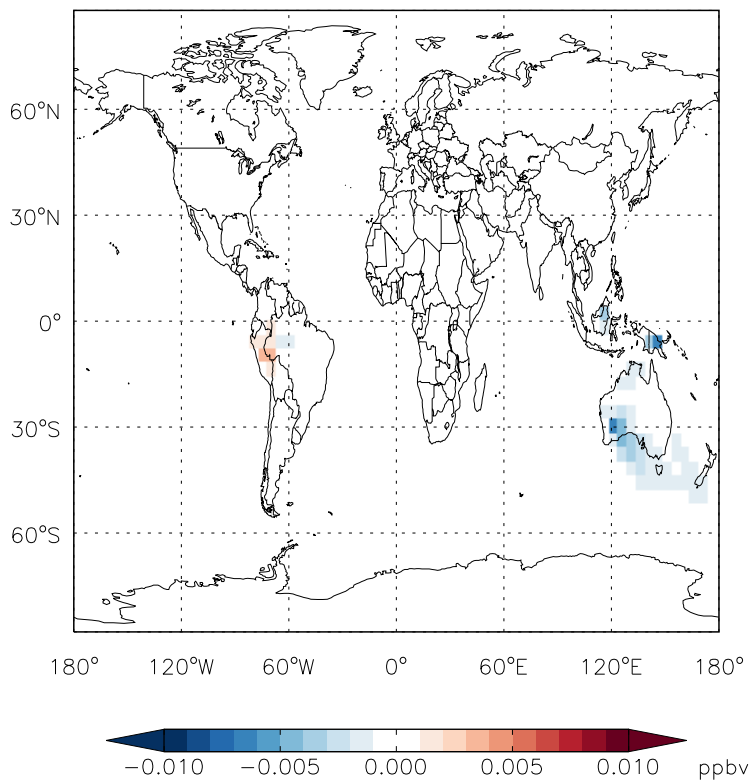
v11-01g-Run0 - v11-01d-Run1

IEPOX - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

IEPOX- Diff @ 500 hPa for Jan

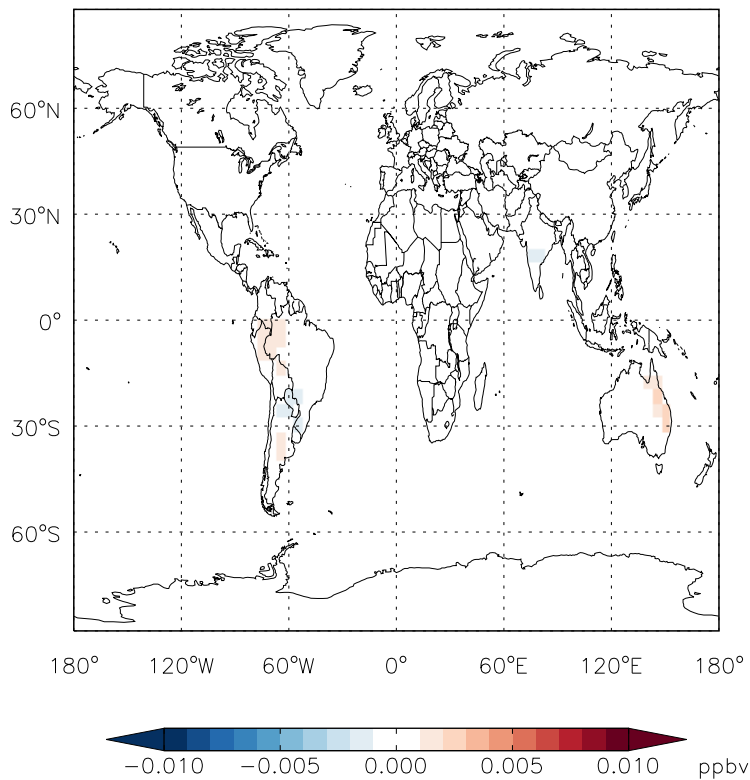




# GEOS-Chem Difference Maps at surface and 500 hPa

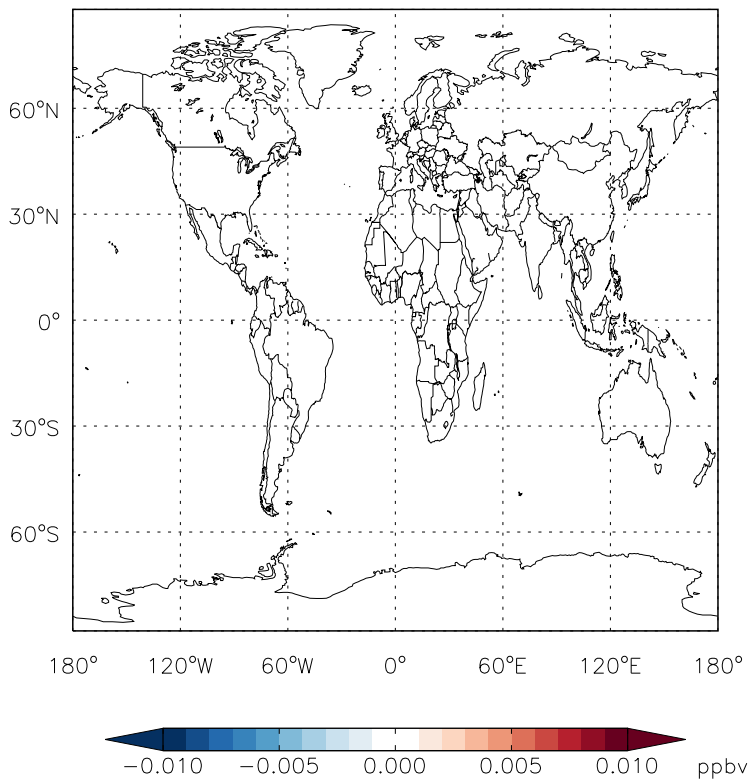
v11-01g-Run0 - v11-01f-geosfp-Run0

MAP - Diff @ Surface for Jan



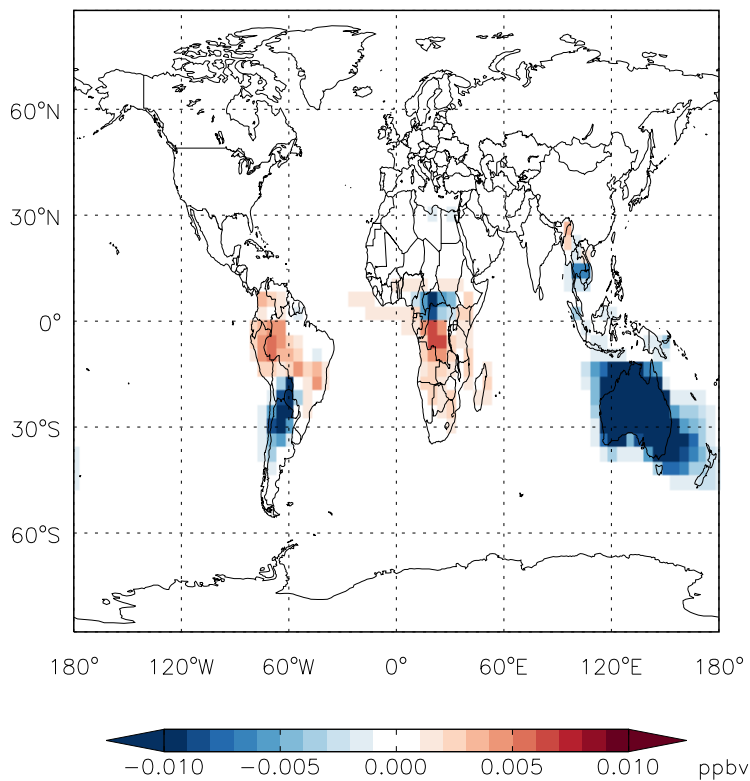
v11-01g-Run0 - v11-01f-geosfp-Run0

MAP - Diff @ 500 hPa for Jan



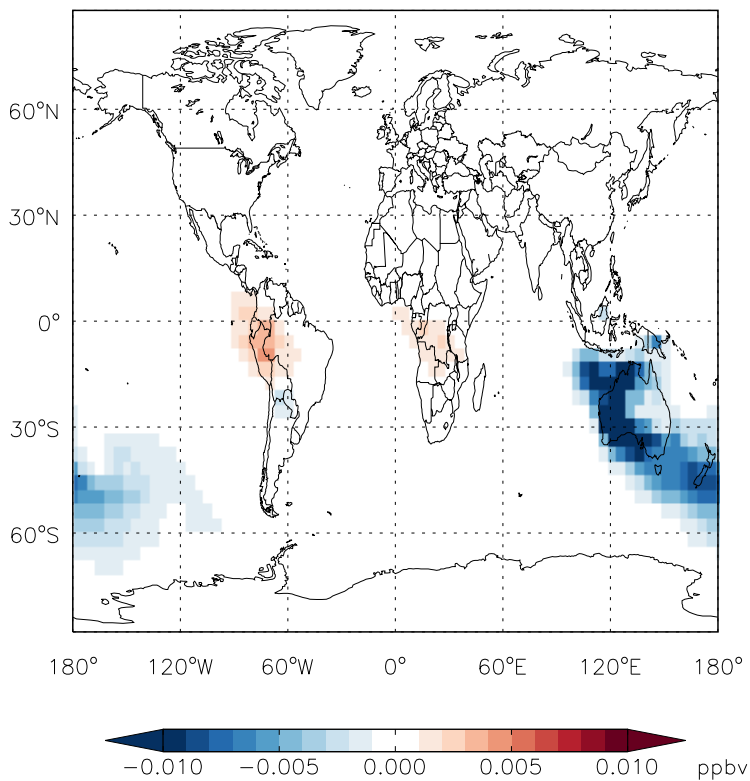
v11-01g-Run0 - v11-01d-Run1

MAP - Diff @ Surface for Jan



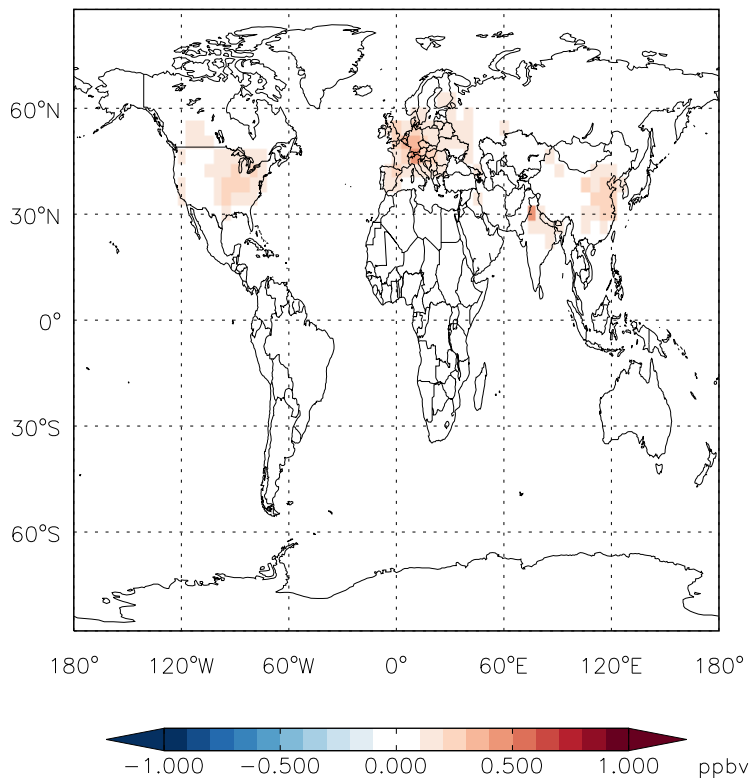
v11-01g-Run0 - v11-01d-Run1

MAP - Diff @ 500 hPa for Jan

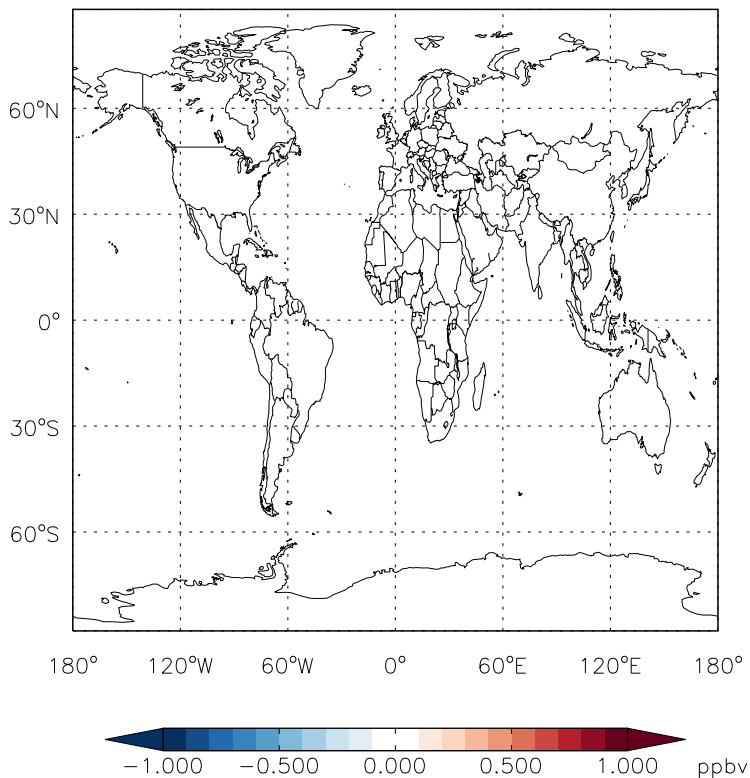


# GEOS-Chem Difference Maps at surface and 500 hPa

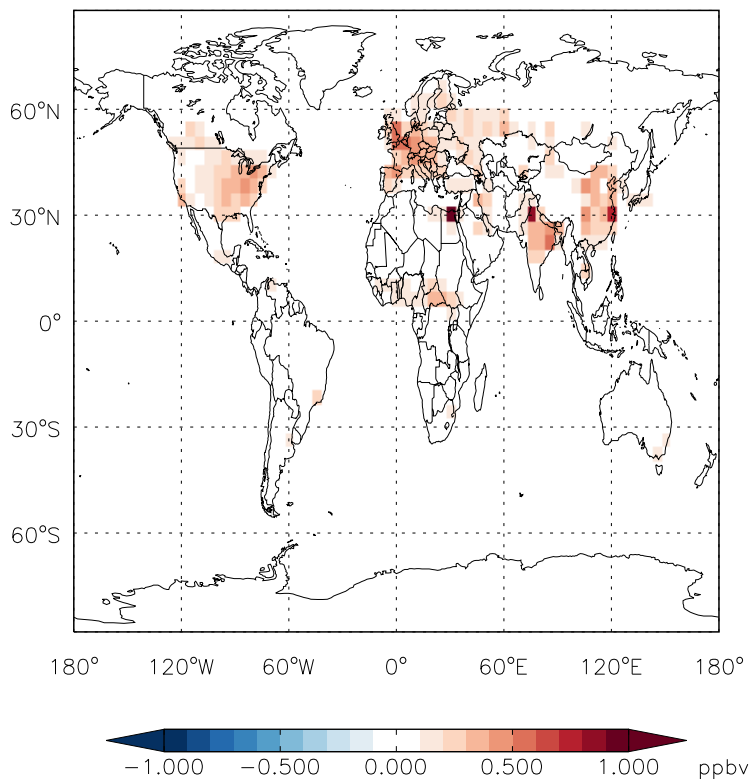
v11-01g-Run0 - v11-01f-geosfp-Run0  
N<sub>2</sub> - Diff @ Surface for Jan



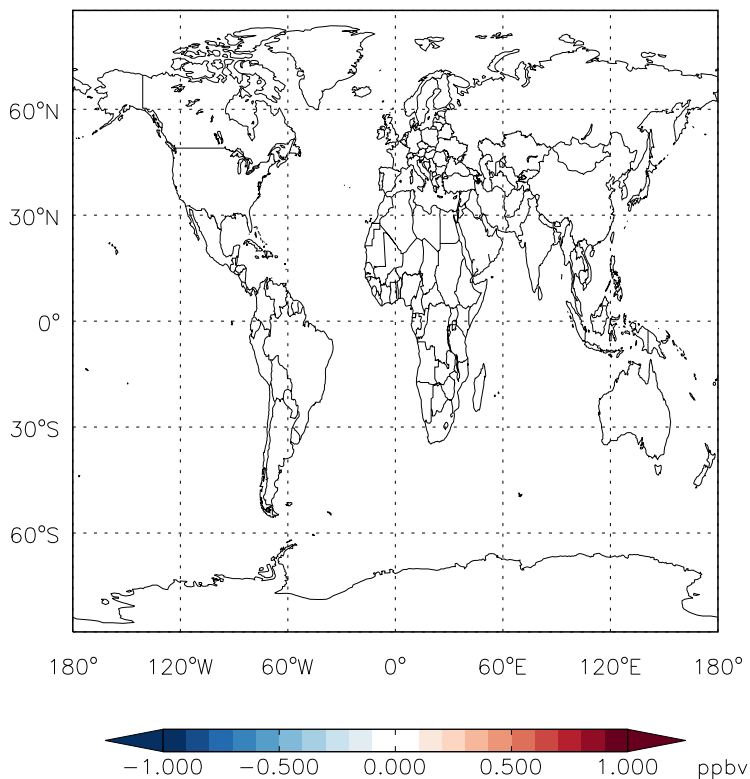
v11-01g-Run0 - v11-01f-geosfp-Run0  
N<sub>2</sub> - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
N<sub>2</sub> - Diff @ Surface for Jan



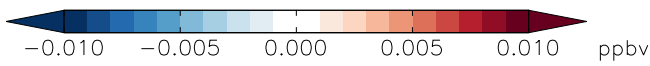
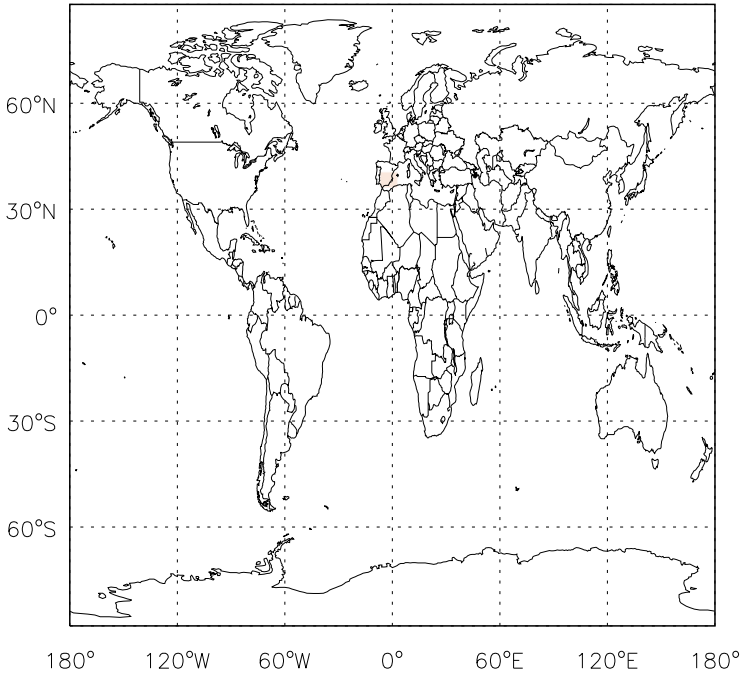
v11-01g-Run0 - v11-01d-Run1  
N<sub>2</sub> - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

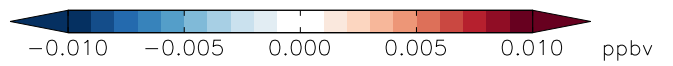
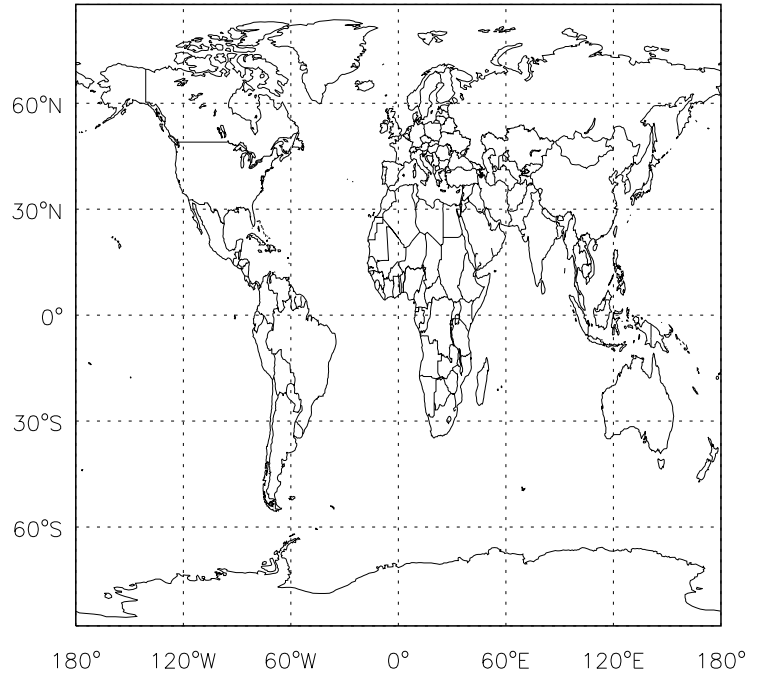
v11-01g-Run0 - v11-01f-geosfp-Run0

N<sub>2</sub>O - Diff @ Surface for Jan



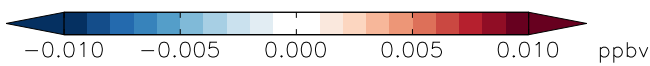
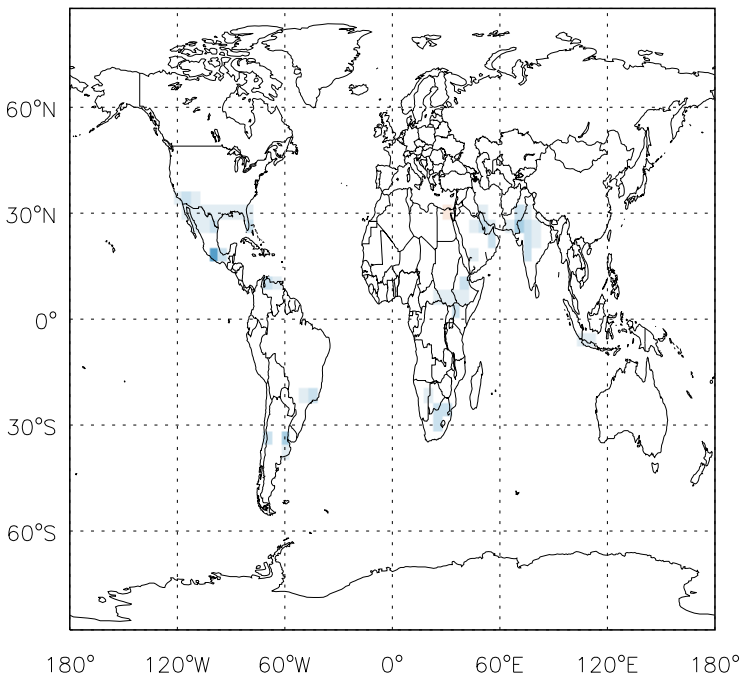
v11-01g-Run0 - v11-01f-geosfp-Run0

N<sub>2</sub>O - Diff @ 500 hPa for Jan



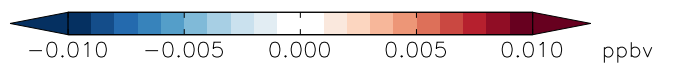
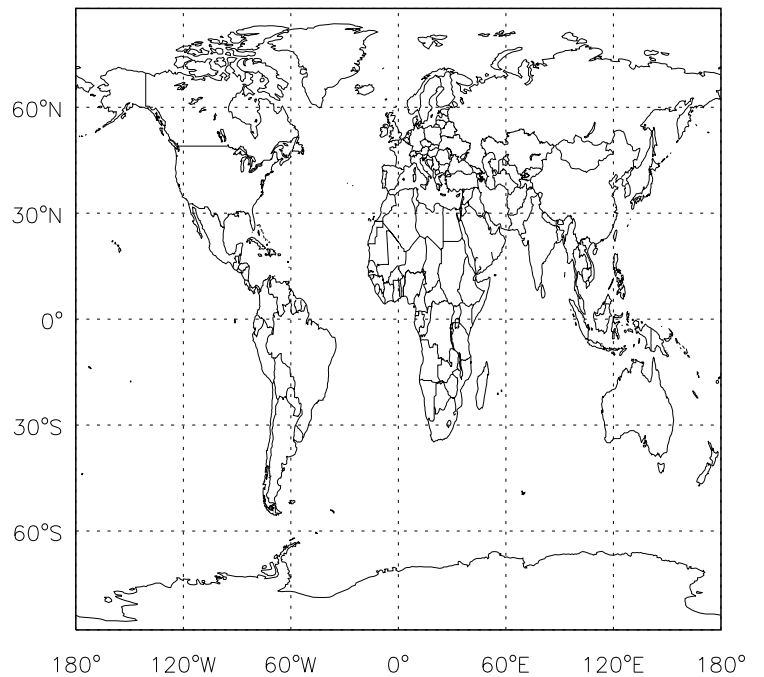
v11-01g-Run0 - v11-01d-Run1

N<sub>2</sub>O - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

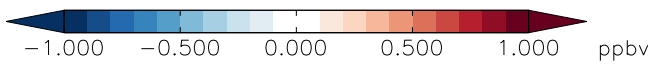
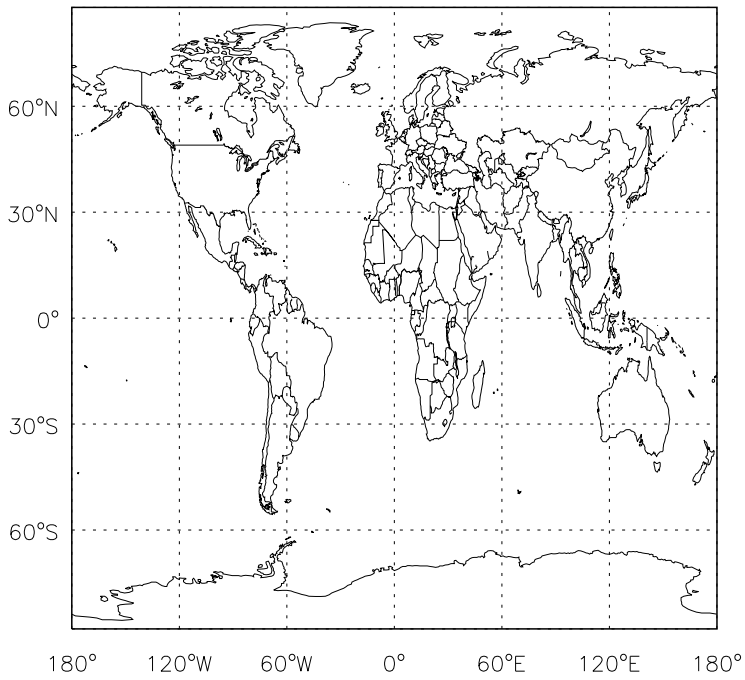
N<sub>2</sub>O - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

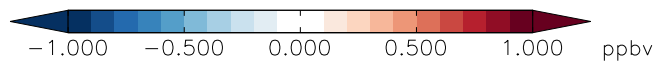
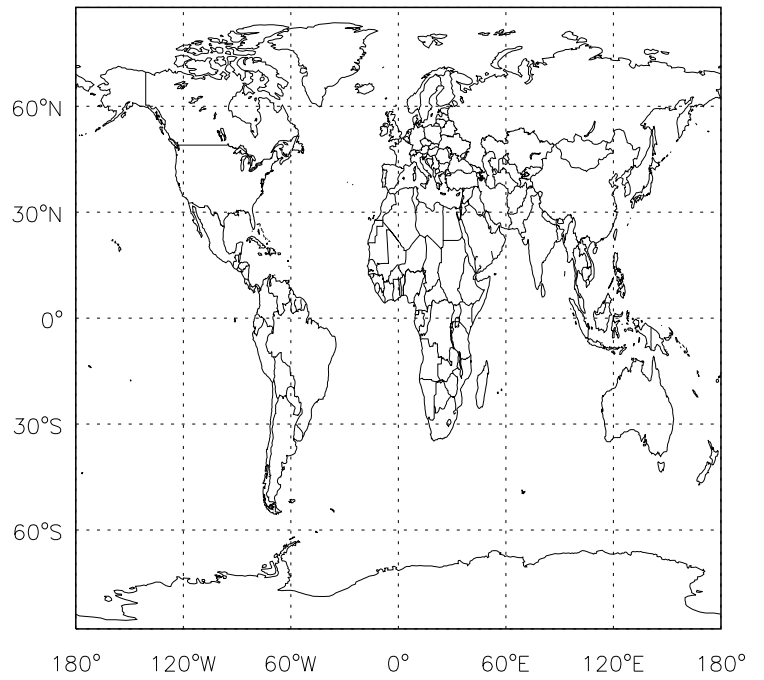
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>2</sub> - Diff @ Surface for Jan



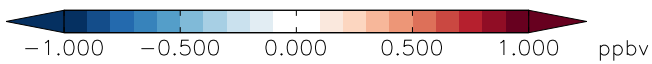
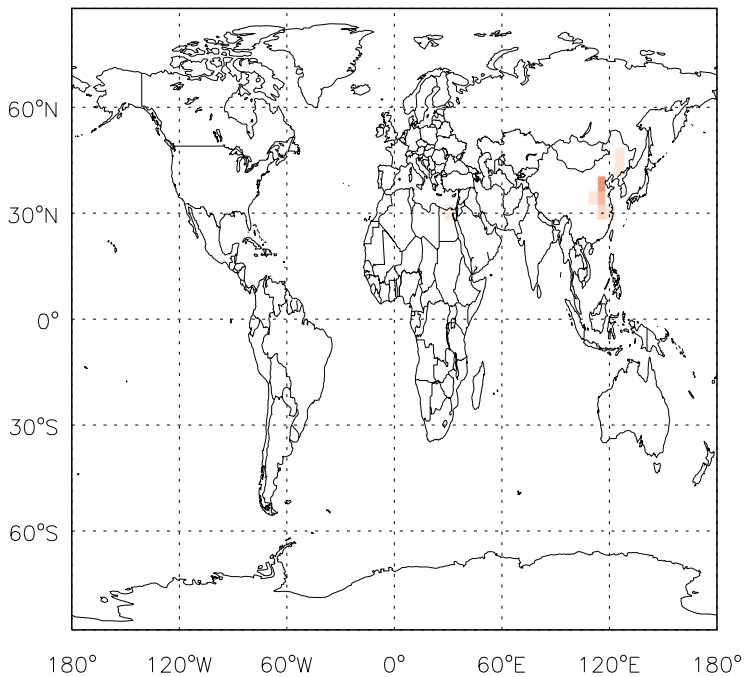
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>2</sub> - Diff @ 500 hPa for Jan



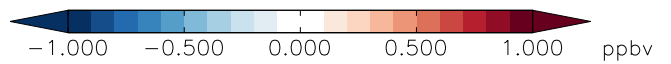
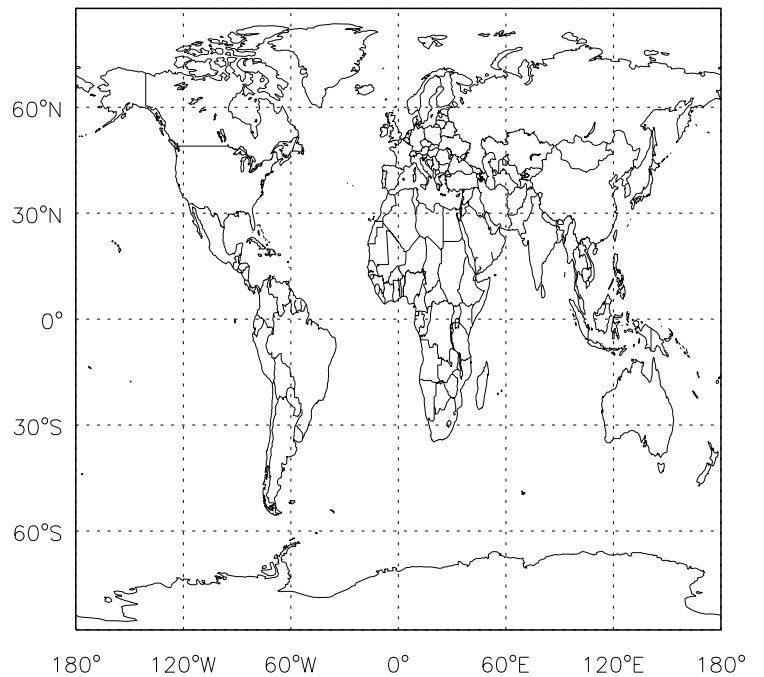
v11-01g-Run0 - v11-01d-Run1

HNO<sub>2</sub> - Diff @ Surface for Jan



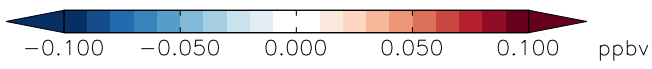
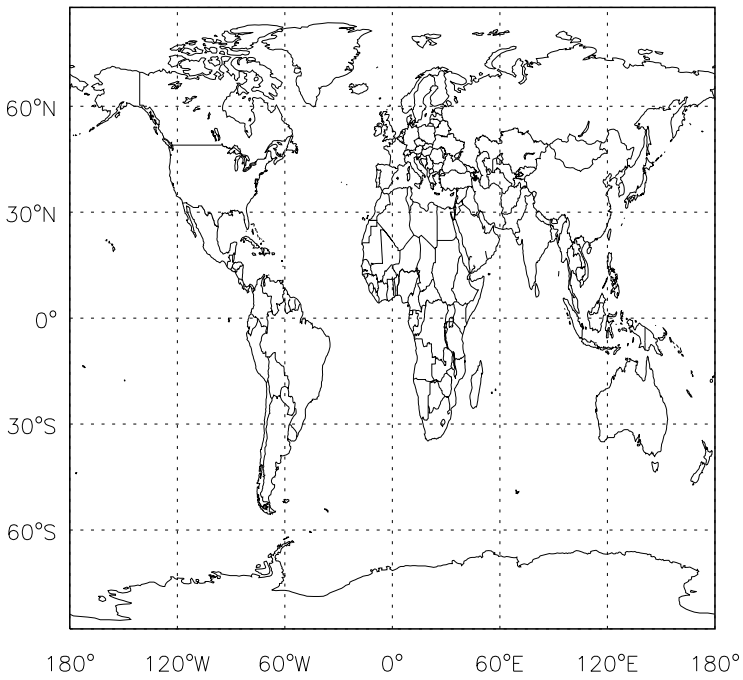
v11-01g-Run0 - v11-01d-Run1

HNO<sub>2</sub> - Diff @ 500 hPa for Jan

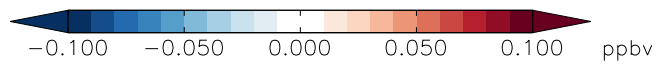
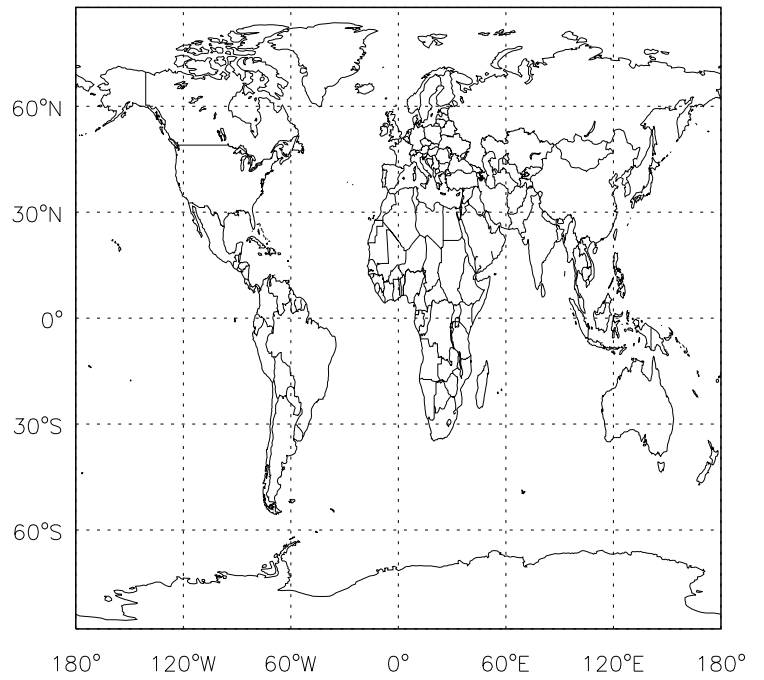


# GEOS-Chem Difference Maps at surface and 500 hPa

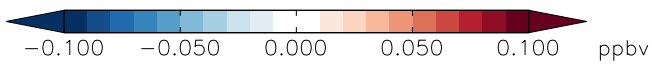
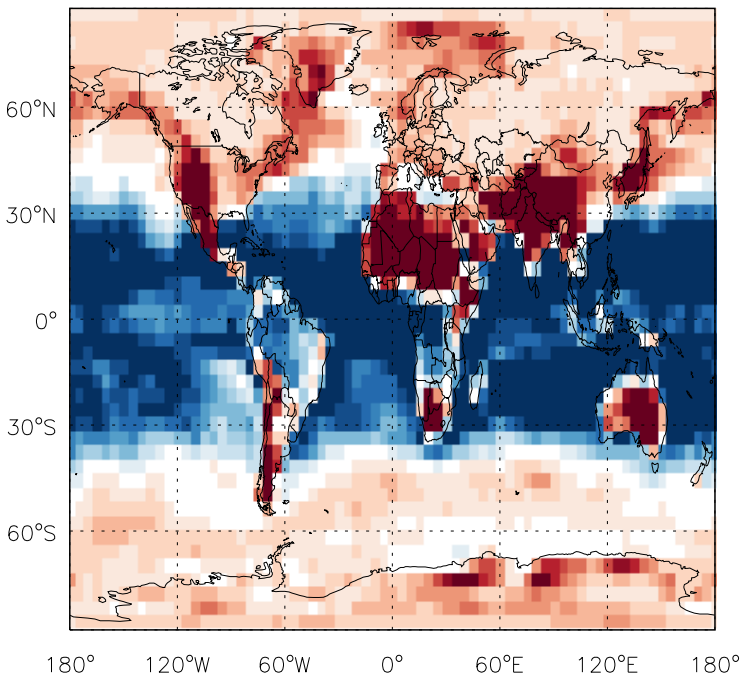
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O - Diff @ Surface for Jan



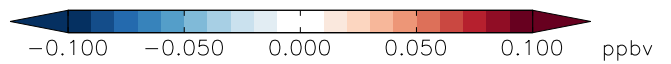
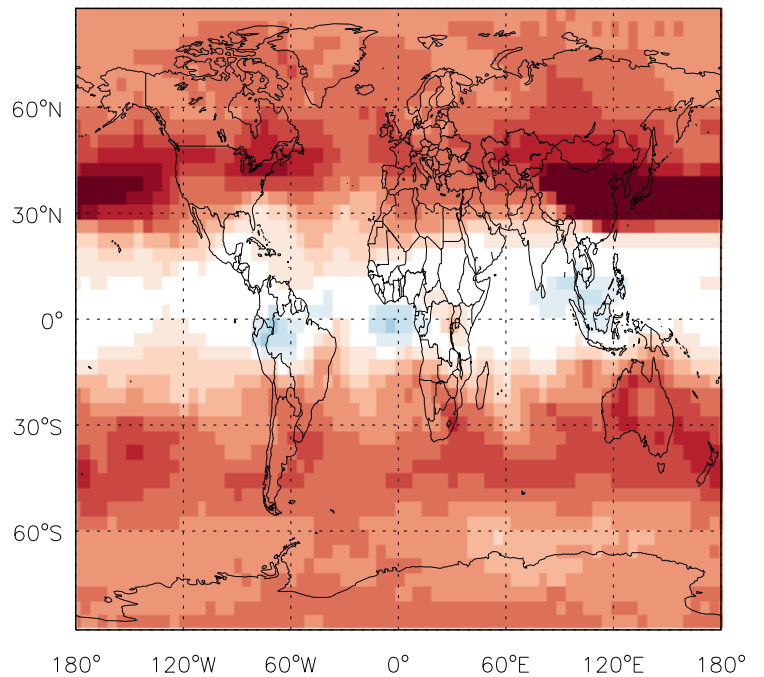
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
N2O - Diff @ Surface for Jan



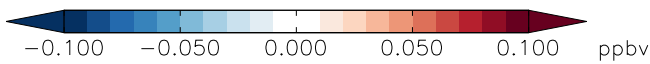
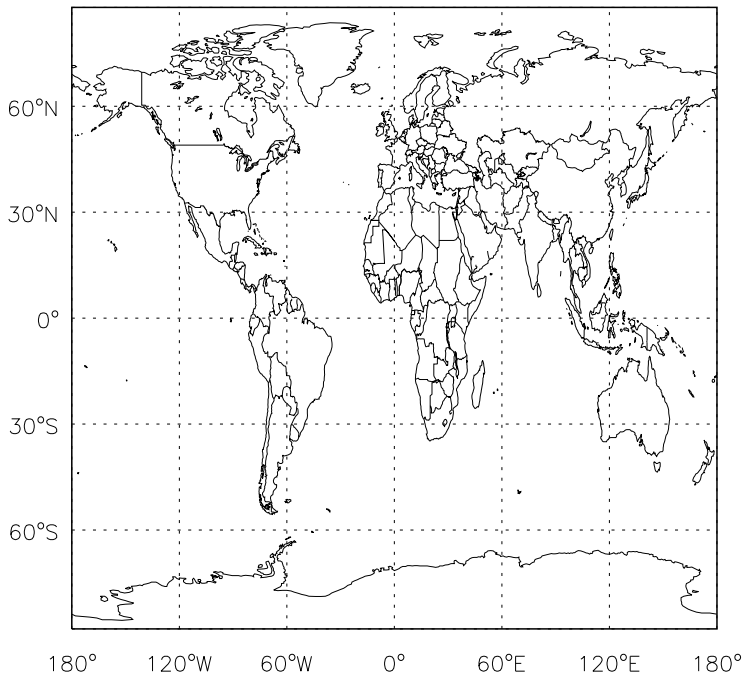
v11-01g-Run0 - v11-01d-Run1  
N2O - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

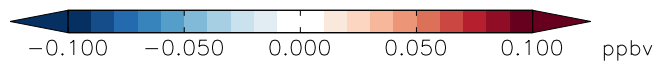
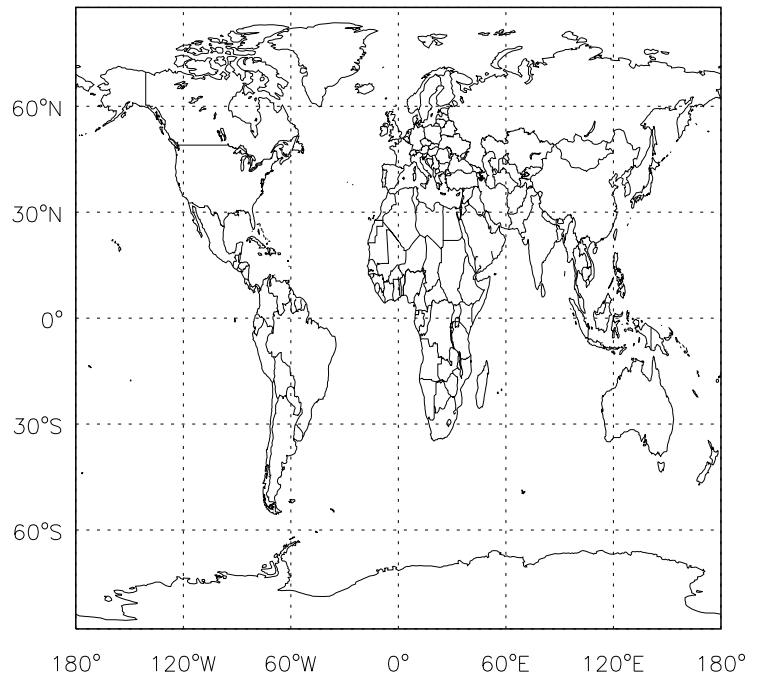
v11-01g-Run0 - v11-01f-geosfp-Run0

OCS - Diff @ Surface for Jan



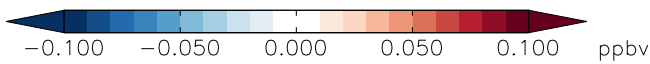
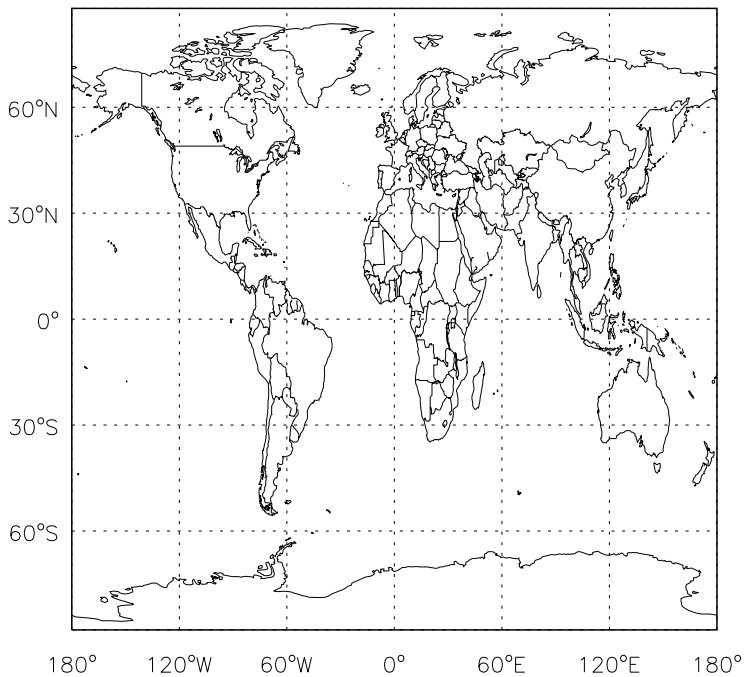
v11-01g-Run0 - v11-01f-geosfp-Run0

OCS - Diff @ 500 hPa for Jan



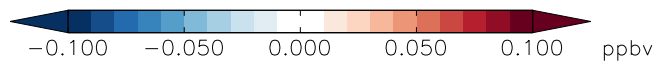
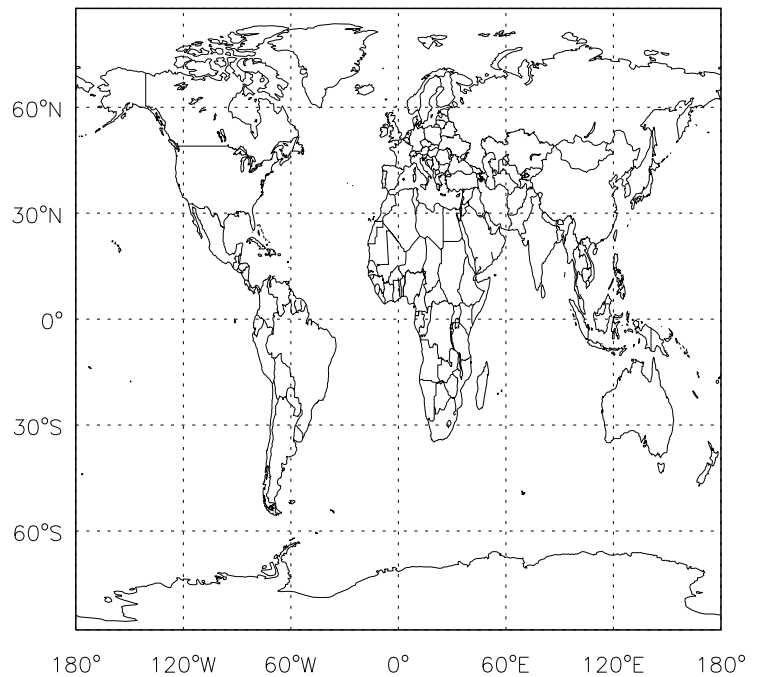
v11-01g-Run0 - v11-01d-Run1

OCS - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

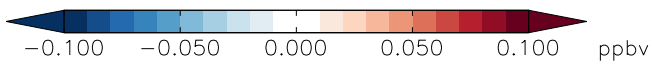
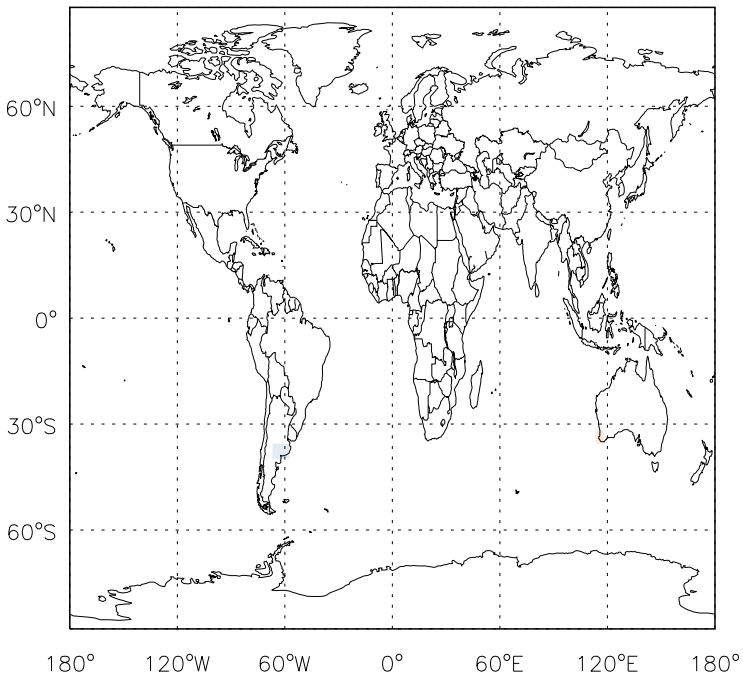
OCS - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

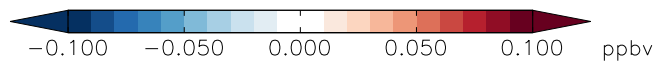
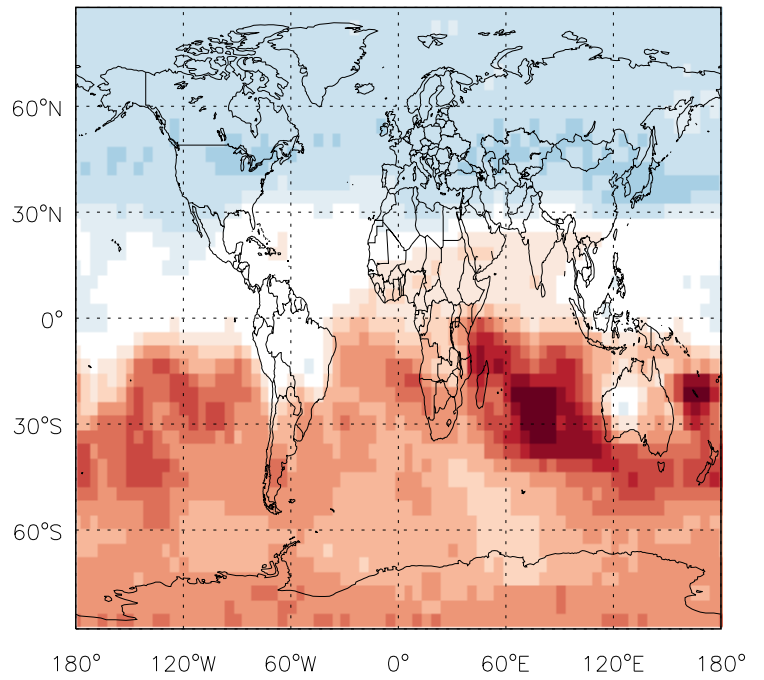
v11-01g-Run0 - v11-01f-geosfp-Run0

CH4 - Diff @ Surface for Jan



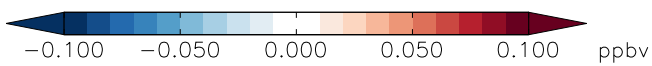
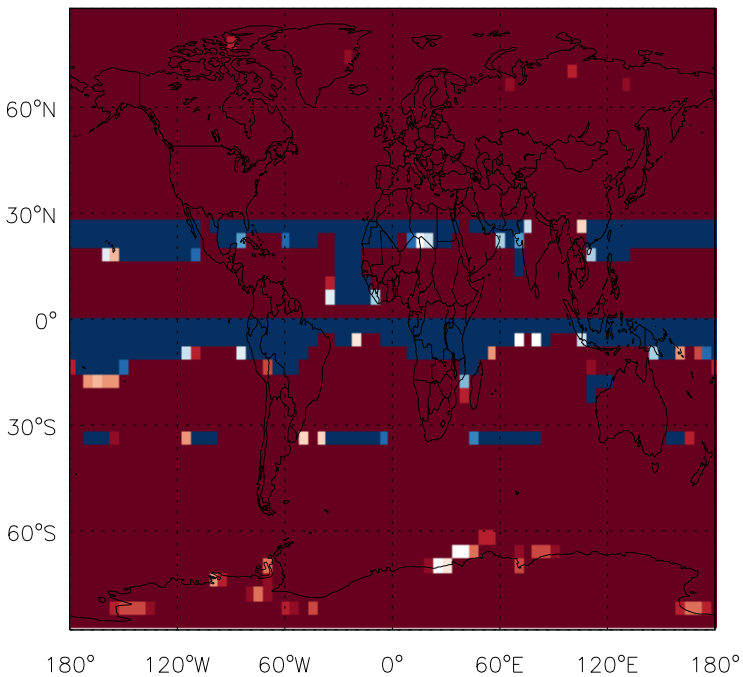
v11-01g-Run0 - v11-01f-geosfp-Run0

CH4- Diff @ 500 hPa for Jan



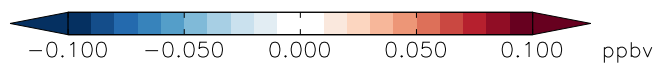
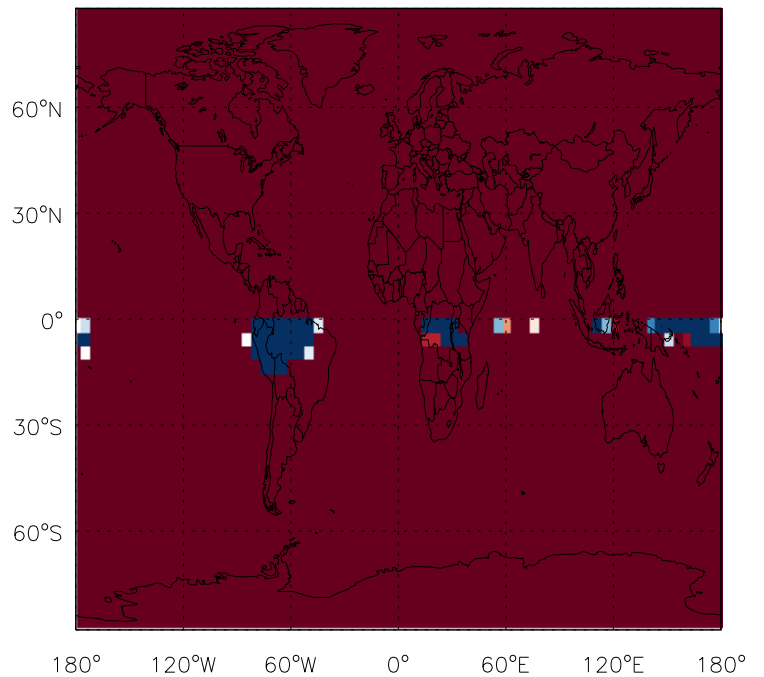
v11-01g-Run0 - v11-01d-Run1

CH4 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

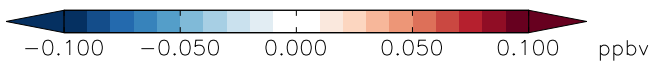
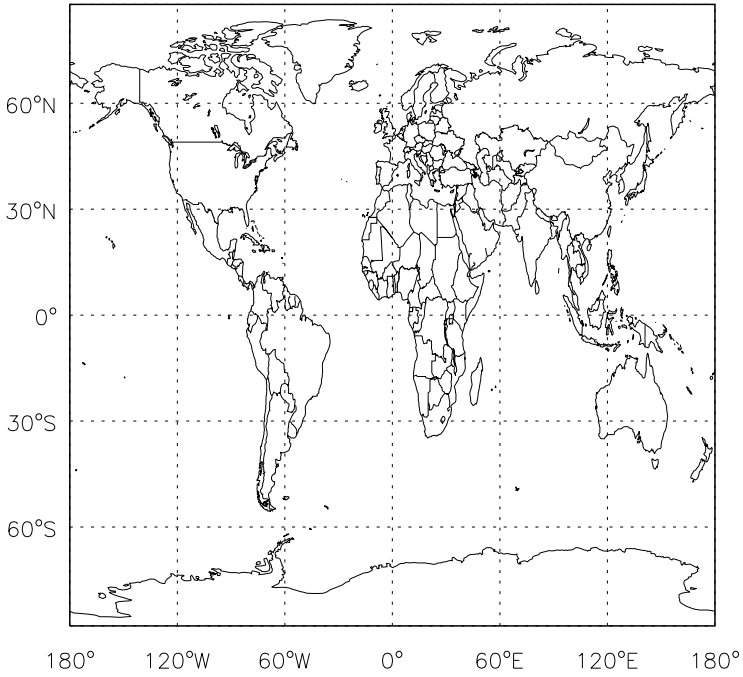
CH4- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

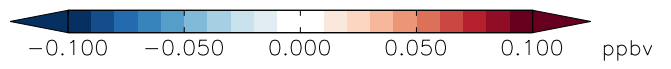
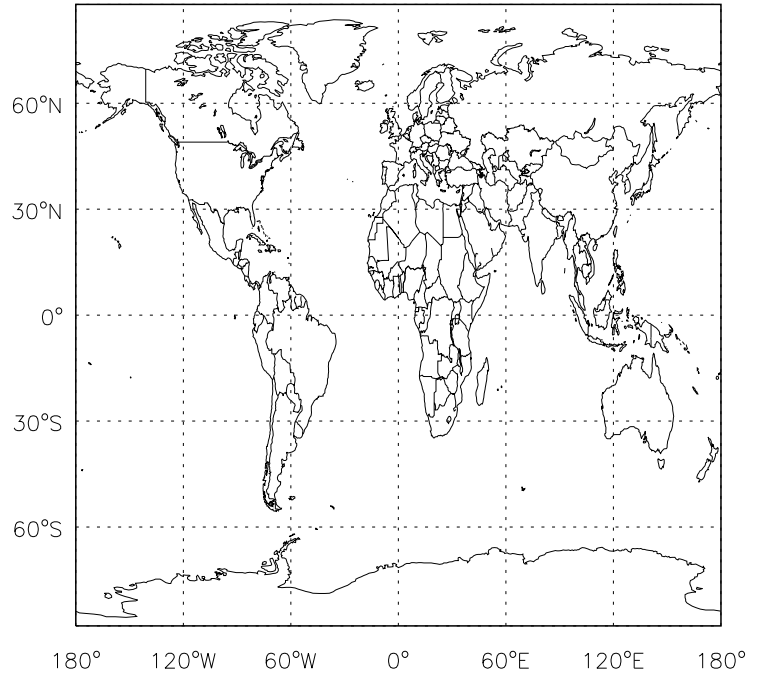
v11-01g-Run0 - v11-01f-geosfp-Run0

BrCl - Diff @ Surface for Jan



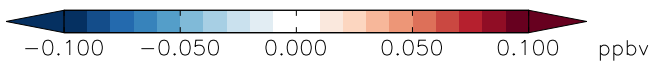
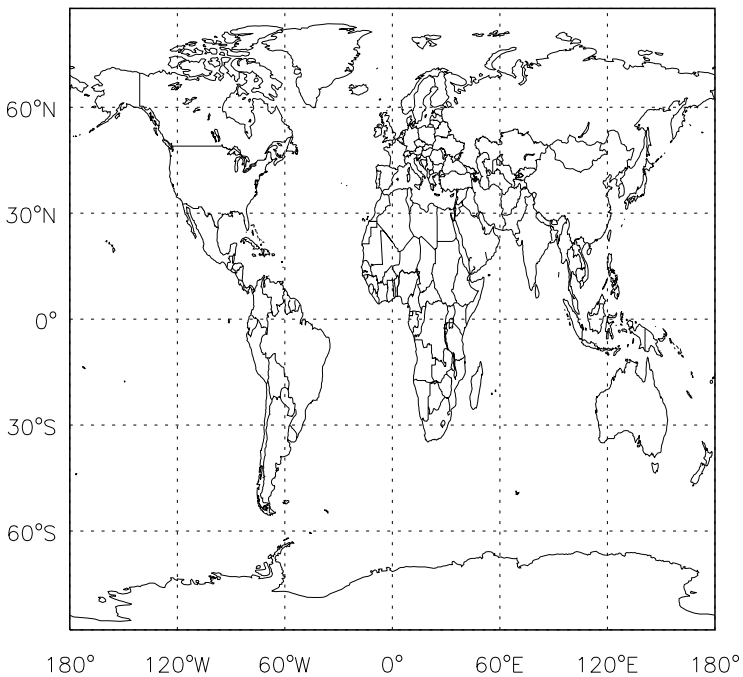
v11-01g-Run0 - v11-01f-geosfp-Run0

BrCl- Diff @ 500 hPa for Jan



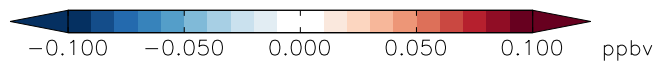
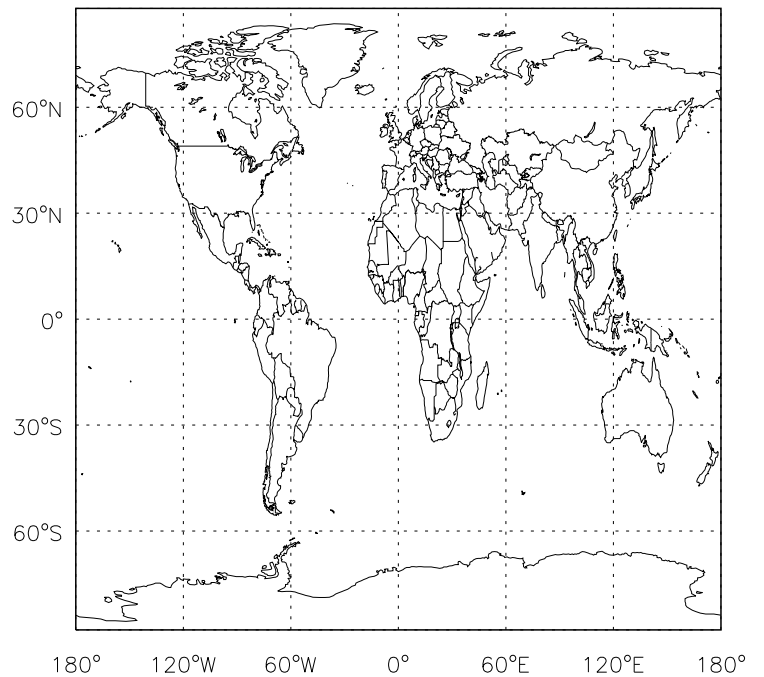
v11-01g-Run0 - v11-01d-Run1

BrCl - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

BrCl- Diff @ 500 hPa for Jan

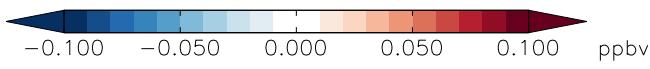
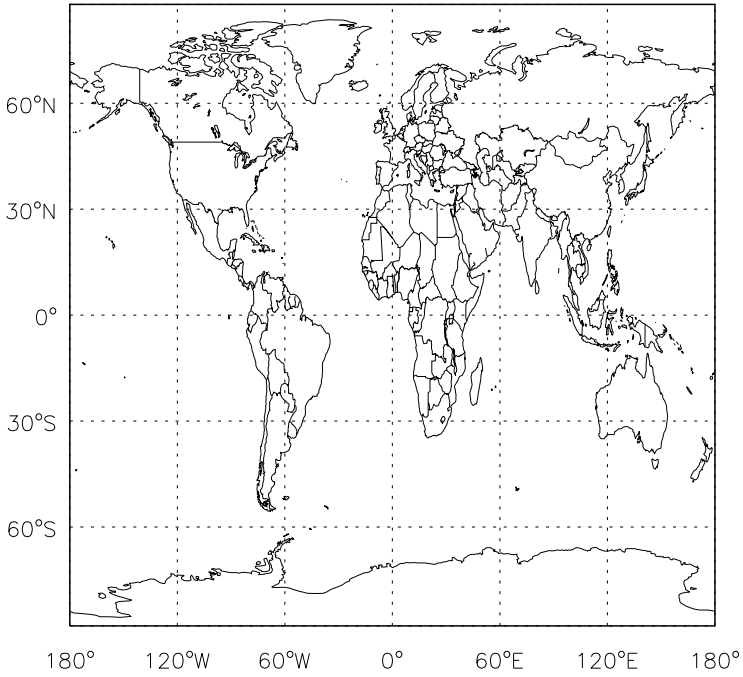




GEOS-Chem Difference Maps at surface and 500 hPa

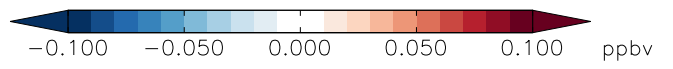
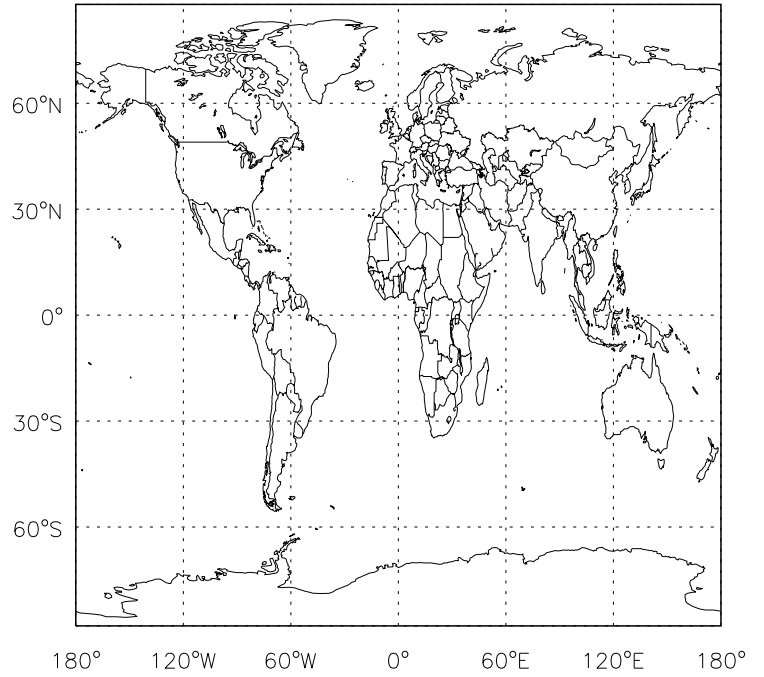
v11-01g-Run0 - v11-01f-geosfp-Run0

HCl - Diff @ Surface for Jan



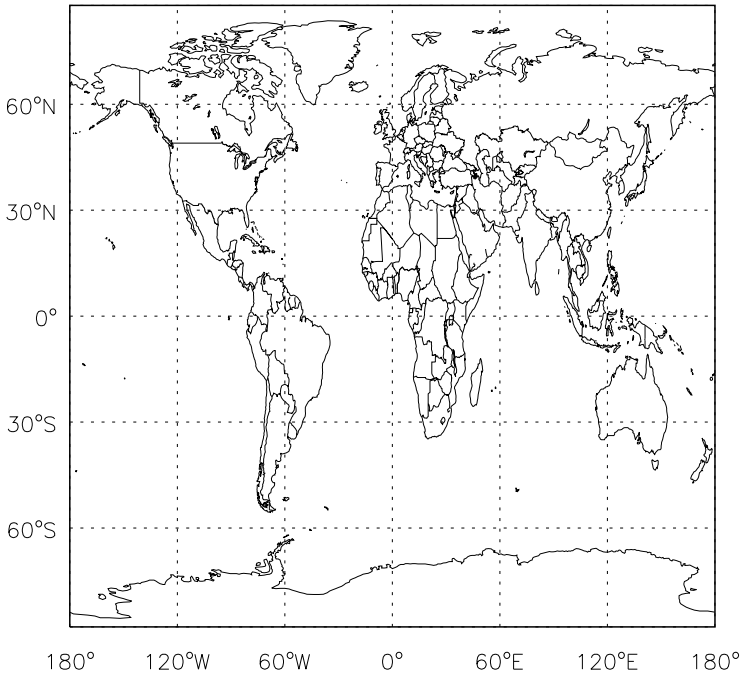
v11-01g-Run0 - v11-01f-geosfp-Run0

HCl - Diff @ 500 hPa for Jan



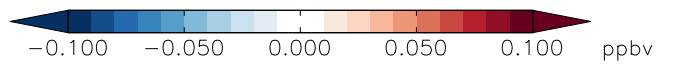
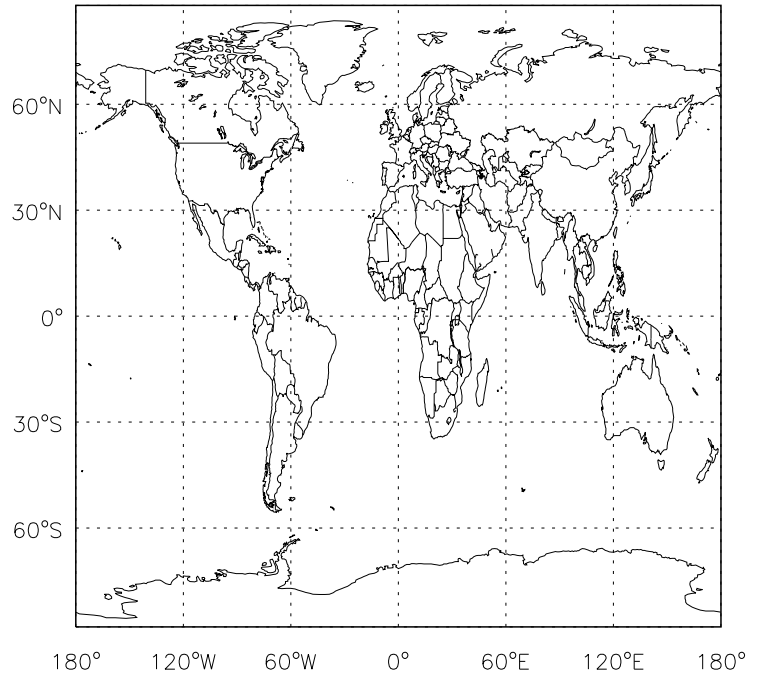
v11-01g-Run0 - v11-01d-Run1

HCl - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

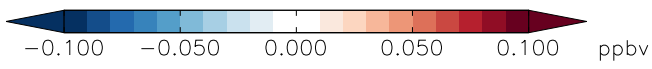
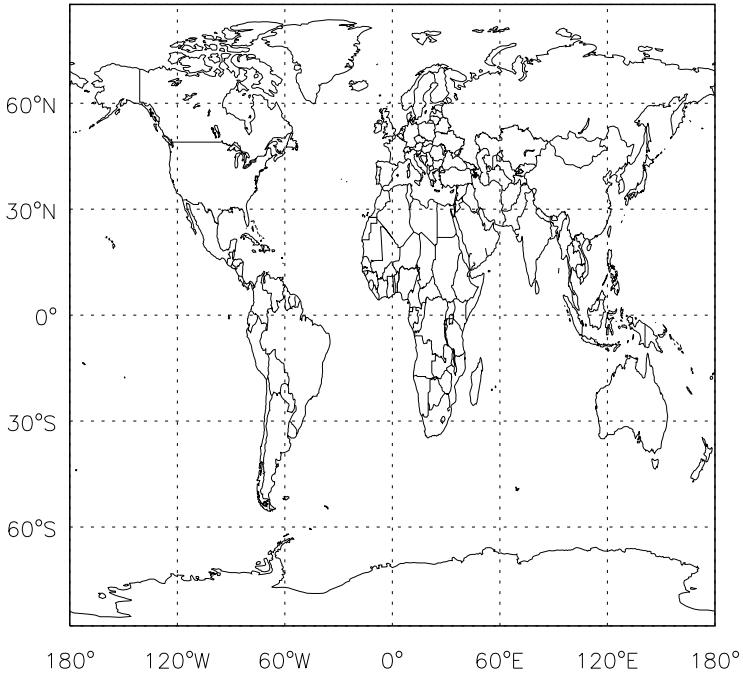
HCl - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

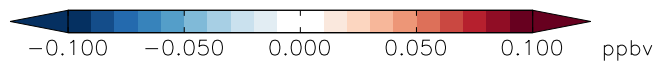
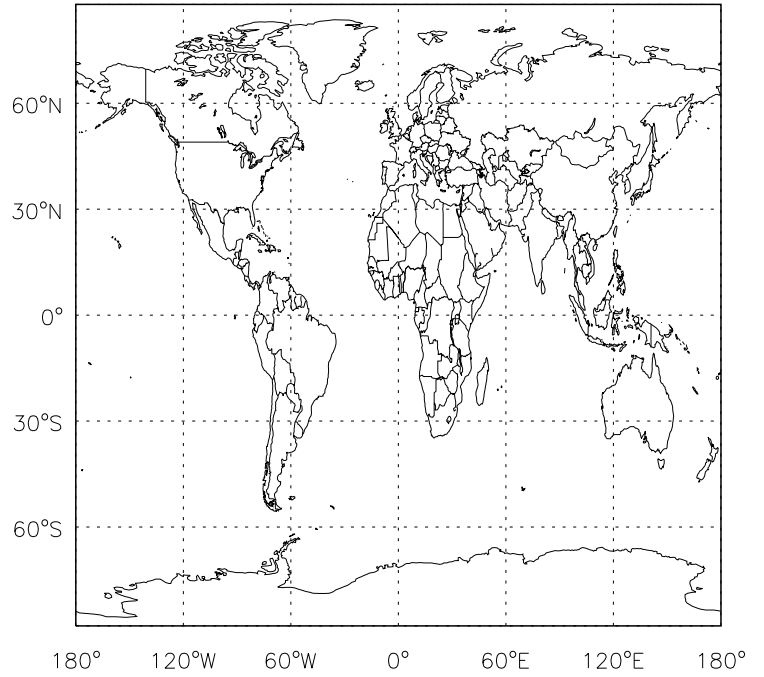
v11-01g-Run0 - v11-01f-geosfp-Run0

CCI4 - Diff @ Surface for Jan



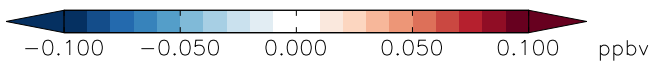
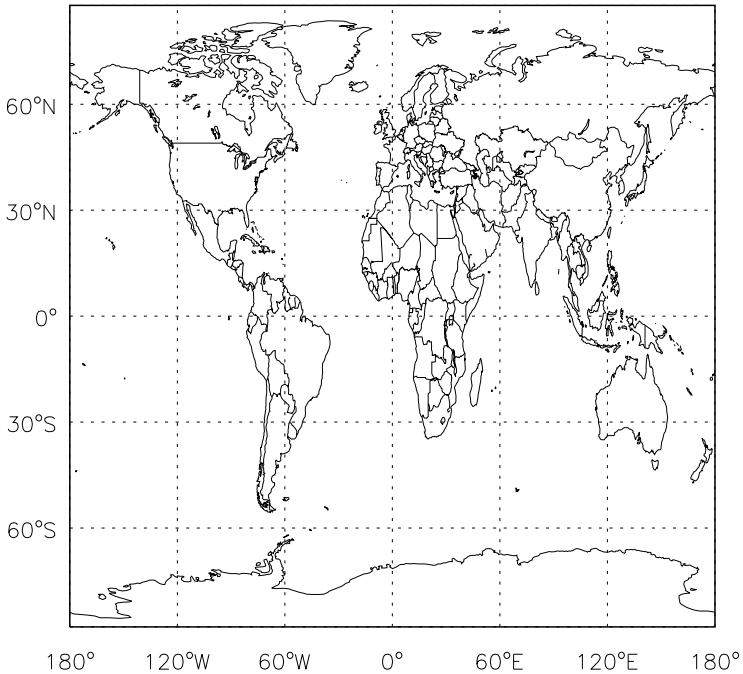
v11-01g-Run0 - v11-01f-geosfp-Run0

CCI4- Diff @ 500 hPa for Jan



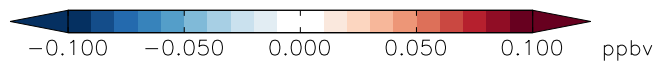
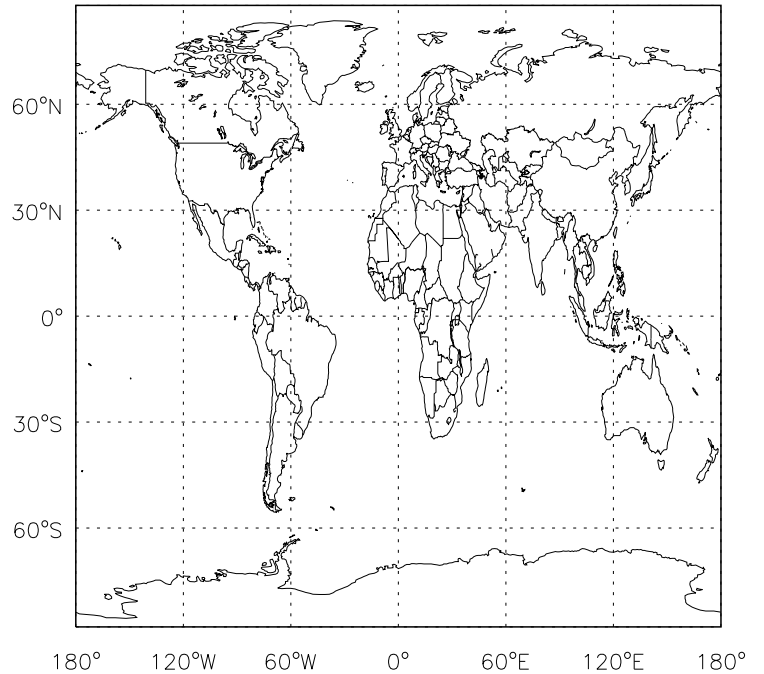
v11-01g-Run0 - v11-01d-Run1

CCI4 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

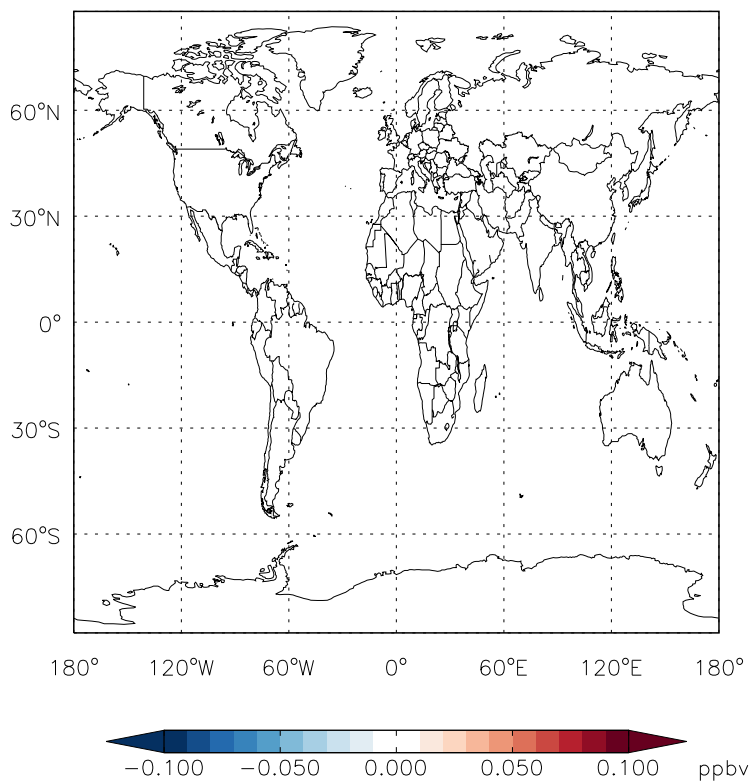
CCI4- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

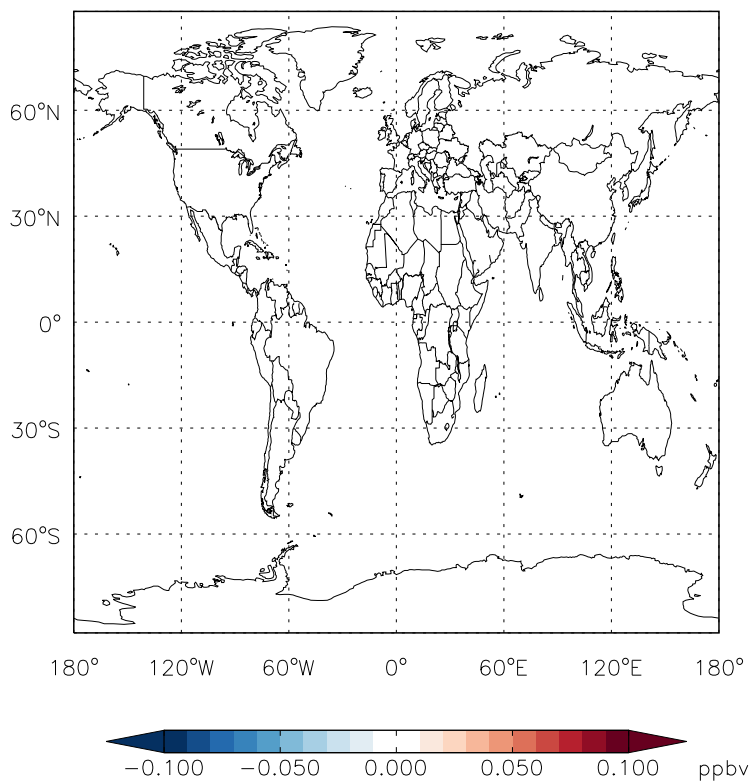
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>3</sub>Cl - Diff @ Surface for Jan



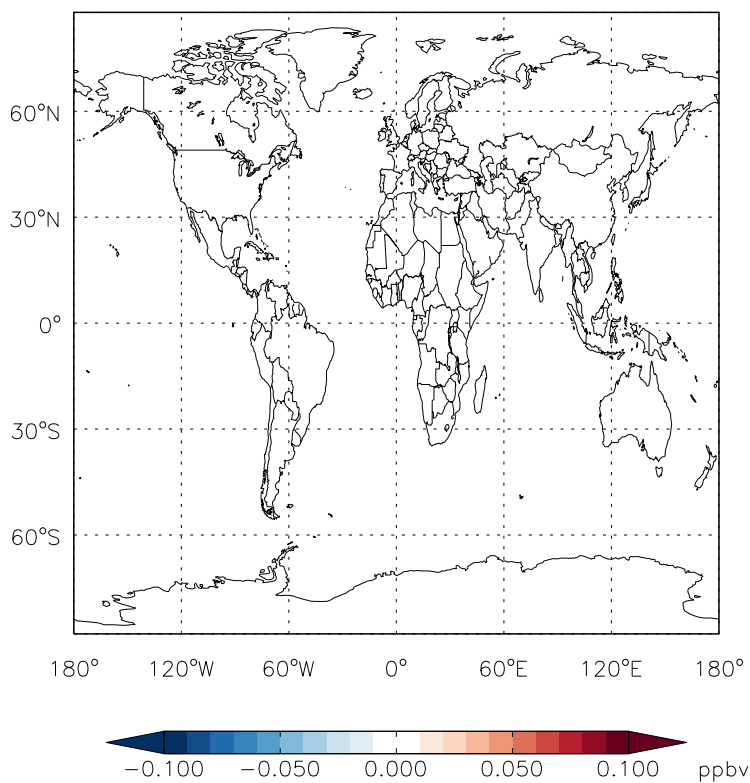
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>3</sub>Cl - Diff @ 500 hPa for Jan



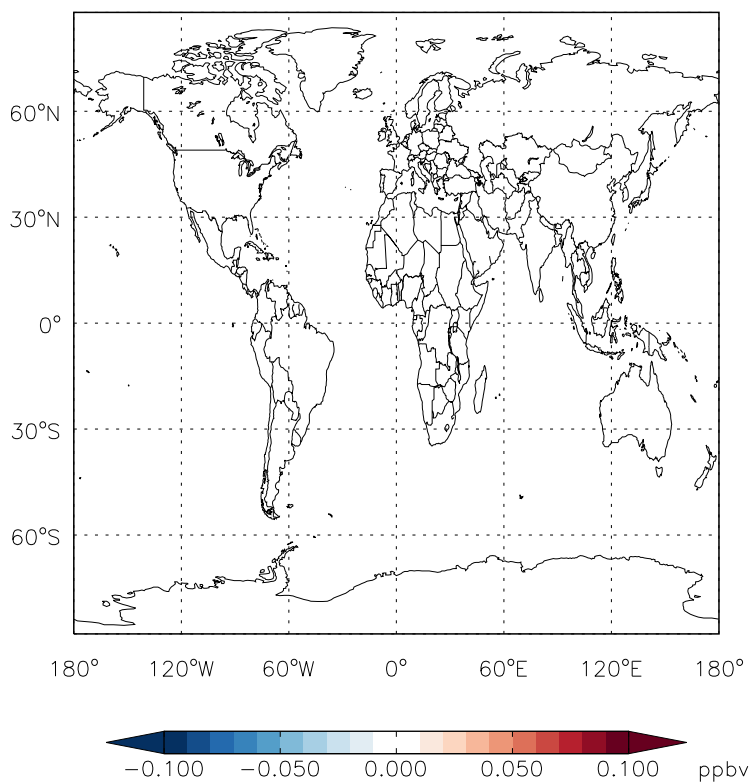
v11-01g-Run0 - v11-01d-Run1

CH<sub>3</sub>Cl - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

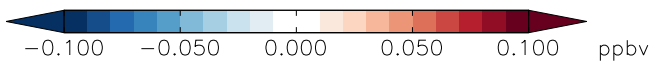
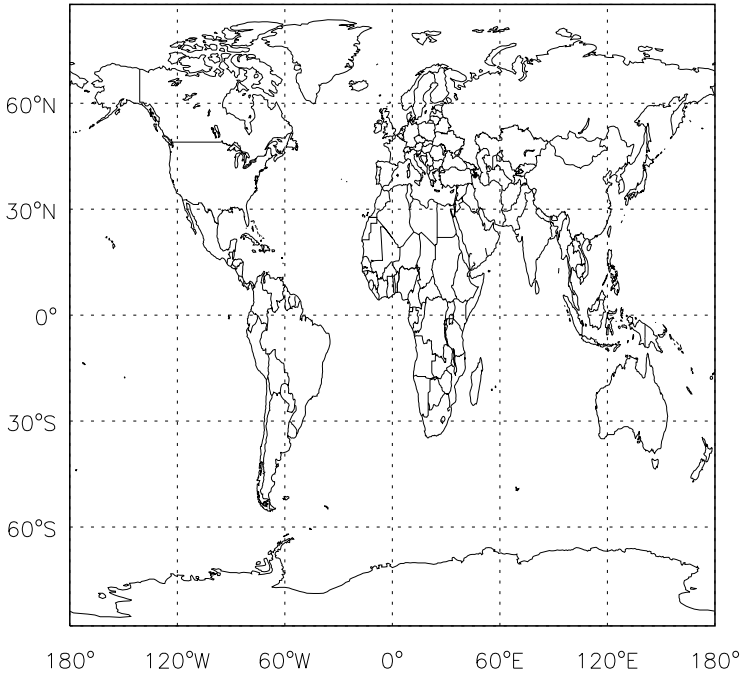
CH<sub>3</sub>Cl - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

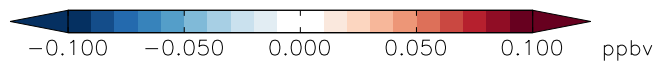
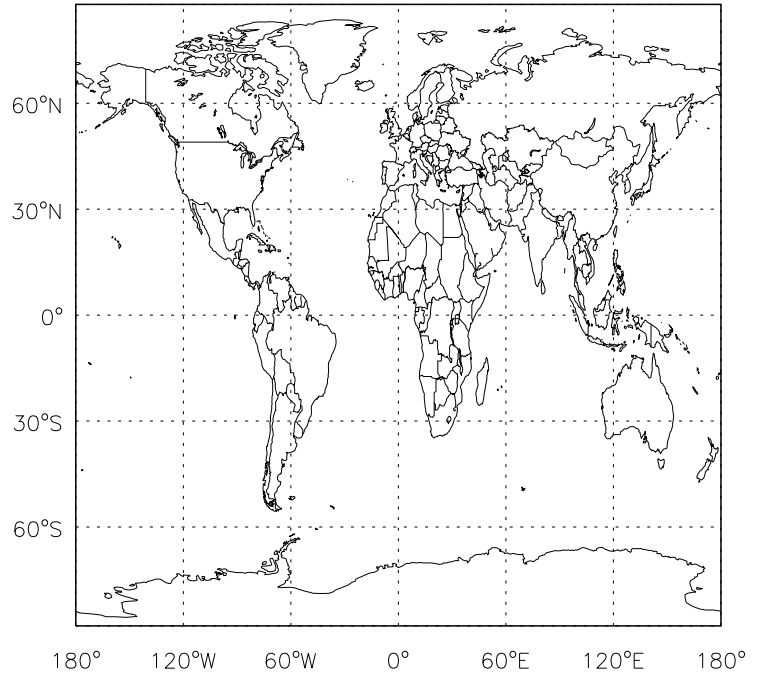
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>3</sub>CCI<sub>3</sub> - Diff @ Surface for Jan



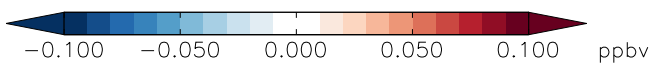
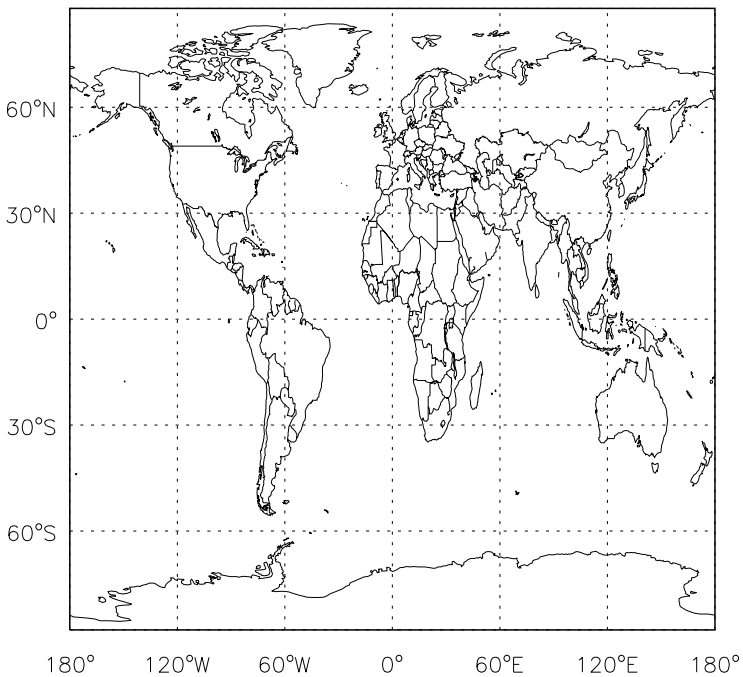
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>3</sub>CCI<sub>3</sub> - Diff @ 500 hPa for Jan



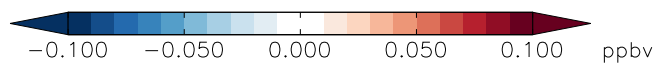
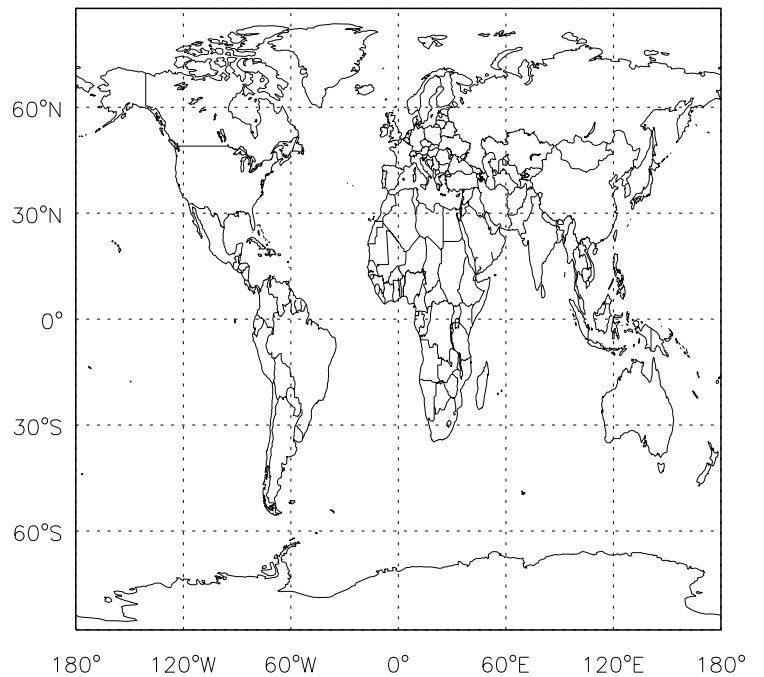
v11-01g-Run0 - v11-01d-Run1

CH<sub>3</sub>CCI<sub>3</sub> - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

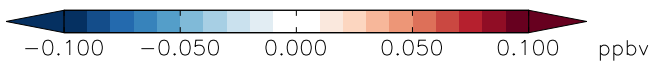
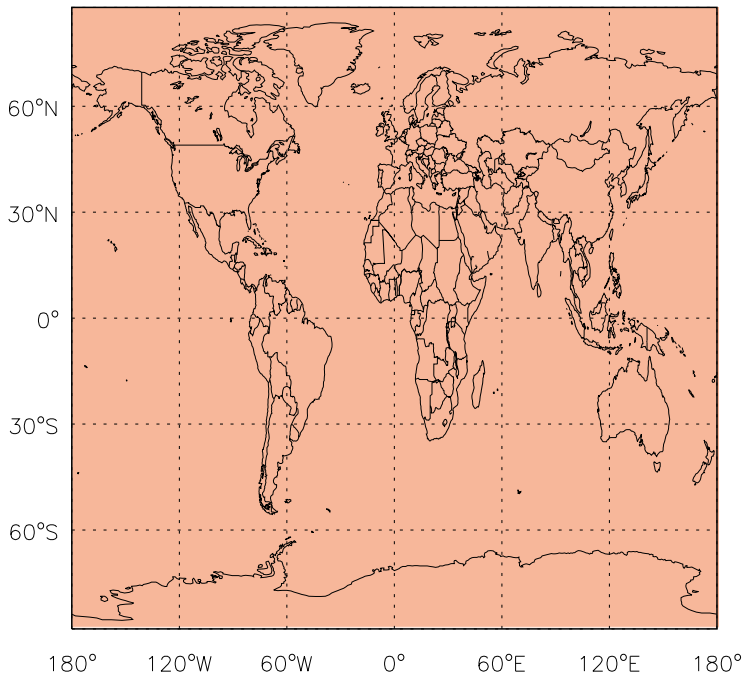
CH<sub>3</sub>CCI<sub>3</sub> - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

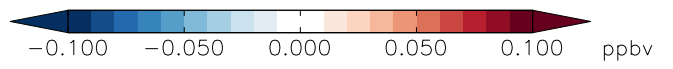
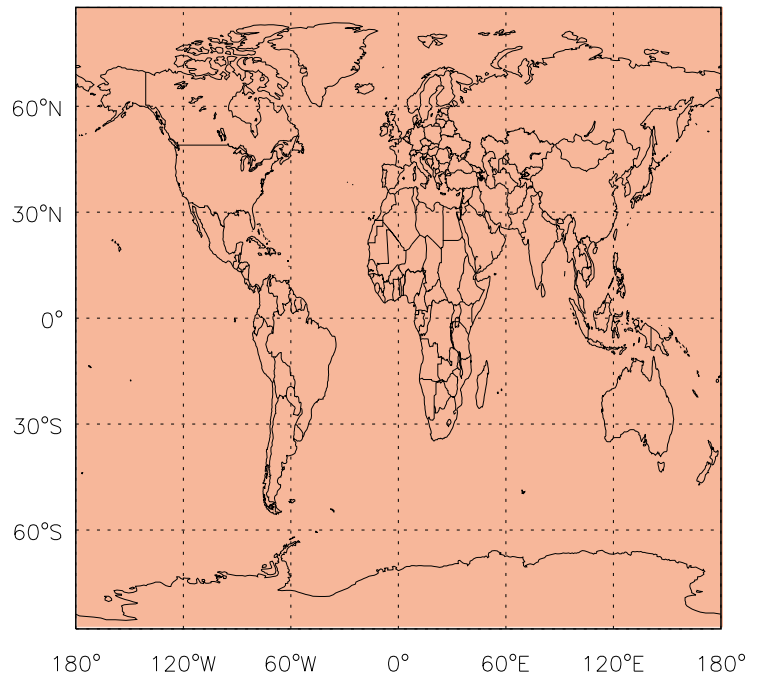
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC113 - Diff @ Surface for Jan



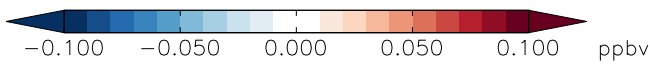
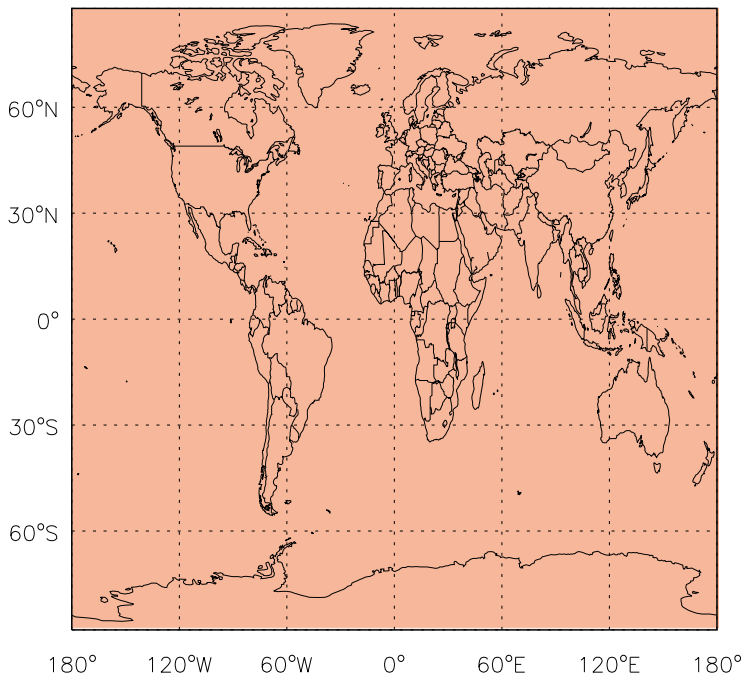
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC113 - Diff @ 500 hPa for Jan



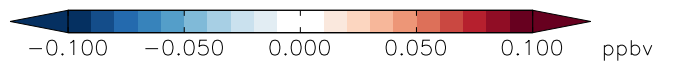
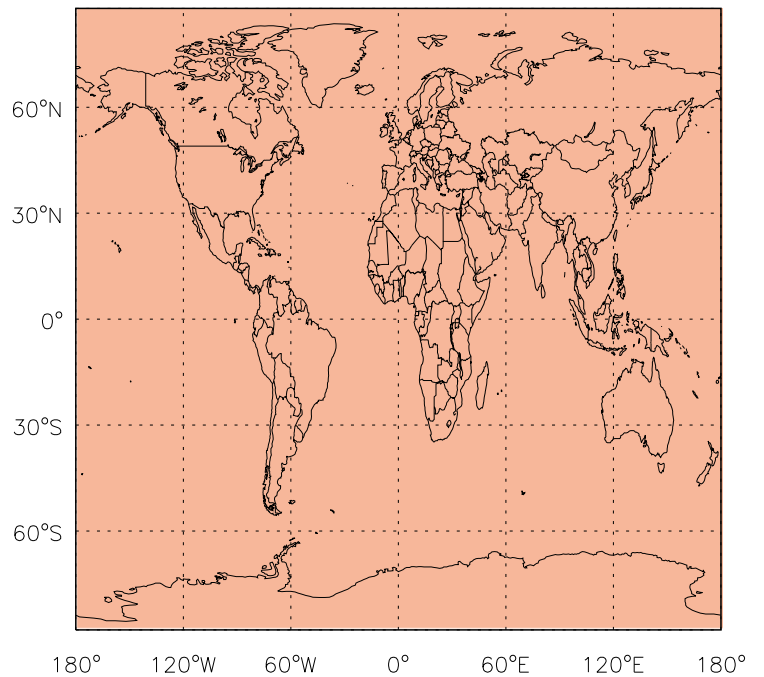
v11-01g-Run0 - v11-01d-Run1

CFC113 - Diff @ Surface for Jan



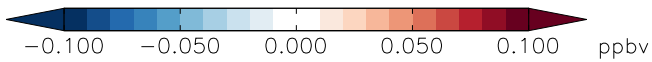
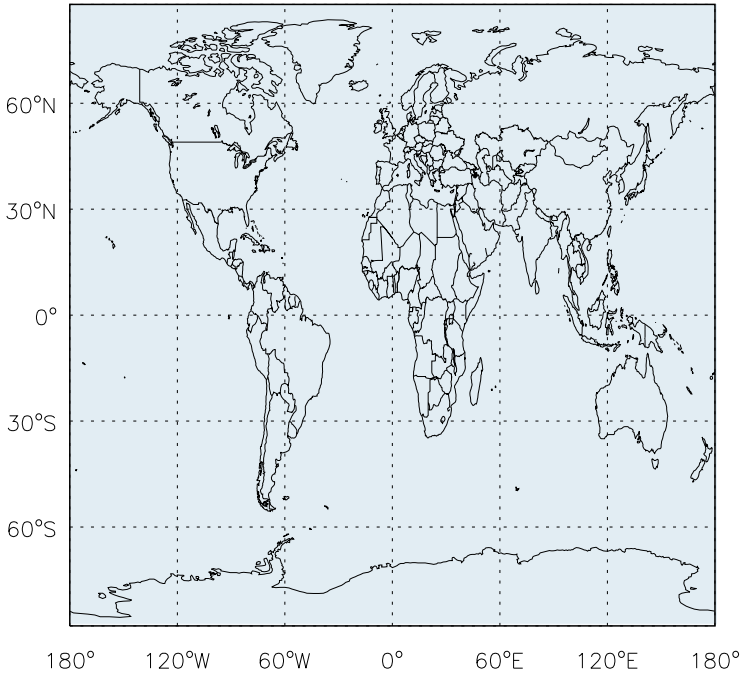
v11-01g-Run0 - v11-01d-Run1

CFC113 - Diff @ 500 hPa for Jan

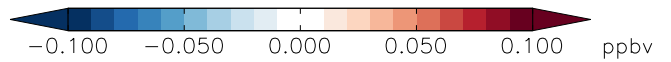
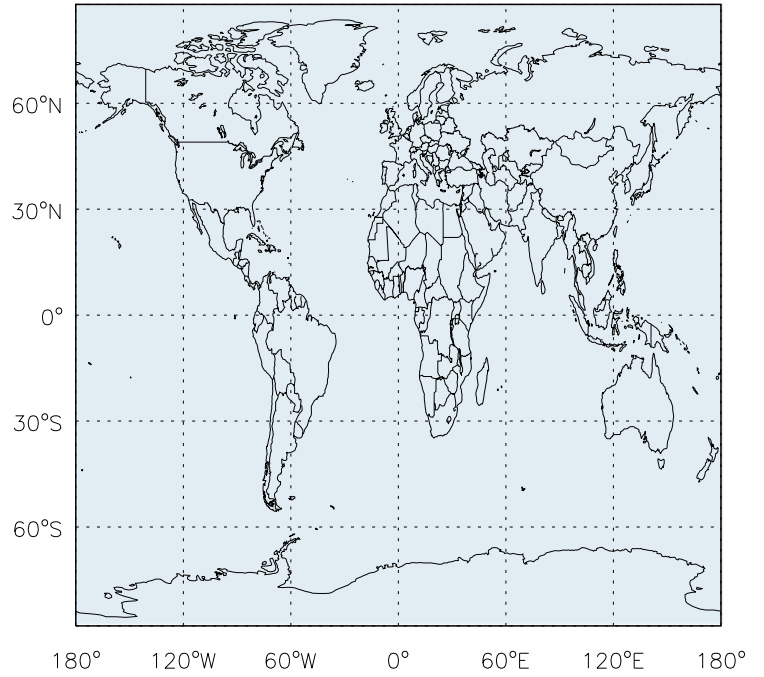


GEOS-Chem Difference Maps at surface and 500 hPa

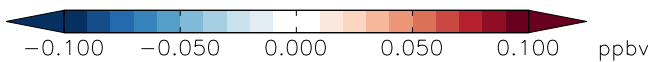
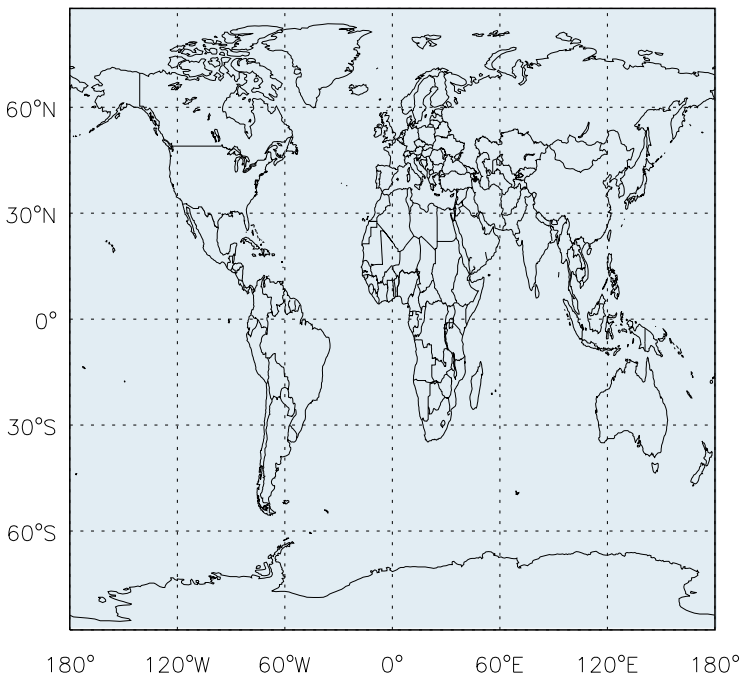
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC114 - Diff @ Surface for Jan



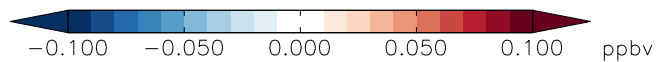
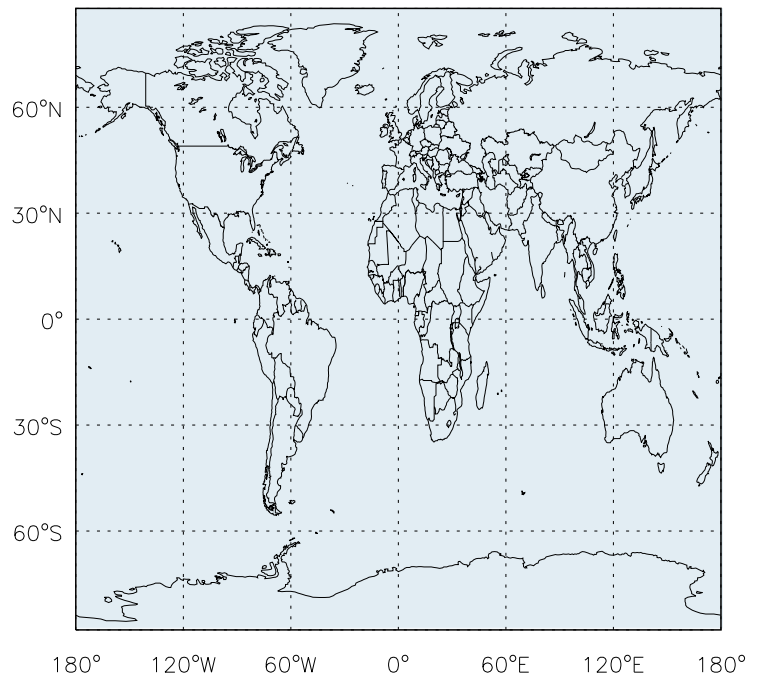
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC114 - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
CFC114 - Diff @ Surface for Jan

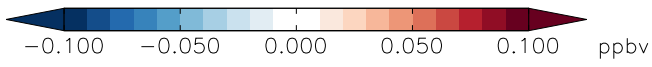
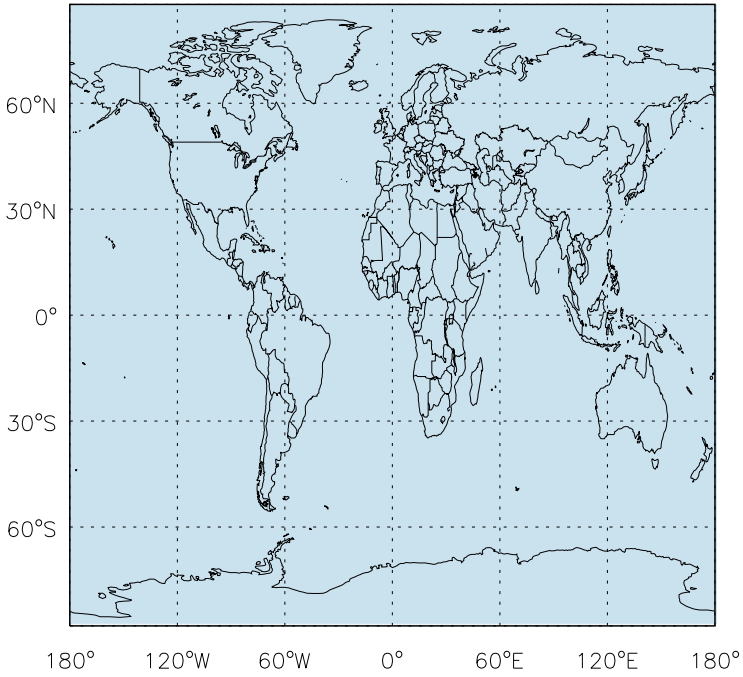


v11-01g-Run0 - v11-01d-Run1  
CFC114 - Diff @ 500 hPa for Jan

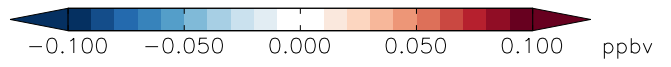
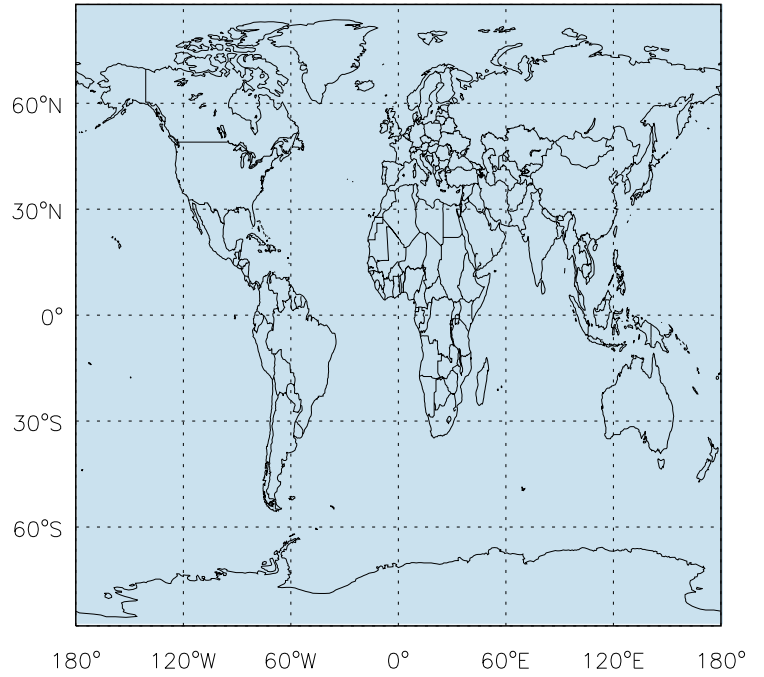


GEOS-Chem Difference Maps at surface and 500 hPa

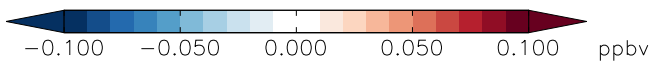
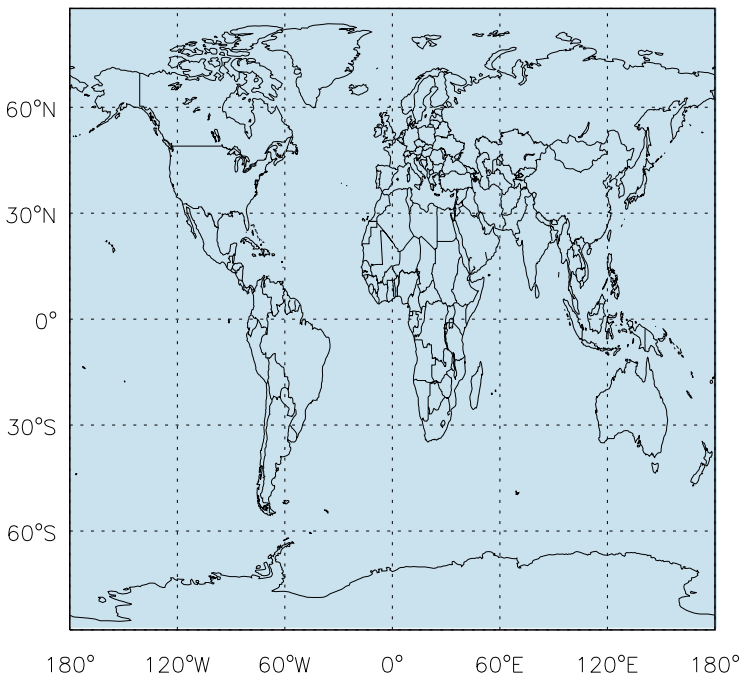
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC115 - Diff @ Surface for Jan



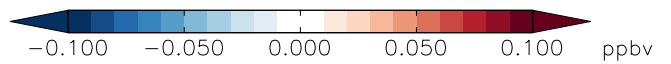
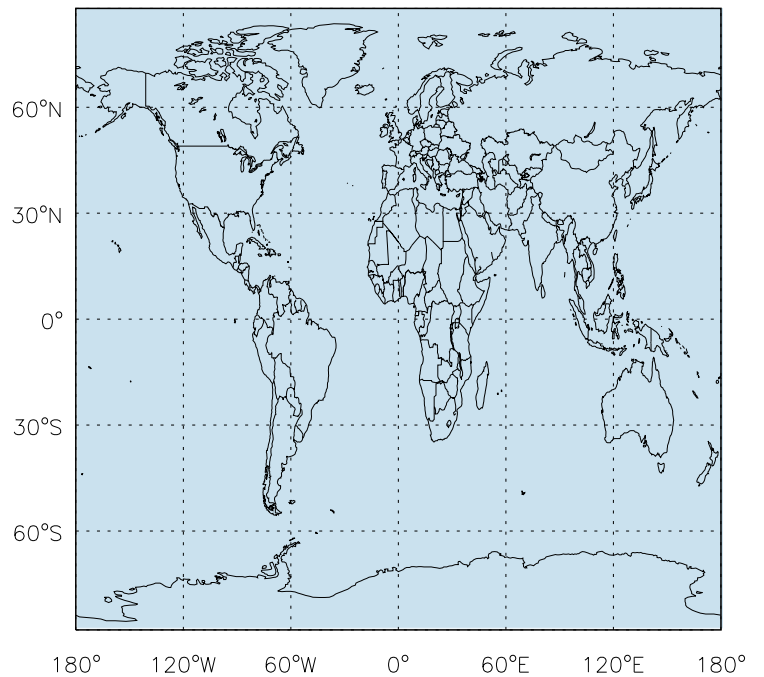
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC115 - Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
CFC115 - Diff @ Surface for Jan



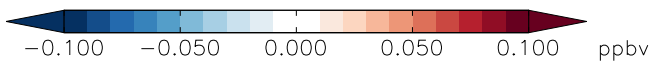
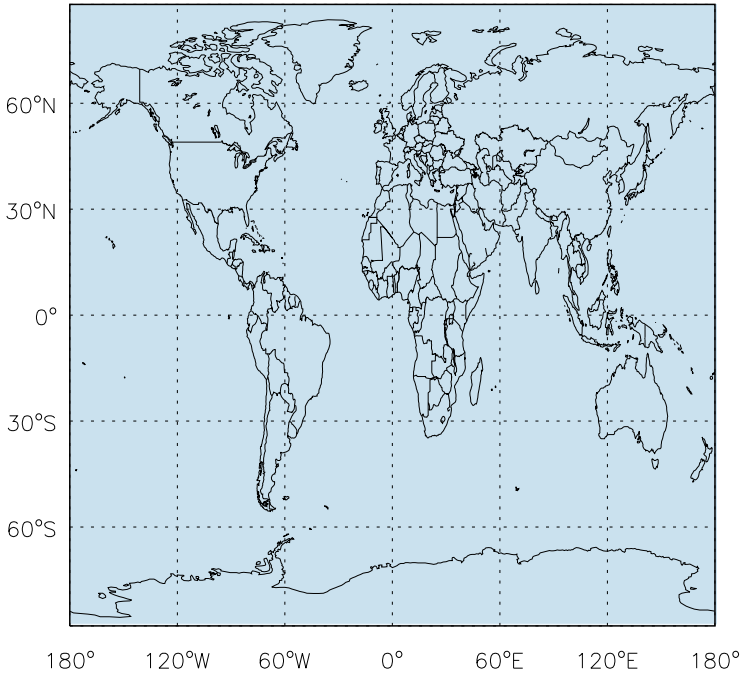
v11-01g-Run0 - v11-01d-Run1  
CFC115 - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

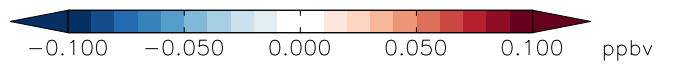
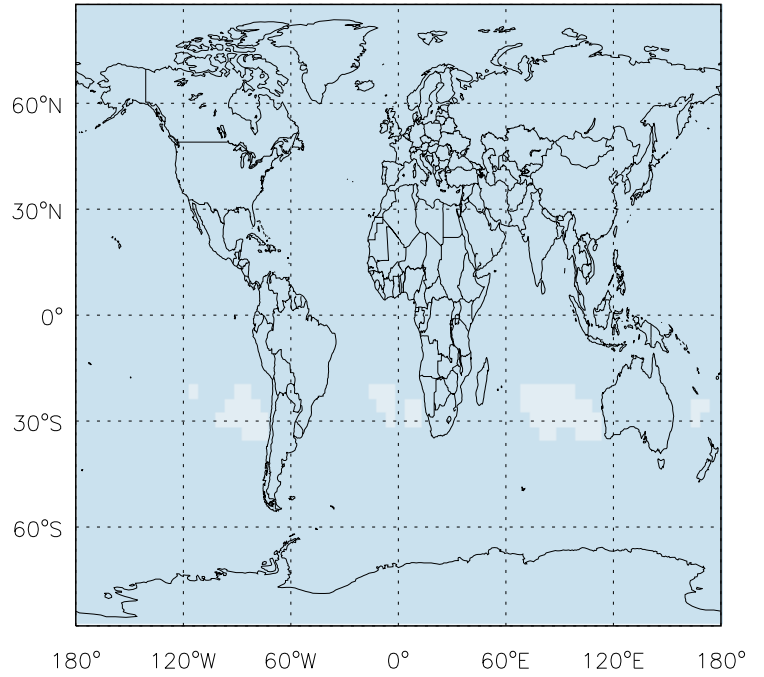
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC123 - Diff @ Surface for Jan



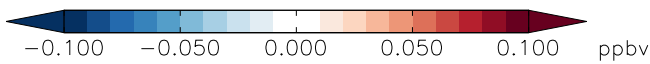
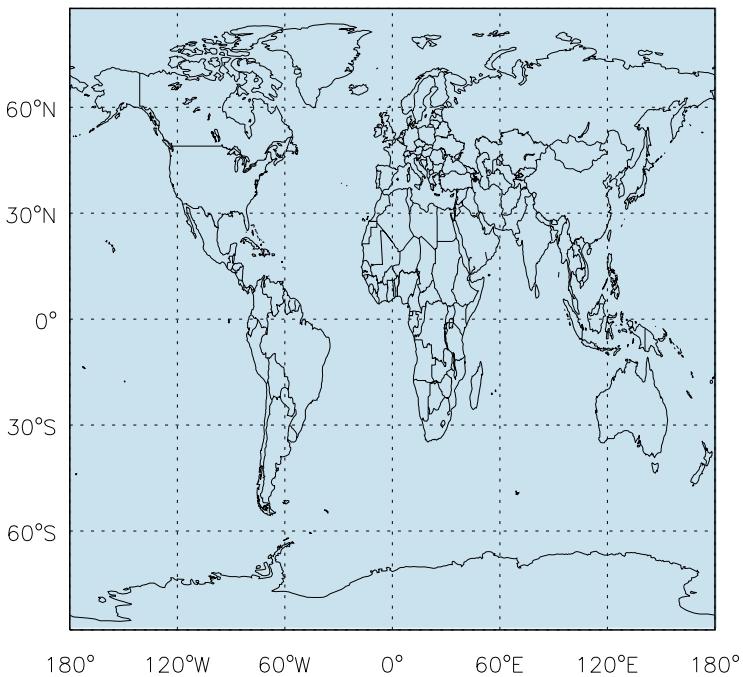
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC123- Diff @ 500 hPa for Jan



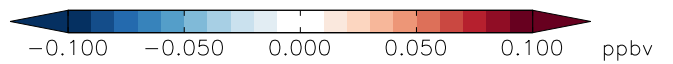
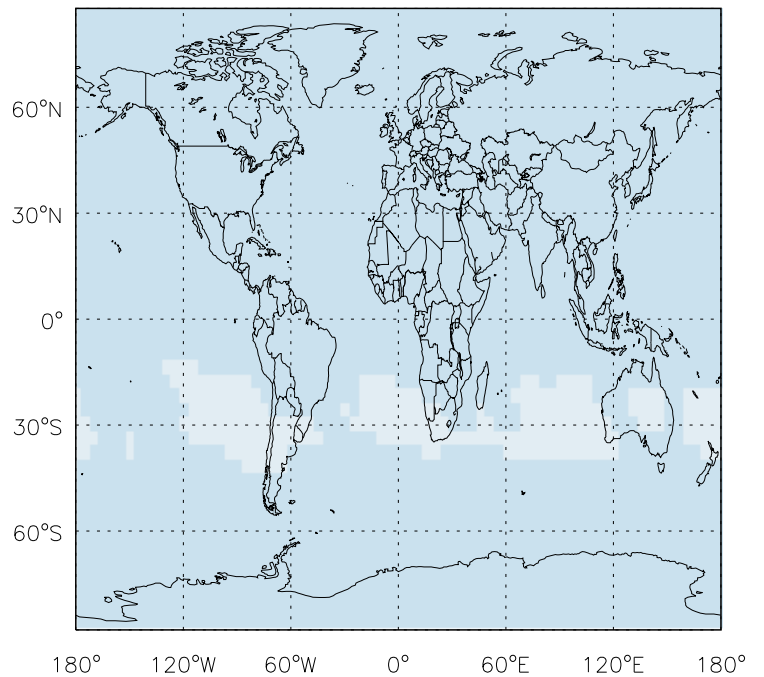
v11-01g-Run0 - v11-01d-Run1

HCFC123 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

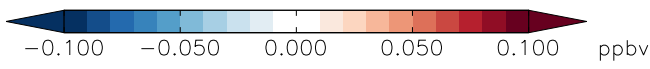
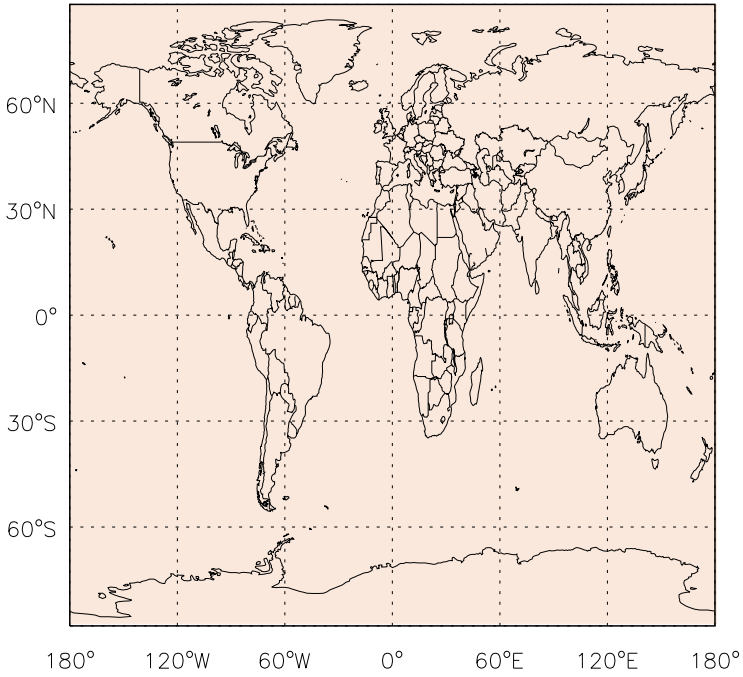
HCFC123- Diff @ 500 hPa for Jan



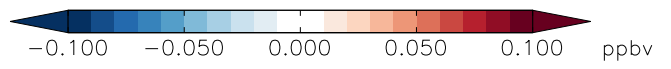
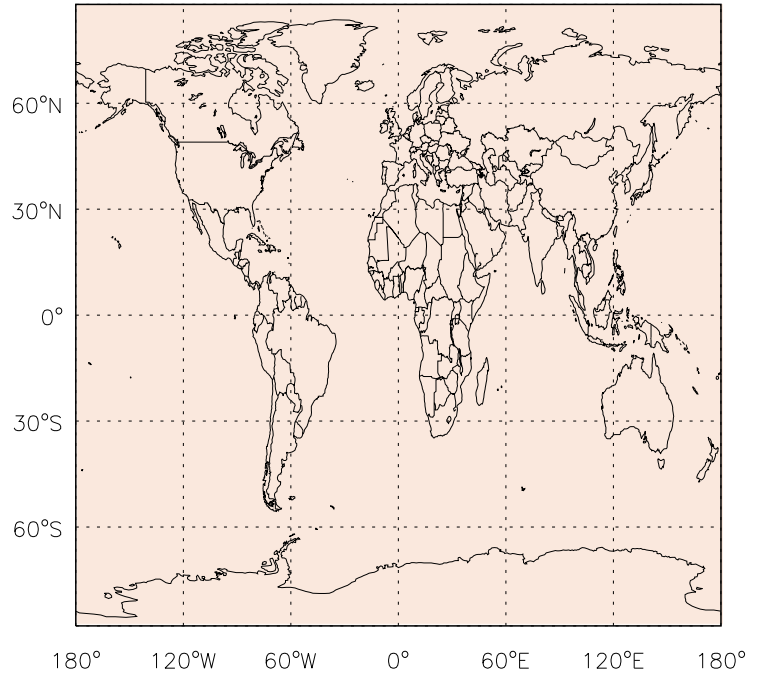


GEOS-Chem Difference Maps at surface and 500 hPa

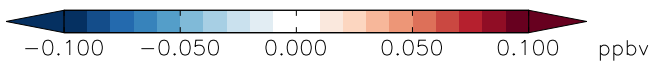
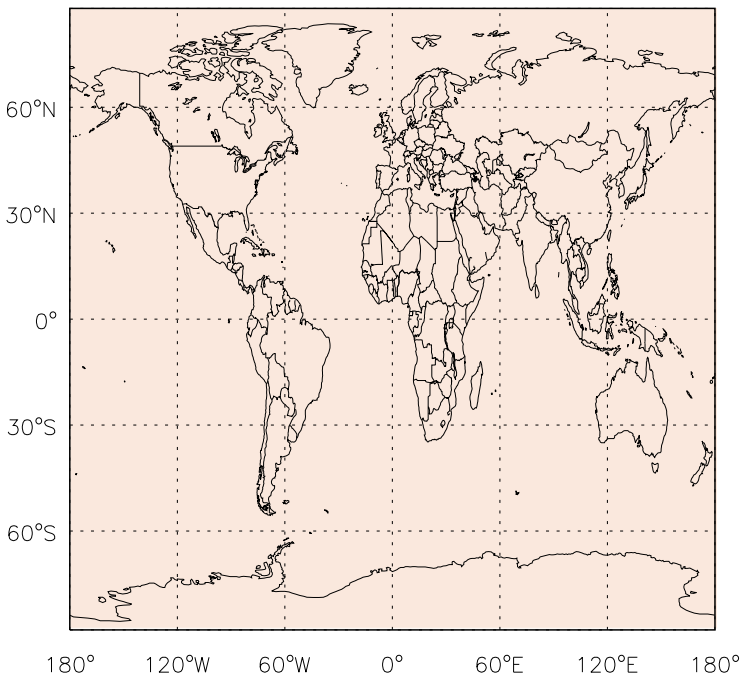
v11-01g-Run0 - v11-01f-geosfp-Run0  
HCFC141b - Diff @ Surface for Jan



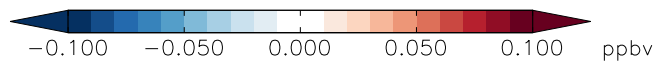
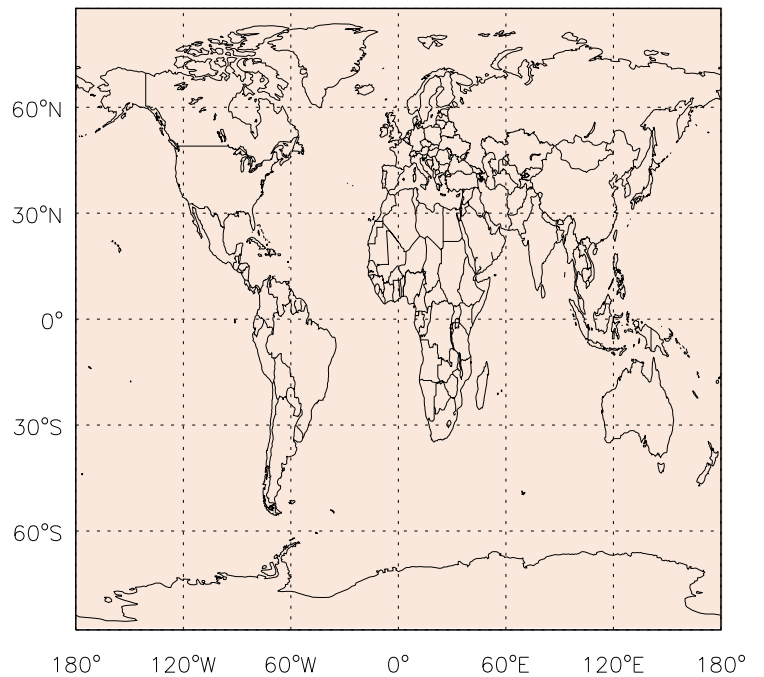
v11-01g-Run0 - v11-01f-geosfp-Run0  
HCFC141b- Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
HCFC141b - Diff @ Surface for Jan

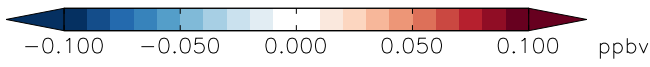
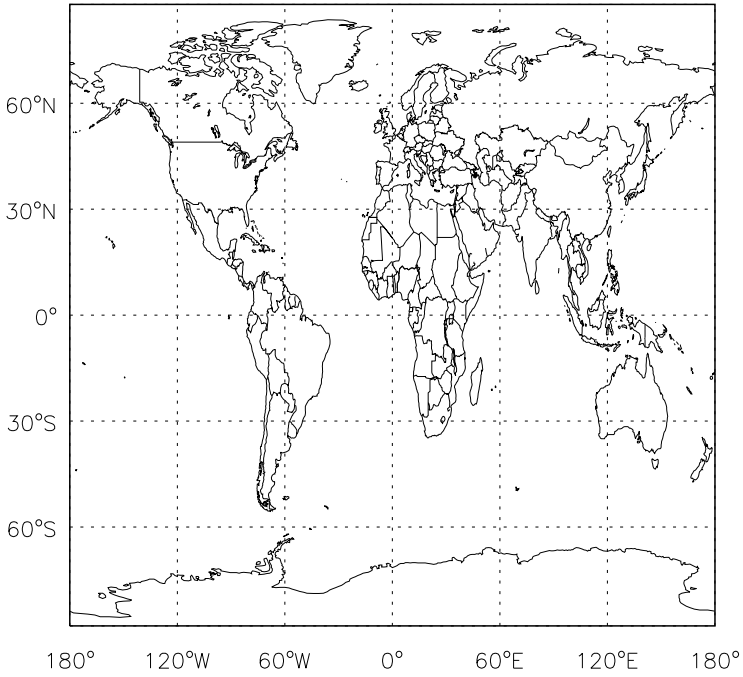


v11-01g-Run0 - v11-01d-Run1  
HCFC141b- Diff @ 500 hPa for Jan

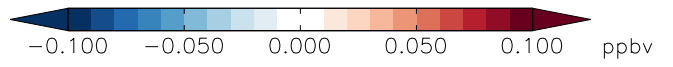
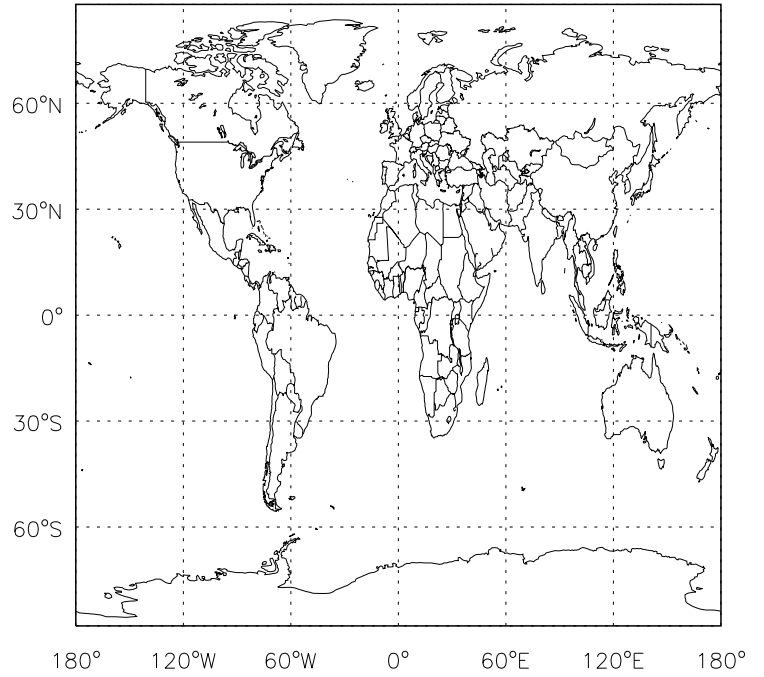


GEOS-Chem Difference Maps at surface and 500 hPa

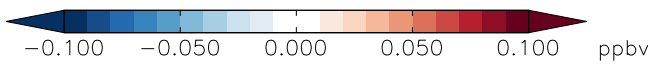
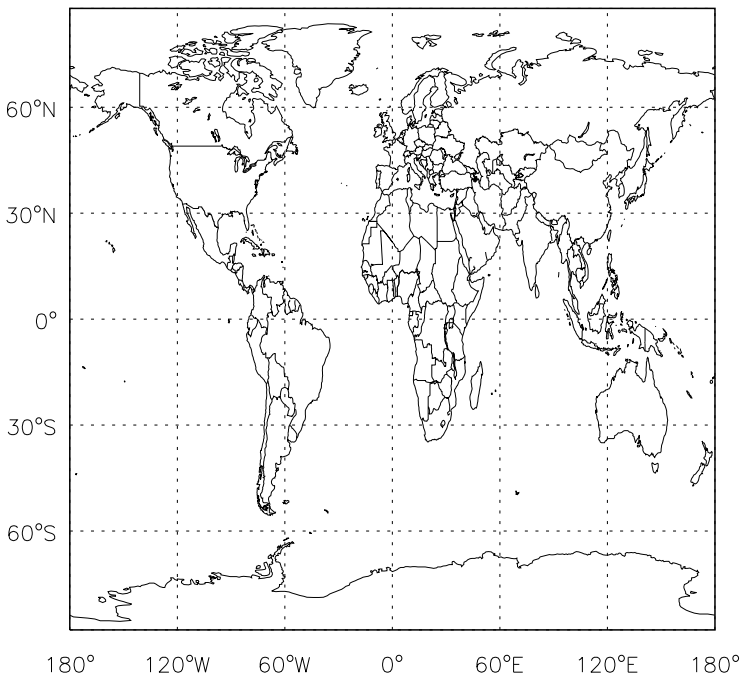
v11-01g-Run0 - v11-01f-geosfp-Run0  
HCFC142b - Diff @ Surface for Jan



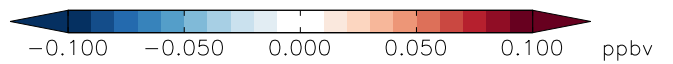
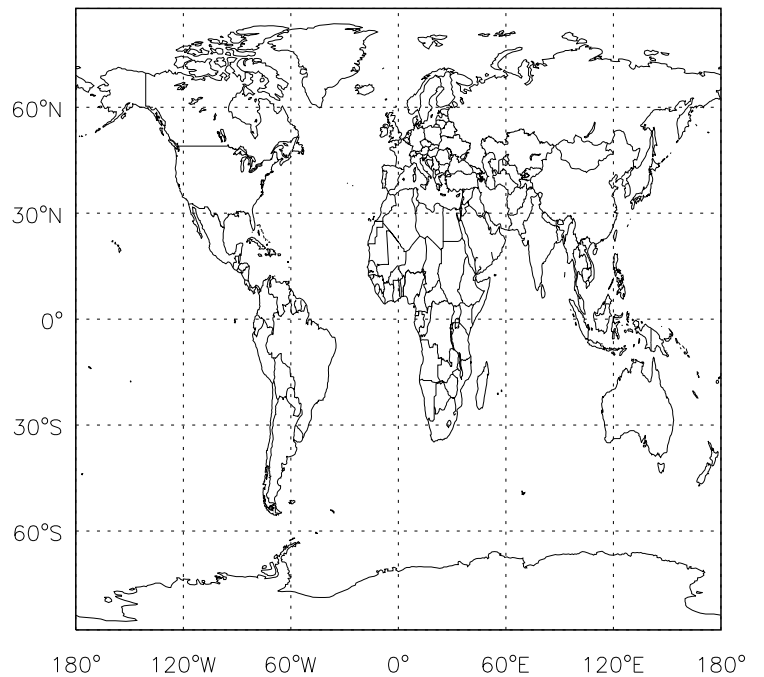
v11-01g-Run0 - v11-01f-geosfp-Run0  
HCFC142b- Diff @ 500 hPa for Jan



v11-01g-Run0 - v11-01d-Run1  
HCFC142b - Diff @ Surface for Jan



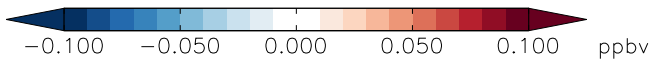
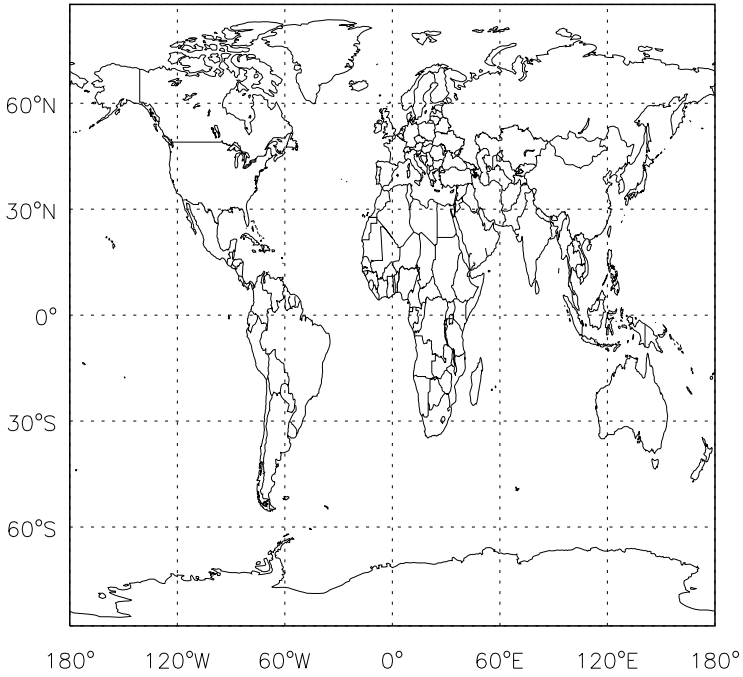
v11-01g-Run0 - v11-01d-Run1  
HCFC142b- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

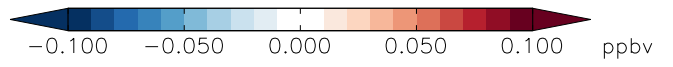
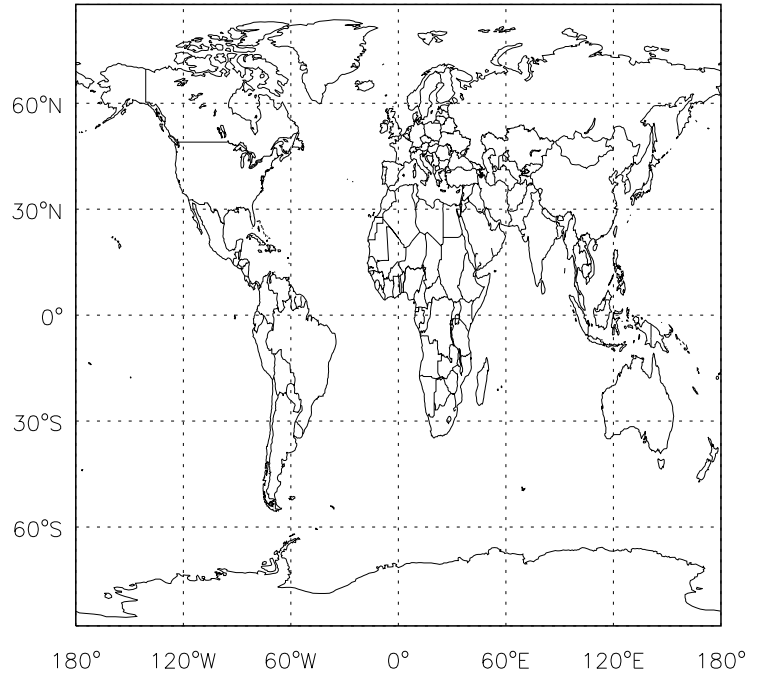
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC11 - Diff @ Surface for Jan



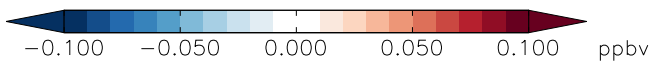
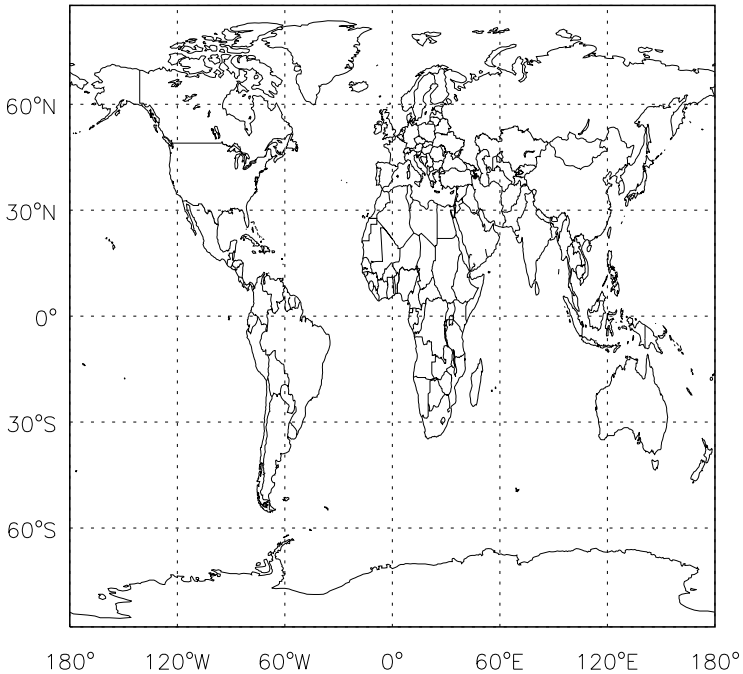
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC11 - Diff @ 500 hPa for Jan



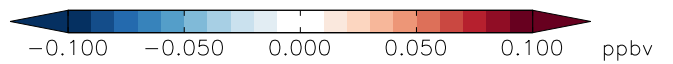
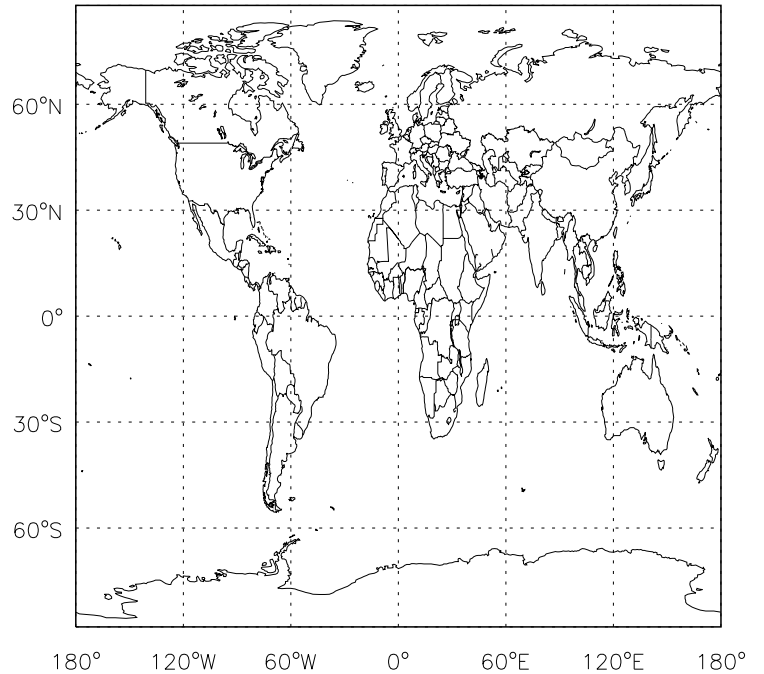
v11-01g-Run0 - v11-01d-Run1

CFC11 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

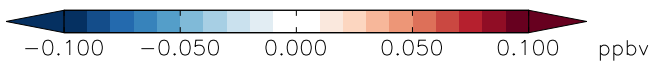
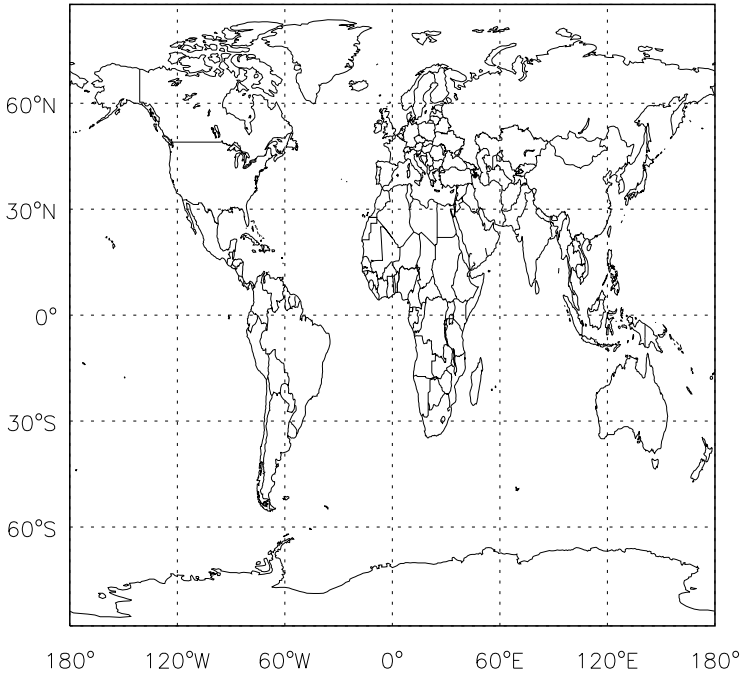
CFC11 - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

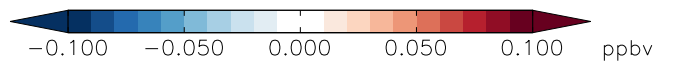
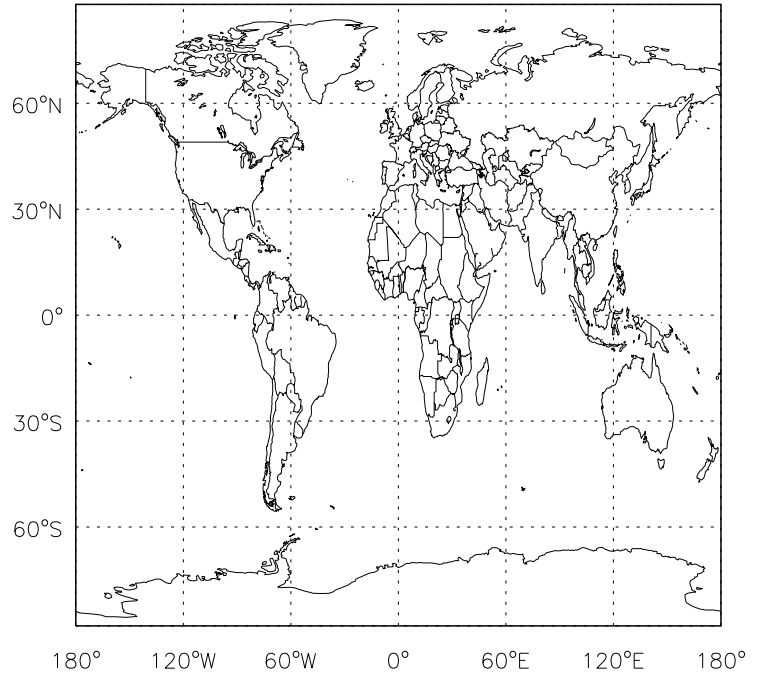
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC12 - Diff @ Surface for Jan



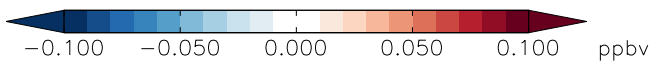
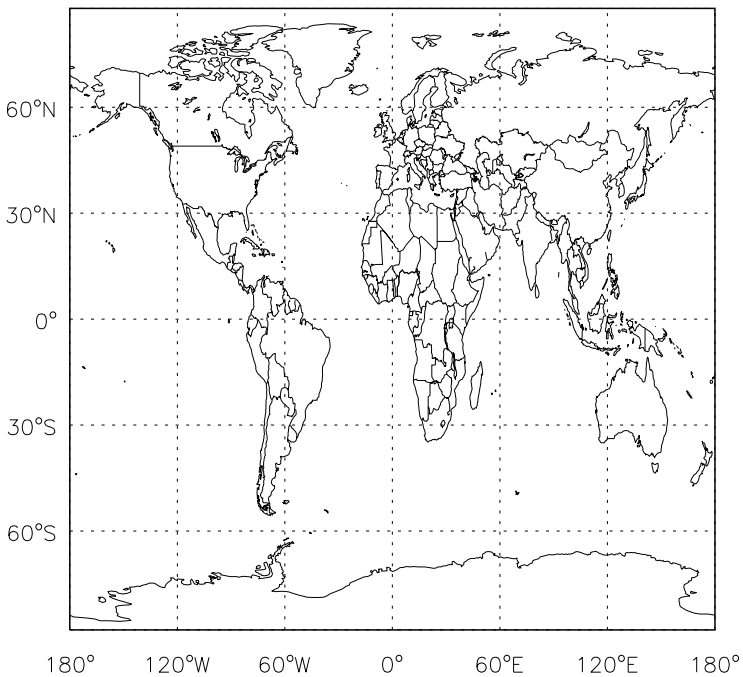
v11-01g-Run0 - v11-01f-geosfp-Run0

CFC12- Diff @ 500 hPa for Jan



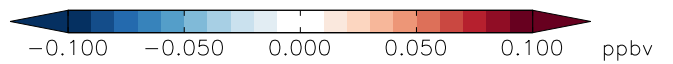
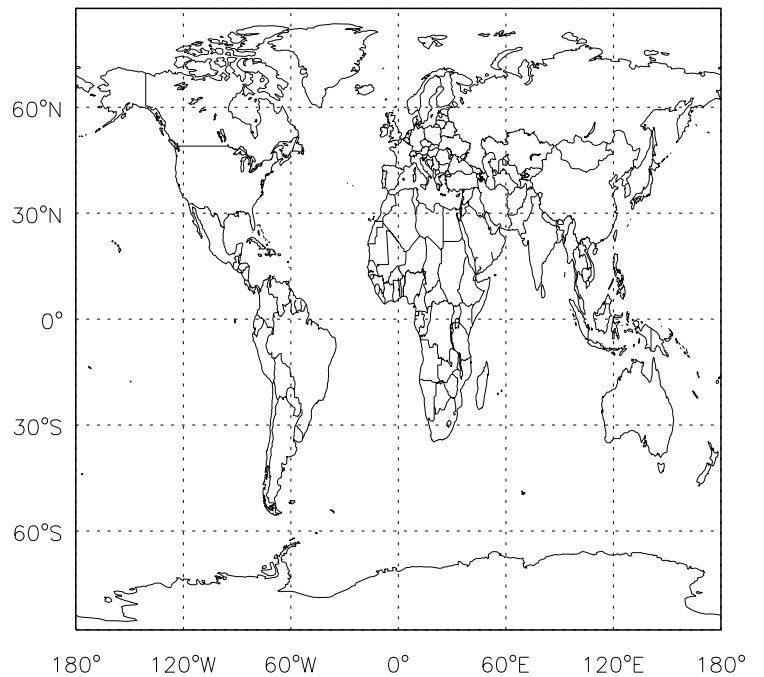
v11-01g-Run0 - v11-01d-Run1

CFC12 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

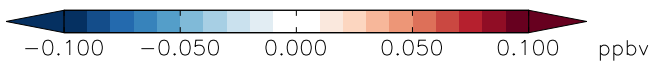
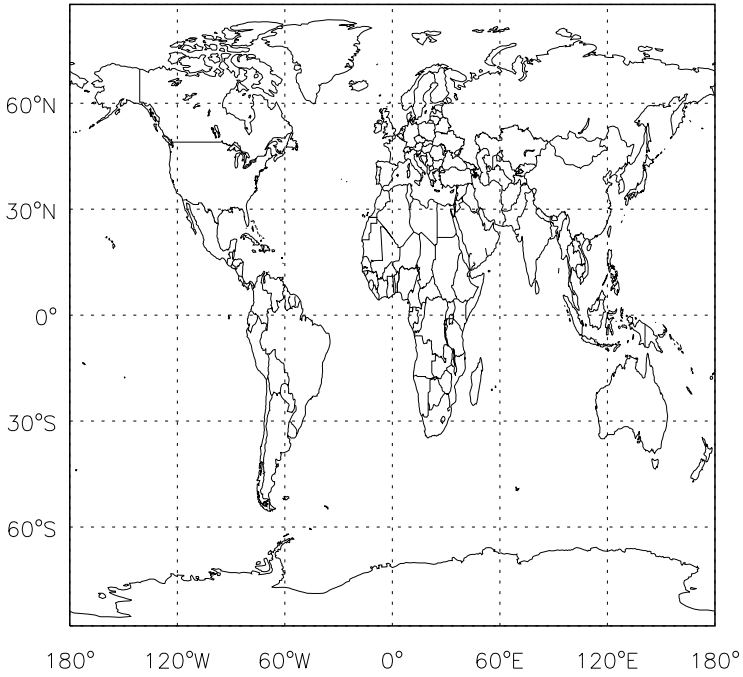
CFC12- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

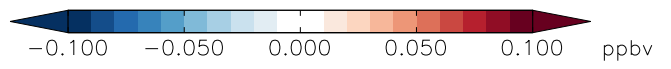
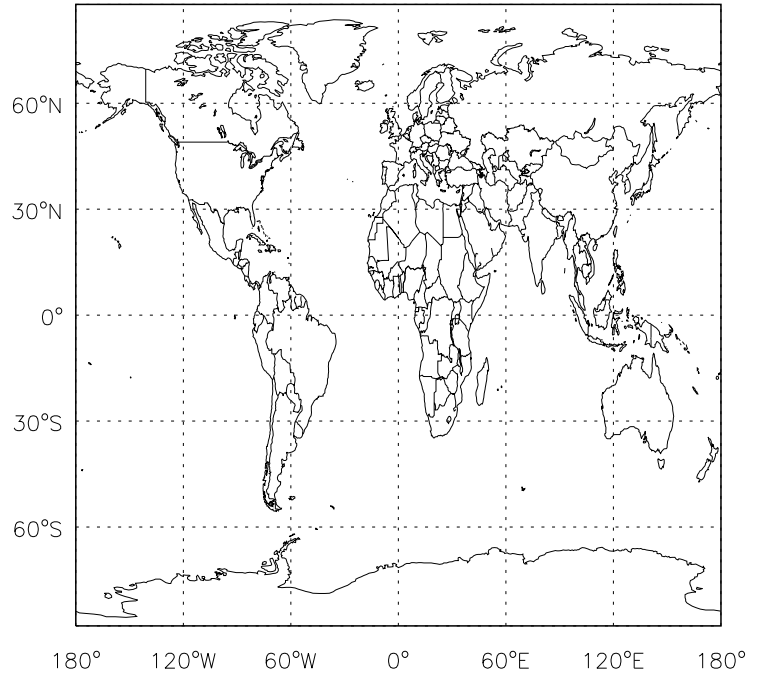
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC22 - Diff @ Surface for Jan



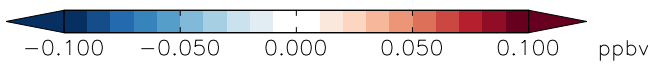
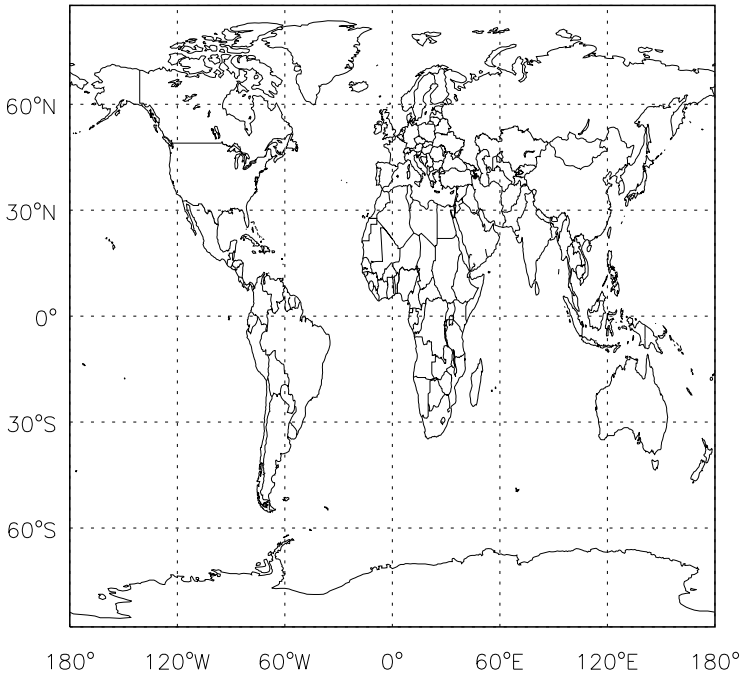
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC22 - Diff @ 500 hPa for Jan



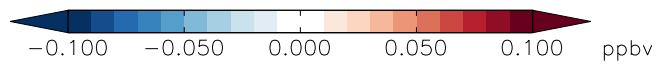
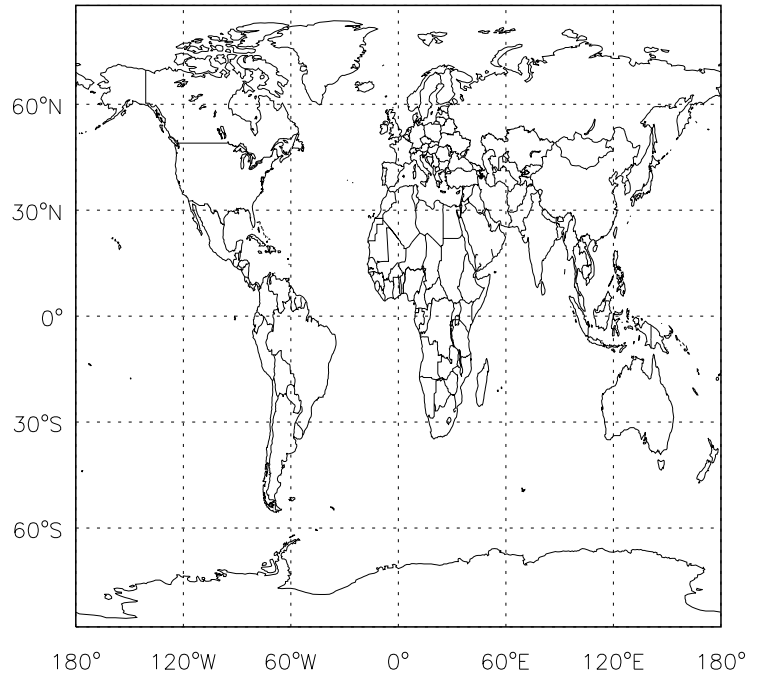
v11-01g-Run0 - v11-01d-Run1

HCFC22 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

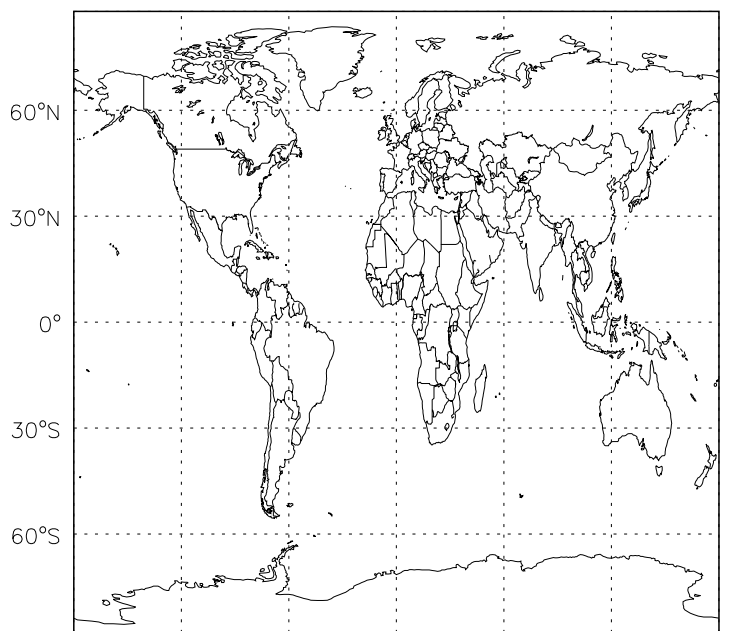
HCFC22 - Diff @ 500 hPa for Jan



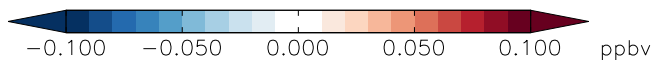
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

H1211 - Diff @ Surface for Jan

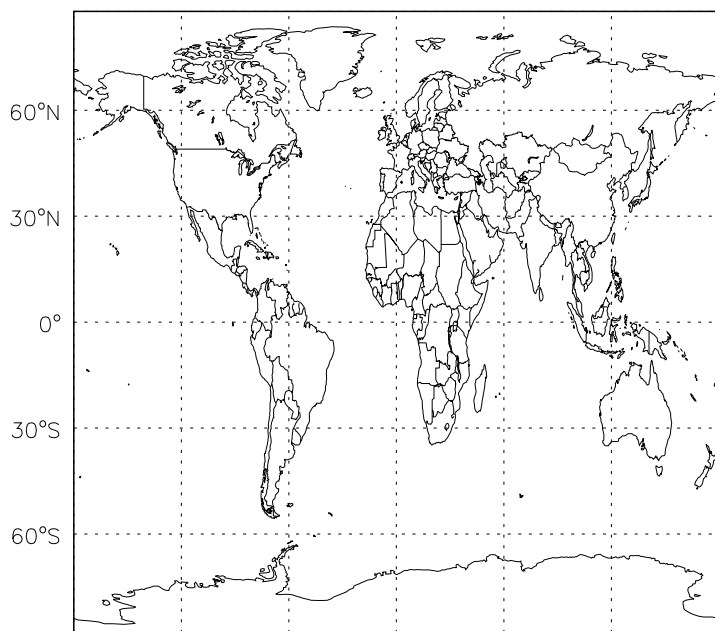


180° 120°W 60°W 0° 60°E 120°E 180°

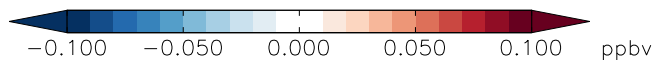


v11-01g-Run0 - v11-01f-geosfp-Run0

H1211- Diff @ 500 hPa for Jan

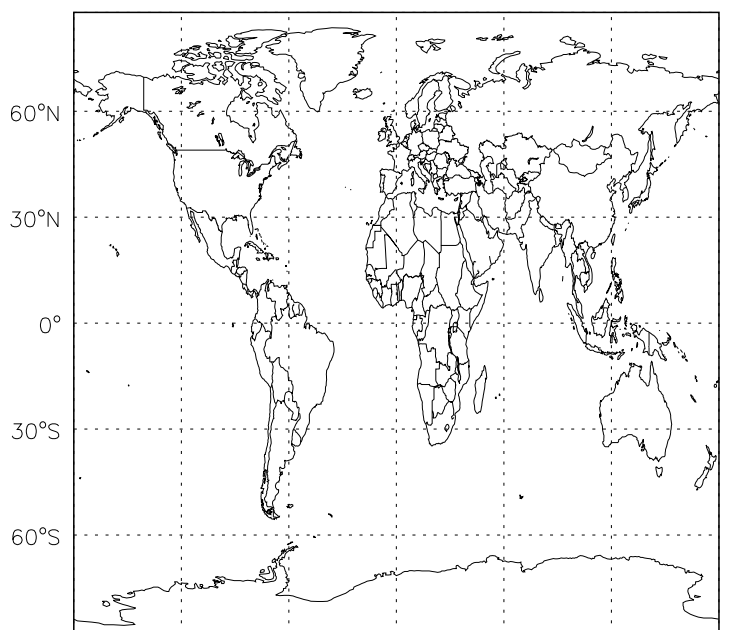


180° 120°W 60°W 0° 60°E 120°E 180°

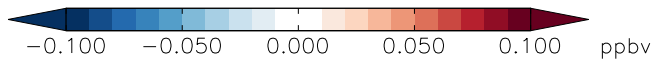


v11-01g-Run0 - v11-01d-Run1

H1211 - Diff @ Surface for Jan

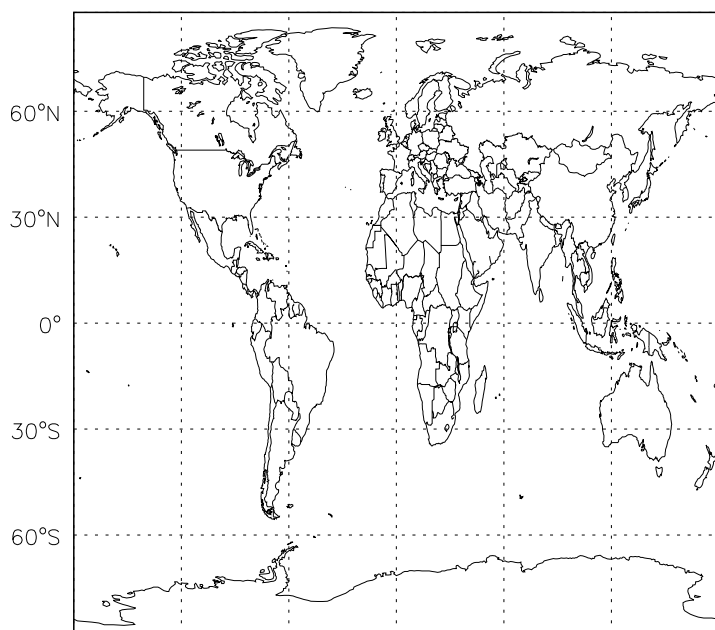


180° 120°W 60°W 0° 60°E 120°E 180°

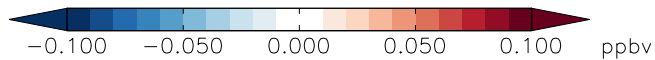


v11-01g-Run0 - v11-01d-Run1

H1211- Diff @ 500 hPa for Jan



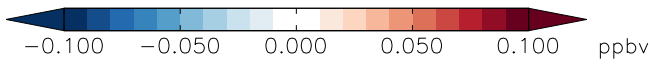
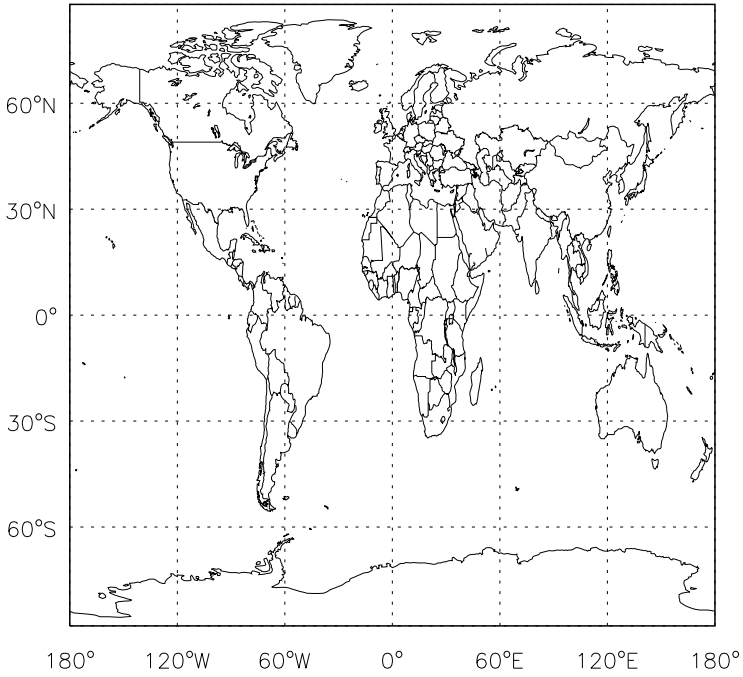
180° 120°W 60°W 0° 60°E 120°E 180°



GEOS-Chem Difference Maps at surface and 500 hPa

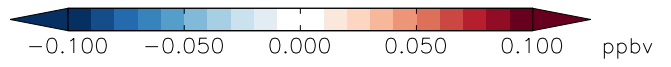
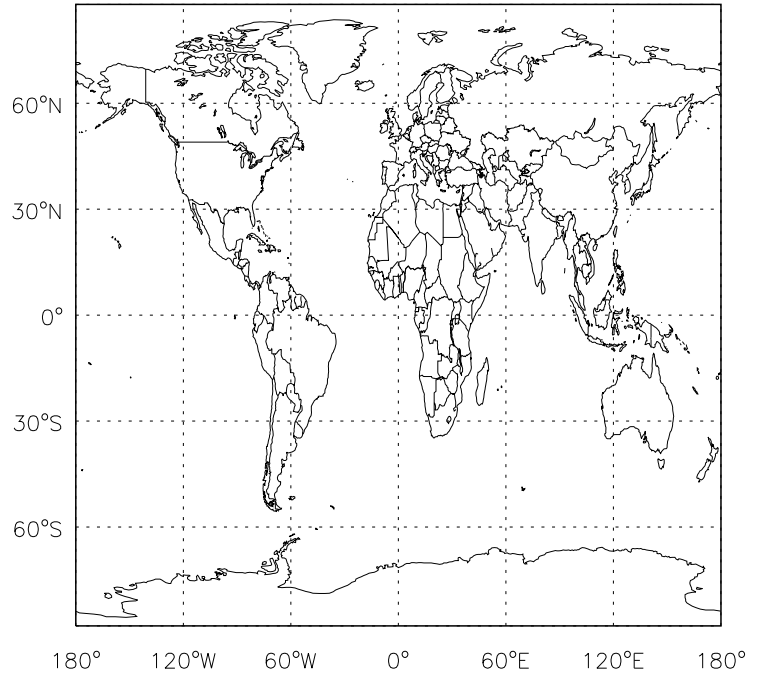
v11-01g-Run0 - v11-01f-geosfp-Run0

H1301 - Diff @ Surface for Jan



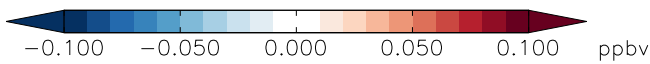
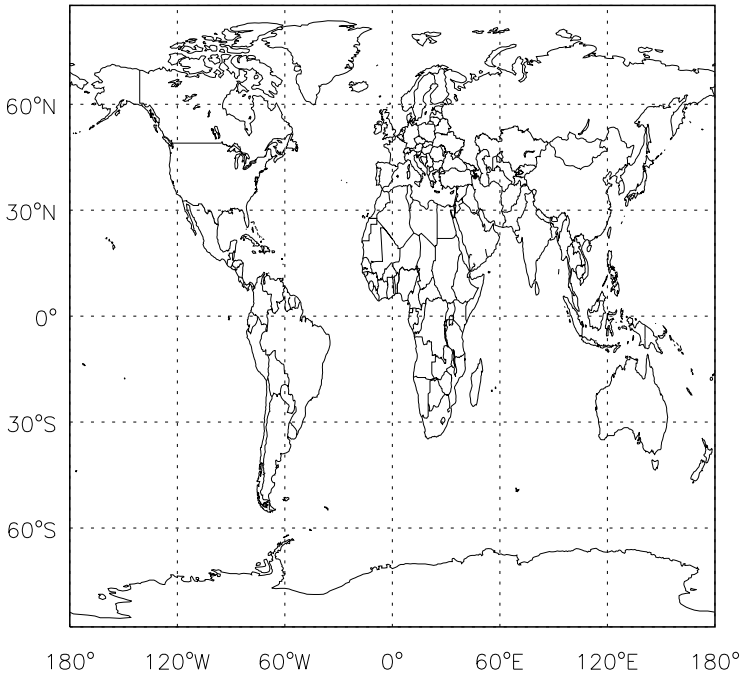
v11-01g-Run0 - v11-01f-geosfp-Run0

H1301 - Diff @ 500 hPa for Jan



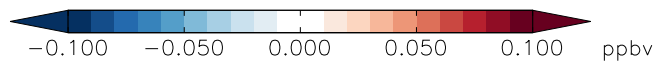
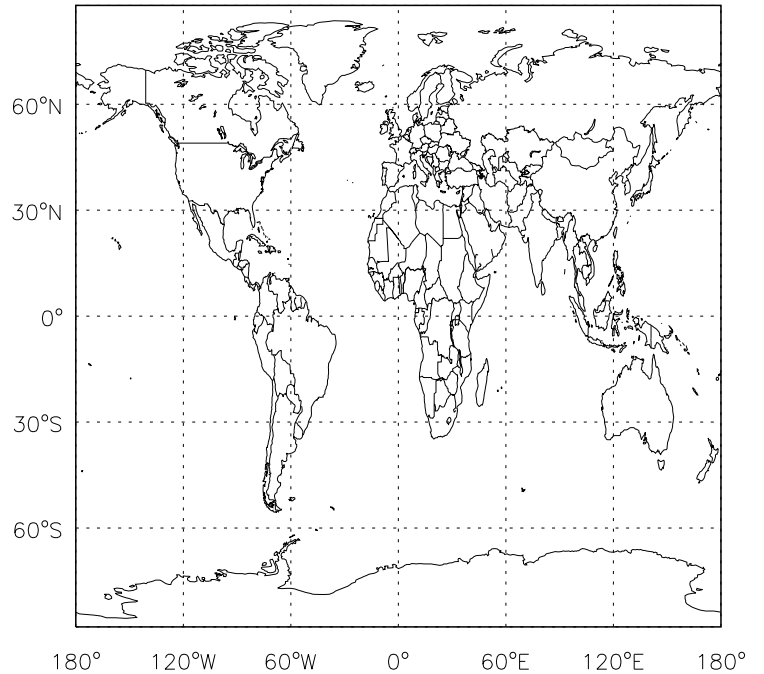
v11-01g-Run0 - v11-01d-Run1

H1301 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

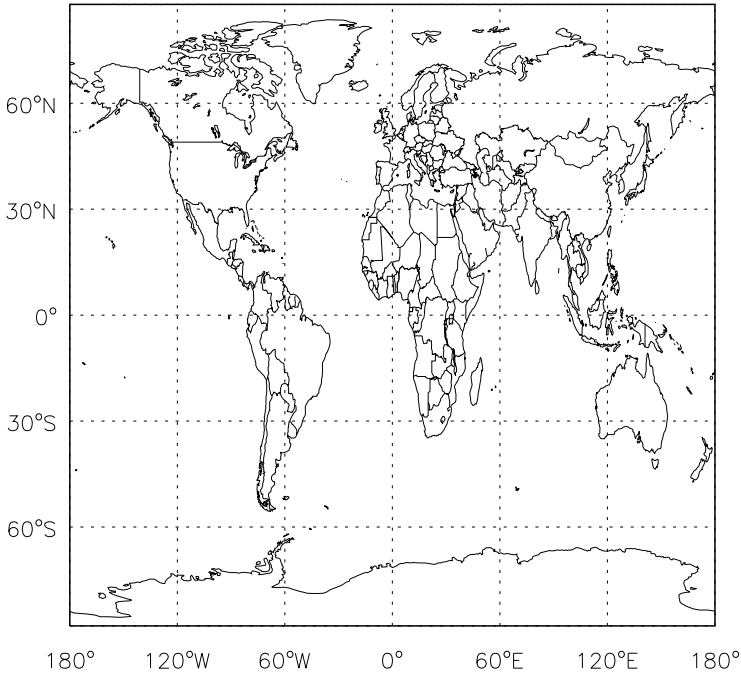
H1301 - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

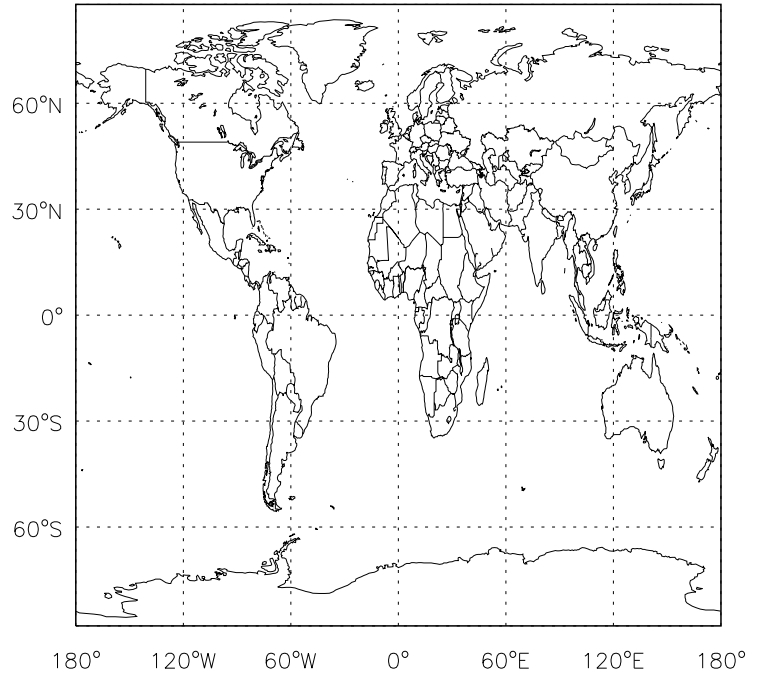
v11-01g-Run0 - v11-01f-geosfp-Run0

H2402 - Diff @ Surface for Jan



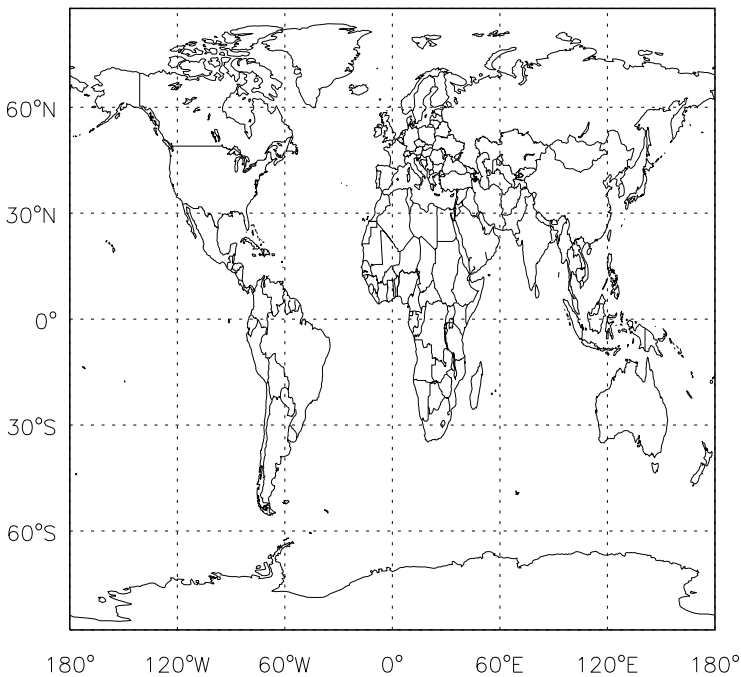
v11-01g-Run0 - v11-01f-geosfp-Run0

H2402- Diff @ 500 hPa for Jan



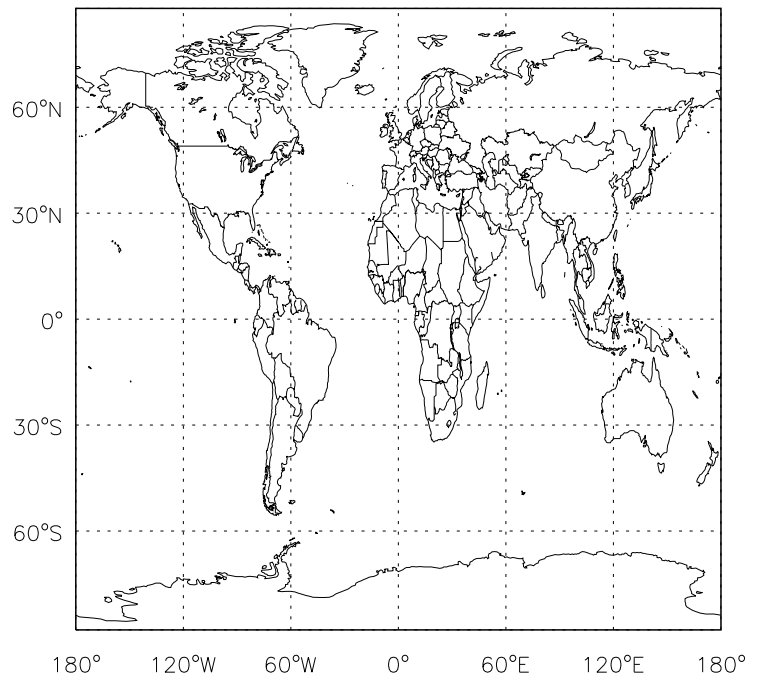
v11-01g-Run0 - v11-01d-Run1

H2402 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

H2402- Diff @ 500 hPa for Jan

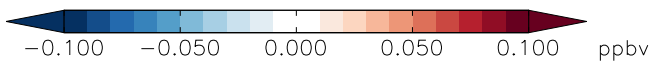
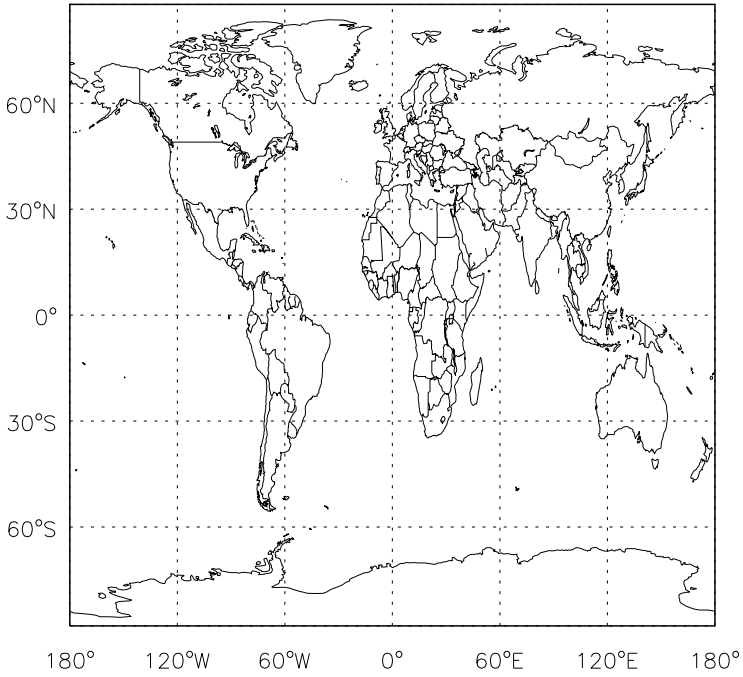




# GEOS-Chem Difference Maps at surface and 500 hPa

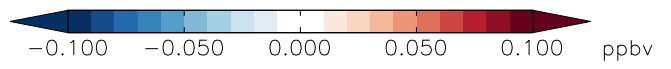
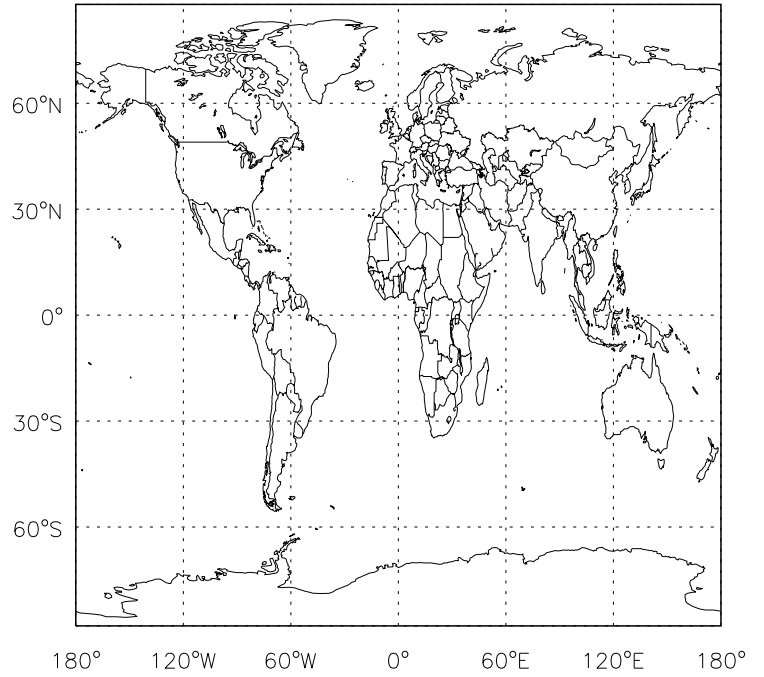
v11-01g-Run0 - v11-01f-geosfp-Run0

Cl - Diff @ Surface for Jan



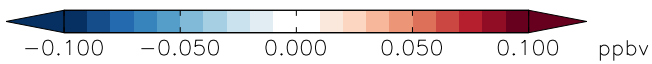
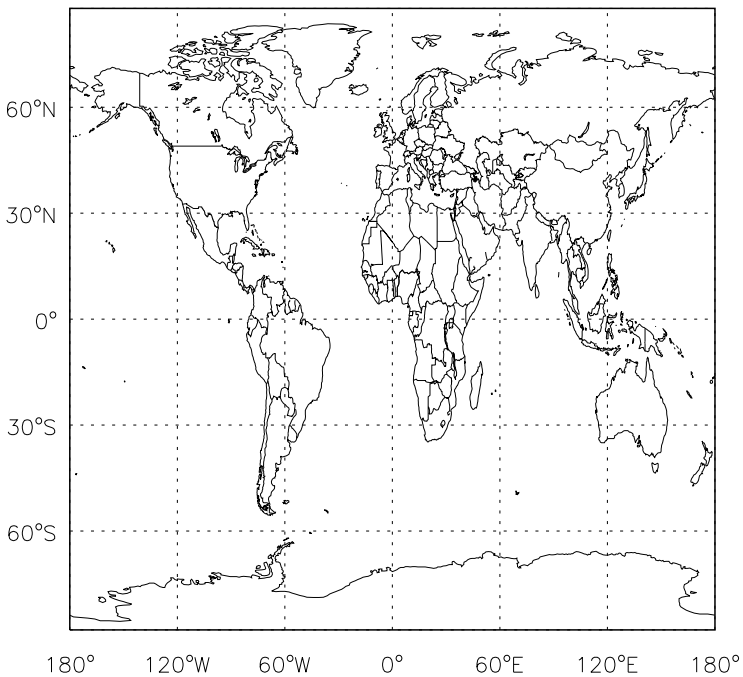
v11-01g-Run0 - v11-01f-geosfp-Run0

Cl - Diff @ 500 hPa for Jan



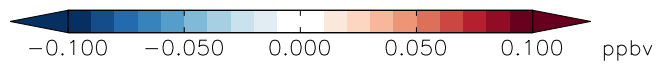
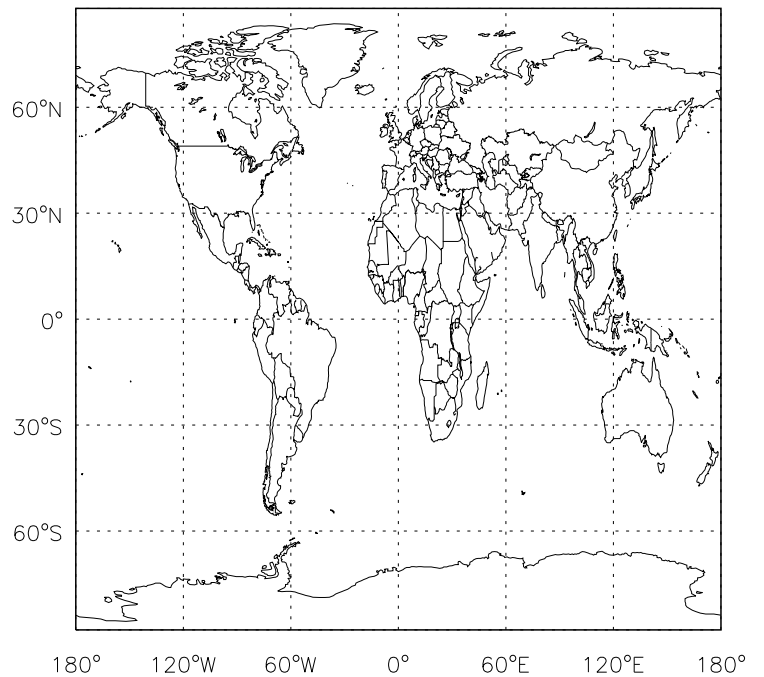
v11-01g-Run0 - v11-01d-Run1

Cl - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

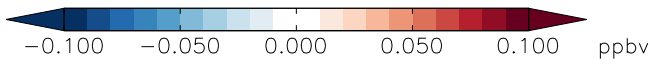
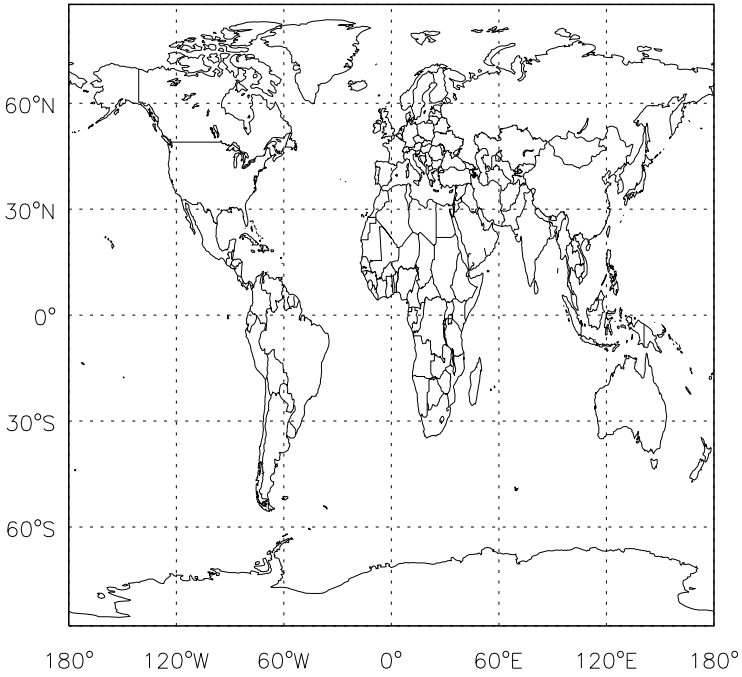
Cl - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

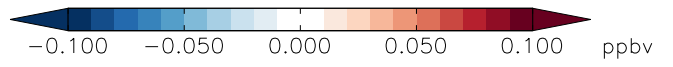
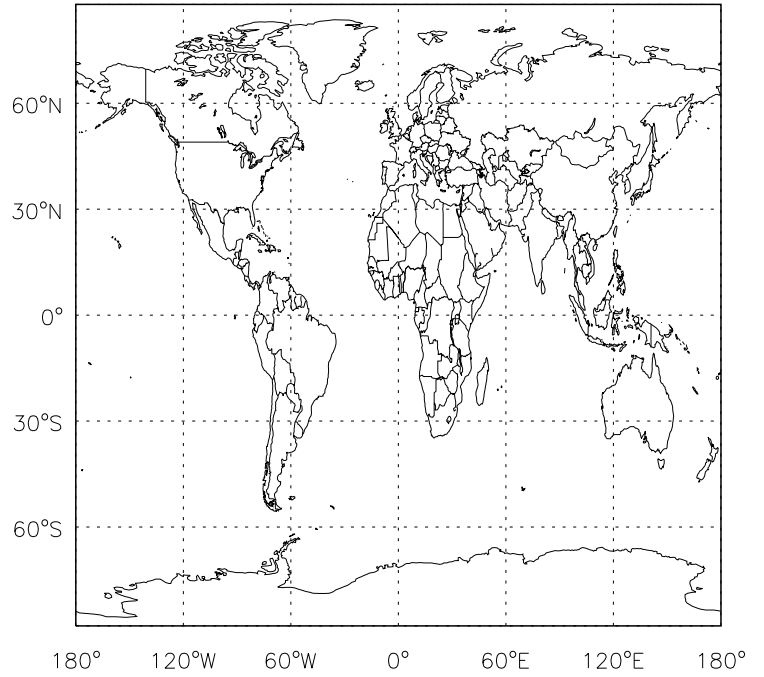
v11-01g-Run0 - v11-01f-geosfp-Run0

CIO - Diff @ Surface for Jan



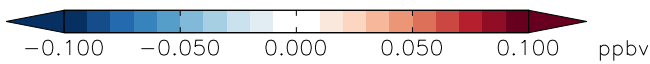
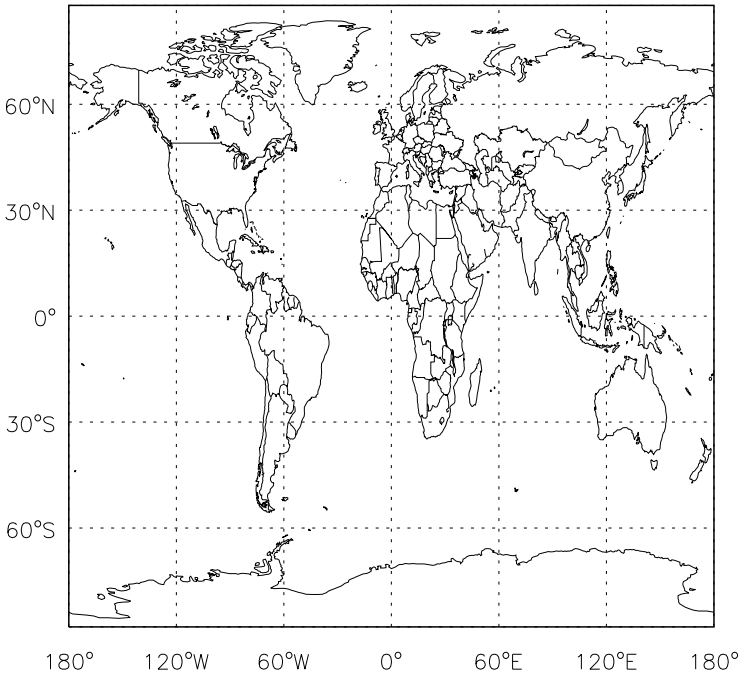
v11-01g-Run0 - v11-01f-geosfp-Run0

CIO - Diff @ 500 hPa for Jan



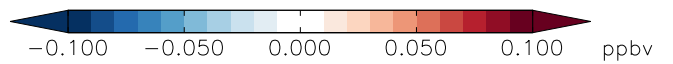
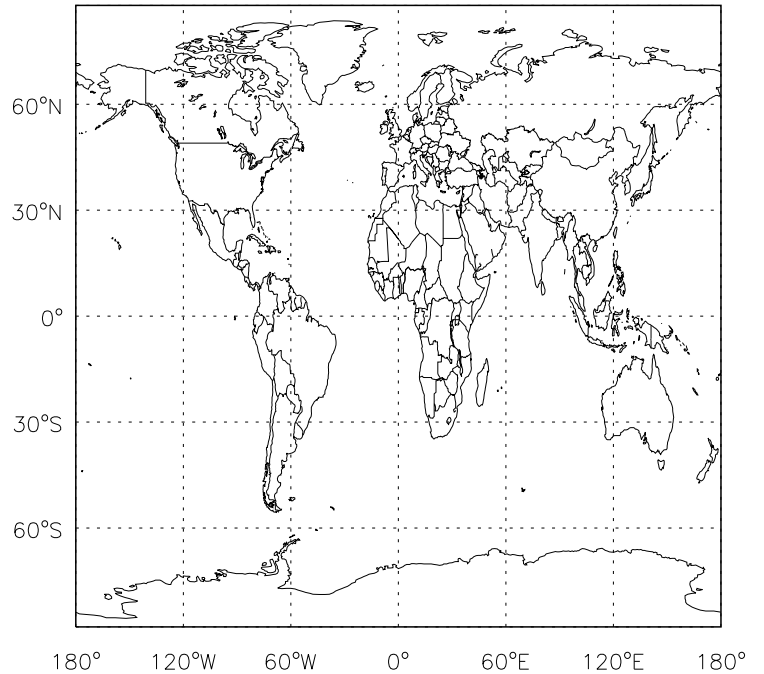
v11-01g-Run0 - v11-01d-Run1

CIO - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

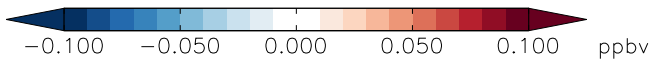
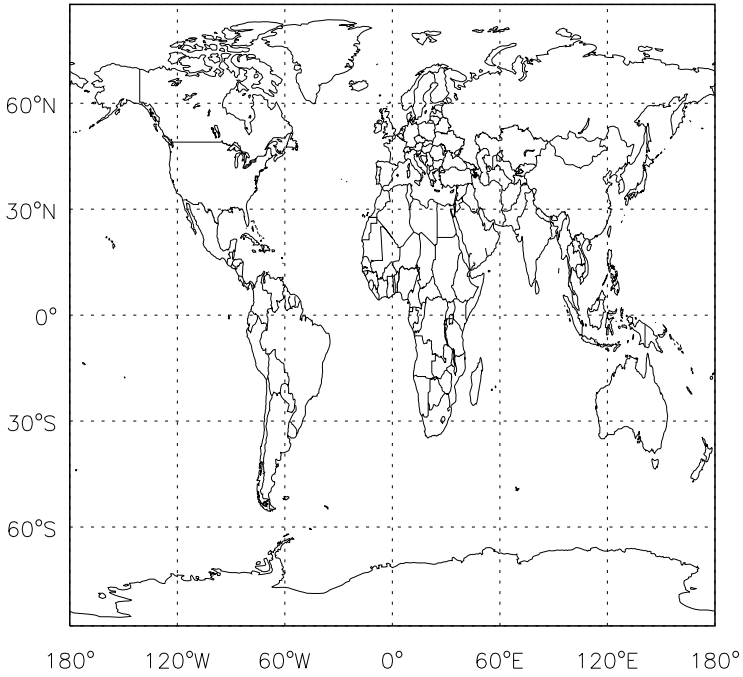
CIO - Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

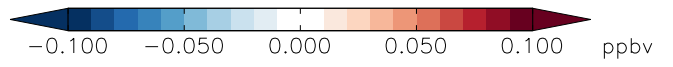
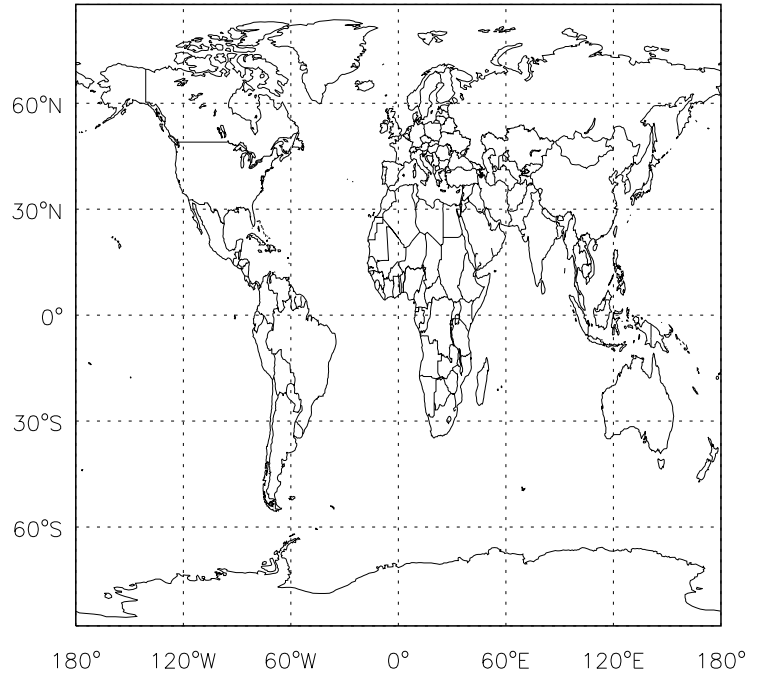
v11-01g-Run0 - v11-01f-geosfp-Run0

HOCl - Diff @ Surface for Jan



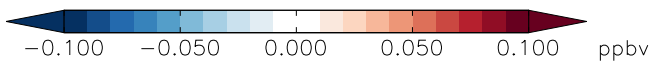
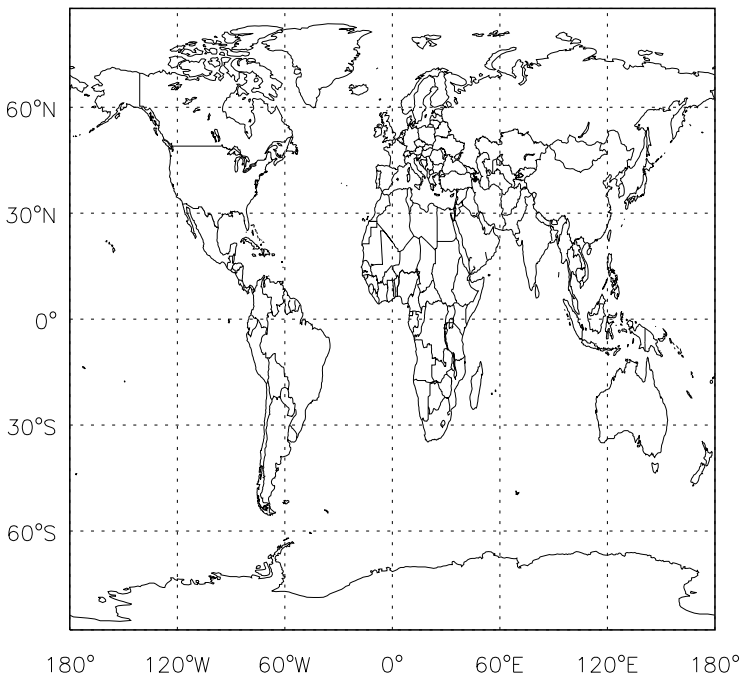
v11-01g-Run0 - v11-01f-geosfp-Run0

HOCl- Diff @ 500 hPa for Jan



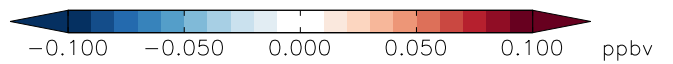
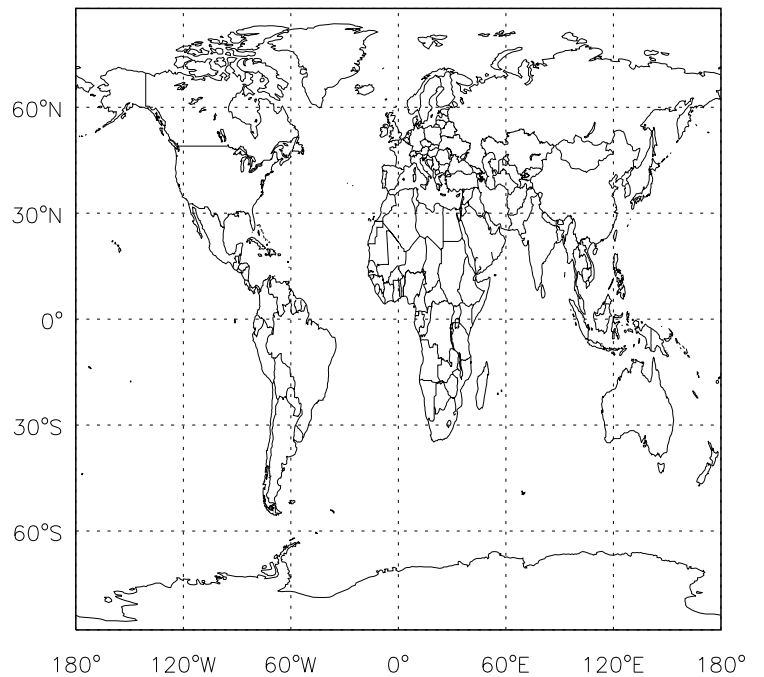
v11-01g-Run0 - v11-01d-Run1

HOCl - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

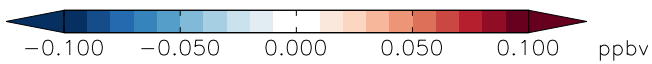
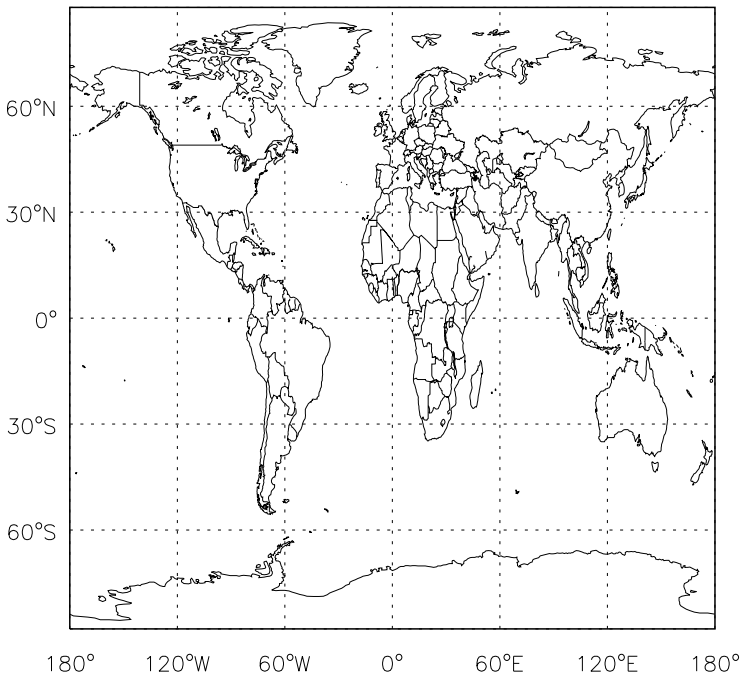
HOCl- Diff @ 500 hPa for Jan



GEOS-Chem Difference Maps at surface and 500 hPa

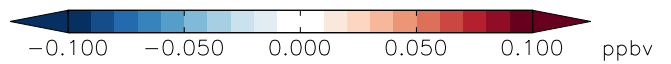
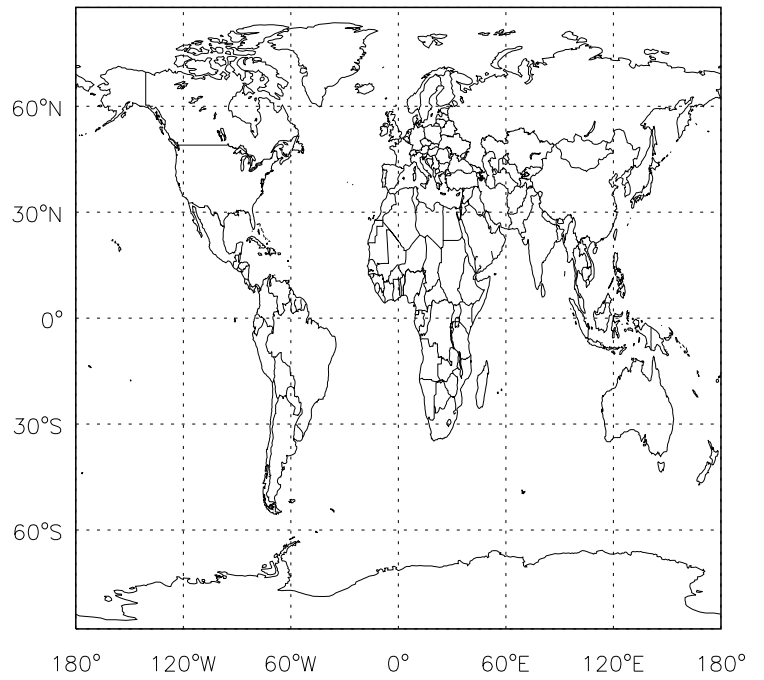
v11-01g-Run0 - v11-01f-geosfp-Run0

CINO3 - Diff @ Surface for Jan



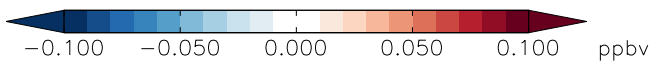
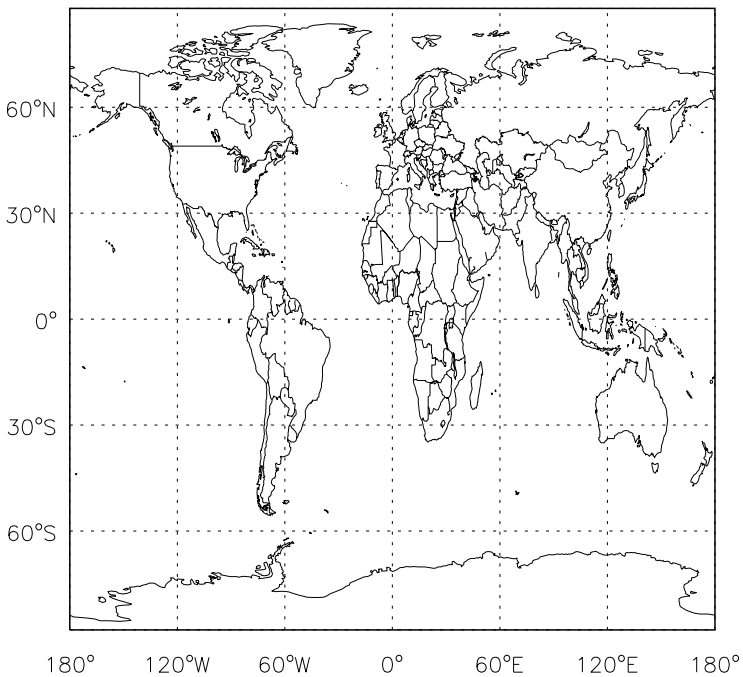
v11-01g-Run0 - v11-01f-geosfp-Run0

CINO3- Diff @ 500 hPa for Jan



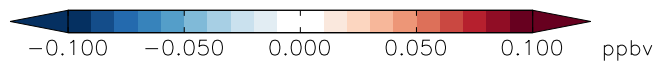
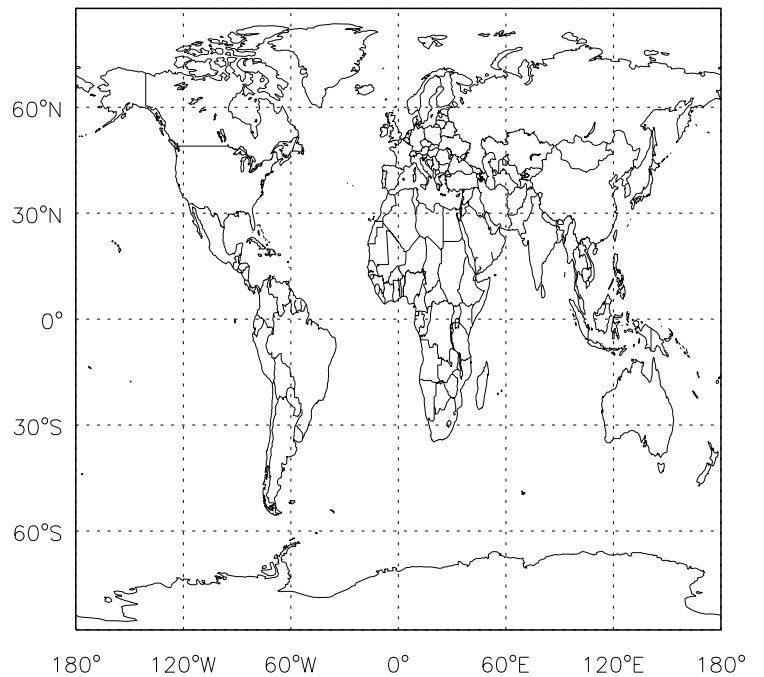
v11-01g-Run0 - v11-01d-Run1

CINO3 - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

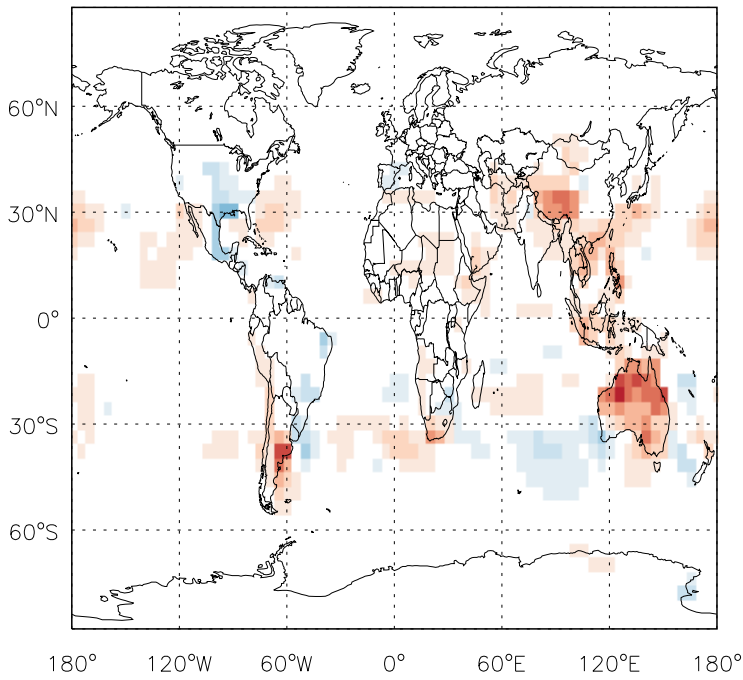
CINO3- Diff @ 500 hPa for Jan



# GEOS-Chem Difference Maps at surface and 500 hPa

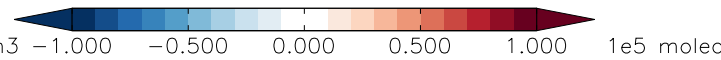
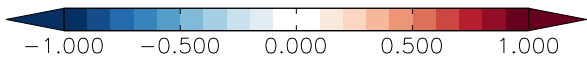
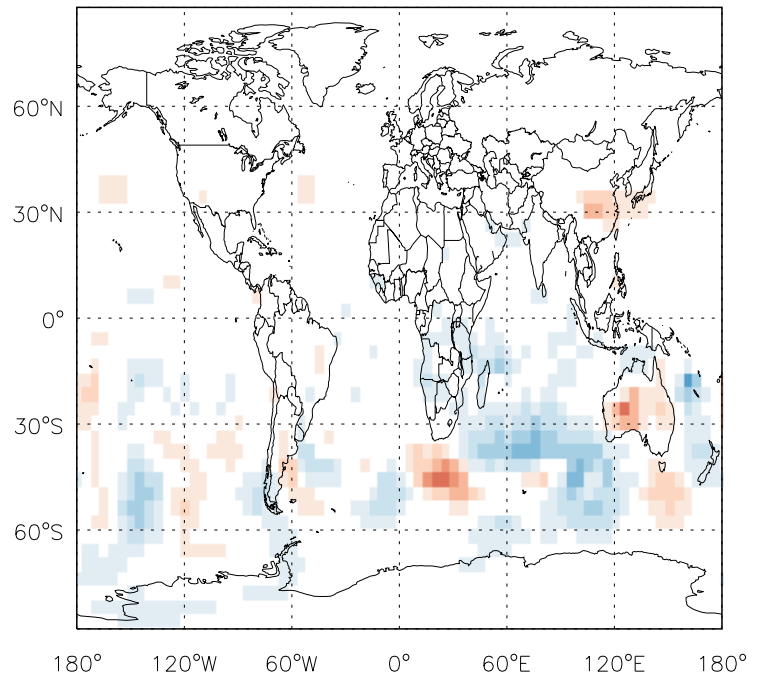
v11-01g-Run0 - v11-01f-geosfp-Run0

OH - Diff @ Surface for Jan



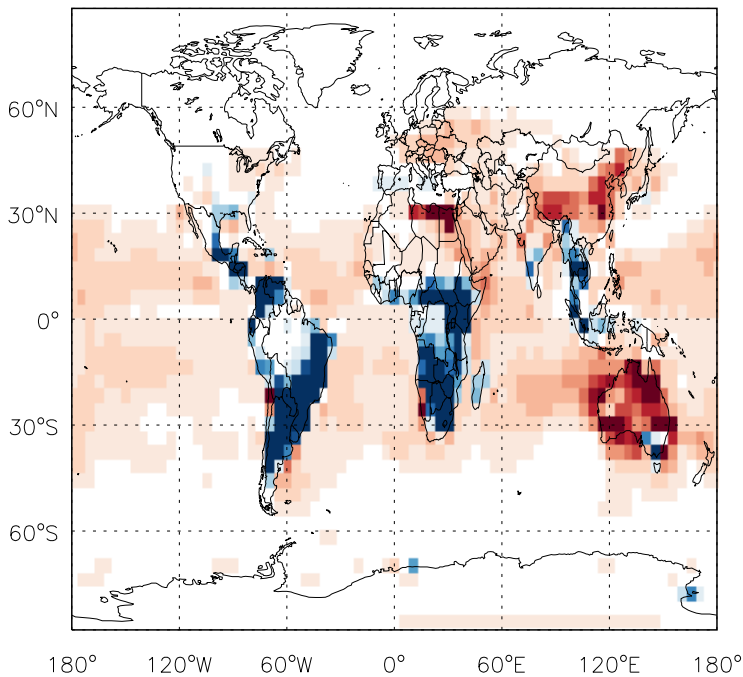
v11-01g-Run0 - v11-01f-geosfp-Run0

OH- Diff @ 500 hPa for Jan



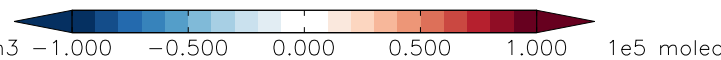
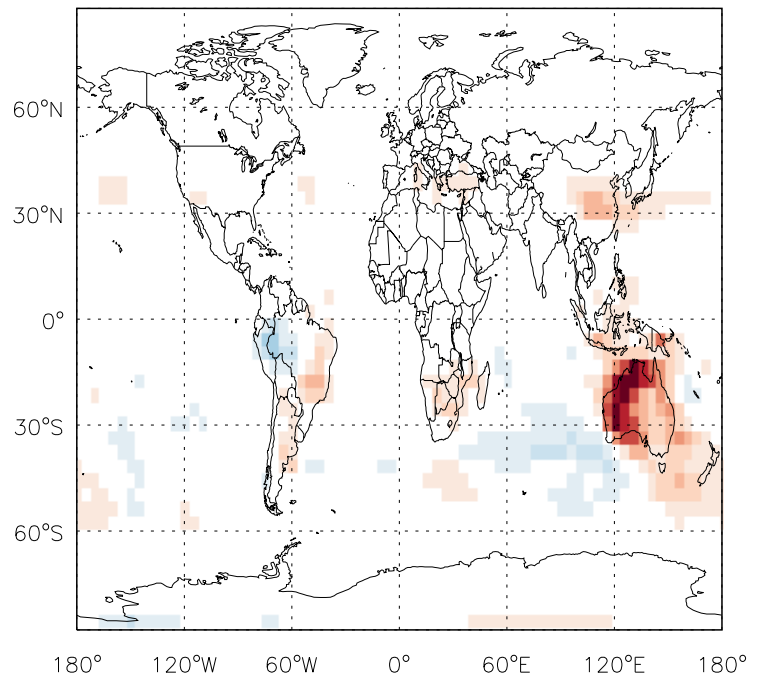
v11-01g-Run0 - v11-01d-Run1

OH - Diff @ Surface for Jan



v11-01g-Run0 - v11-01d-Run1

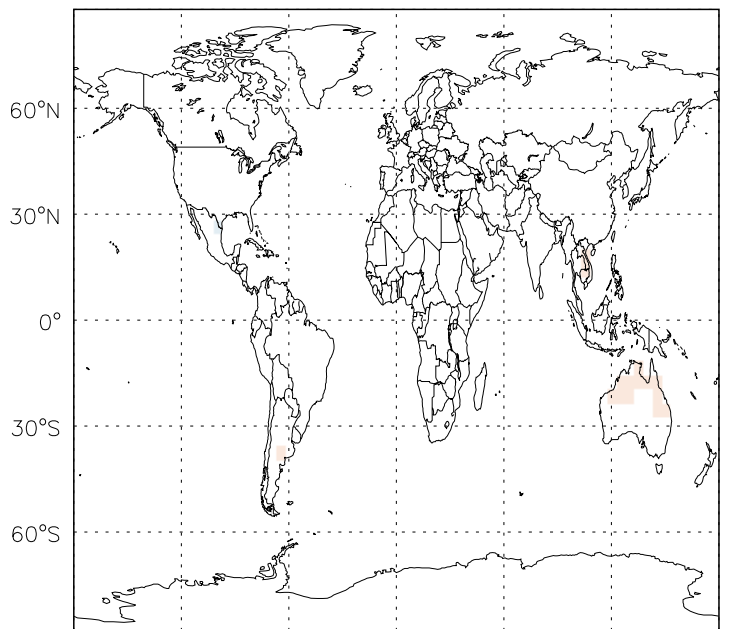
OH- Diff @ 500 hPa for Jan



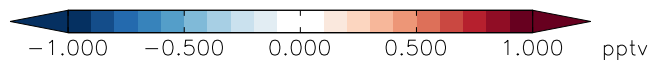
# GEOS-Chem Difference Maps at surface and 500 hPa

v11-01g-Run0 - v11-01f-geosfp-Run0

H<sub>2</sub> - Diff @ Surface for Jan

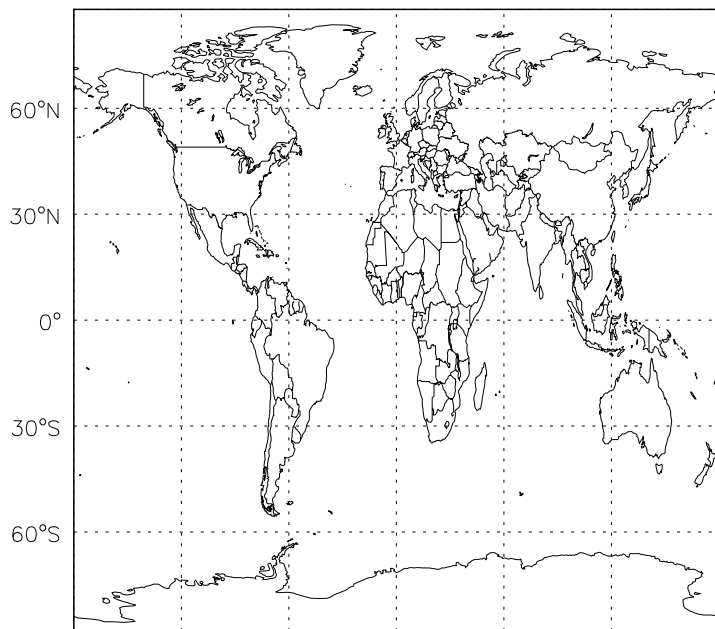


180° 120°W 60°W 0° 60°E 120°E 180°

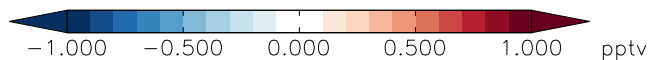


v11-01g-Run0 - v11-01f-geosfp-Run0

H<sub>2</sub> - Diff @ 500 hPa for Jan

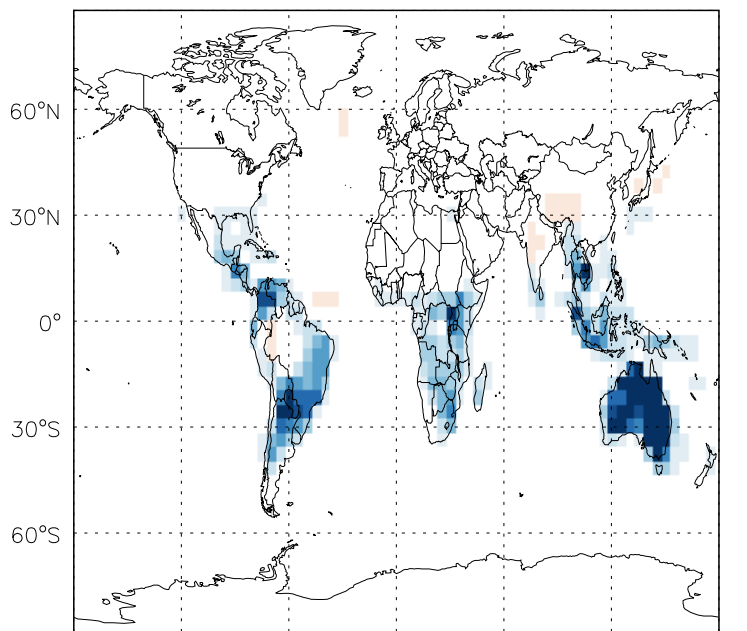


180° 120°W 60°W 0° 60°E 120°E 180°

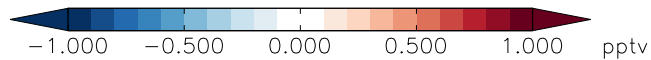


v11-01g-Run0 - v11-01d-Run1

H<sub>2</sub> - Diff @ Surface for Jan

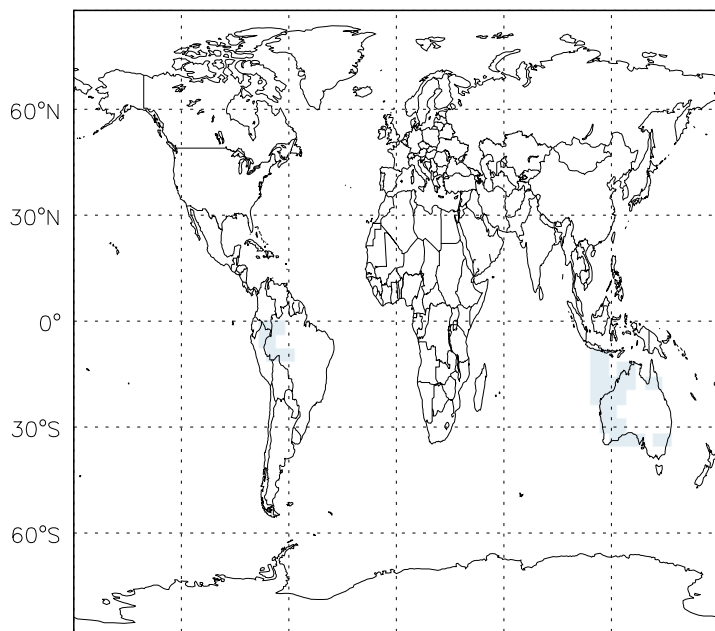


180° 120°W 60°W 0° 60°E 120°E 180°



v11-01g-Run0 - v11-01d-Run1

H<sub>2</sub> - Diff @ 500 hPa for Jan



180° 120°W 60°W 0° 60°E 120°E 180°

