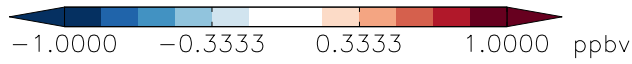
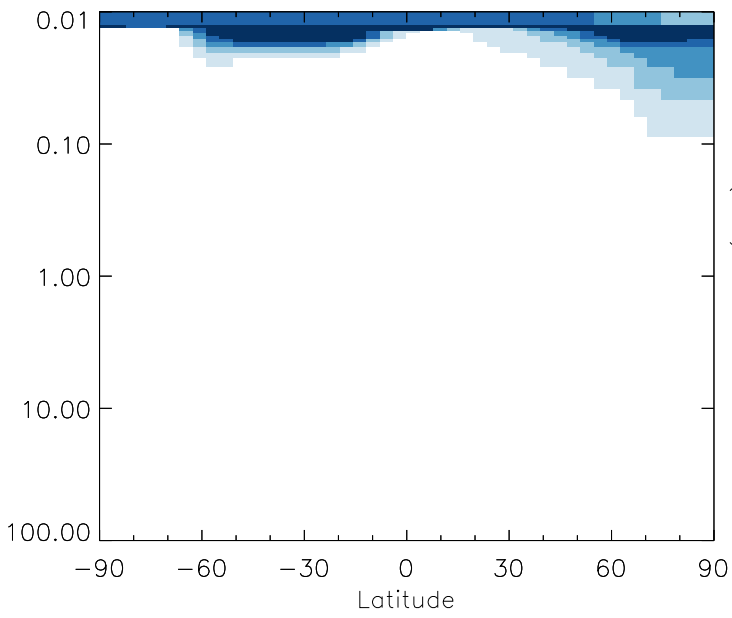


GEOS-Chem Stratospheric Zonal Difference Maps

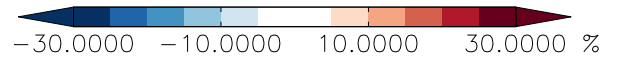
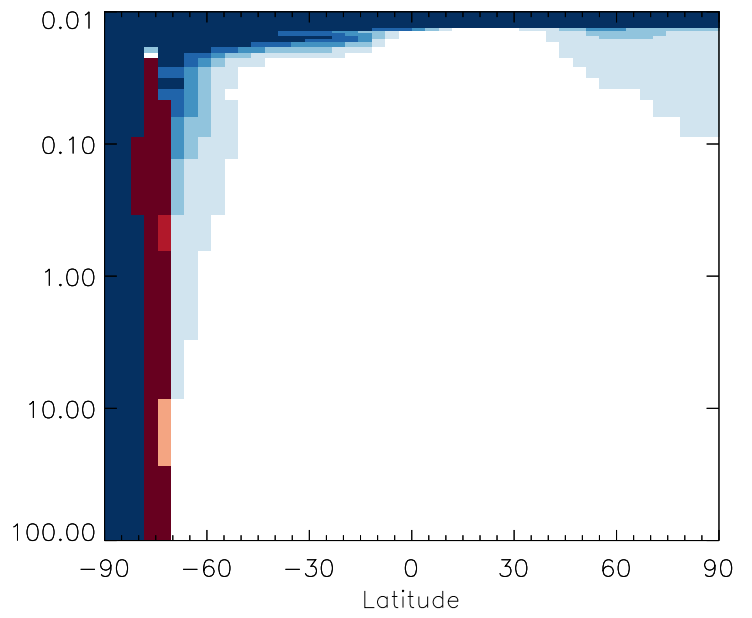
v11-01g-Run0 - v11-01f-geosfp-Run0

NO - Strat zonal mean abs diff for Jul



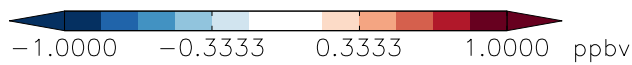
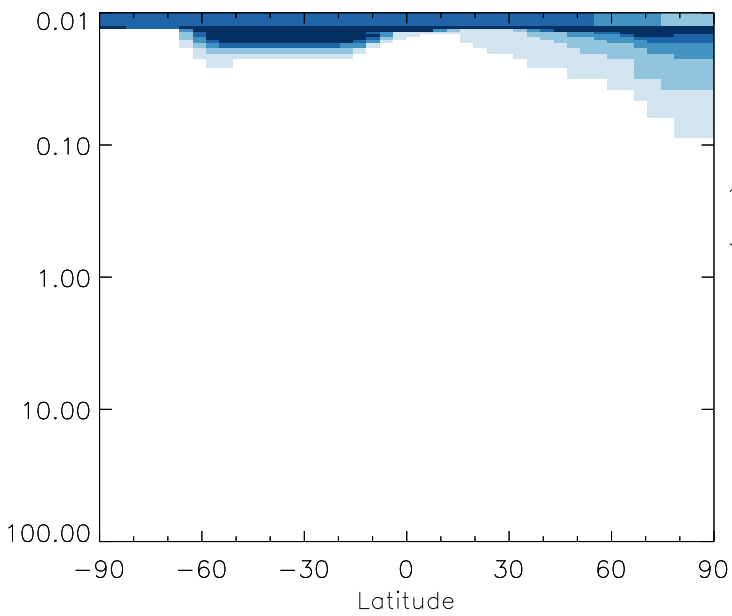
v11-01g-Run0 / v11-01f-geosfp-Run0

NO - Strat zonal mean % diff for Jul



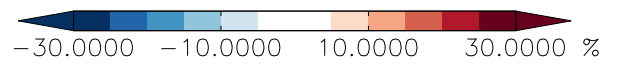
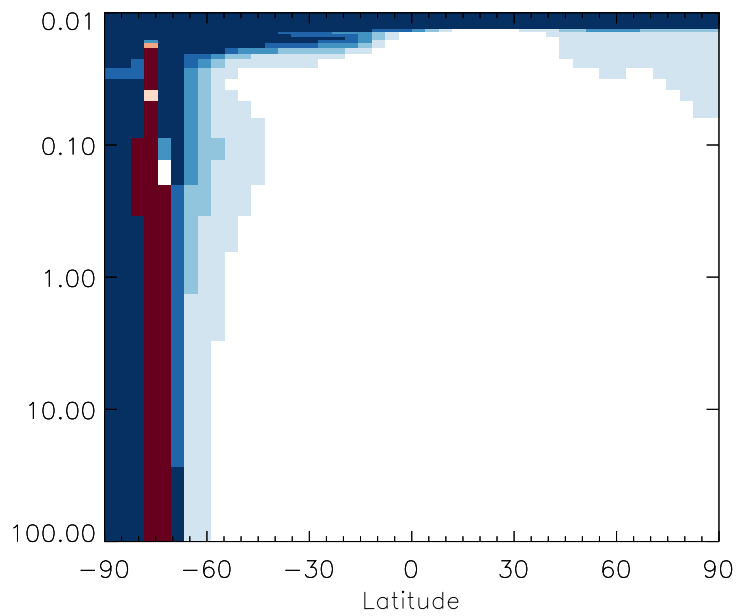
v11-01g-Run0 - v11-01d-Run1

NO - Strat zonal mean abs diff for Jul



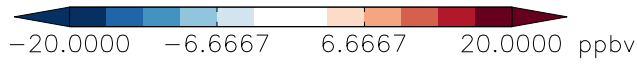
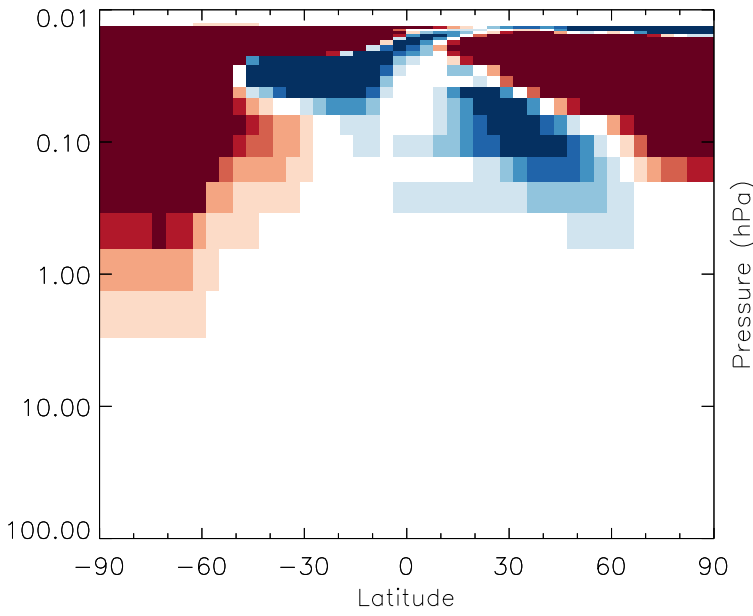
v11-01g-Run0 / v11-01d-Run1

NO - Strat zonal mean % diff for Jul

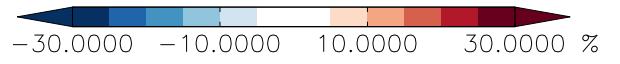
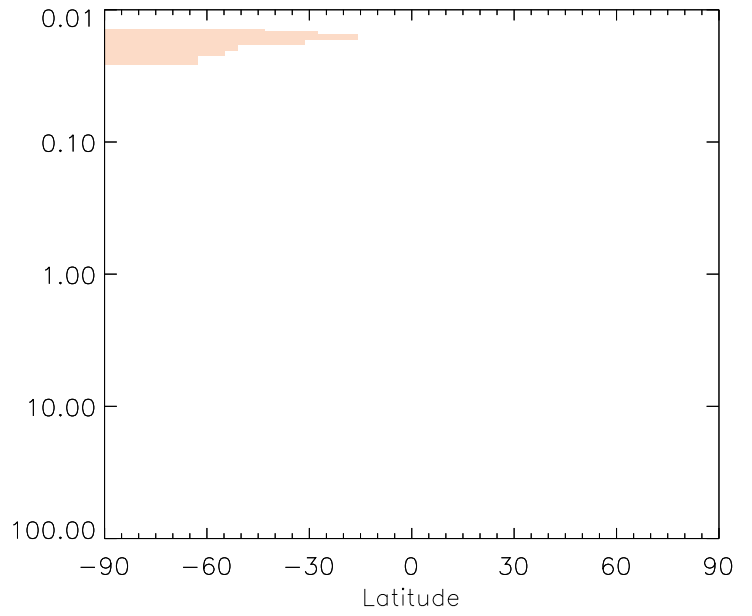


GEOS-Chem Stratospheric Zonal Difference Maps

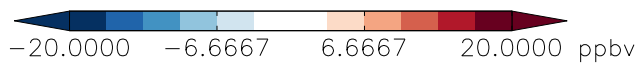
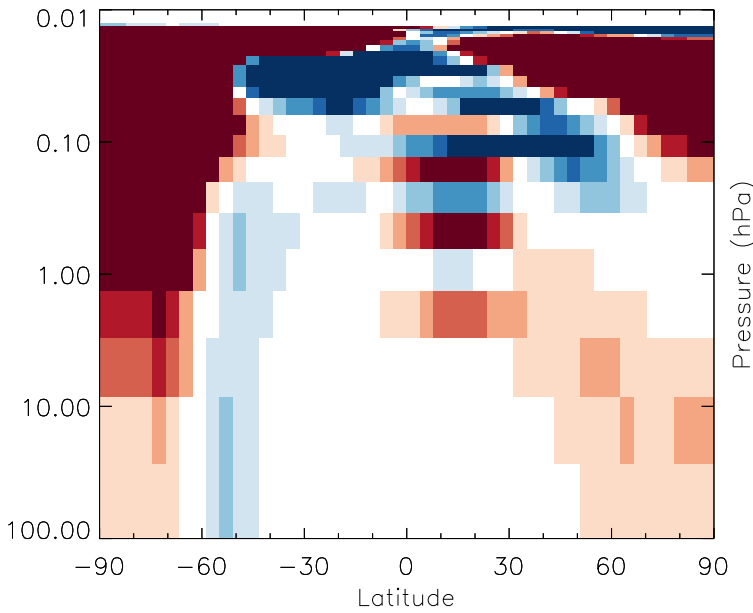
v11-01g-Run0 - v11-01f-geosfp-Run0  
O3 - Strat zonal mean abs diff for Jul



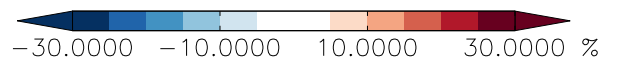
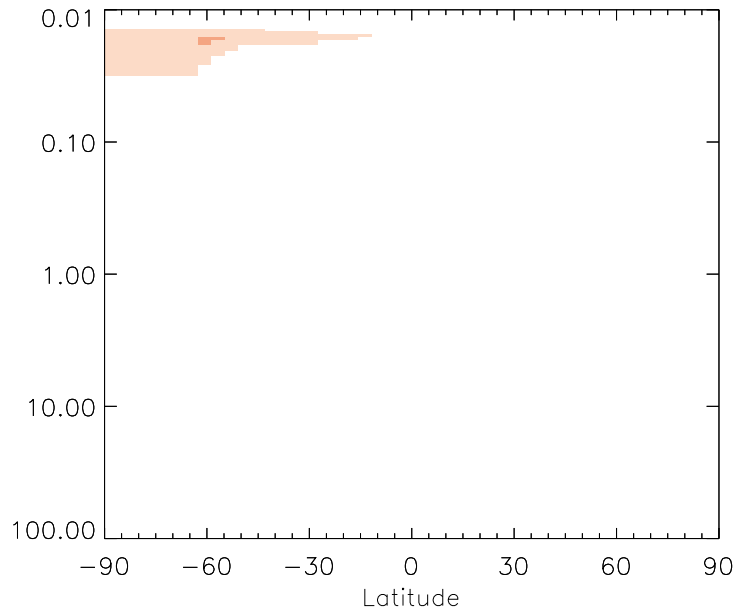
v11-01g-Run0 / v11-01f-geosfp-Run0  
O3 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
O3 - Strat zonal mean abs diff for Jul



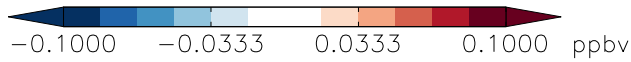
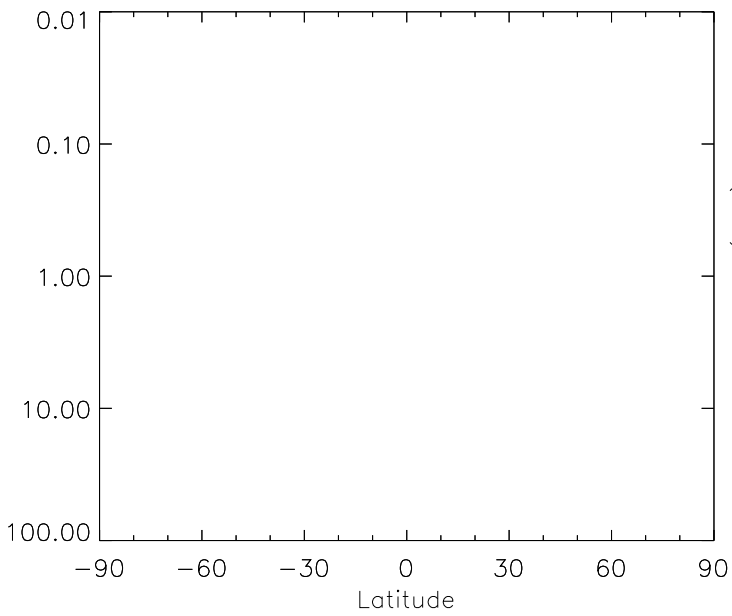
v11-01g-Run0 / v11-01d-Run1  
O3 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

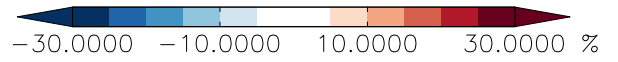
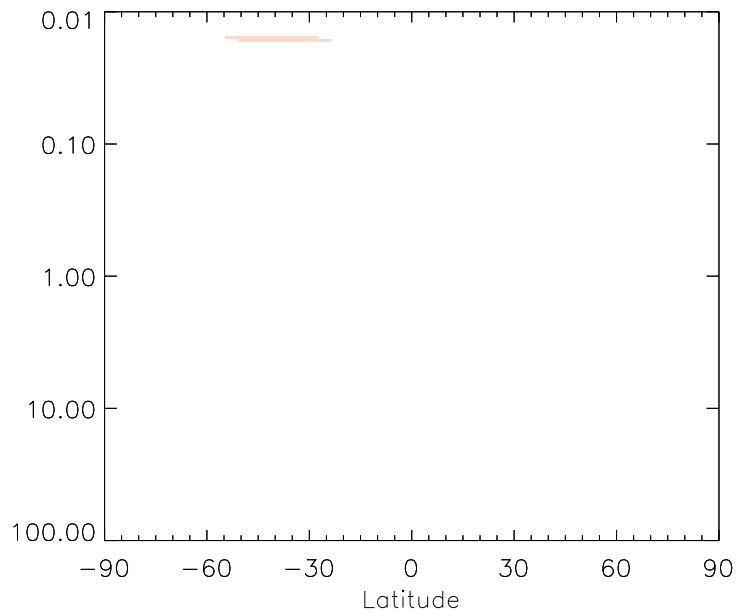
v11-01g-Run0 - v11-01f-geosfp-Run0

PAN - Strat zonal mean abs diff for Jul



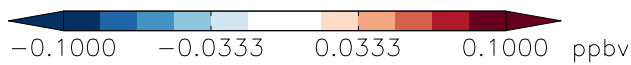
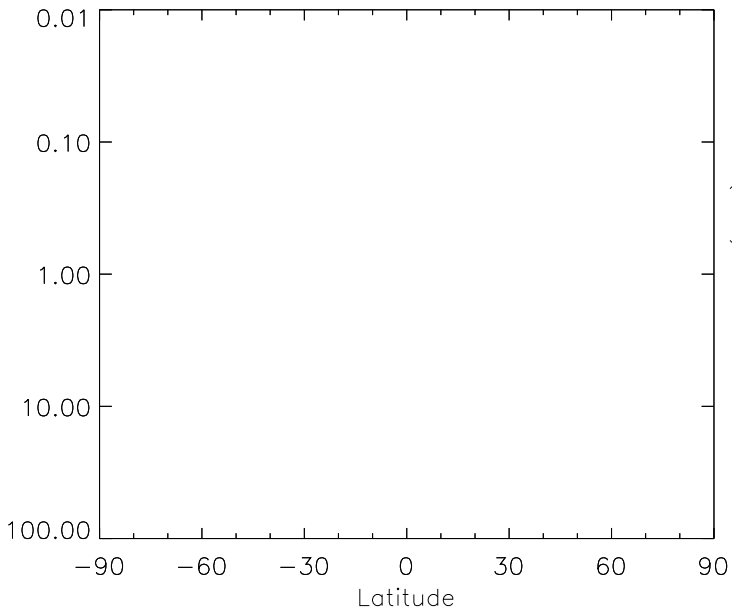
v11-01g-Run0 / v11-01f-geosfp-Run0

PAN - Strat zonal mean % diff for Jul



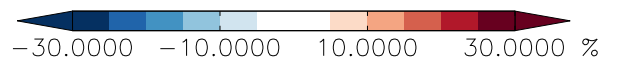
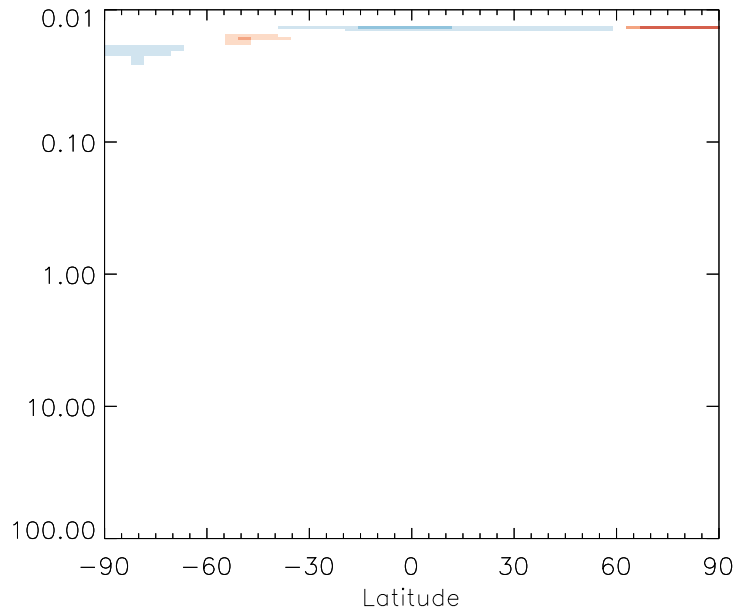
v11-01g-Run0 - v11-01d-Run1

PAN - Strat zonal mean abs diff for Jul



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

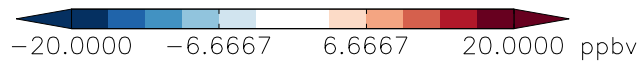
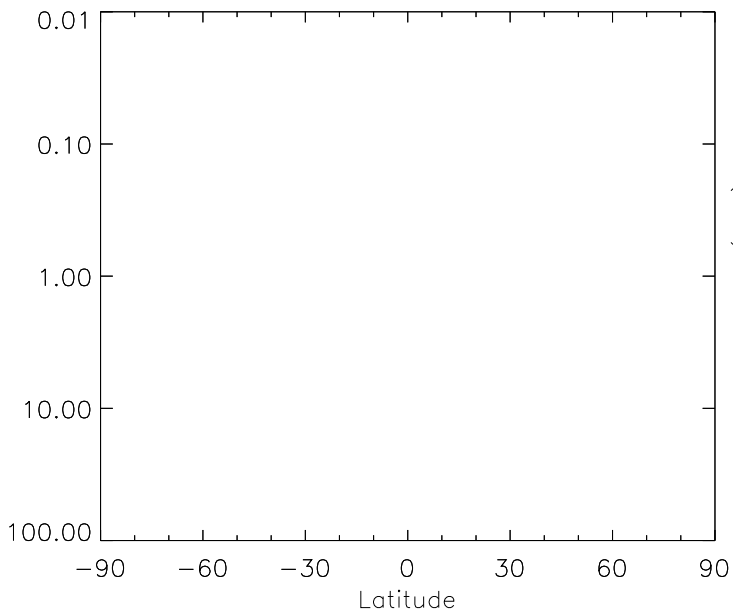
PAN - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

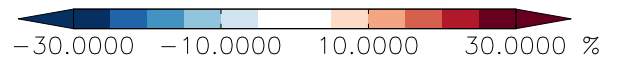
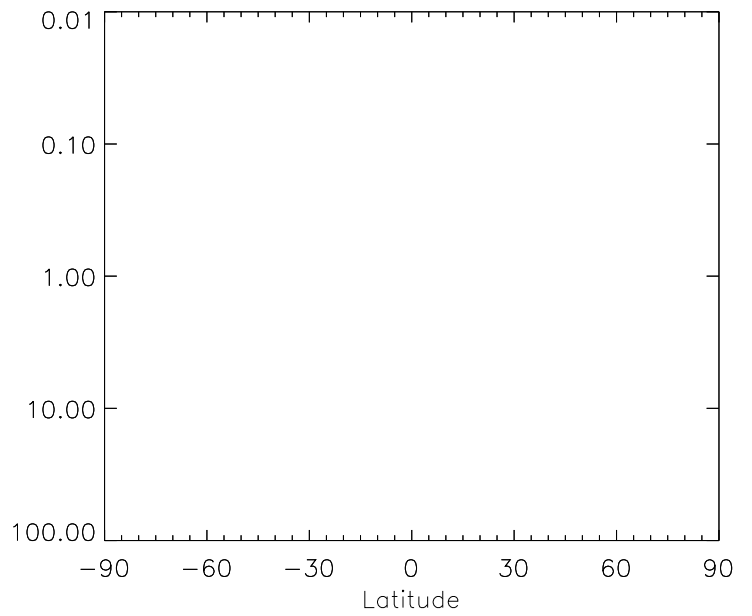
v11-01g-Run0 - v11-01f-geosfp-Run0

CO - Strat zonal mean abs diff for Jul



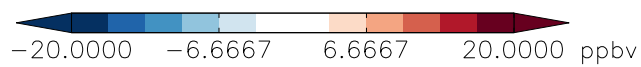
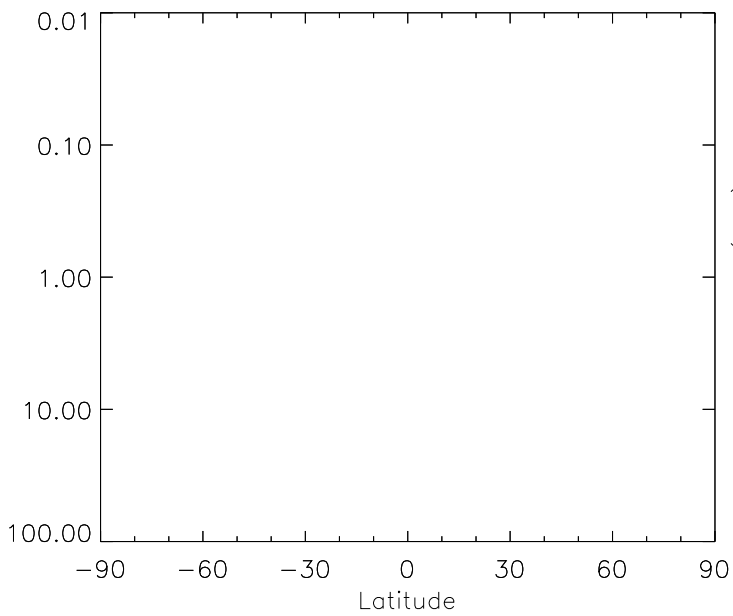
v11-01g-Run0 / v11-01f-geosfp-Run0

CO - Strat zonal mean % diff for Jul



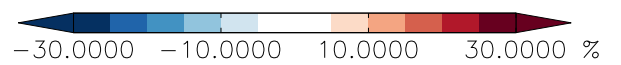
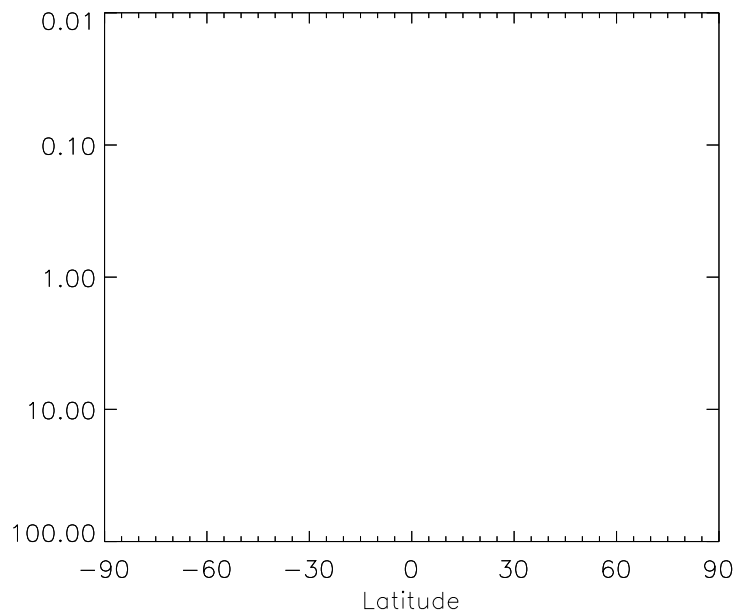
v11-01g-Run0 - v11-01d-Run1

CO - Strat zonal mean abs diff for Jul



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

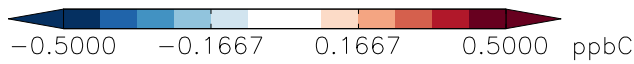
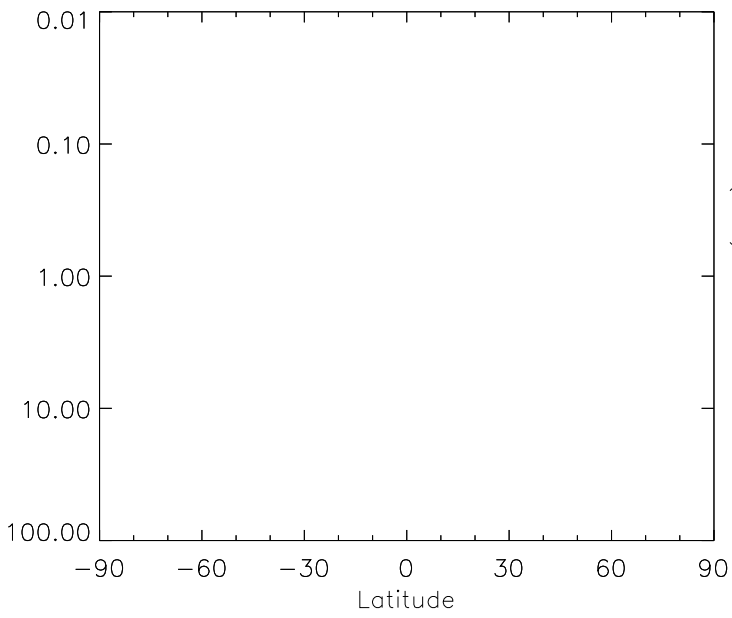
CO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

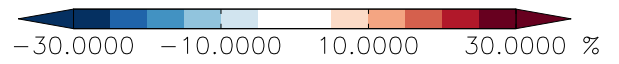
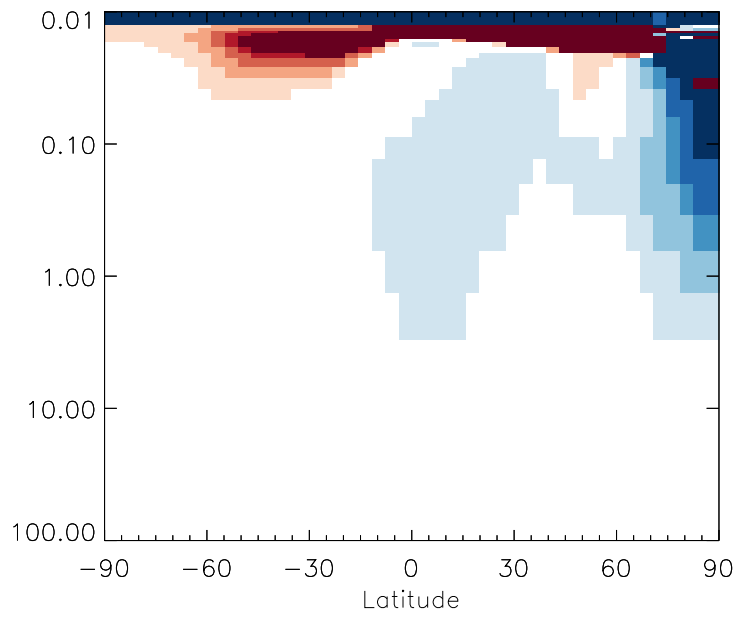
v11-01g-Run0 - v11-01f-geosfp-Run0

ALK4 - Strat zonal mean abs diff for Jul



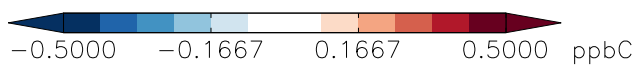
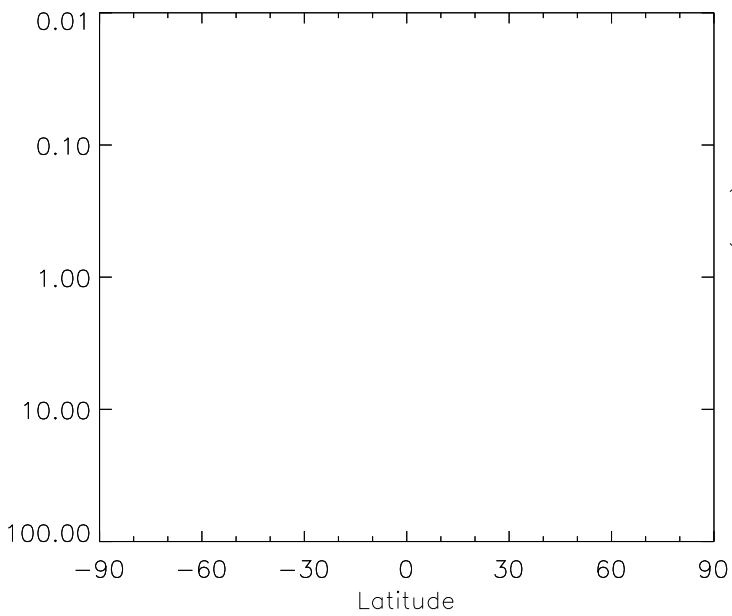
v11-01g-Run0 / v11-01f-geosfp-Run0

ALK4 - Strat zonal mean % diff for Jul



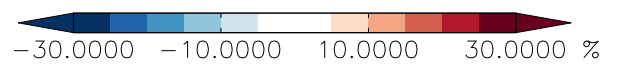
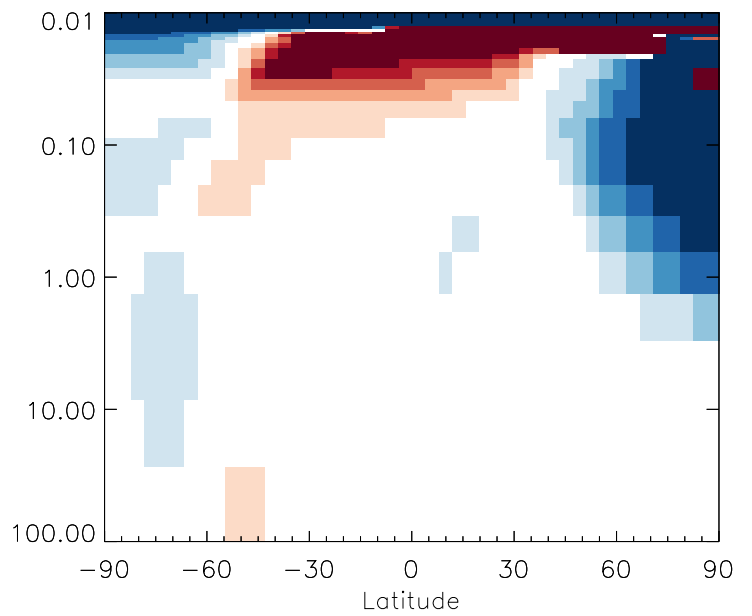
v11-01g-Run0 - v11-01d-Run1

ALK4 - Strat zonal mean abs diff for Jul



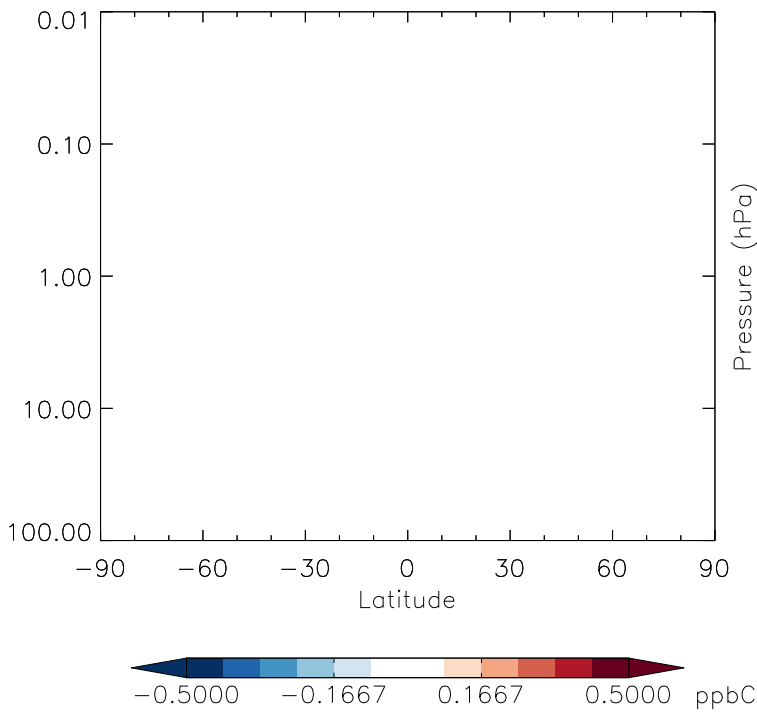
v11-01g-Run0 / v11-01d-Run1

ALK4 - Strat zonal mean % diff for Jul

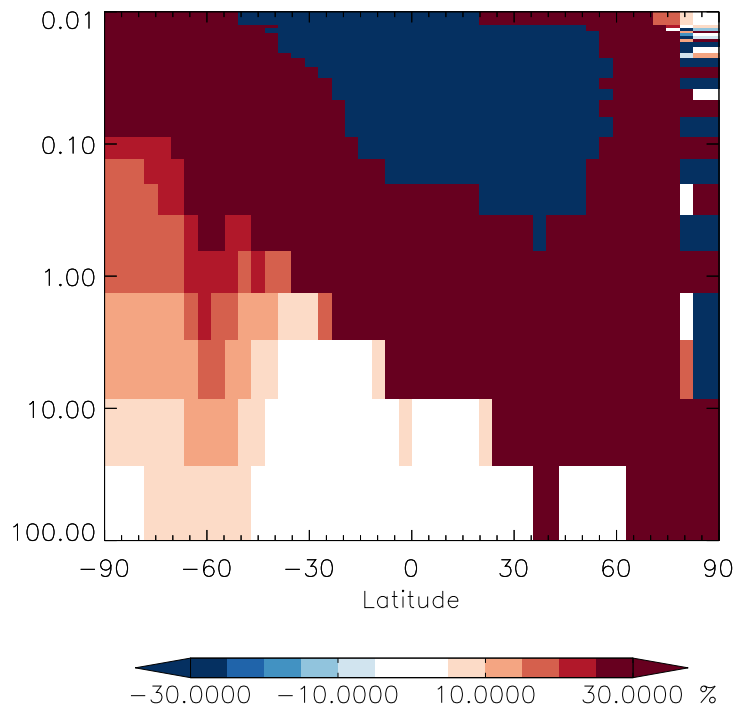


GEOS-Chem Stratospheric Zonal Difference Maps

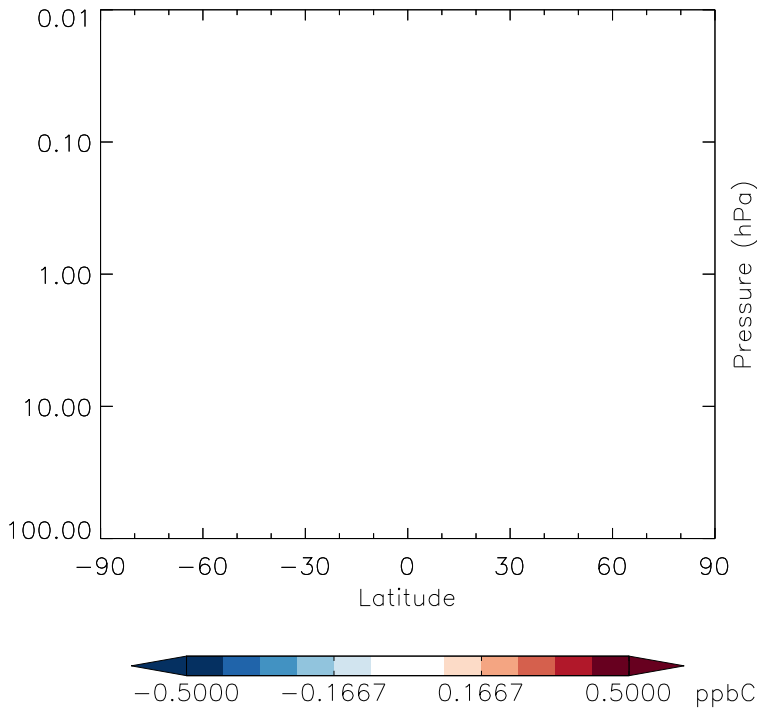
v11-01g-Run0 - v11-01f-geosfp-Run0  
ISOP - Strat zonal mean abs diff for Jul



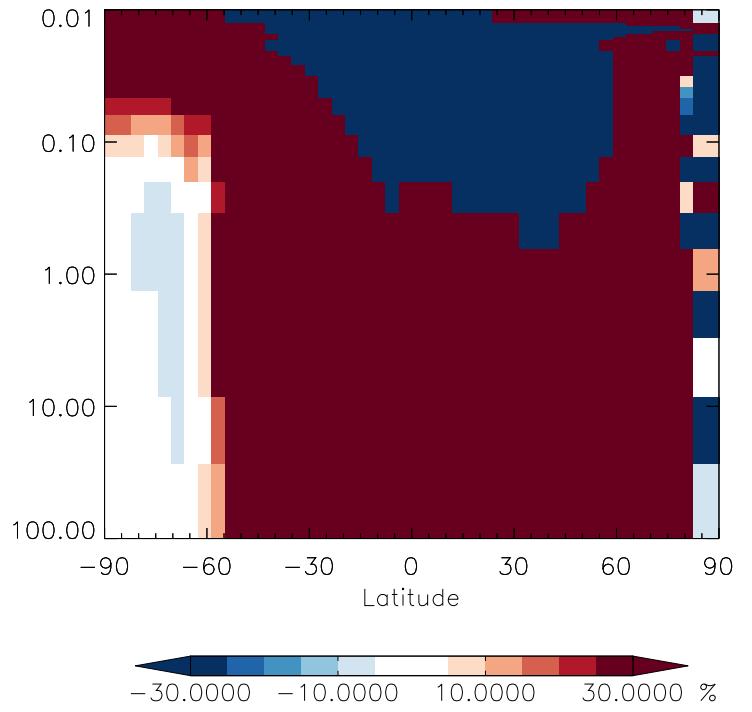
v11-01g-Run0 / v11-01f-geosfp-Run0  
ISOP - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
ISOP - Strat zonal mean abs diff for Jul



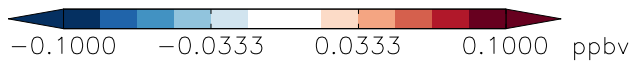
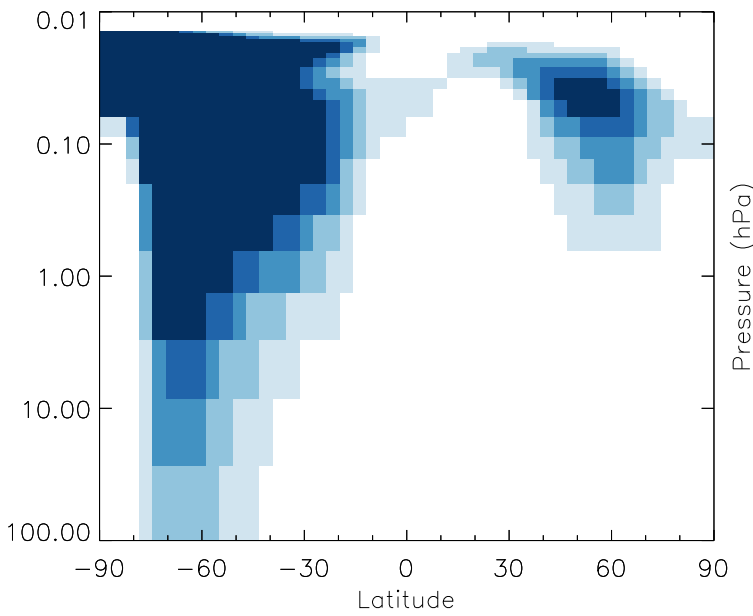
v11-01g-Run0 / v11-01d-Run1  
ISOP - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

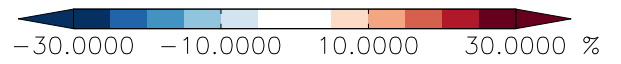
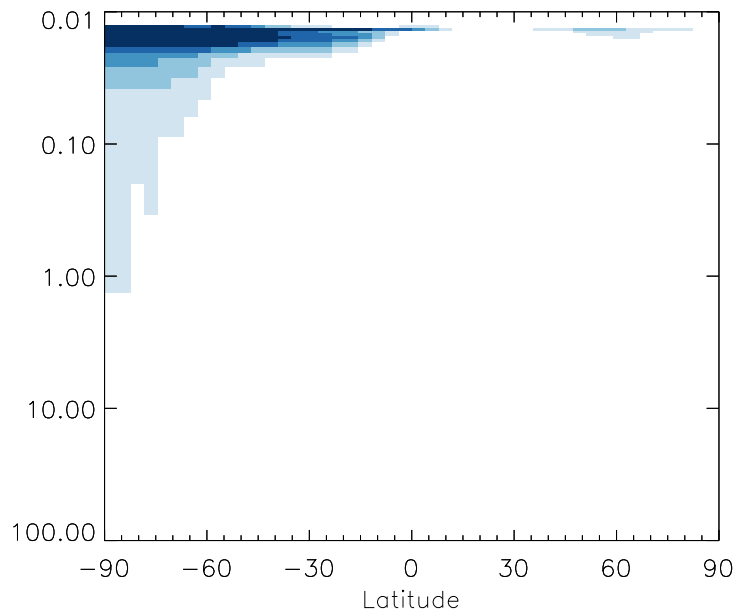
v11-01g-Run0 - v11-01f-geosfp-Run0

HNO<sub>3</sub> - Strat zonal mean abs diff for Jul



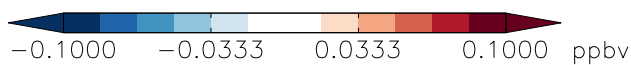
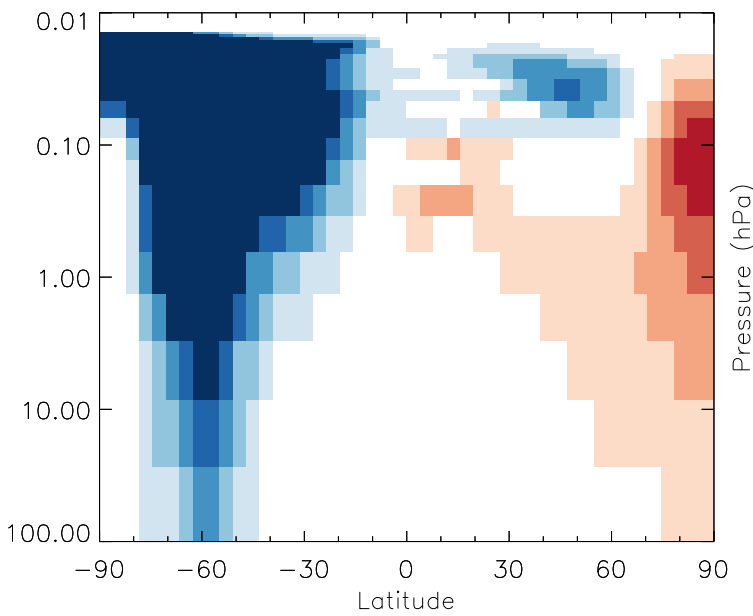
v11-01g-Run0 / v11-01f-geosfp-Run0

HNO<sub>3</sub> - Strat zonal mean % diff for Jul



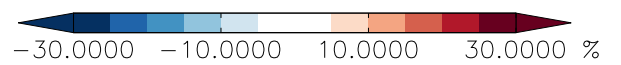
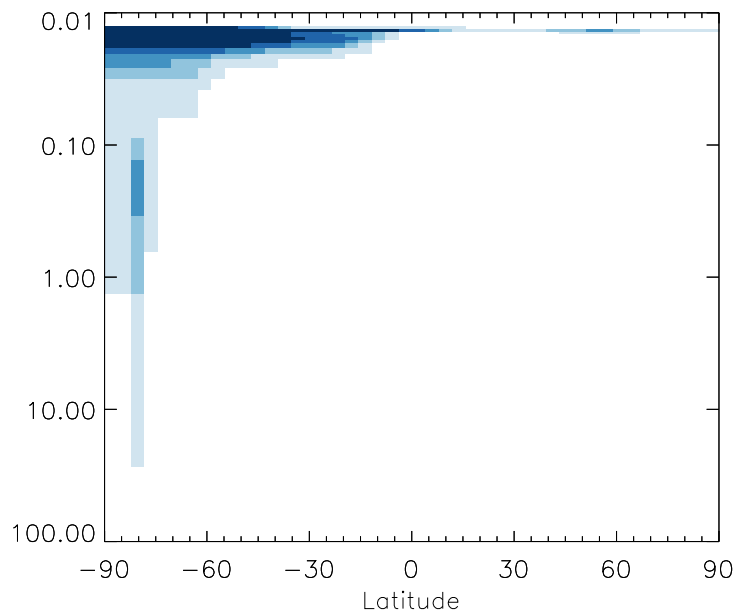
v11-01g-Run0 - v11-01d-Run1

HNO<sub>3</sub> - Strat zonal mean abs diff for Jul



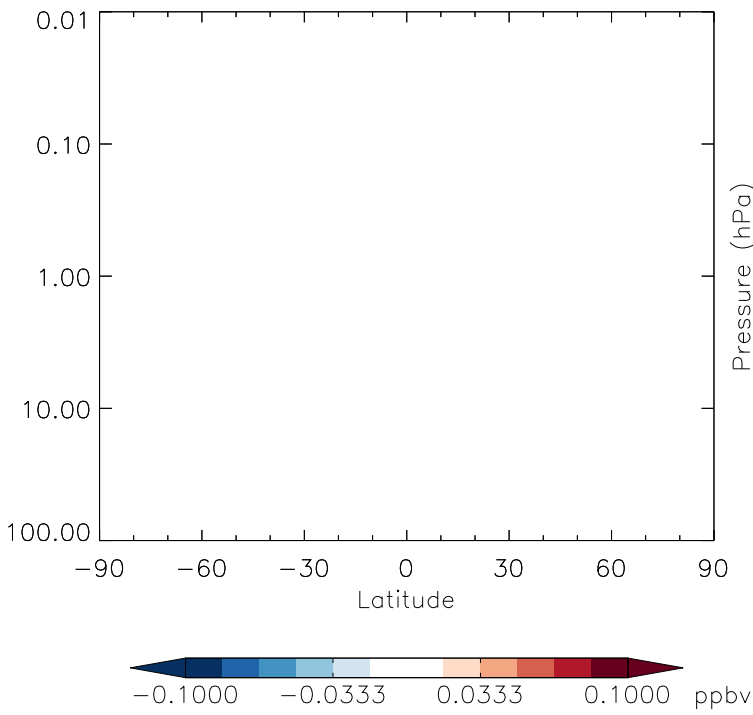
v11-01g-Run0 / v11-01d-Run1

HNO<sub>3</sub> - Strat zonal mean % diff for Jul

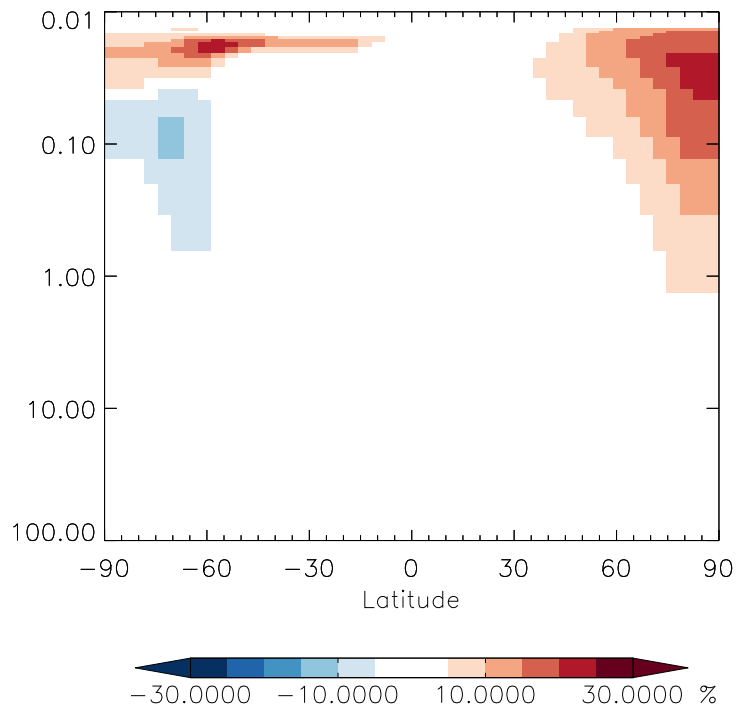


GEOS-Chem Stratospheric Zonal Difference Maps

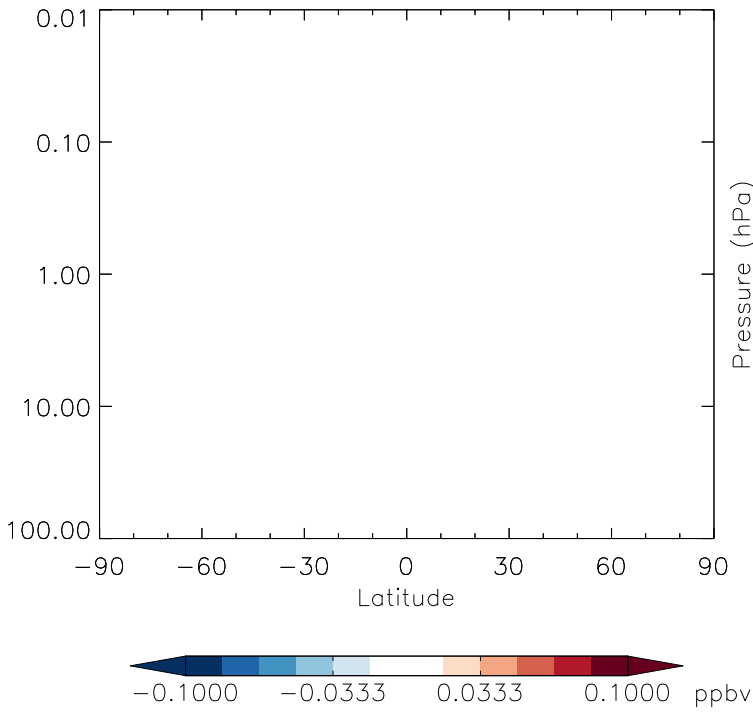
v11-01g-Run0 - v11-01f-geosfp-Run0  
H2O2 - Strat zonal mean abs diff for Jul



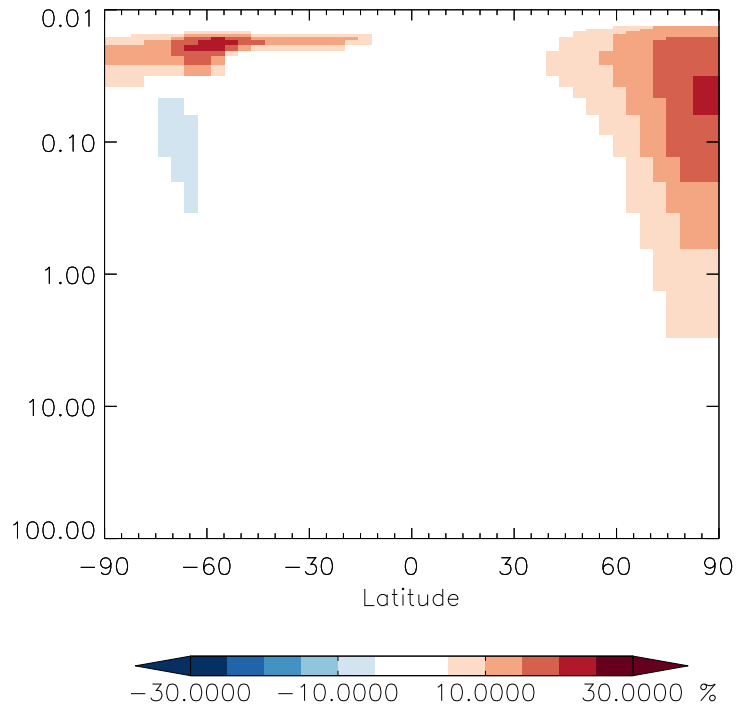
v11-01g-Run0 / v11-01f-geosfp-Run0  
H2O2 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
H2O2 - Strat zonal mean abs diff for Jul



v11-01g-Run0 / v11-01d-Run1  
H2O2 - Strat zonal mean % diff for Jul

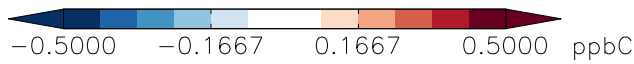
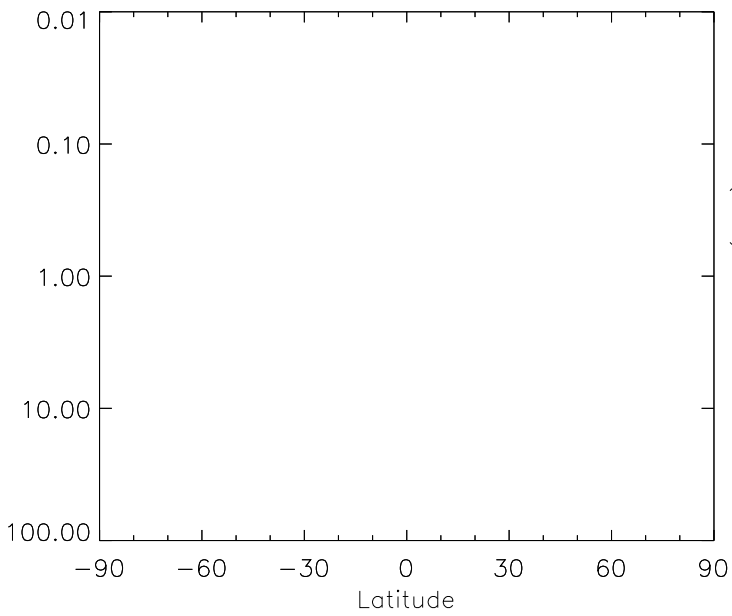




GEOS-Chem Stratospheric Zonal Difference Maps

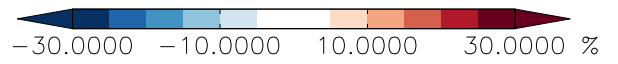
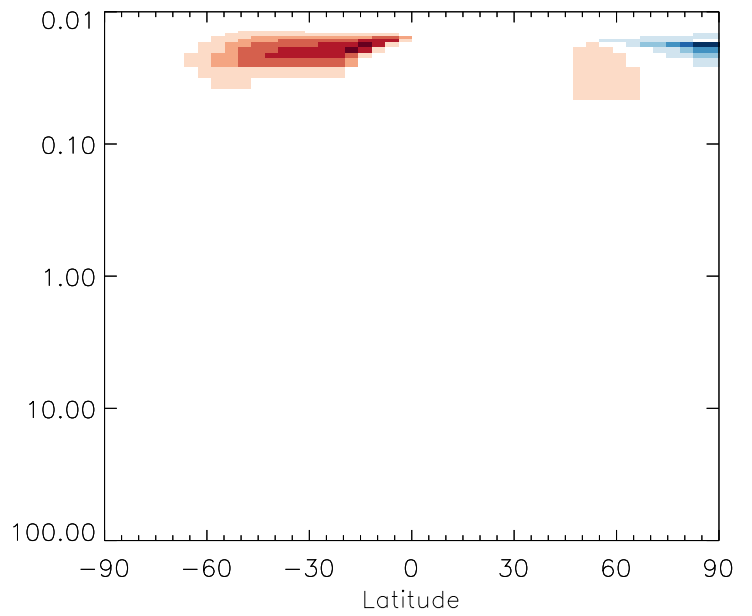
v11-01g-Run0 - v11-01f-geosfp-Run0

ACET - Strat zonal mean abs diff for Jul



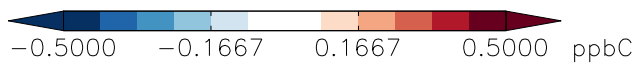
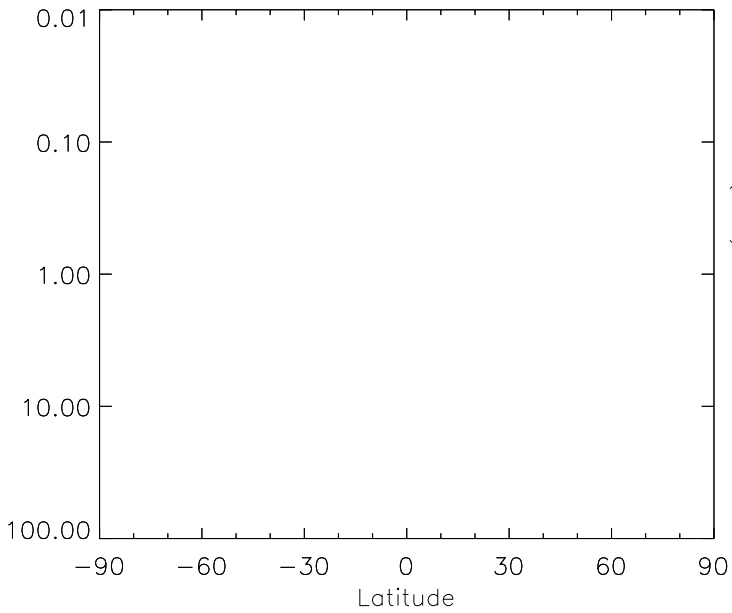
v11-01g-Run0 / v11-01f-geosfp-Run0

ACET - Strat zonal mean % diff for Jul



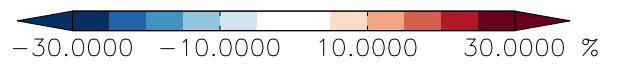
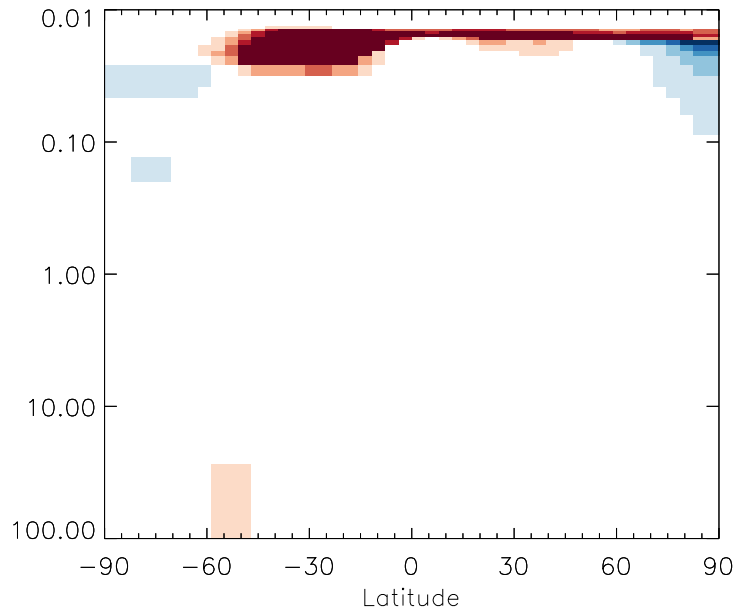
v11-01g-Run0 - v11-01d-Run1

ACET - Strat zonal mean abs diff for Jul



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

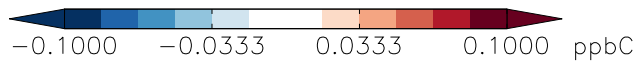
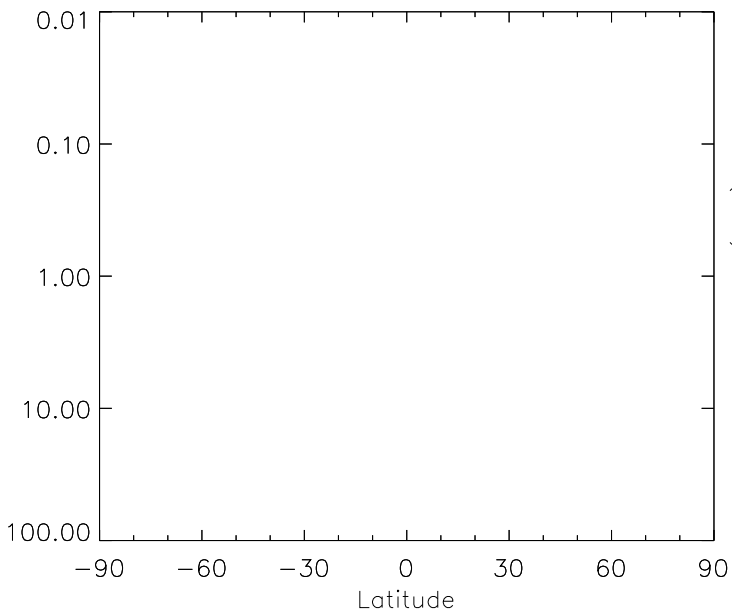
ACET - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

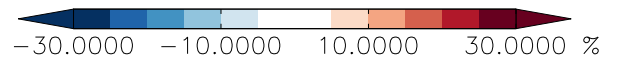
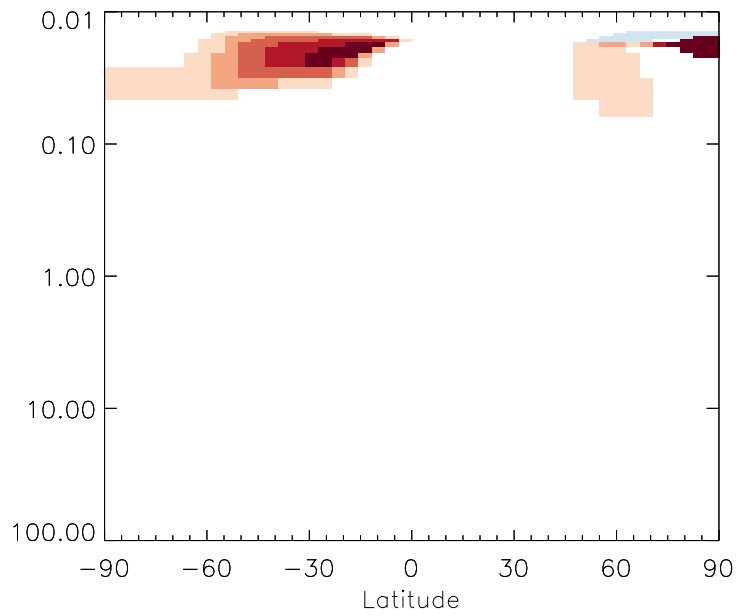
v11-01g-Run0 - v11-01f-geosp-Run0

MEK - Strat zonal mean abs diff for Jul



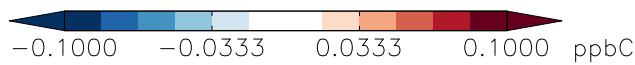
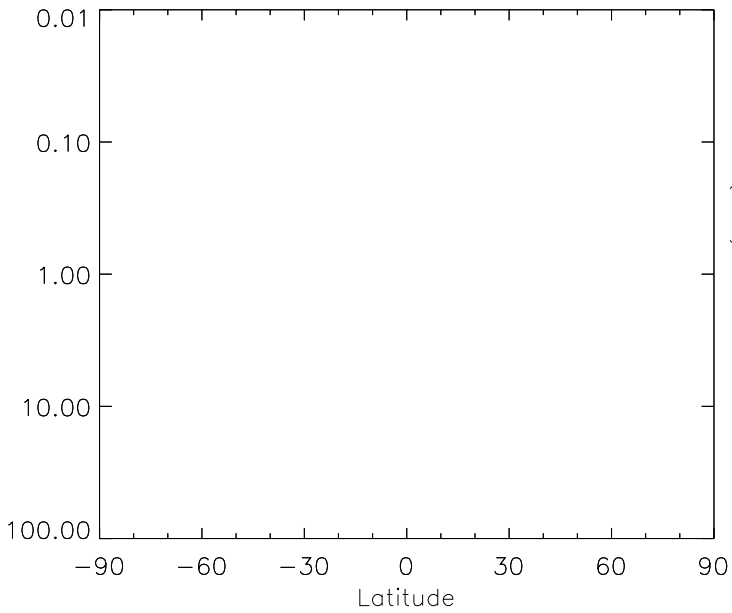
v11-01g-Run0 / v11-01f-geosp-Run0

MEK - Strat zonal mean % diff for Jul



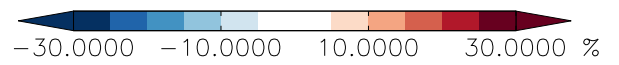
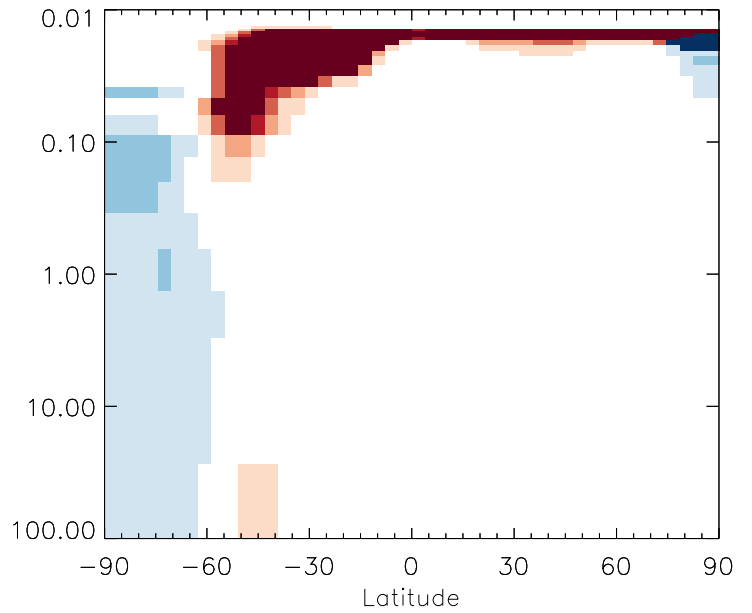
v11-01g-Run0 - v11-01d-Run1

MEK - Strat zonal mean abs diff for Jul



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

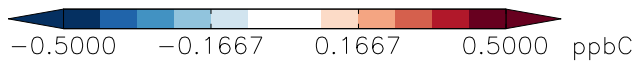
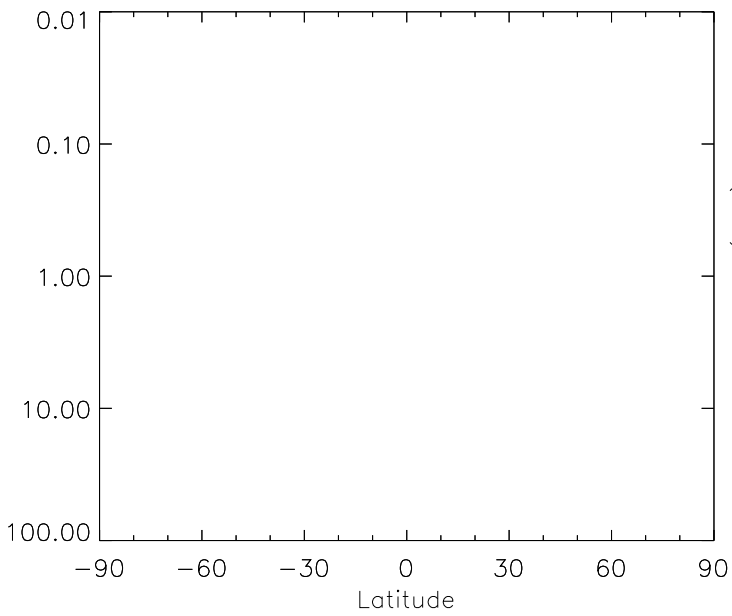
MEK - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

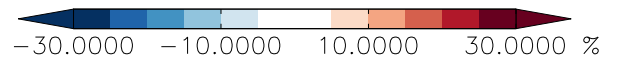
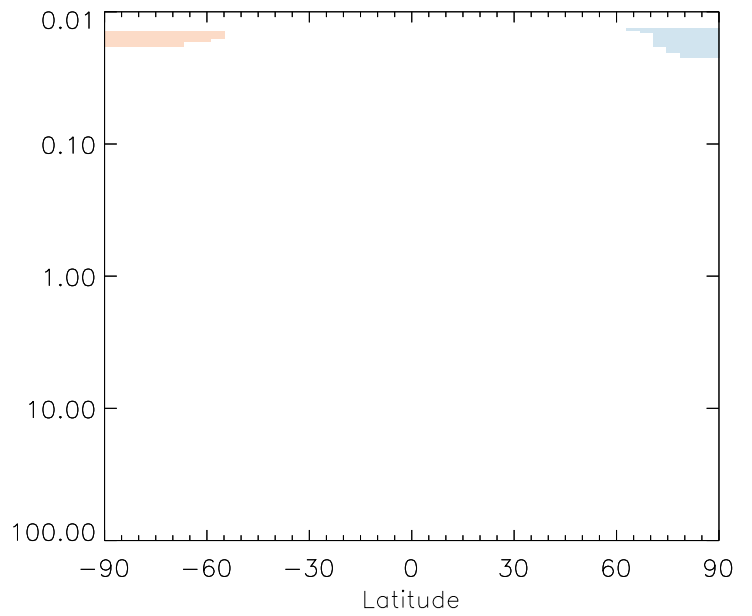
v11-01g-Run0 - v11-01f-geosfp-Run0

ALD2 - Strat zonal mean abs diff for Jul



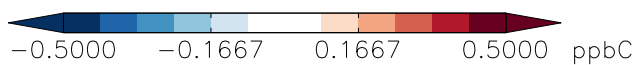
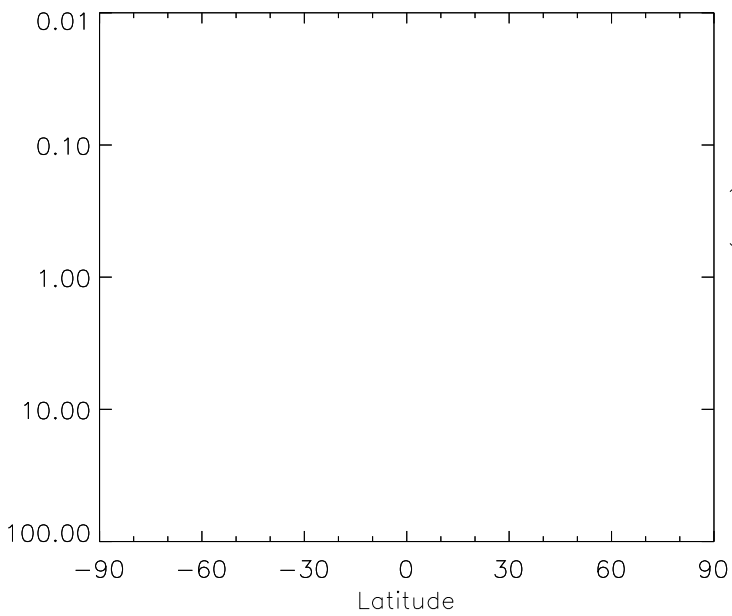
v11-01g-Run0 / v11-01f-geosfp-Run0

ALD2 - Strat zonal mean % diff for Jul



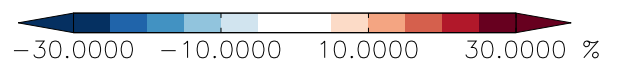
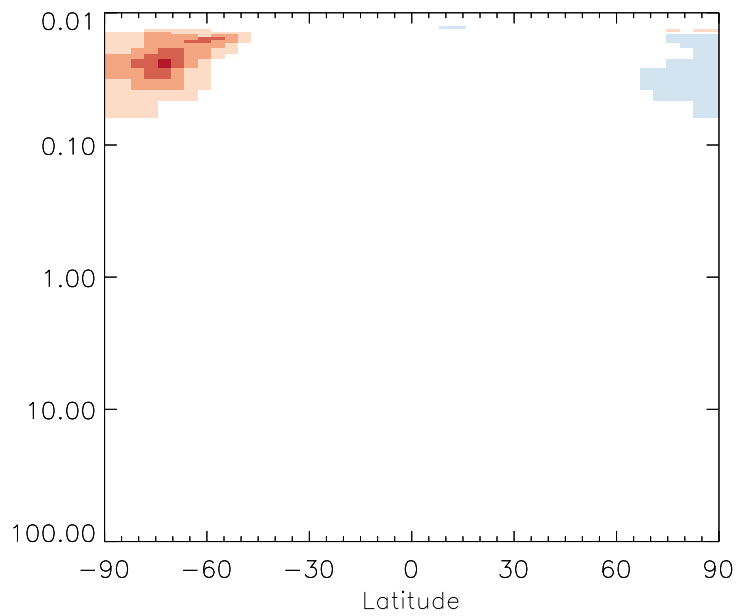
v11-01g-Run0 - v11-01d-Run1

ALD2 - Strat zonal mean abs diff for Jul



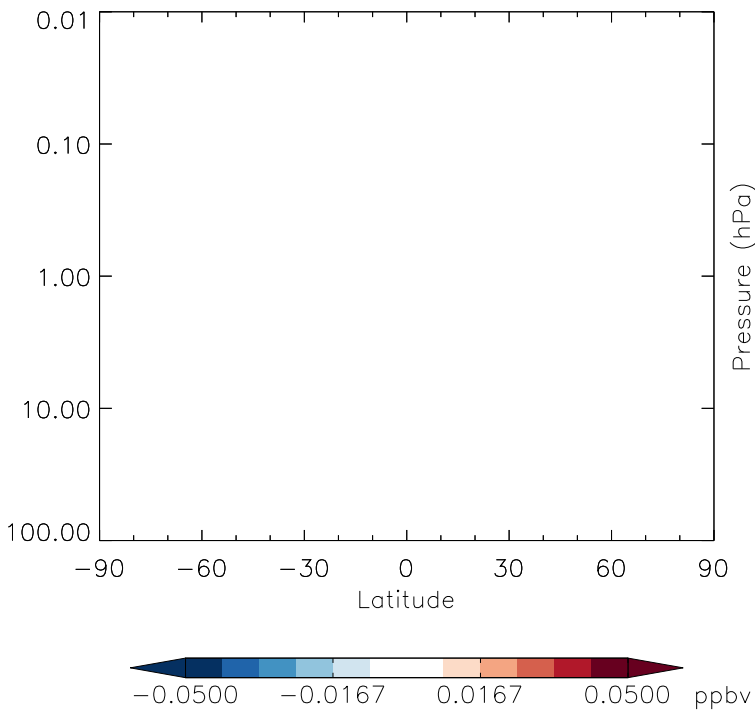
v11-01g-Run0 / v11-01d-Run1

ALD2 - Strat zonal mean % diff for Jul

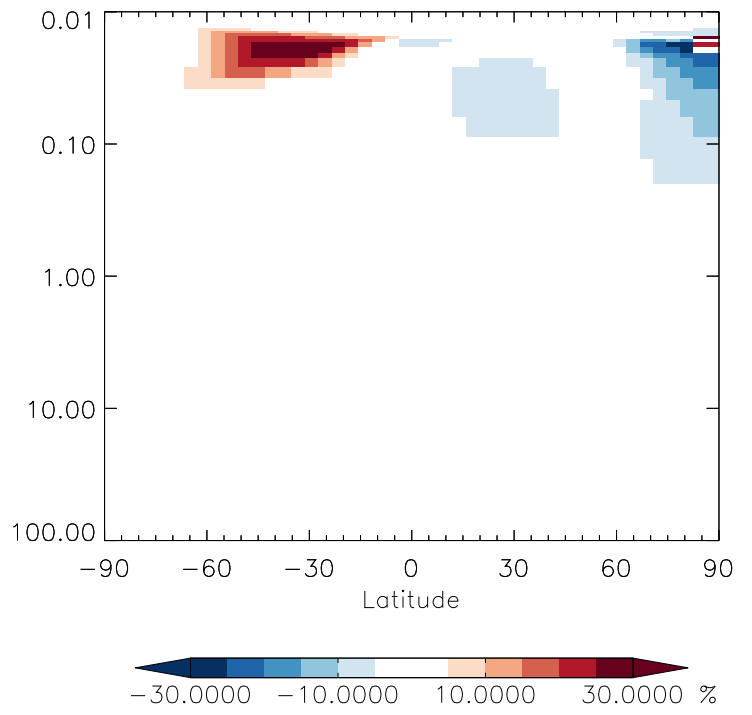


# GEOS-Chem Stratospheric Zonal Difference Maps

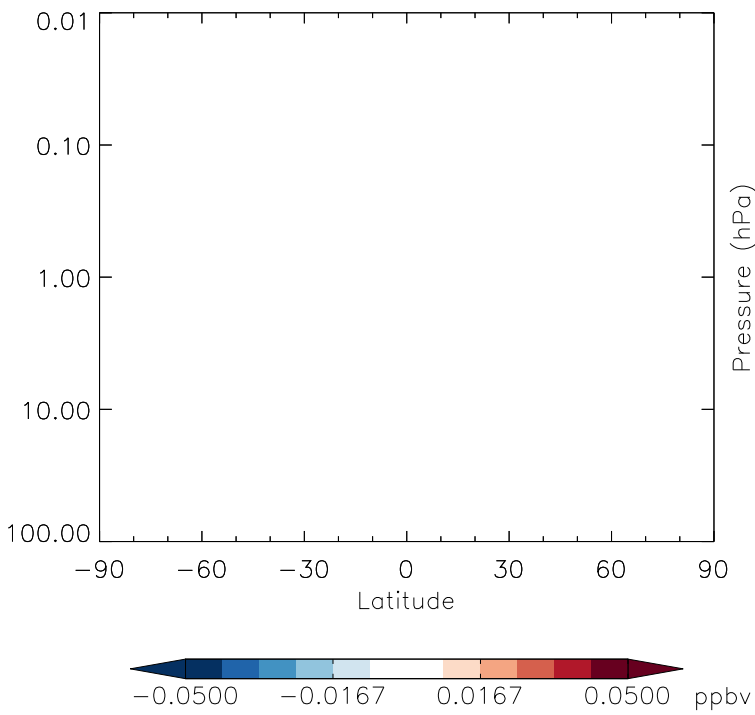
v11-01g-Run0 - v11-01f-geosfp-Run0  
RCHO - Strat zonal mean abs diff for Jul



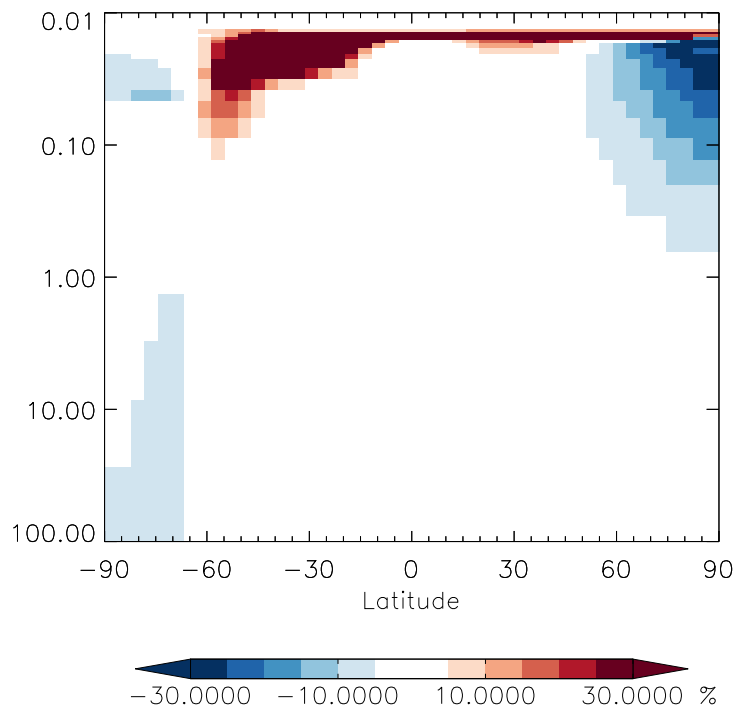
v11-01g-Run0 / v11-01f-geosfp-Run0  
RCHO - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
RCHO - Strat zonal mean abs diff for Jul



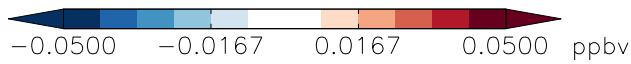
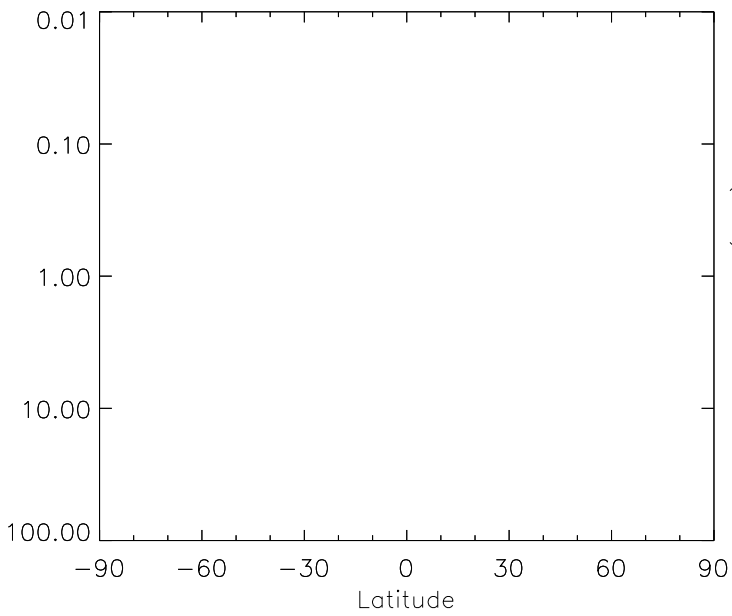
v11-01g-Run0 / v11-01d-Run1  
RCHO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

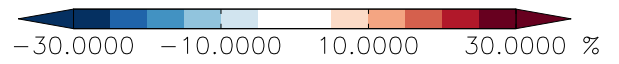
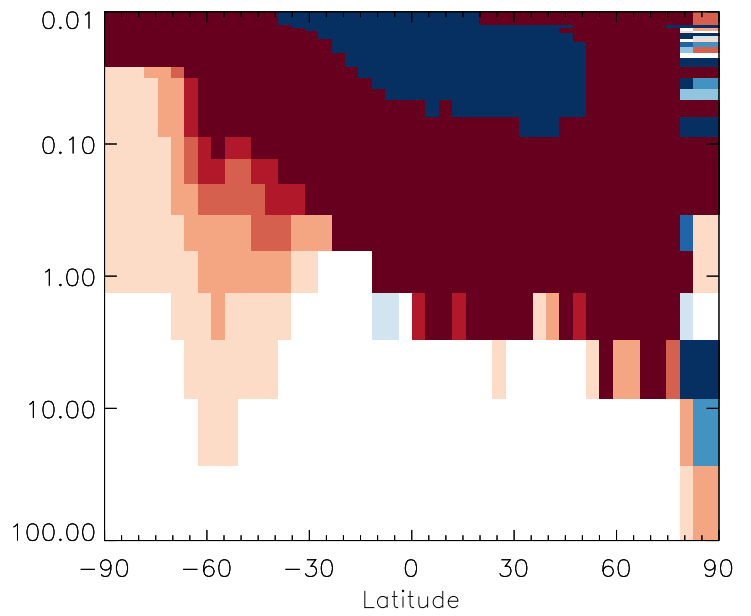
v11-01g-Run0 - v11-01f-geosfp-Run0

MVK - Strat zonal mean abs diff for Jul



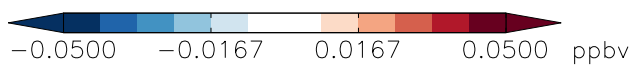
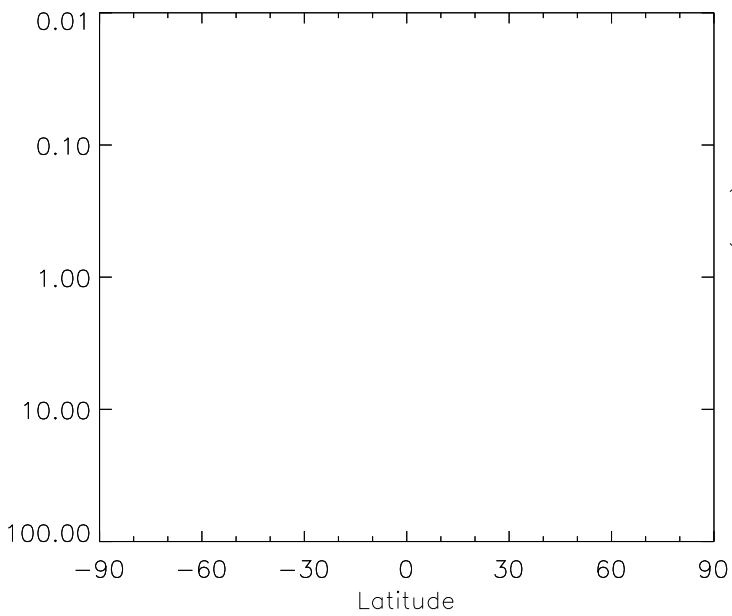
v11-01g-Run0 / v11-01f-geosfp-Run0

MVK - Strat zonal mean % diff for Jul



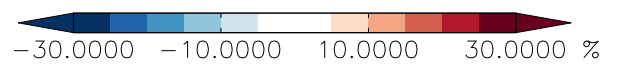
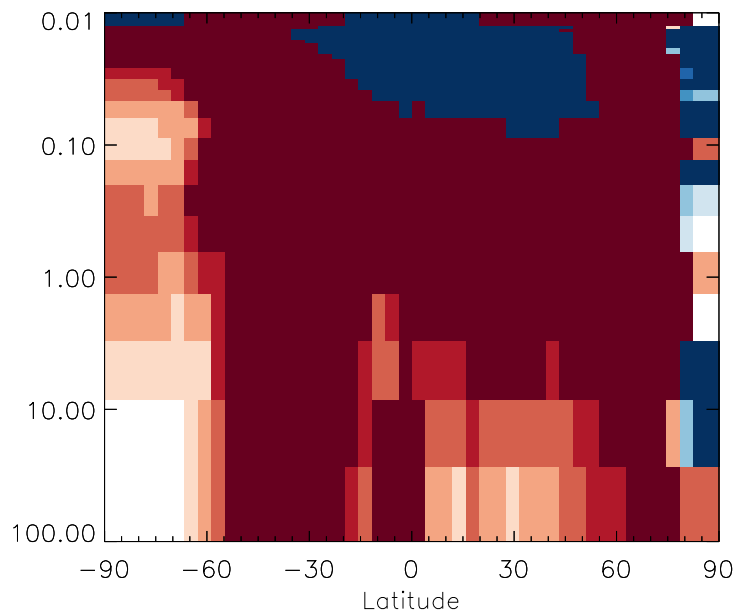
v11-01g-Run0 - v11-01d-Run1

MVK - Strat zonal mean abs diff for Jul



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

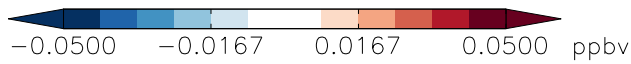
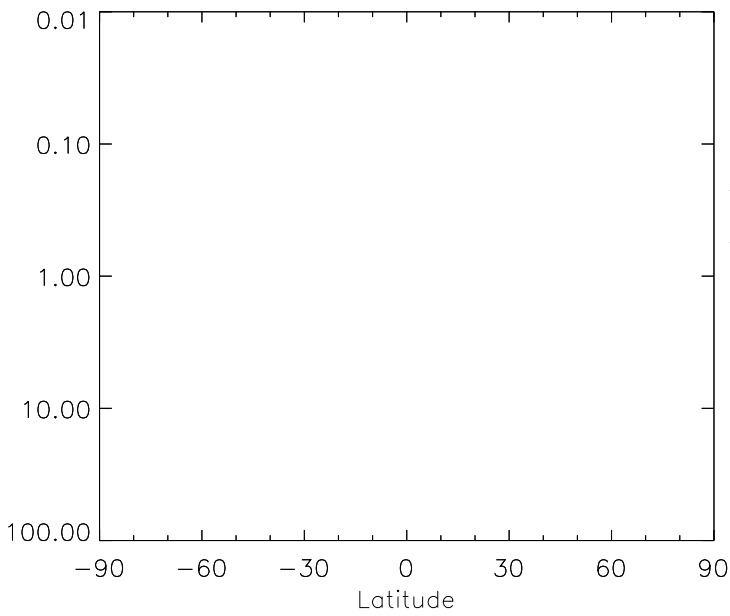
MVK - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

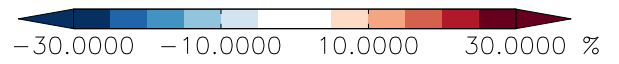
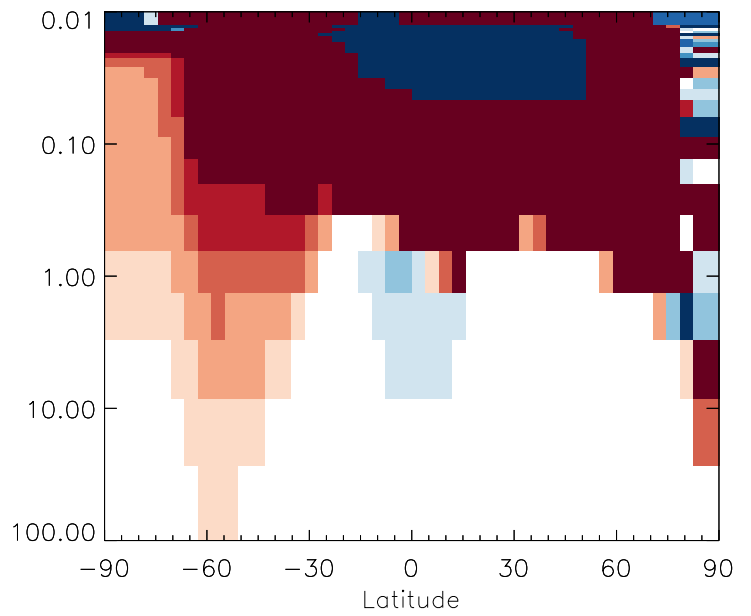
v11-01g-Run0 - v11-01f-geosfp-Run0

MACR - Strat zonal mean abs diff for Jul



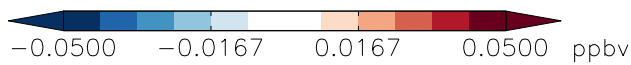
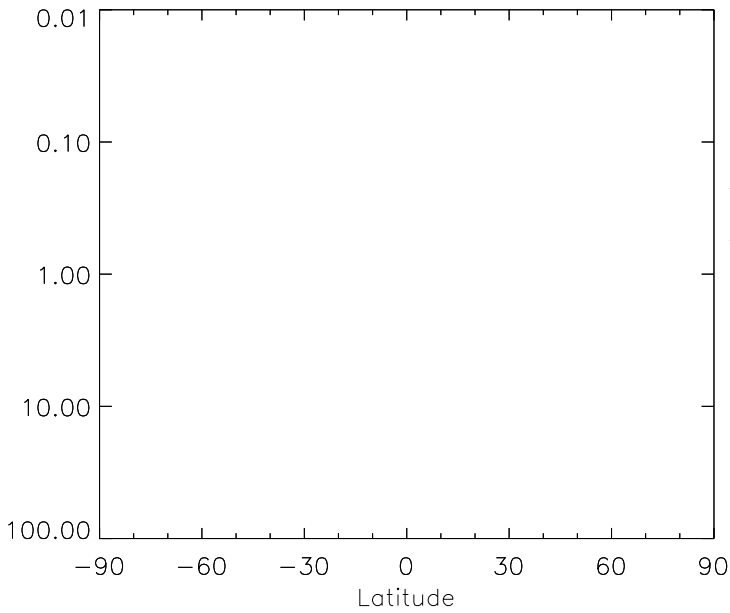
v11-01g-Run0 / v11-01f-geosfp-Run0

MACR - Strat zonal mean % diff for Jul



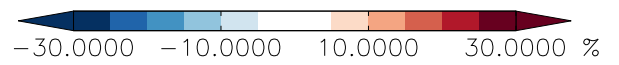
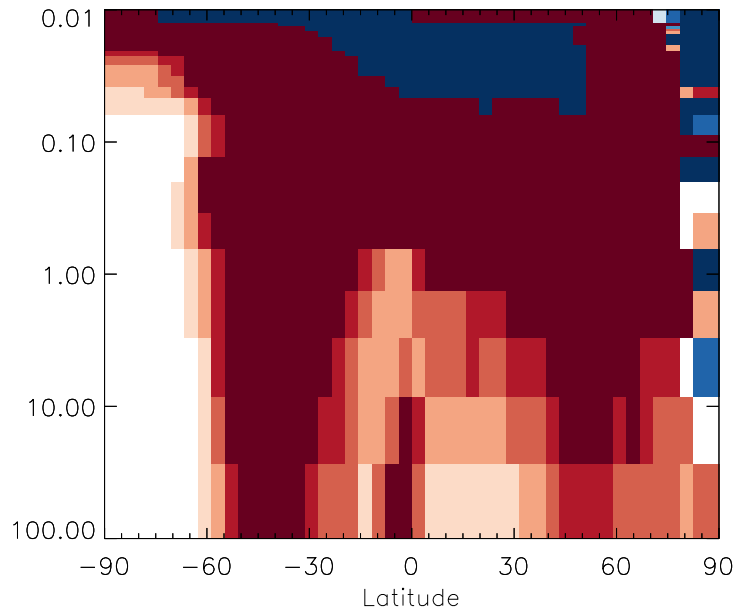
v11-01g-Run0 - v11-01d-Run1

MACR - Strat zonal mean abs diff for Jul



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

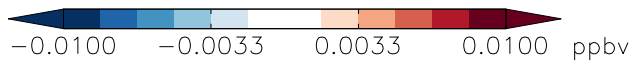
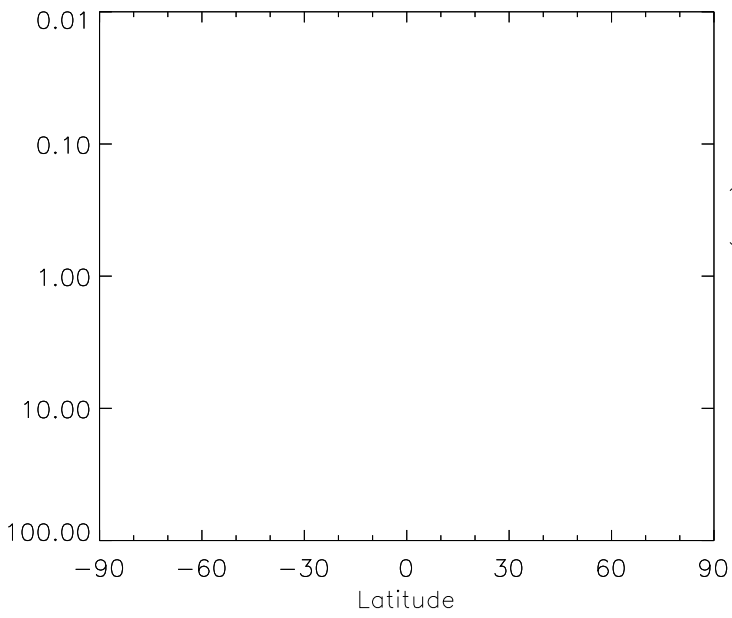
MACR - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

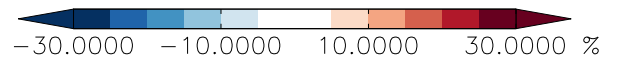
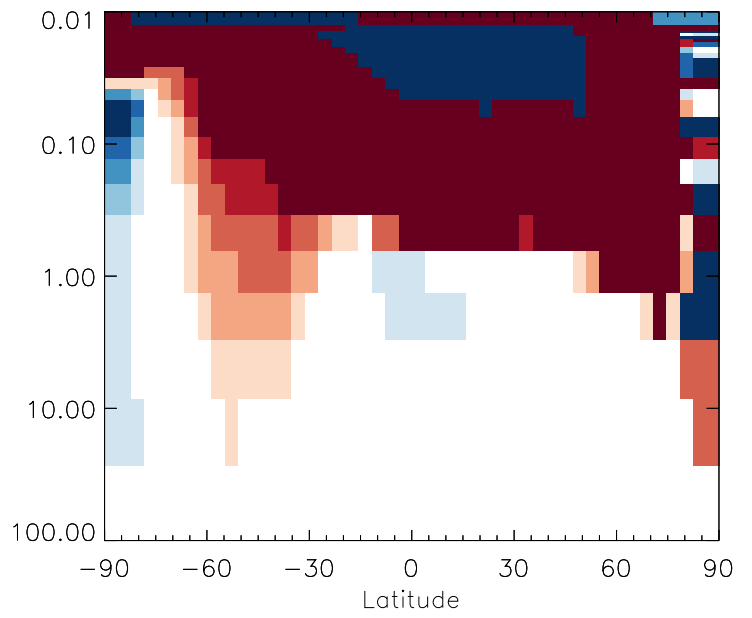
v11-01g-Run0 - v11-01f-geosp-Run0

PMN - Strat zonal mean abs diff for Jul



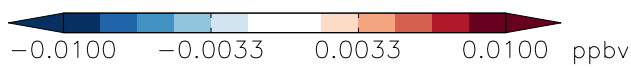
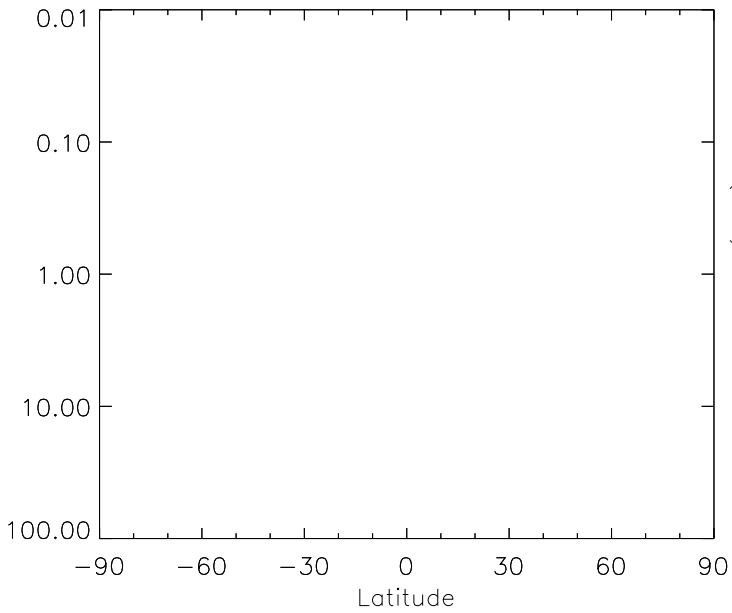
v11-01g-Run0 / v11-01f-geosp-Run0

PMN - Strat zonal mean % diff for Jul



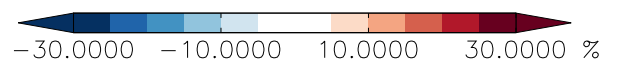
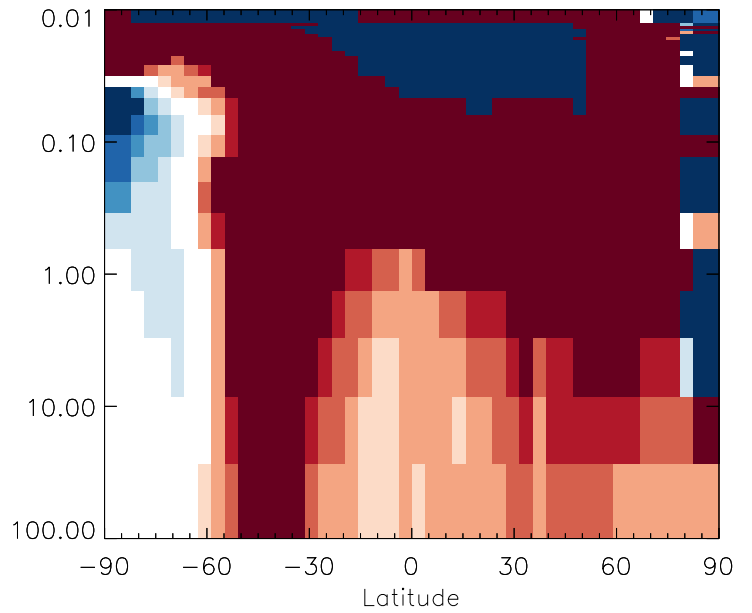
v11-01g-Run0 - v11-01d-Run1

PMN - Strat zonal mean abs diff for Jul



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

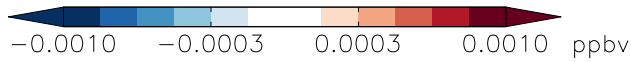
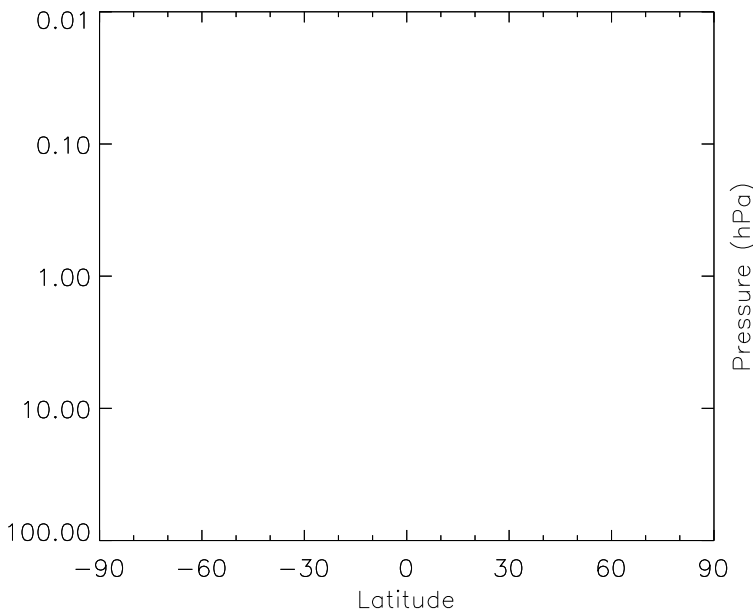
PMN - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

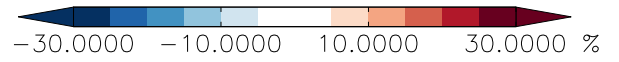
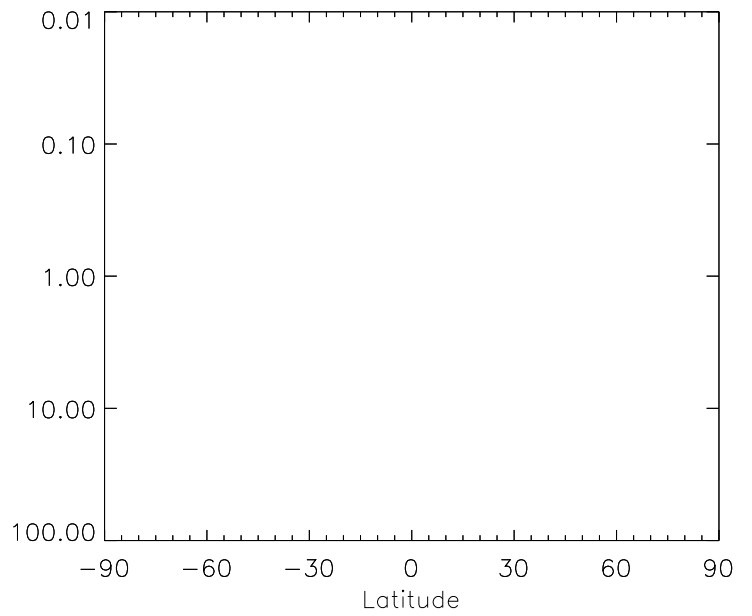
v11-01g-Run0 - v11-01f-geosfp-Run0

PPN - Strat zonal mean abs diff for Jul



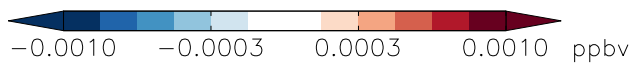
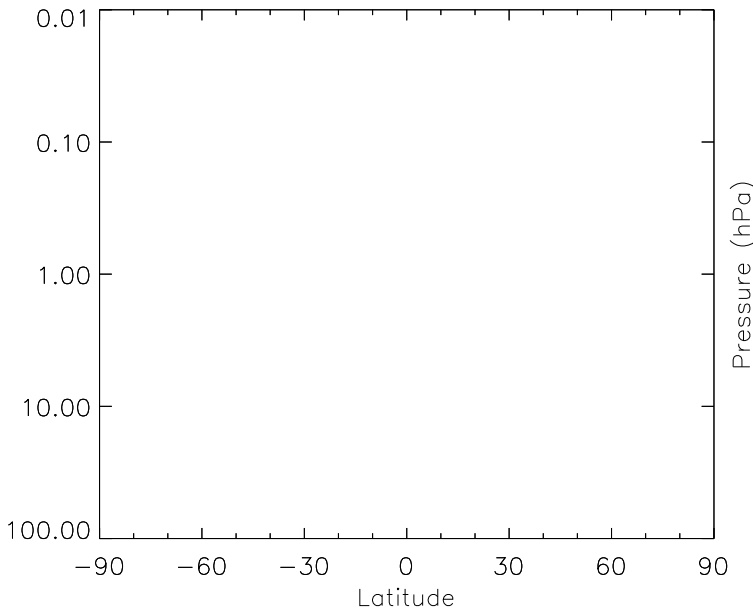
v11-01g-Run0 / v11-01f-geosfp-Run0

PPN - Strat zonal mean % diff for Jul



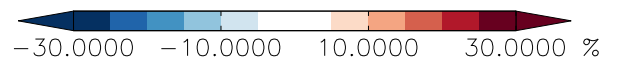
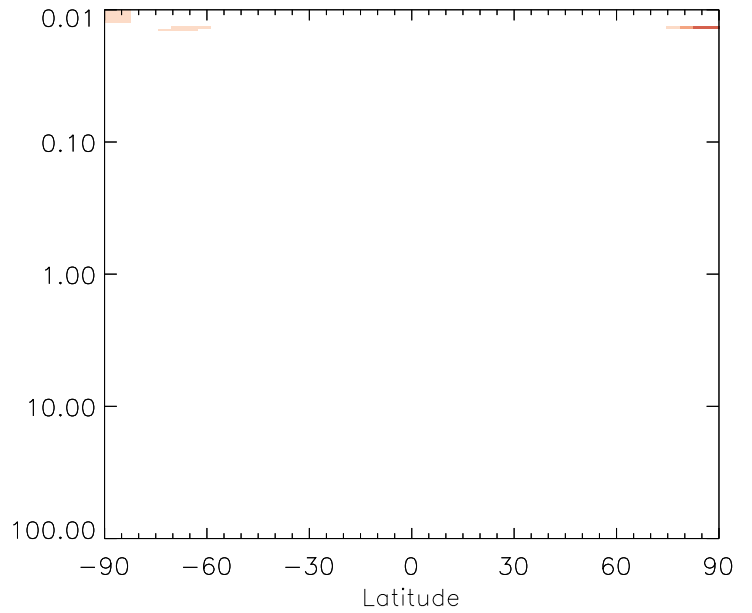
v11-01g-Run0 - v11-01d-Run1

PPN - Strat zonal mean abs diff for Jul



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

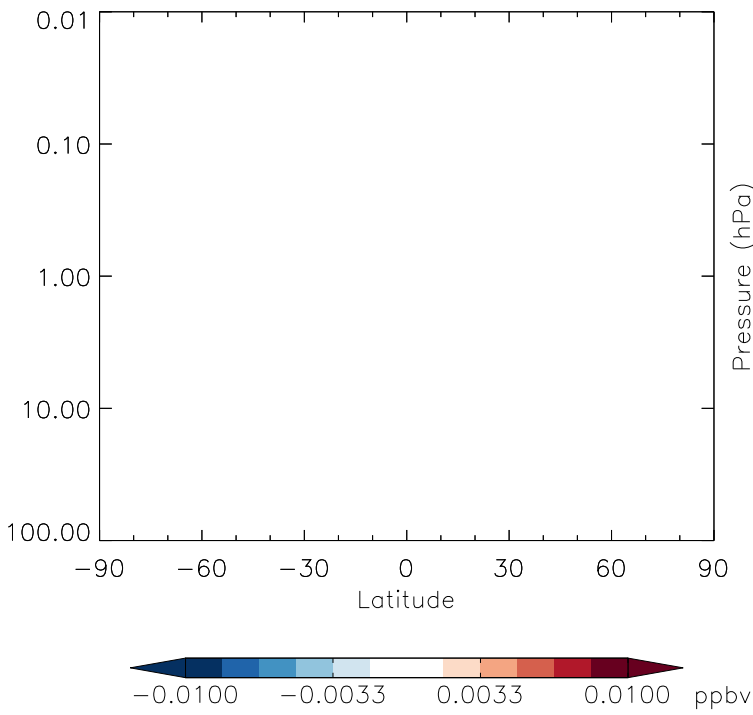
PPN - Strat zonal mean % diff for Jul



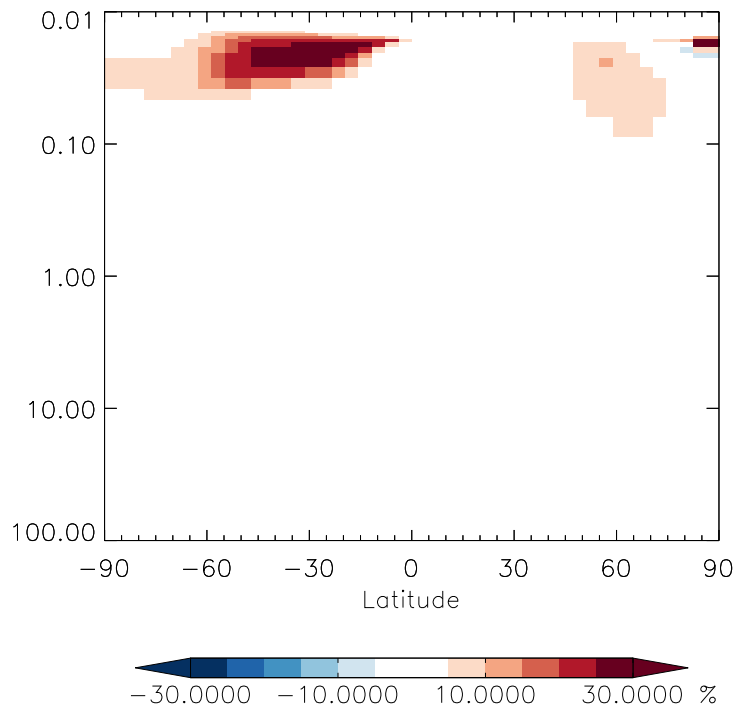


GEOS-Chem Stratospheric Zonal Difference Maps

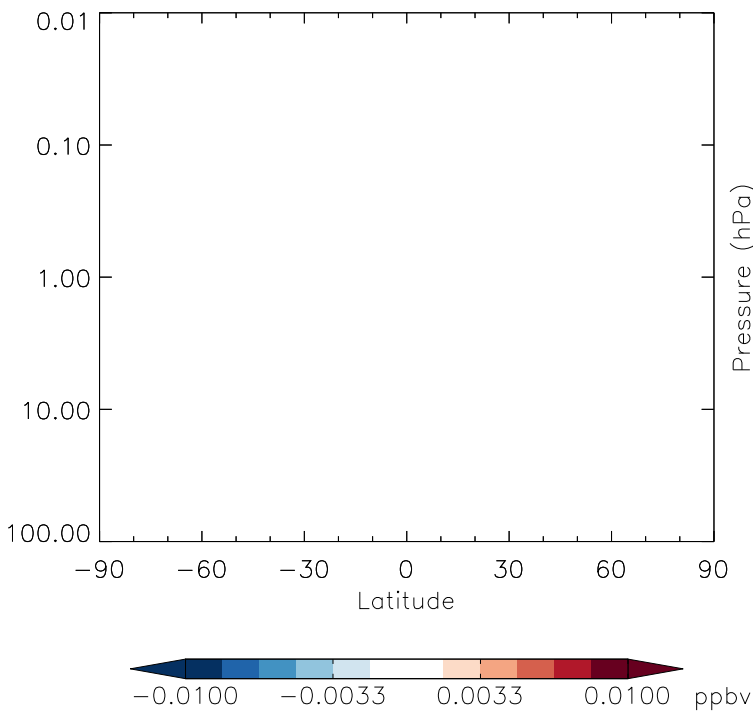
v11-01g-Run0 - v11-01f-geosfp-Run0  
R4N2 - Strat zonal mean abs diff for Jul



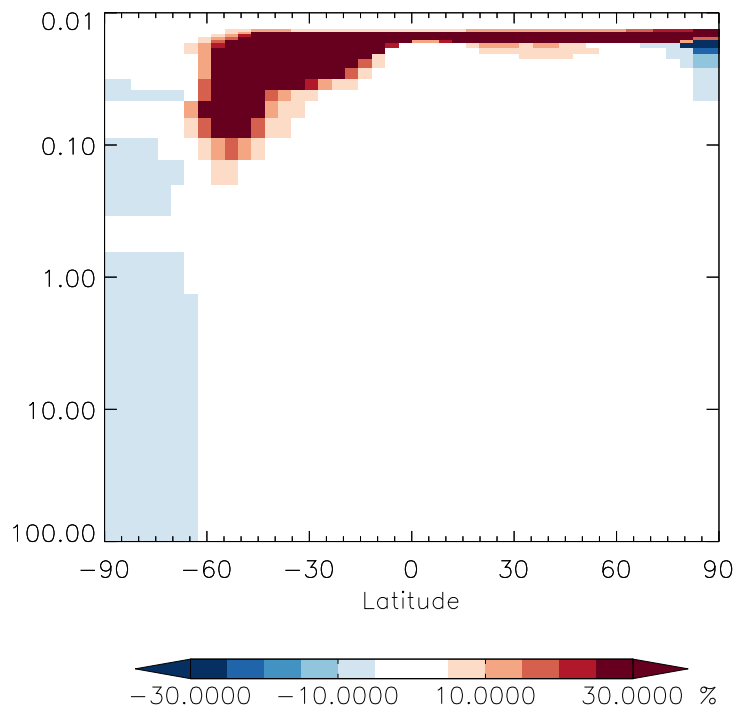
v11-01g-Run0 / v11-01f-geosfp-Run0  
R4N2 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
R4N2 - Strat zonal mean abs diff for Jul

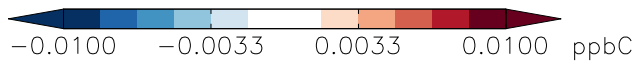
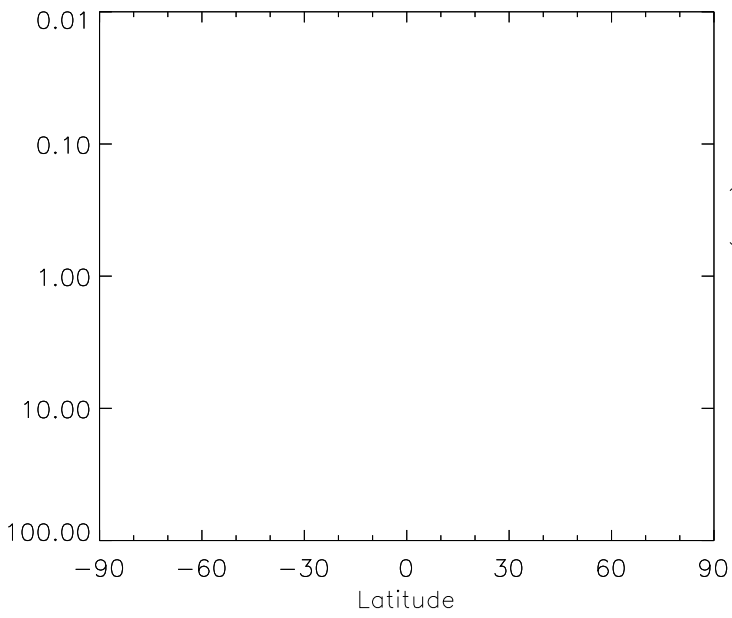


v11-01g-Run0 / v11-01d-Run1  
R4N2 - Strat zonal mean % diff for Jul

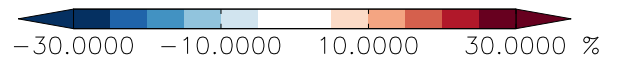
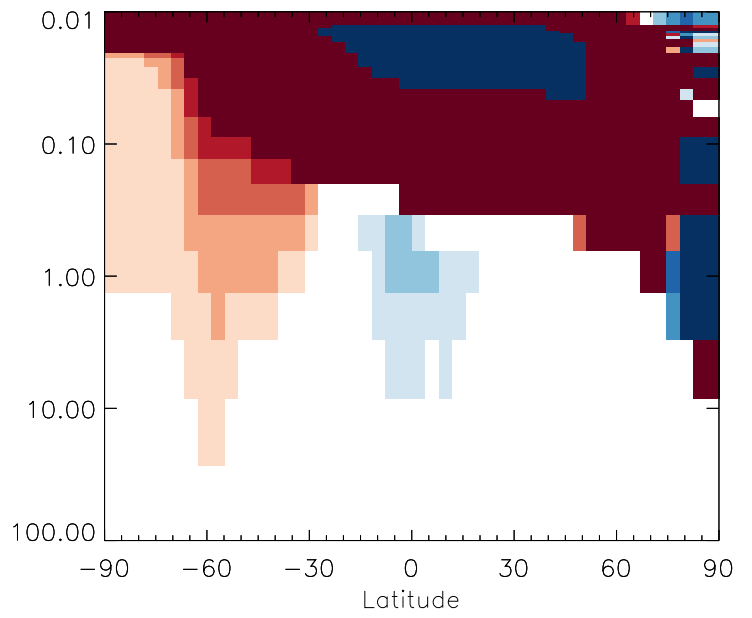


GEOS-Chem Stratospheric Zonal Difference Maps

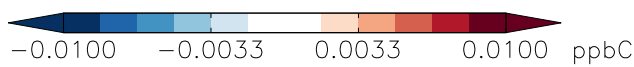
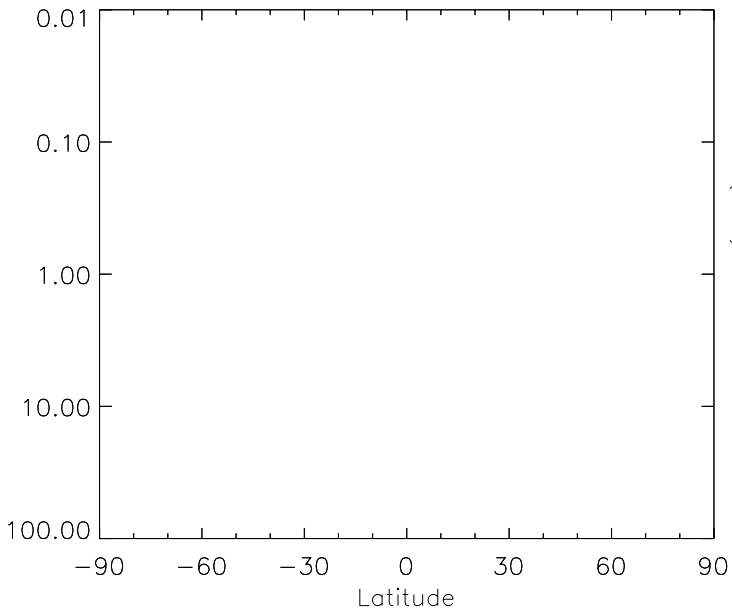
v11-01g-Run0 - v11-01f-geosfp-Run0  
PRPE - Strat zonal mean abs diff for Jul



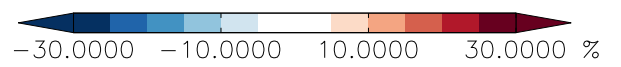
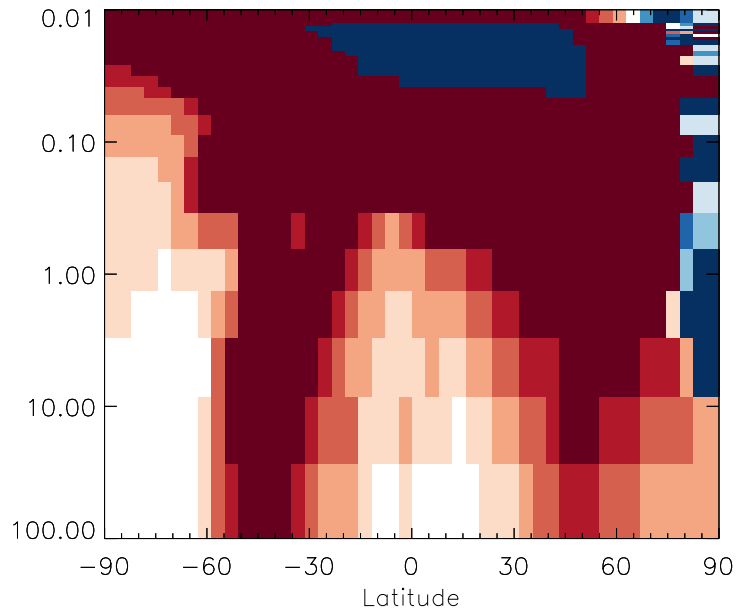
v11-01g-Run0 / v11-01f-geosfp-Run0  
PRPE - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
PRPE - Strat zonal mean abs diff for Jul



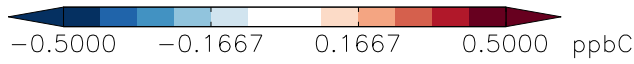
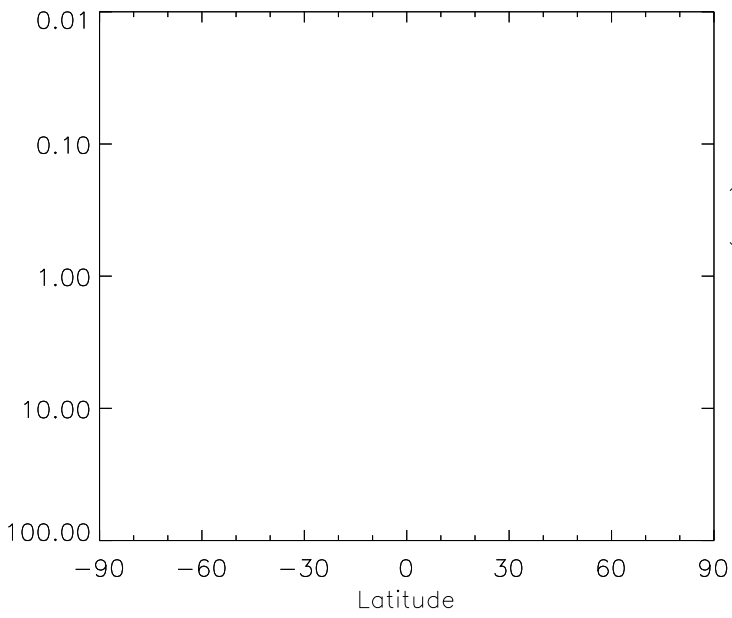
v11-01g-Run0 / v11-01d-Run1  
PRPE - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

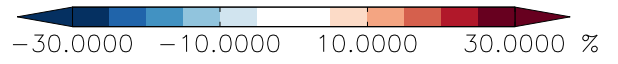
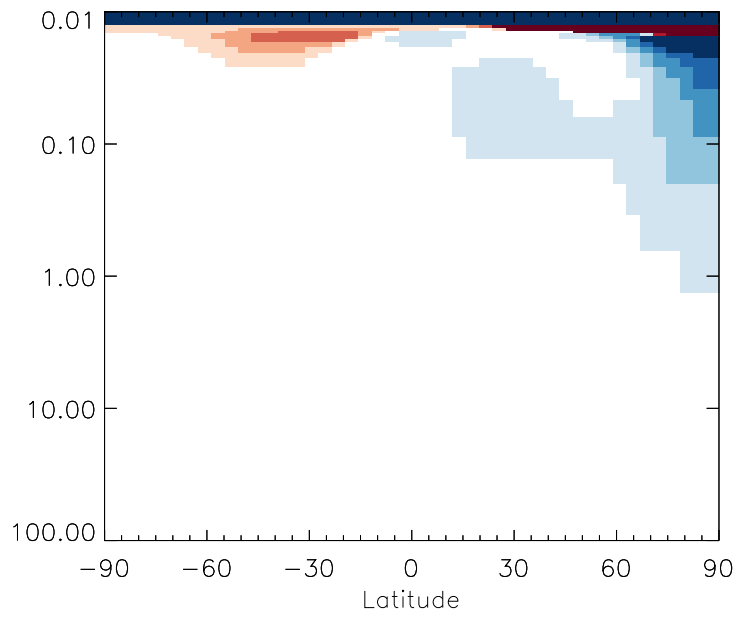
v11-01g-Run0 - v11-01f-geosfp-Run0

C3H8 - Strat zonal mean abs diff for Jul



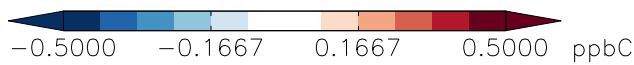
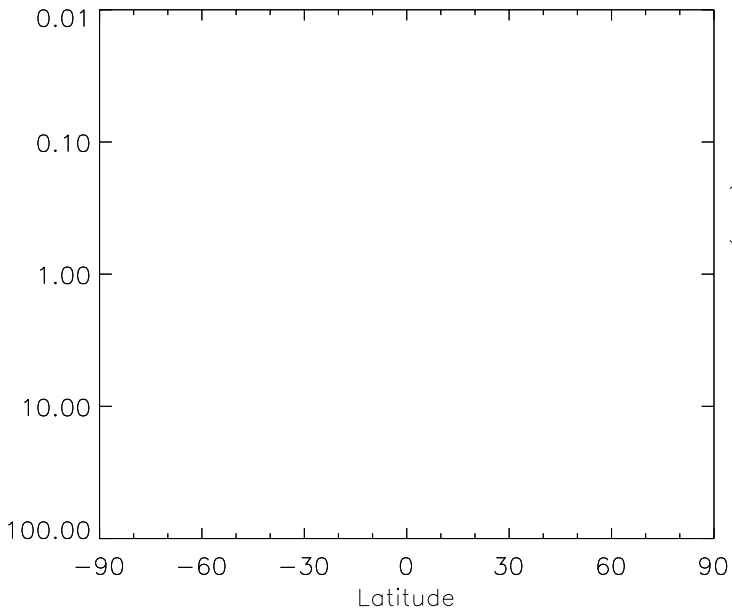
v11-01g-Run0 / v11-01f-geosfp-Run0

C3H8 - Strat zonal mean % diff for Jul



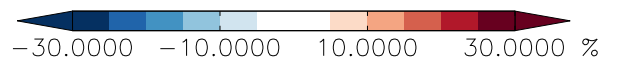
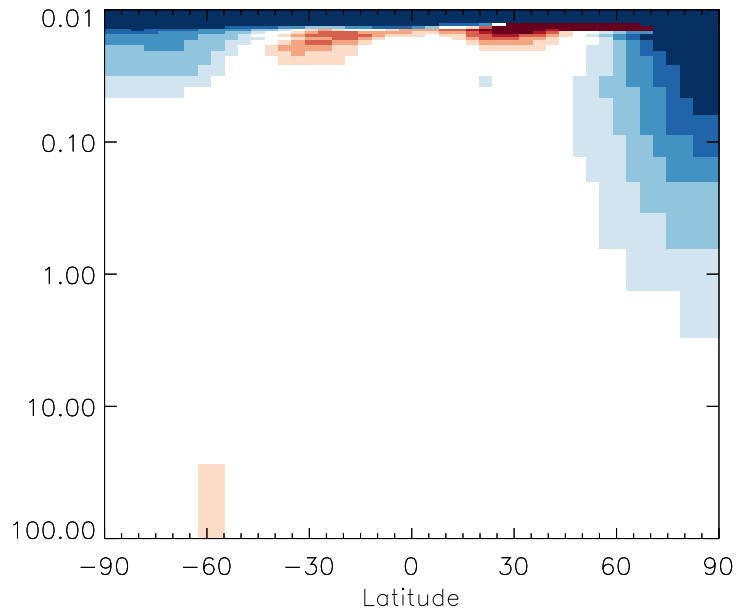
v11-01g-Run0 - v11-01d-Run1

C3H8 - Strat zonal mean abs diff for Jul



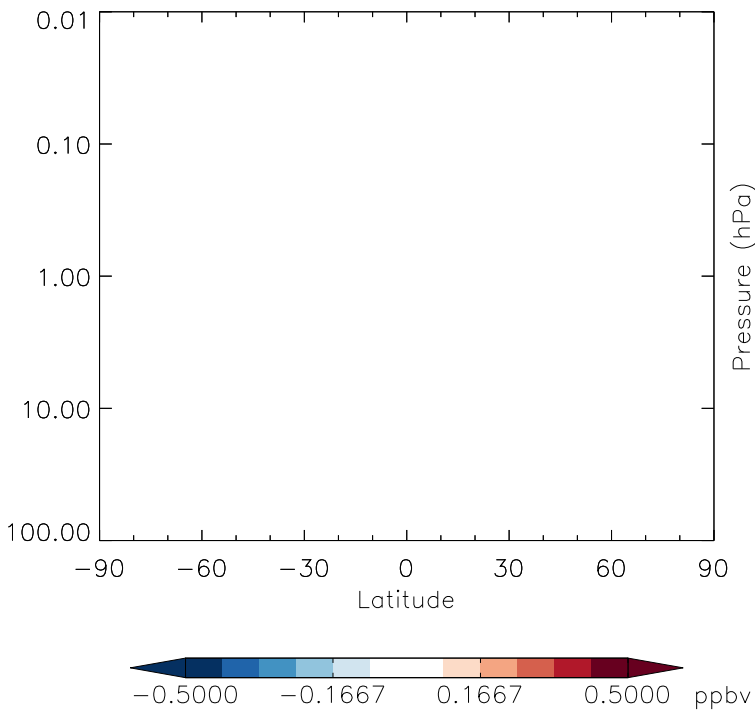
v11-01g-Run0 / v11-01d-Run1

C3H8 - Strat zonal mean % diff for Jul

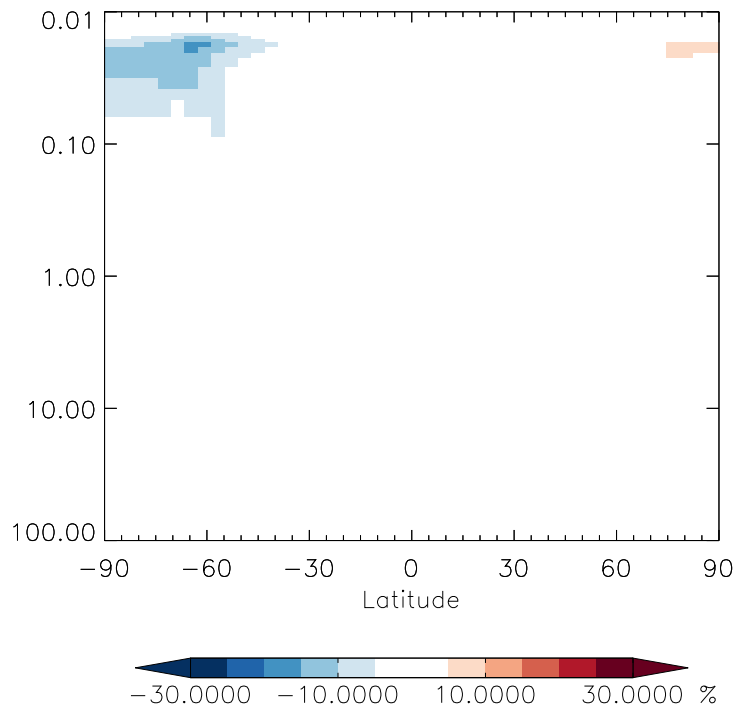


GEOS-Chem Stratospheric Zonal Difference Maps

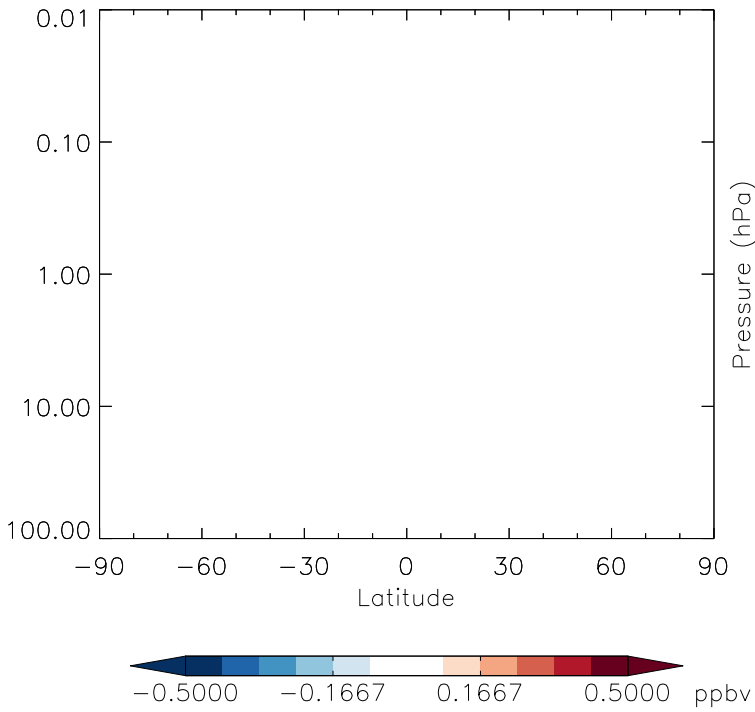
v11-01g-Run0 - v11-01f-geosfp-Run0  
CH2O - Strat zonal mean abs diff for Jul



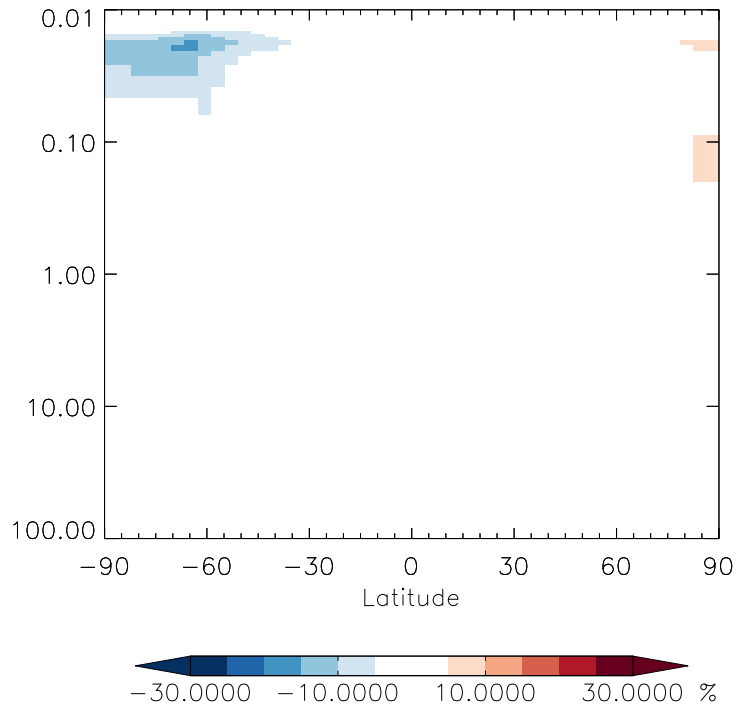
v11-01g-Run0 / v11-01f-geosfp-Run0  
CH2O - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CH2O - Strat zonal mean abs diff for Jul

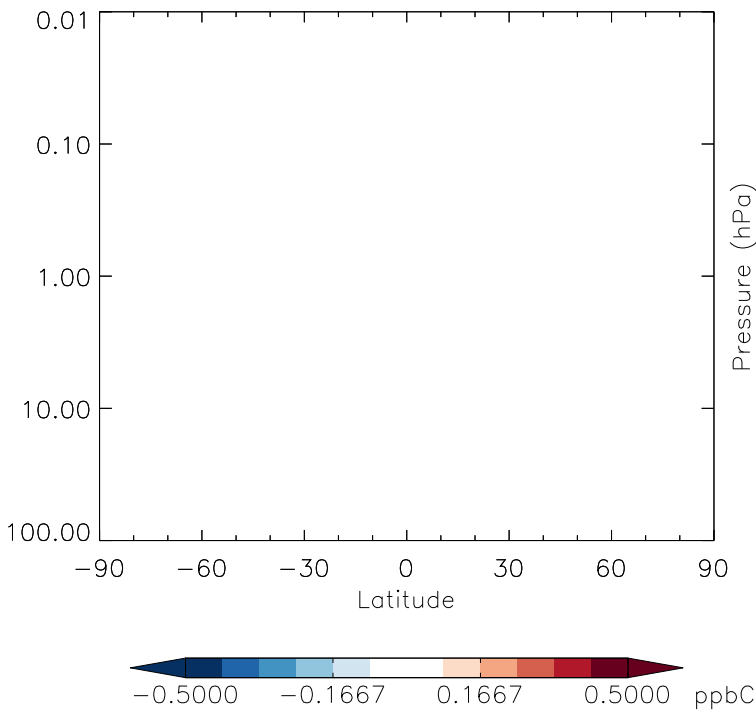


v11-01g-Run0 / v11-01d-Run1  
CH2O - Strat zonal mean % diff for Jul

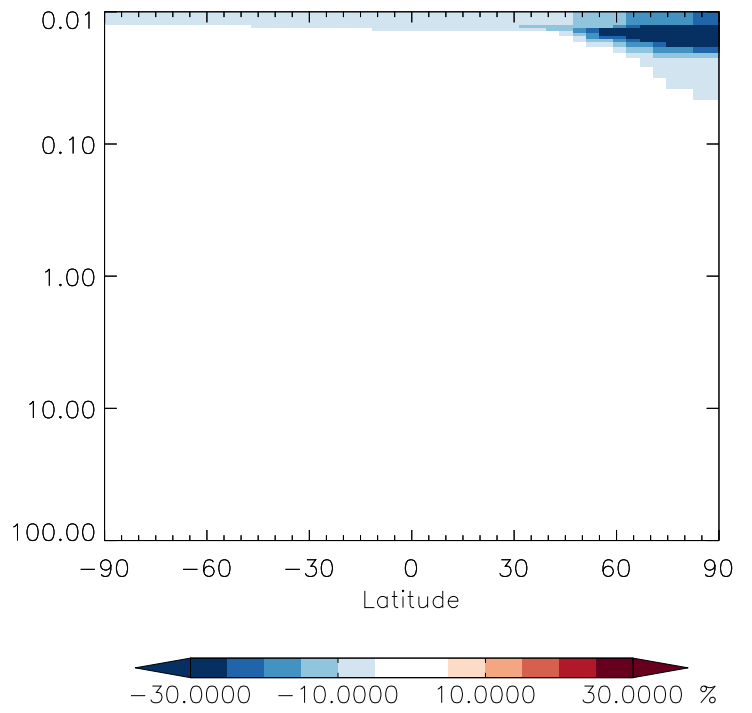


GEOS-Chem Stratospheric Zonal Difference Maps

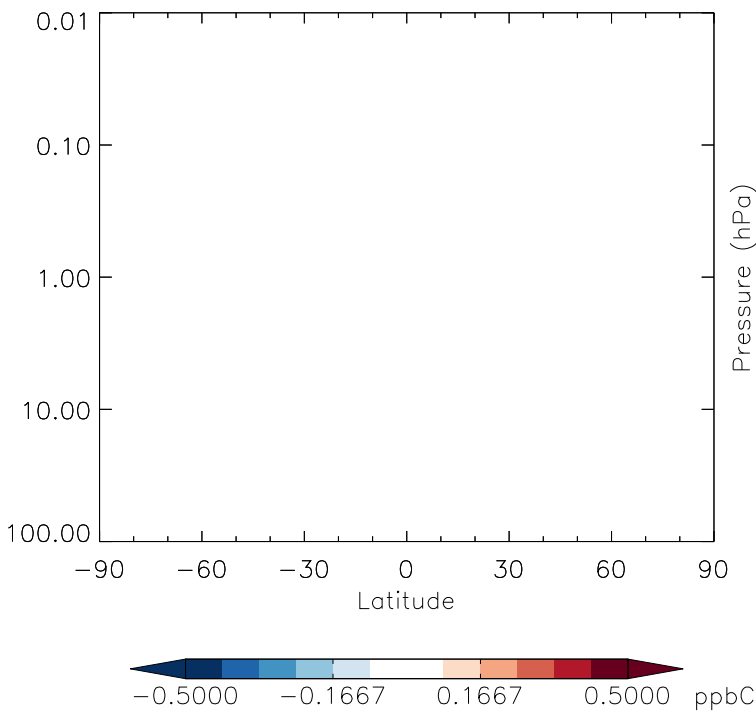
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C2H6 - Strat zonal mean abs diff for Jul



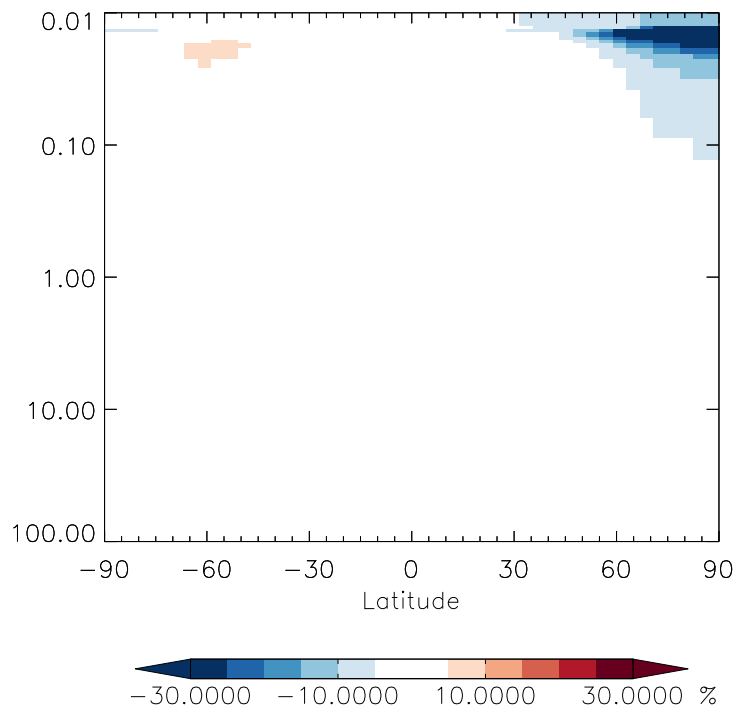
v11-01g-Run0 / v11-01f-geosfp-Run0  
C2H6 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
C2H6 - Strat zonal mean abs diff for Jul

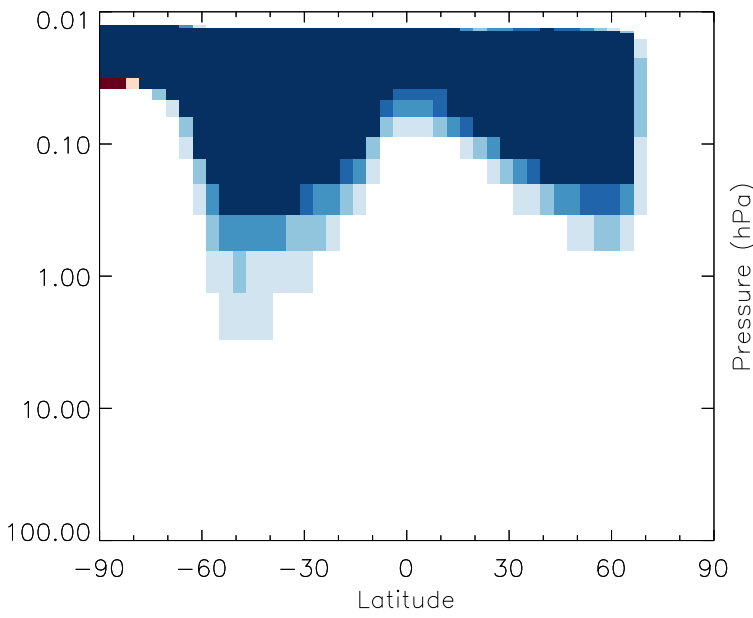


v11-01g-Run0 / v11-01d-Run1  
C2H6 - Strat zonal mean % diff for Jul

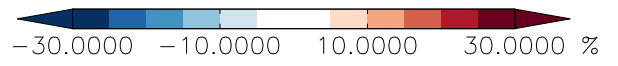
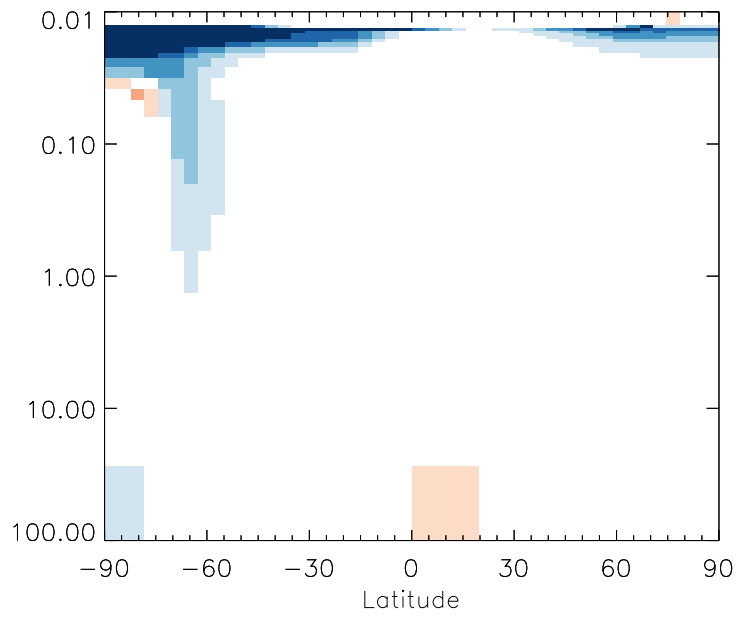


GEOS-Chem Stratospheric Zonal Difference Maps

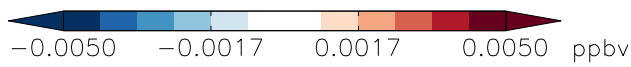
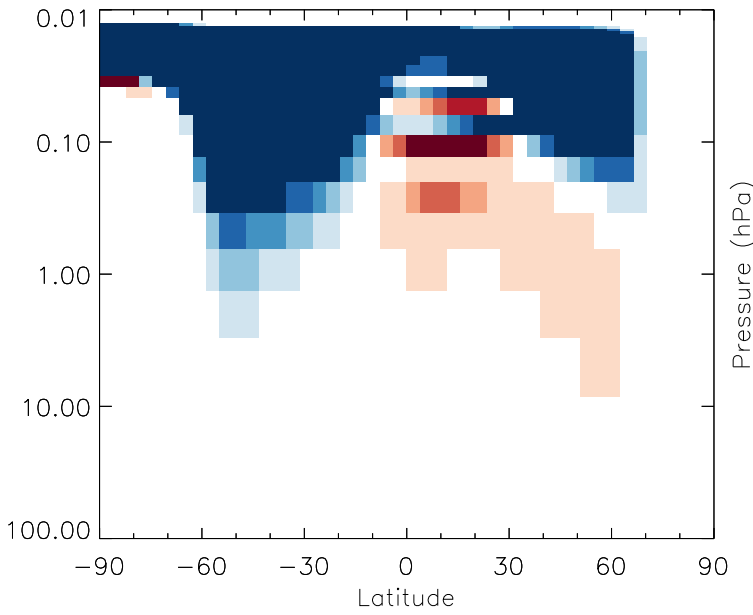
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O5 - Strat zonal mean abs diff for Jul



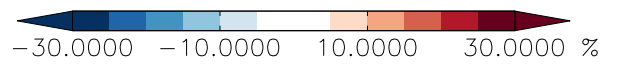
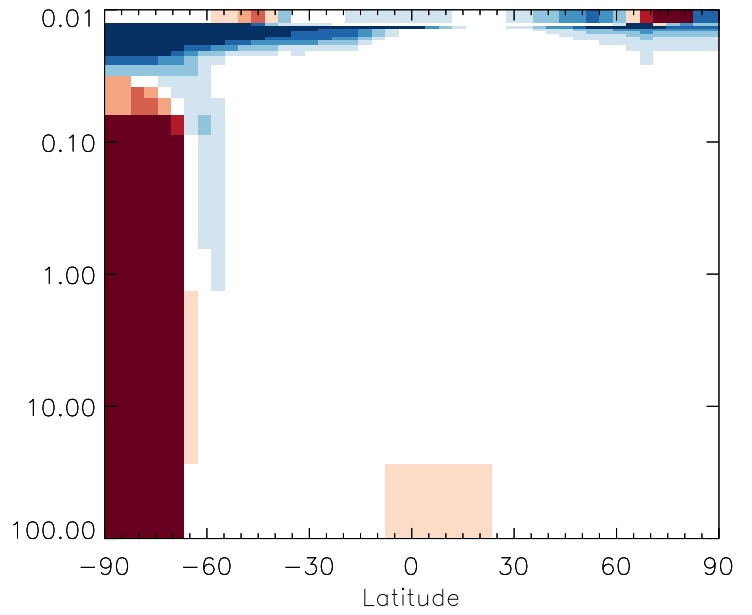
v11-01g-Run0 / v11-01f-geosfp-Run0  
N2O5 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
N2O5 - Strat zonal mean abs diff for Jul

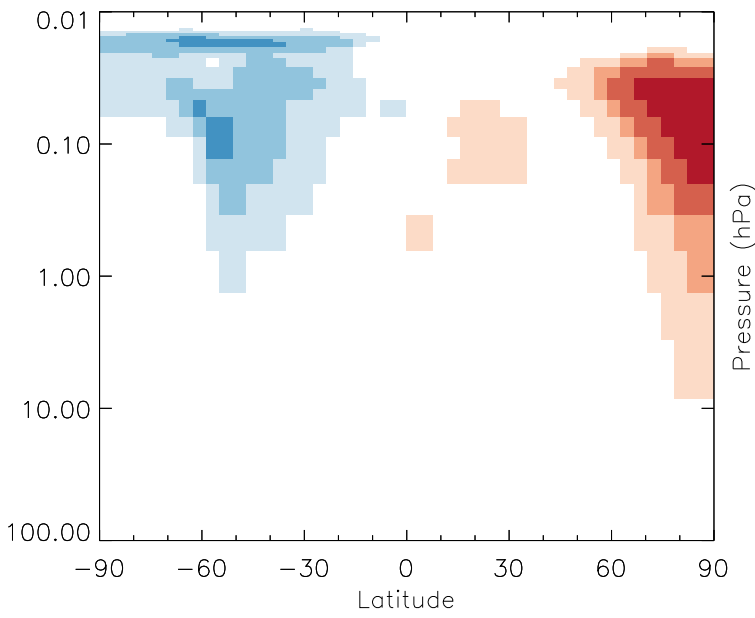


v11-01g-Run0 / v11-01d-Run1  
N2O5 - Strat zonal mean % diff for Jul

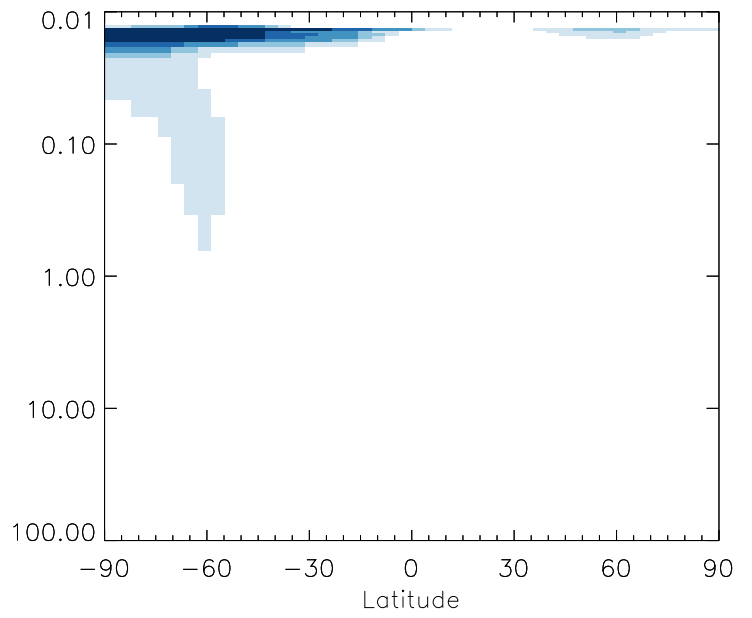


GEOS-Chem Stratospheric Zonal Difference Maps

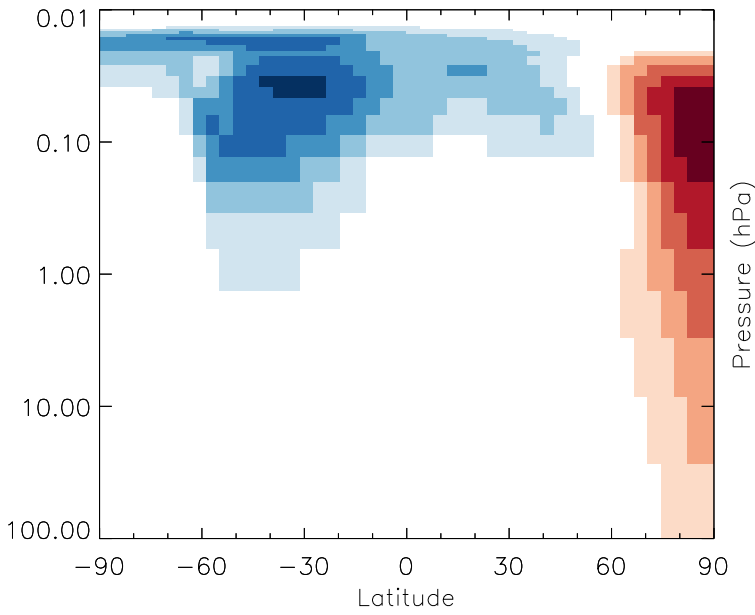
v11-01g-Run0 - v11-01f-geosfp-Run0  
HNO<sub>4</sub> - Strat zonal mean abs diff for Jul



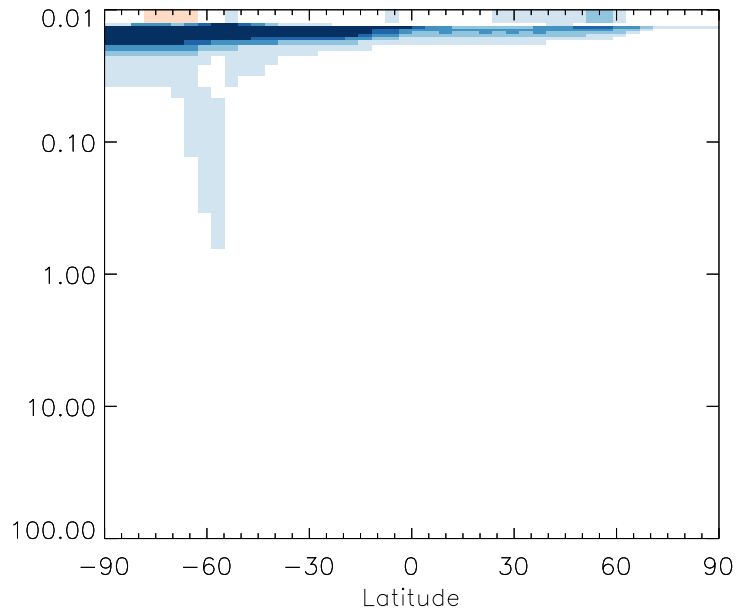
v11-01g-Run0 / v11-01f-geosfp-Run0  
HNO<sub>4</sub> - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
HNO<sub>4</sub> - Strat zonal mean abs diff for Jul



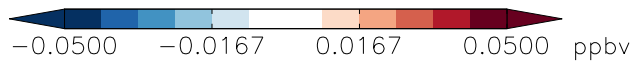
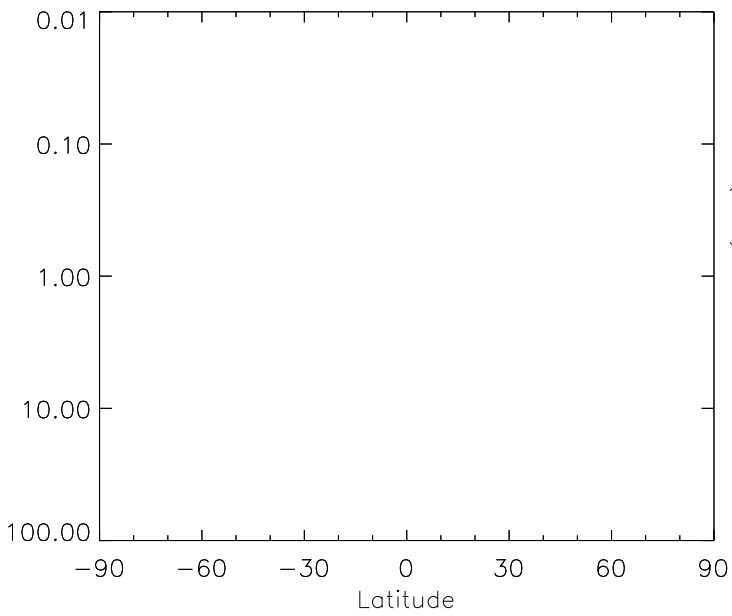
v11-01g-Run0 / v11-01d-Run1  
HNO<sub>4</sub> - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

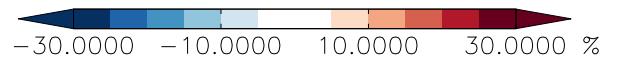
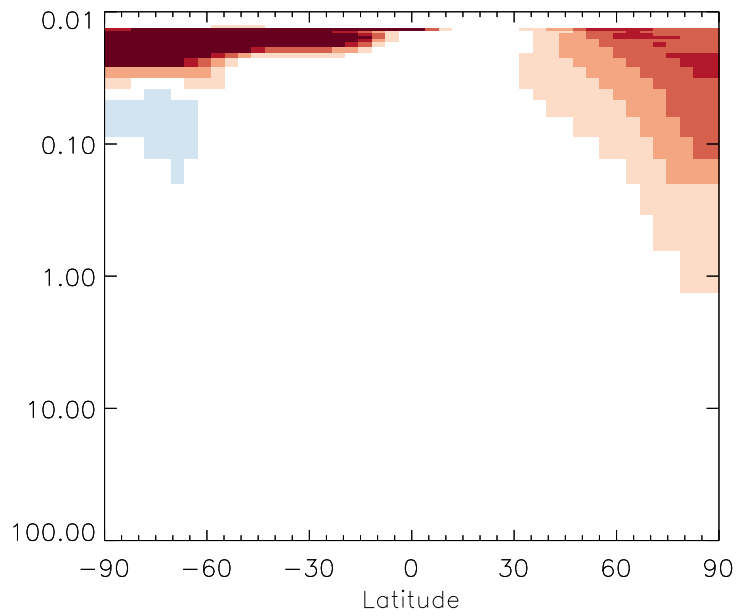
v11-01g-Run0 - v11-01f-geosfp-Run0

MP - Strat zonal mean abs diff for Jul



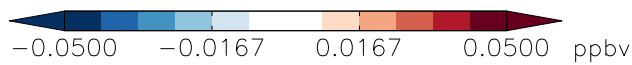
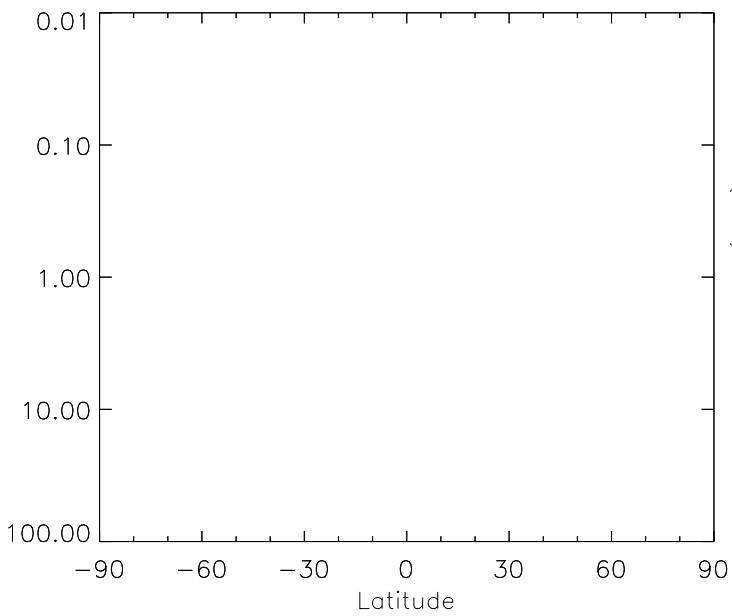
v11-01g-Run0 / v11-01f-geosfp-Run0

MP - Strat zonal mean % diff for Jul



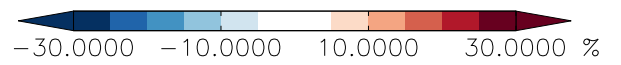
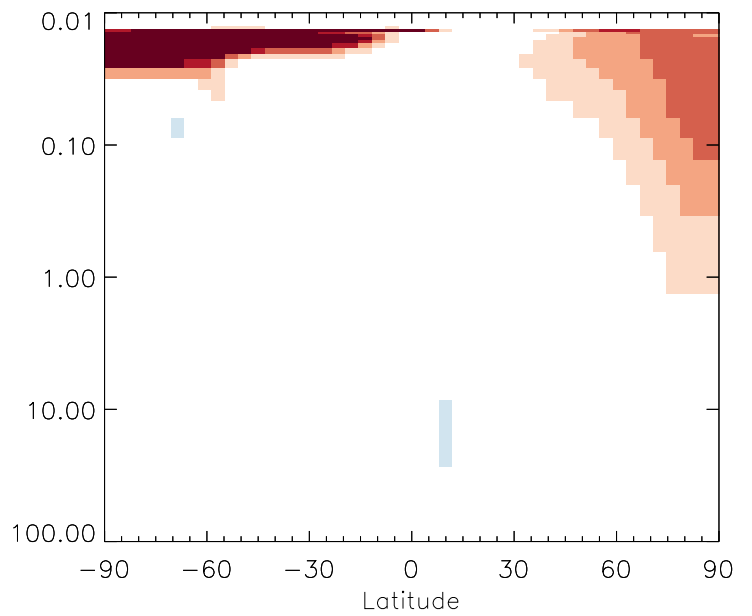
v11-01g-Run0 - v11-01d-Run1

MP - Strat zonal mean abs diff for Jul



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

MP - Strat zonal mean % diff for Jul

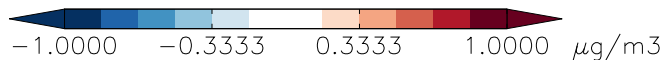
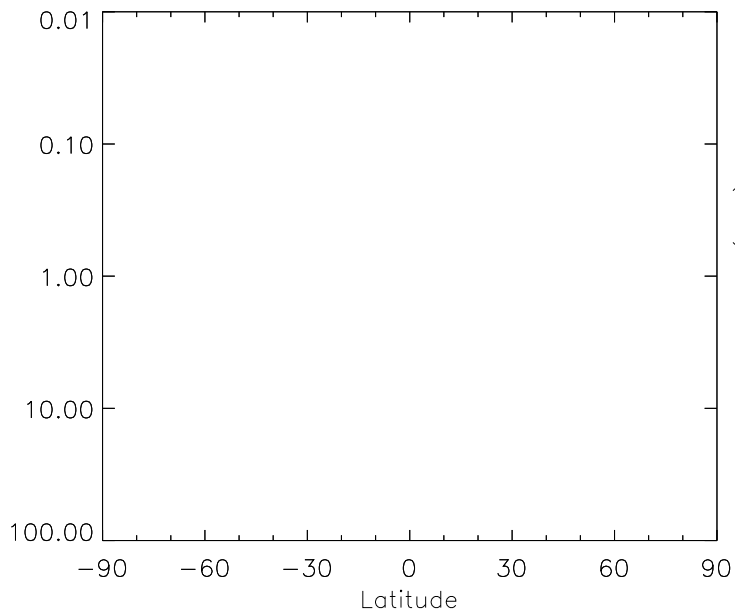




GEOS-Chem Stratospheric Zonal Difference Maps

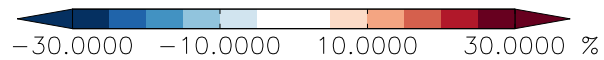
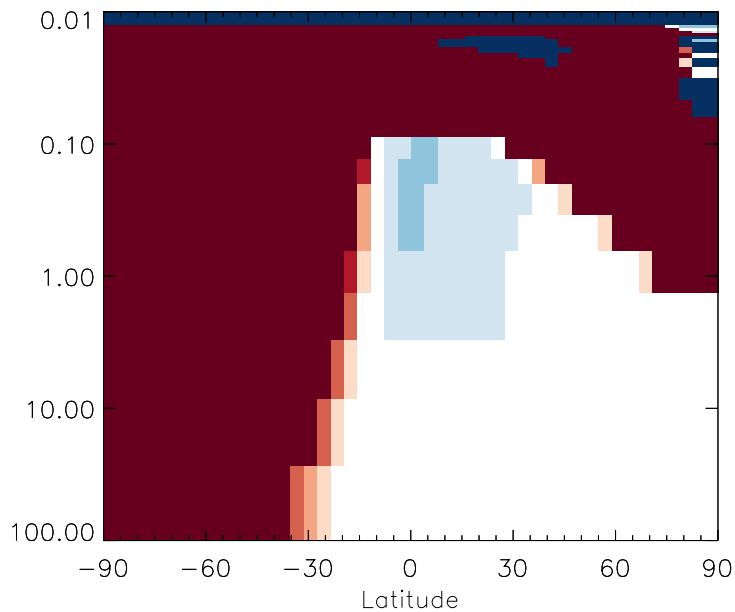
v11-01g-Run0 - v11-01f-geosfp-Run0

DMS - Strat zonal mean abs diff for Jul



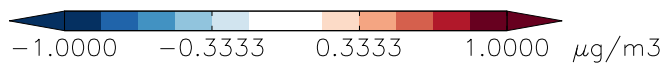
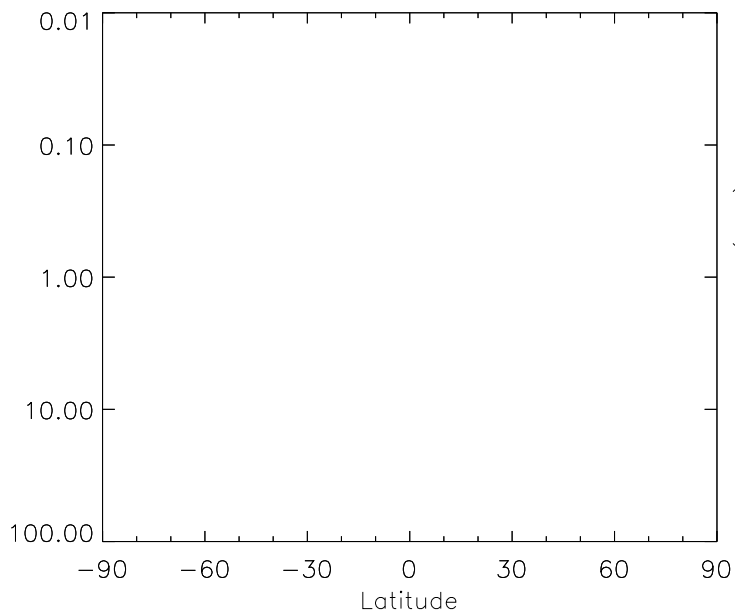
v11-01g-Run0 / v11-01f-geosfp-Run0

DMS - Strat zonal mean % diff for Jul



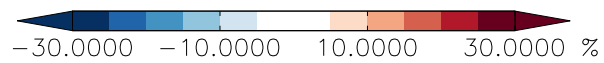
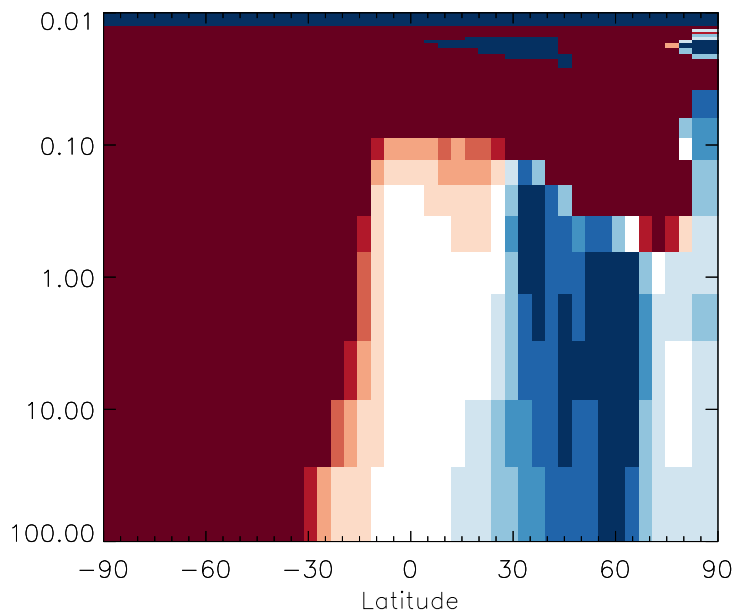
v11-01g-Run0 - v11-01d-Run1

DMS - Strat zonal mean abs diff for Jul



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

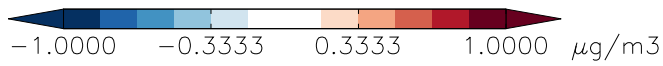
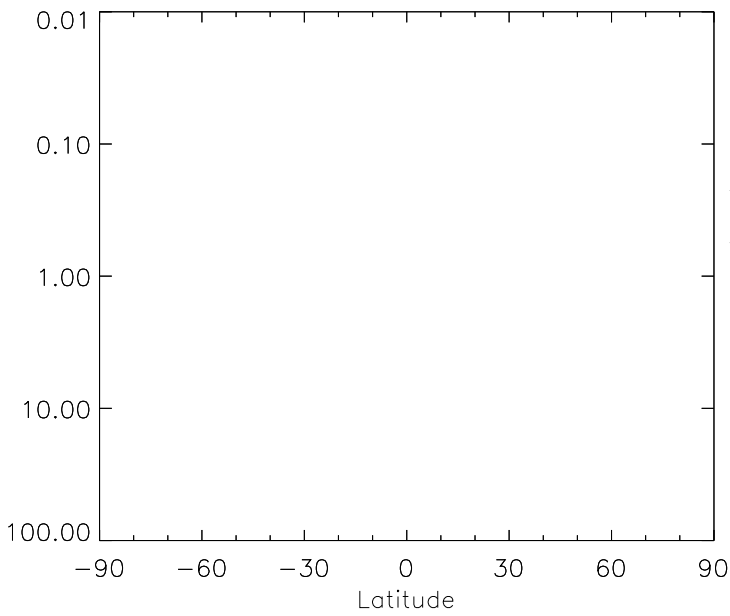
DMS - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

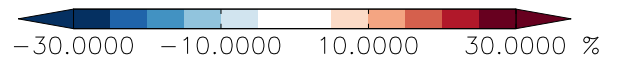
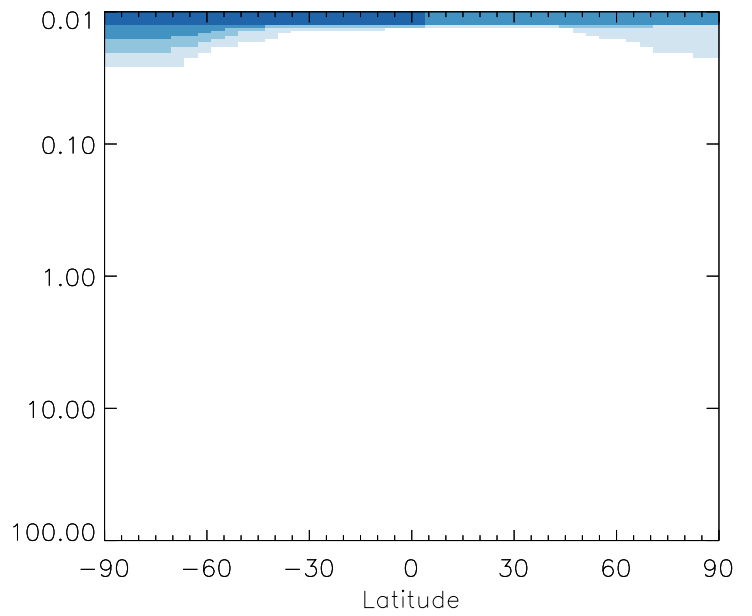
v11-01g-Run0 - v11-01f-geosfp-Run0

SO<sub>2</sub> - Strat zonal mean abs diff for Jul



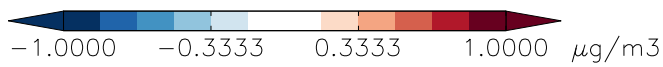
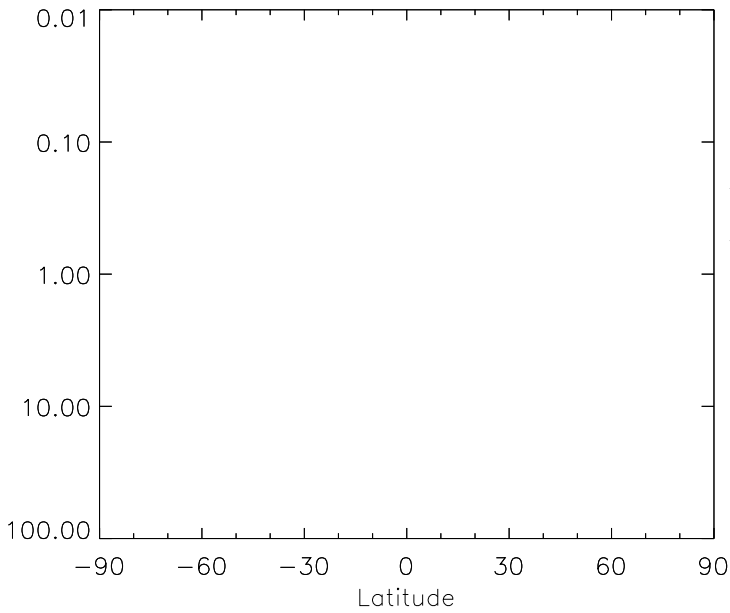
v11-01g-Run0 / v11-01f-geosfp-Run0

SO<sub>2</sub> - Strat zonal mean % diff for Jul



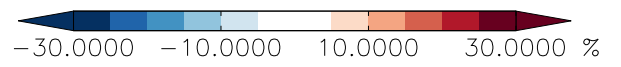
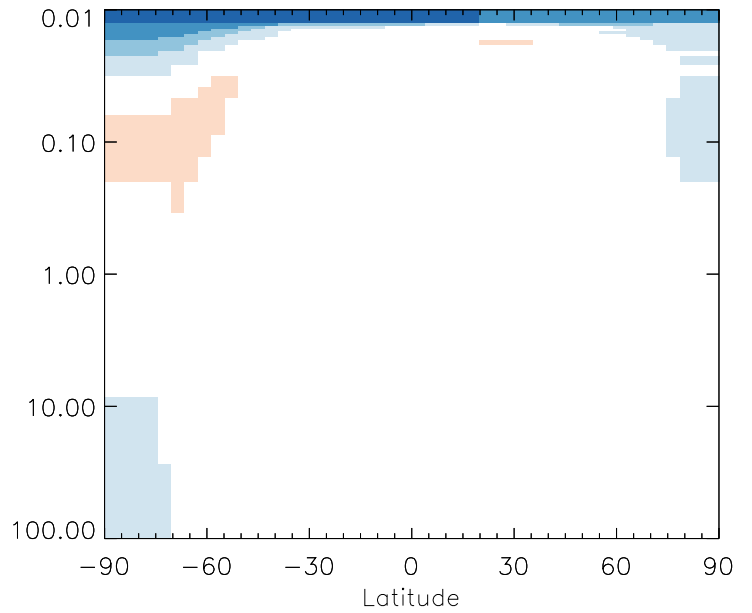
v11-01g-Run0 - v11-01d-Run1

SO<sub>2</sub> - Strat zonal mean abs diff for Jul



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

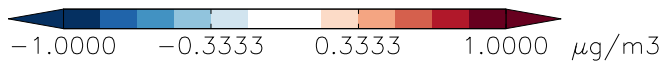
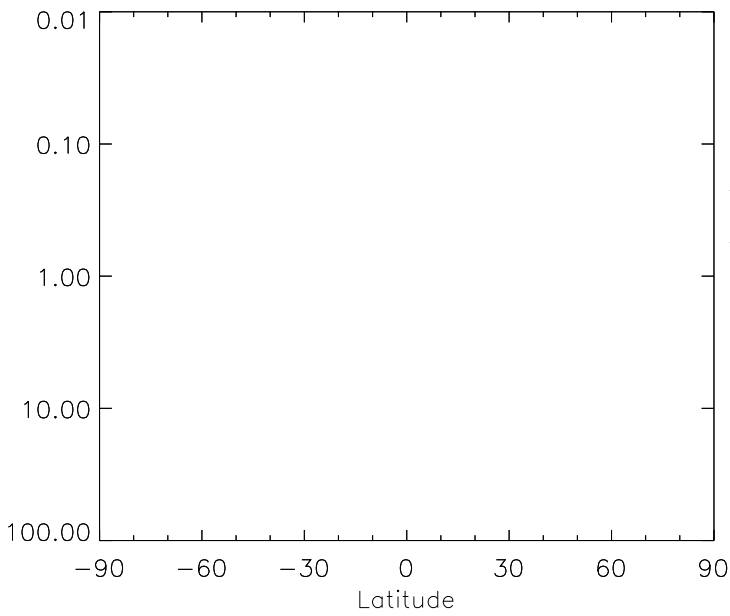
SO<sub>2</sub> - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

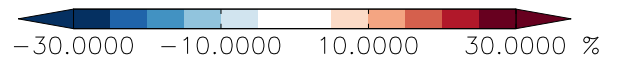
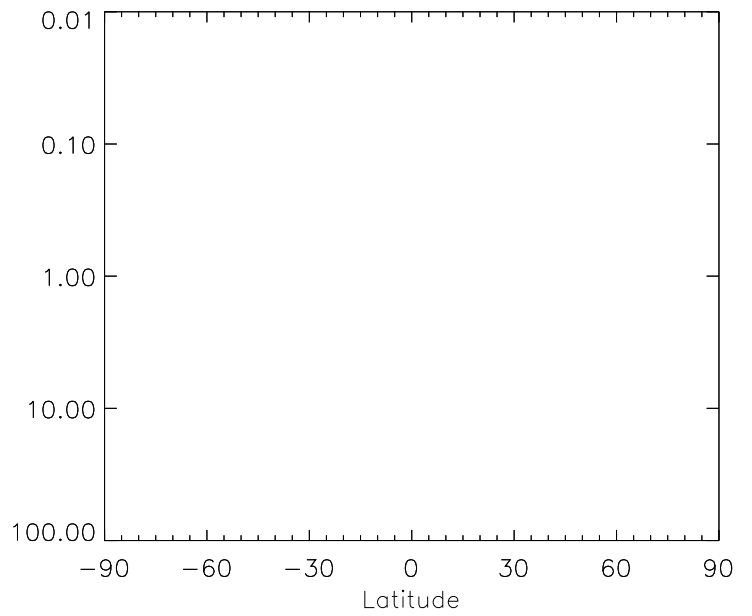
v11-01g-Run0 - v11-01f-geosfp-Run0

SO4 - Strat zonal mean abs diff for Jul



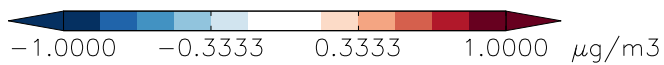
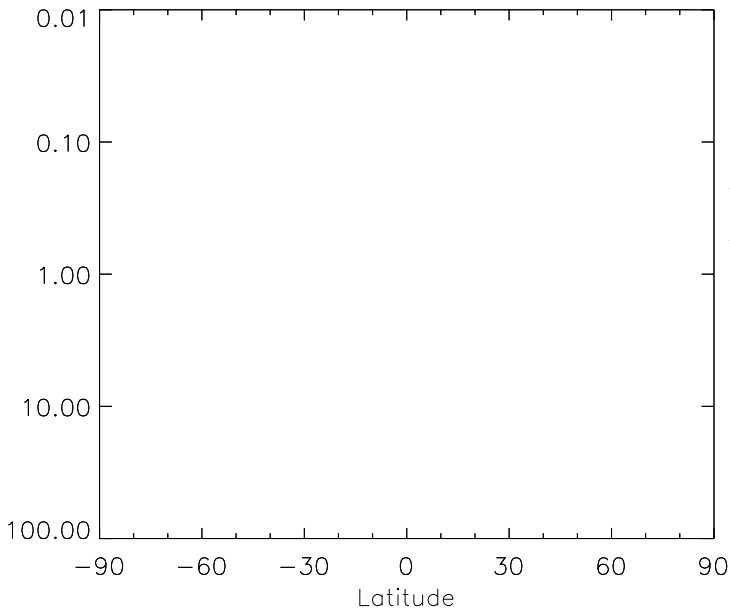
v11-01g-Run0 / v11-01f-geosfp-Run0

SO4 - Strat zonal mean % diff for Jul



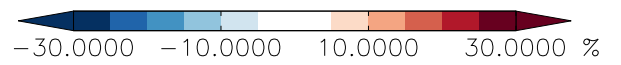
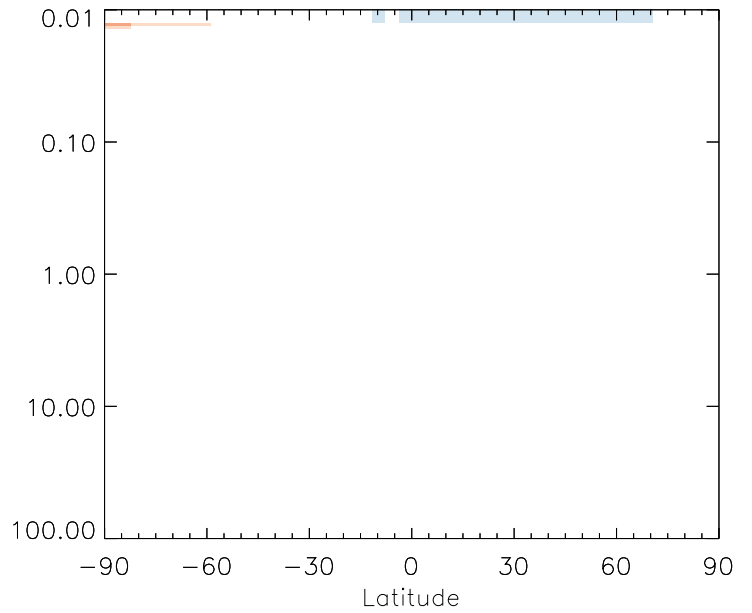
v11-01g-Run0 - v11-01d-Run1

SO4 - Strat zonal mean abs diff for Jul



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

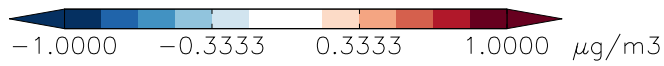
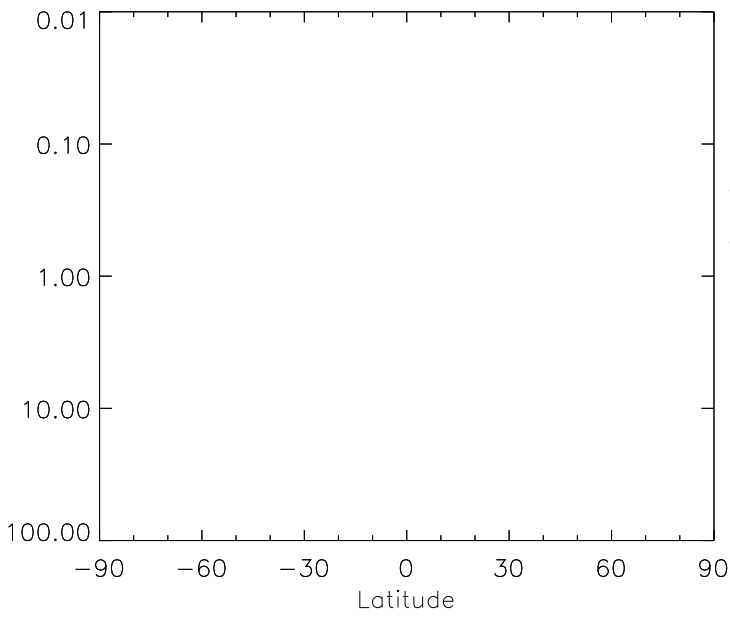
SO4 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

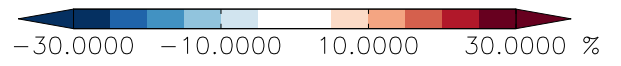
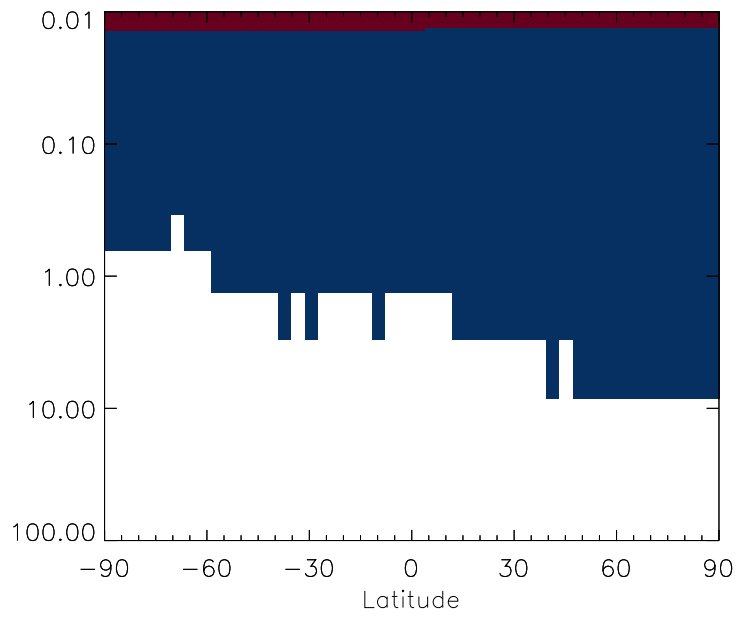
v11-01g-Run0 - v11-01f-geosfp-Run0

S04s - Strat zonal mean abs diff for Jul



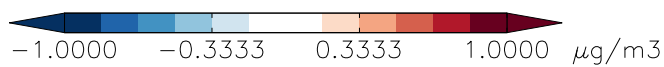
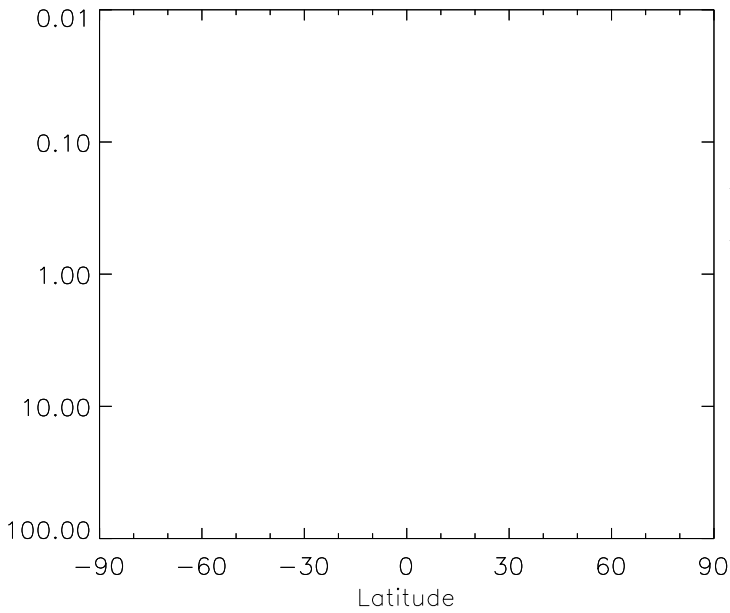
v11-01g-Run0 / v11-01f-geosfp-Run0

S04s - Strat zonal mean % diff for Jul



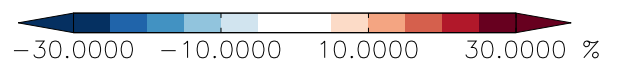
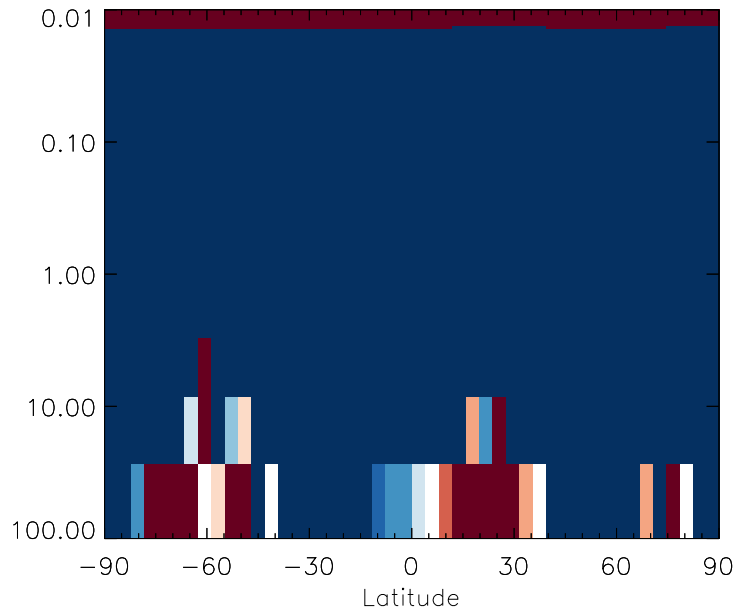
v11-01g-Run0 - v11-01d-Run1

S04s - Strat zonal mean abs diff for Jul



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

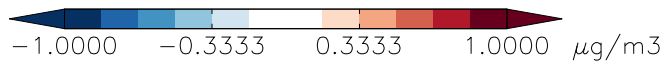
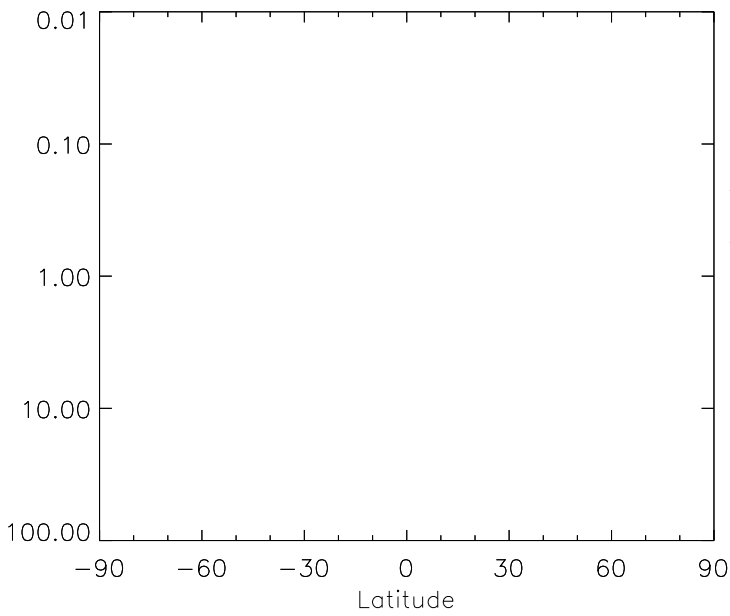
S04s - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

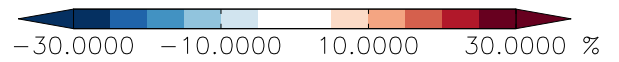
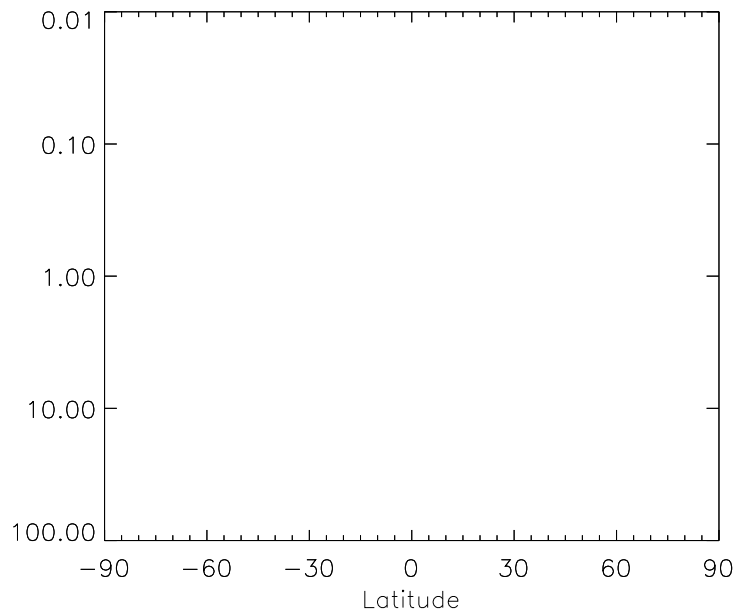
v11-01g-Run0 - v11-01f-geosfp-Run0

MSA - Strat zonal mean abs diff for Jul



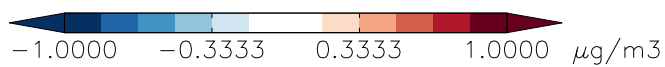
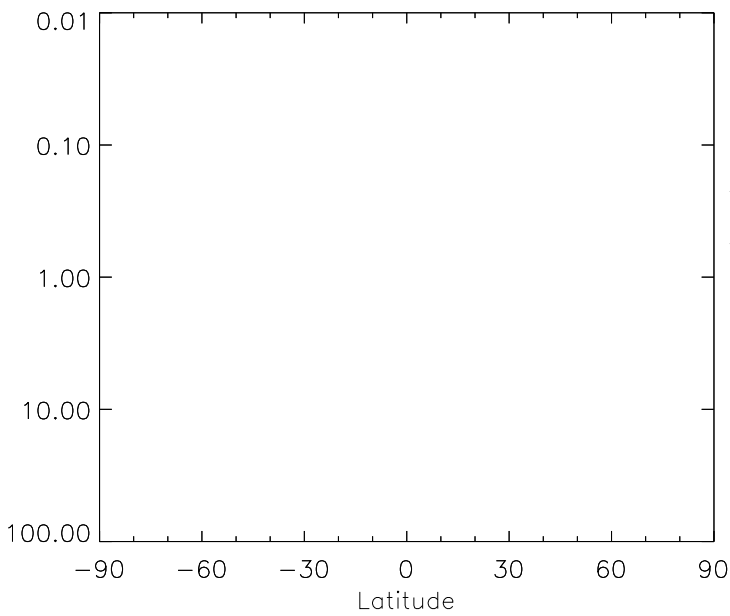
v11-01g-Run0 / v11-01f-geosfp-Run0

MSA - Strat zonal mean % diff for Jul



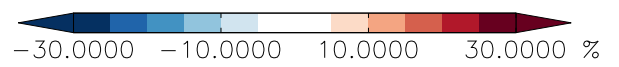
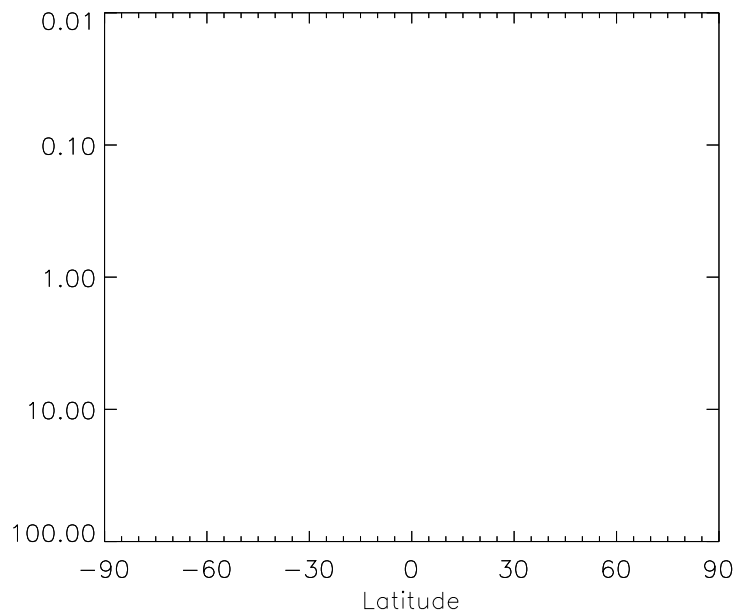
v11-01g-Run0 - v11-01d-Run1

MSA - Strat zonal mean abs diff for Jul



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

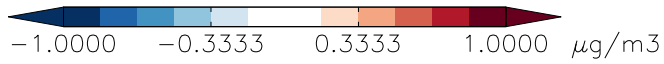
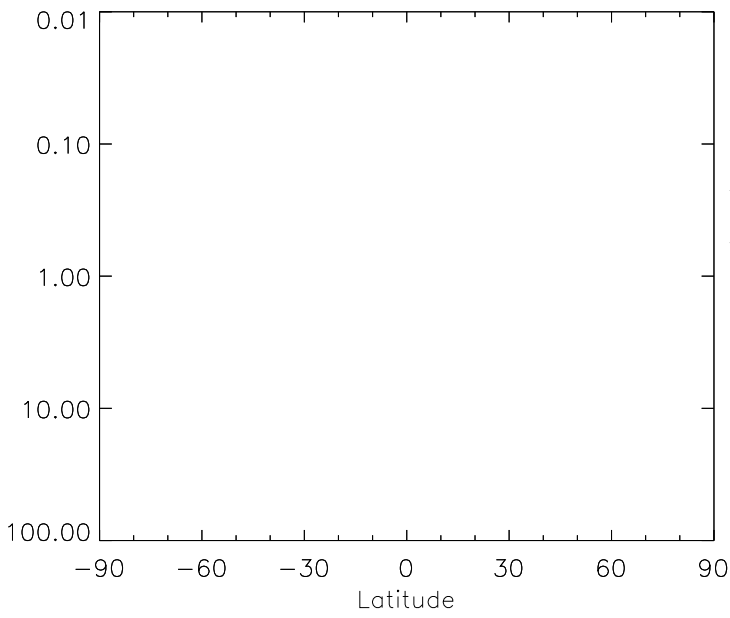
MSA - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

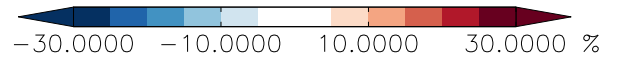
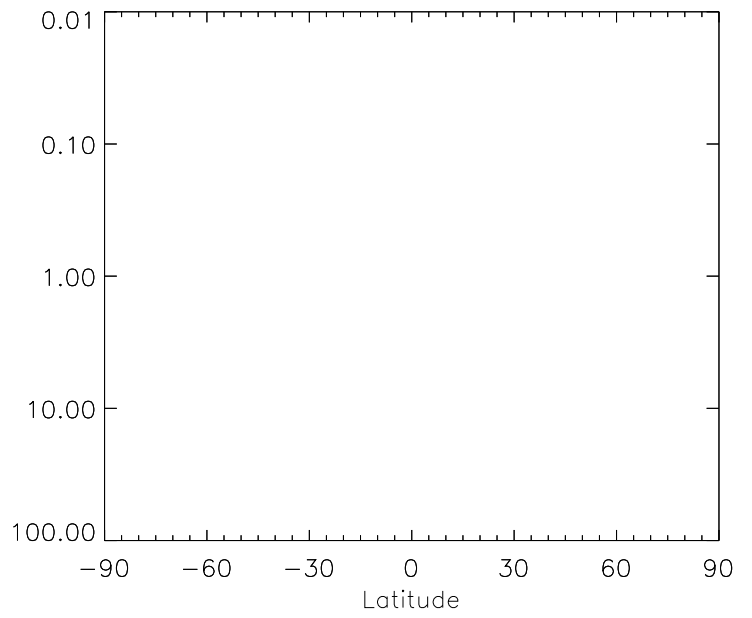
v11-01g-Run0 - v11-01f-geosfp-Run0

NH3 - Strat zonal mean abs diff for Jul



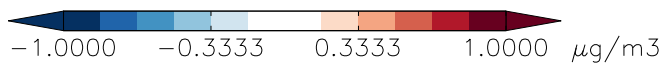
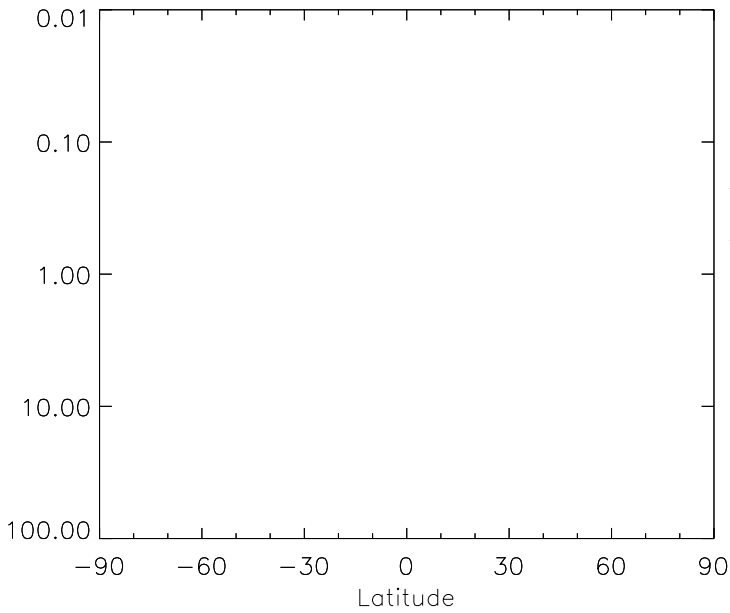
v11-01g-Run0 / v11-01f-geosfp-Run0

NH3 - Strat zonal mean % diff for Jul



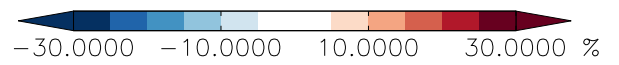
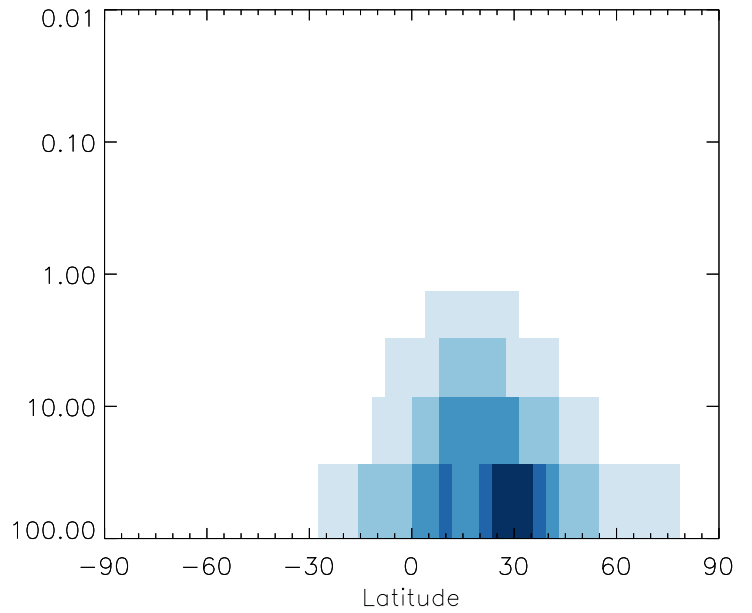
v11-01g-Run0 - v11-01d-Run1

NH3 - Strat zonal mean abs diff for Jul



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

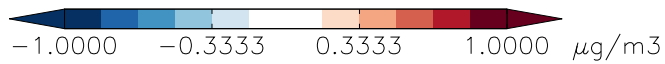
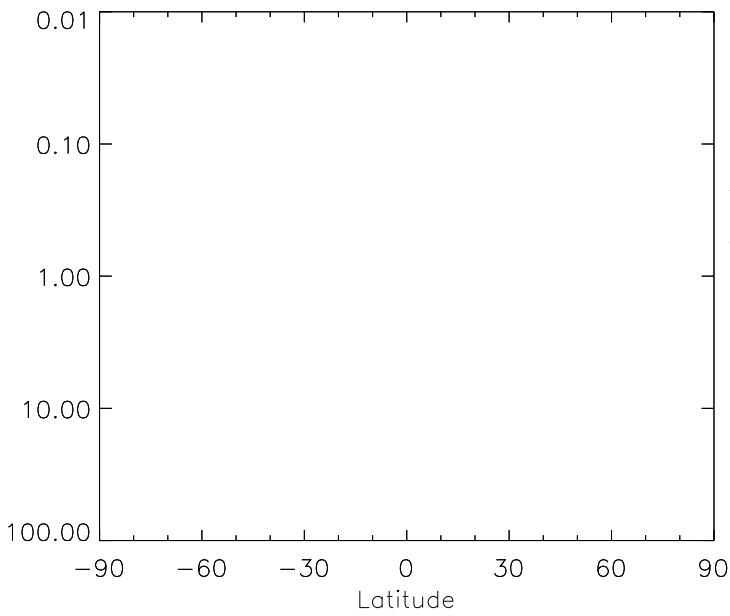
NH3 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

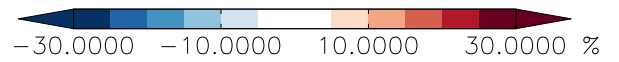
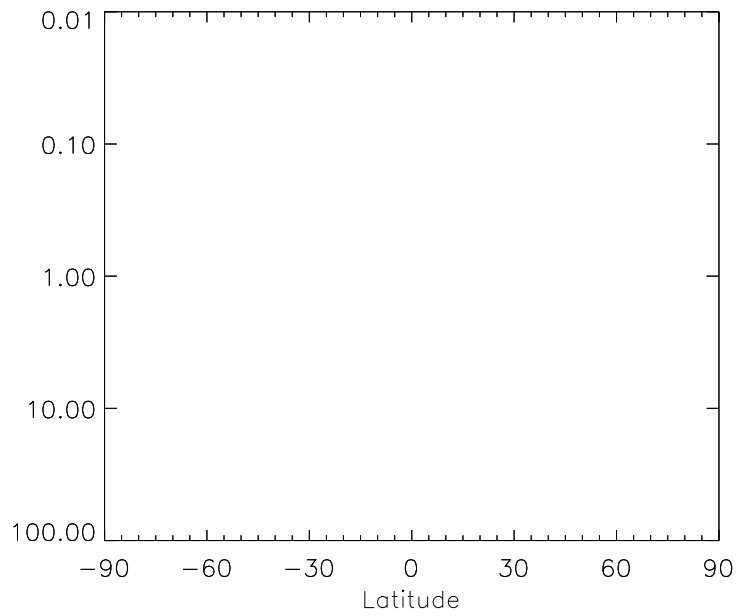
v11-01g-Run0 - v11-01f-geosfp-Run0

NH4 - Strat zonal mean abs diff for Jul



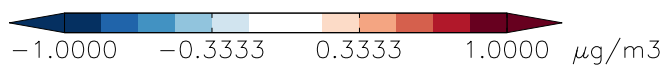
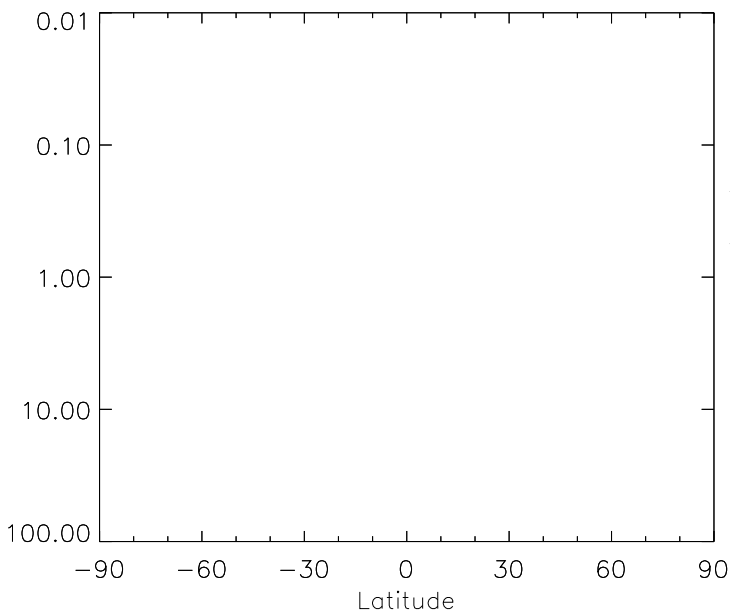
v11-01g-Run0 / v11-01f-geosfp-Run0

NH4 - Strat zonal mean % diff for Jul



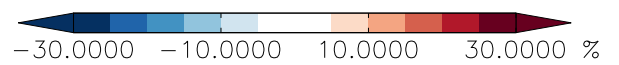
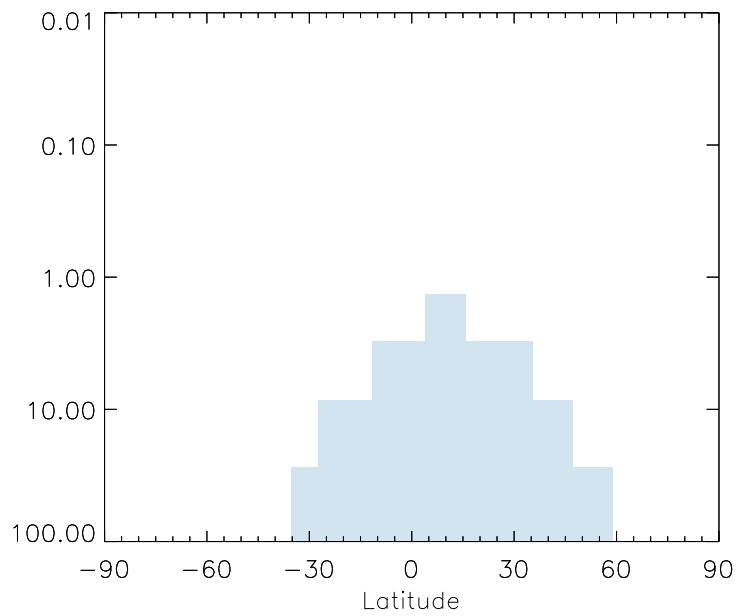
v11-01g-Run0 - v11-01d-Run1

NH4 - Strat zonal mean abs diff for Jul



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

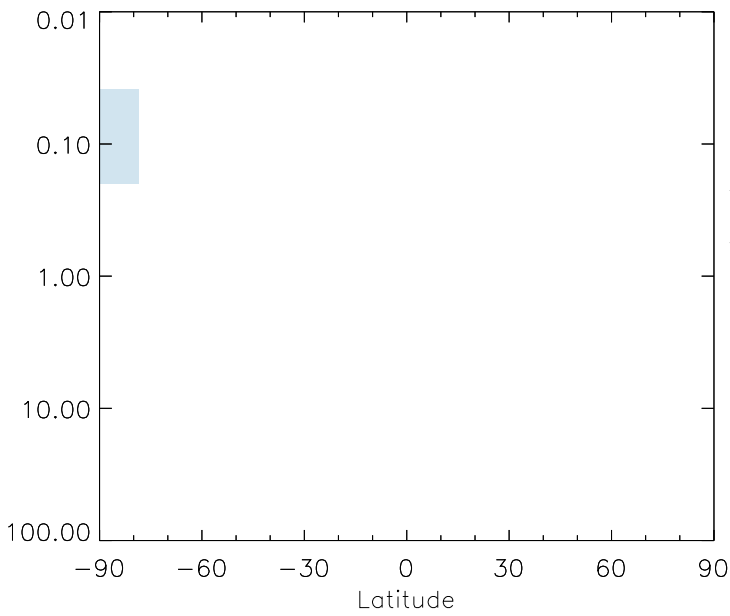
NH4 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

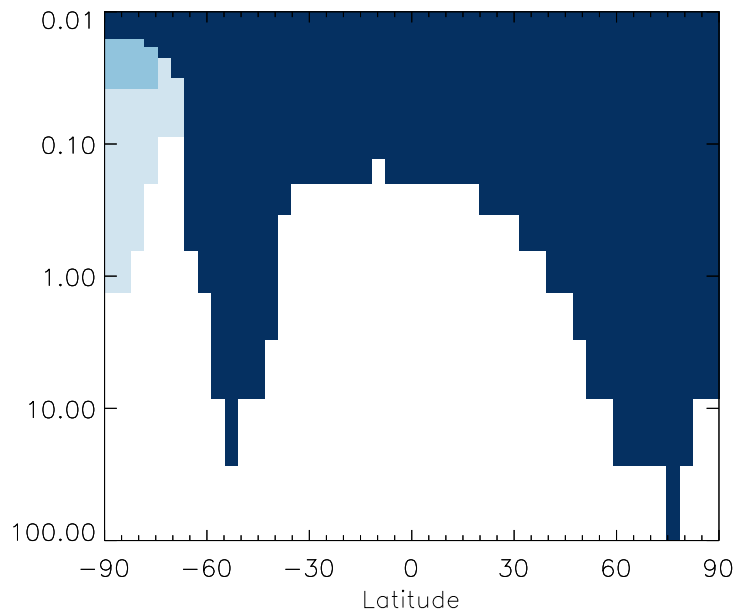
v11-01g-Run0 - v11-01f-geosfp-Run0

NIT - Strat zonal mean abs diff for Jul



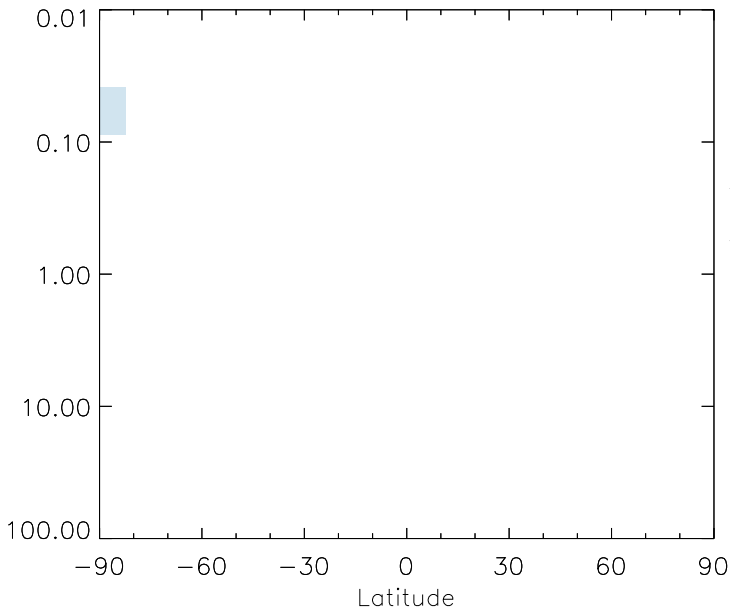
v11-01g-Run0 / v11-01f-geosfp-Run0

NIT - Strat zonal mean % diff for Jul



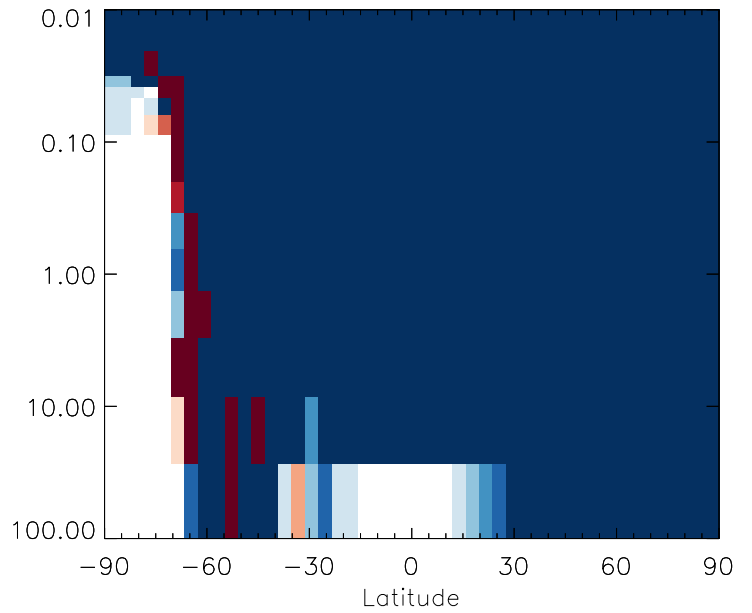
v11-01g-Run0 - v11-01d-Run1

NIT - Strat zonal mean abs diff for Jul



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

NIT - Strat zonal mean % diff for Jul

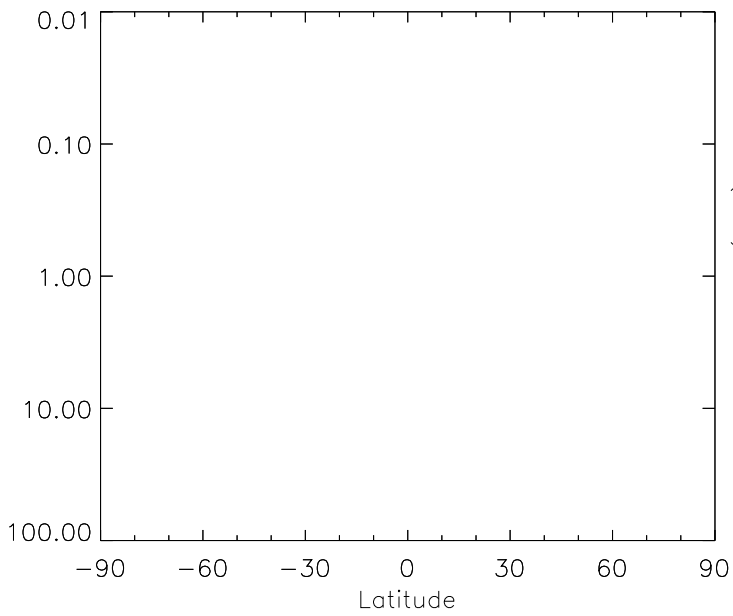




GEOS-Chem Stratospheric Zonal Difference Maps

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

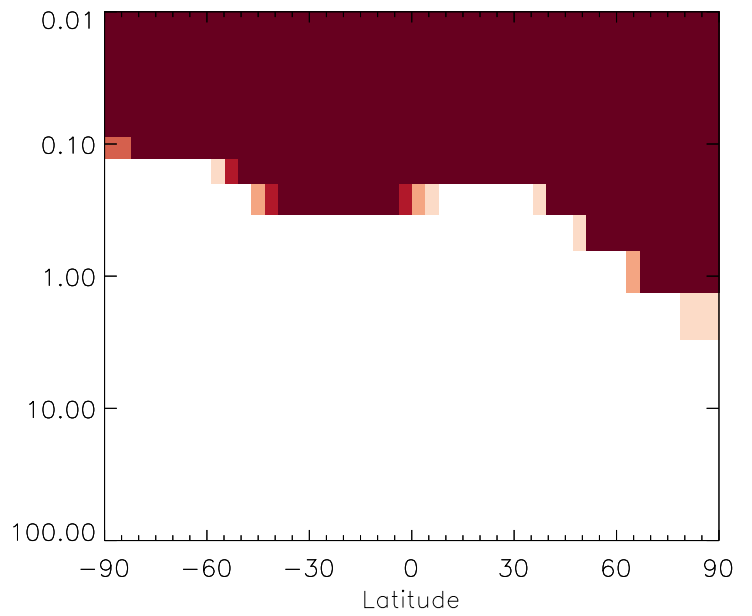
NITs - Strat zonal mean abs diff for Jul



-1.0000 -0.3333 0.3333 1.0000  $\mu\text{g}/\text{m}^3$

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

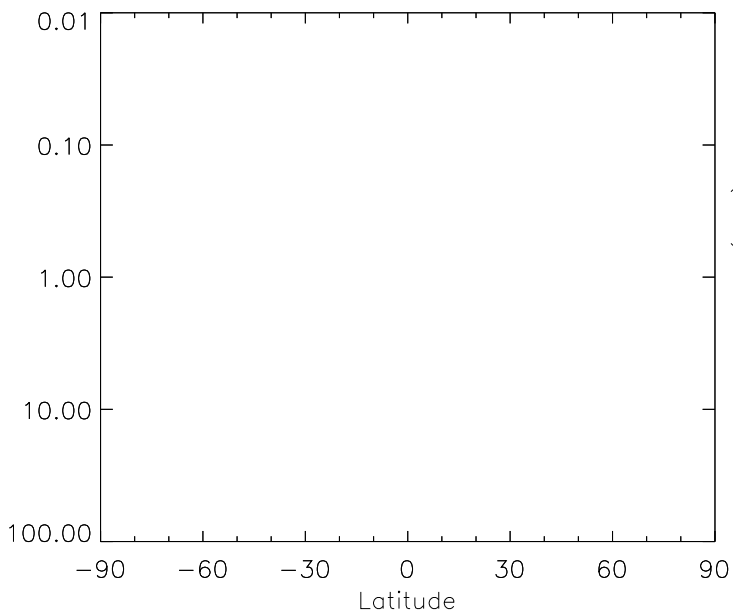
NITs - Strat zonal mean % diff for Jul



-30.0000 -10.0000 10.0000 30.0000 %

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

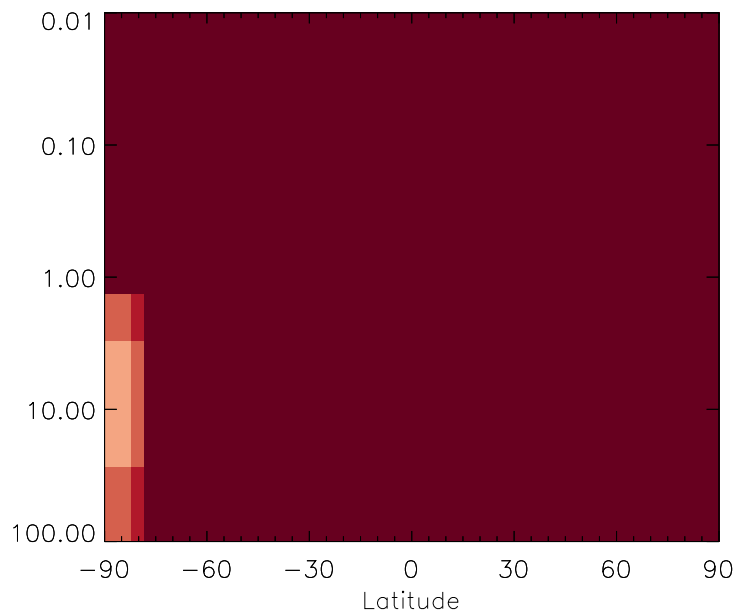
NITs - Strat zonal mean abs diff for Jul



-1.0000 -0.3333 0.3333 1.0000  $\mu\text{g}/\text{m}^3$

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

NITs - Strat zonal mean % diff for Jul

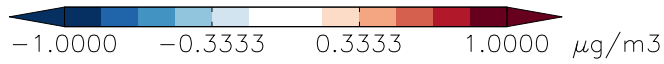
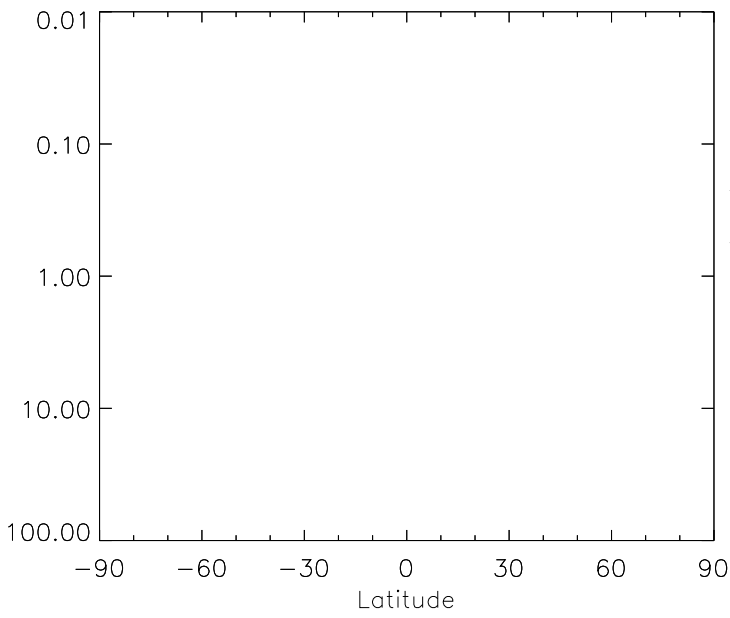


-30.0000 -10.0000 10.0000 30.0000 %

GEOS-Chem Stratospheric Zonal Difference Maps

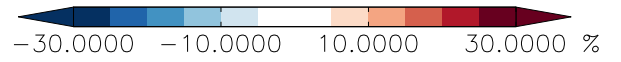
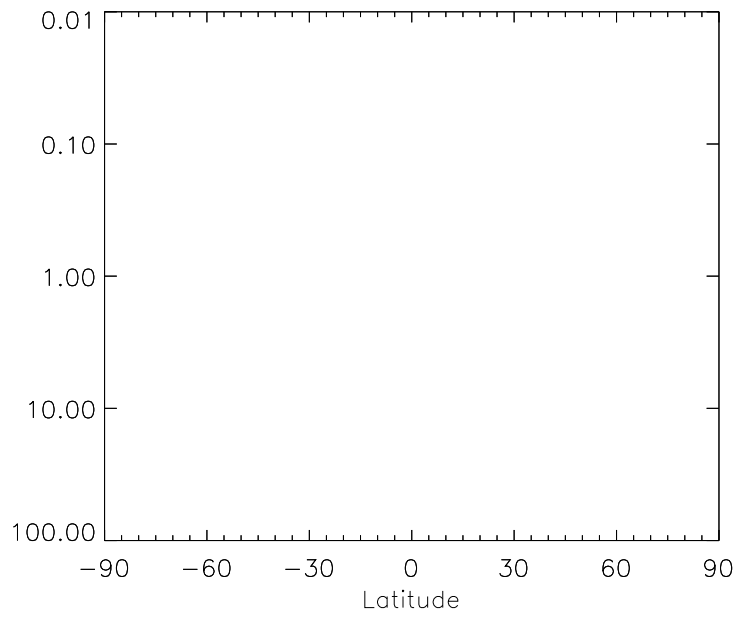
v11-01g-Run0 - v11-01f-geosfp-Run0

BCPI - Strat zonal mean abs diff for Jul



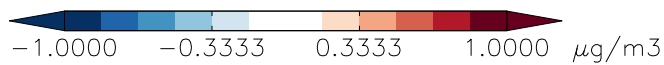
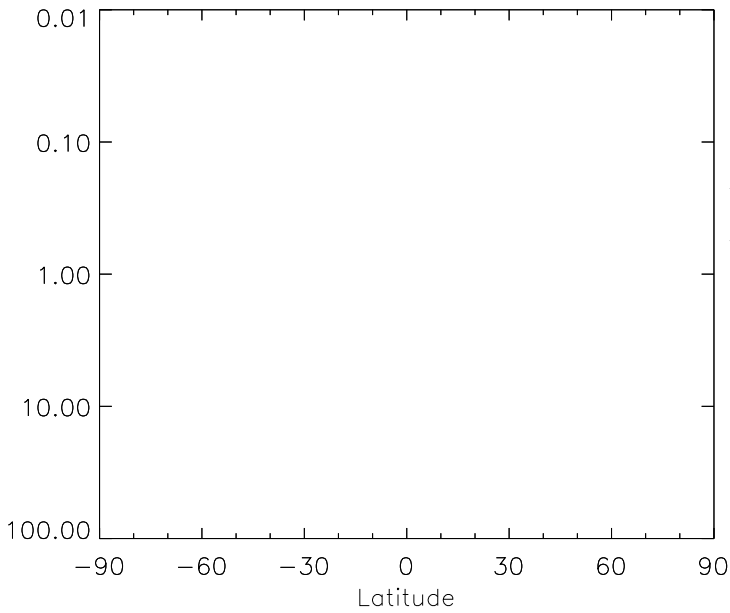
v11-01g-Run0 / v11-01f-geosfp-Run0

BCPI - Strat zonal mean % diff for Jul



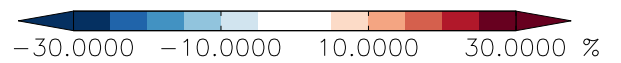
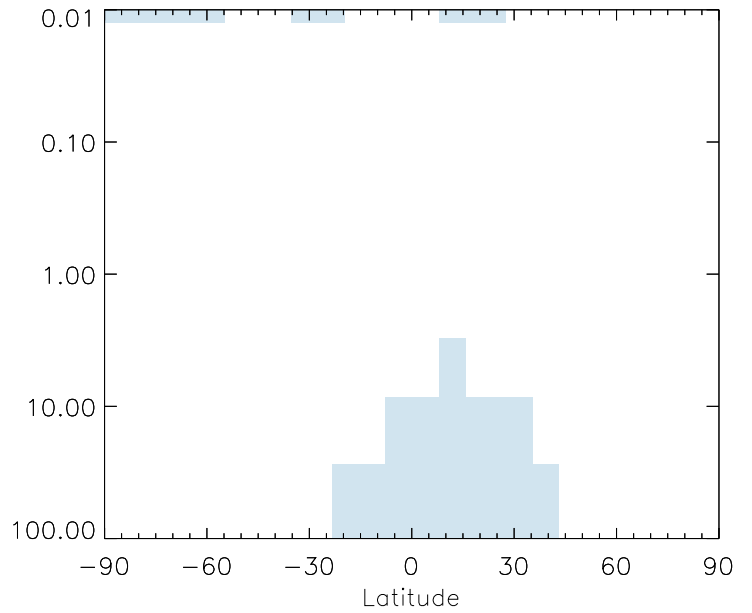
v11-01g-Run0 - v11-01d-Run1

BCPI - Strat zonal mean abs diff for Jul



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

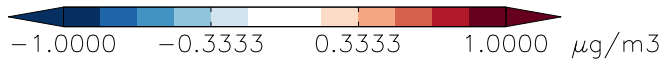
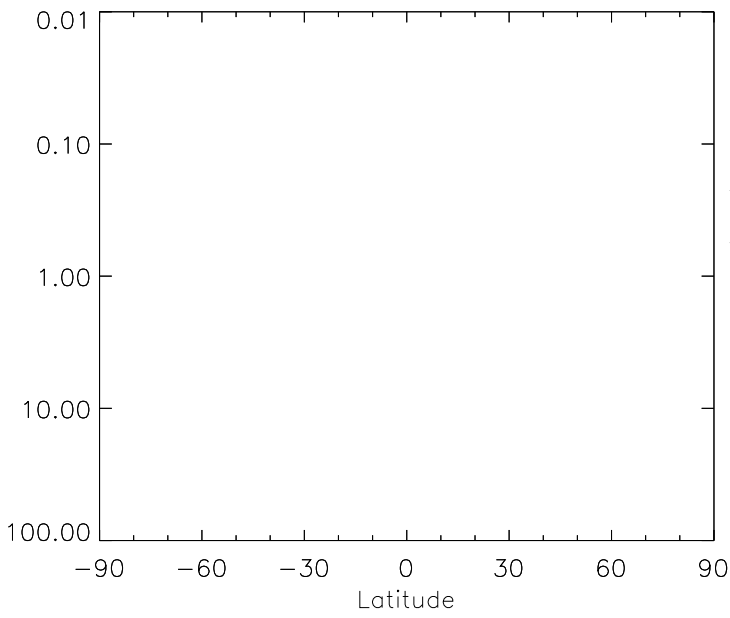
BCPI - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

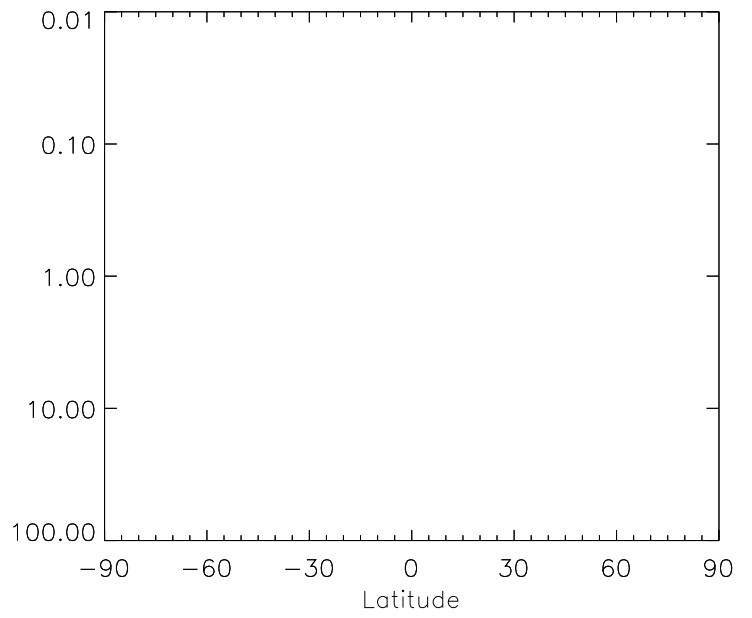
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPI - Strat zonal mean abs diff for Jul



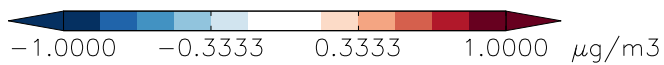
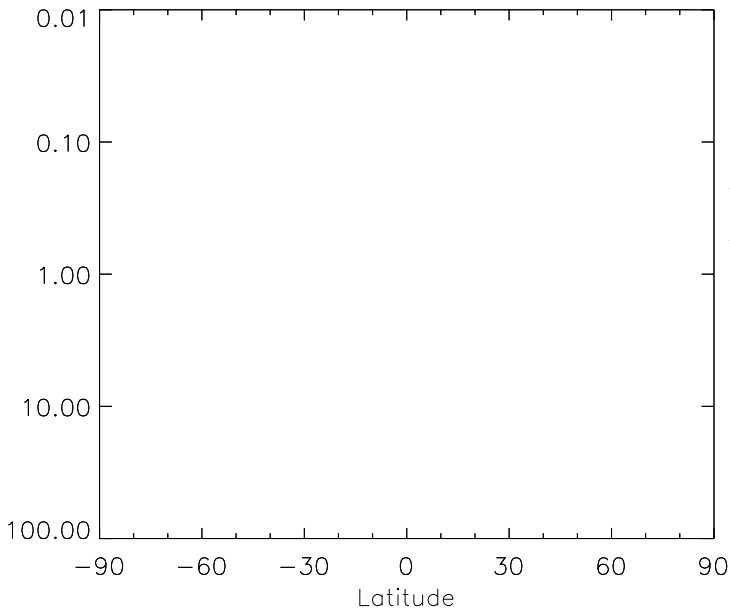
v11-01g-Run0 / v11-01f-geosfp-Run0

OCPI - Strat zonal mean % diff for Jul



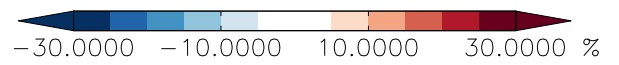
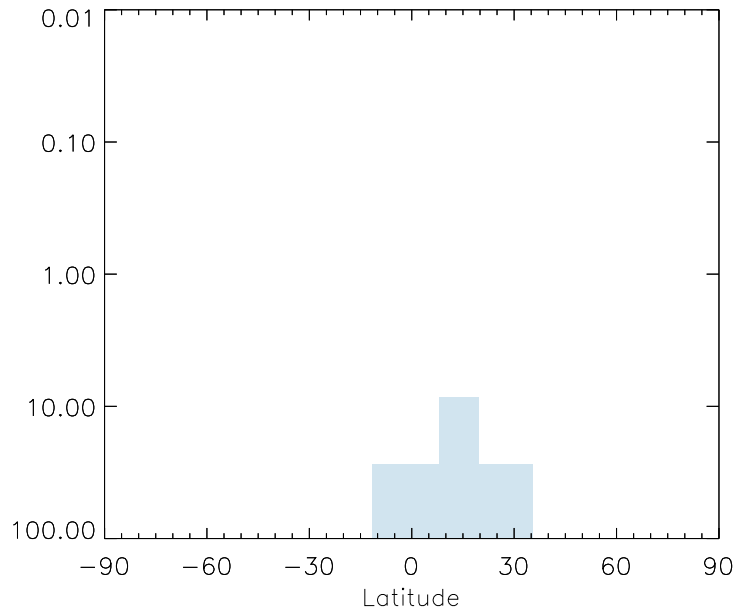
v11-01g-Run0 - v11-01d-Run1

OCPI - Strat zonal mean abs diff for Jul



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

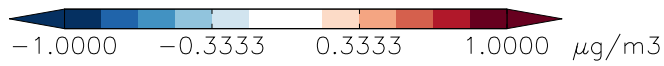
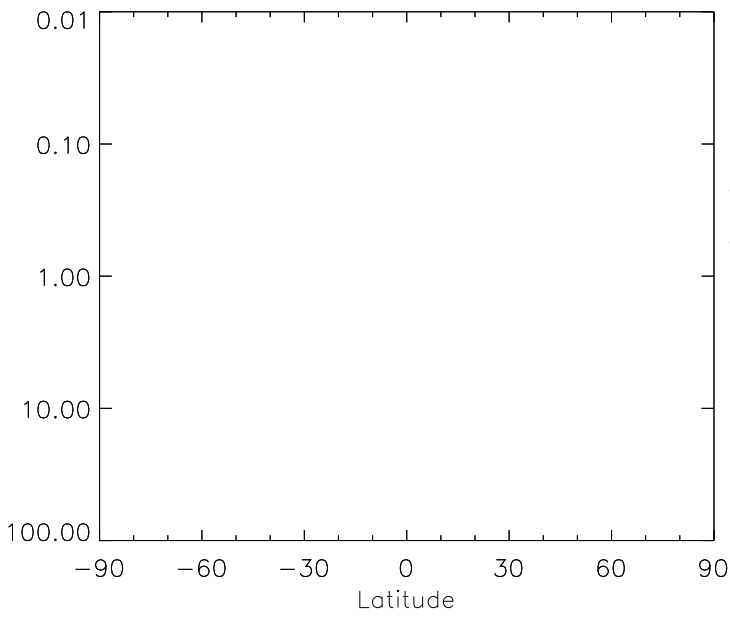
OCPI - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

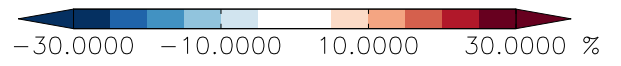
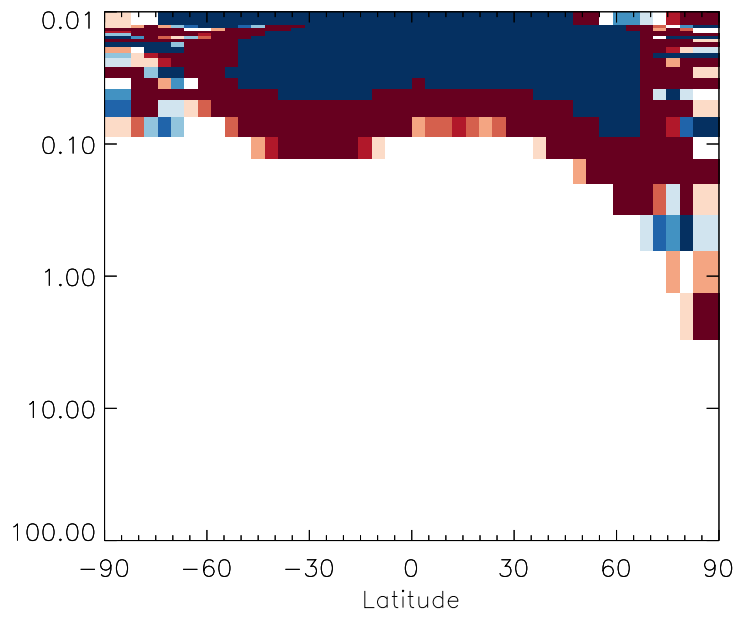
v11-01g-Run0 - v11-01f-geosp-Run0

BCPO - Strat zonal mean abs diff for Jul



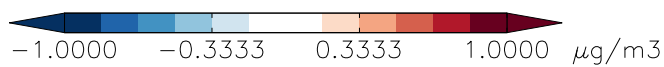
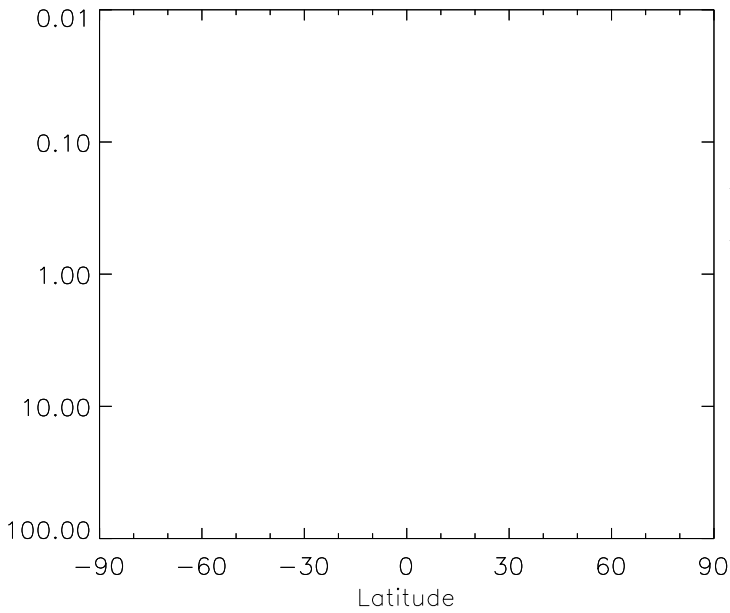
v11-01g-Run0 / v11-01f-geosp-Run0

BCPO - Strat zonal mean % diff for Jul



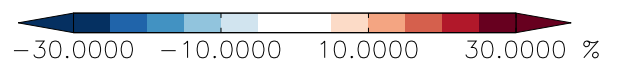
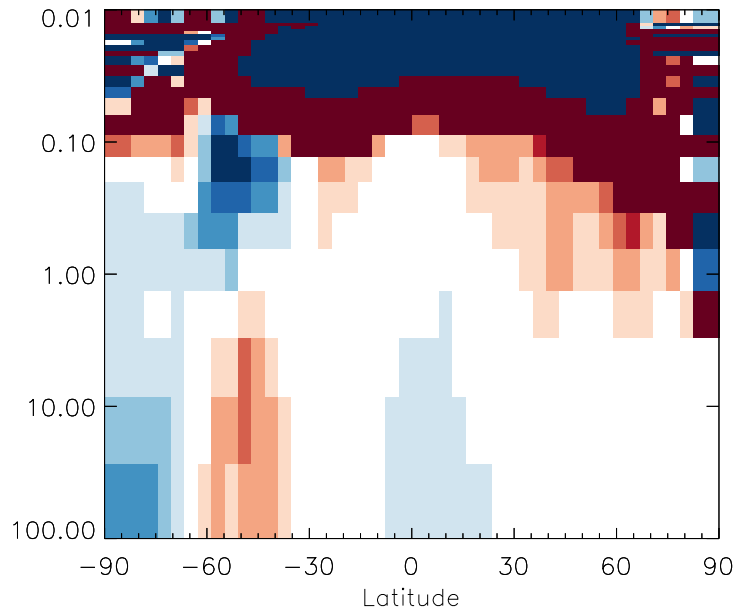
v11-01g-Run0 - v11-01d-Run1

BCPO - Strat zonal mean abs diff for Jul



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

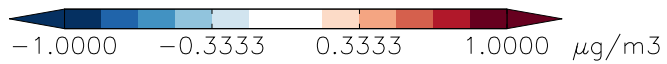
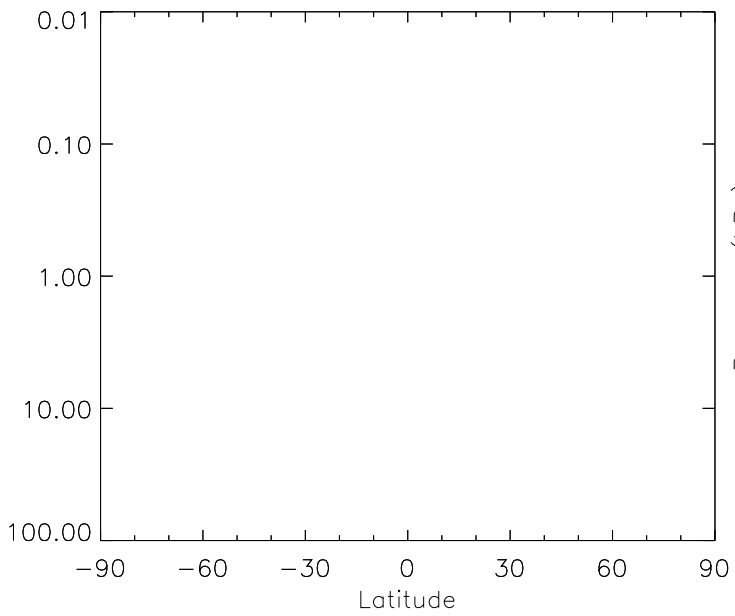
BCPO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

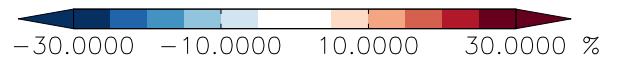
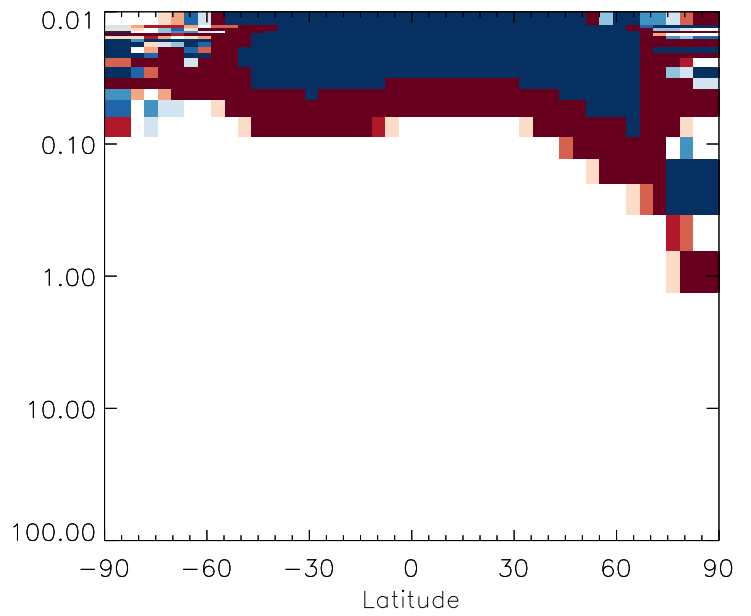
v11-01g-Run0 - v11-01f-geosfp-Run0

OCPO - Strat zonal mean abs diff for Jul



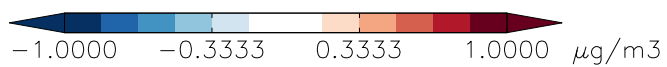
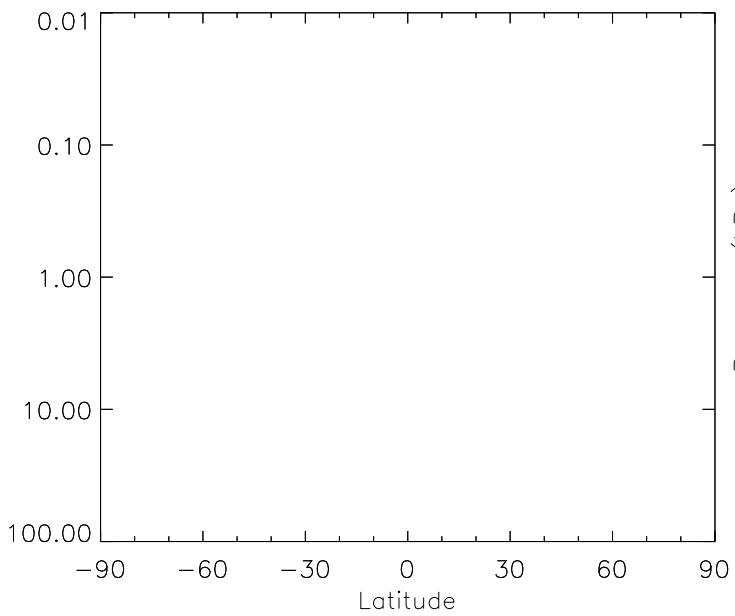
v11-01g-Run0 / v11-01f-geosfp-Run0

OCPO - Strat zonal mean % diff for Jul



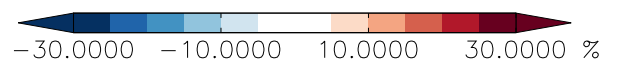
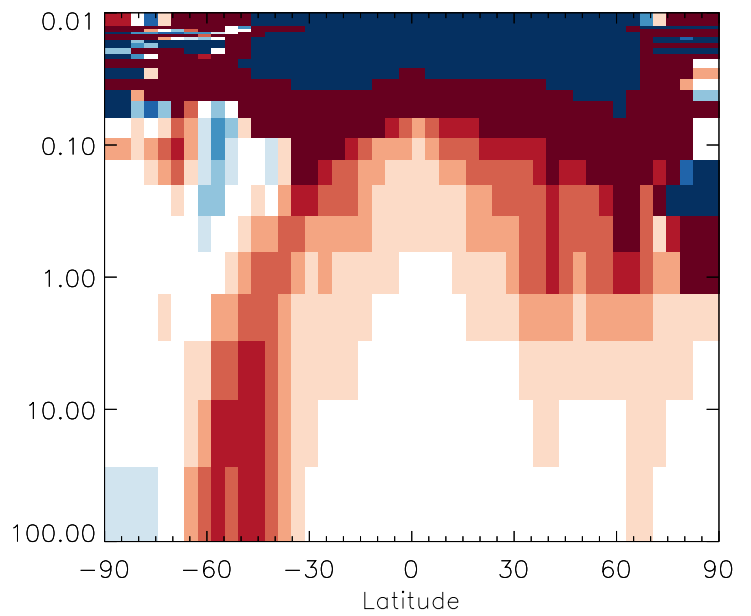
v11-01g-Run0 - v11-01d-Run1

OCPO - Strat zonal mean abs diff for Jul



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

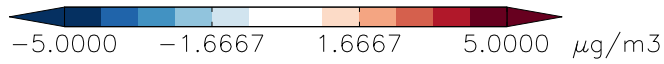
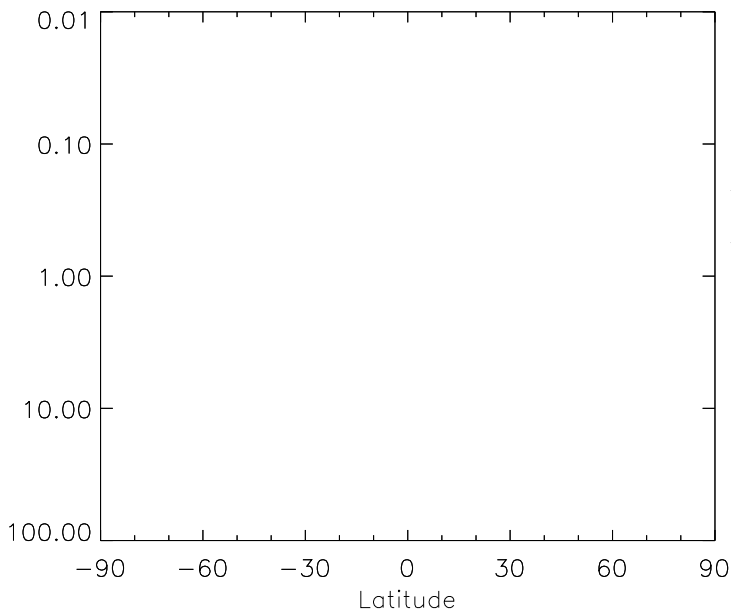
OCPO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

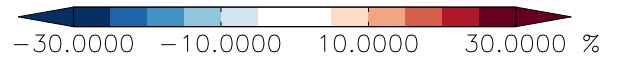
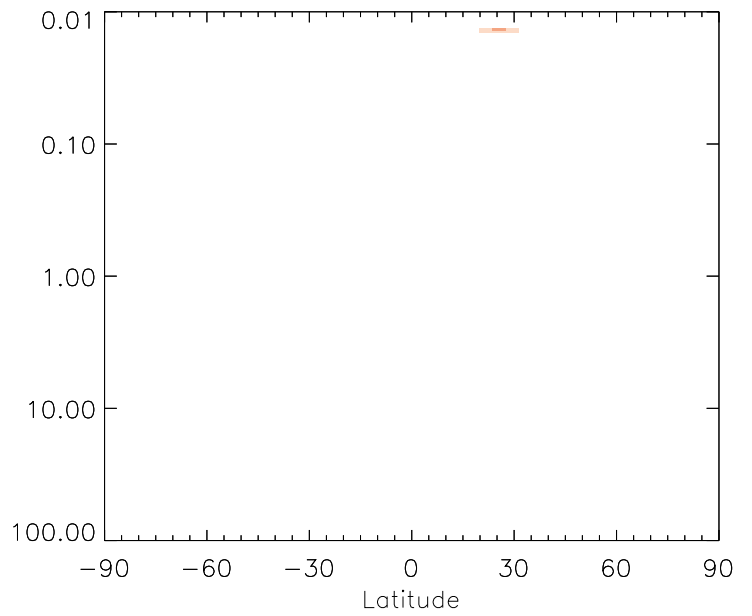
v11-01g-Run0 - v11-01f-geosfp-Run0

DST1 - Strat zonal mean abs diff for Jul



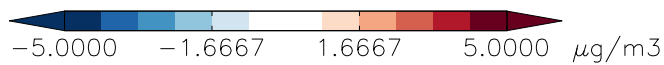
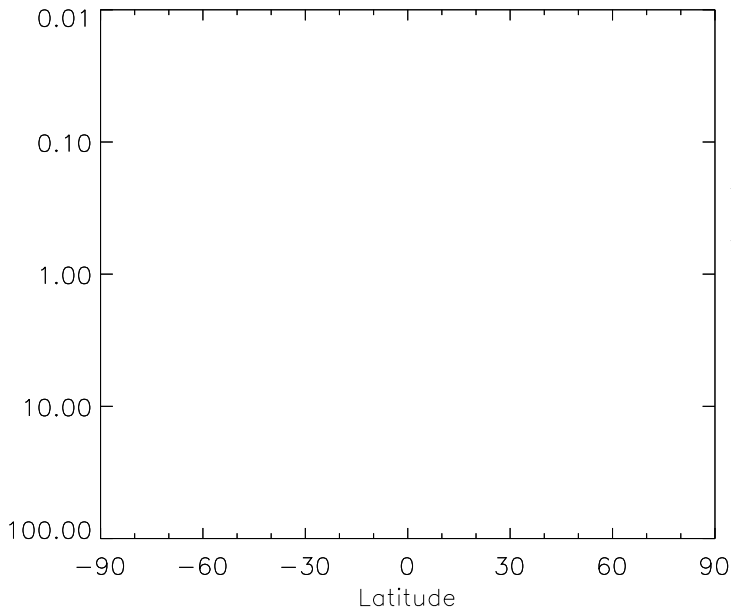
v11-01g-Run0 / v11-01f-geosfp-Run0

DST1 - Strat zonal mean % diff for Jul



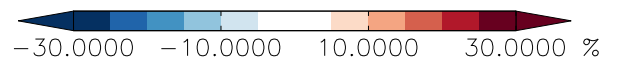
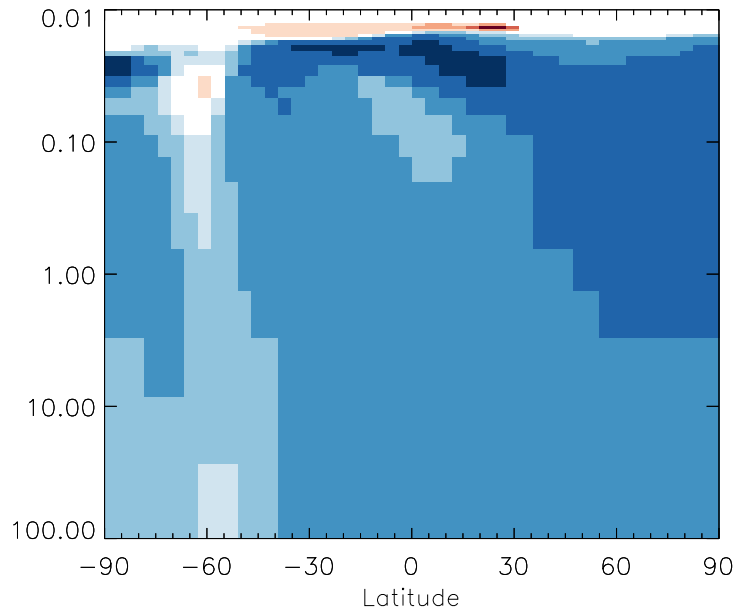
v11-01g-Run0 - v11-01d-Run1

DST1 - Strat zonal mean abs diff for Jul



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

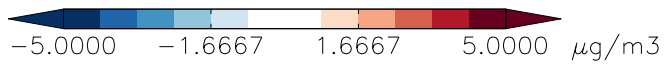
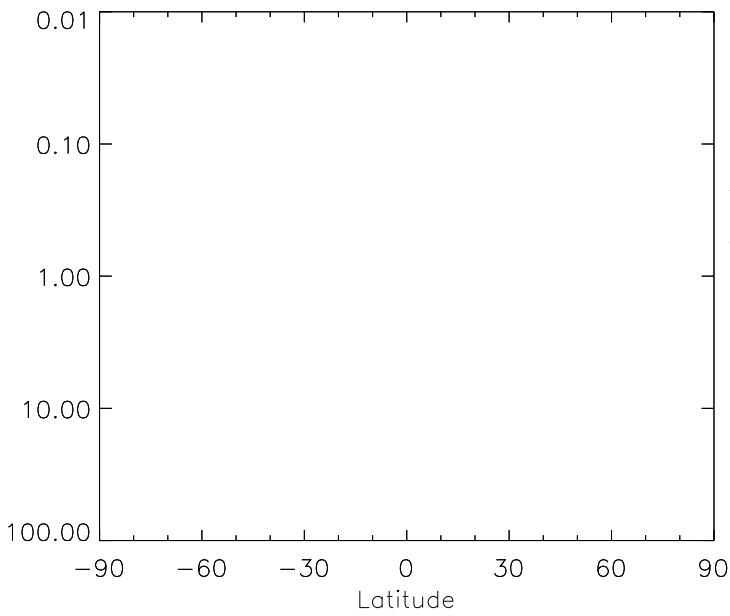
DST1 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

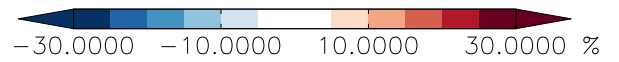
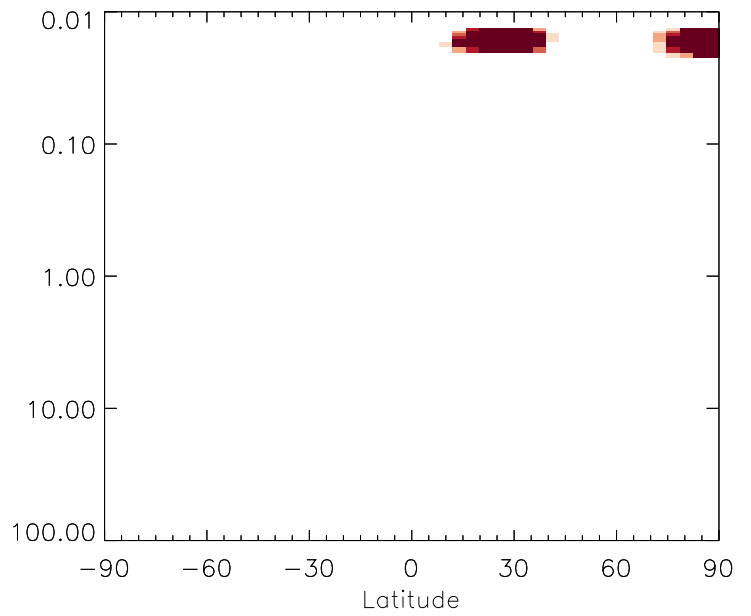
v11-01g-Run0 - v11-01f-geosfp-Run0

DST2 - Strat zonal mean abs diff for Jul



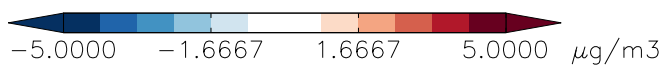
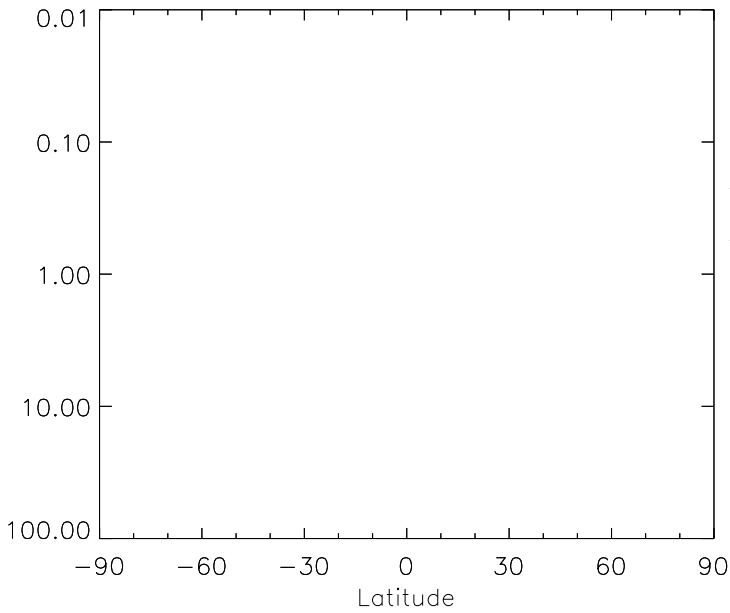
v11-01g-Run0 / v11-01f-geosfp-Run0

DST2 - Strat zonal mean % diff for Jul



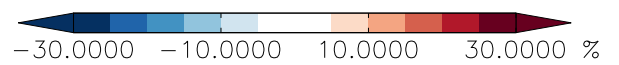
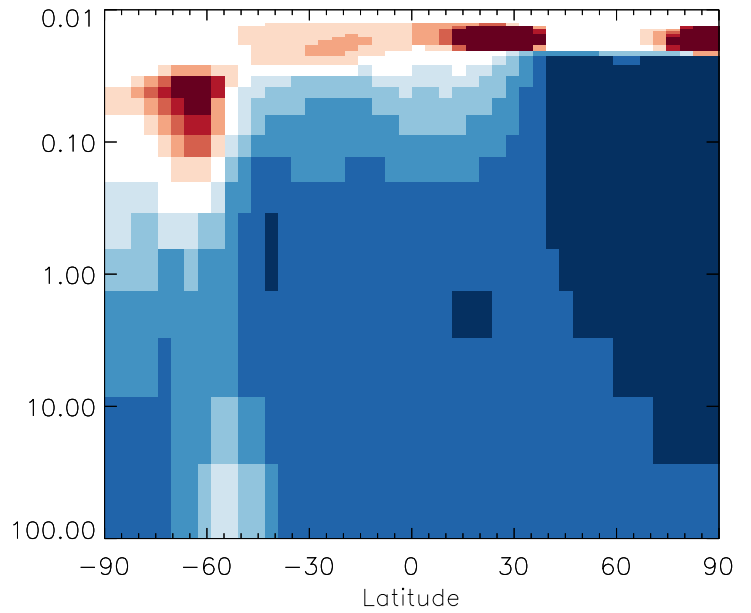
v11-01g-Run0 - v11-01d-Run1

DST2 - Strat zonal mean abs diff for Jul



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

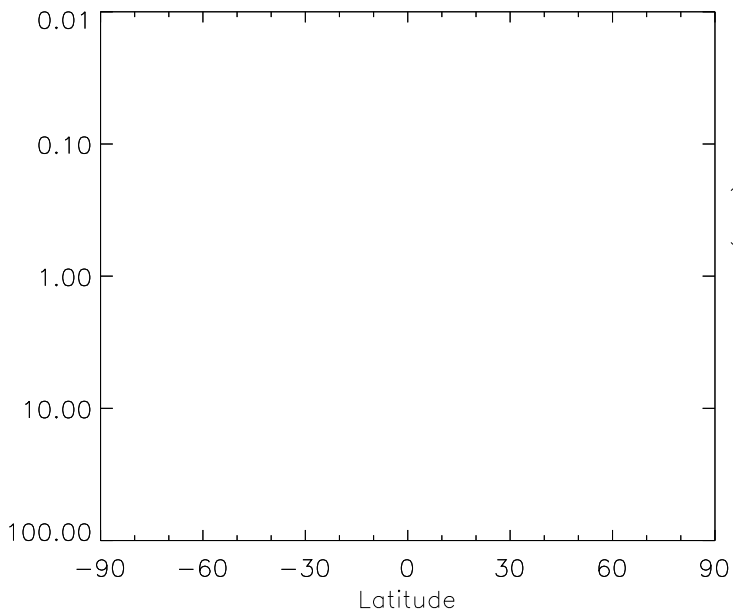
DST2 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

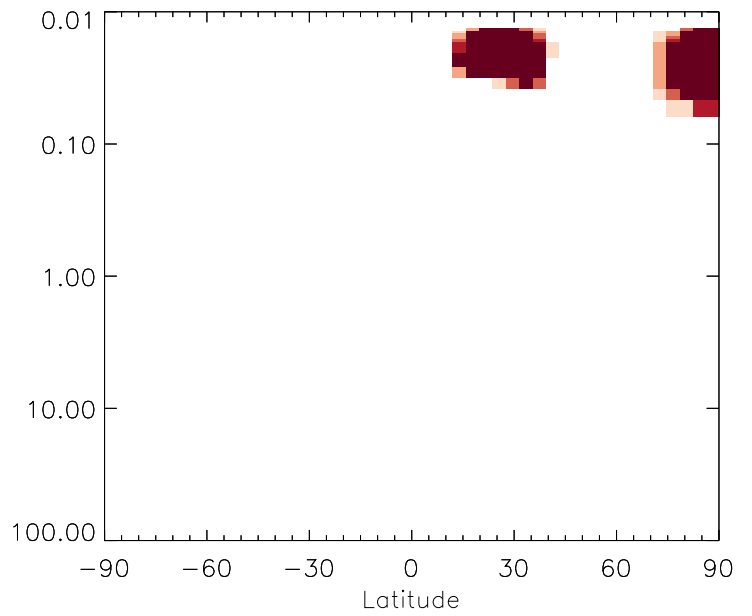
v11-01g-Run0 - v11-01f-geosfp-Run0

DST3 - Strat zonal mean abs diff for Jul



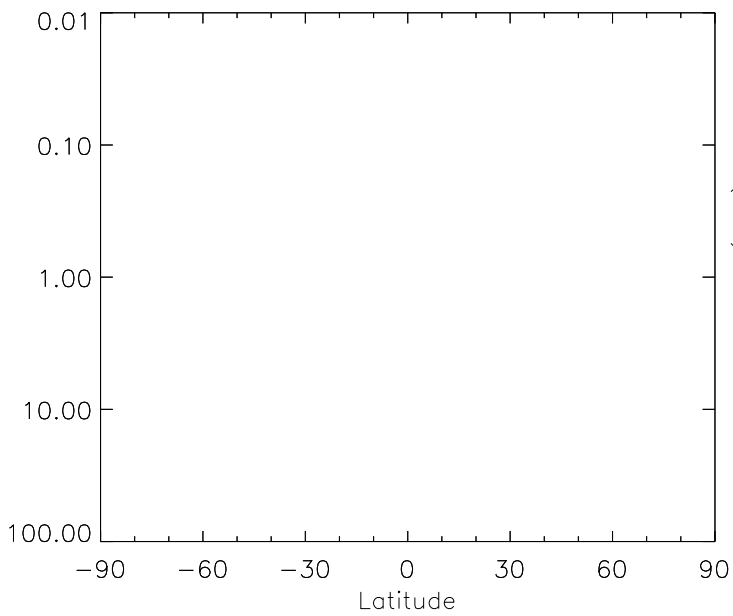
v11-01g-Run0 / v11-01f-geosfp-Run0

DST3 - Strat zonal mean % diff for Jul



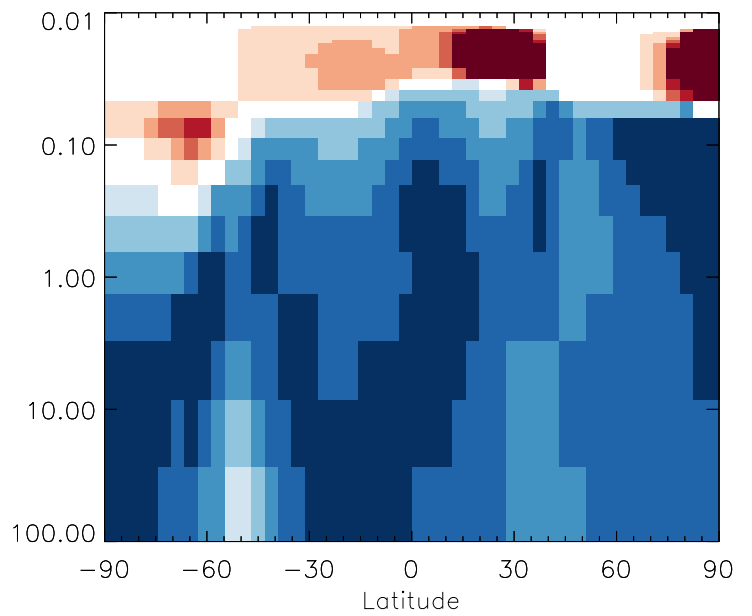
v11-01g-Run0 - v11-01d-Run1

DST3 - Strat zonal mean abs diff for Jul



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

DST3 - Strat zonal mean % diff for Jul

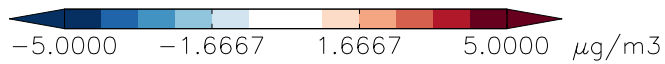
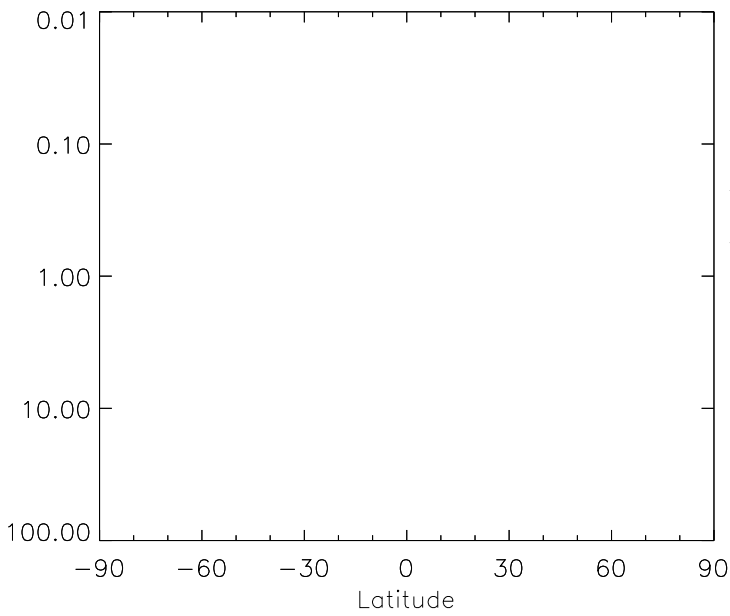




GEOS-Chem Stratospheric Zonal Difference Maps

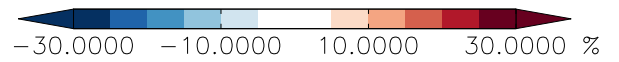
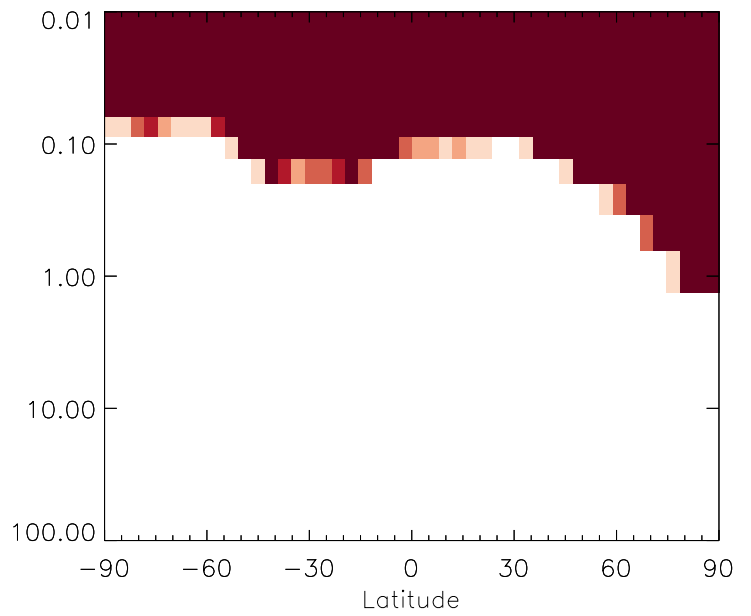
v11-01g-Run0 - v11-01f-geosfp-Run0

DST4 - Strat zonal mean abs diff for Jul



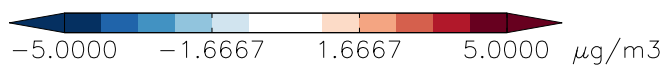
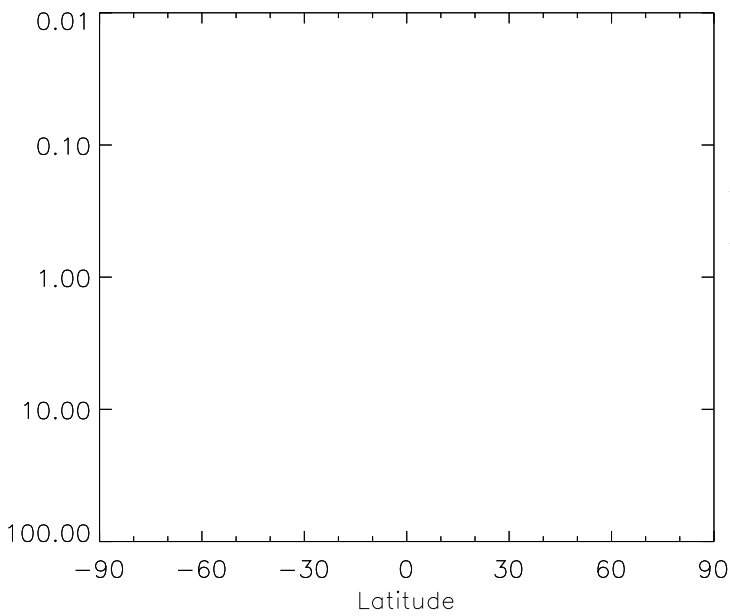
v11-01g-Run0 / v11-01f-geosfp-Run0

DST4 - Strat zonal mean % diff for Jul



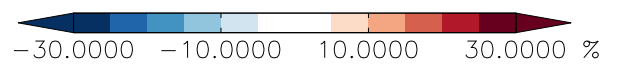
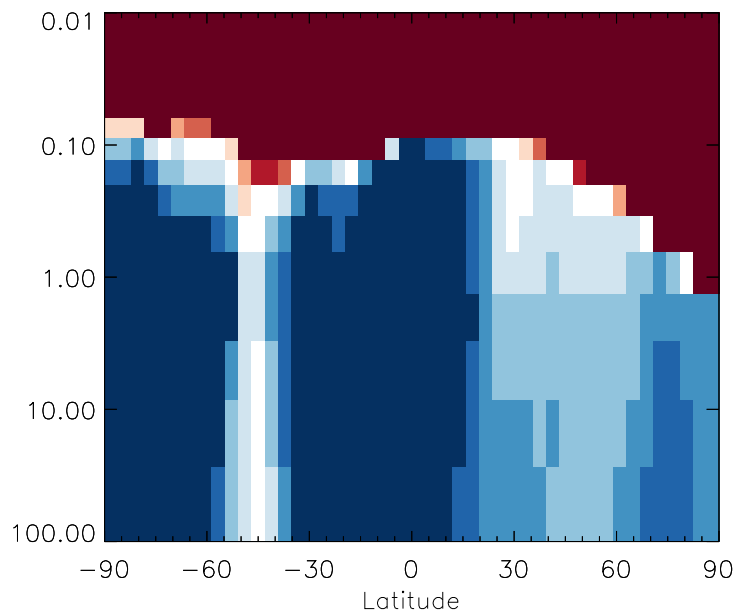
v11-01g-Run0 - v11-01d-Run1

DST4 - Strat zonal mean abs diff for Jul



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

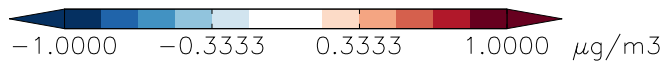
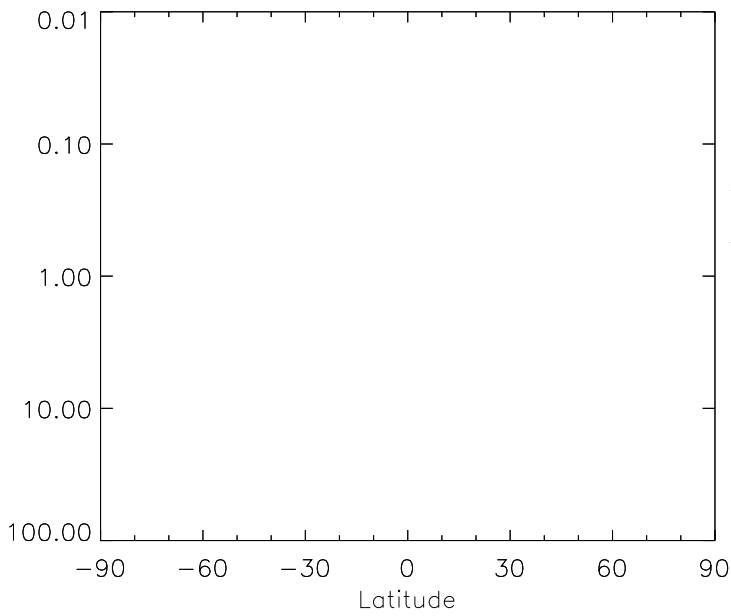
DST4 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

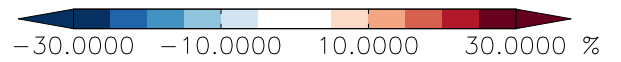
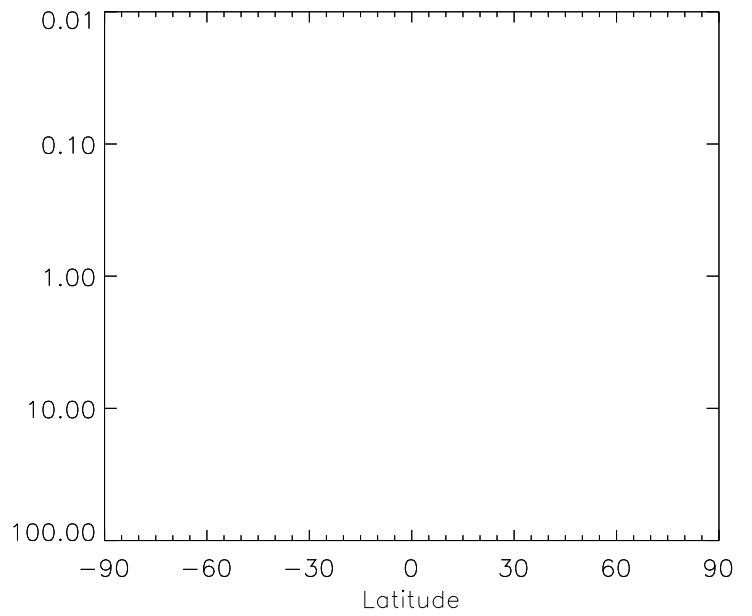
v11-01g-Run0 - v11-01f-geosfp-Run0

SALA - Strat zonal mean abs diff for Jul



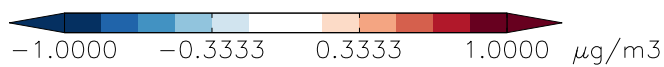
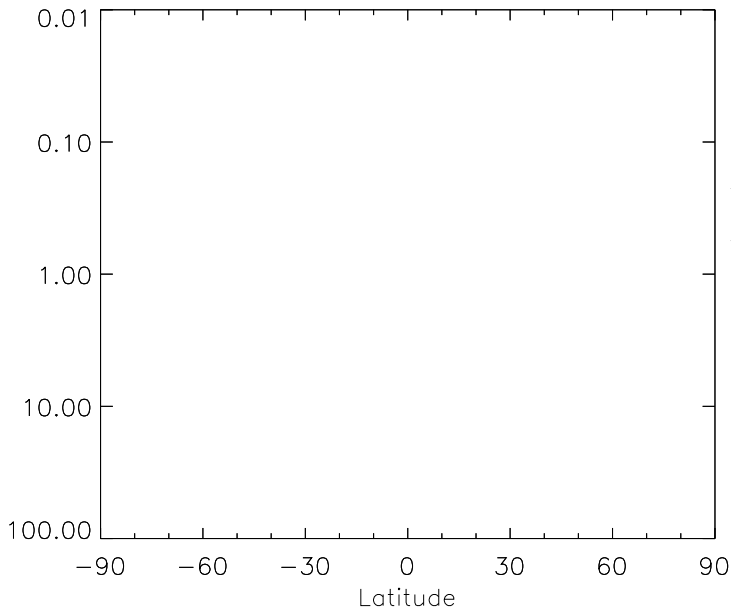
v11-01g-Run0 / v11-01f-geosfp-Run0

SALA - Strat zonal mean % diff for Jul



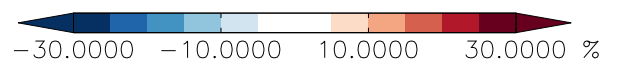
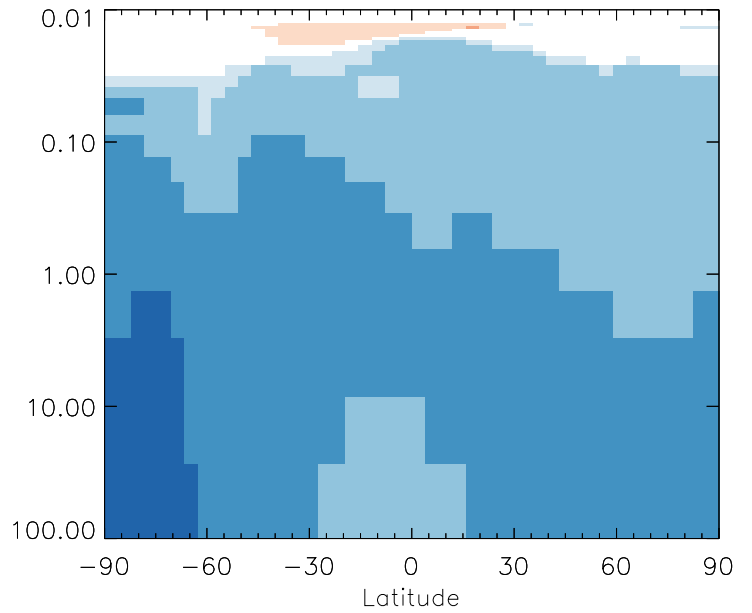
v11-01g-Run0 - v11-01d-Run1

SALA - Strat zonal mean abs diff for Jul



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

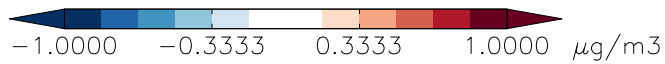
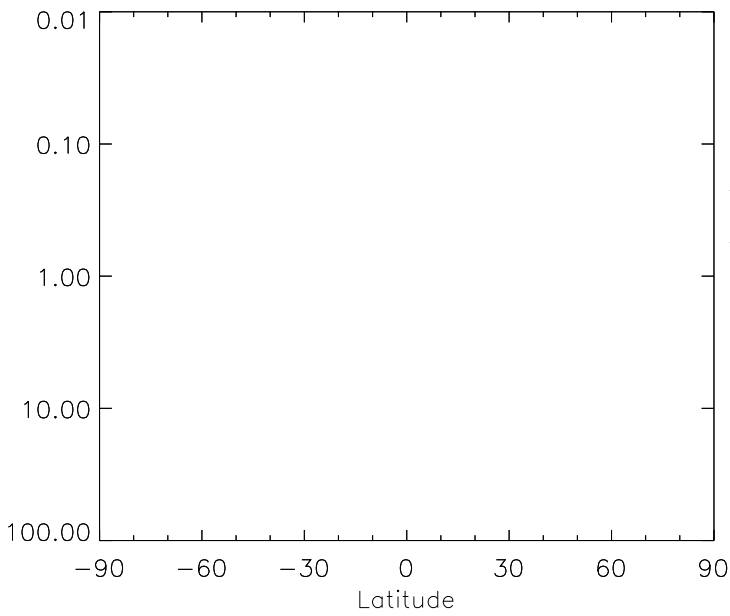
SALA - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

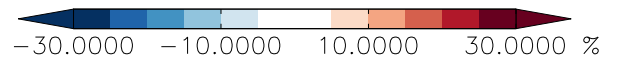
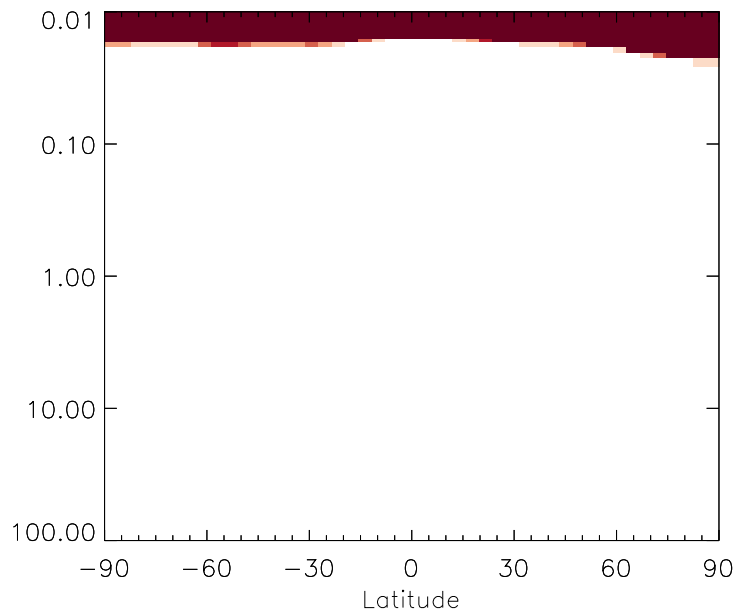
v11-01g-Run0 - v11-01f-geosfp-Run0

SALC - Strat zonal mean abs diff for Jul



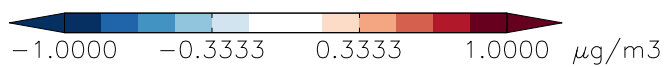
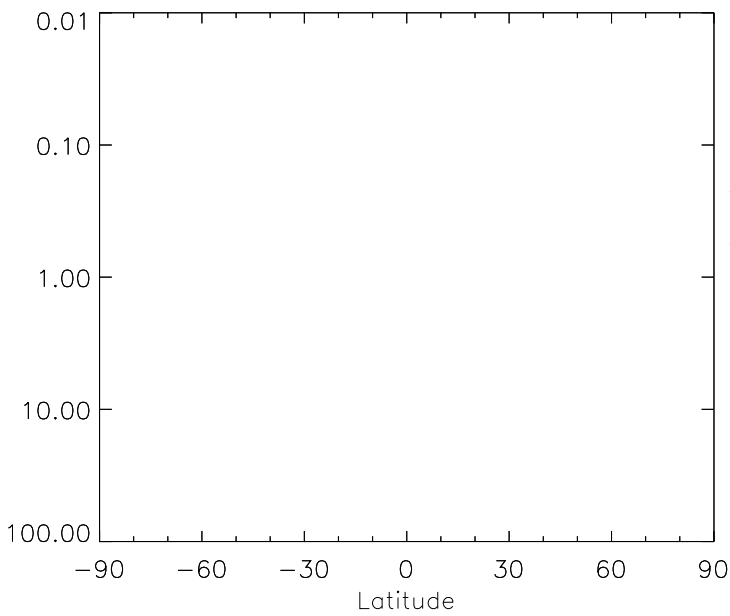
v11-01g-Run0 / v11-01f-geosfp-Run0

SALC - Strat zonal mean % diff for Jul



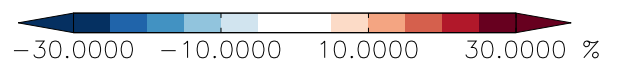
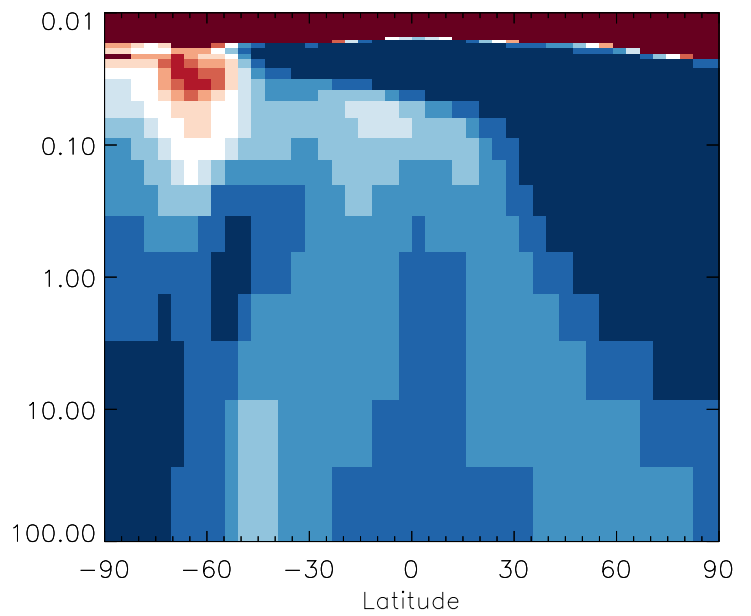
v11-01g-Run0 - v11-01d-Run1

SALC - Strat zonal mean abs diff for Jul



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

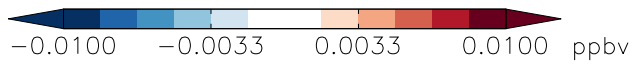
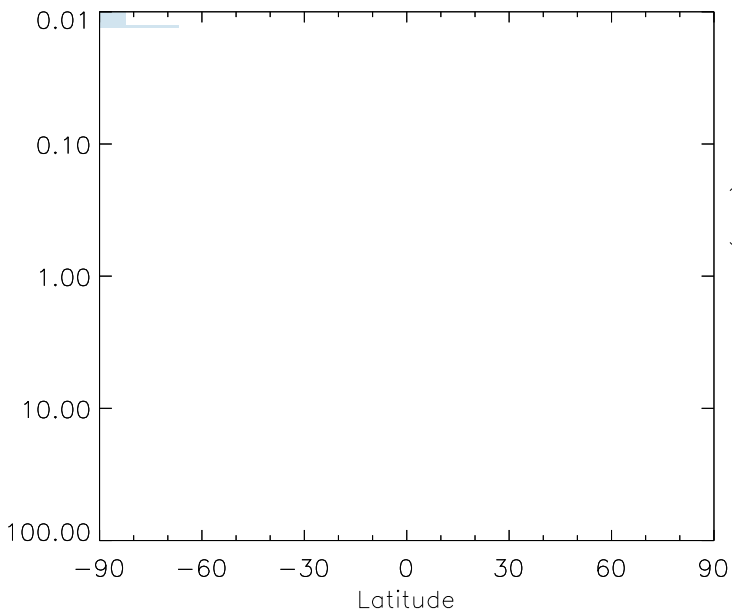
SALC - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

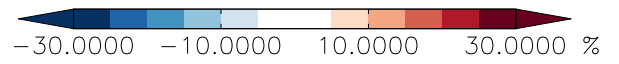
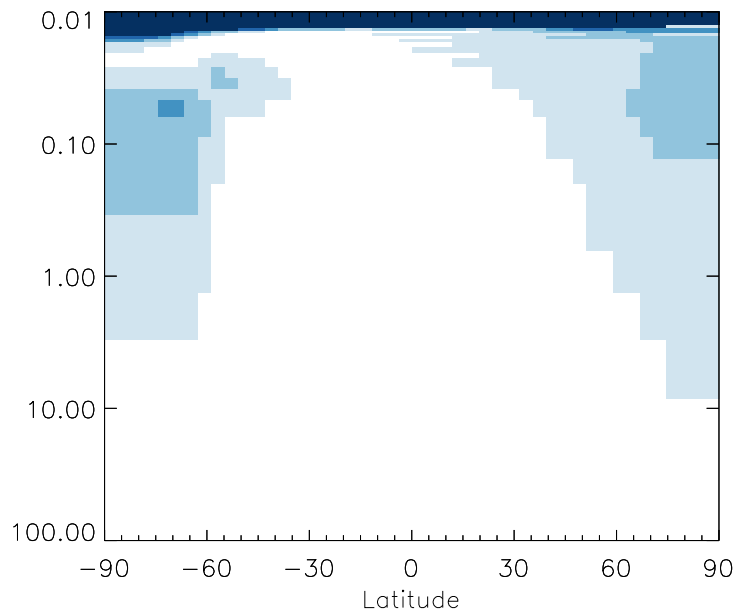
v11-01g-Run0 - v11-01f-geosfp-Run0

Br2 - Strat zonal mean abs diff for Jul



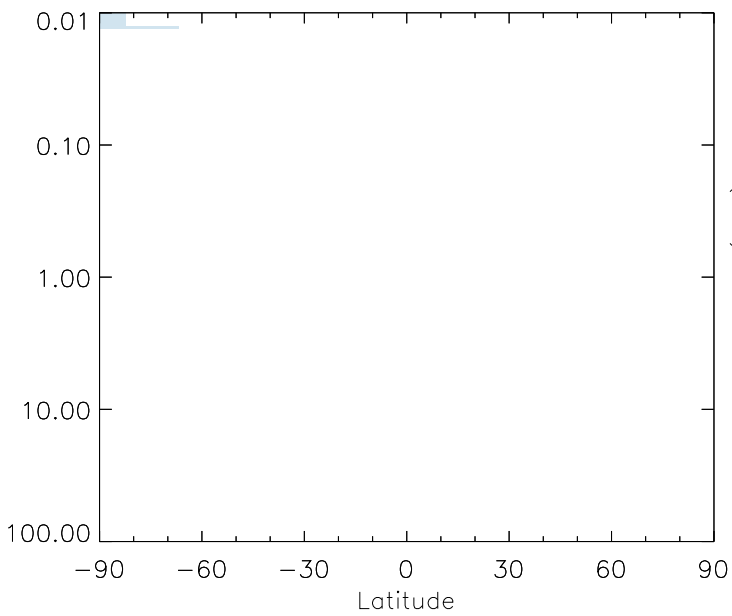
v11-01g-Run0 / v11-01f-geosfp-Run0

Br2 - Strat zonal mean % diff for Jul



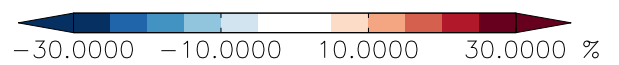
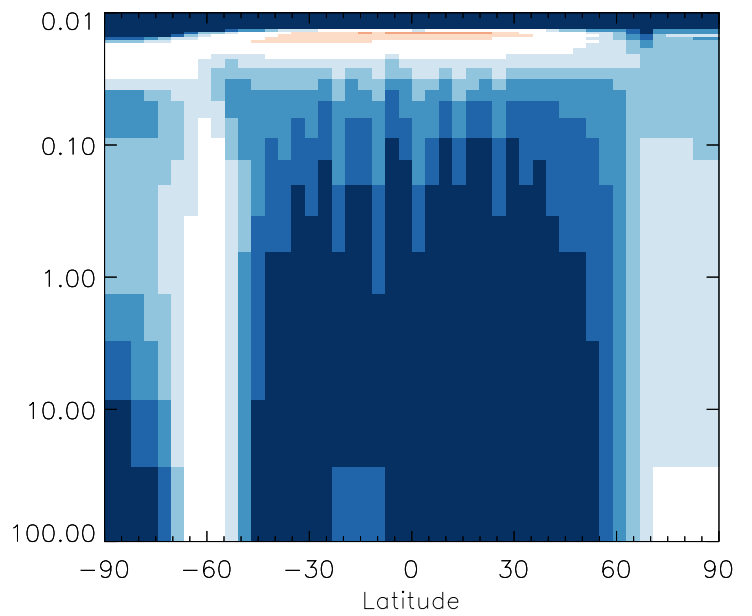
v11-01g-Run0 - v11-01d-Run1

Br2 - Strat zonal mean abs diff for Jul



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

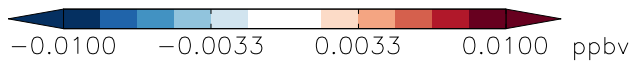
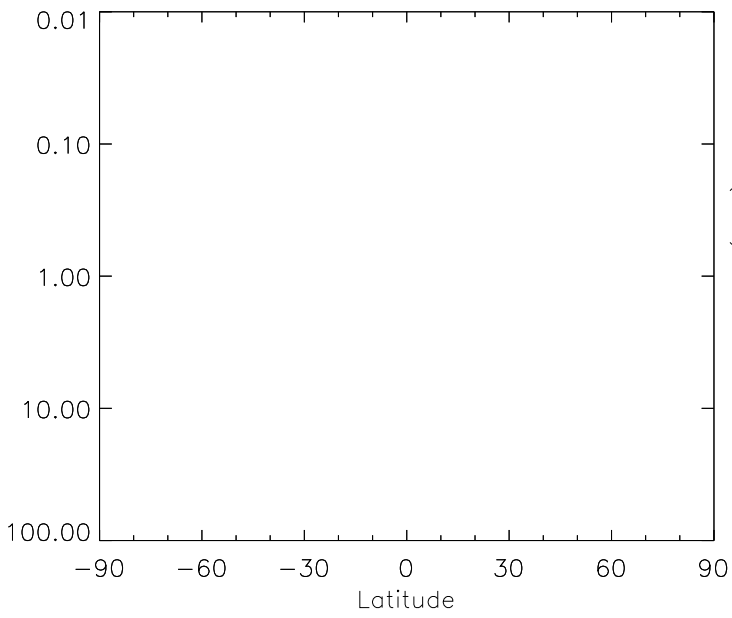
Br2 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

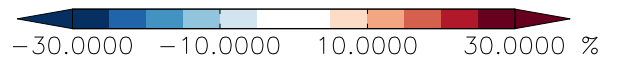
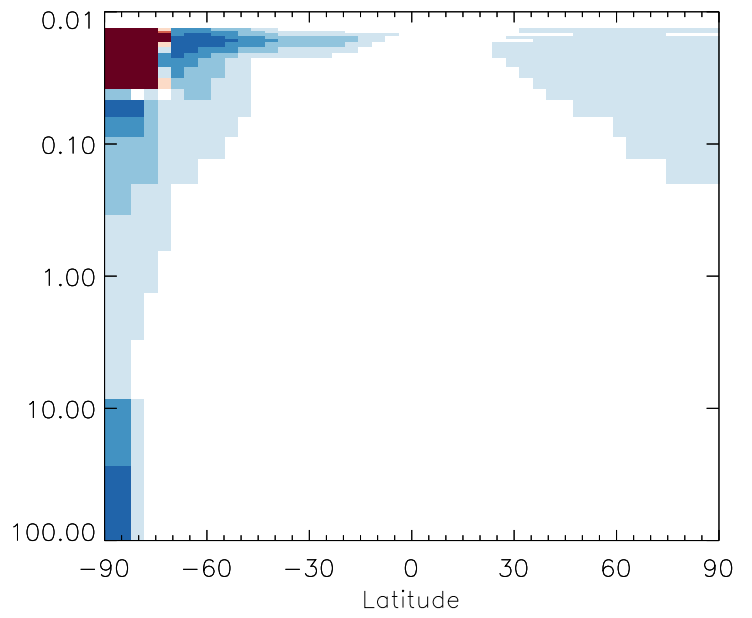
v11-01g-Run0 - v11-01f-geosfp-Run0

Br - Strat zonal mean abs diff for Jul



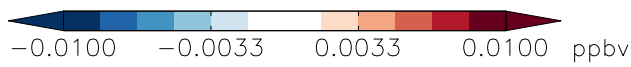
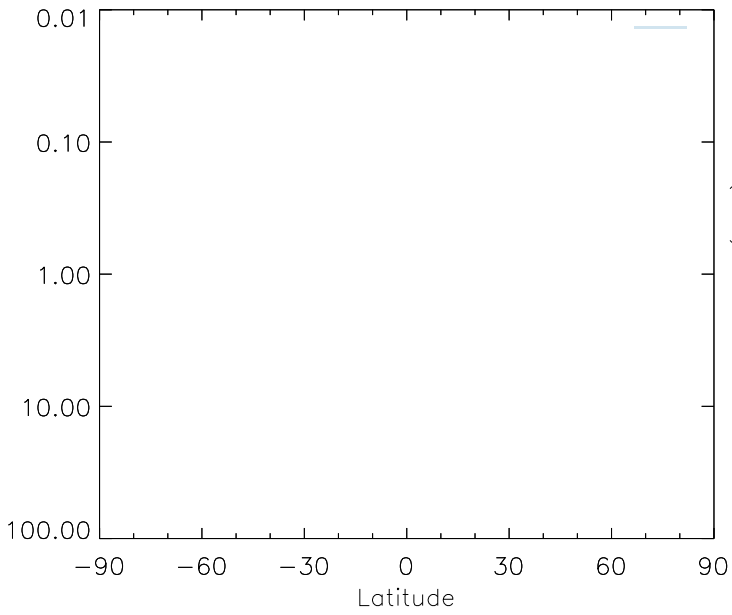
v11-01g-Run0 / v11-01f-geosfp-Run0

Br - Strat zonal mean % diff for Jul



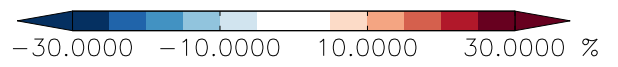
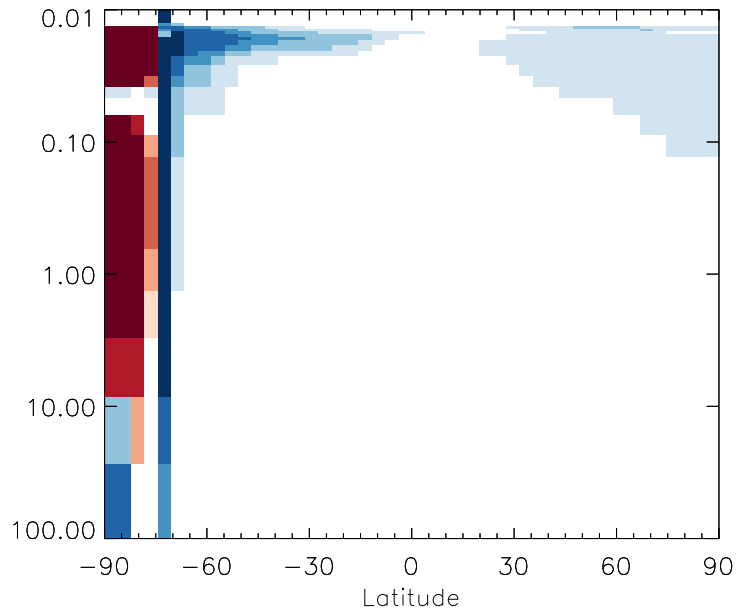
v11-01g-Run0 - v11-01d-Run1

Br - Strat zonal mean abs diff for Jul



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

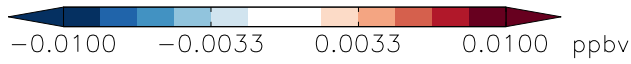
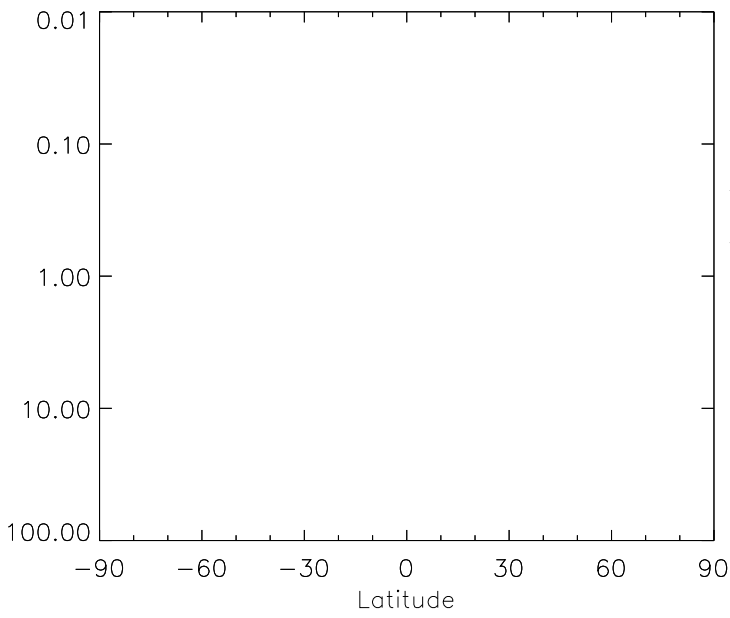
Br - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

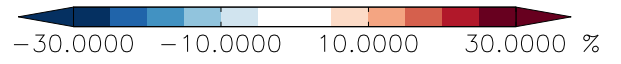
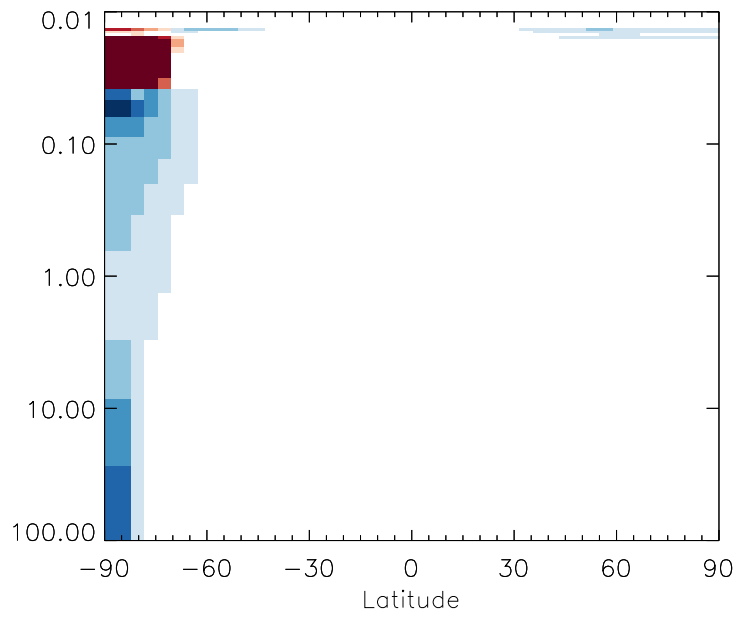
v11-01g-Run0 - v11-01f-geosp-Run0

BrO - Strat zonal mean abs diff for Jul



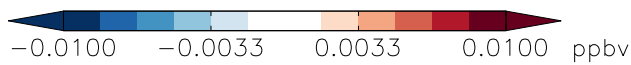
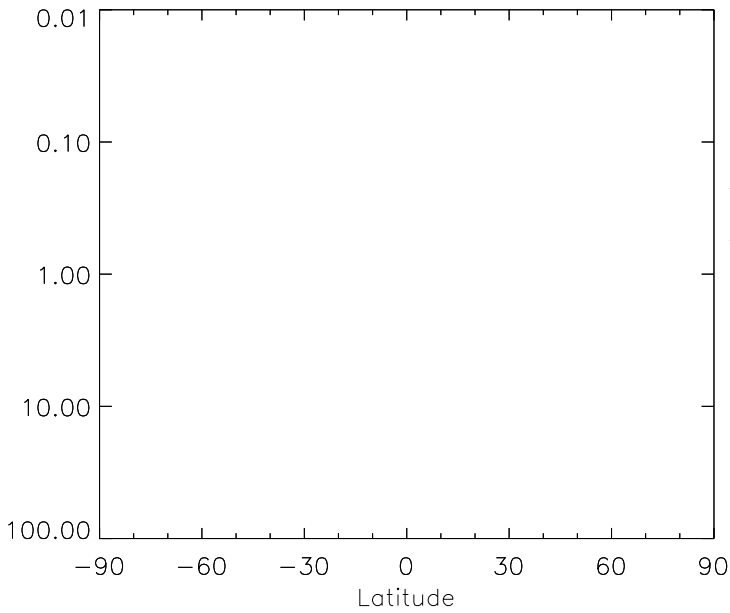
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BrO - Strat zonal mean % diff for Jul



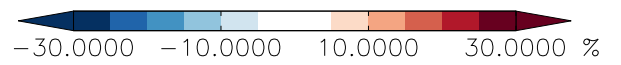
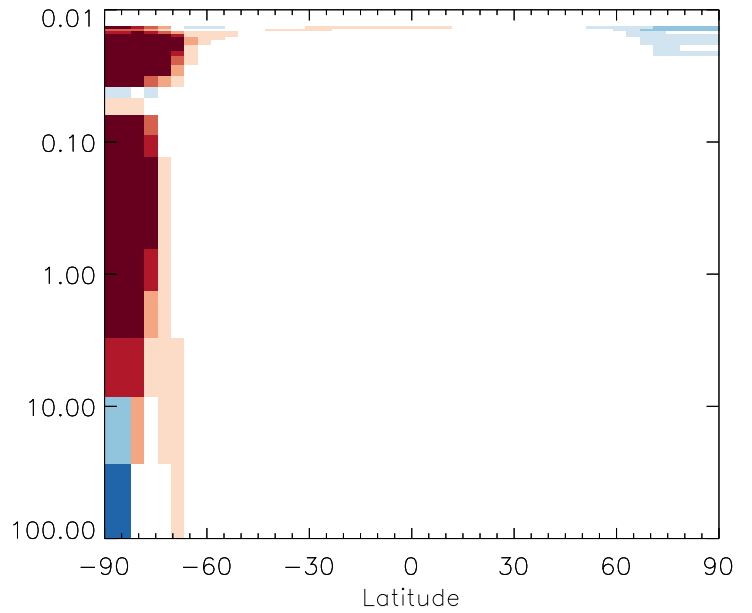
v11-01g-Run0 - v11-01d-Run1

BrO - Strat zonal mean abs diff for Jul



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

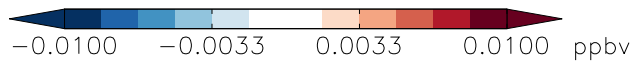
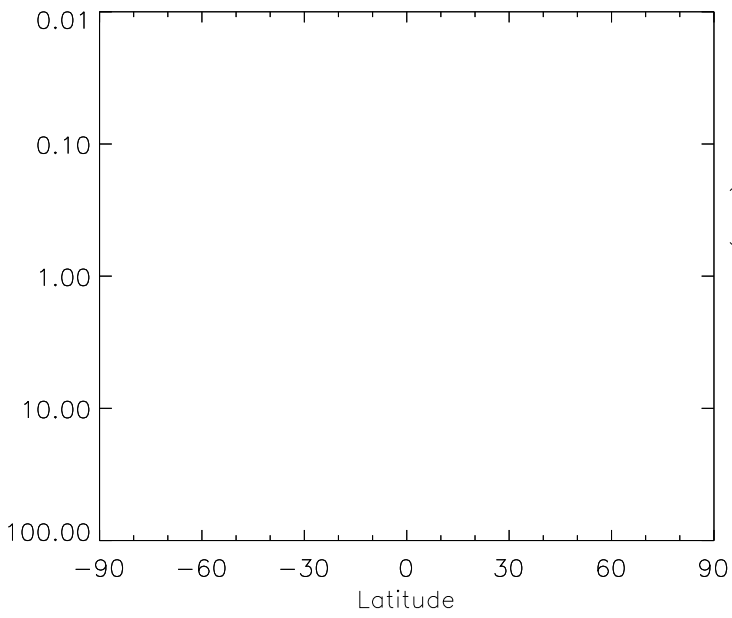
BrO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

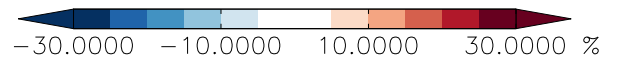
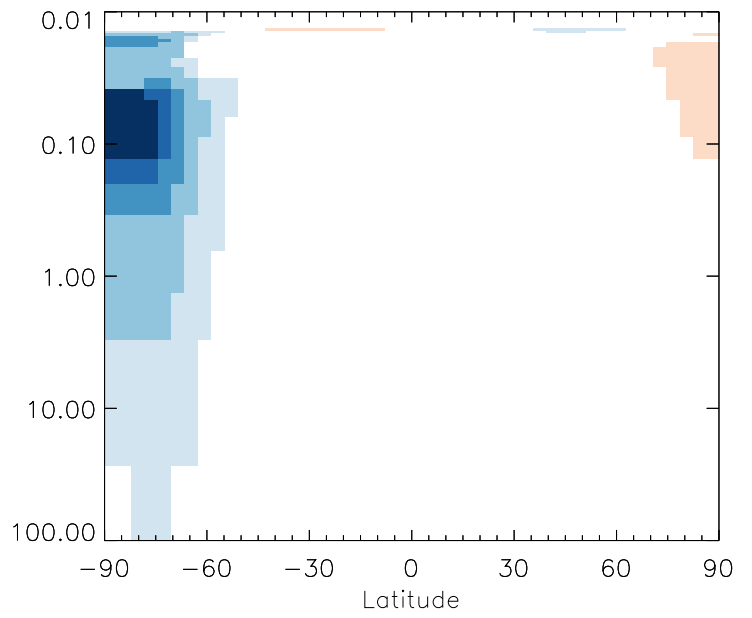
v11-01g-Run0 - v11-01f-geosfp-Run0

HOBr - Strat zonal mean abs diff for Jul



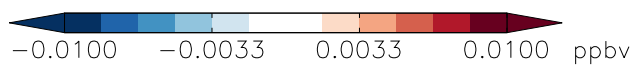
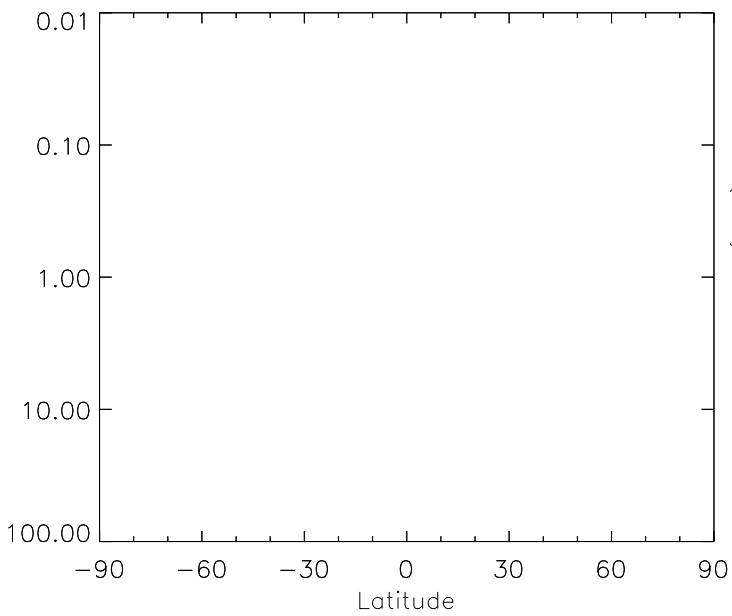
v11-01g-Run0 / v11-01f-geosfp-Run0

HOBr - Strat zonal mean % diff for Jul



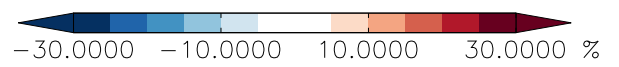
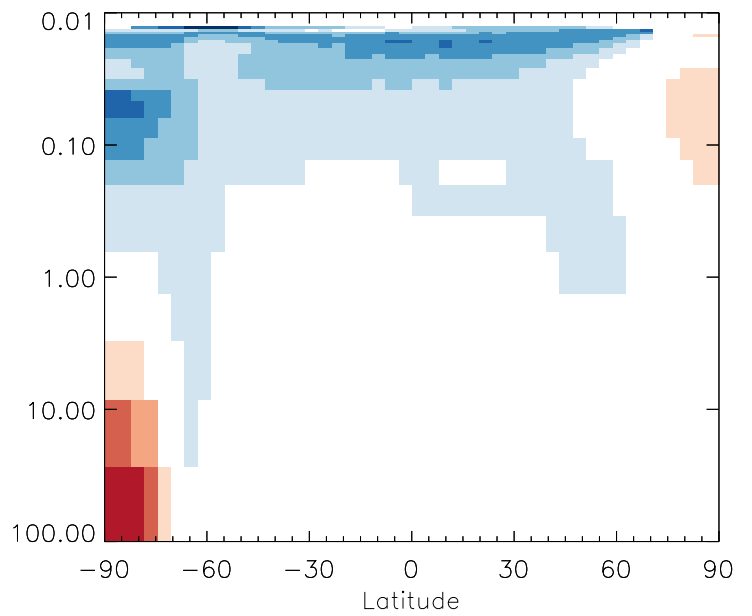
v11-01g-Run0 - v11-01d-Run1

HOBr - Strat zonal mean abs diff for Jul



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

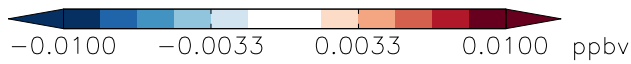
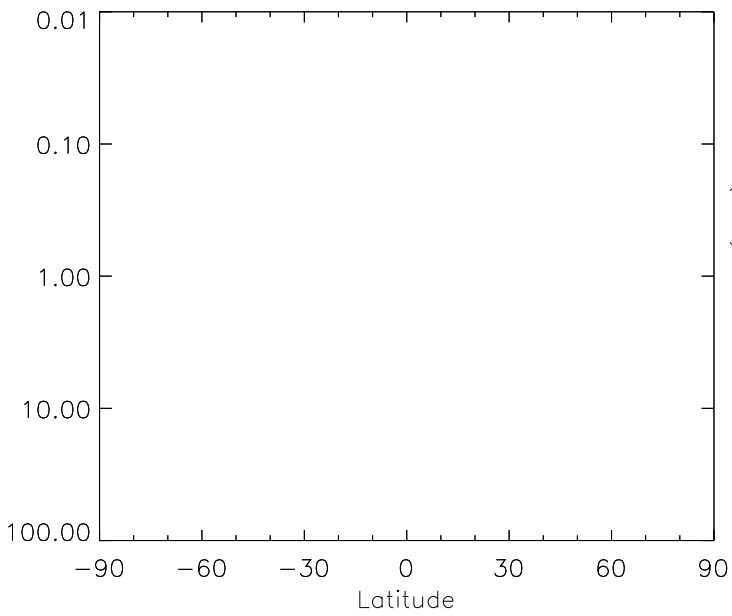
HOBr - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

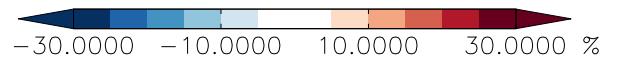
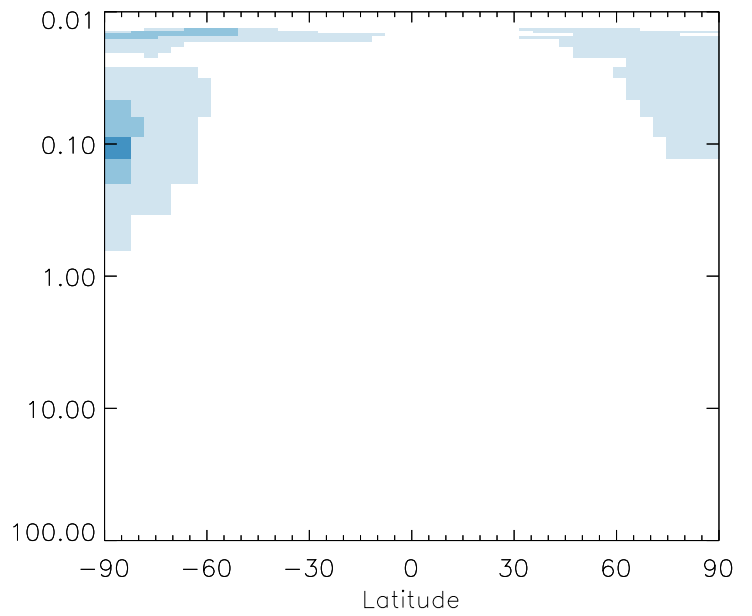
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HBr - Strat zonal mean abs diff for Jul



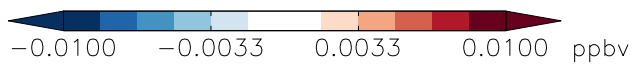
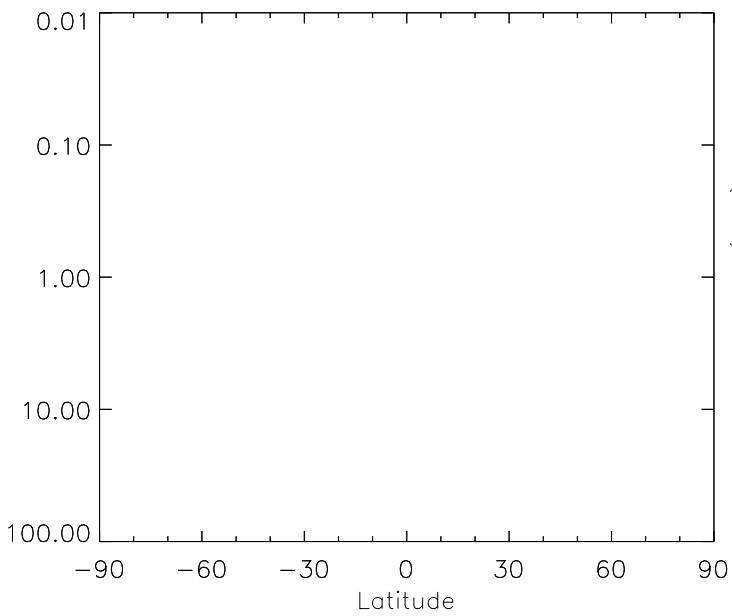
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HBr - Strat zonal mean % diff for Jul



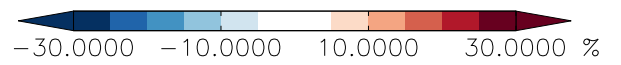
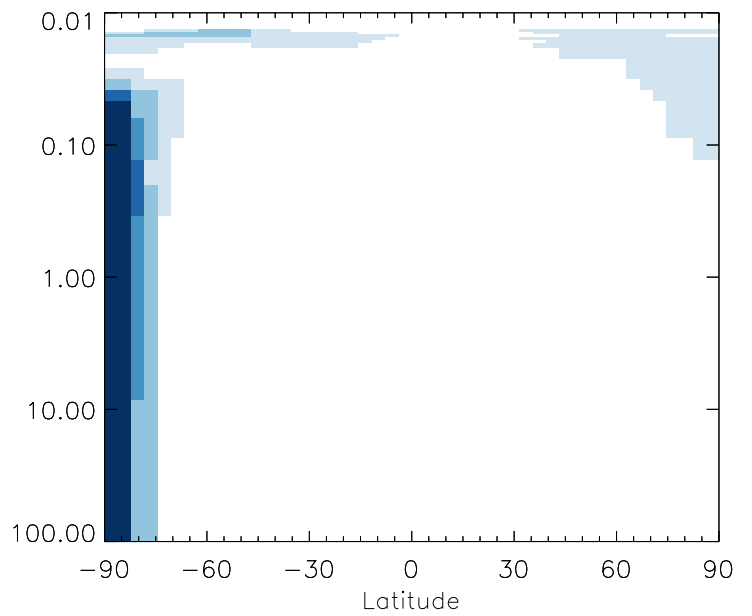
v11-01g-Run0 - v11-01d-Run1

HBr - Strat zonal mean abs diff for Jul



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

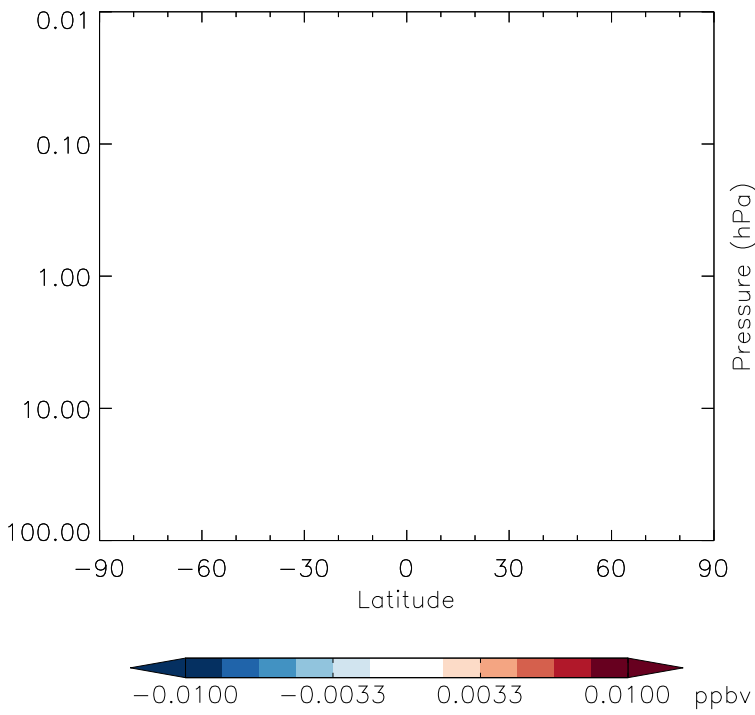
HBr - Strat zonal mean % diff for Jul



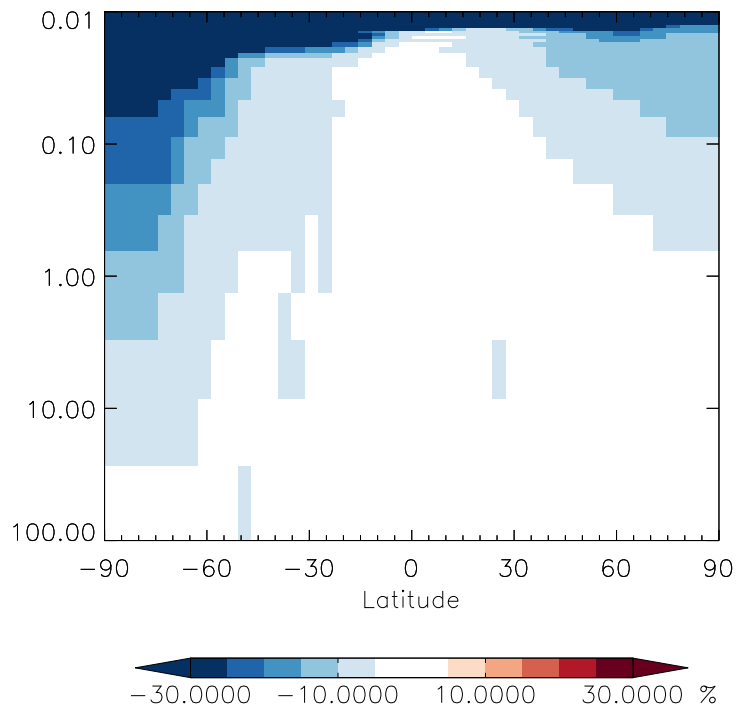


GEOS-Chem Stratospheric Zonal Difference Maps

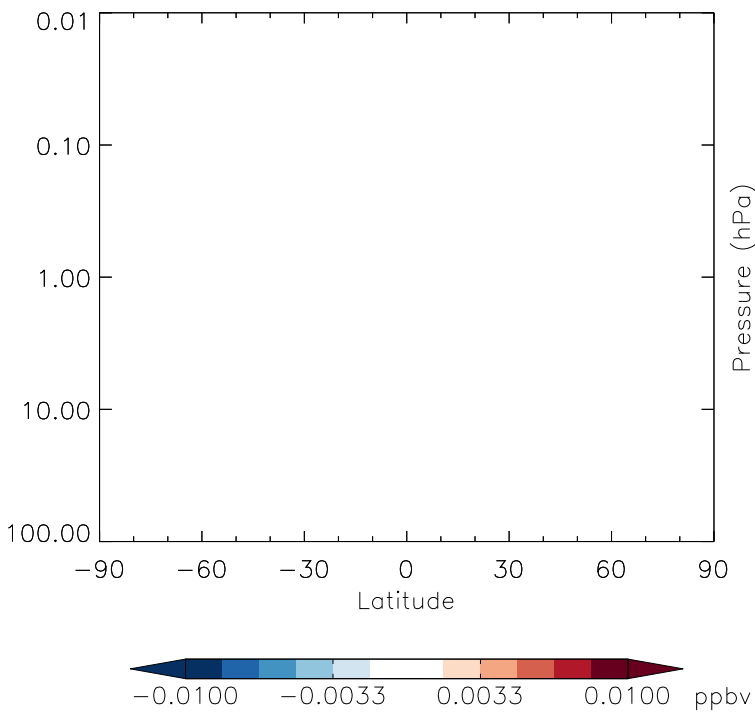
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BrNO2 - Strat zonal mean abs diff for Jul



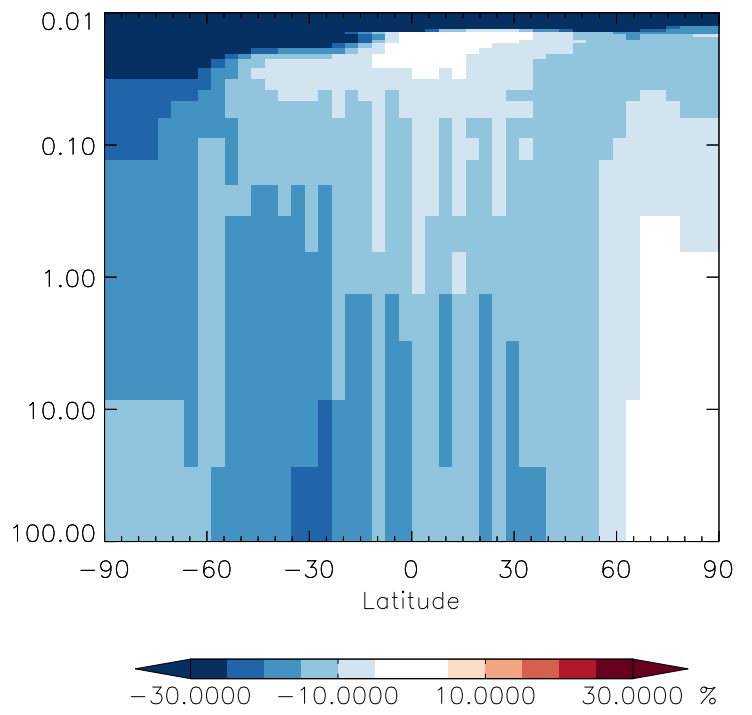
v11-01g-Run0 / v11-01f-geosfp-Run0  
BrNO2 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
BrNO2 - Strat zonal mean abs diff for Jul

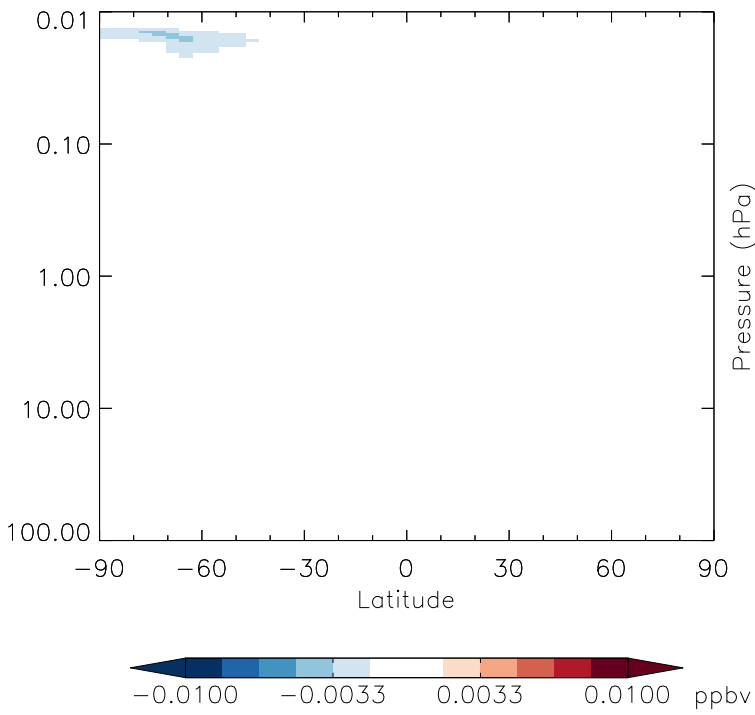


v11-01g-Run0 / v11-01d-Run1  
BrNO2 - Strat zonal mean % diff for Jul

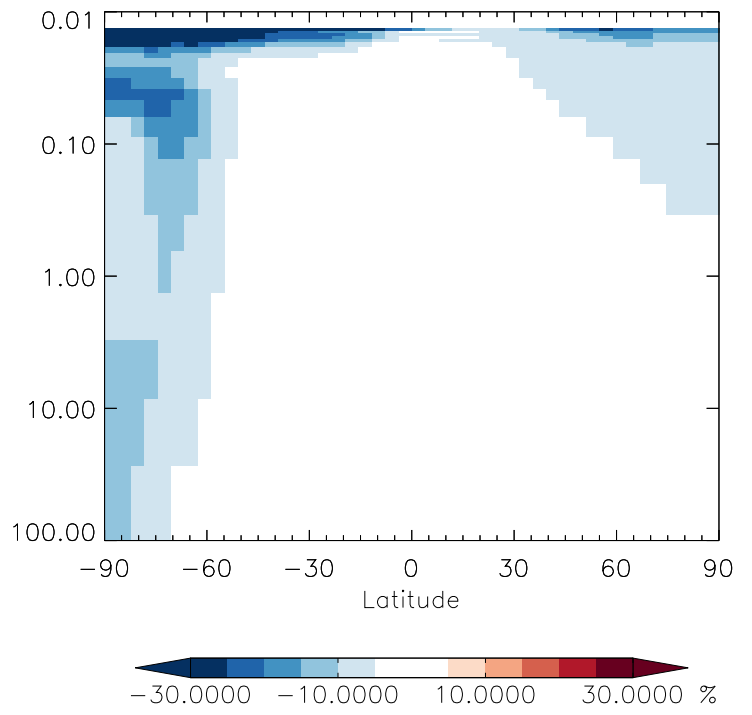


GEOS-Chem Stratospheric Zonal Difference Maps

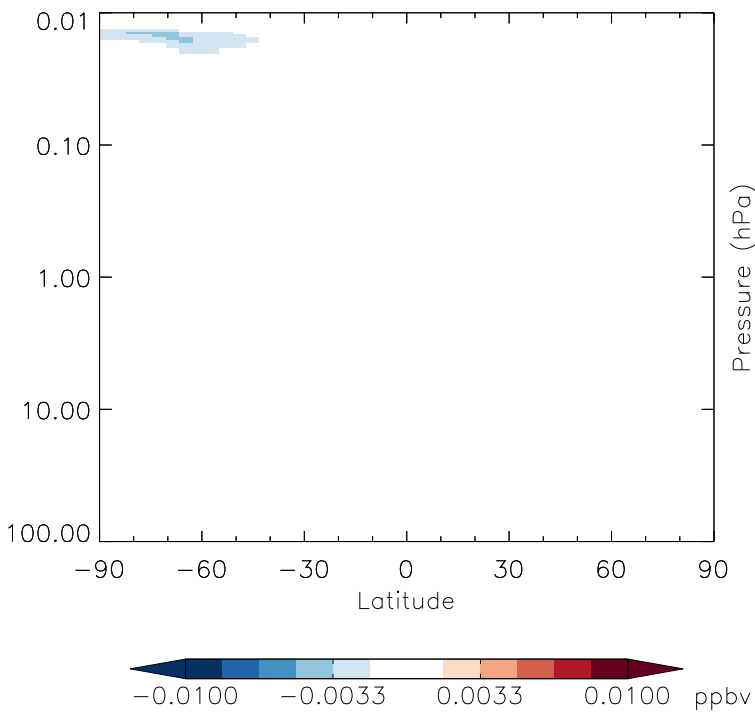
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BrNO3 - Strat zonal mean abs diff for Jul



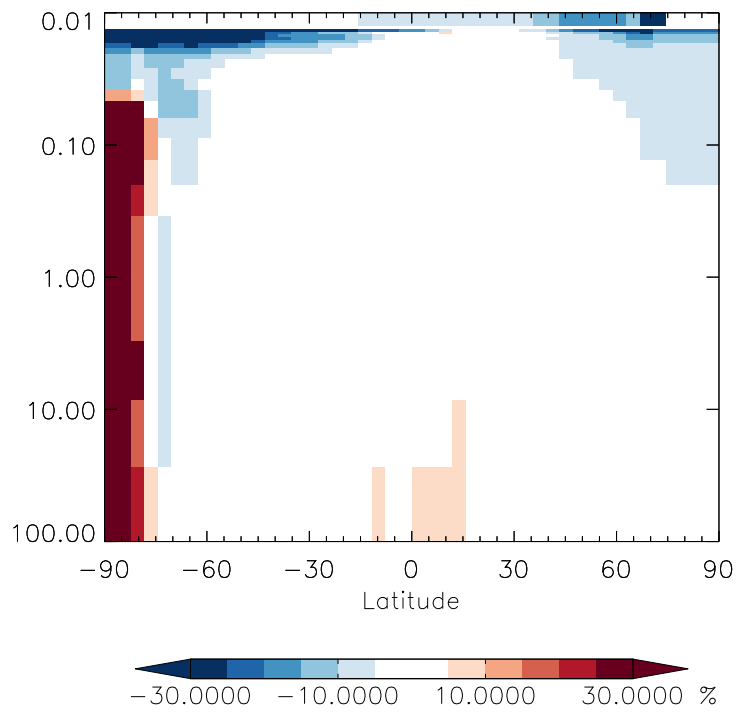
v11-01g-Run0 / v11-01f-geosfp-Run0  
BrNO3 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
BrNO3 - Strat zonal mean abs diff for Jul

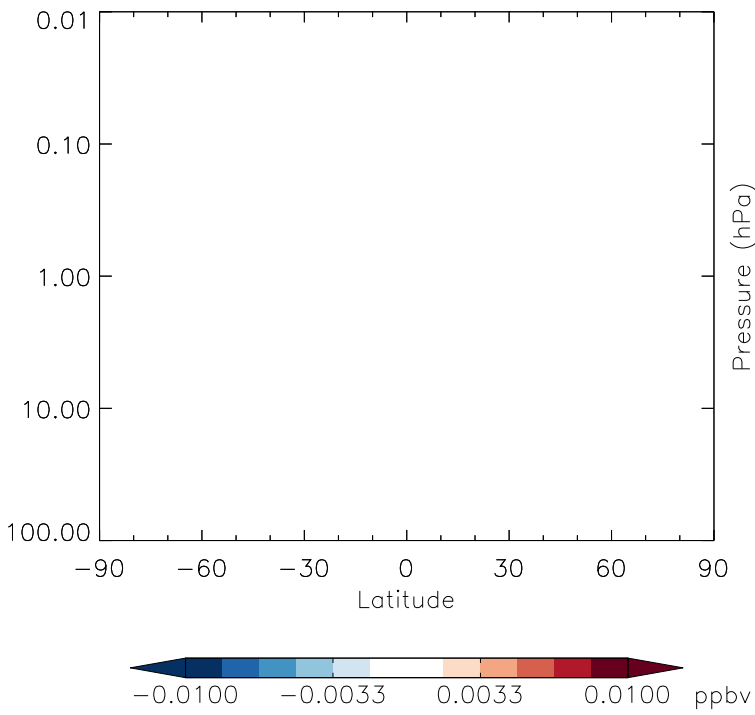


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BrNO3 - Strat zonal mean % diff for Jul

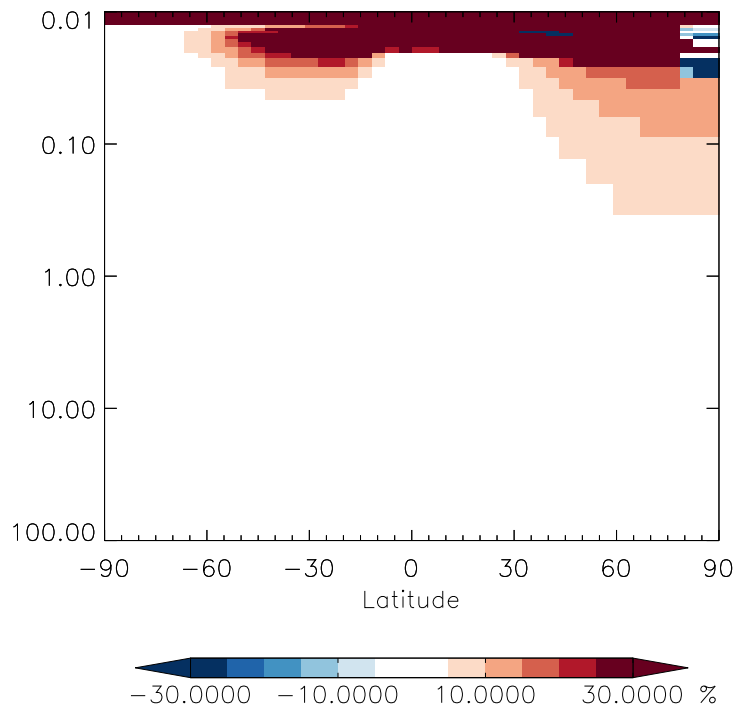


GEOS-Chem Stratospheric Zonal Difference Maps

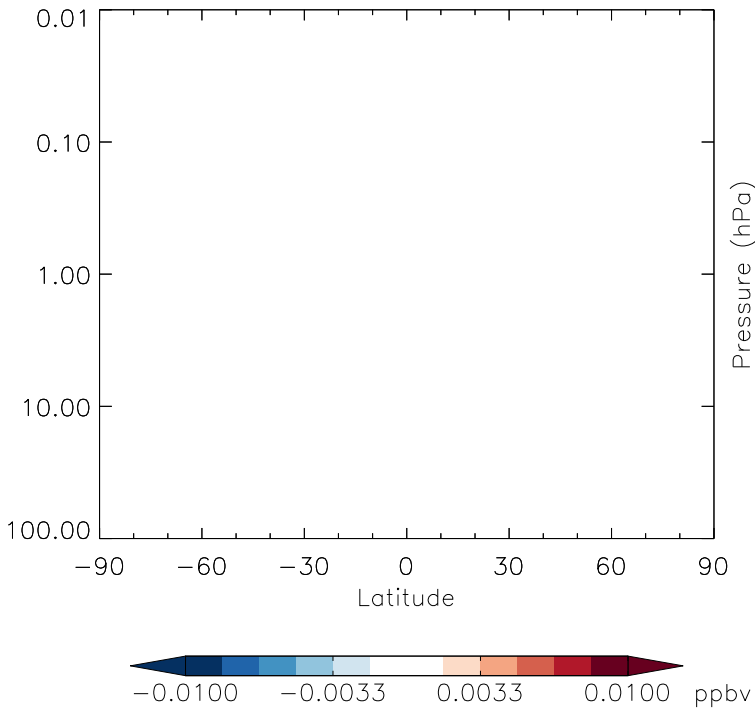
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CHBr3 - Strat zonal mean abs diff for Jul



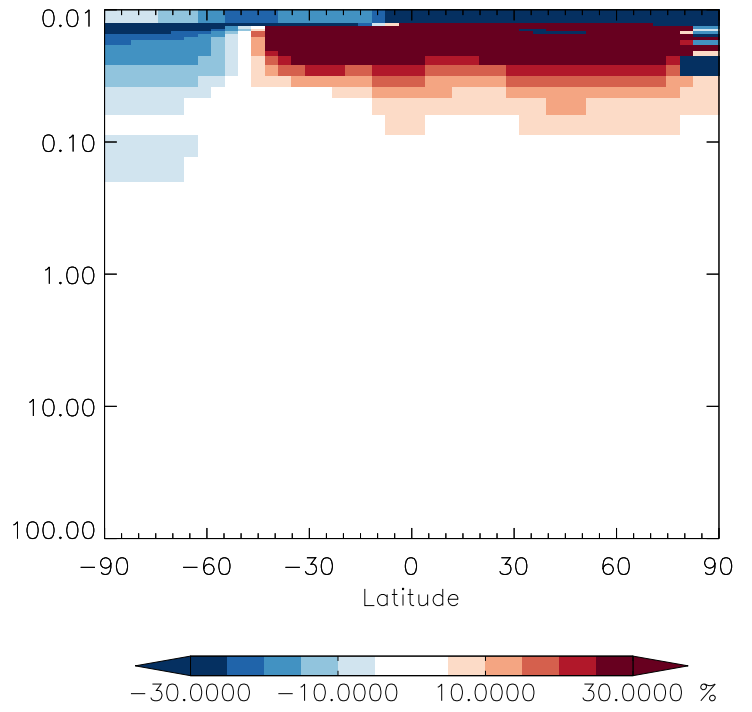
v11-01g-Run0 / v11-01f-geosfp-Run0  
CHBr3 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CHBr3 - Strat zonal mean abs diff for Jul

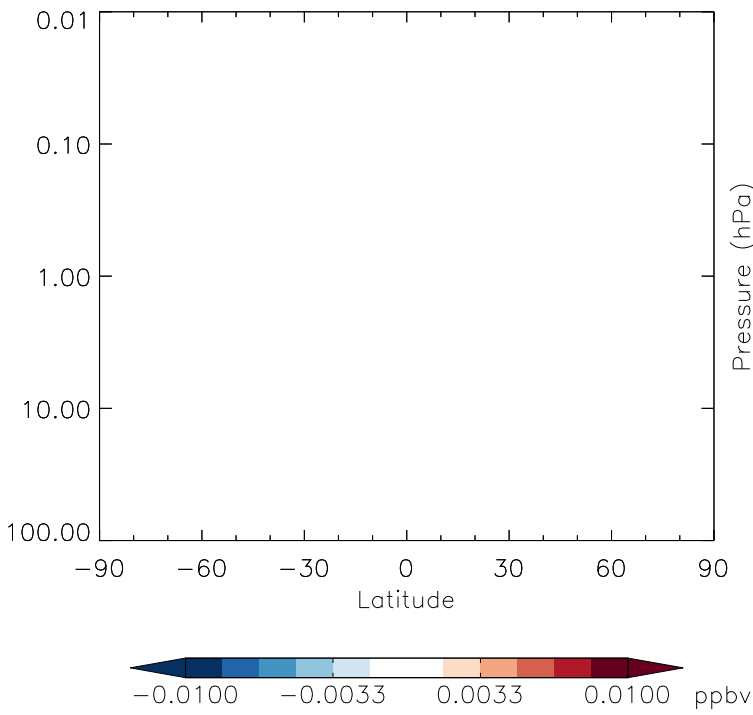


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CHBr3 - Strat zonal mean % diff for Jul

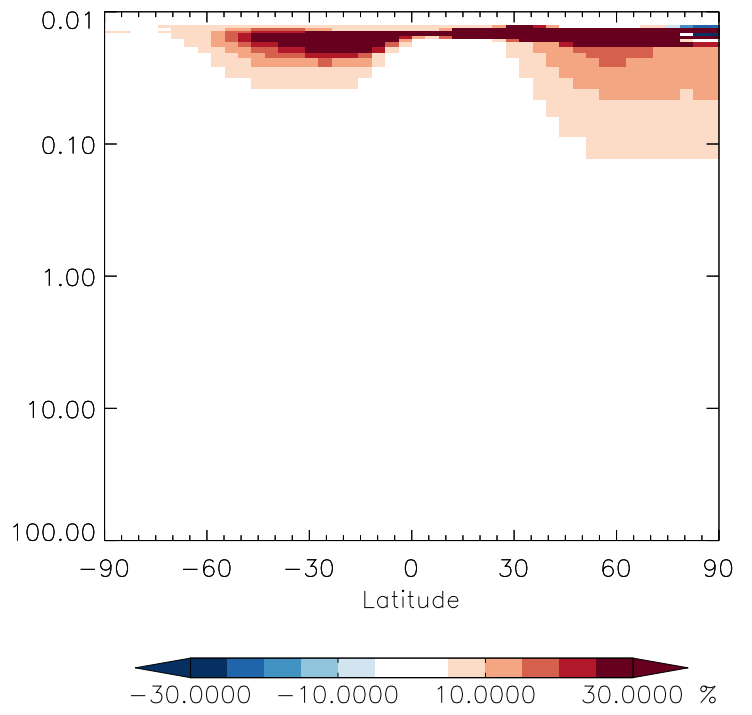


GEOS-Chem Stratospheric Zonal Difference Maps

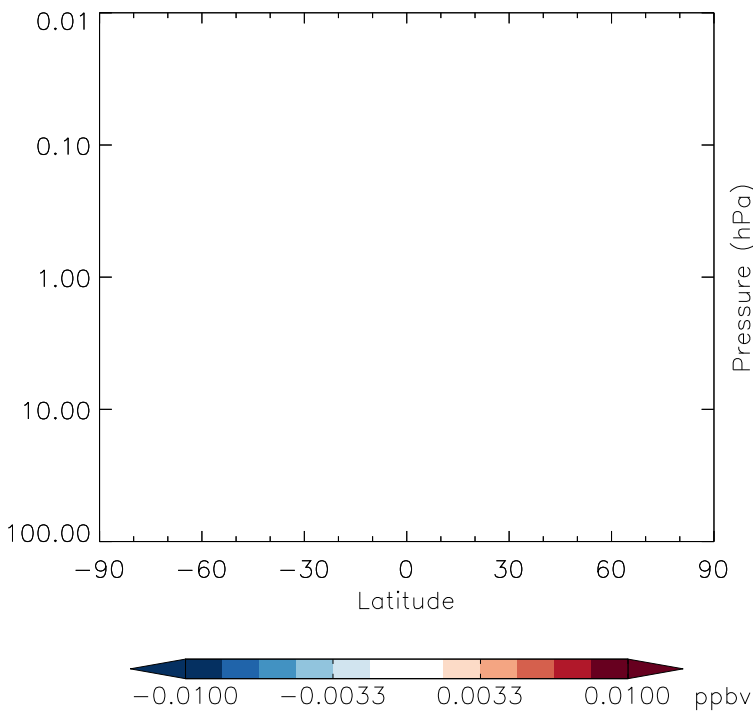
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CH<sub>2</sub>Br<sub>2</sub> - Strat zonal mean abs diff for Jul



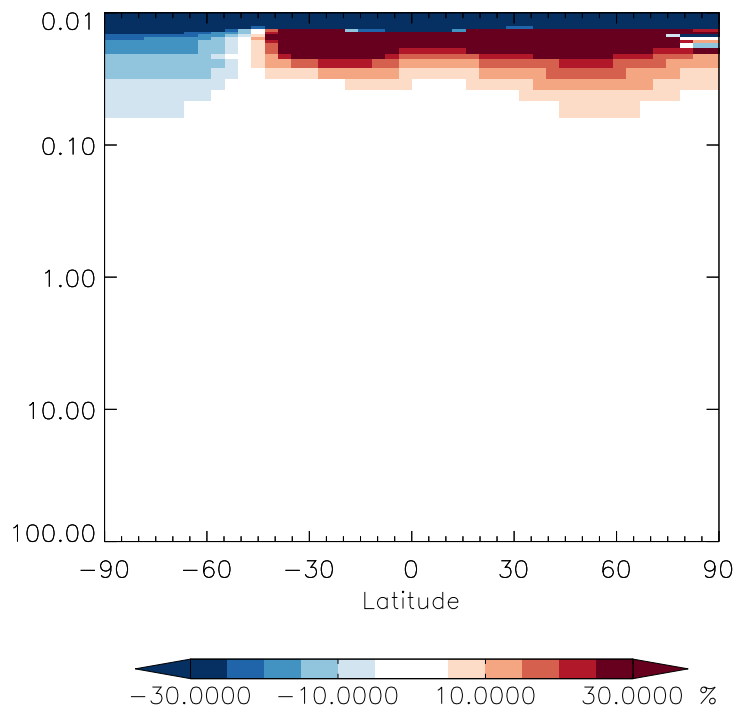
v11-01g-Run0 / v11-01f-geosfp-Run0  
CH<sub>2</sub>Br<sub>2</sub> - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CH<sub>2</sub>Br<sub>2</sub> - Strat zonal mean abs diff for Jul

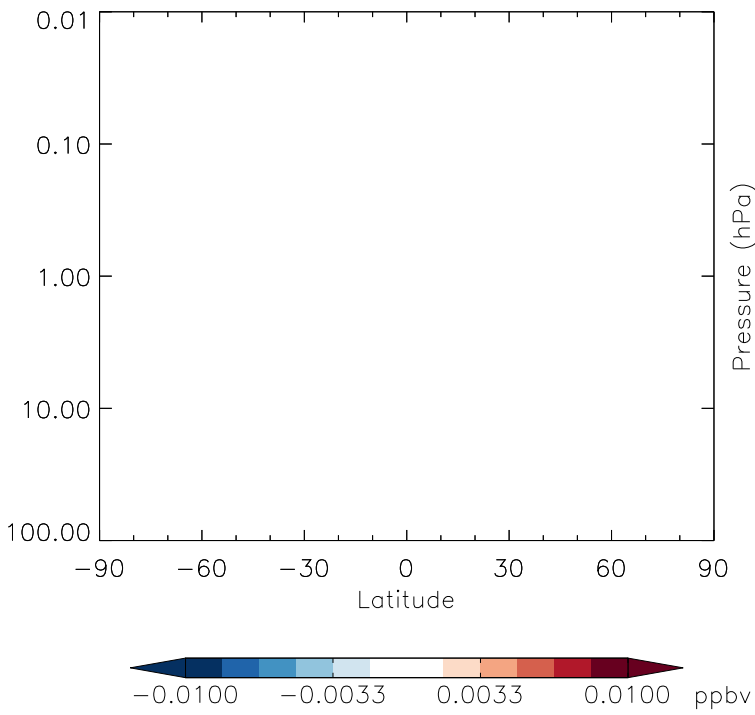


v11-01g-Run0 / v11-01d-Run1  
CH<sub>2</sub>Br<sub>2</sub> - Strat zonal mean % diff for Jul

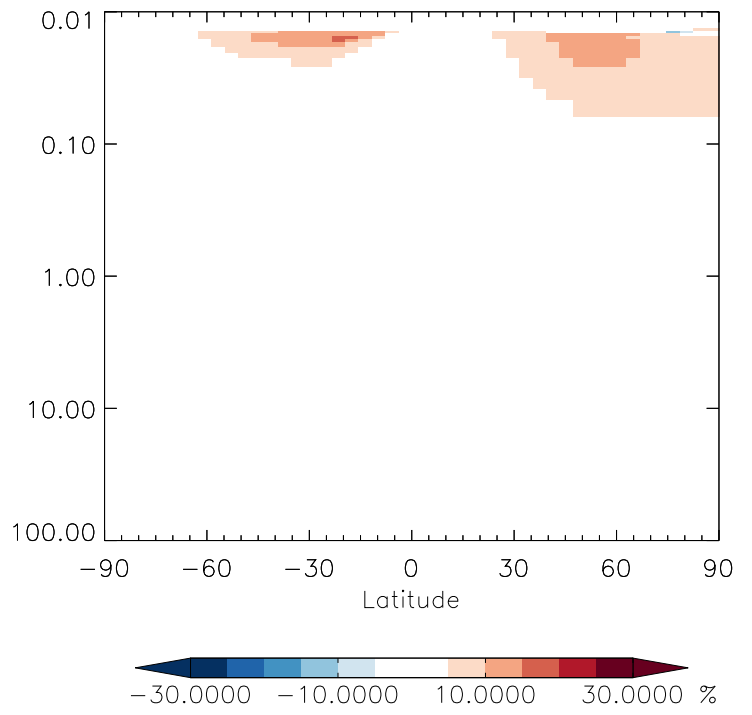


GEOS-Chem Stratospheric Zonal Difference Maps

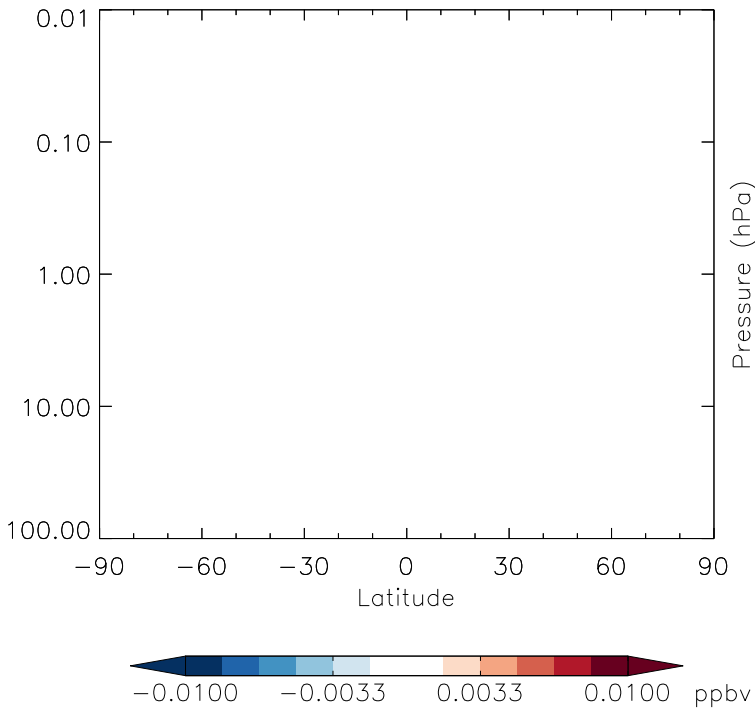
v11-01g-Run0 - v11-01f-geosfp-Run0  
CH3Br - Strat zonal mean abs diff for Jul



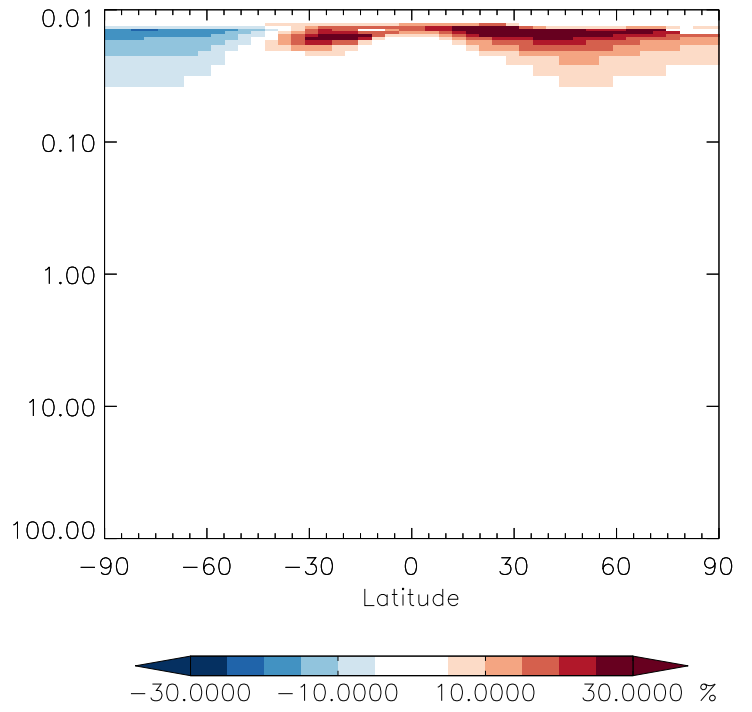
v11-01g-Run0 / v11-01f-geosfp-Run0  
CH3Br - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CH3Br - Strat zonal mean abs diff for Jul



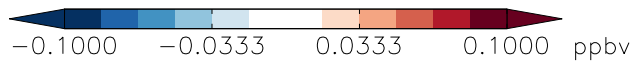
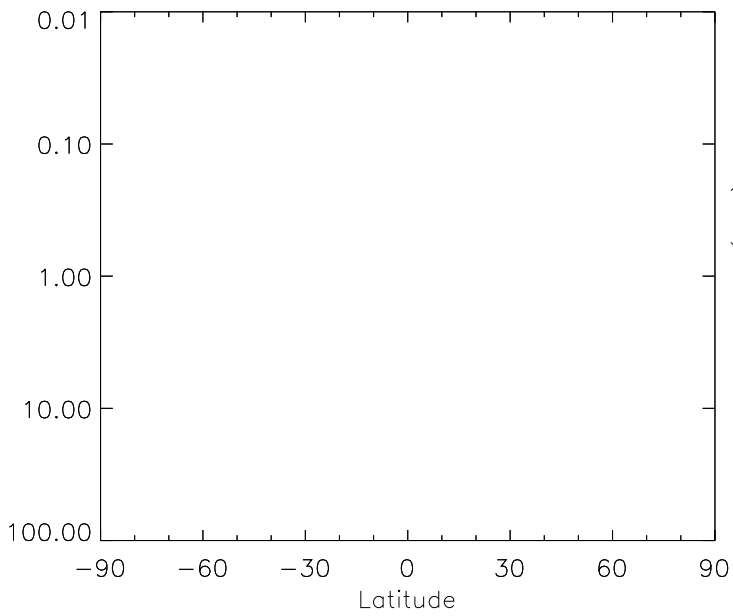
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CH3Br - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

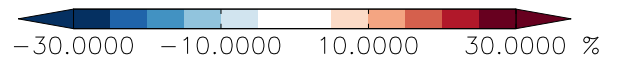
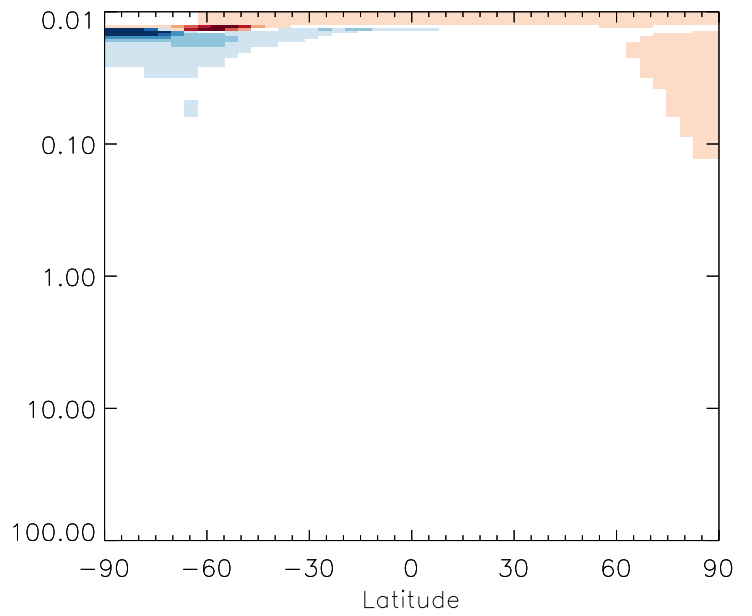
v11-01g-Run0 - v11-01f-geosfp-Run0

MPN - Strat zonal mean abs diff for Jul



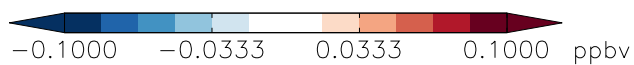
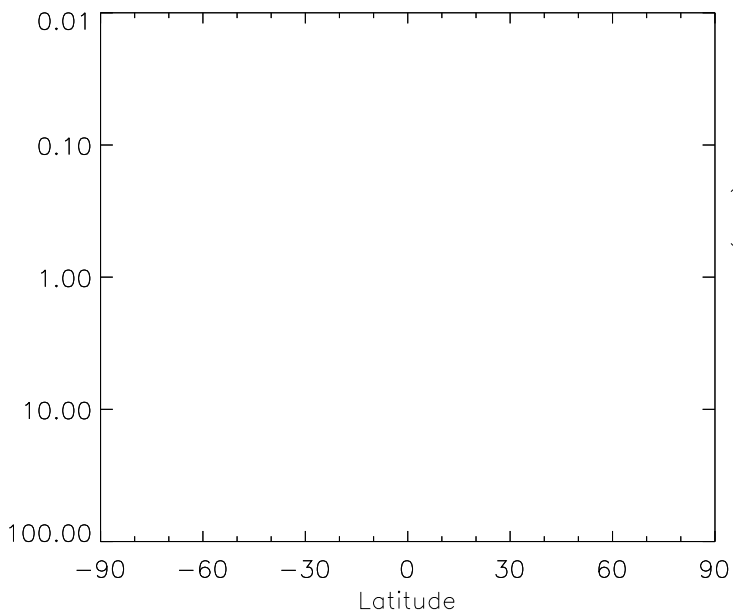
v11-01g-Run0 / v11-01f-geosfp-Run0

MPN - Strat zonal mean % diff for Jul



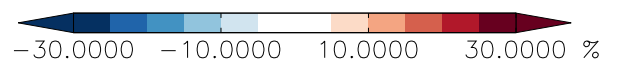
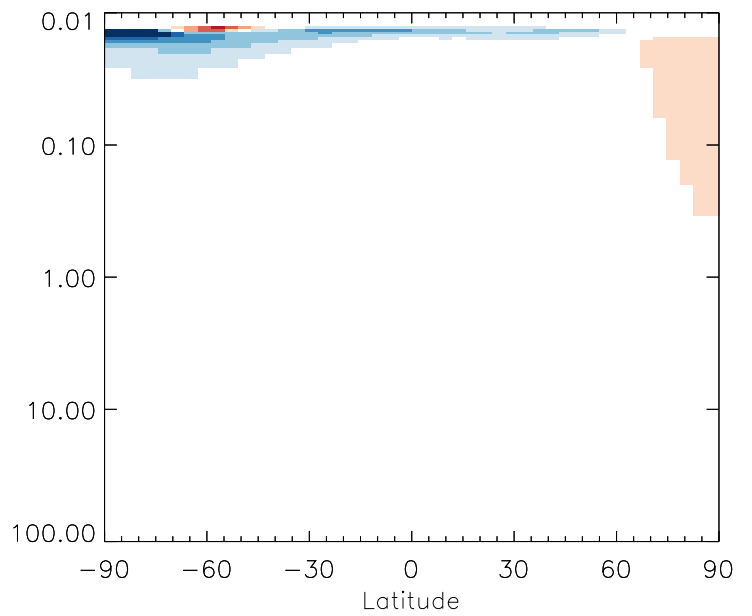
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MPN - Strat zonal mean abs diff for Jul



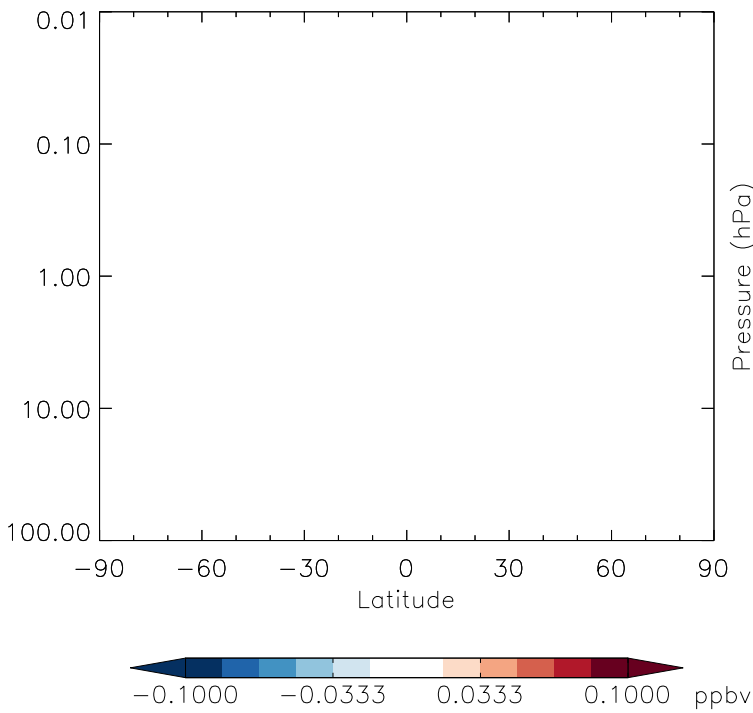
v11-01g-Run0 / v11-01d-Run1

MPN - Strat zonal mean % diff for Jul

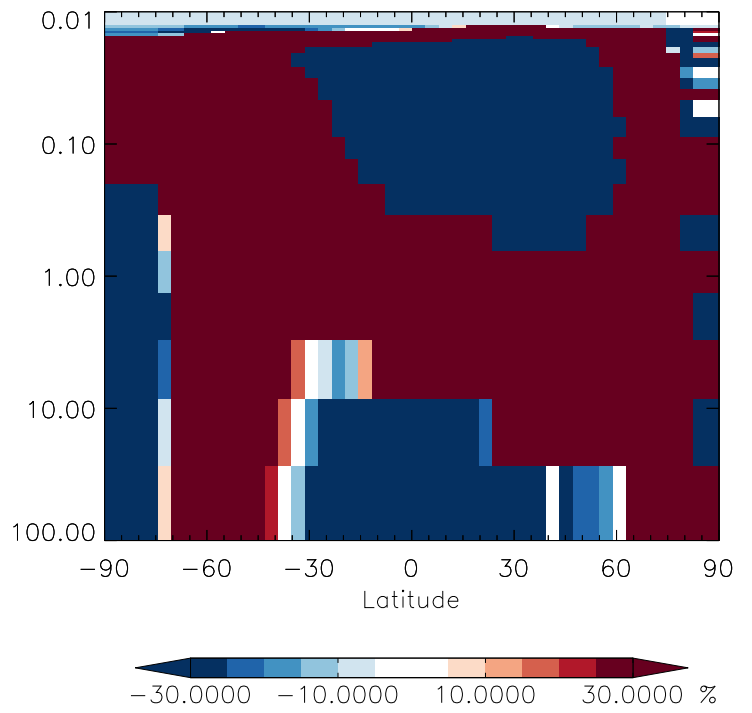


GEOS-Chem Stratospheric Zonal Difference Maps

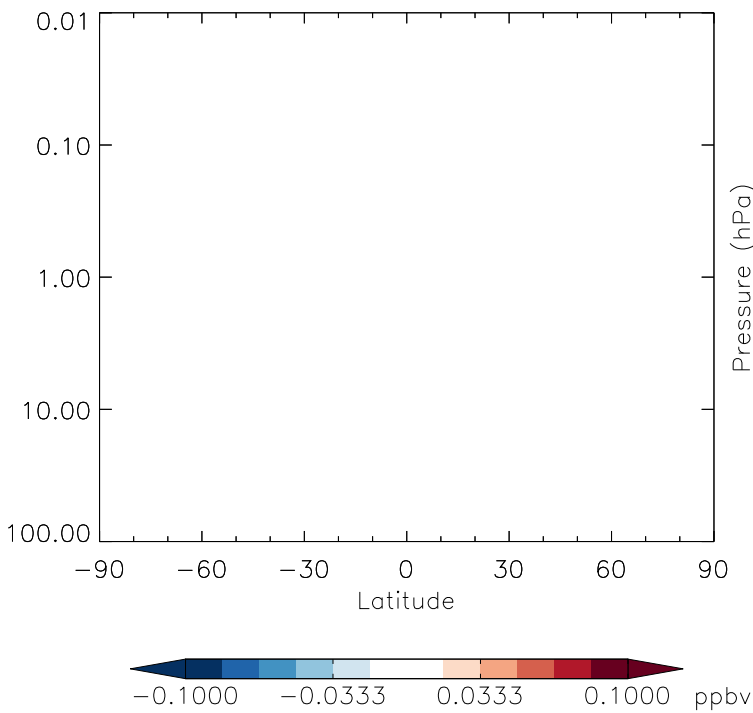
v11-01g-Run0 - v11-01f-geosfp-Run0  
ISOPND - Strat zonal mean abs diff for Jul



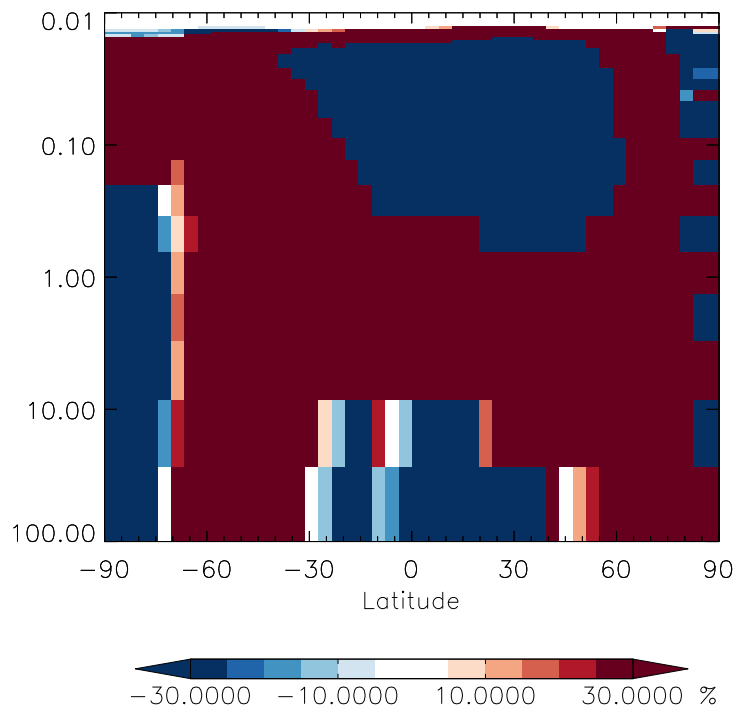
v11-01g-Run0 / v11-01f-geosfp-Run0  
ISOPND - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
ISOPND - Strat zonal mean abs diff for Jul



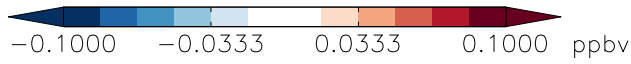
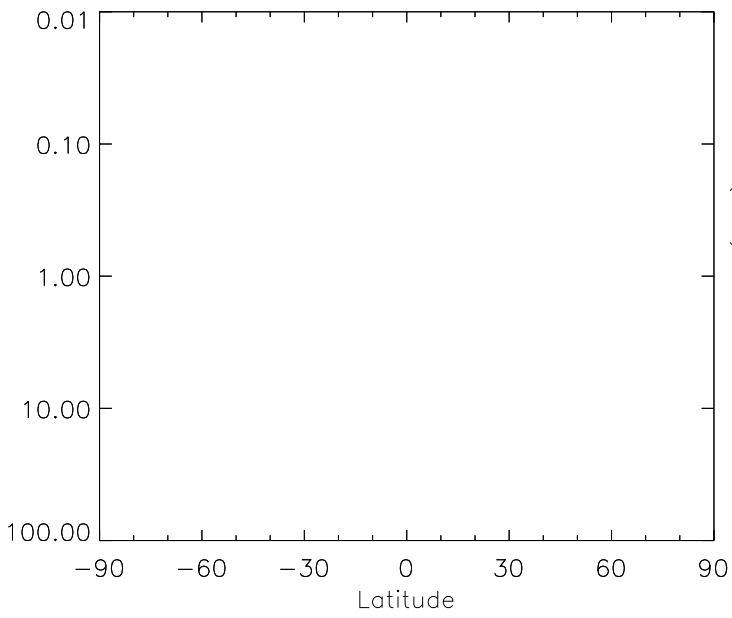
v11-01g-Run0 / v11-01d-Run1  
ISOPND - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

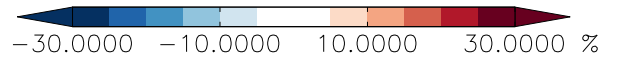
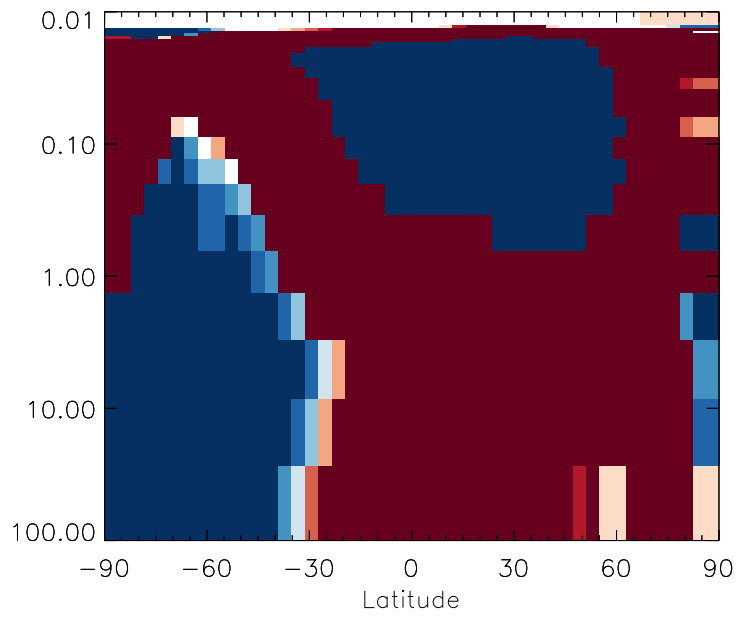
v11-01g-Run0 - v11-01f-geosfp-Run0

ISOPNB - Strat zonal mean abs diff for Jul



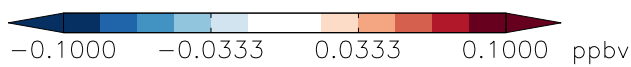
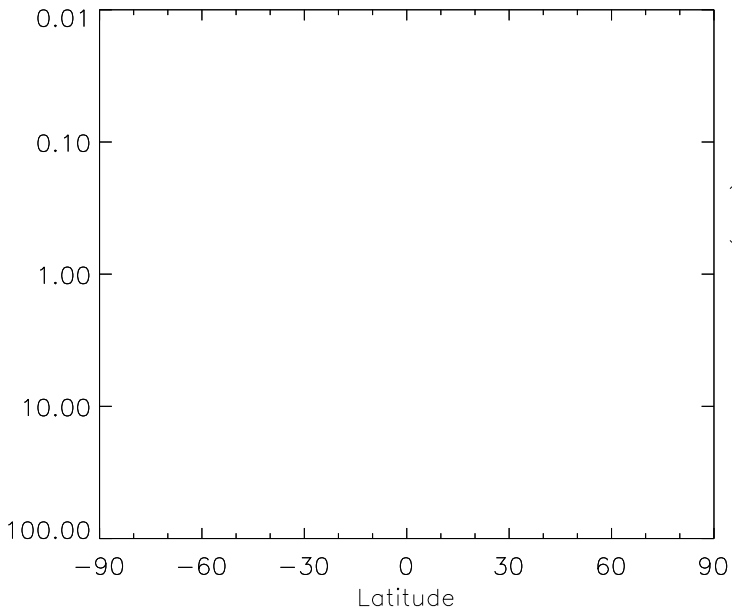
v11-01g-Run0 / v11-01f-geosfp-Run0

ISOPNB - Strat zonal mean % diff for Jul



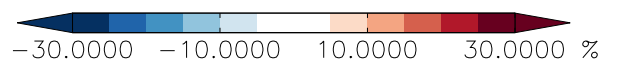
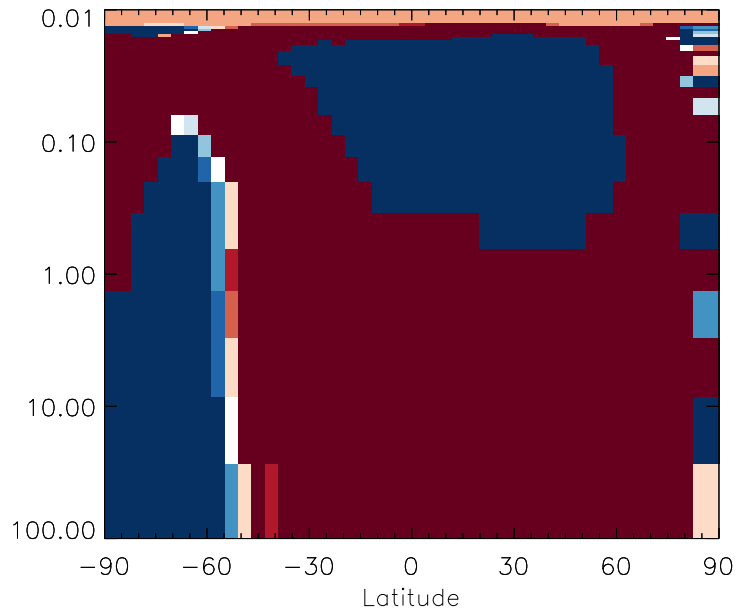
v11-01g-Run0 - v11-01d-Run1

ISOPNB - Strat zonal mean abs diff for Jul



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

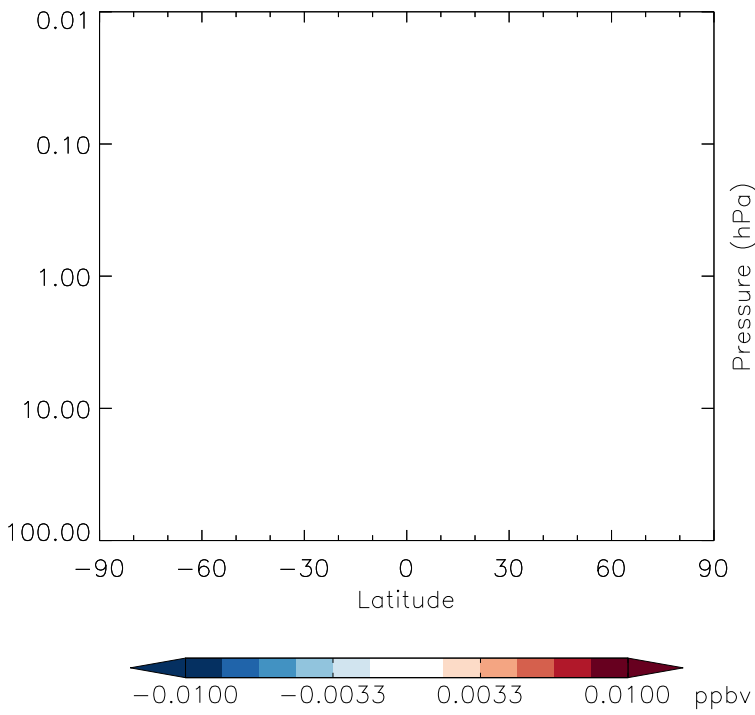
ISOPNB - Strat zonal mean % diff for Jul



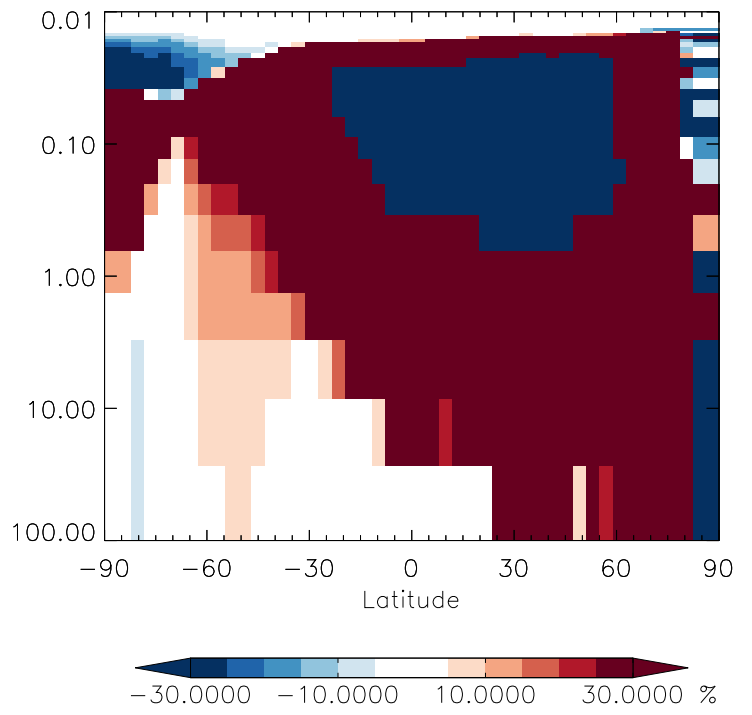


GEOS-Chem Stratospheric Zonal Difference Maps

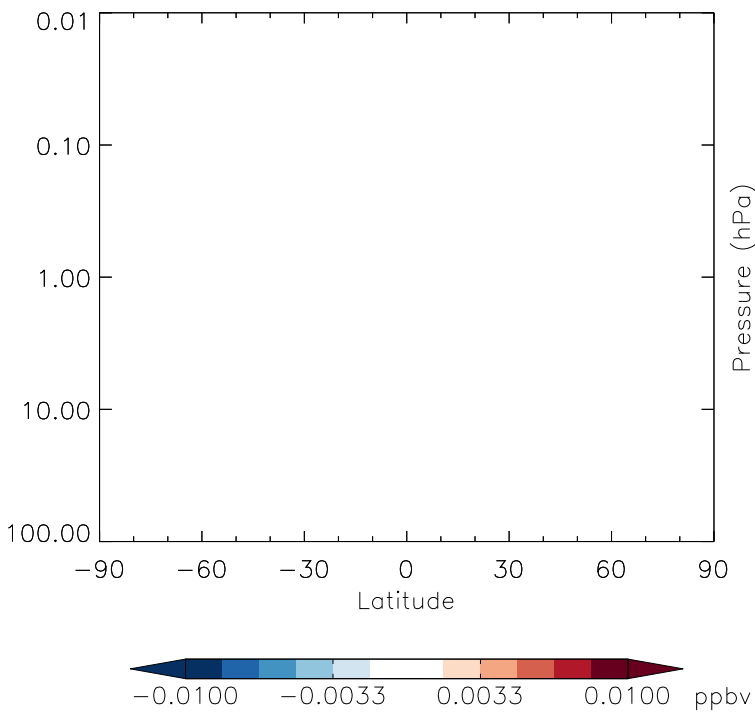
v11-01g-Run0 - v11-01f-geosp-Run0  
MOBA - Strat zonal mean abs diff for Jul



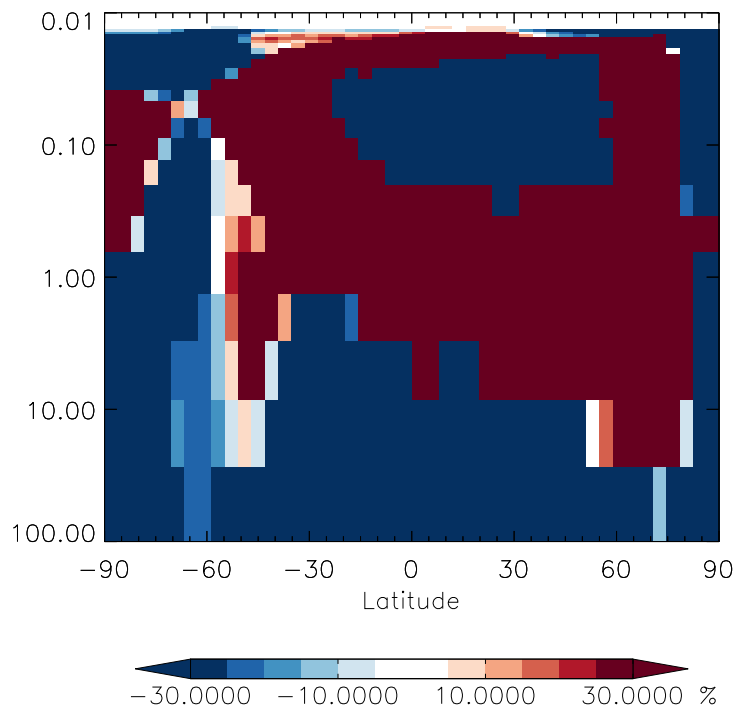
v11-01g-Run0 / v11-01f-geosp-Run0  
MOBA - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
MOBA - Strat zonal mean abs diff for Jul



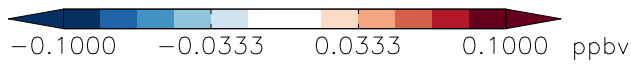
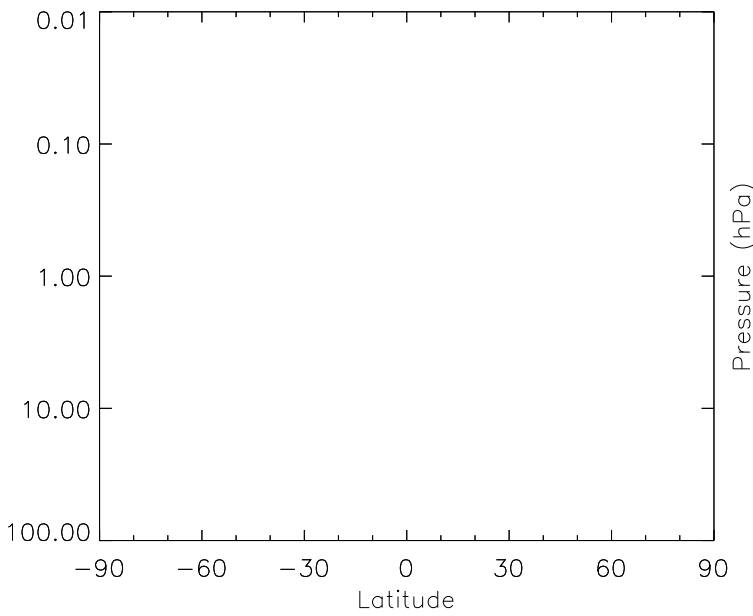
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MOBA - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

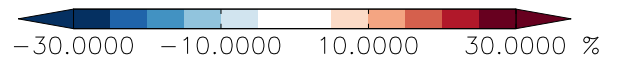
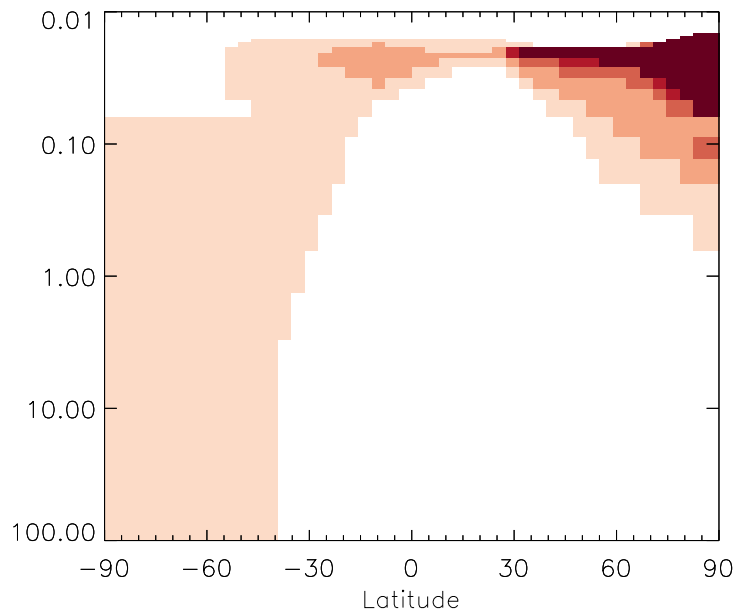
v11-01g-Run0 - v11-01f-geosfp-Run0

PROPNN - Strat zonal mean abs diff for Jul



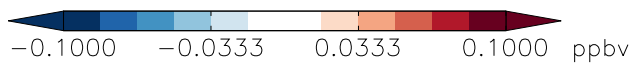
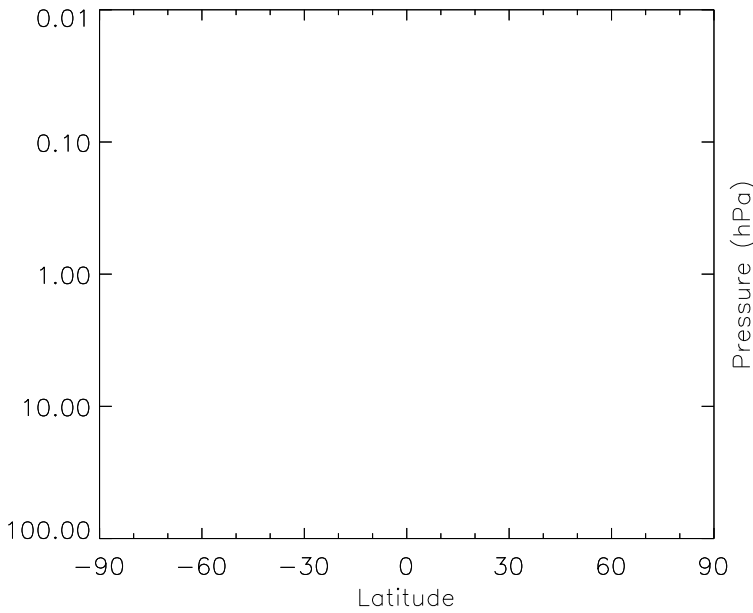
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PROPNN - Strat zonal mean % diff for Jul



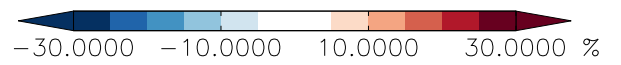
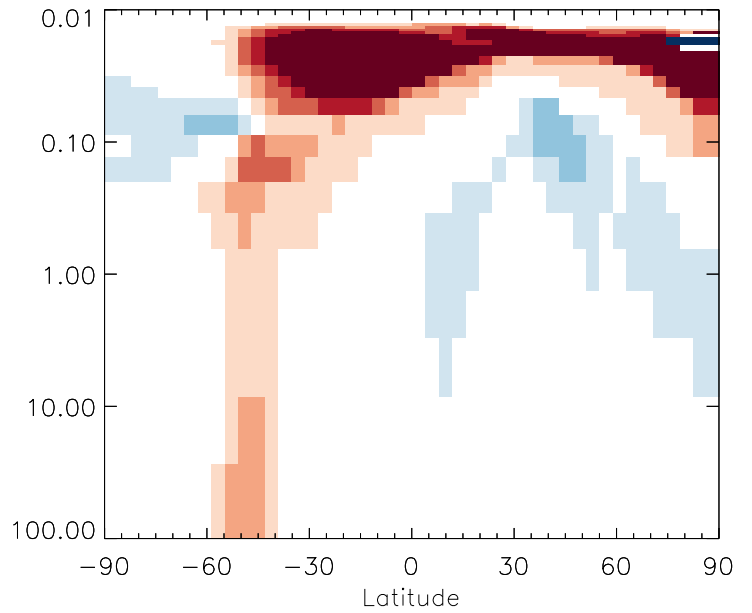
v11-01g-Run0 - v11-01d-Run1

PROPNN - Strat zonal mean abs diff for Jul



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

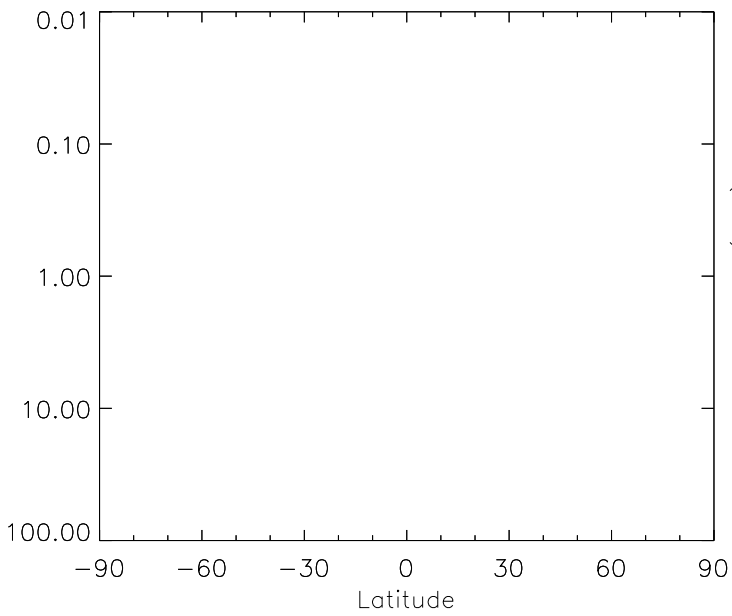
PROPNN - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

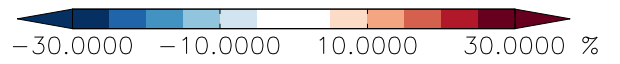
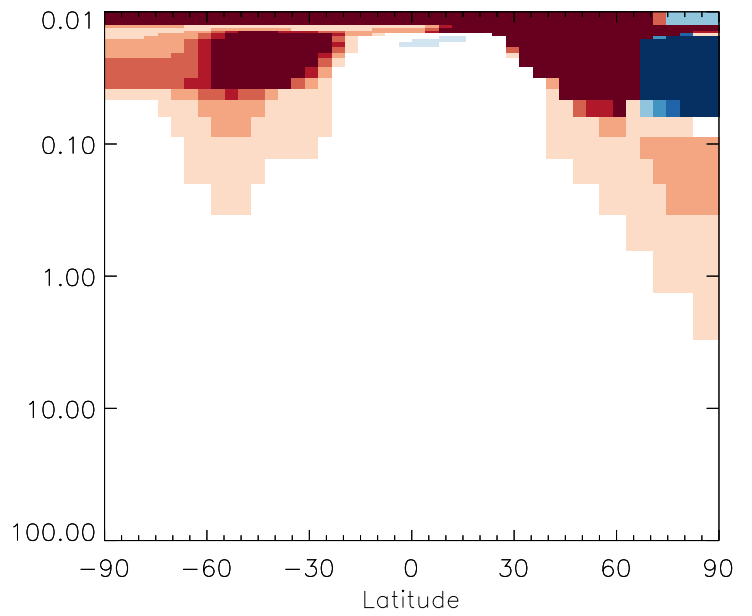
v11-01g-Run0 - v11-01f-geosfp-Run0

HAC - Strat zonal mean abs diff for Jul



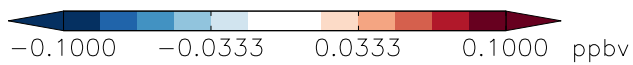
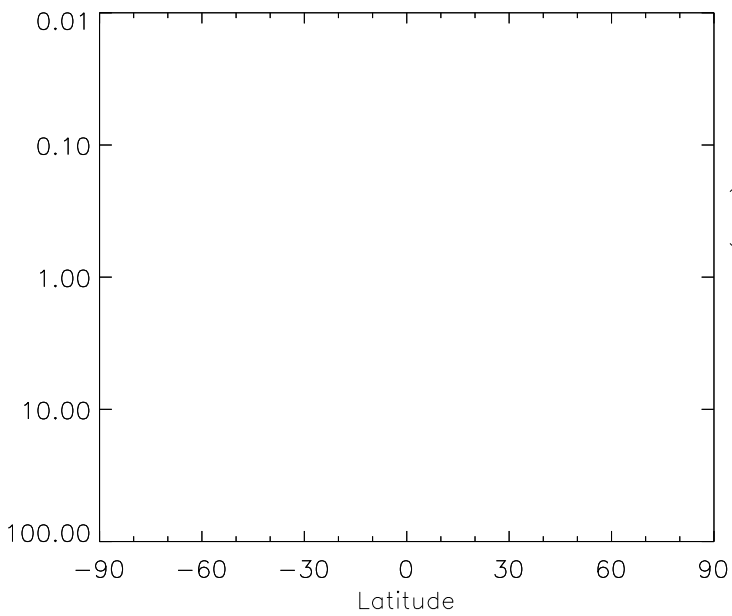
v11-01g-Run0 / v11-01f-geosfp-Run0

HAC - Strat zonal mean % diff for Jul



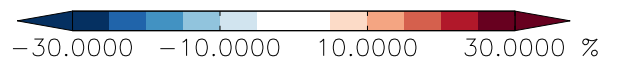
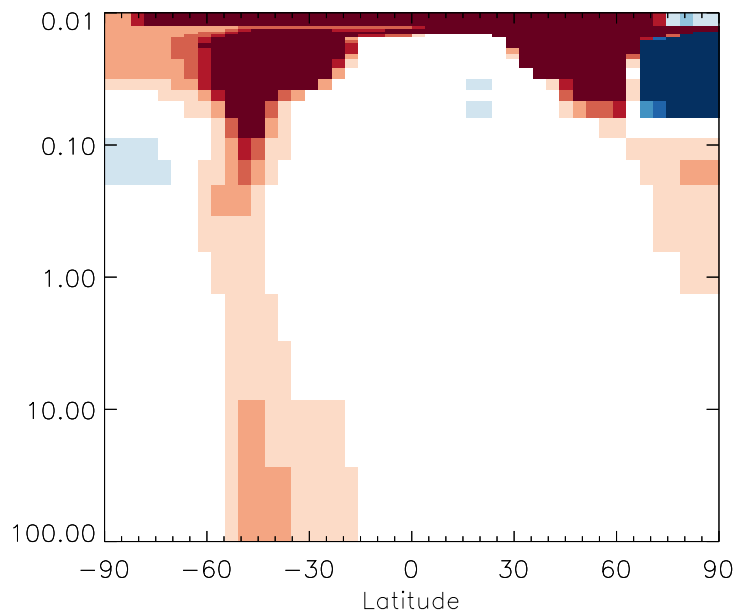
v11-01g-Run0 - v11-01d-Run1

HAC - Strat zonal mean abs diff for Jul



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

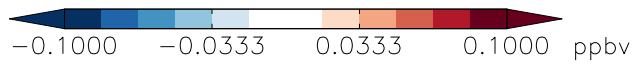
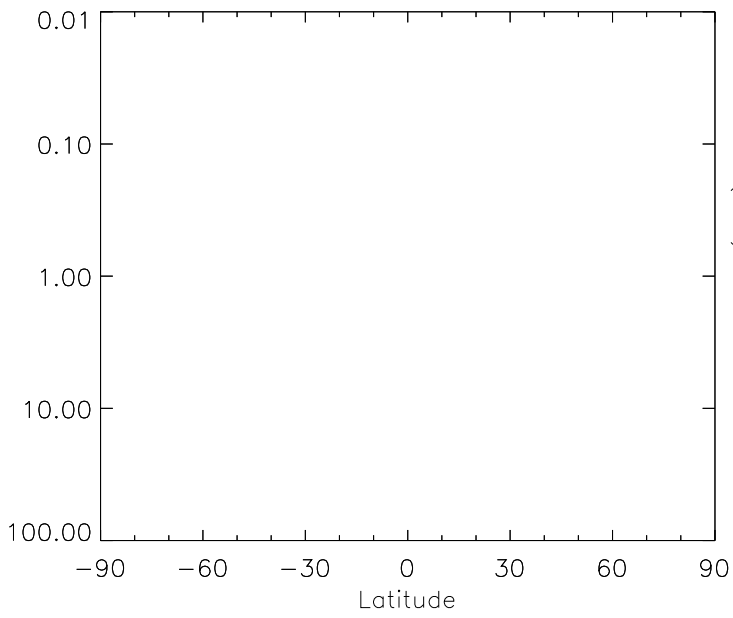
HAC - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

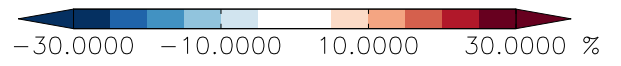
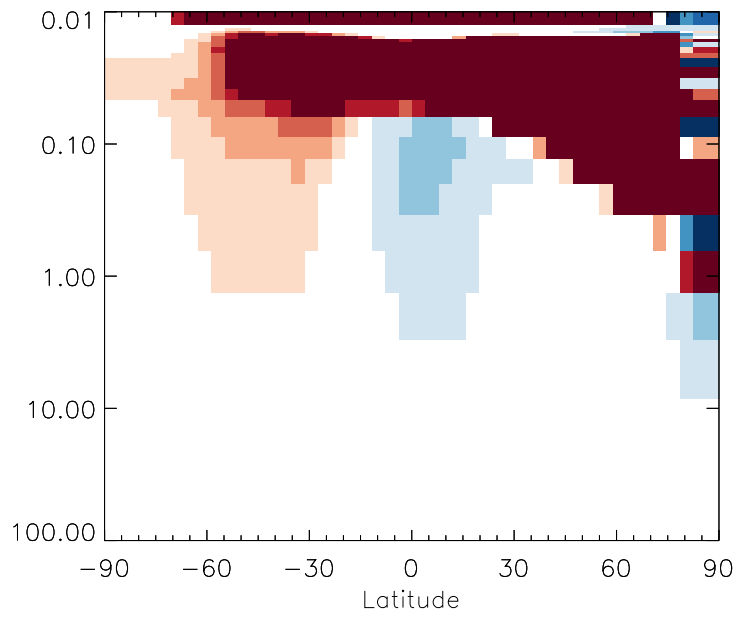
v11-01g-Run0 - v11-01f-geosfp-Run0

GLYC - Strat zonal mean abs diff for Jul



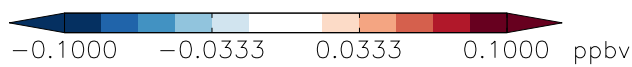
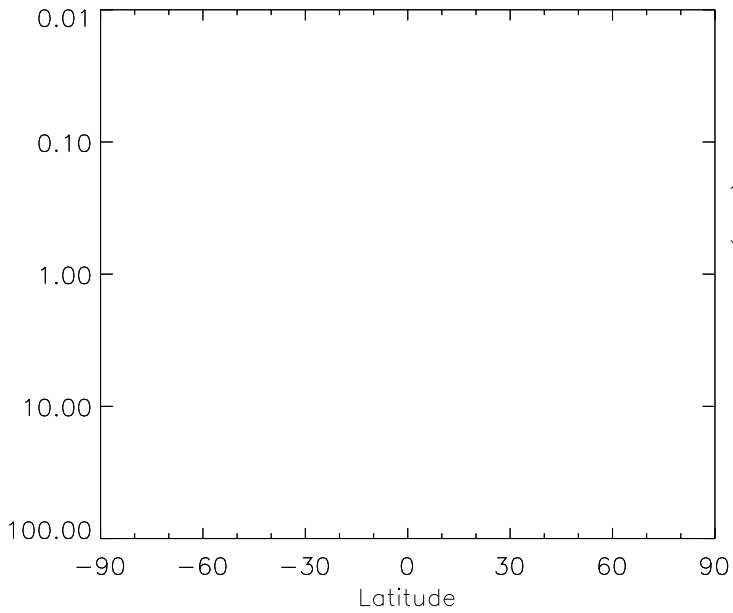
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GLYC - Strat zonal mean % diff for Jul



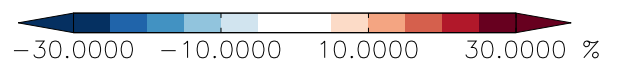
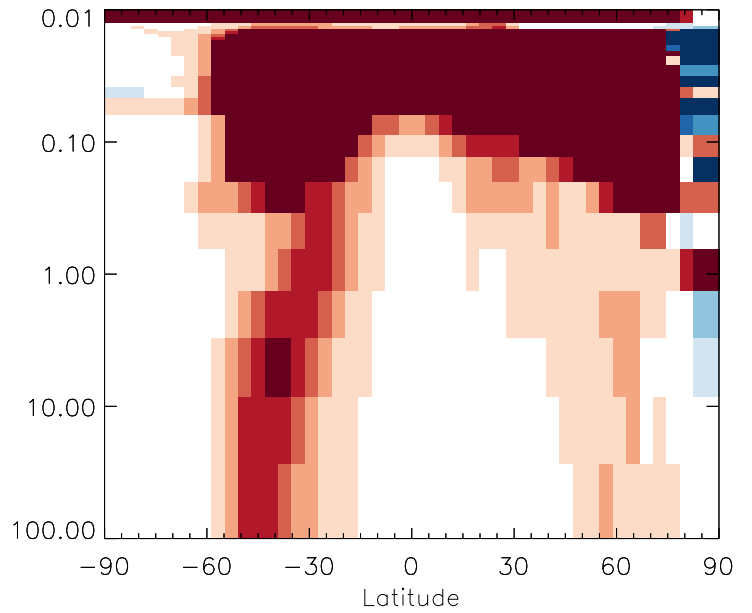
v11-01g-Run0 - v11-01d-Run1

GLYC - Strat zonal mean abs diff for Jul



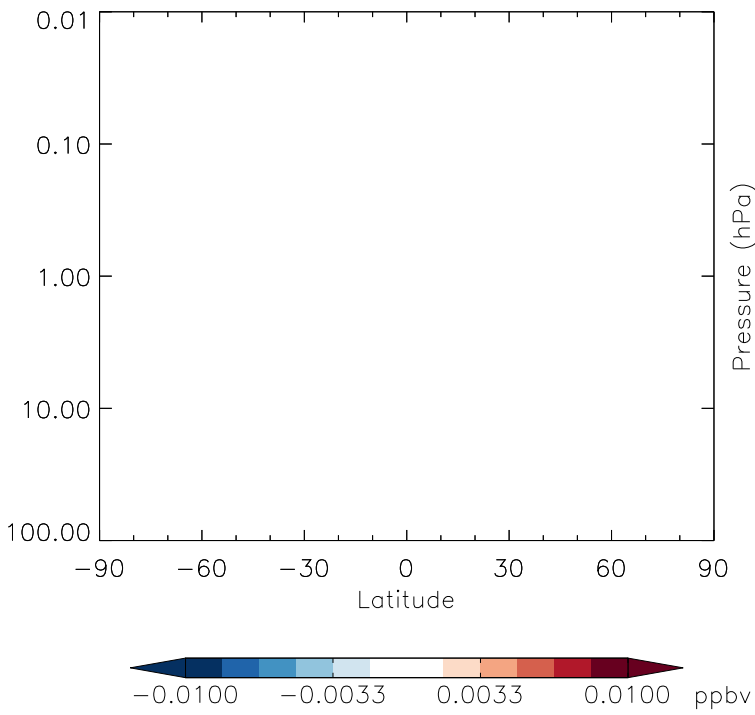
v11-01g-Run0 / v11-01d-Run1

GLYC - Strat zonal mean % diff for Jul

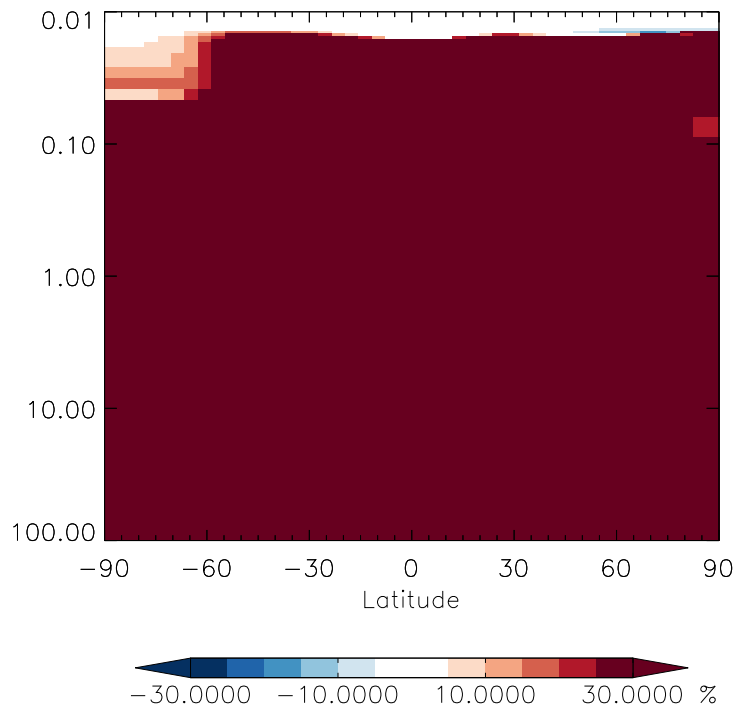


GEOS-Chem Stratospheric Zonal Difference Maps

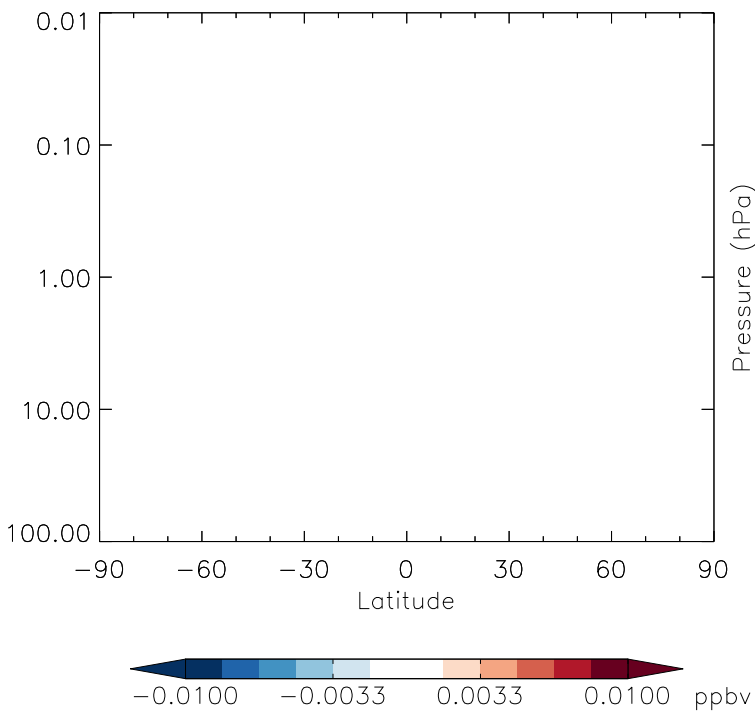
v11-01g-Run0 - v11-01f-geosfp-Run0  
MVKN - Strat zonal mean abs diff for Jul



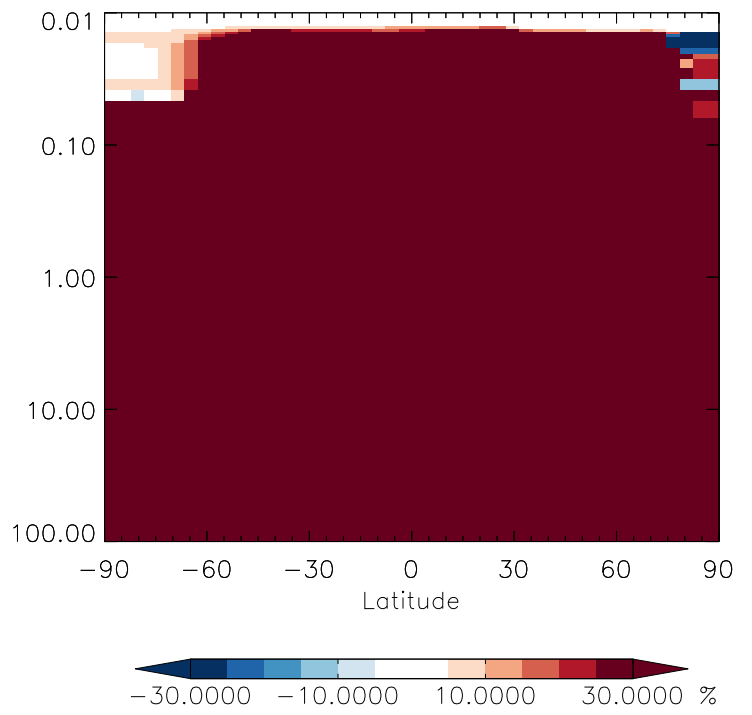
v11-01g-Run0 / v11-01f-geosfp-Run0  
MVKN - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
MVKN - Strat zonal mean abs diff for Jul

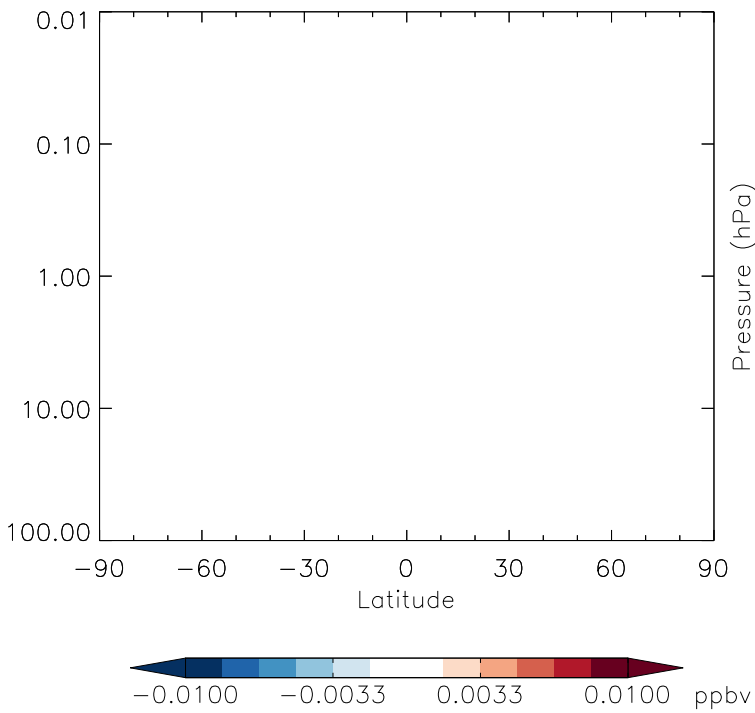


v11-01g-Run0 / v11-01d-Run1  
MVKN - Strat zonal mean % diff for Jul

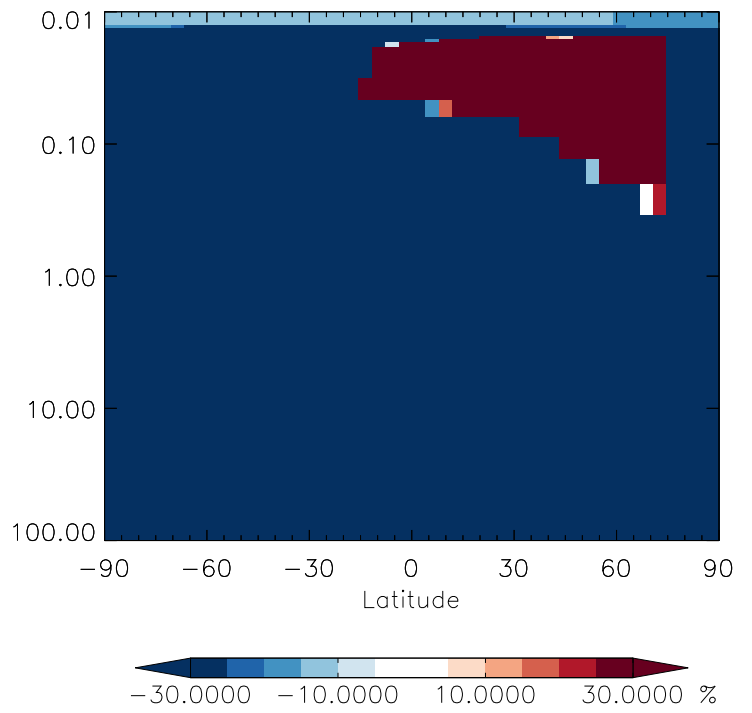


GEOS-Chem Stratospheric Zonal Difference Maps

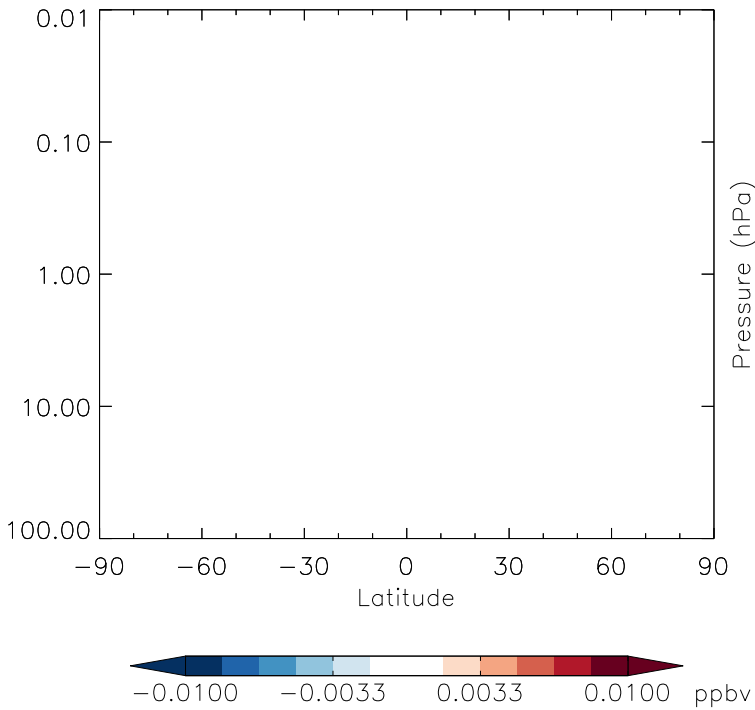
v11-01g-Run0 - v11-01f-geosfp-Run0  
MACRN - Strat zonal mean abs diff for Jul



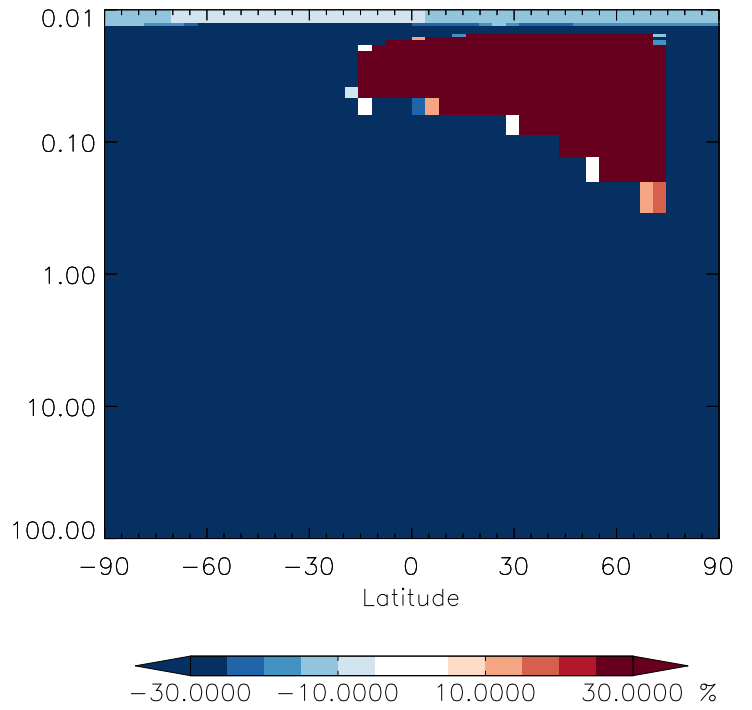
v11-01g-Run0 / v11-01f-geosfp-Run0  
MACRN - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
MACRN - Strat zonal mean abs diff for Jul



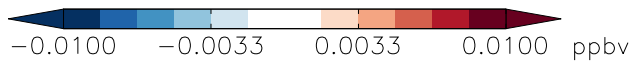
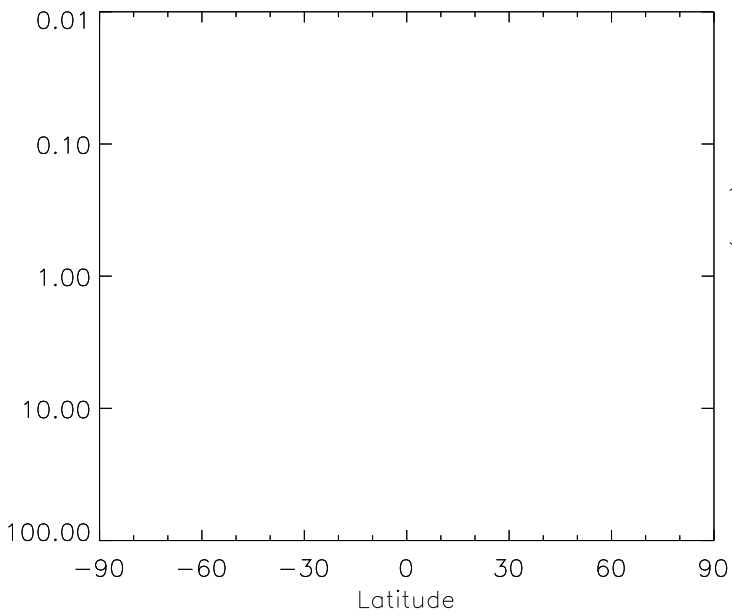
v11-01g-Run0 / v11-01d-Run1  
MACRN - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

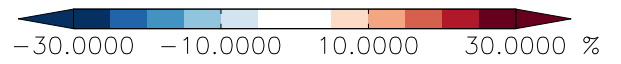
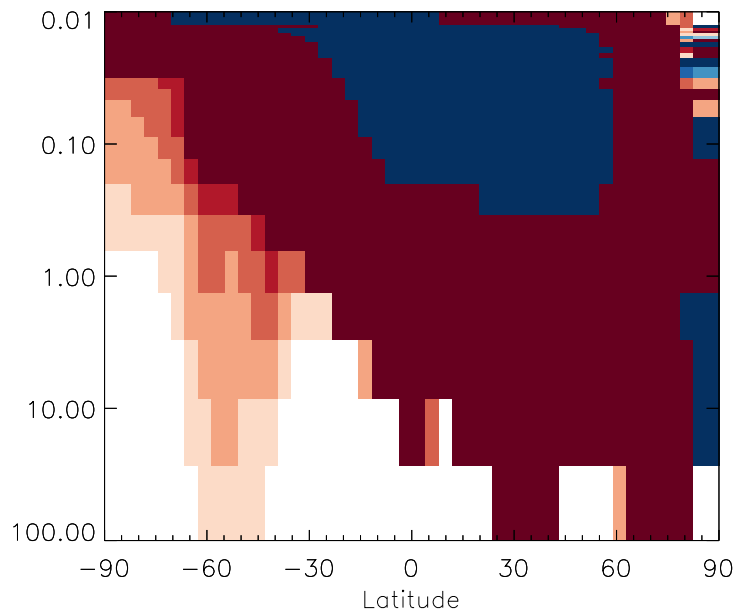
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RIP - Strat zonal mean abs diff for Jul



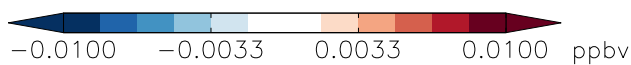
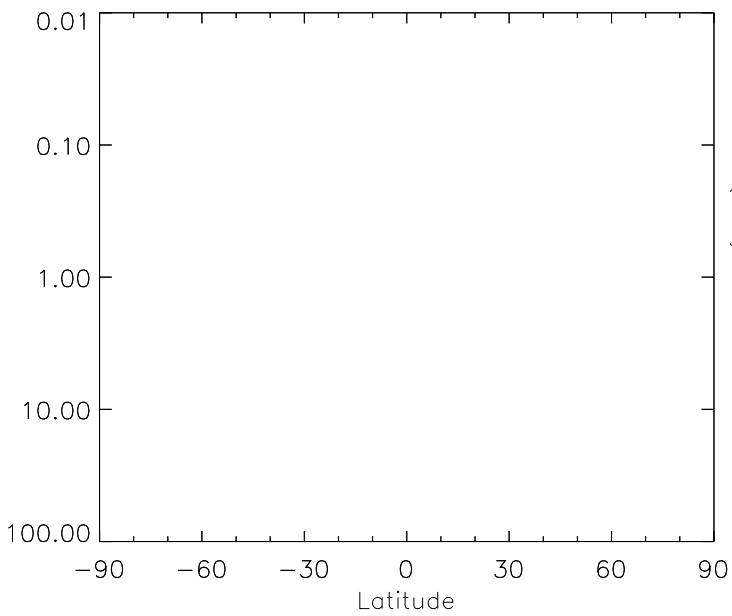
v11-01g-Run0 / v11-01f-geosfp-Run0

RIP - Strat zonal mean % diff for Jul



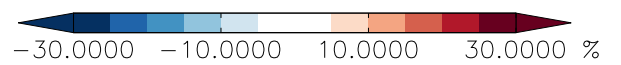
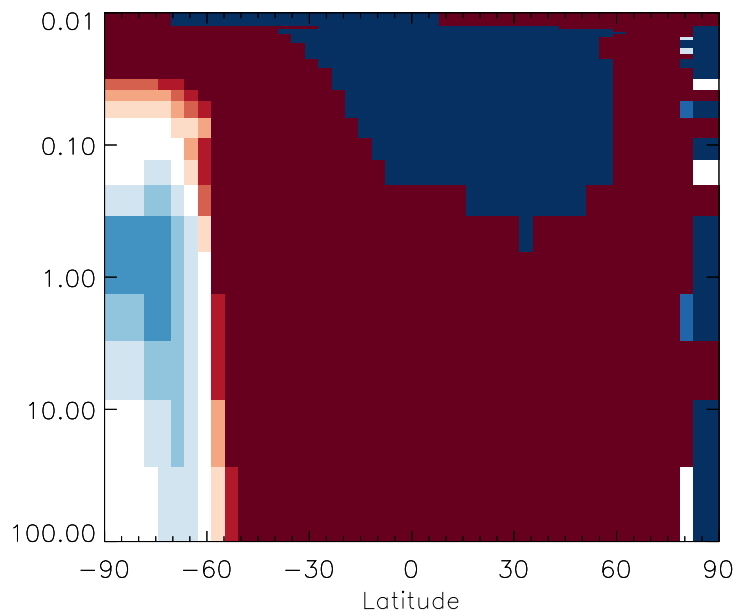
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RIP - Strat zonal mean abs diff for Jul



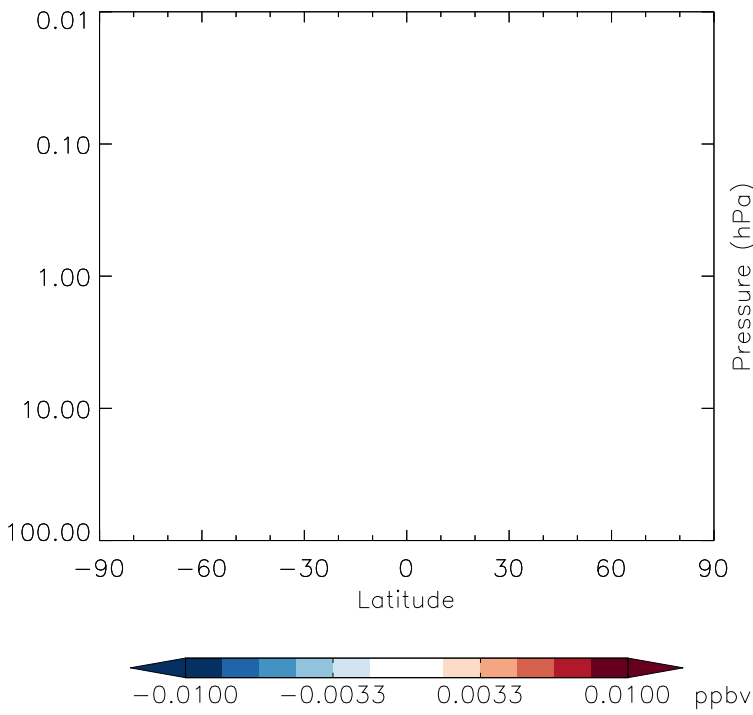
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RIP - Strat zonal mean % diff for Jul

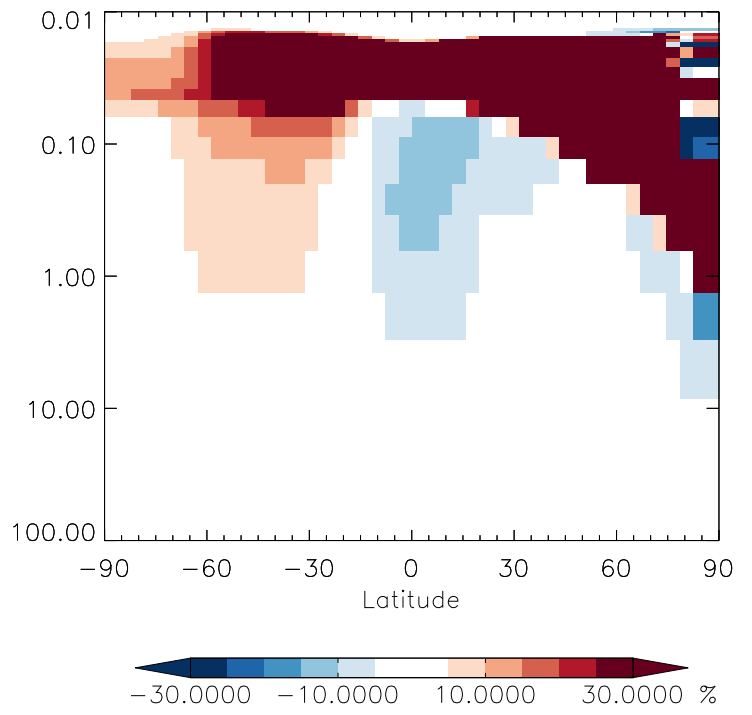


GEOS-Chem Stratospheric Zonal Difference Maps

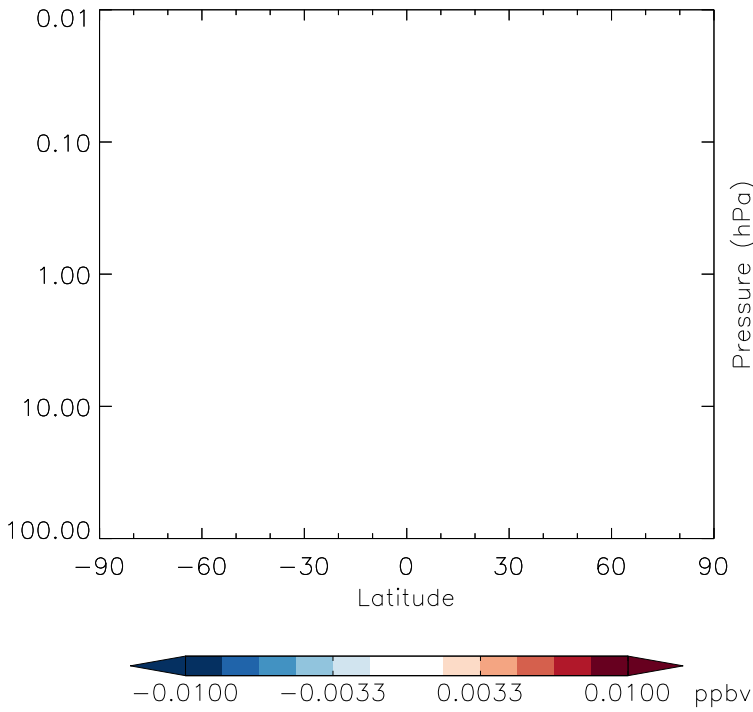
v11-01g-Run0 - v11-01f-geosfp-Run0  
IEPOX - Strat zonal mean abs diff for Jul



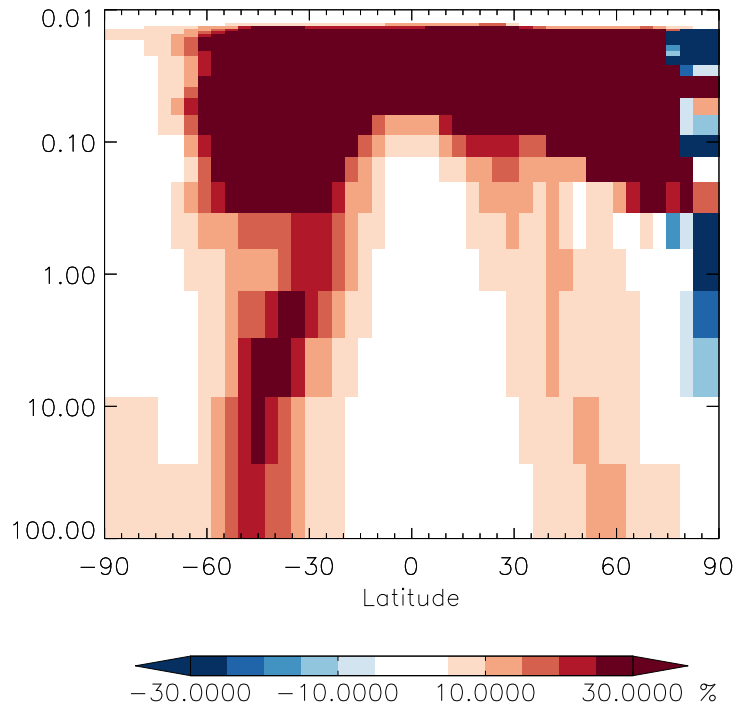
v11-01g-Run0 / v11-01f-geosfp-Run0  
IEPOX - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
IEPOX - Strat zonal mean abs diff for Jul



v11-01g-Run0 / v11-01d-Run1  
IEPOX - Strat zonal mean % diff for Jul

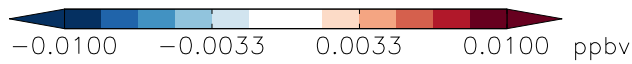
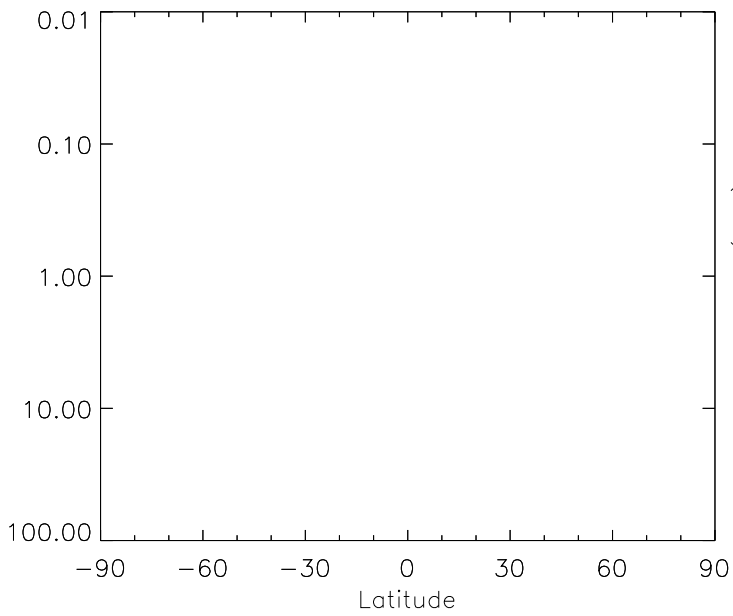




GEOS-Chem Stratospheric Zonal Difference Maps

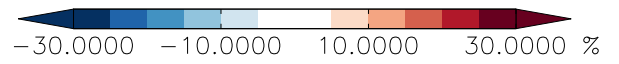
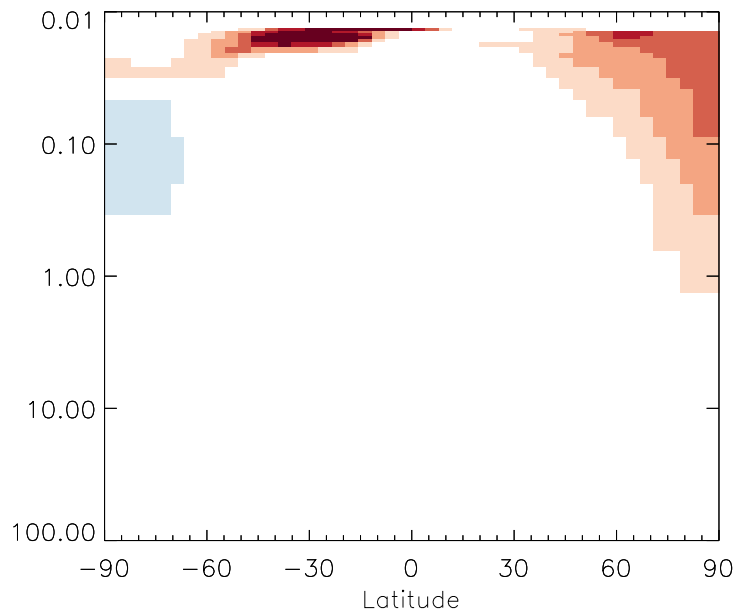
v11-01g-Run0 - v11-01f-geosfp-Run0

MAP - Strat zonal mean abs diff for Jul



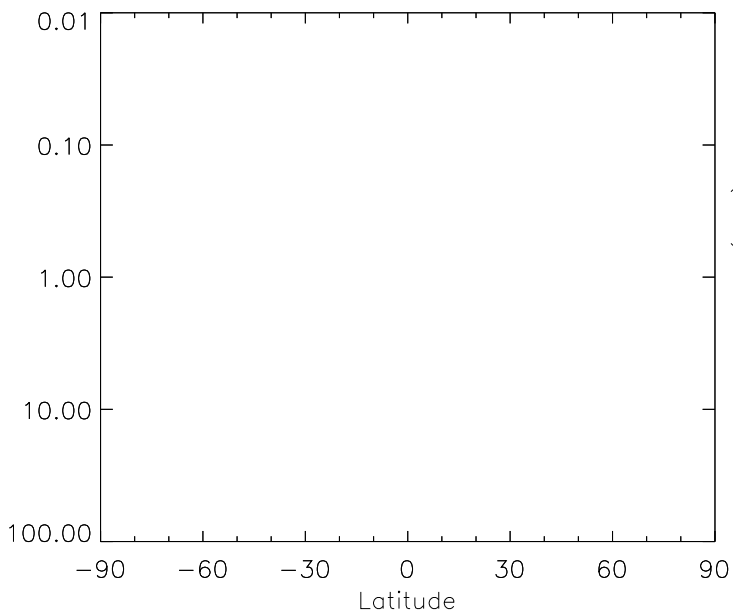
v11-01g-Run0 / v11-01f-geosfp-Run0

MAP - Strat zonal mean % diff for Jul



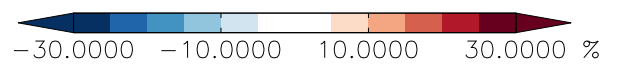
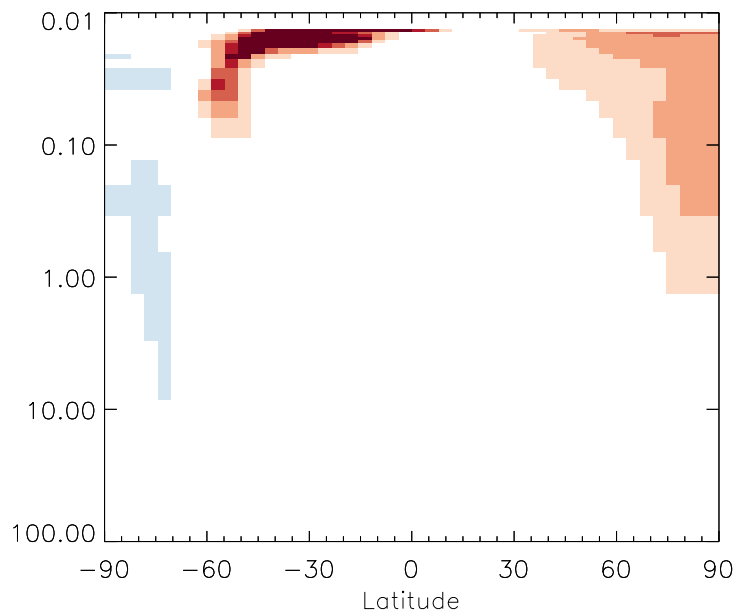
v11-01g-Run0 - v11-01d-Run1

MAP - Strat zonal mean abs diff for Jul



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

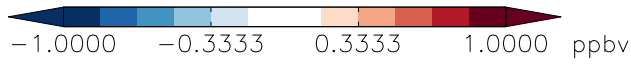
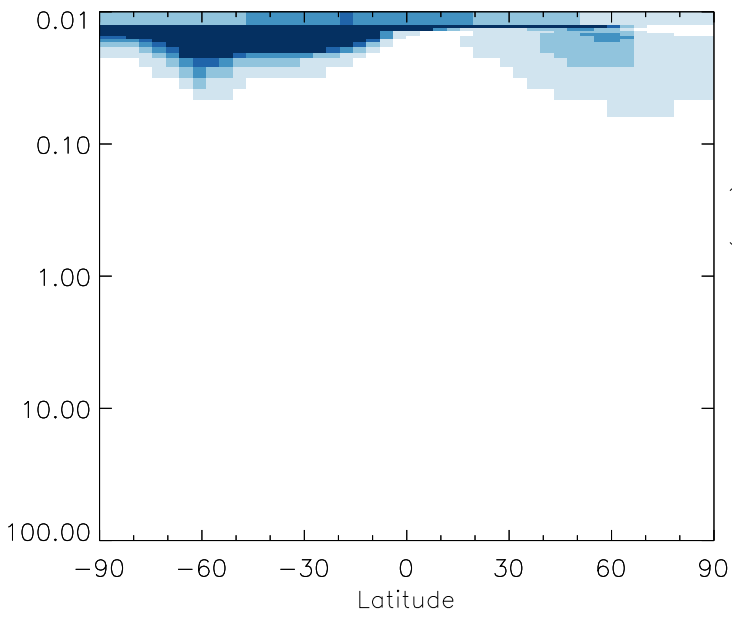
MAP - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

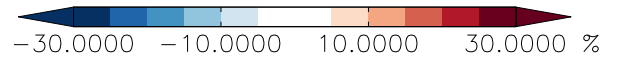
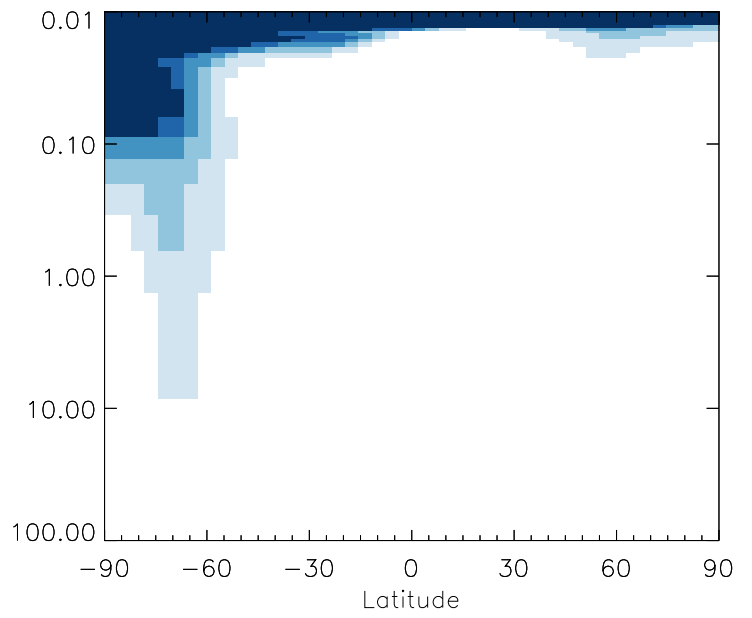
v11-01g-Run0 - v11-01f-geosfp-Run0

NO<sub>2</sub> - Strat zonal mean abs diff for Jul



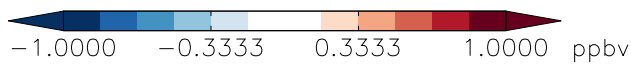
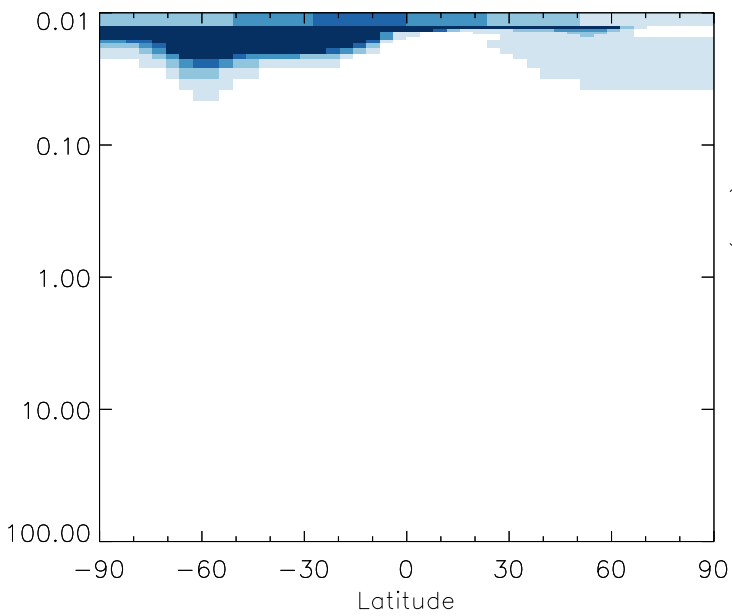
v11-01g-Run0 / v11-01f-geosfp-Run0

NO<sub>2</sub> - Strat zonal mean % diff for Jul



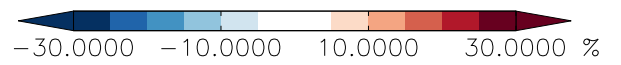
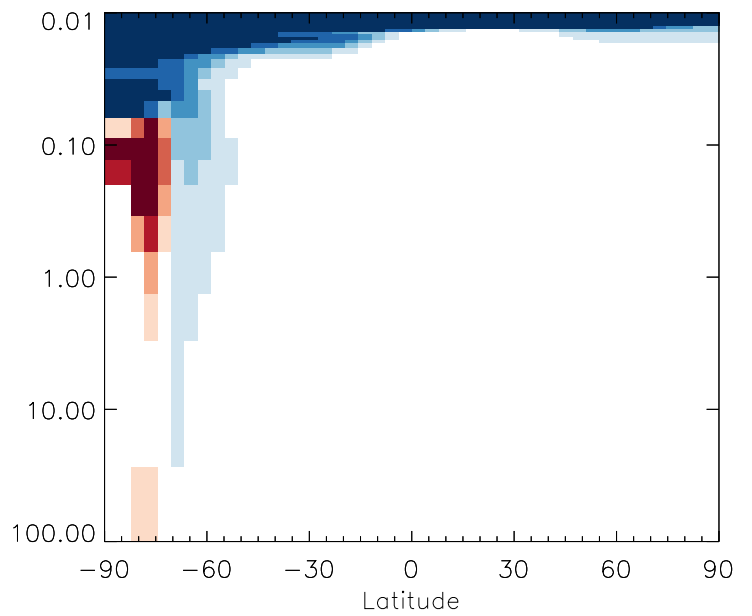
v11-01g-Run0 - v11-01d-Run1

NO<sub>2</sub> - Strat zonal mean abs diff for Jul



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

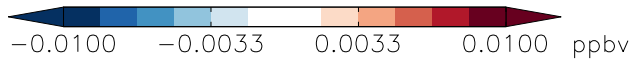
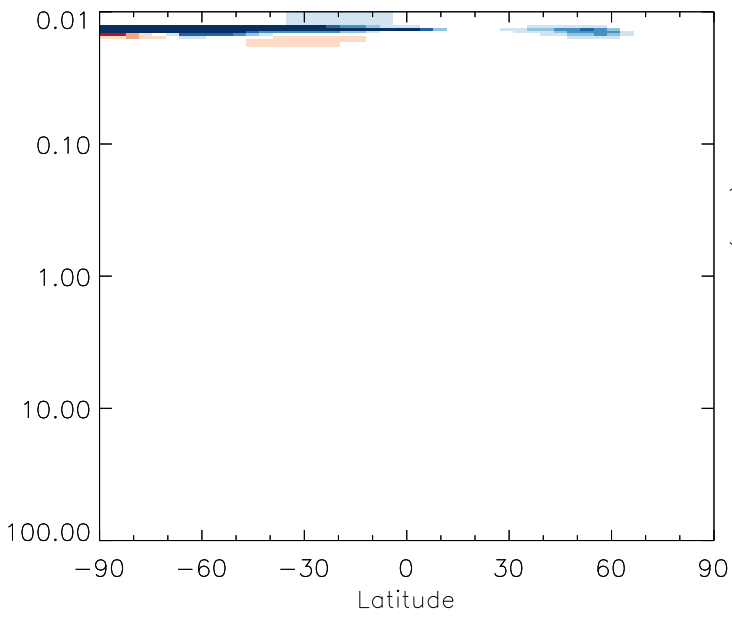
NO<sub>2</sub> - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

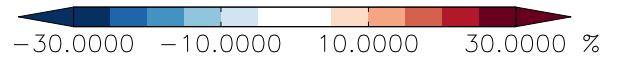
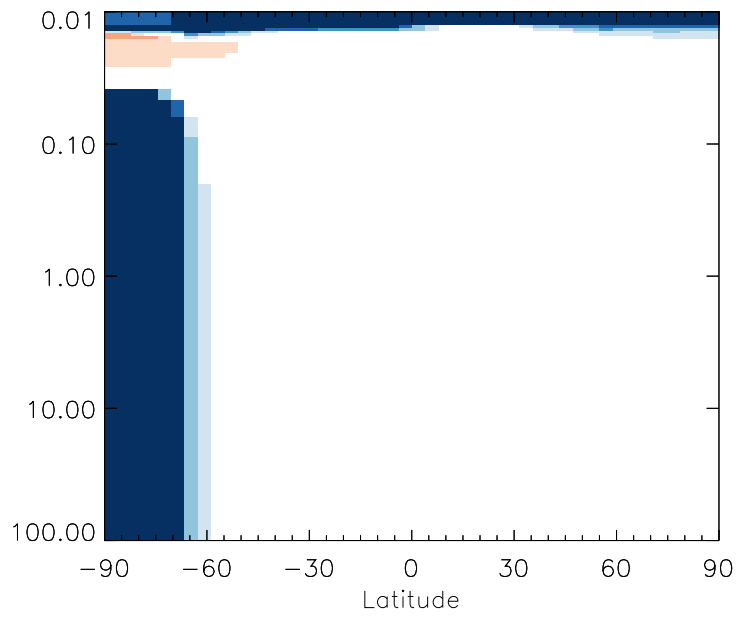
v11-01g-Run0 - v11-01f-geosfp-Run0

NO<sub>3</sub> - Strat zonal mean abs diff for Jul



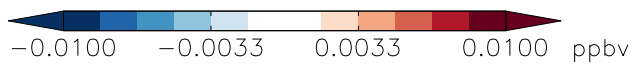
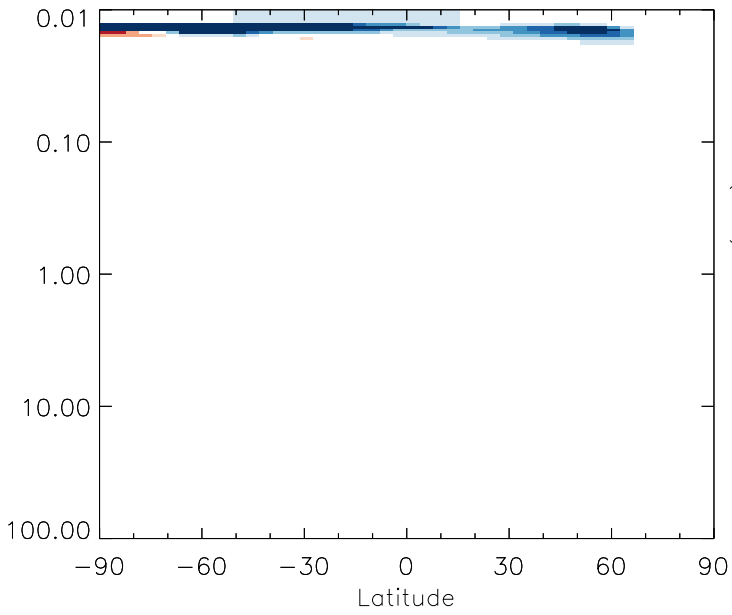
v11-01g-Run0 / v11-01f-geosfp-Run0

NO<sub>3</sub> - Strat zonal mean % diff for Jul



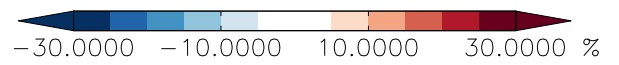
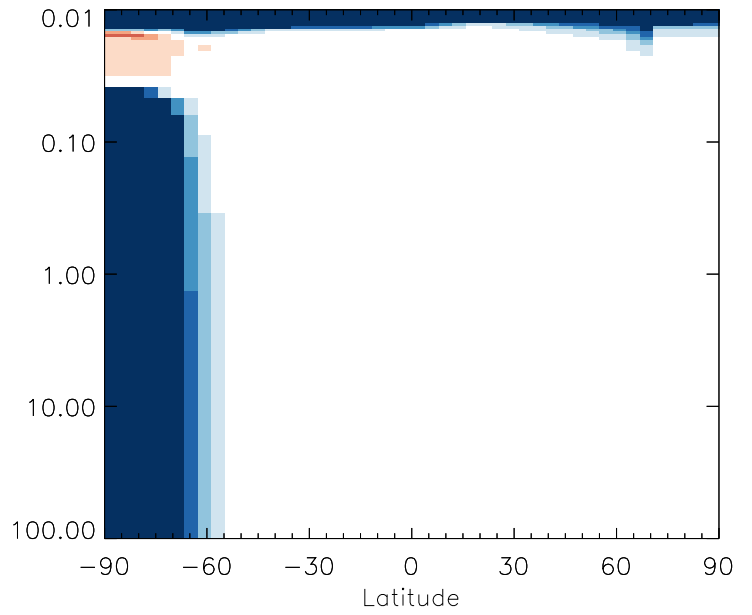
v11-01g-Run0 - v11-01d-Run1

NO<sub>3</sub> - Strat zonal mean abs diff for Jul



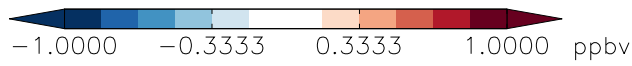
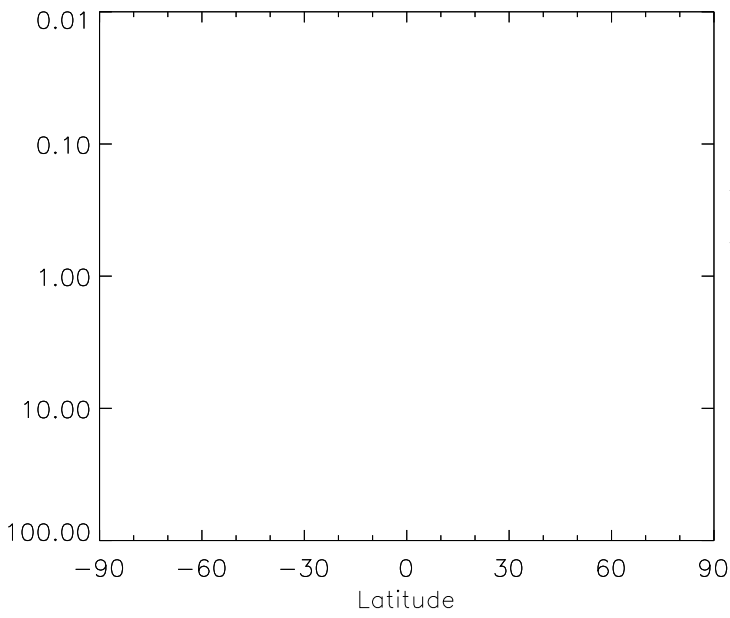
v11-01g-Run0 / v11-01d-Run1

NO<sub>3</sub> - Strat zonal mean % diff for Jul

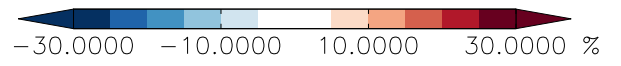
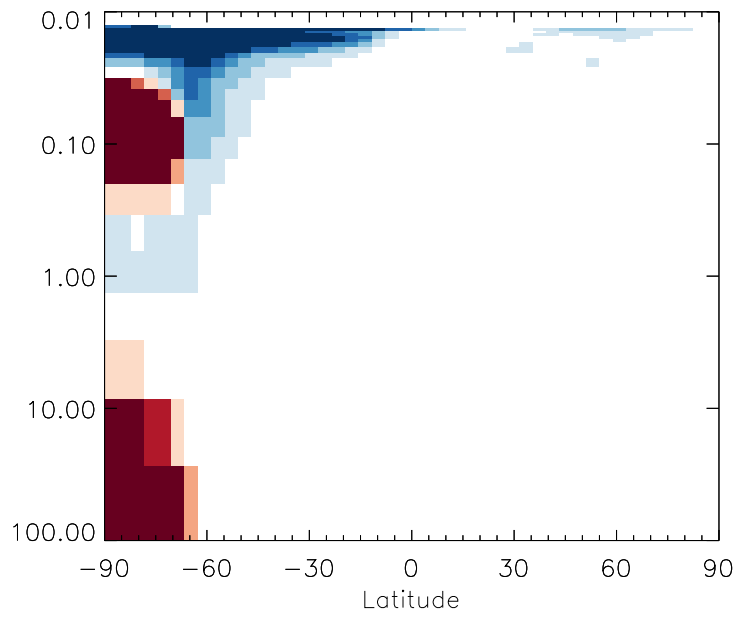


GEOS-Chem Stratospheric Zonal Difference Maps

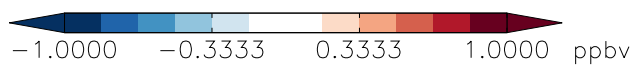
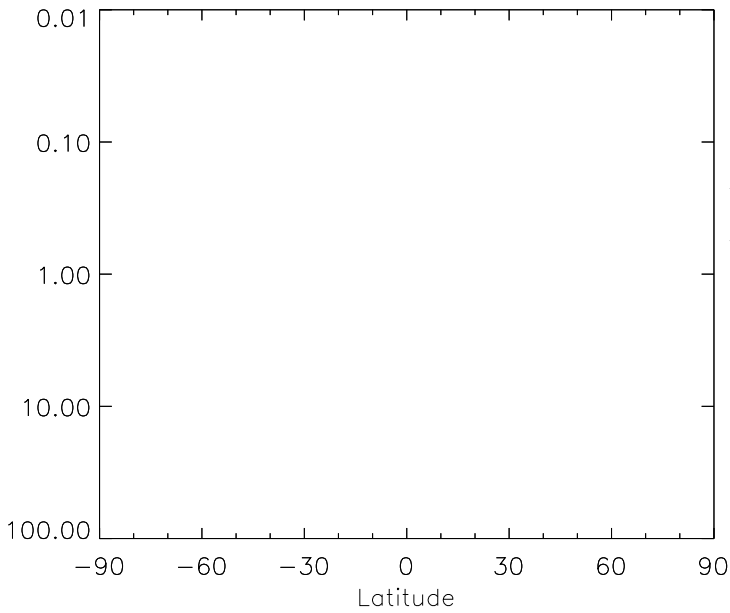
v11-01g-Run0 - v11-01f-geosfp-Run0  
HNO<sub>2</sub> - Strat zonal mean abs diff for Jul



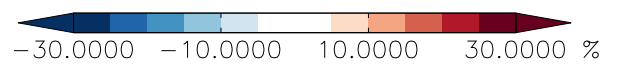
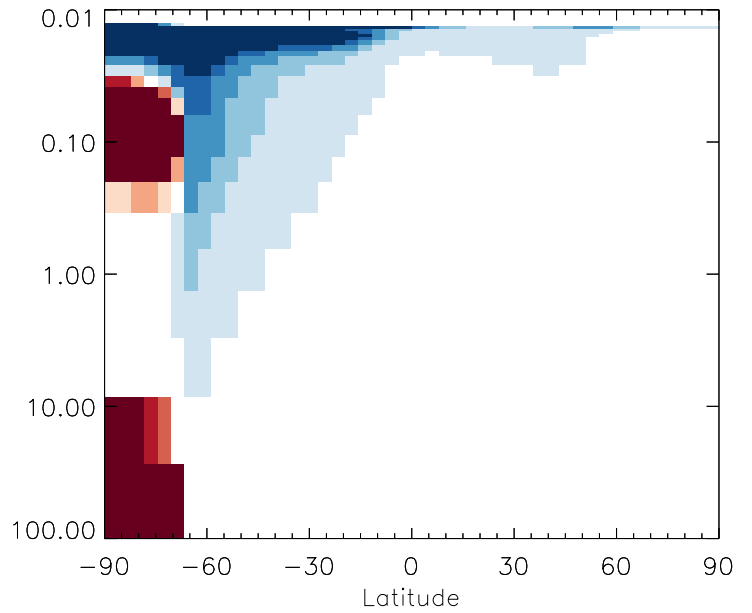
v11-01g-Run0 / v11-01f-geosfp-Run0  
HNO<sub>2</sub> - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
HNO<sub>2</sub> - Strat zonal mean abs diff for Jul

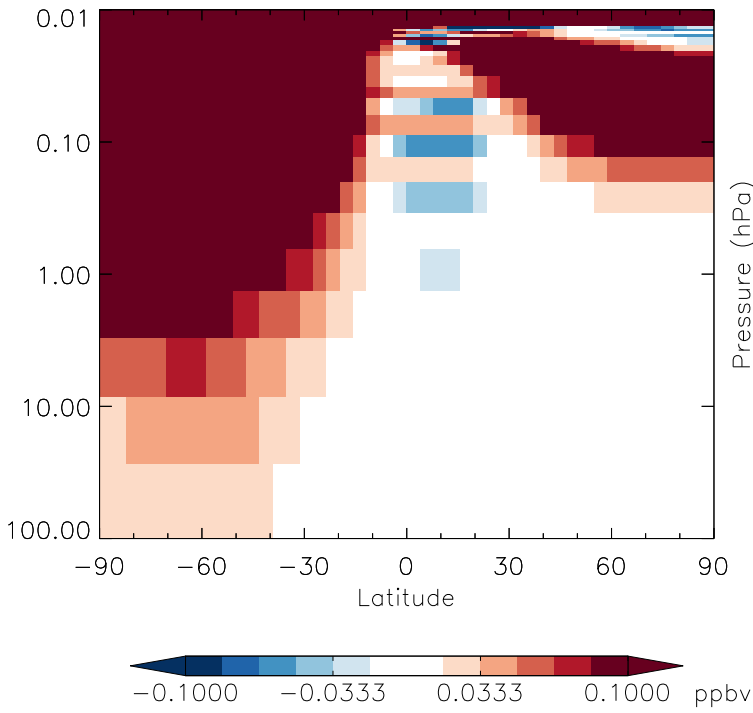


v11-01g-Run0 / v11-01d-Run1  
HNO<sub>2</sub> - Strat zonal mean % diff for Jul

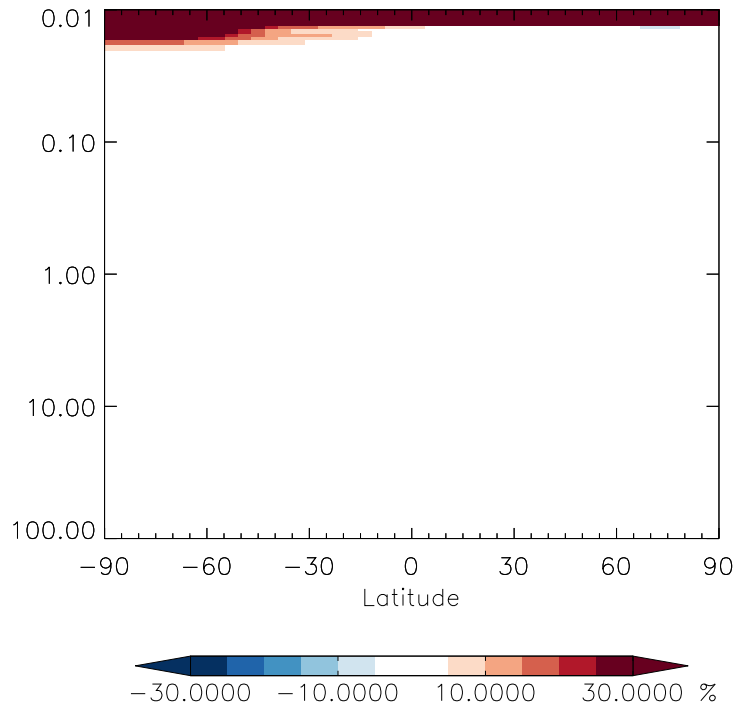


GEOS-Chem Stratospheric Zonal Difference Maps

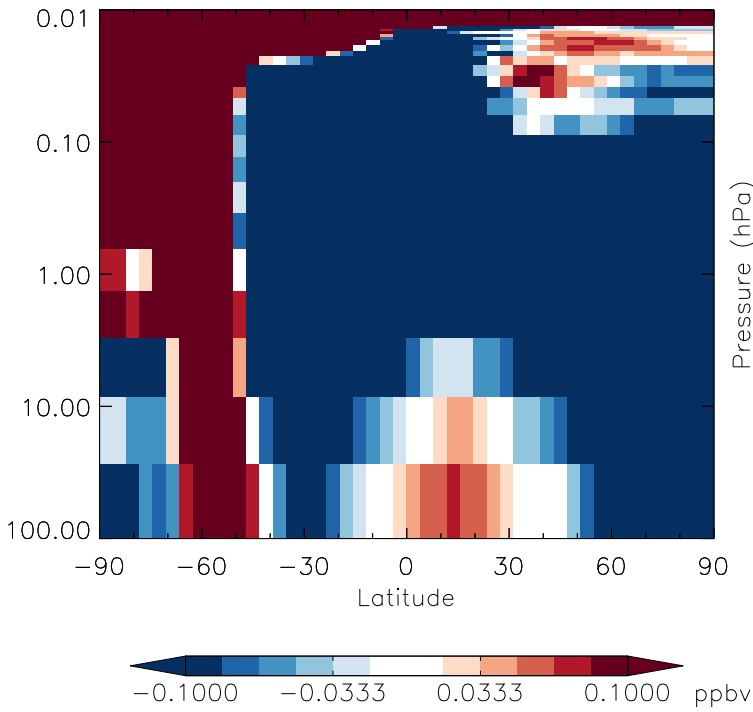
v11-01g-Run0 - v11-01f-geosfp-Run0  
N2O - Strat zonal mean abs diff for Jul



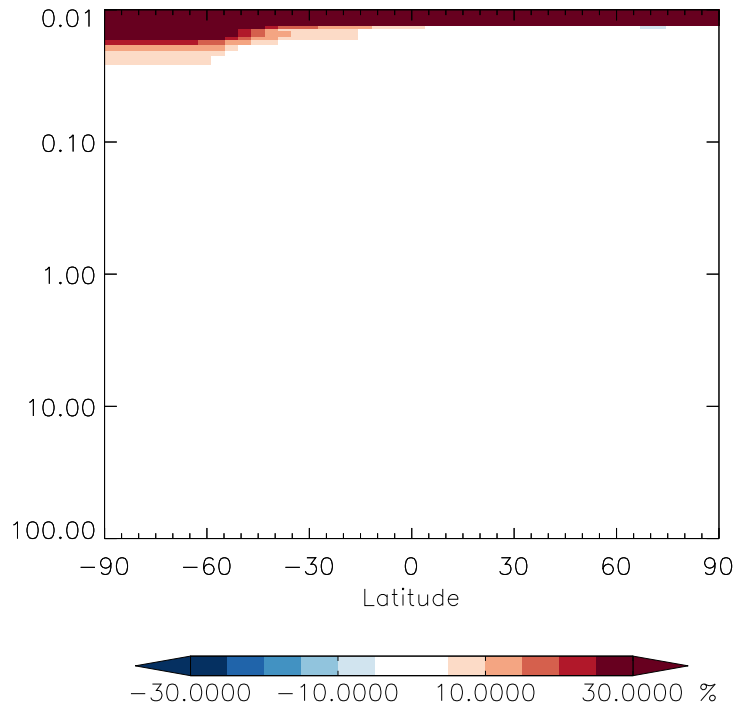
v11-01g-Run0 / v11-01f-geosfp-Run0  
N2O - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
N2O - Strat zonal mean abs diff for Jul

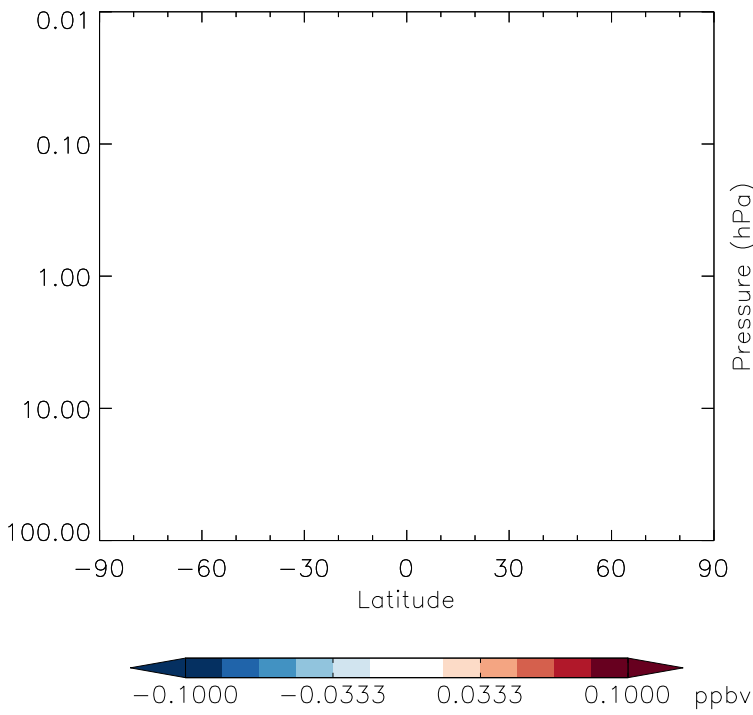


v11-01g-Run0 / v11-01d-Run1  
N2O - Strat zonal mean % diff for Jul

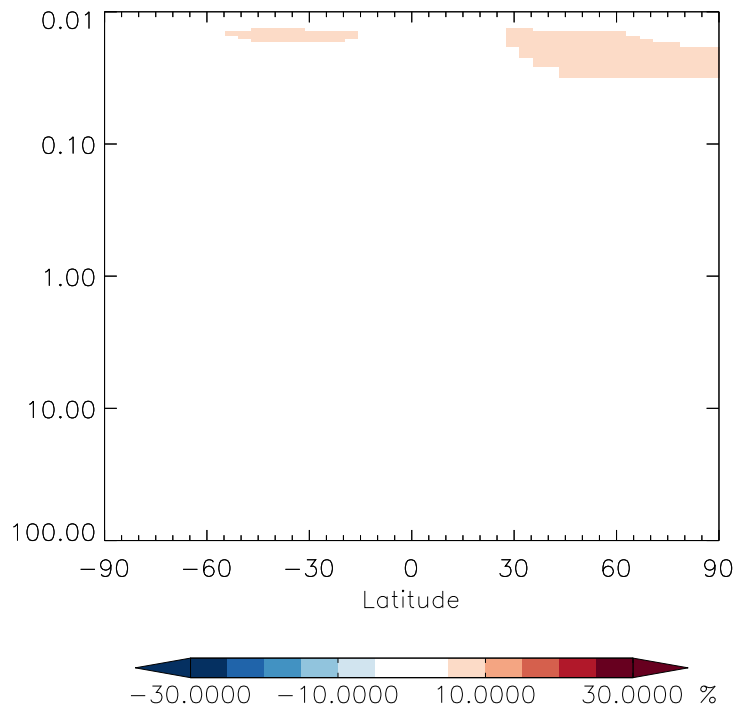


GEOS-Chem Stratospheric Zonal Difference Maps

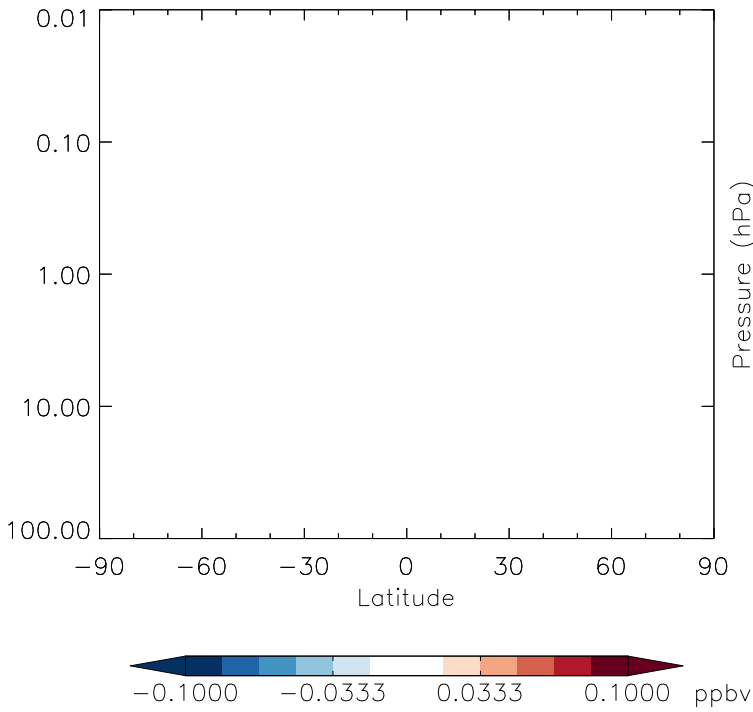
v11-01g-Run0 - v11-01f-geosfp-Run0  
OCS - Strat zonal mean abs diff for Jul



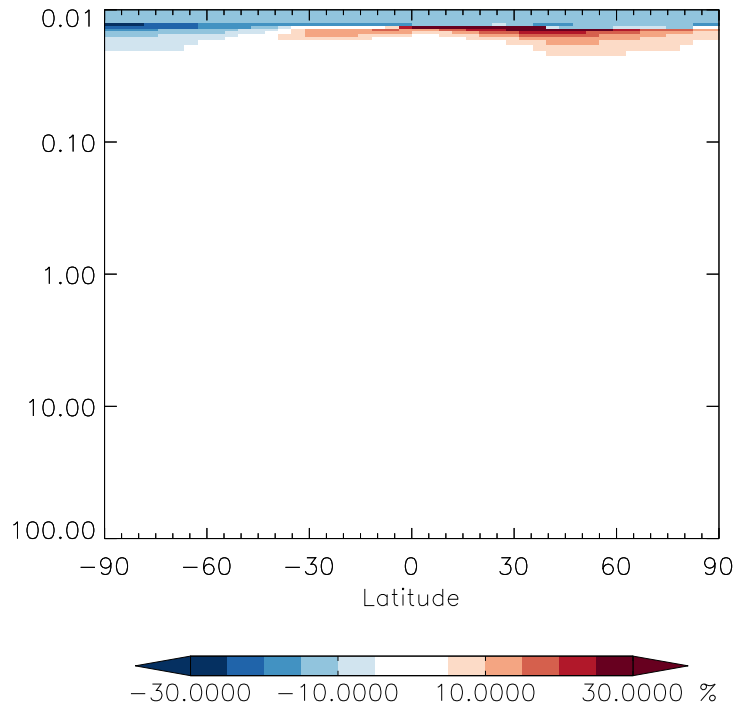
v11-01g-Run0 / v11-01f-geosfp-Run0  
OCS - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
OCS - Strat zonal mean abs diff for Jul



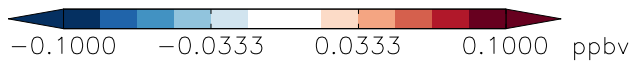
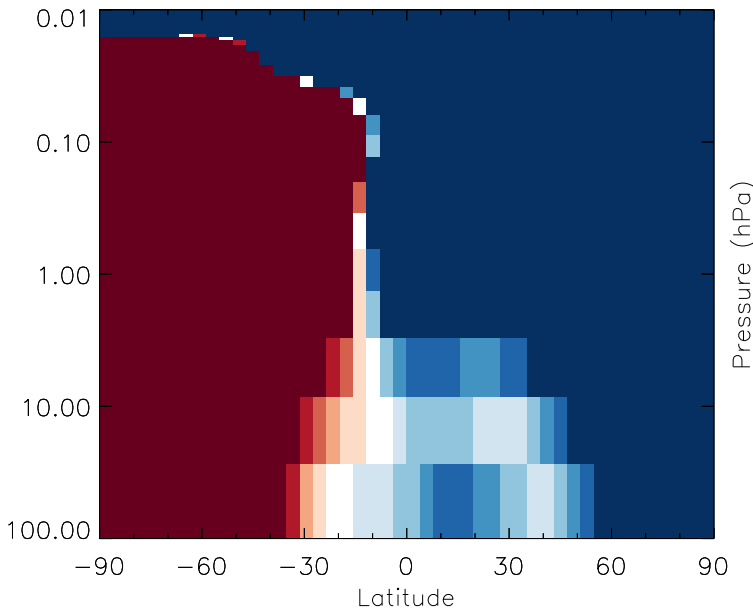
v11-01g-Run0 / v11-01d-Run1  
OCS - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

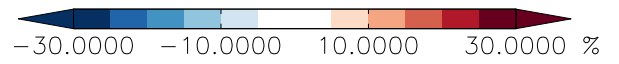
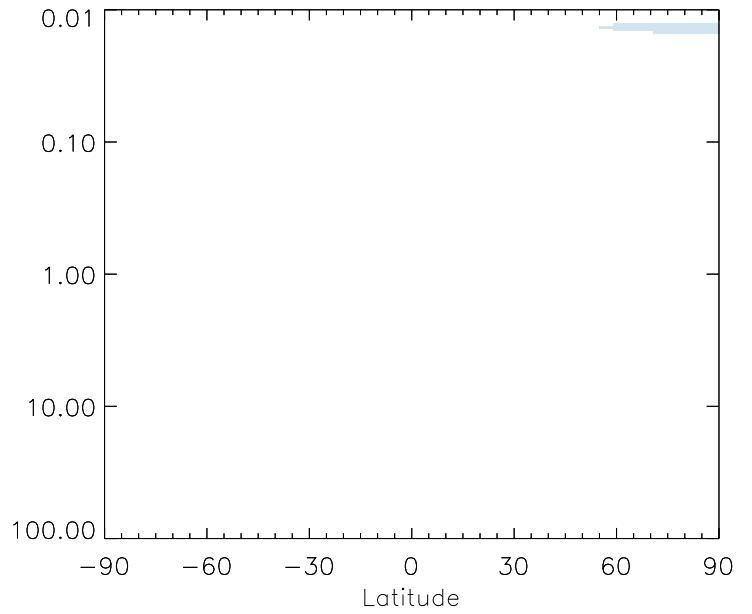
v11-01g-Run0 - v11-01f-geosp-Run0

CH4 - Strat zonal mean abs diff for Jul



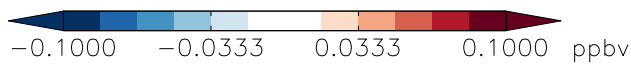
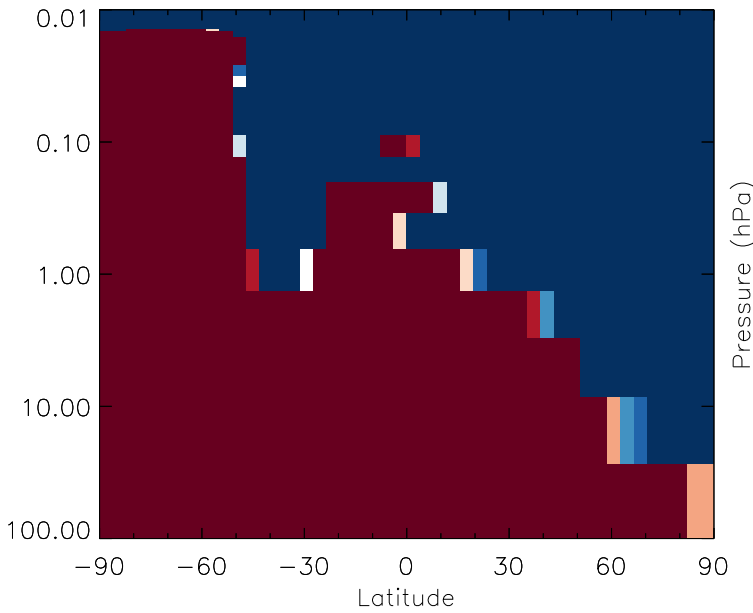
v11-01g-Run0 / v11-01f-geosp-Run0

CH4 - Strat zonal mean % diff for Jul



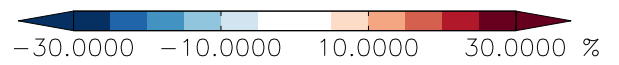
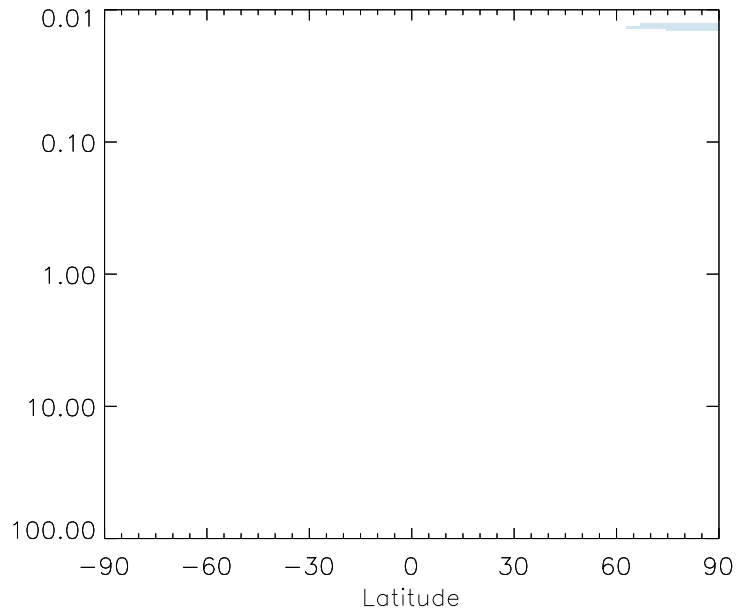
v11-01g-Run0 - v11-01d-Run1

CH4 - Strat zonal mean abs diff for Jul



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

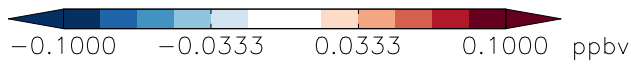
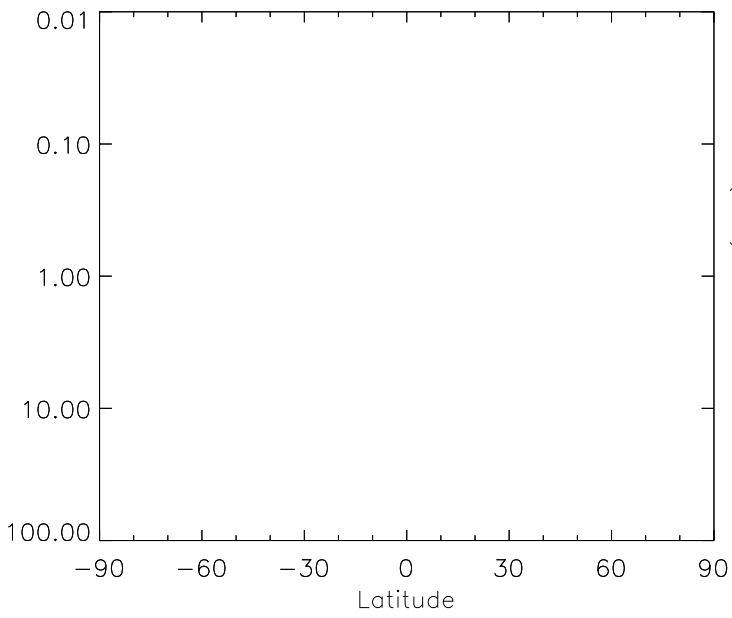
CH4 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

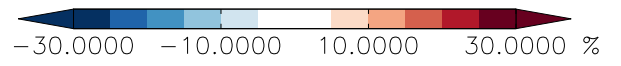
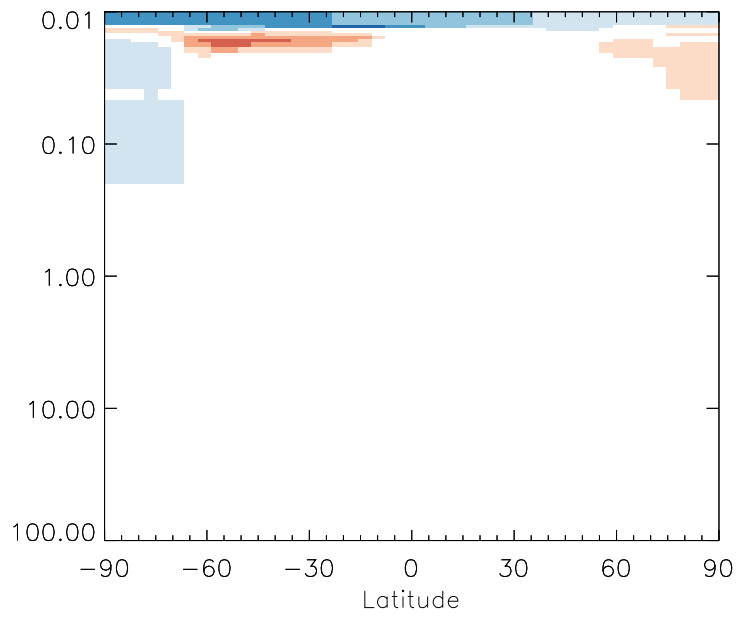
v11-01g-Run0 - v11-01f-geosfp-Run0

BrCl - Strat zonal mean abs diff for Jul



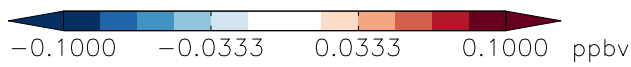
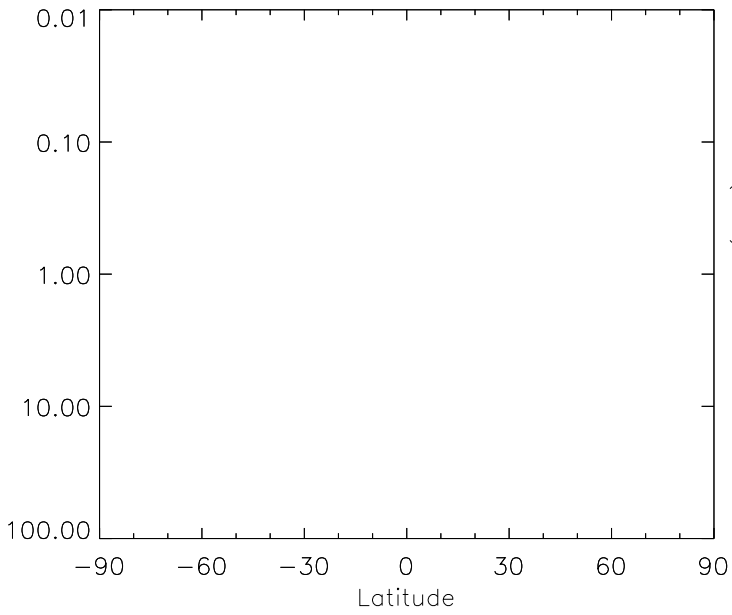
v11-01g-Run0 / v11-01f-geosfp-Run0

BrCl - Strat zonal mean % diff for Jul



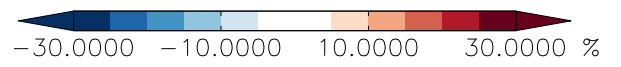
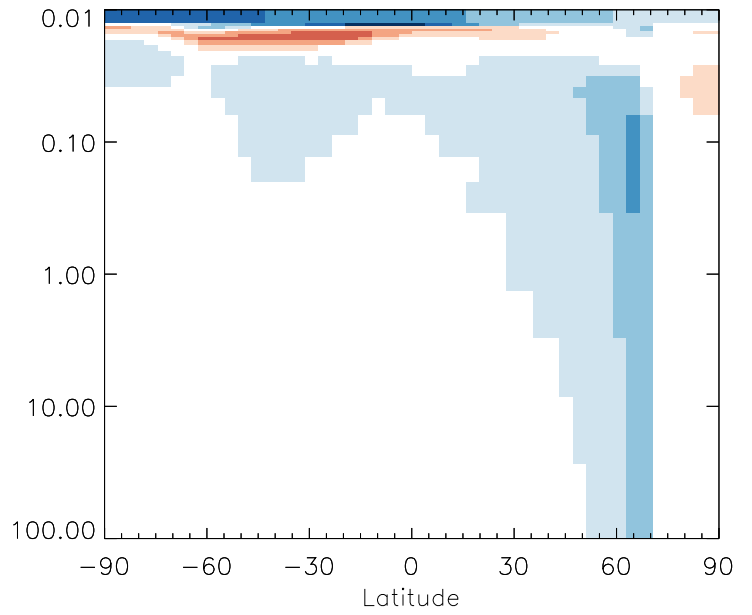
v11-01g-Run0 - v11-01d-Run1

BrCl - Strat zonal mean abs diff for Jul



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

BrCl - Strat zonal mean % diff for Jul

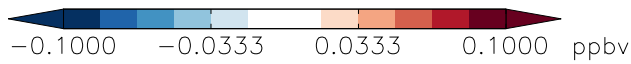
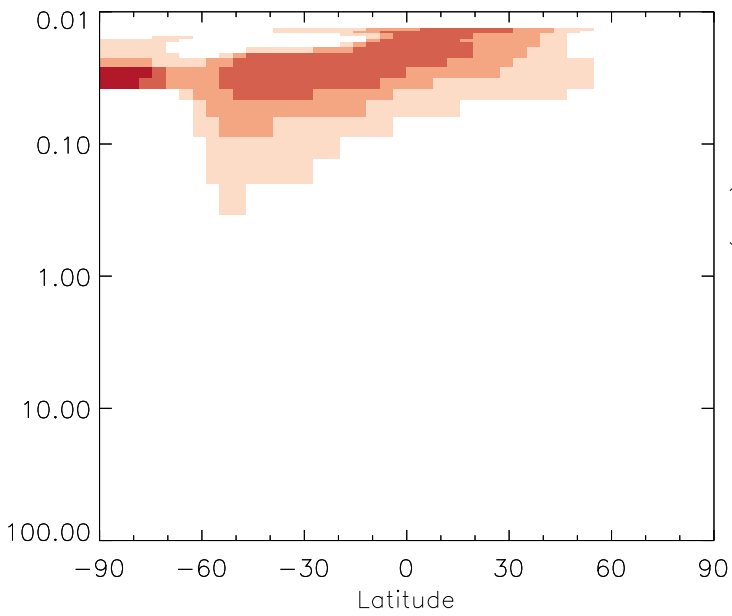




GEOS-Chem Stratospheric Zonal Difference Maps

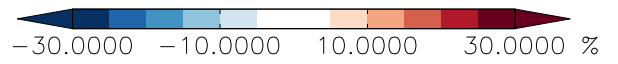
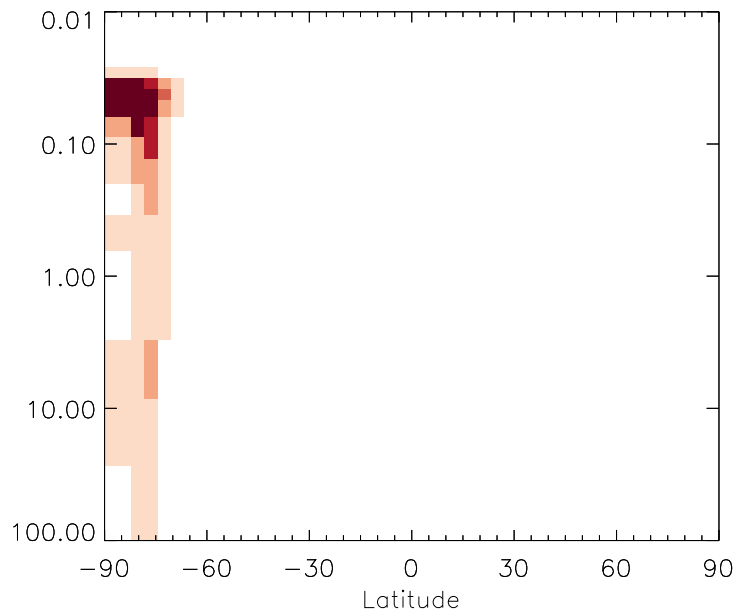
v11-01g-Run0 - v11-01f-geosp-Run0

HCl - Strat zonal mean abs diff for Jul



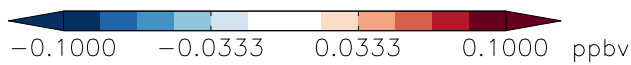
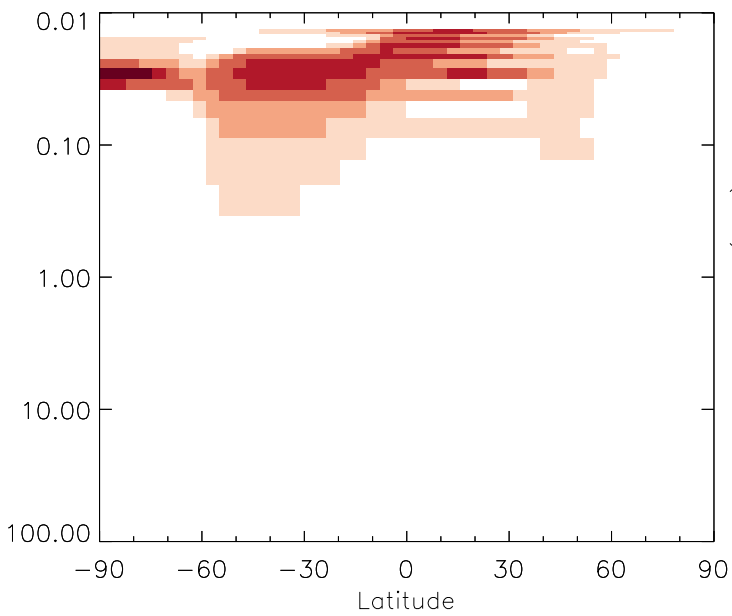
v11-01g-Run0 / v11-01f-geosp-Run0

HCl - Strat zonal mean % diff for Jul



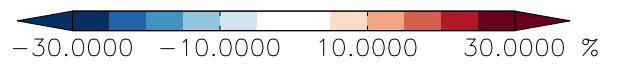
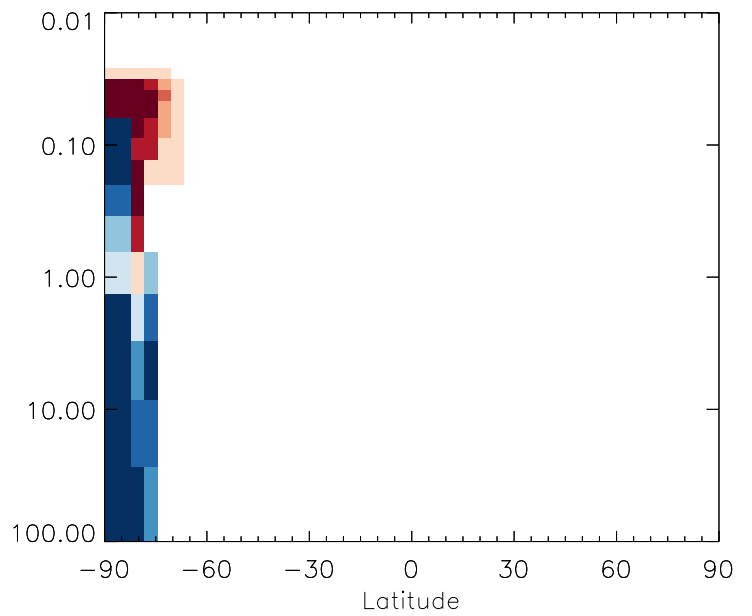
v11-01g-Run0 - v11-01d-Run1

HCl - Strat zonal mean abs diff for Jul



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

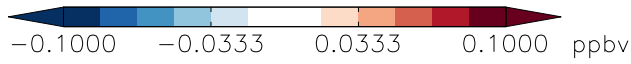
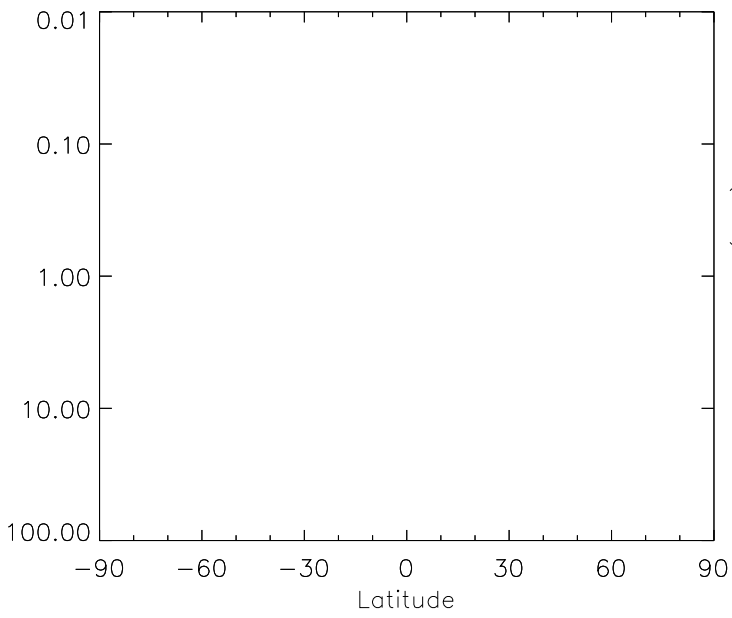
HCl - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

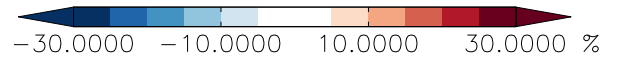
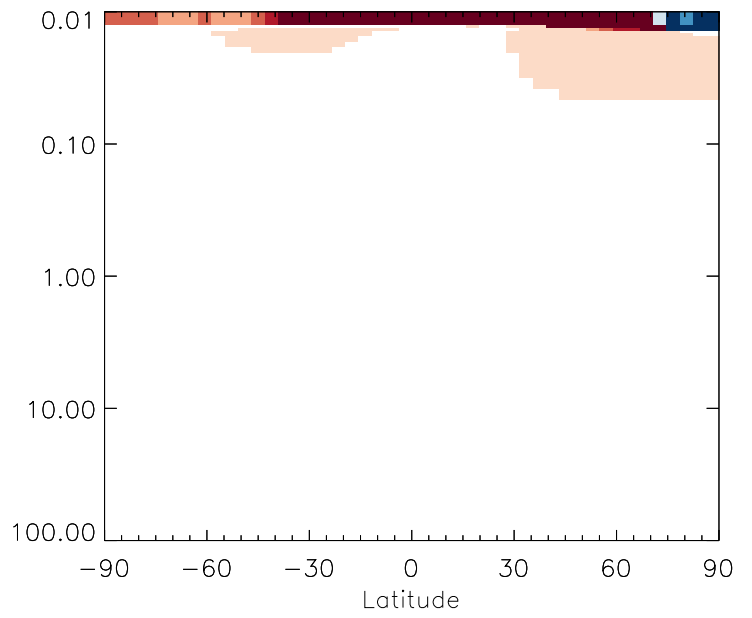
v11-01g-Run0 - v11-01f-geosfp-Run0

CCl4 - Strat zonal mean abs diff for Jul



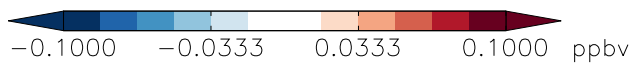
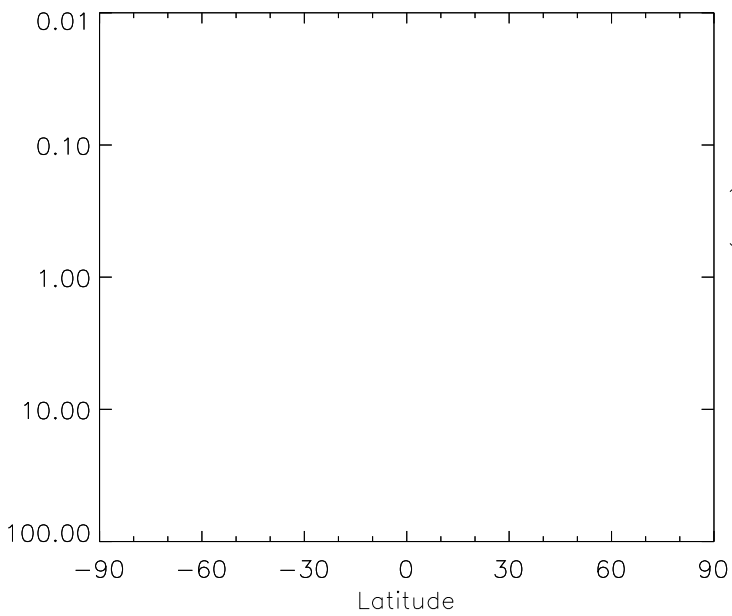
v11-01g-Run0 / v11-01f-geosfp-Run0

CCl4 - Strat zonal mean % diff for Jul



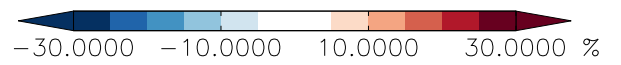
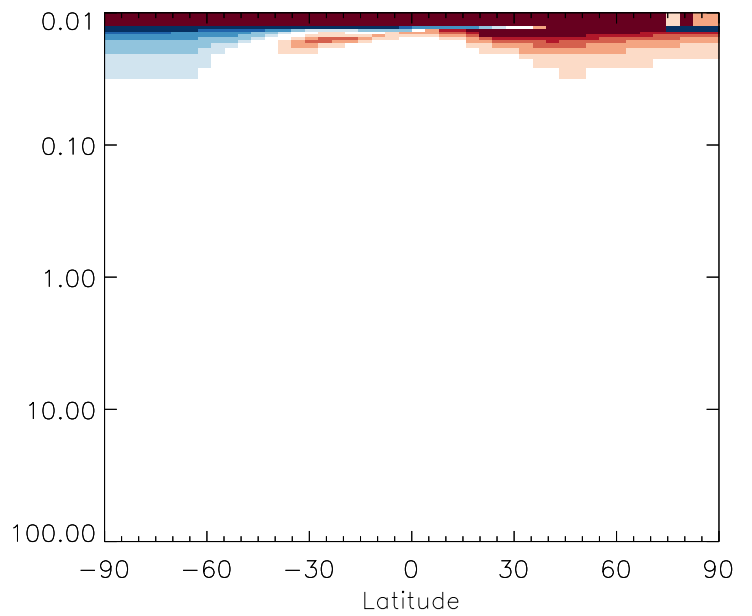
v11-01g-Run0 - v11-01d-Run1

CCl4 - Strat zonal mean abs diff for Jul



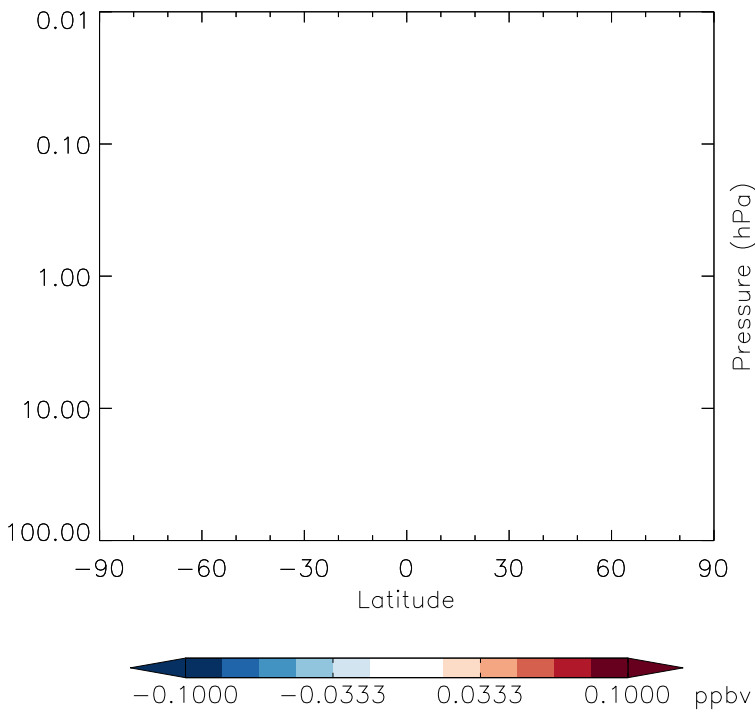
v11-01g-Run0 / v11-01d-Run1

CCl4 - Strat zonal mean % diff for Jul

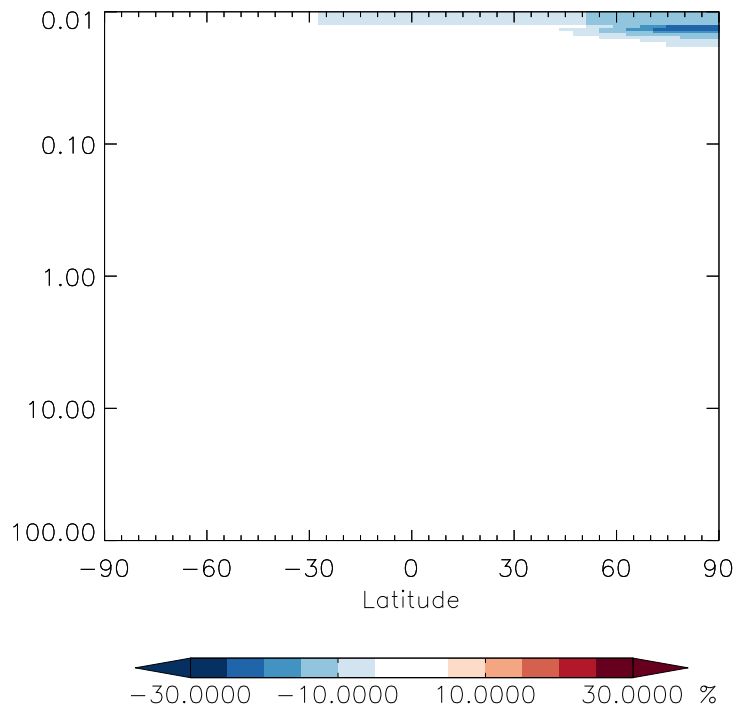


GEOS-Chem Stratospheric Zonal Difference Maps

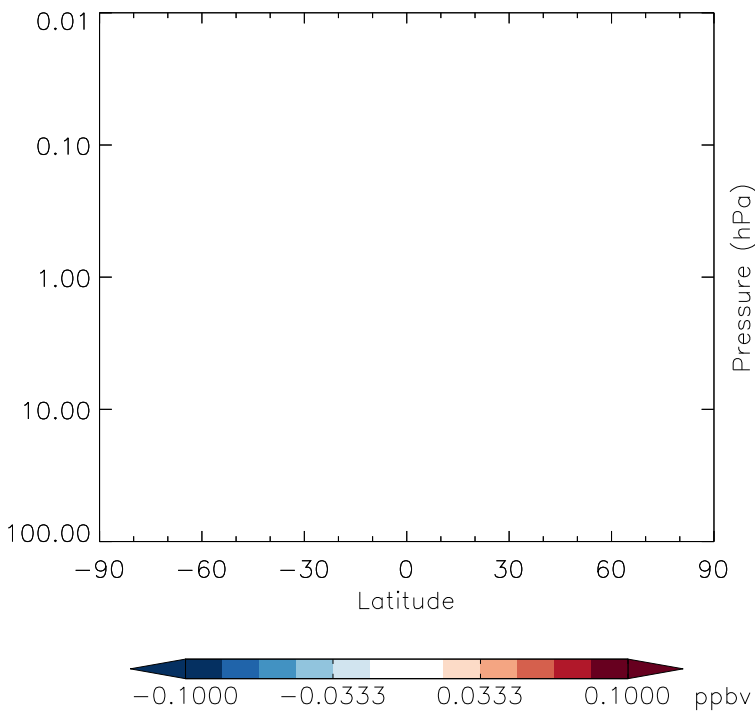
v11-01g-Run0 - v11-01f-geosfp-Run0  
CH3Cl - Strat zonal mean abs diff for Jul



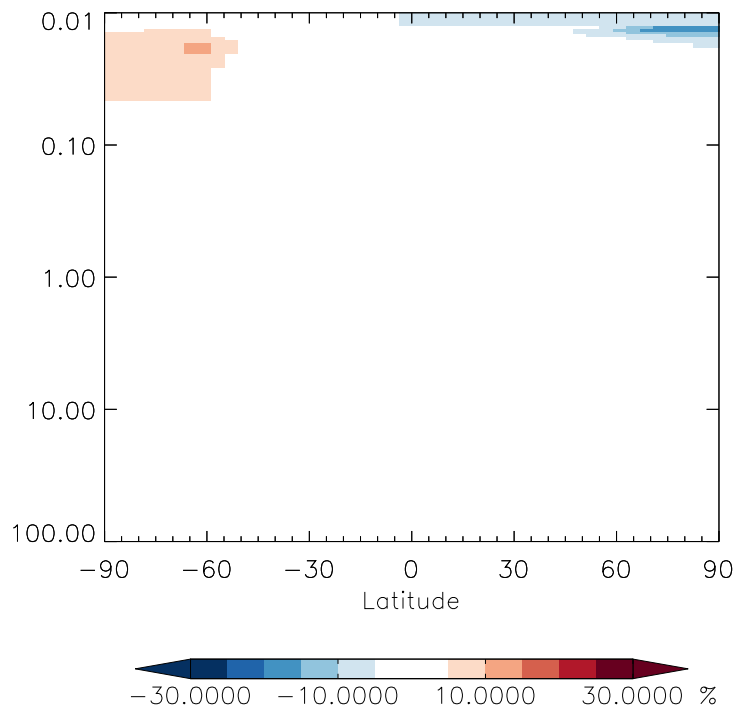
v11-01g-Run0 / v11-01f-geosfp-Run0  
CH3Cl - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CH3Cl - Strat zonal mean abs diff for Jul



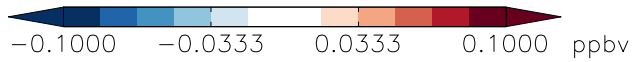
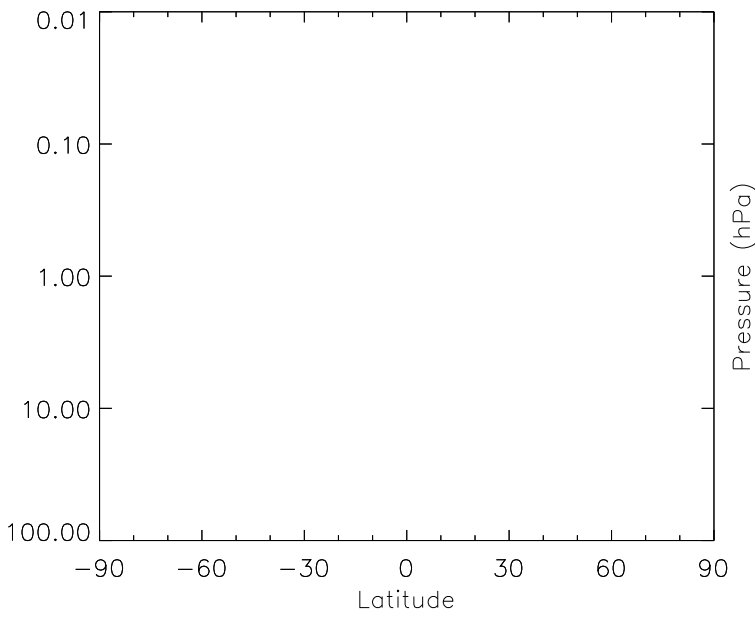
v11-01g-Run0 / v11-01d-Run1  
CH3Cl - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

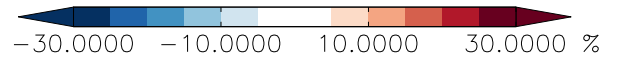
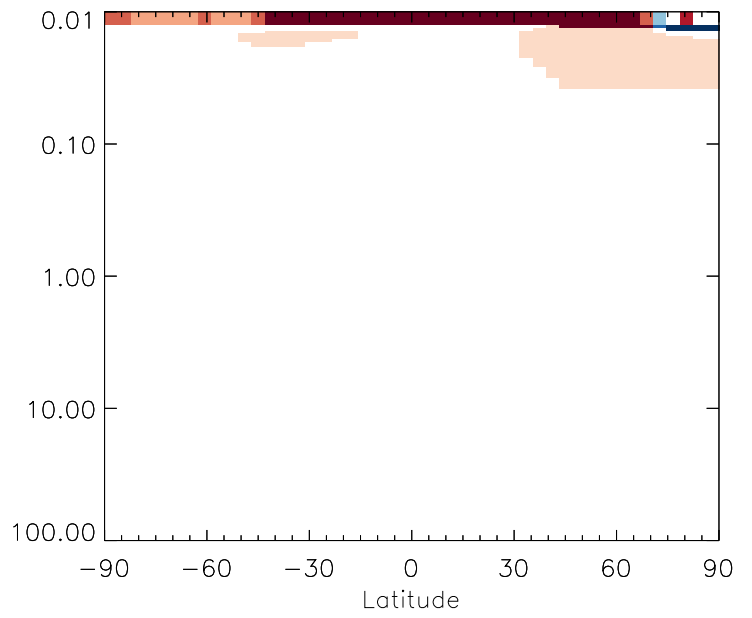
v11-01g-Run0 - v11-01f-geosfp-Run0

CH<sub>3</sub>CCl<sub>3</sub> - Strat zonal mean abs diff for Jul



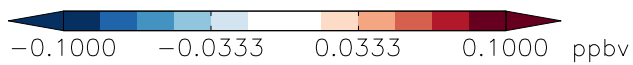
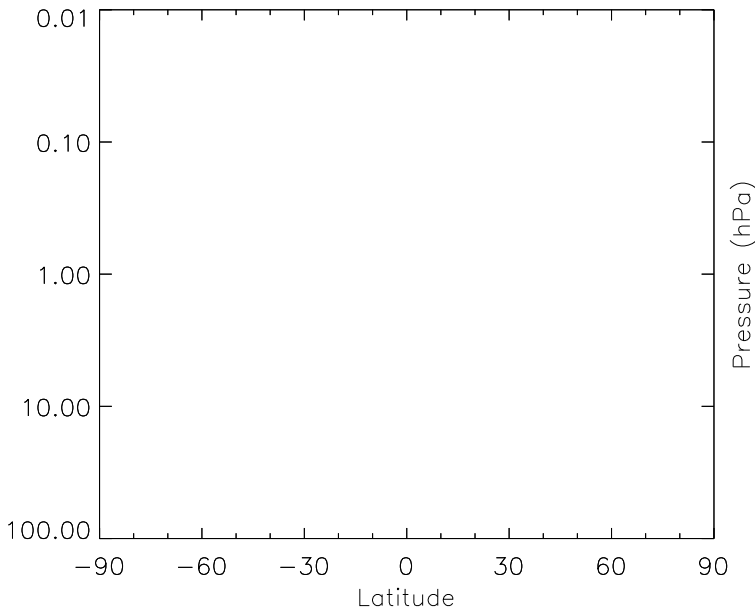
v11-01g-Run0 / v11-01f-geosfp-Run0

CH<sub>3</sub>CCl<sub>3</sub> - Strat zonal mean % diff for Jul



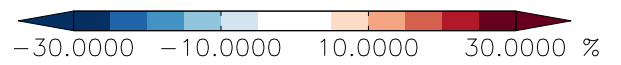
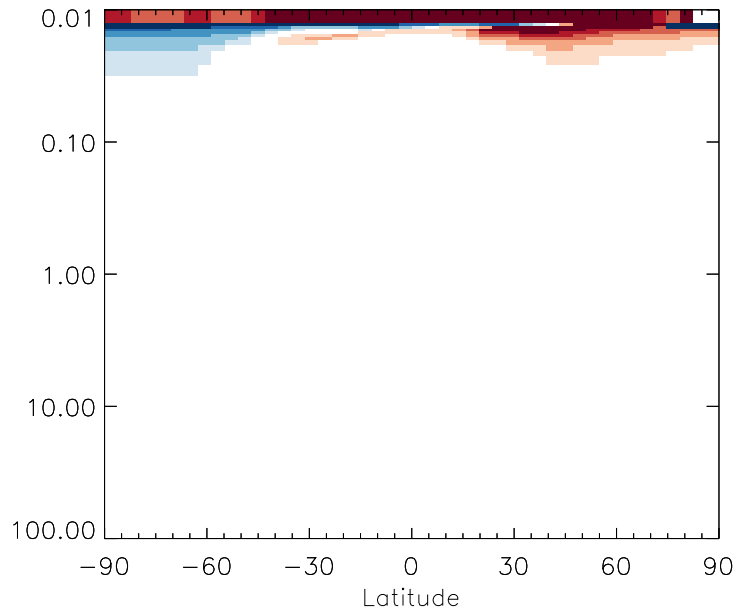
v11-01g-Run0 - v11-01d-Run1

CH<sub>3</sub>CCl<sub>3</sub> - Strat zonal mean abs diff for Jul



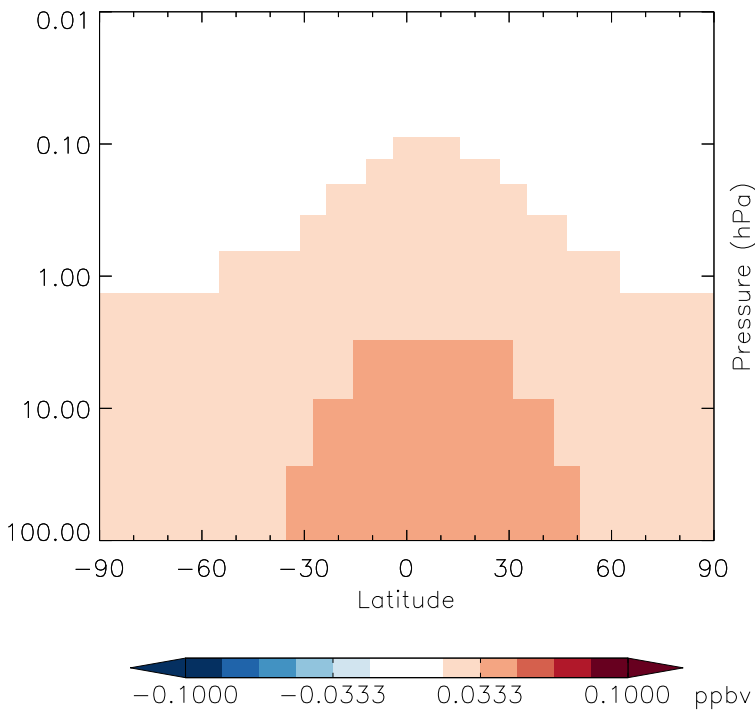
v11-01g-Run0 / v11-01d-Run1

CH<sub>3</sub>CCl<sub>3</sub> - Strat zonal mean % diff for Jul

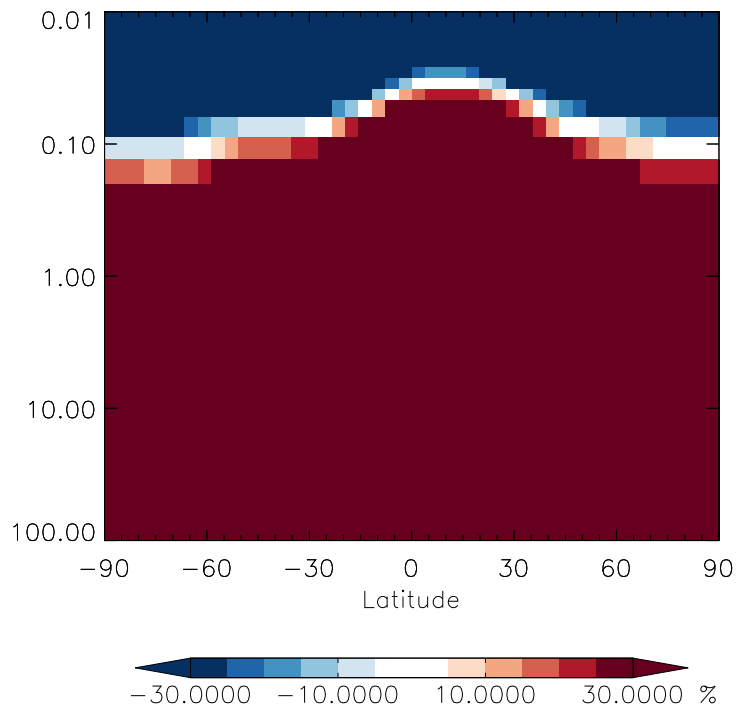


GEOS-Chem Stratospheric Zonal Difference Maps

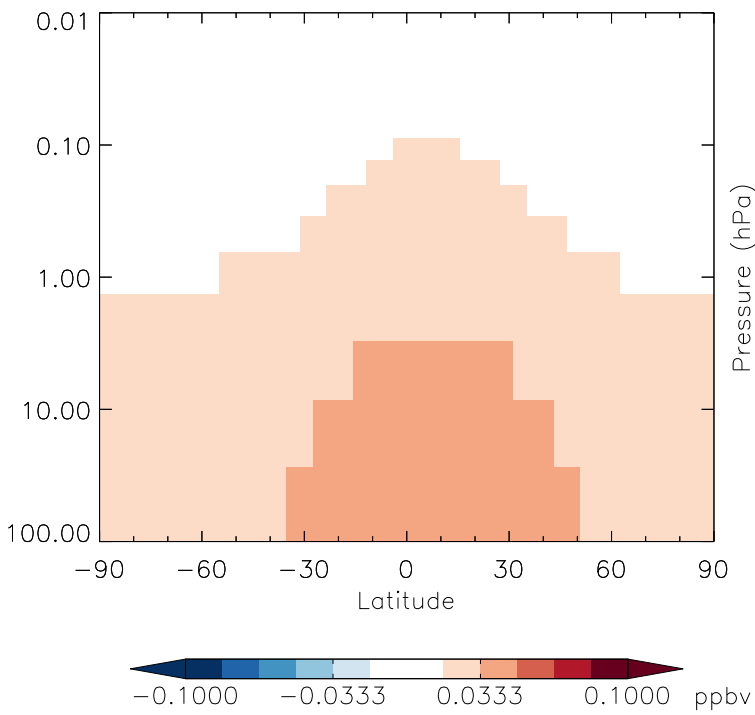
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC113 - Strat zonal mean abs diff for Jul



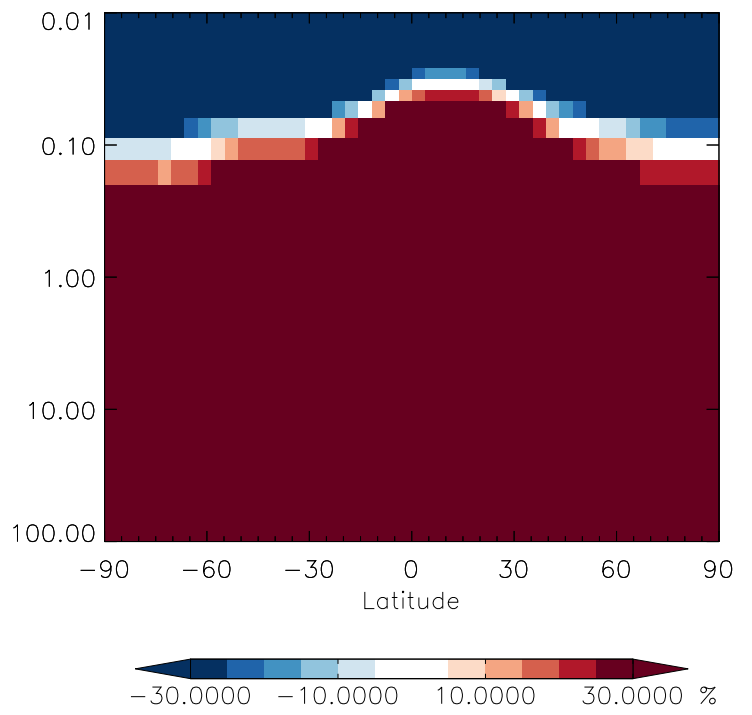
v11-01g-Run0 / v11-01f-geosfp-Run0  
CFC113 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CFC113 - Strat zonal mean abs diff for Jul

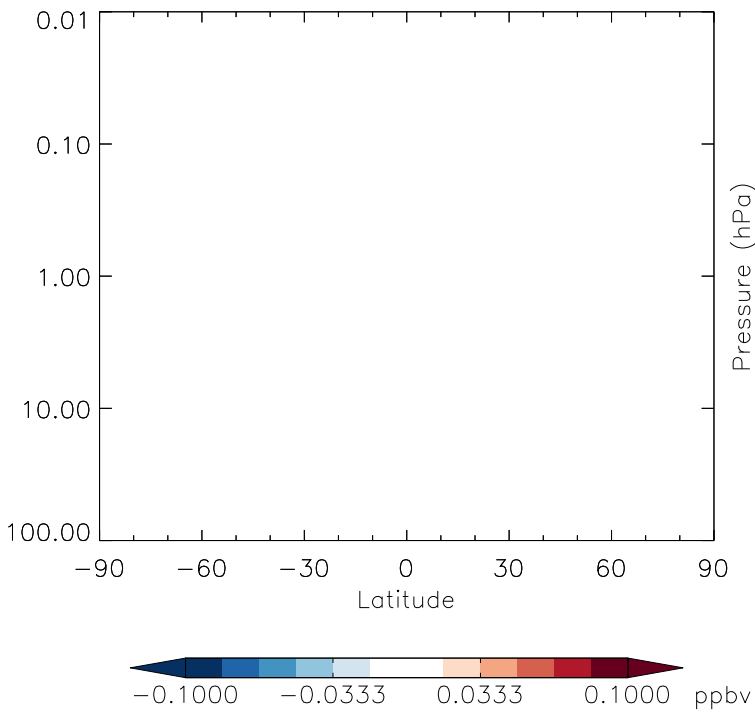


v11-01g-Run0 / v11-01d-Run1  
CFC113 - Strat zonal mean % diff for Jul

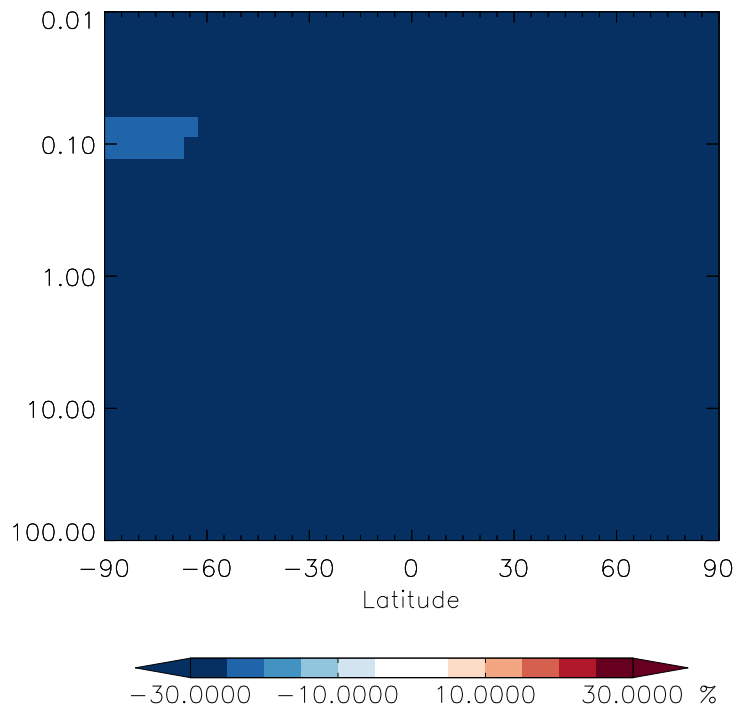


GEOS-Chem Stratospheric Zonal Difference Maps

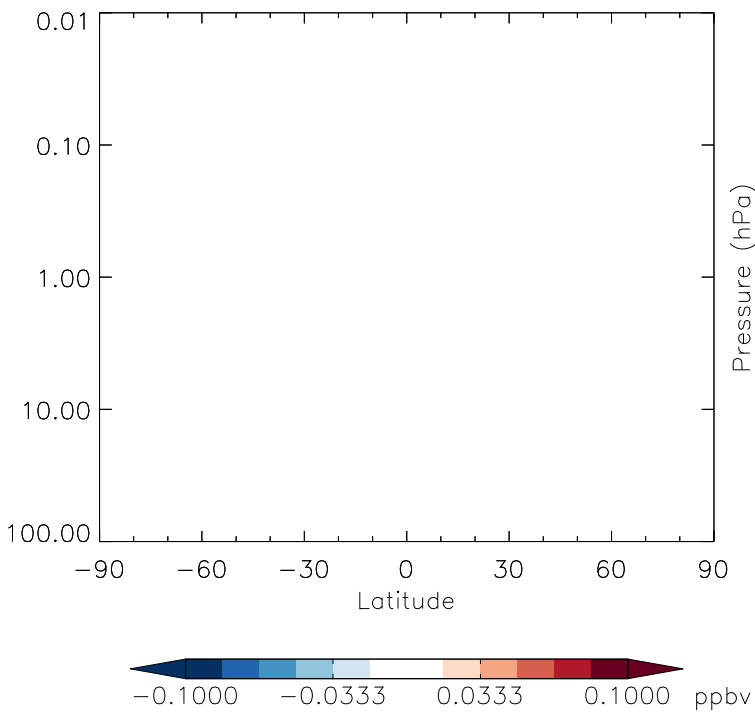
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CFC114 - Strat zonal mean abs diff for Jul



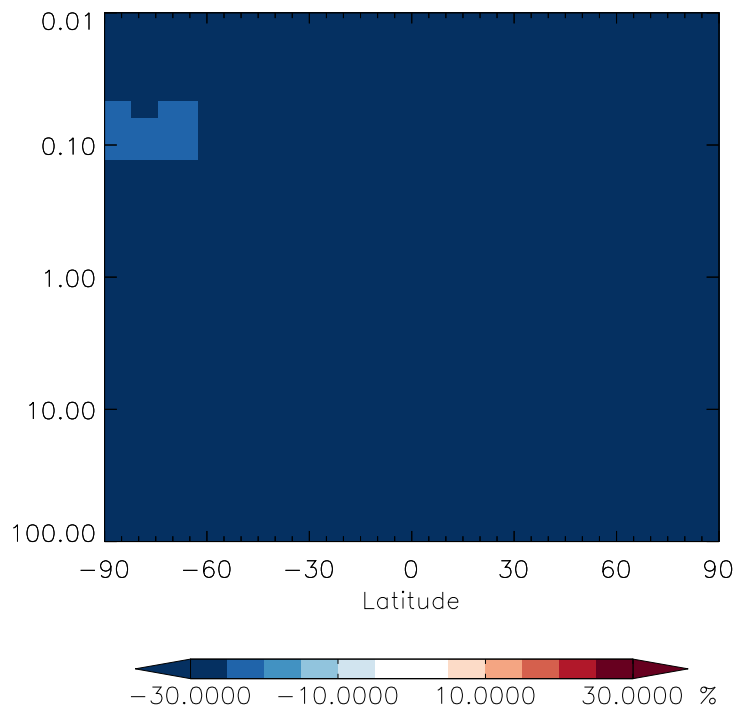
v11-01g-Run0 / v11-01f-geosfp-Run0  
CFC114 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CFC114 - Strat zonal mean abs diff for Jul

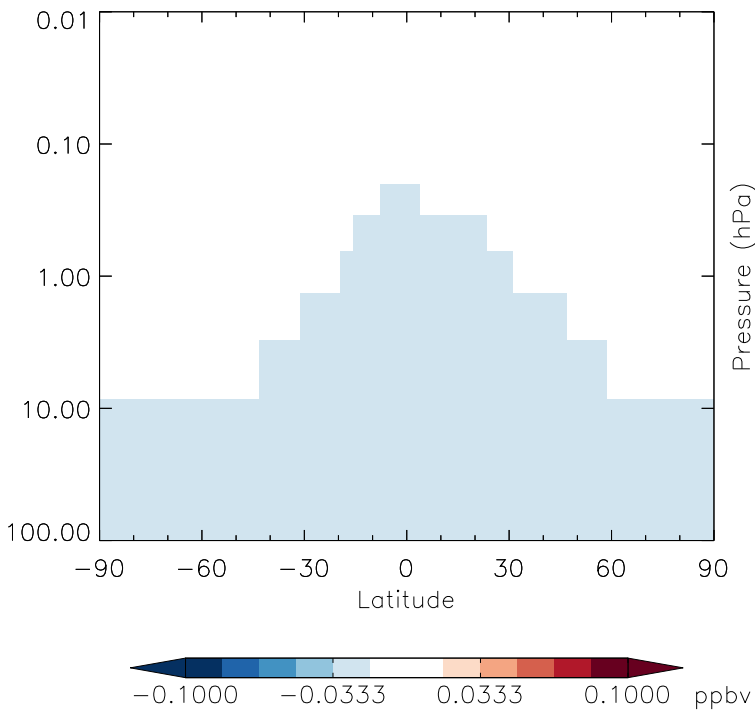


v11-01g-Run0 / v11-01d-Run1  
CFC114 - Strat zonal mean % diff for Jul

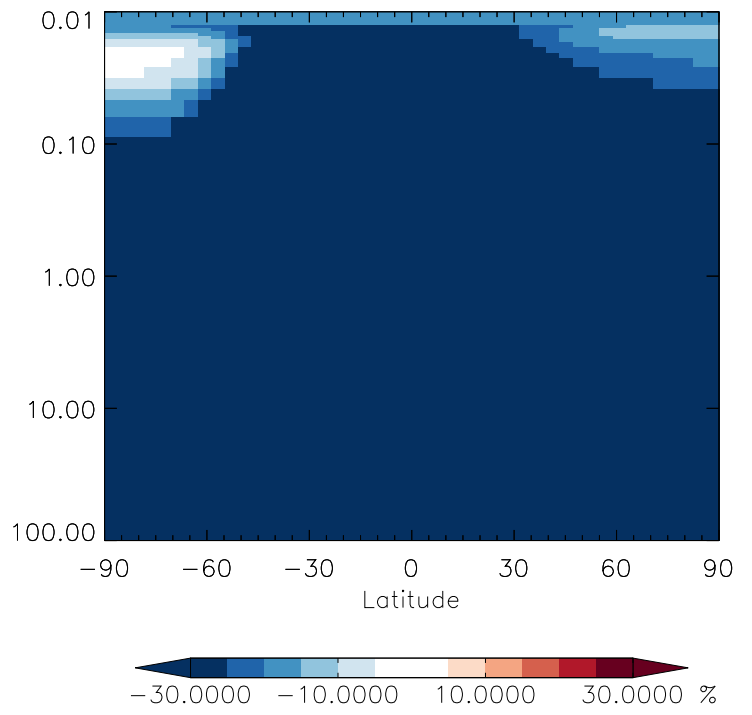


GEOS-Chem Stratospheric Zonal Difference Maps

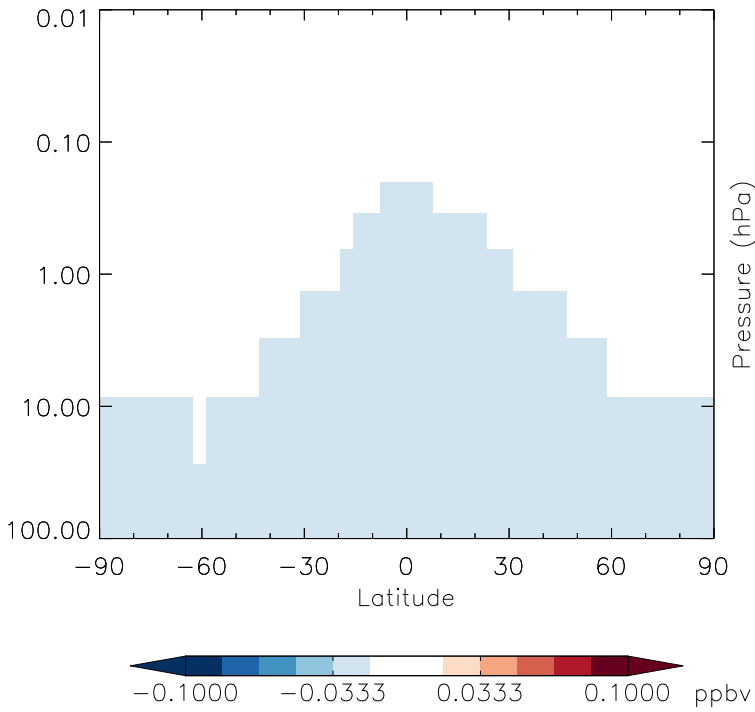
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC115 - Strat zonal mean abs diff for Jul



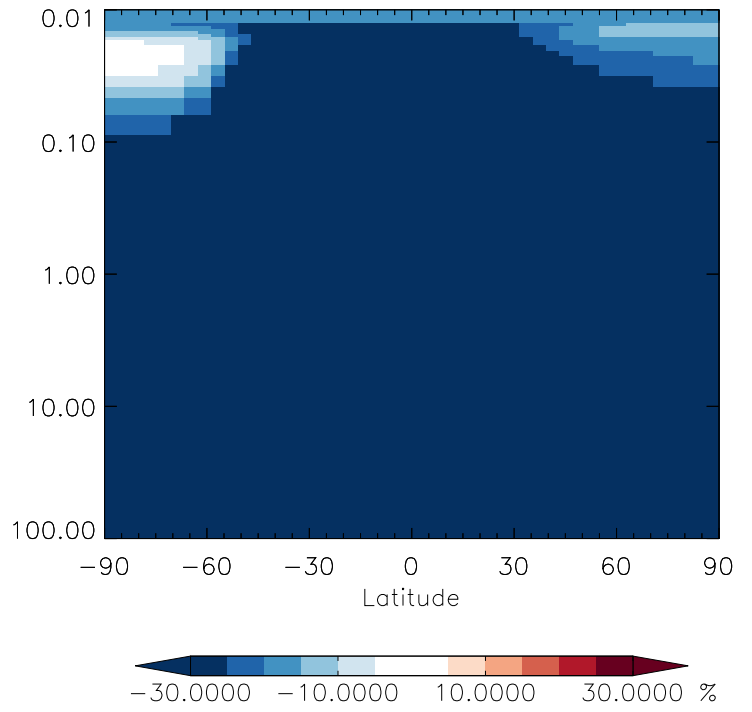
v11-01g-Run0 / v11-01f-geosfp-Run0  
CFC115 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CFC115 - Strat zonal mean abs diff for Jul



v11-01g-Run0 / v11-01d-Run1  
CFC115 - Strat zonal mean % diff for Jul



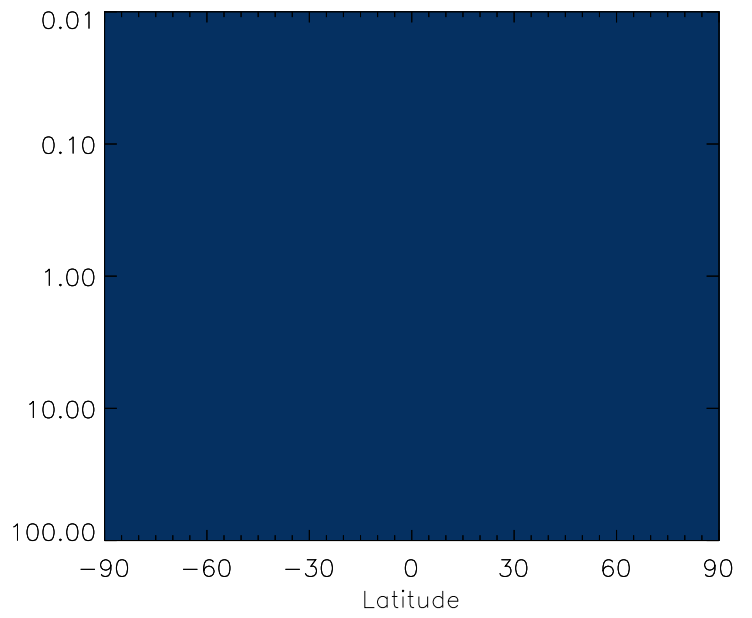
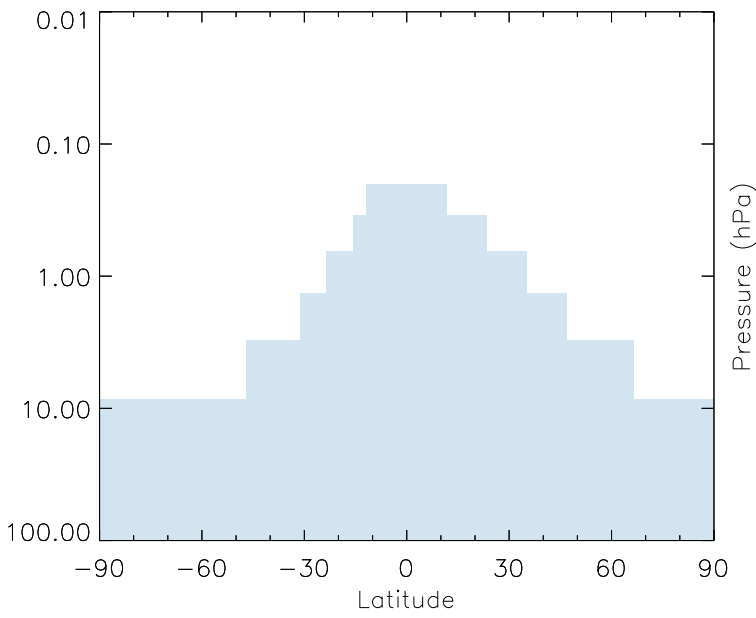
GEOS-Chem Stratospheric Zonal Difference Maps

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

HCFC123 - Strat zonal mean abs diff for Jul

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

HCFC123 - Strat zonal mean % diff for Jul

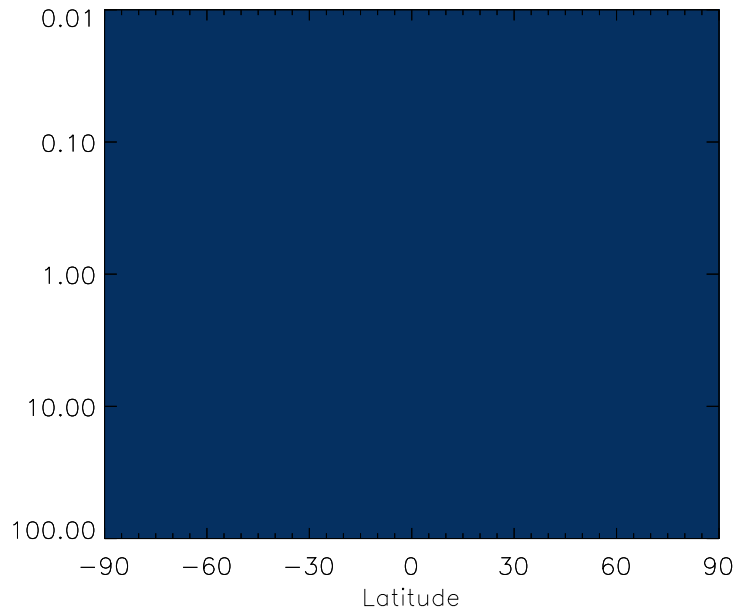
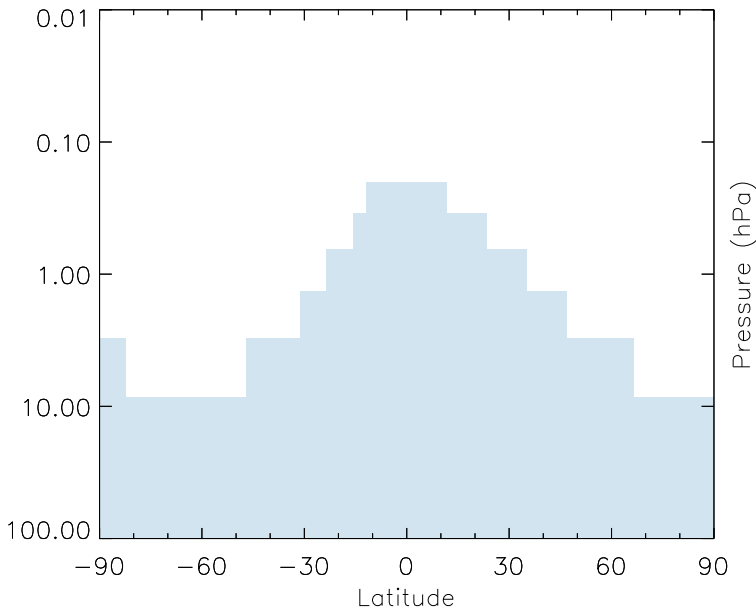


v11-01g-Run0 - v11-01d-Run1

HCFC123 - Strat zonal mean abs diff for Jul

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

HCFC123 - Strat zonal mean % diff for Jul

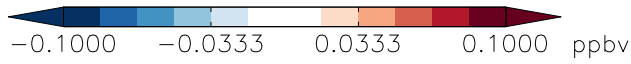
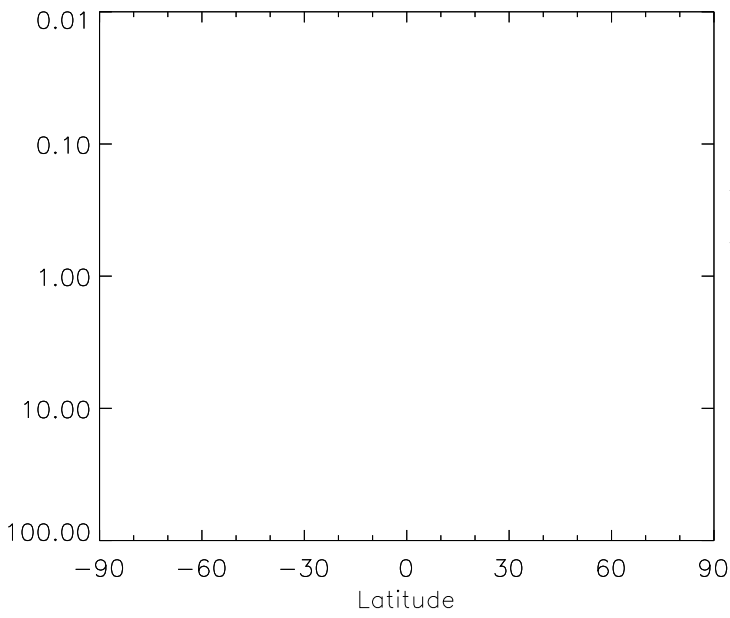




GEOS-Chem Stratospheric Zonal Difference Maps

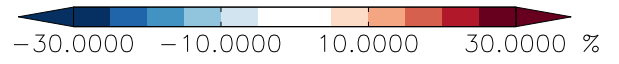
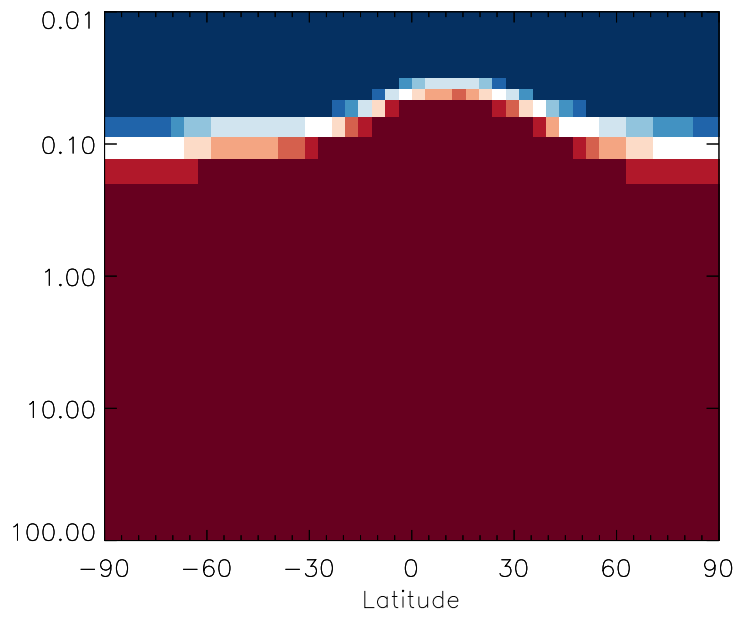
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC141b - Strat zonal mean abs diff for Jul



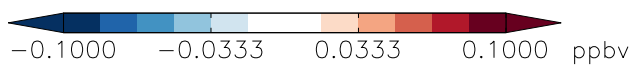
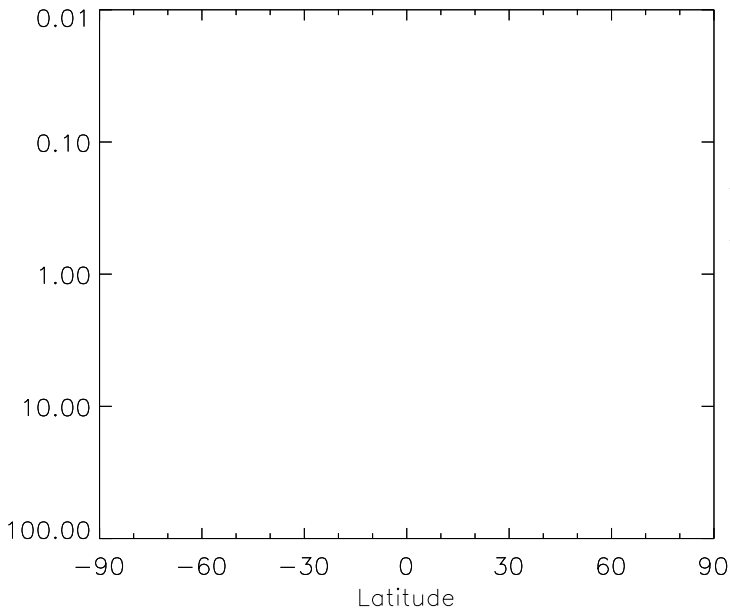
v11-01g-Run0 / v11-01f-geosfp-Run0

HCFC141b - Strat zonal mean % diff for Jul



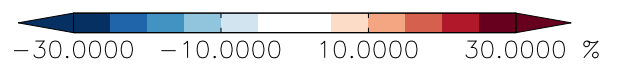
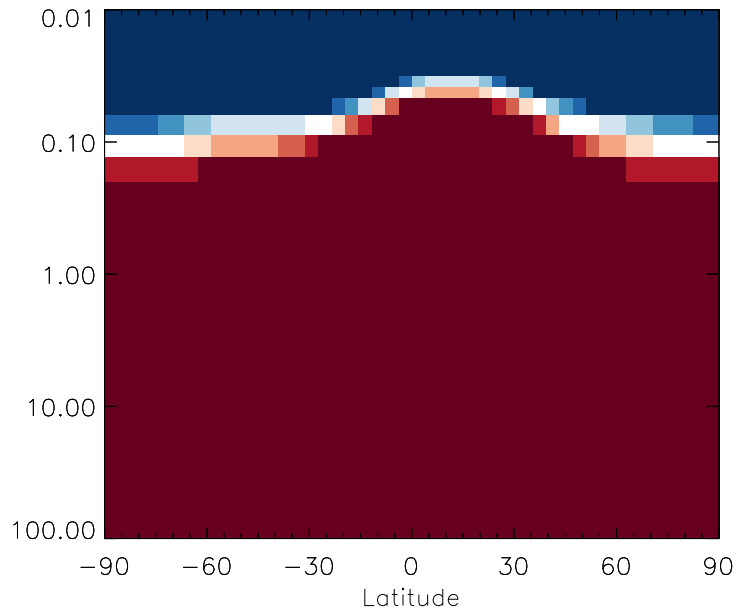
v11-01g-Run0 - v11-01d-Run1

HCFC141b - Strat zonal mean abs diff for Jul



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

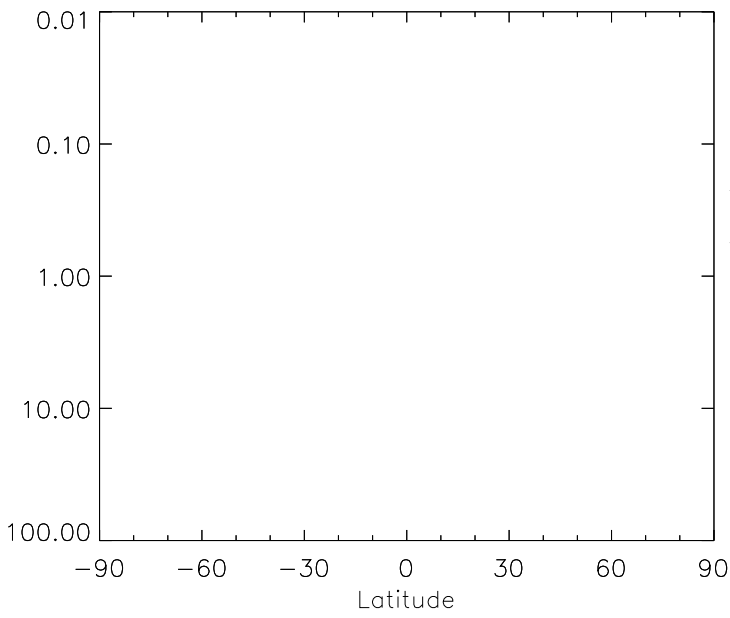
HCFC141b - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

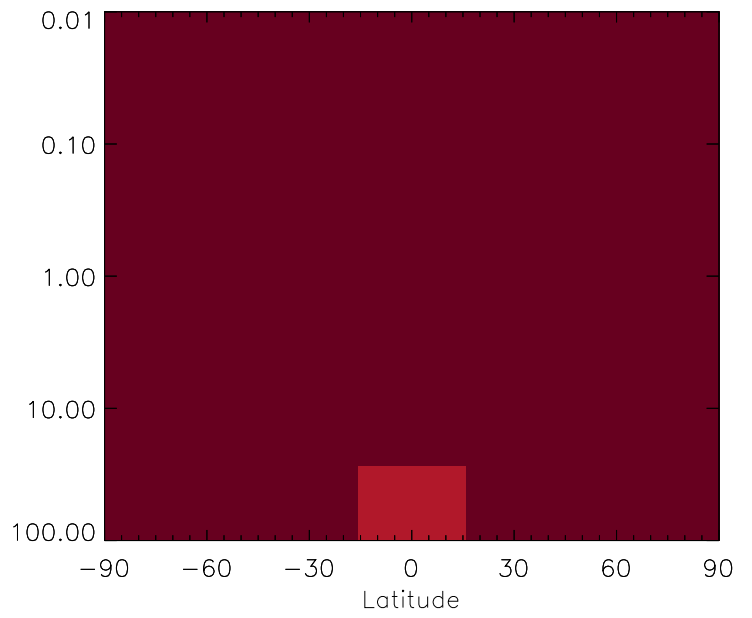
v11-01g-Run0 - v11-01f-geosfp-Run0

HCFC142b - Strat zonal mean abs diff for Jul



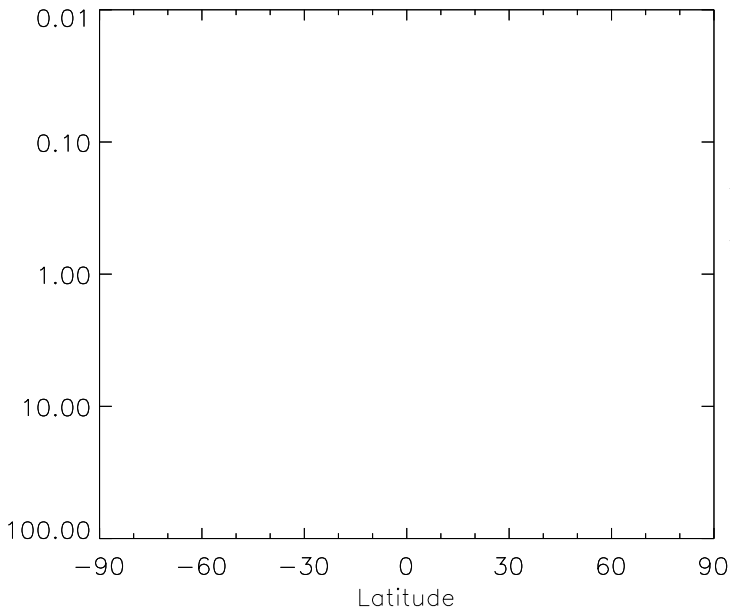
v11-01g-Run0 / v11-01f-geosfp-Run0

HCFC142b - Strat zonal mean % diff for Jul



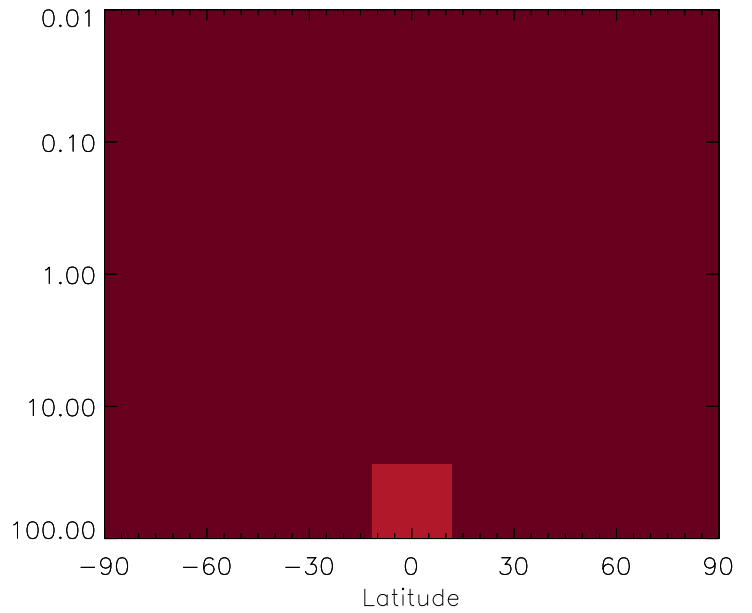
v11-01g-Run0 - v11-01d-Run1

HCFC142b - Strat zonal mean abs diff for Jul



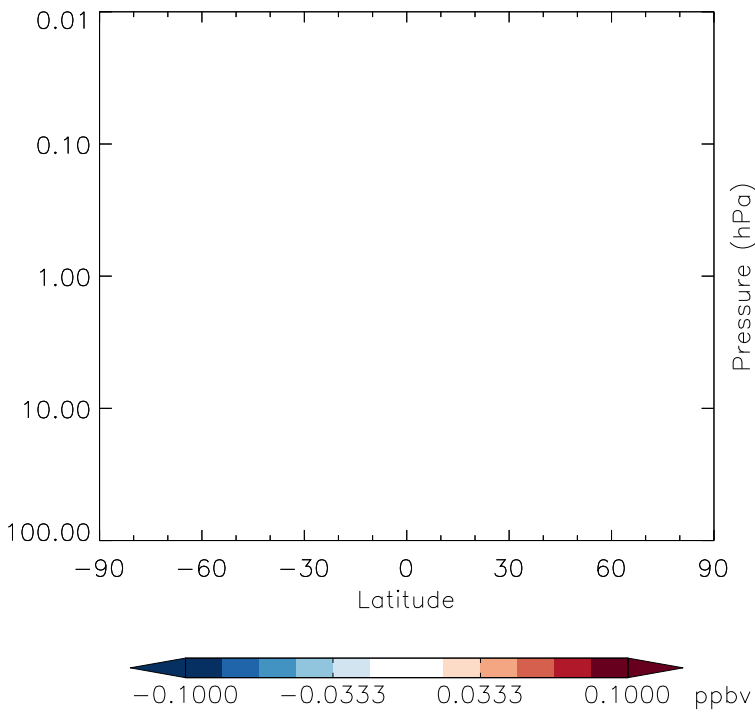
v11-01g-Run0 / v11-01d-Run1

HCFC142b - Strat zonal mean % diff for Jul

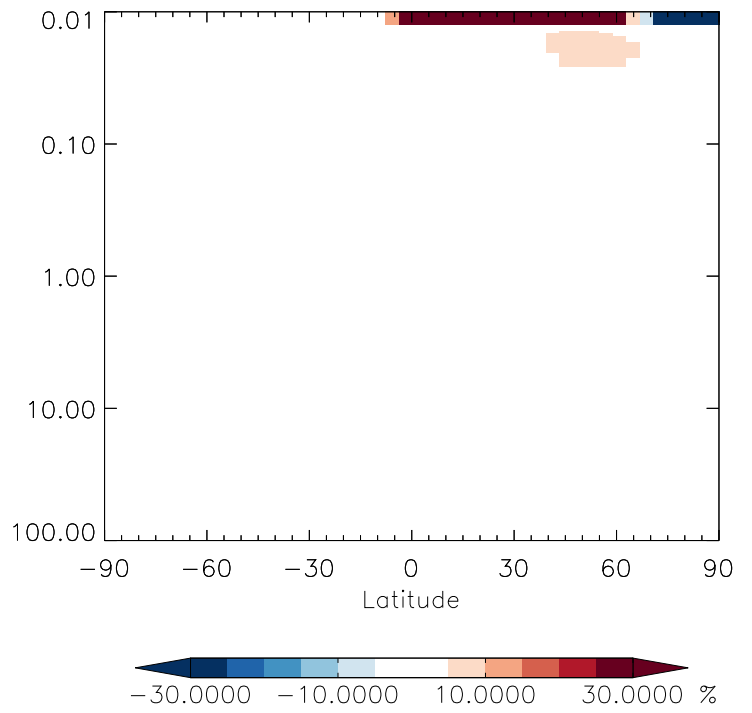


GEOS-Chem Stratospheric Zonal Difference Maps

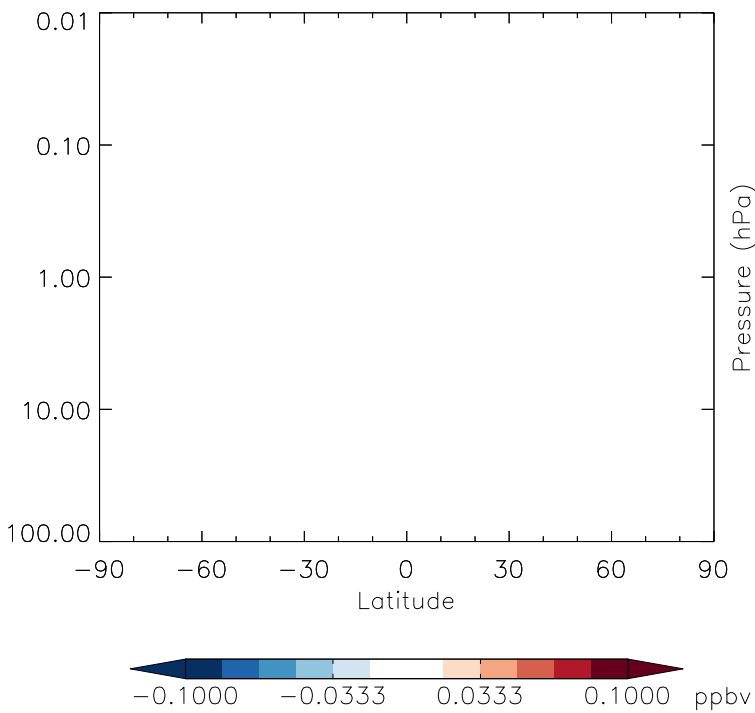
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC11 - Strat zonal mean abs diff for Jul



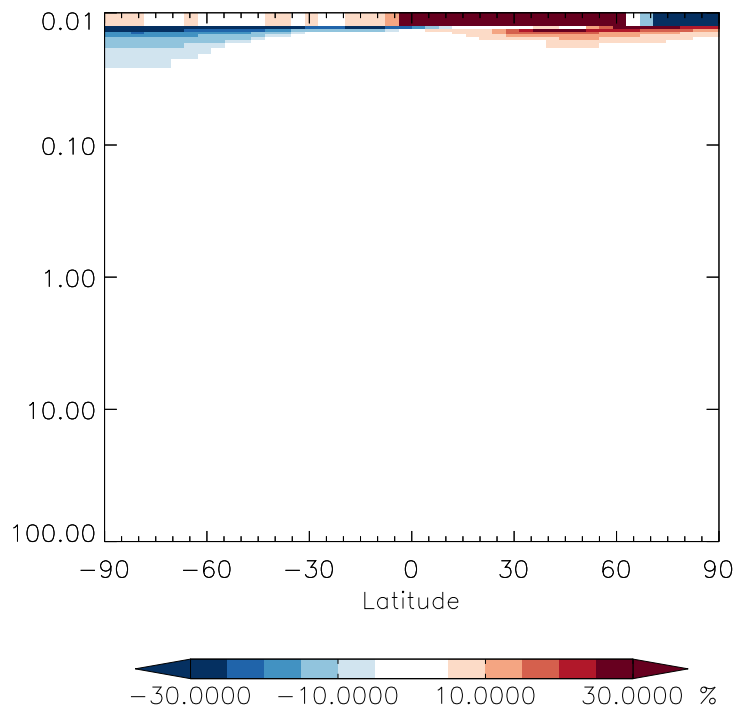
v11-01g-Run0 / v11-01f-geosfp-Run0  
CFC11 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CFC11 - Strat zonal mean abs diff for Jul

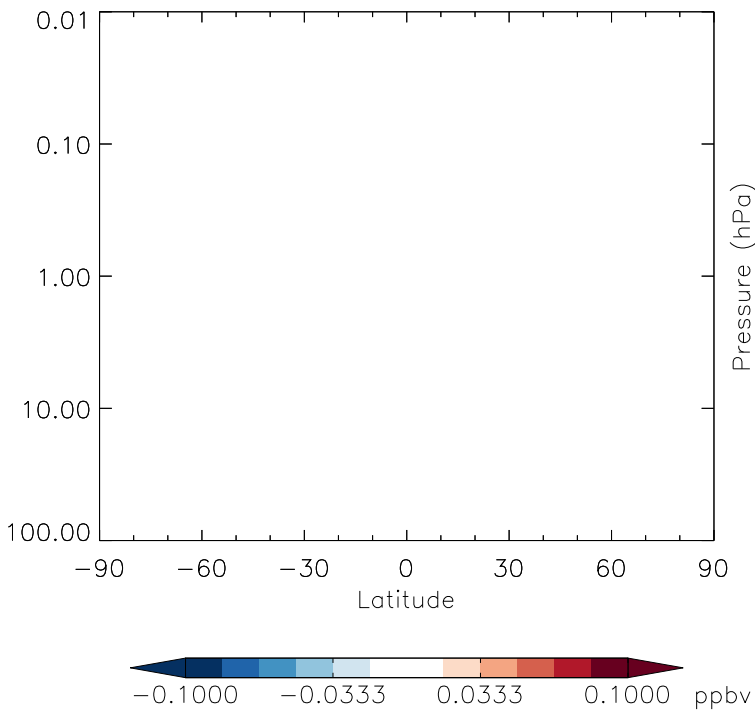


v11-01g-Run0 / v11-01d-Run1  
CFC11 - Strat zonal mean % diff for Jul

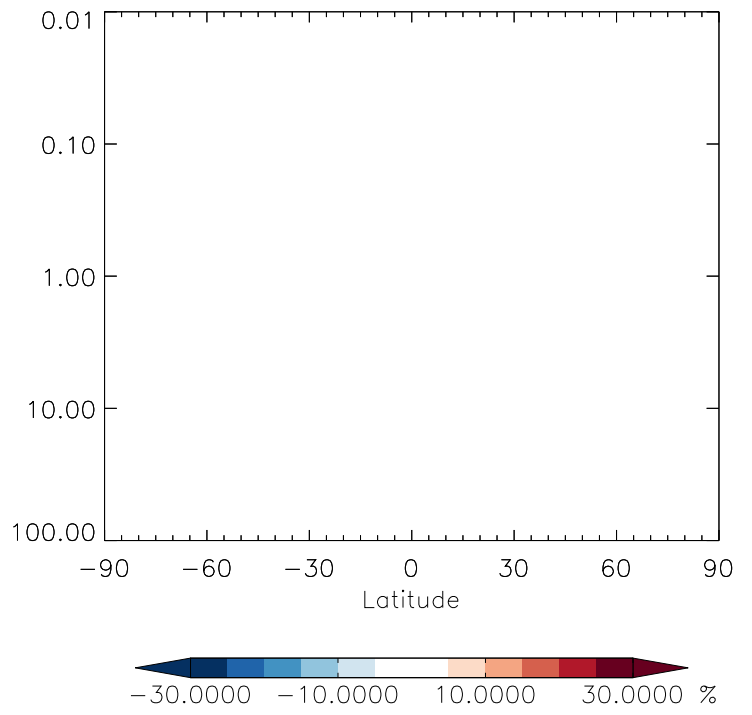


GEOS-Chem Stratospheric Zonal Difference Maps

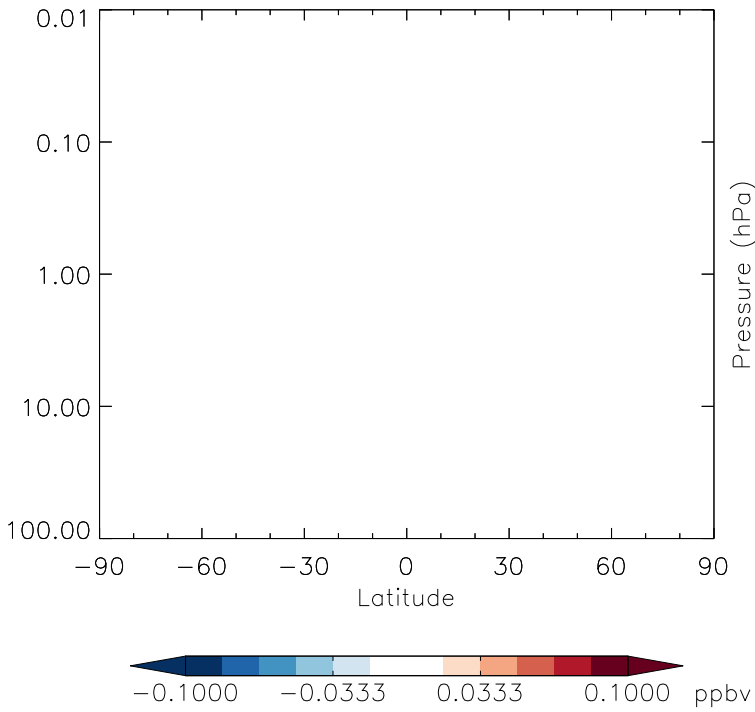
v11-01g-Run0 - v11-01f-geosfp-Run0  
CFC12 - Strat zonal mean abs diff for Jul



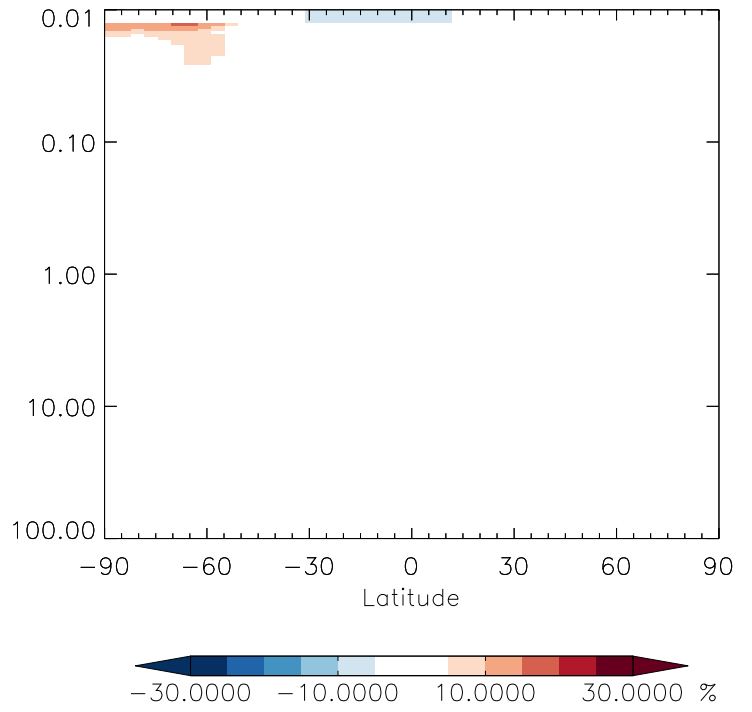
v11-01g-Run0 / v11-01f-geosfp-Run0  
CFC12 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
CFC12 - Strat zonal mean abs diff for Jul

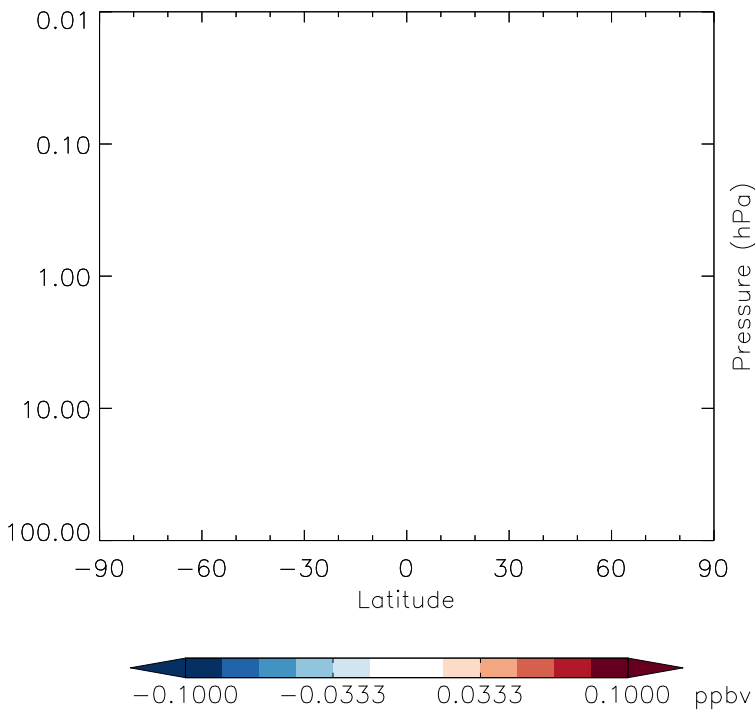


v11-01g-Run0 / v11-01d-Run1  
CFC12 - Strat zonal mean % diff for Jul

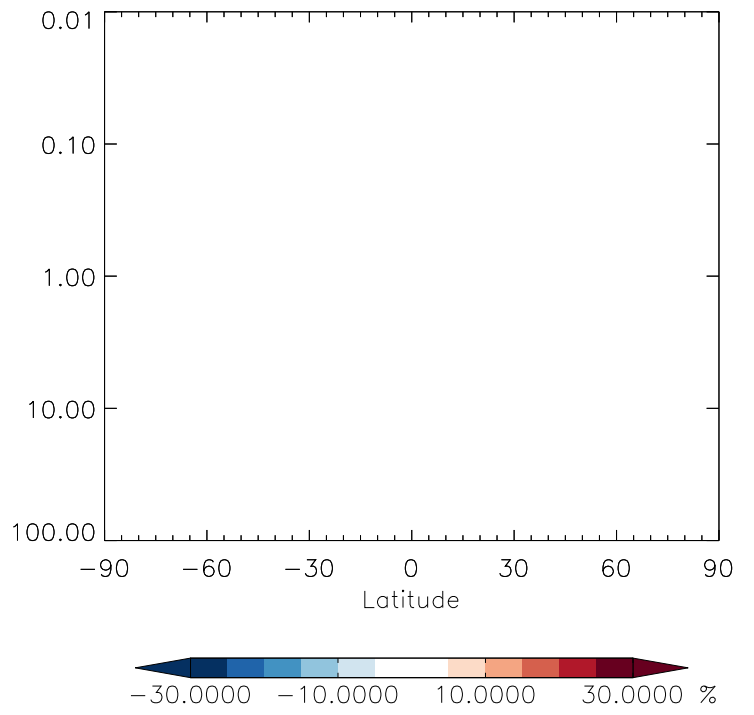


GEOS-Chem Stratospheric Zonal Difference Maps

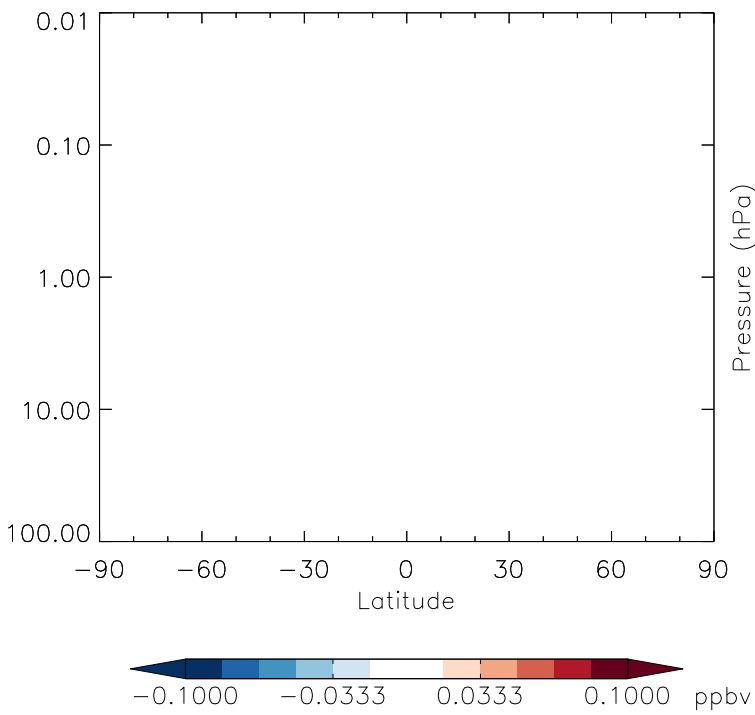
v11-01g-Run0 - v11-01f-geosfp-Run0  
HCFC22 - Strat zonal mean abs diff for Jul



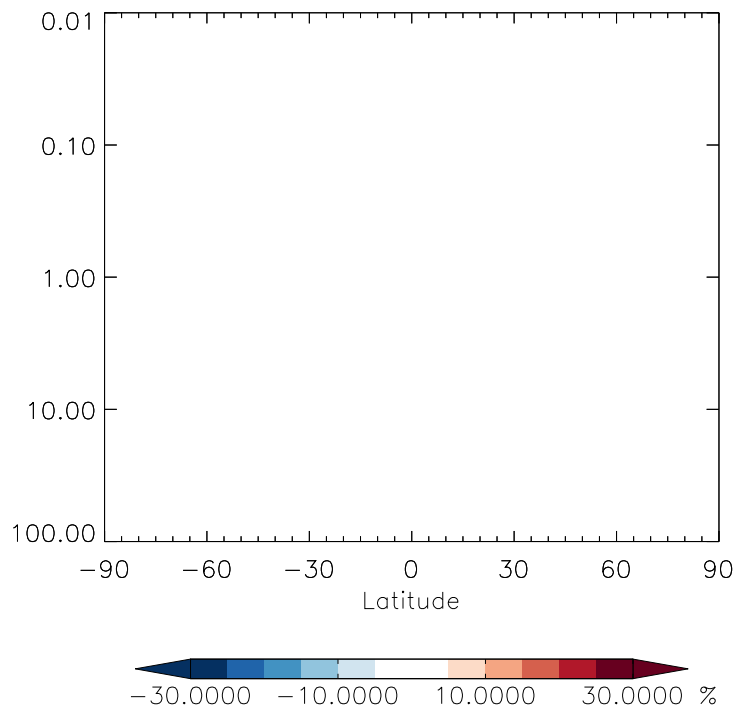
v11-01g-Run0 / v11-01f-geosfp-Run0  
HCFC22 - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
HCFC22 - Strat zonal mean abs diff for Jul



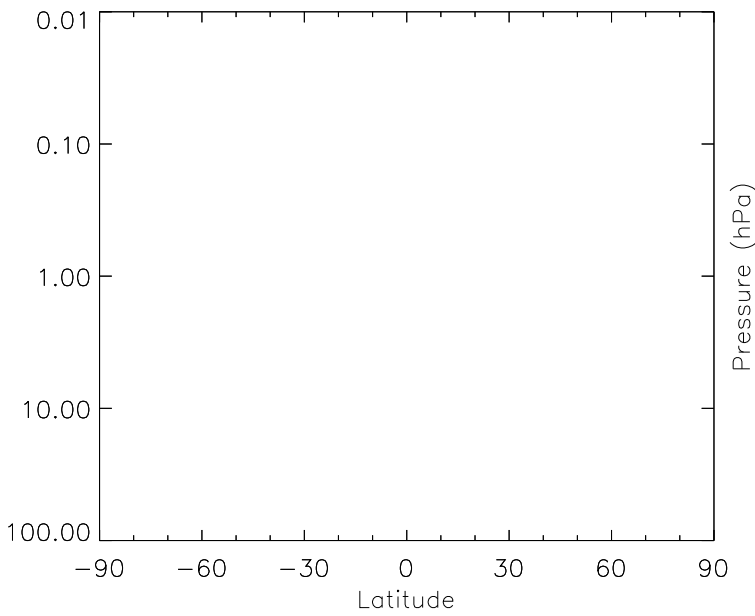
v11-01g-Run0 / v11-01d-Run1  
HCFC22 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

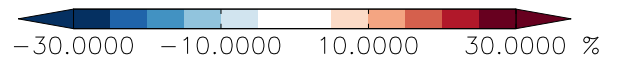
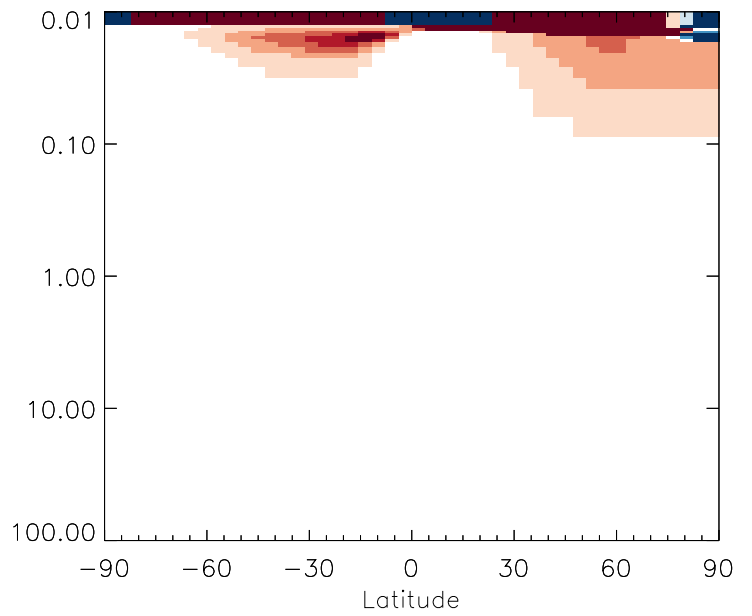
v11-01g-Run0 - v11-01f-geosfp-Run0

H1211 - Strat zonal mean abs diff for Jul



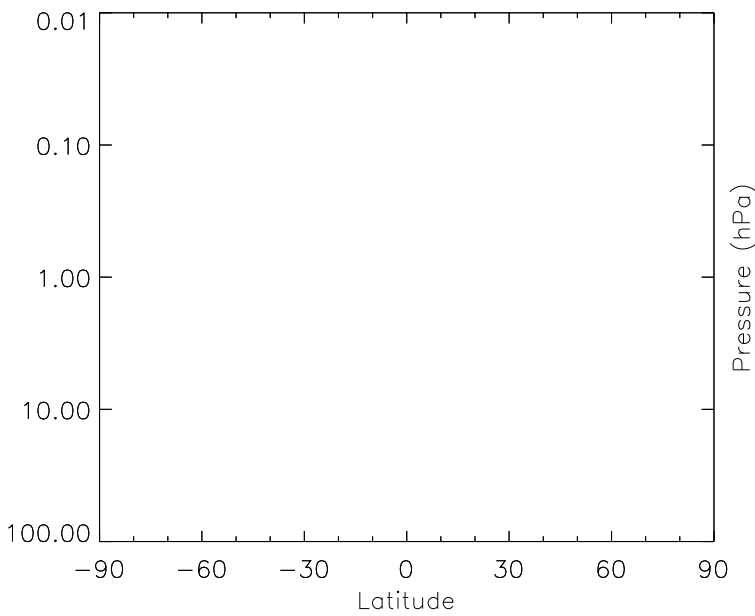
v11-01g-Run0 / v11-01f-geosfp-Run0

H1211 - Strat zonal mean % diff for Jul



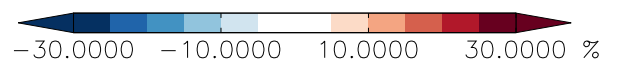
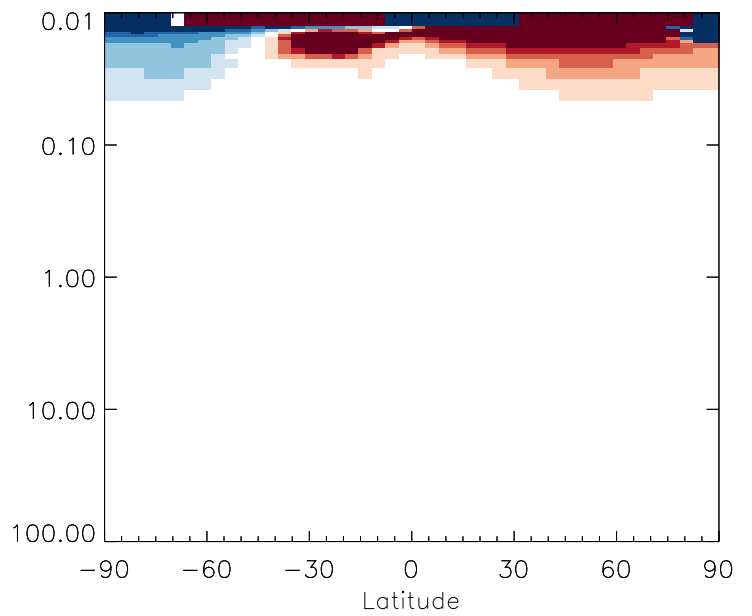
v11-01g-Run0 - v11-01d-Run1

H1211 - Strat zonal mean abs diff for Jul



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

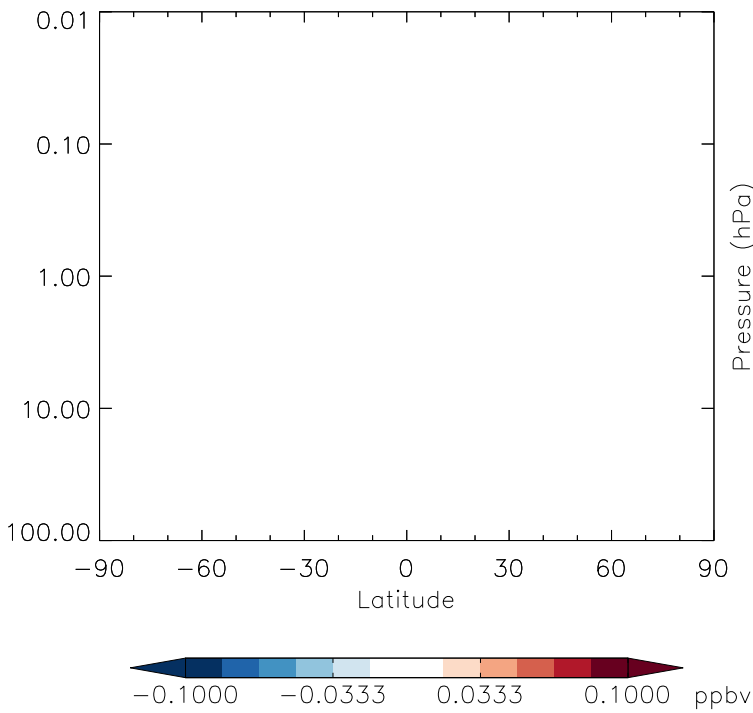
H1211 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

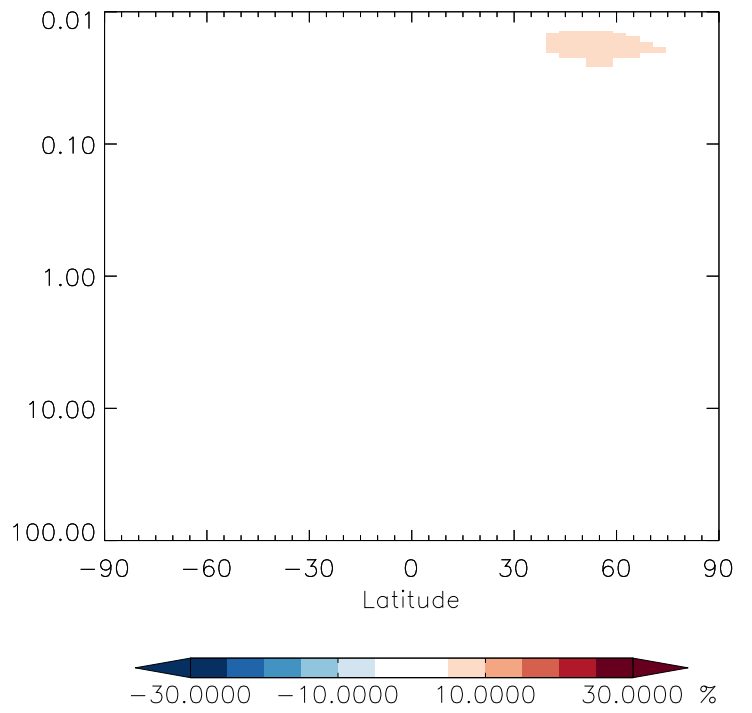
v11-01g-Run0 - v11-01f-geosfp-Run0

H1301 - Strat zonal mean abs diff for Jul



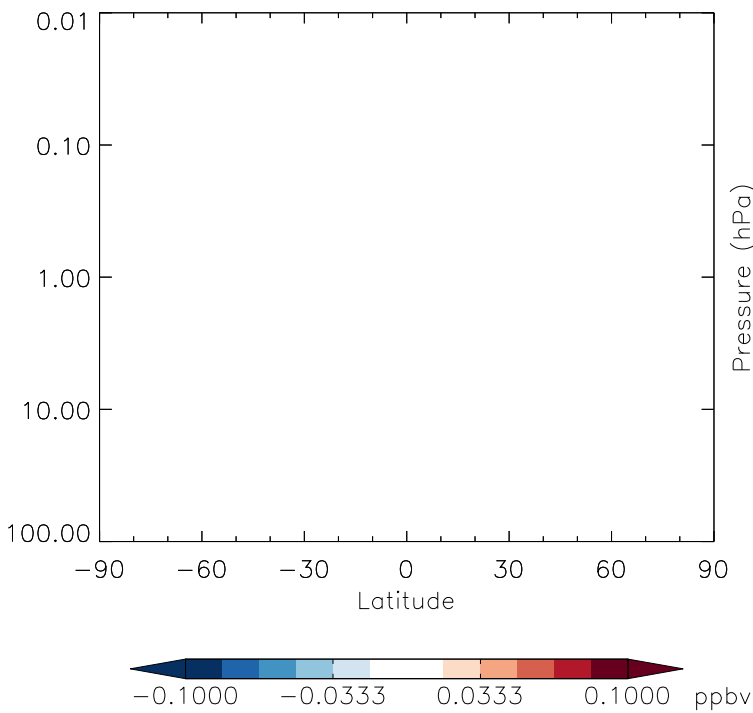
v11-01g-Run0 / v11-01f-geosfp-Run0

H1301 - Strat zonal mean % diff for Jul



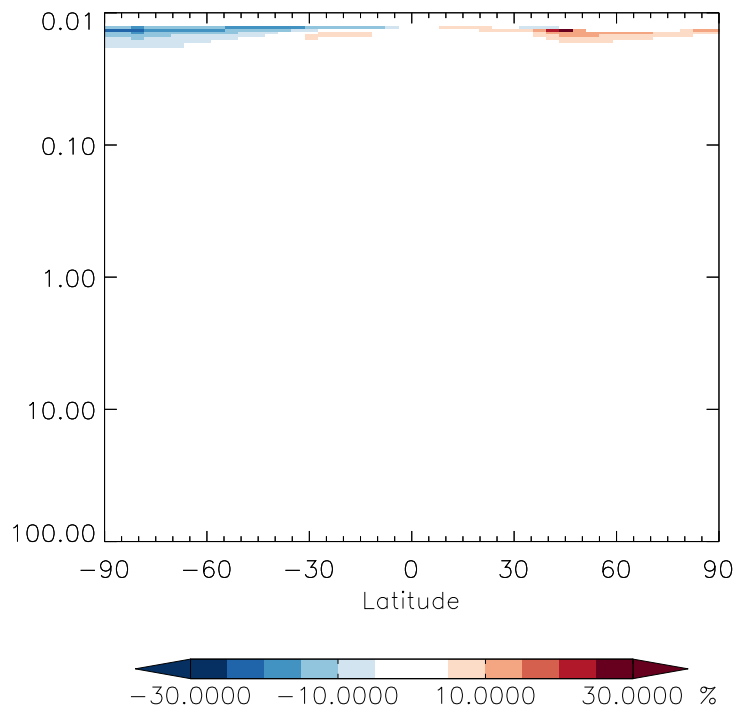
v11-01g-Run0 - v11-01d-Run1

H1301 - Strat zonal mean abs diff for Jul



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

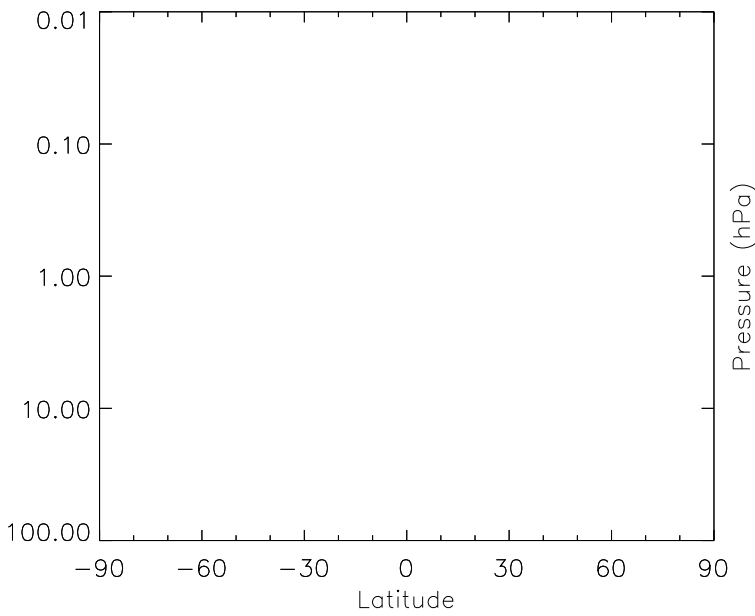
H1301 - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

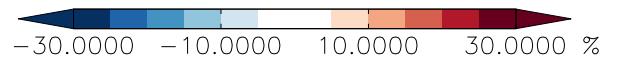
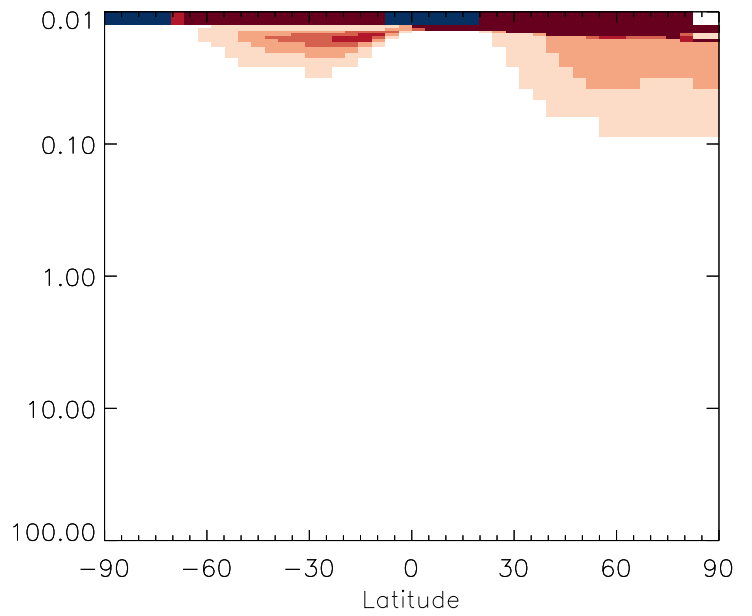
v11-01g-Run0 - v11-01f-geosfp-Run0

H2402 - Strat zonal mean abs diff for Jul



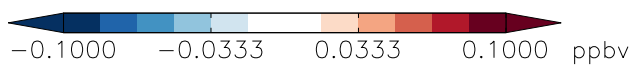
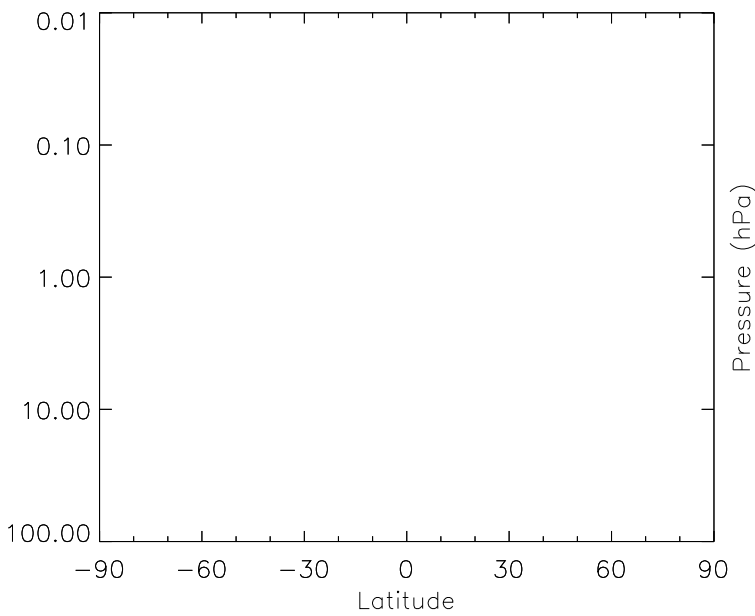
v11-01g-Run0 / v11-01f-geosfp-Run0

H2402 - Strat zonal mean % diff for Jul



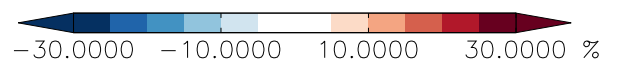
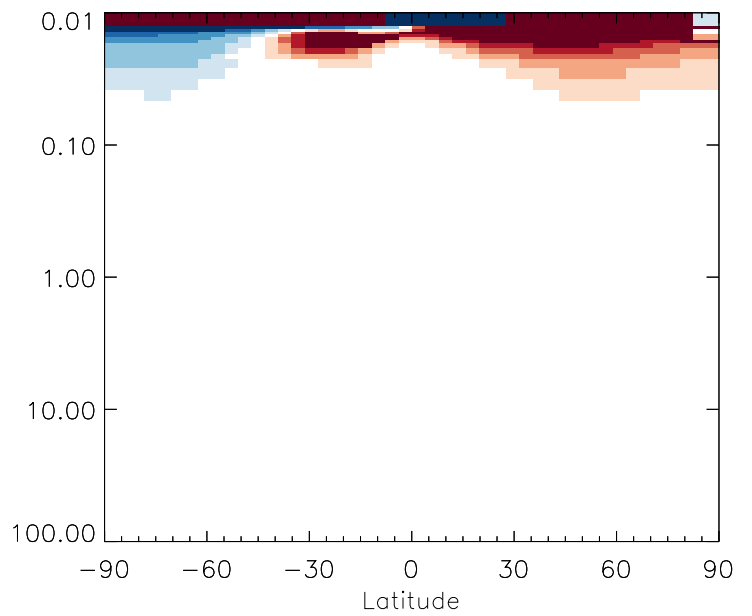
v11-01g-Run0 - v11-01d-Run1

H2402 - Strat zonal mean abs diff for Jul



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

H2402 - Strat zonal mean % diff for Jul

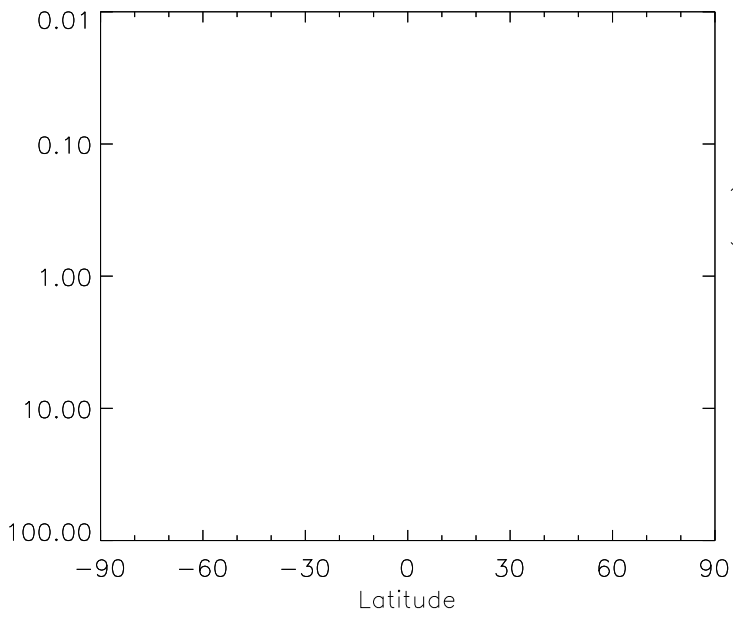




GEOS-Chem Stratospheric Zonal Difference Maps

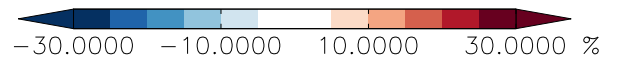
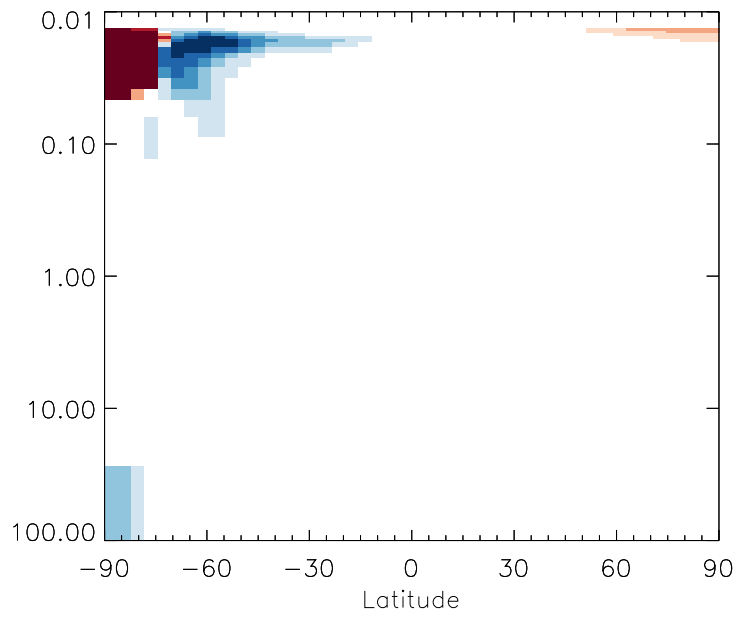
v11-01g-Run0 - v11-01f-geosfp-Run0

Cl - Strat zonal mean abs diff for Jul



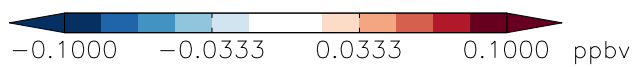
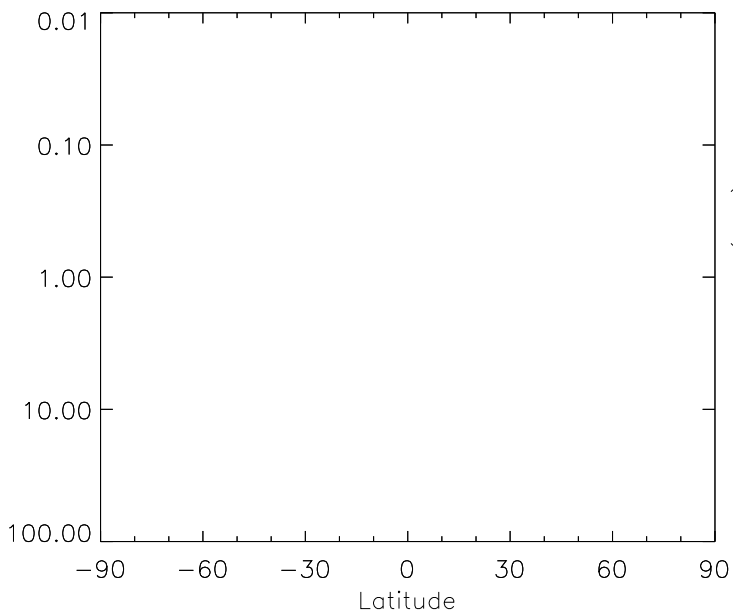
v11-01g-Run0 / v11-01f-geosfp-Run0

Cl - Strat zonal mean % diff for Jul



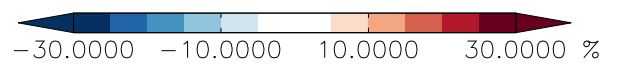
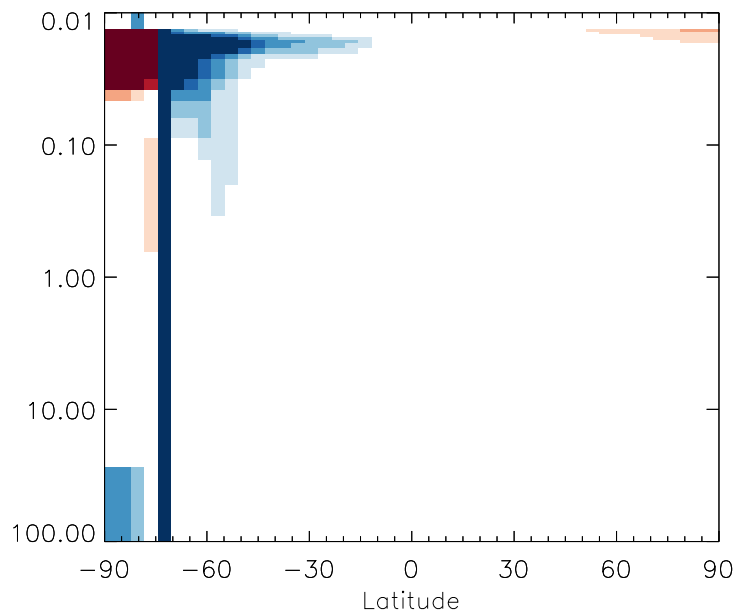
v11-01g-Run0 - v11-01d-Run1

Cl - Strat zonal mean abs diff for Jul



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

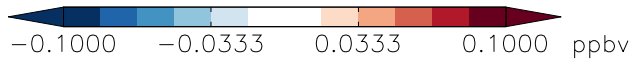
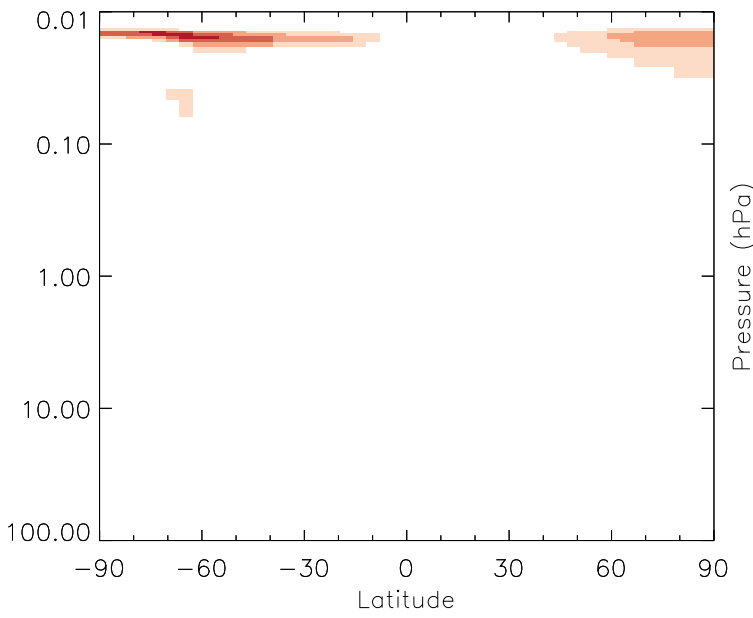
Cl - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

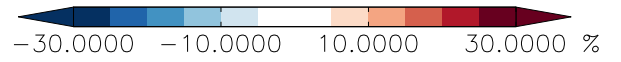
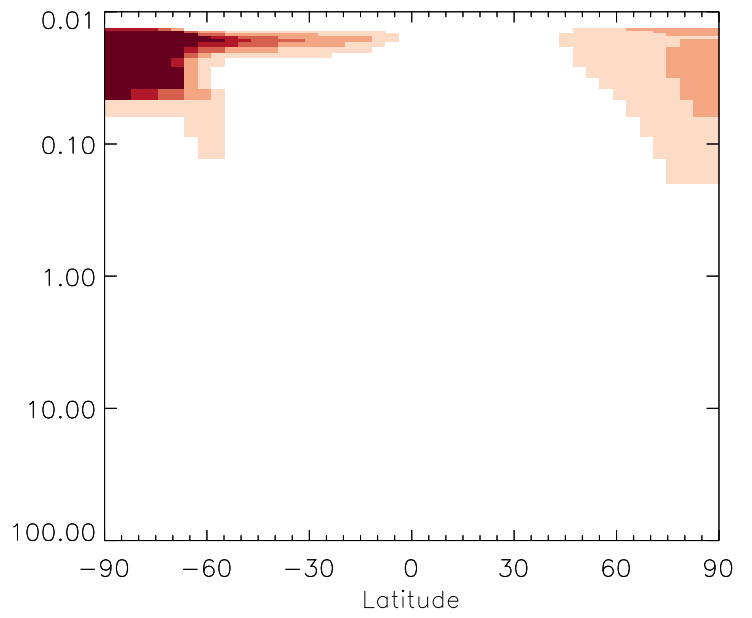
v11-01g-Run0 - v11-01f-geosfp-Run0

CIO - Strat zonal mean abs diff for Jul



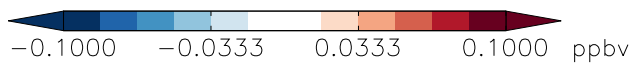
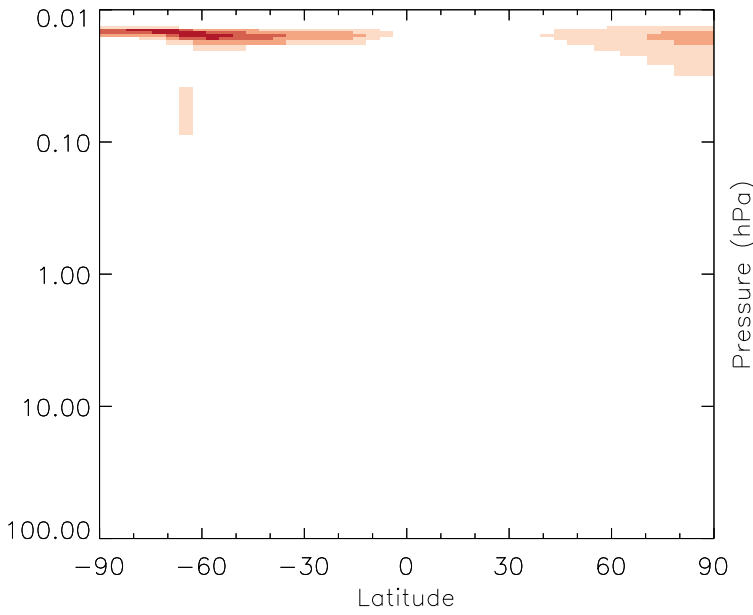
v11-01g-Run0 / v11-01f-geosfp-Run0

CIO - Strat zonal mean % diff for Jul



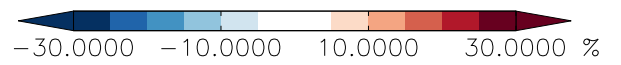
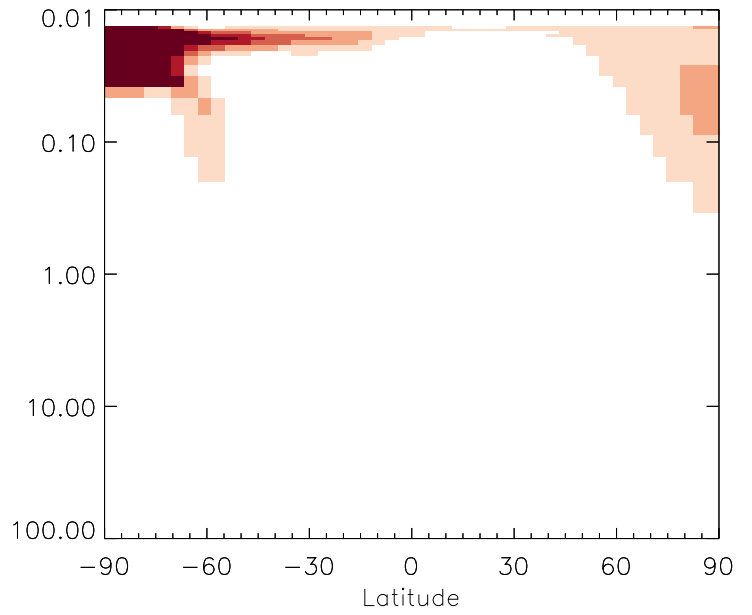
v11-01g-Run0 - v11-01d-Run1

CIO - Strat zonal mean abs diff for Jul



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

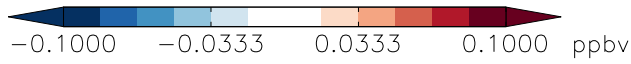
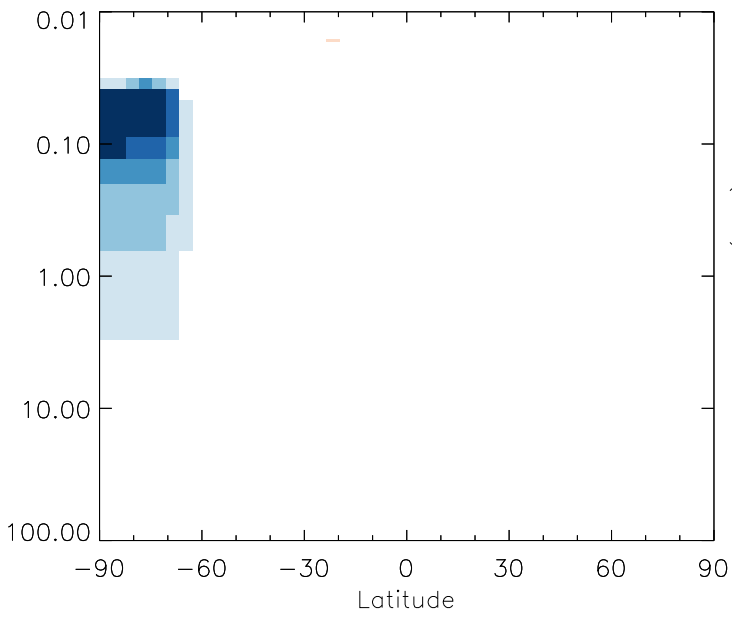
CIO - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

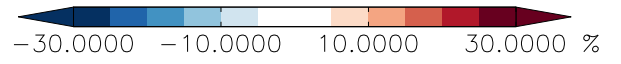
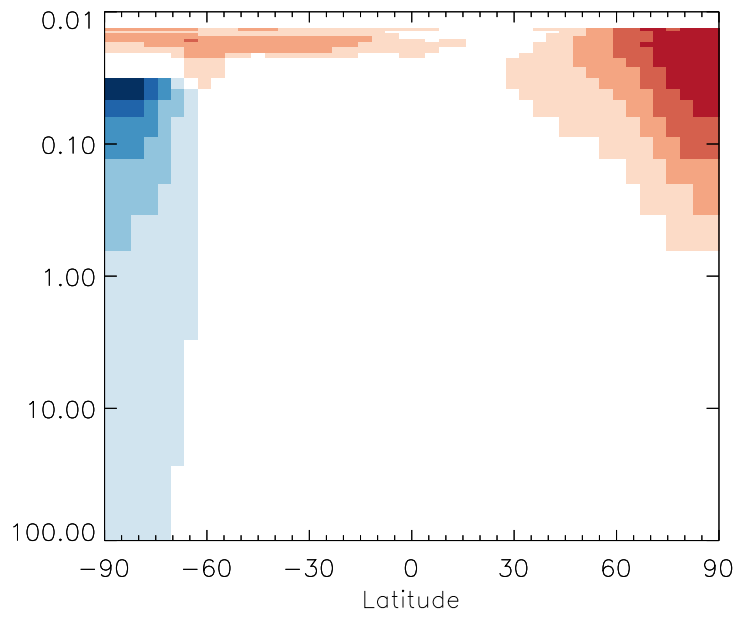
v11-01g-Run0 - v11-01f-geosfp-Run0

HOCl - Strat zonal mean abs diff for Jul



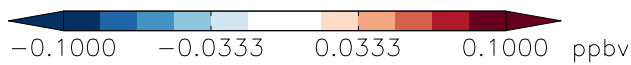
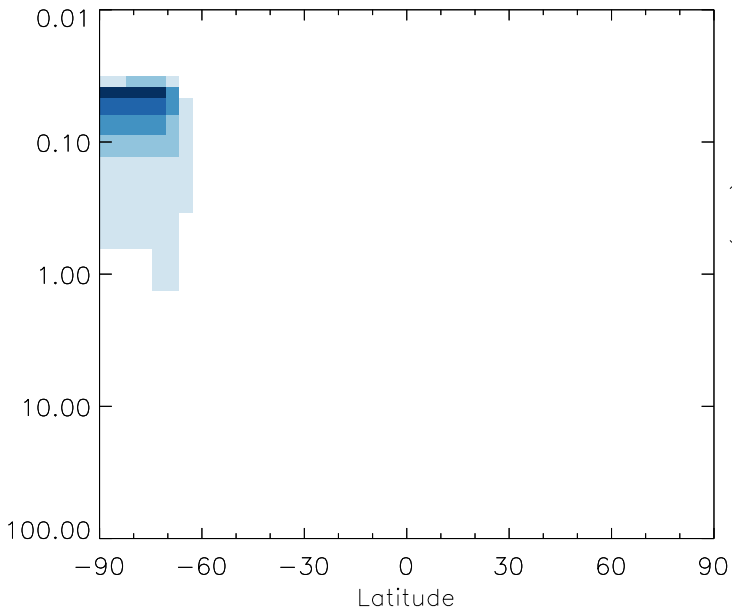
v11-01g-Run0 / v11-01f-geosfp-Run0

HOCl - Strat zonal mean % diff for Jul



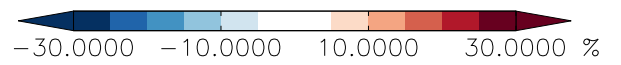
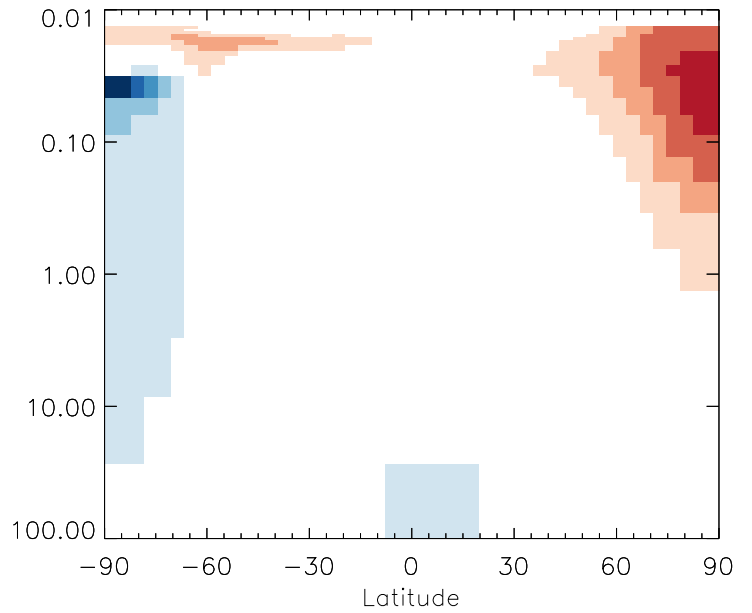
v11-01g-Run0 - v11-01d-Run1

HOCl - Strat zonal mean abs diff for Jul



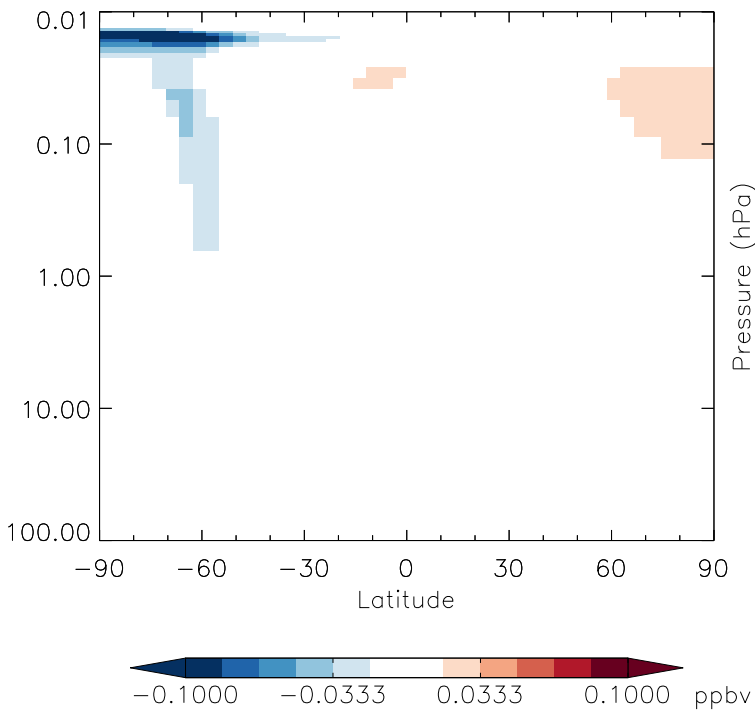
v11-01g-Run0 / v11-01d-Run1

HOCl - Strat zonal mean % diff for Jul

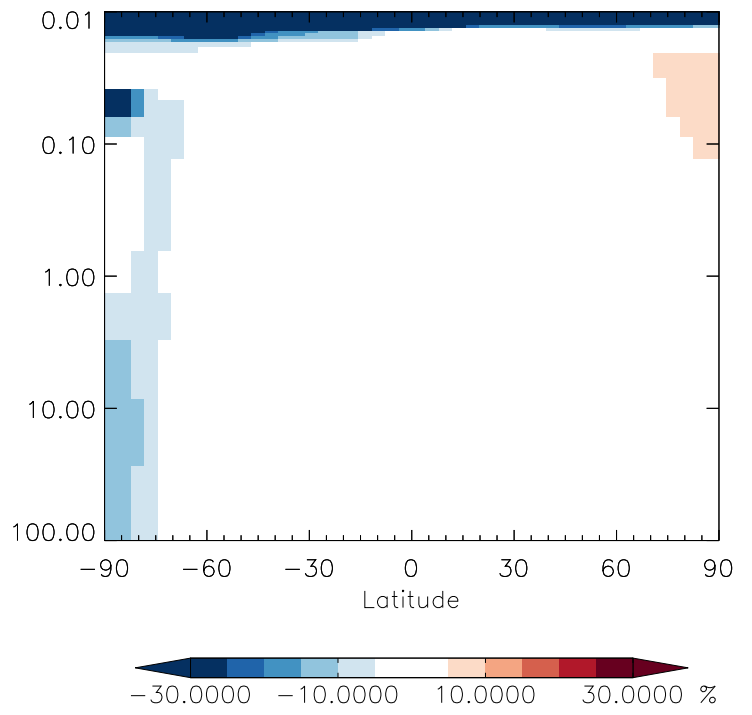


GEOS-Chem Stratospheric Zonal Difference Maps

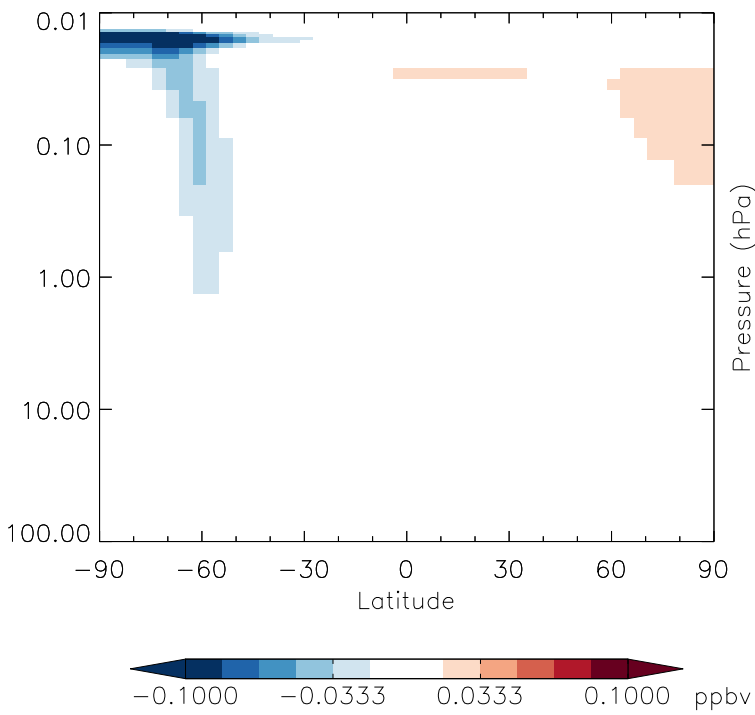
v11-01g-Run0 - v11-01f-geosfp-Run0  
ClNO<sub>3</sub> - Strat zonal mean abs diff for Jul



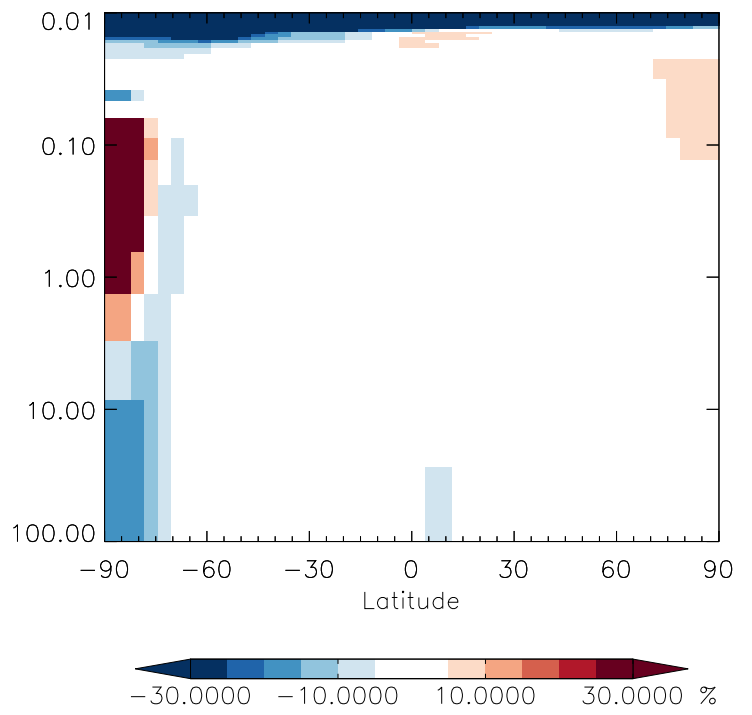
v11-01g-Run0 / v11-01f-geosfp-Run0  
ClNO<sub>3</sub> - Strat zonal mean % diff for Jul



v11-01g-Run0 - v11-01d-Run1  
ClNO<sub>3</sub> - Strat zonal mean abs diff for Jul



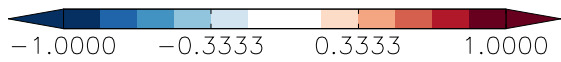
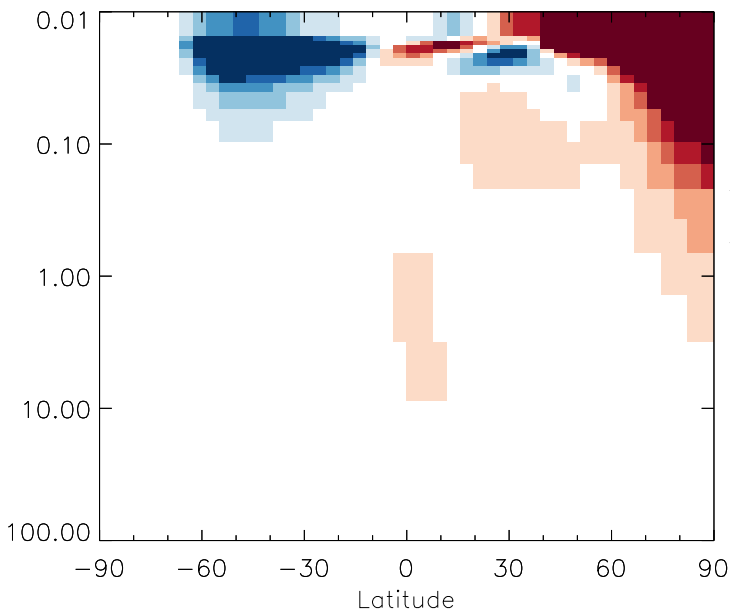
v11-01g-Run0 / v11-01d-Run1  
ClNO<sub>3</sub> - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

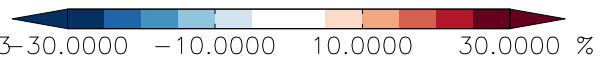
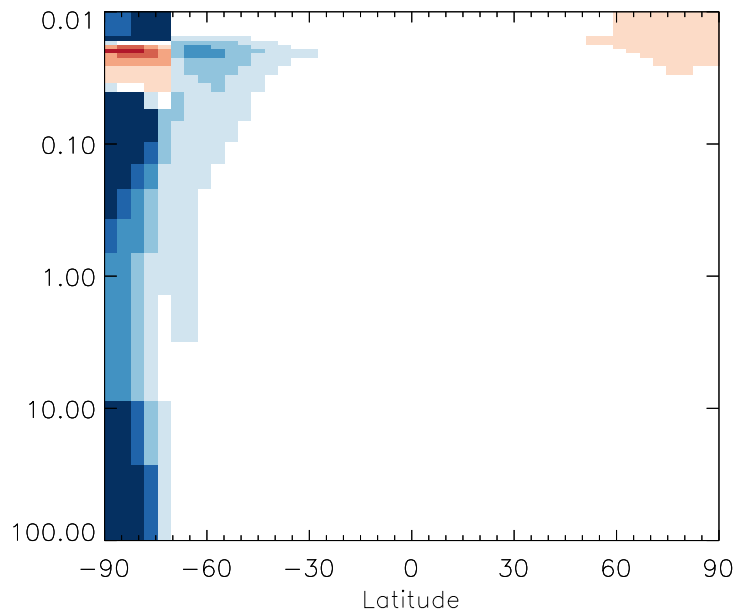
v11-01g-Run0 - v11-01f-geosfp-Run0

OH - Strat zonal mean abs diff for Jul



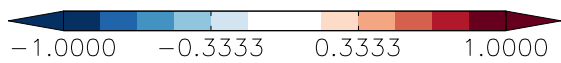
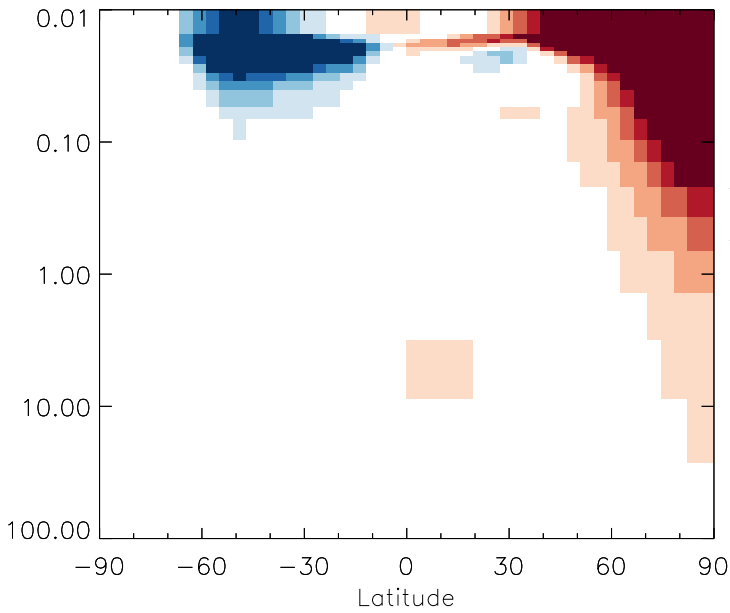
v11-01g-Run0 / v11-01f-geosfp-Run0

OH - Strat zonal mean % diff for Jul



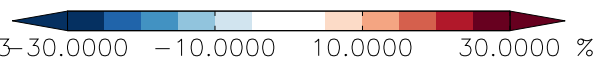
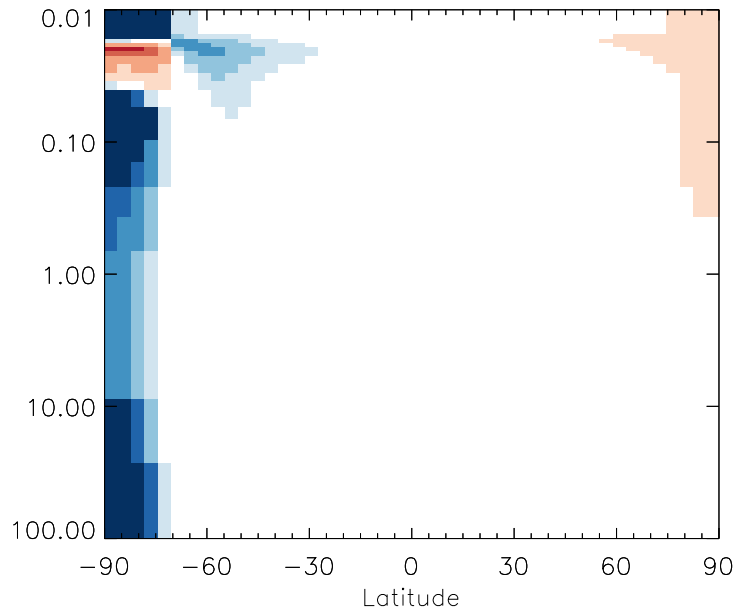
v11-01g-Run0 - v11-01d-Run1

OH - Strat zonal mean abs diff for Jul



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

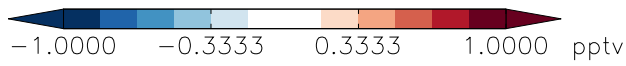
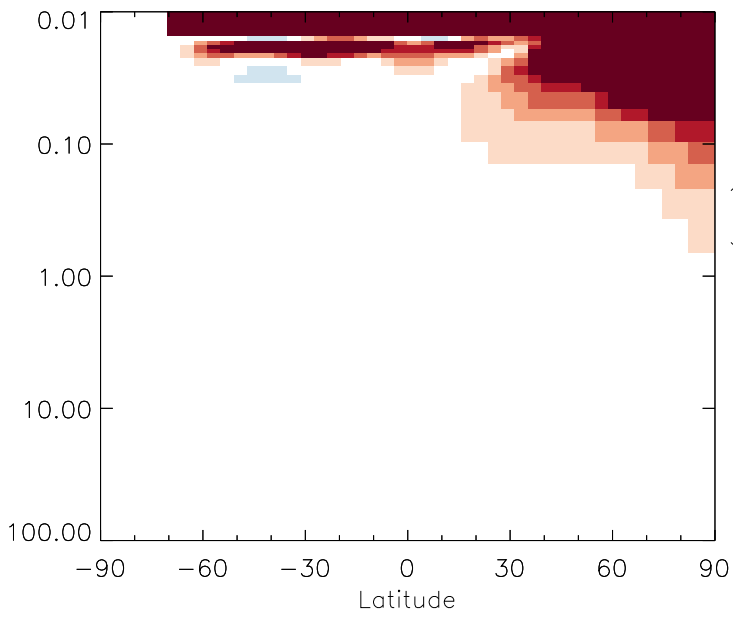
OH - Strat zonal mean % diff for Jul



GEOS-Chem Stratospheric Zonal Difference Maps

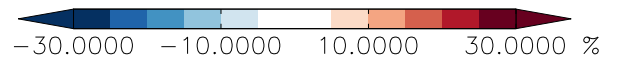
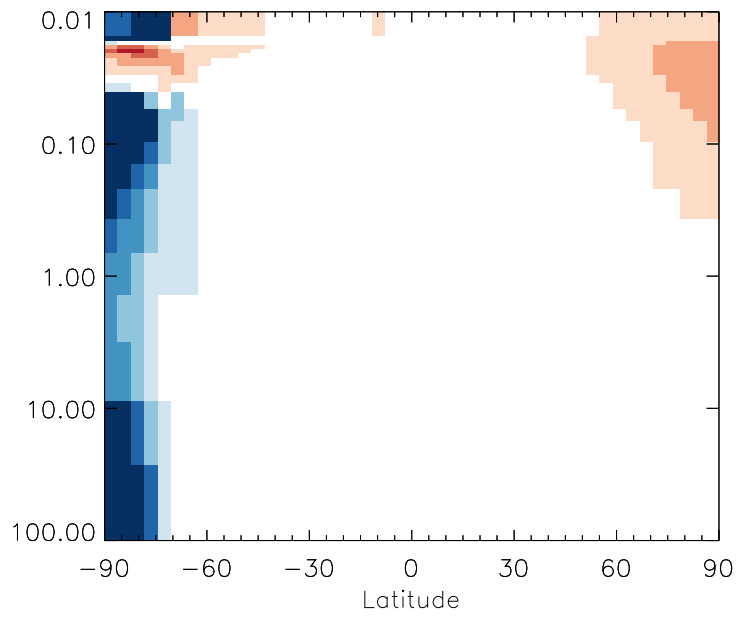
v11-01g-Run0 - v11-01f-geosfp-Run0

HO<sub>2</sub> - Strat zonal mean abs diff for Jul



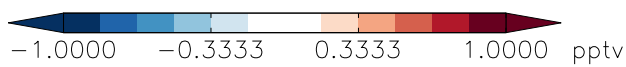
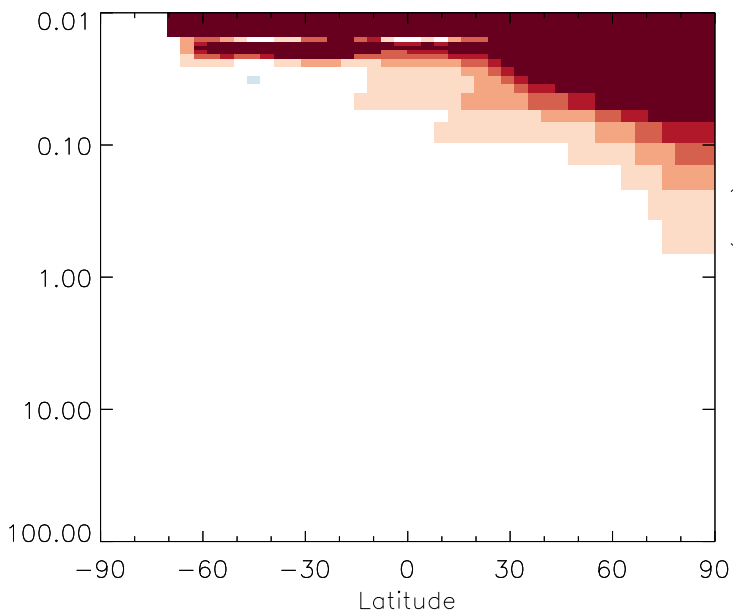
v11-01g-Run0 / v11-01f-geosfp-Run0

HO<sub>2</sub> - Strat zonal mean % diff for Jul



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

HO<sub>2</sub> - Strat zonal mean abs diff for Jul



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

HO<sub>2</sub> - Strat zonal mean % diff for Jul

