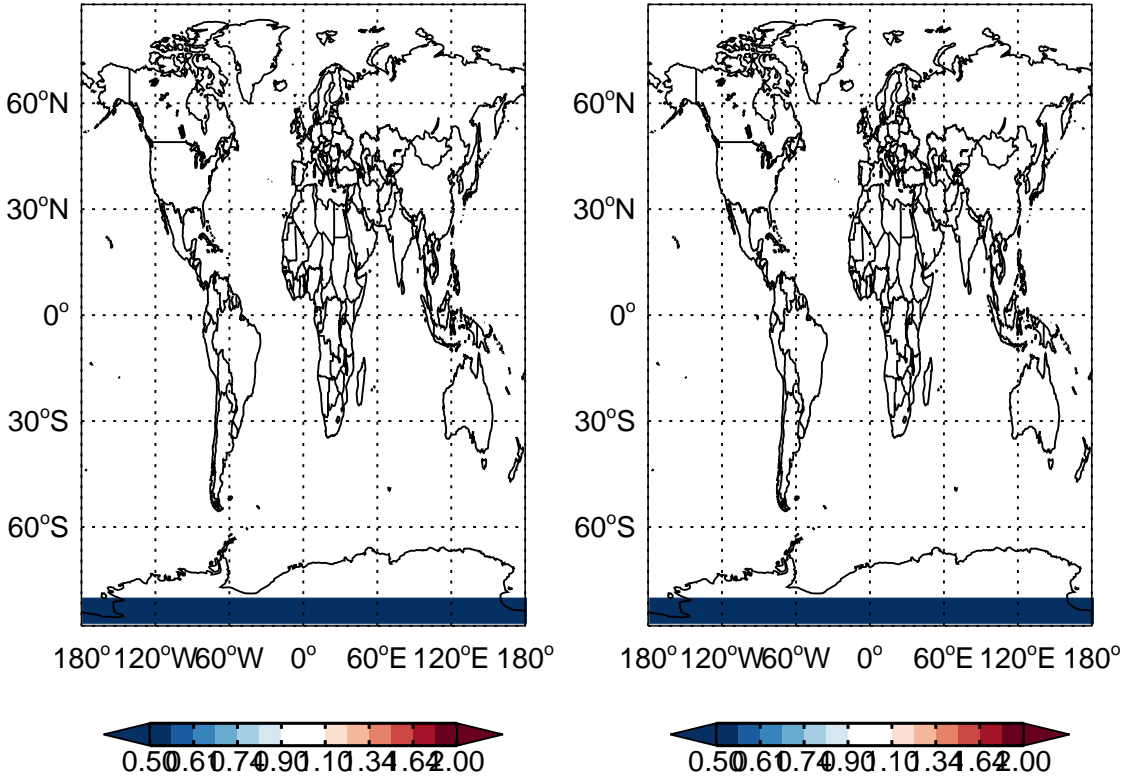


GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

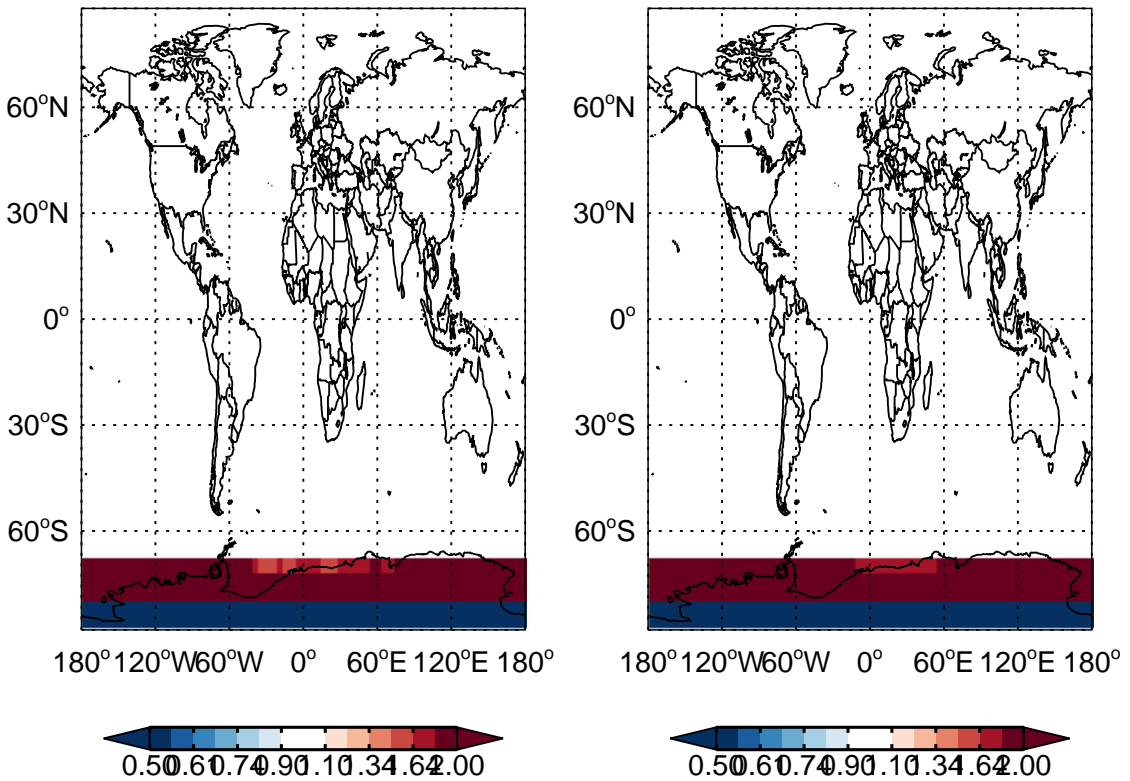
v11-01k-Run0 - v11-01g-Run0

JNO - J-Value Ratio @ surface for Jul | JNO - J-Value Ratio @ 500 hPa for Jul



v11-01k-Run0 - v11-01f-geosfp-Run0 | v11-01k-Run0 - v11-01f-geosfp-Run0

JNO - J-Value Ratio @ surface for Jul | JNO - J-Value Ratio @ 500 hPa for Jul



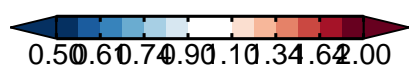
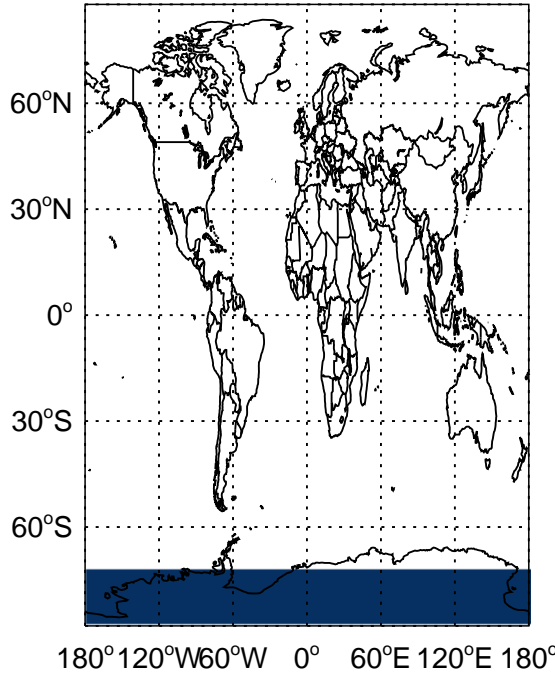
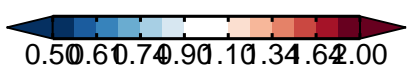
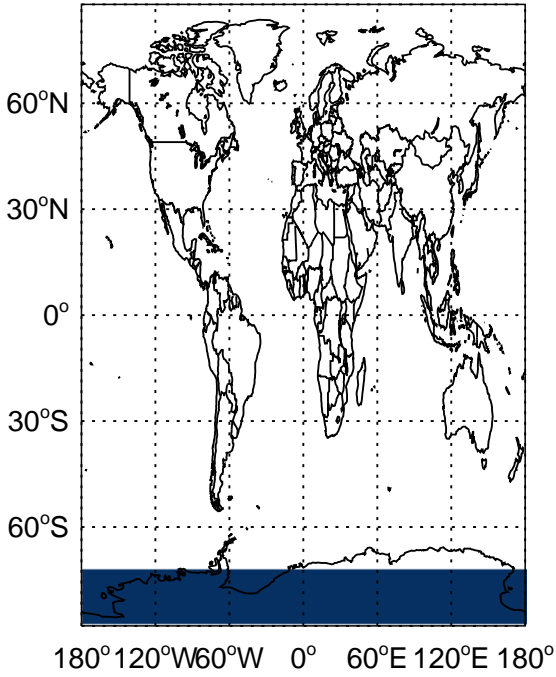
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JO3\_O1D - J-Value Ratio @ surface

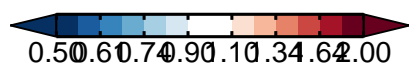
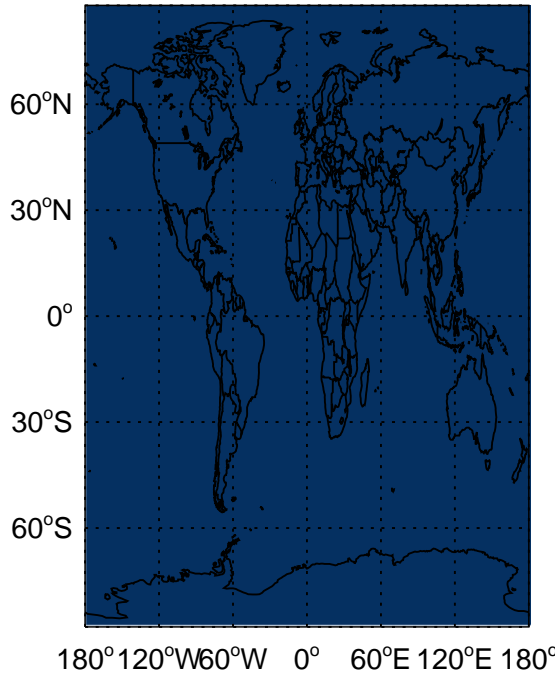
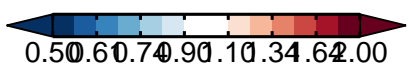
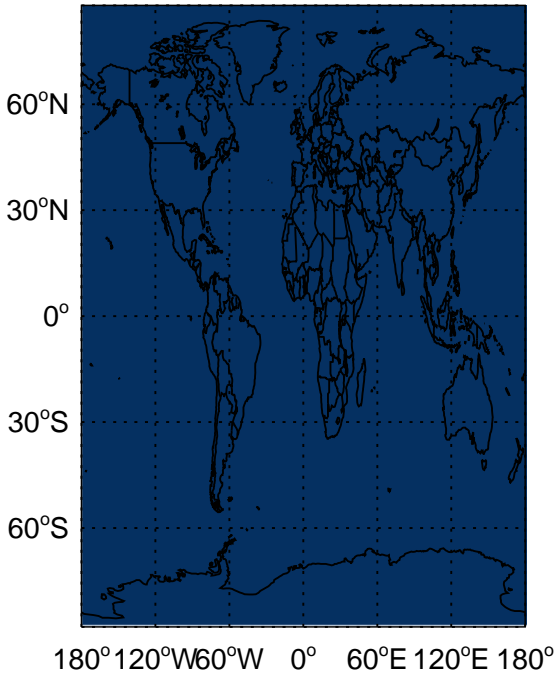
JO3\_O1D - J-Value Ratio @ 500 hPa for Jul



v11-01k-Run0 - v11-01f-geosfp-Run0

JO3\_O1D - J-Value Ratio @ surface

JO3\_O1D - J-Value Ratio @ 500 hPa for Jul



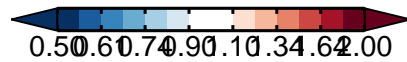
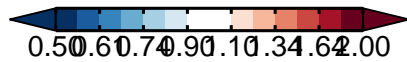
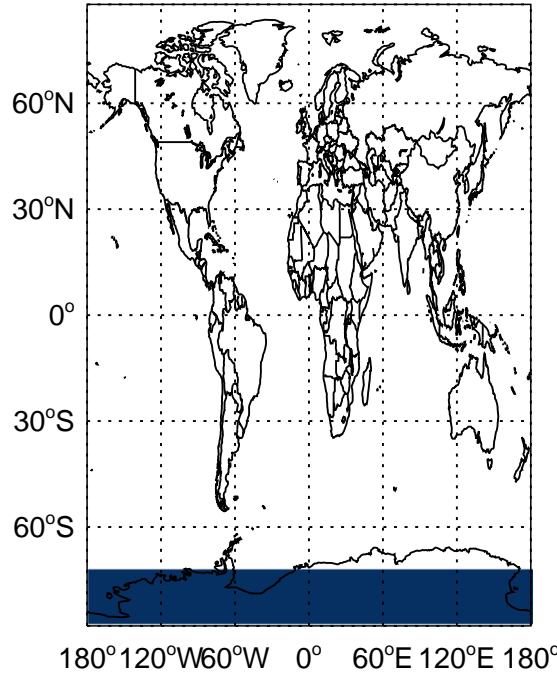
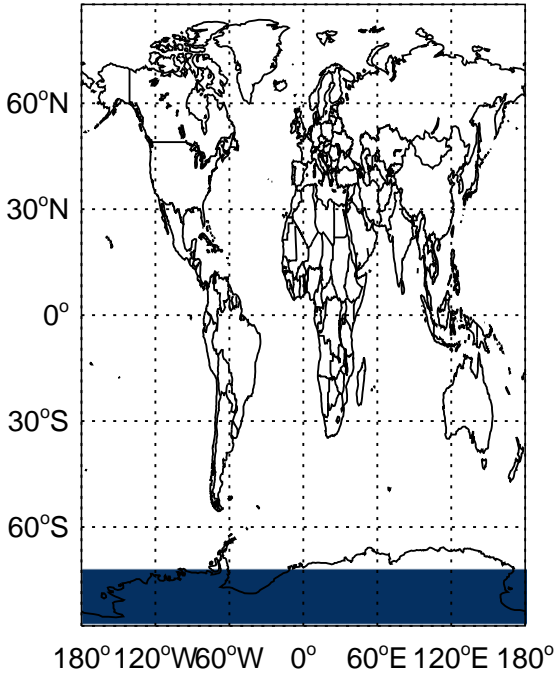
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JO3\_O3P - J-Value Ratio @ surface

JO3\_O3P - J-Value Ratio @ 500 hPa for Jul

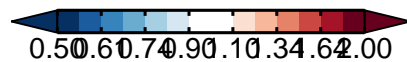
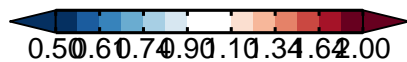
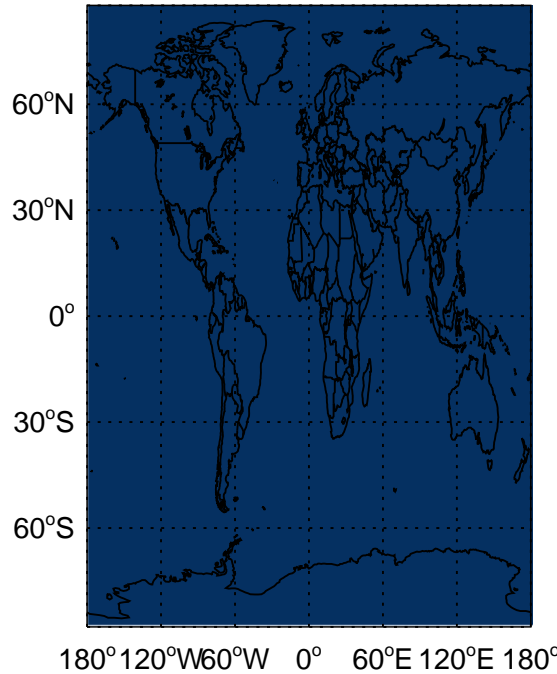
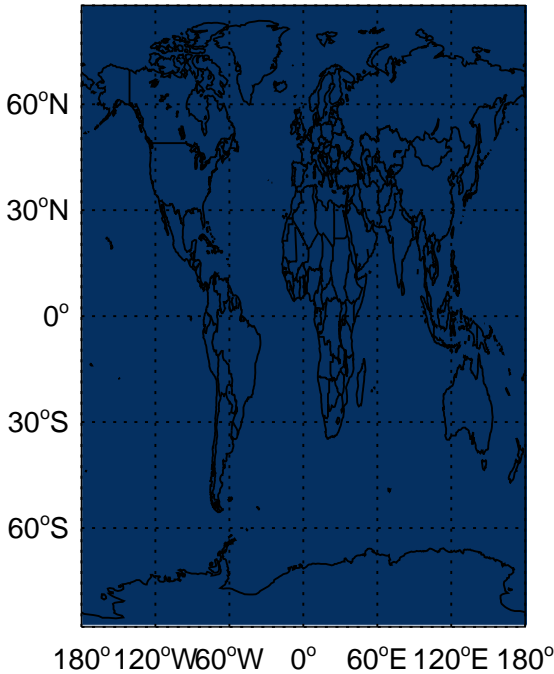


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JO3\_O3P - J-Value Ratio @ surface

JO3\_O3P - J-Value Ratio @ 500 hPa for Jul



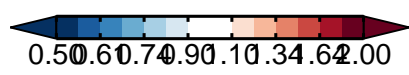
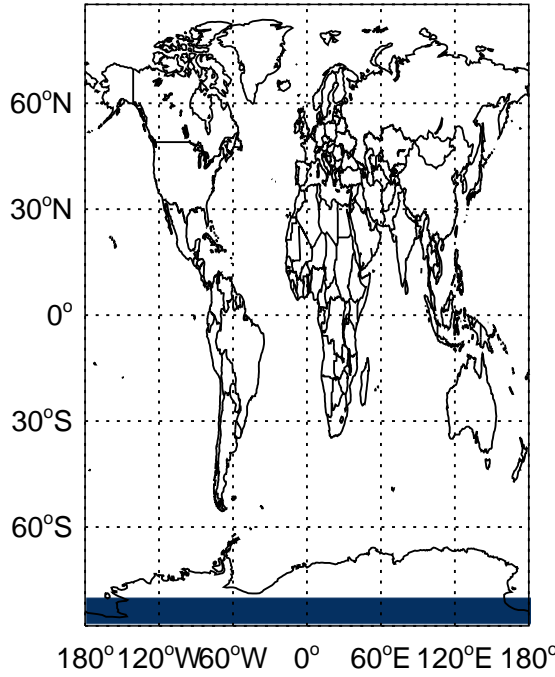
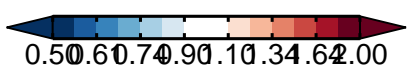
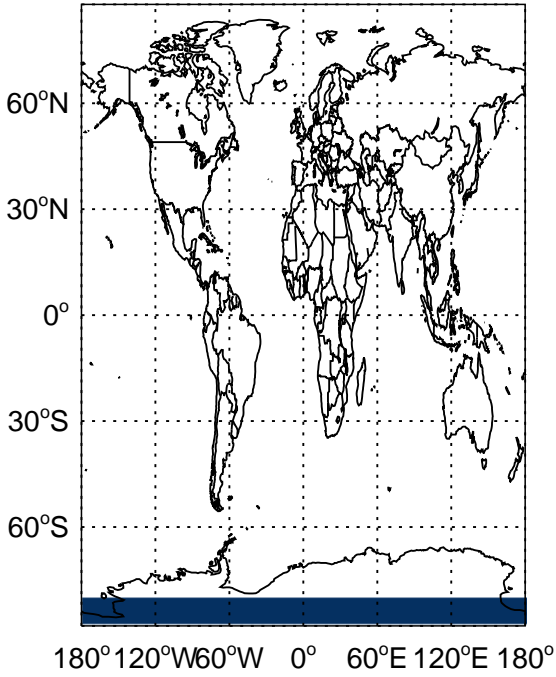
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JHNO3 - J-Value Ratio @ surface for Jul

JHNO3 - J-Value Ratio @ 500 hPa for Jul

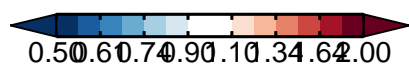
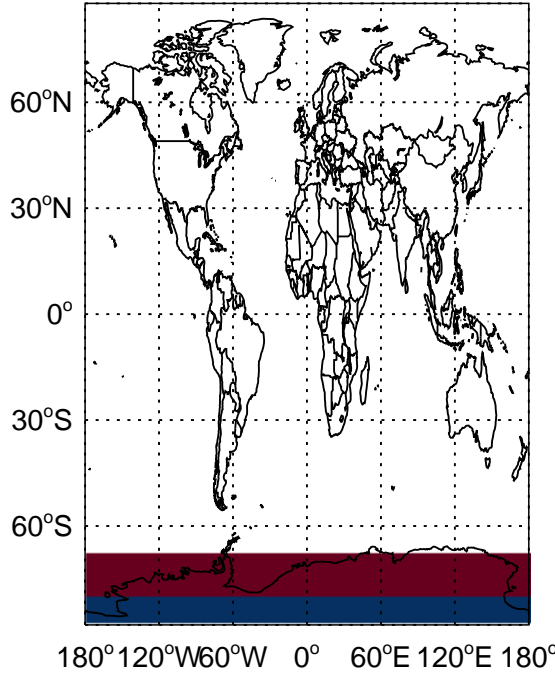
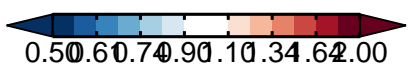
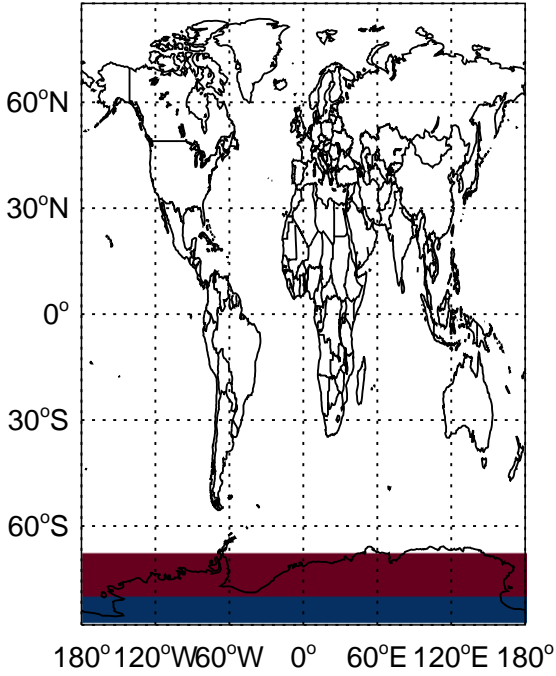


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JHNO3 - J-Value Ratio @ surface for Jul

JHNO3 - J-Value Ratio @ 500 hPa for Jul



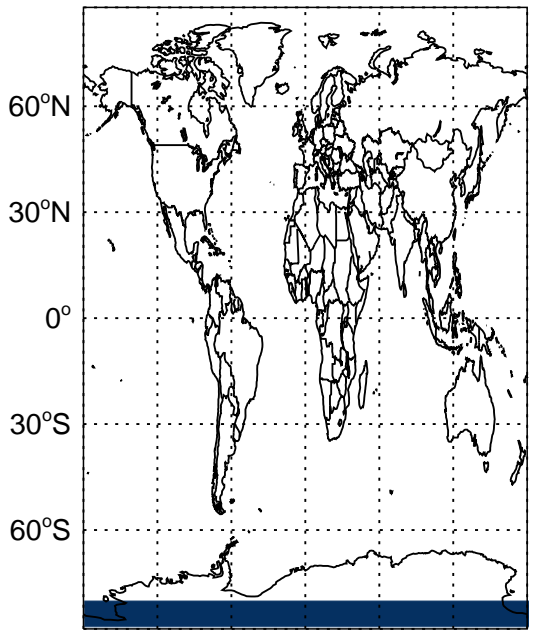
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

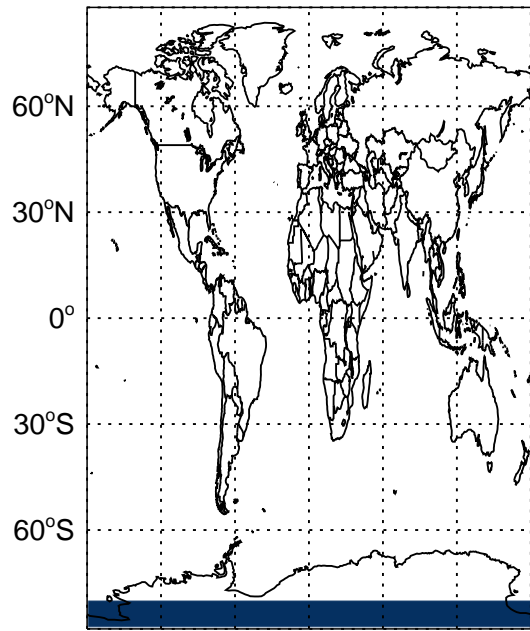
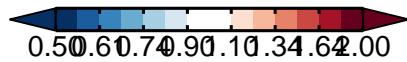
v11-01k-Run0 - v11-01g-Run0

JH2O2 - J-Value Ratio @ surface for Jul

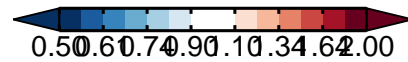
JH2O2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

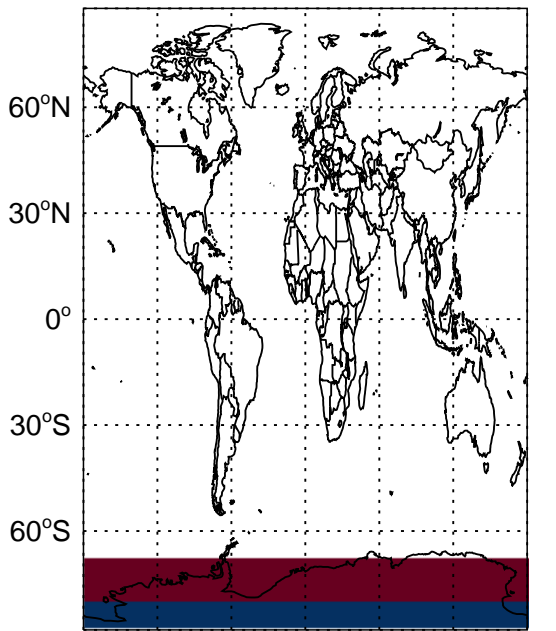


v11-01k-Run0 - v11-01f-geosfp-Run0

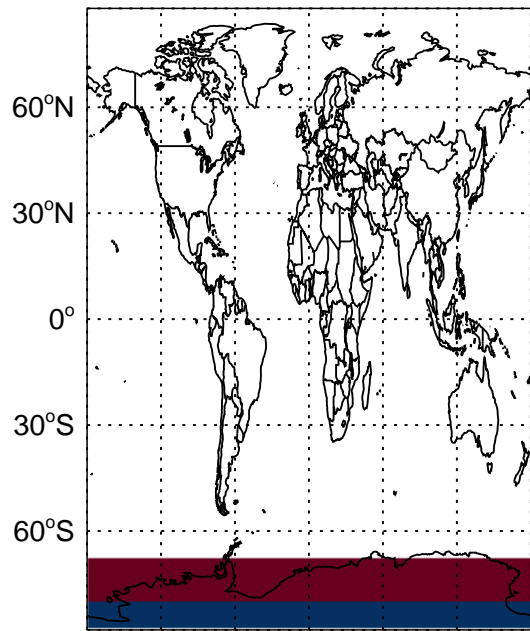
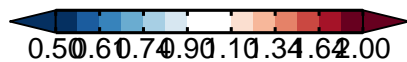
v11-01k-Run0 - v11-01f-geosfp-Run0

JH2O2 - J-Value Ratio @ surface for Jul

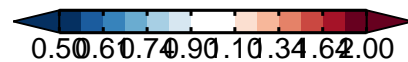
JH2O2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



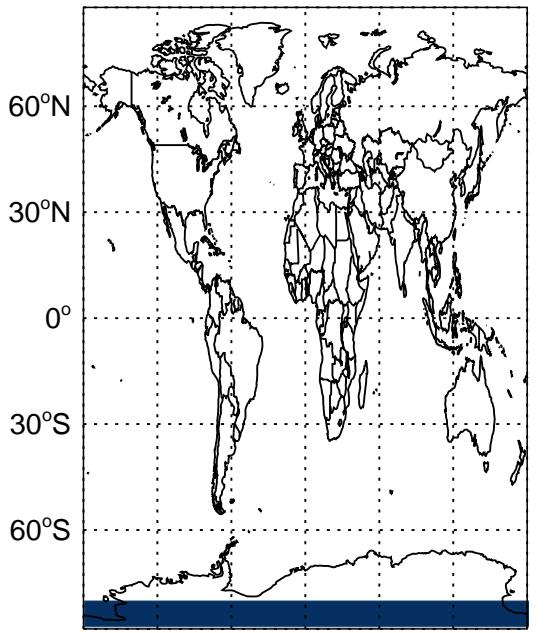
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

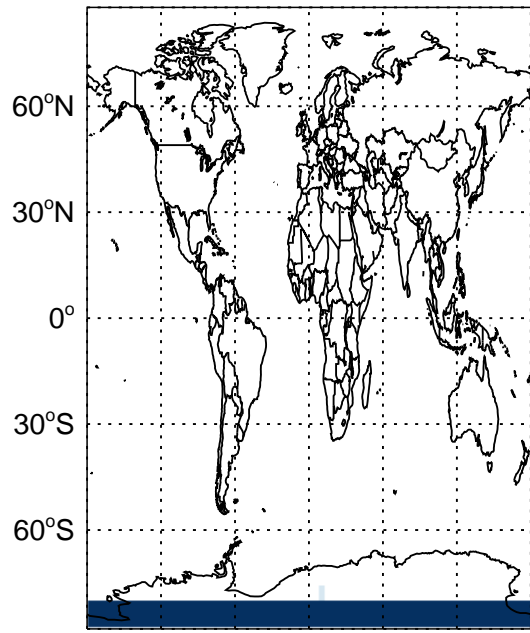
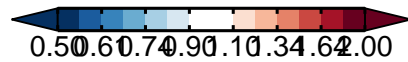
v11-01k-Run0 - v11-01g-Run0

JACET - J-Value Ratio @ surface for Jul

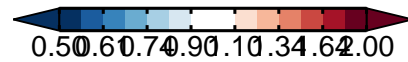
JACET - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

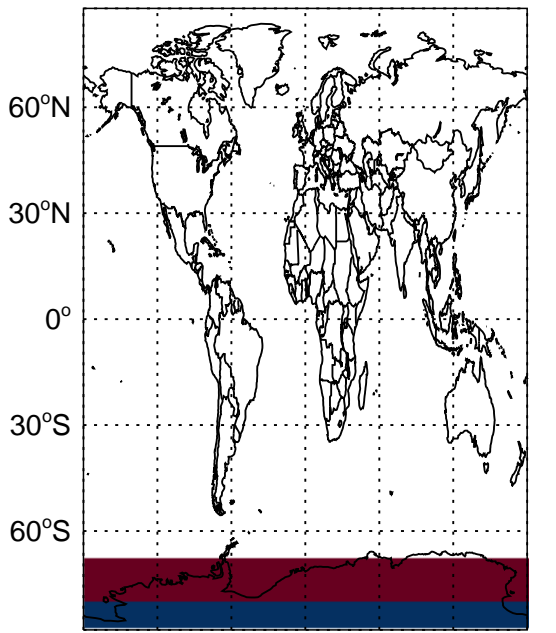


v11-01k-Run0 - v11-01f-geosfp-Run0

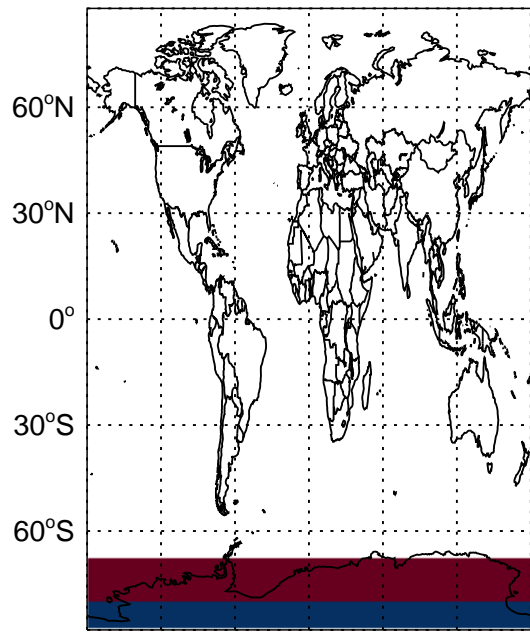
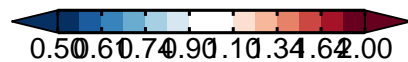
v11-01k-Run0 - v11-01f-geosfp-Run0

JACET - J-Value Ratio @ surface for Jul

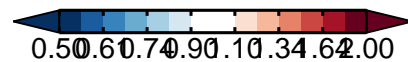
JACET - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



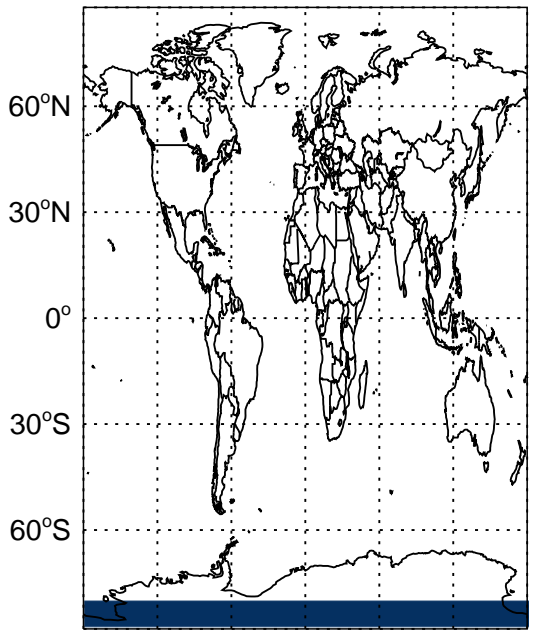
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

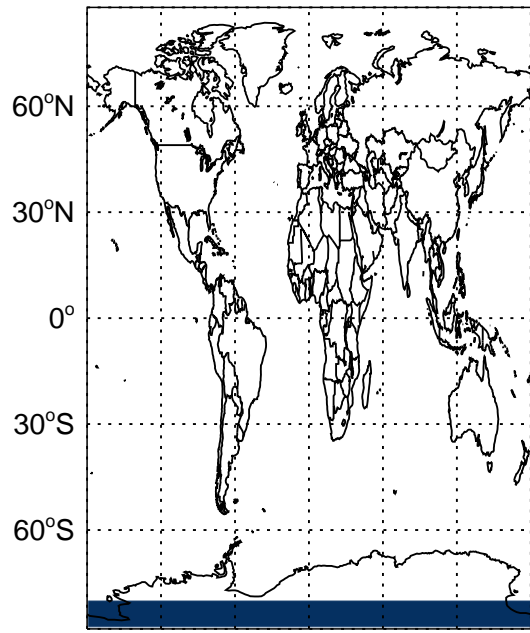
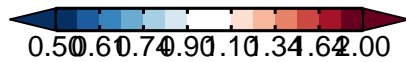
v11-01k-Run0 - v11-01g-Run0

JALD2 - J-Value Ratio @ surface for Jul

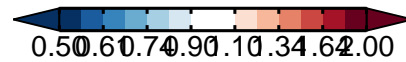
JALD2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

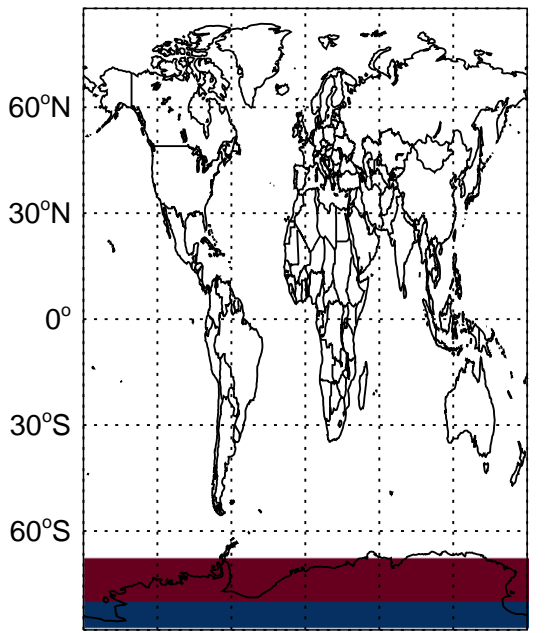


v11-01k-Run0 - v11-01f-geosfp-Run0

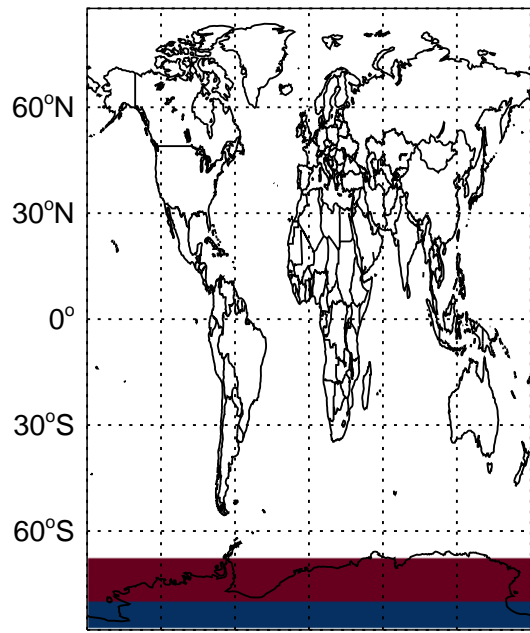
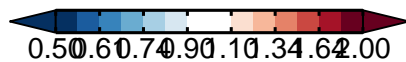
v11-01k-Run0 - v11-01f-geosfp-Run0

JALD2 - J-Value Ratio @ surface for Jul

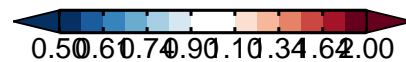
JALD2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



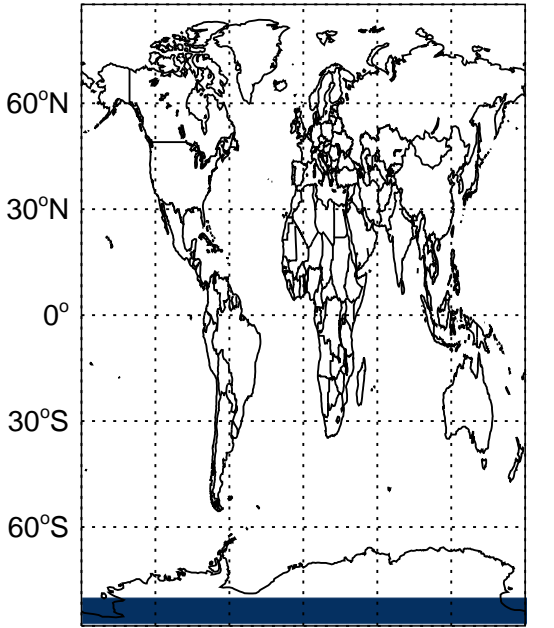
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

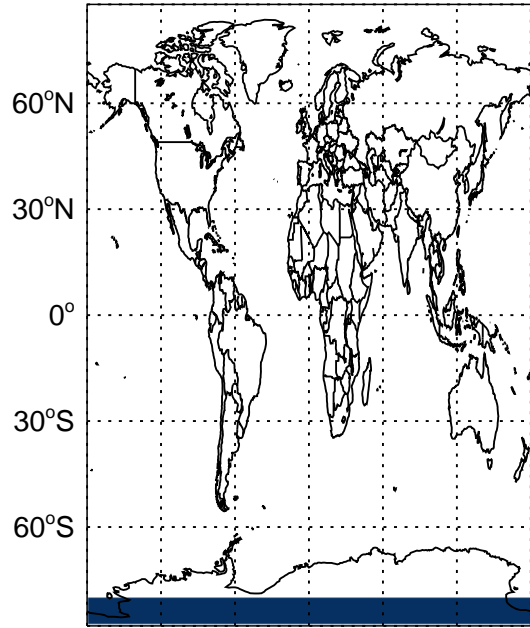
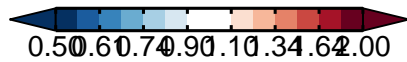
v11-01k-Run0 - v11-01g-Run0

JMVK - J-Value Ratio @ surface for

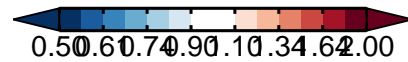
JMVK - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

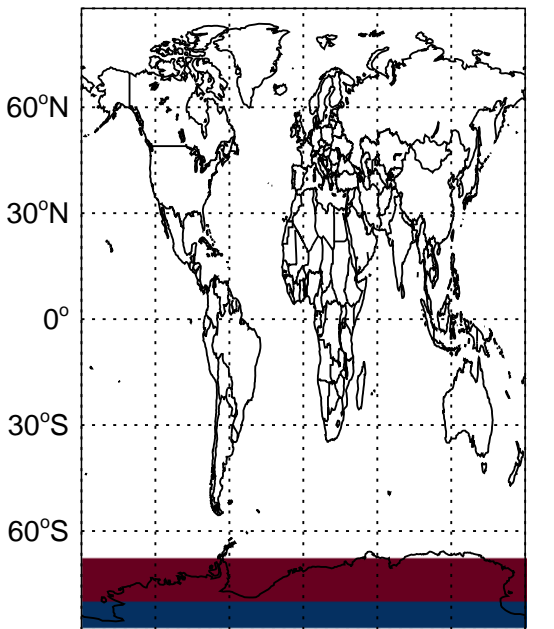


v11-01k-Run0 - v11-01f-geosfp-Run0

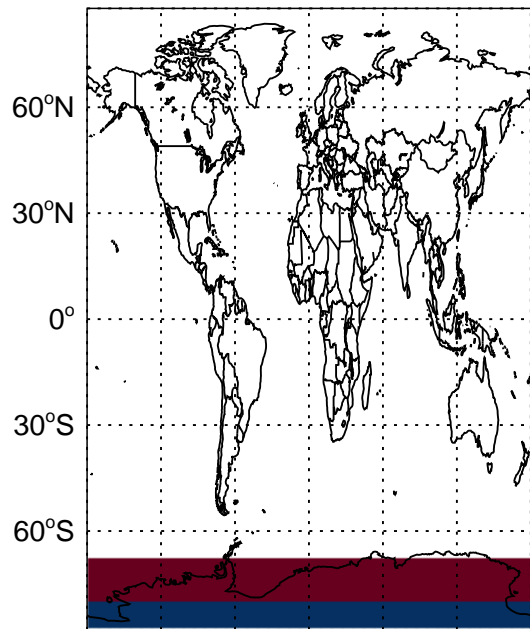
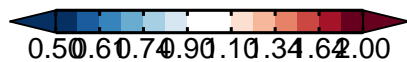
v11-01k-Run0 - v11-01f-geosfp-Run0

JMVK - J-Value Ratio @ surface for

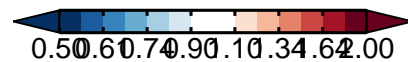
JMVK - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°





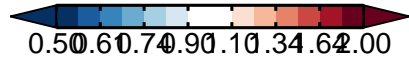
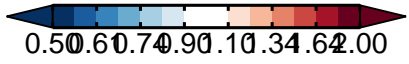
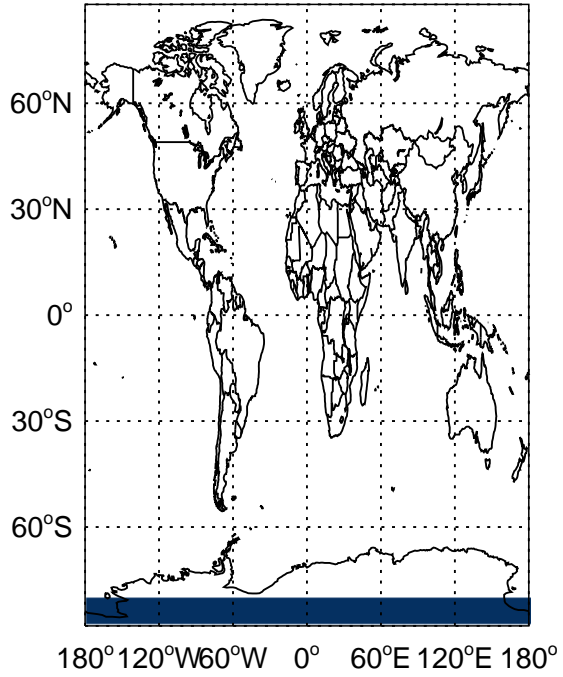
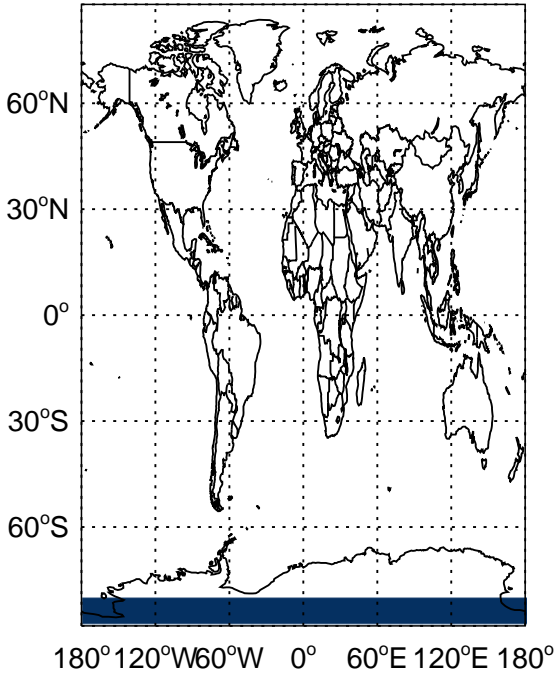
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JMACR - J-Value Ratio @ surface for Jul

JMACR - J-Value Ratio @ 500 hPa for Jul

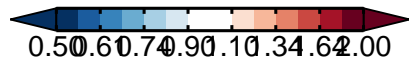
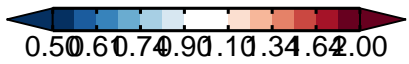
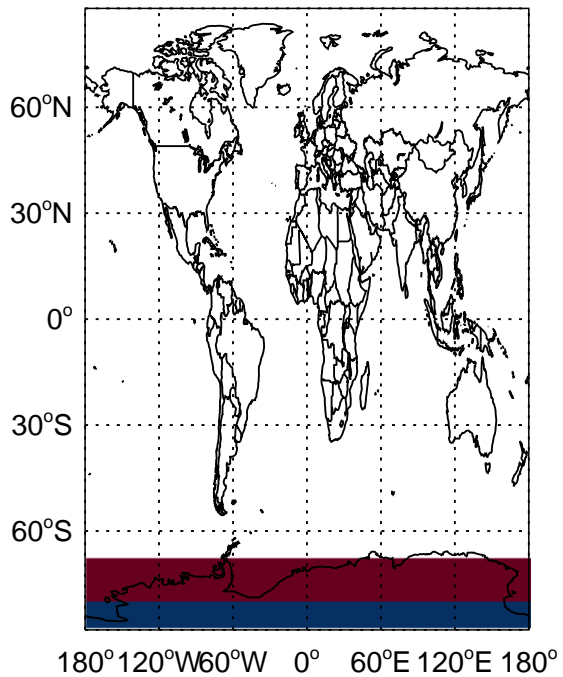
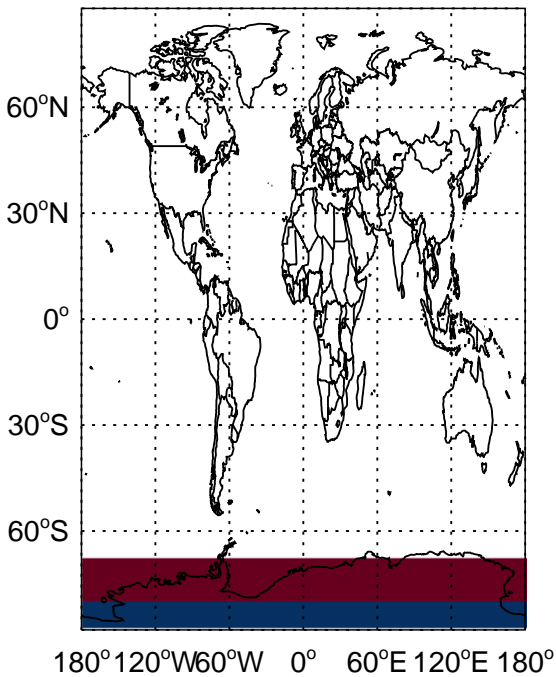


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JMACR - J-Value Ratio @ surface for Jul

JMACR - J-Value Ratio @ 500 hPa for Jul



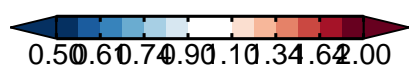
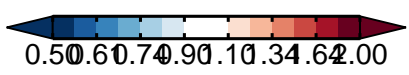
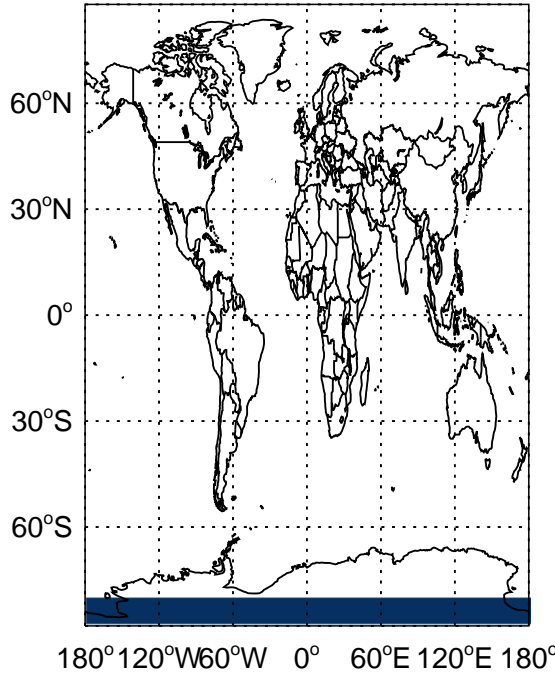
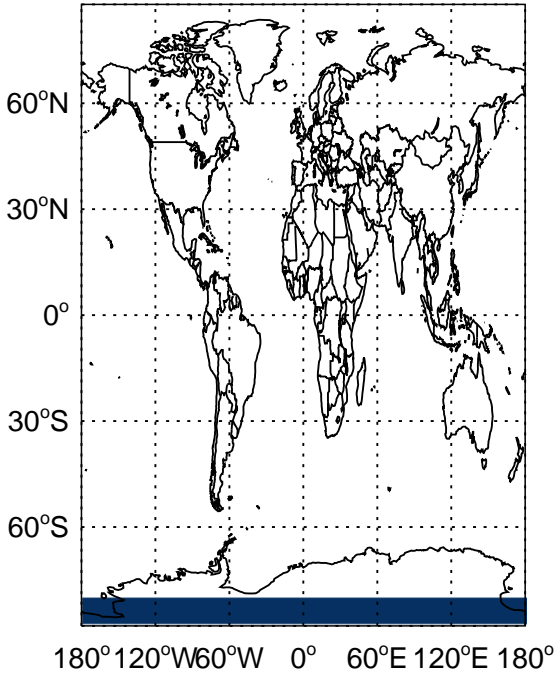
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JCH<sub>2</sub>O - J-Value Ratio @ surface for Jul

JOH<sub>2</sub>O - J-Value Ratio @ 500 hPa for Jul

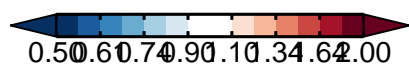
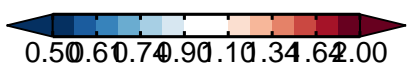
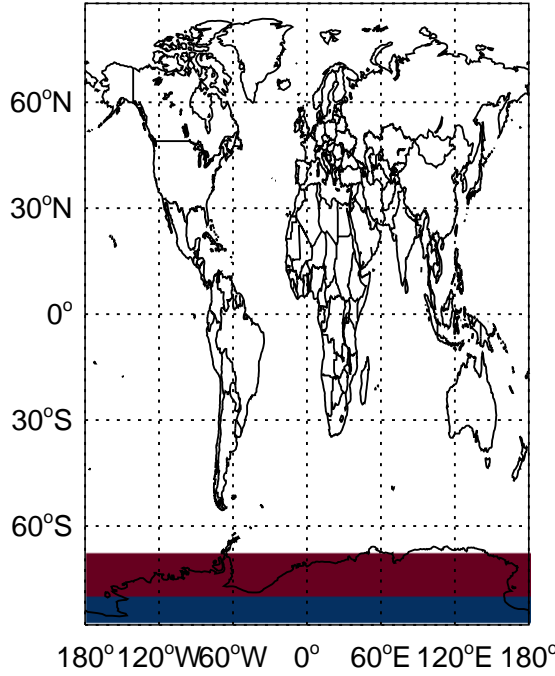
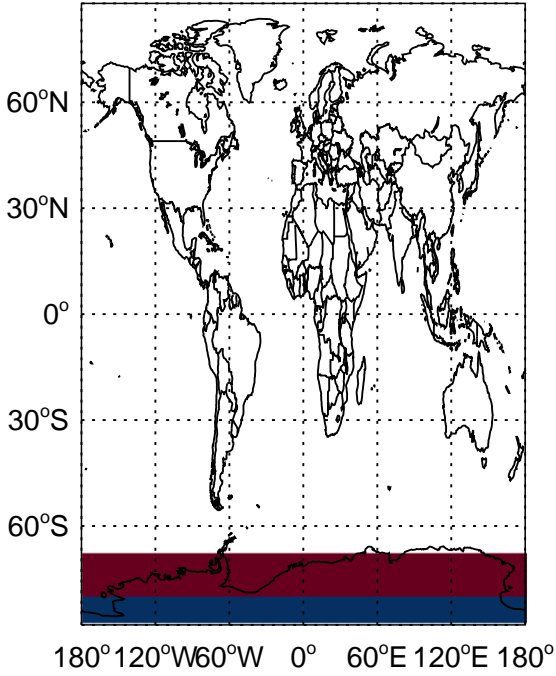


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JCH<sub>2</sub>O - J-Value Ratio @ surface for Jul

JOH<sub>2</sub>O - J-Value Ratio @ 500 hPa for Jul



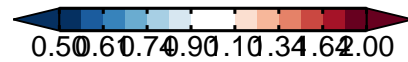
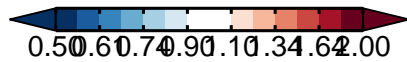
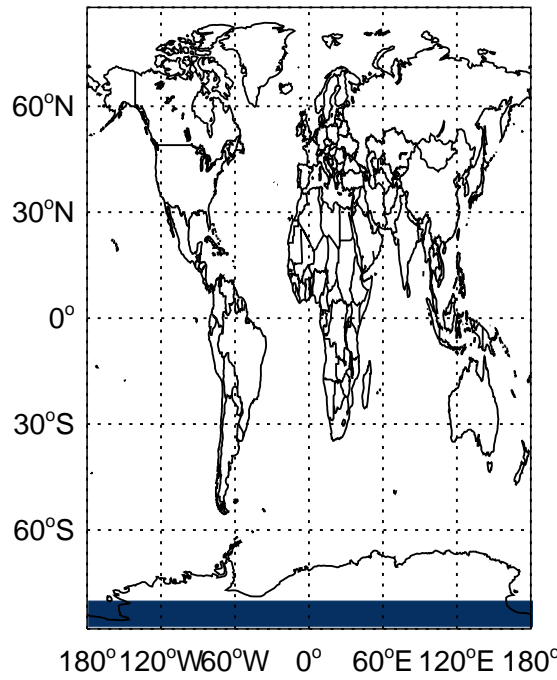
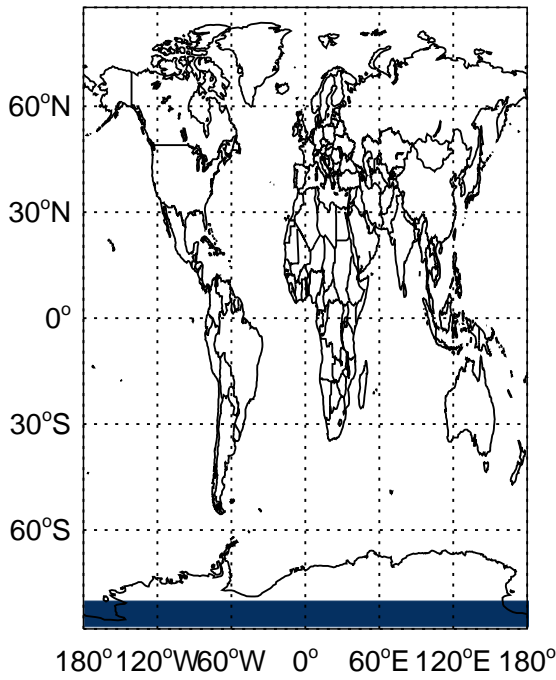
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JBr2 - J-Value Ratio @ surface for Jul

JBr2 - J-Value Ratio @ 500 hPa for Jul

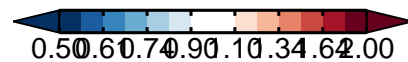
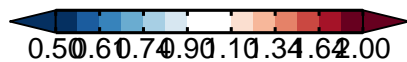
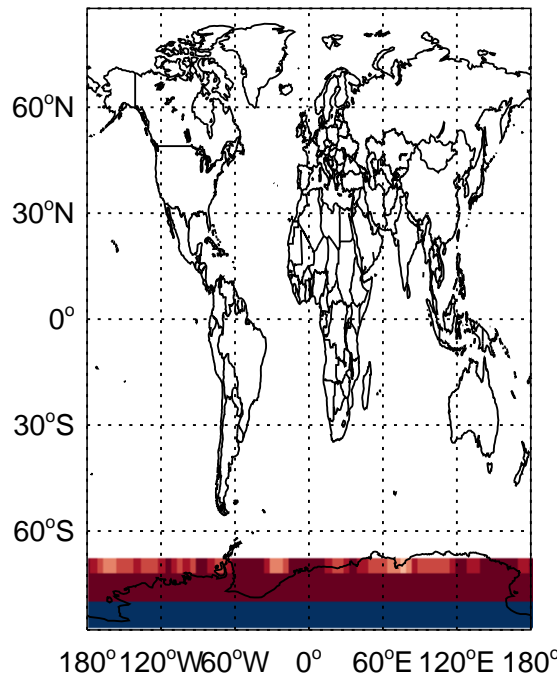
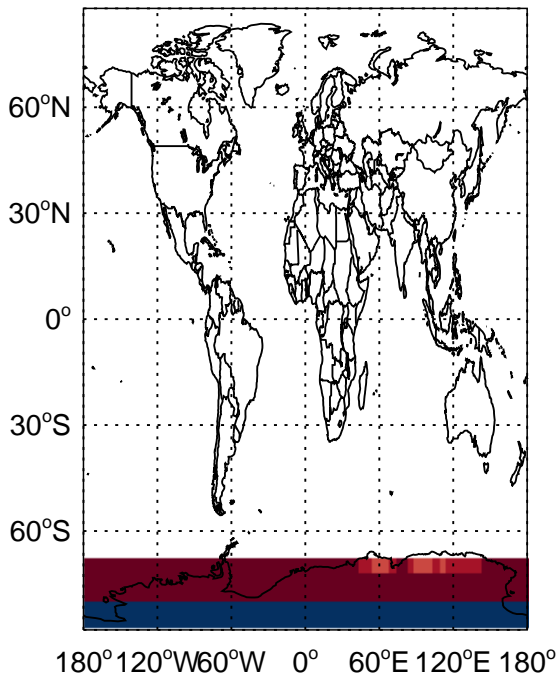


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JBr2 - J-Value Ratio @ surface for Jul

JBr2 - J-Value Ratio @ 500 hPa for Jul



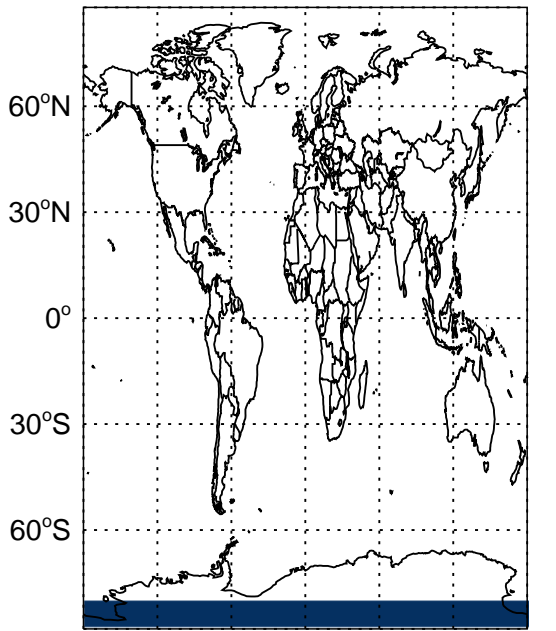
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

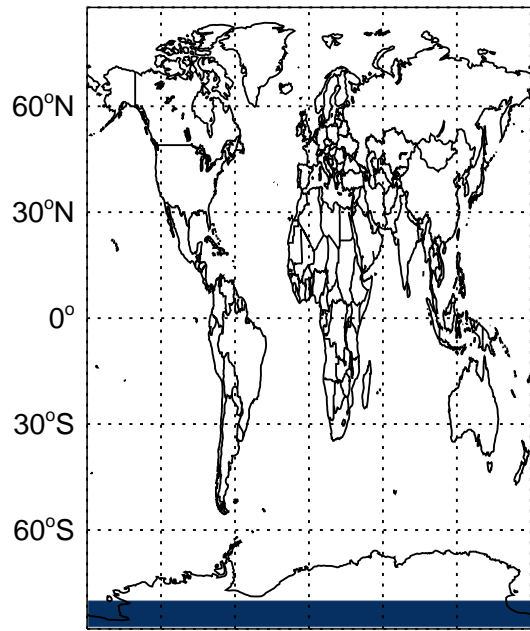
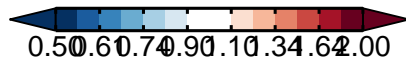
v11-01k-Run0 - v11-01g-Run0

JBrO - J-Value Ratio @ surface for Jul

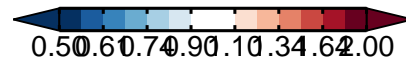
JBrO - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

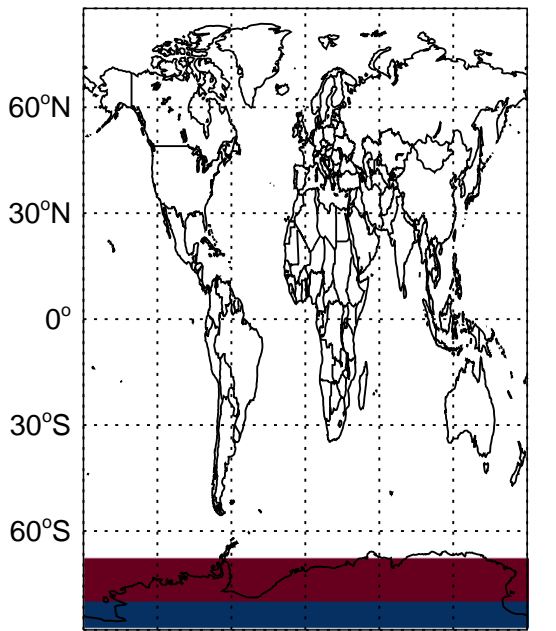


v11-01k-Run0 - v11-01f-geosfp-Run0

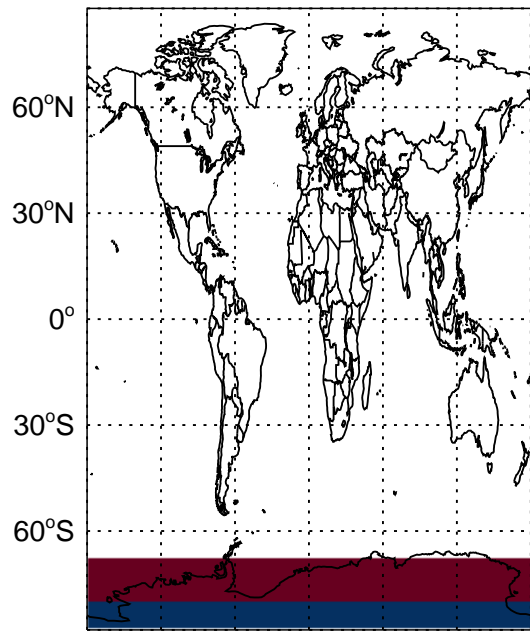
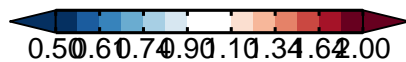
v11-01k-Run0 - v11-01f-geosfp-Run0

JBrO - J-Value Ratio @ surface for Jul

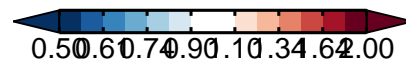
JBrO - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



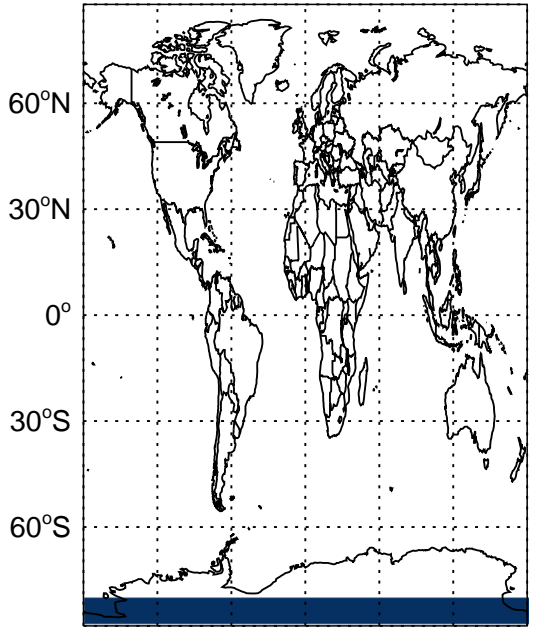
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

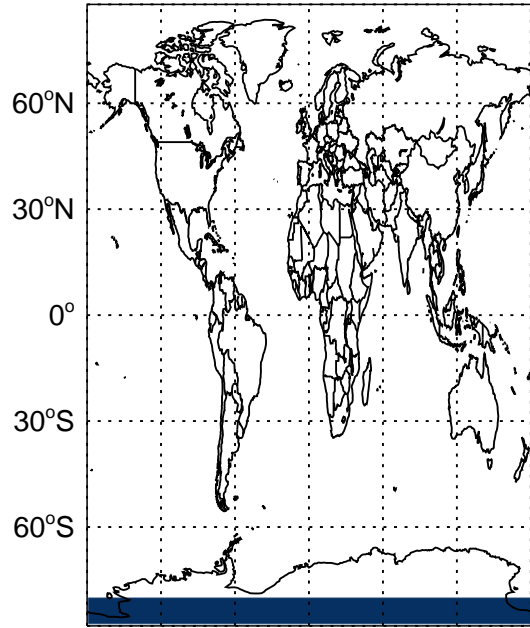
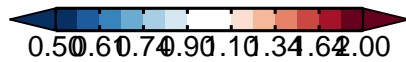
v11-01k-Run0 - v11-01g-Run0

JHOBr - J-Value Ratio @ surface for Jul

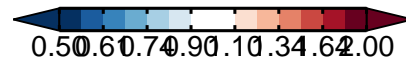
JHOBr - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

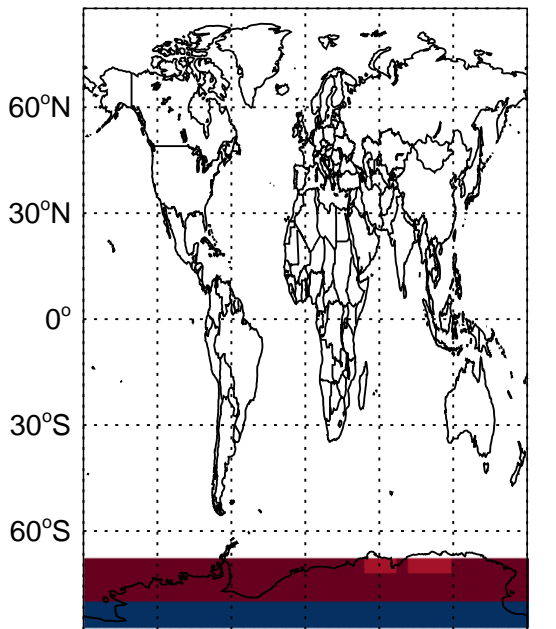


v11-01k-Run0 - v11-01f-geosfp-Run0

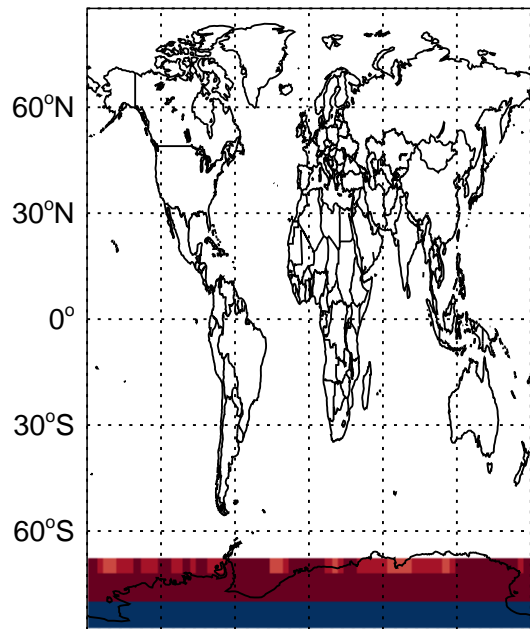
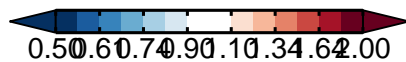
v11-01k-Run0 - v11-01f-geosfp-Run0

JHOBr - J-Value Ratio @ surface for Jul

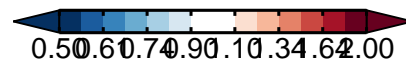
JHOBr - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



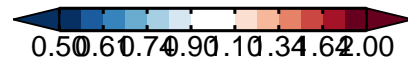
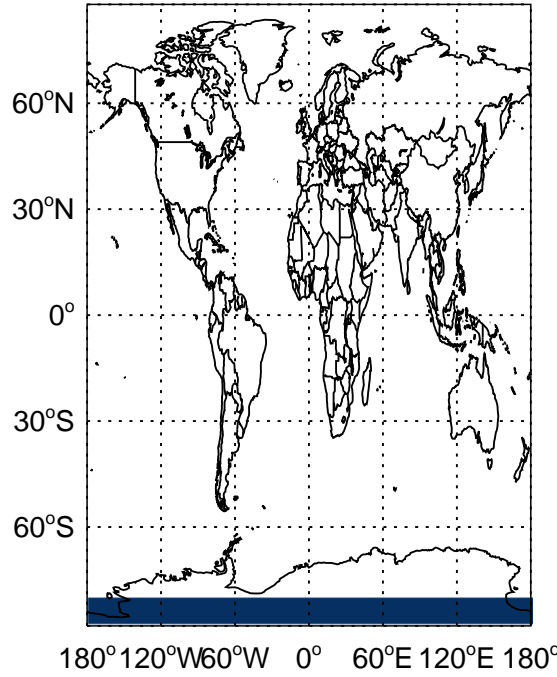
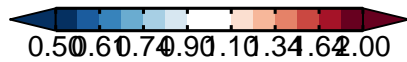
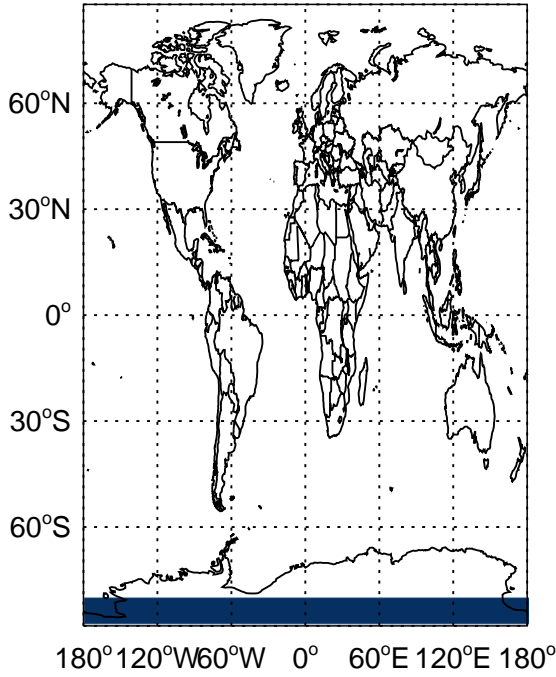
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JBrNO2 - J-Value Ratio @ surface for Jul

JBrNO2 - J-Value Ratio @ 500 hPa for Jul

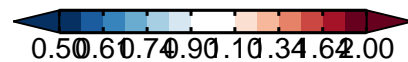
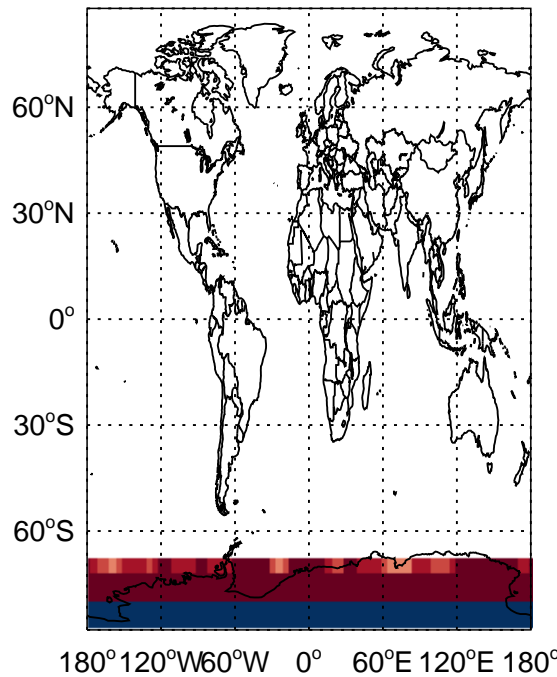
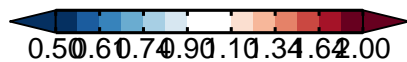
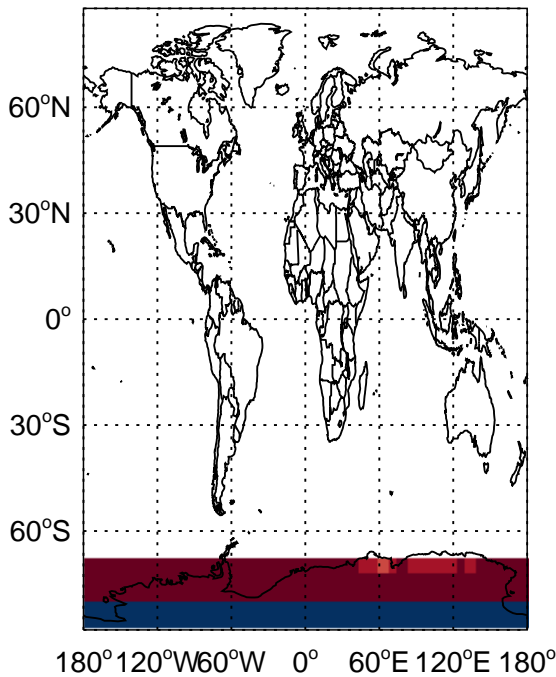


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JBrNO2 - J-Value Ratio @ surface for Jul

JBrNO2 - J-Value Ratio @ 500 hPa for Jul



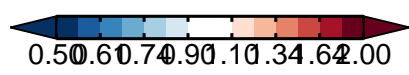
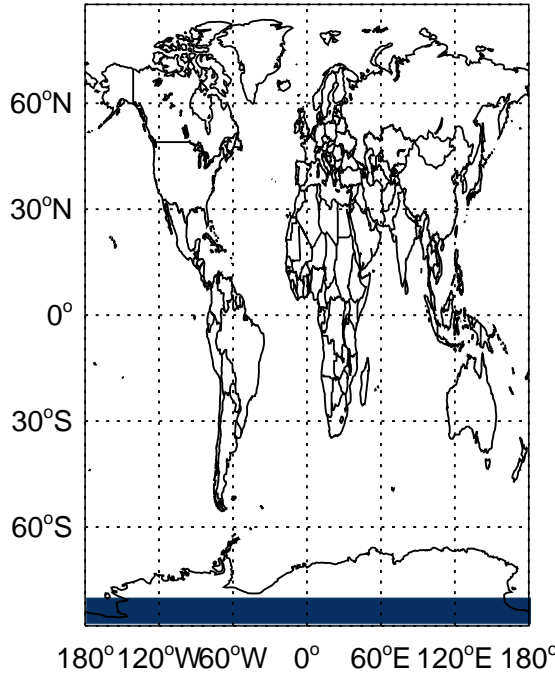
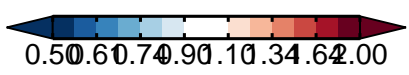
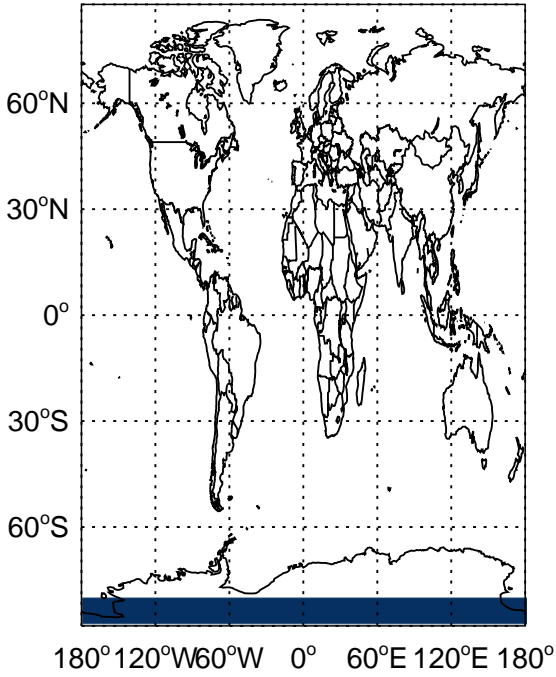
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JBrNO3 - J-Value Ratio @ surface for Jul

JBrNO3 - J-Value Ratio @ 500 hPa for Jul

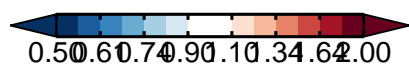
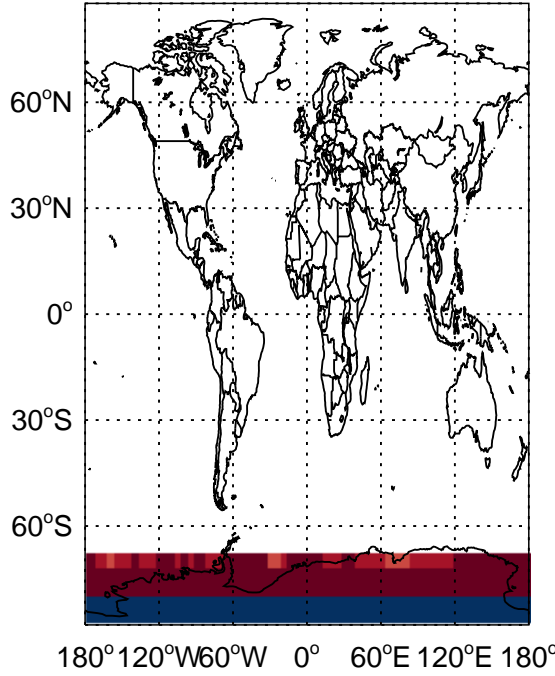
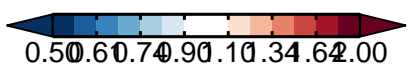
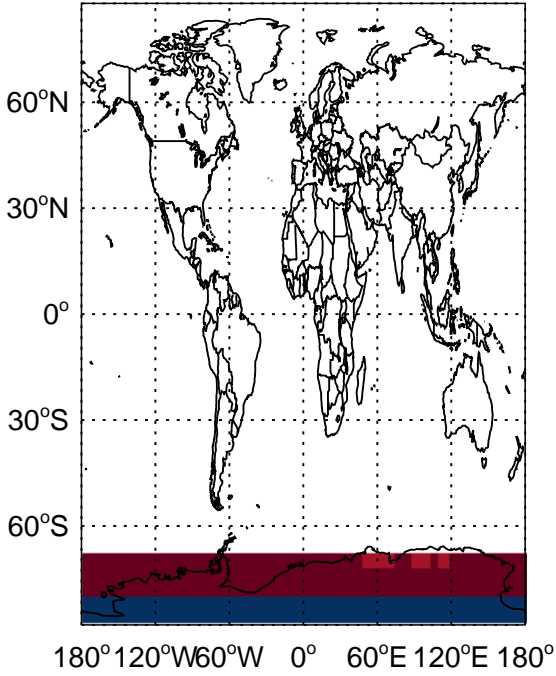


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JBrNO3 - J-Value Ratio @ surface for Jul

JBrNO3 - J-Value Ratio @ 500 hPa for Jul



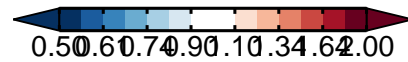
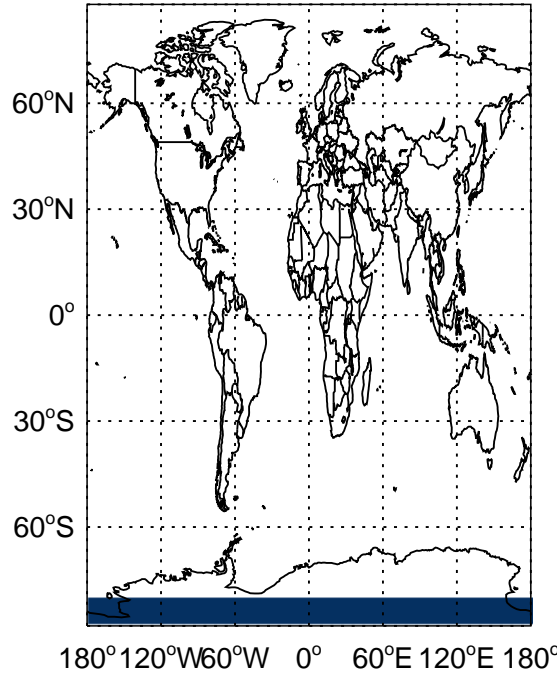
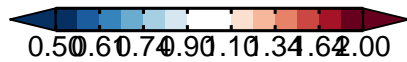
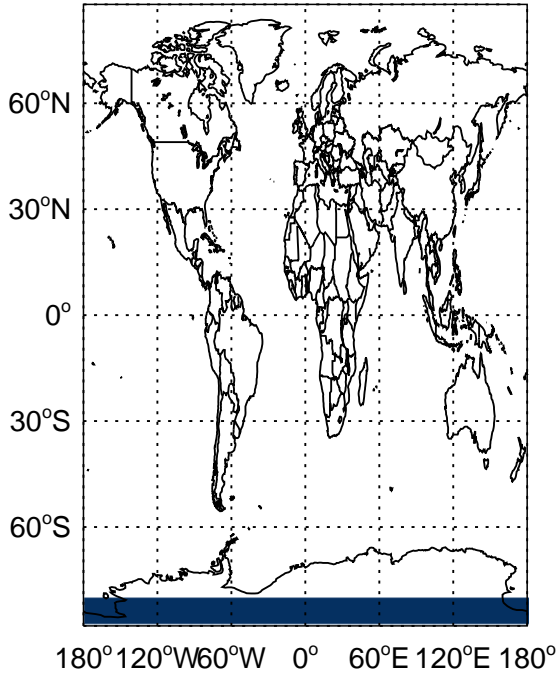
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JCHBr3 - J-Value Ratio @ surface for Jul

JCHBr3 - J-Value Ratio @ 500 hPa for Jul

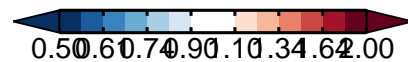
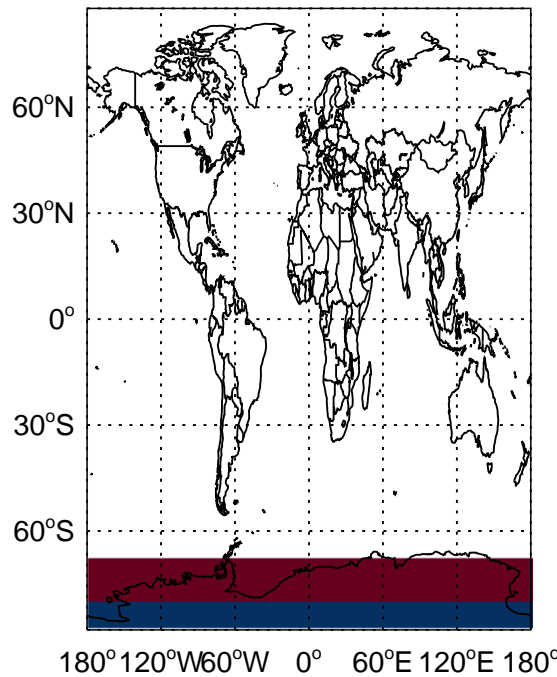
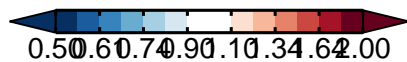
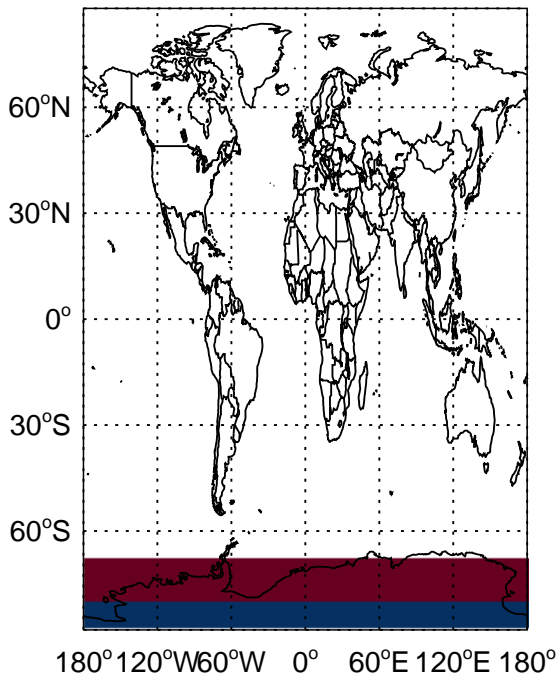


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JCHBr3 - J-Value Ratio @ surface for Jul

JCHBr3 - J-Value Ratio @ 500 hPa for Jul





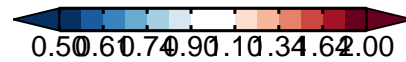
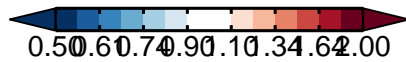
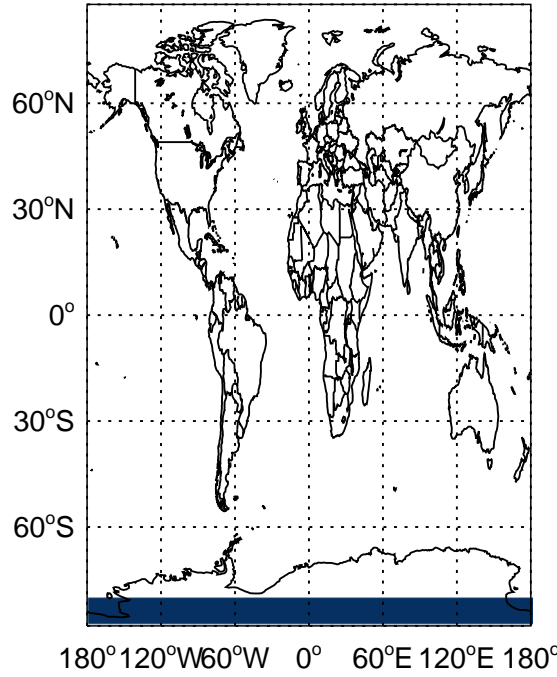
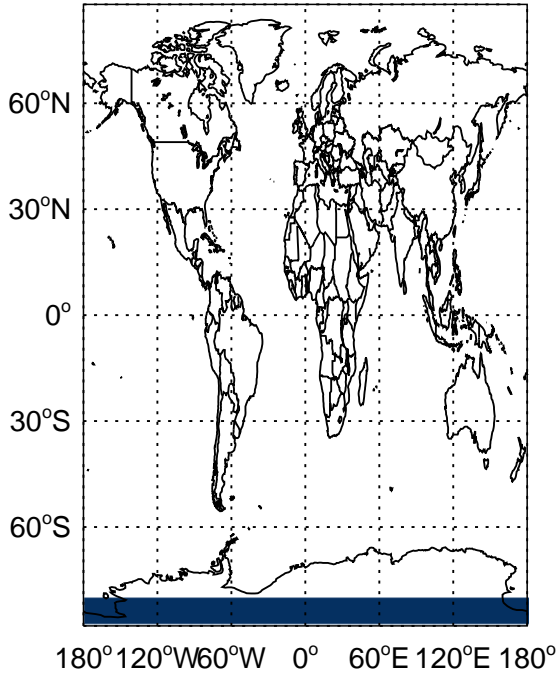
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JHAC - J-Value Ratio @ surface for Jul

JHAC - J-Value Ratio @ 500 hPa for Jul

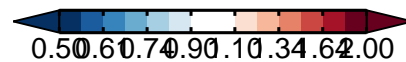
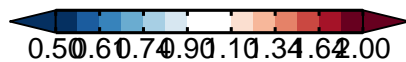
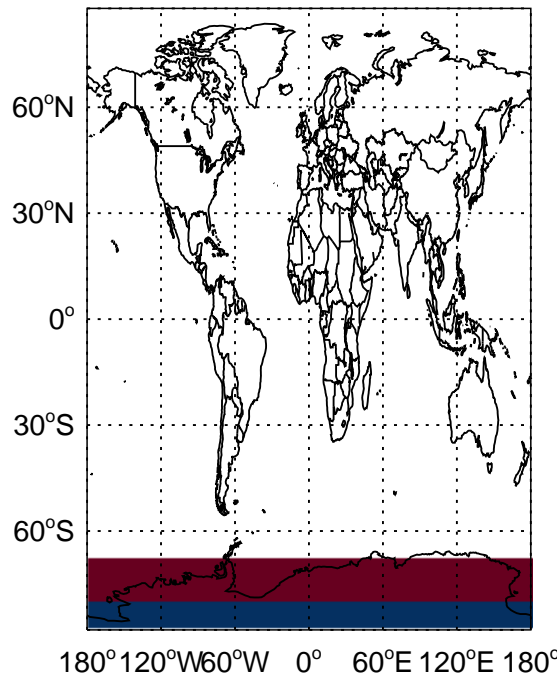
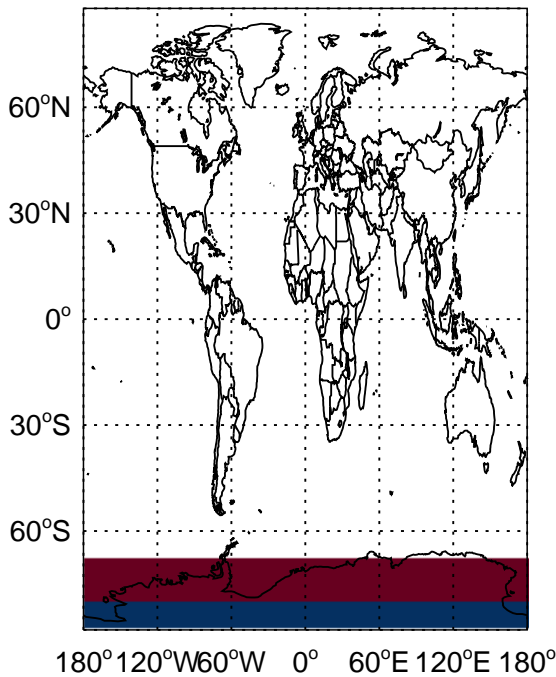


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JHAC - J-Value Ratio @ surface for Jul

JHAC - J-Value Ratio @ 500 hPa for Jul



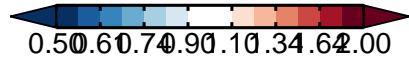
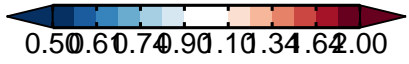
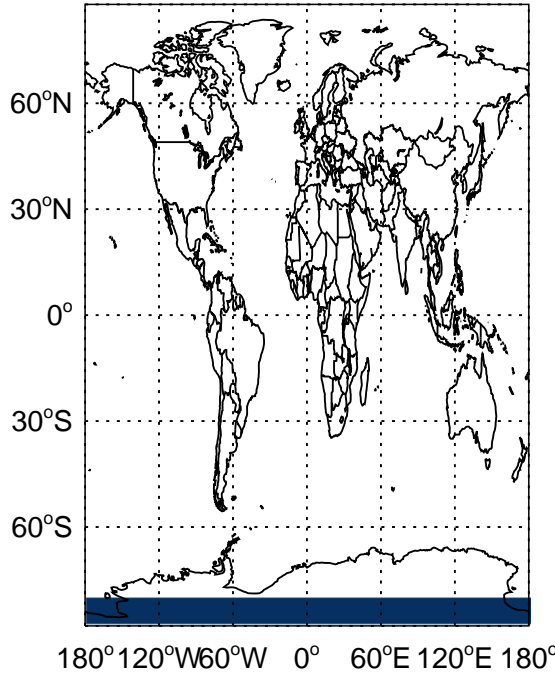
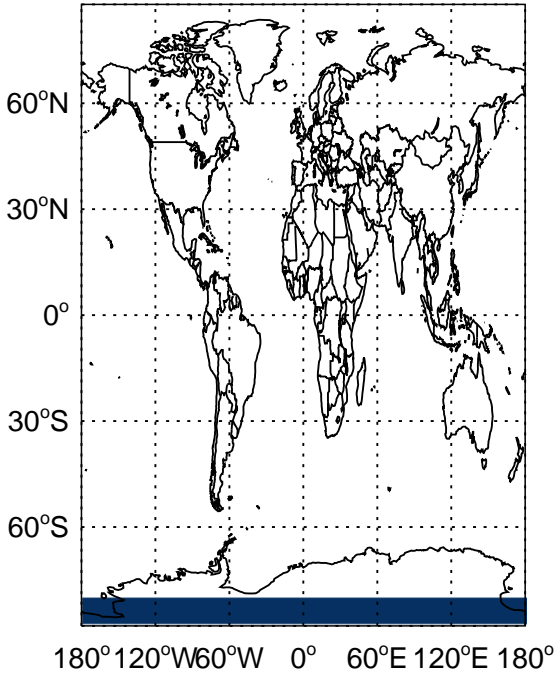
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JGLYC - J-Value Ratio @ surface for Jul

JGLYC - J-Value Ratio @ 500 hPa for Jul

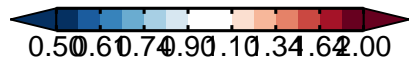
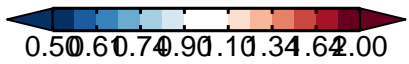
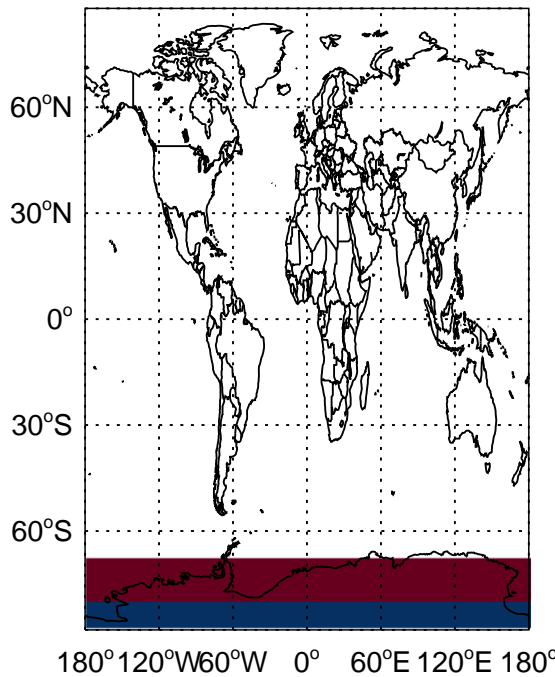
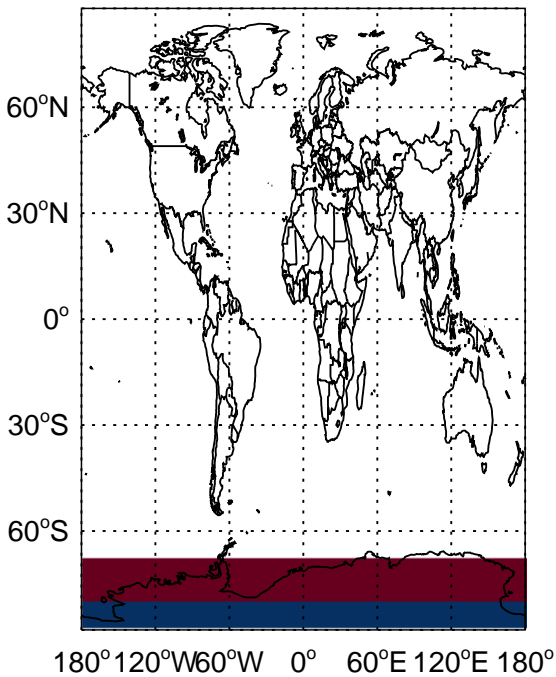


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JGLYC - J-Value Ratio @ surface for Jul

JGLYC - J-Value Ratio @ 500 hPa for Jul



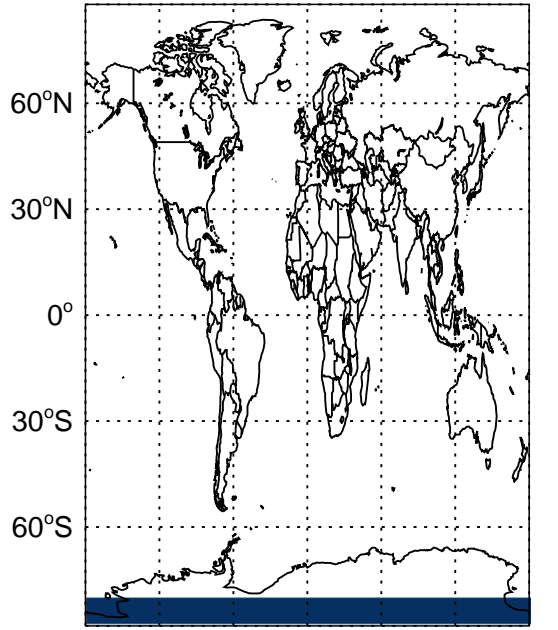
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

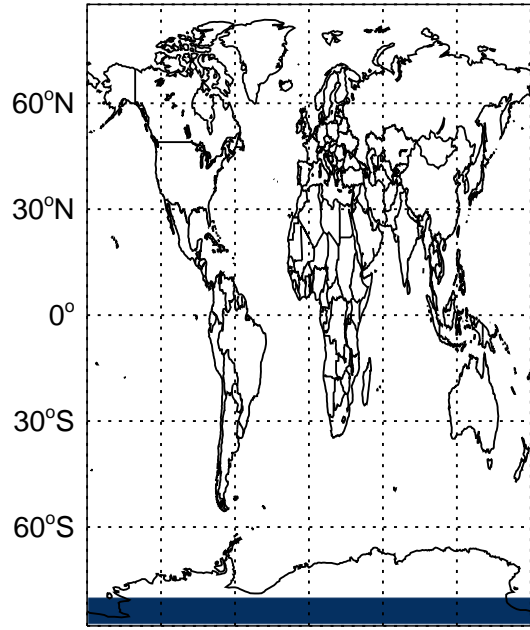
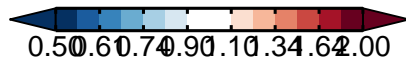
v11-01k-Run0 - v11-01g-Run0

JNO2 - J-Value Ratio @ surface for Jul

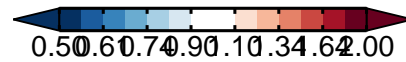
JNO2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

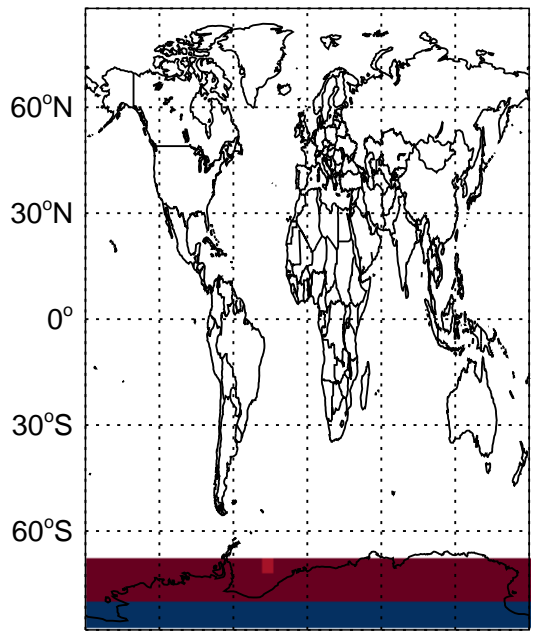


v11-01k-Run0 - v11-01f-geosfp-Run0

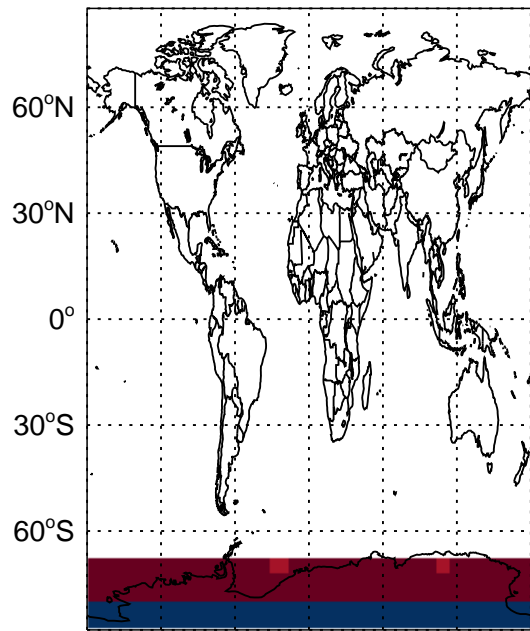
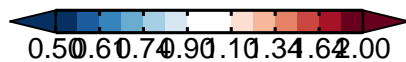
v11-01k-Run0 - v11-01f-geosfp-Run0

JNO2 - J-Value Ratio @ surface for Jul

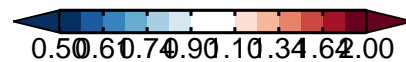
JNO2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



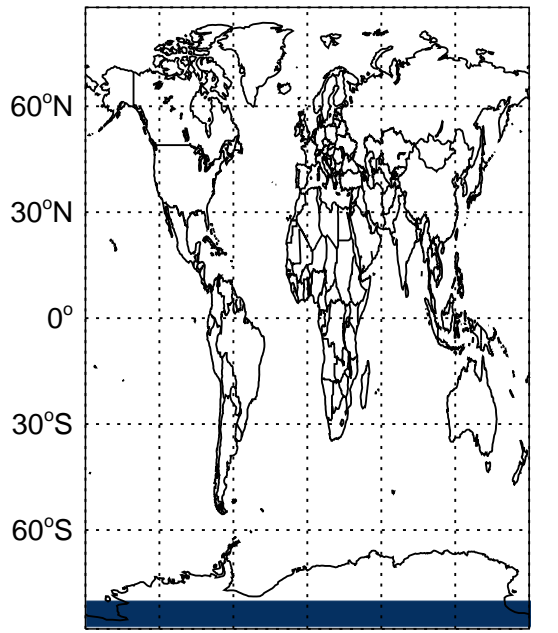
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

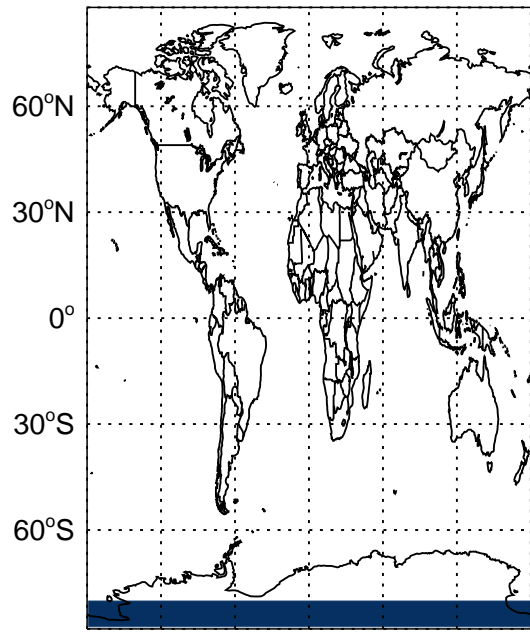
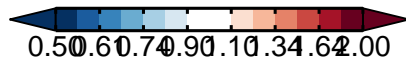
v11-01k-Run0 - v11-01g-Run0

JNO3 - J-Value Ratio @ surface for Jul

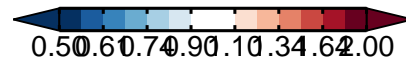
JNO3 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

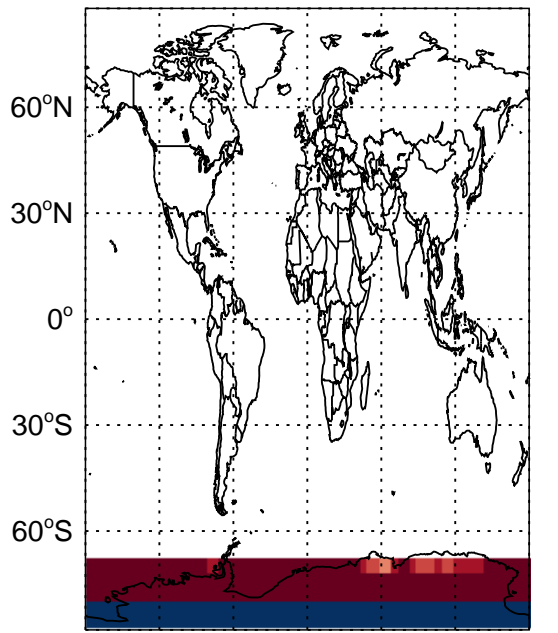


v11-01k-Run0 - v11-01f-geosfp-Run0

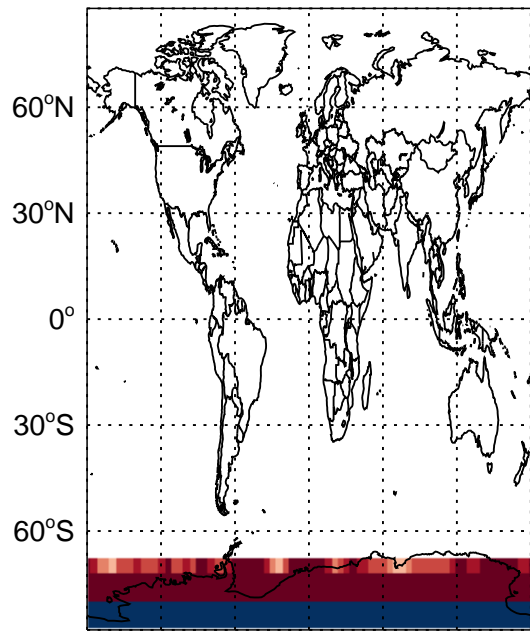
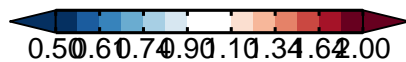
v11-01k-Run0 - v11-01f-geosfp-Run0

JNO3 - J-Value Ratio @ surface for Jul

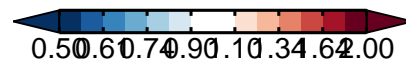
JNO3 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



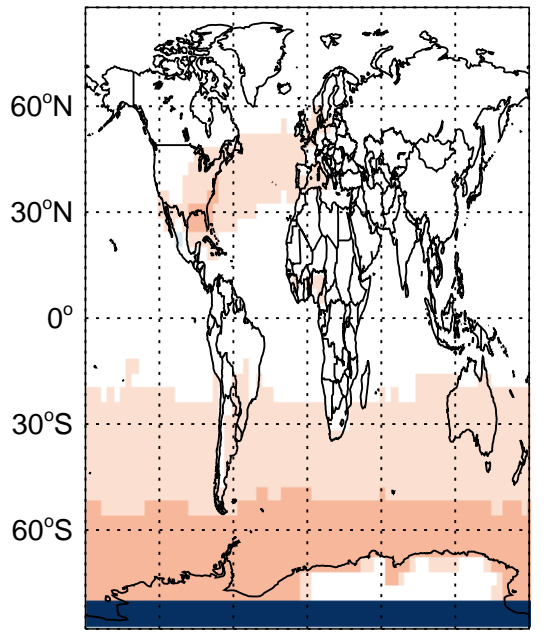
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

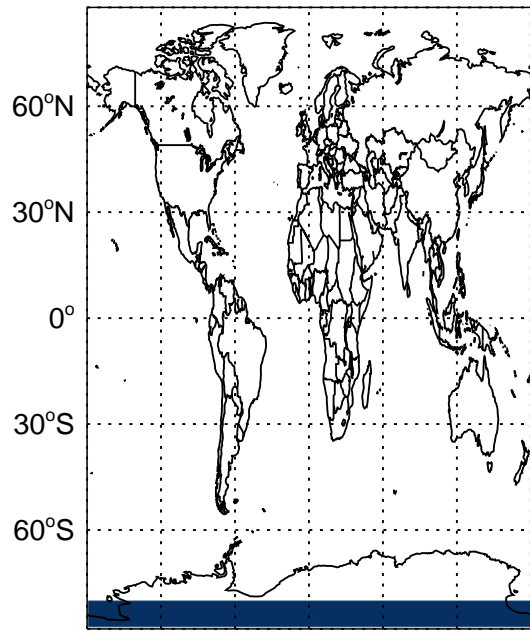
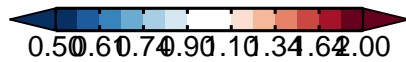
v11-01k-Run0 - v11-01g-Run0

JN2O - J-Value Ratio @ surface for Jul

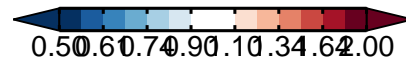
JN2O - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

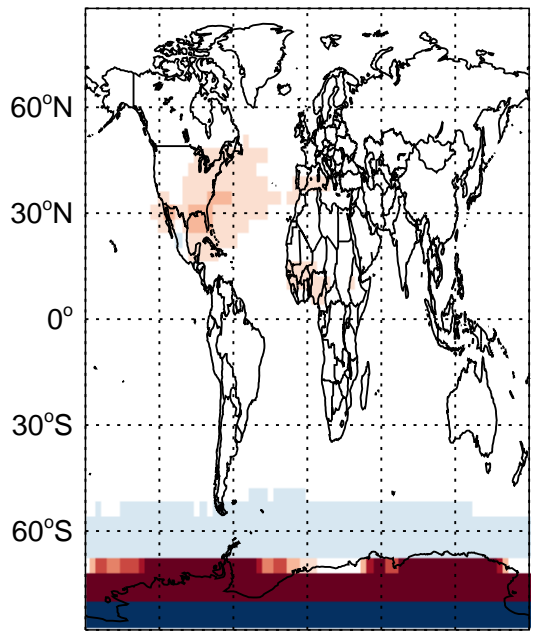


v11-01k-Run0 - v11-01f-geosfp-Run0

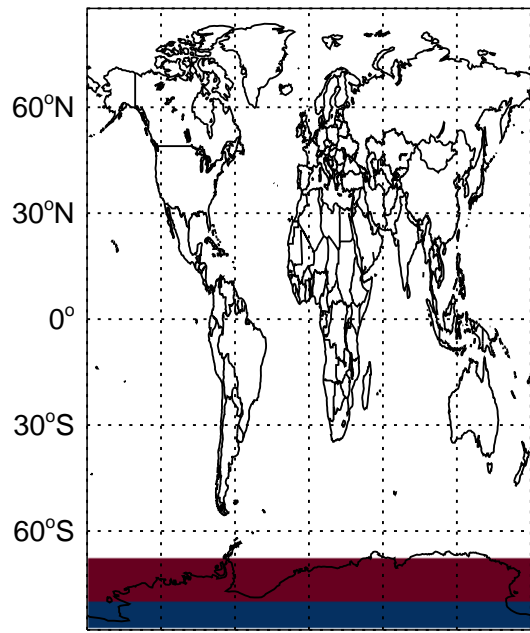
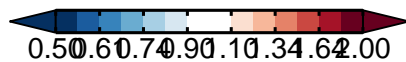
v11-01k-Run0 - v11-01f-geosfp-Run0

JN2O - J-Value Ratio @ surface for Jul

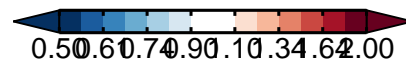
JN2O - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



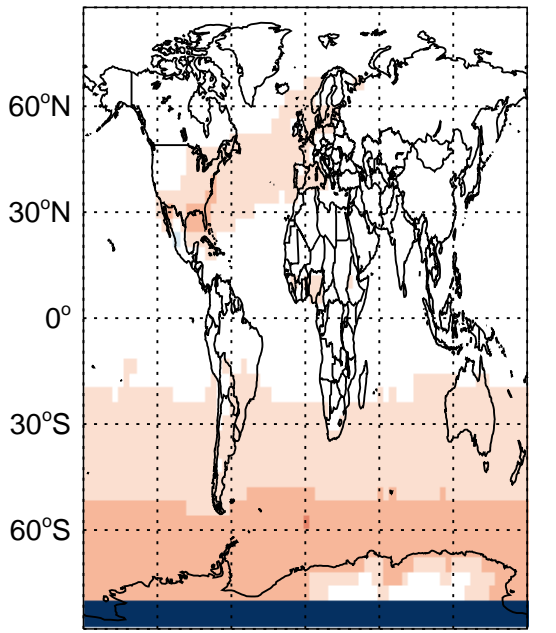
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

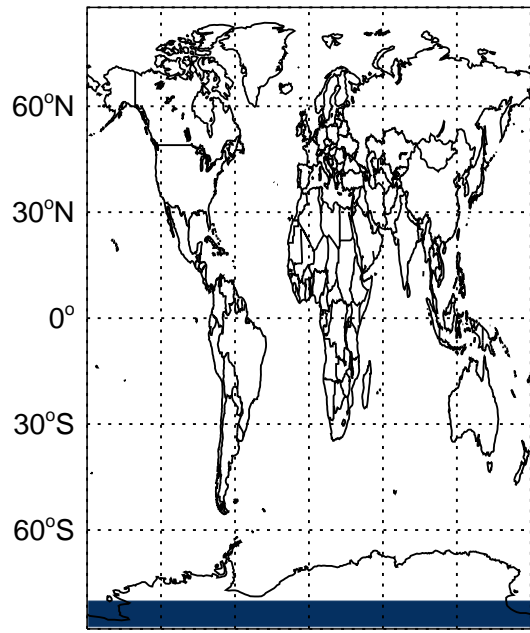
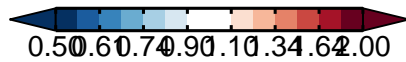
v11-01k-Run0 - v11-01g-Run0

JCCI4 - J-Value Ratio @ surface for JCCI4

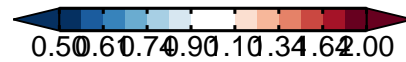
JCCI4 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

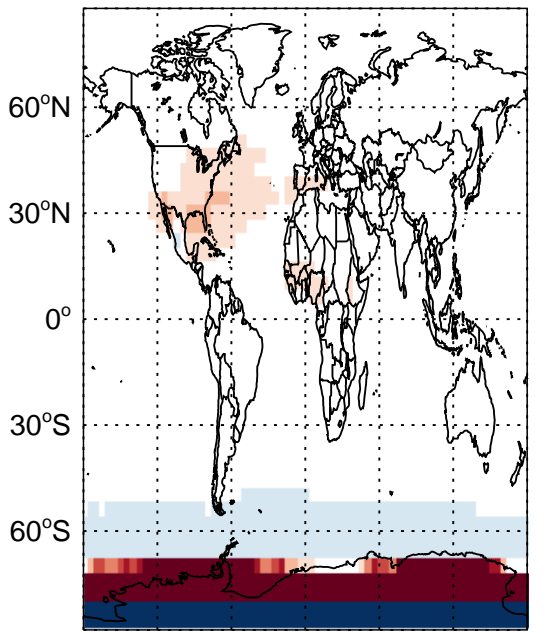


v11-01k-Run0 - v11-01f-geosfp-Run0

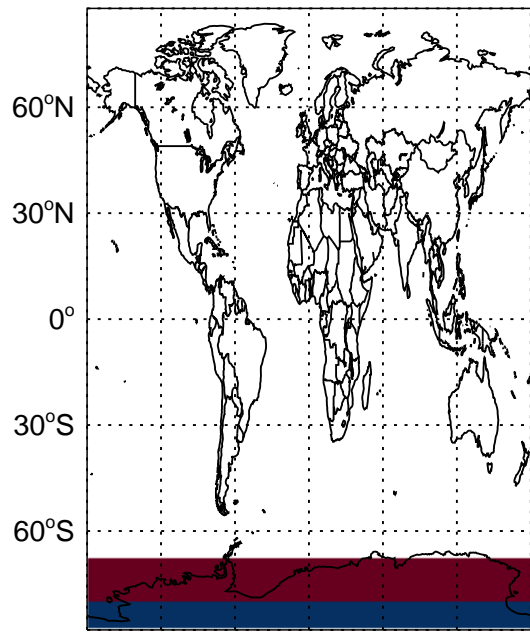
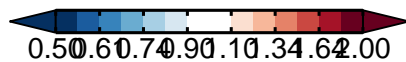
v11-01k-Run0 - v11-01f-geosfp-Run0

JCCI4 - J-Value Ratio @ surface for JCCI4

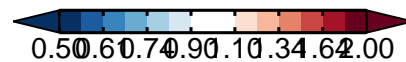
JCCI4 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°



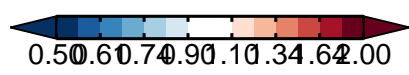
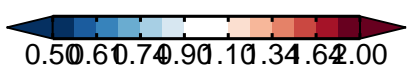
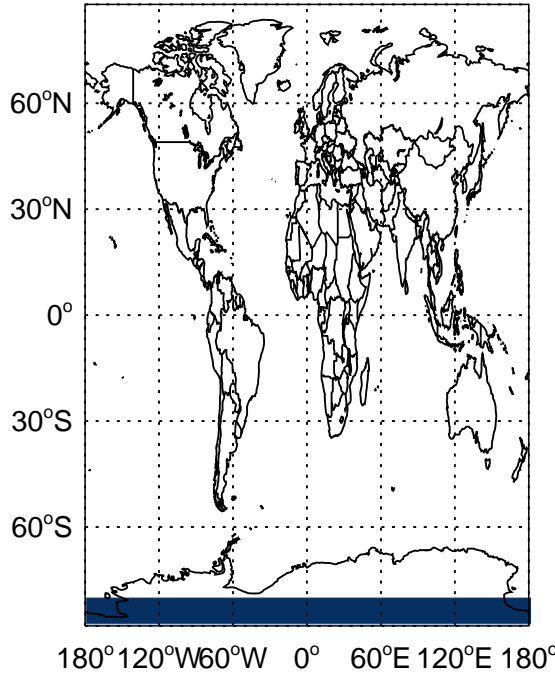
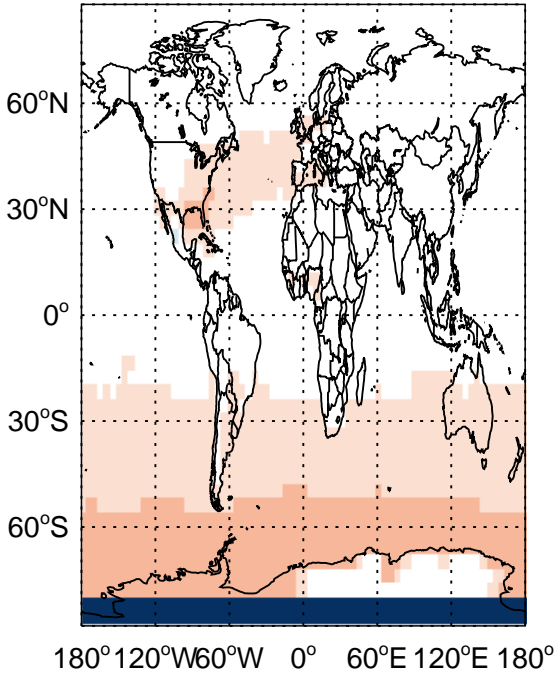
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JCH3Cl - J-Value Ratio @ surface for Jul

JCH3Cl - J-Value Ratio @ 500 hPa for Jul

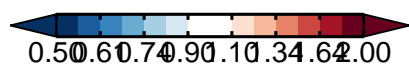
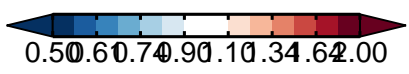
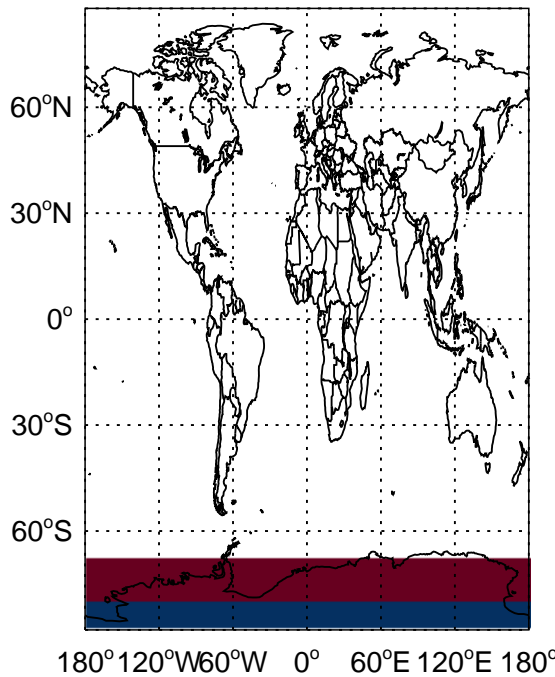
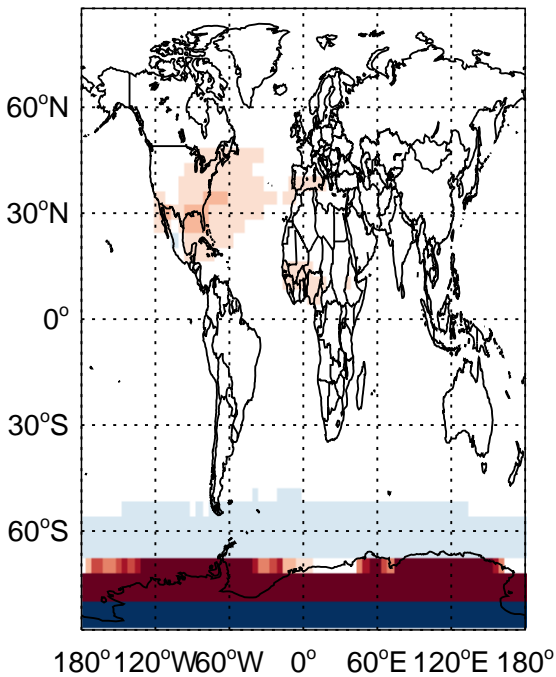


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JCH3Cl - J-Value Ratio @ surface for Jul

JCH3Cl - J-Value Ratio @ 500 hPa for Jul



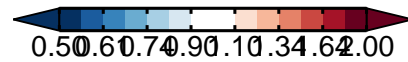
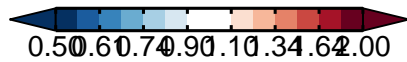
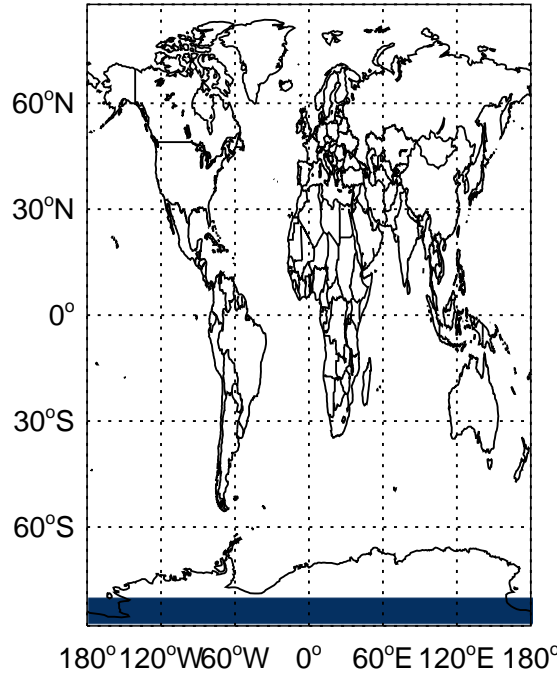
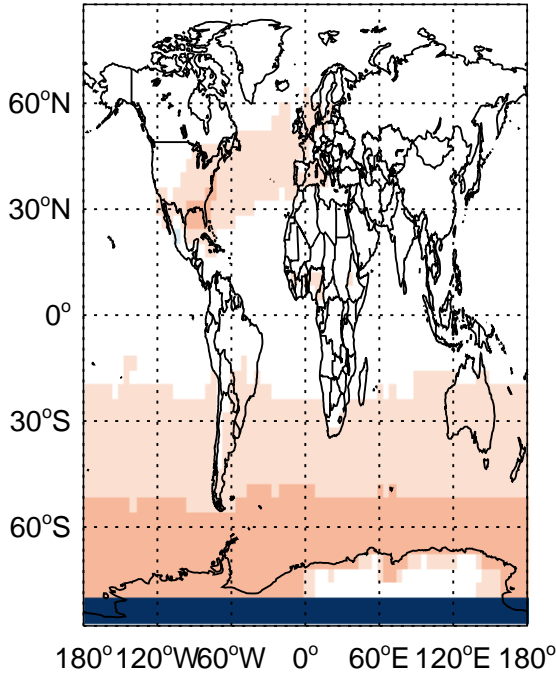
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JCFC11 - J-Value Ratio @ surface for Jul

JCFC11 - J-Value Ratio @ 500 hPa for Jul

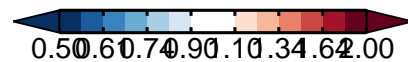
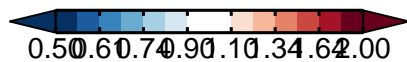
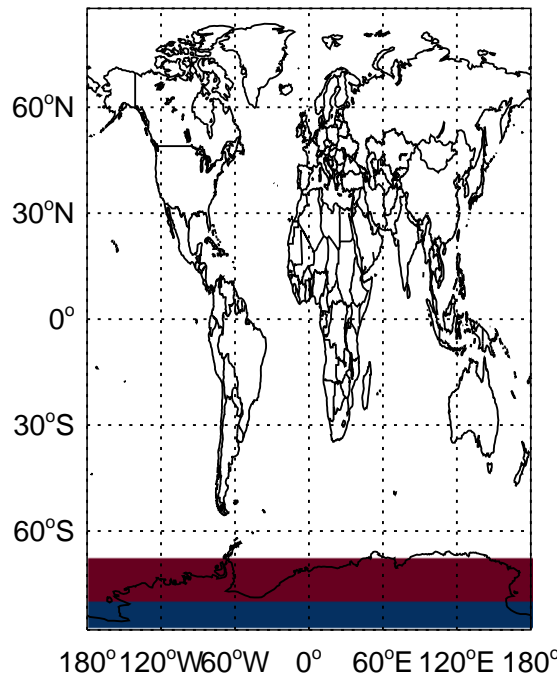
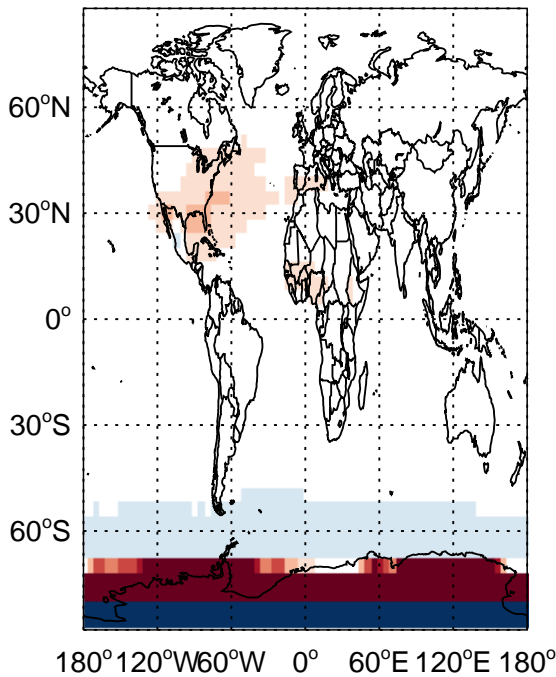


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JCFC11 - J-Value Ratio @ surface for Jul

JCFC11 - J-Value Ratio @ 500 hPa for Jul





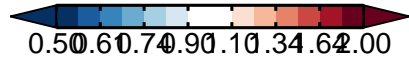
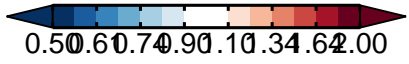
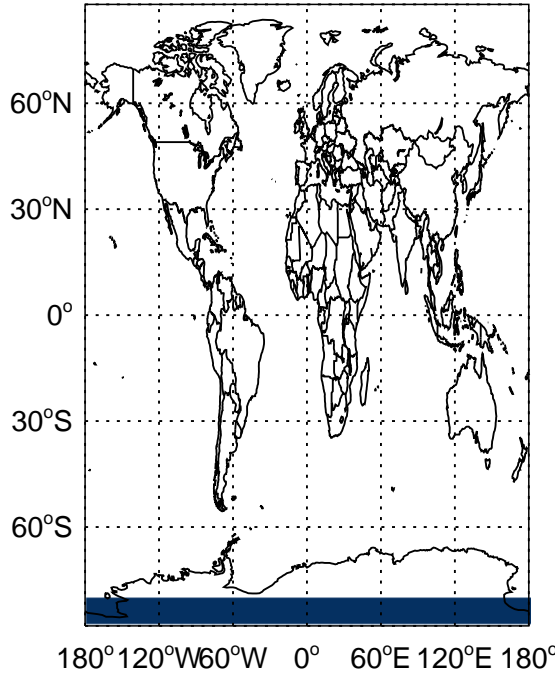
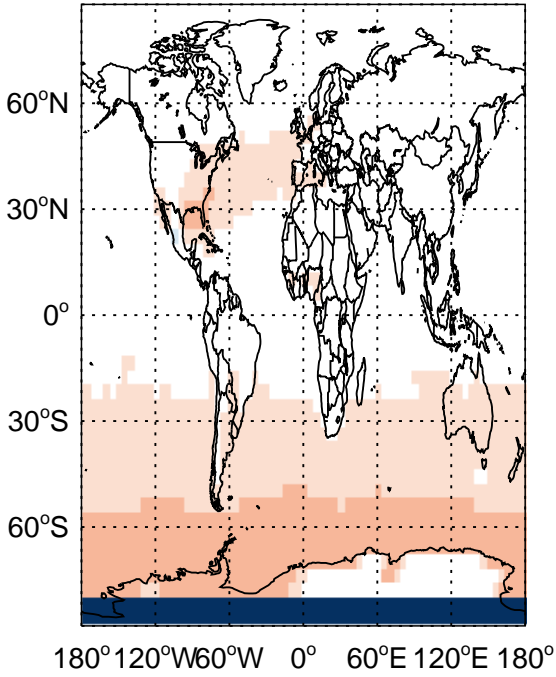
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

v11-01k-Run0 - v11-01g-Run0

JCFC12 - J-Value Ratio @ surface for Jul

JCFC12 - J-Value Ratio @ 500 hPa for Jul

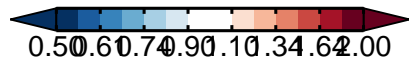
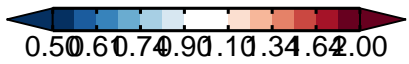
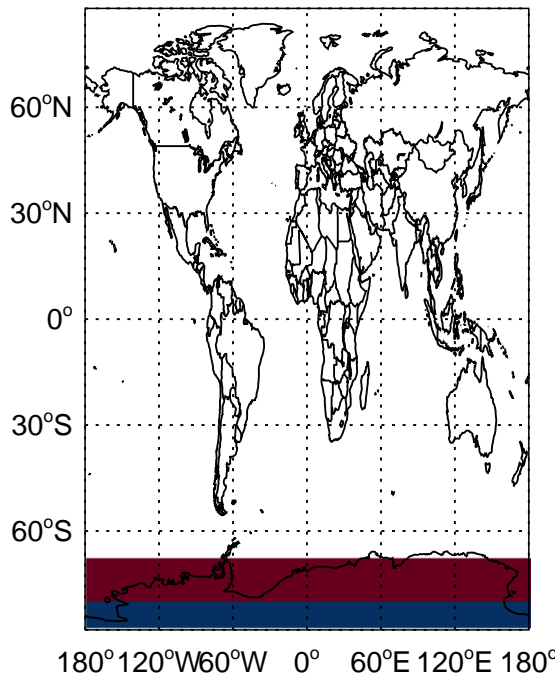
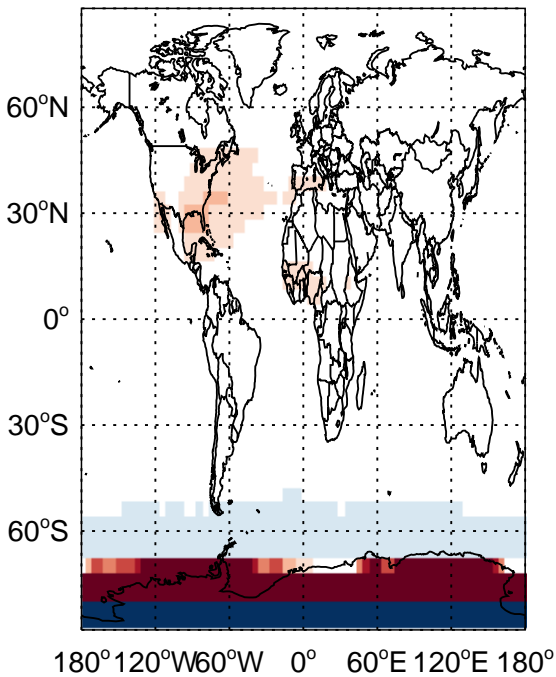


v11-01k-Run0 - v11-01f-geosfp-Run0

v11-01k-Run0 - v11-01f-geosfp-Run0

JCFC12 - J-Value Ratio @ surface for Jul

JCFC12 - J-Value Ratio @ 500 hPa for Jul



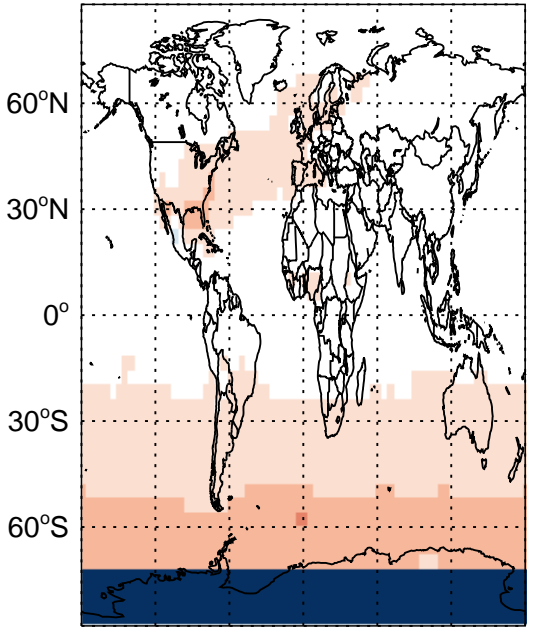
GEOS-Chem J-Values at surface and 500 hPa

v11-01k-Run0 - v11-01g-Run0

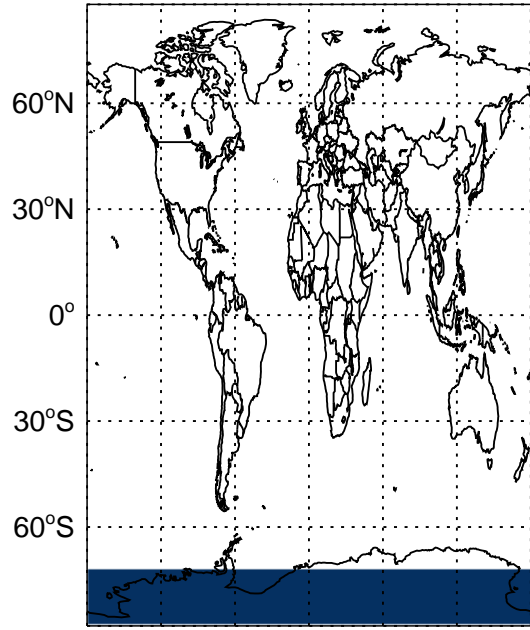
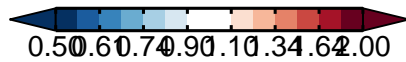
v11-01k-Run0 - v11-01g-Run0

JO2 - J-Value Ratio @ surface for Jul

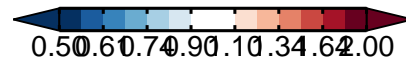
JO2 - J-Value Ratio @ 500 hPa for Jul



180° 120°W 60°W 0° 60°E 120°E 180°

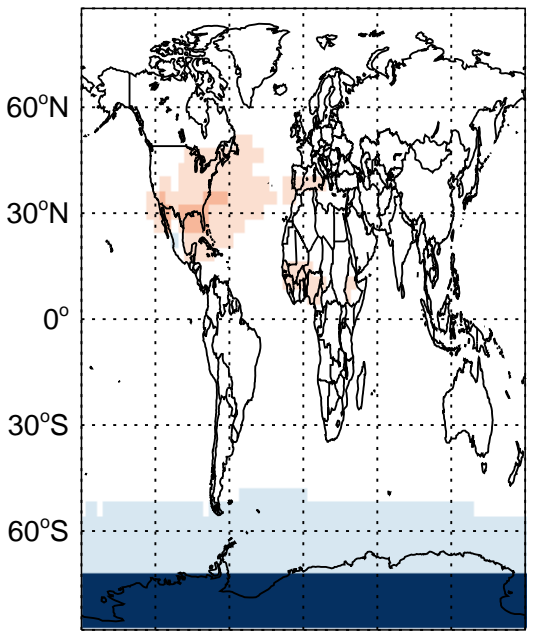


180° 120°W 60°W 0° 60°E 120°E 180°

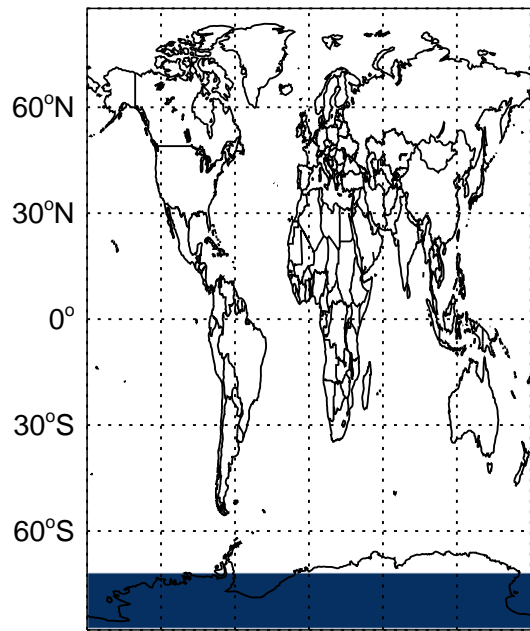
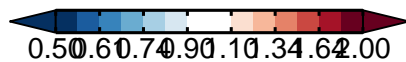


v11-01k-Run0 - v11-01f-geosfp-Run0

JO2 - J-Value Ratio @ surface for Jul



180° 120°W 60°W 0° 60°E 120°E 180°



180° 120°W 60°W 0° 60°E 120°E 180°

