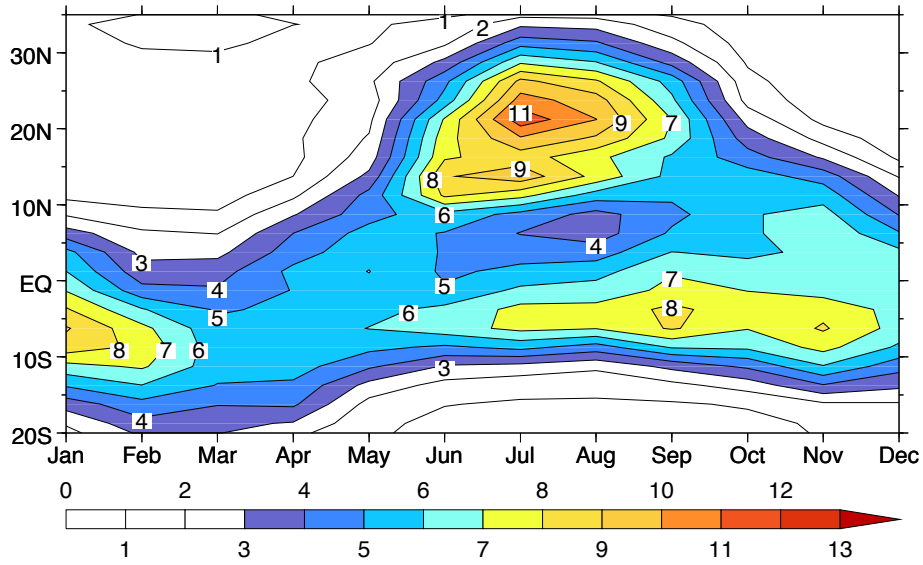
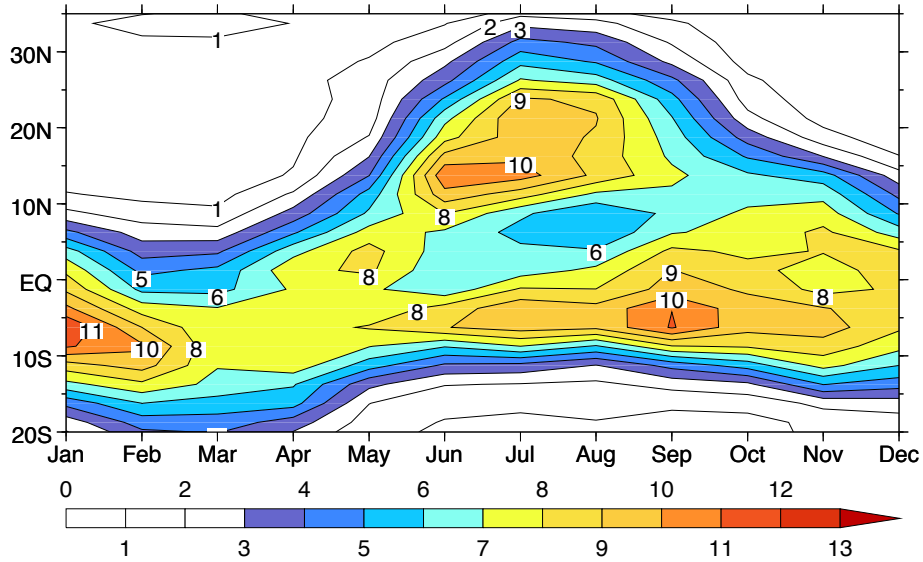


Fig. 4 a-f Annual cycle climatology for rainfall rate averaged between 70°E-90°E from **a** GPCP, **b** CMAP, **c** MIROC5, **d** csiro-mk3.5, **e** CMIP5 MMM, and **f** CMIP3 MMM. Also given in **b-f** is the pattern correlation of the model with GPCP over the region 10°S-30°N, for May-September (the dashed region in **a**). The units are (mm day⁻¹). **g** Models stratified by their pattern correlation with GPCP. GPCP and CMAP data are from 1979-2007 and the model data is from 1961-1999

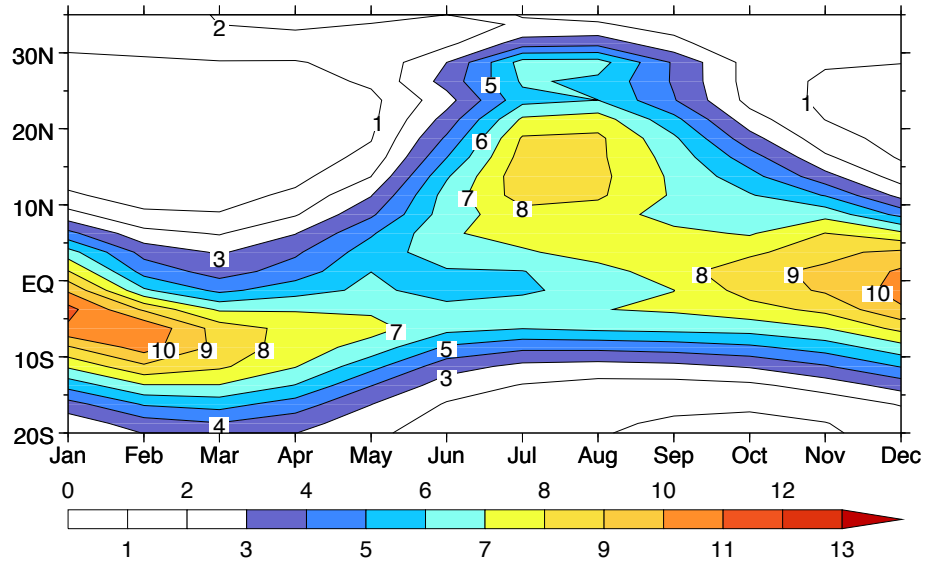
GPCP (1979-2007)



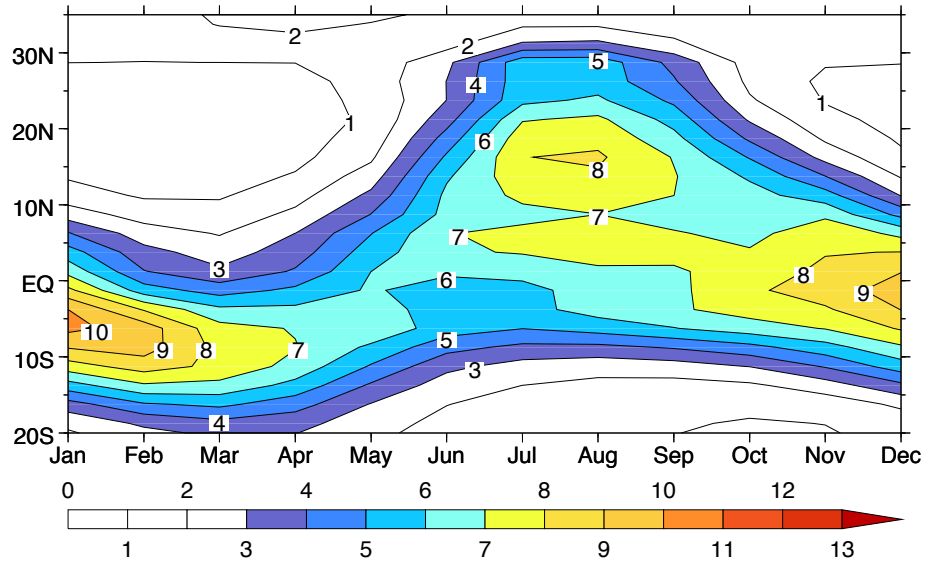
CMAP (1979-2007)



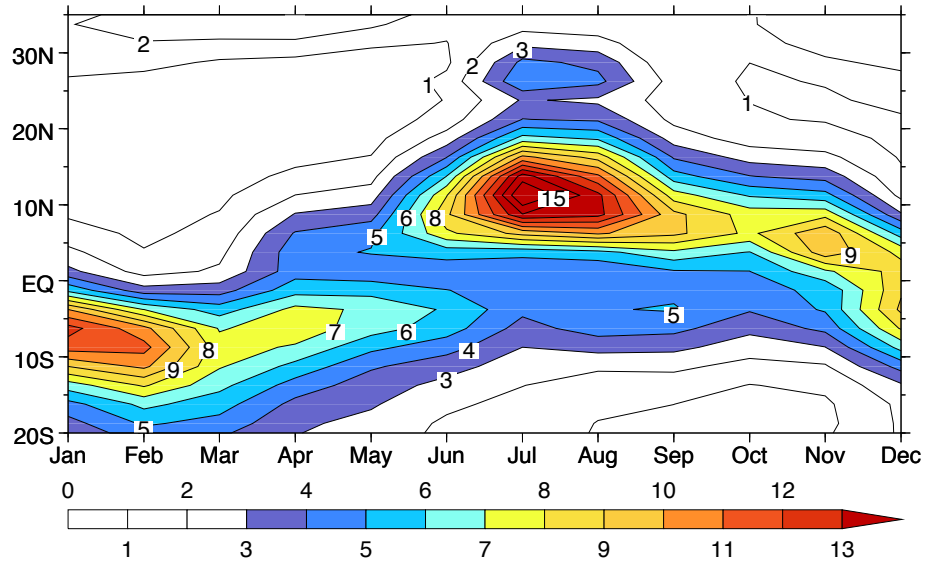
CMIP5 MMM



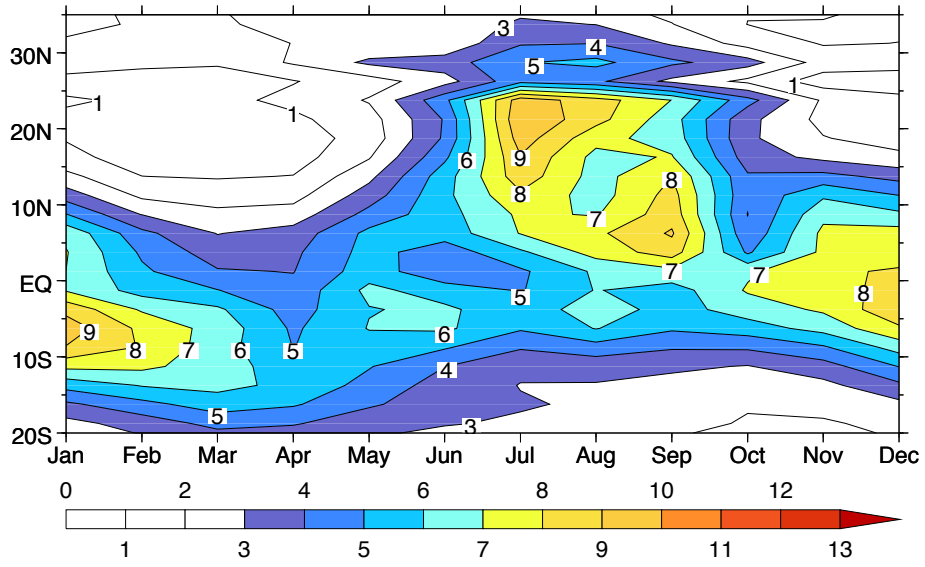
CMIP3 MMM



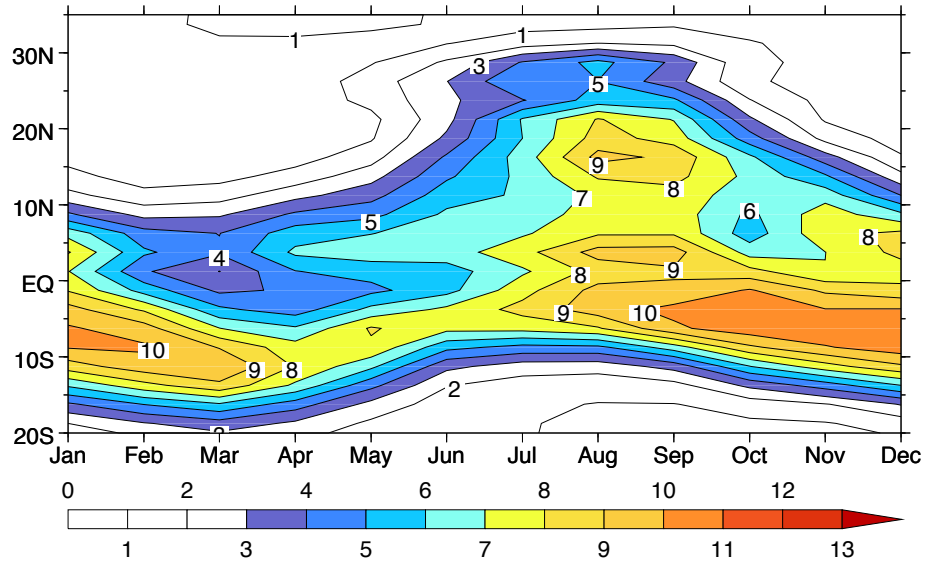
BCC-CSM-1



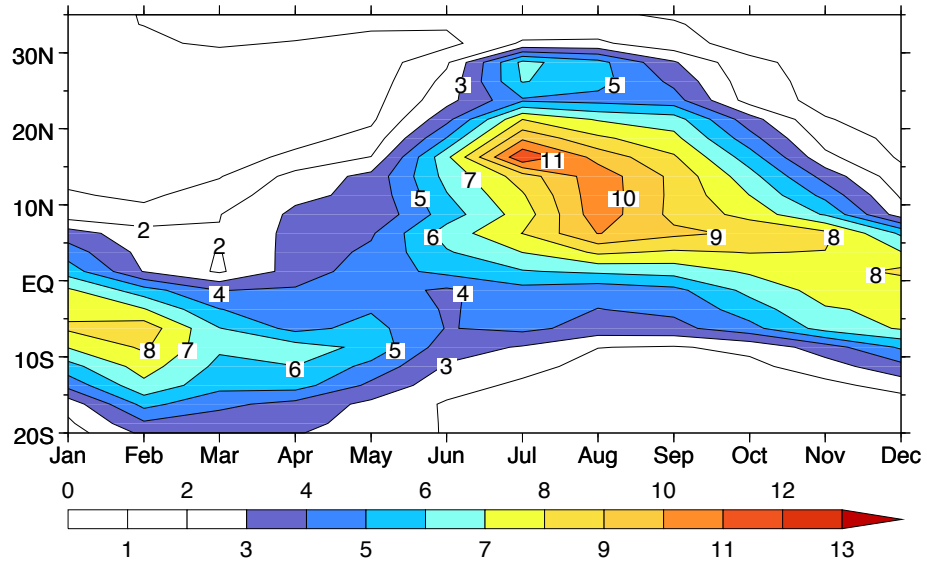
bccr-bcm2.0



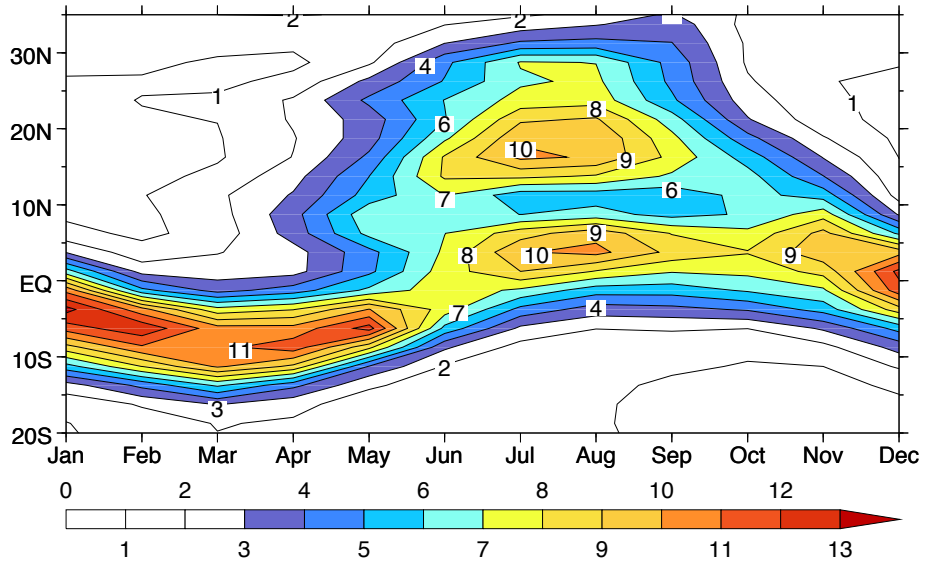
CanESM2



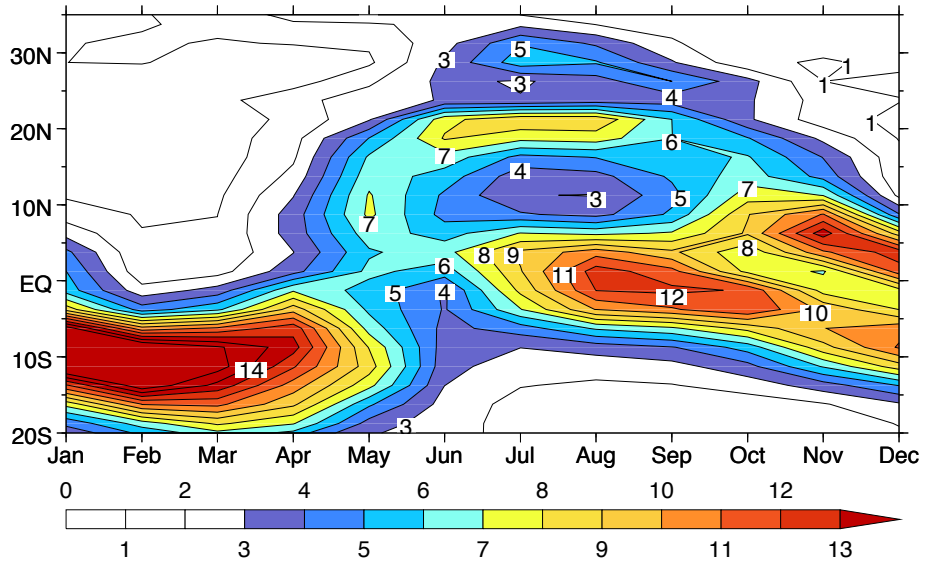
cgcm3.1 (t47)



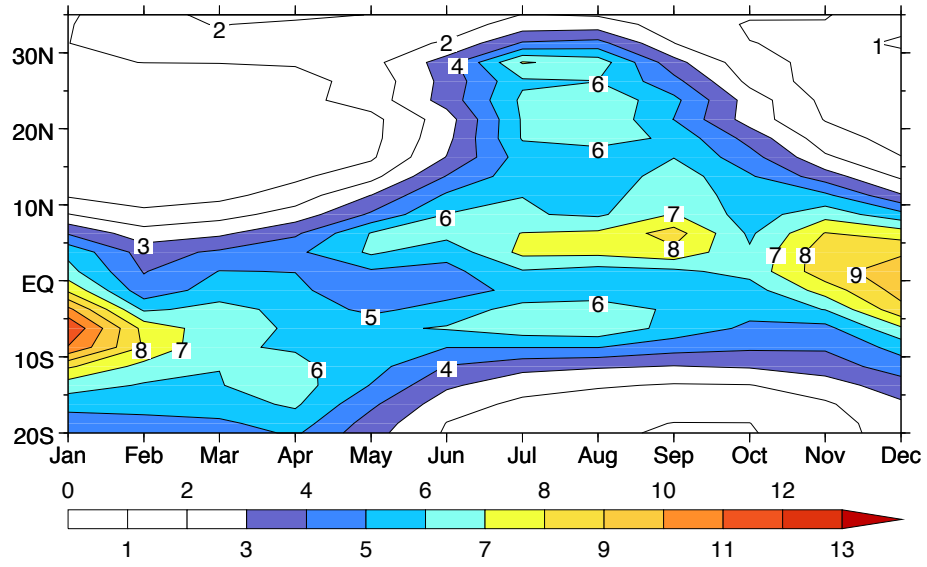
ccsm3



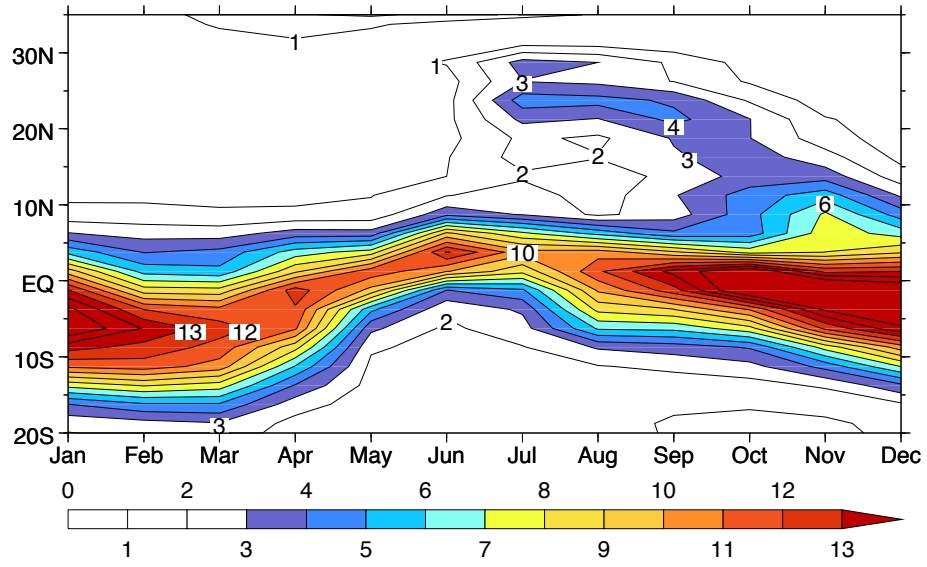
pcml



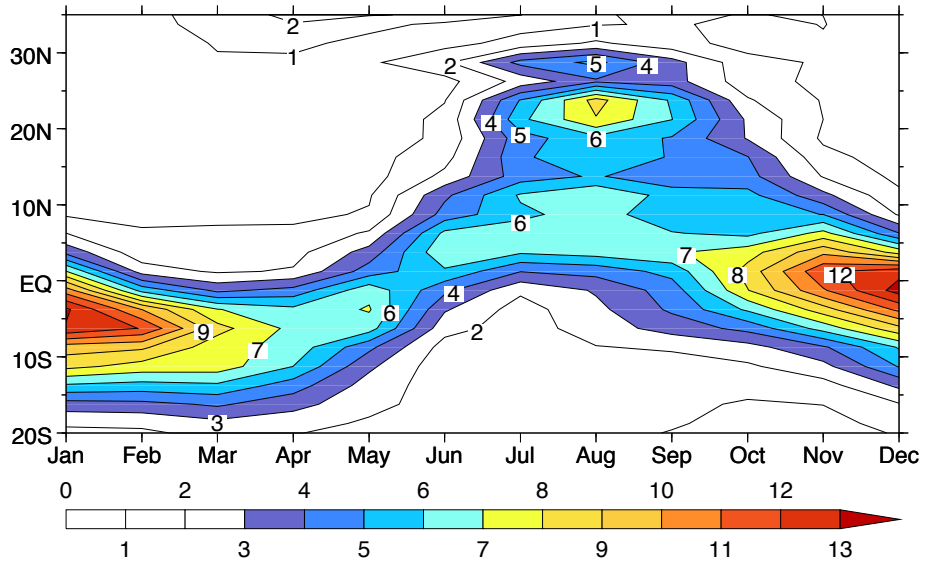
CNRM-CM5



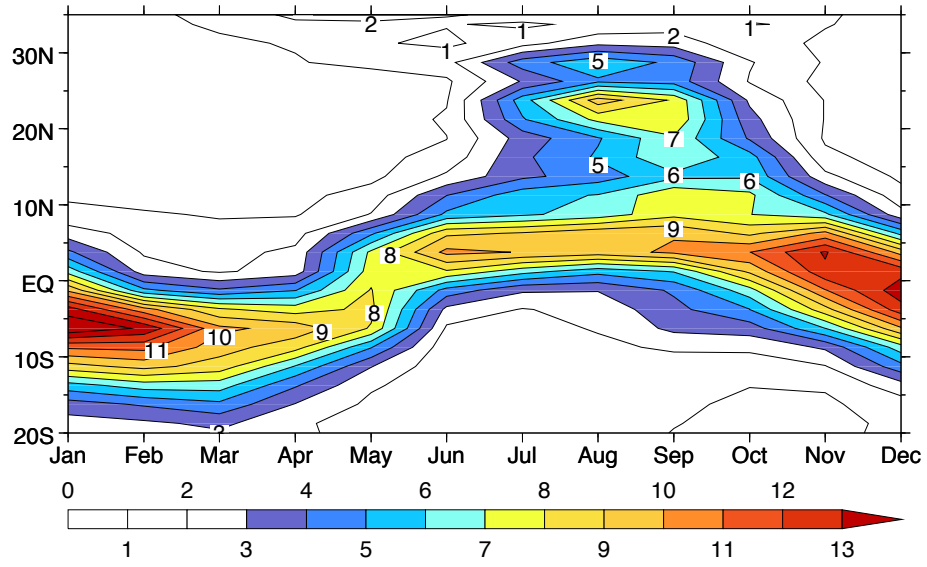
CSIRO-Mk3.6.0



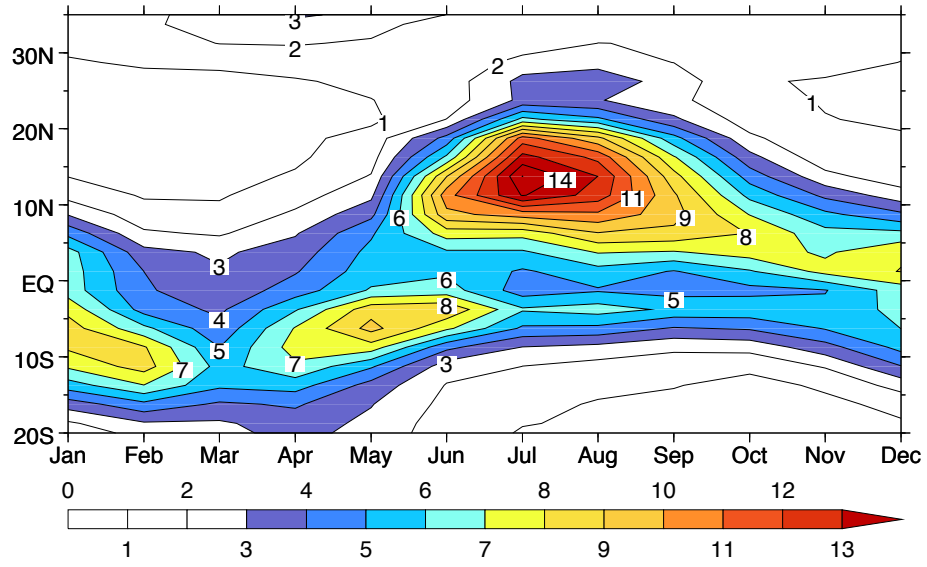
csiro-mk3.0



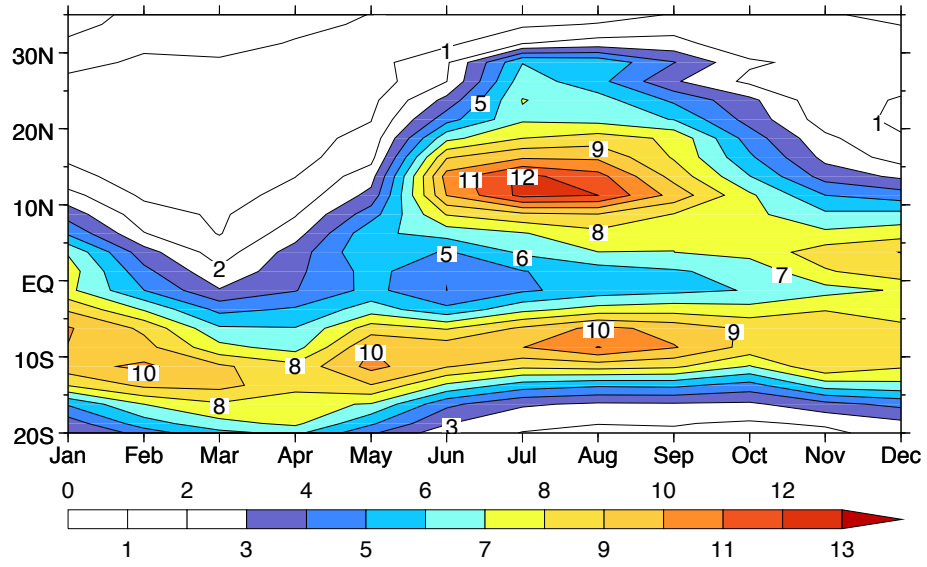
csiro-mk3.5



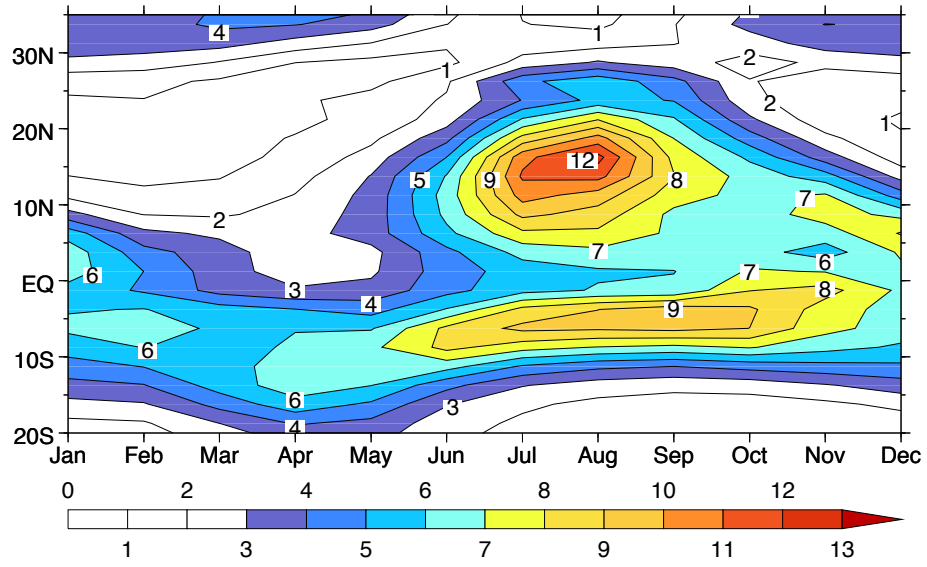
FGOALS-g2



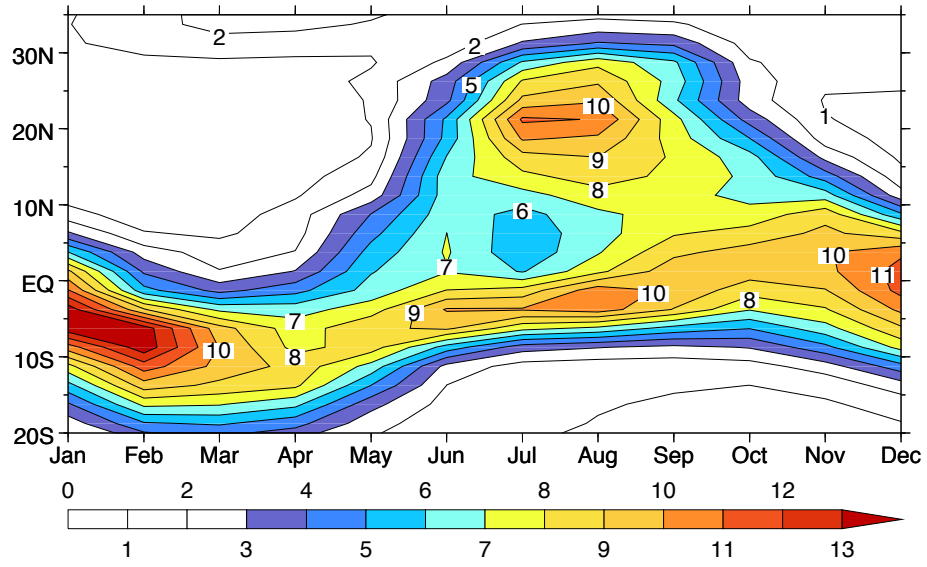
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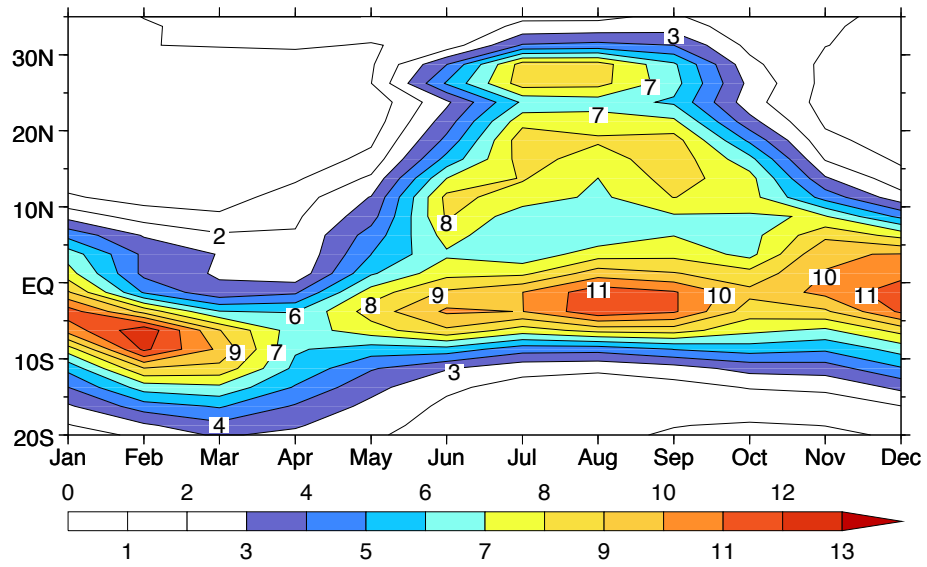
fgoals-g1.0



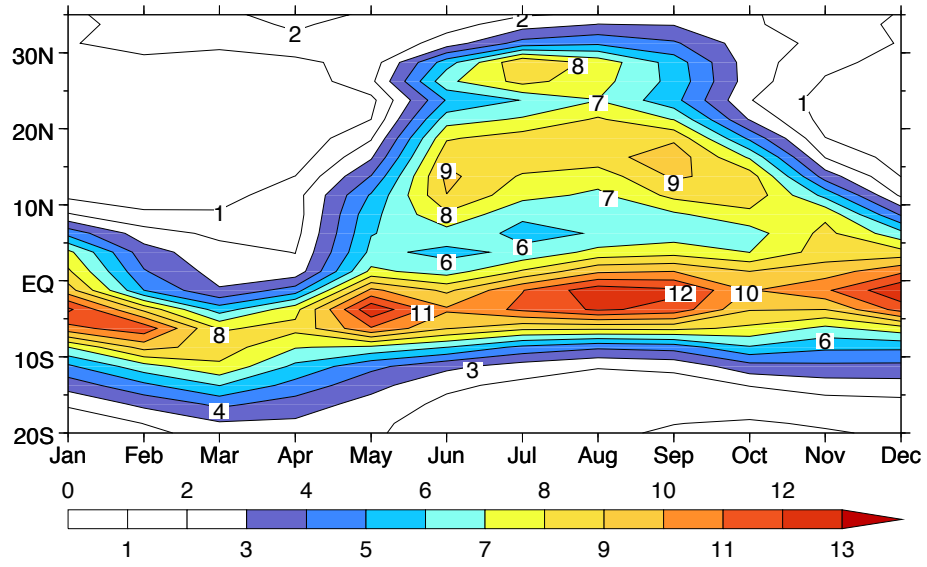
GFDL-CM3



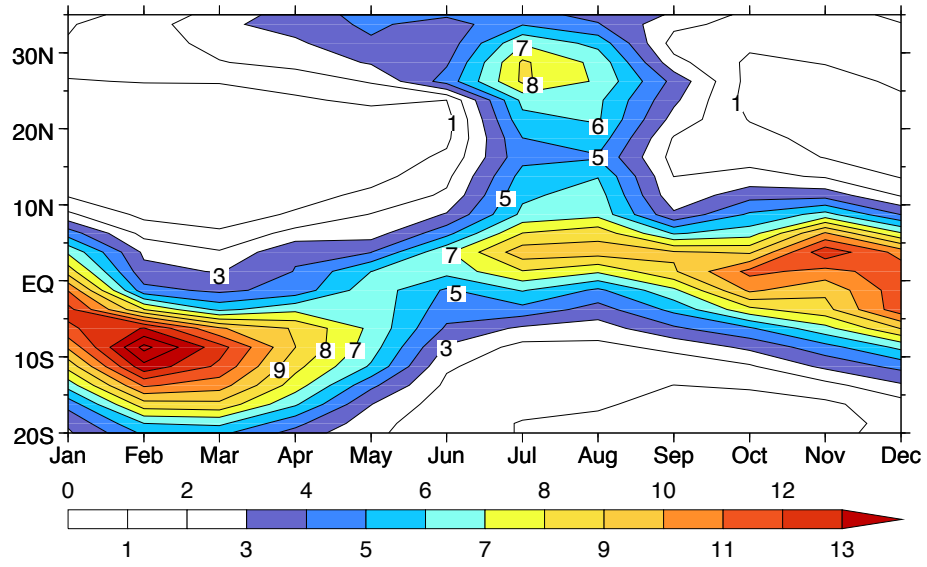
GFDL-ESM2M



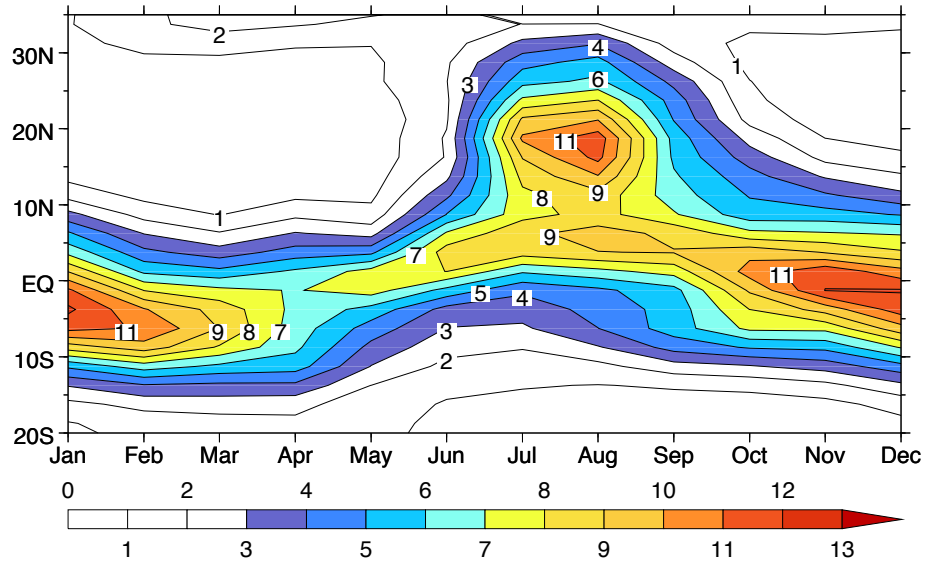
gfdl-cm2.1



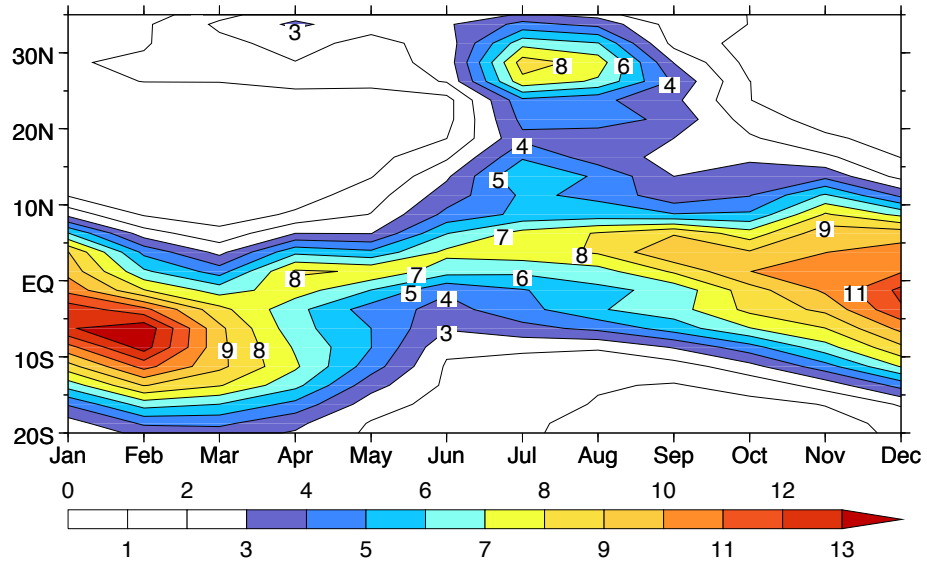
HadGEM2-ES



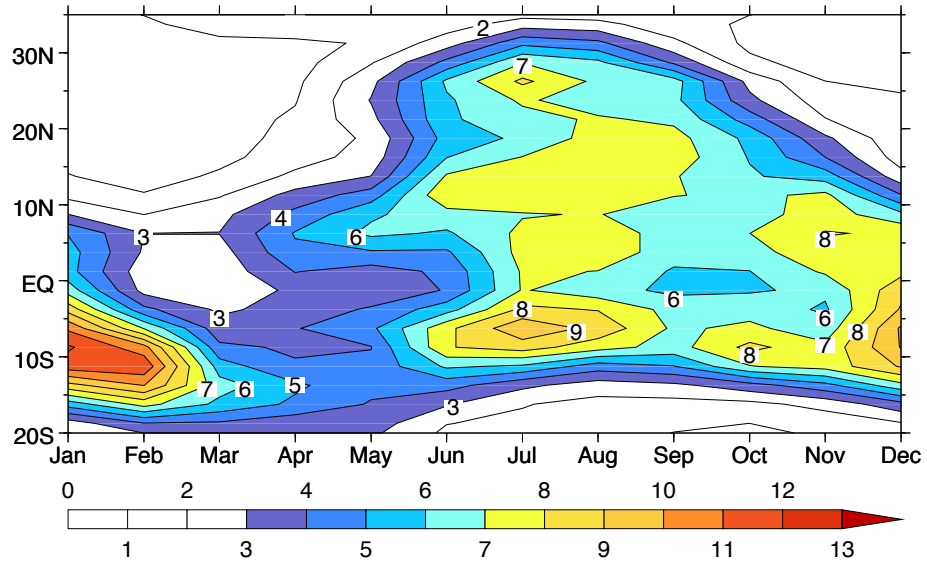
ukmo-hadcm3



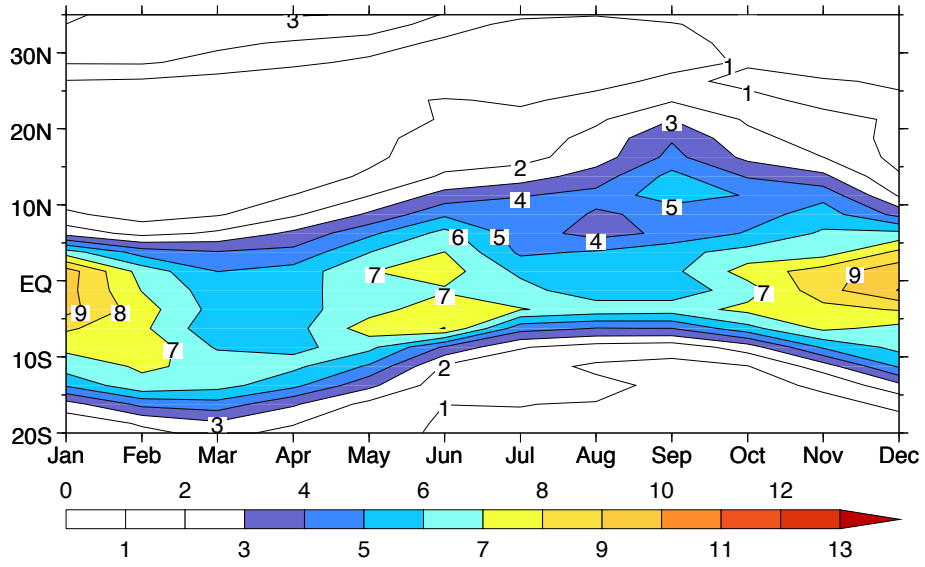
ukmo-hadgem1



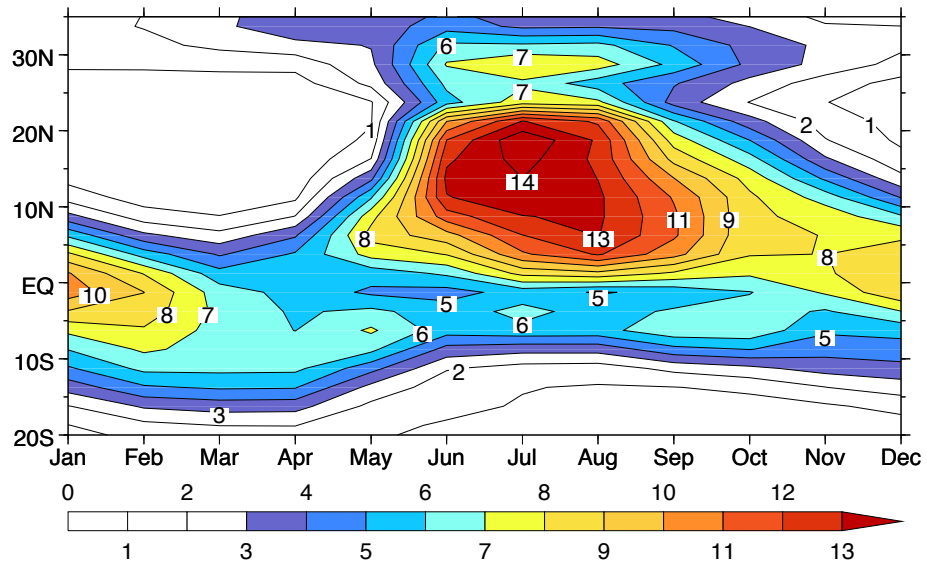
ingv-sxg



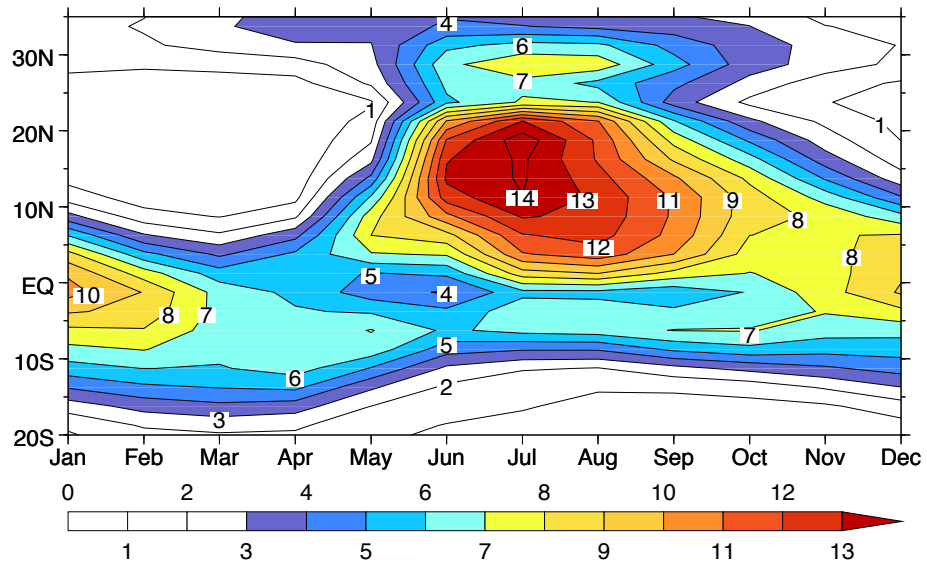
ipsl-cm4



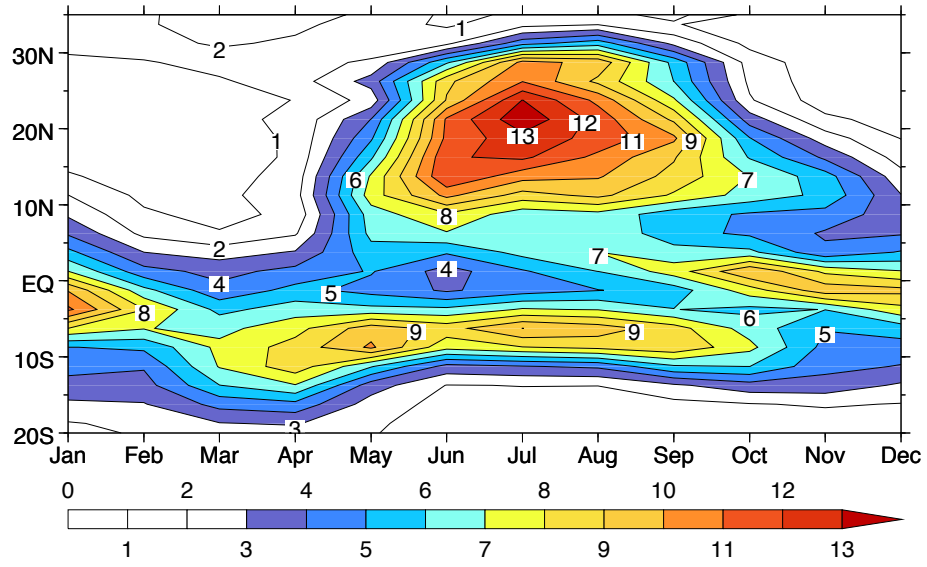
MIROC-ESM



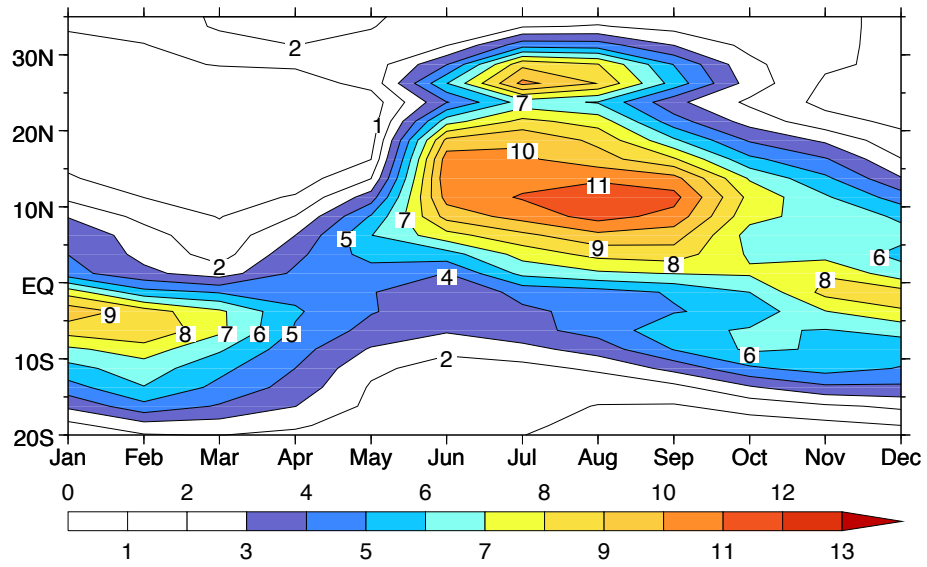
MIROC-ESM-CHEM



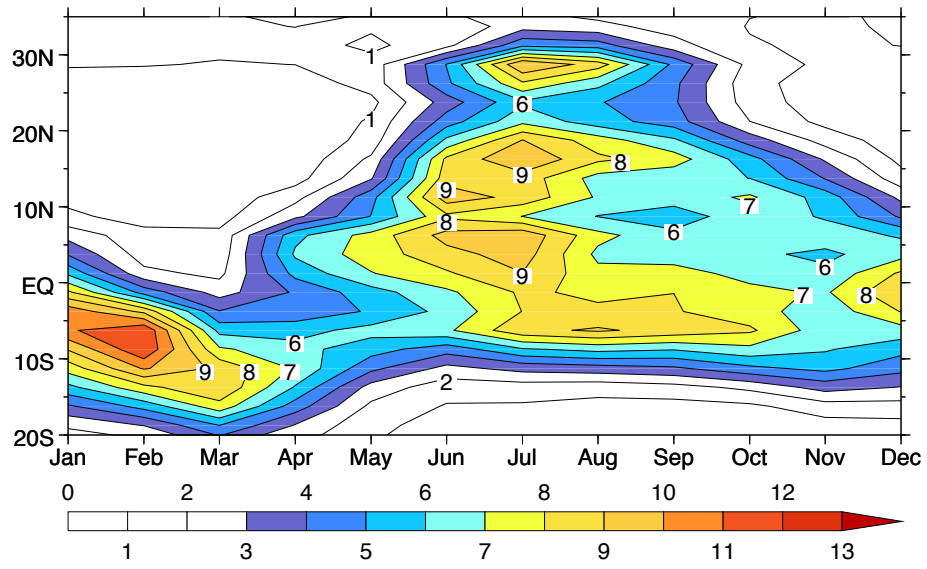
MIROC5



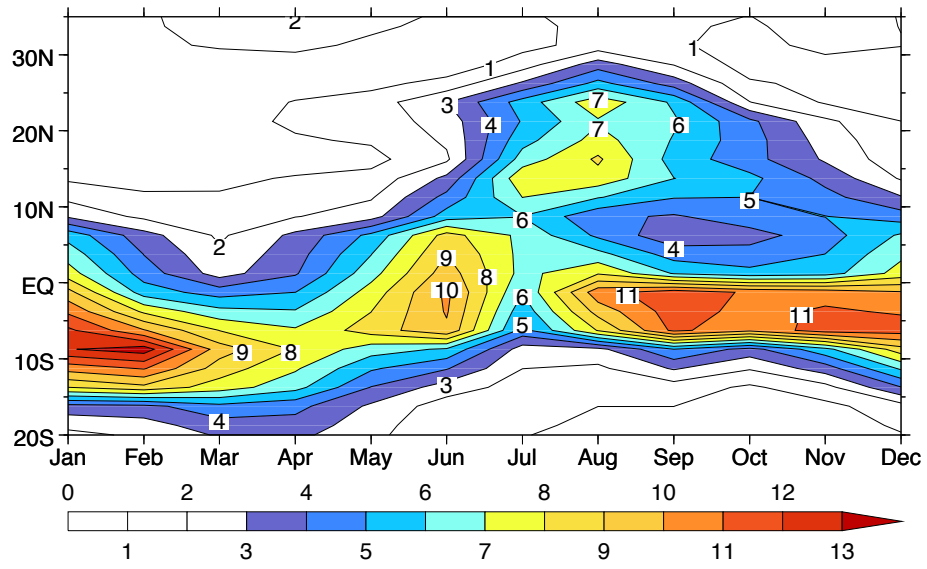
miroc3.2 (medres)



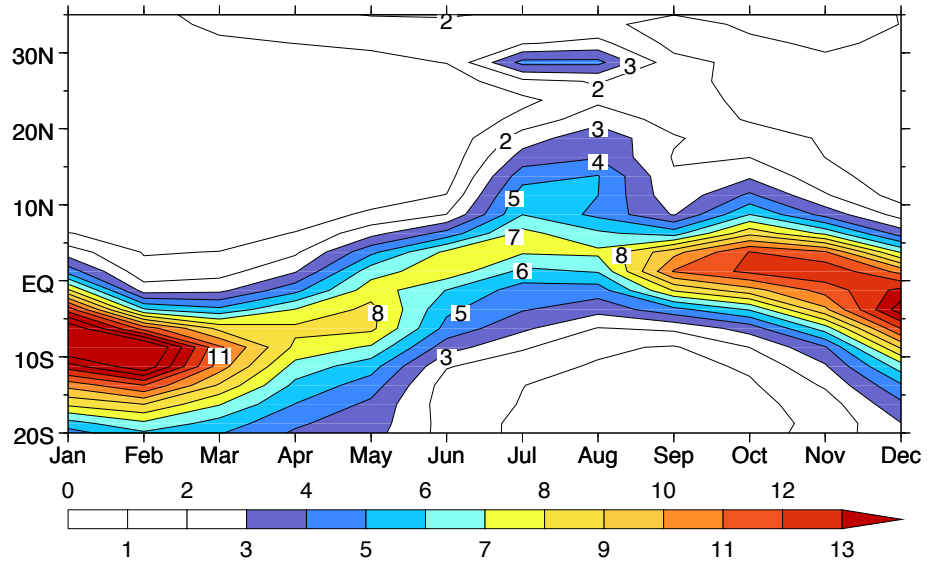
MPI-ESM-LR



echo-g



MRI-CGCM3



mri-cgcm2.3.2

