

Fig. 13 20-100 day bandpass filtered OLR variance for JJAS from **a** AVHRR (1979-2006), **b** MPI-ESM-LR, **c** MIROC-ESM, **d** MIROC5, **e** CMIP5 MMM, and **f** CMIP3 MMM. Also given in **a** is the pattern correlation with AVHRR OLR for 1979-1995, and in **b-f** are the model pattern correlations with AVHRR OLR (1979-2006) over the region 40°E-180°E, 30°S-30°N. The model data is for 1961-1999.

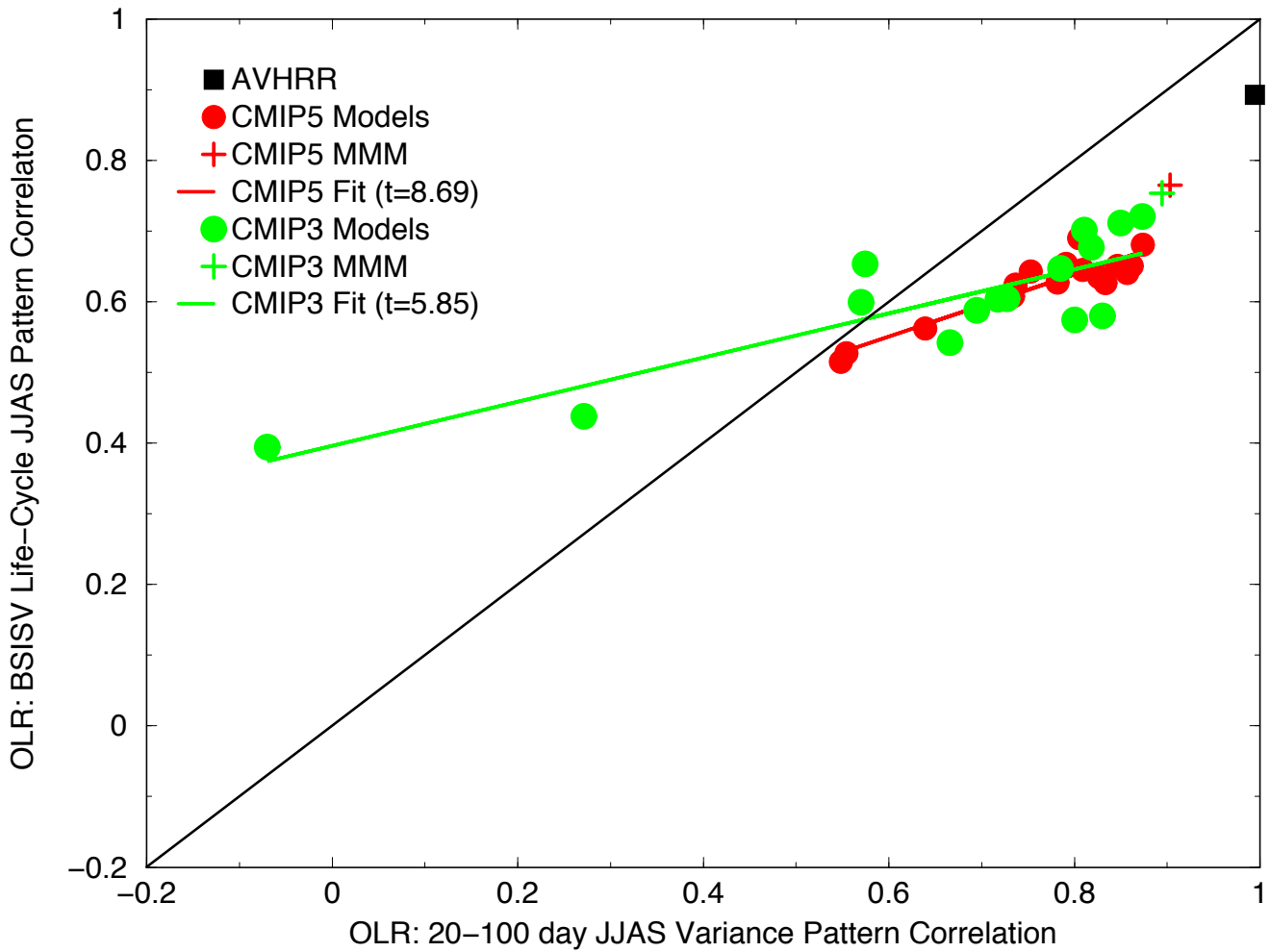
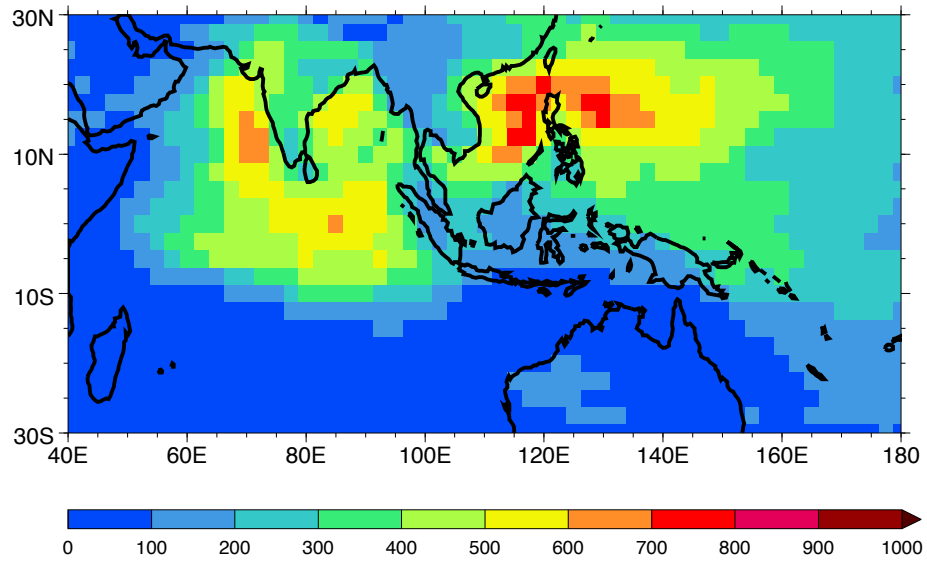
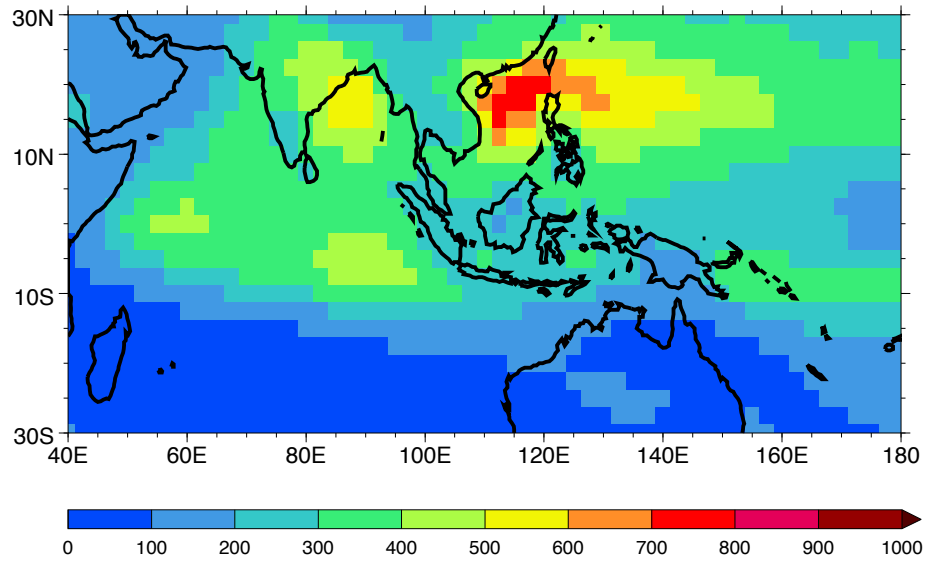


Fig. 15 Scatterplot of the pattern correlation with observations of the simulated JJAS 20-100 day bandpass filtered OLR variance vs. the space-time pattern correlation with observations of the simulated JJAS BSISV life-cycle. For the variance, the observed and simulated skill is calculated with respect to AVHRR OLR for JJAS 1979-2006. The observed variance skill is calculated using the JJAS 20-100 day bandpass filtered OLR variance for 1979-1995. For BSISV, the skill is for the models best matching patterns with respect to Day -15, Day -10, Day -5, Day 0, Day 5, Day 10, Day 15, and Day 20 of the CsEOF given in Annamalai and Sperber (2005). The observed (1979-2006) and simulated BSISV life-cycle is recovered from linear regression with PC-4 obtained by projecting 20-100 day bandpass filtered OLR onto the Day 0 CsEOF pattern from Annamalai and Sperber (2005). The skill scores are calculated over the region 40°E-180°E, 30°S-30°N

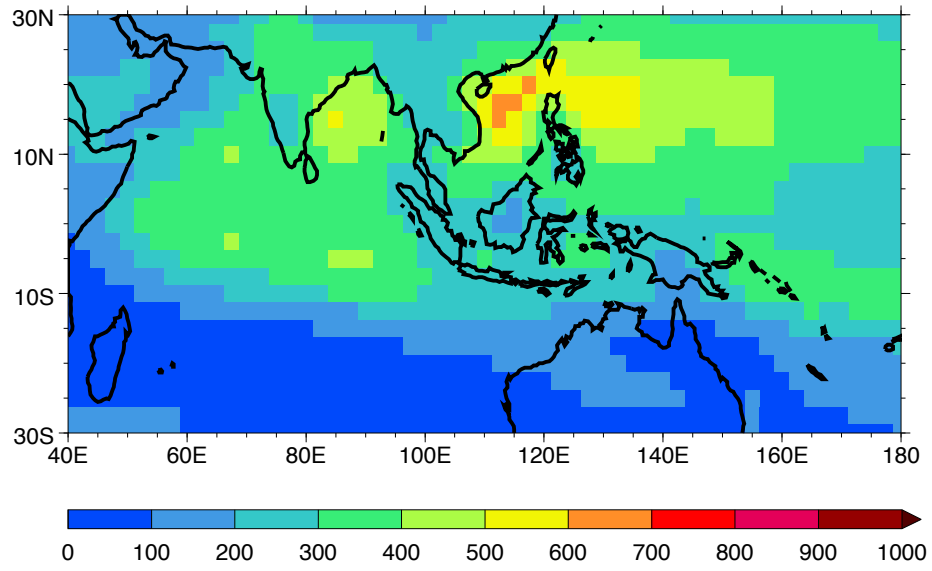
AVHRR (1979-2006)



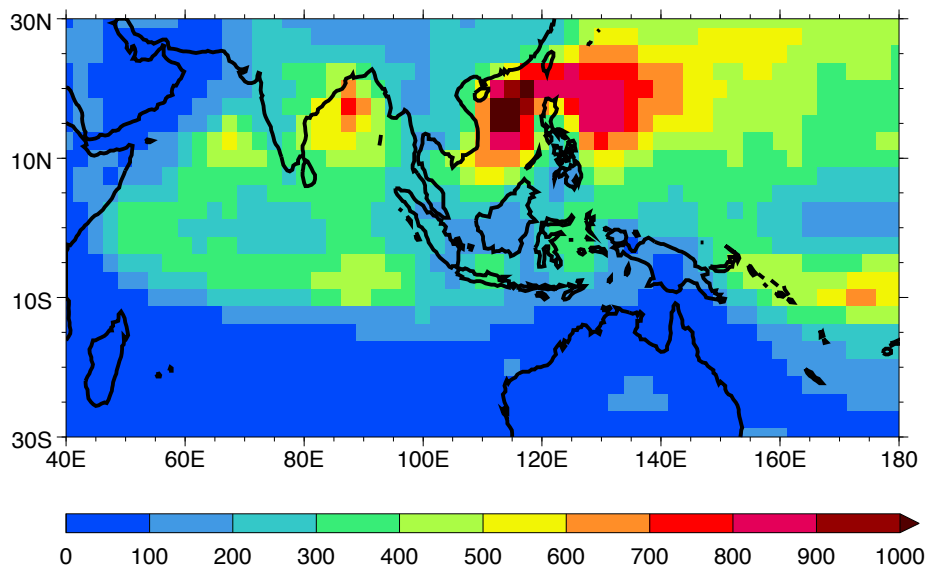
CMIP5 MMM



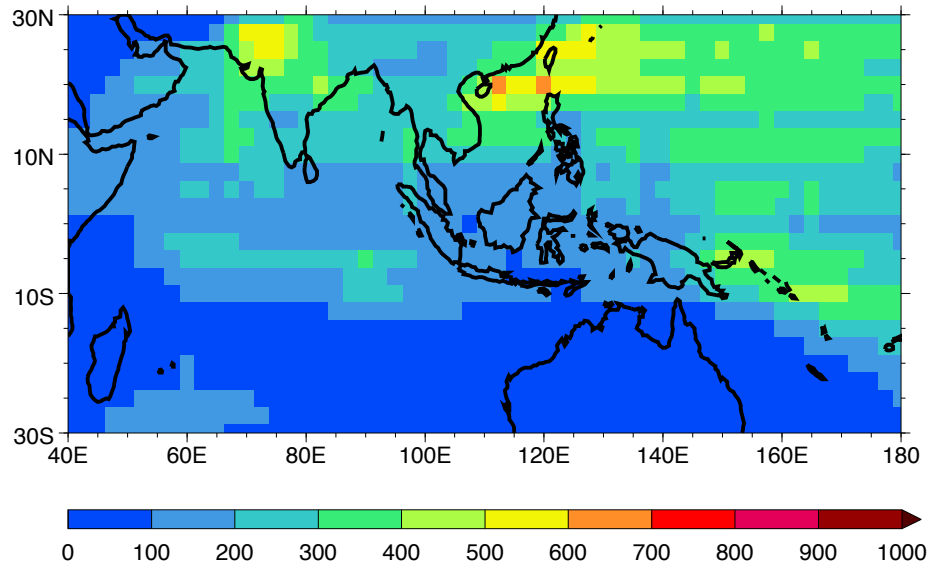
CMIP3 MMM



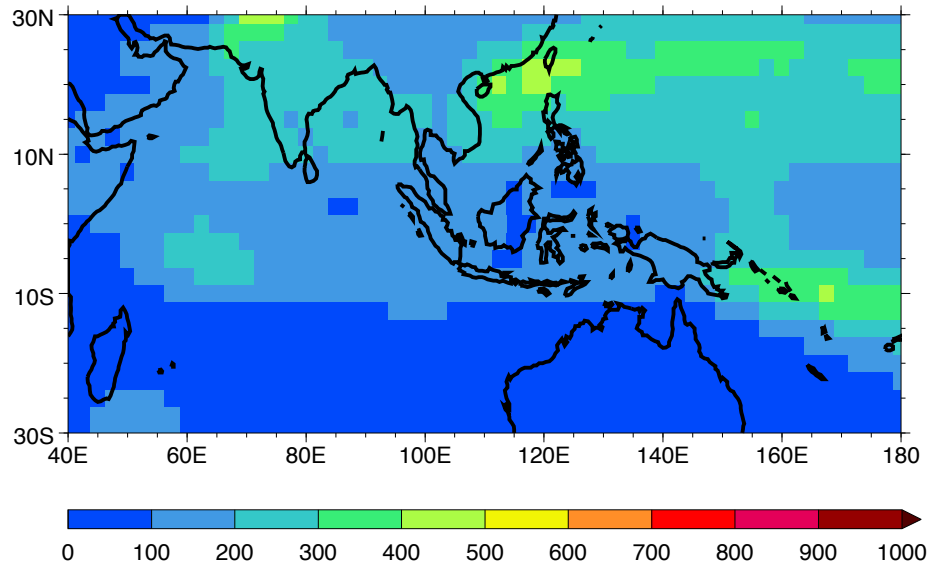
CanESM2



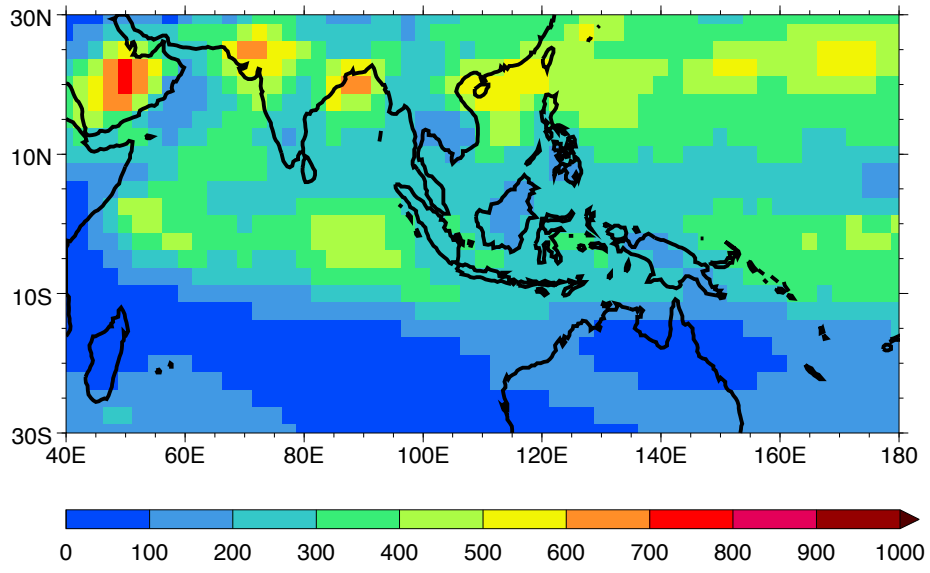
cgcm3.1 (t47)



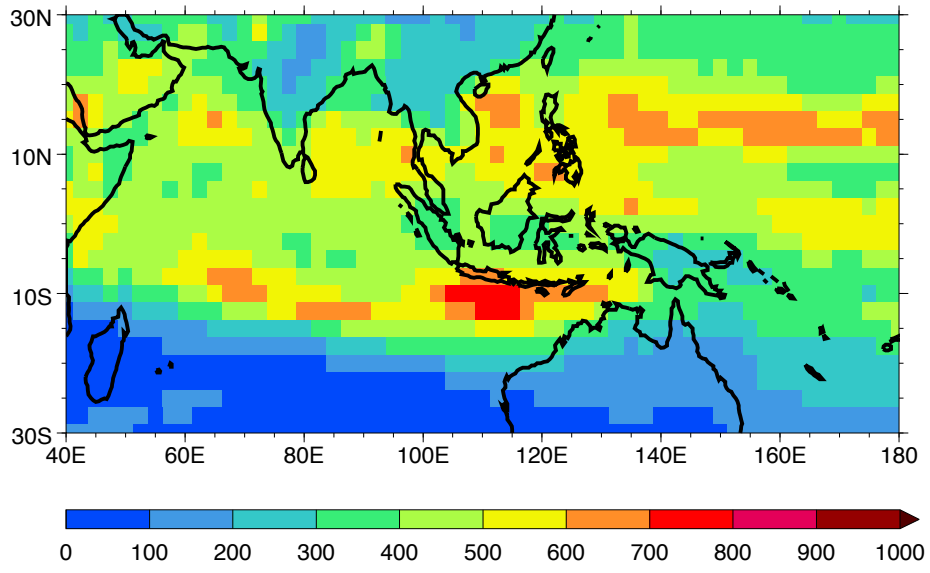
cgcm3.1 (t63)



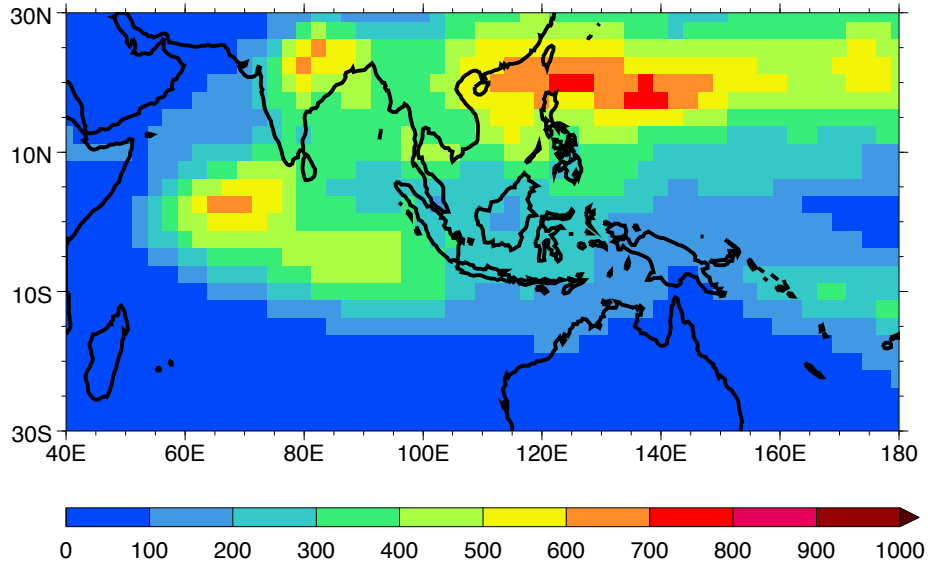
ccsm3



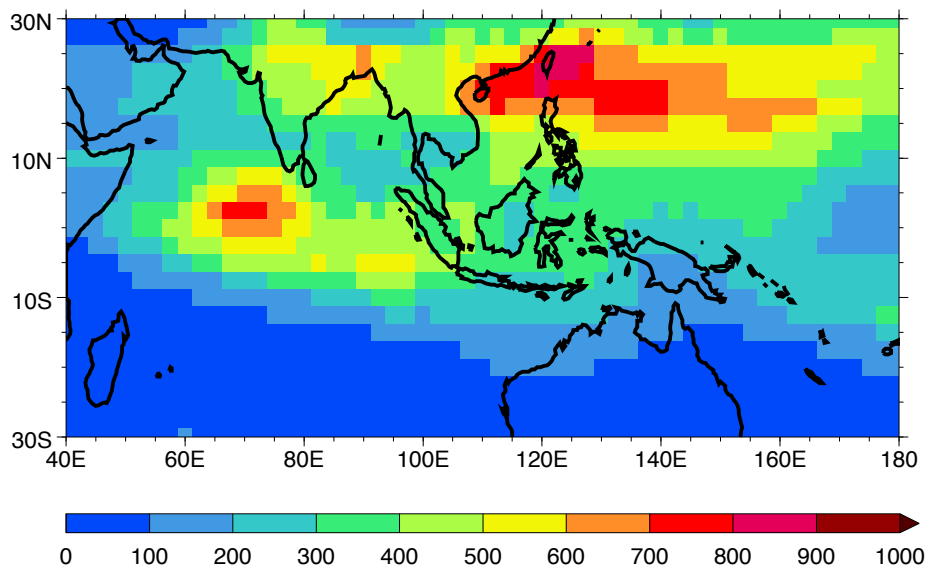
cnrm-cm3



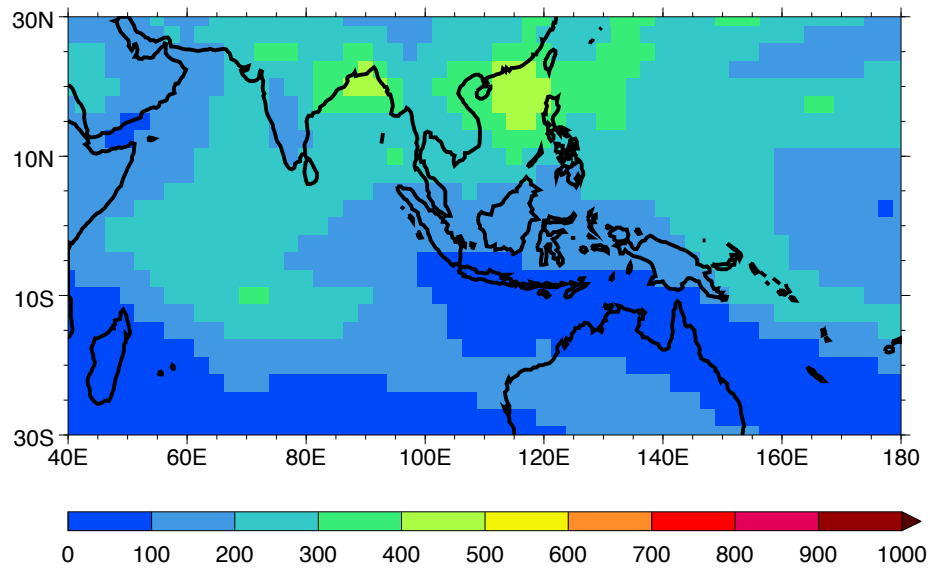
CSIRO-Mk3.6.0



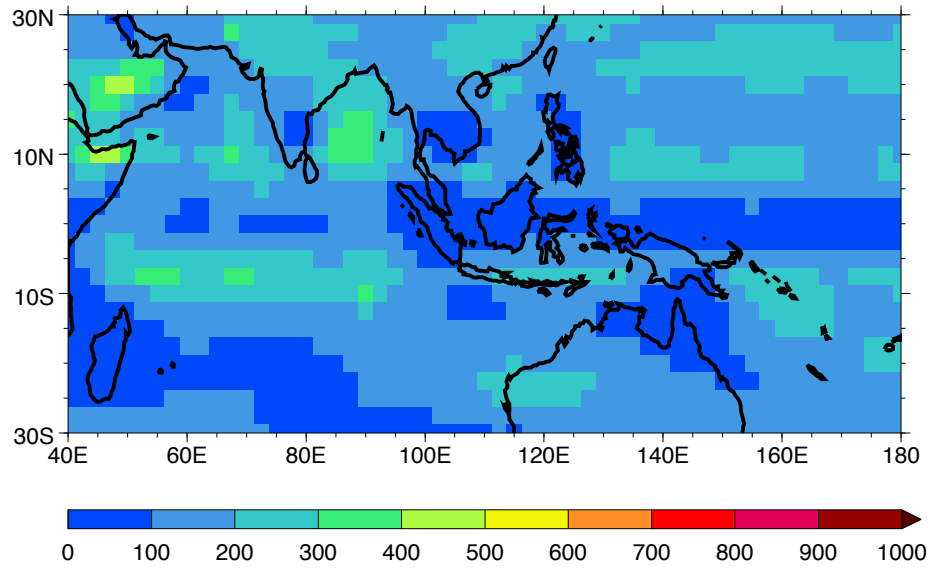
csiro-mk3.0



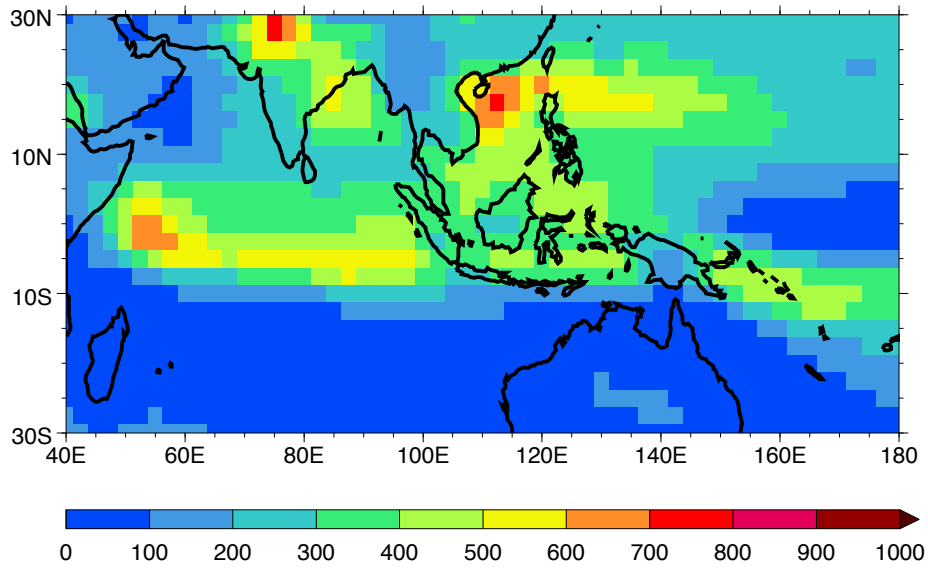
FGOALS-s2



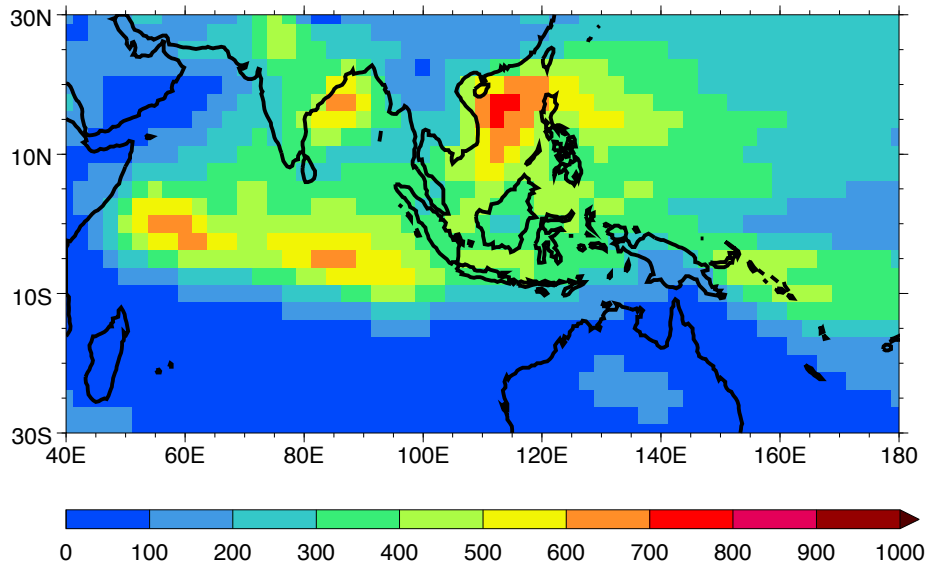
fgoals-g1.0



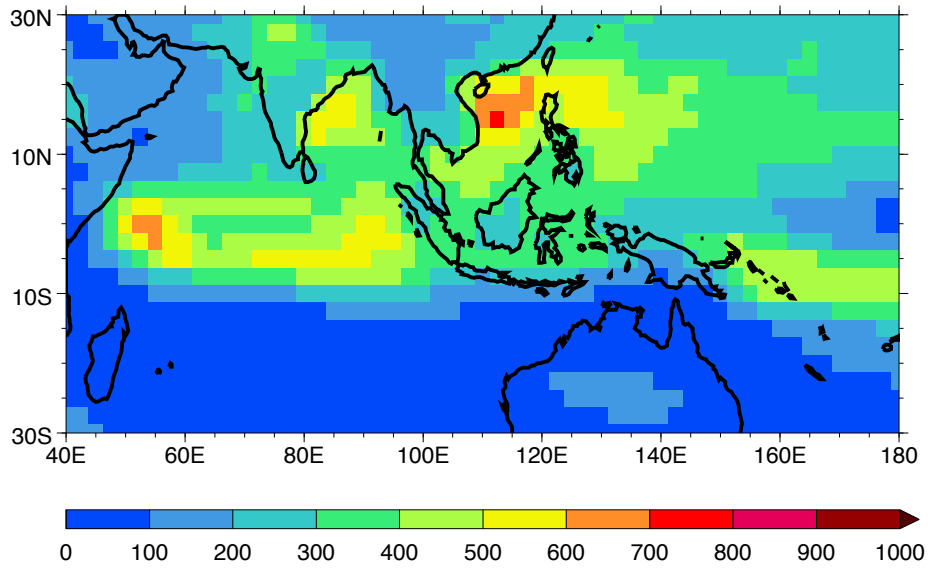
GFDL-ESM2G



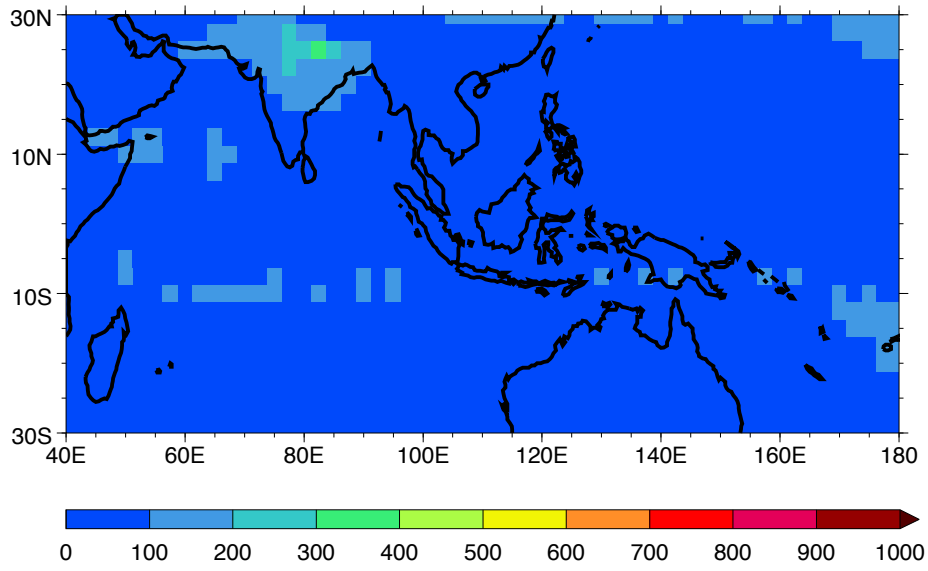
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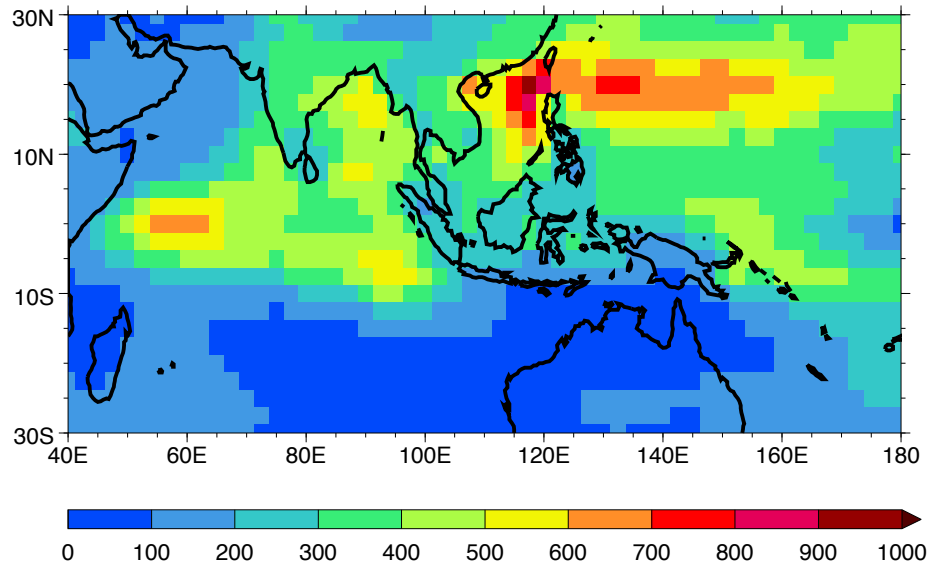
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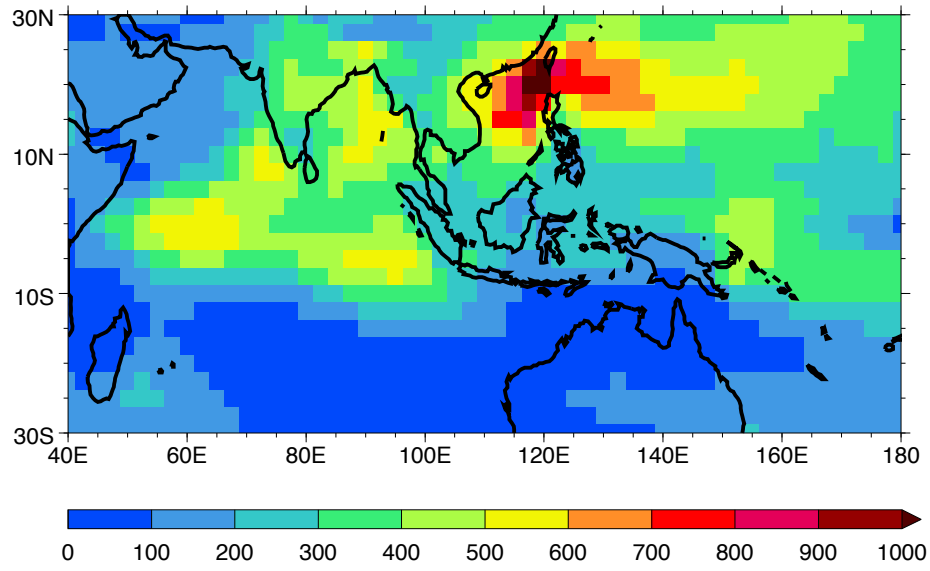
giss-aom



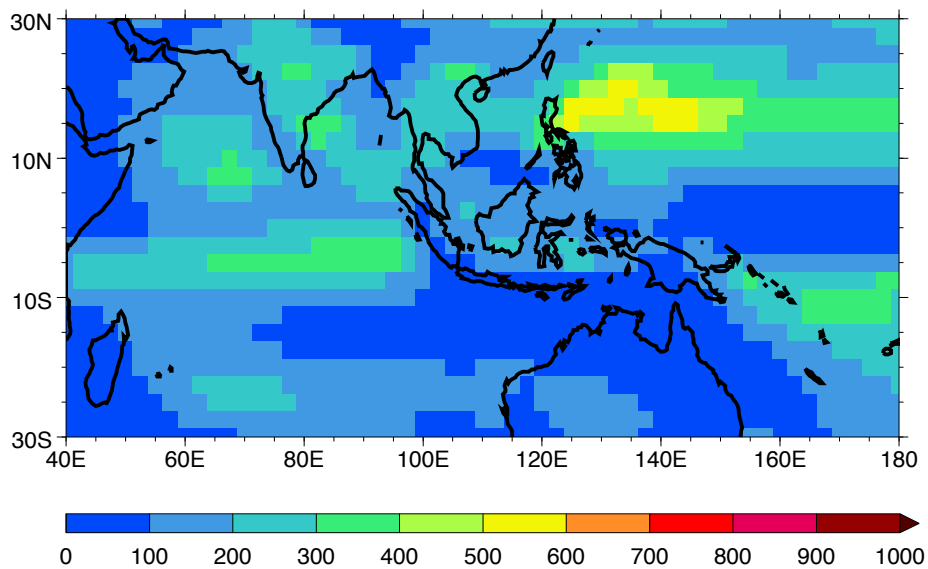
HadGEM2-CC



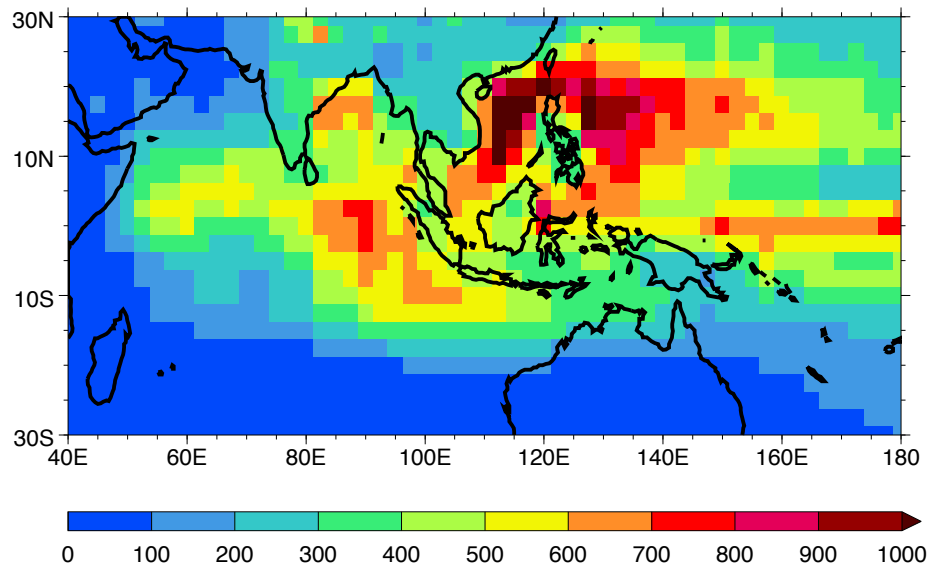
HadGEM2-ES



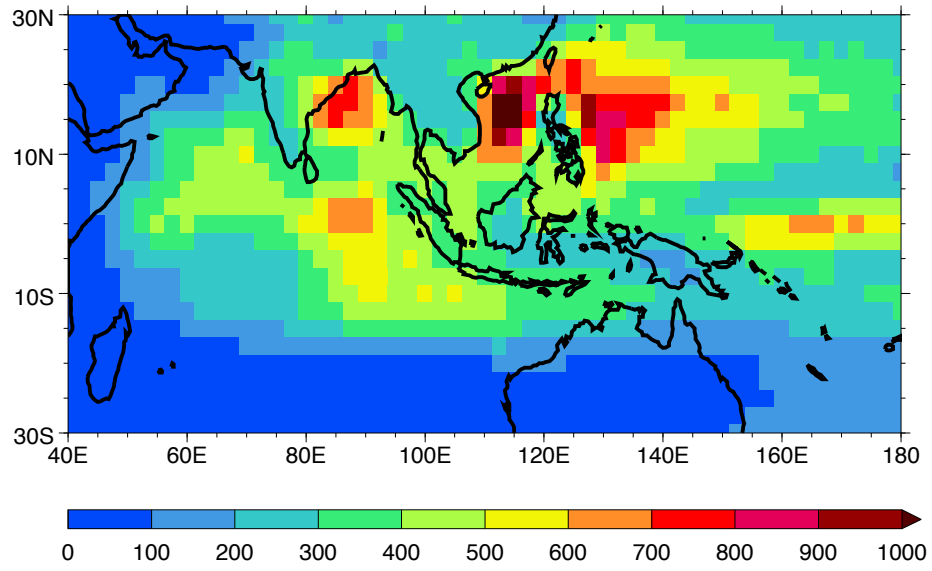
INM-CM4



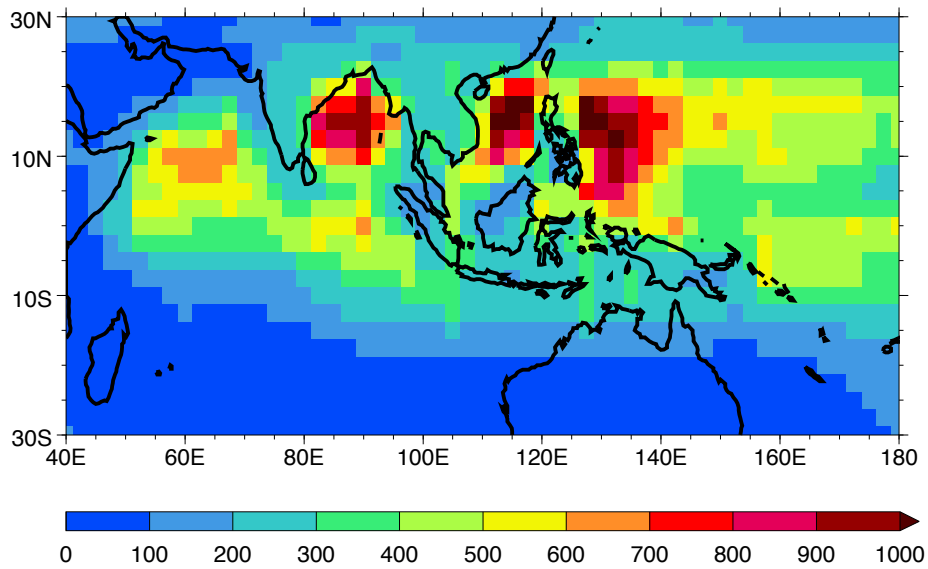
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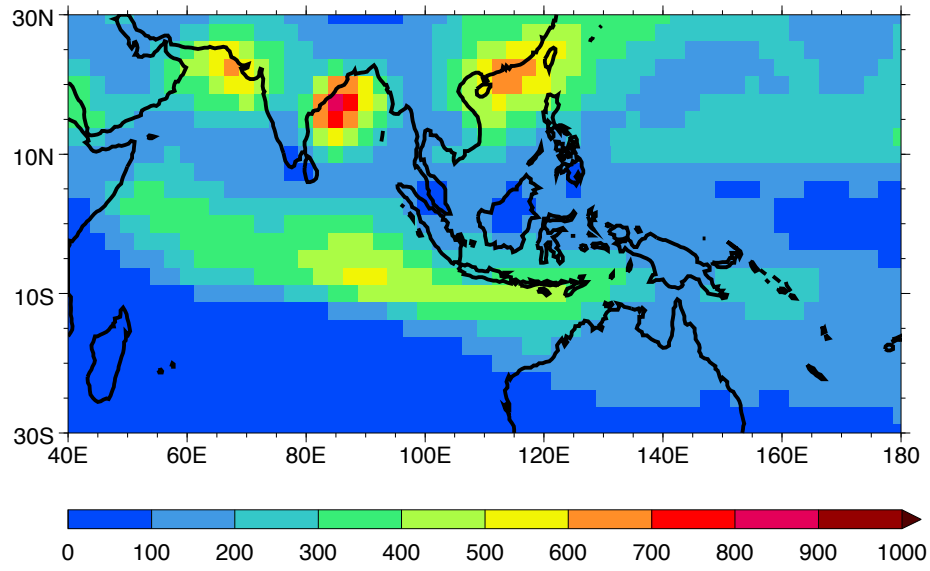
IPSL-CM5A-MR



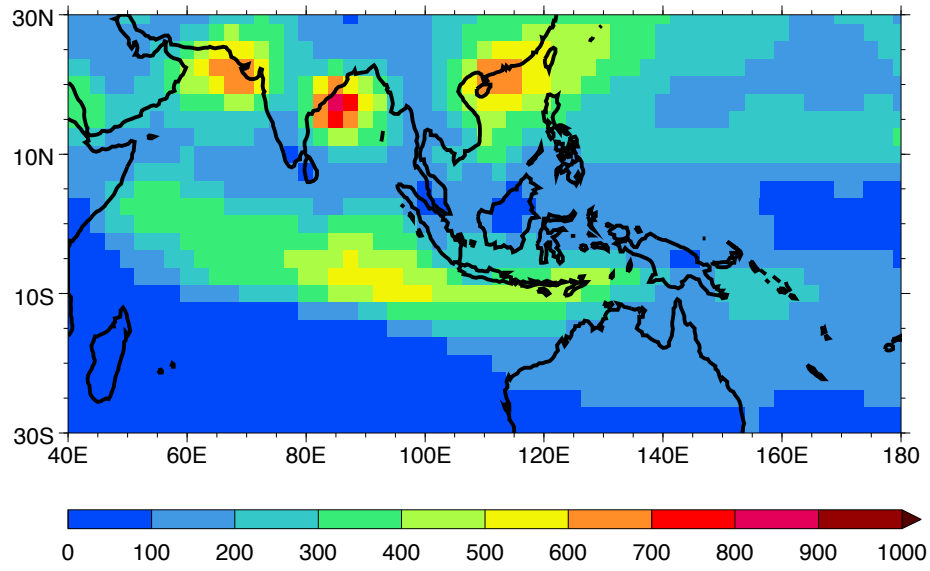
ipsl-cm4



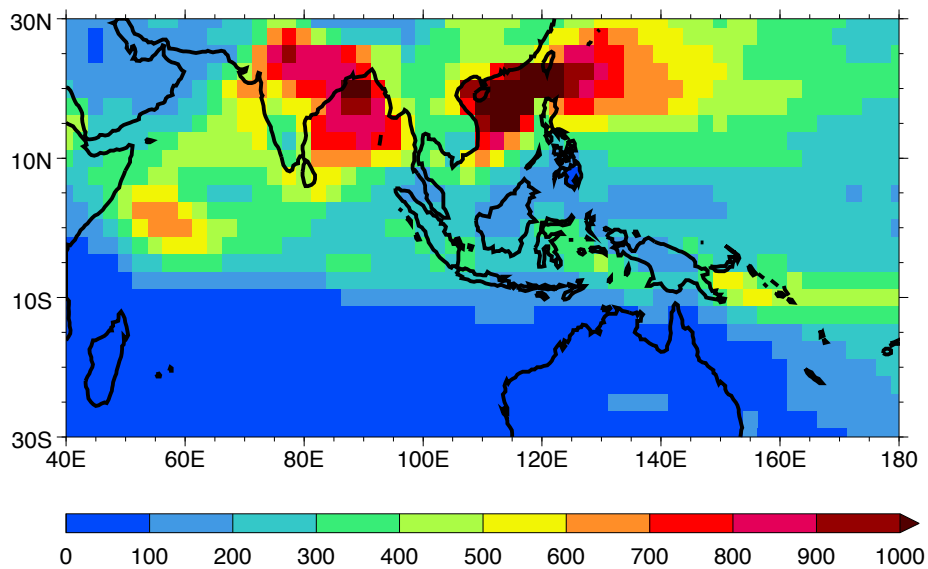
MIROC-ESM



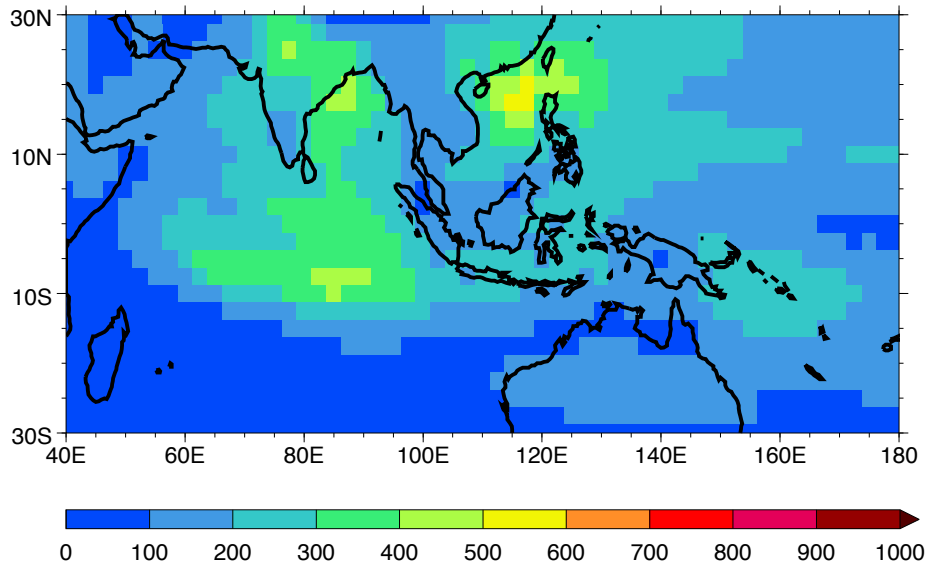
MIROC-ESM-CHEM



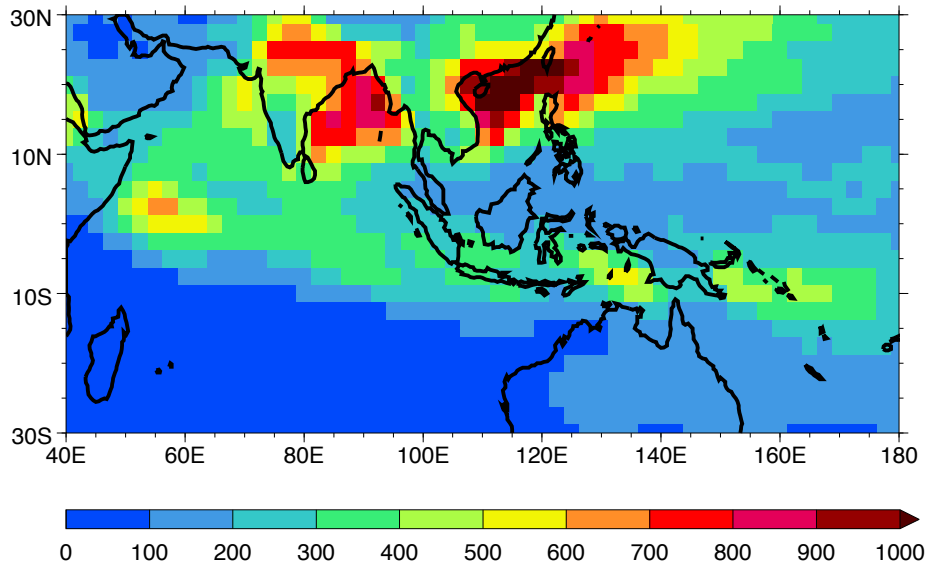
MIROC4h



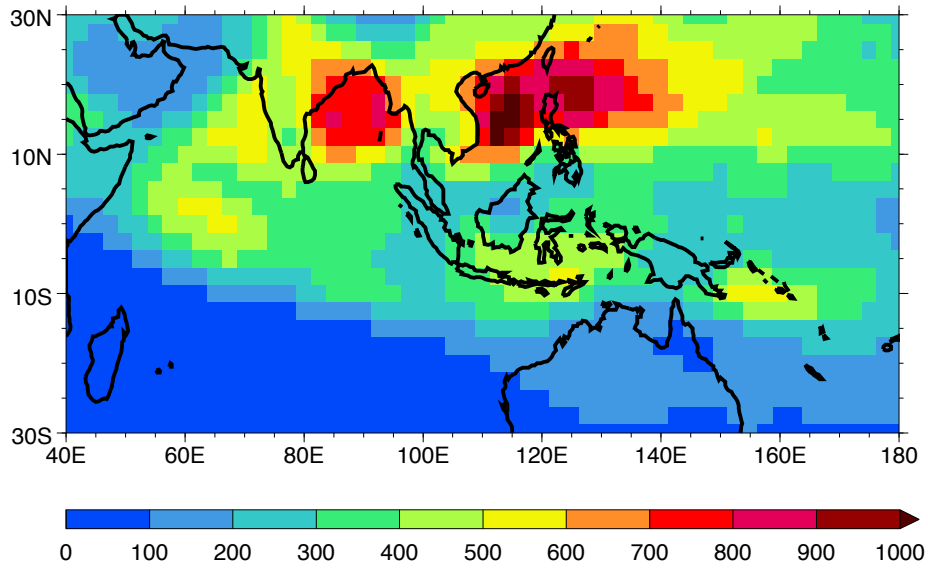
MIROC5



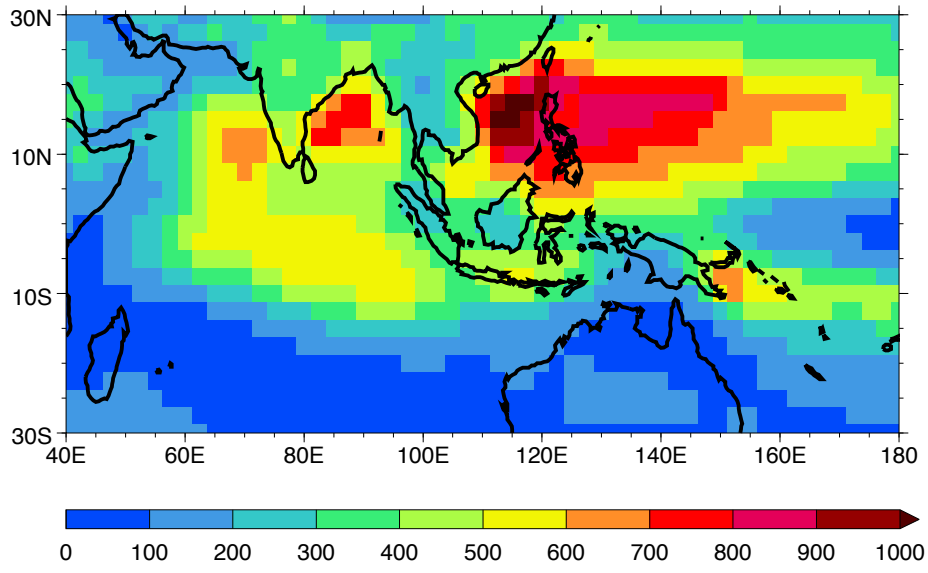
miroc3.2 (hires)



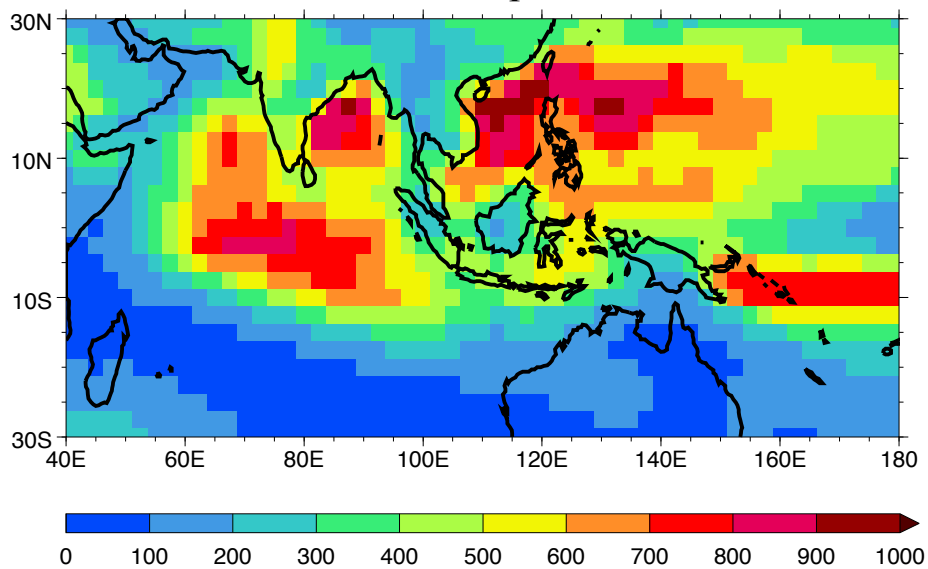
miroc3.2 (medres)



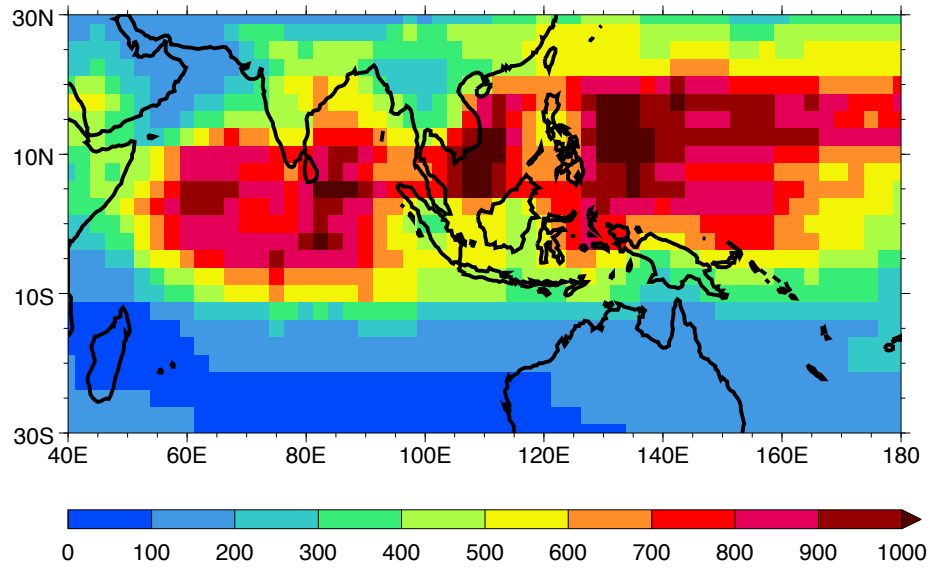
MPI-ESM-LR



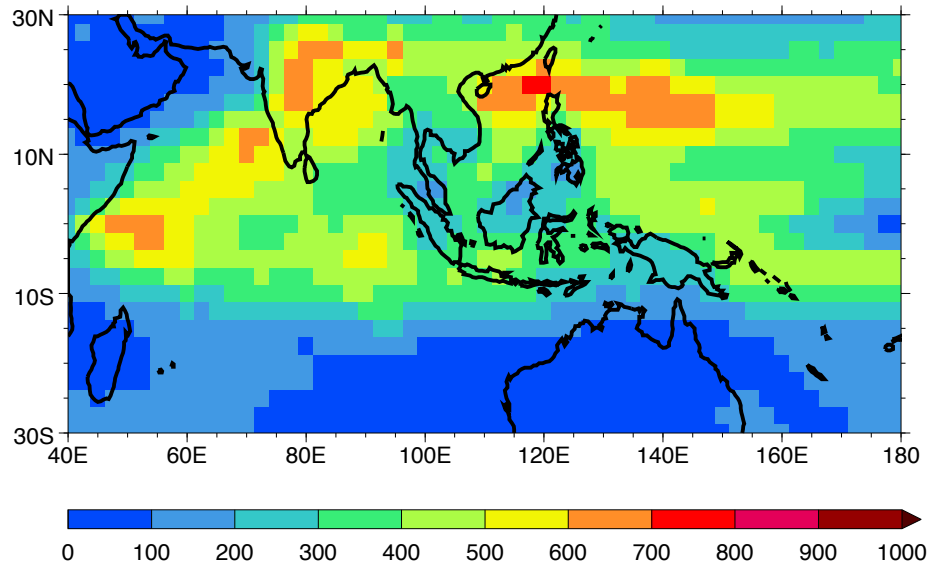
echam5/mpi-om



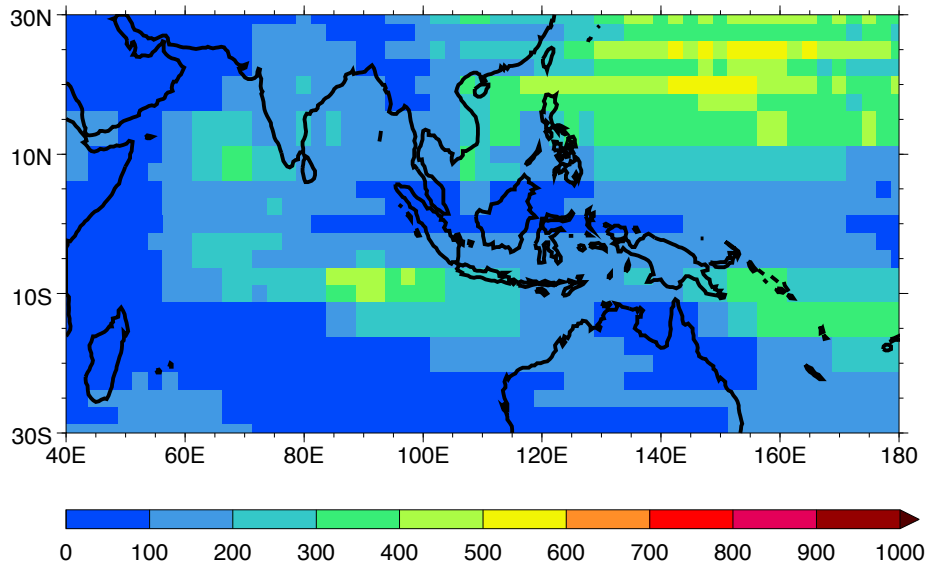
echo-g



MRI-CGCM3



mri-cgcm2.3.2



NorESM1-M

