Electronic supplement to "**Sensitivity of simulated CO_2 concentration to regridding of global fossil fuel CO_2 emissions**"

by Zhang et al.

The purpose of this electronic supplement is to present the figure that maps diffusion coefficient in PCTM model simulation. This figure shows the difference in the planetary boundary layer between ocean and land, complementing the information in the main body of the paper.

1 Figure

1.1 Eddy diffusion coefficient

Figure 1: Daily mean diffusion coefficient (KH) at 1.25˚ x 1.0 ˚ for July 30, 2002 at pressure level about ~950 hpa in MERRA reanalysis. The diffusion coefficient is determined using a K-diffusion scheme in MERRA modeling.