Contiguous United States (CONUS) Wetlands and Non-wetlands Soil Methane Emissions (Download).

Readers can use these model results to reproduce the figures 3, 4 and 5 in the main text.

This folder in this directory contains the following three NetCDF datasets. Readers can use these ISAM model outputs to reproduce the figures 3, 4 and 5, which appear in the main text of the research article.

1. CH4_mean_2001_2010.nc, contains annual mean wetlands and non-wetlands methane fluxes for the CONUS region for 2001 - 2010, including variables (units: gCH4 m^{-2} $year^{-1}$):

Aerenchyma_nonwetland: Methane emission through aerenchyma transport for non-wetlands

Aerenchyma_wetland: Methane emission through aerenchyma transport from wetlands

Diffusion_nonwetland: Methane emission/sink through diffusion from non-wetlands

Diffusion_wetland: Methane emission/sink through diffusion from wetlands

Ebullition_nonwetland: Methane emission through ebullition from non-wetlands

Ebullition_wetland: Methane emission through ebullition from wetlands

Emission_nonwetland: Methane emission from non-wetlands

Emission_wetland: Methane emission from wetlands

Oxidation_nonwetland: Methane oxidation from non-wetlands

Oxidation_wetland: Methane oxidation from wetlands

Production_nonwetland: Methane production from non-wetlands

Production_wetland: Methane production from wetlands

Fractional_water: Fractional area of surface water

2. CH4_mean_rcp45_2091_2100.nc, contains annual mean wetlands and non-wetlands methane fluxes for the CONUS region for 2091 - 2100 under RCP4.5 scenario, including the same variables as CH4_mean_2001_2010.nc.

3. CH4_mean_rcp85_2091_2100.nc, contains annual mean wetlands and non-wetlands methane fluxes for the CONUS region for 2091 - 2100 under RCP8.5 scenario, including the same variables as CH4_mean_2001_2010.nc.