

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: The file contains a global meta-dataset and raw data from soil and crop measurements taken at field experimental sites over a decade. The dataset provides detailed information on soil temperature, moisture content, and crop biomass carbon content.

File Name: Supplementary Code 1

Description: This code conducts a meta-analysis of the effects of winter soil temperature, soil moisture, latitude, crop type, and fertilizer application on crop biomass carbon. A linear mixed-effects model with fixed and random effects is used to account for variability across different climates and crops. The code includes data preprocessing, model fitting, and residual tests to assess predictor significance. The code is written in R.