R & 1-in-10-yr $\text{EI}_{30}$ values at 2381 stations based on hourly data and adjusted by daily data

Spatial interpolation

R & 1-in-10-yr $\text{EI}_{30}$ maps over mainland China

Cross validation for 62 stations for the R-factor, and 18 stations for the 1-in-10-year $\text{EI}_{30}$ (with 1-min data)
Statistics for 6 erosion and 9 hydrological zones

Evaluation of the improvement in erosivity maps in comparison with a previous study (Yin et al., 2019)

Effect of data temporal resolution: daily vs. hourly

Effect of the number of stations: 774 vs. 2381

Effect of the interpolation method: OK vs. UK