

1 Supplementary Figures



Figure 1: Autogenerated Snakemake workflow image example depicting static input data generation for GPEP. The workflow orchestrates a series of preprocessing steps to prepare gridded and meteorological station input data.

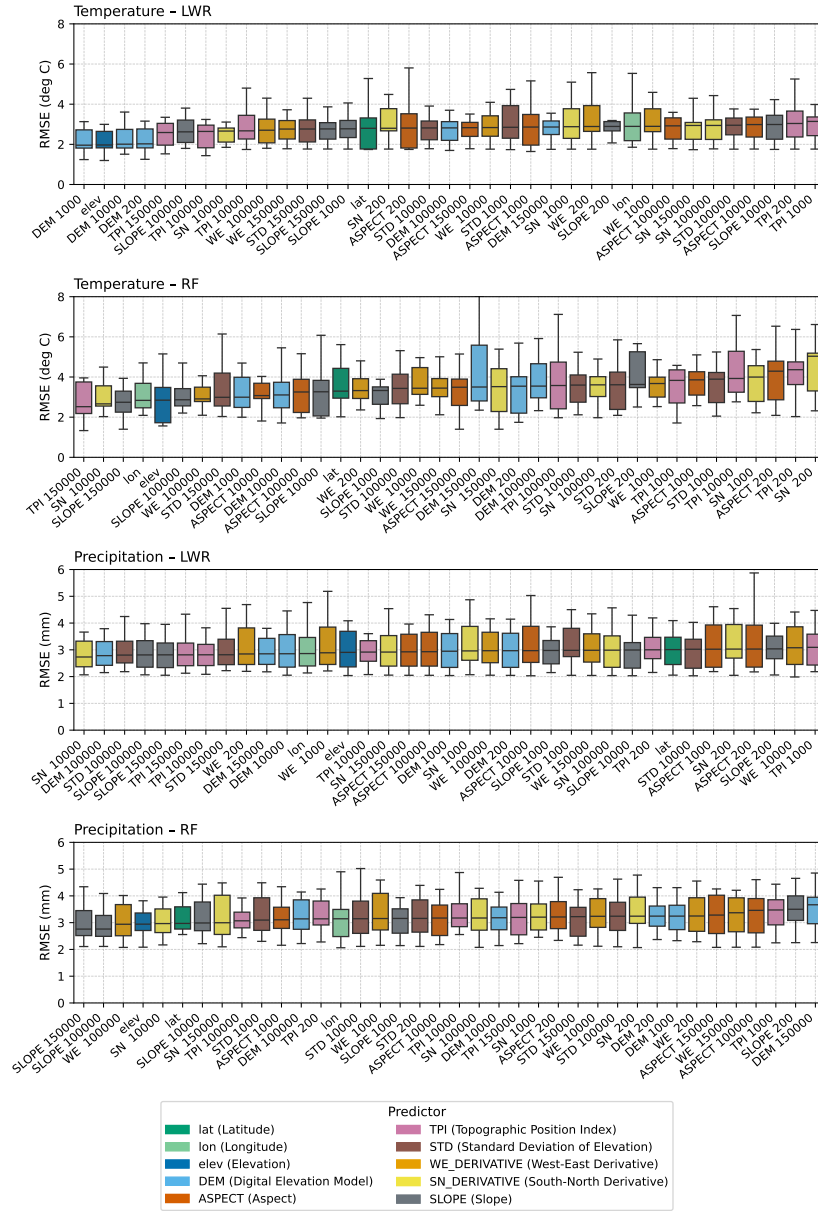


Figure 2: Static predictor screening showing single predictor cross-validation results for the Chena. Topographic descriptors and their smoothed variants (200 m, 1000 m, 10,000 m, 100,000 m, 150,000 m) are evaluated to assess cross-validation RMSE for Temperature and Precipitation using Locally Weighted Regression (LWR) and Random Forest (RF).

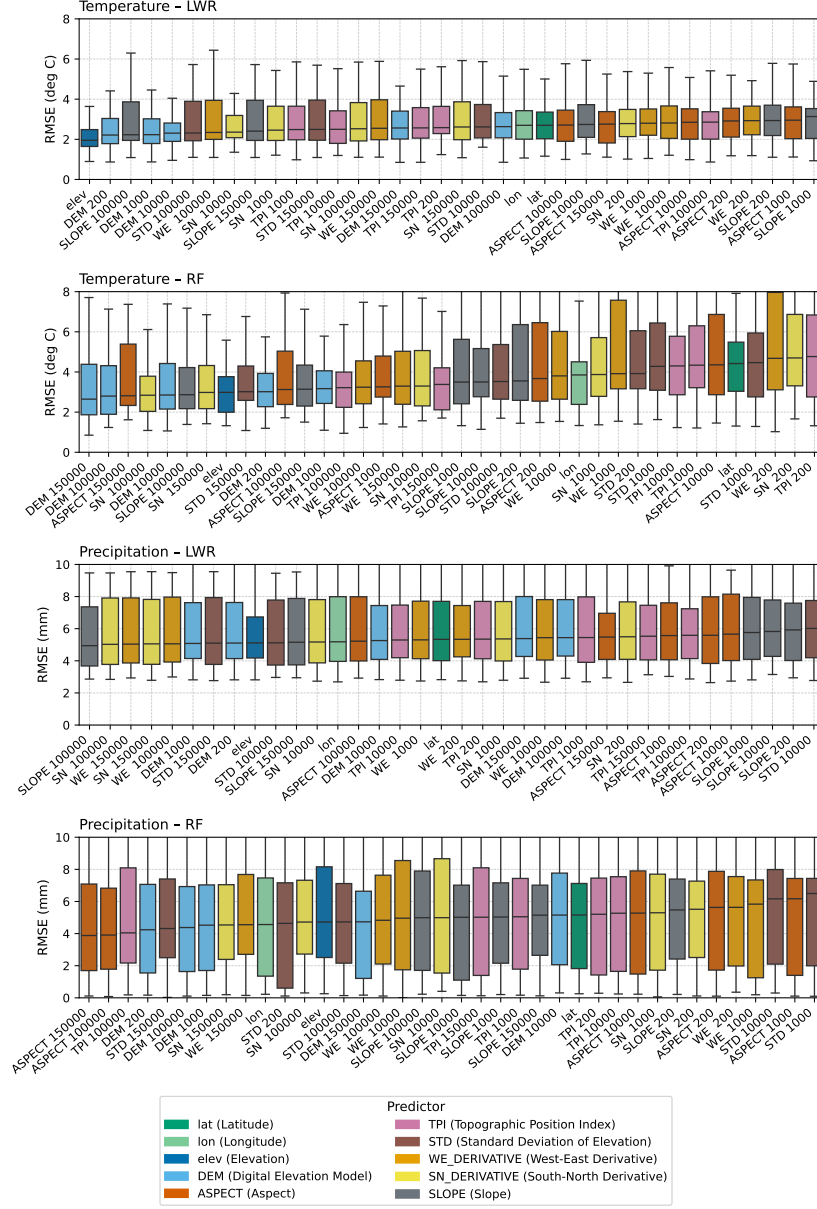


Figure 3: Static predictor screening showing single predictor cross-validation results for the Tuolumne. Topographic descriptors and their smoothed variants (200 m, 1000 m, 10,000 m, 100,000 m, 150,000 m) are evaluated to assess cross-validation RMSE for Temperature and Precipitation using Locally Weighted Regression (LWR) and Random Forest (RF).