CMIP6 GCM Daily Data

Standardize

Regrid to 1°

Train QDM bias adjustment model

Bias-adjust historical model simulation and SSP projections

Downscale bias-adjusted historical model simulation and SSP projections

Apply additional variable-specific post-processing

CMIP6 bias-adjusted and downscaled surface climate projections

ERA-5 Hourly Reanalysis

Aggregate to daily, standardize

Regrid to 0.25°

Train QPLAD downscaling model

Regrid to 1°

Resample to 0.25°