

Choose training driving data

Combine driving data with different parameter values

Use Land Surface Model to simulate each combination

Ensure datasets are “flat”

- (Space and time dimensions should be collapsed)

Build GP emulator

- Can use off-the-shelf software
- Inputs are individual driving data values and parameter values
- Output is the simulation result for the matching grid cell/timestep

Choose new driving data and parameter values for desired analysis

Make fast predictions using emulator; use to perform analysis