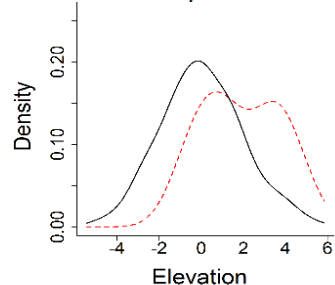
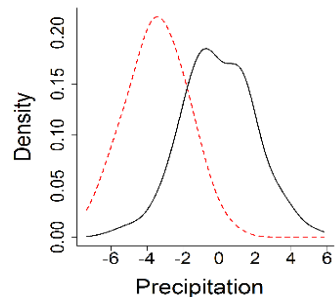
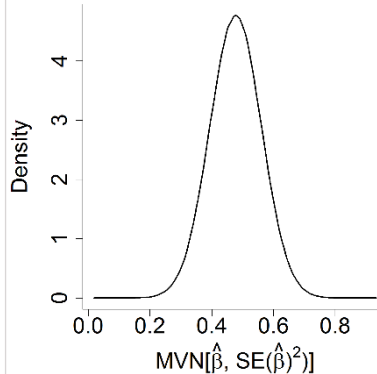


**Step 1:**  
Summarize used (red) and available (black) distributions of  $x$  in test data set



**Step 2:**  
Fit "candidate" model to training data; store  $\hat{\beta}$  and  $\hat{\text{cov}}(\hat{\beta})$



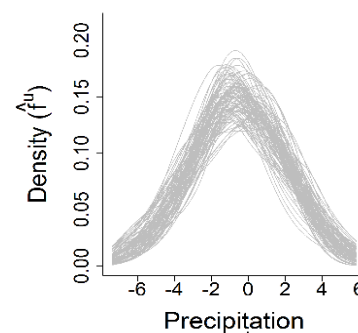
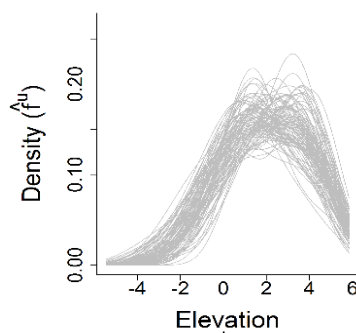
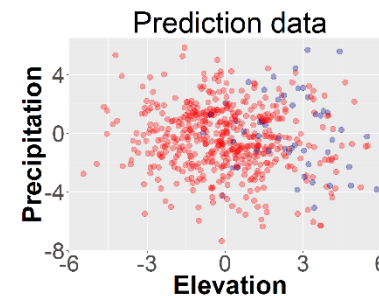
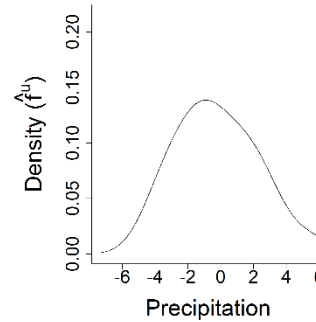
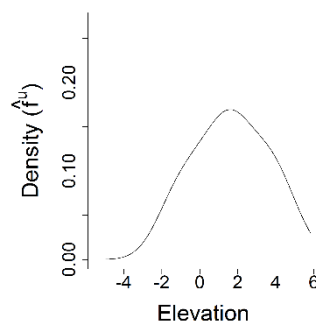
**Step 3:** Repeat steps in box  $M$  times

A. Draw random values of  $\beta_i$

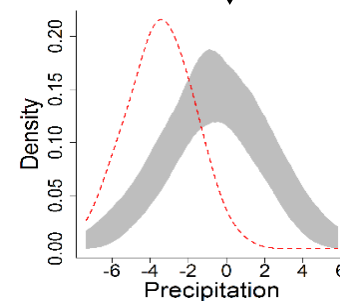
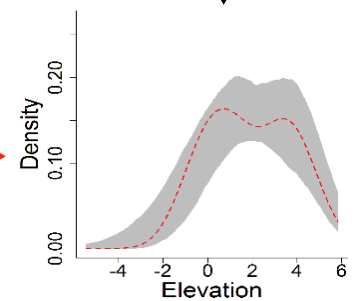
B.  $\text{Pr}(\text{select}) \propto \exp(\beta_i x)$

D. Summarize predicted distribution of covariates at identified used locations

C. Choose  $n_U^{\text{test}}$  used locations from test data

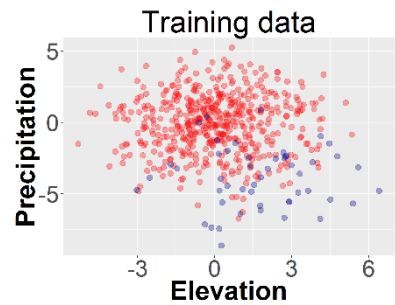
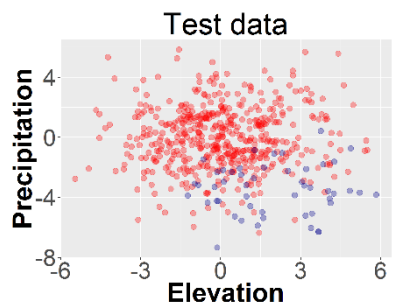


$M$  predicted distributions of  $x_U^{\text{test}}$



**Step 4:**  
Compare observed (red) and  $M$  predicted (grey) distributions

**Step 0:**  
Split data into training and test data sets



**Step 5:** Modify the model as necessary