

On-site observations

Safe Winter Chill
(weather station)

Correction variables
(weather station)

3D model generation

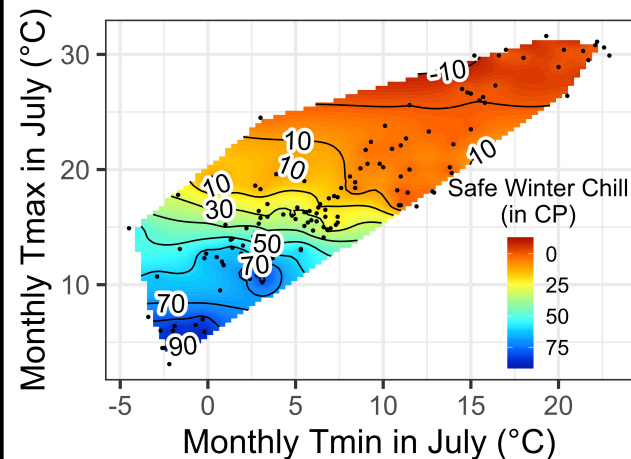
Model

ordinary kriging

ordinary kriging

feed the model

3D correction model



feed the model

Intermediate maps

Chill map
(kriged)

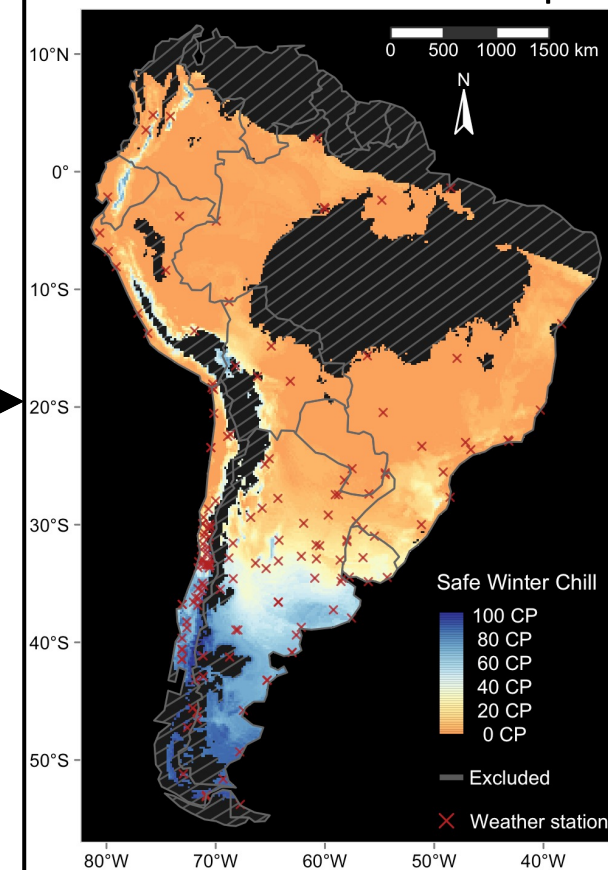
Correction variable maps
(kriged)

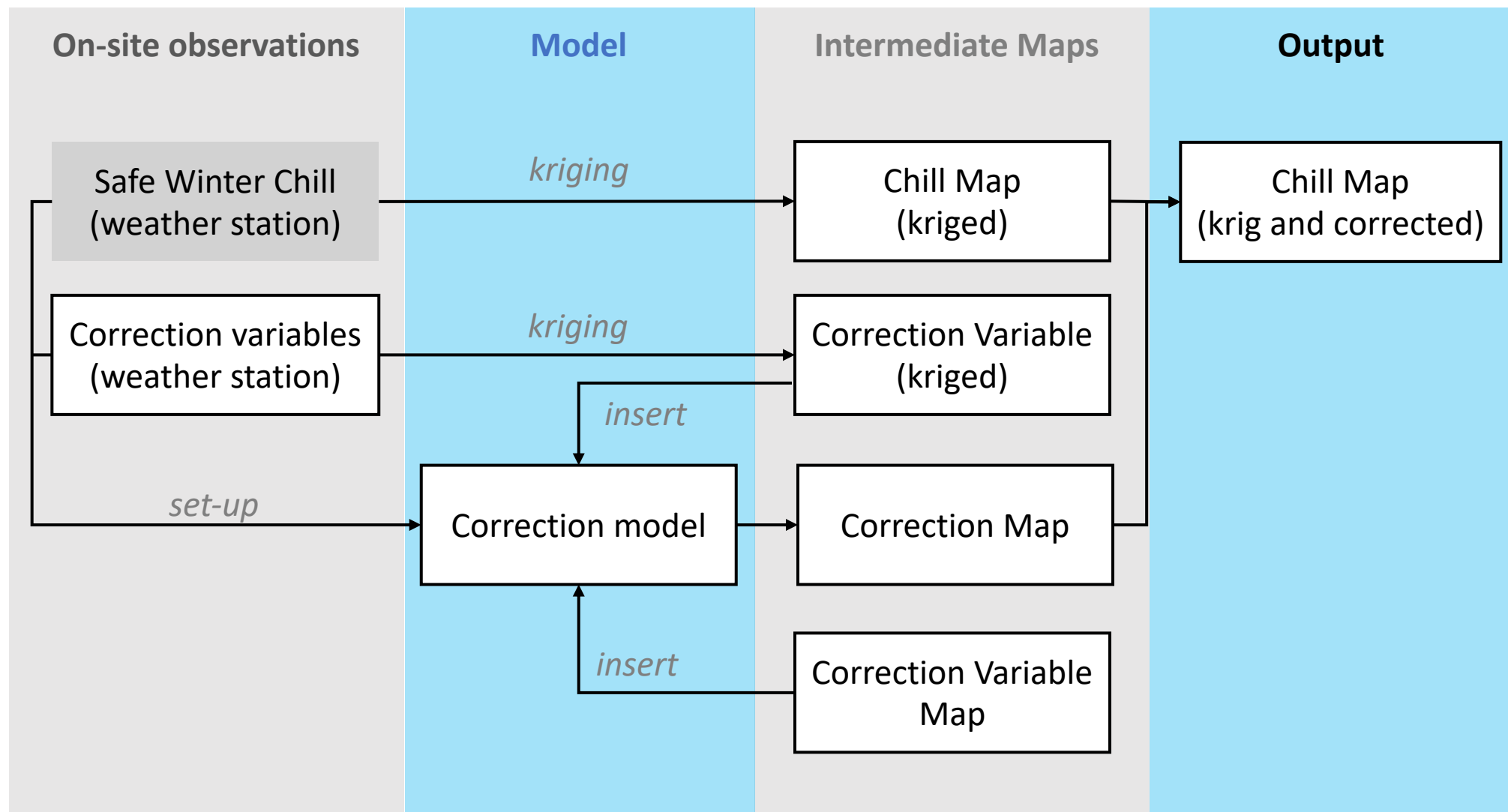
Correction map
(WorldClim – on-site data)

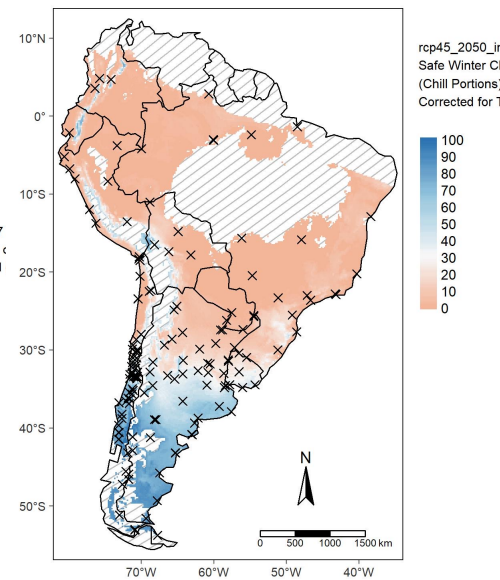
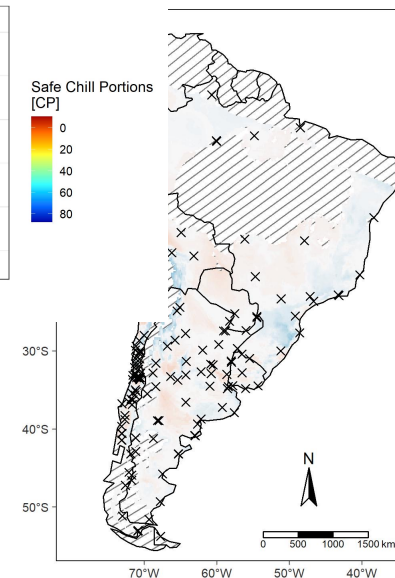
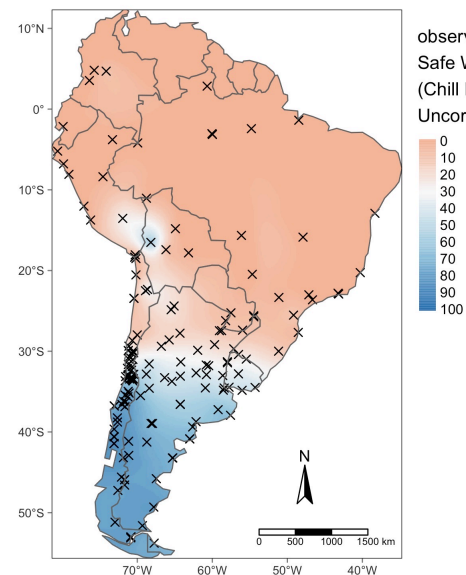
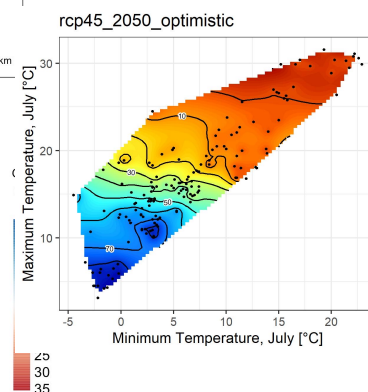
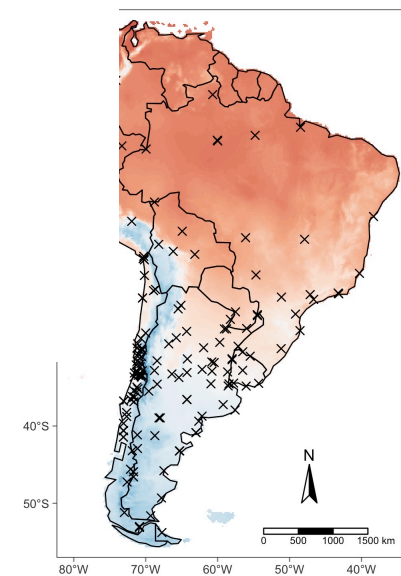
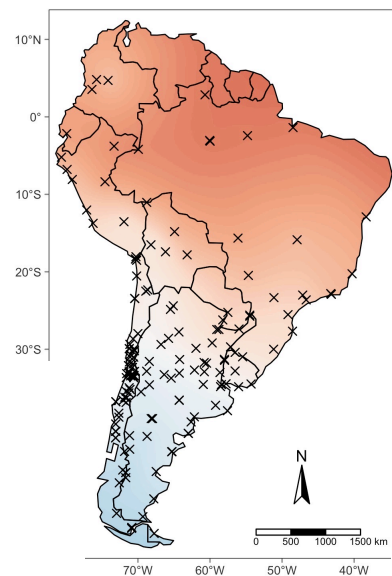
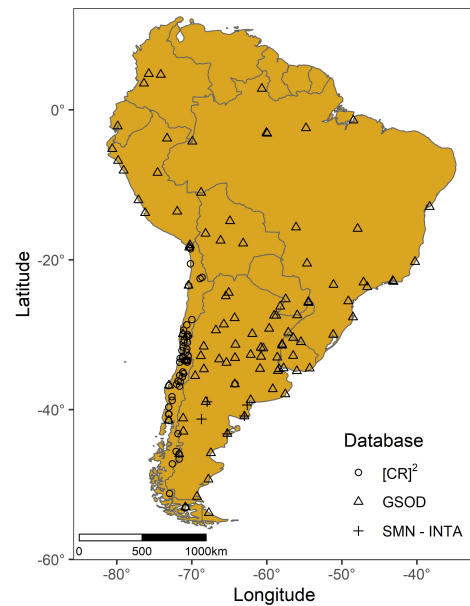
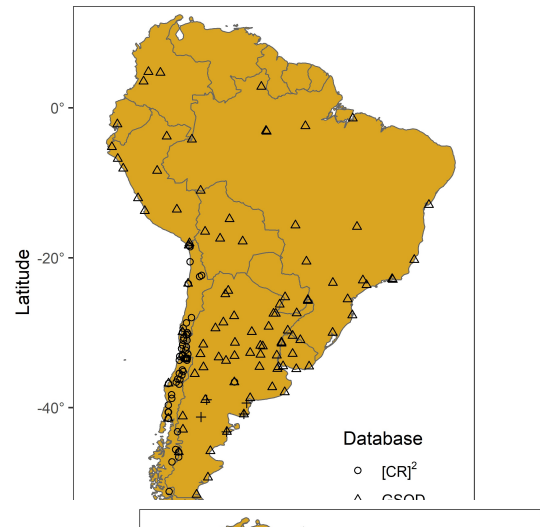
Correction variable maps
(WorldClim)

Output

Safe Winter Chill map







1. Chill observation → produce kriged map of chill
2. Map of correction variable → extract information only for the weather stations location → kriged correction variable
3. (Compare kriged and original map of correction variable)
4. Set up model of chill explained by correction variable
5. Insert values of kriged and original map of correction variable in model. Difference of the model output is the chill which is correction map
6. Adjust kriged chill by correction map