

WSPP regression task

Input

ERA5 single-level variables
(predictors)

Lidar wind profile
(predictand)

ML model

ML regression models
(each height independently)
[optimizing for RMSE]

Output

Wind speed profile
prediction

LLJ classification task

ERA5 single-level variables
(predictors)

Classified lidar wind profile
(LLJ yes/no) (predictand)

ML classification model
[optimizing for SEDI]

Binary LLJ prediction