Response1: Thank you for asking the question. The independent variables are latitude, longitude and elevation; the dependent variable is the air temperature (maximum temperature/mean temperature/minimum temperature). The machine learning models were trained for each month. We have explained the model training in the paper (See Preprint Lines 191–194): “We extracted the independent variables (i.e., latitude, longitude, and elevation) relating to the meteorological stations and randomly divided the processed data into a set for model training (70%) and a set for model evaluation and validation (30%). When train the models, the 10-fold cross-validation was used. We constructed a model for each month separately which means we have 840 models for the 840 months from 1951 to 2020. All algorithms were implemented in MATLAB R2020b.”

Response2: Thanks for your suggestion. We agree that open source code can help to understand the work. However, due to the requirements of the foundation, we may make the codes available after the acceptance of the work.