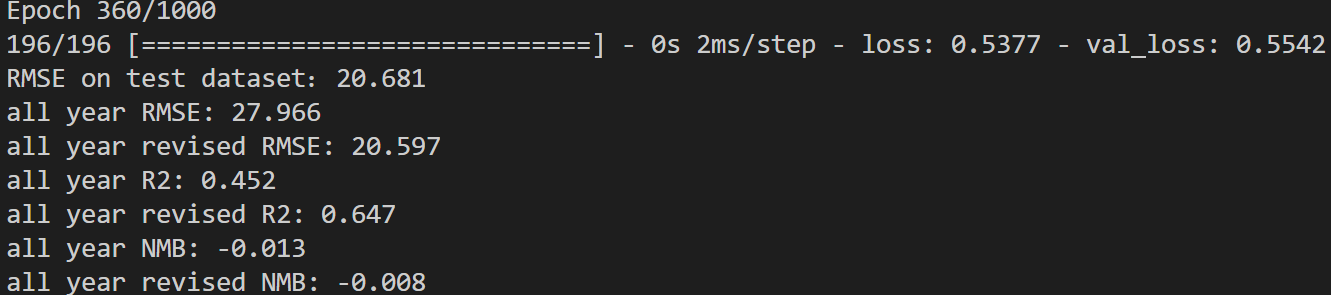
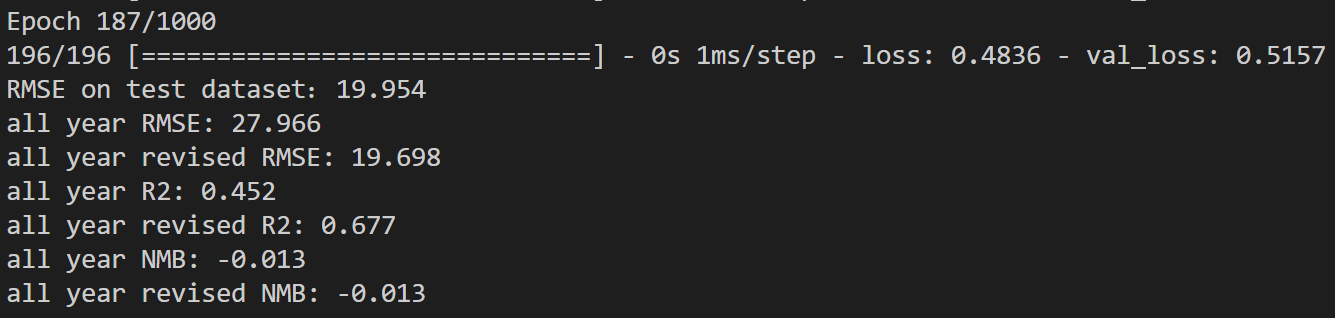
Feature selection

逻辑：一定要选的是PM2.5\_Bias\_ystd、PM2.5\_Sim，然后加入一个清单误差+一个气象误差特征；剩下的分别单个加入，每轮只选进1个变量，看loss降低，降低至0.3、RMSE\_test降至24左右就可以停止选特征

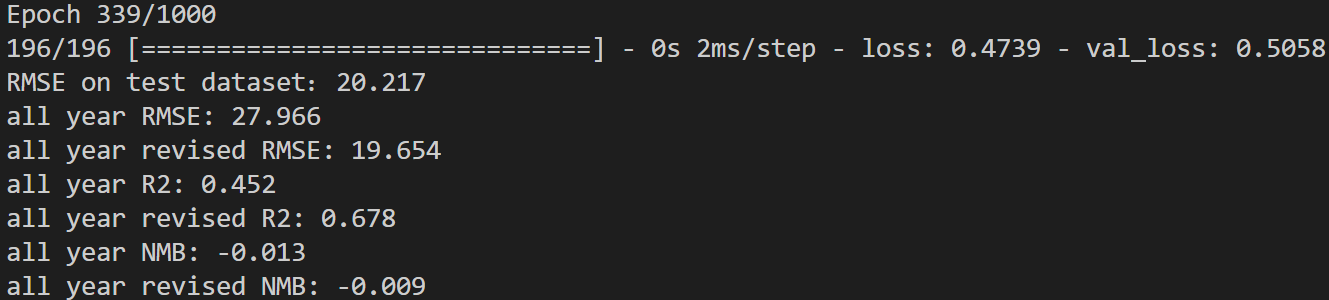




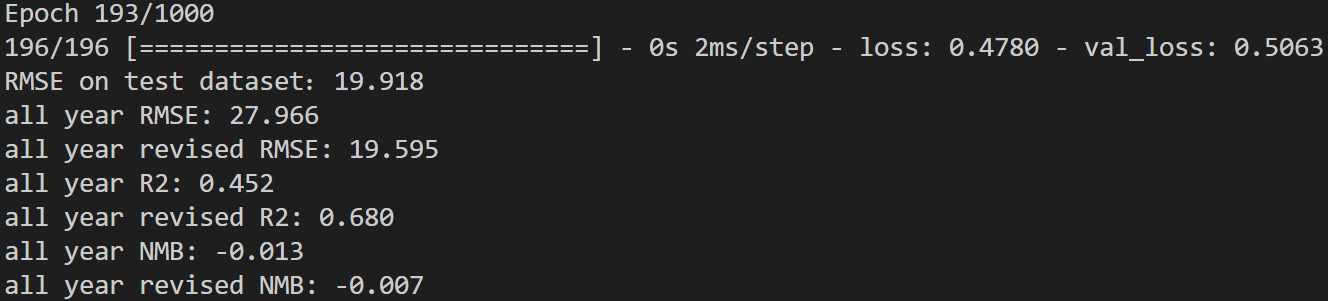




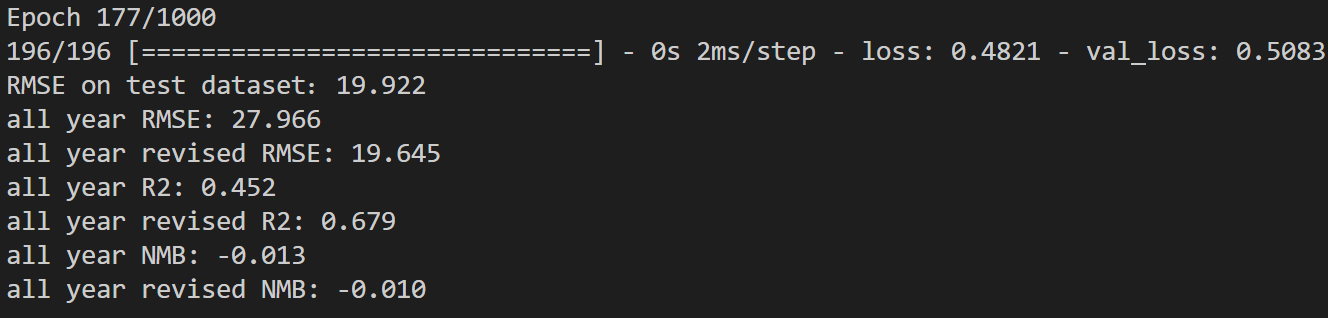




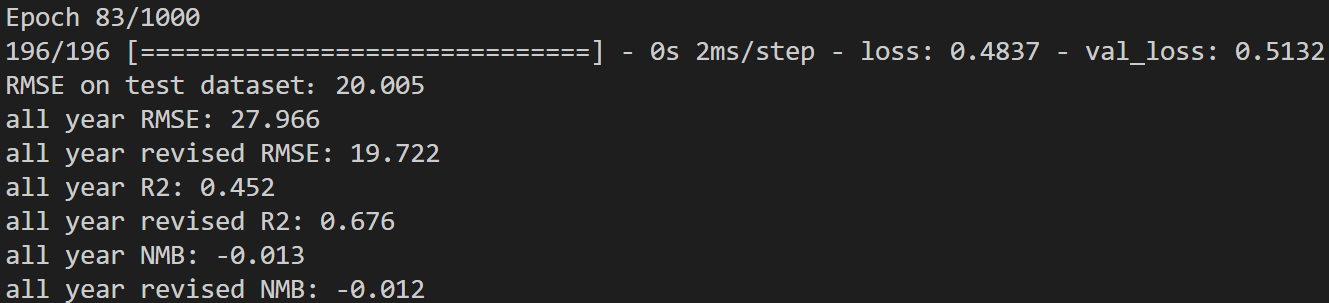




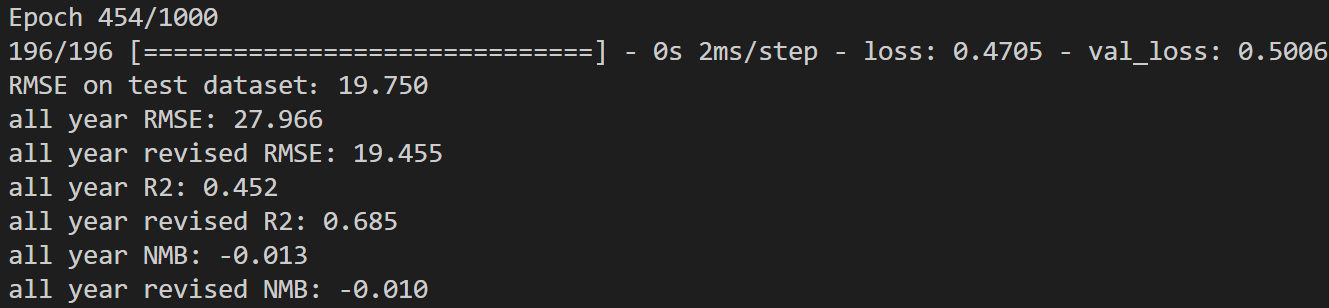




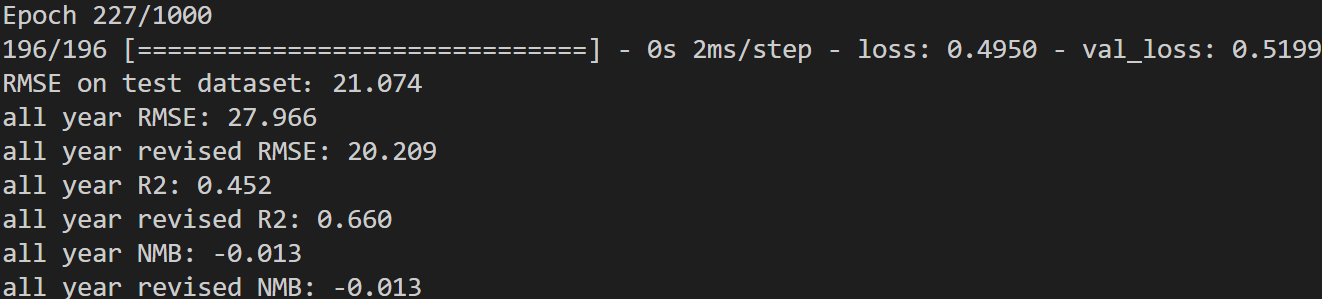




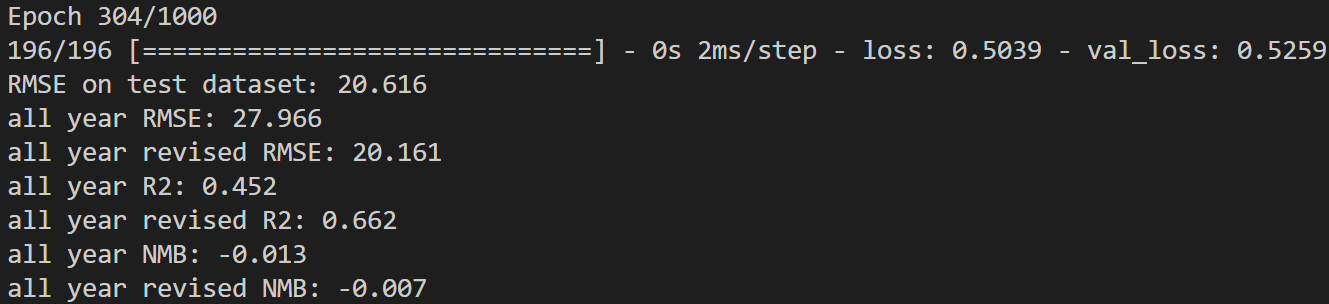




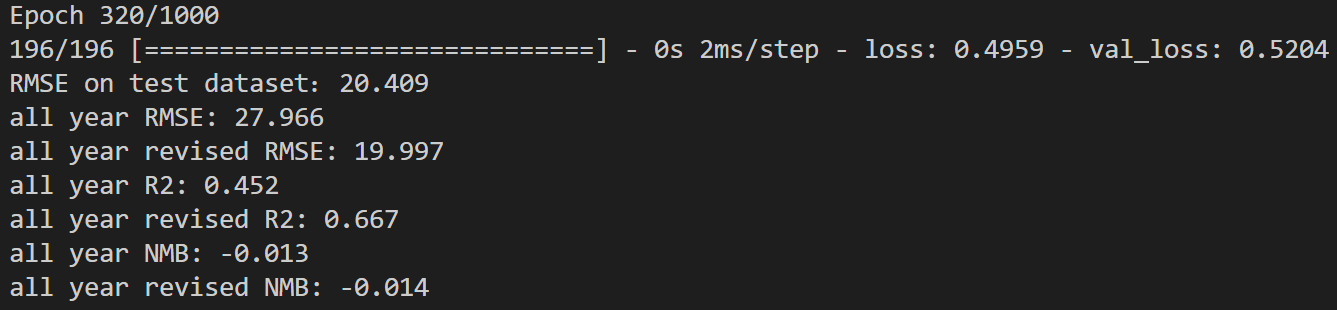




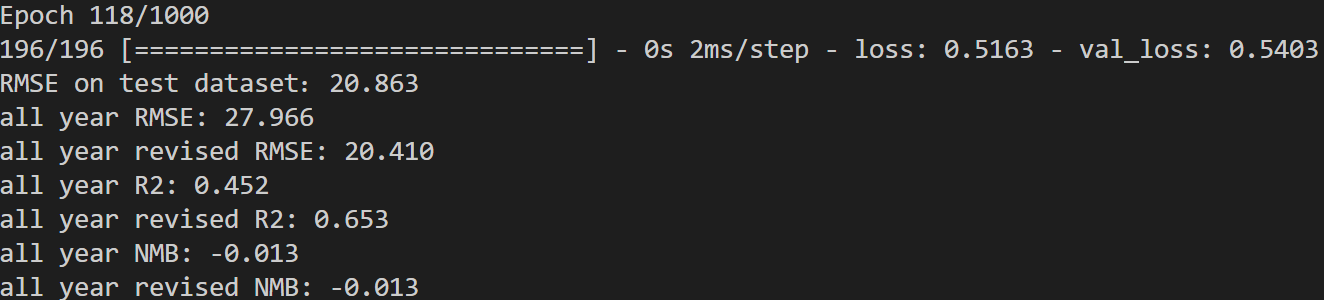




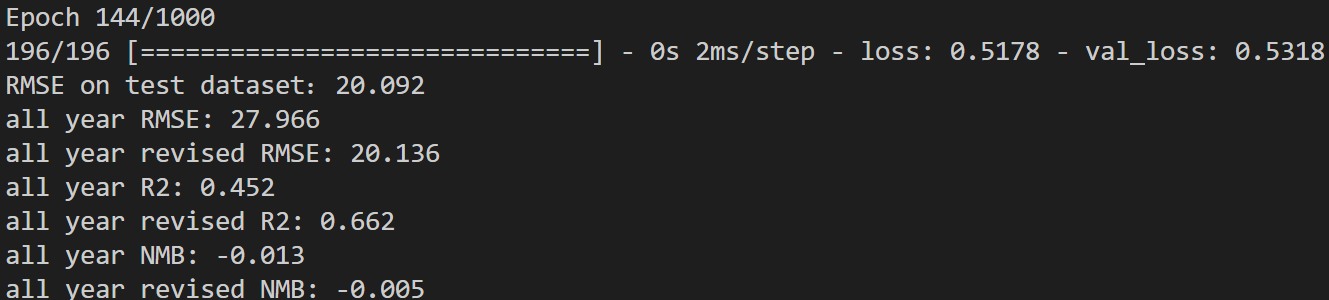








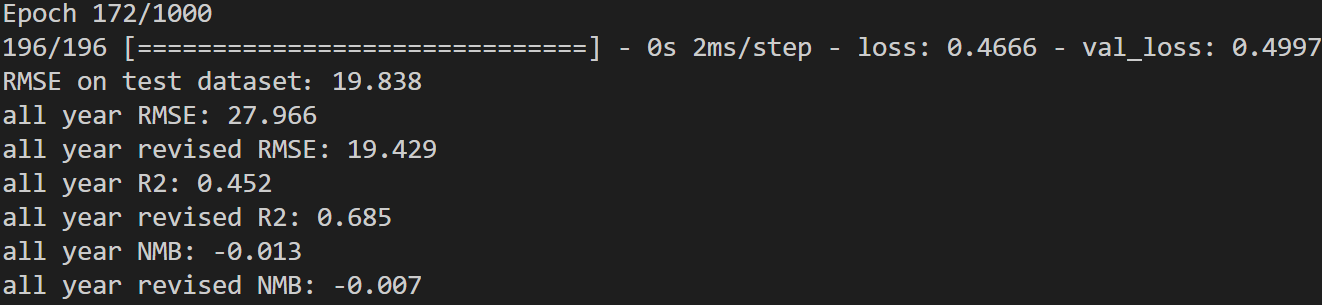




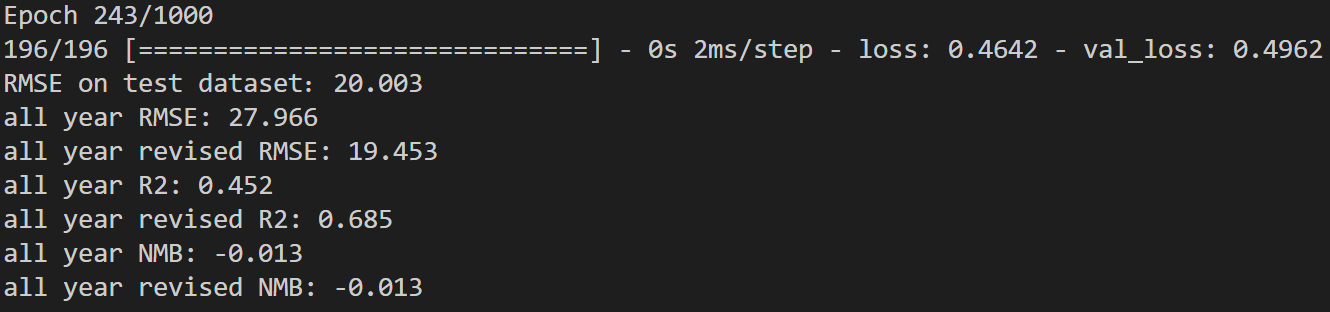
结论：一个清单误差项是NO2\_Bias，一个气象误差项是PRE\_Bias

下面单个加入变量：

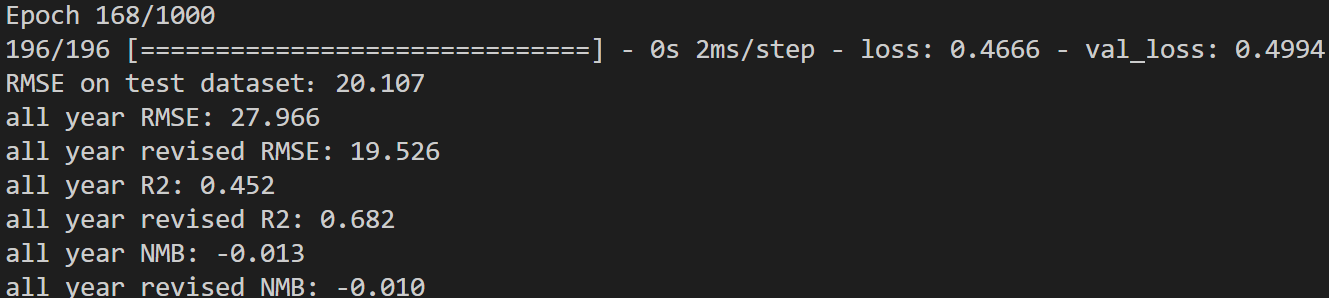




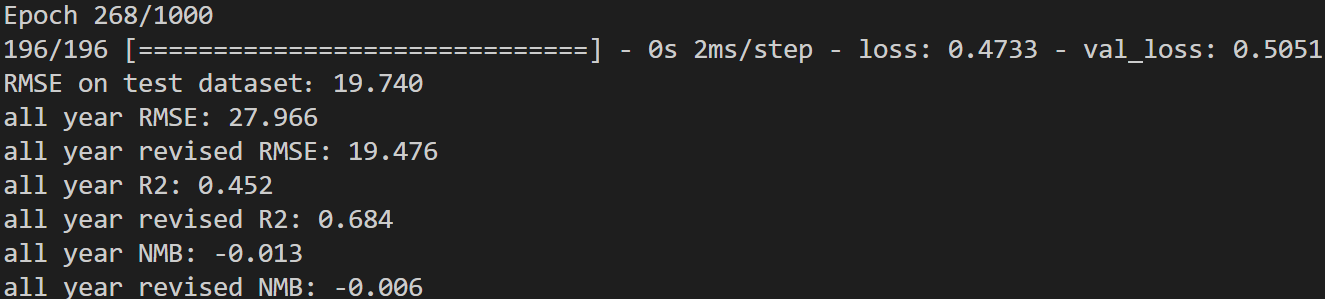




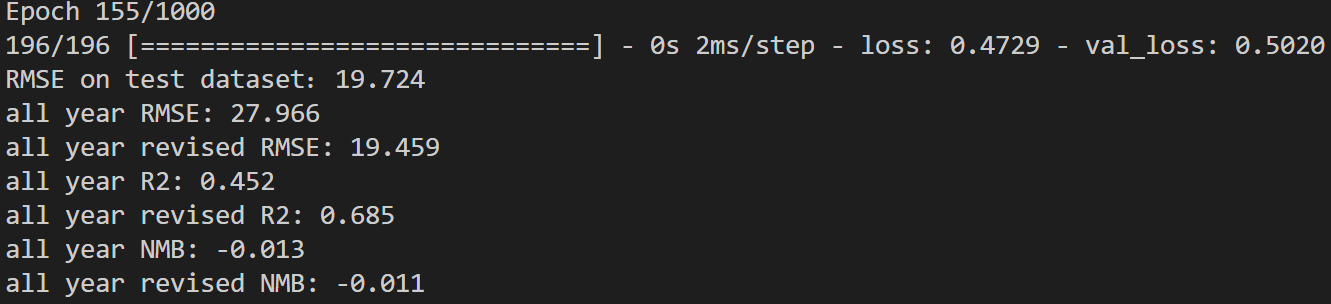




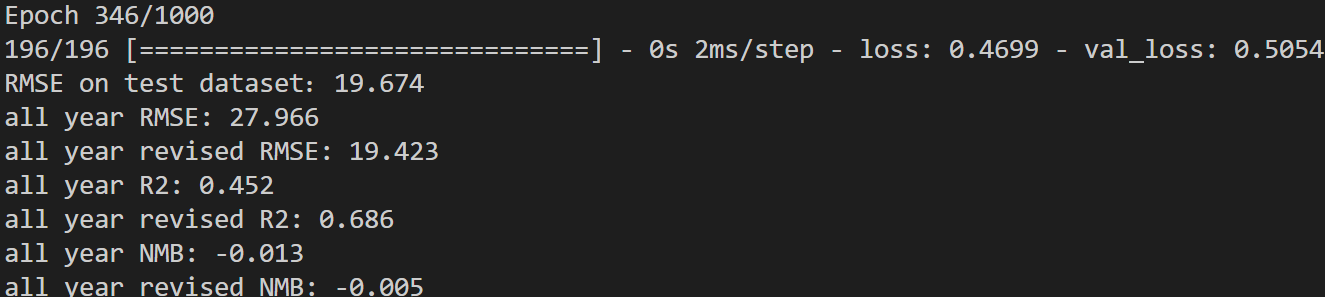








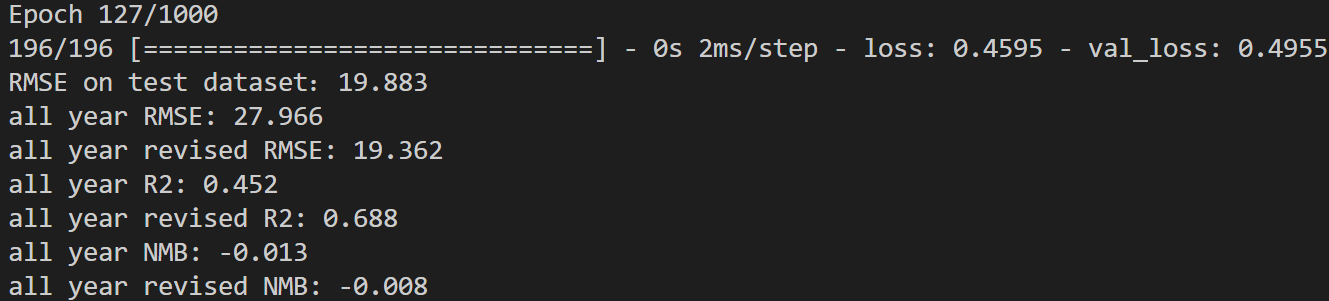




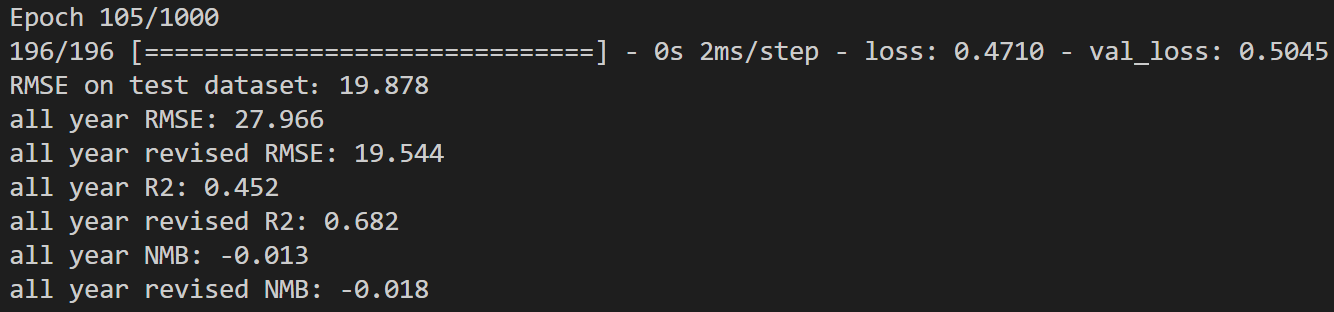
结论：WSPD\_Bias胜出

下一轮：

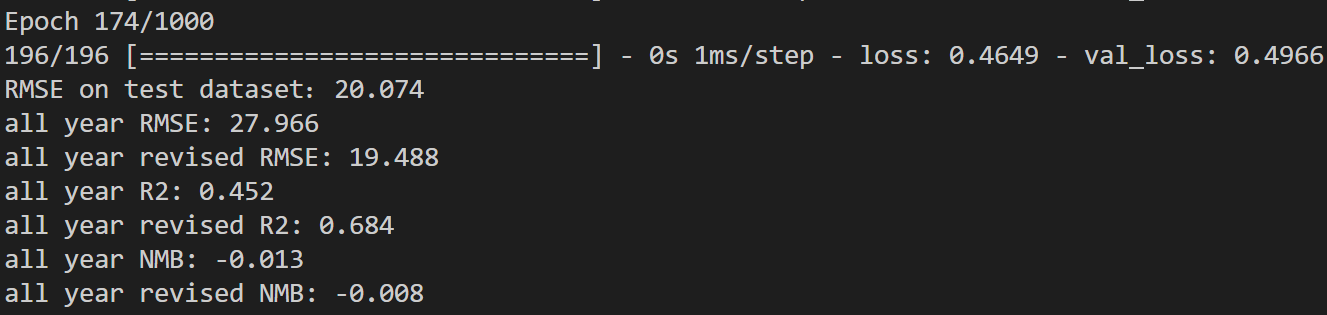




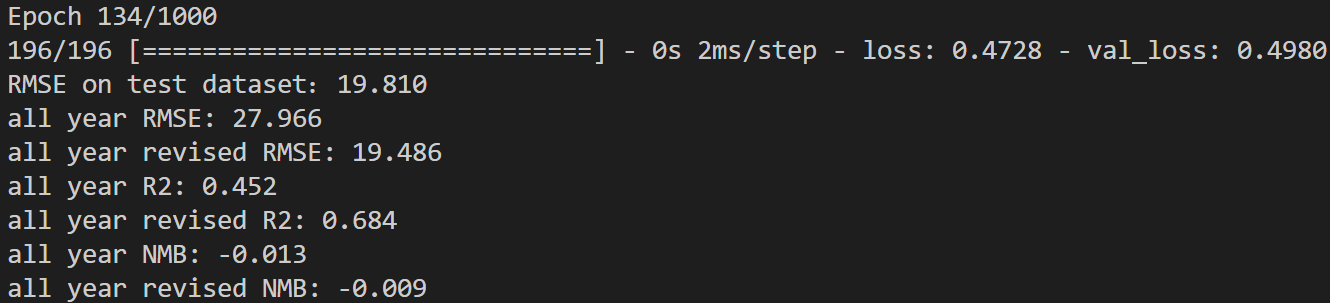




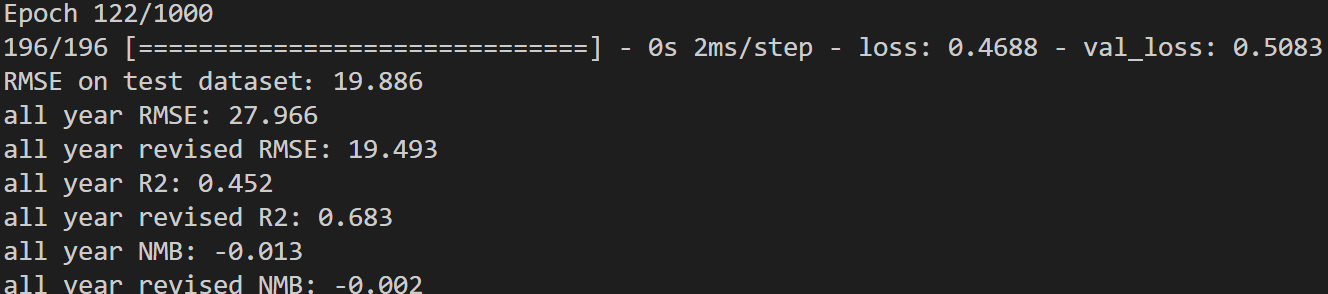








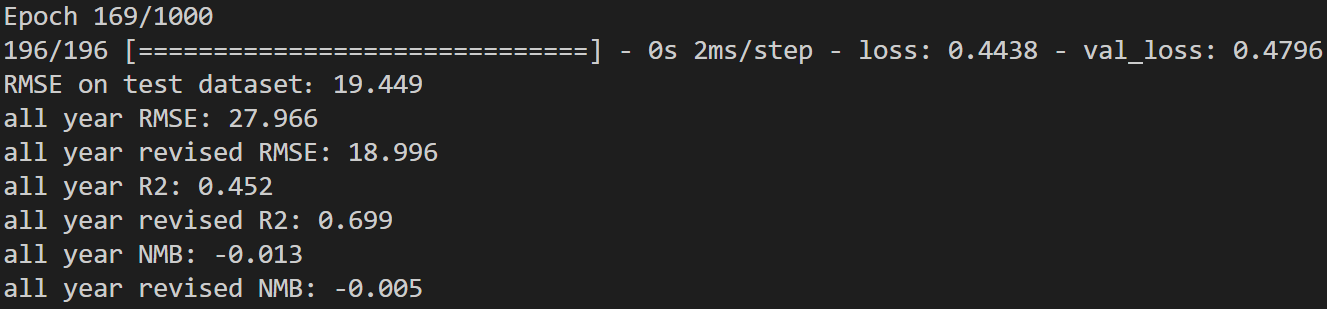




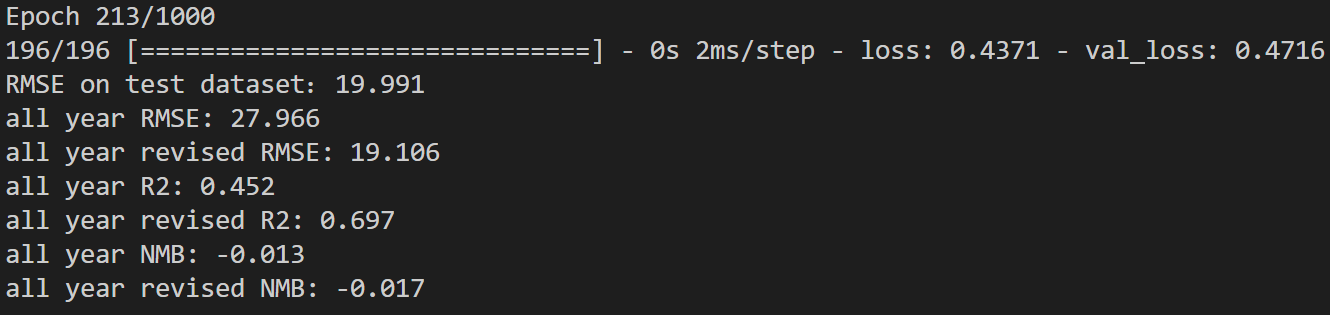
结论：无胜出

下一轮：

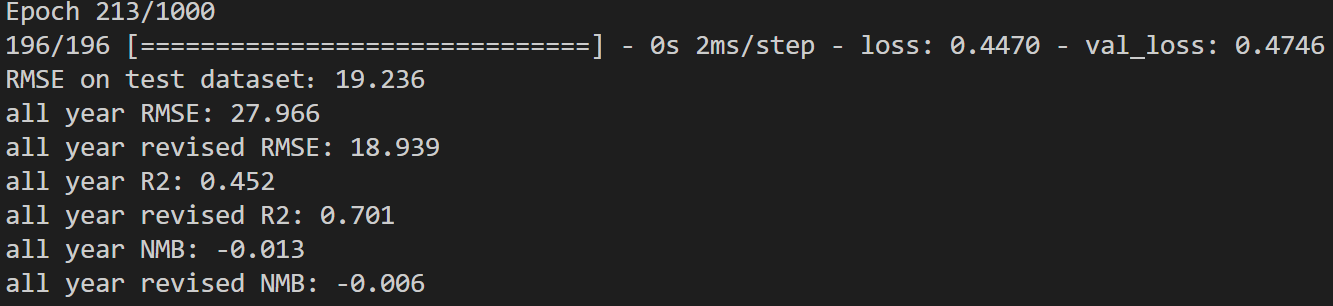




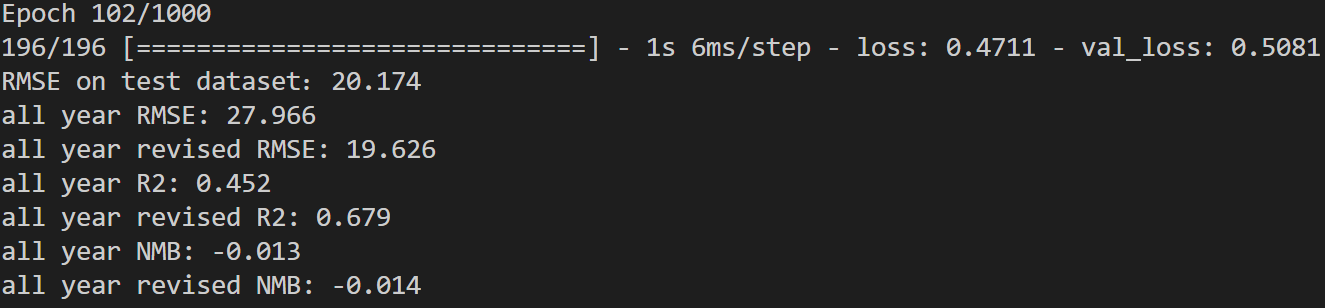




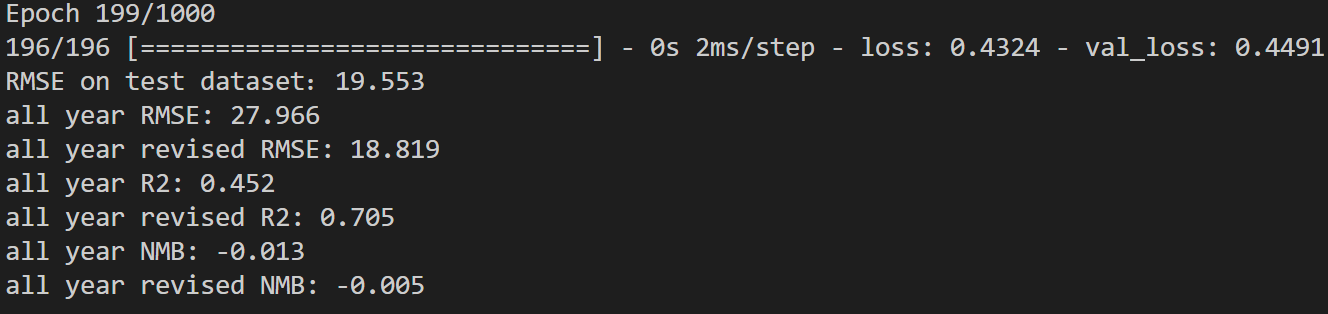




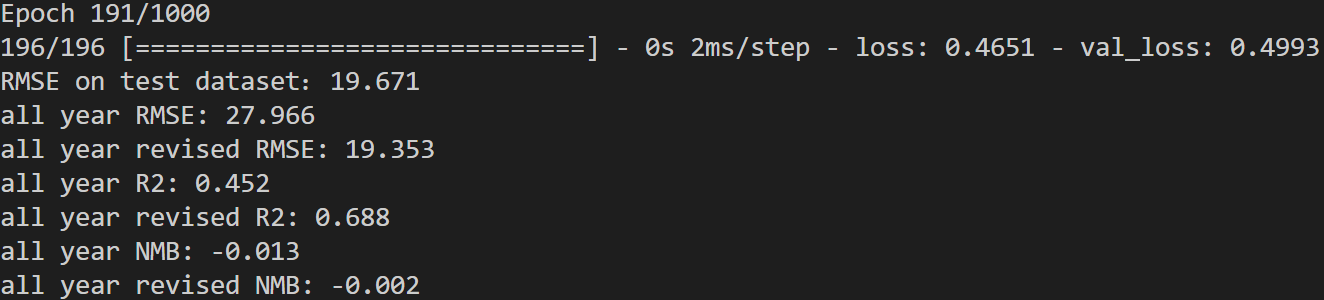




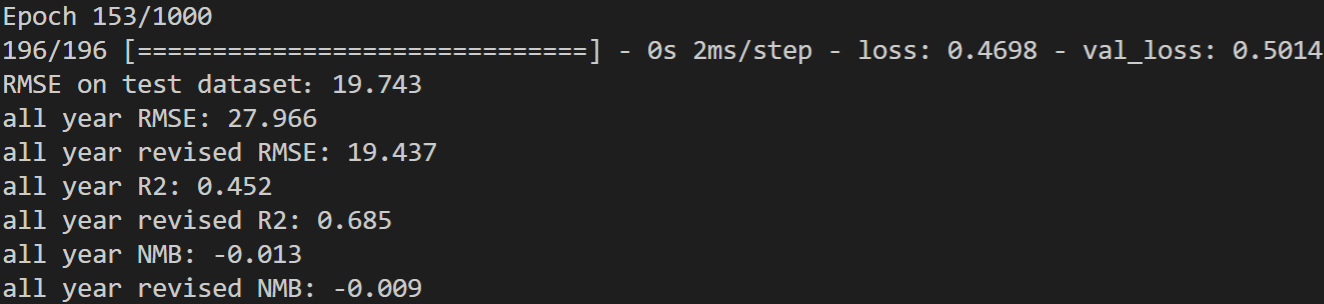








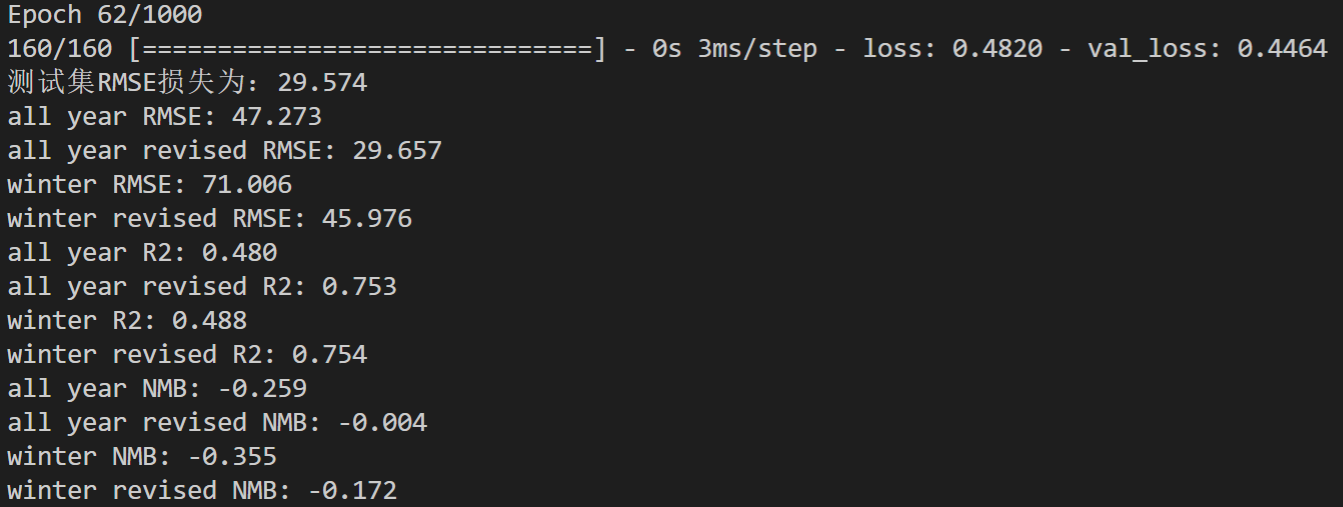




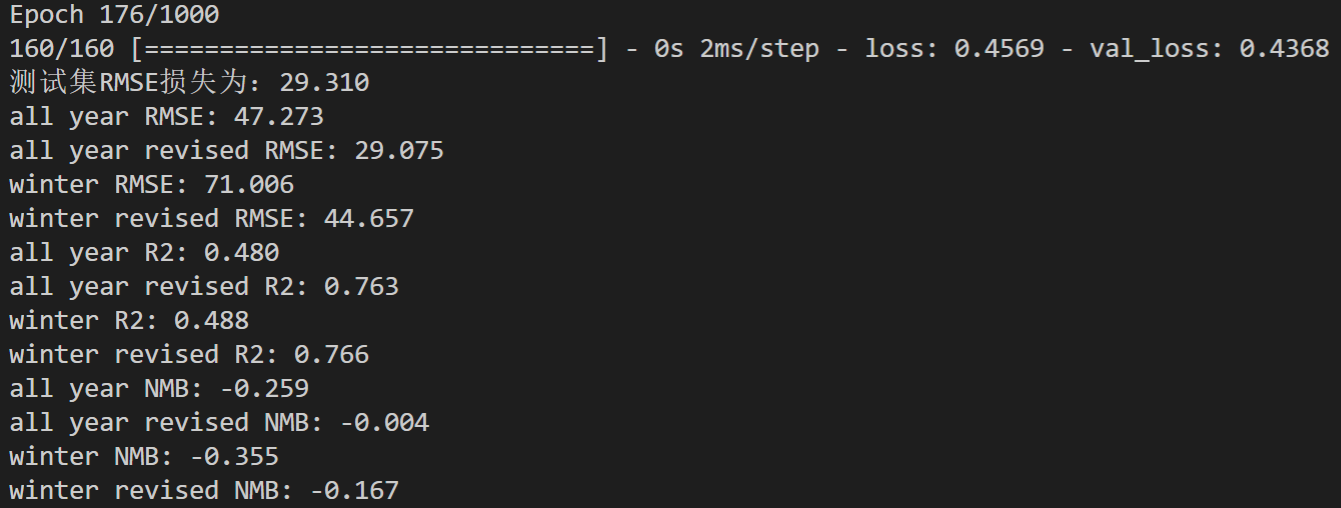
最终：

var\_sele = ['PM2.5\_Bias\_ystd','PM2.5\_Sim','NO2\_Bias','RH\_Bias','SO2\_Bias','WSPD\_Bias','NO2\_Obs','TEM\_Obs','RH\_Obs']



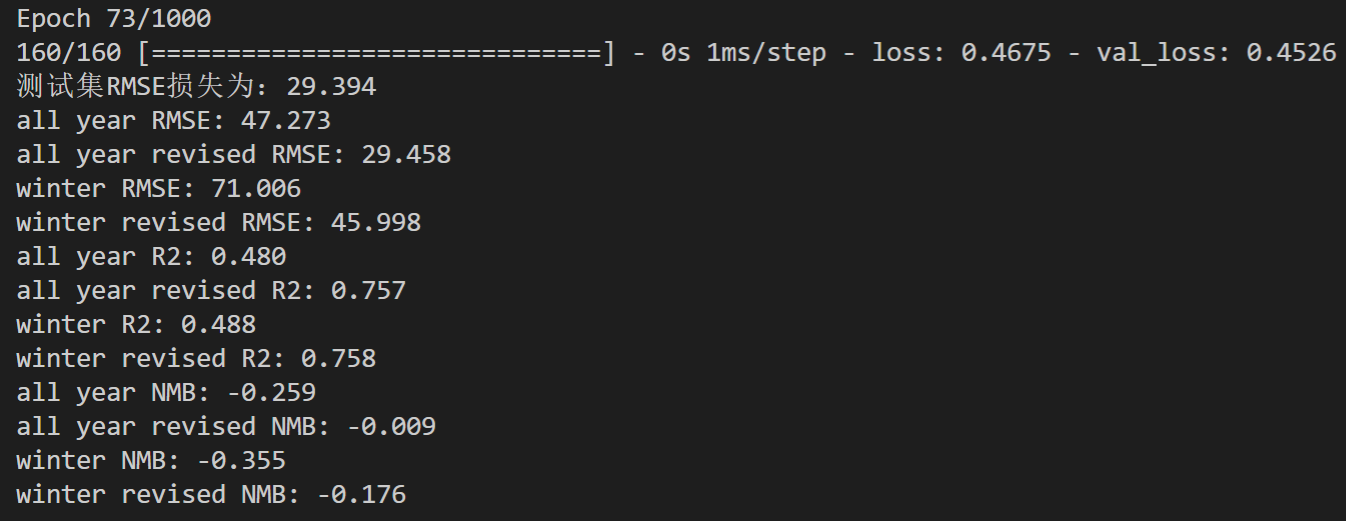




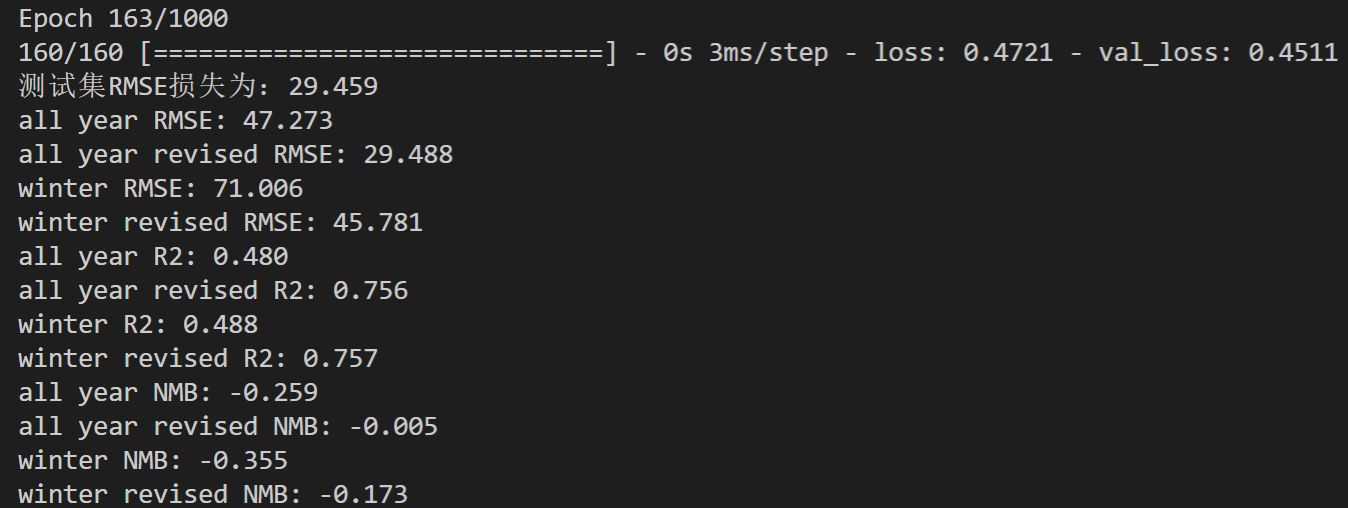




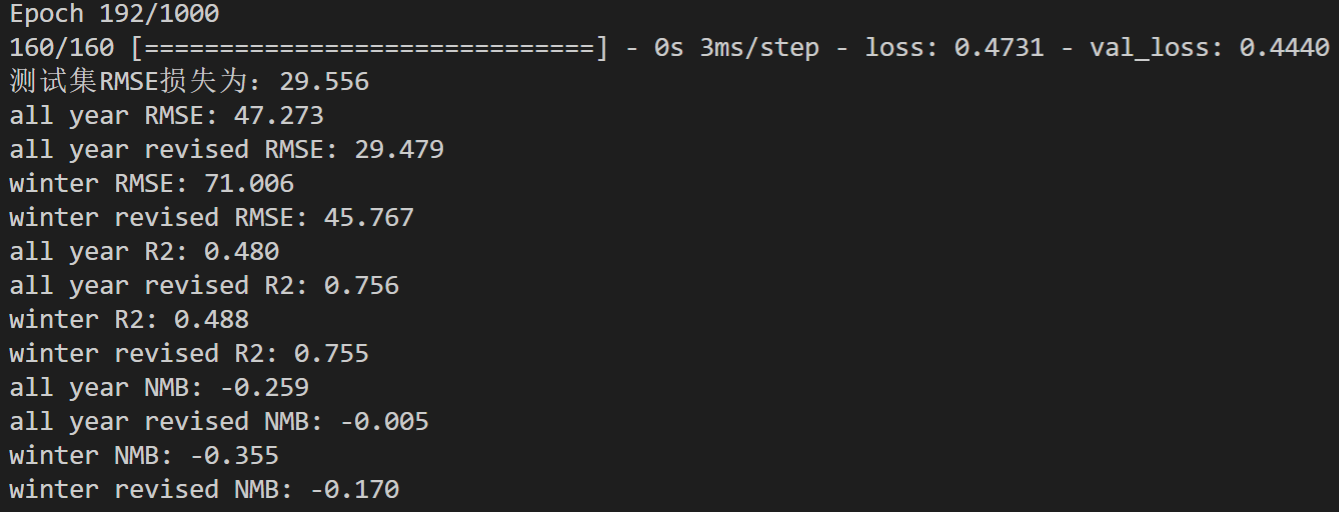




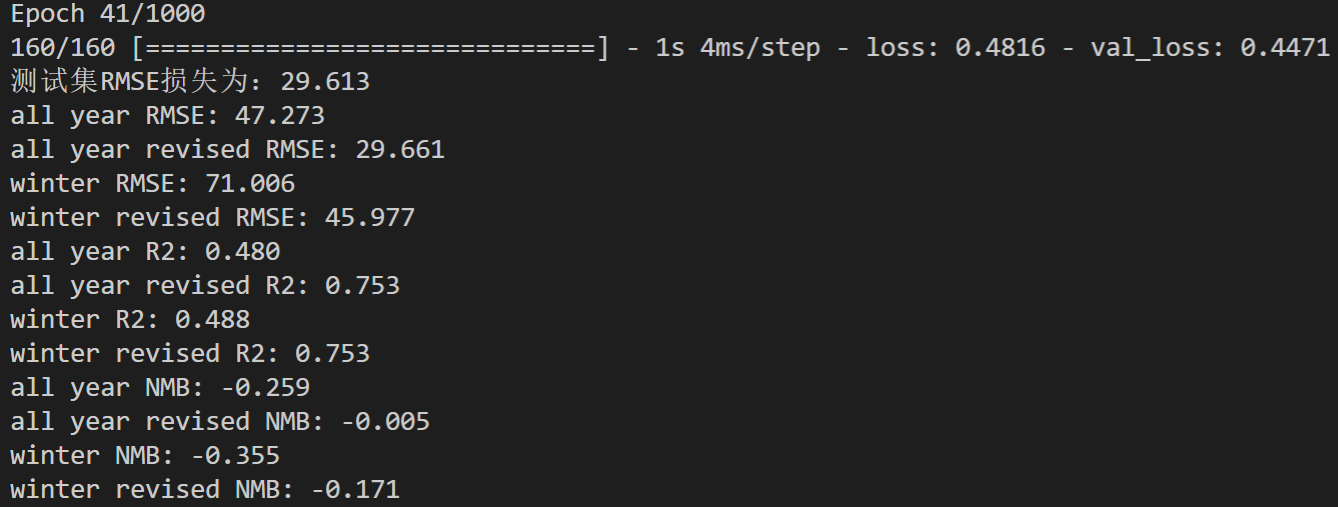




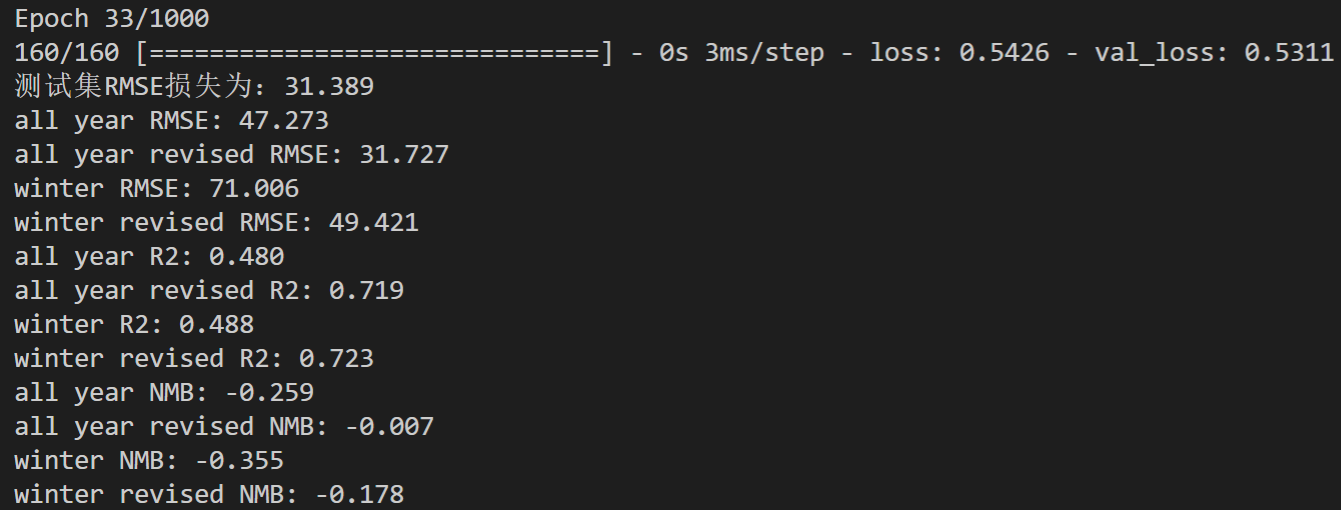




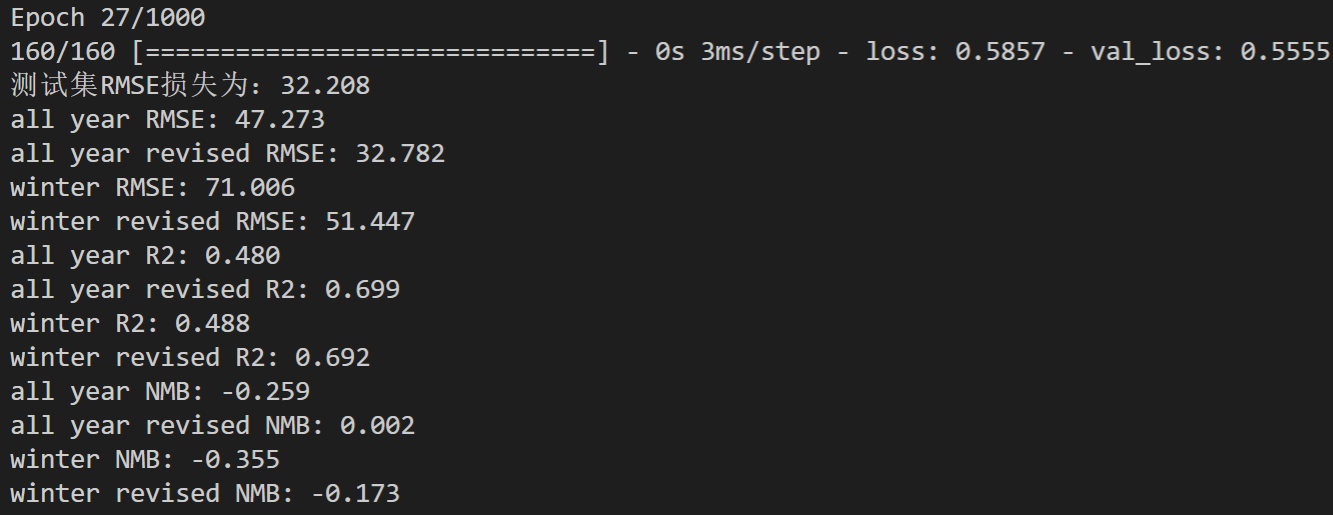




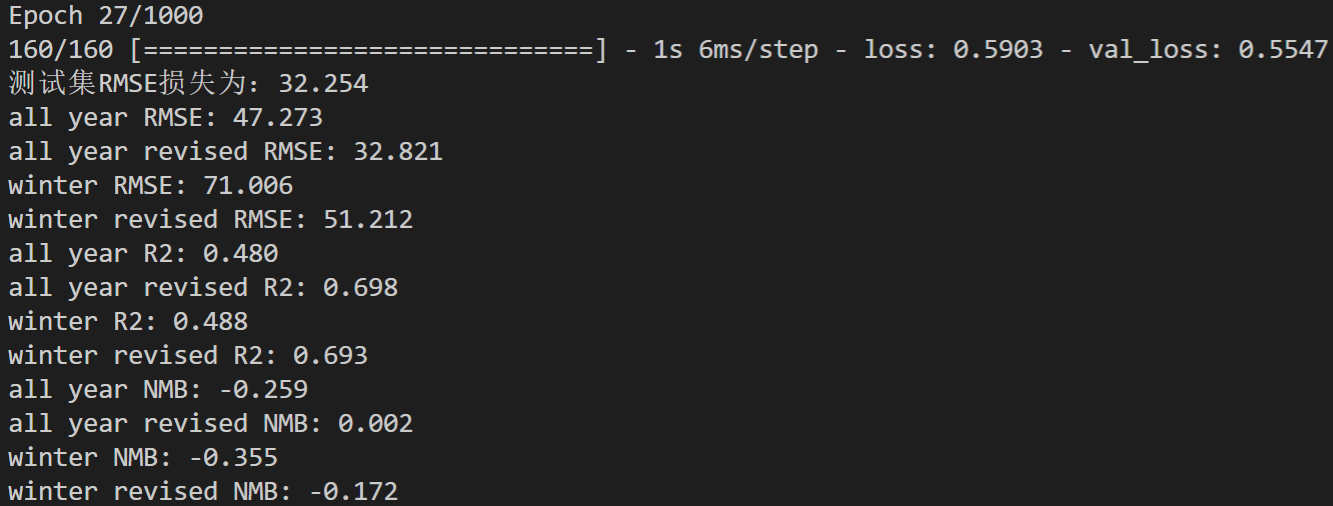




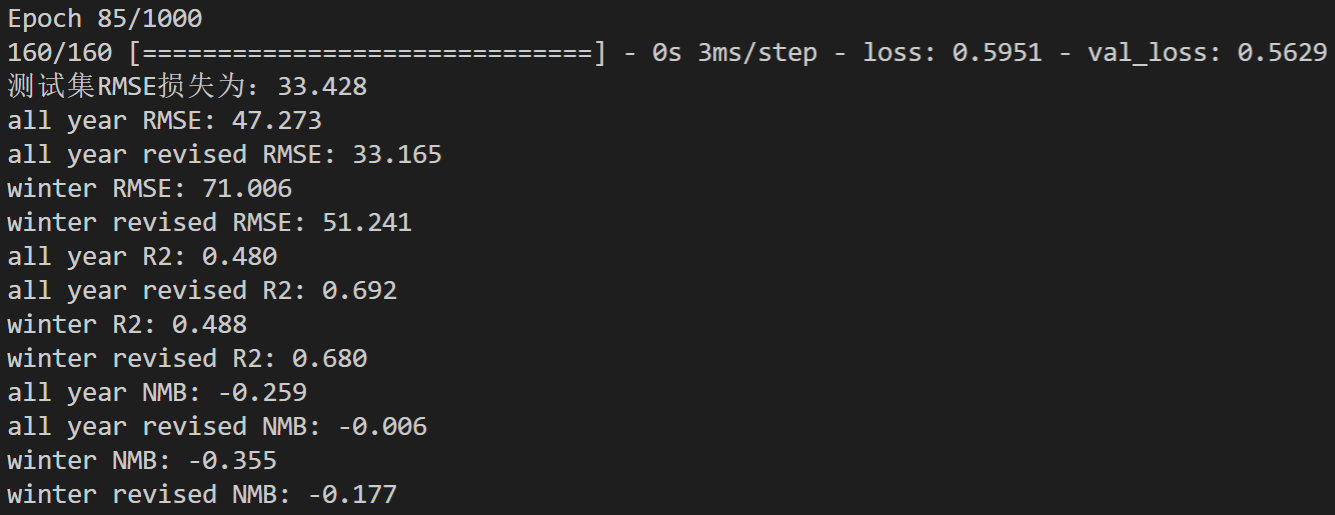




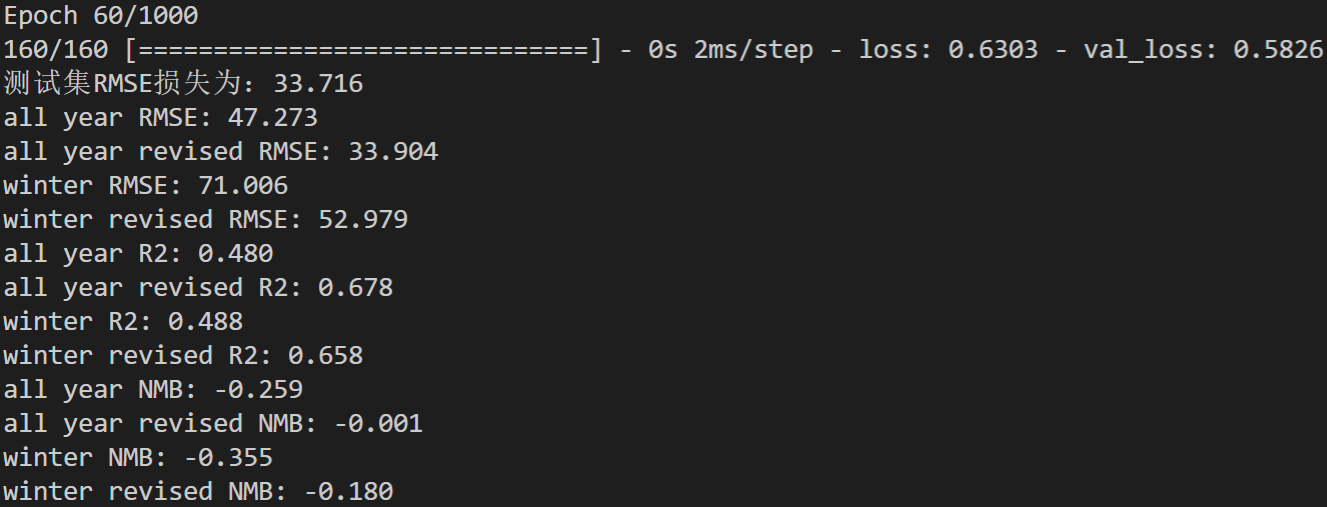












结论1：NO2\_Bias > SO2\_Bias = O3\_Bias

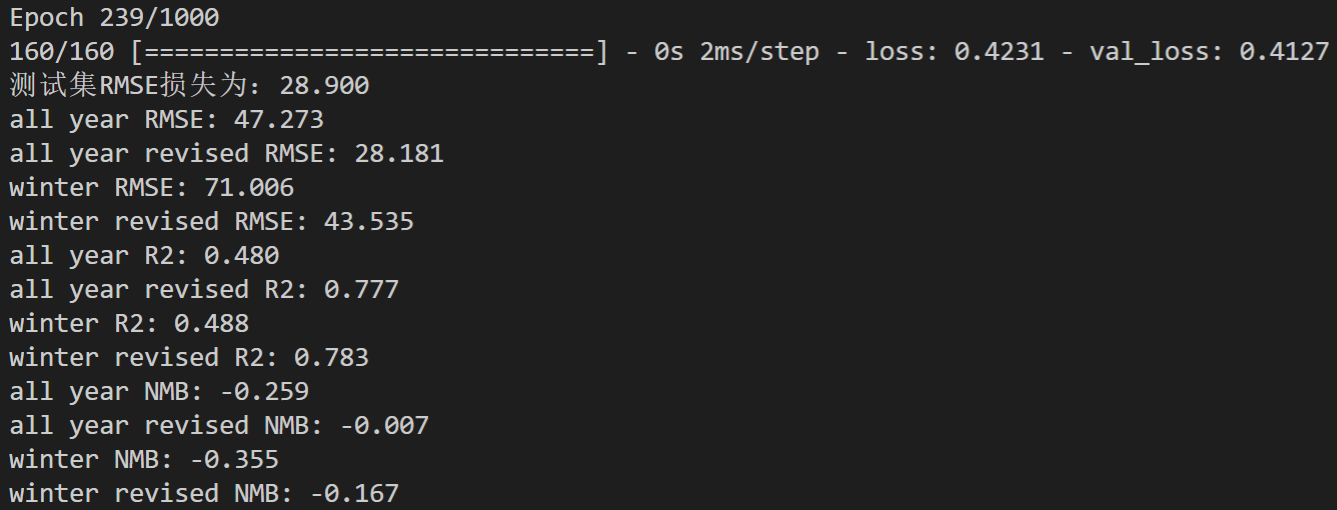
结论2：RH\_Bias > TEM\_Bias = WDIR\_Bias = WSPD\_Bias = PRE\_Bias

故：选择基准为：PM2.5\_Bias\_ystd + NO2\_Bias + RH\_Bias （RMSE\_test = 29.31，all year revised = 29.657）

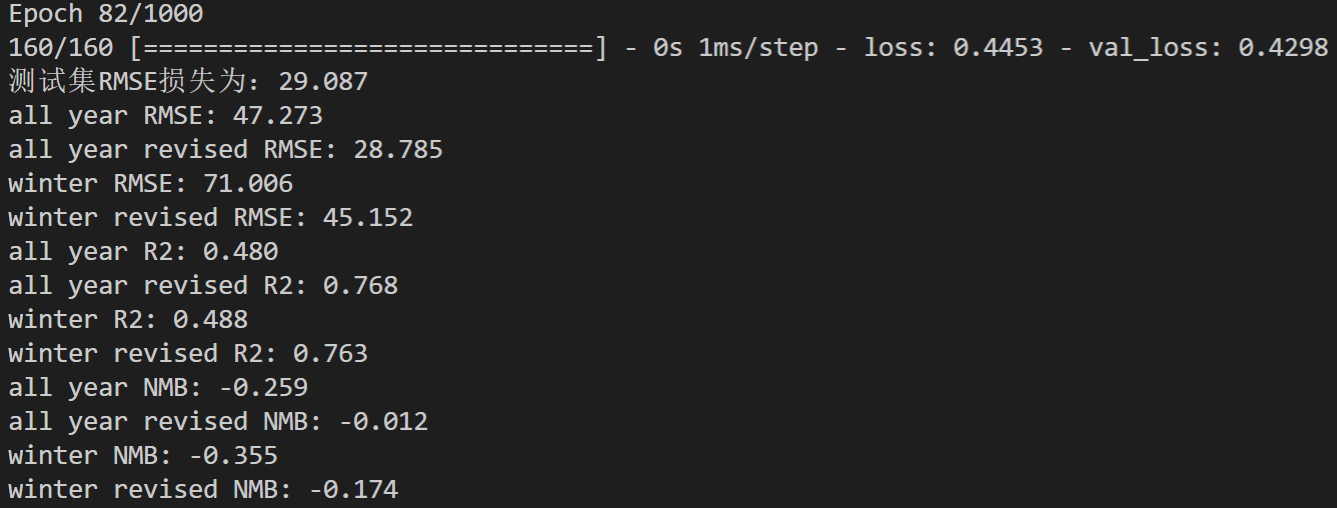
下面开始单入特征：

第一轮：

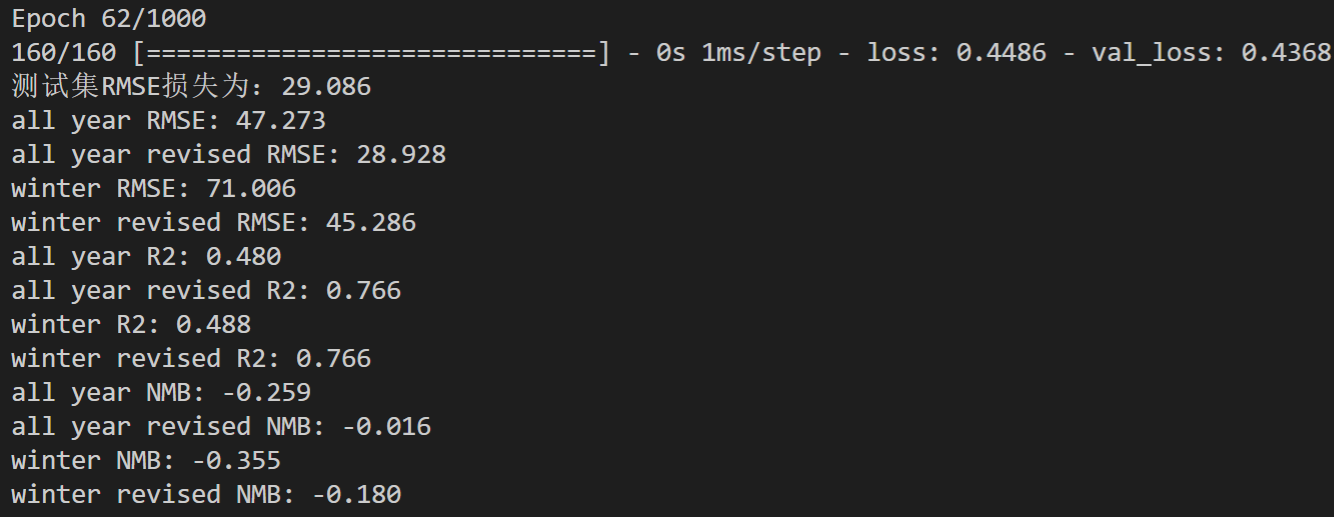




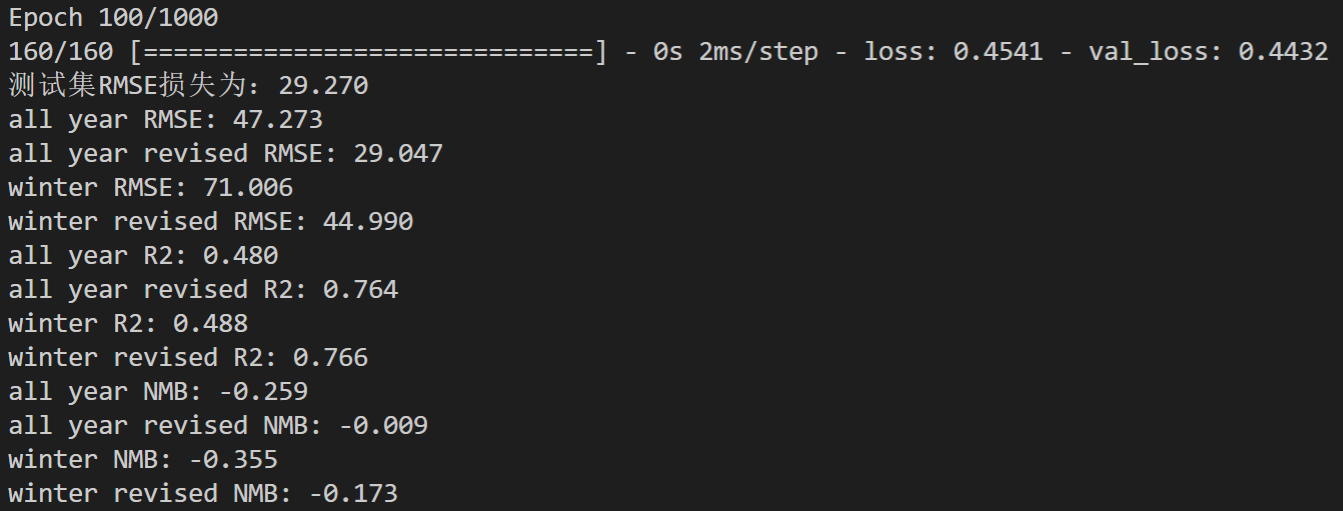




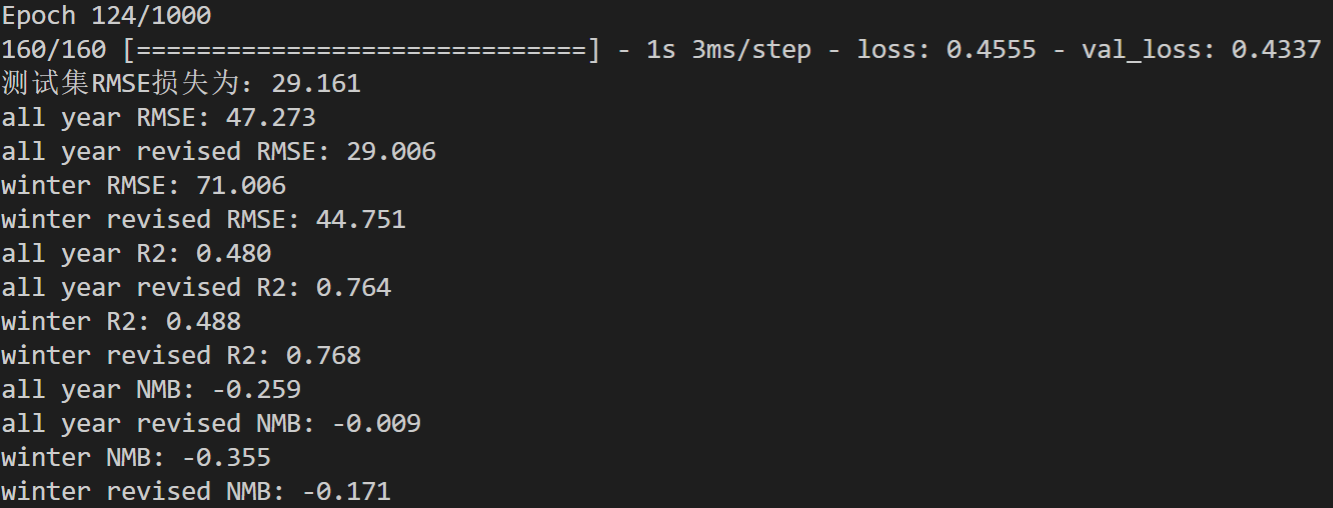




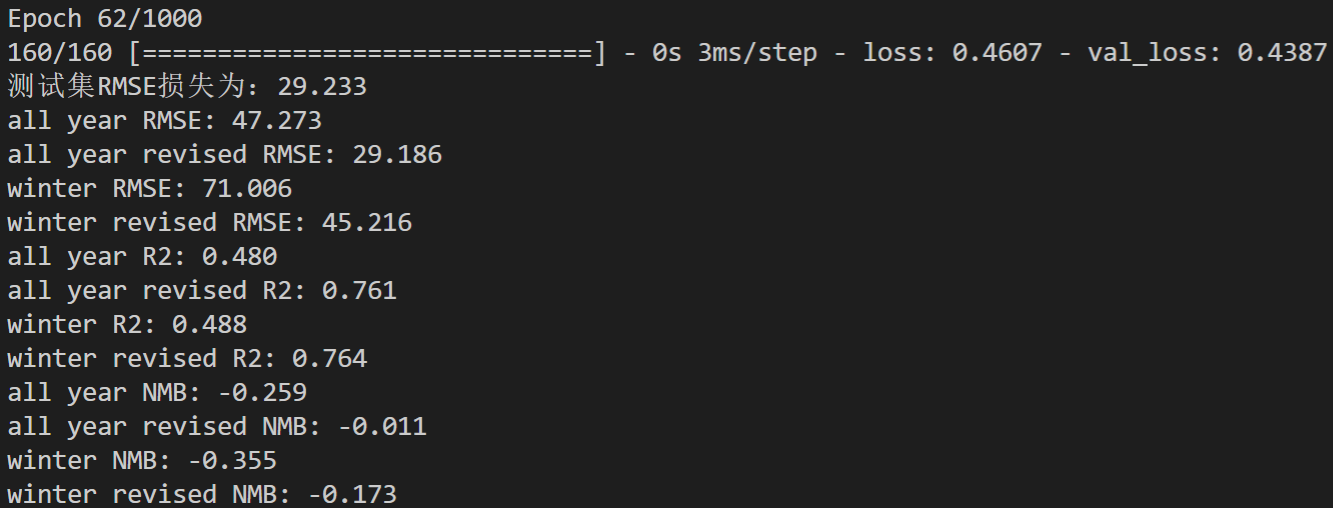








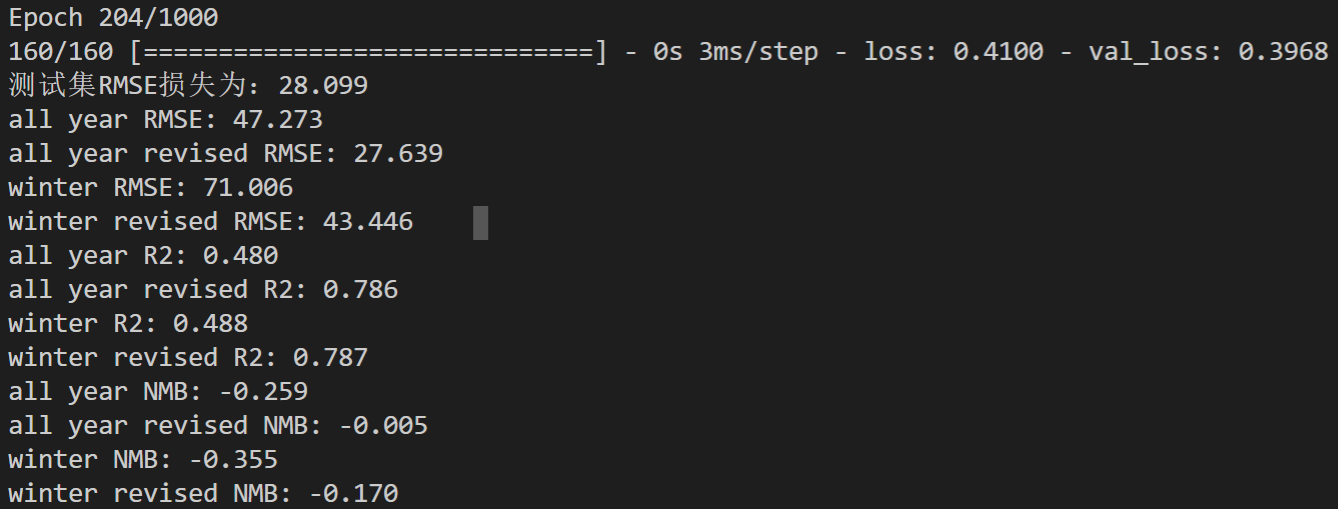




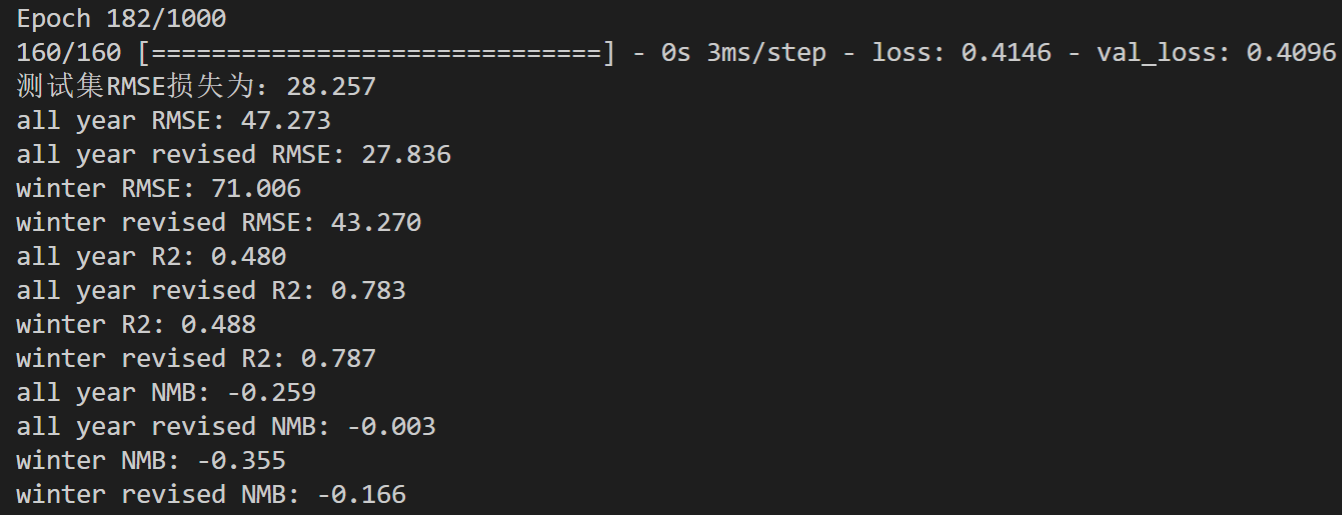
结论：选出SO2\_Bias

第二轮：

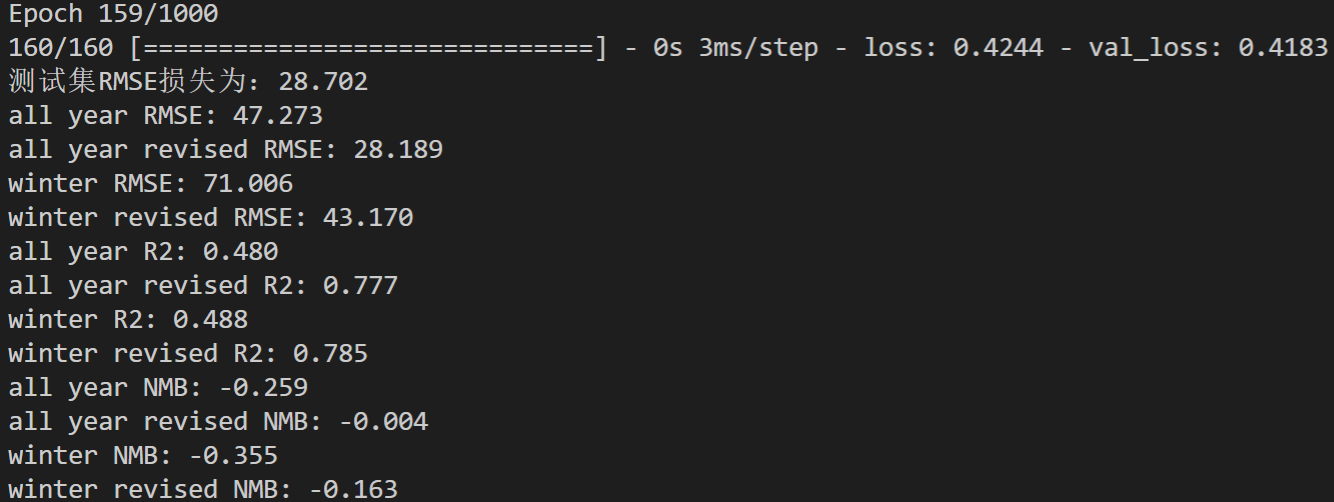




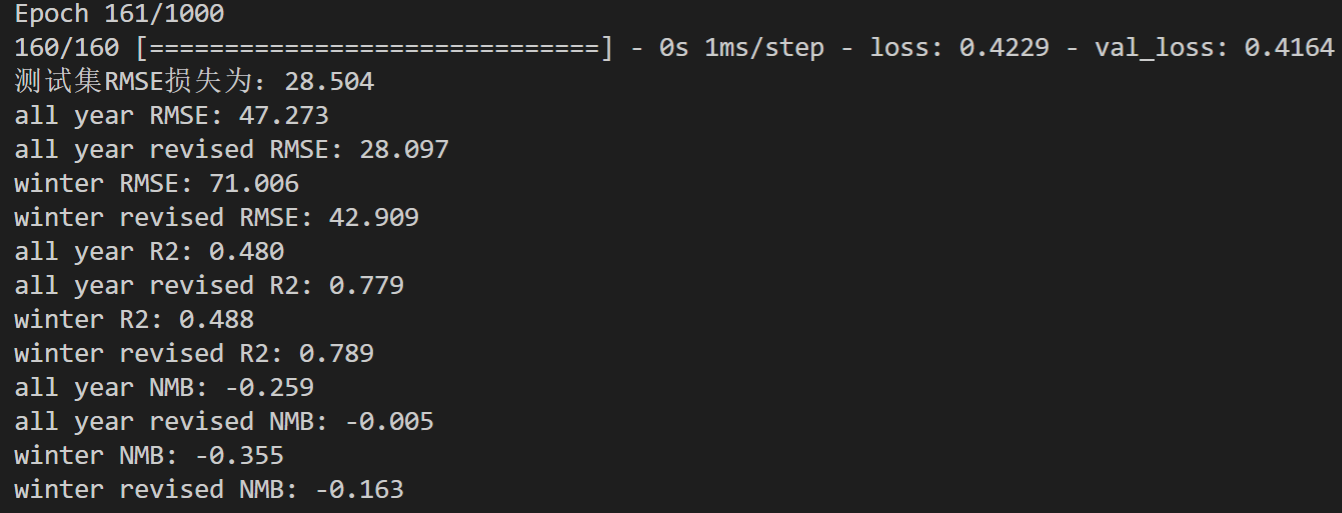




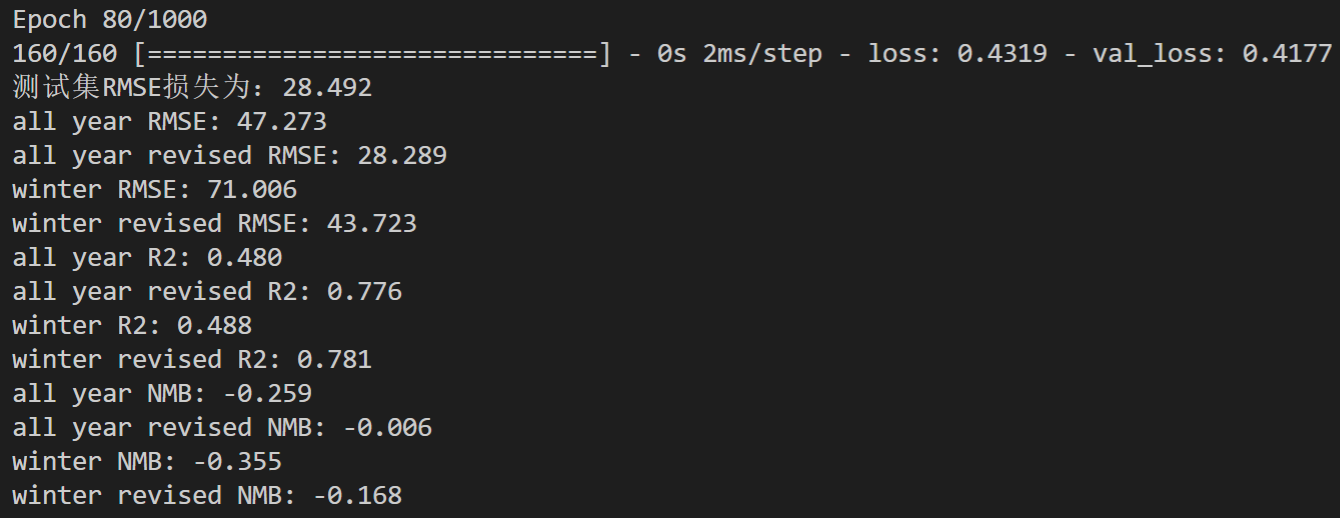












结论：选出O3\_Bias

第3轮：



