Pretraining done with ***gru layers frozen*** for target city Changping

|  |  |  |  |
| --- | --- | --- | --- |
| Base model chained cities | Base RMSE | Target RMSE | Remarks related to fit |
| Huairou | 14.95 | 15.68 |  |
| Huairou+Wanshouxigong | 15.39 | **14.91** | Significantly improved |
| Huairou+Wanshouxigong+Shunyi | 17.76 | 16.24 | worsened |
| Huairou+Wanshouxigong+Shunyi+  Gucheng | 15.84 | 16.46 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan | 16.06 | 15.57 | Slightly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi | 16.57 | 15.10 | Slightly worsened |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu | 15.36 | 15.72 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin | 16.34 | **14.07** | Significantly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan | 13.42 | 15.23 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan  +Guanyuan | 14.67 | 15.77 | Slightly worsened |

Pretraining done with ***no layers frozen/all layers trainable*** for target city Changping

|  |  |  |  |
| --- | --- | --- | --- |
| Base model chained cities | Base RMSE | Target RMSE | Remarks related to fit |
| Huairou | 14.95 | 15.24 |  |
| Huairou+Wanshouxigong | 15.39 | 15.23 | Slightly improved |
| Huairou+Wanshouxigong+Shunyi | 17.76 | 15.20 | Slightly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng | 15.84 | 15.44 | Slightly worsened |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan | 16.06 | 14.76 | Significantly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi | 16.57 | 14.73 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu | 15.36 | 14.79 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin | 16.34 | 15.05 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan | 13.42 | 15.04 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan  +Guanyuan | 14.67 | 14.54 | Significantly improved |

Pretraining done with ***all layers frozen*** for target city Changping

|  |  |  |  |
| --- | --- | --- | --- |
| Base model chained cities | Base RMSE | Target RMSE | Remarks related to fit |
| Huairou | 14.95 | 15.37 |  |
| Huairou+Wanshouxigong | 15.39 | 16.75 | Slightly worsened |
| Huairou+Wanshouxigong+Shunyi | 17.76 | 18.80 | Significantly worsened |
| Huairou+Wanshouxigong+Shunyi+  Gucheng | 15.84 | 15.80 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan | 16.06 | 14.94 | Significantly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi | 16.57 | 15.04 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu | 15.36 | 14.98 | Slightly improved |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin | 16.34 | 14.38 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan | 13.42 | 14.65 | Almost same |
| Huairou+Wanshouxigong+Shunyi+  Gucheng+Tiantan+Dongsi+Wanliu  +Aotizhongxin+Nongzhanguan  +Guanyuan | 14.67 | 14.05 | Almost same |