Spatial Transfer Learning using 16 months of data( 14 for training and 2 for testing) on base model

And using 2 months of data( 48 days of training and 12 days for testing) on target city(Changping)

Time Lag: 6

Target City: **Changping**

Without TL RMSE**: 26**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Base city | Base RMSE | TL  All layers frozen | TL  CNN+GRU layers trainable,  No frozen layers | TL  GRU layers  frozen  (31-35) |
| Aotizhongxin | 17.11 | **15.13** | 17.28 | 15.28 |
| Dongsi | 17.26 | 15.17 | 16.27 | 15.62 |
| Guanyuan | 15.40 | 17.20 | 19.24 | 16.78 |
| Gucheng | 17.16 | 18.57 | 15.43 | 15.62 |
| Huairou | 15.55 | 16.16 | **14.98(best fit)** | 16.58 |
| Nongzhanguan | 13.97 | 17.25 | 17.29 | 15.33 |
| Shunyi | 17.004 | 19.85 | 15.26 | 16.87 |
| Tiantan | 16.74 | 16.22 | 15.50 | 15.63 |
| Wanliu | 16.36 | 18.17 | 16.83 | 18.04 |
| Wanshouxigong | 15.24 | 16.33 | 15.06 | **15.22** |