GPRChinaTemp1km: 1 km monthly minimum air temperature for China from January 1951 to December 2020

Region: China Time: January 1951 to December 2020 Spatial resolution: 1 km Temporal resolution: month Data format: GeoTIFF Unit: degree Celsius (°C)

For example, "Temp\_pred\_2020\_12\_Tmin.tif" means "monthly minimum air temperature of December 2020".

All the data start with "Temp\_pred\_" 2020: year 12: month Tmin: monthly minimum air temperature

"Suppl\_Tmin\_predict\_accuracy\_GPR.csv" contains the accuracy metrics for each raster file from January 1951 to December 2020. The accuracy metrics were obtained using the observed values of the meteorological stations, including mean absolute error (MAE), root mean square error (RMSE), and coefficient of determination (R<sup>2</sup>).

Each GeoTIFF raster file for each month was compressed into zip format to reduce the storage space.

Each zip file is about 40 MB.

Total storage space with zip format is about 31GB.