

HiMICd-NCP: A high-resolution (daily and 1km) atmospheric moisture index collection over the North China Plain during 2003~2020

1. Institutional information

1.1 Organization: School of Geography and Planning, and Guangdong Key Laboratory for Urbanization and Geo-simulation, Sun Yat-sen University, Guangzhou 510006, China.

2. Contact information

2.1 Authors:

Mrs. Su Zhiying (suzhy9@mail2.sysu.edu.cn)

3. Codes information

3.1 Data preprocessing code.py

Gridded datasets processing, extraction values using weather station and data cleaning are recorded in this file. The section called “Obtain data” should be performed in Google Earth Engine, and the rest is operational under Python 3.10.

3.2 HiMICd-NCP Code.py

The codes in “HiMICd-NCP Code.py” is used for model training and prediction, as well as for incorporating accuracy evaluation.

3.3 Figures code.py

The overall accuracy assessment of the 6 indices and the accuracy visualization code are also publicly available in the file named “Figures code.py” and the sample data required is publicly available in the "Data Samples" folder.