1. **National Oceanic and Atmospheric Administration (NOAA)**

* Website: <https://www.ncdc.noaa.gov/cdo-web/search>
* Data Type: Historical meteorological data for the United States, including temperature, precipitation, wind speed, etc.
* Data Format: CSV, TXT, etc.
* Data Range: From the early 19th century to the present.

1. **World Weather Online**

* Website: <https://www.worldweatheronline.com/past-historic-weather-api.aspx>
* Data Type: Global historical weather data, including temperature, precipitation, wind speed, etc.
* Data Format: JSON
* Data Range: From 2008 to the present.

1. **NASA Goddard Earth Sciences Data and Information Services Center (GES DISC)**

* Website: <https://disc.gsfc.nasa.gov/datasets>
* Data Type: Global historical meteorological satellite data.
* Data Format: NetCDF, HDF, etc.
* Data Range: From the 1970s to the present.

1. **China Meteorological Data Service Center (CMDC) (Temporarily Closed)**

* Website: <http://data.cma.cn/>
* Data Type: Historical meteorological data for China.
* Data Format: TXT
* Data Range: From 1951 to the present.

1. **Historical Weather**

* Website: <https://rp5.ru/>
* Data Type: Global historical weather data, including temperature, humidity, wind speed, precipitation, etc.
* Data Frequency: Every three hours.
* Data Range: From 1948 to the present.
* Data Format: Displayed in HTML pages; data can be acquired using web scraping tools or by manual copying and pasting.
* Access Method: Visit the website, select the location and time range, and view the historical weather data.

1. **Weather Data SYNOPS/BUFR - GFS/ECMWF Forecast - Meteomanz.com**

* Website: <http://www.meteomanz.com/index?l=1>
* Data Type: Historical weather data from around the world, including temperature, humidity, wind speed, precipitation, etc.
* Data Format: SYNOP and BUFR formats.
* Data Range: Several years of historical data.
* Access Method: Visit the website, browse the data directory, and download the required historical weather data files.

1. **Weather Underground**

* Website: <https://www.wunderground.com/history>
* Data Type: Historical weather data for specific locations (e.g., Nanjing), including temperature, humidity, wind speed, precipitation, etc.
* Data Range: From 2005 to the present.
* Data Format: Displayed in HTML pages; data can be acquired using web scraping tools or by manual copying and pasting.
* Access Method: Visit the website, select the location and time range, and view the historical weather data.