

README file for "Tornado database in China mainland from 2003 to 2019.xls"

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Description of the data

According to the textual information provided by *the Yearbook of Meteorological Disasters in China* from 2003 to 2019 and other public media report data, tornadoes occurring in China mainland from 2003 to 2019 were collected in this dataset, which includes tornado occurrence time, geographical location in terms of longitude and latitude, geographical locations and damage descriptions of tornadoes from the *Yearbook of Meteorological Disasters in China* and intensities of tornadoes in terms of EF scale. The temporal extent of tornadoes in the dataset is from the period of 2003 to 2019. The spatial extent of tornadoes in the dataset is China mainland. The database help to get a more detailed insight into tornado climatology and provides a forward step towards the rational assessment of tornado-induced disasters in China mainland.

Description of the column headings in the database

The descriptions can be found in the table: "parameters" in the "Tornado database in China mainland from 2003 to 2019.xls" file

- Event

The serial number of tornado

- Recorded Date

Date of the tornado recorded in the yearbook, the time interval (e.g., 2018-03-04/2018-03-05) indicates the approximate date range when the tornado occurred, not the duration of the tornado

- Starting Time

The starting time of tornado recorded in the *Yearbook of Meteorological Disasters in China*, UTC+8, in text format. Early morning, morning, noon, afternoon, evening, night, midnight, night to early morning refer to local time in China (UTC+8).

- End Time

The end time of tornado recorded in the *Yearbook of Meteorological Disasters in China*, UTC+8, in text format

- Notes on Time

The other time information about tornado recorded in the *Yearbook of Meteorological Disasters in China*, in text format

- longitude

The longitude of the tornado location, derived by geocoding method

- latitude

The longitude of the tornado location, derived by geocoding method

- Detailed locations

Detailed locations where the tornadoes are recorded from the *Yearbook of Meteorological Disasters in China*, in text format (in Chinese)

- Damage Descriptions

Damage Descriptions of tornado from the *Yearbook of Meteorological Disasters in China*, in text format (in Chinese)

- EF scale (Enhanced Fujita scale)

Tornado intensity given in Enhanced Fujia scale (EF scale)