A Big Earth Data Platform for Three Poles

**Observation dataset of forest ecosystems on the eastern margin of the Tibet Plateau (2005-2008)**

1、Description

These are the meteorological, soil, vegetation and other data observed by the Gongga Mountain Forest Ecosystem Test Station on the eastern margin of the Tibetan plateau, primarily from 2005 to 2008.
Meteorological data: temperature, air pressure, relative humidity, dew point temperature, water pressure, ground temperature, soil temperature (5 cm, 10 cm, 20 cm, and 40 cm), 10-minute average wind, 10-minute maximum wind speed, precipitation, total radiation, net radiation.
Tree layer biological observation data: diameter at breast height, tree height, life form
Shrub layer biological observation data: tree number, height, coverage, life form, aboveground biomass, underground biomass
Herb layer biological observation data: tree (strain) number, average height, coverage, life type, aboveground biomass, underground biomass
Leaf area index: tree layer leaf area index, shrub layer leaf area index, grass layer leaf area index
Soil organic matter and nutrients: soil organic matter, total nitrogen, total phosphorus, total potassium, nitrate nitrogen, ammonium nitrogen, available nitrogen (alkali-hydrolysable nitrogen), available phosphorus, available potassium, slowly available potassium, PH value in aqueous solution
Soil water content: depth, water content

2、Keywords

Theme：Soil,Precipitation,Radiation,Forest ecosystem,Vegetation,Biomass,Soil elements composition,Forest,Soil PH,Soil moisture/Water content,Pressure
Discipline：Atmosphere,Terrestrial Surface
Places：Tibetan Plateau , eastern margin
Time：2005-2008

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2.3MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.0 | - |
| west：73.0 | - | east：104.0 |
| - | south：28.0 | - |

5、Time frame:2005-01-14 08:00:00+00:00--2009-01-13 08:00:00+00:00

6、Reference method

References to data:

WANG Xiaodan. Observation dataset of forest ecosystems on the eastern margin of the Tibet Plateau (2005-2008). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecology.tpe.13.db2018

References to articles:

7、Supporting project information

The Response of Environmental Changes on Tibetan Plateau to Global Changes and Adaptation Strategy

8、Data resource provider

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