A Big Earth Data Platform for Three Poles

**WATER: Dataset of the automatic meteorological observations at the Linze inland river basin comprehensive research station (2008-2009)**

1、Description

This data set includes the observation data of the automatic meteorological station from January 2008 to September 2009 in Linze Inland River Basin Comprehensive station. The station is located in Linze County, Zhangye City, Gansu Province, with longitude and latitude of 100 ° 08 ′ e, 39 ° 21 ′ N and altitude of 1382m.
The observation items include: atmospheric temperature and humidity gradient observation (1.5m and 3.0m), wind speed (2.2m and 3.7m), wind direction, air pressure, precipitation, net radiation and total radiation, carbon dioxide (2.8m and 3.5m), soil tension, multi-layer soil temperature (20cm, 40cm, 60cm, 80cm, 120cm and 160cm) and soil heat flux (5cm, 10cm and 15cm).
Please refer to the instruction document published with the data for specific header and other information.

2、Keywords

Theme：Soil,Precipitation,Radiation,Temperature,Net radiation,Winds,Soil temperature,Solar radiation,Wind direction,Soil moisture/Water content,Air temperature,wind speed,Soil heat flux
Discipline：Atmosphere,Terrestrial Surface
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, Linze Inland River Basin Comprehensive Station
Time：2009, 2008

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：14.7MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.35 | - |
| west：100.13 | - | east：100.13 |
| - | south：39.35 | - |

5、Time frame:2008-01-10 16:00:00+00:00--2009-10-09 16:00:00+00:00

6、Reference method

References to data:

MA Mingguo, ZHAO Wenzhi, Zhang Zhihui. WATER: Dataset of the automatic meteorological observations at the Linze inland river basin comprehensive research station (2008-2009). A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0292.db2011

References to articles:

Xu, T., Liu, S., Xu, L., Chen ,Y., Jia, Z., Xu, Z., &Nielson, J. (2015). Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. Remote Sensing, 7(3), 3400-3425.

7、Supporting project information

The CAS (Chinese Academy of Sciences) Action Plan for West Development Project
National Program on Key Basic Research Project (973 Program

8、Data resource provider

name: Zhang Zhihui
unit:
email:

name: MA Mingguo
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
email: mmg@lzb.ac.cn

name: ZHAO Wenzhi
unit:
email: