A Big Earth Data Platform for Three Poles

**HiWATER: Dataset of radiosonde sounding observations in Zhangye National climate observatory from Jun to Aug, 2012**

1、Description

Our project entrust the L band radiosonde sounding encrypt observations to Zhangye National Climate Observatory, and collect regular observation twice a day. The dataset contains three times one day at 8:00, 14:00, 20:00, which can support the remote sensing image atmospheric correction and atmospheric science research.  
Observation Site:  
Zhangye National Climate Observatory located in Shajing Town, west of ZhangYe. The coordinates of this site: 39°5′15.68" N, 100°16′39.11" E。  
Observation Instrument:  
China Meteorological Administration Operational L Band radiosonde system.  
Observation Time:  
The observation date last from 1 May, 2012 to 31 September, 2012, among which: Three times observations at 7:00-8:00, 13:00-14:00 and 19:00-20:00 during 1 June, 2012 to 31 August, 2012; twice at 7:00-8:00 and 19:00-20:00 during 2012-5-1 to 5-31 and 2012-9-1 to 9-31.  
Accessory data：  
Pressure, temperature, relative humidity, wind speed and wind direction profiles data.

2、Keywords

Theme：Radiation,Temperature,Winds,Solar radiation,Wind profiles,Humidity/Dryness,Air temperature  
Discipline：Atmosphere  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches, Zhangye National Climate Observatory  
Time：2012, 2012-05-01 to 2012-09-30

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.0MB

4.Data format：文本, \*.dat后缀

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.08769 | - |
| west：100.27753 | - | east：100.27753 |
| - | south：39.08769 | - |

5、Time frame:2012-11-08 23:07:00+00:00--2013-04-09 23:08:00+00:00

6、Reference method

References to data:

MA Mingguo. HiWATER: Dataset of radiosonde sounding observations in Zhangye National climate observatory from Jun to Aug, 2012. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.024.2013.db2018

References to articles:

Li, X., Liu, S.M., Xiao, Q., Ma, M.G., Jin, R., Che, T., Wang, W.Z., Hu, X.L., Xu, Z.W., Wen, J.G., Wang, L.X. (2017). A multiscale dataset for understanding complex eco-hydrological processes in a heterogeneous oasis system. Scientific Data, 4, 170083. doi:10.1038/sdata.2017.83.

7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

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