A Big Earth Data Platform for Three Poles

**Tree ring width and reconstructed precipitation soil water condition data series of the Northeastern Tibetan Plateau and dating data of the Delingha Area (1580B.C.-2006A.D.)**

1、Description

This dataset contains monthly 0.05°×0.05° (1982, 1985, 1990, 1995, and 2000) and 0.01°×0.01° (2005, 2010, 2015 and 2017) LST products in Qilian Mountain Area. The dataset was produced based on SW algorithm by AVHRR BT from thermal infrared channels (CH4: 10.5µm to 11.3µm; CH5: 11.5µm to 12.5µm) at a resolution of 0.05°, MYD21A1 LST products at a resolution of 0.01° along with some auxiliary datasets. The auxiliary datasets include IGBP land cover type, AVHRR NDVI products, Modern Era Retrospective-Analysis for Research and Applications-2 (MERRA-2) reanalysis data, ASTER GED, Lat/Lon and the Julian Day information.

2、Keywords

Theme：Soil,Precipitation,Tree rings,Precipitation amount,Evaporation,Soil moisture/Water content,Tree-ring,Atmospheric Water Vapor
Discipline：Atmosphere,Terrestrial Surface,Palaeoenvironment
Places：Northeastern part, Tibetan Plateau
Time：1580B.C.-2006A.D.

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.56MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：90.0 | - | east：96.0 |
| - | south：35.0 | - |

5、Time frame:2006-01-08 08:00:00+00:00--2007-01-07 19:59:59+00:00

6、Reference method

References to data:

WANG Junbo, SHAO Xuemei. Tree ring width and reconstructed precipitation soil water condition data series of the Northeastern Tibetan Plateau and dating data of the Delingha Area (1580B.C.-2006A.D.). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecology.tpe.9.db2018

References to articles:

Yin, Z.Y., Shao, X.M., Qin, N.S., &Liang, E.Y. (2008). Reconstruction of a 1436-year soil moisture and vegetation water use history based on tree-ring widths from Qilian junipers in northeastern Qaidam Basin, northwestern China. International Journal of Climatology, 28 (1), 37-53.

[1] Shao, XM; Huang, L; Liu, HB; Liang, EY; Fang, XQ; Wang, LL， Reconstruction of precipitation variation from tree rings in recent 1000 years in Delingha, Qinghai，SCIENCE IN CHINA SERIES D-EARTH SCIENCES, 48 (7): 939-949 JUL 2005，

Shao, X.M., Wang, S.Z., Zhu, H.F., Xu, Y., Liang, E.Y., Yin, Z.Y., Xu, X.G., &Xiao, Y.M. (2009). A 3585-year ring-width dating chronology of Qilian juniper from the northeastern Qinghai-Tibetan Plateau. Iawa Journal, 30(4), 379–394.

7、Supporting project information

8、Data resource provider

name: WANG Junbo
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences
email: wangjb@itpcas.ac.cn

name: SHAO Xuemei
unit: Institute of Geographical Sciences and Natural Resource Research, CAS
email: shaoxm@igsnrr.ac.cn