HiWATER: SoilNET soil moisture observation dataset in the middle reaches of the Heihe river basin

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Abstract
This dataset includes soil moisture and soil temperature observations of 50 SoilNET Nodes during June 2012~March 2013 (UTC+8), which located in a MODIS pixel in the observation matrix of the HiWATER artificial oasis eco-hydrology experimental area, and aim to capture the spatial-temporal variance at the ~100 m scale. Each SoilNET node observes the soil moisture and soil temperature at 4 cm, 10 cm, 20 cm and 40 cm depth using the SPADE sensor with 10 minutes interval. This dataset can be used in the estimation of surface hydrothermal variables and their validation, eco-hydrological research, irrigation management, and so on. The detail description please refers to "SoilNET_data_document.docx".

Keywords
Theme: Eco-hydrological Wireless Sensor Network, SoilNET, soil temperature, soil moisture,
Place: Heihe River Basin, flux observation matrix, the artificial oasis experimental area,
Temporal: UTC+8, 2012-06-22 to 2013-03-16, 2012,
Discipline:
Statrum
ISO 19115 Category
Category: geoscientificInformation

Detail
Project: +proj=longlat +datum=WGS84 +no_defs
Data Volume(MB): 240
Data Format: *.csv

Temporal Range
Start: 2012-06-22
End: 2013-03-16

Citation


Recommended Publications


Funding

1. National High-tech R&D Program of China (863 Program) (No: 2012AA12A305)

2. National Natural Science Foundation of China (No: 91125004)

Limitation

1. The dataset is generated from the "Heihe Watershed Allied Telemetry Experimental Research (HiWATER)". User must have a clear statement in the article of the original data source and cite the dataset and papers in the Citation section.

Online Resources

1. ftp://ftp2.westgis.ac.cn

2. http://card.westgis.ac.cn

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