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Title:

Underlying in situ river discharge observations for the China Daily River Discharge Records (CDR²)

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Description:

This repository provides the complete in situ daily river discharge observations used for the development and validation of the China Daily River Discharge Records (CDR²) dataset described in the associated ESSD manuscript. The repository contains daily discharge observations for all 310 gauging stations included in the CDR² dataset.

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File organization:

Each CSV file corresponds to one gauging station.

The filename is the gauge ID, which is identical to the gauge identifier used in the CDR² dataset.

Each CSV file contains:

Index

Sequential index of the in situ discharge observations arranged in chronological order. The index preserves the temporal order of the observations used for model development and validation but does not represent the original observation dates.

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Observed daily river discharge ($\text{m}^3 \text{s}^{-1}$)

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Data source:

The original discharge observations were obtained from the National Hydrological and Rainfall Information System, Ministry of Water Resources of China (<http://xxfb.mwr.cn/>), a platform accessible only within China.

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Relationship to the published dataset:

The reconstructed China Daily River Discharge Records (CDR²) dataset is archived as a separate Zenodo dataset and is available at: <https://doi.org/10.5281/zenodo.20152832>.

The observations provided in this repository constitute the underlying in situ river discharge data used for the development and validation of the CDR² dataset described in the associated ESSD manuscript. Together, the reconstructed CDR² dataset and the underlying observations provide the information required to support transparency and reproducibility of the published data product.

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File format:

CSV (UTF-8)

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Archive format:

ZIP (non-proprietary)

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License:

CC BY 4.0

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Citation:

If you use these data, please cite both the associated ESSD manuscript and the archived dataset:

Wang, Y., Gong, Y., Jing, Y., et al.: Extending Daily River Discharge Records Across China Using Satellite-Derived River Widths, Earth System Science Data Discussions, 2026, 1–34, <https://doi.org/10.5194/essd-2026-426>.

Wang, Y. and Li, X.: China Daily River Discharge Records (CDR²), Zenodo, <https://doi.org/10.5281/zenodo.22148376>.