

# Package ‘cder’

May 8, 2026

**Title** Interface to the California Data Exchange Center (CDEC)

**Version** 0.3-1

**Description** Connect to the California Data Exchange Center (CDEC)

Web Service <<http://cdec.water.ca.gov/>>. 'CDEC' provides a centralized database to store, process, and exchange real-time hydrologic information gathered by various cooperators throughout California. The 'CDEC' Web Service <<http://cdec.water.ca.gov/dynamicapp/wsSensorData>> provides a data download service for accessing historical records.

**License** GPL (>= 3)

**URL** <https://github.com/mkoohafkan/cder>

**BugReports** <https://github.com/mkoohafkan/cder/issues>

**Depends** R (>= 3.4)

**Imports** utils, curl (>= 4.3), glue (>= 1.3), stringr (>= 1.4), dplyr (>= 1.1), readr (>= 1.3), lubridate (>= 1.7)

**Encoding** UTF-8

**Suggests** knitr (>= 1.26), rmarkdown (>= 2.0), testthat (>= 2.3)

**VignetteBuilder** knitr

**RoxygenNote** 7.2.3

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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cdec-search	<i>CDEC Search Pages Open the CDEC station/group search page or map interface.</i>
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### **Description**

CDEC Search Pages Open the CDEC station/group search page or map interface.

### **Usage**

cdec\_search\_groups(...)

cdec\_search\_stations(...)

cdec\_map(...)

### **Arguments**

... Additional arguments to pass to browseURL.

### **Functions**

- cdec\_search\_groups(): CDEC Group search page.
- cdec\_search\_stations(): CDEC Station search page.
- cdec\_map(): CDEC Map locator page.

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cdec_data_flags	<i>CDEC Data Flag Information</i>
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### **Description**

Open the data flag listing page.

### **Usage**

cdec\_data\_flags(...)

### **Arguments**

... Additional arguments to pass to browseURL.

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cdec_meta	<i>CDEC Station Metadata</i>
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**Description**

Open the Metadata page for a station.

**Usage**

```
cdec_meta(station, ...)
```

**Arguments**

station	The three-letter station code.
...	Additional arguments to pass to browseURL.

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cdec_query	<i>Query CDEC</i>
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**Description**

Query data from the CDEC web services.

**Usage**

```
cdec_query(stations, sensors, durations, start.date, end.date, ...)
```

**Arguments**

stations	A vector of station codes.
sensors	A vector of sensor numbers.
durations	A vector of durations. Possible duration codes are "E" (event), "H" (hourly), "D" (daily), and "M" (monthly).
start.date	The start date of the query.
end.date	The end date of the query.
...	Not used.

**Details**

Note that CDEC timestamps are in Pacific Time and Daylight Savings adjustments are reflected. In R, this is equivalent to the timezone "US/Pacific".

**Value**

A tibble.

## Examples

```
if(interactive()){  
  cdec_query("NSL", 100, "E", Sys.Date() - 5, Sys.Date())  
}
```

---

cdec\_query\_group

*Query CDEC Group*

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## Description

Query group data from the CDEC web services.

## Usage

```
cdec_query_group(groups, start.date, end.date, ...)
```

## Arguments

groups	A vector of group codes.
start.date	The start date of the query.
end.date	The end date of the query.
...	Not used.

## Details

Note that CDEC timestamps are in Pacific Time and Daylight Savings adjustments are reflected. In R, this is equivalent to the timezone "US/Pacific".

## Value

A tibble.

## Examples

```
if(interactive()){  
  cdec_query_group("SR1", Sys.Date() - 5, Sys.Date())  
}
```

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cdec_sensors	<i>CDEC Sensor Information</i>
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**Description**

Open the Sensor listing page.

**Usage**

```
cdec_sensors(...)
```

**Arguments**

... Additional arguments to pass to browseURL.

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cder	<i>Interface to the California Data Exchange Center</i>
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**Description**

Access the CDEC Web Service from R.

**Package options**

cder uses the following `options()` to configure behavior:

- `cder.timeout`: The maximum time to wait for a response from the CDEC Web API.

**Author(s)**

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**See Also**

Useful links:

- <https://github.com/mkoohafkan/cder>
- Report bugs at <https://github.com/mkoohafkan/cder/issues>

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