Climate Data Online: Web Services Documentation

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Data

The data endpoint is used for actually fetching the data.

Endpoints

PATH	DESCRIPTION
`https://www.ncei.noaa.gov/cdo-web/api/v2/data?` `datasetid=YOUR_DATASETID`	Requires exactly one dataset id. Used to fetch data.

Additional Parameters

PARAMETER	EXAMPLE	DESCRIPTION
datasetid	`GSOM`	Required. Accepts a single valid dataset id. Data returned will be from the dataset specified.
datatypeid	`ACMH`	Optional. Accepts a valid data type id or a chain of data type ids separated by ampersands. Data returned will contain all of the data type(s) specified.
locationid	`FIPS:37`	Optional. Accepts a valid location id or a chain of location ids separated by ampersands. Data returned will contain data for the location(s) specified.
stationid	`GHCND:US1NCBC0005`	Optional. Accepts a valid station id or a chain of of station ids separated by ampersands. Data returned will contain data for the station(s) specified.
startdate	`1970-10-03`	Required. Accepts valid ISO formated date (YYYY-MM-DD) or date time (YYYY-MM-DDThh:mm:ss). Data returned will be after the specified date. Annual and Monthly data will be limited to a ten year range while all other data will be limted to a one year range.
enddate	`2012-09-10`	Required. Accepts valid ISO formated date (YYYY-MM-DD) or date time (YYYY-MM-DDThh:mm:ss). Data returned will be before the specified date. Annual and Monthly data will be limited to a ten year range while all other data will be limted to a one year range.
units	`metric`	Optional. Accepts the literal strings 'standard' or 'metric'. Data will be scaled and converted to the specified units. If a unit is not provided then no scaling nor conversion will take place.
sortfield	`name`	Optional. The field to sort results by. Supports `id`, `name`, `mindate`, `maxdate`, and `datacoverage` fields.
sortorder	`desc`	Optional. Which order to sort by, `asc` or `desc`. Defaults to `asc`.
limit	`42`	Optional. Defaults to 25, limits the number of results in the response. Maximum is 1000.
offset	`24`	Optional. Defaults to 0, used to offset the resultlist. The example would begin with record 24.
includemetadata	`false`	Optional. Defaults to true, used to improve response time by preventing the calculation of result metadata.

Examples

Click on the links below and a preview will display example results from
each REST query. Copy the URL listed below to use as a reference.
*Note: Assigned token is required to use these queries and *must* be in the header

[Fetch data from the GHCND dataset (Daily Summaries) for zip code 28801, May 1st of 2010](#)

```
https://www.ncei.noaa.gov/cdo-web/api/v2/data?datasetid=GHCND&locationid=ZIP:28801&startdate=2010-05-01&enddate
```

[Fetch data from the PRECIP_15 dataset (Precipitation 15 Minute) for COOP station 010008, for May of 2010 with metric units](#)

```
https://www.ncei.noaa.gov/cdo-web/api/v2/data?datasetid=PRECIP_15&stationid=COOP:010008&units=metric&startdate
```

[Fetch data from the GSOM dataset (Global Summary of the Month) for GHCND station USC00010008, for May of 2010 with standard units](#)

```
https://www.ncei.noaa.gov/cdo-web/api/v2/data?datasetid=GSOM&stationid=GHCND:USC00010008&units=standard&startda
```