# Climate Data Online: Web Services Documentation

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## Data Categories

Data Categories represent groupings of data types.

## Endpoints

| PATH | DESCRIPTION |
|---|---|
| `https://www.ncei.noaa.gov/cdo-web/api/v2/datacategories/{id}` | Used to find information about datacategory with id of {id} |
| `https://www.ncei.noaa.gov/cdo-web/api/v2/datacategories` | When used without optional parameters, fetches list of available datacategories. Use with optional parameters below to filter results |

## Additional Parameters

| PARAMETER | EXAMPLE | DESCRIPTION |
|---|---|---|
| datasetid | `GSOM` | Optional. Accepts a valid dataset id or a chain of dataset ids separated by ampersands. Data categories returned will be supported by dataset(s) specified |
| locationid | `FIPS:37` | Optional. Accepts a valid location id or a chain of location ids separated by ampersands. Data categories returned will contain data for the location(s) specified |
| stationid | `COOP:310301` | Optional. Accepts a valid station id or a chain of of station ids separated by ampersands. Data categories returned will contain data for the station(s) specified |
| startdate | `1970-10-03` | Optional. Accepts valid ISO formated date (yyyy-mm-dd). Data categories returned will have data after the specified date. Paramater can be use independently of `enddate` |
| enddate | `2012-09-10` | Optional. Accepts valid ISO formated date (yyyy-mm-dd). Data categories returned will have data before the specified date. Paramater can be use independently of `startdate` |
| 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 |

## 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 all available data categories
`https://www.ncei.noaa.gov/cdo-web/api/v2/datacategories?limit=41`

[Fetch all information about the Annual Agricultural dataset specifically](#)
```
https://www.ncei.noaa.gov/cdo-web/api/v2/datacategories/ANNAGR
```

[Fetch data categories for a given set of locations](#)
```
https://www.ncei.noaa.gov/cdo-web/api/v2/datacategories?locationid=CITY:US390029&locationid=FIPS:37
```