

Climate Data Online: Web Services Documentation

Getting Started	Datasets	Data Categories	Data Types	Location Categories	Locations	Stations	Data
---------------------------------	----------	---------------------------------	----------------------------	-------------------------------------	---------------------------	--------------------------	----------------------

Datasets

All of the CDO data are in datasets. The containing dataset must be known before attempting to access its data.

Endpoints

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

Additional Parameters

PARAMETER	EXAMPLE	DESCRIPTION
<code>datatypeid</code>	<code>ACMH</code>	Optional. Accepts a valid data type id or a chain of data type ids separated by ampersands (e.g. <code>datatypeid=TAVG&datatypeid=TOBS</code>) or a common separated list (e.g. <code>datatypeid=TAVG,TOBS</code>). Datasets returned will contain all of the data type(s) specified
<code>locationid</code>	<code>FIPS:37</code>	Optional. Accepts a valid location id or a chain of location ids separated by ampersands (e.g. <code>locationid=FIPS:37&locationid=FIPS:45</code>) or a common separated list (e.g. <code>locationid=FIPS:37,FIPS:45</code>). Datasets returned will contain data for the location(s) specified
<code>stationid</code>	<code>COOP:010957</code>	Optional. Accepts a valid station id or a chain of station ids separated by ampersands (e.g. <code>stationid=COOP:310090&stationid=COOP:310184</code>) or a common separated list (e.g. <code>stationid=COOP:310090,COOP:310184</code>). Datasets returned will contain data for the station(s) specified
<code>startdate</code>	<code>1970-10-03</code>	Optional. Accepts valid ISO formatted date (yyyy-mm-dd). Datasets returned will have data after the specified date. Paramater can be use independently of <code>enddate</code>
<code>enddate</code>	<code>2012-09-10</code>	Optional. Accepts valid ISO formatted date (yyyy-mm-dd). Datasets returned will have data before the specified date. Paramater can be use independently of <code>startdate</code>
<code>sortfield</code>	<code>name</code>	Optional. The field to sort results by. Supports <code>id</code> , <code>name</code> , <code>mindate</code> , <code>maxdate</code> , and <code>datacoverage</code> fields
<code>sortorder</code>	<code>desc</code>	Optional. Which order to sort by, <code>asc</code> or <code>desc</code> . Defaults to <code>asc</code>
<code>limit</code>	<code>42</code>	Optional. Defaults to 25, limits the number of results in the response. Maximum is 1000
<code>offset</code>	<code>24</code>	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 datasets](#)

<https://www.ncei.noaa.gov/cdo-web/api/v2/datasets>

[Fetch all information about the GSOY dataset specifically](#)

<https://www.ncei.noaa.gov/cdo-web/api/v2/datasets/GSOY>

[Fetch all available datasets with the Temperature at the time of observation \(TOBS\) data type](#)

<https://www.ncei.noaa.gov/cdo-web/api/v2/datasets?datatypeid=TOBS>

[Fetch all available datasets with data for a given set of stations](#)

<https://www.ncei.noaa.gov/cdo-web/api/v2/datasets?stationid=GOBP:210000&stationid=GOBP:210184&stationid=GOBP:210185>