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# **pywoudc Documentation**

***Release 0.1.0***

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Contents:



## 1.1 Module contents

**class** `pywoudc.WoudcClient` (`url='https://geo.woudc.org/ows'`, `timeout=30`)

Bases: `object`

WOUDC Client

**about** = `None`

The About Data Access page

**get\_contributor\_metadata** (`raw=False`)

Download WOUDC contributors metadata

**Parameters** `raw` – a boolean specifying whether to return the raw GeoJSON payload as a string (default is `False`)

**Returns** dictionary of GeoJSON payload

**get\_data** (`typename`, `**kwargs`)

Download WOUDC observations

**Parameters**

- **bbox** – a list representing a bounding box spatial filter (`minx`, `miny`, `maxx`, `maxy`)
- **temporal** – a list of two elements representing a time period (start, end) which accepts the following types:
  - `datetime.date`
  - `datetime.datetime`
  - string date (e.g. 2012-10-30)
  - string datetime (e.g. 2012-10-30 11:11:11)
- **filters** – *dict* of key-value pairs of property names and values. Constructs exclusive search

- **variables** – a list of variables to return as part of the response (default returns all)
- **sort\_property** – a string representing the property on which to sort results (default `instance_datetime`)
- **sort\_order** – a string representing sort order of response (`asc` or `desc`). Default is `asc`. Applied if `sort_property` is specified

**Returns** list of WOUDC observations GeoJSON payload

**get\_instrument\_metadata** (*raw=False*)

Download WOUDC instrument metadata

**Parameters** **raw** – a boolean specifying whether to return the raw GeoJSON payload as a string (default is `False`)

**Returns** dictionary of GeoJSON payload

**get\_station\_metadata** (*raw=False*)

Download WOUDC station metadata

**Parameters** **raw** – a boolean specifying whether to return the raw GeoJSON payload as a string (default is `False`)

**Returns** dictionary of GeoJSON payload

**maxfeatures = None**

The default limit of records to return

**outputformat = None**

The default outputformat when requesting WOUDC data

**server = None**

The main WOUDC server

**timeout = None**

Time (in seconds) after which requests should timeout

**url = None**

The URL of the WOUDC data service

`pywoudc.date2string` (*dateval, direction='begin'*)

Utility function (private)



## CHAPTER 2

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### Indices and tables

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- `genindex`
- `modindex`
- `search`



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## Python Module Index

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