

# fdnsstation(1)

## Name

fdnsstation - example client to query a remote FDSN Station web service

## Synopsis

```
fdnsstation [-vV] [--help] [--includeavailability] [--includerestricted] [--matchtimeseries] [
--printurl] [--raw] [--schema] [--validate] [-b=<startTime>] [--baseurl=<baseURL>] [--box=w/e/s/n] [
--donut=lat/lon/min/max] [-e=<endTime>] [--endafter=<endAfter>] [--endbefore=<endBefore>] [
--host=<host>] [-L=<level>] [--lat=<latitude>] [--lon=<longitude>] [--maxlat=<maxLatitude>] [
--maxlon=<maxLongitude>] [--maxradius=<maxRadius>] [--minlat=<minLatitude>] [--minlon
=<minLongitude>] [--minradius=<minRadius>] [--nodata=<nodata>] [-o=<outputFile>] [--port
=<port>] [--startafter=<startAfter>] [--startbefore=<startBefore>] [--updatedafter=<updatedAfter>]
[-c=<channel>[,<channel>...]]... [-l=<location>[,<location>...]]... [-n=<network>[,<network>...]]... [-s
=<station>[,<station>...]]...
```

## Description

example client to query a remote FDSN Station web service

Times are ISO8601 formatted strings, like yyyy-MM-ddTHH:mm:ss, and may be shortened to include only the significant fields. The remaining fields will be filled in as either zero or max value depending on the use. For example 2006-11-19 or 2006-11-19T06:34:21. The special strings now and yesterday may also be used.

[View source code here.](#)

## Options

**-b, --start, --starttime=<startTime>**

Limit to metadata epochs starting on or after the specified start time.

**--baseurl=<baseURL>**

Base URL for queries, ie everything before the '/<service>/<version>/<query>?'

**--box=w/e/s/n**

constraining box as west/east/south/north

**-c, --cha, --channel=<channel>[,<channel>...]**

Select one or more SEED channel codes. Multiple codes are comma-separated.

**--donut=*lat/lon/min/max***

constraining donut as lat/lon/minRadius/maxRadius

**-e, --end, --endtime=<*endTime*>**

Limit to metadata epochs ending on or before the specified end time.

**--endafter=<*endAfter*>**

Limit to metadata epochs ending after specified time.

**--endbefore=<*endBefore*>**

Limit to metadata epochs ending before specified time.

**--help**

display a help message

**--host=<*host*>**

host to connect to, defaults to service.iris.edu

**--includeavailability**

Specify if results should include information about time series data availability.

**--includerestricted**

Specify if results should include information for restricted stations.

**-l, --loc, --location=<*location*>[,<*location*>...]**

Select one or more SEED location identifiers. Multiple identifiers are comma-separated. As a special case — (two dashes) will be translated to a string of two space characters to match blank location IDs.

**-L, --level=<*level*>**

Specify the level of detail for the results.

**--lat, --latitude=<*latitude*>**

Specify the latitude to be used for a radius search.

**--lon, --longitude=<*longitude*>**

Specify the longitude to the used for a radius search.

**--matchtimeseries**

Limit to metadata where selection criteria matches time series data availability.

**--maxlat, --maxlatitude=<*maxLatitude*>**

Limit to stations with a latitude smaller than the specified maximum.

**--maxlon, --maxlongitude=<*maxLongitude*>**

Limit to stations with a longitude smaller than the specified maximum.

**--maxradius=<maxRadius>**

Limit results to stations within the specified maximum number of degrees from the geographic point defined by the latitude and longitude parameters.

**--minlat, --minlatitude=<minLatitude>**

Limit to stations with a latitude larger than the specified minimum.

**--minlon, --minlongitude=<minLongitude>**

Limit to stations with a longitude larger than the specified minimum.

**--minradius=<minRadius>**

Limit results to stations within the specified minimum number of degrees from the geographic point defined by the latitude and longitude parameters.

**-n, --net, --network=<network>[,<network>...]**

Select one or more network codes. Can be SEED network codes or data center defined codes. Multiple codes are comma-separated.

**--nodata=<nodata>**

nodata http return code

**-o, --output=<outputFile>**

File for outputting result

**--port=<port>**

port to connect to, defaults to 80

**--printurl**

Construct and print URL and exit

**--raw**

Output the raw data to stdout

**-s, --sta, --station=<station>[,<station>...]**

Select one or more SEED station codes. Multiple codes are comma-separated.

**--schema**

prints schema

**--startafter=<startAfter>**

Limit to metadata epochs starting after specified time.

**--startbefore=<startBefore>**

Limit to metadata epochs starting before specified time.

**--updatedafter=<updatedAfter>**

Limit to metadata updated after specified date; updates are data center specific.

**-v, --verbose**

Verbose

**-V, --version**

Print version and exit

**--validate**

Validate XML against schema

## Examples

Ask for station from CO or N4 in a box around South Carolina that are active in 2019.

```
> fdsnstation --box -83/-79/31/35 --level station -n CO,N4 -b 2019 -e 2019
CO 1987-01-01T00:00:00 South Carolina Seismic Network (SCSN)
  CO.BIRD 34.645/-80.4615 Birdtown, Kershaw, SC, USA 2010-08-25T00:00:00
  CO.C1SC 32.798/-79.959 The Citadel,Charleston,SC 2012-10-08T19:00:00
  CO.CASEE 34.993/-82.9317 Lake Jocassee, SC, USA 2009-12-07T00:00:00
  CO.CSB 32.98698/-80.07155 Charleston Southern University, Charleston, SC, USA
2009-04-13T00:00:00
  CO.HAW 33.3612/-81.6097 Hawthorne Fire Tower, SC, USA 2010-03-11T00:00:00
  CO.HODGE 34.2315/-82.2586 Hodges, SC, USA 2010-03-25T00:00:00
  CO.JSC 34.2818/-81.25966 Jenkinsville, South Carolina 2009-04-13T00:00:00
  CO.PAULI 34.82097/-81.8144 Pauline, SC, USA 2011-04-26T00:00:00
  CO.SUMMV 33.0658/-80.2738 Summerville Airport, SC, USA 2015-04-21T00:00:00
  CO.TEEBA 32.8975/-80.1911 Mateeba, Summerville SC 2018-04-25T00:00:00
N4 2013-01-01T00:00:00 Central and Eastern US Network (CEUSN)
  N4.257A 31.9746/-81.0261 Skidaway Island, Savannah, GA, USA 2014-01-21T00:00:00
  N4.X58A 34.5548/-79.3388 Rowland, NC, USA 2015-01-26T00:00:00
  N4.Y57A 34.017/-80.3915 Sumter, SC, USA 2015-01-21T00:00:00
  N4.Y58A 33.9057/-79.6665 Scranton, SC, USA 2015-01-25T00:00:00
```