fdsnstation(1)

Name

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

Synopsis

fdsnstation [**-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 outputing 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
```