Query and Download Brady's Seismic Network Waveform Data from the Northern California Earthquake Data Center

A. Query and Access Data for a Specified Time Period in SEED Format

Go to http://www.ncedc.org/

- From the "**Access Data**" menu at the top of the page, select NetDC and EVT FAST

Under "**Querying the Archives: NetDC System**"

- Select NetDC Request Form

1. List Stations and Data Channels Available for Each Event in a Specified Time Period

Under **Select request type:**

- Select option 1, "Detailed listing of available stations and channels listed by time period at the NCEDC"
- Select Time Period and Output Date Format

Under **Select SEED Network, Station, Channel, and Location codes:**

- Network = **5B** (case sensitive)
- Click "Submit request"

NCEDC creates an inventory of stations and channels and start and end times for each waveform time series within the specified time period, e.g.

```
BPB2  5B DP1 40 2011/01/02 15:31:18.0000 2011/01/02 15:31:58.0000
```

2. Download Data for Events Within the Specified Time Period

Under **Select request type:**

- Select option 3, "Create a NetDC request to retrieve waveform data"
- Select Time Period and Output Date Format

Under **Select SEED Network, Station, Channel, and Location codes:**

- Network = **5B** (case sensitive)
- Station(s): Leave blank to download data from all stations.

Or select specific stations. Brady's stations currently available at NCEDC are:

BPB2, BPB3, BPB4, BPB5, BPB6, BPB7, BPB8
BRP1, BRP2, BRP1, BRP3, BRP9

- Channel(s): Leave blank to download all channels.

Or select specific channels:

For BPB* stations, channels are DP1, DP2, DP3
For BRP* stations, channels are DPE, DPN, DPZ

- Locations: Leave blank.

Fill in name, institution, email.

- Click "Submit request"

A NETDC submission Form is displayed, listing the available data. Unwanted data can be deleted from the list.

- Click "Submit request"

NCEDC will send a notification email containing an FTP link to download the SEED waveform data.

SEED data can be converted to other formats (SAC, AH, miniSeed, etc.) using the utility *rdseed*, which can be downloaded from http://ds.iris.edu/ds/nodes/dmc/forms/rdseed/.

B. Query and Access Data for Specific Events in MiniSEED Format

Go to http://quake.geo.berkeley.edu/egs/catalog-search.html

Under the "**Input Catalog**" dropdown menu

- Select **5B – Brady's**

Under "**Output Format**"

- Select "Summary readable format"

Under "**Earthquake Parameters**" enter start and end time of the period of interest, magnitude and depth ranges, etc.

Select output mechanism.

- Click "Submit request"

An event summary for the specified period will be displayed. The last column contains event ID numbers.

To download data using the NCEDCWS eventdata utility, in your web browser enter an address like:

http://service.ncedc.org/ncedcws/eventdata/1/query?eventid=2200505&catalog=EGS

in which the "eventid" entry is an event ID from the catalog. NCEDC creates a Miniseed file containing all of the network data for the specified event for direct download. The file name is in the following form:

ncedcws-eventdata_2015-03-31T16_23_48.mseed

MiniSeed can be converted to SAC format using the utility *mseed2sac*, which can be downloaded from https://seiscode.iris.washington.edu/projects/mseed2sac/files.

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