

Quick introduction to WebDC3

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Outline

- ① General features of the software
- ② Events
- ③ Stations
- ④ Submit Request
- ⑤ Request status/Download data

Section 1

General features of the software

General overview

Information

- ca. 4700 stations
- ca. 500 events/month

Capabilities

- **Event based**
- Station based
- Timespan based
- Manage your requests

Explore a catalog of seismic events (earthquakes), or look for waveforms related to specific events. You can select events by multiple criteria, then pick from channels available at those times.

General overview

Information

- ca. 4700 stations
- ca. 500 events/month

Capabilities

- Event based
- **Station based**
- Timespan based
- Manage your requests

Explore the inventory to see what stations/streams are available and their parameters. You can select stations/streams by multiple criteria.

General overview

Information

- ca. 4700 stations
- ca. 500 events/month

Capabilities

- Event based
- Station based
- **Timespan based**
- Manage your requests

Obtain station/stream information over fixed periods of interest.

General overview

Information

- ca. 4700 stations
- ca. 500 events/month

Capabilities

- Event based
- Station based
- Timespan based
- **Manage your requests**

Consult the status of all your requests and manage them from this interface.

Section 2

Events

Selecting events

Events Controls
?

Event Information

Catalog Service:

Quick look-up of last 10 events at GFZ:

Date Interval (yyyy-mm-dd): to

Minimum Magnitude:

Depth from to km

Coordinates: (Use -ve for SW; +ve for N/E)

N

W E

S

Available catalogs today:

- ① GFZ - The GEOFON catalog - <http://geofon.gfz-potsdam.de/eqinfo>
- ② EMSC - The EMSC catalog - <http://www.emsc-csem.org/Earthquake>
- ③ USGS – The ANSS Comprehensive Catalog (ComCat) service - <http://comcat.cr.usgs.gov/earthquakes/feed/v/>

Selecting events

The screenshot shows a web interface with two main sections: 'Events Controls' and 'Event and Station Map'. The 'Events Controls' section includes 'Event Information' with buttons for 'Catalog Services', 'User Supplied', 'Upload Catalog', 'Reset', and 'Search'. The 'Event and Station Map' section shows a map of the Eastern United States with a blue location marker and a compass. A 'Catalog Input Dialog' is open, containing the following text:

Catalog Input Dialog

Use this control to upload your personal event catalog to be processed by our system. The catalog should be in CSV (comma-separated value) format and may contain as many events as you want, one per line, with the same number of columns. You must also indicate which columns contain the Latitude, Longitude, Depth and Origin Time for the event. All other columns will be ignored.

Example: 2011-03-11T05:46:23;38.23;142.53;15;Tohoku

Column Number Specification:

Time: Latitude: Longitude: Depth:

Copy and paste your catalog into the area below:
[No format specified. Press "Send" first.]

```
2011-03-11T05:46:23;38.23;142.53;15;Tohoku
```

Buttons: Send, Close

Upload your own set of events in CSV format with the following information:

- 1 Time
- 2 Latitude
- 3 Longitude
- 4 Depth

You can also upload a file!

Section 3

Stations

Selecting stations

Stations Controls ?

Networks

Year from 1980 to 2013:

Network Type:
All nets

Network Code:
All Networks
* = temporary network; + = restricted access

Stations

by Code by Region by Events

Filter stations by station code:
All Stations

Streams

by Code by Sampling

Choose the desired set of channels:
Use SHIFT and CTRL to extend the set.

HH
BH
LH
HN

Reset Search

- The start/end year is used to filter the selection as much as possible. The filter **is applied at all levels**.
- Dropdown lists are updated with every change of the other fields.
- If possible, selected values are remembered after refreshing lists.
- Stream types are sorted by importance for the selection.
- **Multiple selection of stations** is possible using the **Append** button.
- You can also upload a file with your preferred stations!

Selecting stations

Stations Controls

Networks

Year from 1980 to 2013:

Network Type:

Network Code:

* = temporary network; + = restricted access

Stations

Filter stations by:
Event Distance (0 to 180 degrees)

Event Azimuth (0 to 360 degrees)

Streams

Choose the desired set of channels:
Use SHIFT and CTRL to extend the set.

HH	<input type="checkbox"/>
BH	<input type="checkbox"/>
LH	<input type="checkbox"/>
HN	<input type="checkbox"/>

- Stations to a certain distance from an event.

Selecting stations

Stations Controls ?

Networks

Year from 1980 to 2013:

Network Type:
All nets

Network Code:
All Networks
* = temporary network; + = restricted access

Stations

by Code | by Region | by Events

Filter stations by station code:
All Stations

Streams

by Code | by Sampling

Choose the desired set of channels:
Use SHIFT and CTRL to extend the set.

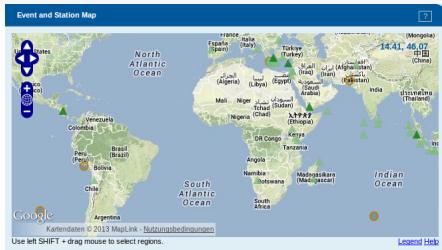
Sensor Type:
Any

Target Sampling rate: 20 sps

Reset Search

- Selection by **sensor type**
 - Sensor types can be added easily.
 - Combination of sensor types also can be easily added.
- and **sampling rate**.
 - Streams with the desired sampling rate are returned.
 - If this is not found, the ones with closest sampling rate are returned.

Working with the list



Event and Station List

Request:

Events (2 events)

<input type="checkbox"/>	Origin Time	Mag.	Lat.	Long.	Depth	Region
<input checked="" type="checkbox"/>	2013-10-16T10:31:00	6.8	-6.50	154.90	48.0	Solomon Islands
<input checked="" type="checkbox"/>	2013-10-15T00:12:35	7.1	9.85	124.08	24.0	Mindanao, Philippines

Stations (5 stations)

<input type="checkbox"/>	Network	Station	Lat.	Long.	O/R	Streams
<input checked="" type="checkbox"/>	GE	APE	37.07	25.53		.BHE, .BHN, .BHZ
<input checked="" type="checkbox"/>	GE	BKNI	0.33	101.04		.BHE, .BHN, .BHZ
<input checked="" type="checkbox"/>	GE	BOAB	12.45	-85.67		.BHE, .BHN, .BHZ
<input checked="" type="checkbox"/>	GE	CSS	34.96	33.33		.BHE, .BHN, .BHZ
<input checked="" type="checkbox"/>	GE	DAMY	14.57	44.39		.BHE, .BHN, .BHZ

Filters

- Compile the events and stations/streams to calculate the time windows.
- Allows to further filter the selection with the checkboxes and the **Freeze** button.
- It can be sorted by many columns for easy manipulation of the list.

Working with the list

Event and Station List ?

Request: Freeze Delete Stations Delete Events

Events (-)
No Events loaded

Stations (75 stations)

Location Code	Sampling Code	Instrument Code	Orientation Code	Close
<input checked="" type="checkbox"/> - <input checked="" type="checkbox"/> 00 <input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> L	<input checked="" type="checkbox"/> H	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> E <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> Z	Filter
<input checked="" type="checkbox"/> GE	APE	37.07	25.53	.BHE,.BHN,.BHZ .LHE,.LHN,.LHZ
<input checked="" type="checkbox"/> GE	BKB	-1.11	116.90	.BHE,.BHN,.BHZ .LHE,.LHN,.LHZ
<input checked="" type="checkbox"/> GE	BKNI	0.33	101.04	.BHE,.BHN,.BHZ .LHE,.LHN,.LHZ
<input checked="" type="checkbox"/> GE	BNDI	-4.52	129.90	.BHE,.BHN,.BHZ .LHE,.LHN,.LHZ RHF RHN RHZ

- The **Filter** button gives more fine-grain options to filter the stations list.
- Remember to click on **Filter** again after modifying the options.

Section 4

Submit Request

Time window definition

Make Request ?

Time Window selection:

Relative Mode Absolute Mode

Use time windows relative to events, by phase and onset time.

Start (minutes before)

-

End (minutes after)

+

Request Information:

Request type:

Waveform (Mini-SEED)
 Waveform (Full SEED)
 Metadata (Dataless SEED)
 Metadata (Inventory XML)

Use compression?
 Yes No

Your e-mail address:

Remember me?

- Define the time window by means of the arrival of a certain phase (P or S) w.r.t. the selected events.
- At least one event must be selected in the list.

Time window definition

Make Request ?

Time Window selection:

Use an absolute time window.

Start	End
<input type="text" value="2013-10-18"/>	<input type="text" value="2013-10-18"/>
<input type="text" value="00:00:00"/>	<input type="text" value="23:59:59"/>
<input type="text"/>	<input type="text"/>

Request Information:

Request type:

Waveform (Mini-SEED)
 Waveform (Full SEED)
 Metadata (Dataless SEED)
 Metadata (Inventory XML)

Use compression?
 Yes No

Your e-mail address:

Remember me?

- Define the time window with absolute time.
- Usually this is the mode used when no events are selected.

Types of request

Make Request ?

Time Window selection:

Relative Mode Absolute Mode

Use an absolute time window.

Start	End
<input type="text" value="2013-10-18"/>	<input type="text" value="2013-10-18"/>
<input type="text" value="00:00:00"/>	<input type="text" value="23:59:59"/>

Request Information:

Request type:

Waveform (Mini-SEED)
 Waveform (Full SEED)
 Metadata (Dataless SEED)
 Metadata (Inventory XML)

Use compression?
 Yes No

Your e-mail address:

Remember me?

- Waveforms
 - Mini-SEED
 - Full-SEED
- Metadata
 - Dataless SEED
 - Inventory XML

Review a request

Review of Package 1382098837032

Network	Station	Time Windows	Stream Selection
<input checked="" type="checkbox"/>	APE	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<div style="display: flex; align-items: center;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;"> BHN LH </div> <div style="margin-right: 5px;">All</div> <div style="margin-right: 5px;">None</div> <div style="margin-right: 5px;">Vertical</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">All</div> <div style="margin-right: 5px;">None</div> <div>Horizontal</div> </div>
<input checked="" type="checkbox"/>	BKB	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	BKNI	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	BNDI	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	BOAB	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	CISI	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	CSS	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ <input type="checkbox"/> LHE <input type="checkbox"/> LHN <input type="checkbox"/> LHZ
<input checked="" type="checkbox"/>	DAG	<input checked="" type="checkbox"/> 2013-10-18T00:00:00.0000Z - 2013-10-18T23:59:59.0000Z	<input type="checkbox"/> BHE <input type="checkbox"/> BHN <input checked="" type="checkbox"/> BHZ

Section 5

Request status/Download data

Request status

Recent Requests

Delete requests

Package 1382098837032: 1 request (GFZ), click to open status popup **[+]**

Package 1382098837032

GEOFON Data center

Request ID: 113484908, **Type:** INVENTORY, **Encrypted:** No, **Args:** instruments=true compression=bzip2
Description: Package 1382098837032
Status: READY, **Size:** 17965, **Info:**

Download Volume

Volume ID: inventory, **Status:** OK, **Encrypted:** No, **Size:** 17965, **Info:**
[+] 480 lines in this volume

Status of an individual request.

Request status

Recent Requests

Delete requests

Package 1382098837032: 1 request (GFZ), click to open status popup **[+]**

Manage Requests

Your email address:

Remember me?

GEOFON Data center

Request ID: 113484908, **Type:** INVENTORY, **Encrypted:** No, **Args:** instruments=true compression=bzip2
Description: Package 1382098837032
Status: PROCESSING, **Size:** 0, **Info:**

Volume ID: inventory, **Status:** PROCESSING, **Encrypted:** No, **Size:** 0, **Info:**
[+] 183 lines in this volume

Volume ID: UNSET, **Status:** UNSET, **Encrypted:** No, **Size:** 0, **Info:**
[+] 297 lines in this volume

Status of available requests for my userID in all EIDA datacenters.

Request status

Recent Requests

?

Delete requests

Package 1382098837032: 1 request (GFZ), click to open status popup **[+]**

Manage Requests

?

Your email address:

Remember me?

GEOFON Data center

Request ID: 113484908, **Type:** INVENTORY, **Encrypted:** No, **Args:** instruments=true compression=bzip2
Description: Package 1382098837032
Status: READY, **Size:** 17965, **Info:**

Download Volume
Volume ID: inventory, **Status:** OK, **Encrypted:** No, **Size:** 17965, **Info:**
[+] 480 lines in this volume

Status of available requests for my userID in all EIDA datacenters.

Thanks a lot for your attention!