SeisFinder

17 Feb 2017

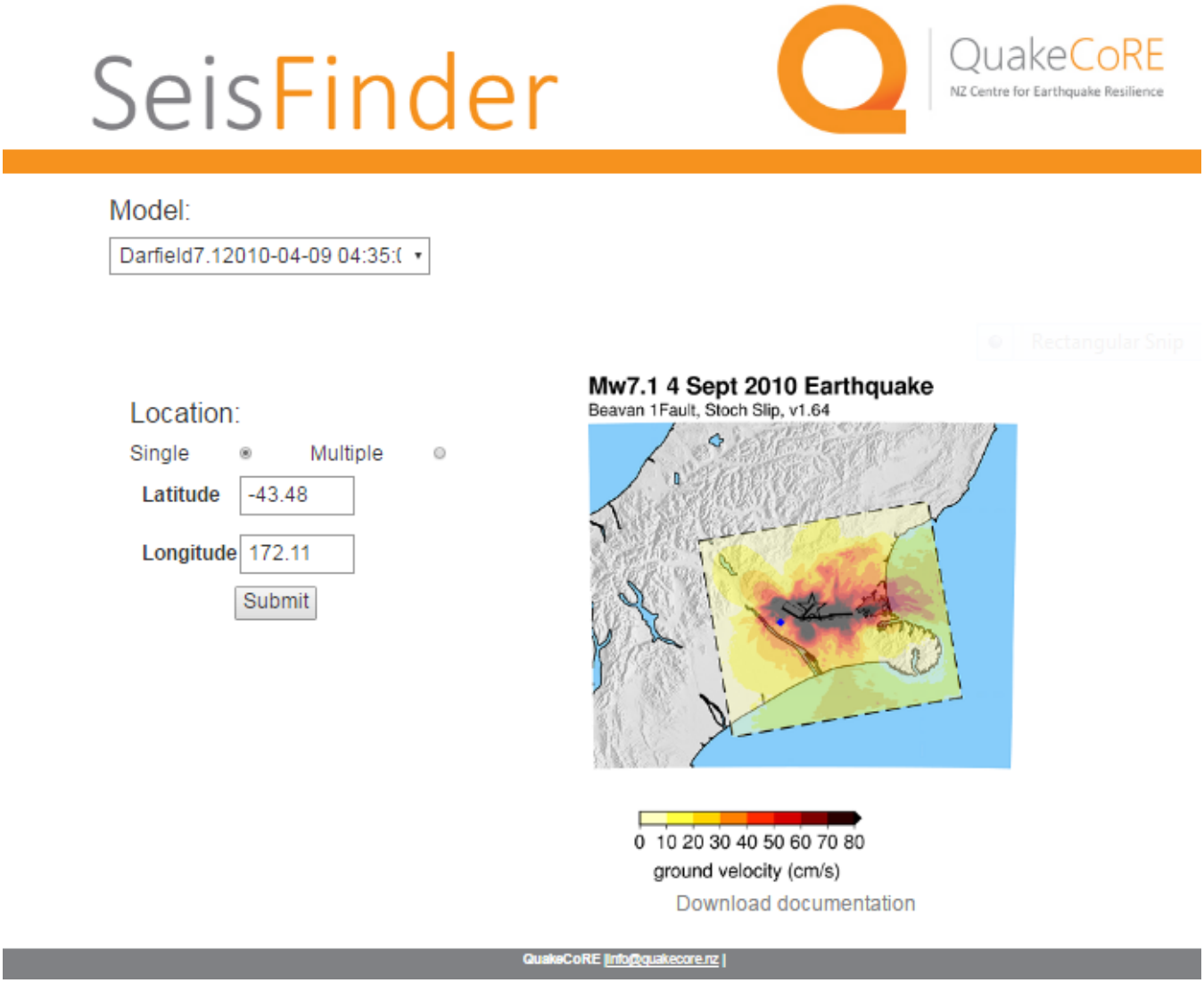
Update on SeisFinder Implementation:

Domain is represented in a rectangle in google maps. The user will be able to see whether the input location is within the domain and also the distance between his input and the actual station. In the map, user inputs are represented in blue markers and the station locations are represented in red markers.

Screenshots

Single location

Input



Output

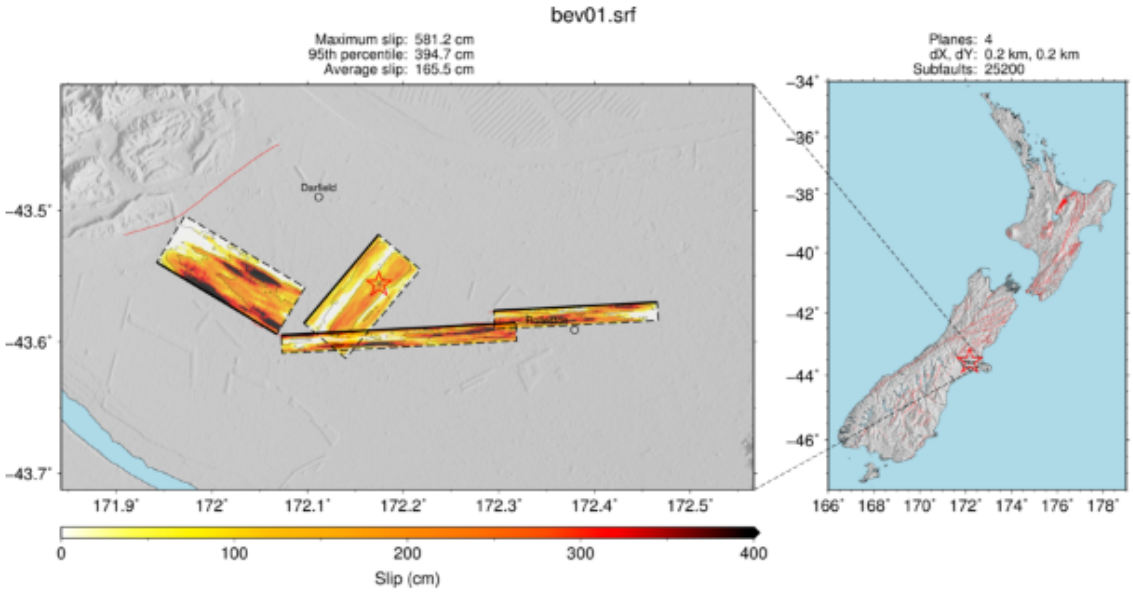
SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Event : Darfield 7.1 04/09/2010 4:35 a.m.

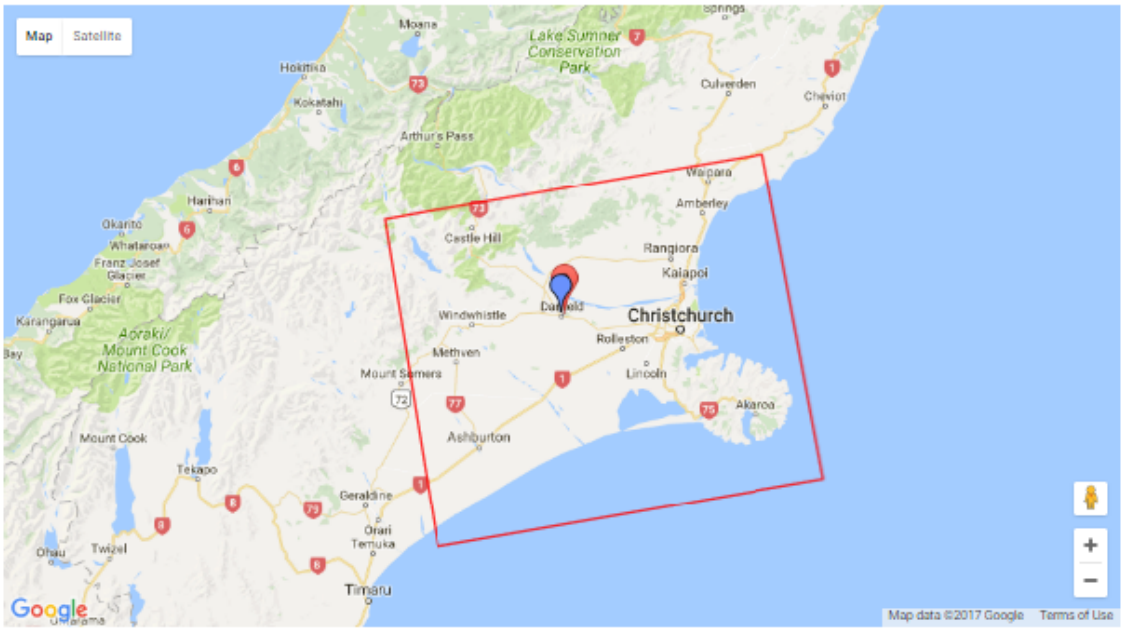
Rupture Model:bev01

Dt	R_type
0.005	4



Velocity Model: Rapid_Model1.65_NZBULLDOZED0.1

Magnitude	Latitude	Longitude	Rotation	Min s-wave	Gridspace	X_length	Y_length	Z_top	Z_bottom
7.1	-43.6	172.3	-10.0	0.5	0.1	152.0	152.0	33.0	0.0



User Input (lat,lng)	Station Code	Station Location (lat,lng)	Distance (metres)	Download Data

-43.48,172.11	016207E	-43.4785,172.1222	1001.00350749	link

Sample code

How to use

Multiple location

Input

SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Model:

Darfield7.12010-04-09 04:35:(

Location:

Single ○ Multiple ◉

Select a file to upload:

Choose File samp.csv

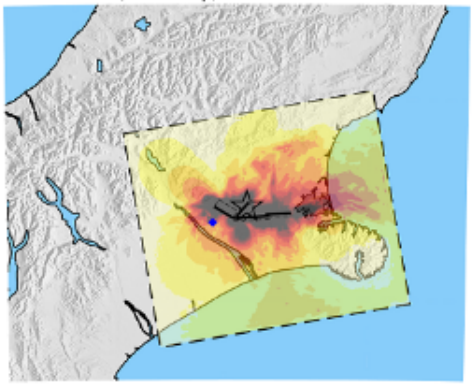
Submit

For multiple locations, please upload a csv file with latitudes and longitudes, each pair in a line with comma separation. A sample content of a csv file is shown below.

-42.52,172.82
-44.39,171.25
-43.58,172.75

Mw7.1 4 Sept 2010 Earthquake

Beavan 1Fault, Stoch Slip, v1.64



0 10 20 30 40 50 60 70 80

ground velocity (cm/s)

Download documentation

Output

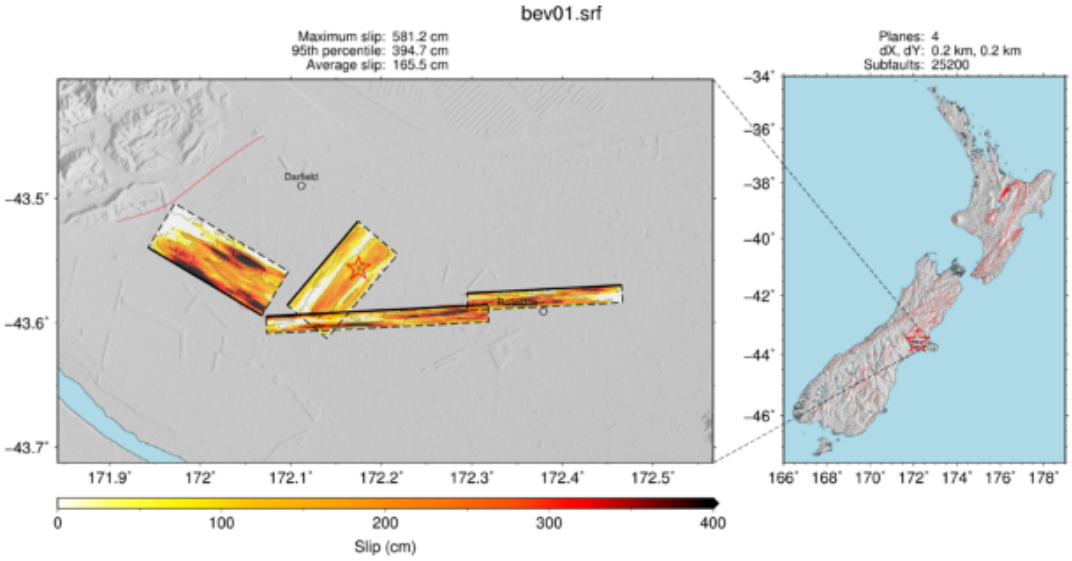
SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Event : Darfield 7.1 04/09/2010 4:35 a.m.

Rupture Model:bev01

Dt	R_type
0.005	4



Velocity Model: Rapid_Model1.65_NZBULLDOZED0.1

Magnitude	Latitude	Longitude	Rotation	Min s-wave	Gridspace	X_length	Y_length	Z_top	Z_bottom
7.1	-43.6	172.3	-10.0	0.5	0.1	152.0	152.0	33.0	0.0

User Input (lat,lng)	Station Code	Station Location (lat,lng)	Distance (metres)	Download Data
-42.99,171.82	010C8E0	-43.1104,171.8596	13759.3057531	link
-43.25,172.25	01B7772	-43.2445,172.2415	921.89871229	link

-43.58,172.75	0287030	-43.5798,172.7511	91.58353491	link
-43.00,172.99	033E14A	-43.0011,172.9818	679.70535737	link

Sample code

How to use

08 Feb 2017

Update on SeisFinder Implementation:

1. Input options
    a. multiple inputs by uploading a file (done)
    b. input though google maps (In current design,input location can be viewed/located in google maps, but the input is not through google maps by clicking)
2. Add feature for below surface ground motion simulation (does not support this feature yet)
3. Add feature to show slip model of fault as image (done)

SeisFinder currently supports both single and multiple location inputs.

- It can accept single input (latitude,longitude) and output a data file for download in zip format.
- It can also take multiple inputs (uploaded in a CSV file) and output data files for download in zip format.
- It can also show slip model of fault as image along with rupture and velocity model information.

Screenshots

Single location

Input

SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Model:

Darfield7.12010-04-09 04:35:0(

Location:

Single ◉ Multiple ○

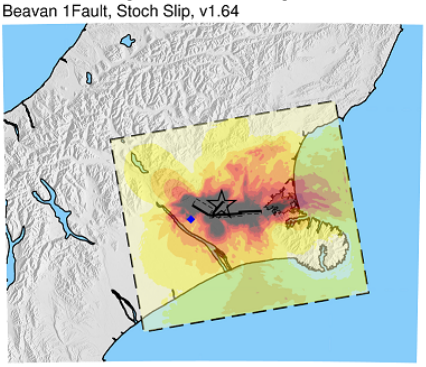
Latitude: -43.4832

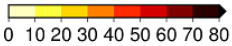
Longitude 172.50

Submit

Mw7.1 4 Sept 2010 Earthquake

Beavan 1Fault, Stoch Slip, v1.64





ground velocity (cm/s)

Download documentation

Output

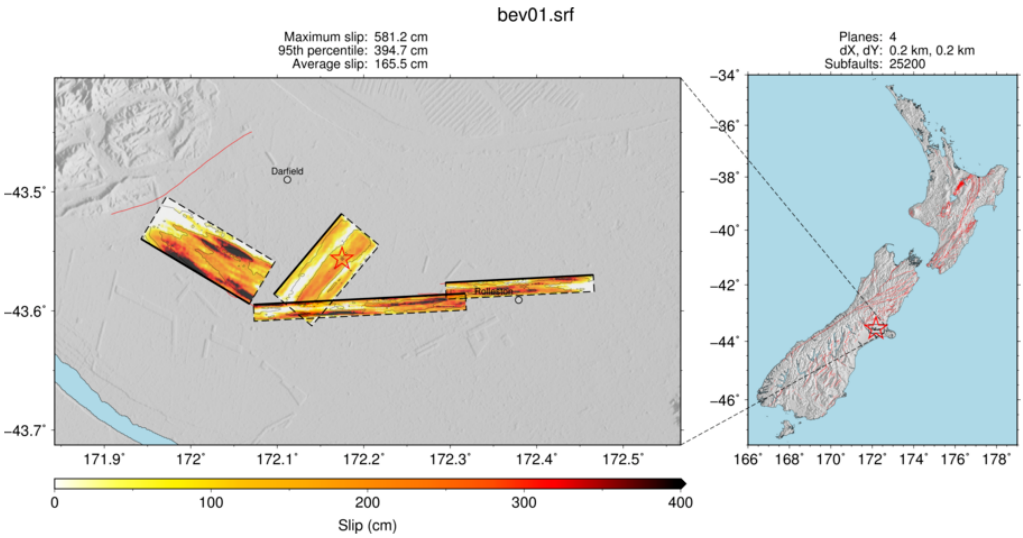
SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Event : Darfield 7.1 04/09/2010 4:35 a.m.

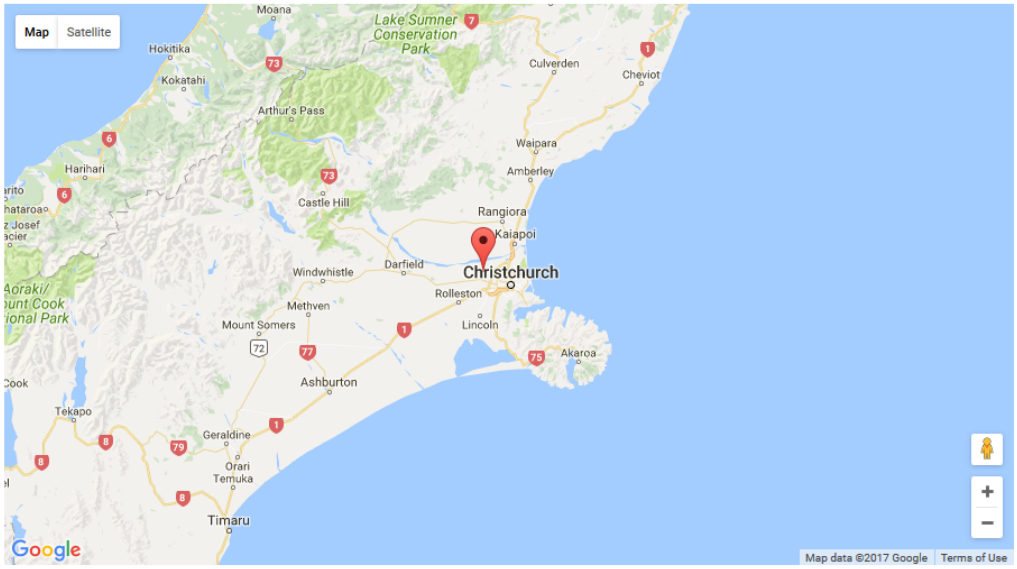
Rupture Model:bev01

Dt	R_type
0.025	4



Velocity Model: Rapid_Model1.65_NZBULLDOZED0.1

Magnitude	Latitude	Longitude	Rotation	Min s-wave	Gridspace	X_length	Y_length	Z_top	Z_bottom
7.1	-43.6	172.3	-10.0	0.5	0.1	152.0	152.0	33.0	0.0



User Input (lat,lng)	Station Code	Station Location (lat,lng)	Distance (metres)	Download Data
-43.4832,172.50	021923D	-43.4847,172.5008	178.77860426	link

Multiple locations

Input

SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Model:

Darfield7.12010-04-09 04:35:0(

Location:

Single ○ Multiple ◉

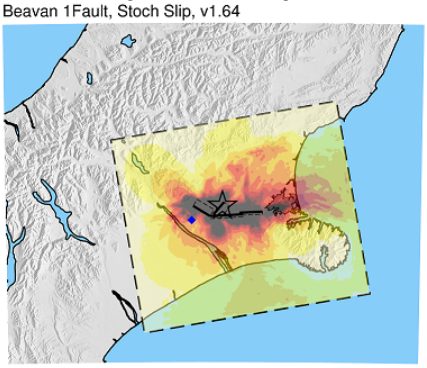
Select a file to upload:

Browse...

Submit

For multiple locations, please upload a csv file with latitudes and longitudes, each pair in a line with comma separation. A sample content of a csv file is shown below.
-42.52,172.82
-44.39,171.25
-43.58,172.75

Mw7.1 4 Sept 2010 Earthquake
Beavan 1Fault, Stoch Slip, v1.64



0 10 20 30 40 50 60 70 80
ground velocity (cm/s)

Download documentation

QuakeCoRE | info@quakecore.nz |

Output

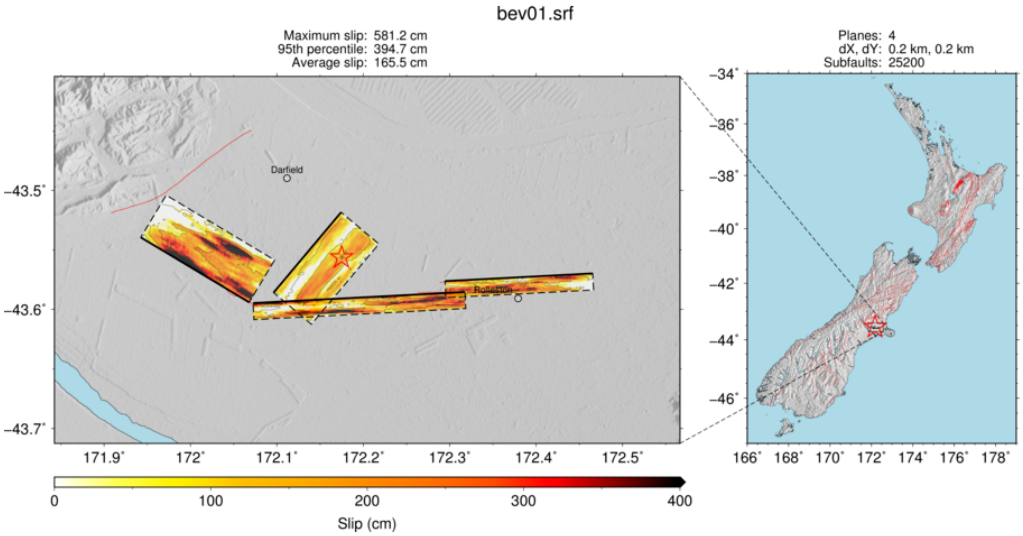
SeisFinder

QuakeCoRE
NZ Centre for Earthquake Resilience

Event : Darfield 7.1 04/09/2010 4:35 a.m.

Rupture Model:bev01

Dt	R_type
0.025	4



Velocity Model: Rapid_Model1.65_NZBULLDOZED0.1

Magnitude	Latitude	Longitude	Rotation	Min s-wave	Gridspace	X_length	Y_length	Z_top	Z_bottom
7.1	-43.6	172.3	-10.0	0.5	0.1	152.0	152.0	33.0	0.0

User Input (lat,lng)	Station Code	Station Location (lat,lng)	Distance (metres)	Download Data
-43.56,171.90	00E7F6D	-43.5622,171.8907	790.15083895	link
-42.52,172.82	0325AA0	-42.9722,172.9245	50957.3250009	link
-44.39,171.25	0000127	-44.2214,171.5651	31355.1080602	link
-43.58,172.75	0287030	-43.5708,172.7511	91.58353491	link

10 Oct 2016

SeisFinder currently accepts single input (latitude,longitude) and outputs a zip file (for download).

Further we will add the following features:

1. Input options
    a. multiple inputs by uploading a file
    b. input though google maps
2. Add feature for below surface ground motion simulation
3. Add feature to show slip model of fault as image