

Online Course Module Using the NEES@UCSB Facilities

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NEES



PURDUE UNIVERSITY
Discovery Park

Currently the module is being tested at
UCLA

CEE125 Professor Robert Nigbor
“Fundamentals of Earthquake Engineering”



Students will login to the NEES@UCSB website, use the telepresence at GVDA and run the shaker remotely as part of a homework assignment

- Login to a (nonpublic) web page with username and password
- Select shaker input function
- Select output channels
- Run the shaker
- Save data to a webpage that also requires a password



[Home](#) [Data Portal](#) [Sites](#) [Equipment](#) [Outreach](#) [Partners](#) [Contact Us](#)

Overview

Waveform

Channels

Run

Results

Email Address

Authorization key code

Login

Access to this field-site shaker is restricted.
Authorized users can get an access code from the nees@ucsb staff.
Please contact shaker@nees.ucsb.edu for further assistance.

Login with Password

Overview

Waveform

Channels

Run

Results

- . Mouse over waveform categories below to see available drive functions
- . As you mouse over the options the image below will give you waveform details
- . Click the element you want select as the shaker drive signal (*click again to unselect*)

Sine

Sweep

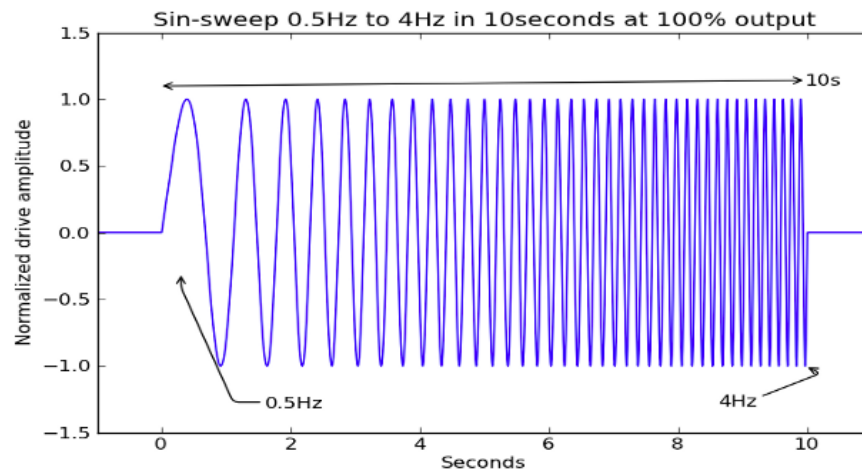
Other

0.5 to 4Hz sine, 100%, 10s

2 to 8Hz sine, 50%, 15s

When you have selected a waveform, PRESS to move on

Shaker-waveform Preview Window



Select Input Function



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[Sites](#)

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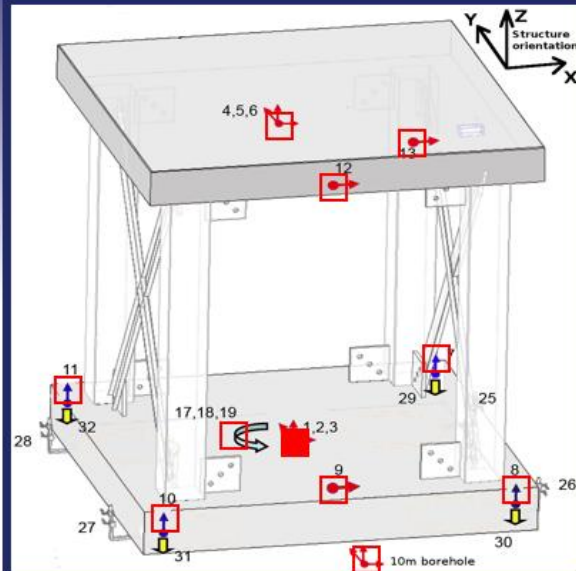
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Bottom-Slab TriAx Accelerometer



This is an Applied MEMS (now owned by Colibrys) SF-3000L tri-axial accelerometer mounted in the center of the bottom-slab.

Nominal Specification:

- . 1.2V/g
- . +/- 3g range
- . DC to 1000Hz bandwidth
- . Noise-level 300ng(rms)/Hz

Site Recording details:

This sensor is on the TOP of the Bottom slab

Datalogger: Kinematics 36-channel Granite

Sample-rate: 200sps

Orientation: Structure Z,Y,X

Channel Naming:

SFSI_HNX_00

SFSI_HNY_00

SFSI_HNZ_00

Selected Channels

Bottom-slab tri-ax accelerometer

When you have selected all your channels, PRESS here to continue

Select Output Channels



nees@UCSB

The University of California at Santa Barbara
The George E. Brown Jr. Network for Earthquake Engineering



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[Data Portal](#)

[Sites](#)

[Equipment](#)

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[Contact Us](#)

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Channels

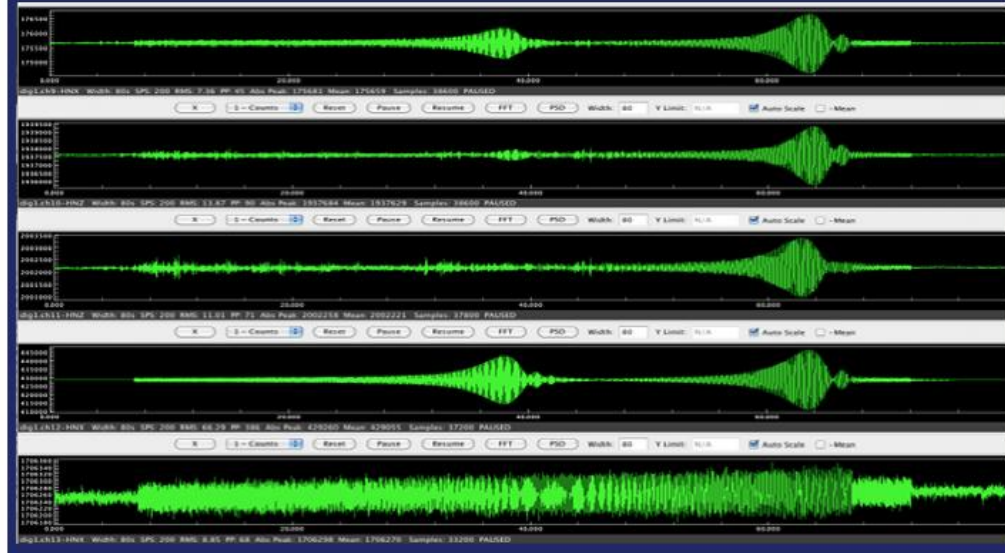
Run

Results



[image to HOME](#)
[image to SHAKER](#)

RUN test



Run Shaker Remotely

Overview

Waveform

Channels

Run

Results

Please select the data formats you would like in your download bundle...

ASCII data ☒

Miniseed ☐

SAC ☐

[Download ZIPfile now](#)

This results file will be available for download for 2-weeks at:

http://nees.ucsb.edu/outreach/downloads/YOUREmail/seesionID/shake_10Hz_2012178.zip

Please contact shaker@nees.ucsb.edu for further assistance.

Download the Data