Online Course Module Using the NEES@UCSB Facilities

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NEES

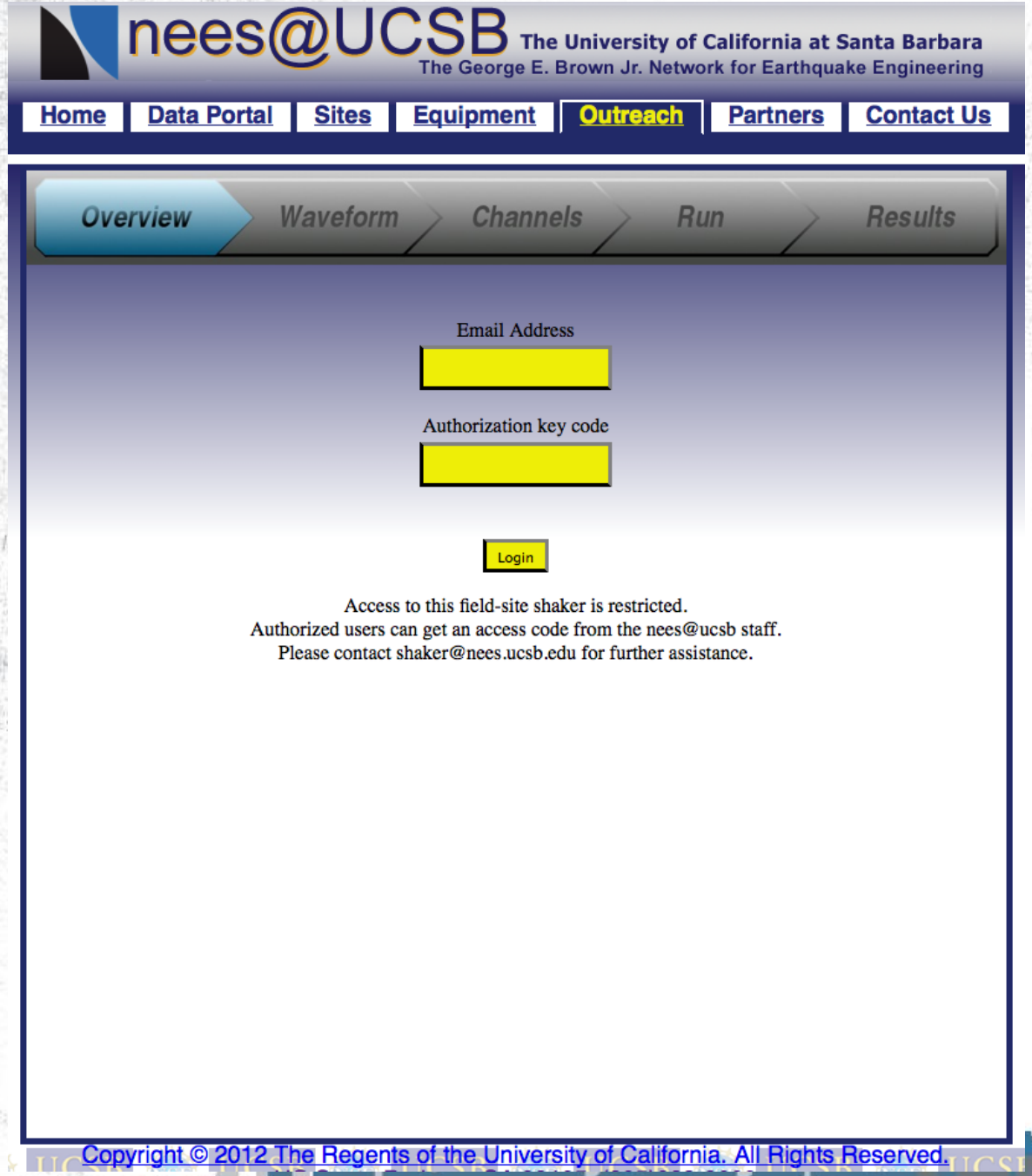
PURDUE UNIVERSITY Discovery Park

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



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Login with Password

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

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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)*

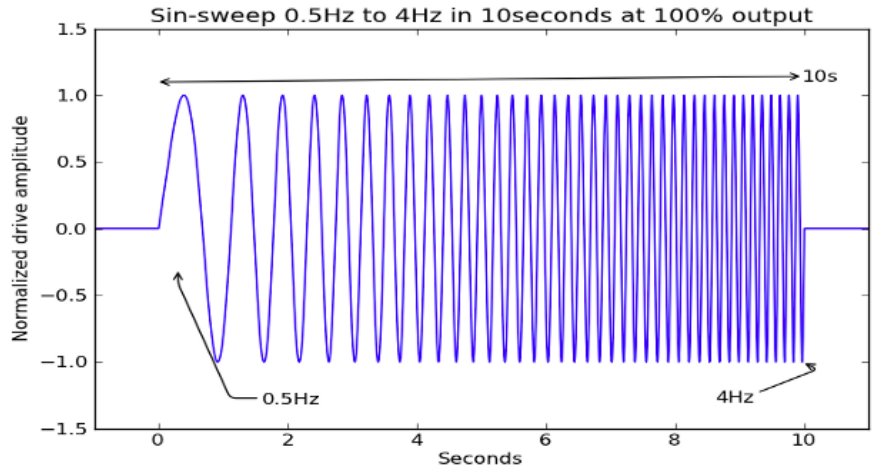
Sine | Sweep | Other

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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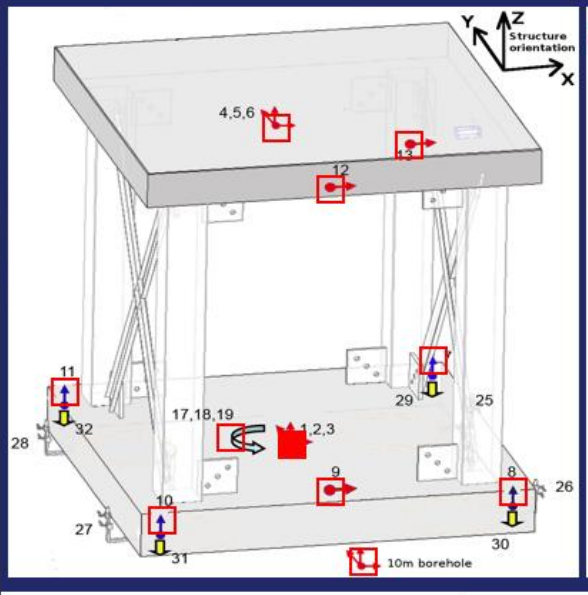


Bottom-Slab TriAx Accelerometer

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

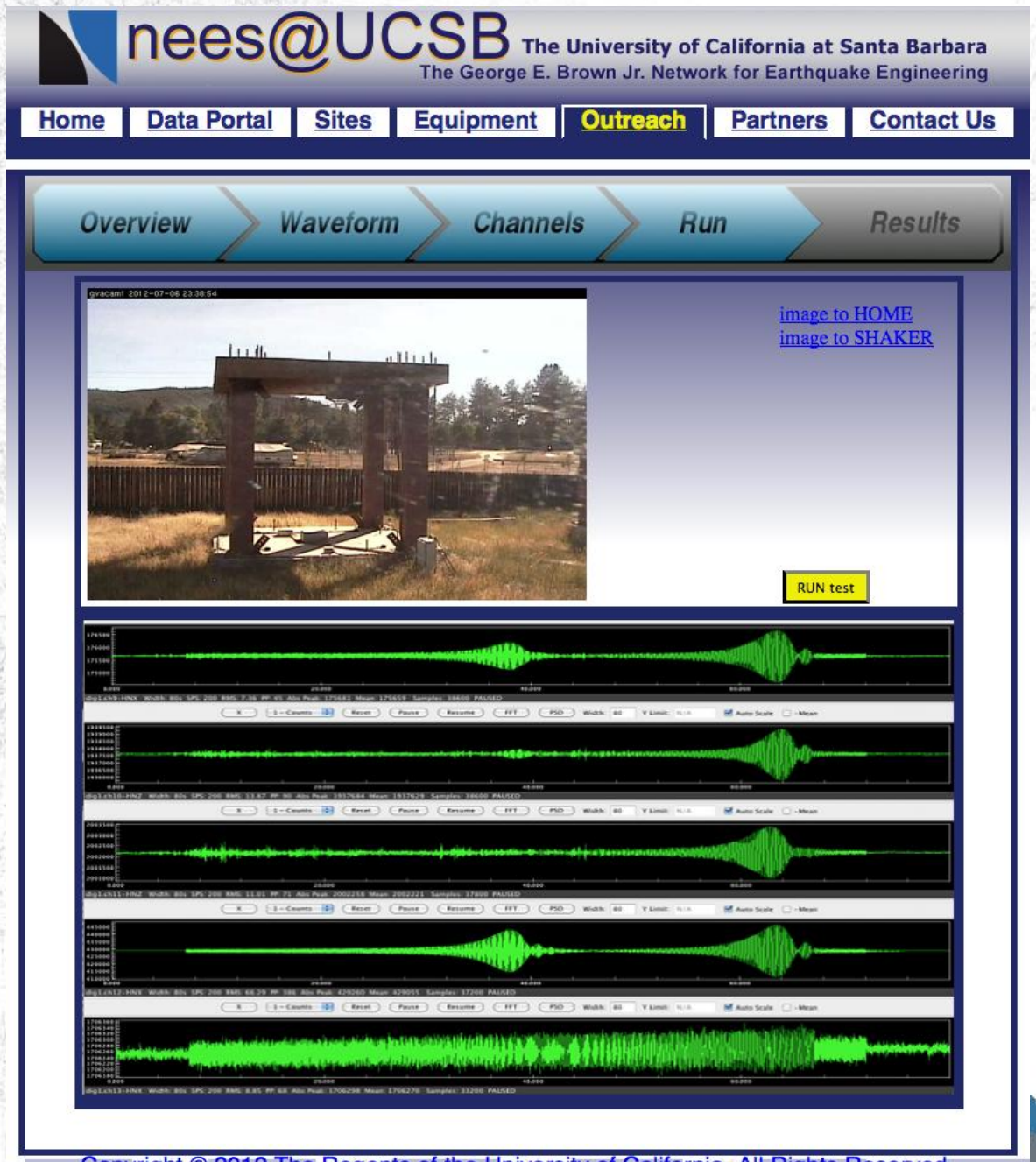
Datalogger: Kinemetrics 36-channel Granite
Sample-rate: 200sps
Orientation: Structure Z,Y,X

Channel Naming:
SFSI_HNX_00
SFSI_HNY_00
SFSI_HNZ_00

Selected Channels
Bottom-slab tri-ax acceleromter

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

Select Output Channels



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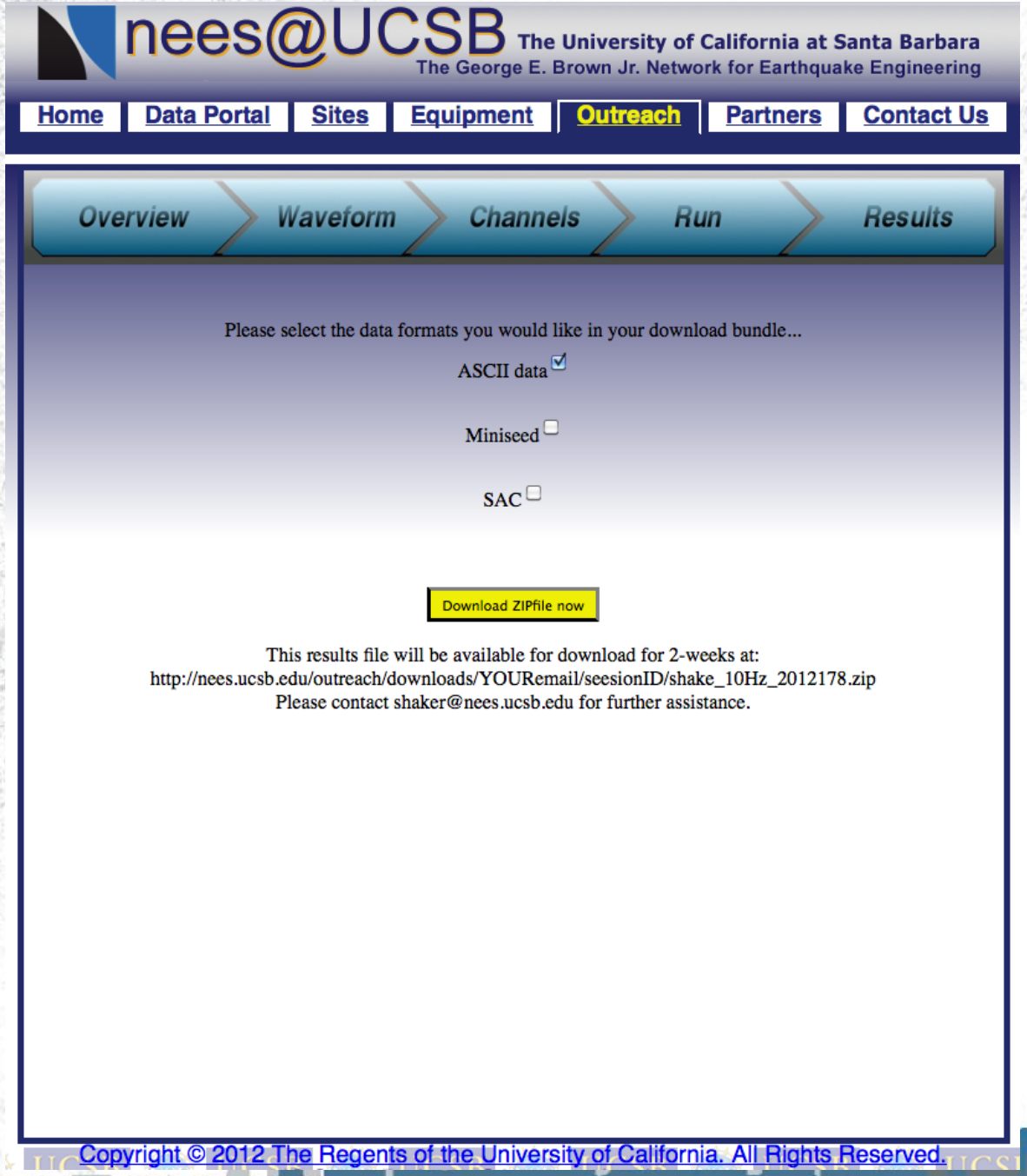
Run Shaker Remotely



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Download the Data