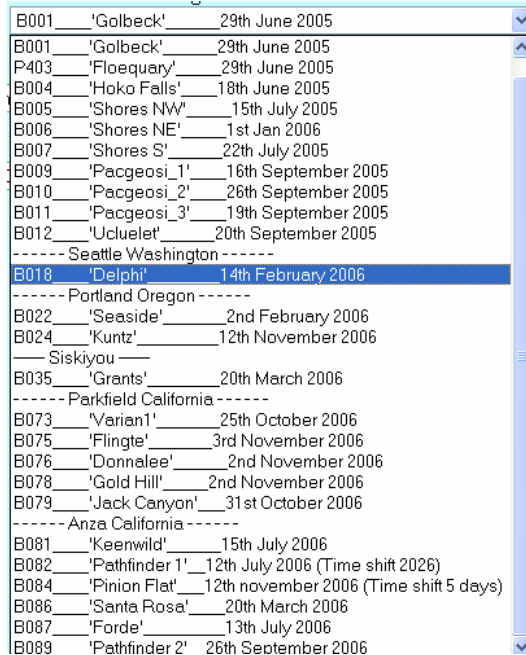


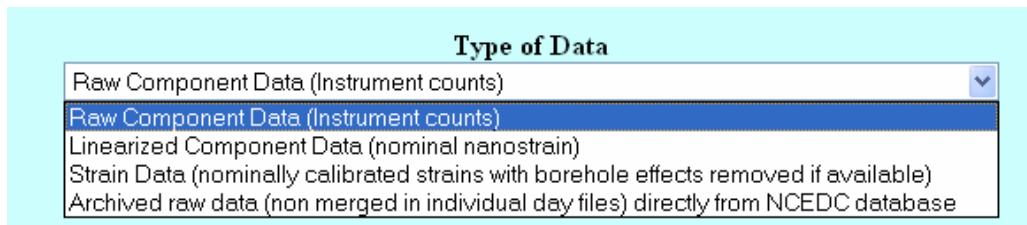
GTSM Downloads Page Long Period Data

http://www.gtsmtechnologies.com/NEHRP/strain_download/unavco/unavco.html

The purpose of the download pages are to allow quick and easy retrieval of data, in multiple formats allowing quick and easy plotting or processing.



Sites appear in a drop down list. The sites list is updated once a month with new stations as they become available.



“Raw Component Data”

This selection will provide data for the selected period available as a single bottle or text file, with or without timestamps.

“Linearized Component Data”

As above, however linearized and units are no longer ‘counts’ but nanostrain.

“Strain Data”

Areal, Gamma1 and Gamma2 strains, with borehole models applied where available

“Archived Raw data”

Selected Date range is extracted from the NCEDC archives and presented into a single Zip file. This data is untouched by GTSM Technologies and must be merged. Raw archive contains day data, environmentals, electronic gain and DC calibrations.

File Format

Text Output, Single file per available channel, zipped or non-zipped. ▼

Text Output, Single file per available channel, zipped or non-zipped.

Raw Bottle Form (for use with GTSM Technologies WinXQP display software)

Text file NOT to include timestamps

The file format only works for “Raw Component Data”, Linearized Component Data” and “Strain Data”, it is irrelevant for “Archived Raw data”.

Text Output produces a standard text file with single data values on a line. Depending on the Timestamp selection options, the file may contain time markers for each sample. Timestamps are in the form:

YYYYDDDHHMMSS

Enter Time Period for data

From

To

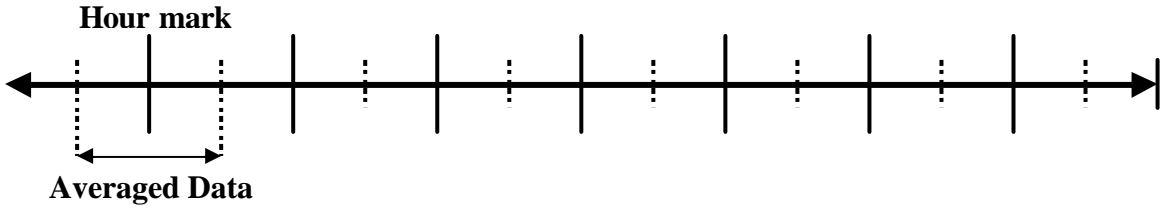
Select the required start and finish dates from the drop down boxes. When choosing Raw data, Linearized data and Strain data, leaving the “To” boxes will produce output to the end of the available record. However the “To” box must be populated for Archived Raw.

Sampling Frequency

▼

Sampling Frequency is available for people who wish to Average the data. Averages available include 1 Hour and 1 Day averages. Again, averages do not work with “Archived Raw Data”.

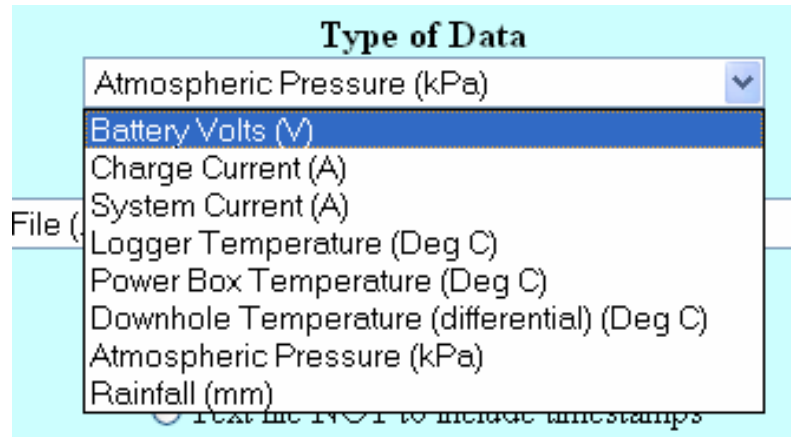
The averages are centered on the hour or day, depending on selection, and are calculated as follows, using equal data above and below the time marker:



GTSM Downloads Page System Diagnostics

http://www.gtsmtechnologies.com/NEHRP/strain_download/unavco/diagnosticsPBO.html

The Diagnostics page offers the same options as the Raw Long Period Data download page. Select the desired station, and then the type of data. Remember, the raw diagnostics data is included in the “Archived Raw Data” from the main downloads page.

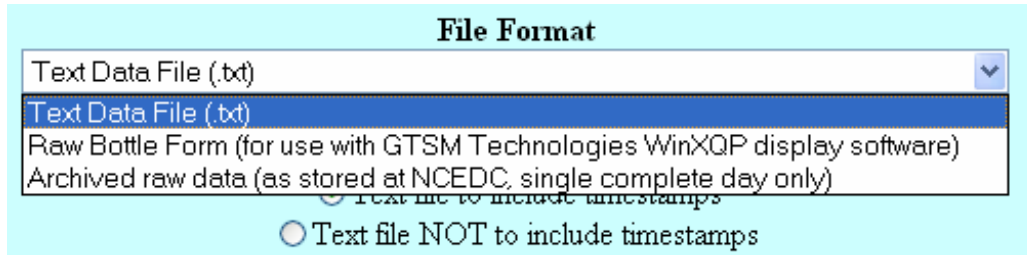


Data frequency is 30 min, however full day averaging is available.

GTSM Downloads High Frequency Data

http://www.gtsmtechnologies.com/NEHRP/strain_download/unavco/highfrequencyPBO.html

The high frequency downloads page allows the download of 20Hz and 1Hz raw data. All data from this page is obtained directly out of the NCEDC raw archives, processed and then made available for download. Since processing is done live, please have patience when making a selection.



File Format

Text Data File (.txt) ▼

Text Data File (.txt)

Raw Bottle Form (for use with GTSM Technologies WinXQP display software)

Archived raw data (as stored at NCEDC, single complete day only)

Text file to include timestamps

Text file NOT to include timestamps

As before, “Text” will produce textual fields containing the data, with or without timestamps depending on the selected options. “Raw” bottle form will produce a single bottle for the time specified. “Archived Raw” will provide a full day (single tgz file) which is how the data is stored on the NCEDC archive. The “tgz” can be extracted into a full day of 20hz “tar” files.

If selecting, “Text” or “Raw”, make the selection for the Day required. Then provide a start time, and a number of additional hours. If no selection is made, defaults are a full day of 1Hz data and a single hour of 20Hz data.

No averaging is provided here, since the 1Hz is actually a true average of the 20Hz data.

20Hz downloads from the NCEDC database are over 6mb, each day needs to be processed to return the requested data, so processing time may be up to a couple of mins. Usually around 30 seconds however.