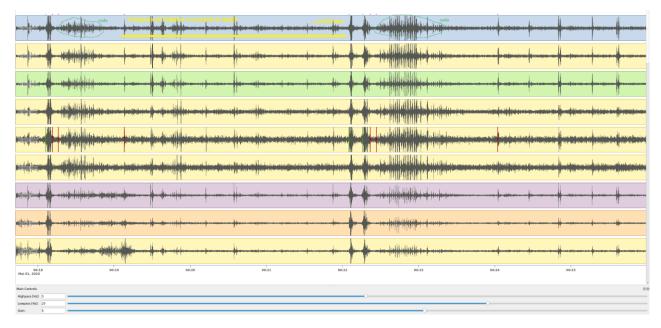# How to pick eruptive phases of Strokkur

- Install Pyrocko: https://pyrocko.org/
- Download seismic data: https://seismic-archive.geo.uni-potsdam.de/
- Open terminal
- Start snuffler like this: "snuffler path/to/seismic/data/"
- Set highpass filter to 5 Hz, lowpass to 30 Hz, gain to 5
- Zoom in as described here: https://pyrocko.org/docs/current/apps/snuffler/tutorial.html
- Right click, set visible time window length to 'long'
- You are given a list of green markers. These mark all eruptions on this day (ca. 420)
- Left click three times to set an additional marker (see example below)
  - **shortly after** each eruption ends
  - **shortly before** the first weak peak in the eruption coda
  - **shortly before** the first peak in phase 4 (this is the first peak after the eruption coda ended)

- If you click once on 1 marker you can move it forward/ backwards with the right/left arrow, delete marker with backspace but be sure that not all markers are selected. :)
- export markers: right click, click "save marker file", select filename of the file you want to save to

  Another Snuffler Manual: https://pyrocko.org/docs/current/apps/snuffler/manual.html

Checklist to help you find the eruption coda:

- The eruption coda starts 5 to 10 seconds after the last eruption.
- The peaks in the coda are regularly at a spacing of 1.5 to 1.7 s. The first peak is usually weak.
- The eruption coda is present for about 1 minute after the eruption for single eruptions and increases up to 3 minutes in sextuple eruptions.
- Are the peaks visible on all seismic stations?