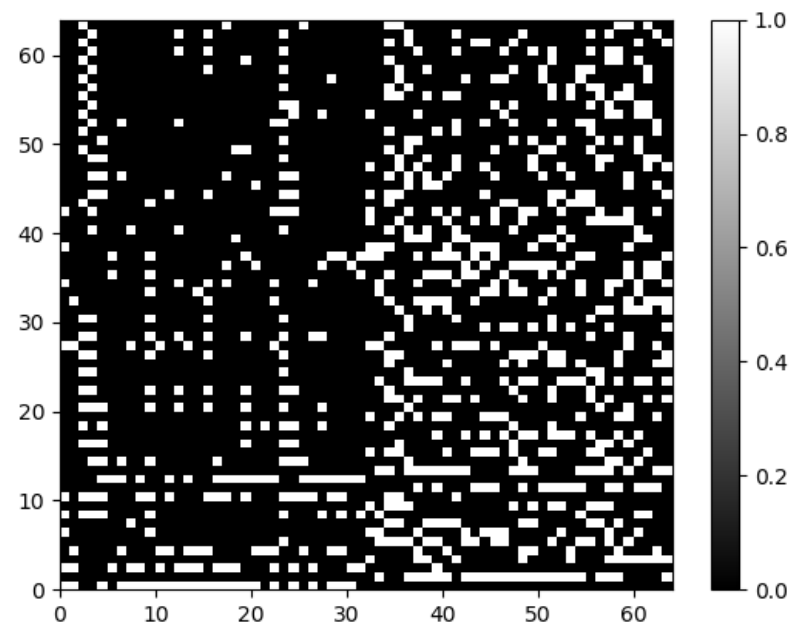
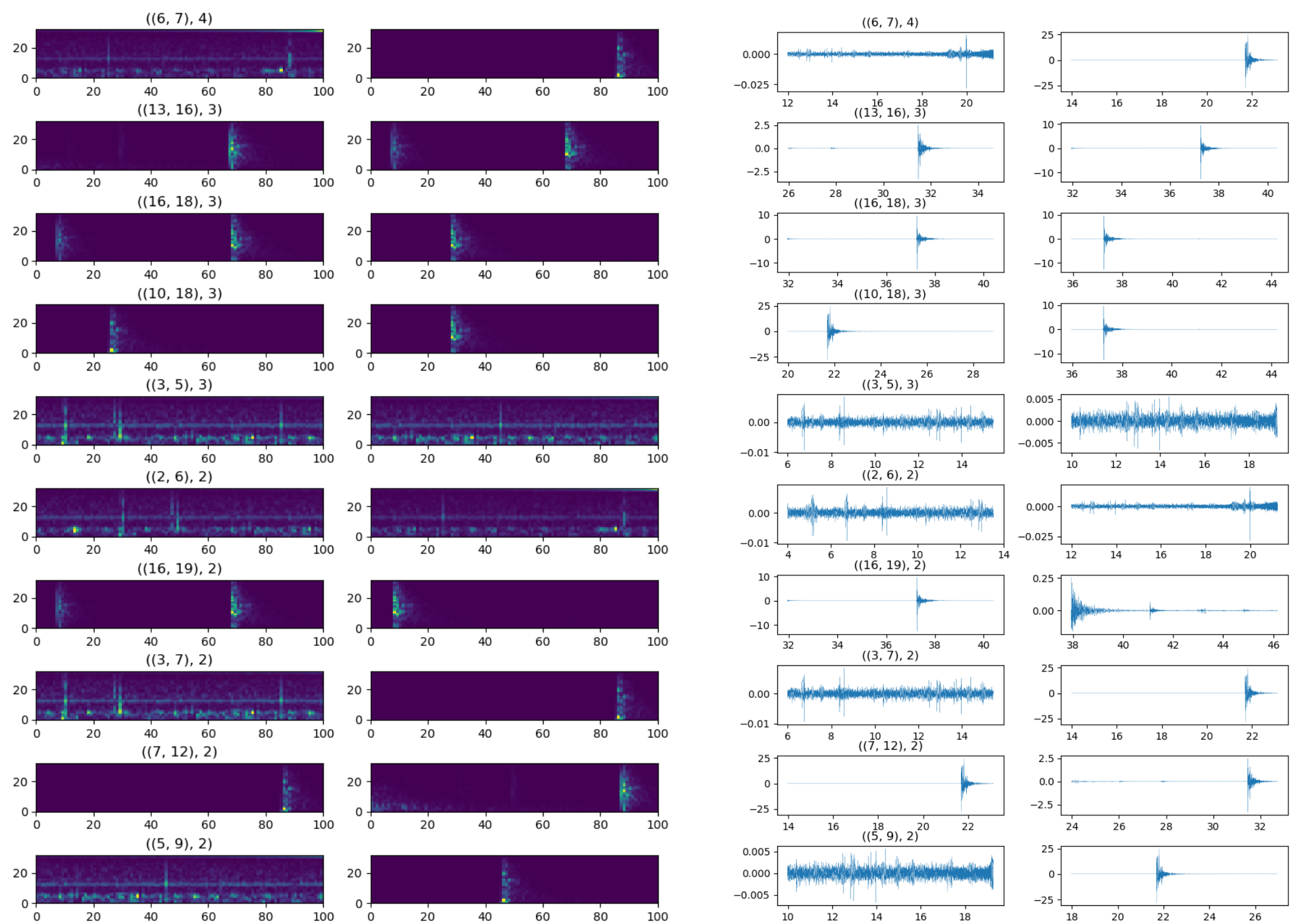


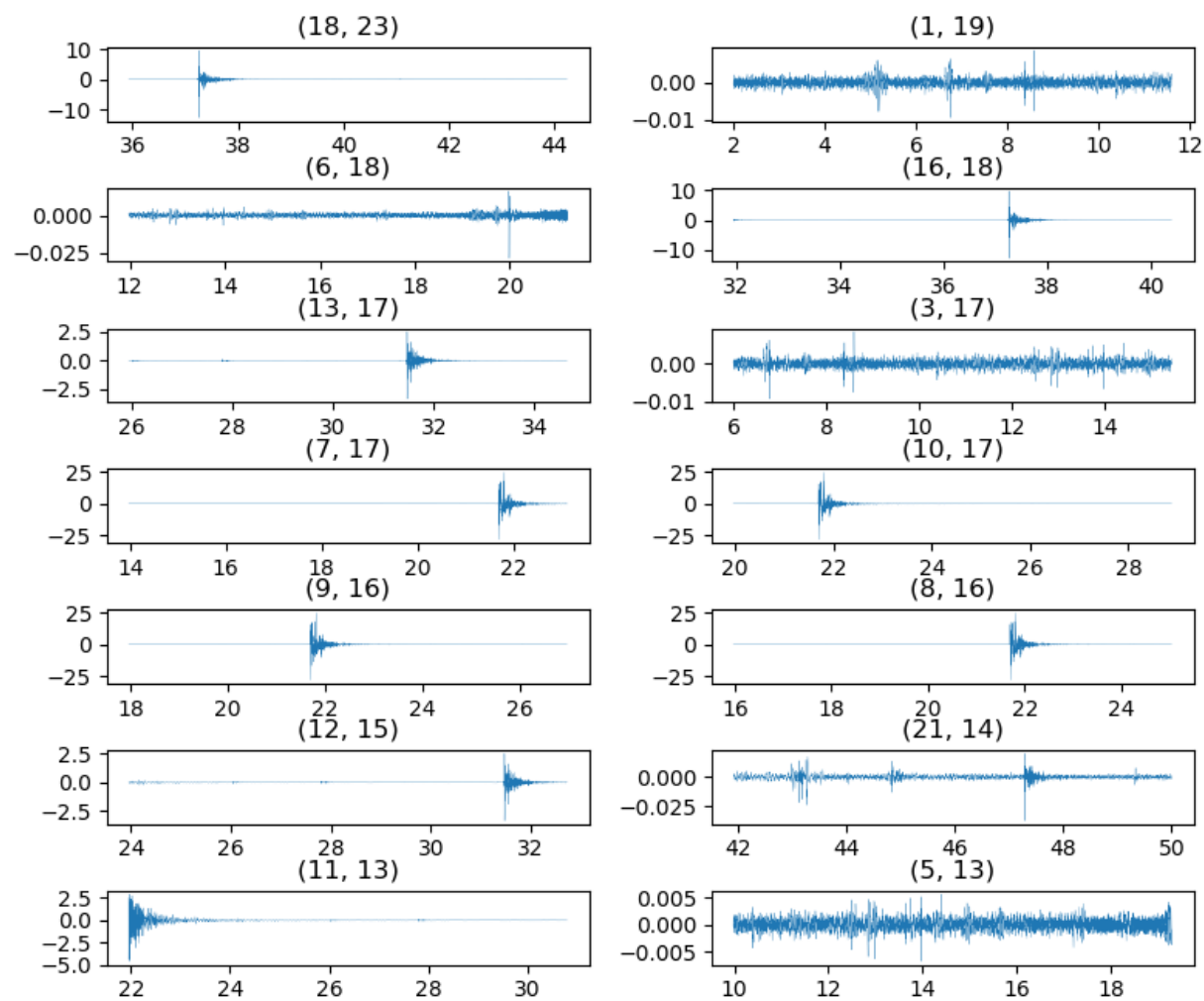
Time series used along with its spectrogram and binned-frequency spectrogram.



Example fingerprint.



Spectral images and time series of top 10 matching pairs and frequency  $((\text{window 1}, \text{window 2}), \text{frequency})$ . Each row is a matching pair. The horizontal axis of the spectral image shows samples while the horizontal axis of the time series shows continuous time.



Time series of top 14 windows that had a matching window (window #,frequency). For example, window 18 matched with another window 23 times. Some of the windows show the same event. For example, windows 7-10 show an event at 22 seconds.

How do we find the start time of the events? Autocorrelate?