



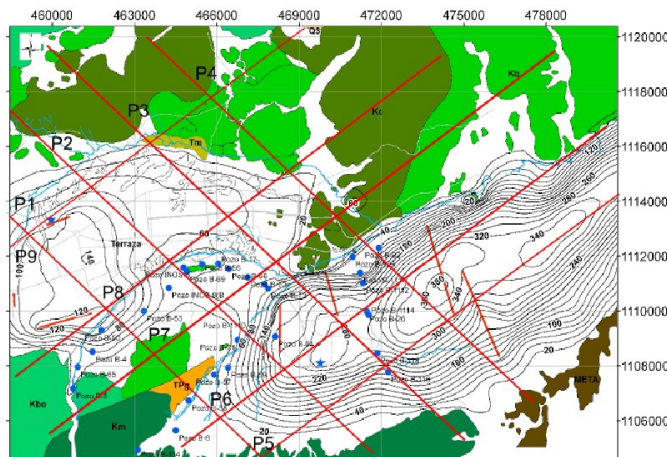
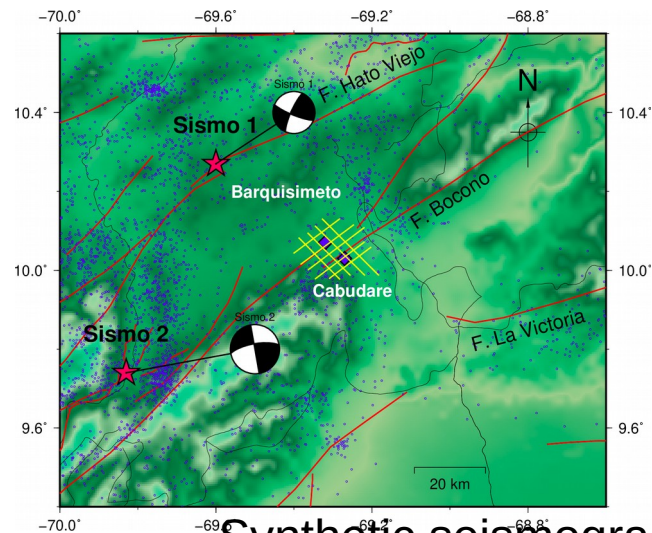
Clustering Response Spectra Ratio

Leonardo Alvarado (joleonar@gmail.com)

Machine Learning for Physicists mini project

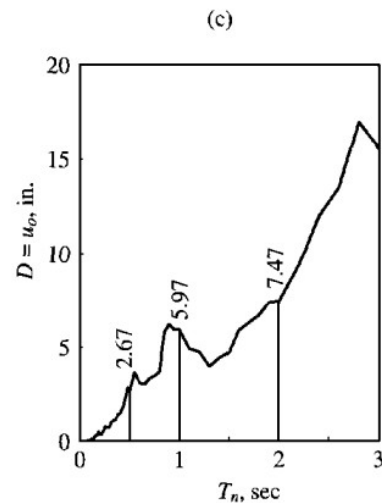
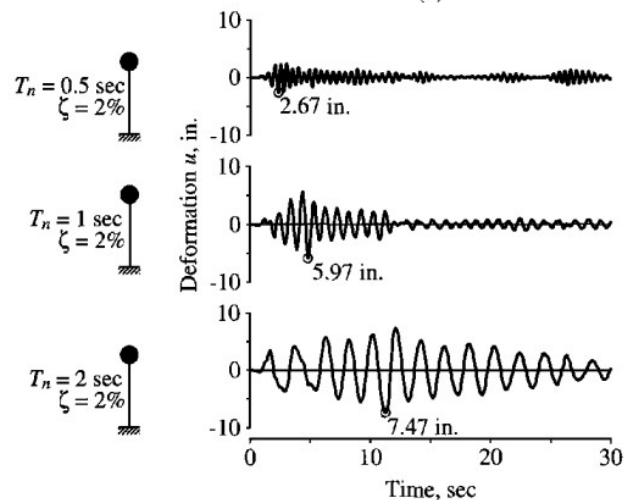
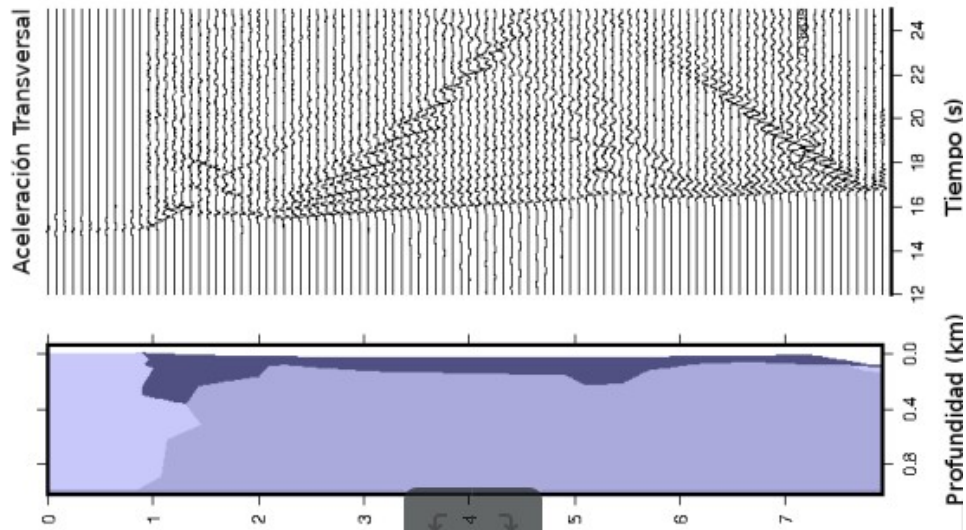
2021 Lectures

Simulation of the wave propagation of seismic waves



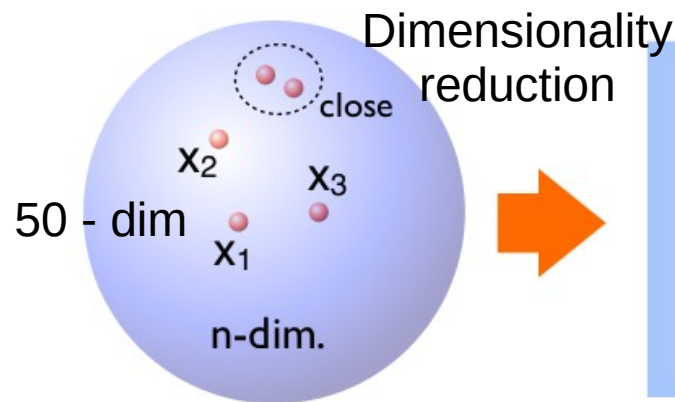
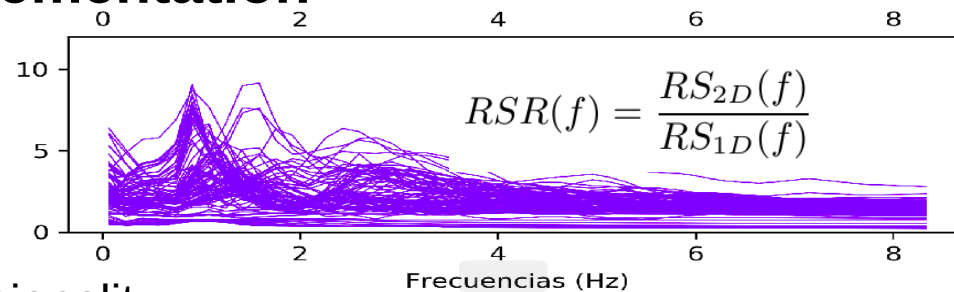
Synthetic seismograms

Response Spectra

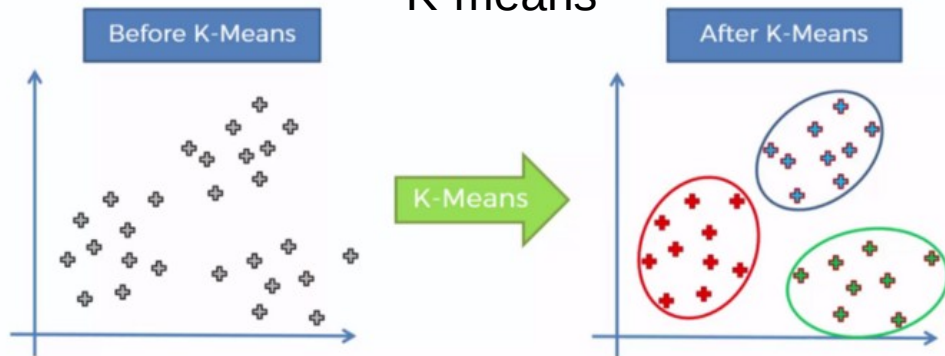


879 curves along 9 profiles
50 points (each curve)

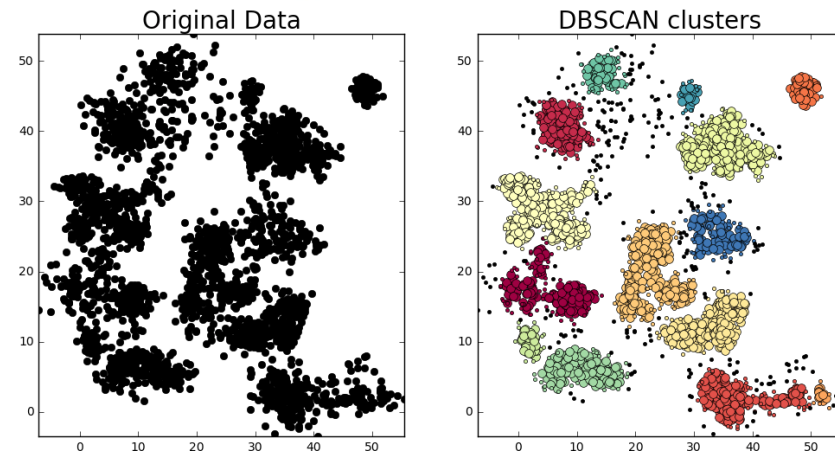
Implementation



K-means

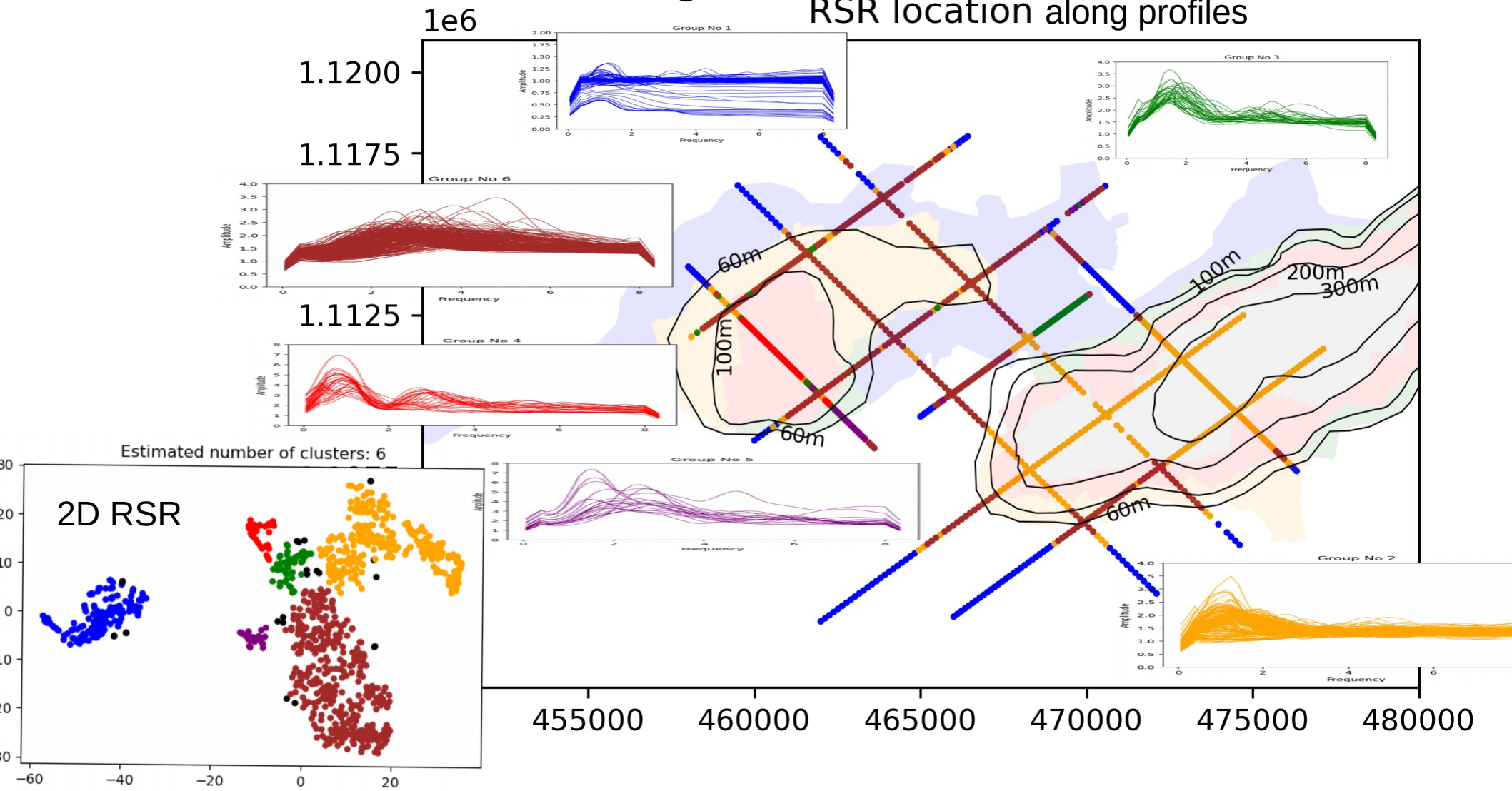


DBSCAN



Results: DBSCAN clustering

RSR location along profiles





Thank you for your attention!

Leonardo Alvarado

comments: joleonar@gmail.com