

Figure 1

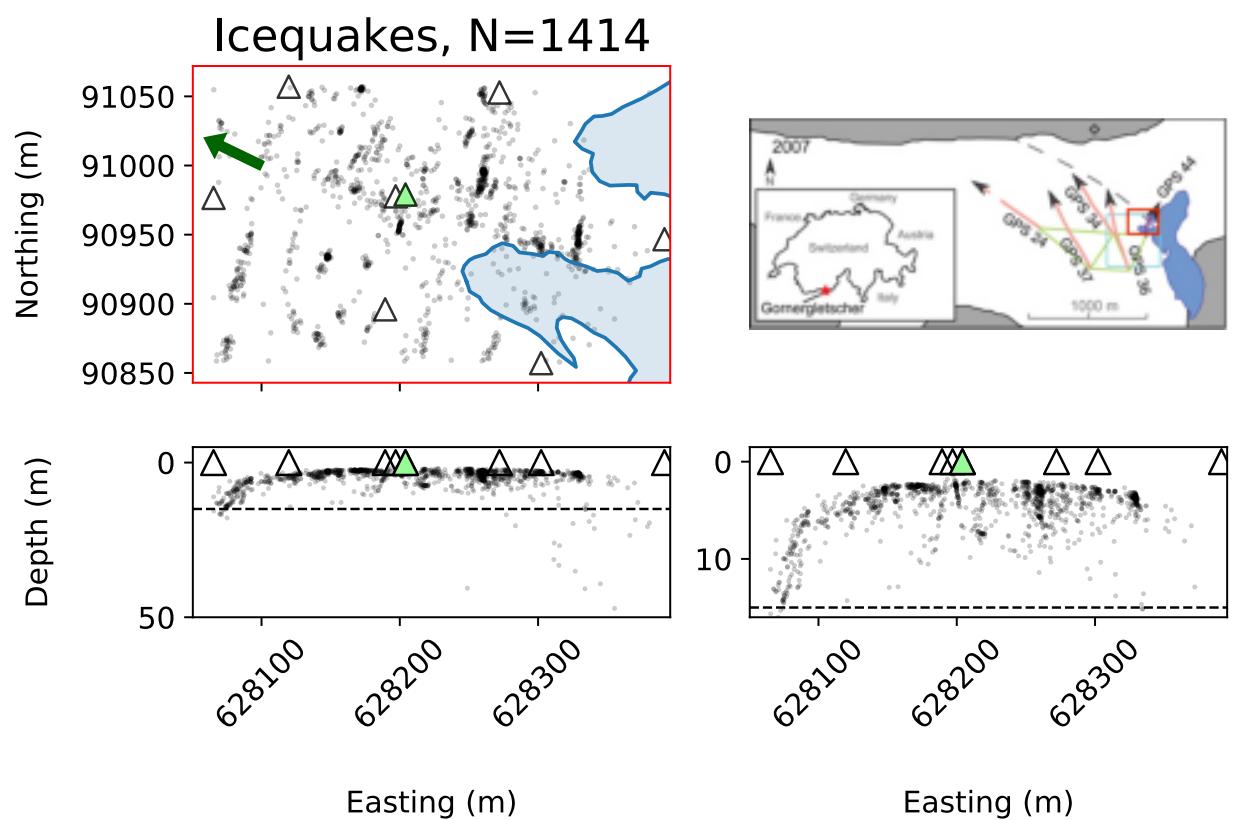


Figure 2

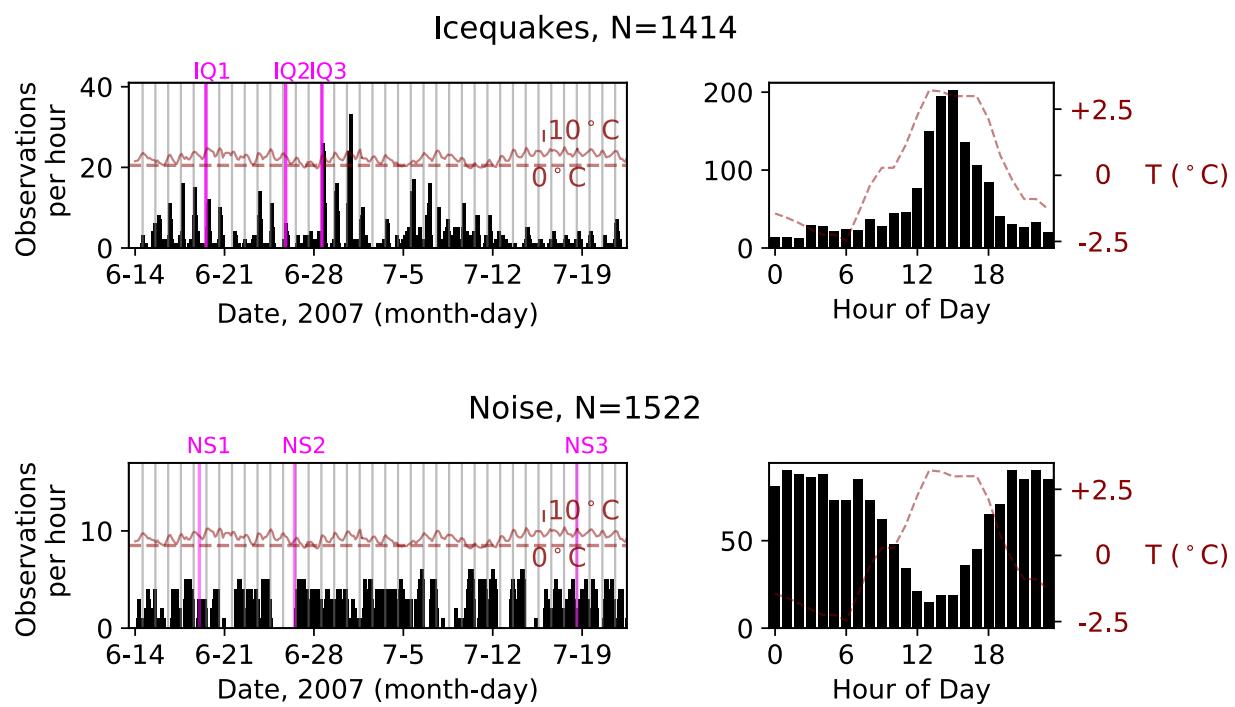


Figure 3

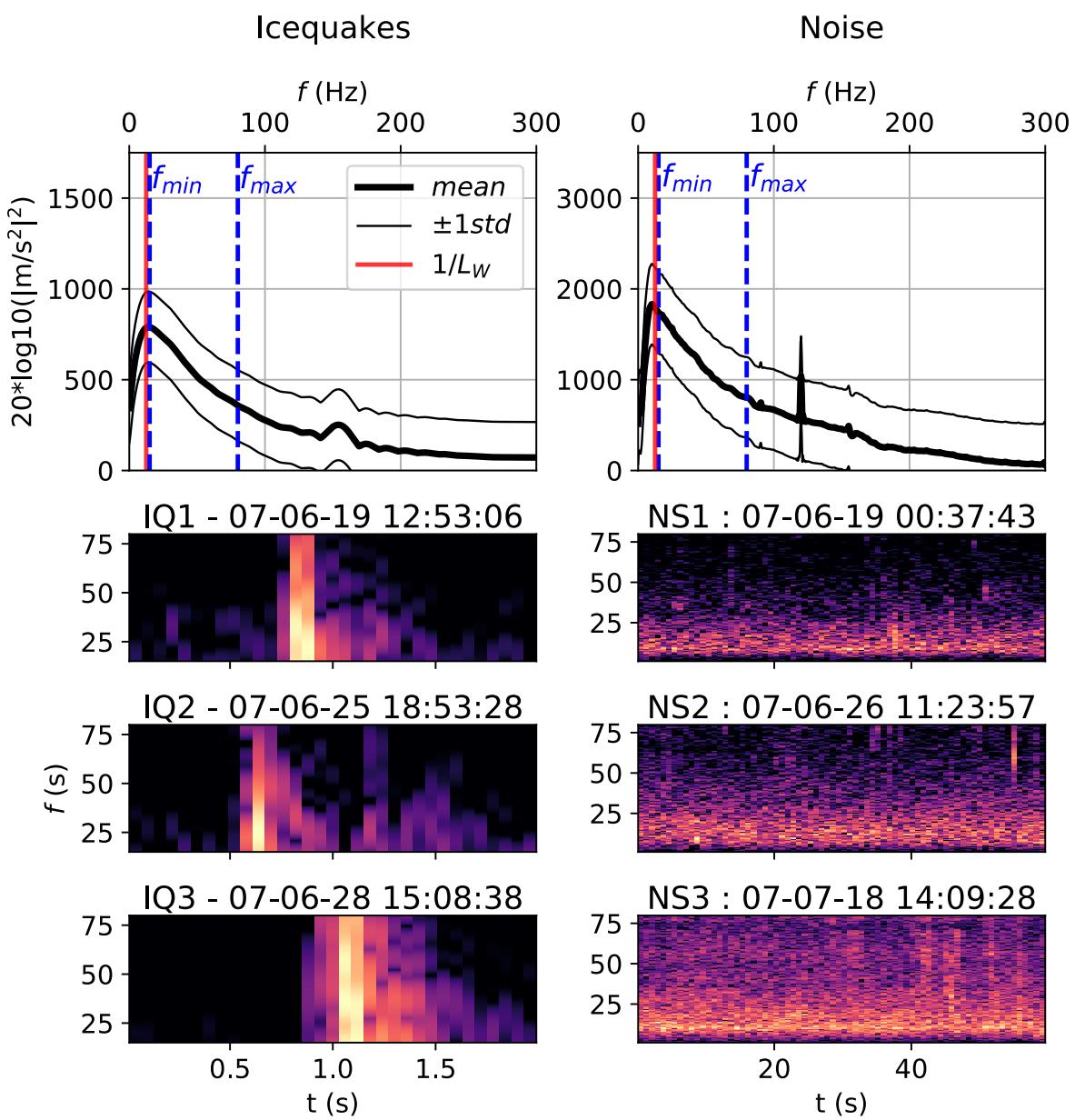


Figure 4 — add Kmeans shows fingerprint examples (photoshop!!)

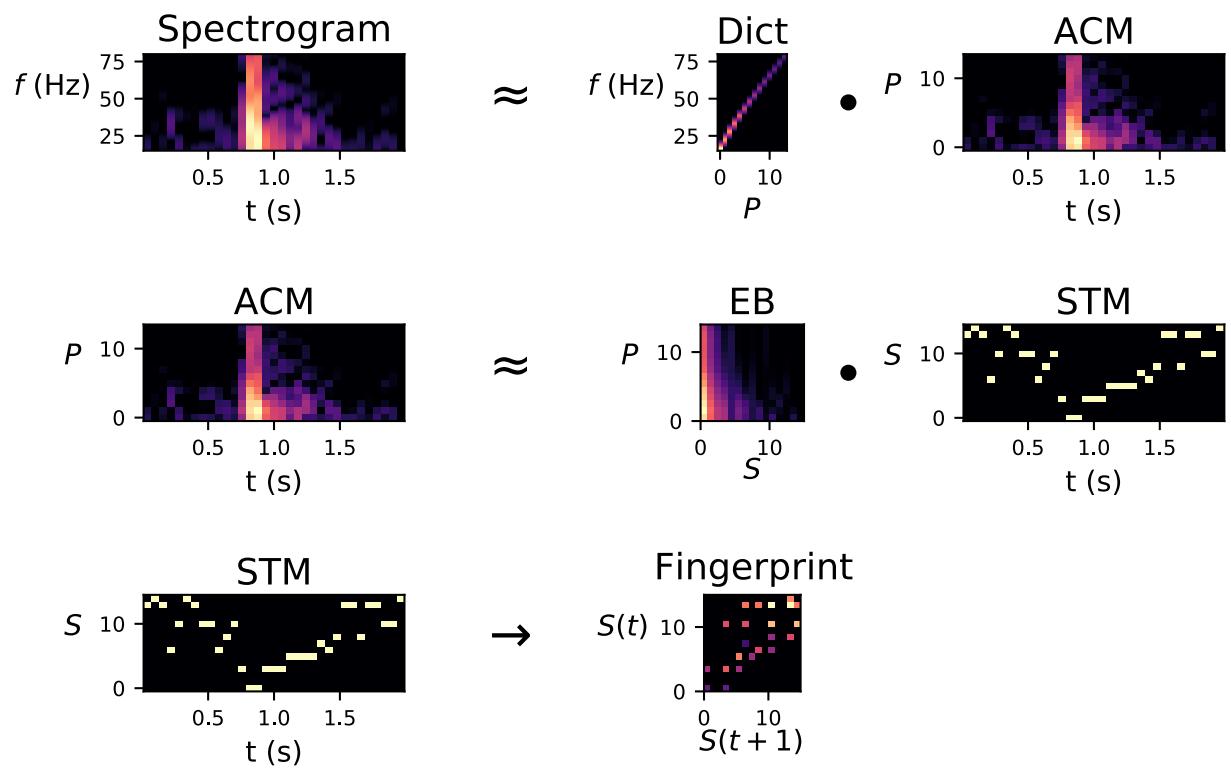


Figure 5 - **PCA by cluster and time**

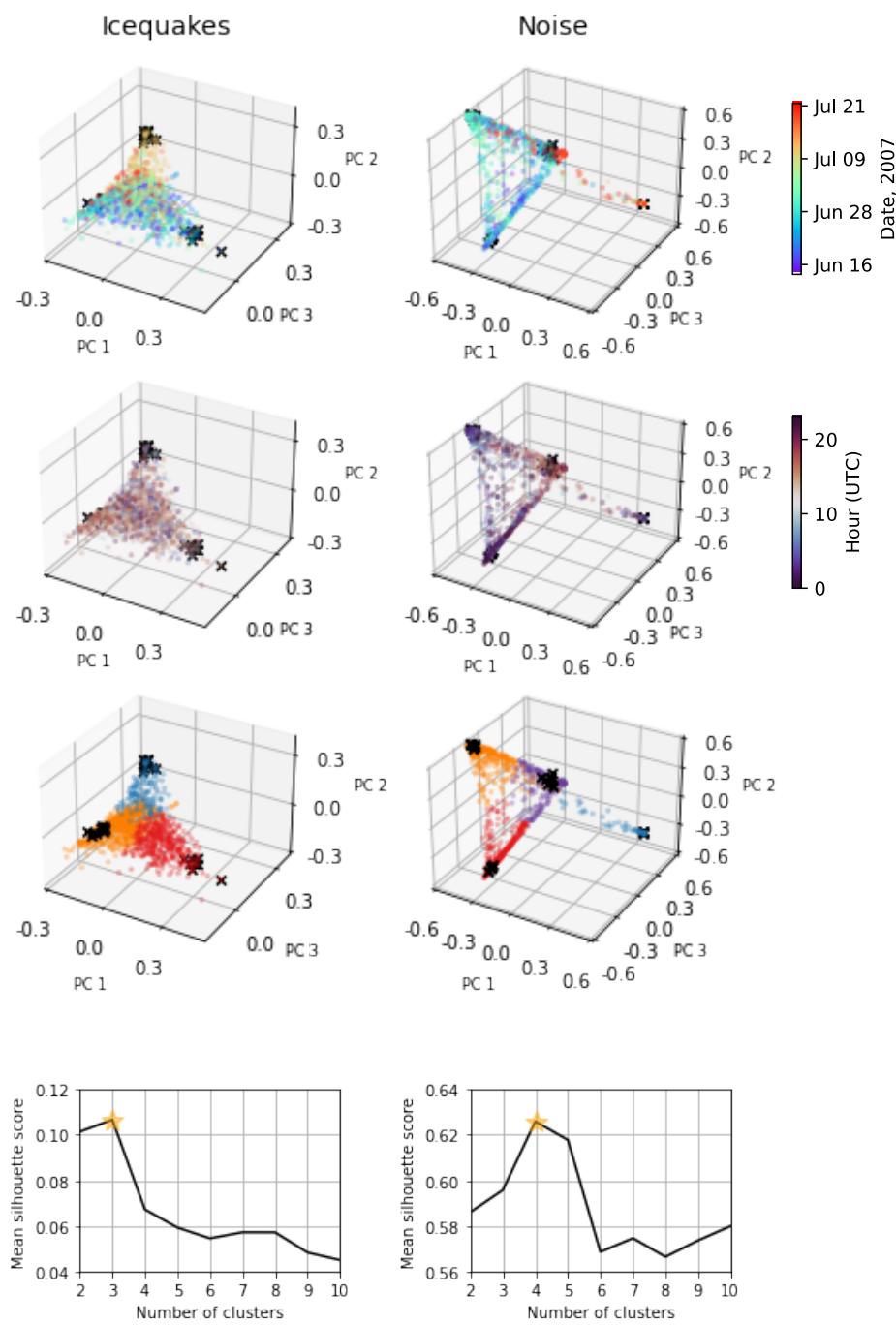


Figure 6 - FPs

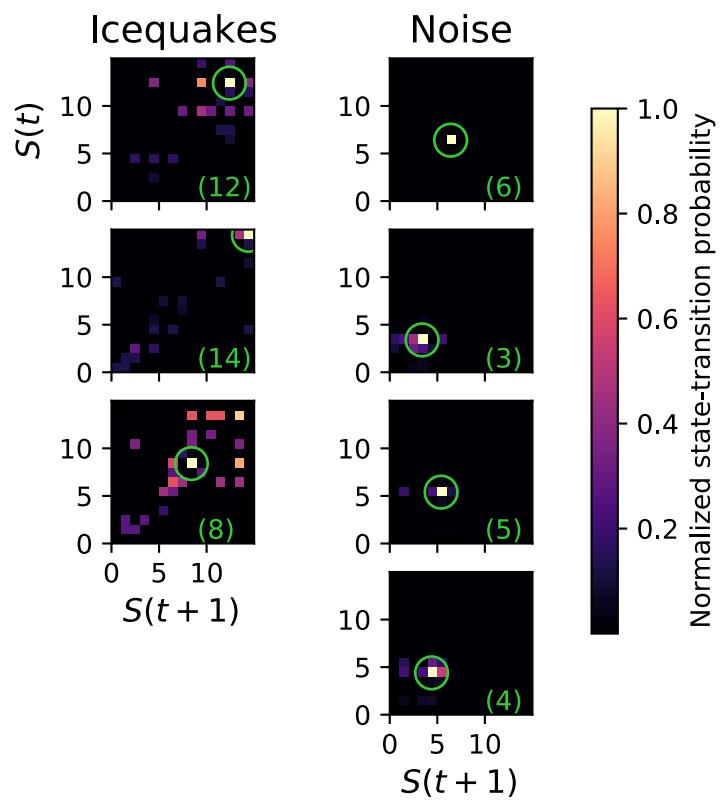


Figure 7 - add avg CC for intra-cluster

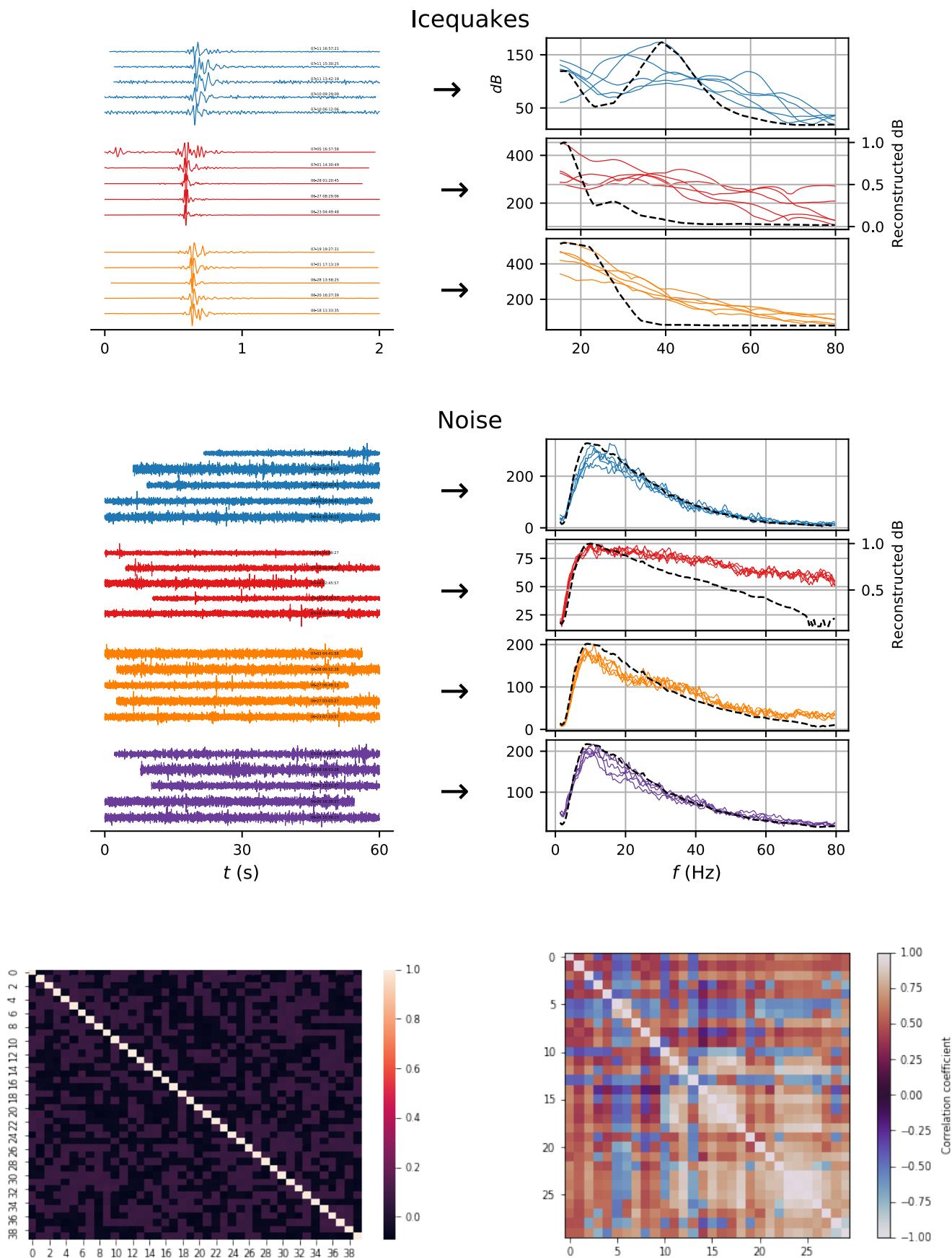


Figure 8

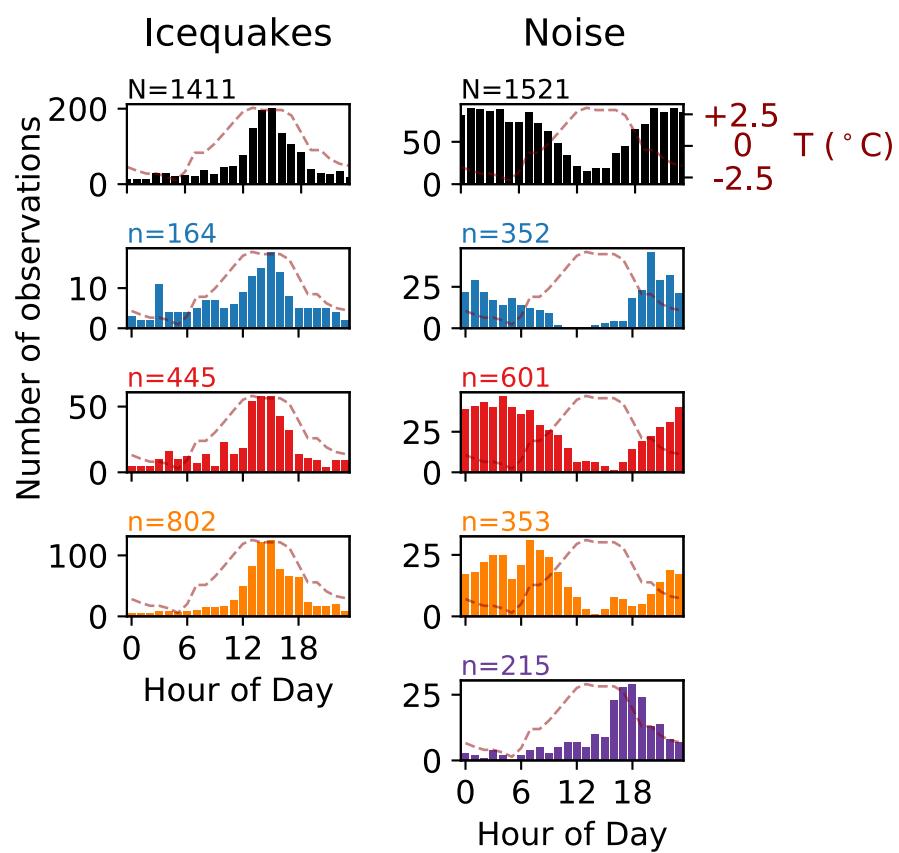


Figure 9 (fix velocity label, ylim for lake/rain)

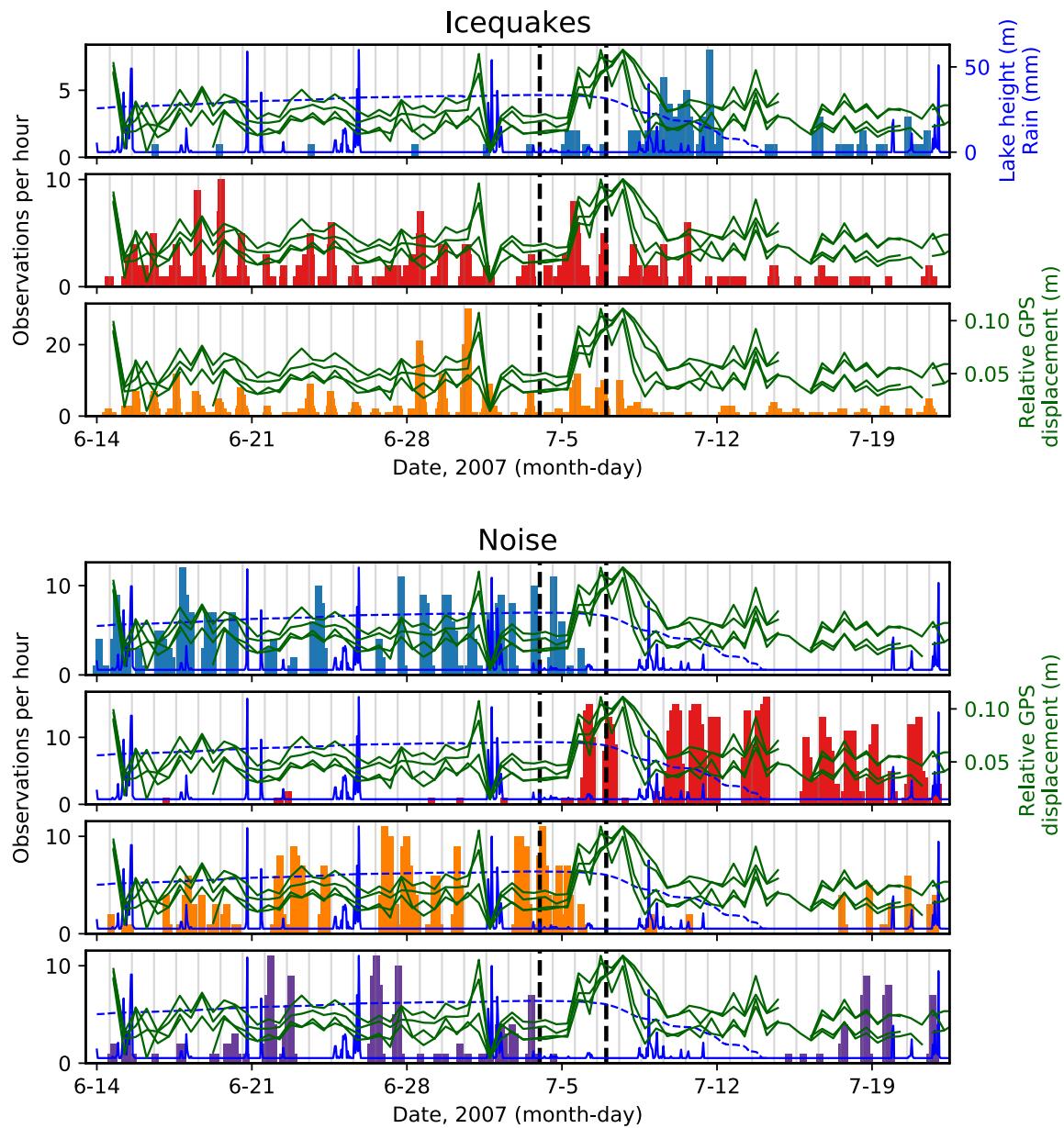
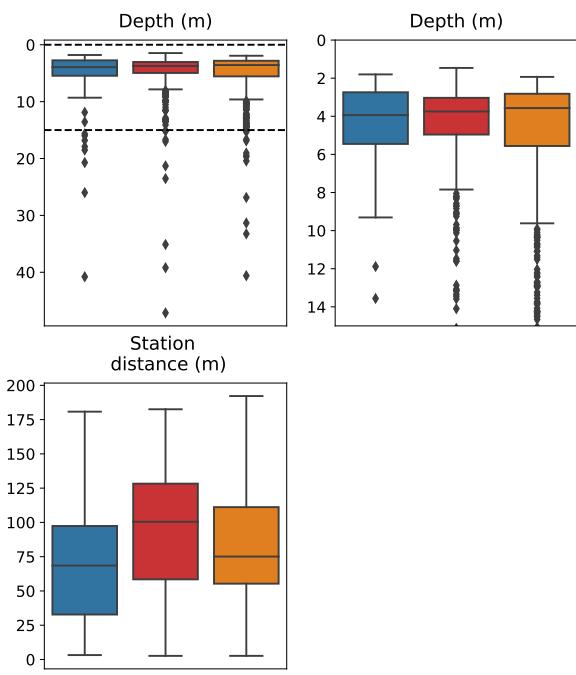
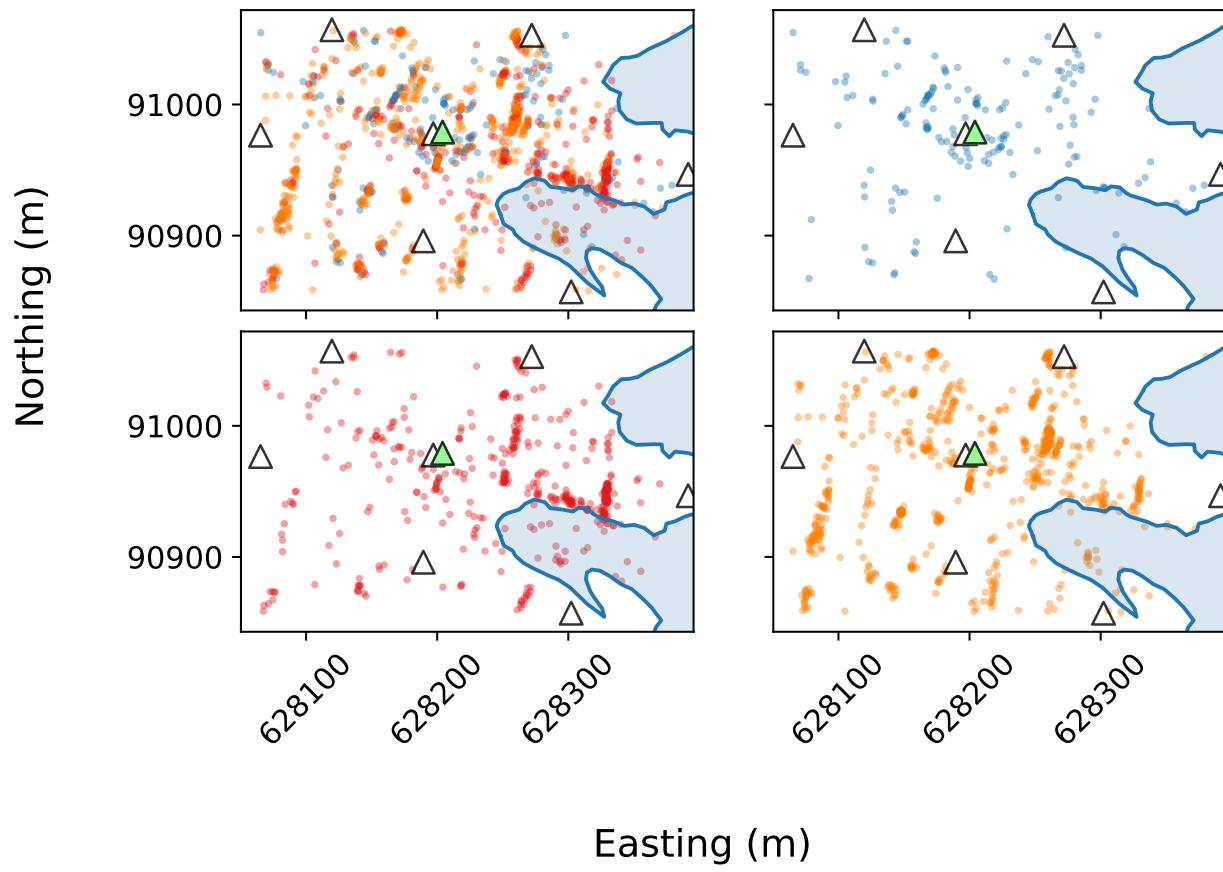


Figure 10



Figure

11 - box plot

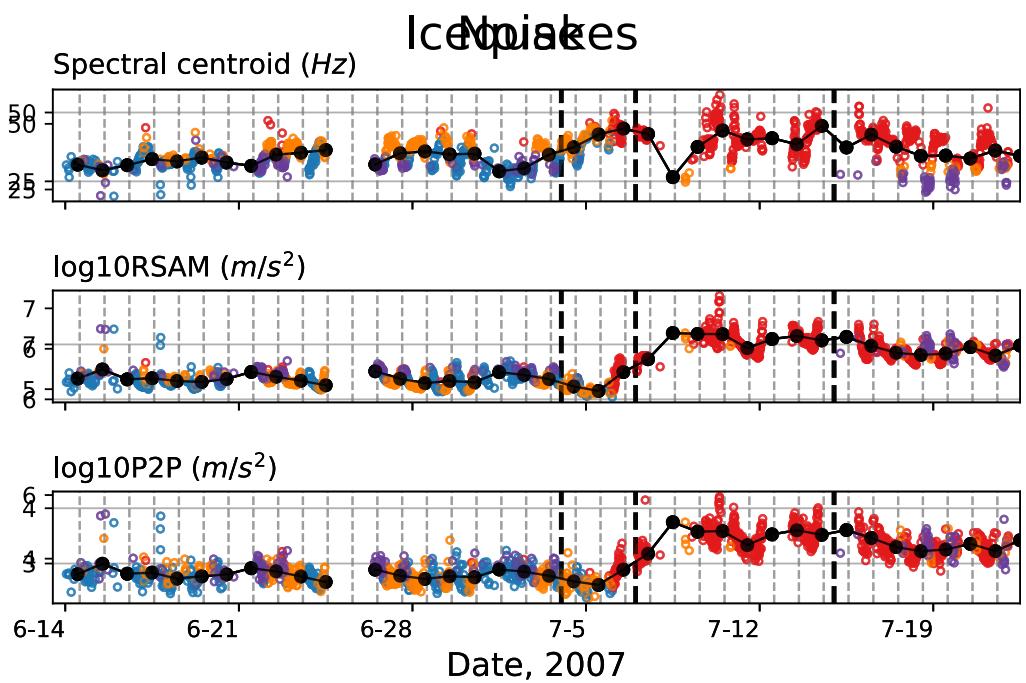


Figure 12 - kmeans on spectra

Figure 13 -reconstructed spectra