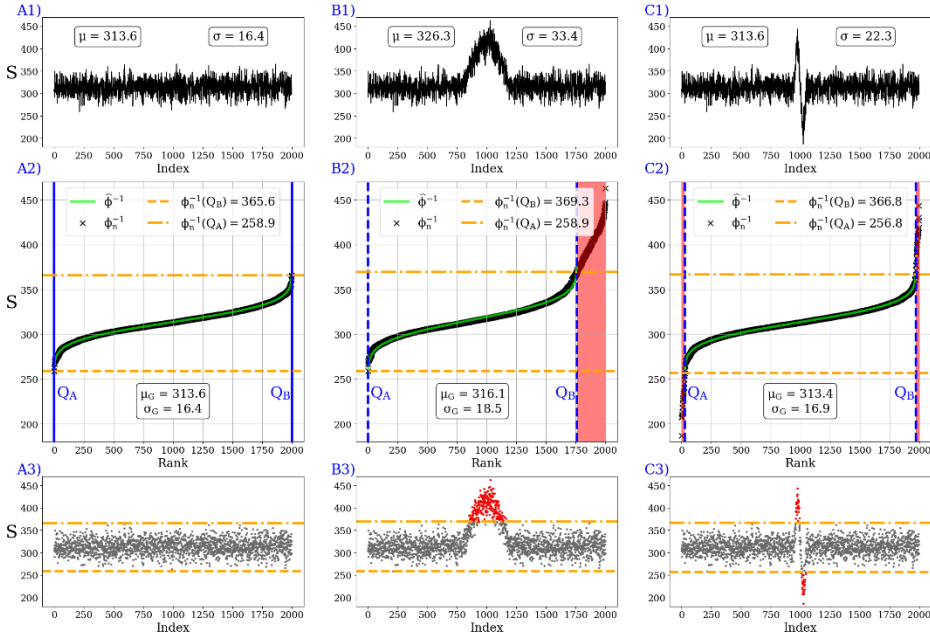


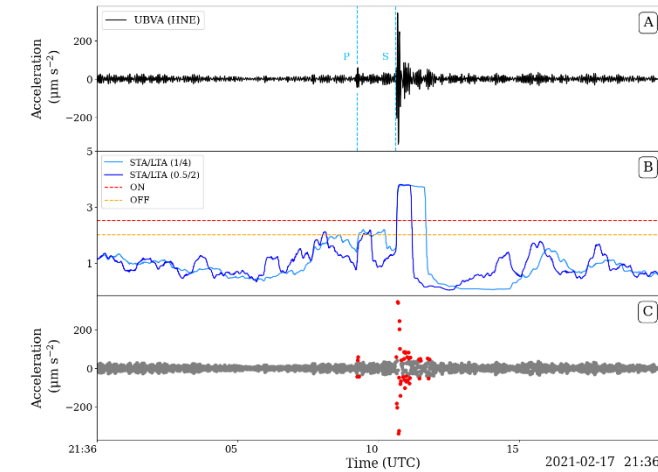
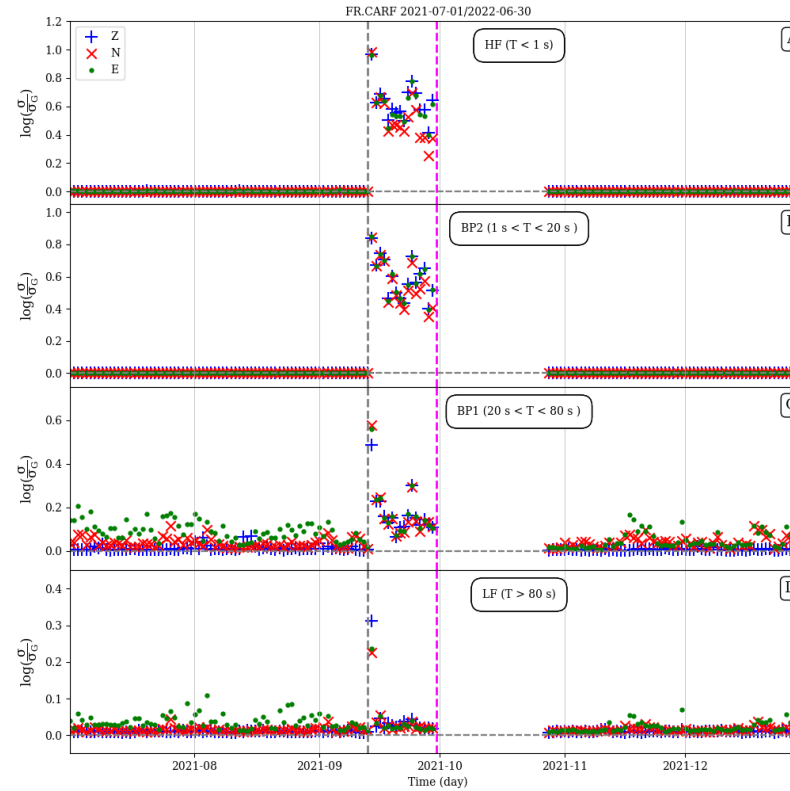
Seismic Station Monitoring Using Deviation from the Gaussianity

Introducing a New Statistical Theory to Quantify the Gaussianity of the Continuous Seismic Signal

BGS: $\mu_0 = 314$, $\sigma_0 = 16$



This method points out all non-Gaussian samples in a given dataset (without any threshold) to compute the unbiased average and standard deviation values.



Application to the seismic signal for station quality monitoring (left) or to define the end of a quake, i.e. when the anomalous signal returns to the background level (above). Many other applications can be found.