

Report of assembled data set number assigned 19-023 with the short-name STR-2016.

The dataset consists in 57 infrasound signals with 15 seconds long related to Strombolian explosion recorded at 14 stations at Stromboli Volcano.

For each event, I created a matlab file named with time in UTM of the first value of time window of the infrasound signal; each matlab file contains the following variable:

P: Pressure matrix in Pascal (14 rows x 1500 columns), each row corresponds at the infrasound signal recorded at each of the 14 stations, the name of station corresponding at the infrasound signal can be found at the same index in the vector "namestz".

time: is the vector time in UTM (1 row x 1500 columns)

namestz: Contains the name of the 14 stations. The name of the stations are organized in the same order of the 14 rows in the pressure matrix (P)

smp: is the sampling rate

Lon: Longitude of stations, the name of station corresponding at the longitude value can be found at the same index in the vector "namestz".

Lat: Latitude of stations, the name of station corresponding at the latitude value can be found at the same index in the vector "namestz".