

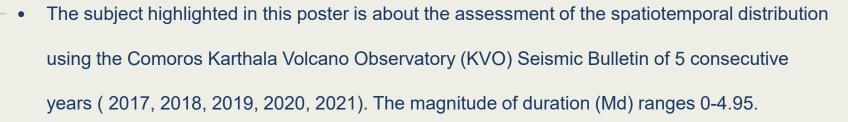


Assessment of local Seismic records and the largest earthquake magnitude in Comoro-Islands between 2017 and 2021



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- This 5-year time frame includes the earthquake swarm of Mayotte Island of the year 2018
 - Where, the highest magnitude recorded on May 15, 2018 is Mw5.9
- B-value calculation:
 - 0.994 is the calculated b-value
 - · while previous studies showed
 - · similar values, meaning close range
 - e.g. White et al. (2019) Submarine
 - volcanoes, ranging "0.9-1.3",
 - which matches the Mayotte submarine eruption

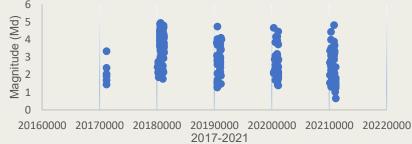
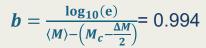


Fig:2: Spatial distribution of the 5years (2017,2018,2019,2020 and 2021)



The Final b-value: 0.994±0.13



Fig.3: highest (Md) magnitudes from each year

