



## SEISMOLOGY BULLETIN

February 2024

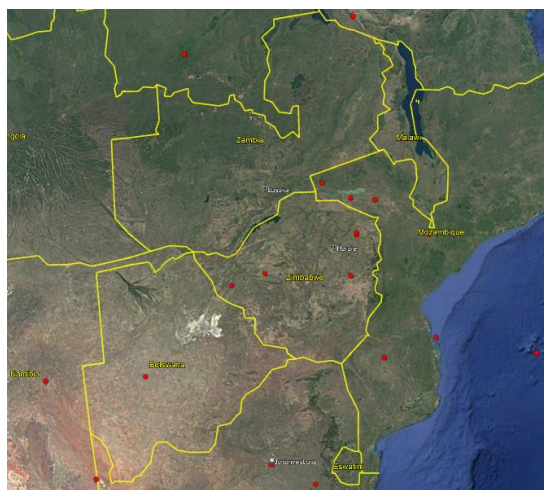
### DESCRIPTION OF THE SEISMIC EVENTS

During the month of February 2024, a total of 20 events were recorded and analyzed, with 5 local, 14 regional and 1 tele-seismic (distant) event. The biggest local earthquake was of magnitude 4.1 and the epicenter was in Wedza. Earthquakes on the eastern side of the country are caused by the East African Rift System which runs down into Mozambique.

### LOCAL EVENTS

Table 1: Epicenters of Local Events

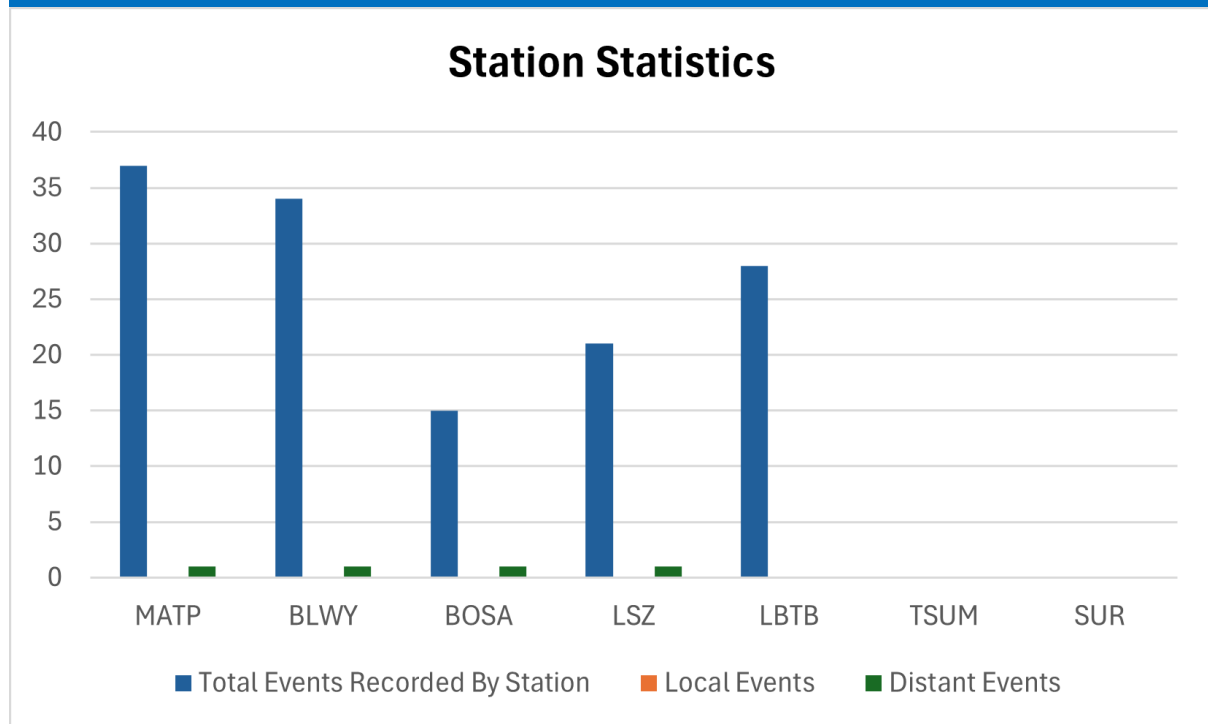
No. Of events	Areas felt in Zimbabwe	Date	Time (UTC)	Location of events	X	Y	Magnitude
1.	Non	13/02/24	2318hrs	Hwange	-19.197	26.815	3.4
2.	Non	14/02/24	1650hrs	Mutoko	-17.293	31.412	4.0
3.	Non	15/02/24	0747hrs	Wedza	-18.988	31.786	4.1
4.	Non	26/02/24	1407hrs	Lupane	-18.792	28.227	3.5
5.	Non	28/02/24	0059hrs	Mutoko	-17.382	32.057	3.6



## CURRENT NETWORK STATUS

MATP is the only station currently functioning effectively. The battery for BLWY is non-operational, so it only functions when there's electricity. We no longer have KRI and CHIP stations. Our coverage and station network are very poor, this adversely impacts the accuracy of our results, particularly the locations of local events. Additionally, the limited number of stations hinders our ability to analyse several events.

## STATISTICS OF STATIONS USED IN DATA ANALYSIS



Number of events selected with given stations	20
Number of events with no phases	0
Number of events with waveforms	20
Number of events with only waveforms	0
Total number of waveform files	20
Total number of local events	5
Total number of regional events	14
Total number of distant events	0
Total number of events	20