



REPUBLIC OF NAMIBIA

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GEOLOGICAL SURVEY OF NAMIBIA

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PRESS RELEASE

REPORT ON THE 13/02/2018 and 16/02/2018 EARTHQUAKE RECORDED IN NAMIBIA

INTRODUCTION

On Tuesday the **13th of February 2018 21:40 (GMT)**, a tremor was recorded in Namibia with a magnitude of **4.0 M_c** approximately **100 km NW of Kamanjab**. Three local seismic stations from the Namibian seismological network recorded the event and preliminary analyses were performed on this data set. Seismic phases were picked from these stations for analyses and the event is located at latitude (**Y**): **-19.019S**, longitude (**X**): **14.012E**, at a shallower depth of less than 15 km with Coda magnitude **M_c of 4.0**, with a 0.005 degree error in latitude and longitude (approx. +/- 5 km radius).

DATA

Three phase readings were picked by the Geological Survey for WIN (Windhoek), ARMS (Ariamsvlei) and AUSN (Aus) and is shown indicating the time that it occurred at around **23:40 local time**.

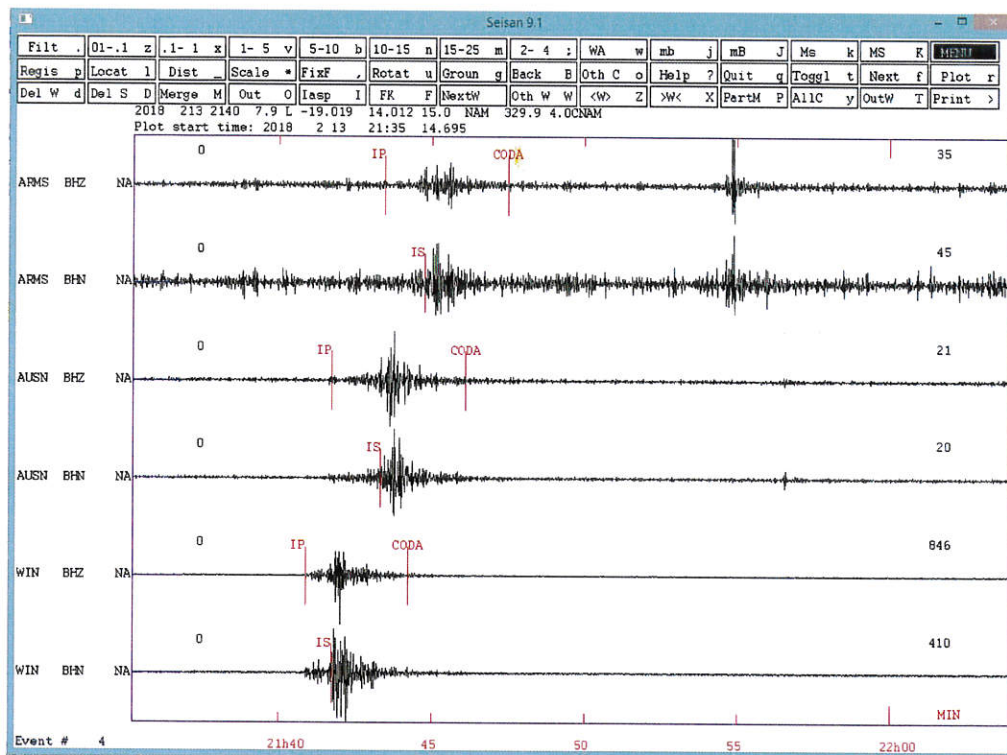


Figure 1: Waveform traces of the earthquake recorded on 13th of February 2018 at 23:40 local time 100 km NW of Kamanjab.

EPICENTRAL LOCATION OF THE EVENT

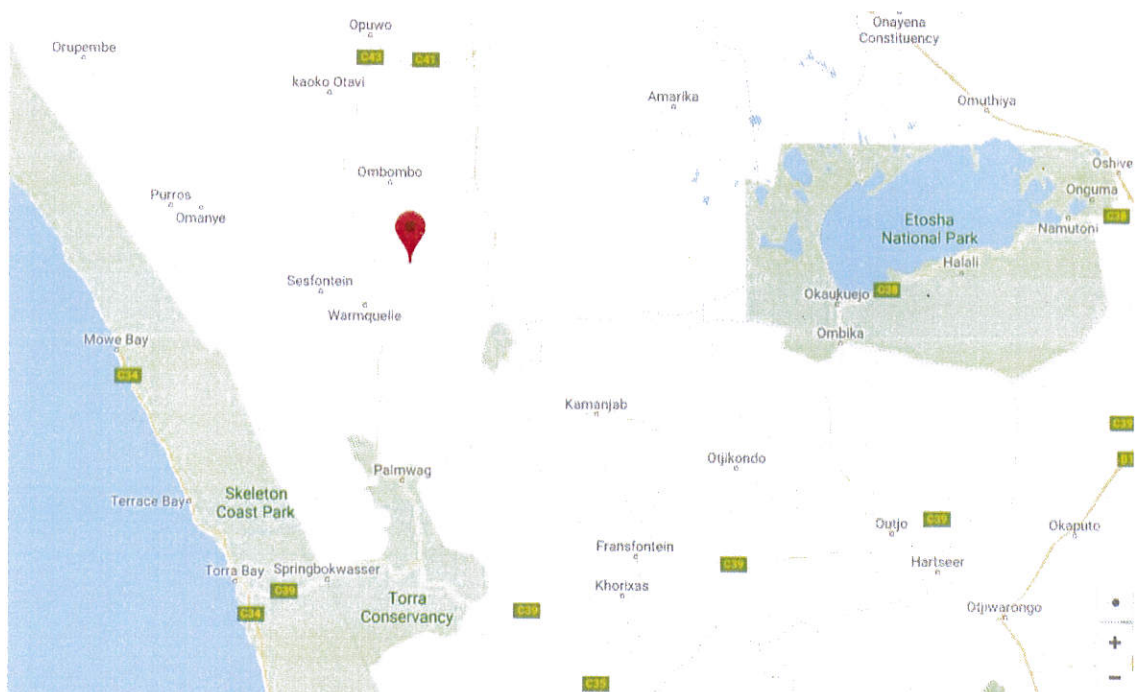


FIGURE 2: Location of epicentre of the earthquake (Red icon), which is 100 km NW of Kamanjab

The current epicentre of the event is located in the Kaoko Orogenic belt, which is a regional tectonic structure. The Kaoko Belt runs in a north-west trending direction and is a tectonic unit on the North West coast of Namibia.

EVENT SUMMARY:

The earthquake was located at -19.019°S and 14.012°E , depth at 15 km and with a coda magnitude M_c is 4.0.

2nd event, 16 February 2018

On the early hours of Friday the **16th of February 2018 00:52 (GMT)**, another tremor was recorded in Namibia with a magnitude of **2.9 M_c** approximately **10km North of Ariamsvlei**. Three local seismic stations from the Namibian seismological network recorded the event and preliminary analyses were performed on this data set. Seismic phases were picked from these stations for analyses and the event is located at latitude (Y): **-28.059°S** , longitude (X): **19.755°E** , and at a shallower depth of less than 15 km with Coda magnitude M_c of 2.9.

DATA

Three phase readings were picked by the Geological Survey for WIN (Windhoek), ARMS (Ariamsvlei) and AUSN (Aus) and is shown indicating the time that it occurred at around **02:52 local time**.

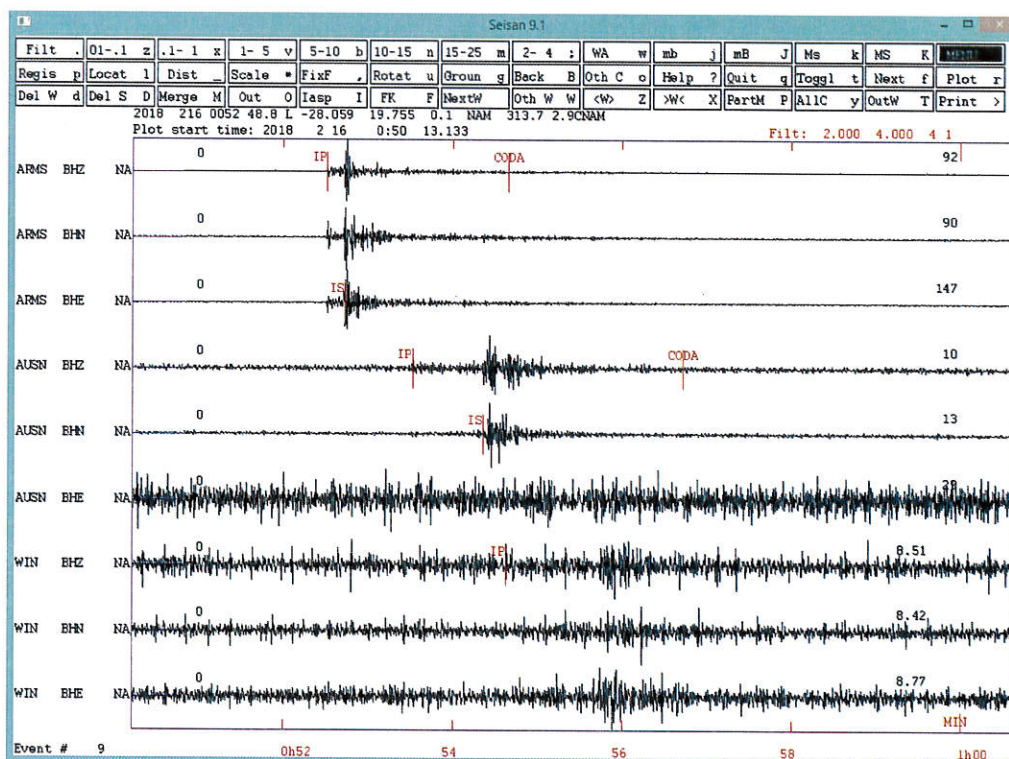


Figure 3: Waveform traces of the earthquake recorded on 16th of February 2018 at 02:52 local time 10 km N of Ariamsvlei.

The current epicentre of the event is located in the Namaqua Orogenic belt, which is a regional tectonic structure in southern part of Namibia. The area is one of the known seismic zones in the country.

EPICENTRAL LOCATION OF THE EVENT



FIGURE 4: Location of epicentre of the earthquake (Red icon), which is 10 km North of Ariamsvlei

EVENT SUMMARY:

The earthquake was located at **-28.059S** and **19.755E**, depth at of 15 km and with a coda of magnitude **2.9 Mc.**

Another seismic event was recorded south of Upington on the 14th of February 2018 by the Namibia seismological Network. The event had magnitude of **3.4 Mc.**

[Signature]

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