

SEISMIC NETWORKING IN MALAWI

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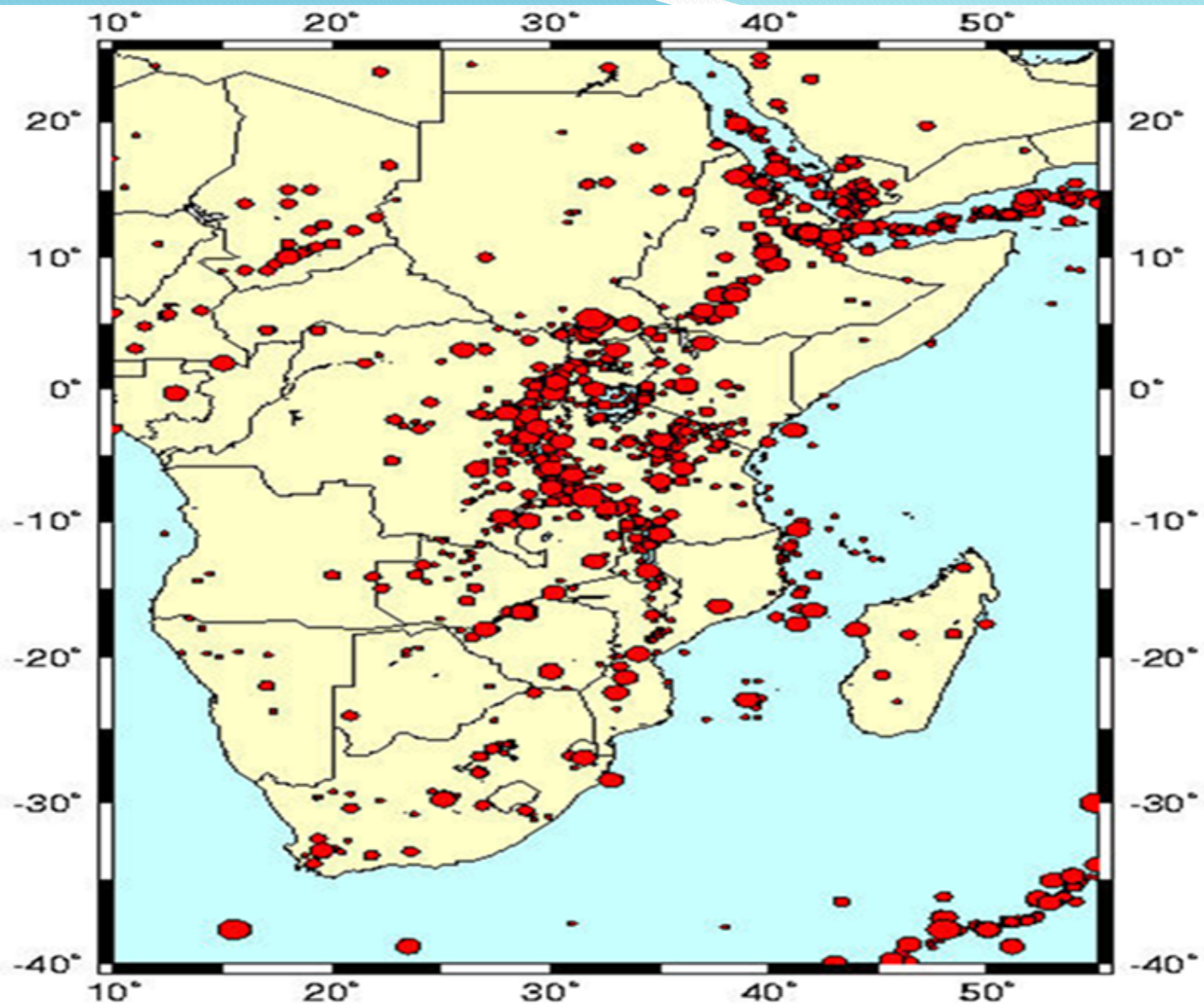
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INTRODUCTION

- **Malawi lies on the western flank of the East African Rift System, (EARS), between Latitudes; - 9° and - 17° East, Longitudes; 32° and 36° south . The Rift forms one of the active zones on Earth, this is characterized by numerous Earthquakes within the region. The tectonic map (Fig.1) shows the Geological features/characteristics of Malawi and the rift system, which extends from Rukwa,toLake Malawi to the Ulema graben in Mozambique.**





Magnitudes: • $M=4.0-4.9$ • $M=5.0-5.9$ • $M=6.0-6.9$ • $M=7.0-7.9$

In Malawi we have 11 seismic stations :

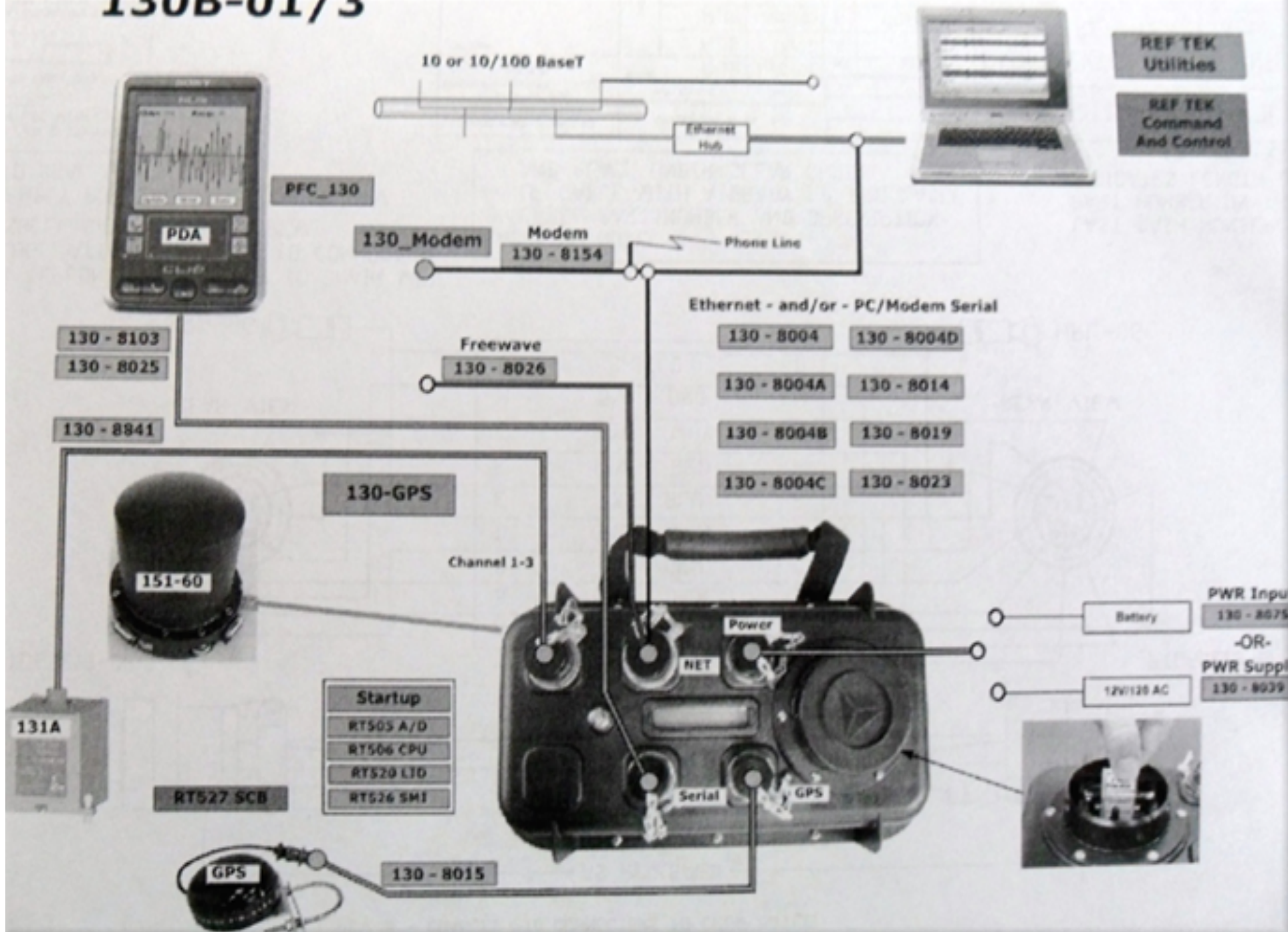
- Kalonga (KARM)
 - Rumphu (VWZM)
 - Mzuzu (MZM)
 - Lilongwe (LILM)
 - Mchinji (MCHMW)
 - Nkhota-kota (KKAMW)
 - Malindi (MALM)
 - Chileka (CLK)
 - Bangula (BANGI)
 - Neno (NENMW)
 - Zomba (ZOMB)
- 3 of this are Africa Array stations



Equipment's

- We are currently using the equipment from Reftek and we mainly use compass and SEISAN software .
- Below is the figure showing a complete set of equipment in one station.

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means of collecting Data

- Data is collected manually from seismic stations and is transferred to data centers where all the analysis is done.
- Currently the only data which is shared is the one obtained from Africa array GPRS stations.
- It is our vision to make all the data available to the seismology community in near future.



CHALLENGES

- Lack of adequate training to both technical staff and support staff to allow them to discharge their duties more efficiently.
- Lack of adequate equipment .
- Economical problems .-Though Malawi is currently working on its economic recovery, we are currently facing economic problems that directly affect the operation of seismic stations.



Recommendations

I there for recommend to well wishers and Institutions to provide as with.

1. Seismological Instruments .
2. Long term trainings /scholarships .
3. Include Malawi in seismological programs.



THANK YOU VERY MARCH