

Gravimeter Training Course

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Place: Abuja, Nigeria

Day 1

- Presentation about history of gravimetry, different kind of gravimeters, functioning of the LaCoste & Romberg gravimeter and network adjustment of the measurements.
- Types of corrections for terrestrial gravity (drift, earth tides, atmosphere)
- Use of absolute gravity reference points (datum problems)
- Presentation about the history of GPS, its importance for gravity surveys and current techniques to analyse GPS observations.
- Presentation on good practises for gravity observations (levelling, measuring the heights of GPS and gravimeter, opening and closing a network, finding good points for GPS and the gravimeter).
- Training on instrument use during the afternoon.

Day 2 & 3

- Field trips to practise the theory of handling the GPS and gravimeter

Day 4 & 5

- Installation of software to analyse raw gravity data on computer.
- Students analyse of the gravity measurements under supervision.

SEGAL provides: software which runs on Windows with paper manual on how to use the software and how to make gravity and GPS observations during a field campaign.

We expect that the Office of the Surveyor General Of the Federation - Nigeria provides a LaCoste & Romberg gravimeter and a GPS receiver/antenna and the logistics for the two field trips.

The objective of the course is to learn to make good measurements with a LaCoste & Romberg gravimeter and to convert the raw measurements into gravity values.