



## 8- Geodynamic Department

### 8-1 Crustal Movements Laboratory

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\* [Scientific Publication \(National & International\)](#)

NA

\* [Reviews of Papers \(National & International\)](#)

Reviewing the paper entitled (Zenith Tropospheric Delay Corrections of GNSS Satellite Signals) NRIAG Journal of Astronomy and Geophysics, 2019.

\* [Conferences, Scientific Missions & Workshops](#)

- Space & Earth Geodetic Analysis Laboratory (SEGAL), University of Beira Interior, Portugal March 2019 (Two weeks)
- The Leadership Challenge Workshop on 1-2 September 2019 at Academy of Scientific Research.

\* [Projects](#)

- Detection of ancient Egyptian archaeological remains using modern integrated geophysical investigations and the application of 3D Laser scanner for Archaeological replica: Pyramid of Senusret II area, Lahun, Fayum, Egypt funded by Scientific Research Ac

\* [Consultancy](#)

Sharing the Department Staff for some consultancies

\* [Supervision of M.Sc. / Ph.D.](#)

NA

\* [Books](#)

NA

\* [Other](#)

Papers under review:-

There are three papers under review:-

- Evaluation of Nile Delta-Mediterranean Sea conjunction using GPS, satellite-based gravity and altimetry datasets.
- Annual sea level variations in the Red Sea observed with GNSS - Current State of Crustal Deformation and Seismic Activity from Seismic and Geodetic Data in Aswan Region, Egypt.

Field work and Maintenance:-

- one members of the field work at Aqaba GPS Network
- Install a permanent GPS stations (Port Said) after getting all required approvals.
- Exploration the Abo-Ramad Area to install a permanent station there.
- Maintenance and data acquisition a lot of permanent GPS stations such as Katamyia, Mesalat (Fayum), Suez, Edfena, Damietta, Hurghada and others.
- Maintenance and configuration most crustal Movements devices such as GPS 4000SSI and 4000SSE, GPS R8 and GPS NetR5&9.
- Training Assistant Researchers, Research Assistants and technicians of the Lab. (Equipment and software).
- Training the undergraduate students from different Egyptian universities and institutes.
- Involvement in most tenders for buying the equipment required for the Lab. and the Department.
- Attendance the Lab. And Department meetings.