

A Unified System of Transformation Parameters for Combining Different Geodetic Networks in Egypt

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Key words:

SUMMARY

Several massive investment projects are going on nowadays in Egypt. The projects use the most modernized technique of global positioning system (GPS) based on the worldwide reference ellipsoid WGS84, while all the existing maps of Egypt are based on the local Helmert 1906 reference ellipsoid. As a result, the new maps based on WGS84 as a reference ellipsoid have to be modified to fit with the old maps of the same area based on the old reference ellipsoid.

Transformation parameters are therefore needed to achieve this task. Previous trials in this respect ended with different values of transformation parameters. This paper is an attempt to find a unified system of transformation parameters to fit the whole country using the most common recent data available.

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