

## GEOID MODELLING IN THE SOUTHERN REGION OF THE BUENOS AIRES PROVINCE

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### Abstract

During the end of 1997 and the beginning of 1998 a GPS network was measured in the South of Buenos Aires province.

Most of the points of this network coincided with existing points of the Altimetric Network of the Country.

Geoidal undulations were calculated using the ellipsoidal heights ( $h$ ) obtained as the result of the GPS measurements and the orthometric heights ( $H$ ) which were provided by the Military Geographic Institute. ( $N = h - H$ ). The values of these geoidal undulations were compared with those obtained using the EGM96 global model. The range between the maximum and minimum differences was few centimeters.

One aim of this work is to test the global geoid model for long and short distances and to detect critical zones where a densification of the observations is necessary to adjust the geoidal model in study.

KEYWORD

ABSTRACT

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