



Comparison of the local geoid model determined from airborne gravity data with the geoid model from the EGM08

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This contribution deals with the local geoid determination from airborne gravity data. A mathematical model used for determination of a local geoid model by combining airborne gravity disturbances and the Earth Gravitational Model 2008 (EGM08) is shortly reviewed. The precision of final local geoid model of Taiwan is estimated by comparison of the geoid model and „real“ geoid at GPS-levelling points. The same comparison at GPS/levelling points is done for the geoid evaluated only by using EGM08. Conclusions concerning a rate of improvement of „global“ geoid from EGM08 using the „local“ geoid from airborne gravity data are presented.