

Gravimetric geoid modeling using airborne gravity data : a case study in Colorado, U.S.A.

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We present the computational results of gravimetric geoid over Colorado using airborne gravity data. The gravity data and digital elevation model were provided by IAG JWG2.2.2 with the collaboration of National Geodetic Survey. Here we show the gravimetric geoid based on the two Stokes-Helmert approaches, i.e. the classical approach (Moritz, 1980) and UNB approach (Vanicek et al., 2013).

Keywords: Geodesy, Gravity and Geoid, Airborne gravimetry