



## **Airborne gravimetry in coast area and its role on the refining of the regional geoid**

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Airborne gravimetry using Chinese airborne gravimetry system is flown in a 300km by 400km coast area in recently three years. The gravimetry is summarized and its processing method is introduced firstly. The results indicate that the standard derivation of the crossover errors is about 2.1mGal at the resolution of 10km, the accuracy of the  $5[U+F0A2]$   $5[U+F0B4]$   $5[U+F0A2]$  mean gravity anomaly are about 4.0mGal and 3.0mGal respectively compared with the satellite altimetry gravity data and the seaborne gravity data under moderate turbulence. The accuracy of the regional geoid using airborne gravity data in the surveying area is improved to 10cm, whereas it is about 20cm computed from EGM2008 model.