

Geophysical Research Abstracts,  
Vol. 10, EGU2008-A-07262, 2008  
SRef-ID: 1607-7962/gra/EGU2008-A-07262  
EGU General Assembly 2008  
© Author(s) 2008



## **Quality assessment of BGI gravity data in Iran**

**A.R Saadat**

Physical Geodesy Department, Geodesy and Land Surveying Management, National Cartographic Centre, PO Box 13185-1684, Airport Blvd., Meraj Ave, Tehran, Iran  
(r\_saadat@yahoo.com / Fax: +98 21 66071000 / Phone: +98 21 66071001)

For several problems in geodesy, this is necessary to use gravity data in the surface of the earth for calculating numerical integrals. Therefore, the precision of this gravity data is very important. Errors in gravity data imply changes in the numerical results. The Bureau Gravimetric International (BGI) data is one of the most important gravity data that is used for solving geodesy problems, but their precision is not clear, absolutely. In this study, I has estimated the precision of BGI gravity data in Iran by four methods. These methods are Kriging, Spline Tension, Spline Regularized and Inverse Distance Weighted. The results have been tested with absolute gravity data that are exist in Iran.