

# ***Interactive comment on “Application of particle swarm optimization for gravity inversion of 2.5-D sedimentary basins using variable density contrast” by Kunal Kishore Singh and Upendra Kumar Singh***

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Received and published: 24 January 2017

To Editor In-chief Journal of Geoscientific Instrumentation Methods and Data System

Dear Sir First of all authors thankful to Anonymous Referee #1 who has given his opinion of acceptance for publication with some minor revision. We appreciate and welcome his comments. The reply of the comments is given below: 1. Yes, this gravity anomalies are inverted and prepare a model using PSO technique considering the 2.5D structure. 2. From line 170, the words velocity updating is deleted on page 8. 3. The resolution of the thin layers depends on the quality of the datasets. If you

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have still some more suggestions needs for improvement of our manuscript, we would appreciate and welcome for inclusion.

With kind regard Upendra

Please also note the supplement to this comment:

<http://www.geosci-instrum-method-data-syst-discuss.net/gi-2016-10/gi-2016-10-AC7-supplement.pdf>

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Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., doi:10.5194/gi-2016-10, 2016.