

Interactive comment on “Remote sensing data processing by multivariate regression analysis method for iron mineral resource potential mapping: A case study in Sarvian area, central Iran” by Edris Mansouri et al.

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Dear Editor I should say thank you very much on a behalf of the authors of “Remote sensing data processing by multivariate regression analysis method for iron mineral resource potential mapping: A case study in Sarvian area, central Iran.” for your kindly praised and your nice recommendations. We added our new descriptions about your recommendations in red color in our manuscript and below. Kind regards, Faranak Feizi - I suggest a brief section that gives information on the relevance of remote sensing techniques in resource management with good references. Answer: some sen-

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tences added for this comment.

- For me, the extensive discussion on Multivariate Regression Analyses gives a different impression to the paper though. This can be summarised. Answer: some sentences added for this comment.

- The conclusion section basically focus on multivariate regression analysis (MRA). However, MRA should be a means to an end and not an end itself, please briefly discuss the results of your work in relation to the potential of MRA and remote sensing for iron mineral resource potential mapping as demonstrated for your study area. Answer: some sentences added for this comment.

- I also observe that the referencing is not in conformity with the journal style. Please check this out. Answer: All references are corrected. - line 36-37-38. "The main objective of this manuscript is to use multivariate regression analysis (as a MPM method) to pixel values of Aster satellite image from north-east part of the study area to identify new iron deposits in other parts." I suggest that you mentioned this after the brief review of literature in this section. Answer: This part is corrected

- Line 79- 80. "Linear regression is used for modeling mineral prospectivity in the Sarvian area". The statement is not appropriate here. It can go to literature review section. Answer: This sentence is corrected. - Line 102. "In regression analysis, some criteria are required to review. These criteria are as follows:" This is not important here. Kindly remove. Answer: These parameters have calculated and presented in table 3 - Line 54-175: I suggest that you change this section to methodology [Study Area and Data collection and analysis]. Answer: All heading are corrected - Line 155-173: What do you mean by regression analyses in the study area? I thought we should be looking at result and discussion section. You may wish to change this section to RESULT AND DISCUSSION. Answer: This part is corrected.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/se-2017-25/se-2017-25-AC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2017-25, 2017.

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