

Interactive comment on “Continuous wavelet transform and the Euler deconvolution method and their application to magnetic field data of Jharia coal field, India” by Arvind Singh and Upendra Kumar Singh

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Dear authors!

I am glad to revise the high quality manuscript. The topic is focused on the fundamental issues for mapping the coal seam and locating lineaments. The application of CWT and Euler deconvolution methods for the estimating the sources of magnetic anomalies are very important for geological researches. The work really presents the novel results. Generally the paper is understandable but sometimes the logical structure is lost. The first part is Abstract. Where is Introduction with the literature overview? Part 4

C1

“Modelling and Inversion of Gravity and Magnetic data” seems like the part of the state of the problem. May be better to move this part to the Introduction which is lost. In Part 5 “Application of CWT to Synthetic Magnetic Anomaly” isn’t understandable if this is the authors example or theoretical. A lot of parts – 1...9. Use for instance Results and Discussion.

Other comments:

1. Line 338-339. Please, use one definition, for instance Remanent Magnetization.
2. Table 2. Please, use in the table and everywhere in the text – magnetic susceptibility instead susceptibility. Use Si unit in 10⁻⁵ for the volume magnetic susceptibility and 10⁻⁸ m³/kg for mass-specific magnetic susceptibility
3. Line 638-639 in Conclusion – I’m not sure that this is good idea to use literature in Conclusion part.

Best regards

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