

Review of: "Groundwater Potential Zone Assessment Using Remote Sensing, Geographical Information System (GIS), and Analytical Hierarchy Process (AHP) Techniques in Fogera Woreda, South Gondar Zone, Ethiopia"

Abid Rather¹

¹ University of Kashmir

Potential competing interests: No potential competing interests to declare.

Comments

The article tries to analyze the groundwater potential distribution using multicriteria analysis by integrating various criteria influencing groundwater potential like geomorphology, slope, soil, geology, etc. The methodology adapted has been widely used on different spatial scales in the past literature and is hence suitable for this type of work. I have read the article, and here are some comments from my side in order to improve certain aspects of the work.

1. In describing the thematic layers, the authors should give an area percentage of different zones in the study area. E.g., For the soil layer, the authors should mention the area percentage occupied by different slope classes.
2. The preference or the ranking given to different classes in a thematic layer should be clearly stated.
3. In section 3.1.2, the term "vulnerability" is not suitable. The authors may reframe this sentence and also clearly state the basis of ranking different soil classes with regard to GW potential.
4. There is a typographical error in 3.1.3. Correct it.
5. Section 3.1.4 has a grammatical error in line 2. You should use "groundwater potential" rather than "GW zone."
6. Elaborate on equation 1.
7. Grammatical mistake in line 3 of section 3.1.7.
8. Grammar error in the last line of 3.1.8.
9. Grammar error in sec. 3.1.10.
10. Grammar error in line 6 of sec. 3.3.
11. There is no proper validation of the study. The study should be validated using an ROC curve generation in order to analyze the reliability of the study.
12. Overall, the study has adopted the right approach, but the language needs improvement. There are a lot of grammar mistakes in the text which need to be corrected through a language check.