

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"

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Potential competing interests: No potential competing interests to declare.

1. Interesting paper. I recommend publication after several corrections are needed, see below.
2. The soil and geologic maps at a scale of 1:250,000 seem too large;
3. The drainage density is defined as the total length of stream divided by the map area, with units of L/L²; please correct this in section 3.1.4.
4. The lineament density equation is incorrectly written in section 3.1.5; define all the variables in the equation.
5. In section 3.1.8, rewrite the equation for the topographic wetness index (TWI) and define the variable A_s . How does the TWI relate to groundwater potential? The larger the TWI, the larger the TWI, and vice versa?
6. How does land use land cover (LULC) relate to groundwater potential?
7. How were the weights in Table 2 assigned? By experts?
8. Section 3.3 is the most significant in the paper: it shows how the weighted criteria are assigned to maps to calculate the groundwater potential. However, how does the value GWPZ in section 3.3 relate to the classification categories: Excellent, moderate, poor, and very poor?
9. I recommend a major revision of the paper.