

Earth Surf. Dynam. Discuss., referee comment RC1
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Comment on esurf-2022-67

Anonymous Referee #1

Referee comment on "Reveal the relation between spatial patterns of rainfall return levels and landslide density" by Slim Mtibaa and Haruka Tsunetaka, Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2022-67-RC1>, 2022

In the introduction part, the authors should clearly indicate the research gap and the novelty of this research.

The research object of this paper is mainly shallow landslides. It is recommended to highlight the uniqueness of the research object in the abstract and introduction.

In Figure 1b, the north arrow is missing.

In Figure 3, the contour of the study area should be added. The color bars in Figure 3 lack labels and units. Please check similar issues in other figures.

The discussion part needs to be reorganized.

Figure 4c: "TD 5.68 & MLD = 1.14" should be changed to "TD = 5.68 & MLD = 1.14".

Line 255: The 100-year rainfall anomaly was higher in the low landslide-density grid cell in P3 (Fig. 5i) than in the low landslide-density grid cell in P1 (Fig. 5c) (< 1.5 times). Why could the comparison of the 100-year rainfall anomaly explain the substantial difference in landslide density between the two grid cells (≈ 110 times for TD).