

Interactive comment on “The 4.2 ka event: multi-proxy records from a closed lake in the northern margin of the East Asian summer monsoon” by Jule Xiao et al.

Anonymous Referee #2

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In the paper, Xiao et al. present new paleoclimate records from Hulun Lake, to show the dry event at the interval of 4230-3820 cal. Yr BP. The paper is well written. I only have two suggestions for minor revisions.

1. Page 6, line 149-151. The sentences are misleading. It is surprise to see that annual evaporation is 6 times the annual precipitation. If it is true, there is no lake in the region. The region should be desert. Please check if the annual evaporation 1400 ~1900mm is the total amount of the lake catchment.
2. Page 13, line 363. Changes in the precipitation of the lake region in the summer half-year totally follow the northward migration of the EASM rainbelt (Fig. 4). To some

C1

extent, this sentence is misleading. It is true that Fig 4 could show the northward migration of summer precipitation. However, the figure does not really show the linkage between this northward migration and the precipitation in Hulun Lake region. I suggest adding a figure of summer precipitation in the Hulun Lake region, and then it will be easy to understand the precipitation increases in JJA, following the northward migration of the EASM rainbelt.

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C2