

## ***Interactive comment on “Lena River Delta formation during the Holocene” by D. Bolshiyarov et al.***

**E. Taldenkova**

etaldenkova@mail.ru

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The authors' idea about considerable sea-level highstands (above its modern position) in the Laptev Sea during the Holocene contradicts to the evidence from shelf sediment cores about sea-level rise in the course of the Holocene transgression substantiated by AMS14C datings and composition of marine microfossils, at least for the time period prior to 6-5 ka (Bauch et al., 2001; Taldenkova et al., 2005, 2008). I found actually no explanation in the text of the submitted paper about the causes of these sea-level rises. Do the authors account for tectonic movements? In this context, I also can't understand the meaning of the following passage of the text (p. 4102) - "At present the period of deposit erosion is coming to an end and Bykovskaya Channel is already in an estuary development phase due to the sea level rise on the eastern side of the Delta.

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In the west, in the Olenek Channel mouth, sea level decrease continues (Ashik et al., 2010)."

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