

Reconstructing dynamics of the Baltic Ice Stream Complex during deglaciation of the last Scandinavian Ice Sheet

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General comments:

The manuscript is now better written, easier to follow and more concise. The title is also better now. I still think that it is a bit difficult to filter the role of uncertain observations on maps but on the other hand I consider this point to be minor, not really affecting the outcomes or conclusions made. The main concerns I have raised earlier have been adequately noticed and answered. The fact that there has been simultaneous mapping within a part of the study area by Greenwood et al. 2024 does not seem to create marked contradictions but rather they work well together to improve our understanding of glacial dynamics and their role in future modelling approaches. Some minor specific comments and technical corrections are presented below.

Specific comments:

L34-35: Using the word amplitude in this context (Fig 1D) sounds odd to me (meaning relative height)

L77: Zeise, 1889; after Stephan, 2001) <> wrong reference style? - should be Zeise, 1989 after Stephan, 2001)

Table 1: Referencess > References

L95+L108: reference to Greenwood et al. should be 2024 (ok in the reference list)

L138 v L139: terms glaciofluvial and glacifluvial are both used (also later in the manuscript), please prefer glaciofluvial.

Fig. 5B: I still don't recognize these as ribbed moraines (see also Greenwood et al 2024) but this is a minor interpretative point in the wider context of the study)

Fig. 4: "Light and dark grey indicate onshore and offshore areas respectively" <> should be so that light grey are offshore (the deepest water)?

L275 (Fig. 5G): "This overlapping arrangement, seen here, is not common across the study area." <> good point here – I think this Landsort Deep is a fascinating and enigmatic feature and the overwhelming presence of interpreted glacial lineations (also in Greenwood et al 2024) raises questions about their origin.

L317: > can be inferred

L345: Ice-marginal meltwater channels in the study are ... (remove: in the study)

L404 Discussion: reference to work by Greenwood et al 2024 fits nicely here (but note the wrong year in the text reference)

L525-527: We confirm this ... but also identify a Swedish ice source ... <> I think the authors should refer here also to the findings by Greenwood et al. 2024

L566-568: Same here – reference to Greenwood et al 2024 needed or write differently to avoid using the reference in conclusions