

## ***Interactive comment on “Shelf–Basin interaction along the Laptev — East Siberian Seas” by Leif G. Anderson et al.***

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We are grateful for the referee's constructive comments as well as the kind words. Referees comments are in red.

Referee #1 My only concern is with the estimate made on page 9 lines 25 - 30. A shelf water contribution with salinity of 36 would imply very large productions of ice in winter from a shelf region that has very low salinities (in general). Is this possible? I also wonder if the ESS has silicate concentrations of 25  $\mu\text{mol/l}$ . Perhaps the silicate concentrations would increase within a dense plume spreading offshore and in intimate contact with the bottom sediments? I encourage the authors to elaborate a little on both of these points. Regarding the concern on high salinity and silicate we will expand this discussion with examples of some data that has been collected historically and by us.

C1

minor wording issues: p.5 line 21 omit "over" after "spans" p.6 line 10 remove "in" before station. p. 8 line 8. Remove "down" after water deeper. We change the wording issues noted.

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C2