Review:

EGU-2026-1396: Temporal evolution of the Petermann Ice Shelf estuary constrained by remote sensing observations

Overall Statement:

The resubmitted manuscript has addressed all my concerns from the first round of revisions. Below, I list several small changes that should be made before the manuscript is considered for publication. This is a great piece of work that the authors should be proud of and a useful contribution to the cryosphere scientific field.

Larger Comments:

Grounding zone and grounding line both used in the manuscript. Please stick with only one of these expressions.

Specific Revisions:

Abstract:

Li 21: Suggest to change "thermal erosion" to "melting".

Li 28: Based on the last round of revisions, I thought that it was inconclusive that seawater intrusion should reduce bottom melting of the surface channel. Please change this text to read:

"… and resultant flow reversal which shifts the dominant melt pattern from vertical incision to later erosion."

Introduction:

Li 34 – 37: According to Hill et al. (2018) https://tc.copernicus.org/articles/12/3243/2018/tc-12-3243-2018-discussion.html, Steensby lost its ice shelf already and the remaining ice shelves are as follows: Petermann, Ryder, 79 N, L Bistrup Brae/Storstrømen (the downstream ice shelf).

Please amend this text accordingly.

Li 62 – 67: Please support this sentence with the following reference:

Geyer, W. R., & MacCready, P. (2014). The estuarine circulation. *Annual review of fluid mechanics*, *46*(1), 175-197.

Li 67: "enhance ice-shelf instability" is slightly awkward. Suggest to reword to "contribute to destabilizing the ice shelf" or something similar.

Data and methods:

Li 162 – 164: Please add another sentence here that further describes how this shift should, in theory, overlay the same ice from one year to the next. As it is written, it is not entirely clear.