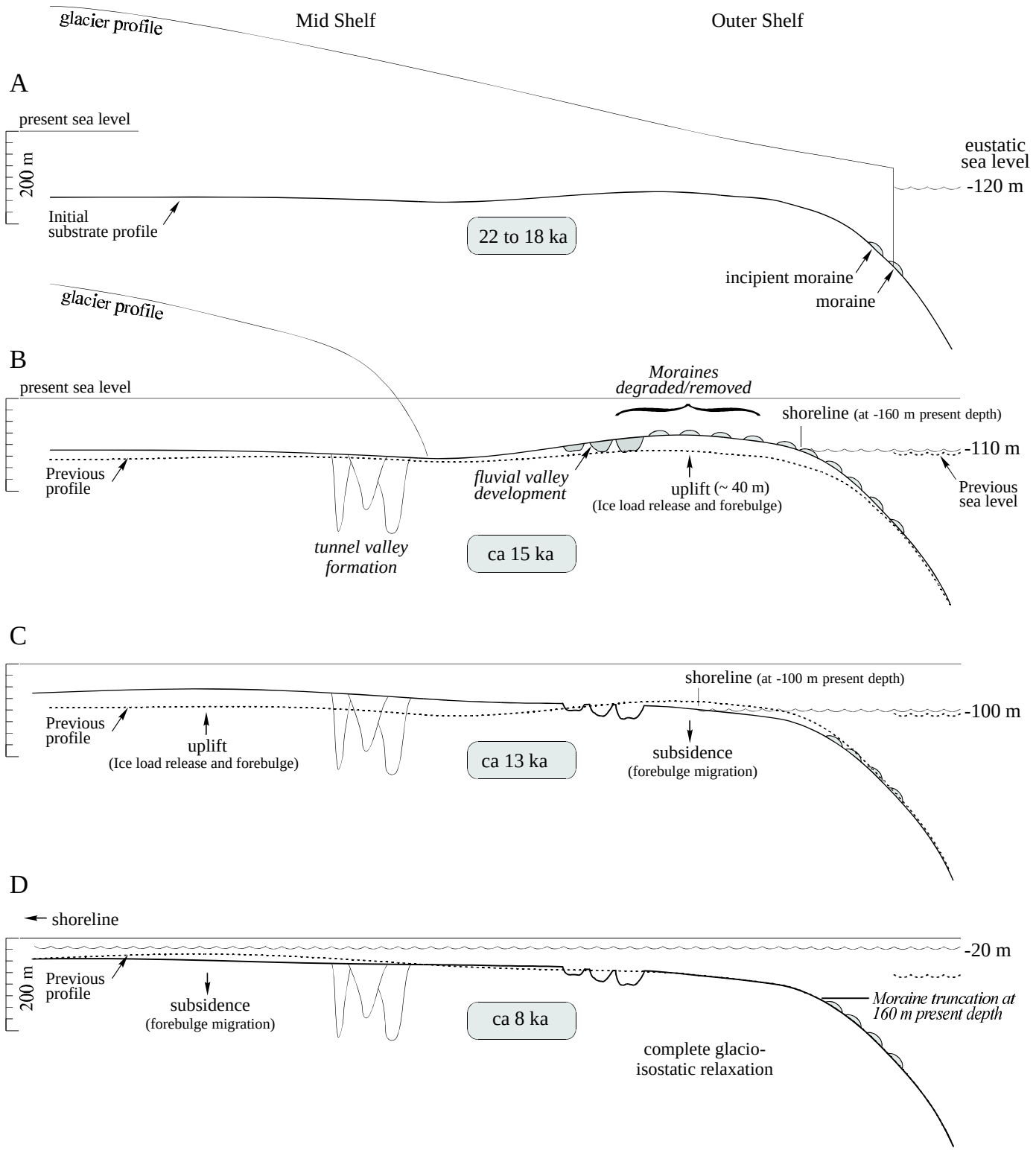

Figure 35. Hypothetical model to explain formation of the moraine field during a Late Wisconsinan retreat from the shelf break (alternative to pre Late Wisconsinan age). Moraines formed during ice retreat from the shelf break to a mid shelf stillstand position where the regime changed and subglacial meltwater channels dominated. Truncation/removal of the moraines above a present water depth of 160 -170 m along with eroding of deep fluvial valleys to this depth can be explained through a mechanism of outer shelf uplift during the eustatic low stand. This can have resulted from their position on the forebulge which subsequently experienced subsidence associated with landward migration of a glacial forebulge. This model does not explain the sharp upper limit of the (sub-littoral) Adolphous Sand Fm. at 105 m present water depth.