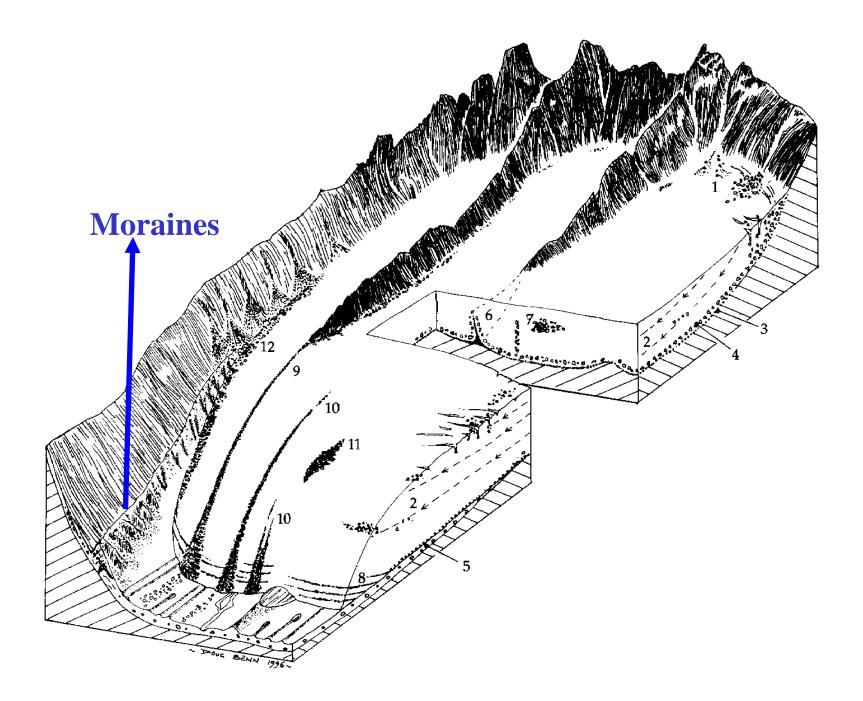
Glacial depositional processes 2

Glacial depositional processes 2

Basics of ice-marginal deposition processes

Depositional processes at the glacier margin







Local sediment contrasts

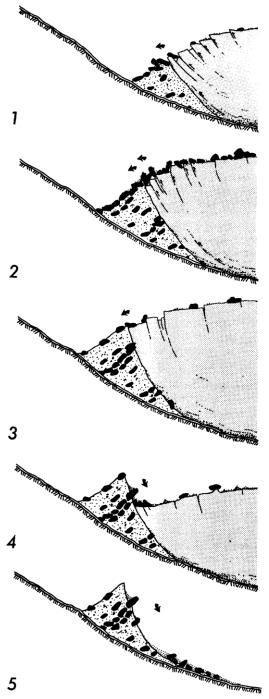


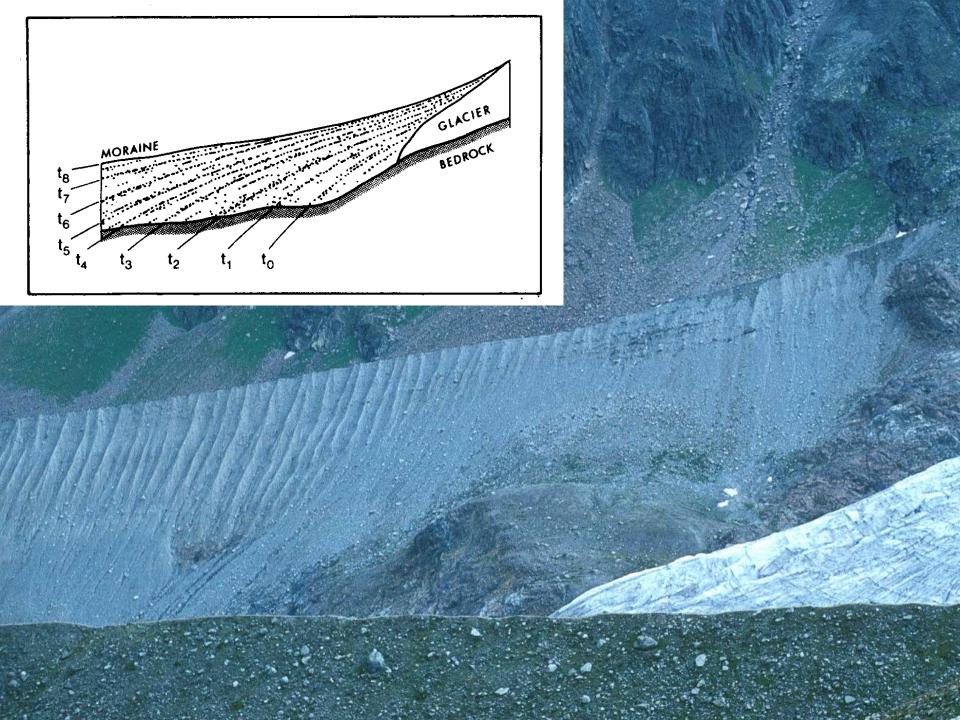


Moraines formed by dumping











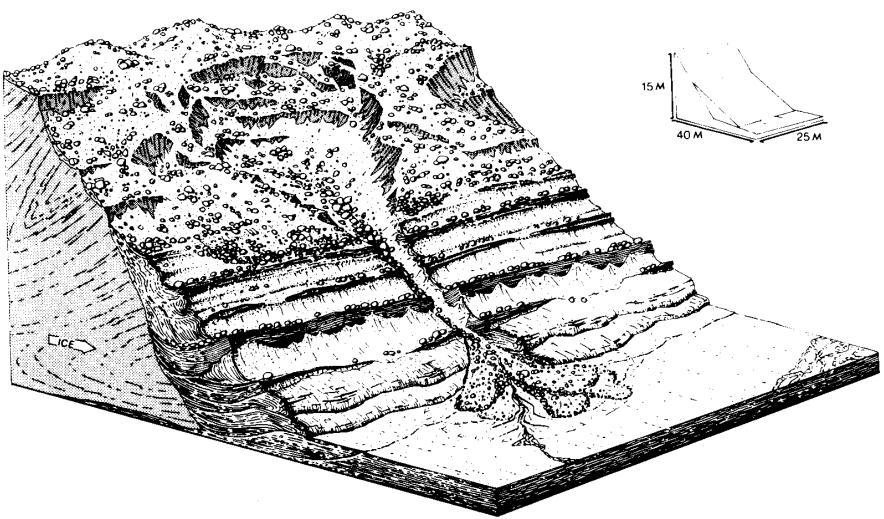
Moraines formed by pushing













Moraines formed by basal freezing

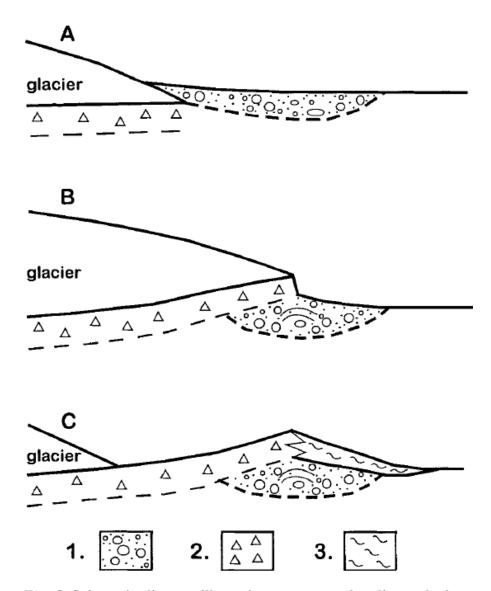


Fig. 5. Schematic diagram illustrating a conceptual sedimentologic model for the formation of the moraines observed on Irma Hill, north-central Wisconsin. The sequence of formation is discussed in the text; Unit 1 is sorted ice-marginal sediment; Unit 2 is basal debris-rich ice or frozen subglacial till; Unit 3 is debris-flow sediment. Figure adapted from Ham (1994).





Moraines usually forms when glacier advances

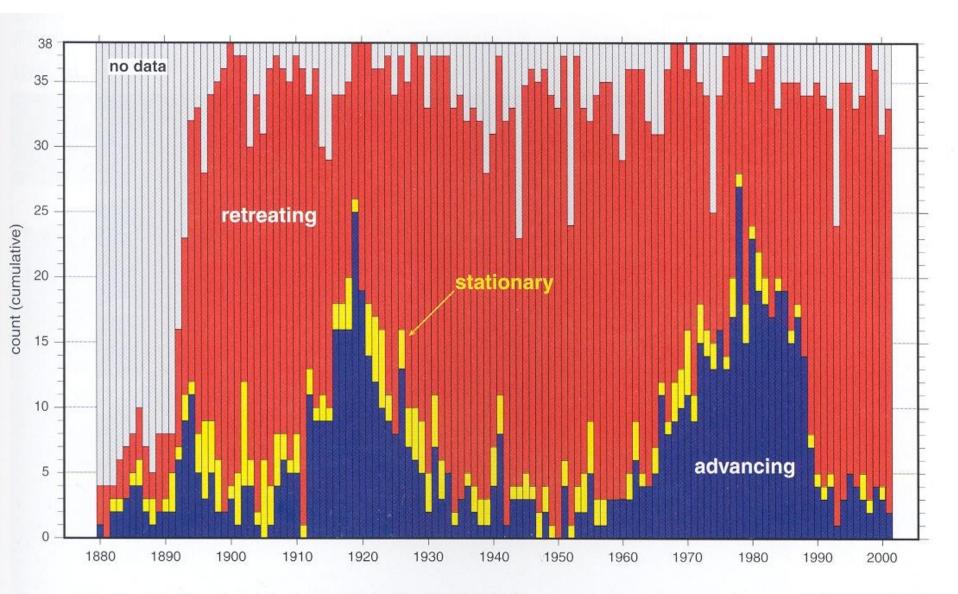


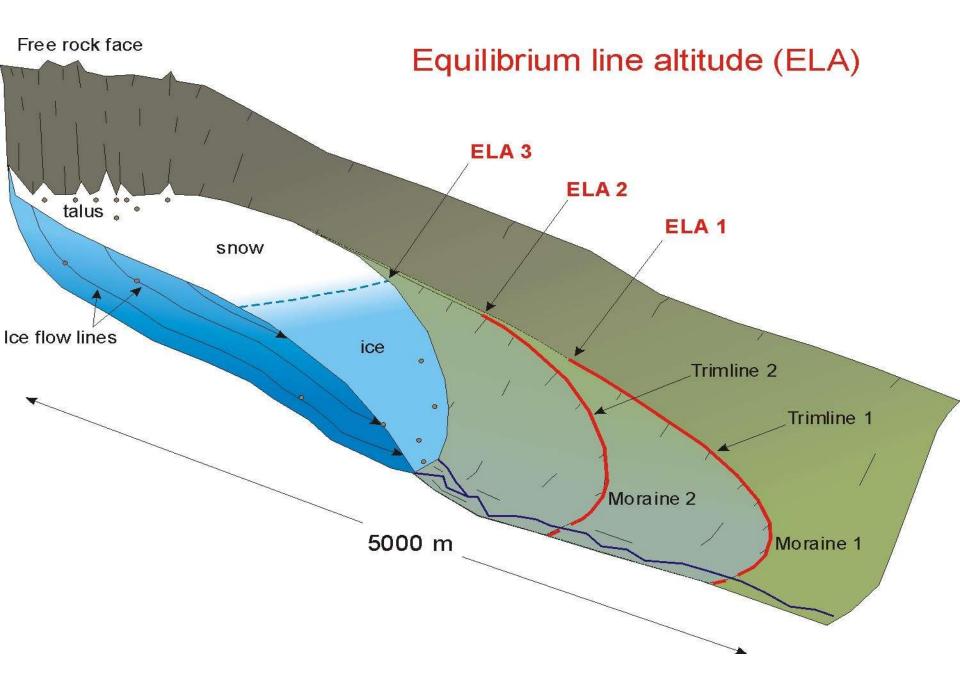
Figure 2.1a: Yearly classification of glacier length behaviour (advancing, stationary and retreating) of 38 selected glaciers (cf. Table 2.1).



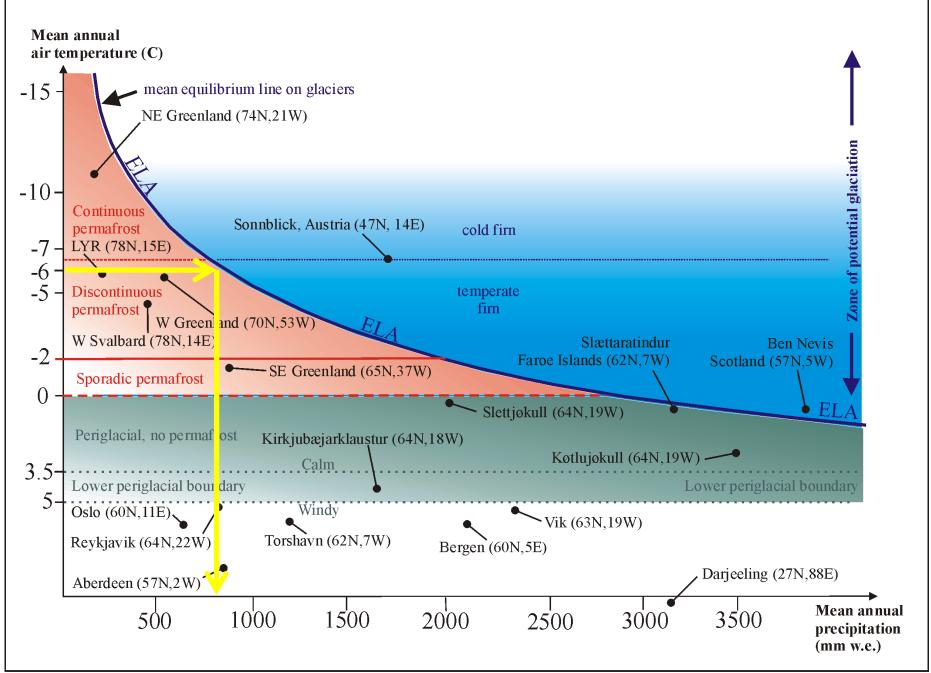




Significance of moraines









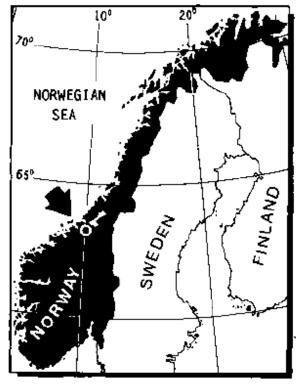


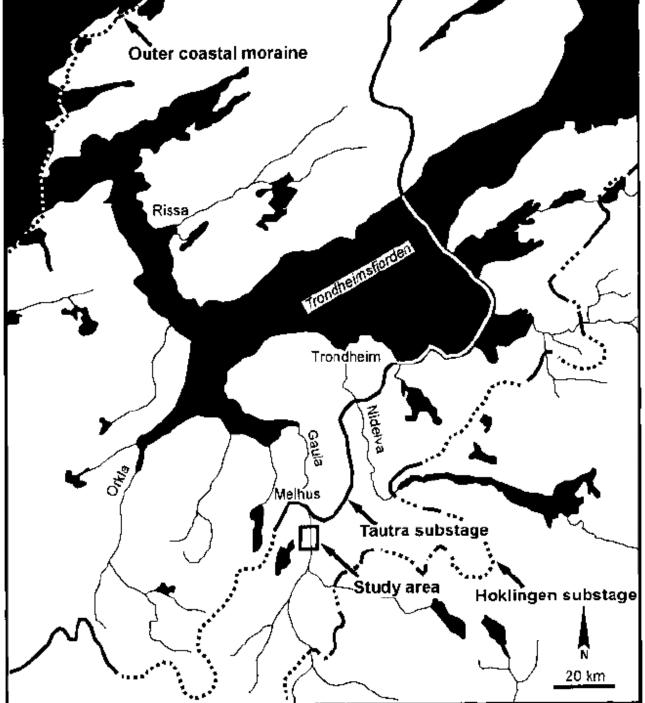




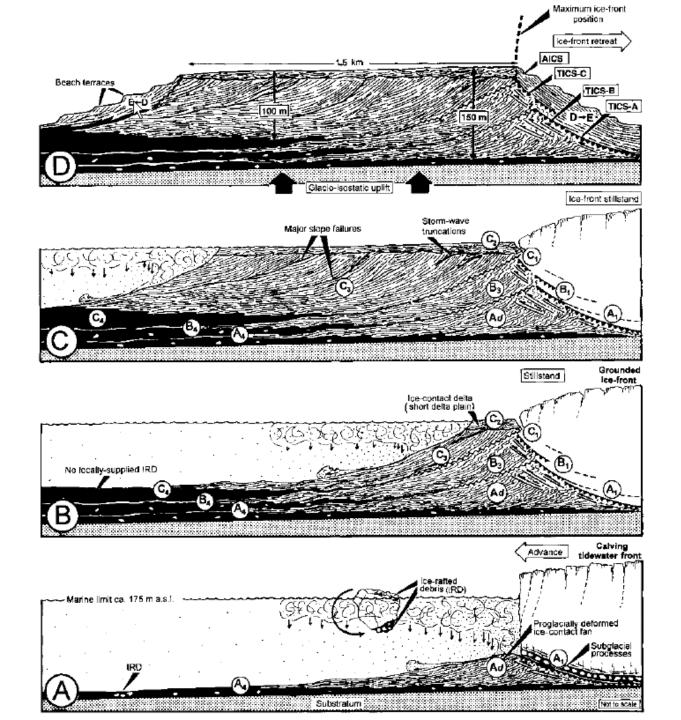
Moraines formed in water





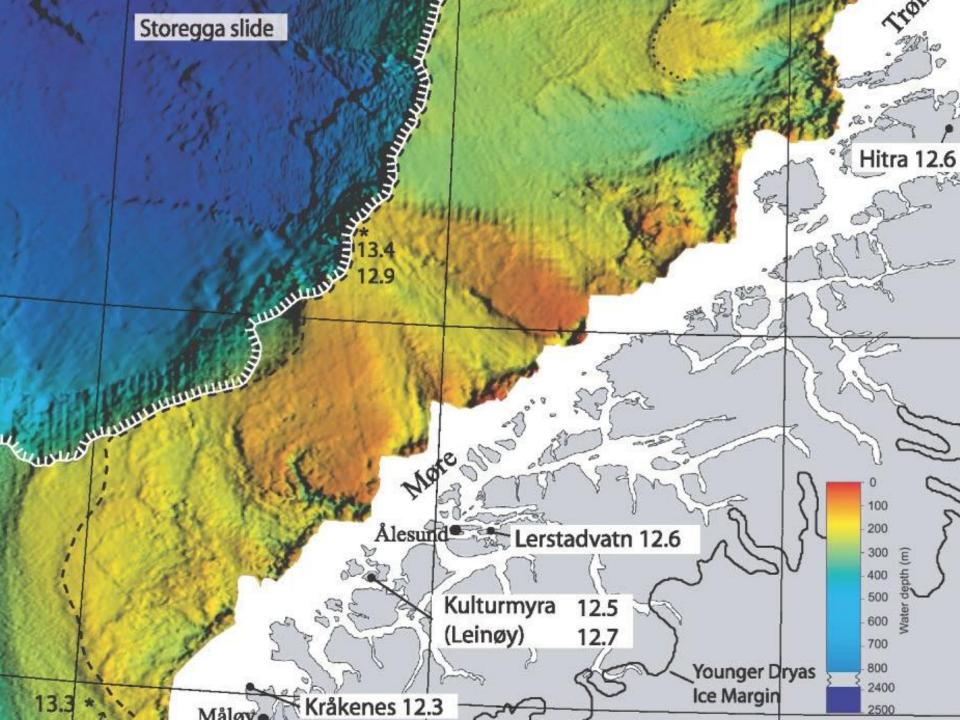


I. Lønne 1999



I. Lønne 1999





Gardermoen airport

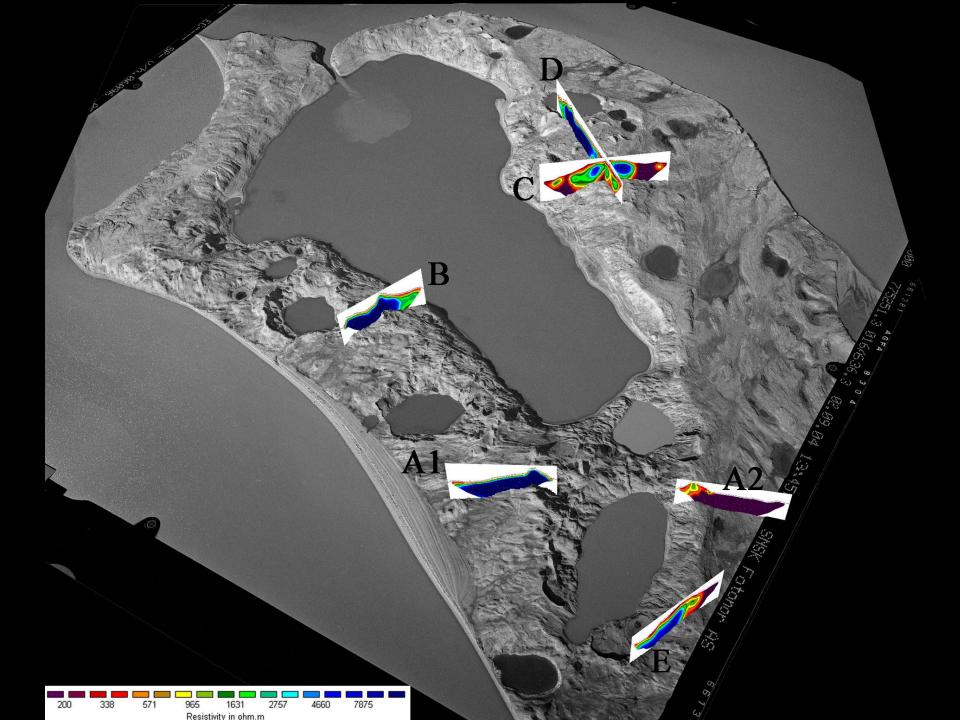
Sub- or englacial meltwater deposition





Deposition in glacial lakes





Sediments from isdammed lake at Vestre Lovenbreen, Svalbard

Ekstramarginal meltwater deposition







