

Electronic Appendix B for the article: "High-resolution LiDAR mapping of glacial landforms and ice stream lobes in Finland" by Putkinen et al. (2017), Bulletin of the Geological Society of Finland, vol. 89, issue 2.

Data model of GTK's Glacier Dynamic database (GDdatabase)

1. Glaciofluvial deposits

- 1.1 Esker
- 1.2 Interlobate esker
- 1.3 Ice marginal glaciofluvial deposit
 - 1.3.1 Delta
 - 1.3.2 Sandur
 - 1.3.3 Proximal ice-contact deposit
- 1.4 Extramarginal deposit
- 1.5 Littoral deposit
- 1.6 Glaciofluvial erosional area
- 1.7 Empty hole*
- 1.8 Buried glaciofluvial deposit

2. Glacially lineated terrains (area)

- 2.1 Fluted terrain (area)
- 2.2 Drumlin upland (area)

3. Glacially lineated terrains (lines)

- 3.1 Drumlin
- 3.2 Rock Drumlin
- 3.3 Through valley or crescent through
- 3.4 Fluting
- 3.5 Megafluting
- 3.6 Pre-crag

4. Moraines

- 4.1 Ice marginal moraines (area)
 - 4.1.1 Large diamicton-dominated dump-moraine, often in end moraine complexes (area)
 - 4.1.2 De Geer moraines (area)
 - 4.1.3 Minor recessional moraines (area)
- 4.2 Ice marginal moraine (single form)
 - 4.2.1 Large diamicton-dominated ridges, often in end moraine complexes (single form)
 - 4.2.2 De Geer moraine (single form)
 - 4.2.3 Minor recessional moraine (single form)
- 4.3 Hummocky moraines (area)
 - 4.3.1 Subglacial hummocky moraine (active ice) (area)
 - 4.3.2 Ice contact hummocky moraine (passive/partly active, pro-glacial/ice frontal) (area)
- 4.4 Ribbed moraines (area)
 - 4.4.1 Hummocky ribbed moraines (area)
 - 4.4.2 Rogen moraines (area)
 - 4.4.3 Minor ribbed moraines (area)
- 4.5 Hummocky moraine (single form)

- 4.5.1 Subglacial hummocky moraine (active ice) (single form)
 - 4.5.2 Ice contact hummocky moraine (passive ice/proglacial) (single form)
- 4.6 Ribbed moraine (single form)
 - 4.6.1 Hummocky ribbed moraine (single form)
 - 4.6.2 Rogen moraine (single form)
 - 4.6.3 Minor ribbed moraine (single form)
- 4.7 Empty hole*

5 Covering Deposits

- 5.1 Covering littoral deposit
- 5.2 Covering diamicton
- 5.3 Empty hole*

6. Channels (polyline)

7. End moraine complexes (area)