

Supplementary Table 1: Three example calculations of melt frequency and melt feature percentage in an exemplary 50-cm annual layer. Though the total thickness of melt layers is equal in A and B, melt frequency differs, and despite A and C exhibiting the same melt frequency, the melt feature percentage varies. These example results show how the two approaches highlight different aspects of melt intensity within a profile, i.e. melt frequency and thickness-derived melt-affected mass.

Example Profile	Number of melt layers in 50-cm annual layer	Total thickness of melt layers (cm)	Melt frequency (a ⁻¹)	Melt feature percentage (%)
A	3	5	3	10
B	1	5	1	10
C	3	2	3	4