



*Supplement of*

## **Review article: Melt-affected ice cores for polar research in a warming world**

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*Supplementary Material.*

**Table S1.** 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 ( $\text{a}^{-1}$ )	Melt feature percentage (%)
A	3	5	<b>3</b>	<b>10</b>
B	1	5	<b>1</b>	<b>10</b>
C	3	2	<b>3</b>	<b>4</b>