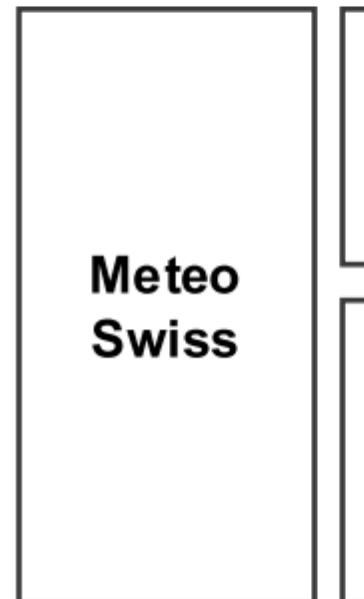


# miniML-MB: for each measurement site $i$ separately, and over $N$ mass balance years

(a) Input:



## Temporal aggregation

- Annual ( $n = 2$ )
- Half-yearly ( $n = 4$ )
- Seasonal ( $n = 8$ )
- Monthly ( $n = 24$ )
- Opt. seasonal ( $n = 2$ )

(b) For example, with half-yearly,  $n = 4$ :

year	mean T Summer	mean T Winter	sum P Summer	sum P Winter
1961	5	-4	300	550
...	..	..	...	...
2021	3.2	-2.5	250	590

Input  $X \in \mathbb{R}^{N \times n} : n \in [2, 24]$

(c)

ML model  
**miniML-MB**

$\hat{y}$ : predicted PMB  $\in \mathbb{R}^N$

