



Supplement of

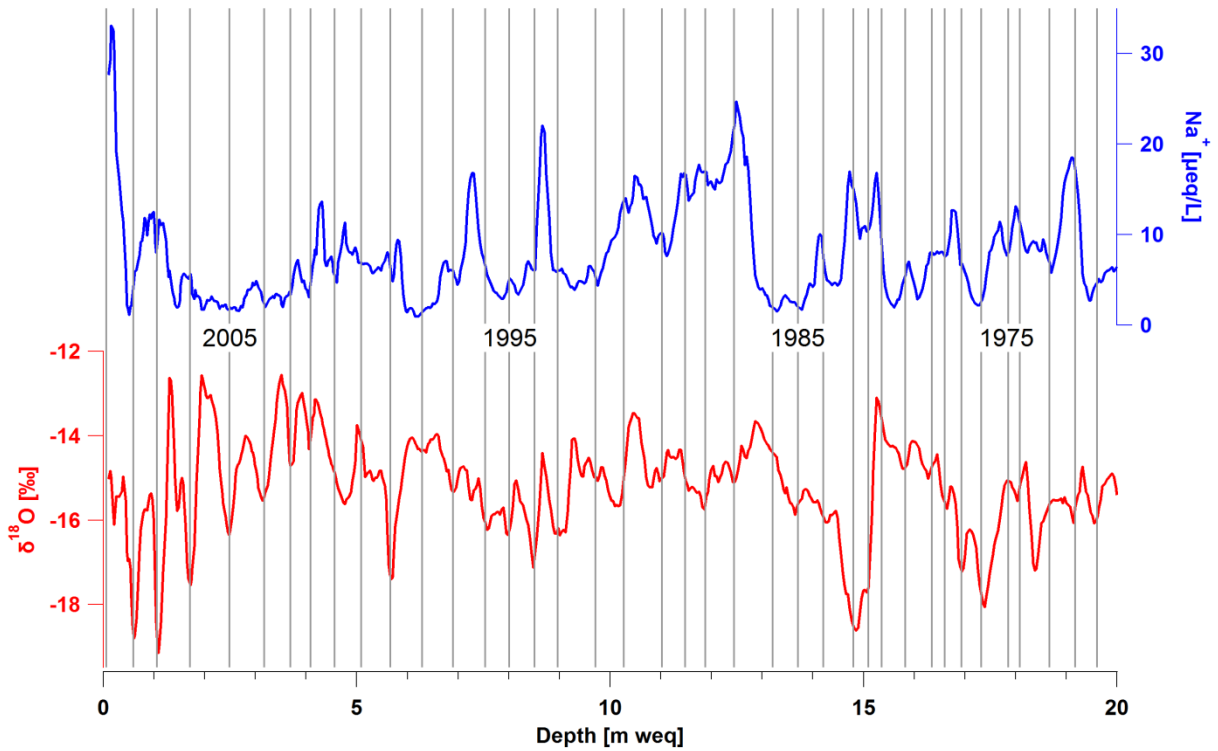
800 year ice-core record of nitrogen deposition in Svalbard linked to ocean productivity and biogenic emissions

I. A. Wendl et al.

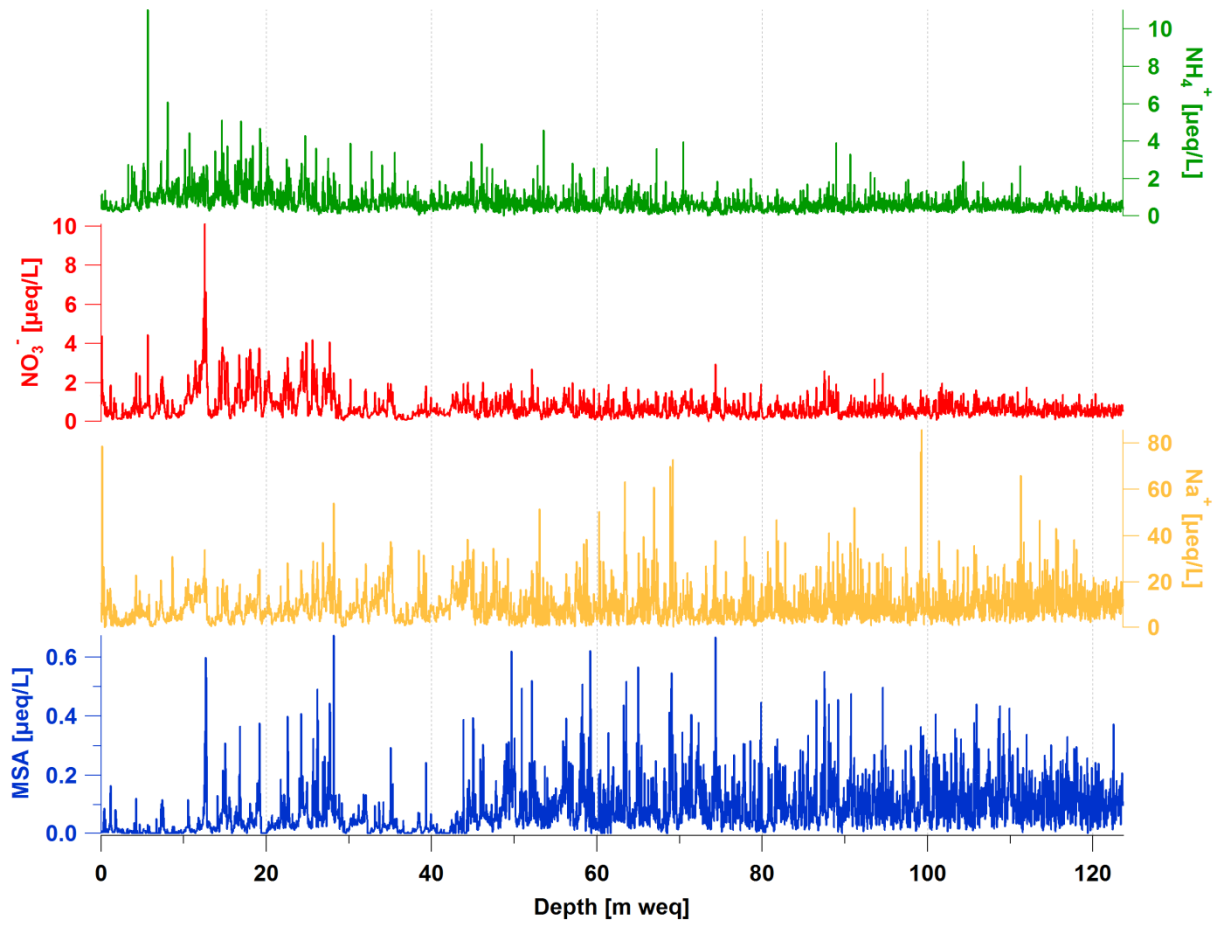
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1 Supplementary material

2 Here, an example for the annual layer counting (ALC) for the core section between 0 and
3 20 m weq (Figure S1) is displayed, followed by the raw data for the ionic species (Figure S2)
4 and the melt percent (Figure S3) of the Lomo09 ice core along depth in m weq.



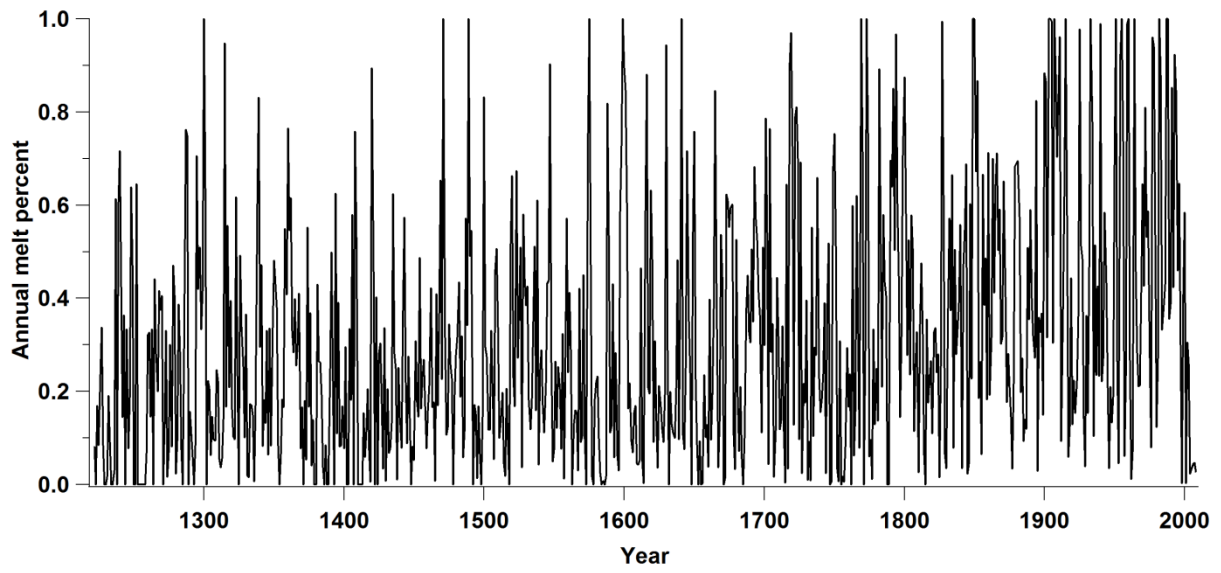
5
6 Figure S1 Example for annual layer counting (ALC) for the core section between 0 and
7 20 m weq using the records of $\delta^{18}\text{O}$ and Na^+ . Data are five-point-moving averages. Grey
8 vertical lines indicate the single counted years; numbers within the graph give the resulting
9 year.



1

2 Figure S2 Raw data of concentrations of MSA ($=\text{CH}_3\text{SO}_3^-$), Na^+ , NO_3^- , and NH_4^+ of the
3 Lomo09 ice core versus depth in m weq.

4



1

2 Figure S3 Annual melt percent of the Lomo09 ice core versus age.