

Dear editor,

We thank you for your positive appreciation of our responses to the reviewers of our submitted manuscript, and are ready to upload the revised manuscript that we have prepared and which addresses all comments from the reviewers.

5

Here are our answers to your remarks:

- For the distribution of our database, we propose to upload a zipped file on the PANGAEA data publisher web site with (i) one file consisting of information data for each site (e.g. latitude, longitude, covered period, resolution) and processed isotopic data (mean, standard deviation); (ii) one file with raw ice core data at sub-annual scale; and (iii) one file with precipitation data.
- We chose to compare the first three seasonal cycles to the mean seasonal amplitude as the smallest period covered by one of our sub-annual ice core records is 7 years. This choice of three years is a compromise between the length of the existing records, the year-to-year variability of the seasonal amplitude, the variability of the accumulation rates, and the expected loss of amplitude in the upper part of the firn.
- Finally, we have revised the captions of Tables 6 to 8 to make them shorter.

We hope that you will enjoy the revised manuscript, which has been significantly improved thanks to the constructive comments of our reviewers.

20 Best regards,

Sentia Goursaud