



Corrigendum to “Greenland temperature and precipitation over the last 20 000 years using data assimilation” published in *Clim. Past*, 16, 1325–1346, 2020

Jessica A. Badgeley¹, Eric J. Steig^{1,2}, Gregory J. Hakim², and Tyler J. Fudge¹

¹Department of Earth and Space Sciences, University of Washington, Seattle, WA, USA

²Department of Atmospheric Sciences, University of Washington, Seattle, WA, USA

Correspondence: Jessica A. Badgeley (badgeley@uw.edu)

Published: 13 April 2021

This corrigendum provides a replacement for Eq. (4), Fig. 13, and Table 1 from the original article.

The denominator of Eq. (4) should have used the variable y (instead of v as used in the published version). The correct version of this equation was used to calculate the results; only the printed version of Eq. (4) was incorrect.

$$CE = 1 - \frac{\sum_{i=1}^n (v_i - y_i)^2}{\sum_{i=1}^n (y_i - \bar{y})^2}. \quad (4)$$

In the legend of Fig. 13, “TraCE21ka” has been corrected to “TraCE-21ka”.

In Table 1, the last entry in the “Oldest” column had an extra trailing zero, which has been removed. In the “Citations” column, the last entry should have been “7, 8, 16” rather than “16, 17”. As citation 16 is a duplicate of citation 1, citation 16 has been removed, and citation 17 has been corrected to citation 16 throughout the table.

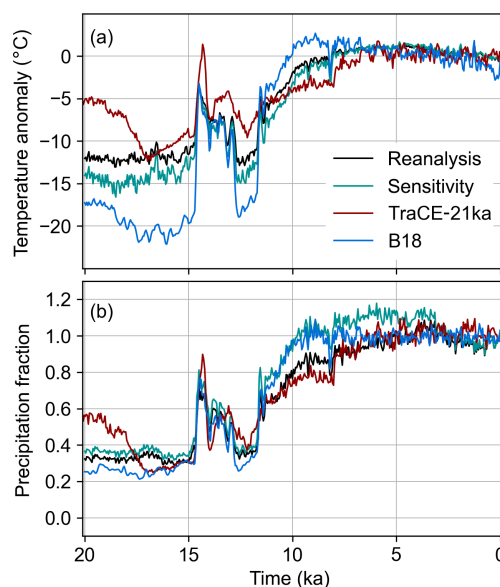


Figure 13. Temperature (a) and precipitation (b) reconstructions from our main reanalysis (black), our sensitivity scenarios S4 and high P (green), TraCE-21ka (red), and B18 (blue) (Buizert et al., 2018). Each reconstruction is averaged to a 50-year time resolution and averaged over a spatial domain in the Kangerlussuaq region, defined by the latitude–longitude box 65 to 68.7° N and 48.5 to 52.5° W, the center of which is located at the star in Fig. 11a. Temperature anomalies and precipitation fraction are defined with reference to the mean of 1850–2000 CE.

Table 1. Metadata for the water isotope ($\delta^{18}\text{O}$) and accumulation (accum) records referenced in this study. “NBI” refers to the Niels Bohr Institute data access site (<http://www.iceandclimate.nbi.ku.dk/data/>, last access: 24 June 2019), and “Pangaea” refers to the Pangaea data access site (<https://www.pangaea.de/>, last access: 20 August 2019). Latitude and longitude are in units of decimal degrees (dd), and dates are in thousands of years before 1950 CE (ka).

Ice-core name	Latitude (dd)	Longitude (dd)	Variables	Oldest (ka)	Youngest (ka)	Source	Citations
Agassiz	80.7	286.9	$\delta^{18}\text{O}$	11.64	−0.02	NBI	1
Camp Century	77.18	298.88	$\delta^{18}\text{O}$	11.64	−0.02	NBI	1
NEEM	77.45	308.94	$\delta^{18}\text{O}$	> 20	−0.0108	NBI	2, 3, 4
			accum	> 20	−0.04	NBI	5
NGRIP	75.1	317.7	$\delta^{18}\text{O}$	> 20	−0.04	NBI	6
			accum	> 20	−0.02	this study	7, 8, 9, 10, 16
GISP2	72.97	321.2	$\delta^{18}\text{O}$	> 20	−0.04	NBI	11, 12
			accum	> 20	−0.0375	Pangaea	13
GRIP	72.6	322.4	$\delta^{18}\text{O}$	> 20	−0.02	NBI	14
			accum	> 20	−0.02	this study	7, 8, 9, 10, 16
Renland	71.27	333.27	$\delta^{18}\text{O}$	11.64	−0.02	NBI	1
Dye3	65.18	316.18	$\delta^{18}\text{O}$	> 20	−0.02	NBI	1, 15
			accum	11.64	0	this study	7, 8, 16

¹ Vinther et al. (2009), ² Dahl-Jensen et al. (2013), ³ Schüpbach et al. (2018), ⁴ Bo Vinther, personal communication, 2019, ⁵ Rasmussen et al. (2013), ⁶ Andersen et al. (2004), ⁷ Vinther et al. (2006), ⁸ Rasmussen et al. (2006), ⁹ Andersen et al. (2006), ¹⁰ Svensson et al. (2006), ¹¹ Grootes and Stuiver (1997), ¹² Stuiver and Grootes (2000), ¹³ Cuffey and Clow (1997), ¹⁴ Johnsen et al. (1997), ¹⁵ Dansgaard et al. (1982), ¹⁶ This study.