Site	Reference	Method	Sample type	Time period	rBC or *EC concentrations* (ng g^{-1}); average (if specified, median) $\pm 1\sigma$ and time range in parentheses
Svalbard					
Various	Clarke and Noone (1985)	Optical	Snow	1983	*30.9 (median: 33.5)* $\pm$ *16.0*
Lomonosovfonna	Forsström et al. (2009)	Thermal-optical	Snow	Spring 2007	*18.8 (median: 6.6)* $\pm$ *29.4*
Ny-Ålesund	Doherty et al. (2010)	Optical	Snow	2007, 2009	*13 (median)* $\pm$ *9*
Ny-Ålesund	Aamaas et al. (2011)	Thermal-optical	Snow	Winter 2008	*6.6* $\pm$ *4.3*
Various	Forsström et al. (2013)	Thermal-optical	Snow	2007–2009	*11.4–13.8 (medians)*
Holtedahlfonna	Ruppel et al. (2014)	Thermal-optical	Ice core	1700–2004	*23*(< *1850*)– *36 (1850–1950)* – *45*(> *1950*)
	Ruppel et al. (2017)	Thermal-optical	Ice core	2005–2015	*10.4*
Lomonosovfonna	This study	SP2	Ice core	1222–2004	0.5 (< 1850), 1.9 (1851–1950), 2.9 (> 1951)*
		SP2	Ice core	2004–2011	0.5 (median: 0.3) $\pm$0.4
Greenland					
D4	McConnell et al. (2007)	SP2	Ice core	1788–2002	1.7 (< 1850) – 4 (1851–1951) – 2.3 (> 1952)*
NEEM 2011-S1	Sigl et al. (2013)	SP2	Ice core	78–1997	2.9 (< 1850) – 4.9 (1851–1951) – 3.0 (> 1952)*
Summit 2010	Keegan et al. (2014)	SP2	Ice core	1742–2010	1.0 (< 1850) – 2.2 (1851–1951) – 1.1 (> 1952)*
Canadian Arctic					
Devon Island	Zdanowicz et al. (2017)	SP2	Ice core	1810–1990	1.5 $\pm$ 3.2 (whole record) – 3.6 (1910–1920)
Swiss Alps					
Fiescherhorn	Jenk et al. (2006), Gabbi et al. (2015)	Thermal-optical	Ice core	1660–2002	*15*(< *1850*)– *26 (1850–1950)* – *20*(> *1950*)