



*Corrigendum to*  
**“Brief communication: Impact of the recent atmospheric circulation change in summer on the future surface mass balance of the Greenland Ice Sheet” published in The Cryosphere, 12, 3409–3418, 2018**

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In the mentioned paper, values of integrated anomalies of summer shortwave fluxes ( $\text{W m}^{-2}$ ) in Table 3 were incorrect. The correct table is as follows with corrected values ( $-4.2$  and  $-5.8$ ) in bold italics.

**Table 3.** Mean GrIS integrated anomalies of summer energy fluxes ( $\text{W m}^{-2}$ ) and summer surface 2 m temperature ( $^{\circ}\text{C}$ ) compared to 1980–1999. Anomalies from GCM-forced simulations are given as averaged. Anomalies greater than the 1980–1999 standard deviation (i.e. greater than the inter-annual variability) of the simulation of MAR forced by unaltered ERA-Interim are shown in bold.

	Temperature increase ( $^{\circ}\text{C}$ )	ERA-Interim 1980–1999 (MARera)	Forcing ERA-Interim 2000–2016 (MARera2k)	Mean of the 3 GCMs
JJA mean	+0	0.0	<b>3.7</b>	0.0
SWD ( $\text{W m}^{-2}$ )	+1	–2.7	0.9	–0.7
	+1.5	– <b>4.2</b>	–0.6	–2.4
	+2	– <b>5.8</b>	–2.2	–3.9
JJA mean	+0	0.0	<b>3.2</b>	0.0
LWD ( $\text{W m}^{-2}$ )	+1	<b>4.8</b>	<b>8.1</b>	<b>4.5</b>
	+1.5	<b>7.2</b>	<b>10.6</b>	<b>7.3</b>
	+2	<b>9.7</b>	<b>13.2</b>	<b>9.4</b>
JJA mean absorbed	+0	0.0	<b>5.4</b>	0.0
SWD ( $\text{W m}^{-2}$ )	+1	1.9	<b>7.5</b>	2.0
	+1.5	<b>3.0</b>	<b>8.8</b>	2.8
	+2	<b>4.0</b>	<b>10.0</b>	<b>3.9</b>
JJA mean	+0	0.00	<b>1.24</b>	0.00
T2m ( $^{\circ}\text{C}$ )	+1	<b>0.97</b>	<b>2.20</b>	<b>1.07</b>
	+1.5	<b>1.45</b>	<b>2.68</b>	<b>1.62</b>
	+2	<b>1.93</b>	<b>3.15</b>	<b>2.01</b>