Erratum to: Observed and Modelled Convective Mixing-Layer Height at Dome C, Antarctica

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We have discovered a calculation error in the evaluation of the history scale Q represented by Eq. 3 (Sect. 4.2). We apologise for any confusion or inconvenience that may have arisen. The miscalculation does not affect the general performance of the diagnostic relation proposed in the same section, so that the conclusions remain almost unchanged.

After the correction, the values of α (Eq. 4) and of the determination coefficient (R^2) retrieved by the linear regression showed in Fig. 8 become 11.20 ± 0.30 and 0.86, respectively. The corrected values of the parameters listed in the last column (Diagnost relation) of Table 2 are $mae = 33$, $rmse = 47$, $FB = 0.19$, and $IoA = 0.76$. Figures 7 and 8 with the correct calculation of Q are shown below.

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Fig. 7 Mixing-layer heights computed with Eq. 4 (*red full line*), and the GB model with fixed (*green full line*) and variable (*blue full line*) w_s values for 3 January 2012. *Dots* represent the experimental h data estimated from sodar measurements

Fig. 8 Scatter plots of measured h against the dimensional group B (**a**) in Eq. 4, and against the h values (**b**) estimated by the same equation. The *full line* in panel (**a**) and (**b**) represents the linear fit through origin and the bisector, respectively