Figure 1. Annual snow accumulation rate, elevation (a) and ion concentrations in surface snow collected during five seasons (b-i). Annual snow accumulation rate is obtained from field bamboo stick measurements, updated to 2016 from Ding et al. (2011). The closed diamond, open circle, closed triangle, cross and closed circle denote ion concentrations in the years 1999, 2011, 2013, 2015, and 2016, respectively. Note that a base-10 log scale is used for the y-axis of Cl (b), Na$^+$ (c), and Mg$^{2+}$ (h).

Figure 2. Correlation plots of Cl, SO$_4^{2-}$, K$^+$, Mg$^{2+}$, Ca$^{2+}$, and NO$_3^-$ versus Na$^+$ in surface snow. The black solid line represents the seawater dilution line, with slopes of typical ions versus Na$^+$ ratios in seawater (in μeq L$^{-1}$). The concentration of NO$_3^-$ in seawater is too variable among the seas, and a representative ratio of NO$_3^-$/Na$^+$ cannot be presented. Note that a base-10 log scale is used for ion concentrations.