



Figure S2: Map showing the ice thickness of the Chongce ice cap with drilling sites.

Core 1 (133.8 m) and Core 2 (135.8 m) to bedrock and Core 3 (58.8 m) were drilled in 2012. Core 4 (216.6 m) and Core 5 (208.6 m) to bedrock were drilled in 2013. Inset picture shows the bottom section of Core 2. The ice thickness was measured by ground penetrating radar with relatively high accuracy. For instance, the thickness measured at the drilling site of the 216.6 m core is ~214 m.