Description of Additional Supplementary Files

**Supplementary Data 1.** LA-ICP-MS zircon U-Pb ages of Palaeo-Neoarchaean granitoids from the Baishan nucleus, North China Craton. Data collection procedures are outlined in Supplementary Information.

**Supplementary Data 2.** Zircon SHRIMP U-Pb ages and O isotopes of Palaeo-Neoarchaean granitoids from the Baishan nucleus, North China Craton. Data collection procedures are outlined in Supplementary Information.

**Supplementary Data 3.** Zircon Lu-Hf isotopic data of Palaeo-Neoarchaean granitoids from the Baishan nucleus and standard materials. Data collection procedures are outlined in Supplementary Information.

**Supplementary Data 4.** Compilation of individual Archaean zircon Hf isotopes from the North China Craton and other cratons. Samples in grey are heterogeneous with p values <0.05. Sources of data are listed below the table.

**Supplementary Data 5.** Compilation of Archaean zircon O isotopes from the North China Craton and other cratons. Sources of data are listed below the table.

**Supplementary Data 6.** Mean values of Archaean zircon Hf isotopes from the North China Craton. Samples in grey are heterogeneous with p values <0.05. Sources of data are listed below the table.

**Supplementary Data 7.** Major and trace element concentrations of 3.2-2.5 Ga potassic granites from the Baishan nucleus, North China Craton. Data collection procedures are outlined in Supplementary Information. Major elements are reported in wt.%, trace and REE concentrations are reported in ppm.