

## U-Pb age of the Yangkou UHP metamorphic complex in the Su-Lu belt, China

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U-Pb dating using SHRIMP was performed for the Yangkou UHP complex, in the Su-Lu belt, China. Three groups of zircon separates from coesite-eclogite, UHP metagranitoid, and streaky gneiss show a similar age, ca. 750 Ma. The geochemical and petrologic study indicates that the Yangkou UHP metamorphic complex was formed as an intermediate to felsic igneous complex, and then suffered UHP metamorphism 600-650C at 3 GPa, followed by the amphibolite-facies retrogression during the exhumation stage. Jahn (1998) reported Sm-Nd age of 220 Ma from Yangkou eclogite which is concordant to other eclogite ages in the Su-Lu UHP belt. These data suggest that 750 Ma means a timing of a solidification as an igneous complex, and that it was happened in the Yangtze craton.