Abstract Details

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Title: TO Trace Ancient Flood Water Level along Nanjing Cliff Bank of the Changjiang River

Abstract:

Abstract: 4~5 remnant marks of ancient flood water level have been along cliff bank of the Changjiang River in the area of Nanjing Mufu Mountain. Preliminary conclusions are drawn as followings by analyzi records of modern flood water level and paleoflood, sedimentary strat dating and geological literatures: (1) The first and second ancient floo level which are 5~6m above the modern Changjiang River water surf an elevation of 8.5m and 9.5m, they are paleoflood remnant which ec height of modern Changjiang River flood water level, as present flood also reach this height ,even though it is rare to flood over ,because of been disengaged from present Changjiang River water surface , the reappearance period of the flood regime may be around 10~50 years The third ancient flood water level is 10.5m high in elevation which is 0.3m higher than the one of 100 years period of flood reappearance. According to historical records of the Changjiang River flood, the reappearance of this third paleoflood level may be 100~200 years. Th paleoflood level has also indicated that the height of flood protection the Changjiang River is appropriate. (3) The highest ancient flood wa is 12.8m high in elevation equivalent to flood periods during Holocene sea level time. In order to obtain the exact date of paleoflood water l some works needed to carry out for next study, such as ,to trace and of related Palaeoflood slackwater deposits and sediment strata, to do detail analyze on sedimentary structures, distribution and contact rela carbon dating, comparatively study with surrounded region and etc.

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