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## Channel planform migration architecture of meandering rivers

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Despite large numbers of literatures on both modern and ancient depositional systems of fluvials, analyzing the dynamic geomorphology evolution of meandering rivers remains a challenge. Attempts have been done to reconstruct the characteristics of palepchannel by understanding the planform migration architecture of channel and evolution of dynamic geomorphic process. Morphological analysis on the planform migration structure of meandering river is an important basis for the reconstruction of evolution of paleochannel. Besides, it is a significant method for restoration of rivers through the important historical record of migration architecture. This article mainly examines the channel planform migration architecture of meandering rivers, combined with modern satellite image technology from Google Earth and ACME Mapper, 12 meanders have been characterized with a new way of utilisation of new depictive parameters and 6 kinds of conventional structures are proposed: Symmetrical expansion, upstream rotation expansion, downstream rotation expansion, symmetrical constriction, upstream rotation constriction architecture. Besides, more complex structures could be obtained through these combinations and there are still many new patterns. Therefore, there are certain limitations on the method of describing the structural characteristics, and thus general application of planform migration structures to rivers still needs further studied in the future.

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