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Application of a Sediment Information System to the Three Gorges Project on Yangtze River, China

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Based on survey and analysis of a huge of observed entrance sediment transport data and the research results of physical and numerical modeling of Three Gorges Reservoir on the Yangtze River, a sediment information system was designed. The basis of the sediment information system includes spatial data and properties of geographic elements, and various documents involved to the Three Gorges Project. Database and knowledge base are constructed as the information bank. The running environment is constructed by the general control program to realize requirements about various sediment information. The system chooses the window software as the system software. The techniques of graphical user interfaces and groupware geographic information system are applied in this system. In this phases the emphases of the system are development of document system, map system, presentation system. Cross section system of the Three Gorges Project was also attached. For further improvement of the system, a prepared interface of decision supporting sub-system is finished.