

WebGIS-based Information Management System for Geohazards Triggered by Wenchuan Earthquake

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Abstract: More than thousands of geohazards triggered by Wenchuan Earthquake for the complexity of characteristics, which seriously threatened the lives and properties of local people in the disaster areas. In order to analysis the distribution regularity and reduce the shecondary geohazard, it needs an effective method to manage the abundance of data from field investigation as soon as possible. Combined with analysis of spatial data model and modeling theory, this paper used the Unified Modeling Language (UML) to establish the object-oriented geodatabase, and finally developed the WebGIS-based information management system for geohazards triggered by Wenchuan Earthquake (WIMS). Based on the powerful ability for managing spatial data of GIS, database and internet development technology, the system is an online GIS providing map and data services, likewise improving spatial data editing and speed of map visiting. Besides, the system is not only able to be a reference for the geohazard managers, but also a common platform for other people to understand the threats from natural hazards.

Key words: Wenchuan earthquake; secondary geohazard; unified modeling language; WebGIS

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