

数字地质调查与填图技术方法研究

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摘要: 数字区域地质调查是地质调查主流程信息化迫切需要解决的问题, 也是世界先进国家区域地质调查工作的普遍趋势。笔者根据世界先进国家在野外地质调查与填图采集技术方面的研究现状, 结合我国实际, 基于3S技术野外地质调查与填图信息化的新一代野外数据采集(器)技术, 从改变传统的填图手段, 提高研究精度、研究程度, 加快研究(工作)周期和改变成果表现形式的技术方法研究着手, 对野外地质调查与填图数字化采集技术、数据模型、技术流程实现的工具与方法等进行了初步探讨。

关键词: 数字区域地质调查与填图; 数字填图; 野外数据模型; 地质图数据模型

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Digital geological survey and mapping techniques

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Abstract: Digital regional geological survey is a problem that needs urgent solution in the main informatization course in geological survey and mapping. Based on the present state of the digital field geological survey and digital mapping techniques and mapping data capturing techniques in developed countries, coupled with the actual conditions of China, the authors discuss the field geological survey and mapping digital data capturing techniques, data model, technical flow chart and tools and methods of applying digital mapping techniques for the purposes of changing the conventional mapping means, raising the research accuracy and degree, accelerating the cycle of research work and changing the form of presentation of the research results.

Key words: digital regional geological survey and mapping; digital mapping technique; field geological data model; geological map data model