

Research regarding basin hydrological information collection technology using artificial satellite utility technology

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Effective utilization of remote sensing, such as artificial satellite, as a basic information collection technology, which is important for the national land management, is drawing people's attention. This research aimed the effective development of collection technology of basin hydrological information and river management information, and examined the utilization technology of basin hydrological information and internal river channel information, which can obtain sensors of not only artificial satellites, but also airplanes and helicopters.

As a result, we clarified that artificial satellite utilization technology isn't a replacement of some existing tools, such as field research, aerial photography and its interpretation, and by using the technology combined with many kinds of platforms and surface research, its effectiveness will be increased, and by calculating effective index based on satellite images, it is possible to obtain the wider-scale surface information in terms of basins.

Keyword : the national land management, remote sensing, utilization for river management, basin hydrological information extraction