

text, we extract the change information of land use by interpreting the RS image data, and detect the change of land use of Jiaonan city by combining GPS and GIS. We use 3S technology to analyze the land change of Jiaonan city within the study period. Based on the analyze result, we can get the data and basic information for the government agencies in managing and exploiting the land of Jiaonan city, as well in urban planning and construction.

Compared with traditional method, the method of land use investigation which based on 3S has a number of advantages: 1)Using the high-tech 3S, it doesn't require the investigators having high drawing skills; 2) low labor intensity, high efficiency and low cost; 3) the result is stored in the form of digital map, which is easy to preserve, carry, duplicate, modify and share; 4) it's easy to establish land information system, which makes the dynamic updating and monitoring of land resources a reality. Traditional method of land use investigation cannot meet the requirement of modern land management any longer. Based on the high resolution satellite image, using 3S technical means to investigate the county-level land use is rapid, economic and accurate, which has wide application prospects. Extend this method to forest, agriculture and urban planning department, and use it in investigation items such as forest resources investigation, crops classification and monitoring urban land use and so on, which will also have good application value.

5. References

- [1] Zhou Hua-mao, Chen Tao, Yang Jian, Ren Guo-ye, Wei lai, "Study on Application of Spot5 Satellite Image Orthophoto Correction to the Updating Investigation of Land Use," *Southwest China Journal of Agricultural Sciences*, vol.20, no.1, pp.87-90, 2007.
- [2] Zhang Feng, Feng Jing, "Discussion on the Comprehensive Application of 3S Technology to the Updating Investigation of Land Use," *Resources Environment & Engineering*, vol.20, no.3, pp.311-313, 2006.
- [3] Miao Jian, "Application of 3S Technology in Land Use Updating Investigation," *Nanfang Guotu Ziyuan*, vol.11, no.1, pp.61-63, 2007.
- [4] Wan Ling-feng, Lin Hui, "A 3S-Technology-Based Investigation about the Change of Land Use," *Journal of Zhuzhou Teachers College*, vol.12, no.5, pp.14-17, 2007.
- [5] MA Hong-bin, XIAO Jian-lin, LIU Yan, ZHAO Ya-hong, "3S Technique Application into Change Curvey of Land Use Situation," *Science of Surveying and Mapping*, vol.33, no.3, pp.195-206, 2008.
- [6] Cheng Wei, Zeng Sheng, "Application of 3S in Updating Earth Utilization Investigation," *Jiangxi Coal Science & Technolohy*, vol.4, no.1, pp.66-67, 2008.
- [7] Bao Wen-dong, Qi Gui-hua, Chen Xu, "The Method and Study of Land Use Investigation Updating Based on Spot5 High-Resolution Satellite Image," *Journal of Shangdong Agricultural University(Natural Science)*, vol.38, no.2, pp.311-316, 2007.
- [8] Zhang Zhen-guo, "Brief Discussion of the Revision of the New Overall Plan for the Land Utilization—A Case of Jiaonan city," *Master Dissertation of Shangdong Agricultural University*, 2008.
- [9] Han Chunjian, Wu Kening, Feng Xinwei, Lv Qiaolin, Fu Qiaolin, "The Updating Investigation of Land use Information at County Level Based on "3S" Technology," *Chinese Agricultural Science Bulletin*, vol.22, no.1, pp.560-564, 2006.