

## **WATER BALANCE ANALYSIS BASED ON REMOTE SENSING IN TURPAN BASIN**

Wu, B.

### **ABSTRACT:**

The water balance analysis is the core of the water resource evaluation and water supply and demand forecast, and is also the important method to control rationally water resources. Because of the deficiency of the hydrological observation data in Turpan basin, the traditional water balance analysis method has its limit when applied to the water resources management. Here this study is to propose a new water balance analysis method, which using the Evapotranspiration estimated with remote sensing, observation data and investigation data. As a case, the new method is applied to analyze the water resource status in Turpan basin and three counties from 2006 to 2008. Simultaneously through reviewing the water balance results it discussed the water resources questions and gave some suggestions in water saving direction in Turpan basin.