FUTURE WATER CYCLE



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http://hydro.iis.u-tokyo.ac.jp/indexJ.html

Remote Sensing for Terrestrial Environments; Environmental Monitoring and Modeling

Department of Civil Engineering

Development of water environment assessment

methods using remote sensing imagery

Our study is to develop a water environment assessment methods such as measurement of water quality, evaluation of soil salinity, measurement of land cover using unmixing method and Drought Map (2000-2013), using remmany basins to contribute better understanding and solving recent problems related to water environment.



Evaluation of soil salinity



Measurement of Water quality

 Vegetation
 Urban Area / Bare Soil
 Water



Measurement of land cover using



3 Meeting with stakeholders



Drought Map (2000-2013) Development of ideal watershed management in Monsoon Asia

We will evaluate water supply and demand of local areas in the basins by using two approaches, optimal water use based on water-crop-economic model and water usage based on local values. We also collaborate with a variety of stakeholders in the region considering their interest concerning water use. The local knowledge and modern technology combined together will work towards building a healthy watershed and water use beneficial for both urban and rural areas.

1 Local field survey



② Development of evaluation schemes

