

## **Research regarding hydrological circulation analysis method using the National Land Information**

### **[ Point ]**

We developed a distribution constant type new basin hydrological circulation analysis model, which adopted a module, possible to set parameter based on the GIS attribute information of the digital national information and others, objecting river basins in mountain forest areas. As a result applied to the Kusaki dam basin and the Shiobara dam basin, high relevance is observed according to the hydrological balance and rainfall-runoff. It is expected, to be used as a base of a hydrological circulation model for natural basins, including large and medium-sized river basins, because its model structure and constant number setting method are simpler than general distribution constant type outflow models.

Keyword : mountain forest area, basin hydrological circulation, distribution constant type outflow model, GIS, remote sensing