

Applicability evaluation of CIA due to river and lake

*yusuke hataya¹, SEIKI KAWAGOE¹, Shiho Yabusaki², KEN Suzuki¹

1. fukushima university, 2. Research Institute for Humanity and Nature

Water resources management must be further attention because extreme weather condition generate to predict climate change. However, a water area have the various regional characteristics. Therefore a universal way may not also be able to indicate the effect management. If categorized basin tool is developing to obtain characteristic, it is possible to choose suitable management technique in water areas. We tried to develop database to manage basin as chemical and geographical information. In this research, Water factors (Chemical condition, land use condition, soil condition and geological condition) between basins (rivers and reservoirs) were compared to develop data base. Especially, we applied to Chemical Index of Alteration (CIA) as chemical condition factor. As results, It was possible to obtain the basin area scale to apply CIA.

Keywords: CIA, water resource, Numerical geographic information