

### Relationship between shallow groundwater quality and land use in Kagawa, Japan

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$\text{NO}_3^-$ -N concentration of shallow groundwater was generally low (lower than several  $\text{mg L}^{-1}$ ) under paddy fields area, and relatively high (higher than several  $\text{mg L}^{-1}$ ) under upland fields area in Kagawa, Japan. Decrease of  $\text{NO}_3^-$ -N concentration under paddy fields area located at lower reaches of upland fields area was observed.

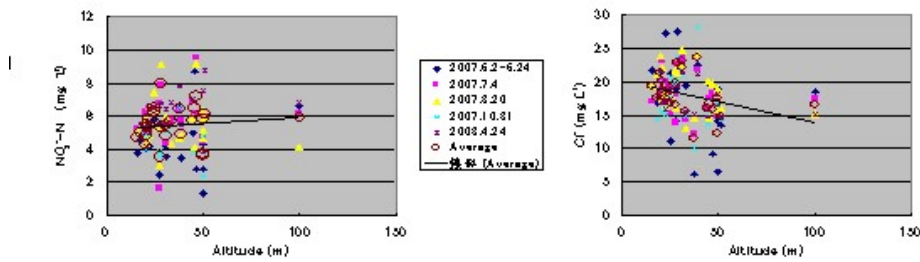


Fig.1  $\text{NO}_3^-$ -N and  $\text{Cl}^-$  concentrations of shallow groundwater in Takamatsu plane in Kagawa