

Numerical Simulation of the relationship between water quality and the catch of sand-eel in Seto-Inland-Sea

*Masami Abe¹, Kyoko Hata¹, Tateki Fujiwara¹

1.IDEA Consultants, Inc.

In Seto-Inland-Sea, the catch decrease of sand-eel is viewed with suspicion.

In Harima-Nada, there is relationships between water quality (DIN) and the catch of sand-eel.

It is considered there are some any relationships between nutrient load from a continental area and fish catches.

Here, material cycle of nutrients, phytoplankton, zooplankton and sand-eel were calculated by used of the numerical simulation model.

Keywords: ecosystem model, Osaka-Bay, *Ammodytes personatus*, Plankton-eating fish, nutrient reduction