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Effects of submarine groundwater discharge on coastal fishery production: emphasizing on fish community

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Biotic and abiotic surveys were conducted at four sites in Japan, where submarine groundwater discharge has been confirmed. In order to evaluate the contribution of nutritional input from the terrestrial ecosystems to production of fishery resources in coastal areas, sampling for fish and their prey organisms were conducted. Number of fish species, fish abundance and biomass were compared between areas of different levels of Radon concentration at each site.

Keywords: coast, water-food NEXUS, Fishery resources, biodiversity, submarine ground water, biological production