Evaluation of submarine groundwater discharge in a ria coast at the eastern Kyushu island using Rn isotopes

Hiroyuki Nishimura[1], Shusaku Otake[2], Kazuyoshi Miyamura[2], *Ryo Sugimoto[1]

1. Faculty of Marine Biosciences, Fukui Prefectural University, 2. Oita Prefectural Agriculture, Forestry and Fisheries Research Center

Ria coast is thought to have a high potential for groundwater discahrge adn related nutrient fluxes from land to coastal sea due to a topgraphic property. However, there is little knowledge about submarine groundwater discharge in ria coast in Japan. In this study, we have evaluated the rate of submarine groundwater discahrge and associated nutrient fluzes in the small coastal embayment along the ria coast at the eastern Kyusyu uinsg ^{222}Rn.

Keywords: Submarine groundwater discharge, Ria coast, 222Rn

