

## **I** Difference of $^{137}\text{Cs}$ concentration between sex of marine fishes

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Monitoring on the artificial radionuclides concentrations of marine organisms in coastal waters of Japan has been conducted since 1984 as a part of the marine environmental radioactive monitoring program sponsored by the Science and Technology Agency of Japan. The variations of  $^{137}\text{Cs}$  concentration in marine organisms and the factors affecting the variations have been investigated. Concentration of  $^{137}\text{Cs}$  in marine fishes varied by species, sex, size, and food habits. In this presentation, we demonstrate the difference of  $^{137}\text{Cs}$  concentrations by sex in rockfish and flounder together with the difference of stable Cs and stable nitrogen isotope ratio ( $\delta^{15}\text{N}$ ) in these fishes, and we discuss the possible factors affecting sexual difference of  $^{137}\text{Cs}$  concentrations in marine fishes.