

## The effect of cold and warm seasons to accumulation nickel, cadmium and lead in muscle of *Argyrosomus hololepidotus* and *Rachycentron canadum* from the Oman Sea (Chabahar Bay)

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### Abstract

This study was done for measuring concentration of heavy metals nickel, cadmium and lead in the muscle of *Argyrosomus hololepidotus* and *Rachycentron canadum* from the Oman Sea (Chabahar Bay) in spring, summer and fall, 2013. In this study, 48 samples of fish were prepared of coastal and marine from Oman Sea (Chabahar Bay). Metals were extracted from the tissues using wet digestion method and concentration of heavy metals measured by Atomic Absorption Spectrophotometer Younglin AAS8020. Concentration of Cd, Pb and Ni in the two fish from coastal zone was higher than marine area. Concentration of heavy metals in the muscle of *Argyrosomus hololepidotus* and *Rachycentron canadum* in summer was higher than spring and fall. Concentration of Ni in the two fish was higher than Cd and Pb. Concentration of Cd, Pb and Ni in the muscle of *Argyrosomus hololepidotus* from coastal and marine zone in spring, summer and fall was higher than *Rachycentron Canadum*. Concentration of Cd and Pb was lower than comparison of FAO, WHO, UKMAFF, NHMRC and FDA, but concentration of Ni was higher than comparison of Global Standards.

**Keywords:** Heavy metals, *Argyrosomus hololepidotus*, *Rachycentron canadum*, Chabahar, Oman Sea.