

Trace element studies in marine organisms

by

P. STROHAL

Institute « R. Bošković », Zagreb (Yugoslavia)

Summary*

The elementary composition of marine biota is not well known. In order to obtain these data necessary for radiochemical, radioecological and physiological studies, these investigations were carried out in this laboratory for last years.

The method employed was very sensitive neutron activation analysis while induced radioactivities were identified and measured by a Li-Ge semiconductor detector coupled to a multichannel analyser.

Concentration and distribution of many elements such as rubidium, cesium, strontium, zinc, cobalt, iron, scandium, lanthanum, cerium and thorium were investigated in a number of samples. Special care was paid to development of methods necessary to search for heavy metal concentration and their distribution in marine organisms. For this reason methods for determination of stable mercury, ruthenium and thorium were investigated and concentrations of these elements in marine organisms measured.

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