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PAPER TITLE

Radioactive Contamination of the Adriatic
Marine Organisms by Fission Products

AUTHOR(S) NAME(S)

Zdenko FRANIC, Gordana MAROVIC and Nevenka LOKOBAUER

SUBMITTING AUTHOR

LAST NAME	FRANIC	FIRST NAME	Zdenko	TITLE	Dr
AFFILIATION	Institute for Medical Research and Occupational Health		TEL	++385-1-434188	
STREET	Ksaverska cesta 2		FAX	++385-1-274572	
CODE	HR-10000	CITY	Zagreb	COUNTRY	CROATIA

PRESENTING AUTHOR (IF DIFFERENT)

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ABSTRACT (See instructions overleaf)

The fallout resulting from the atmospheric nuclear weapon tests represented the dominant route of the radioactive contamination of the Adriatic sea, until 1986 Chernobyl nuclear accident. For the post-Chernobyl period ^{137}Cs and ^{134}Cs were found to be major sea-water and therefore marine organisms' contaminants, while ^{90}Sr activity levels were not affected.

For the post-Chernobyl period transfer of radiocaesium from fallout to sea water and finally to marine organisms' was studied. A simple mathematical model was used to describe decrease in radiocaesium activity in marine organisms. Turnover time for radiocaesium in various marine species was calculated to be approximately two years.