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Project Report

Plutonium Isotopes Concentration in Se along the Algerian Coast

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Abstract

The International Atomic Energy Agency has organised in the collaboration with "Commissariat à l'Energie Atomique" (COME l'Aménagement du Littoral" (ISMAL), during August 2001, a scien the research vessel M.S. Benyahia of ISMAL is. Three stations, at five seawater samples for each water column reaching a maximu sampler of a volume of 250 litres. After recording the mai conductivity), seawater samples were conditioned and preconcenti in the form of MnO2 in order to proceed to plutonium extraction by coprecipitation using neodymium fluoride (NdF3) by vacuum f spectrometry. Concentration results in units of $\mu Bq/l$ of plutonium 25.5 ± 3.70 for P239+240u and 0.21 ± 0.04 to 0.77 ± 0.15 for P238 was studied and the concentration was estimated. The obtained r other authors in the same Mediterranean area.

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