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Project Report

Distribution of Natural Radioactivity, 13 and Plutonium Isotopes in a Water Colu Sediment Core along the Algerian Coast

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Abstract

Concentrations of natural (^{40}K, ^{210}Pb, uranium, and thorium $^{239+240}$Pu) were determined in seawater and sediment samples Seawater was collected from the surface to a maximum depth of depth of around 1500 m. This work was carried out in August project /7/004 (RAF), by the accomplishment of an oceanographi Energy Agency (IAEA) in collaboration with Commissariat à l'Energ de la Mer et de L'Amenagement du Littoral (ISMAL), on board of addition to the record of the conductivity (mS) and temperature treated and preconcentrated on board, those of sediment cores we analyses in the laboratory of radiological impact studies of Algiers. ^{90}Sr in mBq/L and $^{239+240}$Pu in μBq/L in seawater, and also for na in the layers of the sediment cores. The different profiles of ^{137}Cs, depth were presented to show artificial radioactivity distribu Concentrations of ^{137}Cs in the sediment core were also used to ide

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