



## Radiometric Survey of Vromos Bay, Black Sea

*Yanko Ivanov<sup>1</sup>, Atanas Kisyov<sup>1</sup>, Christian Tzankov<sup>1</sup>*

<sup>1</sup>University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria, ianko@mail.bg

<sup>1</sup>University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria, at.kisyov@gmail.com

<sup>1</sup>University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria, ch.tzankov@gmail.com

### **Abstract**

Vromos Bay on the Black Sea was contaminated with heavy sulfidic ore minerals and radionuclides from the flotation factory of the copper mine Rosen between 1954-1977. Vromos beach went through recultivation after the closure of the mine in 1998, the deep sediments covering the bottom of the bay however remained there. The goal of the survey is to evaluate the current radioactivity state of the bay and the potential environmental risk that it poses.