Abstract No : 390

Geography, geology, geomorphology, sedimentology;

Impact Of Environmental Stress On The Metabolism Of A Bioindicator Of

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Algeria has a large coastline that lies at the heart of the Mediterranean, it is of great ecological importance in terms of biodiversity, but it is characterized by a high concentration of the population. The city of Skikda is one of the examples of pollution in the country, the various units of the petrochemical complex located on the coast are a real danger to the environment that is daily exposed to significant releases of toxic chemicals, which threatens the quality the marine environment. Our goal is to assess the impact of pollution in coastal north-eastern Algeria on a keystone species of benthic communities Perinereis cultrifera and changes in biochemical contents in proteins, carbohydrates, and lipids were determined monthly in oocytes females sampled at two study sites Skikda (polluted site) and El-Kala (preserved healthy site, away from any source of pollution). The monthly variation in energy reserves levels is similar for both populations although concentrations were found lower in females sampled from Skikda, and this could possibly be due to intrinsic physiological response following resistance contaminants in the environment.