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Orientation: Ocean Observation and Global Change

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Research Line: 1.9 Impact on Biogeochemical Cycles

PhD project: Platinum and other Technology-Critical Elements: Bioaccumulation and Behaviour in Coastal Systems

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FOTO RELACIONADA CON EL PROYECTO



Summary: This thesis attempts to improve the understanding of the biogeochemical cycle of Pt and TCEs and to describe the impact of human activities on these trace elements. The ecosystems are currently changing due to global change, especially in coastal regions. We hope that the conclusions reached in this thesis can contribute to a better management of the risks that elevated concentrations of these elements may have for human health and the environment.

This thesis work addresses a profound study on the bioaccumulation and behaviour of Technology-Critical Elements (TCEs), with special emphasis on the Platinum Group Elements (PGEs), and primarily platinum. We have focused this work on the marine environment, with studies on sediments and biota. Besides, we have developed an intensive bibliographic work with the aim of compile previous work on the accumulation of these metals on natural environmental compartments