

ANNUAL REPORT ON GEOTRACES ACTIVITIES IN COLOMBIA

May 1st, 2021 to April 30th, 2022

New GEOTRACES or GEOTRACES relevant scientific results

- Technical report to environmental authorities about:
 - Parameters as total cadmium, cobalt, chromium, copper, iron, manganese, nickel, lead, vanadium, zinc and mercury, to support a technical concept of the possible effects that the "Restoration Project of the degraded ecosystems of the dike channel" would produce on the ecosystems of mangroves, seagrasses and coral reefs in the coastal marine area between Boca Cerrada and the mouth of Caño Correa.
 - Parameters as total mercury, lead, cadmium, chromium, copper, zinc, iron, manganese, gamma-emitting radioactive isotopes of the ^{238}U chain, topics of interest to support the sustainable development of the offshore hydrocarbon sector.
 - Parameters as lead, cadmium, chromium, copper, nickel, zinc in suspended particulate material, sediments and organisms, in "Monitoring of environmental conditions and structural and functional changes in plant communities and fisheries resources during the rehabilitation of Ciénaga Grande de Santa Marta, an important coastal lake in the Colombian Caribbean".

GEOTRACES or GEOTRACES relevant cruises

- Cruise in an off-shore exploration block in the Colombian Caribbean where water and sediment samples were taken to measure key parameters such as micronutrients essential to life in the ocean and other related with anthropogenic pollution.
- Environmental assessment of the underwater hills and lomas of the north Pacific basin.
- Declaration of the Marine Protected Area – cordillera Submarina Beata as a landscape restoration strategy in the Colombian Caribbean 2022.

New projects and/or funding

- Regional Cooperation Project with International Atomic Energy Agency "Strengthening regional capabilities of Latin America and the Caribbean in the use and application of nuclear and isotopic techniques to increase knowledge about stressors that affect coastal zones and to contribute to the sustainable management of marine resources".
- Regional Cooperation Project with International Atomic Energy Agency "Evaluating the Impact of Heavy Metals and Other Pollutants on Soils Contaminated by Anthropogenic Activities and Natural Origin".

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