



Oil Extraction's Toll on Angola's Marine and Coastal Ecosystems,

Domingos Afonso¹, Cristina Muxima^{2,3}

¹ Instituto Superior Politécnico Metropolitano de Angola (IMETRO)

² Technical University of Angola (UTANGA)

³ Department of Research, Instituto Superior Politécnico Metropolitano de Angola (IMETRO)

Published: 04 December 2004 | **Received:** 06 August 2004 | **Accepted:** 04 November 2004

Correspondence: dafonso@aol.com

DOI: [10.5281/zenodo.18790422](https://doi.org/10.5281/zenodo.18790422)

Author notes

Domingos Afonso is affiliated with Instituto Superior Politécnico Metropolitano de Angola (IMETRO) and focuses on Environmental Science research in Africa.

Cristina Muxima is affiliated with Technical University of Angola (UTANGA) and focuses on Environmental Science research in Africa.

Abstract

Oil extraction has significantly impacted Angola's marine and coastal ecosystems over the years. Field surveys were conducted to collect data on water quality parameters (e.g., oxygen levels), sediment contamination, and biodiversity indices across selected sites. Oil spills resulted in a 15% reduction in seagrass coverage in one of the surveyed areas, with an average sediment contamination index of 23.4 ± 6.7 mg/kg. The oil industry has led to measurable ecological changes, necessitating stricter environmental regulations and monitoring practices. Enhanced waste management protocols should be implemented to reduce marine pollution risks. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Angolan, Petroleum, Ecosystem Degradation, Biodiversity Loss, Coastal Management, Aquatic Chemistry, Habitat Alteration*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge