



The Role of Deep-Sea Biodiversity in Oceanic Carbon Sequestration: Insights from Recent Explorations

Alfredo Laura*

Laboratoire de Microbiologie Biotechnologie du Département, Université d'Antananarivo, France

Abstract

Deep-sea ecosystems play a crucial yet often overlooked role in global carbon sequestration. Recent explorations have provided new insights into how deep-sea biodiversity contributes to the ocean's capacity to store carbon, impacting carbon sequestration, including the biological pump, the role of sedimentary processes, and the impact of species storage of carbon in the deep ocean and assess the implications of these processes for climate change mitigation. The article concludes with recommendations for future research and conservation strategies to protect deep-sea biodiversity and enhance its role in carbon sequestration.

***Corresponding author:** Alfredo Laura, Laboratoire de Microbiologie Biotechnologie du Département, Université d'Antananarivo France, E-mail: lauraalfredo7623@yahoo.com

Received: 01-July-2024, Manuscript No: jmsrd-24-143628, **Editor Assigned:** 04-July-2024, pre QC No: jmsrd-24-143628 (PQ), **Reviewed:** 18-July-2024, QC No: jmsrd-24-143628, **Revised:** 22-July-2024, Manuscript No jmsrd-24-143628 (R), **Published:** 30-July-2024, DOI: 10.4172/2155-9910.1000465

Citation: Alfredo L (2024) The Role of Deep-Sea Biodiversity in Oceanic Carbon Sequestration: Insights from Recent Explorations. J Marine Sci Res Dev 14: 465.

Copyright:

