

4th International Conference on

Oceanography & Marine Biology

July 18-19, 2016 Brisbane, Australia

Study on Deep Water Warming Trend and Ocean Contaminated State Restoration in the Bay of Bengal : The Implementation of Site Remediating Environmental Modeling

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The article is written based on the introspection of taking required measures of the world's one of the biggest oceans garbage problem which is one of the largest environmental challenges mankind faces today. This paper is not only will represent the remediating aspects of coastal zones by discussing how the cleanup array can contribute to cleaner waters and coastal zones, but it will also disclose how simultaneously will it be an essential step towards our goal of establishing the argument on consideration table highlighting how the deployment will enable to study the system's efficiency and durability over time. The Environmental Modeling will disclose the present haphazardness and difficulties and its adverse consequences on coastal areas and associated lives. Moreover, this paper will propose the deep-water warming trend in the Bay of Bengal showing exponential deterioration over the past six decades and how the temperature of the deep water below 300 m has increased by $\sim 0.9^{\circ}\text{C}$. The warming trend is due mainly to the reduction of cold-water deep convection over this period, which is associated with milder winters in the region. Despite deep-water warming, density stratification is maintained at depths below 100 m. The observed warming trend is interrupted at least twice by abyssal cooling events that are associated with the wettest years on record. This paper will propose that rainfall and cool river inflow are critical factors that control thermal structure and the rate of deep-water recharge in this deep, tropical zone. This paper will focus on recorded case studies and will address the recommended measures with the association of government and non government organizations that can be effective.

Biography

Nomana Intekhab Hadi is a PhD student from University of California at Berkeley.

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